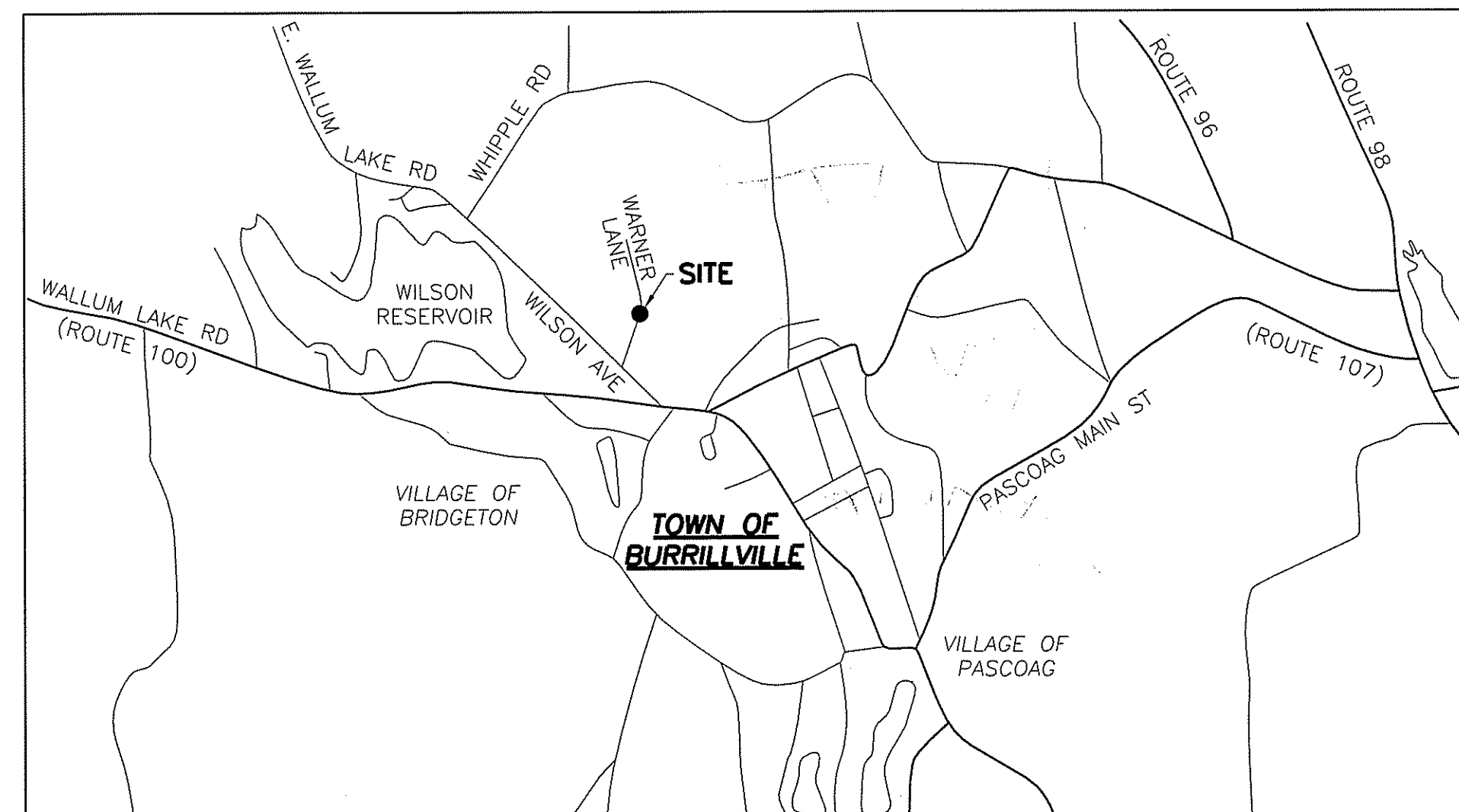


THE TOWN OF BURRILLVILLE, RHODE ISLAND  
 BRIDGE REPLACEMENT  
 WARNER LANE OVER CLEAR RIVER



LOCATION MAP

1" = 2000'

SCALES - AS NOTED  
 LENGTH OF PROJECT = 304.56 FEET

**SHEET INDEX**

SHEET NO.	DESCRIPTION
1	---- TITLE SHEET & INDEX
2	---- CONSTRUCTION PLAN
3	---- TYPICAL SECTION & DETAILS
4	---- PROFILE
5	---- GENERAL PLAN
6	---- BORING LOGS
7	---- DEMOLITION PLAN
8	---- LAYOUT & FRAMING PLAN
9	---- STAGE CONSTRUCTION PLAN
10-11	---- SUBSTRUCTURE DETAILS
12-13	---- BEAM DETAILS
14	---- RAIL DETAILS
15-17	---- CROSS SECTIONS

REVISED  
 JAN 25 2010

Kindly be advised that this  
 Permit is not equivalent to a  
 verification of the type or extent  
 of freshwater wetlands on site.

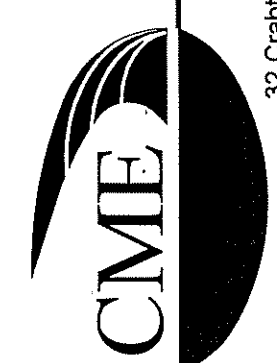
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED FEB 12 2010 FILE # 09-0062  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Conroy*

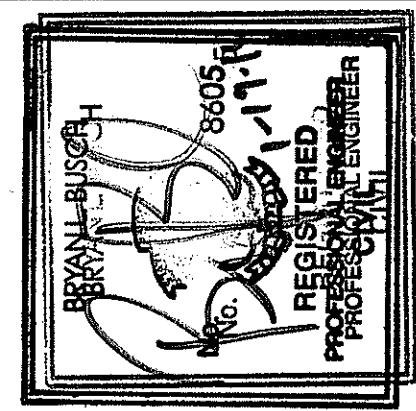
QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

NOT RELEASED FOR CONSTRUCTION

CME Associates, Inc.



32 Crabtree Lane, Woodstock, CT 06281  
 110 Broadway, Norwich, CT 06360  
 333 East River Drive, East Hartford, CT 06108  
 50 Elm Street, Southbridge, MA 01550  
 Phone 888-291-3227  
 www.cmeengineering.com



TOWN OF BURRILLVILLE, RI  
 DEPARTMENT OF PUBLIC WORKS  
 WARNER LANE OVER CLEAR RIVER  
 BURRILLVILLE, RI  
 COVER

JOB DATA		REVISIONS	
PROJECT	BOOK NO.	NO.	DESCRIPTION
2006372			
DESIGNED	SRA		
DRAWN	SRA/RAC		
CHECKED	MPC		
COGO FILE			
FILE			

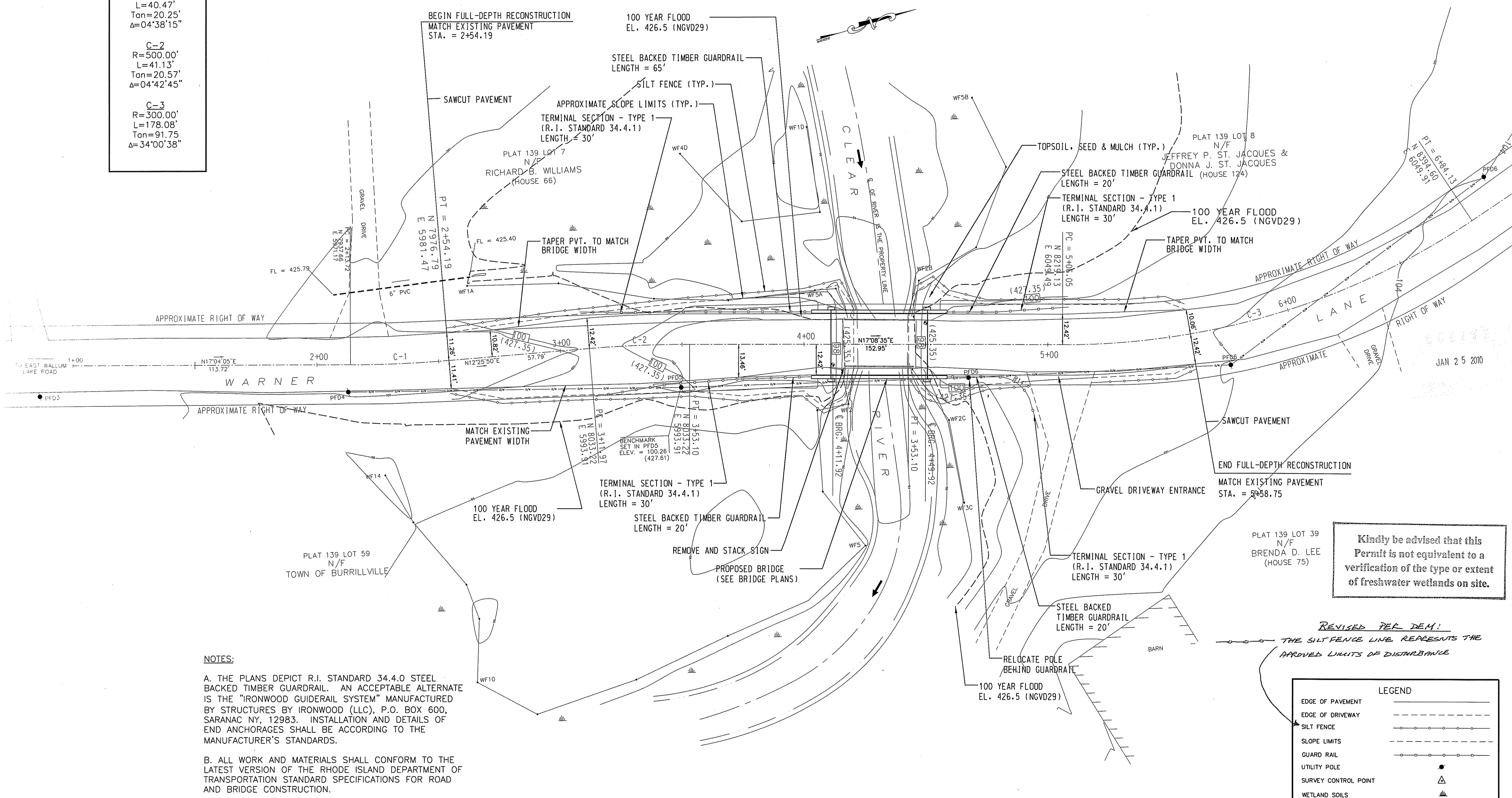
DATE: DEC. 10, 2009  
 SCALE: AS NOTED  
 PROJECT #: 2006372

**CURVE DATA**

**C-1**  
R=500.00'  
L=40.47'  
Tan=20.25'  
Δ=04°38'15"

**C-2**  
R=500.00'  
L=41.13'  
Tan=20.57'  
Δ=04°42'45"

**C-3**  
R=300.00'  
L=178.08'  
Tan=91.75'  
Δ=34°00'38"



**NOTES:**

A. THE PLANS DEPICT R.I. STANDARD 34.4.0 STEEL BACKED TIMBER GUARDRAIL. AN ACCEPTABLE ALTERNATE IS THE "IRONWOOD GUIDERAIL SYSTEM" MANUFACTURED BY STRUCTURES BY IRONWOOD (LLC), P.O. BOX 600, SARANAC NY, 12983. INSTALLATION AND DETAILS OF END ANCHORAGES SHALL BE ACCORDING TO THE MANUFACTURER'S STANDARDS.

B. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST VERSION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

C. ORIGINAL SURVEY BASED ON ASSUMED DATUM. ELEVATIONS SHOWN IN PARENTHESIS ARE ELEVATIONS CORRESPONDING TO NGVD '29 AS DETERMINED BY FIELD SURVEY. SURVEY PREPARED BY CME ASSOCIATES, INC.

D. FLOODPLAIN ELEVATIONS ON THE PLANS DEPICT AN ELEVATION OF 426.5 (NGVD29) BASED ON THE FEMA FLOOD INSURANCE STUDY FOR PROVIDENCE COUNTY RHODE ISLAND EFFECTIVE 3/2/09 (STUDY #44007CV001A). THE 100 YEAR FLOOD ELEVATION WAS CONVERTED FROM THE FLOOD STUDY DATUM (NAVD88) TO THE DATUM USED ON THE PLAN SET (NGVD29) USING A LOCAL CONVERSION FACTOR OF NGVD29 = 0.75'+NAVD88.

**QUALITY CONTROL CERTIFICATION**

GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

REVISED PER DEM:  
THE SILT FENCE LINE REPRESENTS THE APPROVED LIMITS OF DISTURBANCE

**LEGEND**

EDGE OF PAVEMENT	———
EDGE OF DRIVEWAY	- - - - -
SILT FENCE	—○—○—○—
SLOPE LIMITS	-·-·-·-
GUARD RAIL	— — — —
UTILITY POLE	●
SURVEY CONTROL POINT	△
WETLAND SOILS	▨

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-2062  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Casey*

NOT RELEASED FOR CONSTRUCTION

**CME Associates, Inc.**  
32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06350  
333 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01550  
Phone 866-291-3227  
www.cmeengineering.com

**TOWN OF BURRILLVILLE, RI**  
DEPARTMENT OF PUBLIC WORKS  
WARNER LANE OVER CLEAR RIVER  
BURRILLVILLE, RI

**CONSTRUCTION PLAN**

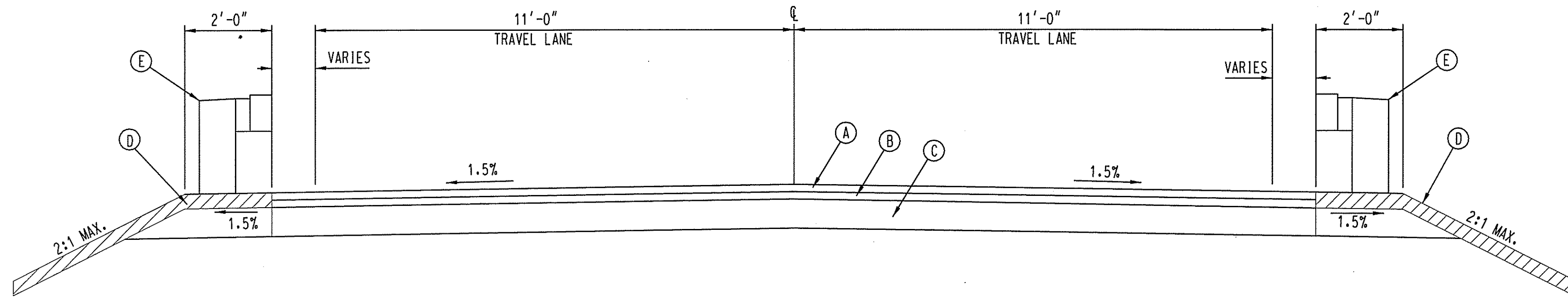
JAN 25 2010

JOB DATA		REVISIONS	
PROJECT	DATE	NO.	DESCRIPTION
2006372			

PROJECT	DESIGNED	DRAWN	CHECKED	COORD. FILE	FILE
	SRA	SRA/RAC	MPC		Loyalt.dgn

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

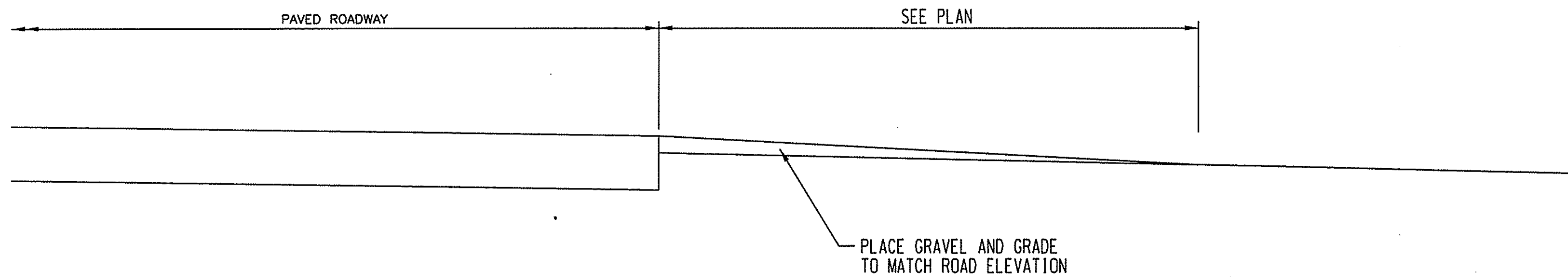
SHEET 2 OF 17



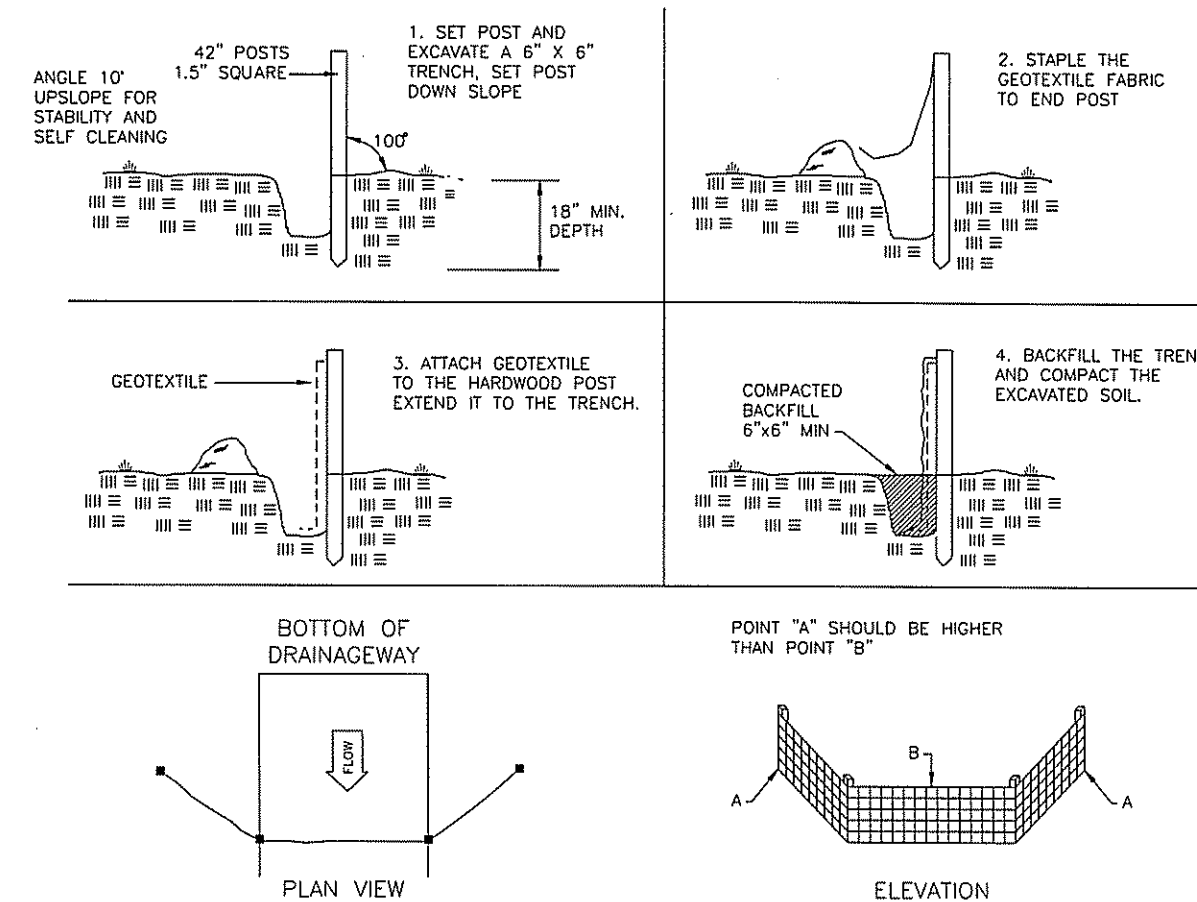
TYPICAL SECTION  
WARNER LANE  
N.T.S.

LEGEND

- Ⓐ 2" BITUMINOUS SURFACE COURSE, TYPE CLASS 1-1
- Ⓑ 2" BITUMINOUS BASE COURSE
- Ⓒ 8" GRAVEL BORROW SUBBASE COURSE
- Ⓓ 4" LOAM BORROW AND RESIDENTIAL SEED MIX (TYPE 2) WITH ADHESIVE MULCH STABILIZER
- Ⓔ STEEL BACKED TIMBER GUARDRAIL (R.I. STANDARD 34.4.0) SEE NOTE A.



GRAVEL DRIVEWAY ENTRANCE  
N.T.S.



PLACEMENT AND CONSTRUCTION OF A GEOTEXTILE SILT FENCE (GSF)  
NOT TO SCALE

INSTALLATION & MAINTENANCE

1. Dig a 6" trench on the uphill side of the barrier location.
  2. Position the posts on the downhill side of the barrier and drive the post 1.5 feet into the ground.
  3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
  4. Inspect the silt fence at least once a week (preferably twice) and after rainfall events of 0.5" or greater.
  5. Remove sediment when deposits reach approximately 1/2 the height of the fence. Sediment shall be deposited in an area which is not regulated by the Inland Wetlands Commission.
  6. Replace or repair within 24-hours of observed failure.
- Failure may include:
- Overlapping, undercutting or bypassed by runoff water
  - Fence has been moved or knocked over.
  - The geotextile has decomposed or has been damaged.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0002  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Casey*

RECEIVED  
JAN 25 2010

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

CME Associates, Inc.  
CME  
32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06560  
30 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01550  
Phone: 888-291-3227  
www.cmeengineering.com

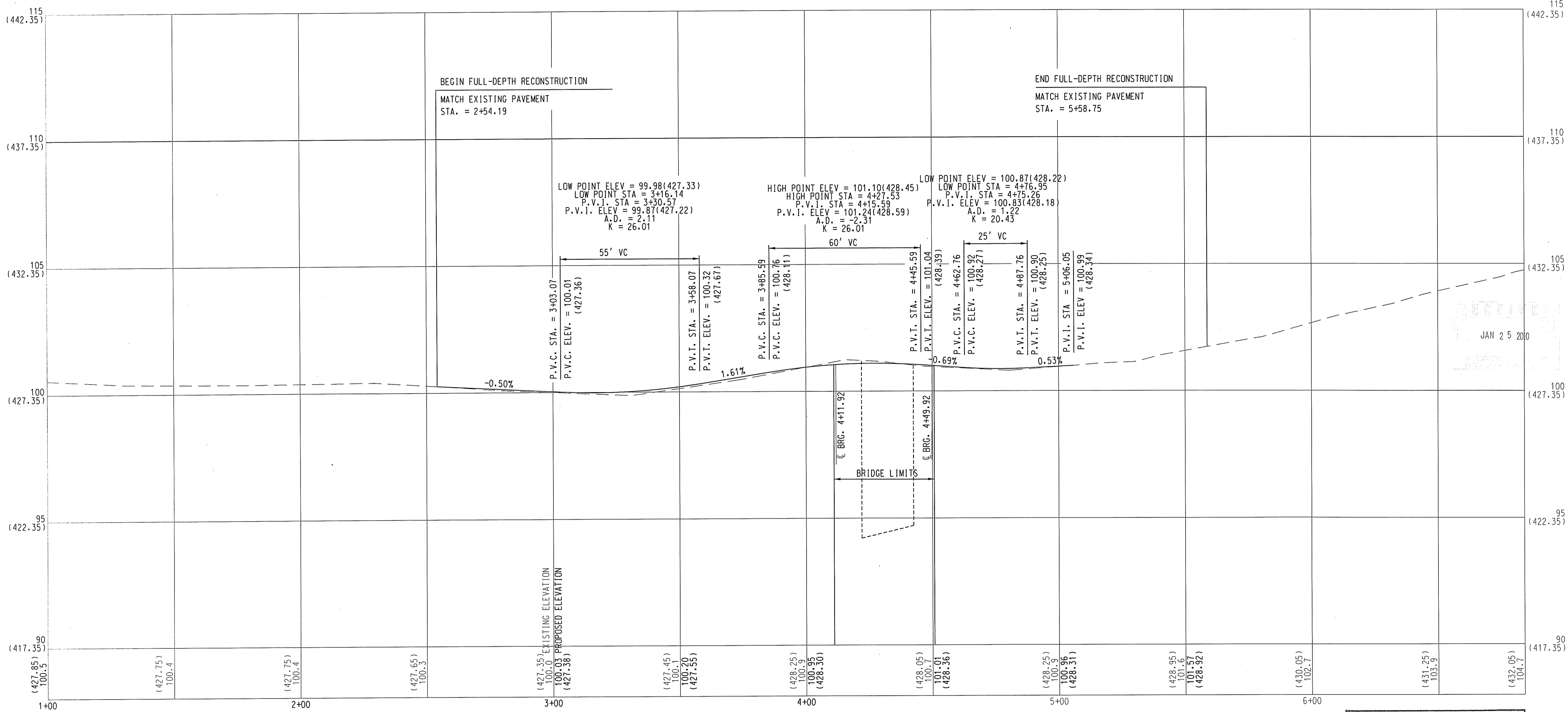
BRVANT BUSH  
8605  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL

TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
WARNER LANE OVER CLEAR RIVER  
BURRILLVILLE, RI  
TYPICAL SECTION / DETAILS

REVISIONS		JOB DATA	
NO.	DATE	PROJECT NO.	DESCRIPTION
		2006372	
		DESIGNED	SRA
		DRAWN	SRA/RAC
		CHECKED	MPC
		COORD FILE	
		FILE	Layout.dgn

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

NOT RELEASED FOR CONSTRUCTION



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

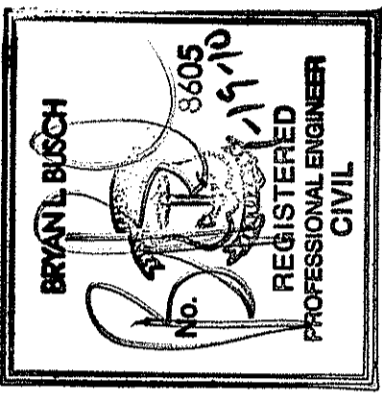
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED FEB 12 2010 FILE # 08-2002  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Casey*

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL CIVIL		
STRUCTURAL		
ARCHITECTURAL		

NOTE:  
 1. ORIGINAL SURVEY BASED ON ASSUMED DATUM.  
 ELEVATIONS SHOWN IN PARENTHESIS ARE ELEVATIONS CORRESPONDING TO NGVD '29.

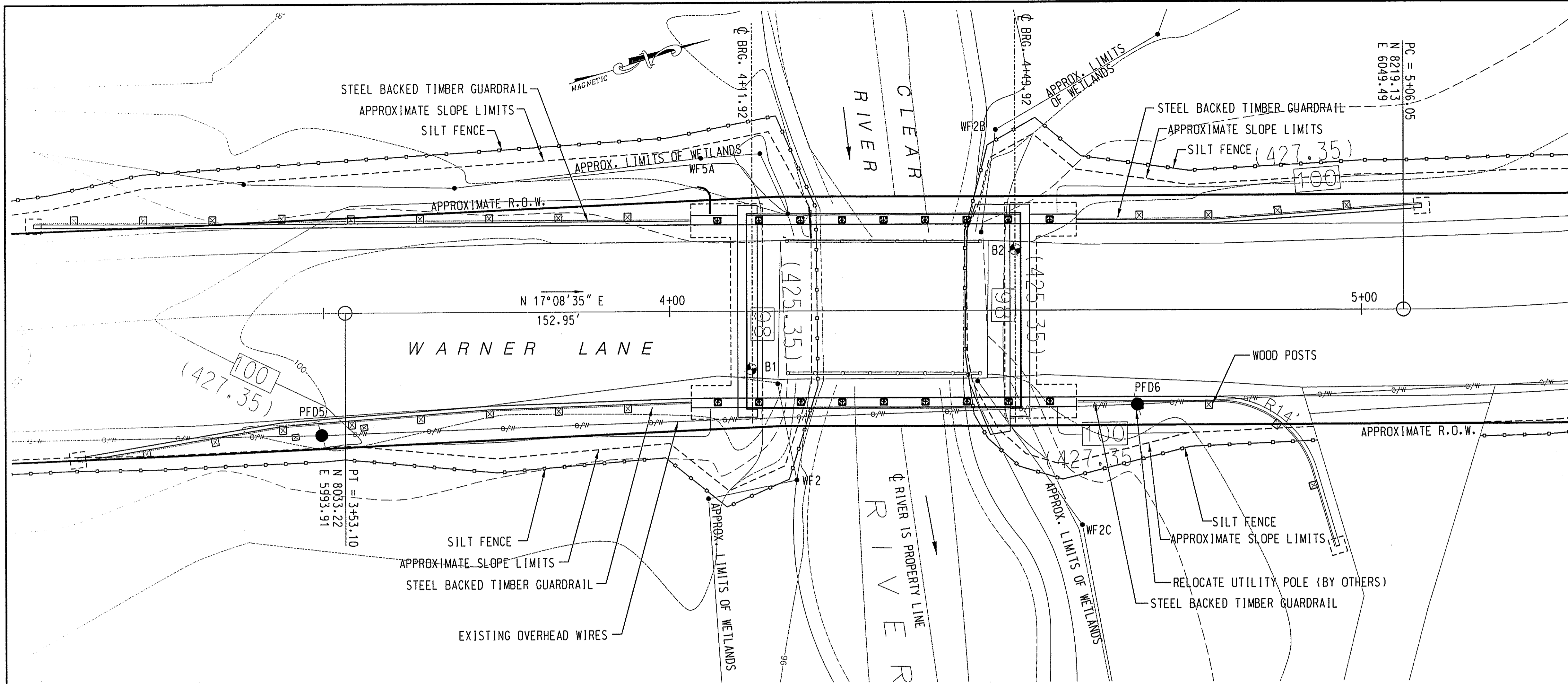
NOT RELEASED FOR CONSTRUCTION



TOWN OF BURRILLVILLE, RI  
 DEPARTMENT OF PUBLIC WORKS  
 WARNER LANE OVER CLEAR RIVER  
 BURRILLVILLE, RI  
 ROADWAY PROFILE

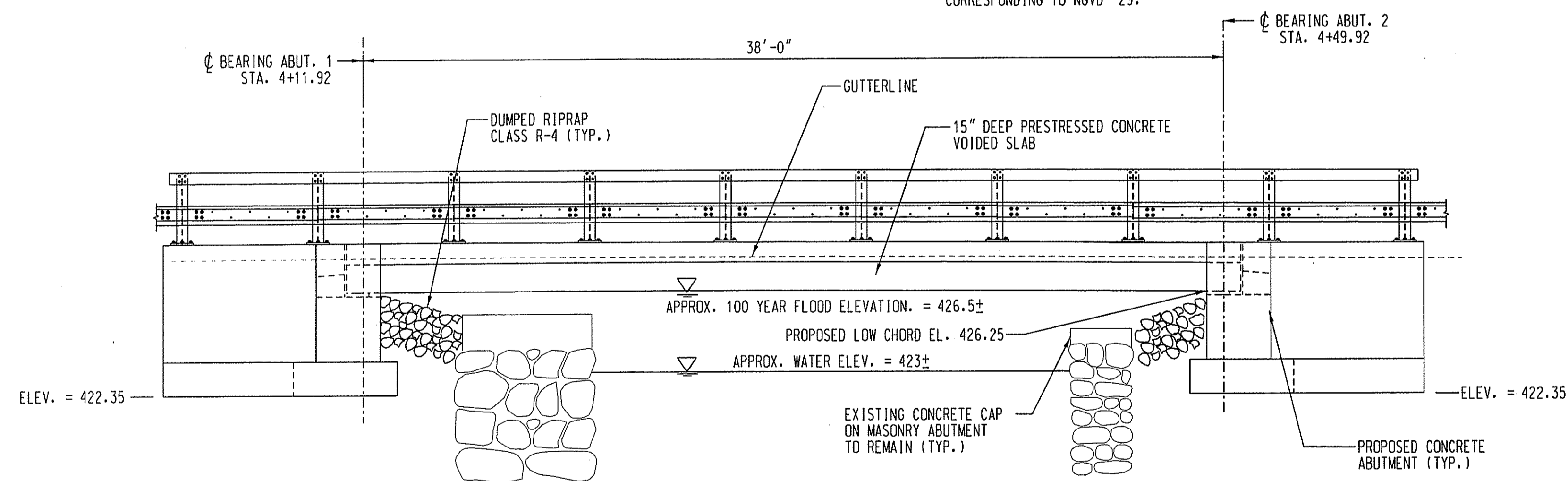
REVISIONS		JOB DATA	
NO.	DATE	PROJECT	DESCRIPTION
		2006372	
		DESIGNED	SRA
		DRAWN	SRA/RAC
		CHECKED	MPC
		COORD FILE	
		FILE	

DATE: DEC. 10, 2009  
 SCALE: AS NOTED  
 PROJECT #: 2006372

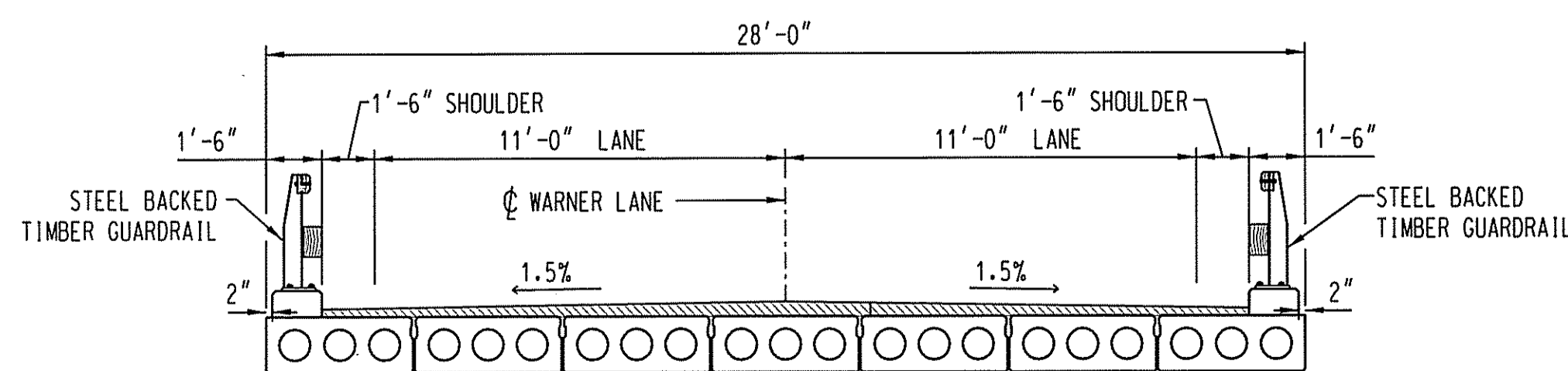


**GENERAL PLAN**  
SCALE: 1" = 10'

NOTE: ORIGINAL SURVEY BASED ON AN ASSUMED DATUM.  
ELEVATIONS SHOWN IN PARENTHESES ARE ELEVATIONS  
CORRESPONDING TO NGVD '29.



**PROPOSED SECTION**  
SCALE: 1/4" = 1'-0"



**PROPOSED TRANSVERSE SECTION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

SPECIFICATIONS: RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION,  
1997 EDITION.

DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY  
AND BRIDGES (AASHTO 2002), WITH THE INTERIM  
SPECIFICATIONS UP TO AND INCLUDING 2003.

ALLOWABLE DESIGN STRESSES:  
CLASS XX (AE) CONCRETE BASED ON  $f'c=4000$  psi  
AASHTO ASTM A615 GRADE 60 REINFORCEMENT BASED ON  $fy=60,000$  psi

LIVE LOAD: HS-20

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF 2  
LAYERS. THE FIRST SHALL CONSIST OF BRIDGE BINDER  
(VARYING THICKNESS) AND THE SECOND SHALL BE BITUMINOUS  
SURFACE COURSE CLASS 1-1 (1 1/2" THICKNESS).

CONCRETE: ALL CONCRETE SHALL CONFORM TO RHODE ISLAND CLASS  
XX (AE).

DIMENSIONS: ALL DIMENSIONS SHOWN ON THE PLANS ARE IN FEET  
AND INCHES. ALL ELEVATIONS ARE GIVEN IN FEET.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE  
SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY  
HAVE BEEN TAKEN FROM FIELD SURVEY AND ARE NOT GUARANTEED.  
THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY  
TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME  
FULL RESPONSIBILITY FOR THEIR ACCURACY.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE EPOXY COATED.

GUARDRAIL: THE PLAN DEPICTS R.1. STANDARD 34.4.0 STEEL  
BACKED TIMBER GUARDRAIL. AN ACCEPTABLE ALTERNATE IS THE  
"IRONWOOD GUIDERAIL SYSTEM" MANUFACTURED BY STRUCTURES OF  
IRONWOOD (LLC), P.O. BOX 600, SARANAC LAKE NY, 12983.  
DETAILS OF RAILING ATTACHMENT TO PARAPET SHOULD BE  
ADJUSTED TO BE CONSISTENT WITH THIS RAIL SYSTEM INCLUDING  
THE SIZE AND LOCATION OF THE BLOCKOUT AND THE LOCATION OF  
ANCHOR BOLTS.

DUMPED RIPRAP: CLASS R-4 DUMPED RIPRAP SHALL BE PLACED  
BETWEEN THE EXISTING AND PROPOSED ABUTMENTS. IT SHALL  
BE USED UNDER THE PROPOSED STRUCTURE AND IN THE  
IMMEDIATE VICINITY OF THE SUBSTRUCTURE TO PREVENT  
GRADING WITHIN THE REGULATED AREAS.

RECEIVED  
JAN 25 2010

Kindly be advised that this  
Permit is not equivalent to a  
verification of the type or extent  
of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
FILE # 09-0062  
DATED FEB 12 2010  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Carey*

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

CME Associates, Inc.  
CME  
32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06360  
333 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01560  
Phone 888-291-3227  
www.cmeengineering.com

BRAND CLAUSEN  
REG. NO. 5605  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL

TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
BURRILLVILLE, RI  
WARNER LANE OVER CLEAR RIVER  
GENERAL PLAN

JOB DATA		REVISIONS	
PROJECT	2006372	NO.	DESCRIPTION
DESIGNED	SRA		
DRAWN	SRA/RIC		
CHECKED	MPC		
COORD FILE			
FILE	gerson		
DATE:	DEC. 10, 2009		
SCALE:	AS NOTED		
PROJECT #:	2006372		
SHEET	5 OF 17		

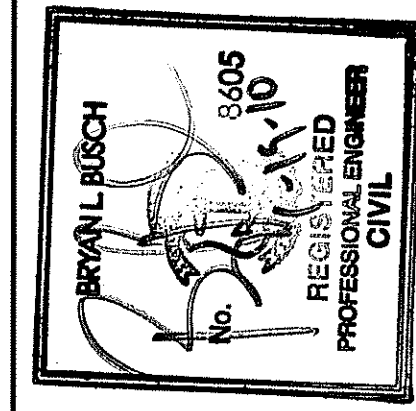
NOT RELEASED FOR CONSTRUCTION

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT				PROJECT NAME WARNER LANE BRIDGE LOCATION BURRILLVILLE, RI			
CME ASSOCIATES, INC.				SURFACE ELEV.				HOLE NO. B-1			
TYPE		AUGER	CASING	SAMPLER	CORE BAR	OFFSET	LINE & STA.		GROUND WATER OBSERVATIONS		START DATE
SIZE I.D.		3.75'		SS	NX	8.33 RT	4+11.77		AT 6.0 FT. AFTER 0 HOURS		1/12/07
HAMMER WT.				140lbs			N. COORDINATE		AT FT. AFTER HOURS		FINISH DATE
HAMMER FALL				30'			8126.58				1/15/07
							E. COORDINATE				
							6029.65				
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS						ELEV.
	NO.	BLOWS/6'	DEPTH								
0					DARK BR./BLACK FINE-MED. SAND, SOME GRAVEL & COBBLES, LITTLE SILT - FILL						
					BLACK PEAT, LITTLE SILT & FINE SAND, TRACE ROOTS						4.0
5	1	60	5.00'-5.50'		GREY/BR. FINE-MED. SAND, SOME GRAVEL, LITTLE DECOMPOSED ROCK FRAGMENTS & SILT						5.5
					GREY/BR. FINE-MED. SAND, SOME SILT, LITTLE GRAVEL & DECOMPOSED ROCK FRAGMENTS						15.0
10	2	15-24-23	10.00'-11.50'		CORED BEDROCK - GRANITE GNEISS						19.0
					RUN#1 19.0' -24.0' RECOVERED 45' ROD=65%						
					RUN#2 20.0' -25.0' RECOVERED 50' ROD=58%						
15	3	15-28-19	15.00'-16.50'		CORED BEDROCK - GRANITE GNEISS						15.0
					RUN#1 15.0' -20.0' RECOVERED 58' ROD=63%						
					RUN#2 20.0' -25.0' RECOVERED 60' ROD=93%						
20					BOTTOM OF BORING @ 25.0'						25.0
25											
30											
35											
LEGEND: COL. A: SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%				DRILLER: BROMLEY INSPECTOR:				SHEET 1 OF ?? HOLE NO. B-1			

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT				PROJECT NAME WARNER LANE BRIDGE LOCATION BURRILLVILLE, RI			
CME ASSOCIATES, INC.				SURFACE ELEV.				HOLE NO. B-2			
TYPE		AUGER	CASING	SAMPLER	CORE BAR	OFFSET	LINE & STA.		GROUND WATER OBSERVATIONS		START DATE
SIZE I.D.		3.75'		SS	NX	8.79 LT	4+49.95		AT 5.6 FT. AFTER 0 HOURS		1/12/07
HAMMER WT.				140lbs			N. COORDINATE		AT FT. AFTER HOURS		FINISH DATE
HAMMER FALL				30'			8168.11				1/12/07
							E. COORDINATE				
							6024.55				
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS						ELEV.
	NO.	BLOWS/6'	DEPTH								
0					DARK BR. FINE-MED. SAND, SOME COBBLES & BOULDERS, TRACE SILT - FILL						
					CORED A BOULDER FROM 5.0' TO 7.0' RECOVERED 20"						5.0
5	1	60	5.00'-5.17'		GREY FINE-MED. SAND, SOME GRAVEL, COBBLES & BOULDERS, TRACE SILT - FILL						7.0
					CORED BEDROCK - GRANITE GNEISS						15.0
					RUN#1 15.0' -20.0' RECOVERED 58' ROD=63%						
					RUN#2 20.0' -25.0' RECOVERED 60' ROD=93%						
10	2	1-5-2	10.00'-11.50'		BOTTOM OF BORING @ 25.0'						25.0
15											
20											
25											
30											
35											
LEGEND: COL. A: SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%				DRILLER: BROMLEY INSPECTOR:				SHEET 1 OF ?? HOLE NO. B-2			

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

RECEIVED  
JAN 25 2010



TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
WARNER LANE OVER CLEAR RIVER  
BURRILLVILLE, RI  
BORING LOGS

JOB DATA		REVISIONS	
PROJECT NO.	2006372	NO.	
BOOK NO.		DATE	
DESIGNED	SRA	DESCRIPTION	
DRAWN	SRA/RAC		
CHECKED	MPC		
DATE	DEC. 10, 2009		
SCALE	AS NOTED		
PROJECT #	2006372		

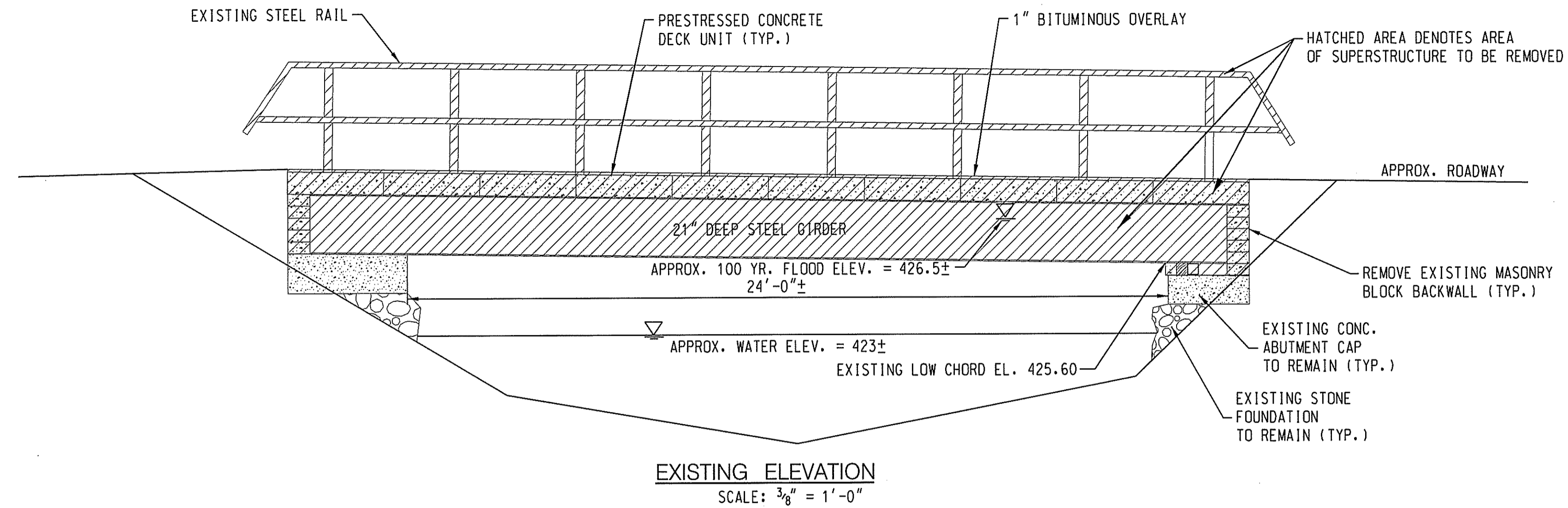
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0662  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*W. Joseph Caray*

NOT RELEASED FOR CONSTRUCTION

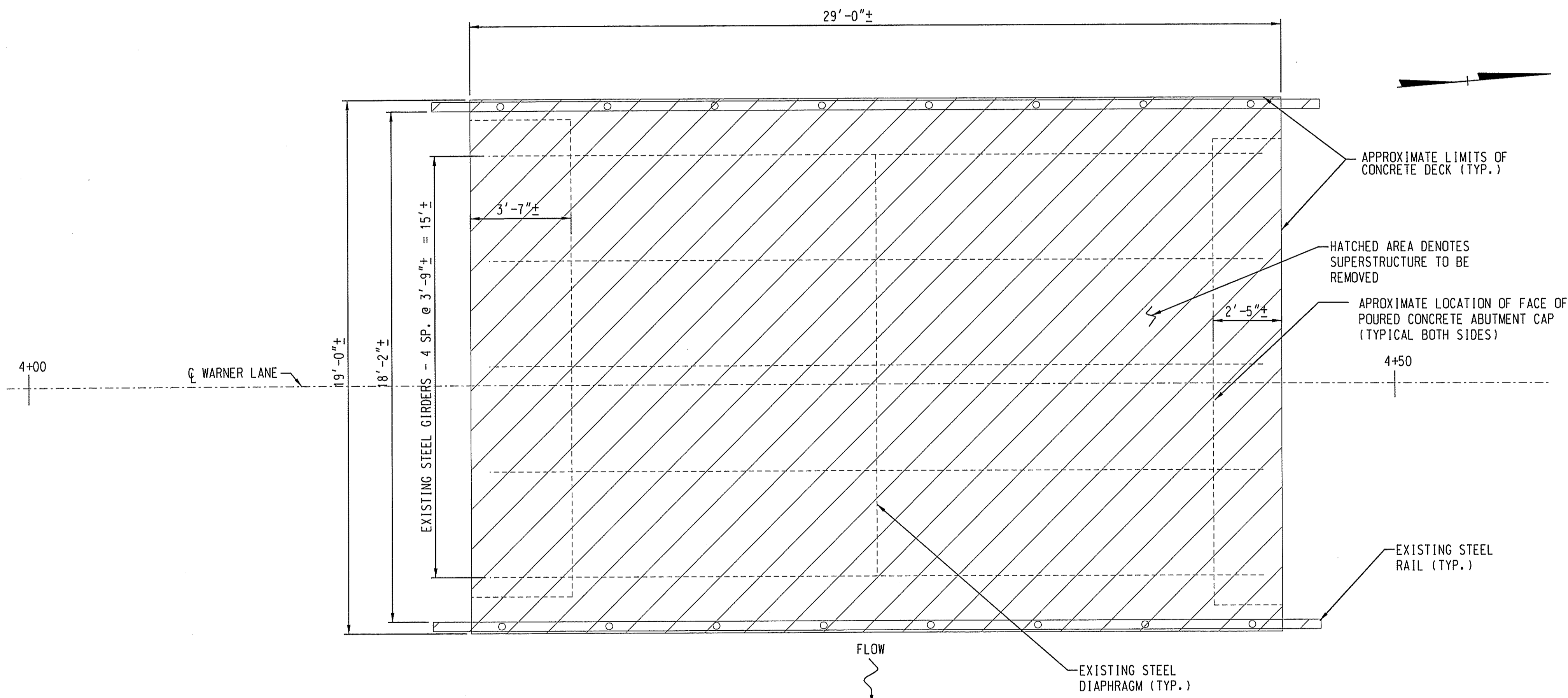
SHEET 6 OF 17

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

CME Associates, Inc.  
32 Crabtree Lane, Woodstock, CT 06281  
119 Broadway, Norwich, CT 06260  
239 Elm Street, Middletown, CT 06450  
50 Elm Street, Southbridge, MA 01550  
Phone 866-291-9227  
www.cmeengineering.com



EXISTING ELEVATION  
SCALE: 3/8" = 1'-0"



EXISTING PLAN VIEW  
SCALE: 3/8" = 1'-0"

NOTE: THE CONTRACTOR SHALL PREPARE AND SUBMIT A PLAN INDICATING THE PROPOSED DEMOLITION PROCEDURES TO BE USED INCLUDING EQUIPMENT, TOOLS, DEVICES, SCHEDULE OF OPERATIONS, AND METHODS OF PREVENTING ANY DEBRIS FROM ENTERING THE CLEAR RIVER TO THE ENGINEER FOR APPROVAL. ANY MATERIAL THAT FALLS INTO THE CLEAR RIVER DURING THE DEMOLITION PROCESS SHALL BE REMOVED IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE. DEMOLITION WORK MAY NOT COMMENCE UNTIL THE ENGINEER HAS PROVIDED WRITTEN APPROVAL.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 10-2006372  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Conway*

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

NOT RELEASED FOR CONSTRUCTION

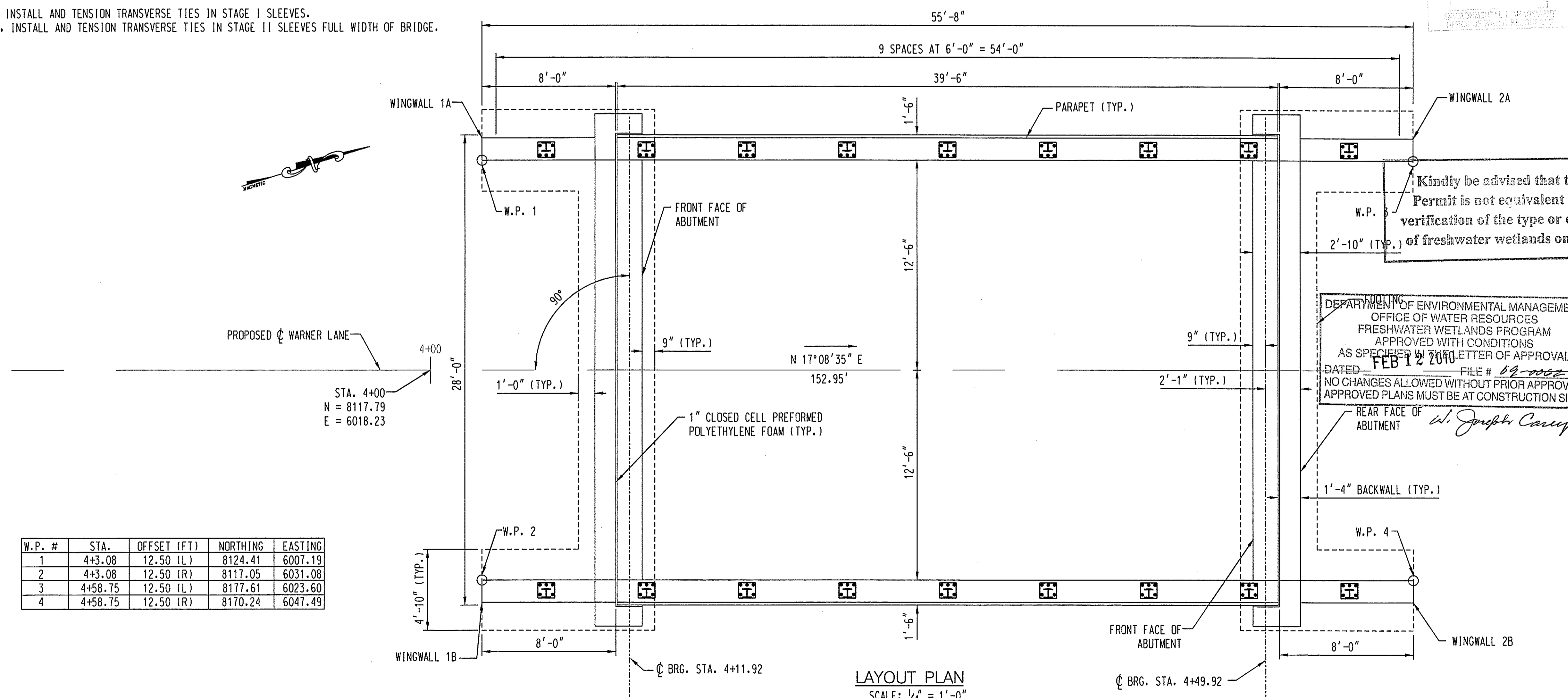
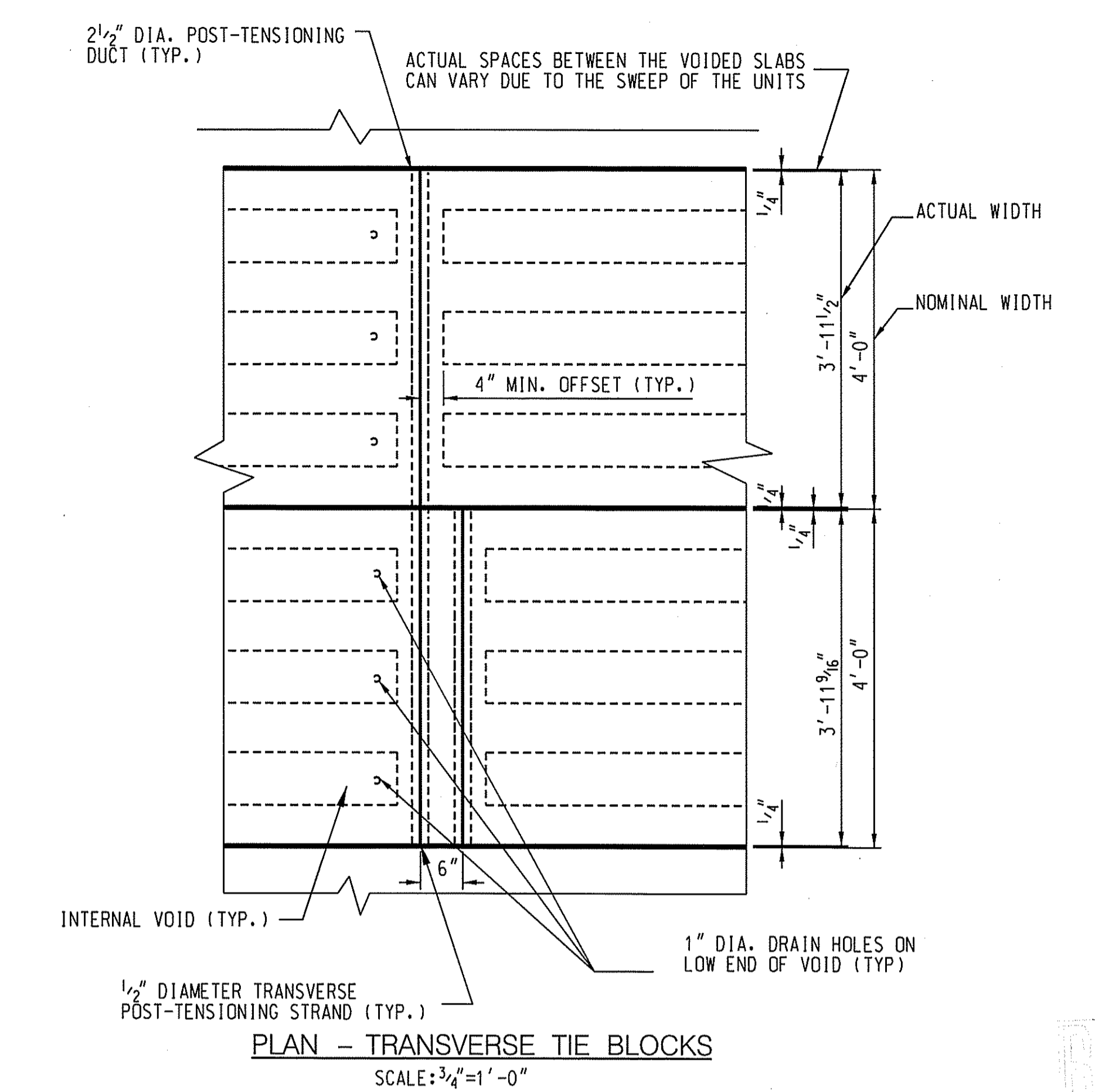
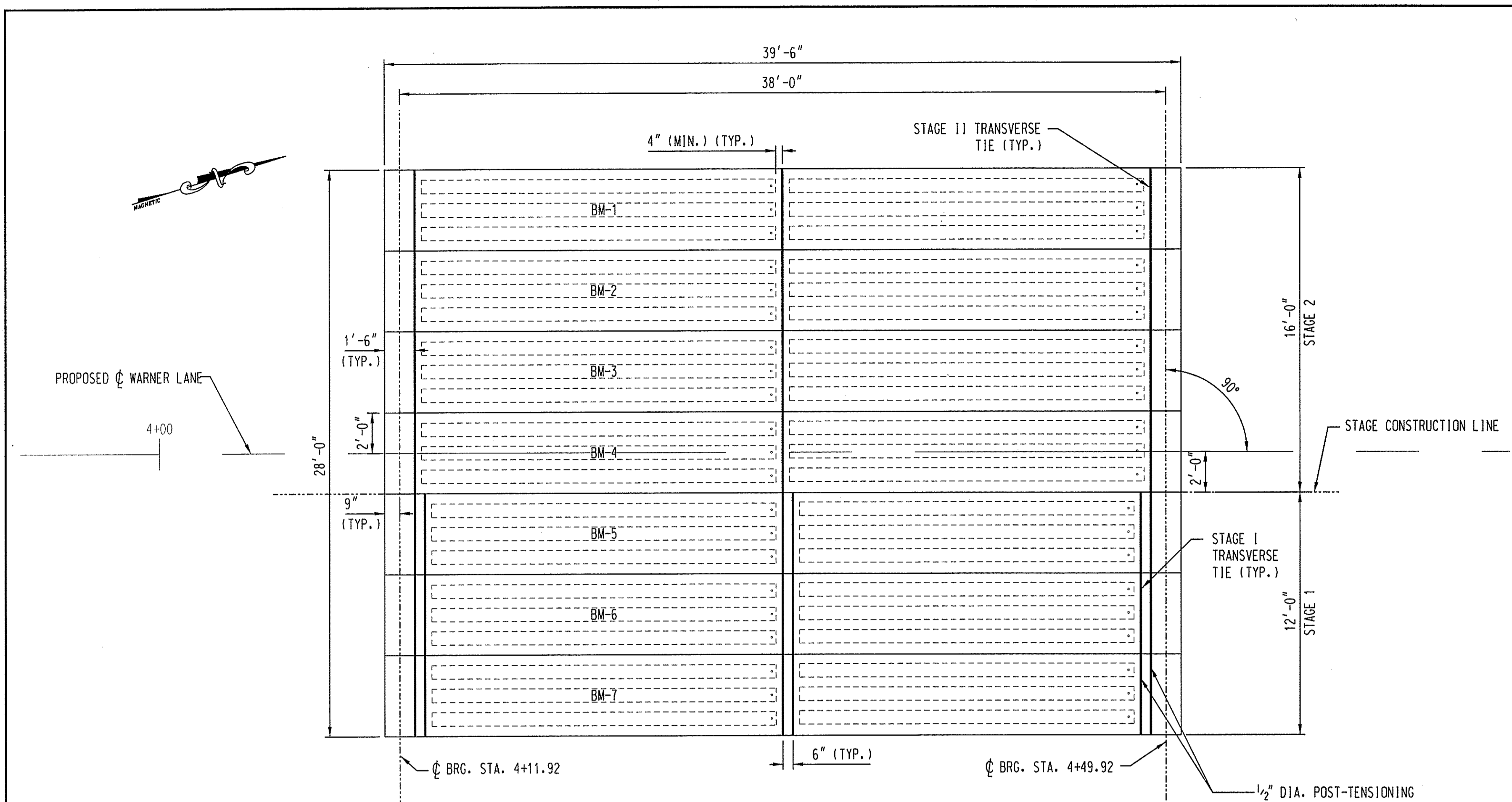
CME Associates, Inc.  
  
 32 Crabtree Lane, Woodstock, CT 06281  
 110 Broadway, Norwich, CT 06260  
 333 East River Drive, East Hartford, CT 06108  
 50 Elm Street, Southbridge, MA 01569  
 Phone: 860-291-3227  
 www.cmeengineering.com

BRAND L. BUSCH  
 3605  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 CIVIL

RECEIVED  
 JAN 25 2010

TOWN OF BURRILLVILLE, RI  
 DEPARTMENT OF PUBLIC WORKS  
 BURRILLVILLE, RI  
 WARNER LANE OVER CLEAR RIVER  
 DEMOLITION PLAN

JOB DATA		REVISIONS	
PROJECT	BOOK NO.	NO.	DESCRIPTION
2006372			
DESIGNED	SRA		
DRAWN	SRA/RAC		
CHECKED	MPC		
DATE	FILE		
DEC. 10, 2009	10-2006372		
SCALE: AS NOTED			
PROJECT #: 2006372			
SHEET 7 OF 17			



W.P. #	STA.	OFFSET (FT)	NORTHING	EASTING
1	4+3.08	12.50 (L)	8124.41	6007.19
2	4+3.08	12.50 (R)	8117.05	6031.08
3	4+58.75	12.50 (L)	8177.61	6023.60
4	4+58.75	12.50 (R)	8170.24	6047.49

RECEIVED  
JAN 25 2010

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0012  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

W. Joseph Casey

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

CME Associates, Inc.  
32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06360  
333 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01550  
Phone 866-291-3227  
www.cmeengineering.com

**BRYAN L. BUSCH**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
No. 11114  
Exp. 12/31/10

TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
BURRILLVILLE, RI  
WARNER LANE OVER CLEAR RIVER  
FRAMING & LAYOUT PLAN

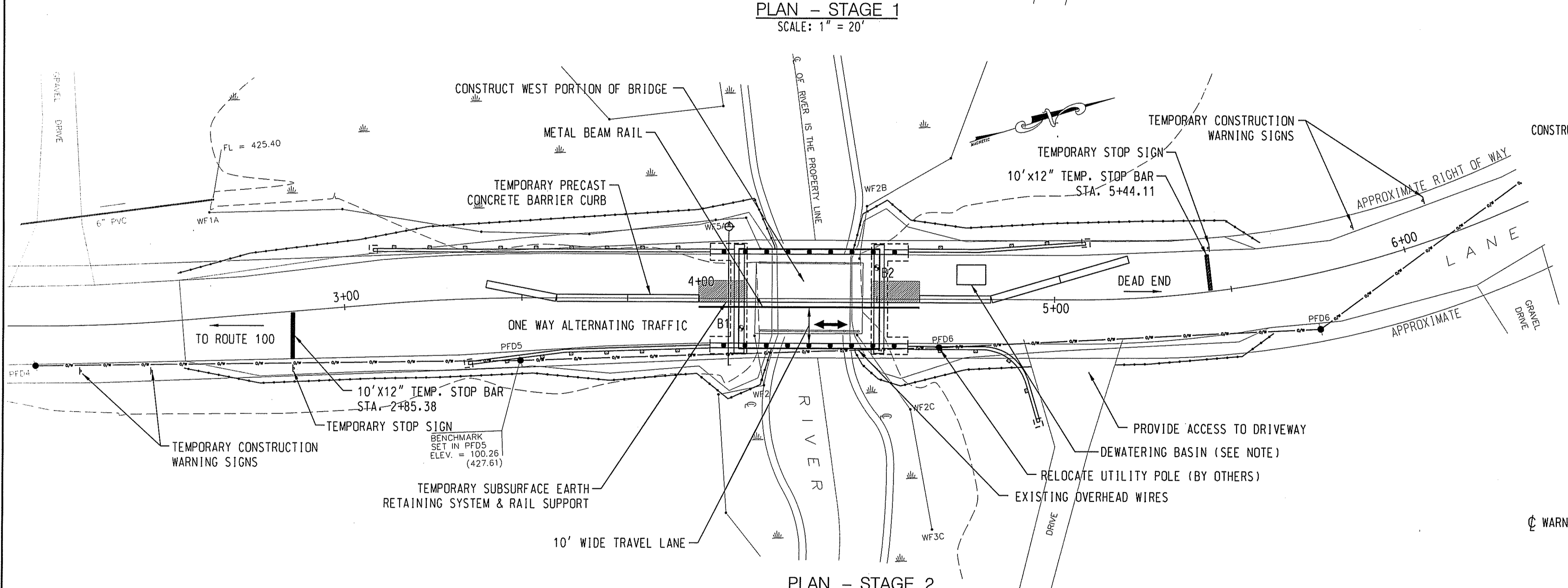
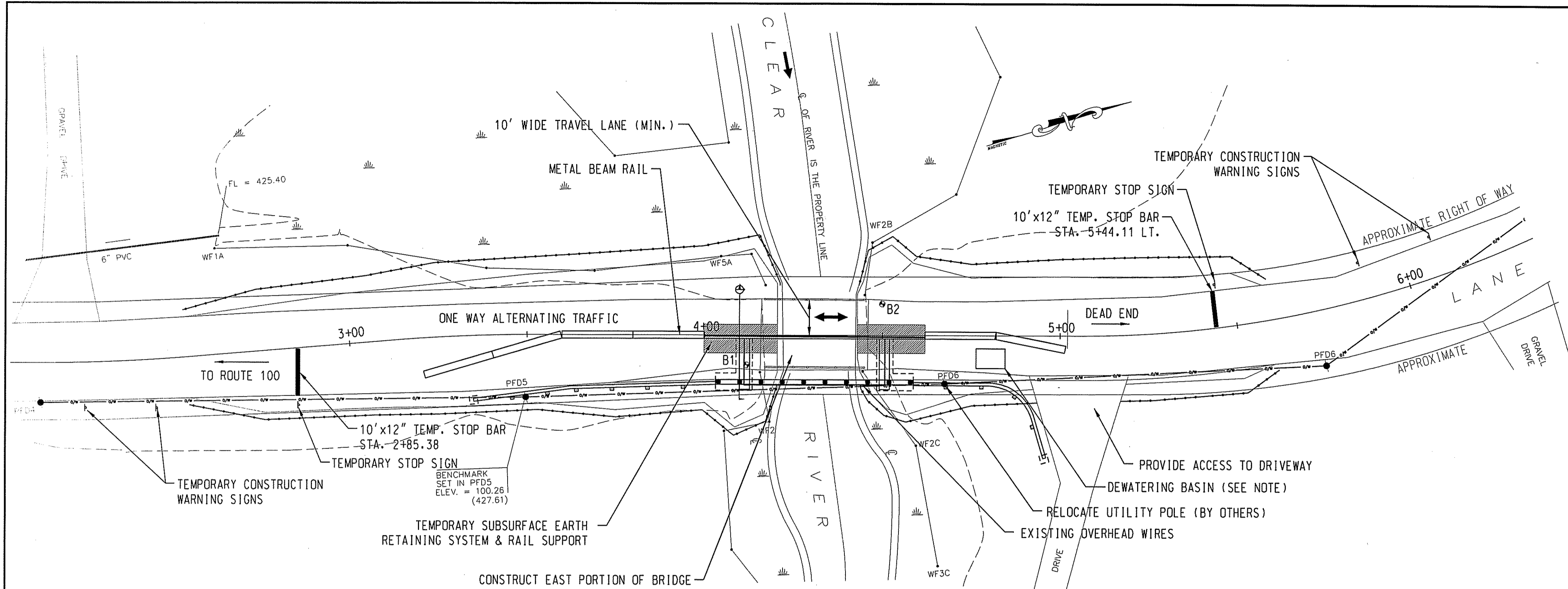
JOB DATA  
PROJECT: 2006372  
BOOK NO.:  
DESIGNED: SRA  
DRAWN: SRA/RAC  
CHECKED: MPC  
CADD FILE:  
FILE: Layout.dgn

REVISIONS  
NO. DATE DESCRIPTION

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

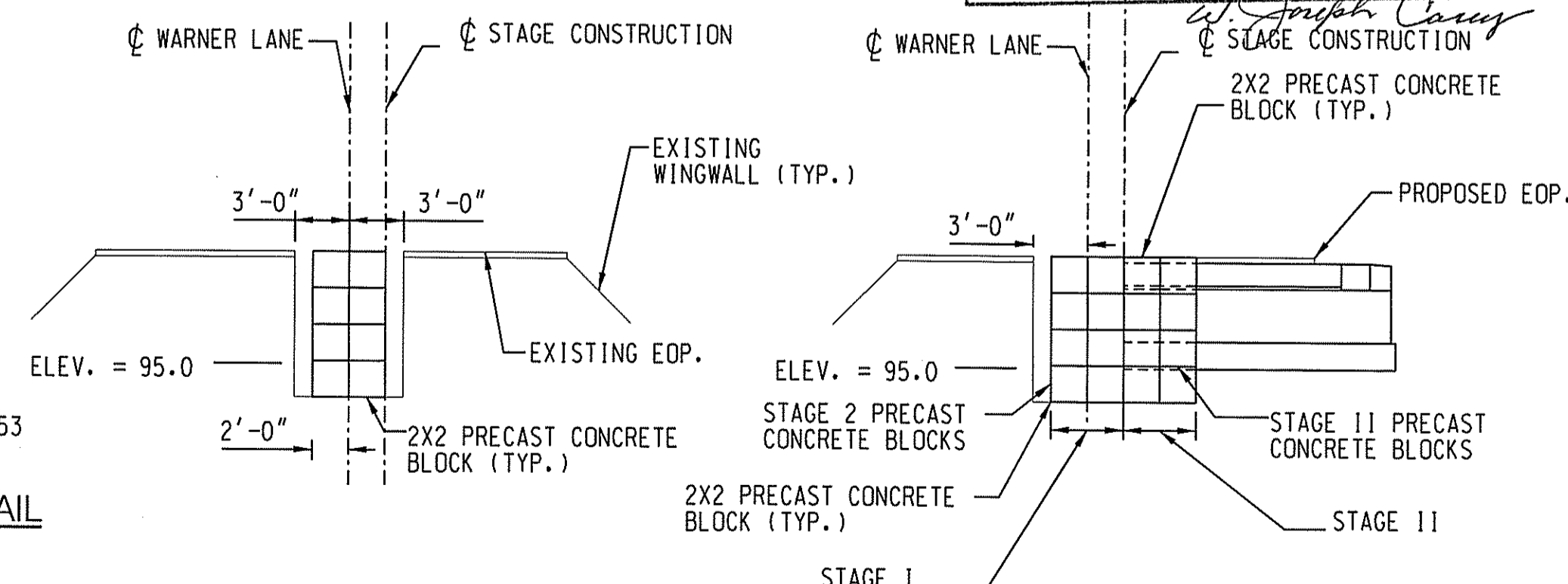
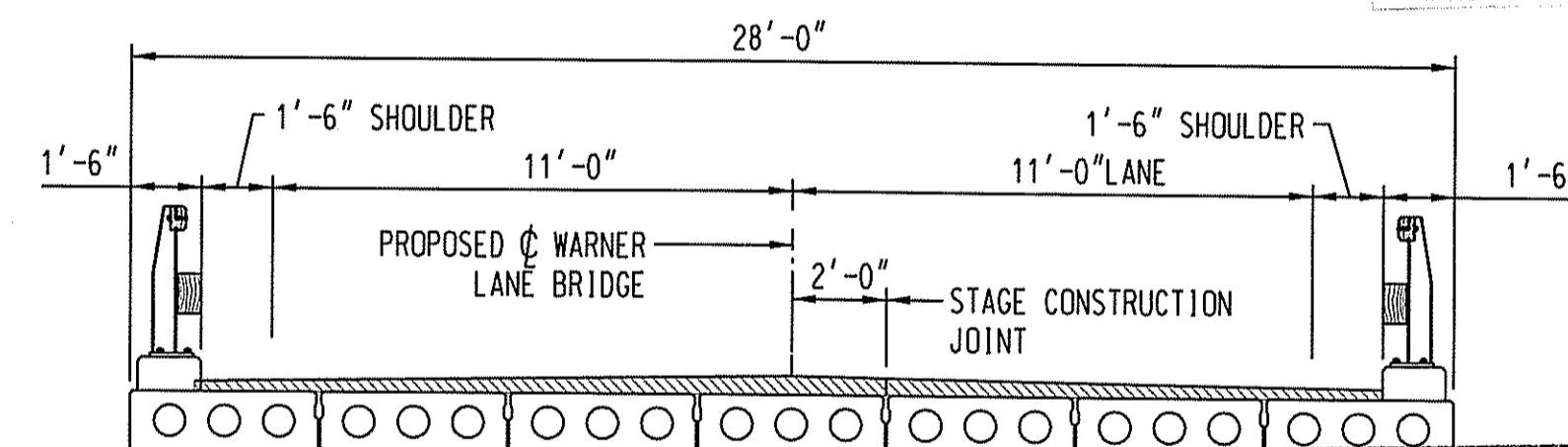
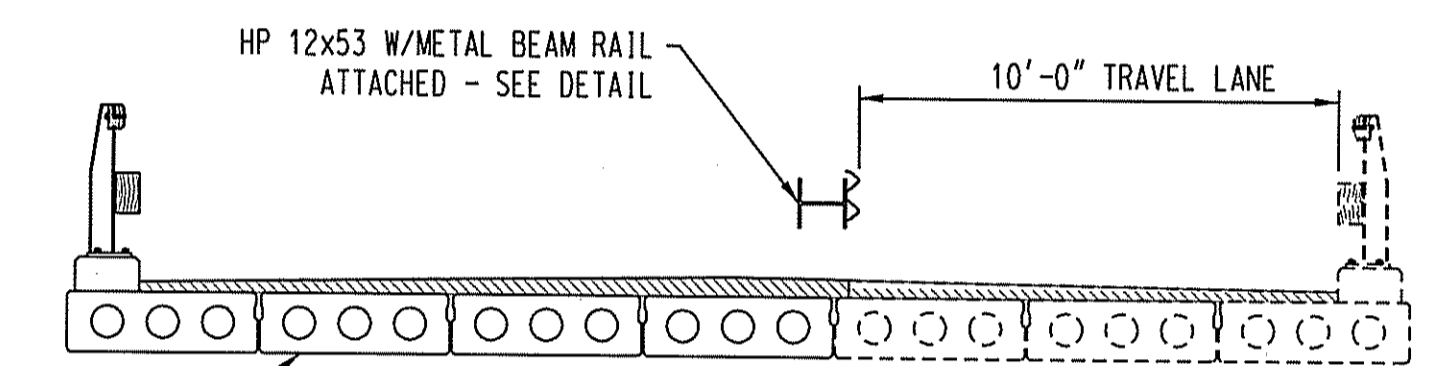
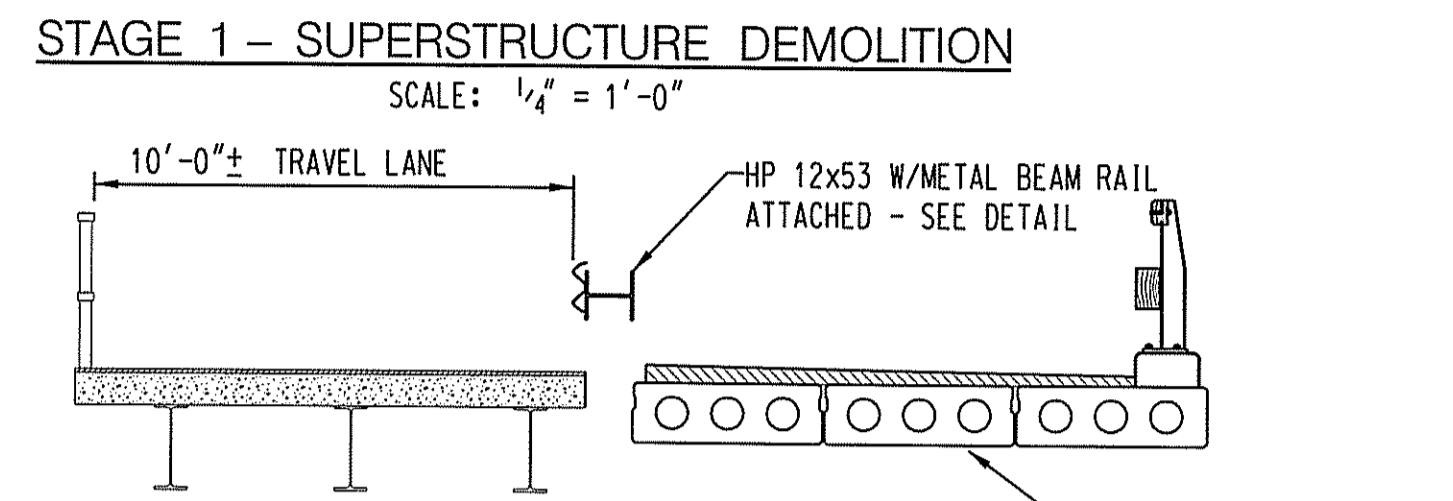
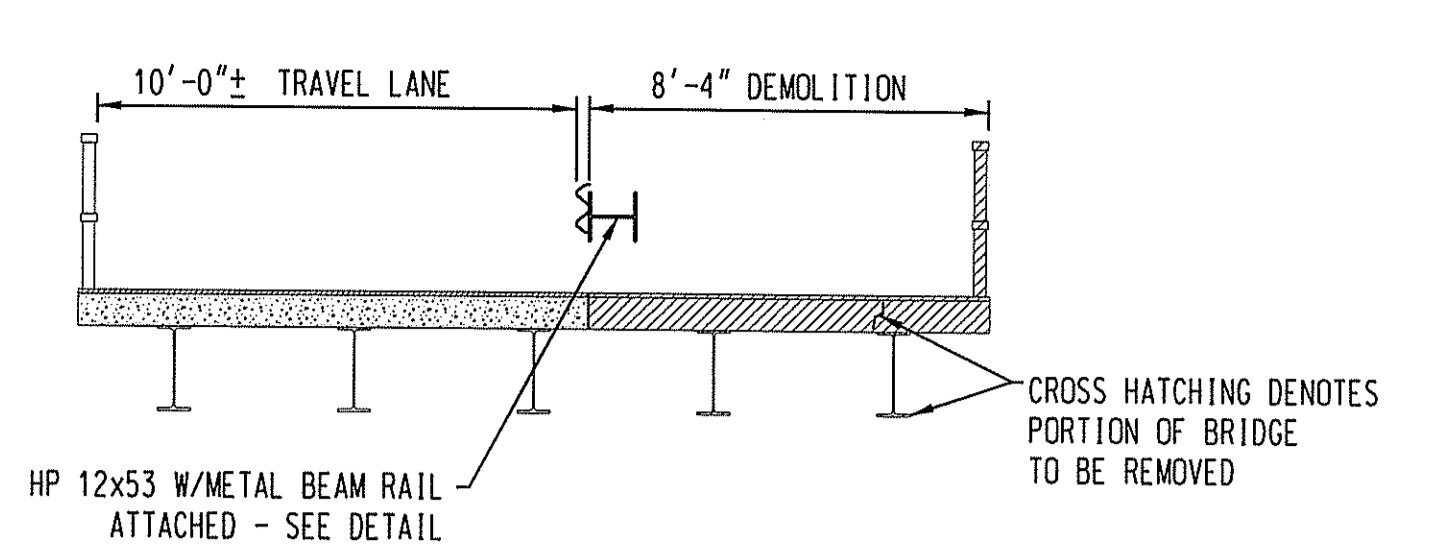
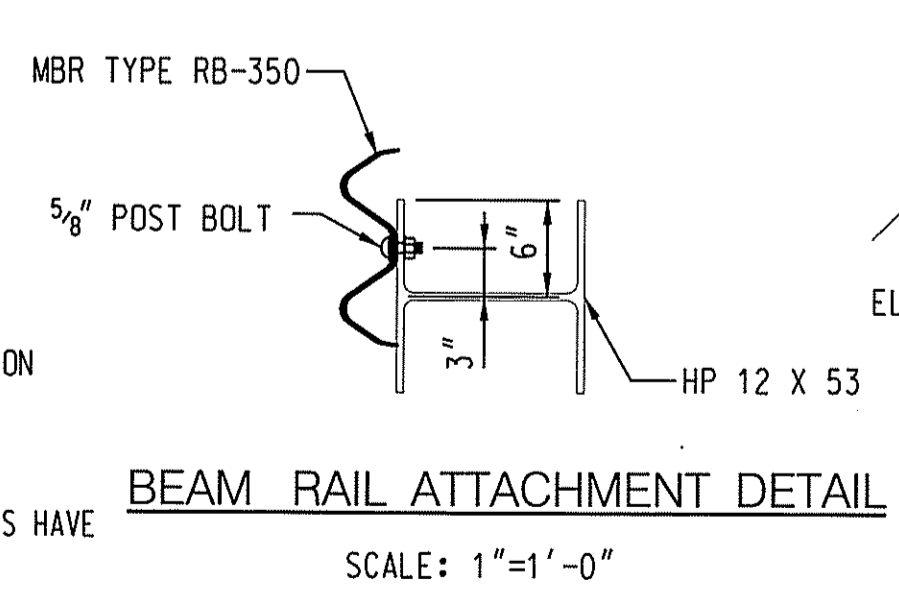
SHEET 8 OF 17

NOT RELEASED FOR CONSTRUCTION



**SEQUENCE OF CONSTRUCTION**

- |  |  |
|--|--|
| <p><b>STAGE 1</b></p> <ol style="list-style-type: none"> <li>1. ESTABLISH EROSION AND SEDIMENTATION CONTROLS AS SHOWN ON CONSTRUCTION PLAN. A DEWATERING BASIN MAY BE REQUIRED TO FACILITATE CONSTRUCTION IN THE DRY. THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL OUTLINING THE METHODS FOR DEWATERING AND SHOWING THE LOCATION OF ALL ELEMENTS USED FOR DEWATERING THE EXCAVATION. THE DEWATERING BASIN SHALL DISCHARGE WATER INTO AN UPLAND AREA A MINIMUM OF 20 FEET FROM THE WETLAND BOUNDARY.</li> <li>2. SAWCUT PAVEMENT AND INSTALL STAGE 1 PRECAST CONCRETE BLOCK RETAINING WALL.</li> <li>3. BACKFILL RETAINING WALL AND INSTALL TRAFFIC PATTERN FOR STAGE 1 CONSTRUCTION.</li> <li>4. REMOVE EASTERN PORTION OF EXISTING SUPERSTRUCTURE AS SHOWN ON DEMO PLAN WITHOUT ALLOWING CONSTRUCTION DEBRIS OR EQUIPMENT WITHIN THE WETLAND BOUNDARY.</li> <li>5. CONSTRUCT EASTERN PORTION OF PROPOSED BRIDGE.</li> <li>6. INSTALL PRECAST CONCRETE BLOCK FOR STAGE 2.</li> <li>7. CONSTRUCT PORTION OF PROPOSED ROADWAY.</li> </ol> | <p><b>STAGE 2</b></p> <ol style="list-style-type: none"> <li>1. ESTABLISH STAGE 2 TRAFFIC CONTROL.</li> <li>2. REMOVE WESTERN PORTION OF EXISTING SUPERSTRUCTURE AS SHOWN ON DEMO PLAN WITHOUT ALLOWING CONSTRUCTION DEBRIS OR EQUIPMENT WITHIN THE WETLAND BOUNDARY.</li> <li>3. CONSTRUCT WESTERN PORTION OF PROPOSED BRIDGE AND ROADWAY.</li> <li>4. REMOVE EROSION AND SEDIMENTATION CONTROLS AFTER FINAL SLOPES HAVE BEEN ESTABLISHED.</li> </ol> |
|--|--|



NOTE: Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

NOTE: 1. ORIGINAL SURVEY BASED ON ASSUMED DATUM. ELEVATIONS SHOWN IN PARENTHESIS ARE ELEVATIONS CORRESPONDING TO NGVD '29.

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

**CME Associates, Inc.**  
 32 Crabtree Lane, Woodcock, CT 06881  
 110 Broadway, Norwich, CT 06860  
 333 East Street, Eastford, CT 06108  
 50 Elm Street, Southbridge, MA 01550  
 Phone: 888-294-3227  
 www.cmeengineering.com

**TOWN OF BURRILLVILLE, RI**  
 DEPARTMENT OF PUBLIC WORKS  
 WARNER LANE OVER CLEAR RIVER  
 BURRILLVILLE, RI

**STAGE CONSTRUCTION PLAN**

REVISIONS		DATE		DESCRIPTION	
NO.	DATE	NO.	DATE	NO.	DESCRIPTION

JOB DATA		DATE		SCALE		PROJECT	
PROJECT	BOOK NO.	DESIGNED	DRAWN	CHECKED	COCO FILE	FILE	DEMO PLAN
2006372		SRA	SRA/PAC	MPC			
DATE: DEC. 10, 2009		SCALE: AS NOTED		PROJECT #: 2006372			

SHEET  
9 OF 17

NOT RELEASED FOR CONSTRUCTION





CAMBER TABLE			
BEAM NUMBER	ESTIMATED CAMBER AT MIDSPAN (INCHES)		
	AT TRANSFER	AT ERECTION	FINAL
S11-48	0.77	1.37	1.28

**CAMBER NOTES:**

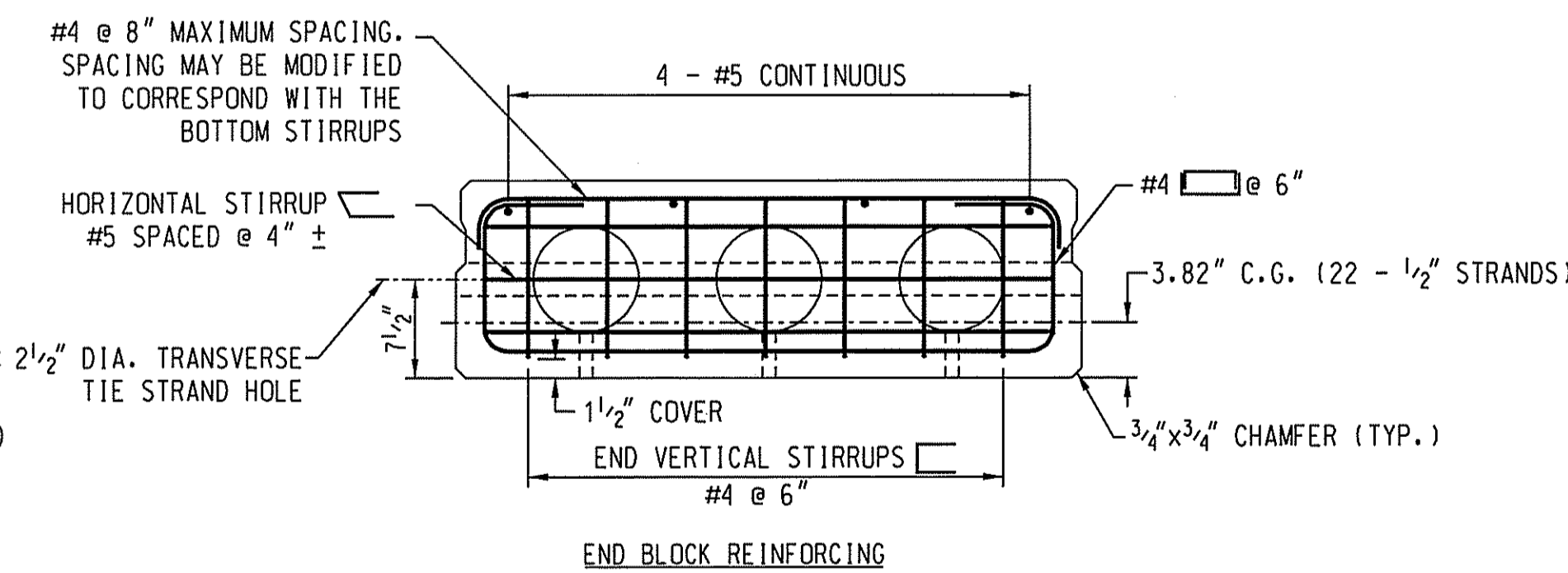
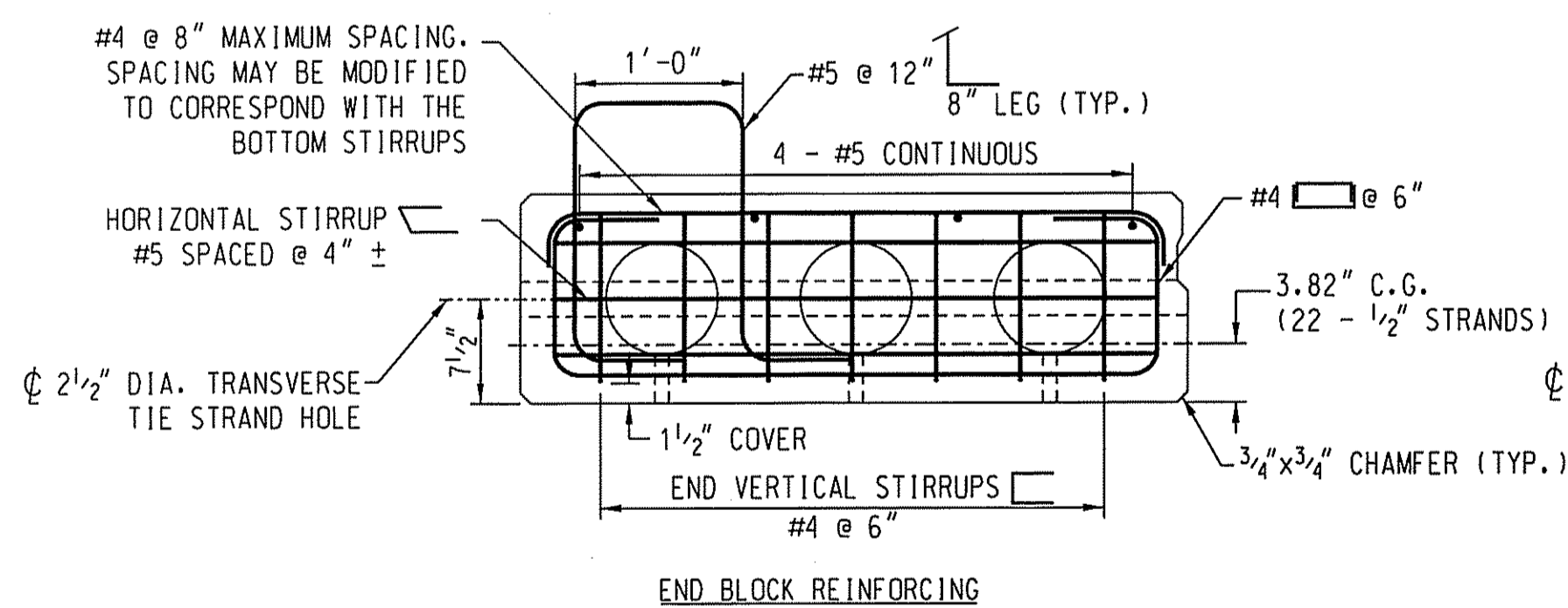
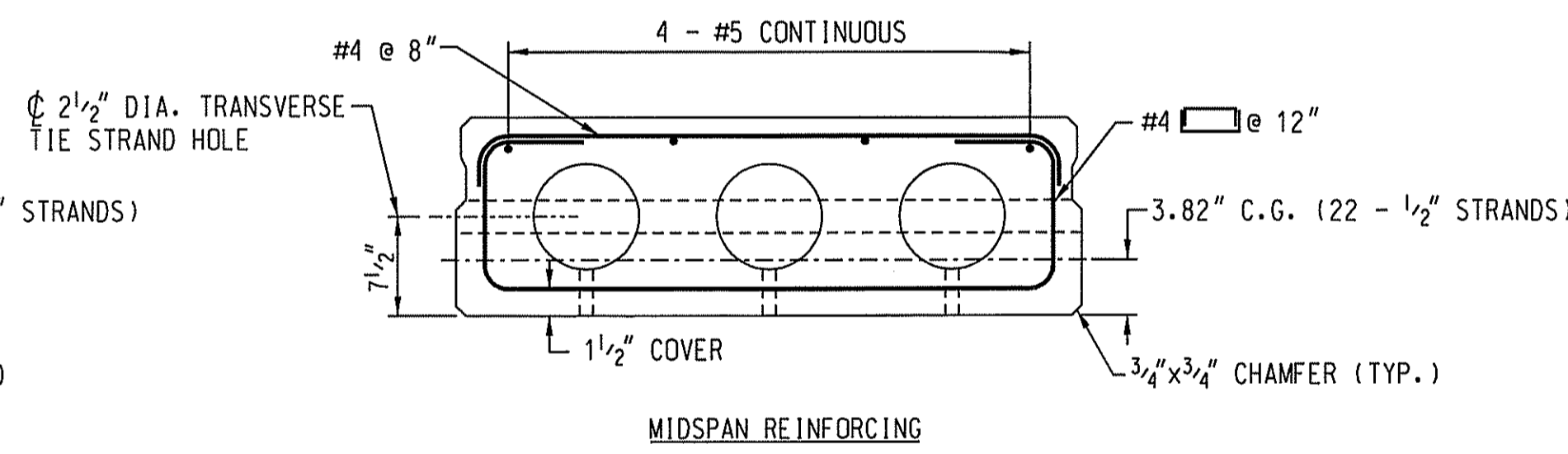
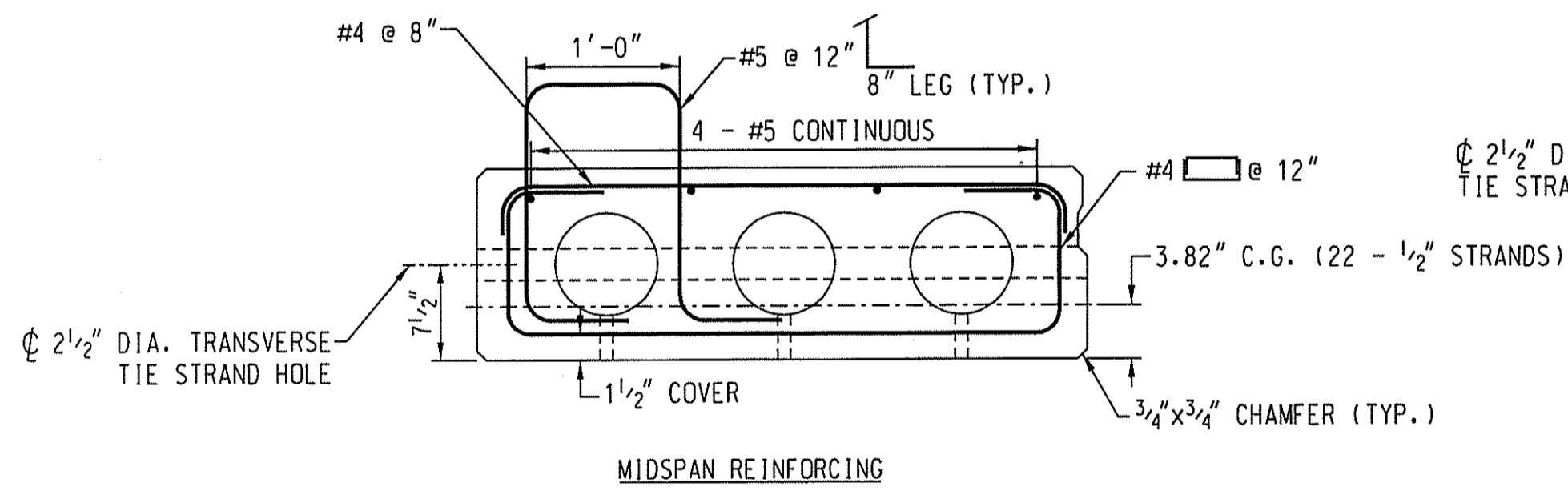
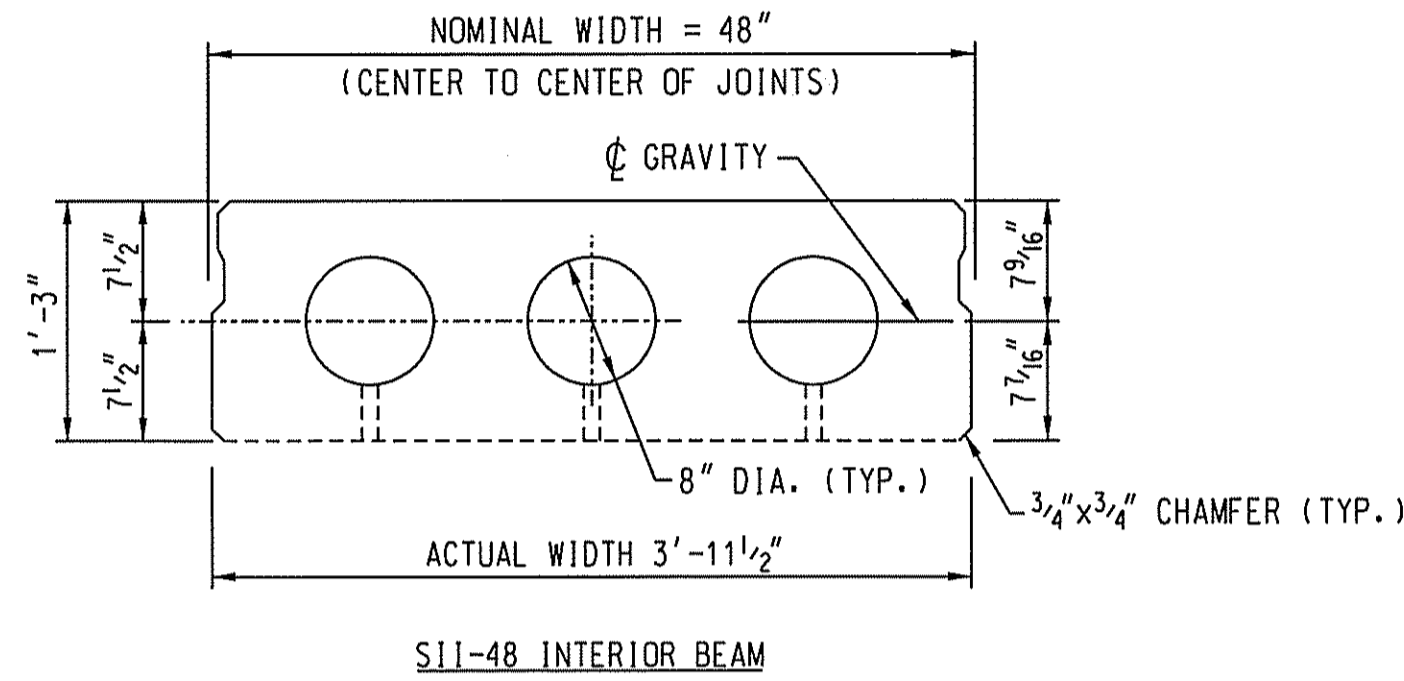
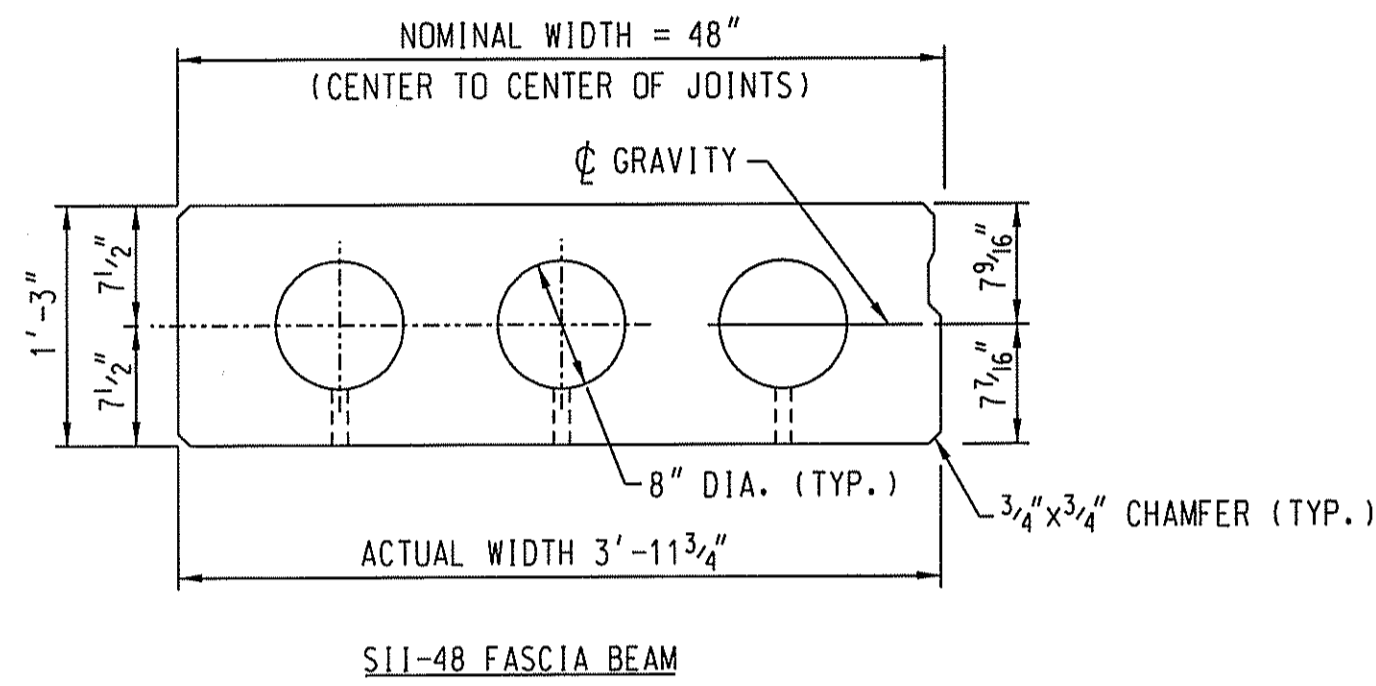
1. AT TRANSFER: CAMBER DUE TO PRETENSIONING FORCE AT TRANSFER MINUS THE DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER.
2. AT ERECTION: CAMBER (DUE TO PRETENSIONING FORCE AT TRANSFER MINUS THE DEFLECTION DUE TO THE DEAD LOAD OF THE MEMBER) THAT IS PRESENT APPROXIMATELY 30 DAYS AFTER THE TRANSFER.
3. FINAL: CAMBER AFTER ALL DEAD LOADS ARE APPLIED TO THE STRUCTURE.
4. POSITIVE CAMBER DENOTES UPWARD DEFLECTION.

**PRECAST CONCRETE NOTES:**

1. PRESTRESSED CONCRETE SLAB SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:  
 $f'c = 6,500$  PSI  
 $f'ci = 4,000$  PSI
2. PRESTRESSED STRANDS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:  
 ULTIMATE STRENGTH ( $f's$ ) = 270 KSI  
 JACKING TENSION ( $f_j$ ) = 31 KIPS/STRAND  
 NO. OF STRANDS = 20  
 C.G. STRANDS = 4.20 IN
3. PRESTRESSED STRANDS SHALL BE PLACED 2" ON CENTERS MINIMUM AND SHALL HAVE A MINIMUM COVER OF 1 1/2".
4. ENDS OF PRESTRESSED CONCRETE SLABS SHALL BE VERTICAL AFTER APPLICATION OF FULL DEAD LOAD.
5. THE DRILLING OF HOLES IN PRESTRESSED CONCRETE SLABS, OR THE USE OF POWER ACTUATED TOOLS ON PRESTRESSED CONCRETE SLABS WILL NOT BE PERMITTED.
6. POCKETS FOR TRANSVERSE TIE ANCHORAGES SHALL BE DRY PACKED FLUSH WITH THE EXTERIOR SURFACE OF THE FASCIA.

**TRANSVERSE TIE TENSIONING NOTES:**

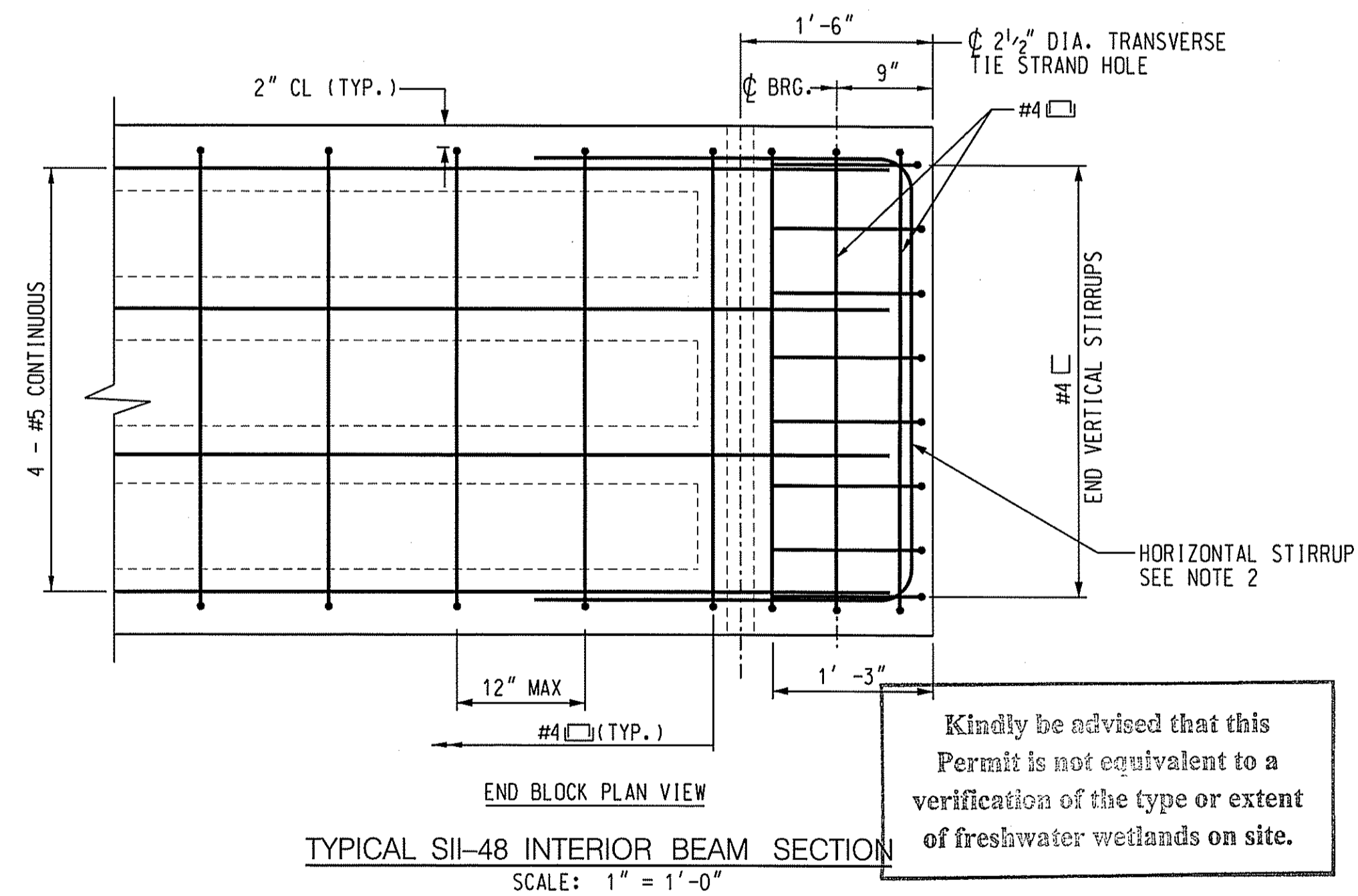
1. AFTER PLACEMENT OF PRESTRESSED CONCRETE SLABS PLACE TRANSVERSE TIE STRANDS.
2. AFTER BEAMS HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5000 +/- POUNDS EACH.
3. FILL ALL KEYWAYS WITH NON-SHRINK GROUT. THE CONTRACTOR SHALL COVER AND PROTECT THE KEYWAYS FROM THE WEATHER AND DEBRIS UNTIL THEY ARE FILLED.
4. AFTER THE GROUT HAS OBTAINED A STRENGTH OF 1,500 PSI (BASED ON THE GROUT MANUFACTURERS DIRECTIONS) TENSION EACH TRANSVERSE TIE TO 30,000 POUNDS EACH. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BEAMS UNTIL ALL TIES HAVE BEEN FULLY TENSIONED.
5. CONCRETE FOR CURB SHALL NOT BE PLACED UNTIL THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED.



- NOTES:**
1. EXTEND LONGITUDINAL LEGS A MINIMUM DISTANCE EQUAL TO THE DEPTH OF THE BEAM OR 12" INTO THE WEB OF THE VOIDED SECTION, WHICHEVER IS LARGER.
  2. HORIZONTAL LEGS OF THE VERTICAL STIRRUPS ARE EQUAL TO THE DEPTH OF THE BEAM.

TYPICAL S11-48 FASCIA BEAM SECTION  
SCALE: 1" = 1'-0"

TYPICAL S11-48 INTERIOR BEAM SECTION  
SCALE: 1" = 1'-0"



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED FEB 12 2010 FILE # 29-0002  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*W. Joseph Conroy*

**CME Associates, Inc.**  
 32 Crabtree Lane, Woodstock, CT 06281 Phone 888 291-3227  
 110 Broadway, Norwich, CT 06360 www.cmeengineering.com  
 553 East River Drive, East Hartford, CT 06108  
 50 Elm Street, Southbridge, MA 01560

**BRYAN BOCH**  
 REG. NO. 000000000  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

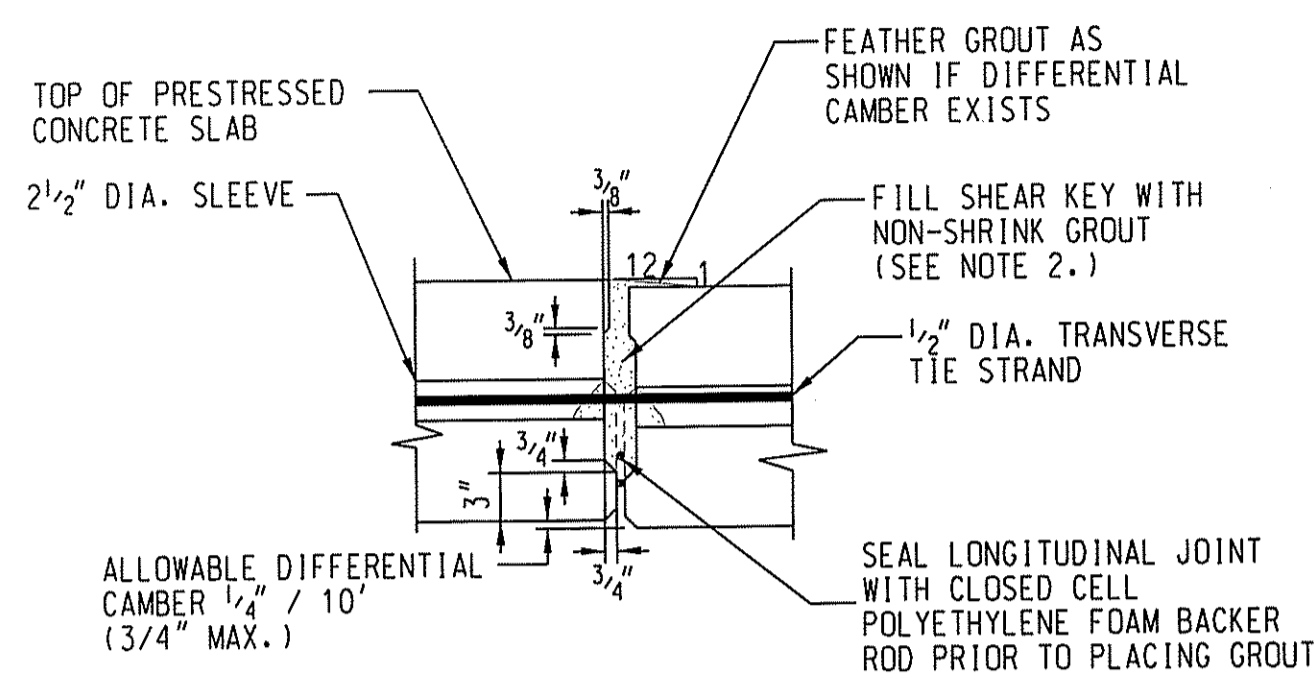
TOWN OF BURRILLVILLE, RI  
 DEPARTMENT OF PUBLIC WORKS  
 BURRILLVILLE, RI  
 WARNER LANE OVER CLEAR RIVER  
 BEAM DETAILS

REVISIONS		JOB DATA	
NO.	DESCRIPTION	PROJECT	DATE
		2006372	
		DESIGNED	
		DRAWN	
		CHECKED	
		FILE	

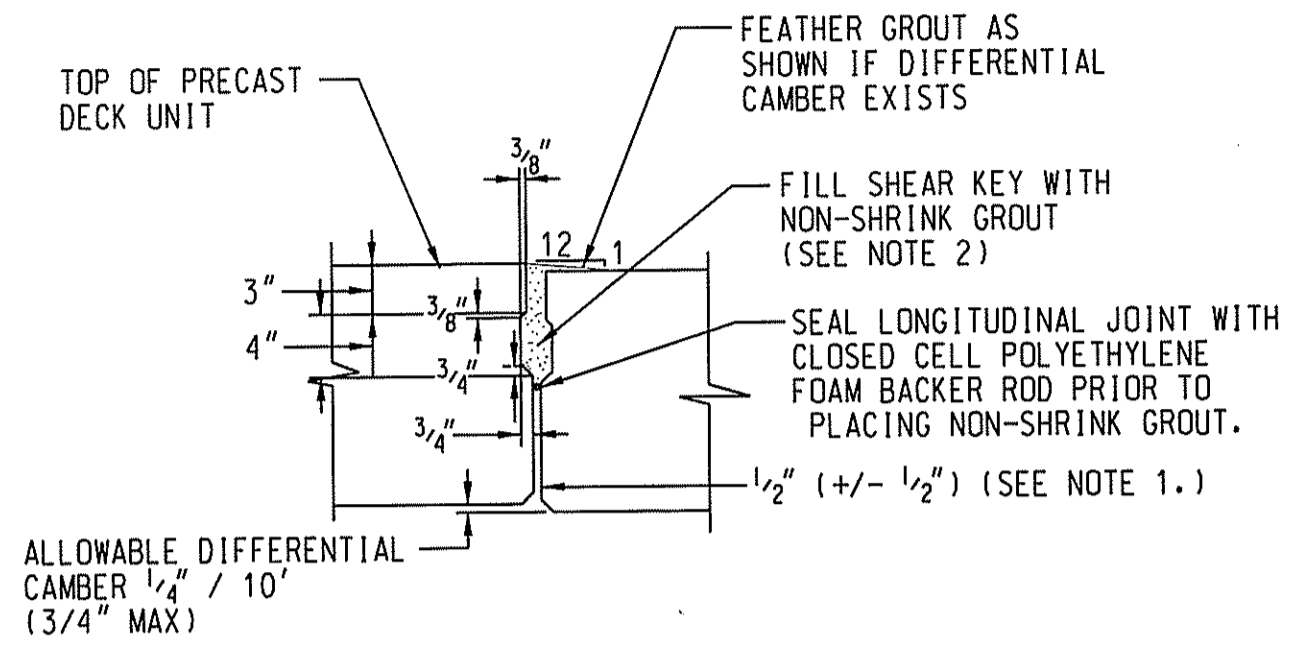
DATE: DEC. 10, 2009  
 SCALE: AS NOTED  
 PROJECT: 2006372

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

NOT RELEASED FOR CONSTRUCTION



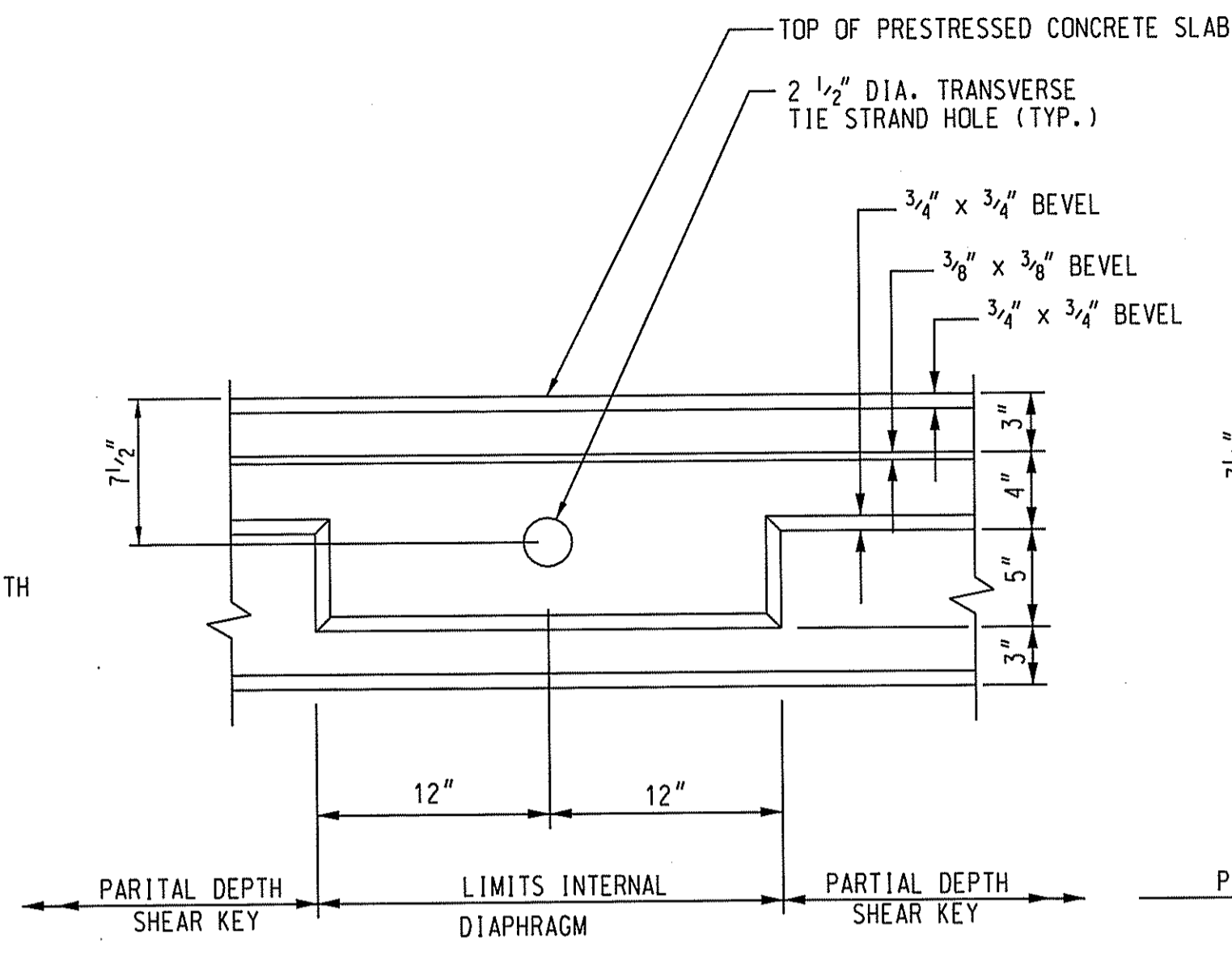
TYPICAL SECTION  
INTERNAL DIAPHRAGM AT TRANSVERSE TIE BLOCK  
NTS



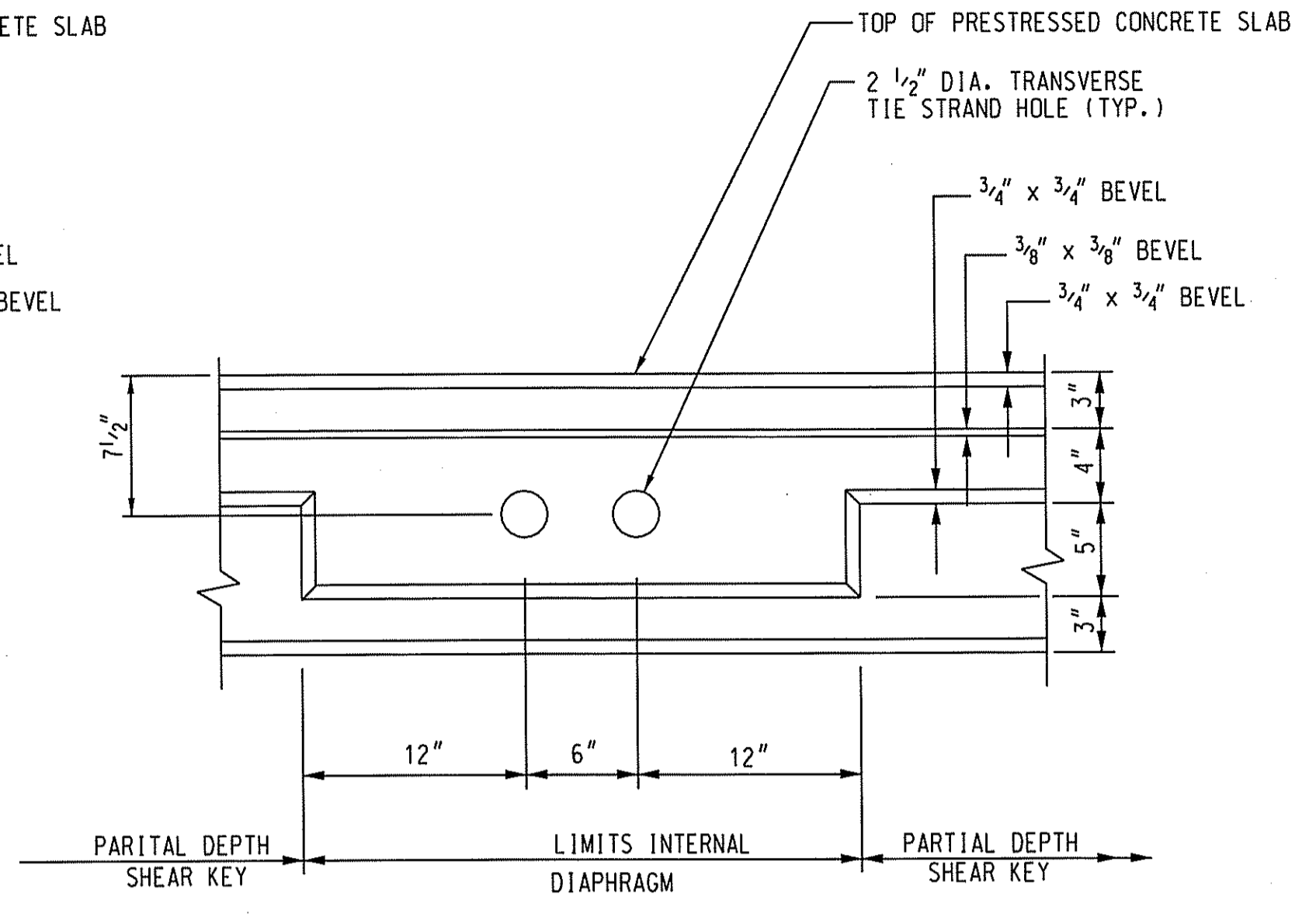
TYPICAL SECTION  
PARTIAL DEPTH SHEAR KEY  
NTS

LONGITUDINAL JOINT NOTES:

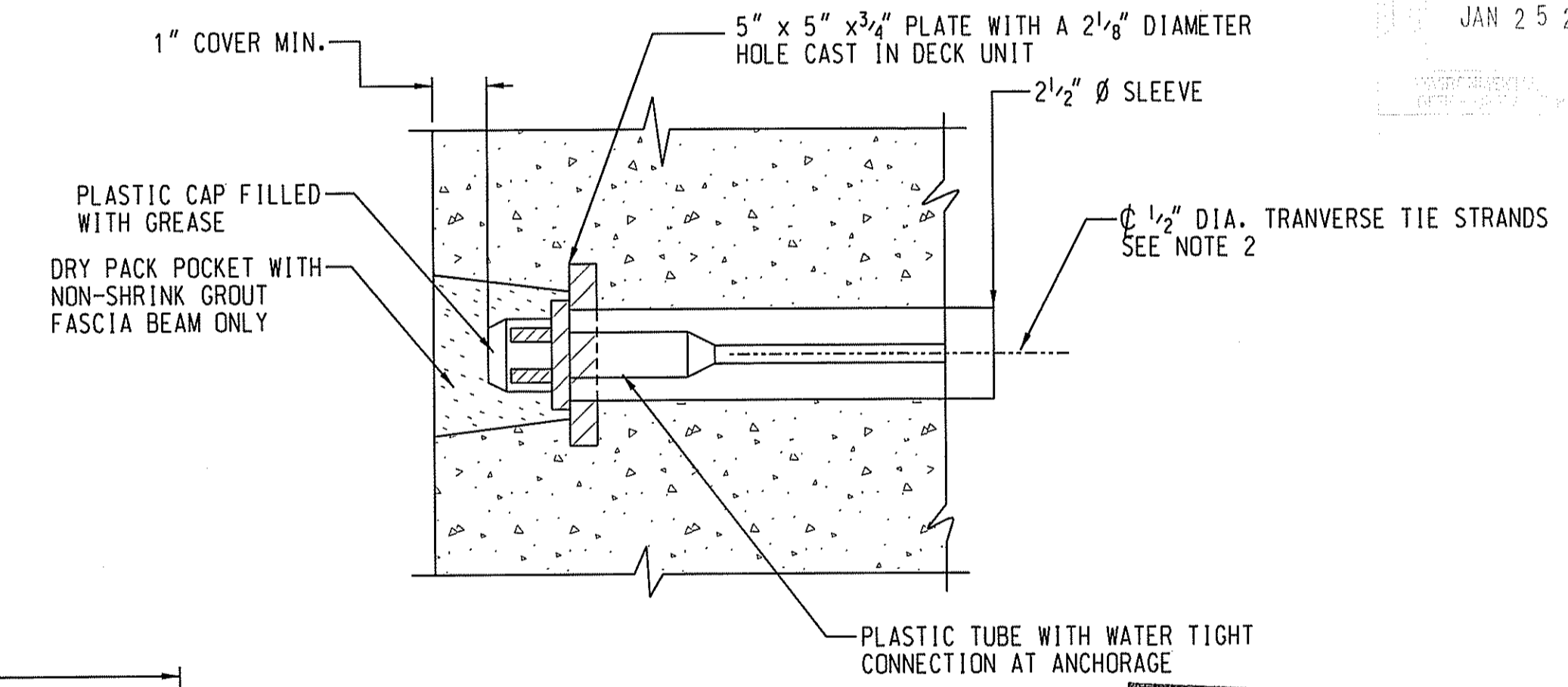
1. THE PRESTRESSED CONCRETE SLABS SHALL BE PLACED AT THE NOMINAL SPACING SHOWN ON THE PLANS WITH A 1/2" WIDE GAP BETWEEN THE UNITS. THE WIDTH OF THE GAP CAN VARY DUE TO SWEEP OF UNITS.
2. GROUT FOR SHEAR KEYS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE SHEAR KEYS ARE FILLED.



SIDE ELEVATION  
TYPICAL DIAPHRAGM AT TRANSVERSE  
POST-TENSIONING DUCT - BEAMS 1-4  
NTS



SIDE ELEVATION  
TYPICAL DIAPHRAGM AT TRANSVERSE  
POST-TENSIONING DUCT - BEAMS 5-7  
NTS

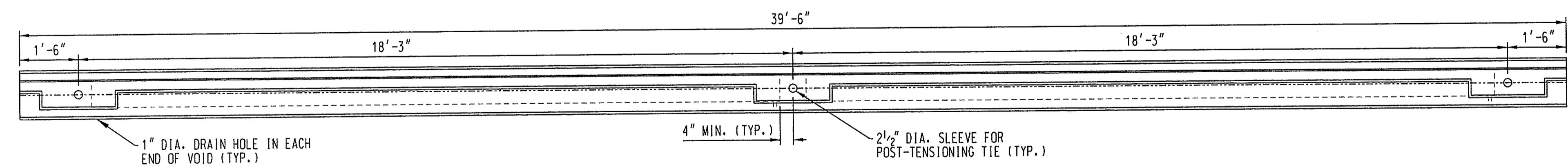


TRANSVERSE TIE POCKET DETAIL  
NTS

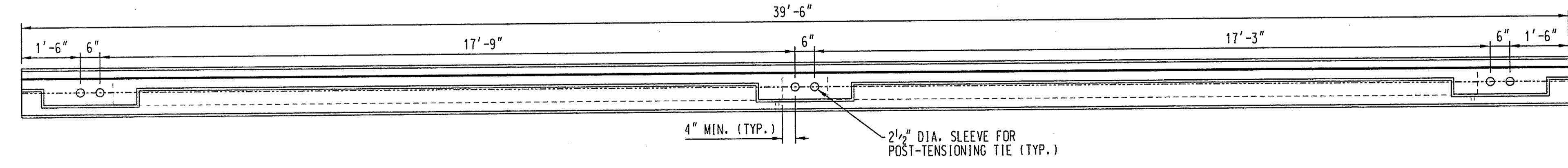
NOTES:

1. OTHER ANCHORAGE SYSTEMS MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. ALTERNATE ANCHORAGE SYSTEMS SHALL BE WATERTIGHT AND CORROSION PROOF.
2. TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND EXCEPT AT THE ANCHORAGE LOCATION.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



ELEVATION VIEW - BEAMS 1-4  
SCALE: 1/2" = 1'-0"



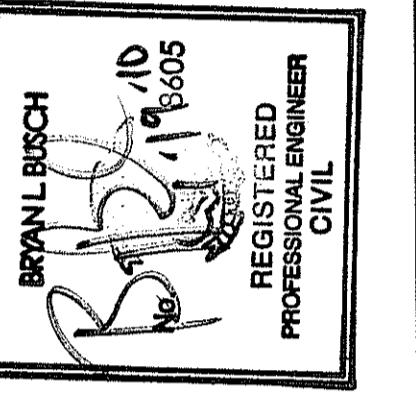
ELEVATION VIEW - BEAMS 5-7  
SCALE: 1/2" = 1'-0"

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0002  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*W. Joseph Conroy*

NOT RELEASED FOR CONSTRUCTION

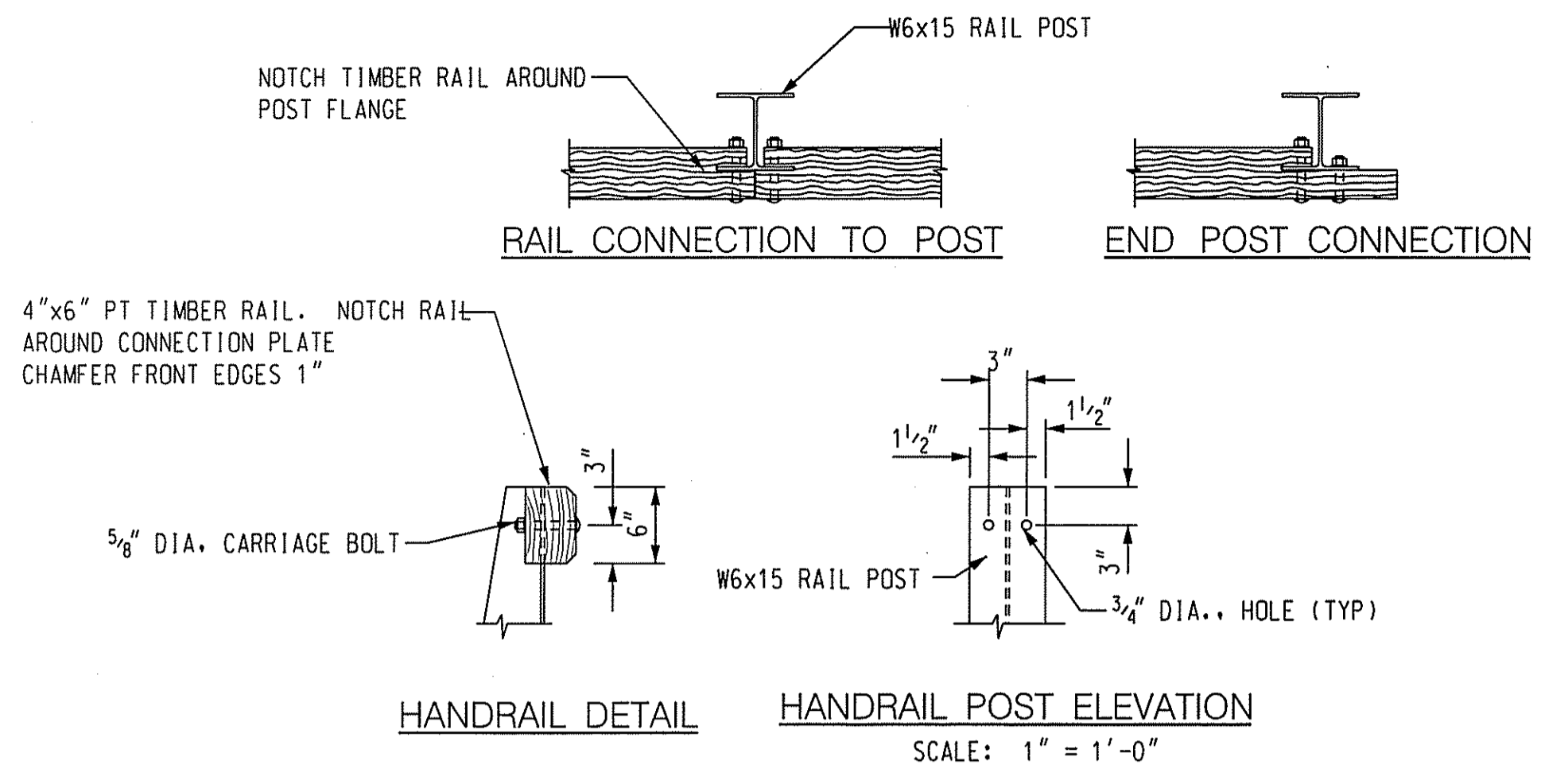
CME Associates, Inc.  
32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06860  
333 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01550  
Phone 888-294-3227  
www.cmeengineering.com



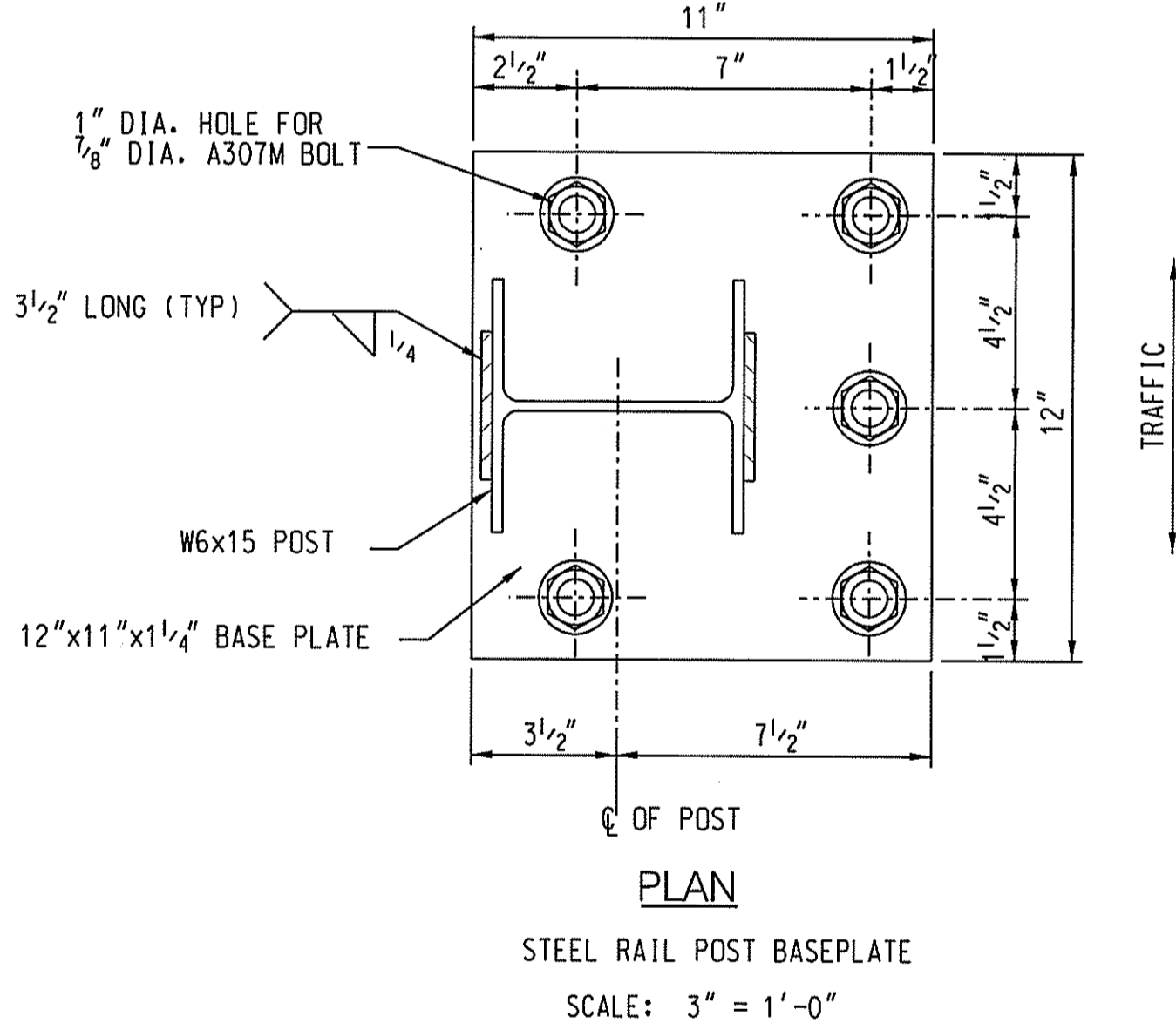
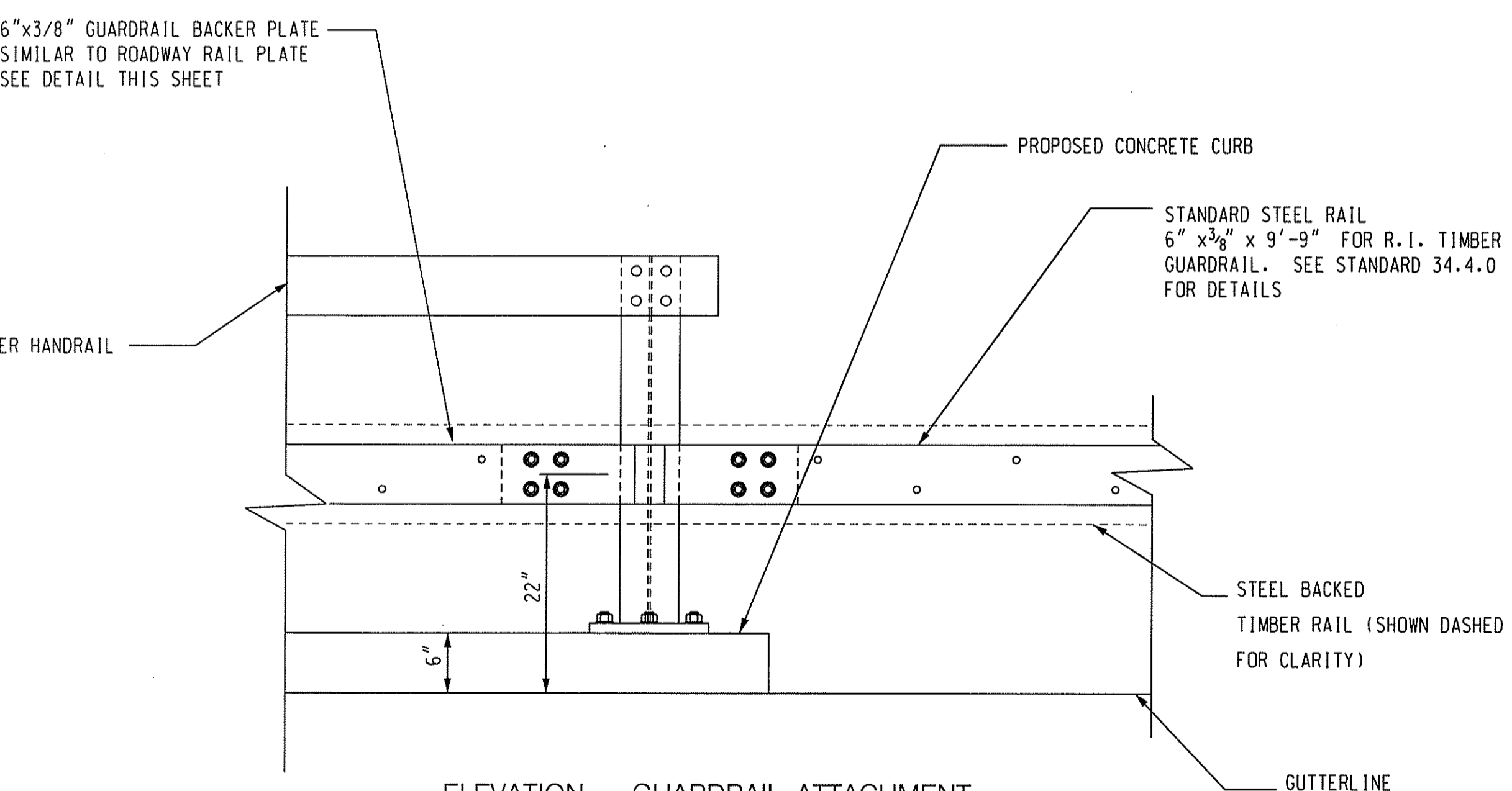
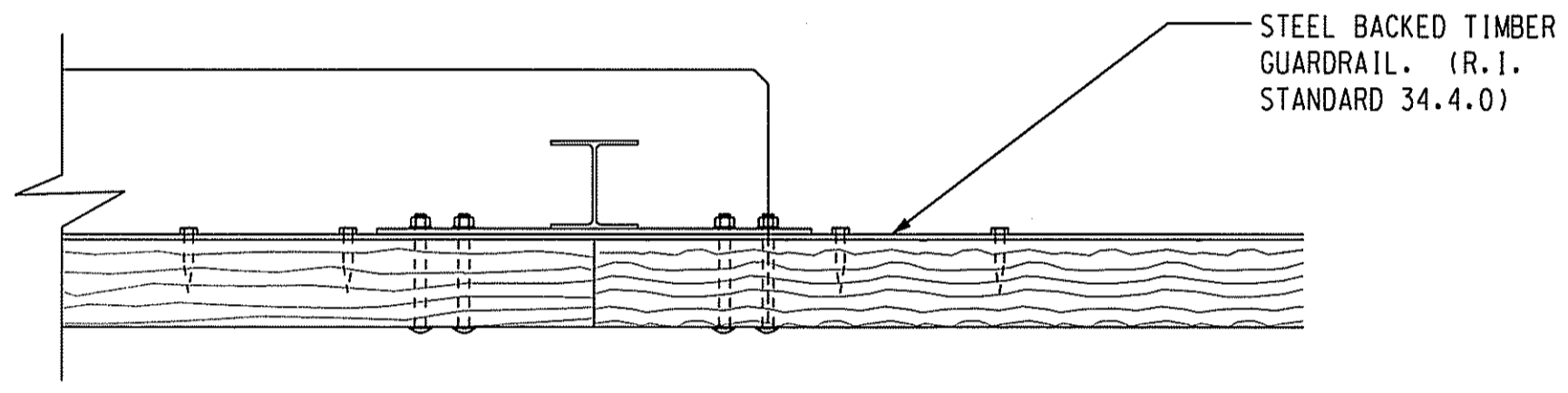
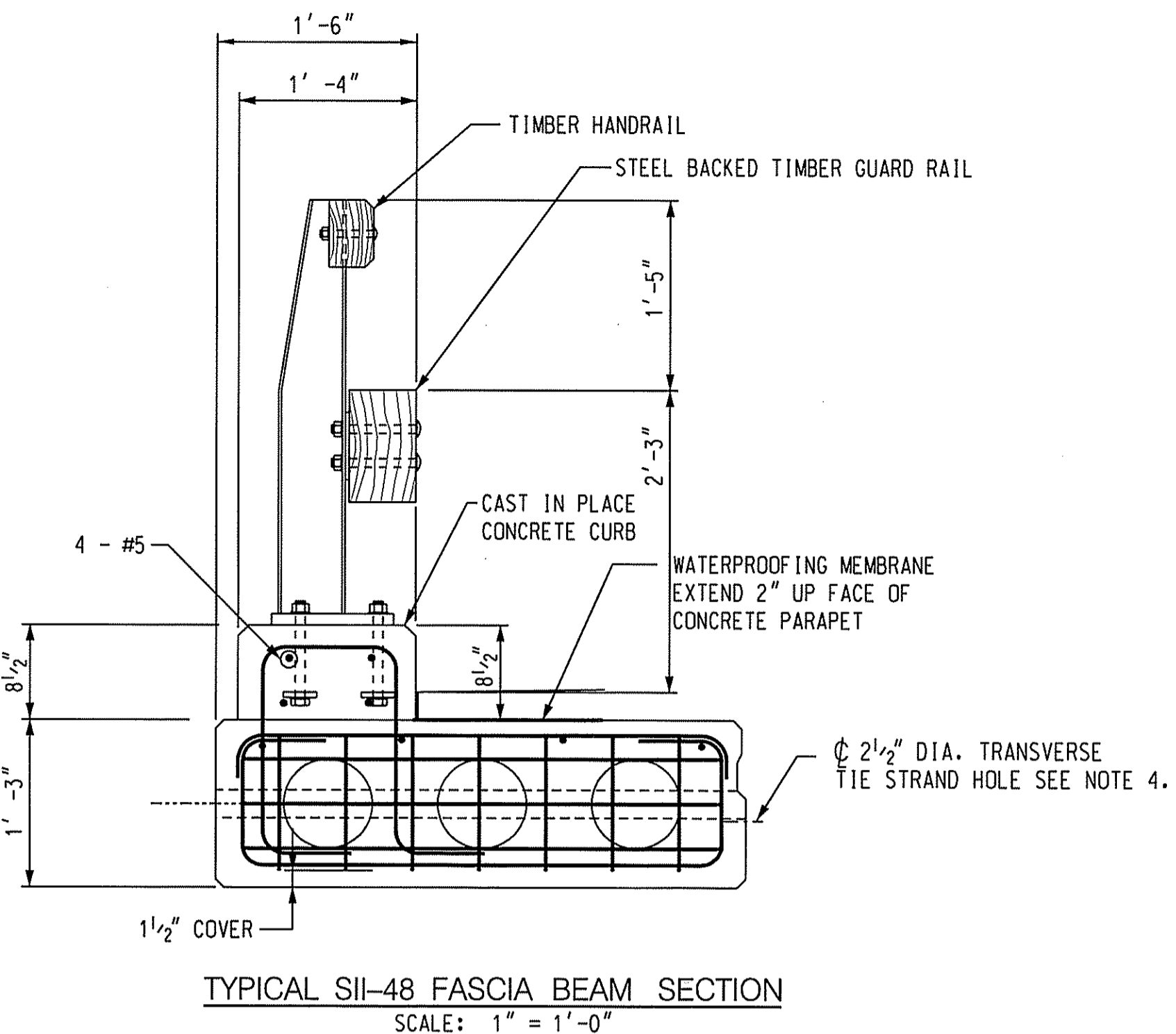
TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
BURRILLVILLE, RI  
WARNER LANE OVER CLEAR RIVER

JOB DATA		REVISIONS	
PROJECT	BOOK NO.	NO.	DESCRIPTION
2006372	SRA/RAC		
	DESIGNED		
	DRAWN		
	CHECKED		
	COO FILE		
	FILE		

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372



NOTES: ALL STEEL AND BOLTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. EXTEND TIMBER RAIL 6" BEYOND LAST POST. SEE SLAB PLAN FOR LAYOUT AND SPACING OF POSTS.

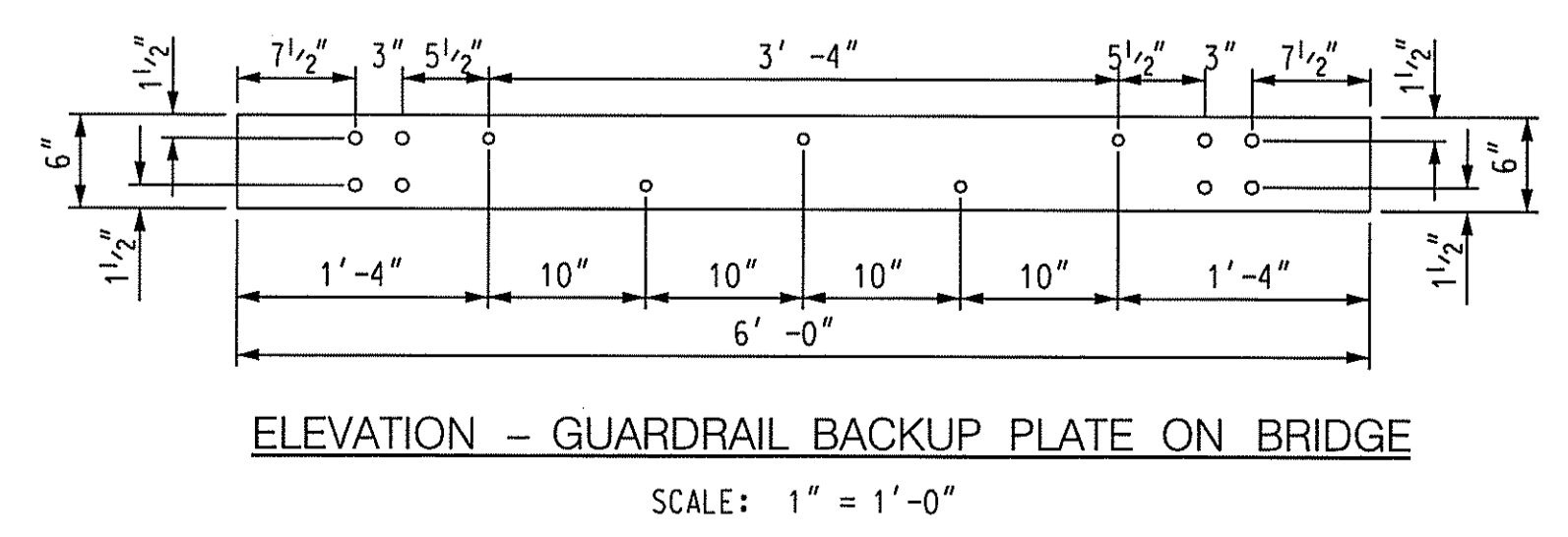


- RAIL POST NOTES:
1. POST AND BASEPLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND SHALL BE GALVANIZED ACCORDING TO ASTM A123.
  2. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307 AND SHALL BE GALVANIZED ACCORDING TO ASTM A153.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0062  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

RECEIVED  
JAN 25 2010  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES



QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

**CME Associates, Inc.**

32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06360  
532 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southington, MA 01550

Phone 860-261-3227  
www.cmeengineering.com

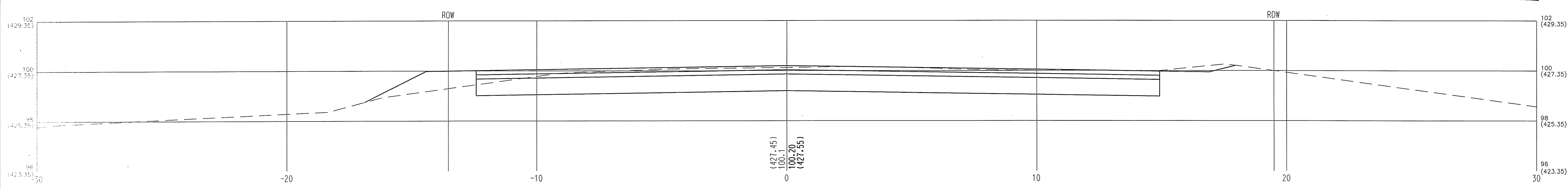
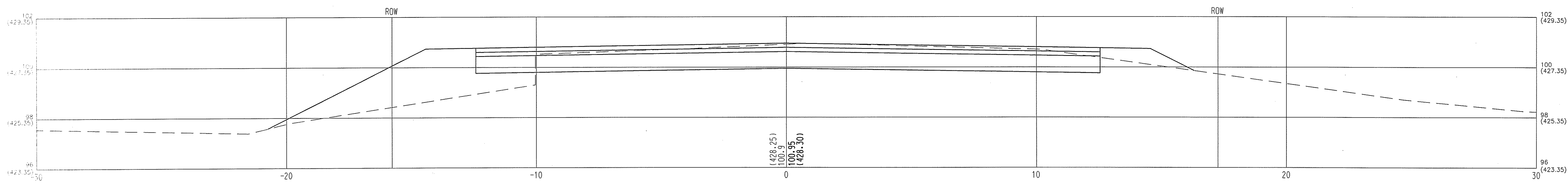
TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
WARNER LANE OVER CLEAR RIVER  
BURRILLVILLE, RI

REVISIONS		JOB DATA	
NO.	DESCRIPTION	PROJECT NO.	DATE
		2006372	
		DESIGNED	SRA
		DRAWN	SRA/RAC
		CHECKED	MPC
		COOQ FILE	
		FILE	

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

NOT RELEASED FOR CONSTRUCTION





RECEIVED  
JAN 25 2010  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-0022  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

*W. Joseph Casey*

NOTE:  
1. ORIGINAL SURVEY BASED ON ASSUMED DATUM.  
ELEVATIONS SHOWN IN PARENTHESIS ARE ELEVATIONS CORRESPONDING TO NGVD '29.

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

NOT RELEASED FOR CONSTRUCTION

**CME Associates, Inc.**

32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06360  
333 East River Drive, East Hartford, CT 06108  
59 Elm Street, Southbridge, MA 01550  
Phone 888-291-3227  
www.cmeengineering.com

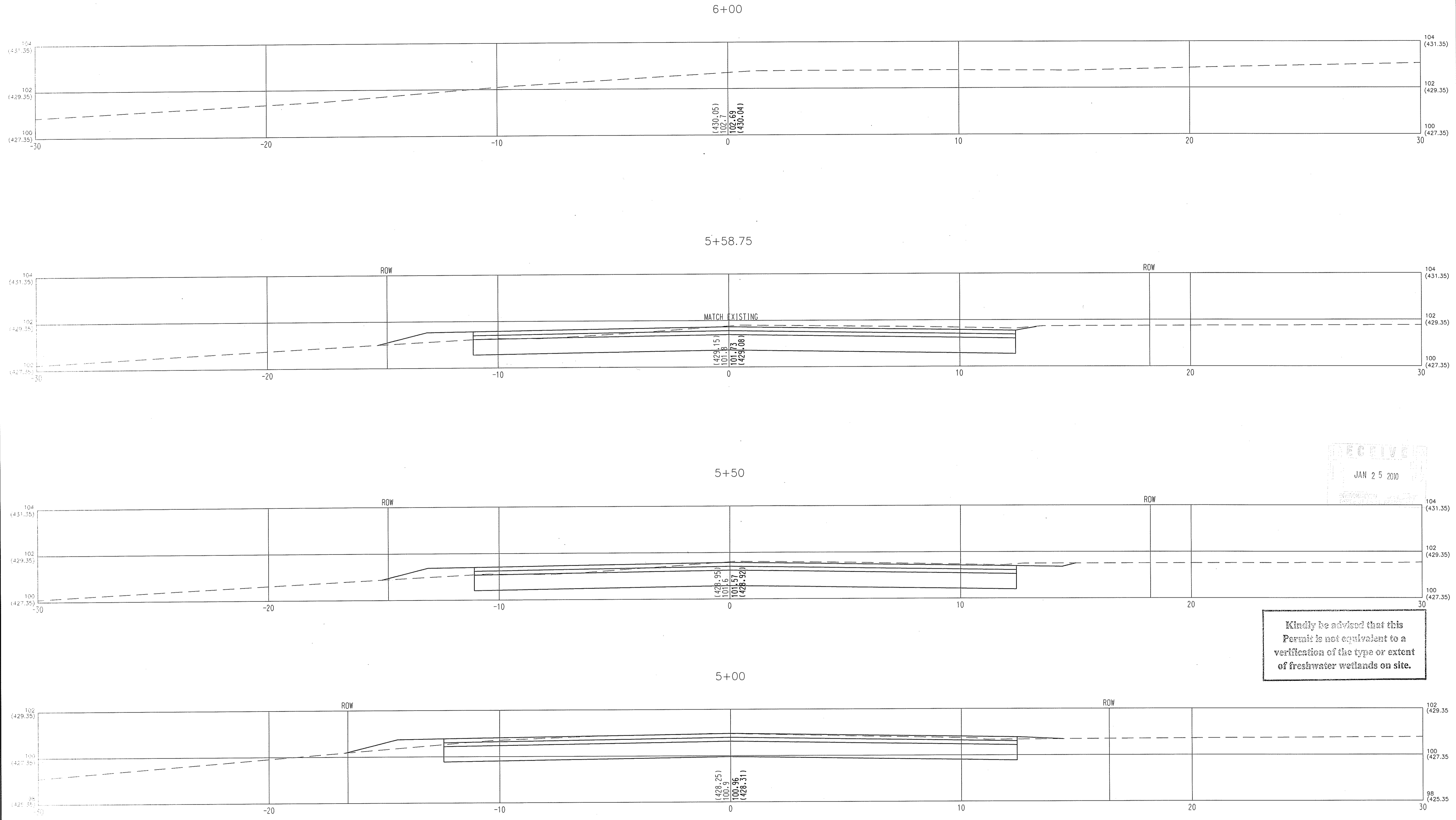
BRYAN L. BUSCH  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
BURRILLVILLE, RI  
WARNER LANE OVER CLEAR RIVER  
CROSS SECTIONS

JOB DATA		REVISIONS	
PROJECT	DATE	NO.	DESCRIPTION
2006372			
BOOK NO.	DESIGNED	SRA	
DRAWN	CHECKED	SRA/RAC	
FILE	LOGO FILE	MFC	
		LAYOUT	

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

SHEET 16 OF 17



RECEIVED  
JAN 25 2010

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED FEB 12 2010 FILE # 09-022  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.  
*W. Joseph Carney*

QUALITY CONTROL CERTIFICATION		
GROUP	REVIEWED	DATE
PROJECT MANAGER		
SURVEY		
ENVIRONMENTAL		
CIVIL		
STRUCTURAL		
ARCHITECTURAL		

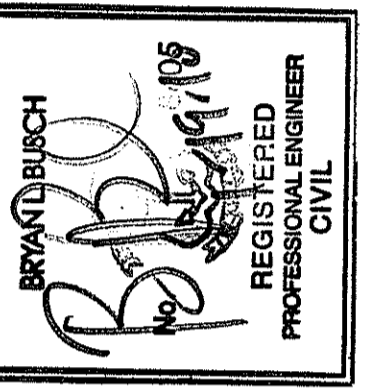
NOT RELEASED FOR CONSTRUCTION

NOTE:  
1. ORIGINAL SURVEY BASED ON ASSUMED DATUM.  
ELEVATIONS SHOWN IN PARENTHESIS ARE ELEVATIONS  
CORRESPONDING TO NGVD '29.

CME Associates, Inc.



32 Crabtree Lane, Woodstock, CT 06281  
110 Broadway, Norwich, CT 06560  
333 East River Drive, East Hartford, CT 06108  
50 Elm Street, Southbridge, MA 01550  
Phone 888-291-3227  
www.cmeengineering.com



TOWN OF BURRILLVILLE, RI  
DEPARTMENT OF PUBLIC WORKS  
BURRILLVILLE, RI  
WARNER LANE OVER CLEAR RIVER  
CROSS SECTIONS

JOB DATA		REVISIONS	
PROJECT	BOOK NO.	NO.	DESCRIPTION
2006372			
DESIGNED	SFA		
DRAWN	SRW/RAC		
CHECKED	MPC		
COCG FILE			
FILE	LoyalLdp		

DATE: DEC. 10, 2009  
SCALE: AS NOTED  
PROJECT #: 2006372

SHEET  
17 OF 17