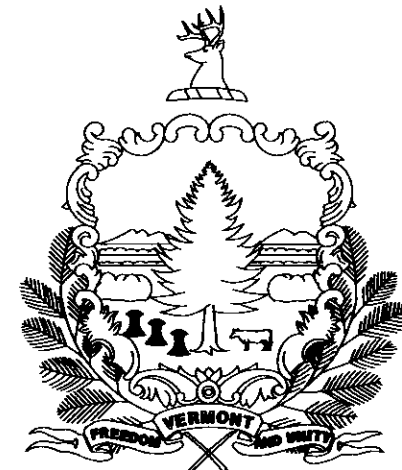


SEE SHEET 2 FOR INDEX OF SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION



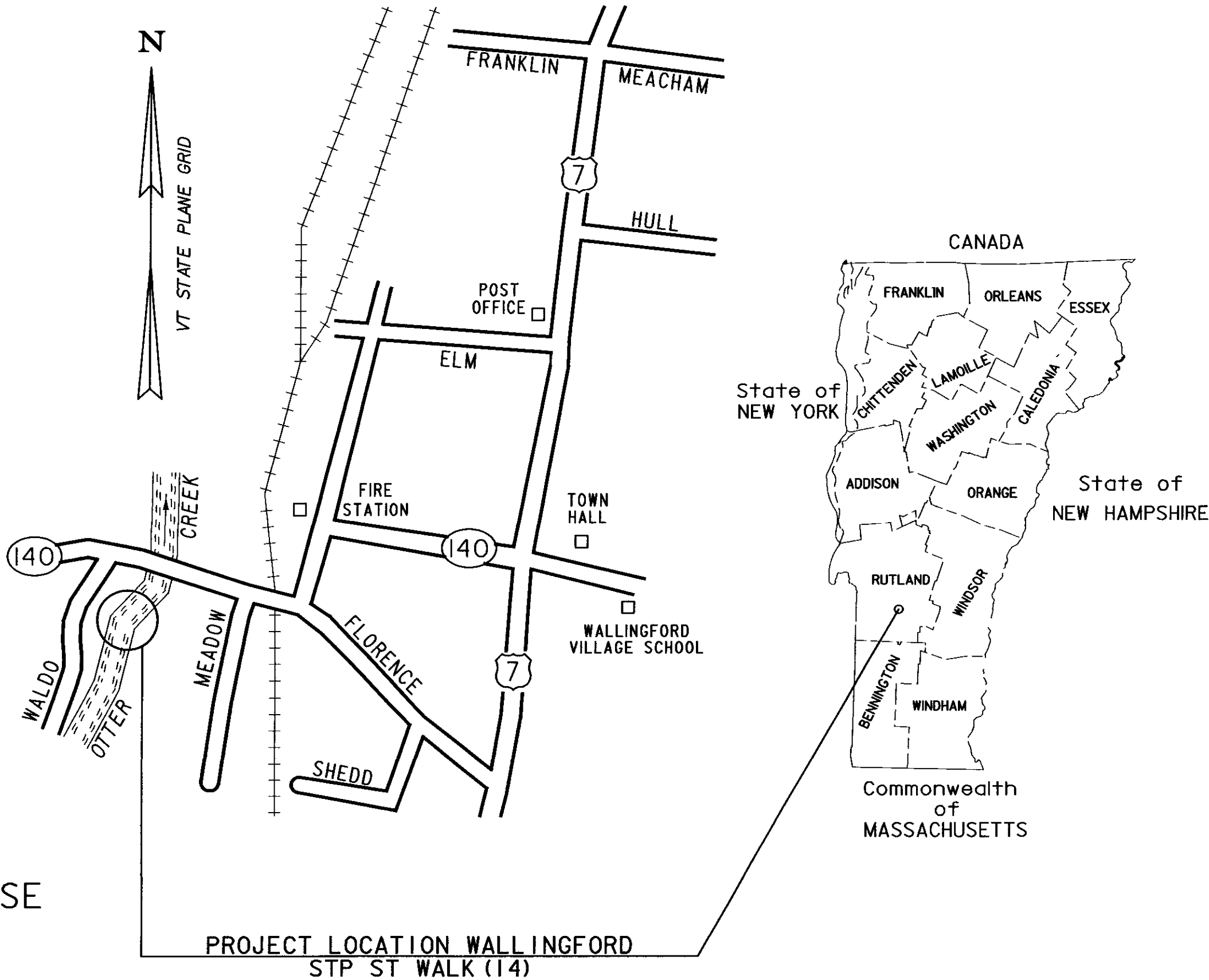
PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF WALLINGFORD
COUNTY OF RUTLAND

ROUTE NO : PEDESTRIAN BRIDGE BRIDGE NO : ADAPTIVE REUSE

PROJECT LOCATION: LOCATED IN THE COUNTY OF RUTLAND, TOWN OF WALLINGFORD,
PEDESTRIAN BRIDGE OVER THE OTTER CREEK, APPROXIMATELY 800+/- FEET
SOUTH OF VT. ROUTE 140 BETWEEN WALDO LANE AND THE WALLINGFORD TOWN PARK.

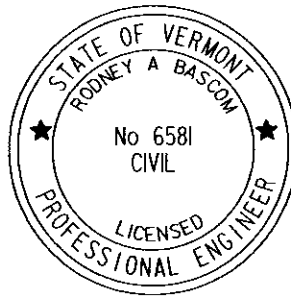
PROJECT DESCRIPTION: REHABILITATE AND ASSEMBLE HISTORIC TRUSS OVER OTTER CREEK AT THE WALLINGFORD TOWN PARK.

LENGTH OF STRUCTURE : 120.91 FEET
LENGTH OF APPROACH: 154.01 FEET
LENGTH OF PROJECT: 274.92 FEET



CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	



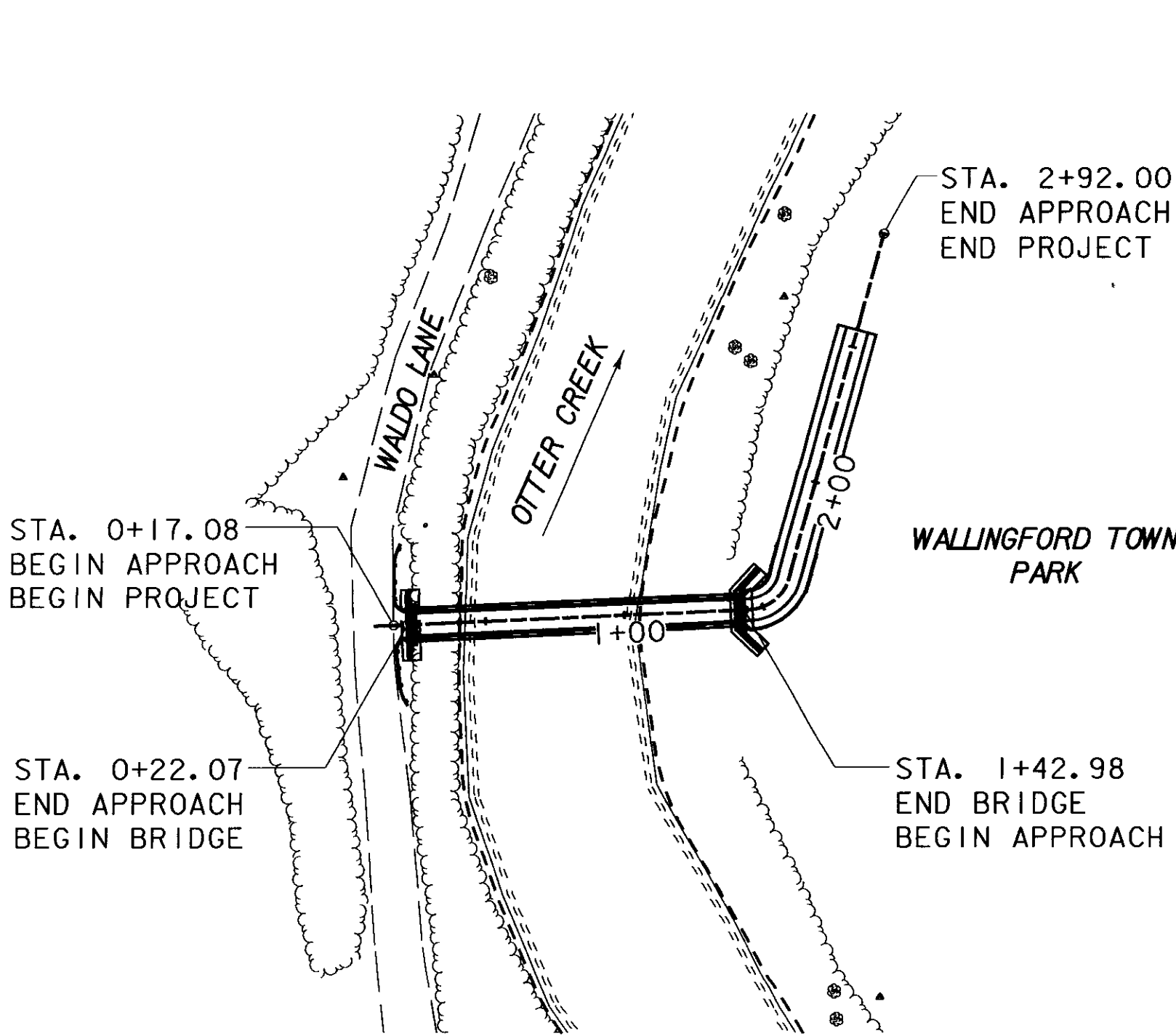
PLANS PREPARED BY

Richard J. Brouse

CHA

DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (92)



SCALE 1" = 50'



RECORD PLANS

CONTRACTOR RENAUD BROTHERS, INC - VERNON, VT

RESIDENT ENGINEER ERIC FOSTER

CONSTRUCTION BEGAN APRIL 10, 2009

CONSTRUCTION COMPLETE NOVEMBER 18, 2009

RECORD PLANS BY ERIC FOSTER & NICK GARBACIK

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN

BY *Eric Foster* RESIDENT ENGINEER

DATE 10 25 2010

NOTE Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives (OnBase)

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED *Richard J. Brouse* DATE 1-13-09

PROJECT MANAGER : SUSAN SCRIBNER

PROJECT NAME : WALLINGFORD
PROJECT NUMBER : STP ST WALK (14)

SHEET 1 OF 26 SHEETS

PRELIMINARY INFORMATION SHEET

INDEX OF SHEETS 1. TITLE SHEET 2. PRELIMINARY INFORMATION SHEET 3. QUANTITY SHEET 1 4. QUANTITY SHEET 2 5. PROJECT TYPICAL SECTIONS 6. ITEM DETAIL SHEET 7. EPSC NARRATIVE 8. EPSC DETAIL SHEET 1 9. EPSC DETAIL SHEET 2 10. EXISTING CONDITIONS PLAN 11. EPSC PLAN 1 12. EPSC PLAN 2 13. PROJECT NOTES 14. BORING INFORMATION 15. BORING LOGS 16. PLAN AND ELEVATION 17. DECK PLAN AND DETAILS 18. TRUSS REHABILITATION 19. FRAMING PLAN AND DETAILS 20. ABUTMENT 1 PLAN AND ELEVATION 21. ABUTMENT 2 PLAN AND ELEVATION 22. ABUTMENT PILE LAYOUT & FOOTING REINFORCEMENT PLAN 23. ABUTMENT 1 & 2 REINFORCEMENT SECTIONS 24. BRIDGE RAILING DETAILS 25. RAIL LAYOUT PLAN AND DETAILS 26. REINFORCING STEEL SCHEDULE LIST OF STANDARDS A-7803-31-2004 A-8003-31-2004 B-506-01-1994 E-10001-02-2004 E-100A01-02-2004 E-10206-30-2003 E-102A05-01-2004 E-10603-01-2004 E-10706-30-2003 E-107A08-08-1995 E-11103-11-1997 F-206-01-1994 G-101-03-2000 G-1D01-03-2000 G-1606-01-1994			FINAL HYDRAULIC REPORT HYDROLOGIC DATA Date: DRAINAGE AREA :94.9 sq-mi CHARACTER OF TERRAIN :Generally forested, ranging from mountainous to valley floor. STREAM CHARACTERISTICS :Sinuous planform, perennial subcritical flow. NATURE OF STREAMBED :Gravel bed with sand and cobbles present. PEAK FLOW DATA Q 2.33 =2600 cfs Q 10 =5260 cfs Q 25 =N/A Q 50 =7980 cfs Q 100 =9210 cfs Q 500 =12400 cfs DATE OF FLOOD OF RECORD :1927 ESTIMATED DISCHARGE :Unknown WATER SURFACE ELEV.:Unknown NATURAL STREAM VELOCITY :2-3 ft/sec ICE CONDITIONS :Moderate DEBRIS :Moderate DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY?No IS ORDINARY RISE RAPID?No IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?Yes IF YES, DESCRIBE :Minor backwater from Vermont Route 140 bridge approximately 800 ft downstream. WATERSHED STORAGE:Minimal HEADWATERS: UNIFORM:x IMMEDIATELY ABOVE SITE: EXISTING STRUCTURE INFORMATION STRUCTURE TYPE:There is presently no bridge at this site. YEAR BUILT: CLEAR SPAN(NORMAL TO STREAM): VERTICAL CLEARANCE ABOVE STREAMBED: WATERWAY OF FULL OPENING: DISPOSITION OF STRUCTURE: TYPE OF MATERIAL UNDER SUBSTRUCTURE: WATER SURFACE ELEVATIONS AT: Q2.33 =566.7 ft Q10 =569.3 ft Q25 =N/A Q50 =572.0 ft Q100 =572.7 ft VELOCITY =5.4 fps "6.7 fps "N/A "6.9 fps "7.0 fps LONG TERM STREAMBED CHANGES: IS THE ROADWAY OVERTOPPED BELOW Q100: FREQUENCY: RELIEF ELEVATION: DISCHARGE OVER ROAD @Q100: UPSTREAM STRUCTURE TOWN:Wallingford HIGHWAY #:US Route 7 CLEAR SPAN:117' (west) 135' (east) YEAR BUILT:1996 STRUCTURE TYPE:2 span continuous welded plate girder DISTANCE:3700 ft STRUCTURE #:79 CLEAR HEIGHT:- FULL WATERWAY:5505 sq-ft DOWNSTREAM STRUCTURE TOWN:Wallingford HIGHWAY #:Vermont Route 140 CLEAR SPAN:127' YEAR BUILT:Unknown STRUCTURE TYPE:Steel Truss DISTANCE:800 ft STRUCTURE #:54 CLEAR HEIGHT:22' FULL WATERWAY:1587 sq-ft LOAD FACTORLOAD RATING (TONS) LOADING LEVELS HHS3S26 AXLE3A STR4A STR5A SEMI INVENTORY23 POSTED OPERATING41 COMMENTS: TRAFFIC DATA YEARADTDHVP% D% TADTT 2007N/AN/AN/AN/AN/A 2027N/AN/AN/AN/AN/A 20 year ESAL for flexible pavement fromN/AtoN/A:N/A 40 year ESAL for flexible pavement fromN/AtoN/A:N/A Design Speed :N/A mph PROPOSED STRUCTURE STRUCTURE TYPE:Warren Pony Truss - Adaptive Reuse of Historic Bridge CLEAR SPAN(NORMAL TO STREAM):117.0 ft VERTICAL CLEARANCE ABOVE STREAMBED:16.2 ft WATERWAY OF FULL OPENING:1240 sq-ft WATER SURFACE ELEVATIONS AT: Q2.33 =567.0 ft Q10 =569.4 ft Q25 =N/A Q50 =572.0 ft Q100 =572.7 ft VELOCITY=5.2 fps "6.6 fps "N/A "6.9 fps "6.9 fps IS THE ROADWAY OVERTOPPED BELOW Q100:No FREQUENCY: RELIEF ELEVATION: DISCHARGE OVER ROAD @Q100: AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:573.78 ft VERTICAL CLEARANCE:Q50 = 1.8 ft Q100 = 1.1 ft SCOUR:1.0 ft of contraction scour during Q10. Larger flood events exceed main channel banks and bypass the bridge in the in the right overbank. REQUIRED CHANNEL PROTECTION:Stone Fill Type III PERMIT INFORMATION AVERAGE DAILY FLOW:162 cfs ORDINARY LOW WATER:- ORDINARY HIGH WATER:- DEPTH OR ELEVATION: Elev. 562.5 ft Elev. 564.5 ft TEMPORARY BRIDGE REQUIREMENTS STRUCTURE TYPE:No temporary bridge required. CLEAR SPAN (NORMAL TO STREAM): VERTICAL CLEARANCE ABOVE STREAMBED: WATERWAY AREA OF FULL OPENING: ADDITIONAL INFORMATION All elevations are referenced to NAVD88. Flow overtops main channel banks in the right approach between the 10 and 50-year flood events. DESIGN CRITERIA 1. DESIGN LIVE LOAD AASHTOPedestrian LL (trusses), H-10 (floorbeams & stringers) 2. DESIGN SPAN117'-0" 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOILN/A ON LEDGE N/A 4. ALLOWABLE LOAD FOR PILING54 kips TYPEConcrete filled 12.75" O.D. x 3/8" steel pipe piling, ASTM A-252 Grade 2 (Fy = 35 ksi) ESTIMATED LENGTH51' (Abutment 1) 53' (Abutment 2) 5. STRUCTURAL STEEL AASHTO M270M/M270 GRADE50 Painted 6. REINFORCING STEEL GRADE60 7. CONCRETE, HIGH PERFORMANCE CLASS A f'c:N/A CONCRETE, HIGH PERFORMANCE CLASS B f'c:3,500psi (substructures, pipe piling and metal hand rail foundations) 8. DESIGN SOIL UNIT WEIGHT140 pcf 9. DESIGN LOAD FOR SPREAD FOOTINGS ON SOILN/A TRAFFIC MAINTENANCE 1. IS TRAFFIC TO BE MAINTAINED?Yes, on Waldo Lane IF YES, ON EXISTING STRUCTURE?No OR ON TEMPORARY BRIDGE?No ONE OR TWO-WAY TRAVEL?N/A 2. TRAFFIC CONTROL SIGNALS REQUIRED?No 3. ARE SIDEWALKS REQUIRED?No IF SO, ON WHAT SIDE?N/A PROJECT NAME:WALLINGFORD PROJECT NUMBER:STP ST WALK(14) FILE NAME:202F136PRELIM.XLS PROJECT LEADER:S. SCRIBNER DESIGNED BY:D. D'AMATO PRELIMINARY INFORMATION SHEET PLOT DATE:08/07/2008 DRAWN BY:D. D'AMATO CHECKED BY:P. HALSTEAD SHEET2OF26									
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QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES										
		FULL C.E.	EROSION CONTROL	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUND
		-	-	1	-	1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
		-	-	-	20	20	CY	COMMON EXCAVATION	203.15	8
		-	-	310	-	310	CY	CHANNEL EXCAVATION OF EARTH	203.25	6
		-	-	-	110	110	CY	EARTH BORROW	203.30	-
		-	-	150	-	150	CY	STRUCTURE EXCAVATION	204.25	-
		-	-	80	-	80	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	8
		-	-	-	80	80	CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25	4
		-	-	-	15	15	TON	MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.27	3
		-	-	75	-	75	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
		-	-	-	75	75	CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34	4
		-	-	1	-	1	LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10	-
		-	-	2	-	2	EA	DYNAMIC PILE LOADING TEST	505.45	-
		-	-	29,410	-	29,410	LB	STRUCTURAL STEEL, ROLLED BEAM	506.50	5
		-	-	11,400	-	11,400	LB	STRUCTURAL STEEL	506.60	4
		-	-	4,340	-	4,340	LB	REINFORCING STEEL	507.15	-
		-	-	1	-	1	LS	STRUCTURAL PAINTING, SHOP APPLIED	513.25	-
		-	-	1	-	1	LS	STRUCTURAL PAINTING, FIELD APPLIED	513.30	-
		-	-	1	-	1	LS	CONTAINMENT & ENVIRONMENTAL PROTECTION, FIELD	513.36	-
		-	-	1	-	1	LS	SURFACE PREPARATION, SHOP	513.40	-
		-	-	1	-	1	LS	SURFACE PREPARATION, FIELD	513.41	-
		-	-	4	-	4	GAL	WATER REPELLENT, SILANE	514.10	-
		-	-	6	-	6	MFBM	STRUCTURAL LUMBER AND TIMBER, TREATED	522.25	-
		-	-	65	-	65	LF	METAL HAND RAILING	525.15	-
		-	-	110	-	110	CY	STONE FILL, TYPE II	613.11	-
		-	-	260	-	260	CY	STONE FILL, TYPE III	613.12	-
		-	-	-	2	2	EA	BOLLARDS	619.14	-
		-	-	-	195	195	LF	CHAIN-LINK FENCE, 6 FEET	620.12	3
		-	-	-	4	4	EA	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	620.21	-
		-	-	-	54	54	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	-
		-	-	-	2	2	EA	TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL	621.53	-
		-	-	-	2	2	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-
		1	-	-	-	1	LS	FIELD OFFICE, ENGINEERS	631.10	-
		1	-	-	-	1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-
		1	-	-	-	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
		1	-	-	-	1	LS	TESTING EQUIPMENT, PROTECTIVE COATINGS	631.18	-
		1	-	-	-	1	LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-
		-	-	-	1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
		-	-	-	1	1	LS	TRAFFIC CONTROL	641.10	-
		-	-	260	-	260	SY	GEOTEXTILE UNDER STONE FILL	649.31	-

[illegible][illegible]

QUANTITY SHEET 1

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/22/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 3 OF 26

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FILE NAME =us\8669\MTN\prefinal-submission\z02f136quan.dgn
DATE/TIME =1/22/2009
USER =2552
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Drawing Copyright © 2009

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QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible][illegible][illegible]

QUANTITY SHEET 2

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 4 OF 26



ITEM DETAIL SHEET

* PAY LENGTH INCLUDES ROUNDED W-BEAM END SECTION(S).
SEE STD. G-1D FOR DETAILS.

FILE NAME: j:\A\665\NSTN\prefinal_submission\2021136arc.dgn
DATE/TIME: 1/22/2009 1:22:20 PM
USER: J2552

I EPSC NARRATIVE

I.1PROJECT DESCRIPTION

THE PROPOSED PROJECT AREA IS LOCATED APPROXIMATELY 750 FT SOUTH OF VT. ROUTE 140 BETWEEN WALDO LANE AND THE WALLINGFORD TOWN PARK IN THE TOWN OF WALLINGFORD, RUTLAND COUNTY VERMONT. THIS PROJECT WILL INVOLVE THE INSTALLATION OF A REHABILITATED HISTORIC PONY TRUSS BRIDGE FOR USE AS A NEW PEDESTRIAN CROSSING OVER THE OTTER CREEK CONNECTING WALDO LANE WITH THE TOWN PARK. THE GENERAL WORK TO BE PERFORMED UNDER THIS PROJECT WILL INCLUDE THE REHABILITATION OF THE HISTORIC TRUSS BRIDGE OFF SITE, CONSTRUCTION OF NEW CONCRETE SUBSTRUCTURES AND APPROACHES ON SITE, THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE ON THE NEW SUBSTRUCTURE AND THE CONSTRUCTION OF A NEW SHARED USE PATH CONNECTING THE HISTORIC TRUSS BRIDGE TO WALDO LANE AND THE TOWN PARK.IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.3 ACRES INCLUDING THE IMPACTS ASSOCIATED WITH THE VEHICLE ACCESS ROUTE NECESSARY TO CONSTRUCT THIS BRIDGE.

I.2 SITE INVENTORY

I.2.1OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

WEST OF THE PROJECT AREA IS A STEEP, WOODED HILL THAT SLOPES DOWN TOWARD THE OTTER CREEK. ON THE EAST SIDE OF THE PROJECT AREA IS A MODERATELY FLAT GRASSSED AREA THAT IS USED AS RECREATION FIELDS BY THE TOWN OF WALLINGFORD. ALL STORMWATER RUNOFF IN THE VICINITY OF THE PROJECT AREA FLOWS OVERLAND INTO THE OTTER CREEK.

I.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE OTTER CREEK IS THE ONLY NATURAL WATER SOURCE LOCATED WITHIN THE VICINITY OF THE PROJECT SITE. THERE ARE NO OTHER DRAINAGE OR WATER FEATURES LOCATED WITHIN THE VICINITY OF THE PROJECT AREA.

I.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE EXISTING TOPOGRAPHY WITHIN THE PROJECT AREA PRIMARILY CONSISTS OF A MIXED VEGETATED LANDSCAPE OF A STEEPLY SLOPED DENSELY WOODED AREA ON THE WEST AND FAIRLY LEVEL SLOPED RECREATIONAL FIELDS ON THE EAST WHICH ARE SEPARATED BY THE OTTER CREEK.

I.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA PRIMARILY CONSISTS OF A DENSELY FORESTED AREA TO THE WEST AND A RESIDENTIAL AREA WITH GRASSSED RECREATIONAL FIELDS TO THE EAST. THERE IS ALSO A GRAVEL ROAD KNOWN AS WALDO LANE LOCATED ON THE WESTERN SIDE OF THE PROJECT AREA. THE IMPACTS TO EXISTING VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE PLACEMENT OF THE HISTORIC TRUSS BRIDGE AND SHARED USE PATH CONSTRUCTION.

I.2.5 SOILS

THE U.S. DEPARTMENT OF AGRICULTURE'S NATIONAL RESOURCE CONSERVATION SERVICE (NRCS) HAS IDENTIFIED AND MAPPED TWO SOIL TYPES WITHIN THE PROJECT AREA, ONE ON EACH SIDE OF THE OTTER CREEK. THE SOIL TYPE LOCATED TO THE WEST OF THE PROJECT AREA HAS NOT BEEN RATED FOR EROSION SUSCEPTIBILITY BUT THE SOIL TYPE LOCATED ON THE EASTERN SIDE OF THE PROJECT HAS BEEN CLASSIFIED AS POTENTIALLY HIGHLY ERODIBLE. THE FOLLOWING LIST DEPICTS THE ERODIBILITY PROPERTIES FOR THE TWO TYPES OF SOILS LOCATED WITHIN THE PROJECT AREA.

MAP UNIT TYPE*	DESCRIPTION	SLOPES (%)	ERODIBILITY	ERODIBILITY FACTOR (K)
13B	HINCKLEY GRAVELY LOAMY FINE SAND	0-8	POTENTIALLY HIGHLY ERODIBLE	0.17
96	UDIPSAMMENTS	NEARLY LEVEL	NOT RATED	0.10

*MAP UNIT TYPE IS FROM THE NRCS SOIL SURVEY MAP FOR RUTLAND COUNTY, VERMONT. SEE SHEET 10 FOR LOCATIONS OF MAPPED SOILS.

IN ADDITION, MAP UNIT TYPE 13B HAS BEEN CLASSIFIED BY THE NRCS AS PRIME FARMLAND OF STATEWIDE IMPORTANCE.

I.2.6 SENSITIVE RESOURCE AREAS

THERE ARE NO KNOWN OCCURRENCES OF CRITICAL HABITATS, THREATENED AND ENDANGERED SPECIES, OR HISTORICAL OR ARCHEOLOGICAL SITES LOCATED WITHIN THE LIMITS OF THE PROJECT AREA. HOWEVER, THE MAJORITY OF THE PROJECT AREA LIES WITHIN THE HINCKLEY GRAVELY LOAMY FINE SAND SOIL TYPE THAT IS CLASSIFIED AS FARMLAND OF STATEWIDE IMPORTANCE BY THE NRCS. IN ADDITION, THERE ARE NO KNOWN WETLANDS OR IMPAIRED WATERWAYS LOCATED WITHIN THE PROJECT AREA, BUT THE OTTER CREEK RECEIVING WATERS ADJACENT TO THE PROJECT AREA IS CONSIDERED A SENSITIVE RESOURCE. THE CONTRACTOR SHALL EMPLOY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT TO PROTECT THE WATER QUALITY OF THE OTTER CREEK AS OUTLINED IN THE EPSC PLANS FOR THIS PROJECT'S LOCATION. THE CONTRACTOR SHOULD NOTE THAT THERE IS A 50' RIPARIAN BUFFER ZONE ASSOCIATED WITH THE OTTER CREEK. THIS RIPARIAN BUFFER IS ILLUSTRATED ON THE PROJECT PLANS.

I.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF CONSTRUCTION GENERAL PERMIT 3-9020 BASED ON THE PROJECT IMPACT AREA. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THEN THE SELECTED CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL PERMITTING WITH VANR VIA FILING OF THE APPROPRIATE NOTICE OF INTENT UNDER THE CONSTRUCTION GENERAL PERMIT PROCESS.

I.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION CONTROLS.

PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION PREVENTION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE. THEREFORE, STABILIZE ALL DISTURBED AREAS AS SOON AS PRACTICAL BUT NO MORE THAN TWO DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION, USE, AND REMOVAL OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES WITH CONSTRUCTION ACTIVITIES TO ASSURE ECOLOGICAL, EFFECTIVE, AND CONTINUOUS EROSION PREVENTION AND SEDIMENT CONTROL. THE CONTRACTOR SHALL EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES AS CONSTRUCTION PROCEEDS.

THE CONTRACTOR SHALL INSTALL ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AS SHOWN IN THE EPSC PLANS OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. DO NOT MODIFY THE TYPE, SIZE, OR LOCATION OF ANY CONTROL OR PRACTICE WITHOUT APPROVAL FROM THE ON-SITE PLAN COORDINATOR.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO THE WATERS OF THE UNITED STATES FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO THE WATERS OF THE UNITED STATES ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH WOULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM THE WATERS OF THE UNITED STATES, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN STREAM WATER QUALITY. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF THE UNITED STATES, NOR SHALL WASHING FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLANDS OR WATERS OF THE UNITED STATES.

(REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR EACH PRACTICE REQUIRED ON THE PROJECT TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING.)

I.4.1MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING AND BARRIER FENCING WILL BE USED TO DELINEATE THE LIMITS IN WHICH THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT AND PERSONNEL. THESE MEASURES WILL LIMIT THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION. THE CONTRACTOR SHALL INSTALL THE PERIMETER CONTROLS PRIOR TO STARTING ANY WORK WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL NOT ALLOW ANY CONSTRUCTION EQUIPMENT TO OPERATE OR ACCESS ON THE DOWN SLOPE SIDE OF ANY PERIMETER CONTROL MEASURE. THE CONTRACTOR SHALL NOT ALLOW ANY CROSSING OF A FLOWING STREAM OR DISTURBANCE OF THE EXISTING STREAM BANKS BY CONSTRUCTION EQUIPMENT EXCEPT AS AUTHORIZED BY THE ON-SITE PLAN COORDINATOR.

I.4.2 LIMIT DISTURBANCE AREA

EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION ACTIVITIES PROCEED. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. IN GENERAL, PRESERVE EXISTING VEGETATION, TREES AND SHRUBS WHEN POSSIBLE, AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.3 STABILIZE CONSTRUCTION EXIT

THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE ALONG WITH AN ACCESS PATH AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION VEHICLES TO TRACK SEDIMENT OFFSITE OF THE PROJECT LIMITS. THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND THE AREA RESTORED IMMEDIATELY FOLLOWING COMPLETION OF THE PROJECT.

I.4.4 INSTALL WOVEN WIRE REINFORCED SILT FENCE

WOVEN WIRE REINFORCED SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS AS NECESSARY OR AS DIRECTED BY THE ON-SITE COORDINATOR.

I.4.5 DIVERT UPLAND RUNOFF

CONTROL ONLY SEDIMENT LADEN RUNOFF GENERATED FROM THE PROJECT SITE. IT IS NOT ANTICIPATED THAT TEMPORARY DRAINAGE SWALES WILL BE NEEDED TO DIVERT UPLAND RUNOFF AWAY FROM THE PROJECT. HOWEVER, IF SITE CONDITIONS CHANGE, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY DIVERSION DIKES OR SWALES PER THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.6 SLOW DOWN CHANNELIZED RUNOFF

IT IS NOT ANTICIPATED THAT THE CONTRACTOR WILL ENCOUNTER CHANNELIZED RUNOFF DURING THE CONSTRUCTION OF THIS PROJECT. HOWEVER, IF SITE CONDITIONS CHANGE, THE CONTRACTOR SHALL INSTALL TEMPORARY CHECK DAMS TO HELP SLOW DOWN AND CONTROL CHANNELIZED RUNOFF PER THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

I.4.7 CONSTRUCT PERMANENT CONTROLS

THE CONSTRUCTION OF THIS PROJECT WILL NOT REQUIRE THE USE OF PERMANENT CONTROLS UPON COMPLETION OF THE PROJECT. ALL EXPOSED SLOPES SHALL BE STABILIZED PRIOR TO THE COMPLETION OF THIS PROJECT.

I.4.8 STABILIZE EXPOSED SOILS

THE CONTRACTOR SHALL GRADE AND TRIM ALL SLOPES AS THE EXCAVATION PROGRESSES AND STABILIZE ALL SLOPES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN. THE CONTRACTOR SHALL HAVE A HYDRO SEEDER AND/OR MULCHING MACHINE AVAILABLE ON THE PROJECT SITE OR AVAILABLE AT ONE WEEK'S NOTICE (MAXIMUM) UNTIL PERMANENT SEEDING IS COMPLETED.

I.4.9 WINTER STABILIZATION

IF CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE CONTINUE PAST OCTOBER 15 OR BEGIN BEFORE APRIL 15, EPSC WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LOW RISK HANDBOOK FOR WINTER CONSTRUCTION.

I.4.10 STABILIZE SOIL AT FINAL GRADE

STONE FILL SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1-3 AS SHOWN IN THE PLANS. ALL OTHER EXPOSED SOIL SURFACES SHALL BE STABILIZED WITH SEED AND MULCH. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

I.4.11DE-WATERING ACTIVITIES

NO DE-WATERING ACTIVITIES ARE ANTICIPATED AS PART OF THIS PROJECT.

I.4.12 INSPECT YOUR SITE

INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES USED WITHIN THE PROJECT SITE SHALL BE INSPECTED ON A DAILY BASIS AND AFTER EVERY STORM GREAT ENOUGH TO CAUSE WATER TO LEAVE THE CONSTRUCTION SITE OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR. REPAIRS SHALL BE MADE AS NEEDED WHEN DAMAGE TO MEASURES ARE DISCOVERED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE CAPACITY OF A SEDIMENT CONTROL MEASURE APPROACHES ONE HALF OF ITS INTENDED CAPACITY OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR.

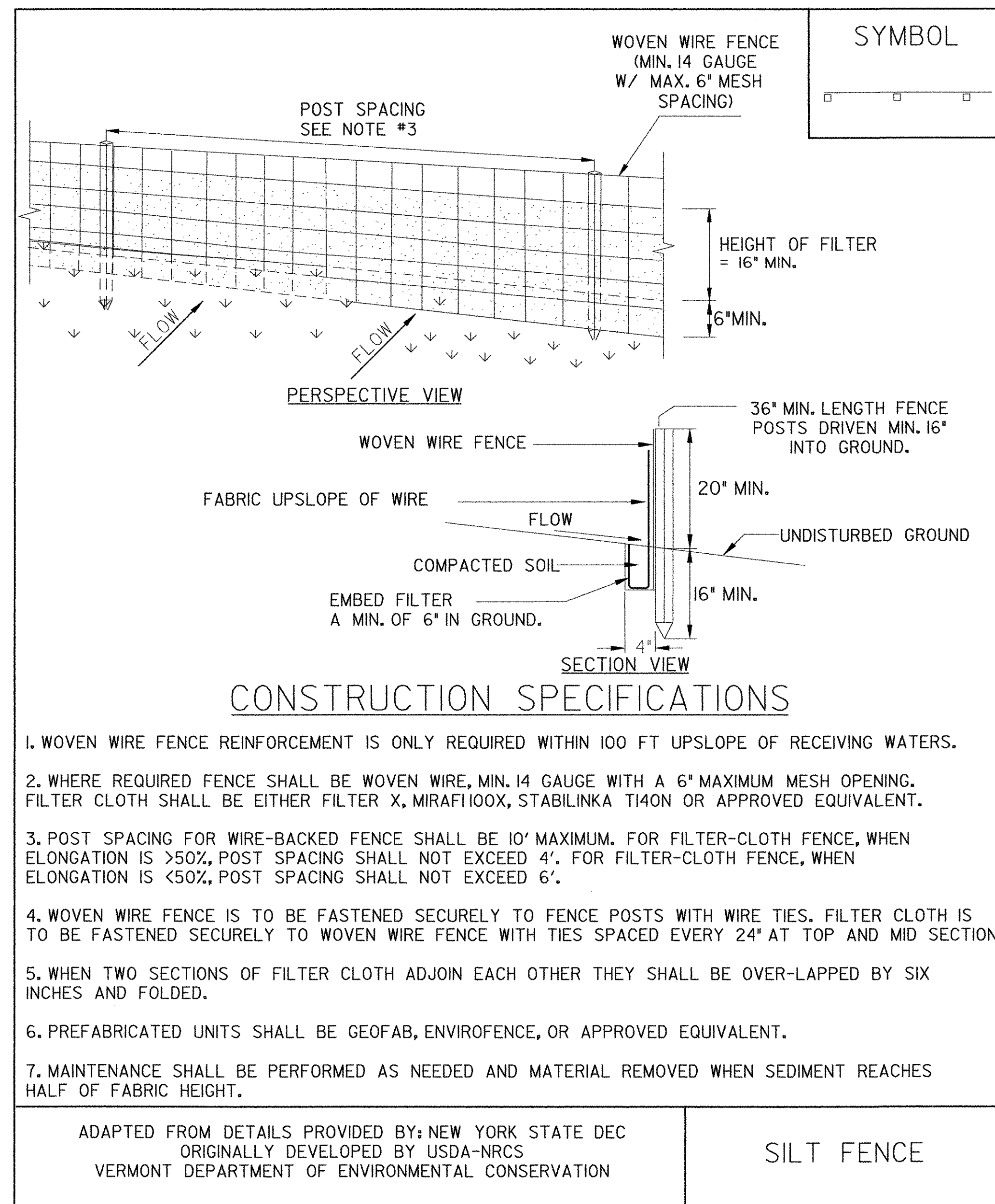
EPSC NARRATIVE

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

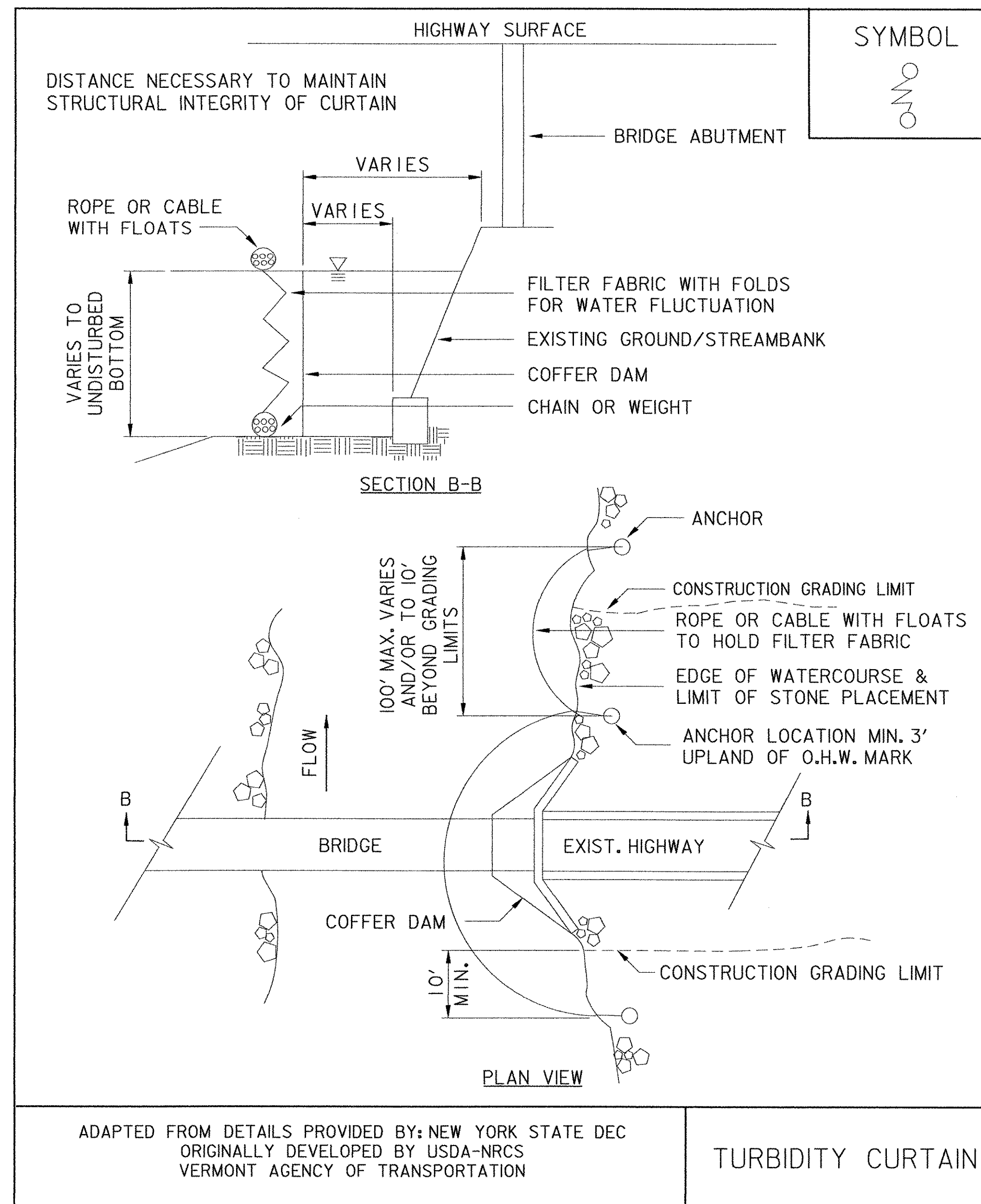
PLOT DATE: 1/22/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 7 OF 26





NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
649.51 GEOTEXTILE FOR SILT FENCE OR
649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED



NOTES:
THIS ITEM SHALL BE PAID FOR UNDER ITEM
649.61 GEOTEXTILE FOR FILTER CURTAIN

EPSC DETAIL SHEET 1

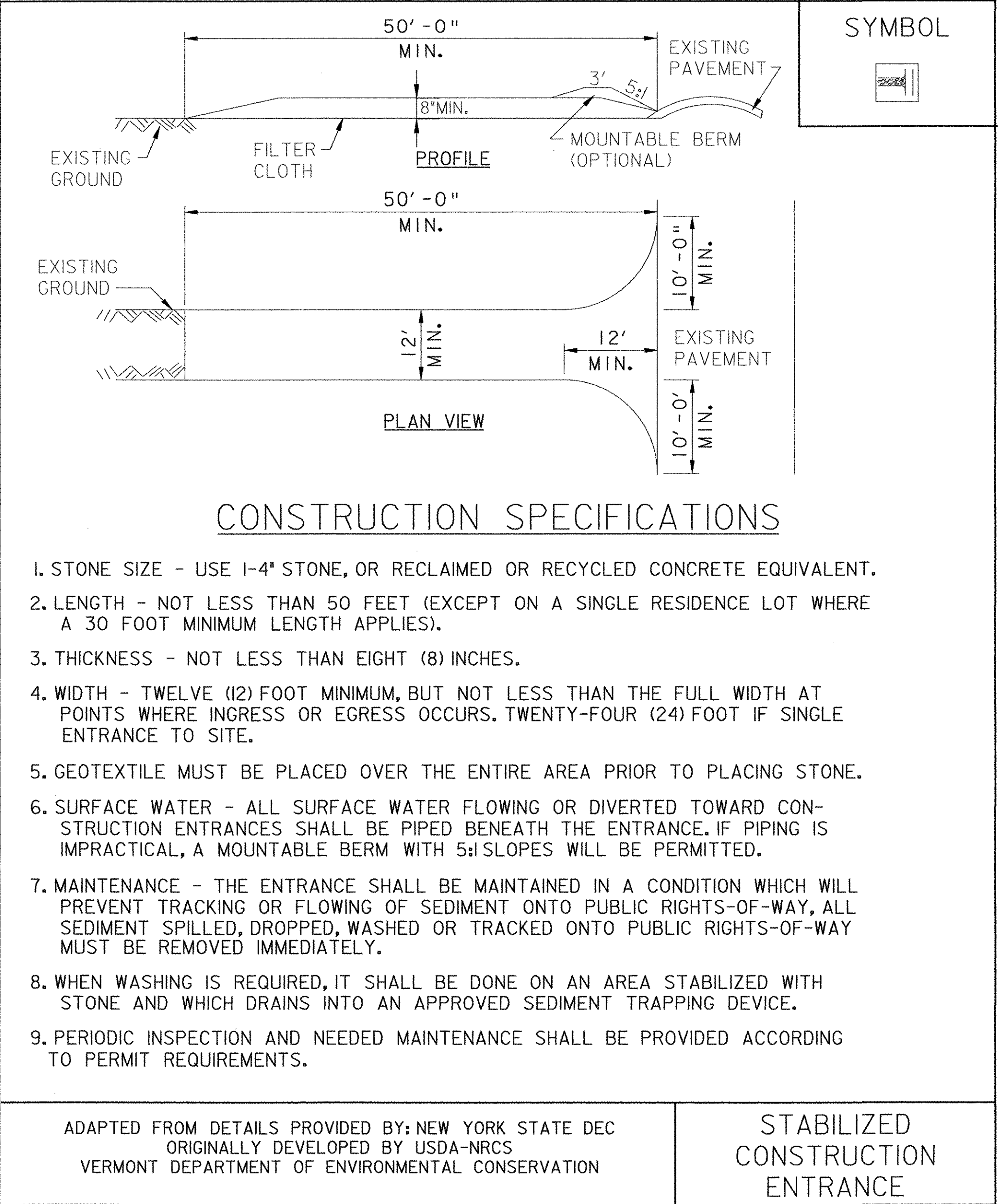
PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 8 OF 26



FILE NAME: j:\19669\STN\prefinal_submission\22f136a.dgn
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NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
653.35 VEHICLE TRACKING PAD

REVISIONS		
FEBRUARY 9, 2007	WHF	
MARCH 8, 2007	JMF	

EPSC DETAIL SHEET 2

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 9 OF 26



N/F THOMAS J. PHILLIPS AND KIMBERLY A. PHILLIPS
FROM EDWARD H. MOORE, JR.
BK. 83, PG. 459 MARCH 29TH, 2006
+/- 3.0 ACRES

N/F WALLINGFORD PARK ASSOCIATION

N/F TOWN OF
WALLINGFORD

WALDO LANE
(GRAVEL ROAD)

OTTER CREEK

DENSE WOODED
AREA

DENSE WOODED
AREA

PAVED
BASKETBALL
COURT

GRASSED BASEBALL
FIELDS

200' TOWN
WELL BUFFER

RESOURCE LEGEND

- (XX) SOIL MAP UNIT TYPE
- RIPARIAN BUFFER

EXISTING CONDITIONS PLAN

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 10 OF 26

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

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SCALE IN FEET

CHA

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DATE/TIME: 1/9/2009 1:25:52
USER: z2552

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (1992)

NOTE:

1. THE CONTRACTOR SHALL UTILIZE THE EXISTING GATE TO GAIN ACCESS TO THE PROJECT AREA. ANY MODIFICATIONS REQUIRED TO THE EXISTING FENCE SHALL BE APPROVED BY THE RESIDENT ENGINEER. ALL WORK ASSOCIATED WITH MODIFYING THE EXISTING GATE SHALL BE INCIDENTAL TO ITEM 653.35 VEHICLE TRACKING PAD.

653.35 VEHICLE TRACKING PAD
STA 2+92 RT, ACCESS PATH (82.0 CY)
653.55 PROJECT DEMARCATION FENCE
STA 2+92.0 RT, ACCESS PATH (250 LF)
STA 2+92.0 RT, ACCESS PATH (252 LF)

0 20 40
SCALE IN FEET



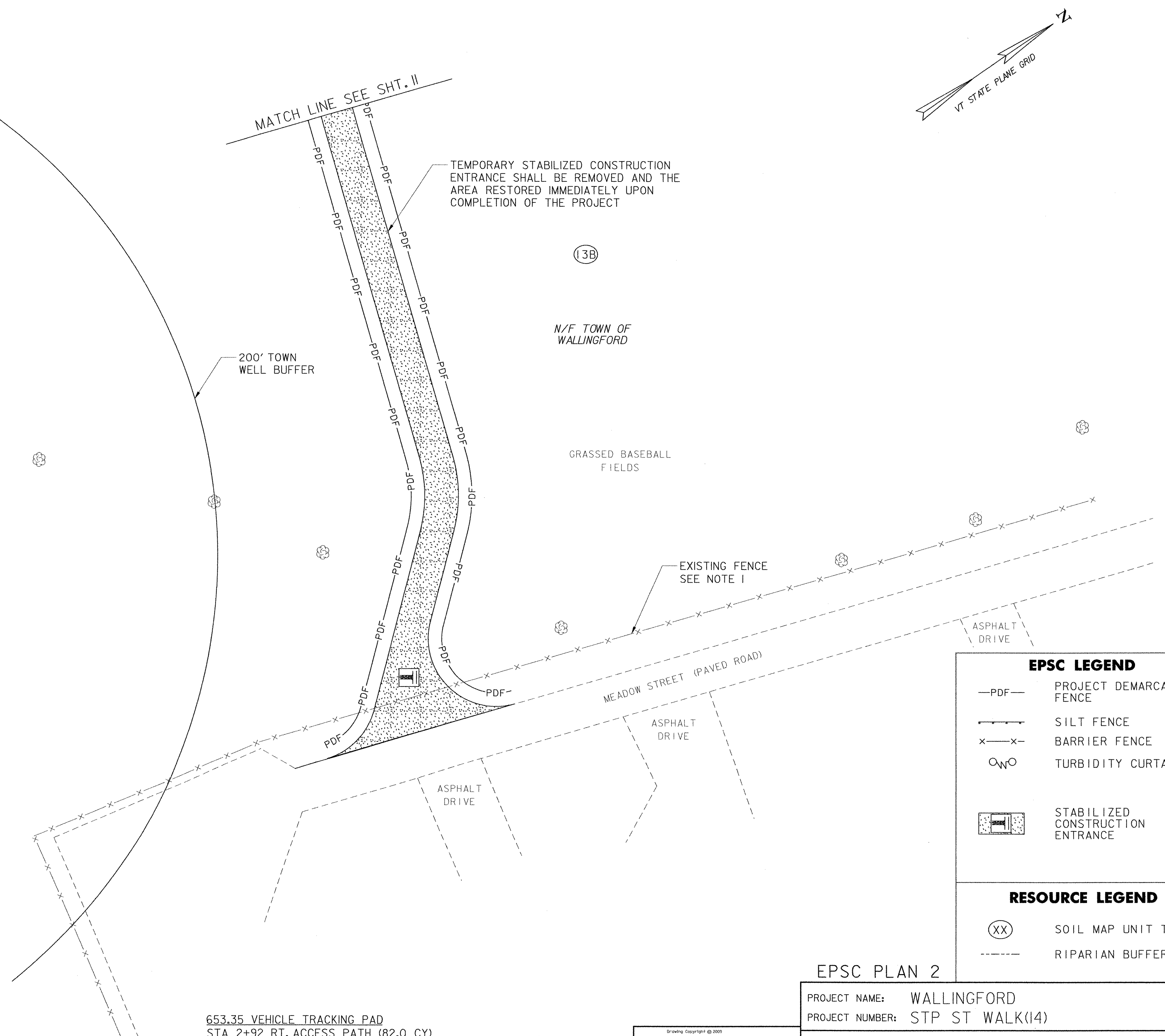
EPSC PLAN 2

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 12 OF 26

EPSC LEGEND	
—PDF—	PROJECT DEMARCATION FENCE
—x—x—	SILT FENCE
x—x—	BARRIER FENCE
○w○	TURBIDITY CURTAIN
	STABILIZED CONSTRUCTION ENTRANCE
RESOURCE LEGEND	
(XX)	SOIL MAP UNIT TYPE
----	RIPARIAN BUFFER



1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AND ITS LATEST REVISIONS, THE AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, AUGUST 1997, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, FUEL AND/OR LUBRICANTS INTO THE OTTER CREEK AS DIRECTED BY THE RESIDENT ENGINEER AND STANDARD SPECIFICATION SECTION 105.
3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL, AIR, GROUND AND WATER POLLUTION CONTROL REGULATIONS, HEALTH AND SAFETY REGULATIONS AND TRANSPORTATION REGULATIONS WHEN CLEANING, HANDLING, MOVING, PAINTING, CUTTING, WELDING, SANDING OR GRINDING ANY COATED OR TREATED MATERIAL. THE EXISTING STRUCTURAL STEEL IS PAINTED WITH A MATERIAL THAT MAY CONTAIN LEAD. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE REGULATIONS WHEN HANDLING AND WORKING WITH THIS STEEL. THE REMOVED STRUCTURAL STEEL WILL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE STATE, ITS OFFICERS AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE REMOVED STRUCTURAL STEEL.
4. THE CONTRACTOR SHALL CLOSE WALDO LANE WITHIN THE LIMITS OF THE TOWN OF WALLINGFORD'S PROPERTY DURING CONSTRUCTION, AND SHALL GIVE TWO WEEKS NOTICE TO THE TOWN BEFORE DOING SO. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE SIGNS AND BARRICADES LISTED BELOW ON WALDO LANE AND SUBMIT A SCHEMATIC DRAWING OF THE SIGN LOCATIONS TO THE RESIDENT ENGINEER FOR APPROVAL. PAYMENT FOR CONSTRUCTION SIGNING AND NECESSARY SUBMISSIONS FOR APPROVAL WILL BE MADE UNDER ITEM 641.00 TRAFFIC CONTROL.
 - "ROAD CLOSED AHEAD" SIGN - IMMEDIATELY SOUTH OF THE TRANSFER STATION (NEAR THE VT RT 140 INTERSECTION)
 - "ROAD CLOSED" SIGN - IMMEDIATELY NORTH OF THE PROJECT WITHIN THE TOWN'S PROPERTY LIMITS (JUST SOUTH OF THE TOWN'S PROPERTY BOUNDARY ABUTTING THE PHILLIPS' PARCEL) WITH TYPE III BARRICADES ACROSS THE FULL WIDTH OF ROAD
 - "ROAD CLOSED" SIGN - IMMEDIATELY SOUTH OF THE PROJECT WITH TYPE III BARRICADES ACROSS THE FULL WIDTH OF ROAD
 - "ROAD CLOSED - LOCAL TRAFFIC ONLY" SIGN - IMMEDIATELY NORTH OF THE US RT 7 INTERSECTION
5. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68°F, UNLESS SHOWN OTHERWISE.
6. THE FOLLOWING TABLE OF ALLOWABLE STRESSES APPLY TO THESE PLANS FOR DESIGN PURPOSES:

	STEEL PILING, ASTM A252, GRADE 2
F_y	35,000 PSI
F_b	19,250 PSI
F_a	8,750 PSI

	NEW STRUCTURAL STEEL (TRUSSES/FLOOR SYSTEM), AASHTO M-270 GRADE 50
F_y	50,000 PSI
F_b	27,500 PSI
F_v	16,500 PSI

	CONCRETE, HIGH PERFORMANCE, CLASS B
f'_c	3,500 PSI
f_c	1,400 PSI

	REINFORCING STEEL: F14,000 PSI GRADE 60
F_t	24,000 PSI
7. NO UTILITY ADJUSTMENTS ARE ANTICIPATED TO COMPLETE THIS BRIDGE PROJECT. SHOULD ADJUSTMENTS OF ANY EXISTING UTILITIES BE DESIRED, PROPER ARRANGEMENTS SHALL BE MADE IN CONFORMANCE WITH SUBSECTION 105.07 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
8. RECORD PLANS AND FABRICATION DRAWINGS FOR THE EXISTING TRUSSES ARE NOT AVAILABLE. THE CONTRACTOR MUST FIELD VERIFY DIMENSIONS TO ENSURE THE WORK CAN BE CONSTRUCTED AS PROPOSED IN THE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MATCH THE FINAL PRODUCT AS DESCRIBED IN THE PLANS WITH THE EXISTING FIELD CONDITION.

9. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID DISTURBING THE AREA WITHIN A 200 FOOT RADIUS OF THE TOWN WELL AS SHOWN ON SHTS.11 & 12. THIS INCLUDES PLACING EQUIPMENT, TRANSPORTING EQUIPMENT, EXCAVATING, OR WORK OF ANY KIND WITHIN THE LIMIT SHOWN.

STRUCTURAL STEEL NOTES:

1. ALL NEW STRUCTURAL STEEL SHALL BE AASHTO M270M/M270 GRADE 50 PAINTED EXCEPT AS SHOWN OTHERWISE. NEW STRUCTURAL STEEL FOR THE TRUSS FLOOR SYSTEM, BOTTOM LATERAL BRACING AND STRINGER CONNECTION ANGLES SHALL BE PAID FOR UNDER ITEM 506.50 STRUCTURAL STEEL, ROLLED BEAM.
2. ALL PREPARATION AND PAINTING OF NEW STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 513. ALL NEW STRUCTURAL STEEL PAID FOR UNDER ITEM 506.50 STRUCTURAL STEEL, ROLLED BEAM SHALL BE PREPARED AND PAINTED UNDER ITEM 513.40 SURFACE PREPARATION, SHOP AND ITEM 513.25 STRUCTURAL PAINTING, SHOP APPLIED, RESPECTIVELY. THE COLOR OF THE TOP COAT OF PAINT SHALL BE BLACK (FEDERAL COLOR CHIP NO. 27038). THE CONTRACTOR SHALL ENSURE COMPATIBILITY BETWEEN THE SHOP AND FIELD PAINT SYSTEMS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILING AND FIT-UP OF ALL NEW STRUCTURAL STEEL FABRICATION PLANS FOR ALL NEW STRUCTURAL STEEL SHALL BE SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL AS PER SECTION 506 OF THE STANDARD SPECIFICATIONS.
4. ALL FIELD CONNECTIONS SHALL BE MADE USING HIGH STRENGTH BOLTS MEETING AASHTO M164, TYPE 1 GALVANIZED. THE BOLTS SHALL RECEIVE AN INTERMEDIATE COAT OF PAINT, AS WELL AS A FINAL COAT AFTER INSTALLATION. ALL CONNECTIONS SHALL BE $\frac{3}{4}$ " BOLTS INSTALLED IN $\frac{1}{16}$ " HOLES UNLESS OTHERWISE NOTED. ANY CONNECTIONS NOT FULLY DETAILED IN THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
5. CVN TESTING WILL NOT BE REQUIRED FOR ANY STEEL MEMBERS ON THIS PROJECT. THE BOTTOM CHORD IS FRACTURE CRITICAL.
6. ALL MEMBERS SHALL BE PLACED WITH THE MILL CAMBER UP.
7. AN ORNAMENTAL PEDESTRIAN RAILING SHALL BE USED ON THE BRIDGE. DETAILS FOR FABRICATION OF THIS ORNAMENTAL RAIL ARE SHOWN ON SHT. 24. THIS WORK SHALL BE PAID FOR UNDER ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).

TRUSS REHABILITATION NOTES:

1. THE EXISTING TRUSSES ARE STORED IN A VAOT MAINTENANCE FACILITY IN CLARENDON, VERMONT OFF OF VT. ROUTE 7B. EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN PREPARED ASSUMING THE CONTRACTOR MAY PERFORM ALL TRUSS REHABILITATION AND PAINTING ACTIVITIES AT THIS YARD. THE SUBJECT TRUSSES ARE MARKED "T1" AND "T2" WITH WHITE PAINT. THE FOLLOWING WORK ITEMS ASSOCIATED WITH THE TRUSS REHABILITATION SHALL BE INCLUDED FOR LUMP SUM PAYMENT UNDER ITEM 900.645 SPECIAL PROVISION (INCORPORATING SALVAGED BRIDGE COMPONENTS):
 - RELOCATION OF OTHER STRUCTURES STOCKPILED IN THE VAOT MAINTENANCE FACILITY AS REQUIRED TO GAIN ACCESS TO THE SUBJECT TRUSSES
 - SHORING OF EXISTING TRUSSES AND CONSTRUCTION OF STAGING AS REQUIRED TO PERFORM THE WORK AS SHOWN ON THE PLANS
 - REMOVAL AND DISPOSAL OF EXISTING STEEL ATTACHED TO TRUSSES WHICH ARE NOT REQUIRED IN THE PROPOSED STRUCTURE (END SECTIONS OF ORIGINAL FLOORBEAMS AND RAILING CONNECTION PLATES)
 - MACHINE BRONZE BEARING PLATES ON EXISTING EXPANSION BEARING PEDESTALS AND BRIDGE SHOES AT JOINT L0. INSTALL REHABILITATED BEARING PEDESTALS ON PROPOSED SUBSTRUCTURES
 - LOADING AND HAULING OF THE TRUSSES AND ALL COMPONENTS FROM THE VAOT MAINTENANCE FACILITY TO THE PROJECT SITE
 - UNLOADING OF THE TRUSSES AT THE PROJECT SITE, ASSEMBLY OF FIELD SPLICES, RIGGING AND ERECTION OF THE TRUSSES ON NEW SUBSTRUCTURES
2. THE CONTRACTOR SHALL USE GREAT CARE IN LIFTING, MOVING, AND TRANSPORTING THE SUBJECT MEMBERS, OR ANY OTHER STOCKPILED TRUSSES. LIFTING OF TRUSSES FROM ANYWHERE ON THE BOTTOM CHORD, OR WITHIN THE MIDDLE THIRD OF THE TOP CHORD SHALL BE AVOIDED. ANY DAMAGE TO ANY MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE RESIDENT ENGINEER AT THE CONTRACTOR'S EXPENSE.

3. ANY NECESSARY SHORING OF THE TRUSSES SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 506 AND SHALL BE PAID FOR UNDER ITEM 900.645. THE CONTRACTOR SHALL TAKE CARE SUCH THAT THE TRUSSES REMAIN STABLE DURING ALL REPAIR WORK TO TRUSS MEMBERS.

4. TO ENSURE THE FAYING SURFACES OF THE REHABILITATED TRUSS JOINTS ARE WELL PREPARED AND THE JOINTS WELL PROTECTED, THE FOLLOWING TRUSS REHABILITATION SEQUENCING HAS BEEN PROVIDED:

- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING TRUSS COMPONENTS/MEMBERS DESIGNATED ON THE PLANS FOR REPLACEMENT. REMOVAL AND DISPOSAL OF EXISTING TRUSS COMPONENTS/MEMBERS SHALL BE INCIDENTAL TO ITEM 506.60 STRUCTURAL STEEL.
- THE CONTRACTOR SHALL PREPARE THE SURFACES OF THE RETAINED TRUSS COMPONENTS/MEMBERS UNDER ITEM 513.36 CONTAINMENT AND ENVIRONMENTAL PROTECTION, FIELD AND ITEM 513.41 SURFACE PREPARATION, FIELD. SURFACES SHALL BE PREPARED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 513.04.
- THE CONTRACTOR SHALL APPLY THE PRIME COAT TO THE PREPARED SURFACES OF THE RETAINED TRUSS COMPONENTS/MEMBERS UNDER ITEM 513.30 STRUCTURAL PAINTING, FIELD APPLIED.
- THE RESIDENT ENGINEER SHALL INSPECT THE RETAINED TRUSS COMPONENTS/MEMBERS FOR SIGNIFICANT SECTION LOSS OR DAMAGE. COMPONENTS/MEMBERS THAT HAVE MORE THAN 15% SECTION LOSS AT ANY CROSS SECTION SHALL BE RE-EVALUATED FOR REPLACEMENT OR REPAIR AT THE RESIDENT ENGINEER'S DISCRETION.
- THE RESIDENT ENGINEER SHALL CONTACT THE STRUCTURES ENGINEER FOR FURTHER REPAIR RECOMMENDATIONS OF ANY TRUSS COMPONENTS/MEMBERS NOTED DURING THE INSPECTION PROCESS.
- THE CONTRACTOR SHALL INSTALL THE NEW STRUCTURAL STEEL REQUIRED FOR THE REPLACEMENT OF EXISTING TRUSS COMPONENTS/MEMBERS, AS DESIGNATED ON THE PLANS, OR AS ORDERED BY THE RESIDENT ENGINEER, UNDER ITEM 506.60 STRUCTURAL STEEL. PRIOR TO INSTALLATION, THE SURFACES OF THE REPLACEMENT STEEL WILL BE CLEANED TO BARE METAL UNDER ITEM 513.41 SURFACE PREPARATION, FIELD AND RECEIVE A PRIME COAT UNDER ITEM 513.30 STRUCTURAL PAINTING, FIELD APPLIED.
- WITH THE FLOOR BEAM CONNECTION AREAS MASKED, THE CONTRACTOR SHALL APPLY THE INTERMEDIATE AND TOP COATS TO THE ENTIRE TRUSS UNDER ITEM 513.30 STRUCTURAL PAINTING, FIELD APPLIED. THE COLOR OF THE TOP COAT OF PAINT SHALL BE BLACK (FEDERAL COLOR CHIP NO. 27038).

5. ALL CONNECTIONS ON THE TRUSS ARE BELIEVED TO BE $\frac{3}{4}$ " DIAMETER RIVETS IN $\frac{1}{16}$ " HOLES. THE CONTRACTOR SHALL VERIFY DIAMETER OF ACTUAL RIVET OR BOLT SIZE BEFORE ORDERING REPLACEMENTS.

6. ALL RIVETS REMOVED FROM THE TRUSS SHALL BE REPLACED WITH EQUIVALENT DIAMETER BOLTS MEETING AASHTO M-164, TYPE 1 GALVANIZED. HEX HEADED BOLTS SHALL BE USED THROUGHOUT. PAYMENT FOR RIVET REMOVAL AND REPLACEMENT WITH BOLTS AT CONNECTIONS WHERE EXISTING STEEL IS TO BE REPLACED UNDER 506.60 SHALL BE INCIDENTAL TO ITEM 506.60. REMOVAL OF DETERIORATED RIVETS AND REPLACEMENT WITH BOLTS AT LOCATIONS (AS DETERMINED BY THE RESIDENT ENGINEER) WHERE EXISTING STEEL IS NOT REPLACED SHALL BE PAID UNDER ITEM 900.620 SPECIAL PROVISION (THROUGH TRUSS RIVET REPLACEMENT).

7. THE CONTRACTOR IS REMINDED THAT ALL HARDWARE FOR CONNECTIONS IS NOT PAID FOR DIRECTLY BUT IS CONSIDERED INCIDENTAL TO ITEM 506.50 STRUCTURAL STEEL. ROLLED BEAM AND ITEM 506.60 STRUCTURAL STEEL THE CONTRACTOR SHALL MAKE A DETAILED COUNT OF ALL HARDWARE NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS. BOLT LENGTHS SHALL BE FIELD VERIFIED BY THE CONTRACTOR TO HAVE SUFFICIENT THREAD LENGTH TO PROPERLY TORQUE.

8. ANCHOR BOLTS FOR THE TRUSS AT THE EXPANSION ABUTMENT WILL HAVE AN $\frac{1}{8}$ " GAP BETWEEN THE BOTTOM OF THE NUT AND THE TOP OF THE WASHER. THE CONTRACTOR SHALL BURR THE THREADS ON ALL ANCHOR BOLTS TO PREVENT REMOVAL OF THE NUTS.

9. THE EXISTING BEARING PEDESTALS ARE STOCKPILED AT THE VAOT MAINTENANCE FACILITY. THE PEDESTALS SHALL BE BLAST CLEANED UNDER ITEM 513.41 SURFACE PREPARATION, FIELD AND PAINTED UNDER ITEM 513.30 STRUCTURAL PAINTING, FIELD APPLIED. THE REHABILITATED BEARINGS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 531 AND PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (INCORPORATING SALVAGED BRIDGE COMPONENTS). CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE BRONZE BEARING PLATES DURING BLAST CLEANING OPERATIONS.

10. THE CONTRACTOR SHALL INSTALL A PLAQUE AT THE LOCATION SHOWN ON SHT.18. THE AGENCY WILL PROVIDE THE PLAQUE AND HARDWARE. A GASKET SHALL BE INSTALLED BETWEEN THE PLAQUE AND THE TRUSS. BOLT SLEEVES SHALL BE USED. ALL WORK REQUIRED TO INSTALL THE PLAQUE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TIMBER NOTES:

1. ITEM 522.25 STRUCTURAL LUMBER AND TIMBER, TREATED IS FOR ALL THE WORK ASSOCIATED WITH THE LUMBER AND TIMBER NECESSARY TO CONSTRUCT THE BRIDGE DECK AND CURBING AS DETAILED IN THE PLANS, INCLUDING BUT NOT LIMITED TO CUTTING, DRILLING, TIMBER CONNECTORS, HARDWARE AND JOINT SEALER.
2. TIMBER CURB AND TIMBER CURB SUPPORT MATERIAL SHALL BE DRESSED SIZE 6"x6" SOUTHERN PINE, SELECT STRUCTURAL OR BETTER.
3. SOUTHERN DECK PLANK MATERIAL SHALL BE DRESSED SIZE 4"x12" SOUTHERN PINE, NO. 2 OR BETTER. A 1/4" GAP SHALL BE MAINTAINED BETWEEN PLANKS.
4. ALL BOLTS IN THE TIMBER CURB AND TIMBER DECK SHALL MEET ASTM A-307 GALVANIZED. BOLTS SHALL BE TIGHTENED SNUGLY, BUT NOT SO TIGHTLY AS TO CAUSE CRUSHING OF THE WOOD UNDER THE WASHER OR C-CLIP.
5. ALL BOLT HOLES IN WOOD SHALL BE THE SAME DIAMETER AS THE BOLT.

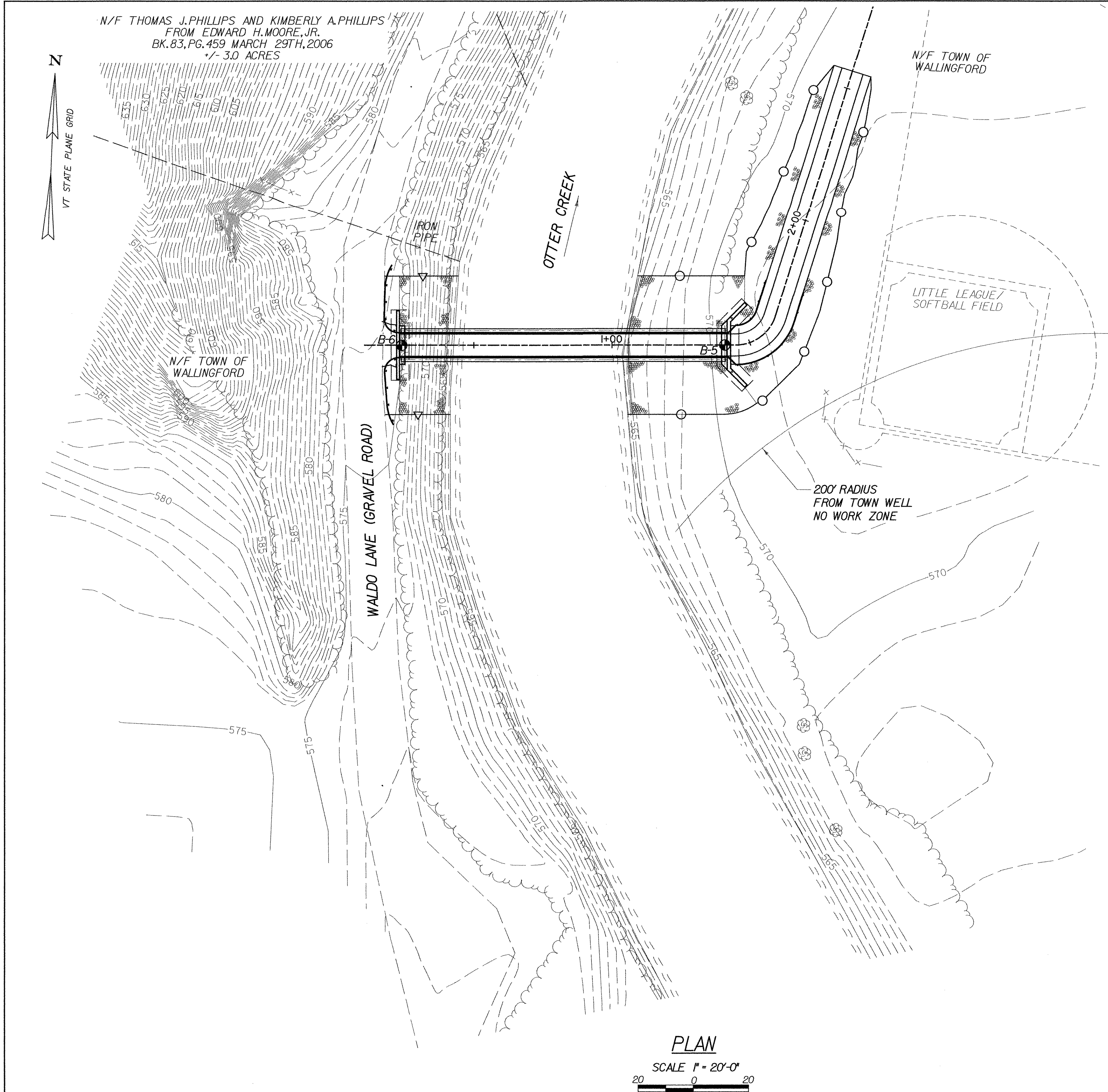
CONCRETE NOTES:

1. FOR BOTH ABUTMENTS 1 AND 2, CONCRETE PORTIONS OF THE ABUTMENTS AND WINGWALLS ABOVE ADJACENT BRIDGE SEAT ELEVATIONS SHALL NOT BE PLACED UNTIL THE STRUCTURAL STEEL HAS BEEN SET AND FINISHED GRADE DETERMINED BY THE RESIDENT ENGINEER.
2. ITEM 514.10 WATER REPELLENT, SILANE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
3. SURFACES OF BRIDGE SEAT AREAS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 1/4" PER FOOT TOWARDS MID-SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE MAGNESIUM FLOAT FINISHED.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1".
5. REINFORCING PLACEMENT TOLERANCES: SPACING +/- 1" CLEARANCE +/- 1/4"
6. THE KEY IN THE CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. UPWARD KEYS SHALL BE APPROVED BY THE RESIDENT ENGINEER AND PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.

1. ALL PIPE PILING INSTALLED UNDER ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED 12 $\frac{3}{4}$ " O.D. X $\frac{3}{8}$ " PIPE) SHALL BE FILLED WITH HIGH PERFORMANCE CONCRETE, CLASS B. PAYMENT FOR HPC, CLASS B TO FILL PIPES SHALL BE INCIDENTAL TO ITEM 900.640.
2. ALL PIPE PILING SHALL BE FITTED WITH A CONICAL DRIVING POINT ATTACHMENT. DRIVING POINTS SHALL BE ASTM A-27 GRADE 65/35.
3. PIPE PILING SHALL BE SPLICED, IF REQUIRED, AS SHOWN ON SHT. 22. PROPRIETARY SPLICING SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL BY THE STRUCTURES ENGINEER. PAYMENT FOR SPLICING INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED 12 $\frac{3}{4}$ " X $\frac{3}{8}$ " PIPE)

PROJECT NAME:	WALLINGFORD	
PROJECT NUMBER:	STP ST WALK(14)	
FILE NAME: \$FILES\$	PLOT DATE: 1/9/2009	
PROJECT MANAGER: SUSAN SCRIBNER	DRAWN BY: W. WEATHERBY	
DESIGNED BY: L. HARDEN	CHECKED BY: P. HALSTEAD	
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD	SHEET 13 OF 26	

FILE NAME: \\a9659\west\pref\mal_submission\202136boringinfo.dgn
DATE/TIME: 1/9/2009
USER: 2652



SAMP./CORE NUMBER	SAMP. ADV. (ft) LEN. CORE (ft)	RECOVERY (%)	Blows per 6" on Split Spoon Sampler	"N" VALUE OR RQD %	DEPTH (feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (feet)	Remarks on Character of Drilling, water return, etc	WATER LEVELS AND/OR WELL DATA
S1	2.0	1.8	2-3-4-5	7			f. SAND, Some Silt, trace f. gravel, brown, loose, moist (A-2-4)	100		
R1	2.0	2.0	N/A	88%			Mica SCHIST, gray, soft, slightly weathered, closely fractured, good RQD	101		

- SUBSURFACE LOGS PRESENT MATERIAL CLASSIFICATIONS, TEST DATA, AND OBSERVATIONS FROM SUBSURFACE INVESTIGATIONS AT THE SUBJECT SITE AS REPORTED BY THE INSPECTING GEOLOGIST OR ENGINEER. IN SOME CASES, THE CLASSIFICATIONS MAY BE MADE BASED ON LABORATORY TEST DATA WHEN AVAILABLE. IT SHOULD BE NOTED THAT THE INVESTIGATION PROCEDURES ONLY RECOVER A SMALL PORTION OF THE SUBSURFACE MATERIALS AT THE SITE. THEREFORE, ACTUAL CONDITIONS BETWEEN BORINGS AND SAMPLED INTERVALS MAY DIFFER FROM THOSE PRESENTED ON THE SUBSURFACE LOGS. THE INFORMATION PRESENTED ON THE LOGS PROVIDE A BASIS FOR AN EVALUATION OF THE SUBSURFACE CONDITIONS AND MAY INDICATE THE NEED FOR ADDITIONAL EXPLORATION. ANY EVALUATION OF THE CONDITIONS REPORTED ON THE LOGS MUST BE PERFORMED BY PROFESSIONAL ENGINEERS OR GEOLOGISTS.
- SAMP./CORE NUMBER** - SAMPLES ARE NUMBERED FOR IDENTIFICATION ON CONTAINERS, LABORATORY REPORTS OR IN TEXT REPORTS.
 - SAMP. ADV./LEN. CORE** - LENGTH OF SAMPLER ADVANCE OR LENGTH OF CORING RUN MEASURED IN FEET.
 - RECOVERY** - AMOUNT OF SAMPLE ACTUALLY RECOVERED AFTER WITHDRAWING SAMPLER OR CORE BARREL FROM BORE HOLE MEASURED IN FEET.
 - SAMPLE BLOWS/6"** - UNLESS OTHERWISE NOTED, BLOW COUNTS REPRESENT VALUES OBTAINED BY DRIVING A 2.0" (O.D.), 1-3/8" (I.D.) SPLIT SPOON SAMPLER INTO THE SUBSURFACE STRATA WITH A 140 POUND WEIGHT FALLING 30" AS PER ASTM D 1586. AFTER AN INITIAL PENETRATION OF 6" TO SEAT THE SAMPLER INTO UNDISTURBED MATERIAL, THE SAMPLER IS THEN DRIVEN AN ADDITIONAL 2 OR 3 SIX INCH INCREMENTS.
 - "N" VALUE OR RQD %** - "N" VALUE - THE SUM OF THE SECOND AND THIRD SAMPLE BLOW INCREMENTS IS GENERALLY TERMED THE STANDARD PENETRATION TEST (SPT) "N" VALUE. CORE RQD - CORE ROCK QUALITY DESIGNATION, RQD, IS DEFINED AS THE SUMMED LENGTH OF ALL PIECES OF CORE EQUAL TO OR LONGER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF THE CORING RUN. FRESH, IRREGULAR BREAKS DISTINGUISHABLE AS BEING CAUSED BY DRILLING OR RECOVERY OPERATIONS ARE IGNORED AND THE PIECES ARE COUNTED AS INTACT LENGTHS. RQD VALUES ARE VALID ONLY FOR CORES OBTAINED WITH NX SIZE CORE BARRELS.
 - SAMPLE** - GRAPHICAL PRESENTATION OF SAMPLE TYPE AND ADVANCE OR CORE RUN LENGTH. SEE TABLE 1, SHT. 15.
 - DEPTH** - DEPTH AS MEASURED FROM THE GROUND SURFACE IN FEET.
 - GRAPHICS** - GRAPHICAL PRESENTATION OF SUBSURFACE MATERIALS. SEE TABLE 4, SHT. 15. DUAL SOIL CLASSIFICATION AND ROCK GRAPHICS MAY VARY AND ARE NOT SHOWN ON TABLE 4, SHT. 15.
 - DESCRIPTION AND CLASSIFICATION** - SOIL - RECOVERED SAMPLES ARE VISUALLY CLASSIFIED IN THE FIELD BY THE SUPERVISING GEOLOGIST OR ENGINEER UNLESS OTHERWISE NOTED. PARTICLE SIZE AND PLASTICITY CLASSIFICATION IS BASED ON FIELD OBSERVATIONS, AND USING THE AASHTO SOIL CLASSIFICATION SYSTEM. SEE TABLE 4, SHT. 15. AASHTO SYMBOLS ARE PRESENTED IN PARENTHESES FOLLOWING THE SOIL DESCRIPTION. WHERE NECESSARY, DUAL SYMBOLS MAY BE USED FOR COMBINATIONS OF SOIL TYPES. RELATIVE PROPORTIONS, BY WEIGHT AND/OR PLASTICITY, ARE DESCRIBED IN GENERAL ACCORDANCE WITH "SUGGESTED METHODS OF TEST FOR IDENTIFICATION OF SOILS" BY D.M. BURMISTER, ASTM SPECIAL PUBLICATION 479.6-1970. SEE TABLE 2, SHT. 15. SOIL DENSITY OR CONSISTENCY DESCRIPTION IS BASED ON THE PENETRATION RESISTANCE. SEE TABLE 3, SHT. 15. SOIL MOISTURE DESCRIPTION IS BASED ON THE OBSERVED WETNESS OF THE SOIL RECOVERED BEING DRY, MOIST, WET, OR SATURATED. WATER INTRODUCED INTO THE BORING DURING DRILLING MAY AFFECT THE MOISTURE CONTENT OF THE MATERIALS. OTHER GEOLOGIC TERMS MAY ALSO BE USED TO FURTHER DESCRIBE THE SUBSURFACE MATERIALS. ROCK - ROCK CORE DESCRIPTIONS ARE BASED ON THE INSPECTOR'S OBSERVATIONS AND MAY BE EXAMINED AND DESCRIBED IN GREATER DETAIL BY THE PROJECT ENGINEER OR GEOLOGIST. TERMS USED IN THE DESCRIPTION OF ROCK CORE ARE PRESENTED IN TABLE 5, SHT. 15.
 - DIVISION LINES** - DIVISION LINES BETWEEN DEPOSITS ARE BASED ON FIELD OBSERVATIONS AND CHANGES IN RECOVERED MATERIAL. SOLID LINES DEPICT CONTACTS BETWEEN TWO DEPOSITS OF DIFFERENT GEOLOGIC DEPOSITIONAL ENVIRONMENT OF KNOWN ELEVATION. DASHED LINES REPRESENT ESTIMATED ELEVATION OF CONTACTS BETWEEN TWO DEPOSITS OF DIFFERENT GEOLOGIC DEPOSITIONAL ENVIRONMENT. DOTTED LINES DEPICT TRANSITIONS OF DEPOSITS WITHIN THE SAME DEPOSITIONAL ENVIRONMENT, SUCH AS GRAIN SIZE OR DENSITY.
 - ELEVATION** - ELEVATION OF STRATA CHANGES IN FEET.
 - REMARKS** - MISCELLANEOUS OBSERVATIONS.
 - WATER LEVELS & WELL DATA** - HOLLOW WATER LEVEL SYMBOL, IF PRESENT, REPRESENTS LEVEL AT WHICH FIRST SATURATED SAMPLE OR WATER LEVEL WAS ENCOUNTERED. SOLID WATER LEVEL SYMBOL, IF PRESENT, DEPICTS THE MOST PROBABLE STATIC WATER ELEVATION AT THE TIME OF DRILLING OR AS MEASURED IN AN INSTALLED OBSERVATION WELL AT A LATER DATE. SUBSURFACE WATER CONDITIONS ARE INFLUENCED BY FACTORS SUCH AS PRECIPITATION, STRATIGRAPHIC COMPOSITION, AND DRILLING/CORING METHODS. CONDITIONS AT OTHER TIMES MAY DIFFER FROM THOSE DESCRIBED ON THE LOGS. FOR GRAPHICAL PRESENTATION OF OBSERVATION/MONITORING WELL CONSTRUCTION, SEE TABLE 6, SHT. 15. ELEVATIONS OF CHANGES IN CONSTRUCTION ARE NOTED AT THE BOTTOM OF EACH SECTION.

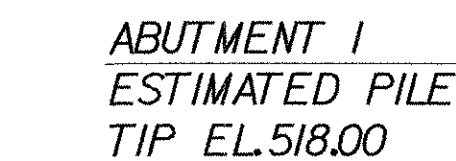
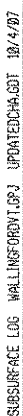
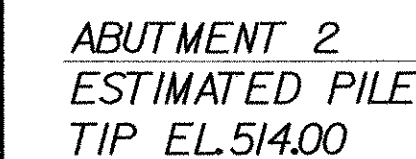
BORING INFORMATION

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(I4)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

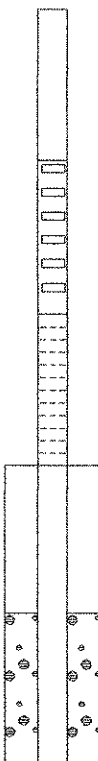
PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 14 OF 26

CHA

COARSE GRAINED SOILSFINE GRAINED SOILS:

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CHIA

TABLE 6 WELL CONSTRUCTION	
	SOLID PVC PIPE SCREENED PVC PIPE STAINLESS STEEL SCREENED PIPE FINE GRAINED WASHED SAND WASHED SAND
	BENTONITE PLUG AIR ENTRAINED CEMENT NATURAL SOIL/ ROCK FILL BENTONITE/ CEMENT GROUT

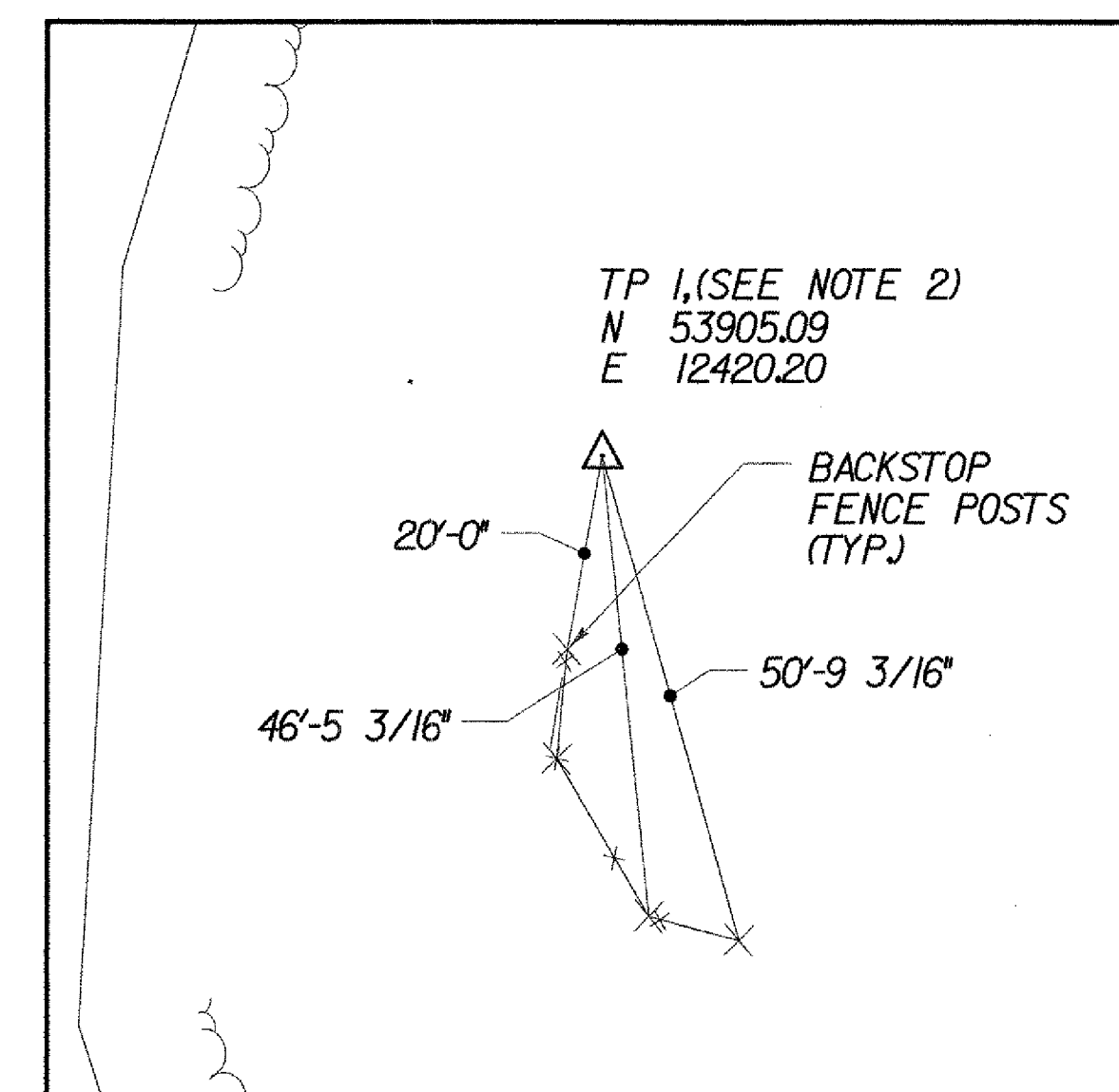
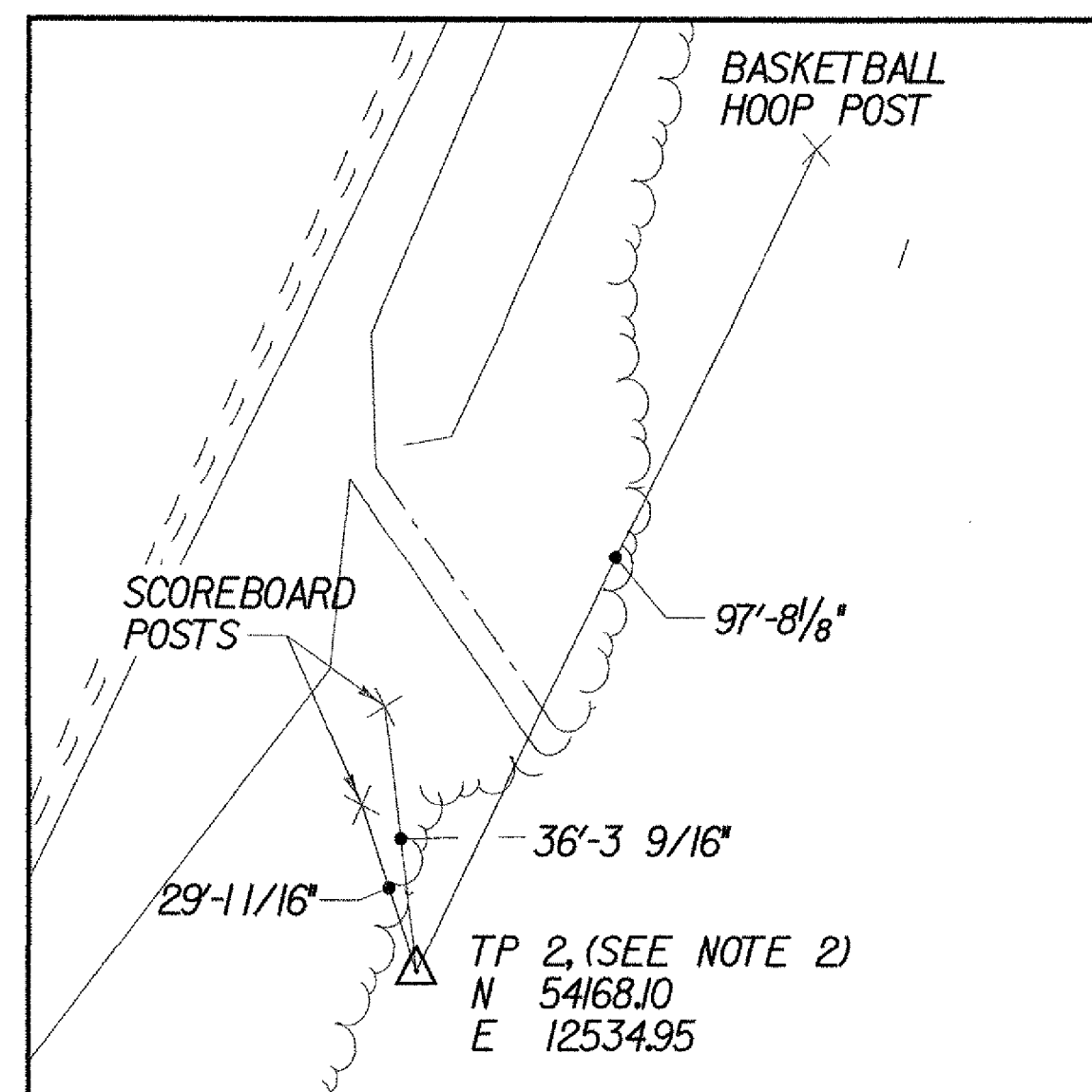
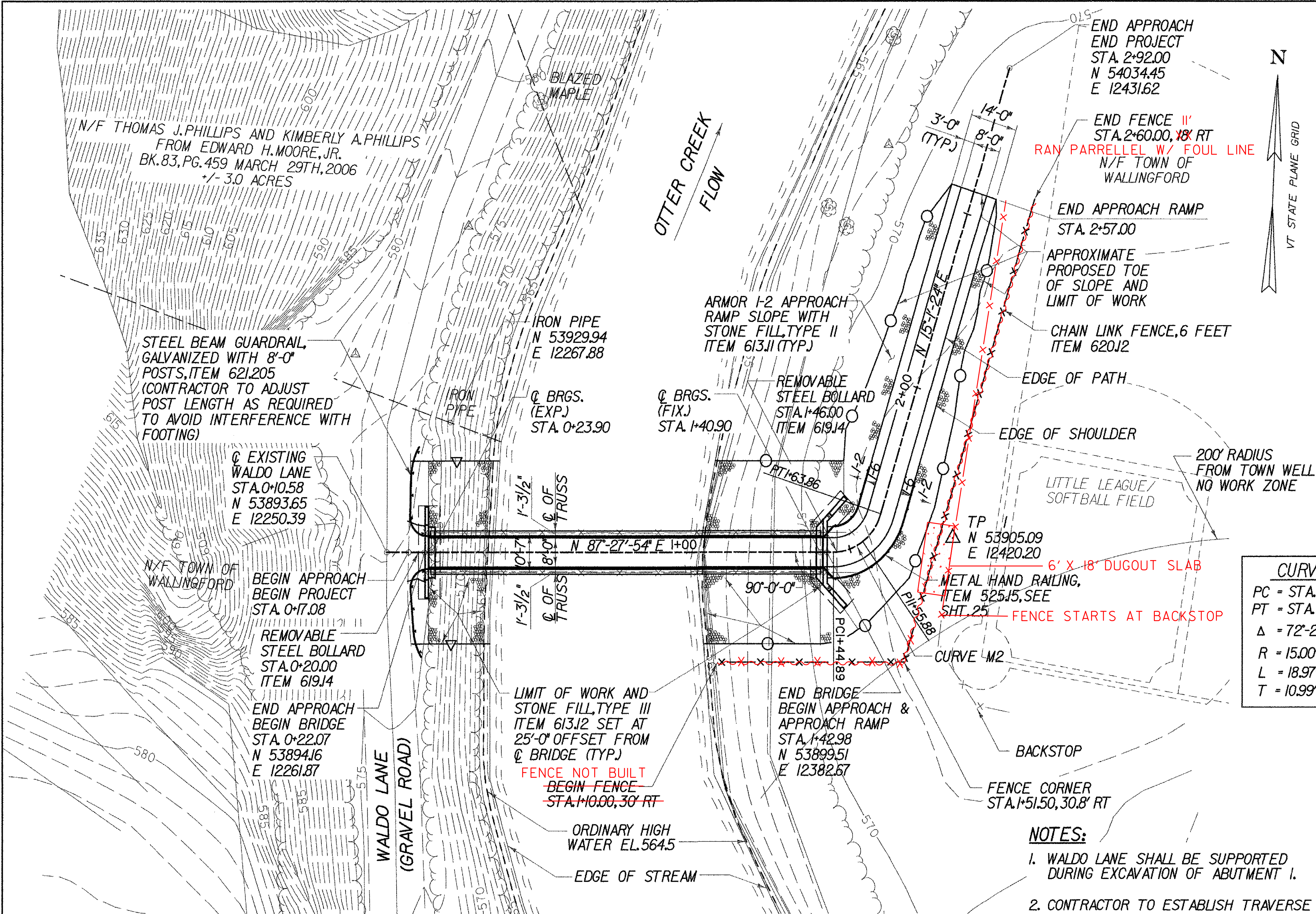
BEDDING:		FRACTURE SPACING:		RQD:	
Massive	> 40"	Massive/V. Wide	> 6'	Excellent	> 90%
Thick	12' - 40"	Thick/Wide	2' - 6'	Good	76% - 90%
Medium	4' - 12"	Med./Med.	8' - 24'	Fair	51% - 75%
Thin	< 4'	Thin/Close	2 1/2' - 8'	Poor	25% - 50%
		V. Thin/V. Close	< 2 1/2"	V. Poor	< 25%

BORING LOGS

PROJECT NUMBER: STP ST WALK(14)

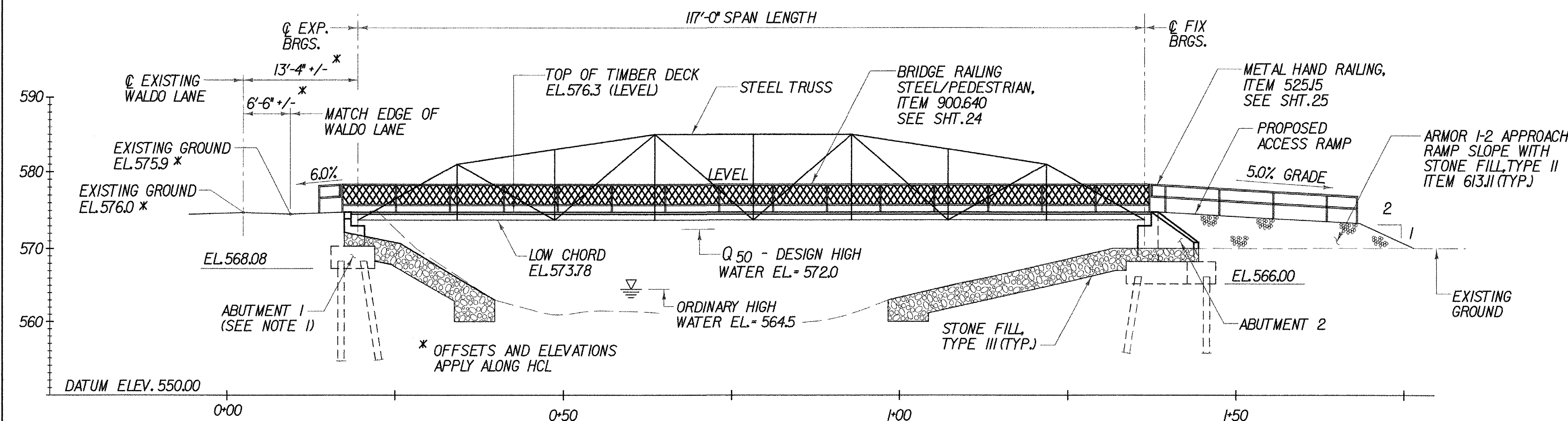
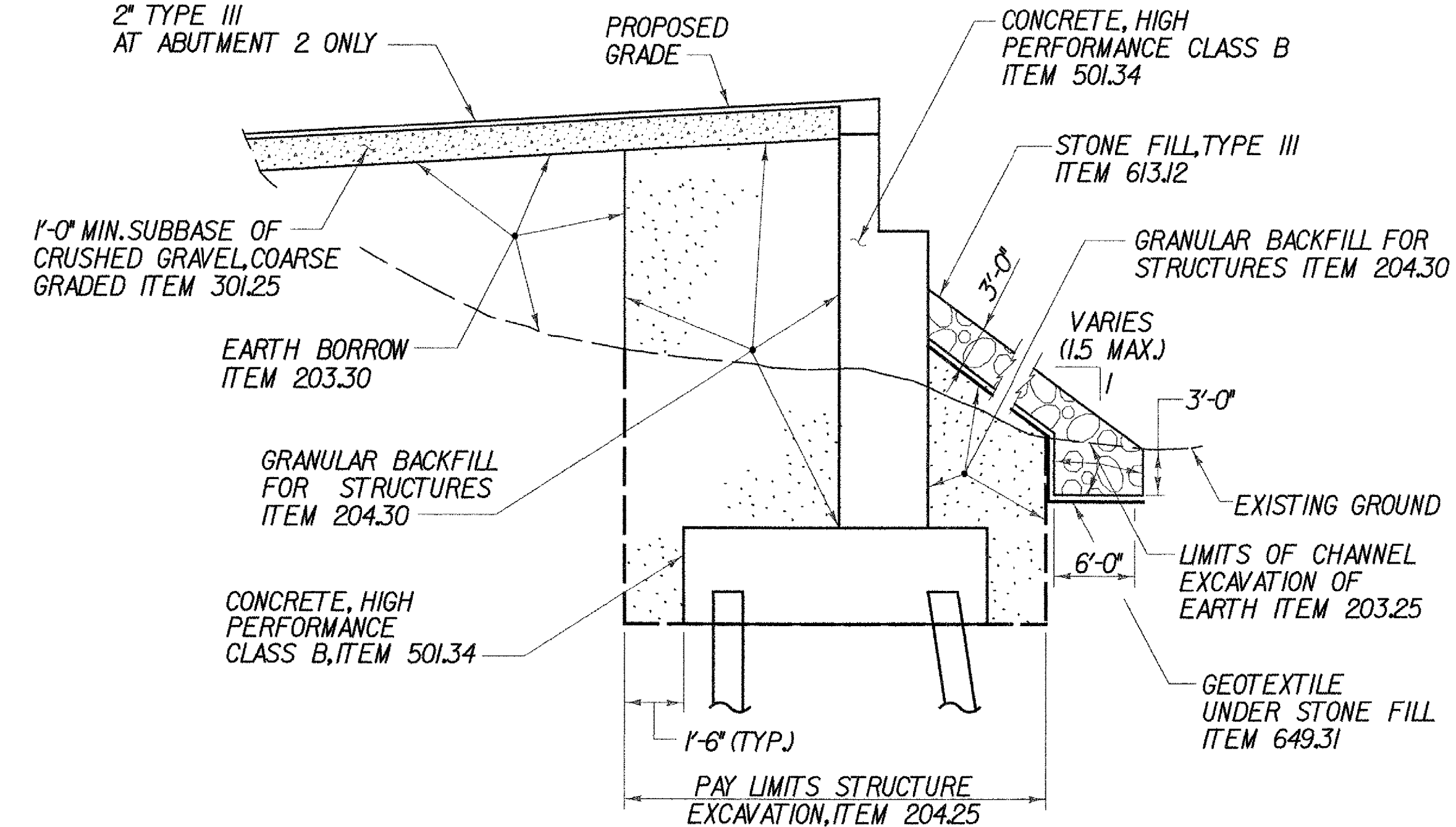
FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
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PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 15 OF 26



CURVE M2	
PC	STA. 1+44.89
PT	STA. 1+63.86
Δ	72°-26'-30"
R	15.00'
L	18.97'
T	10.99'

ITEM 406.27
MEDIUM DUTY BITUMINOUS
CONCRETE PAVEMENT (PG 58-28)
2" TYPE III
AT ABUTMENT 2 ONLY



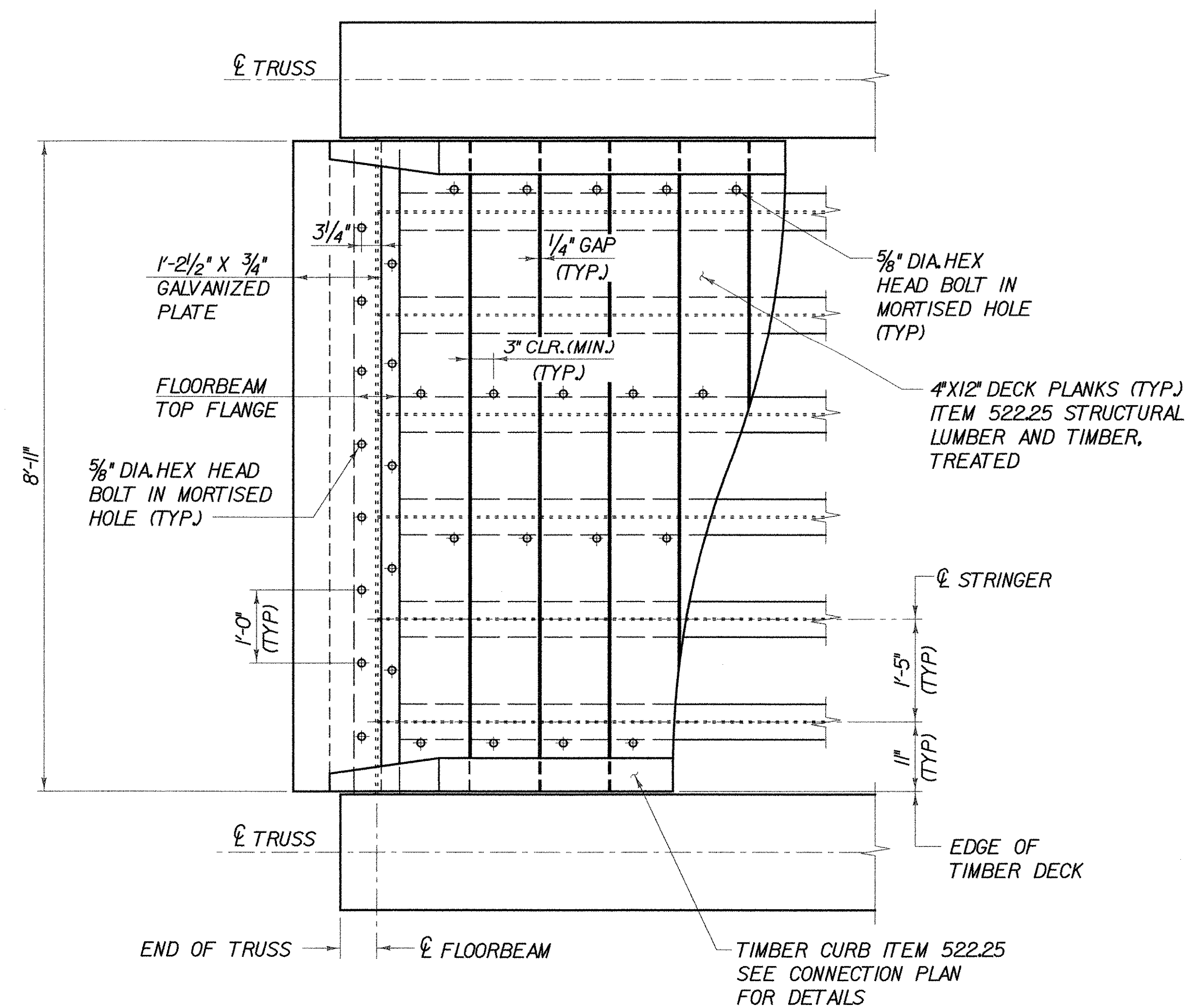
PLAN AND ELEVATION

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

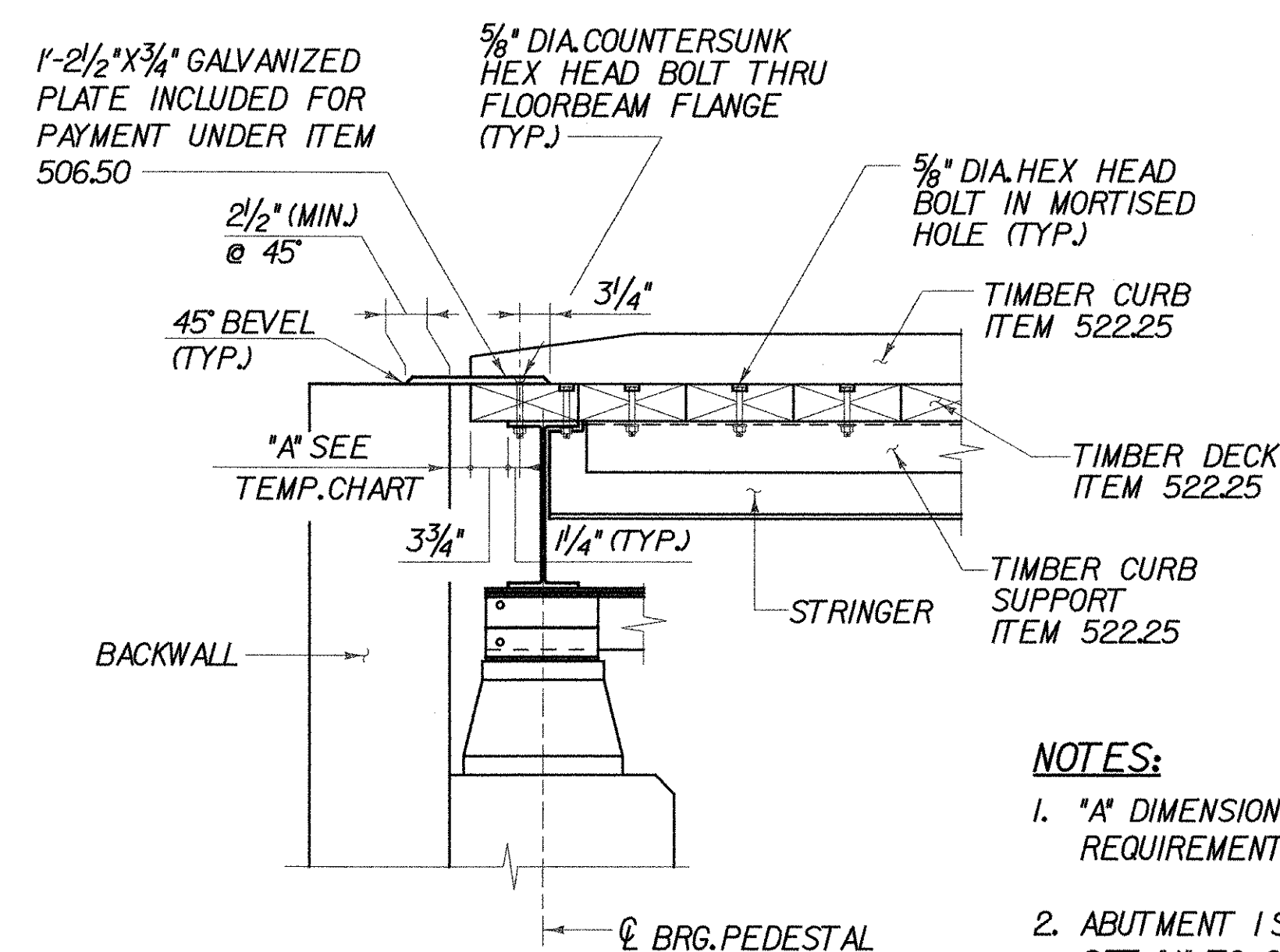
PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 16 OF 26





TIMBER DECK PARTIAL PLAN

SCALE $\frac{3}{4}" = 1'-0"$



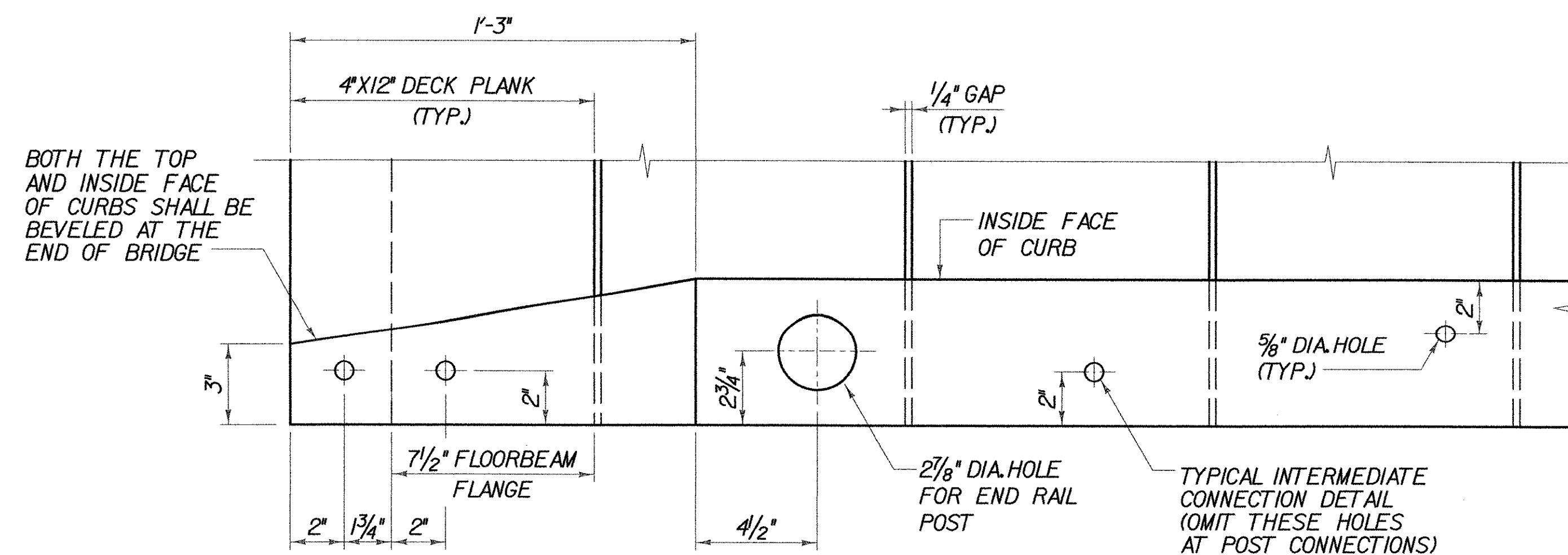
TEMP. CHART	
TEMP.	"A"
0° F	2 ³ / ₄ "
15° F	2 ⁵ / ₈ "
30° F	2 ¹ / ₂ "
45° F	2 ¹ / ₄ "
60° F	2 ¹ / ₈ "
75° F	2"
90° F	1 ⁷ / ₈ "
105° F	1 ³ / ₄ "

NOTES:

1. "A" DIMENSIONS SHOWN IN TEMP. CHART ARE MINIMUM REQUIREMENTS AT ABUTMENT 1.
2. ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR. AT ABUTMENT 2 SET "A" TO 2 1/4" REGARDLESS OF AMBIENT TEMPERATURE.

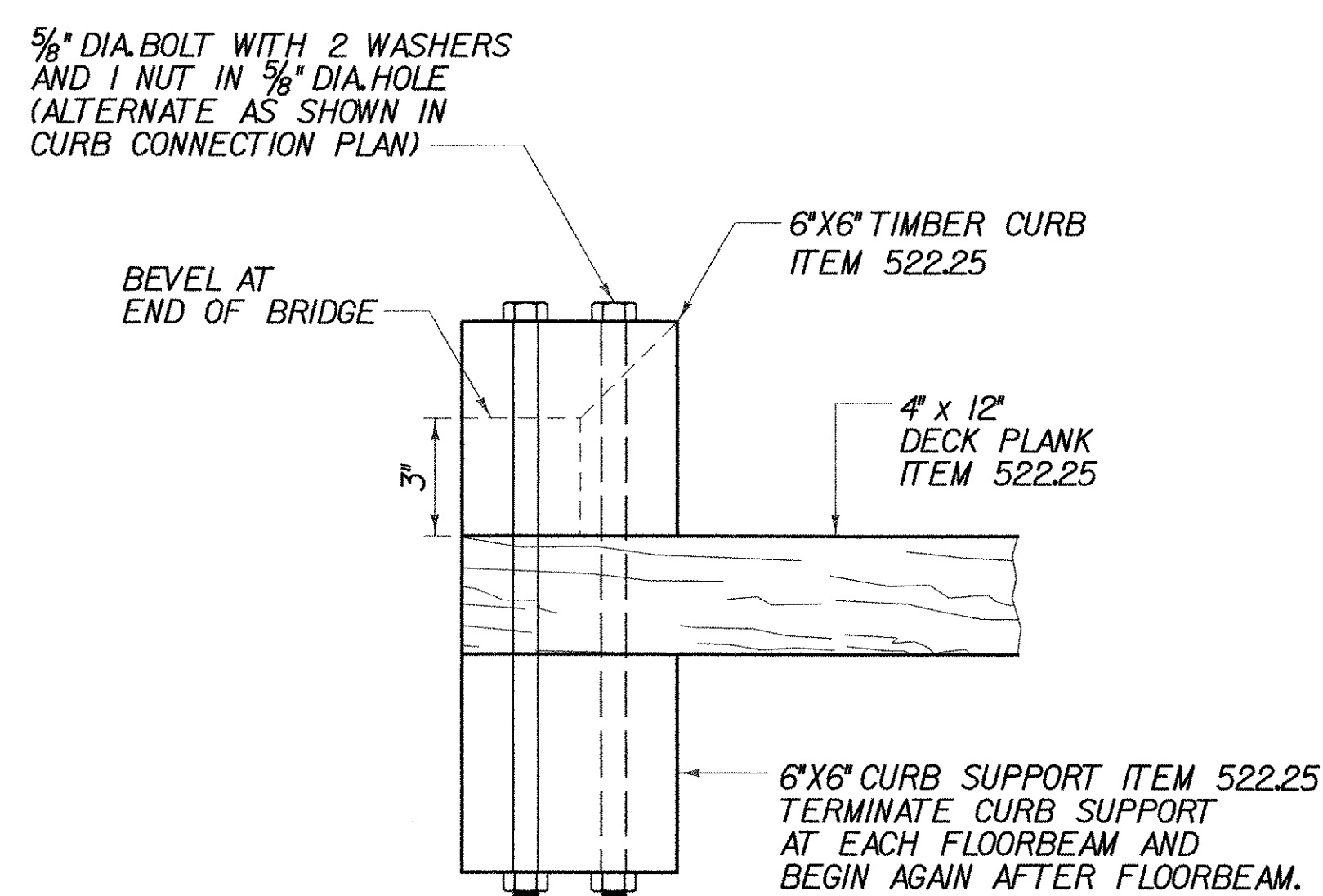
END JOINT DETAIL

SCALE $\frac{3}{4}" = 1'-0"$



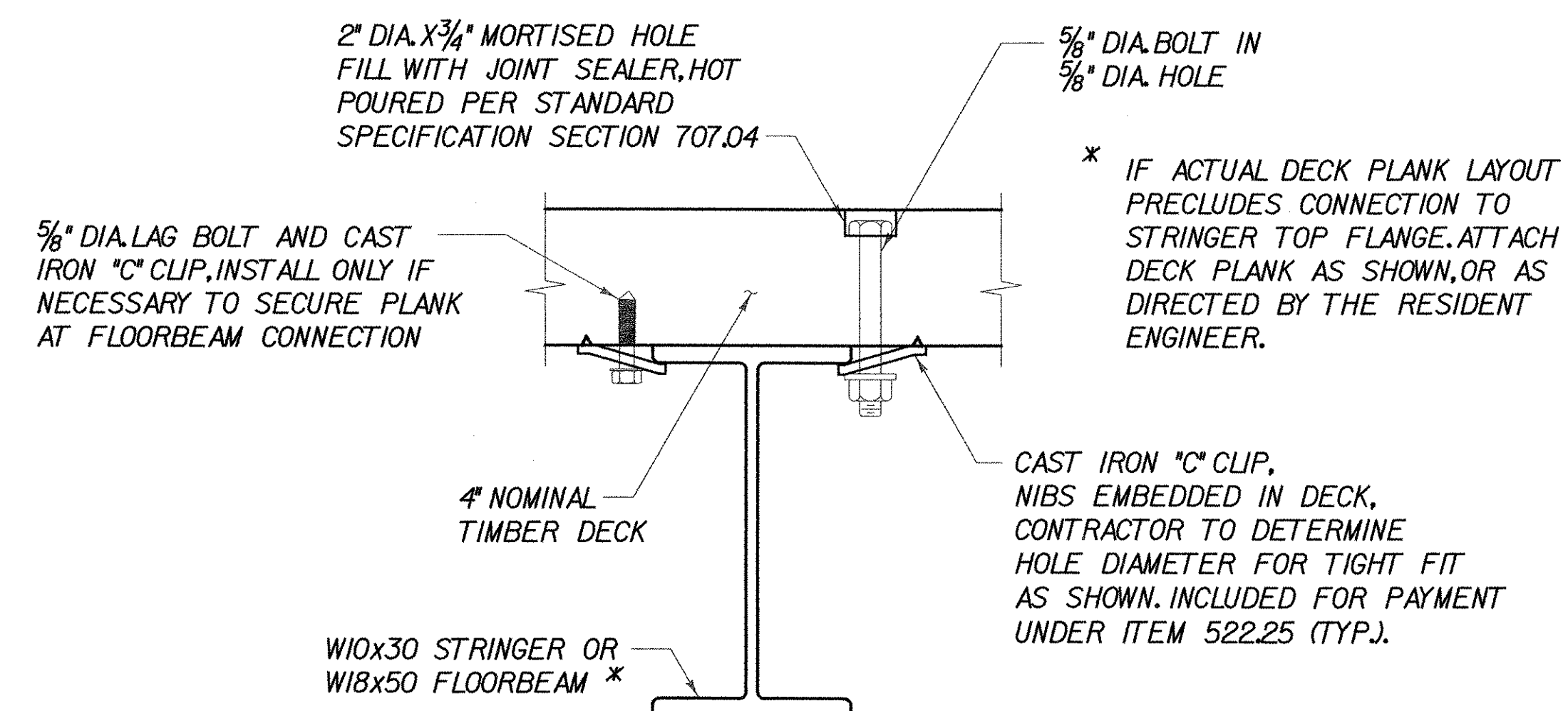
CURB CONNECTION PLAN

SCALE 3" = 1'-0"



TYPICAL CURB SECTION

SCALE 3" = 1'-0"



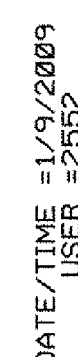
DECK CONNECTION DETAIL

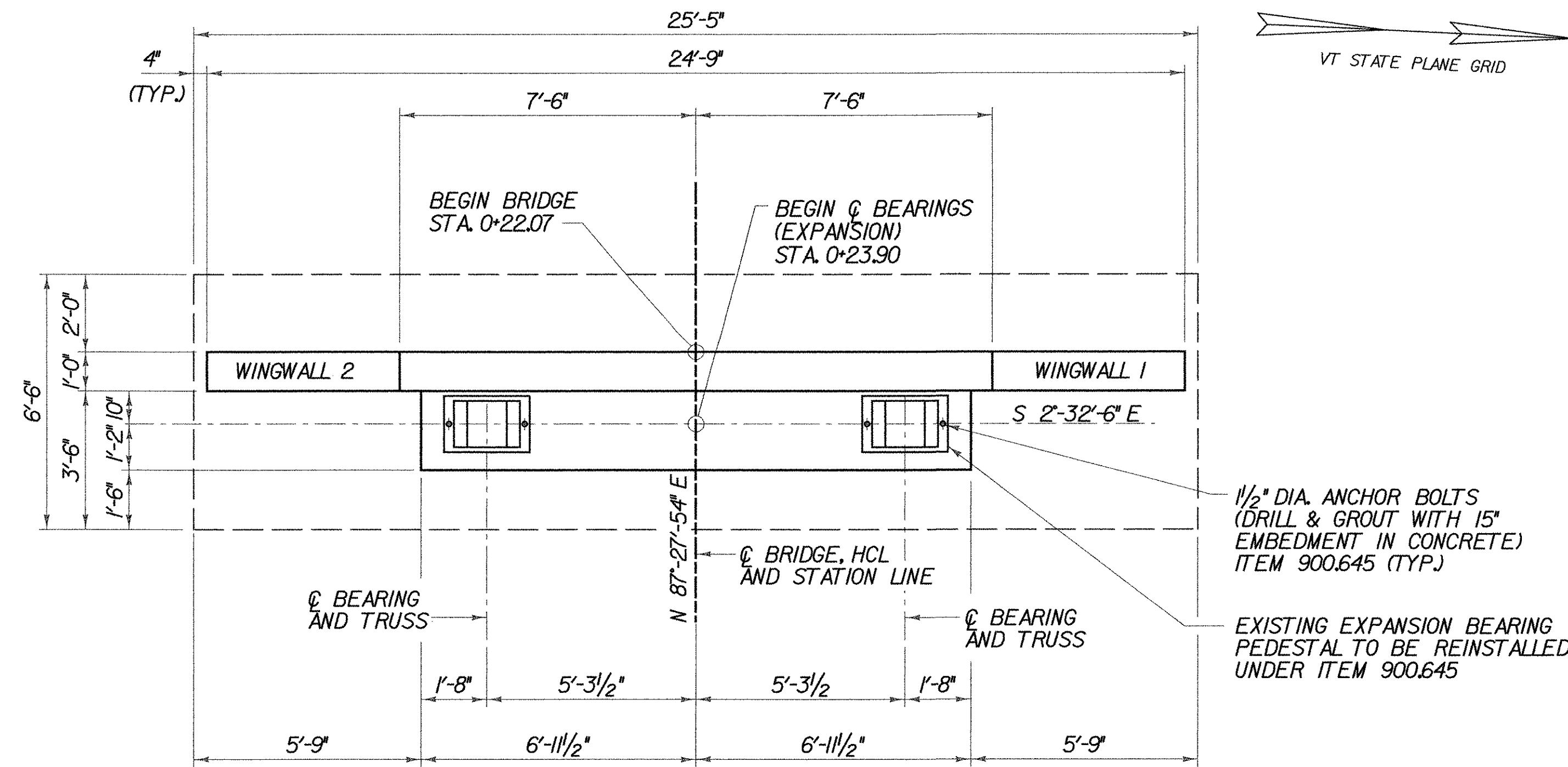
SCALE 3" = 1'-0"

DECK PLAN AND DETAILS

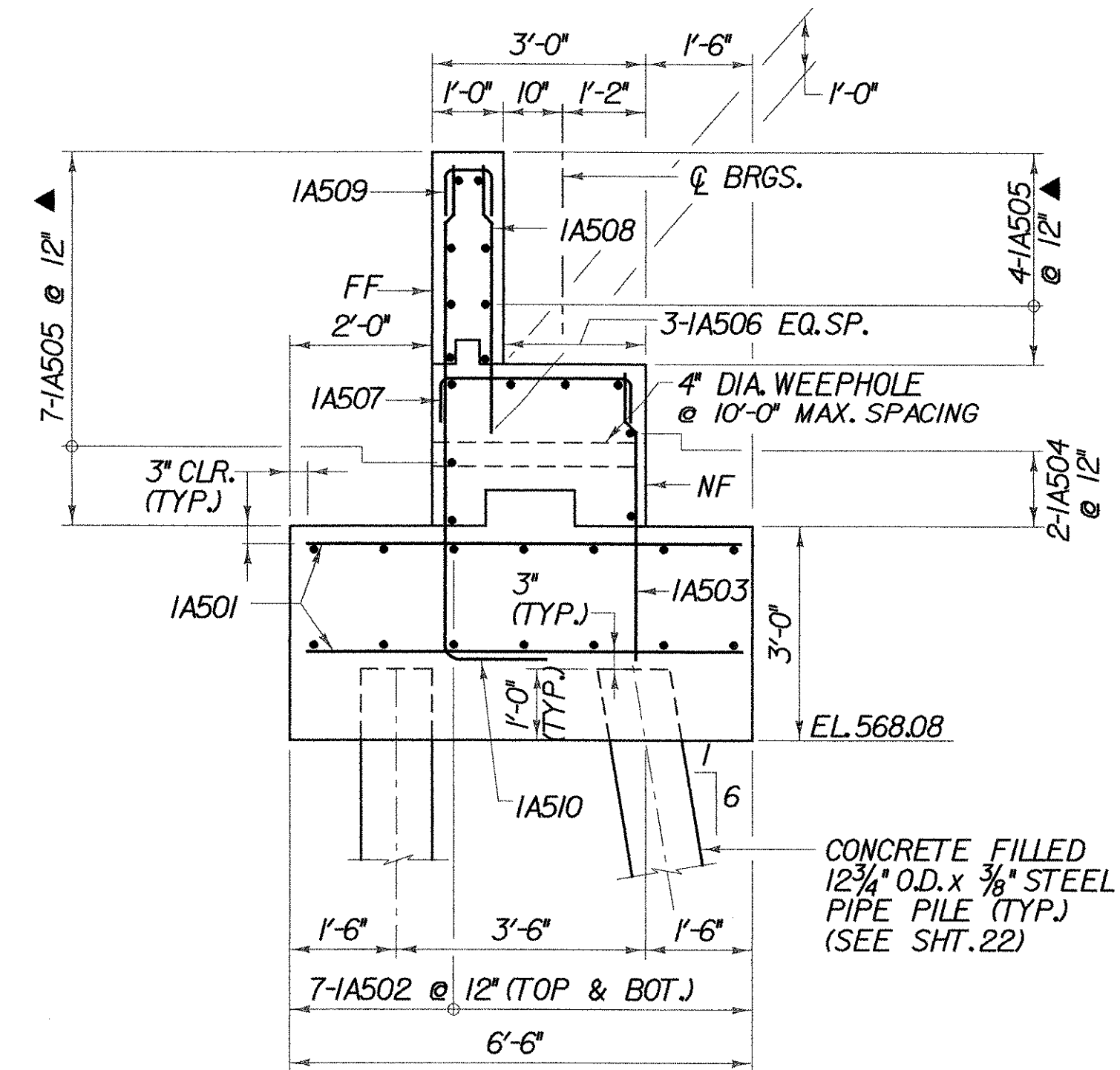
PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

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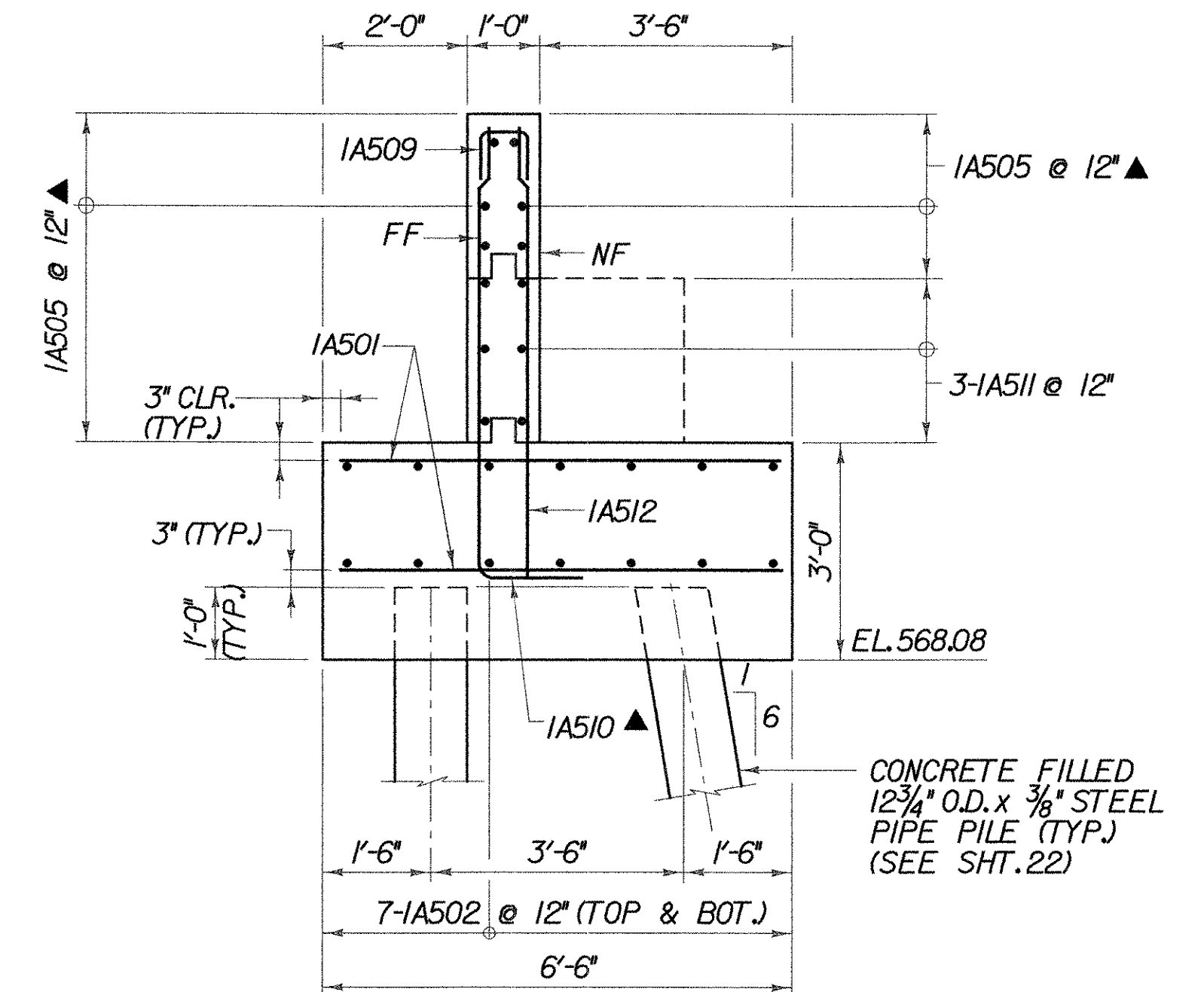




PLAN
SCALE 3/8" = 1'-0"
1 0 1 2 3 4

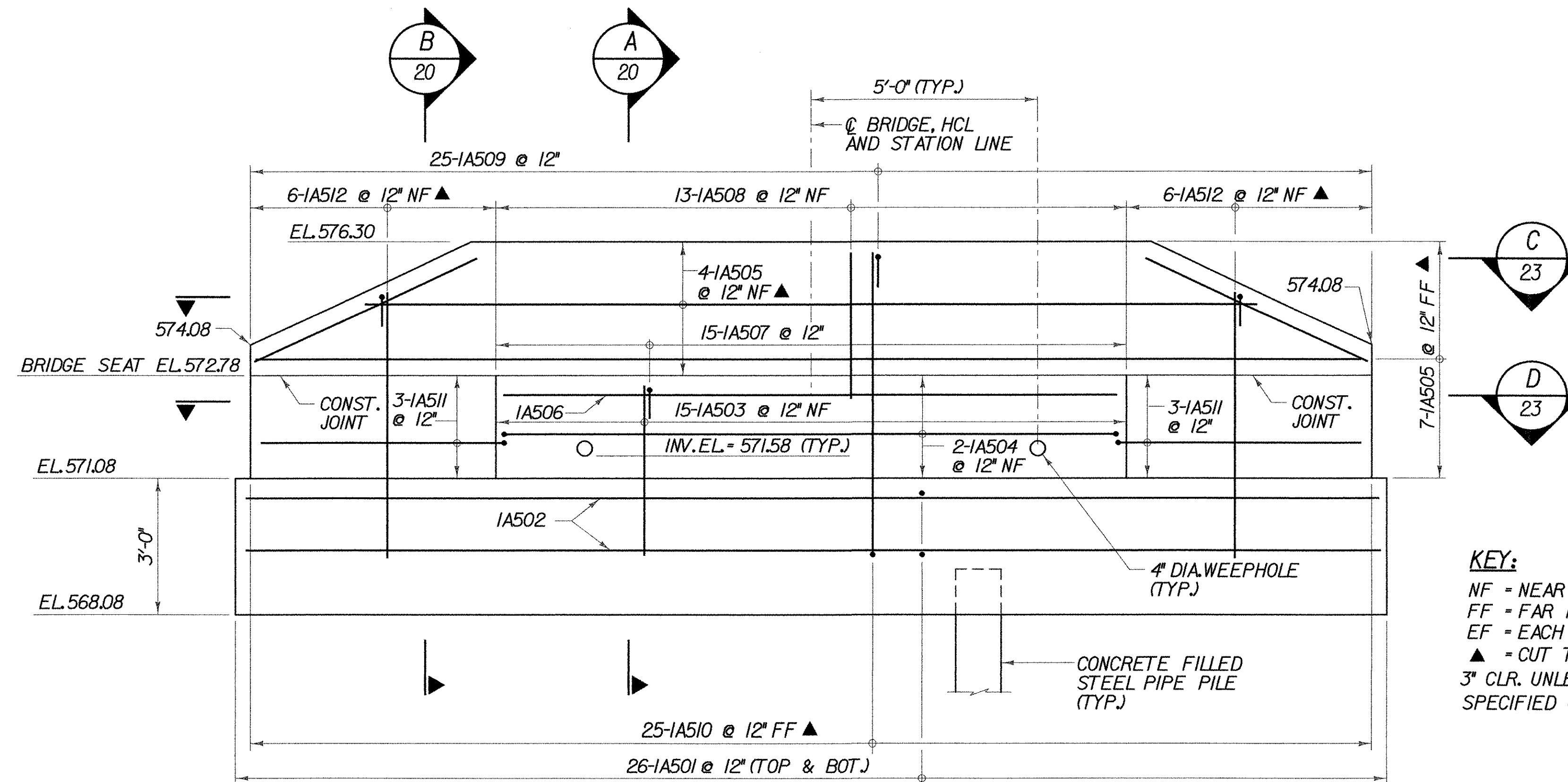


A TYPICAL ABUTMENT SECTION
SCALE 1/2" = 1'-0"
1 0 1 2



B TYPICAL WINGWALL SECTION
SCALE 1/2" = 1'-0"
1 0 1 2

NOTES:
1. THE IA506 REINFORCEMENT BARS SHALL BE PLACED TO AVOID ANCHOR ROD PLACEMENT.



ELEVATION
SCALE 1/2" = 1'-0"
1 0 1 2

KEY:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

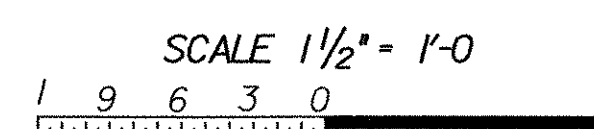
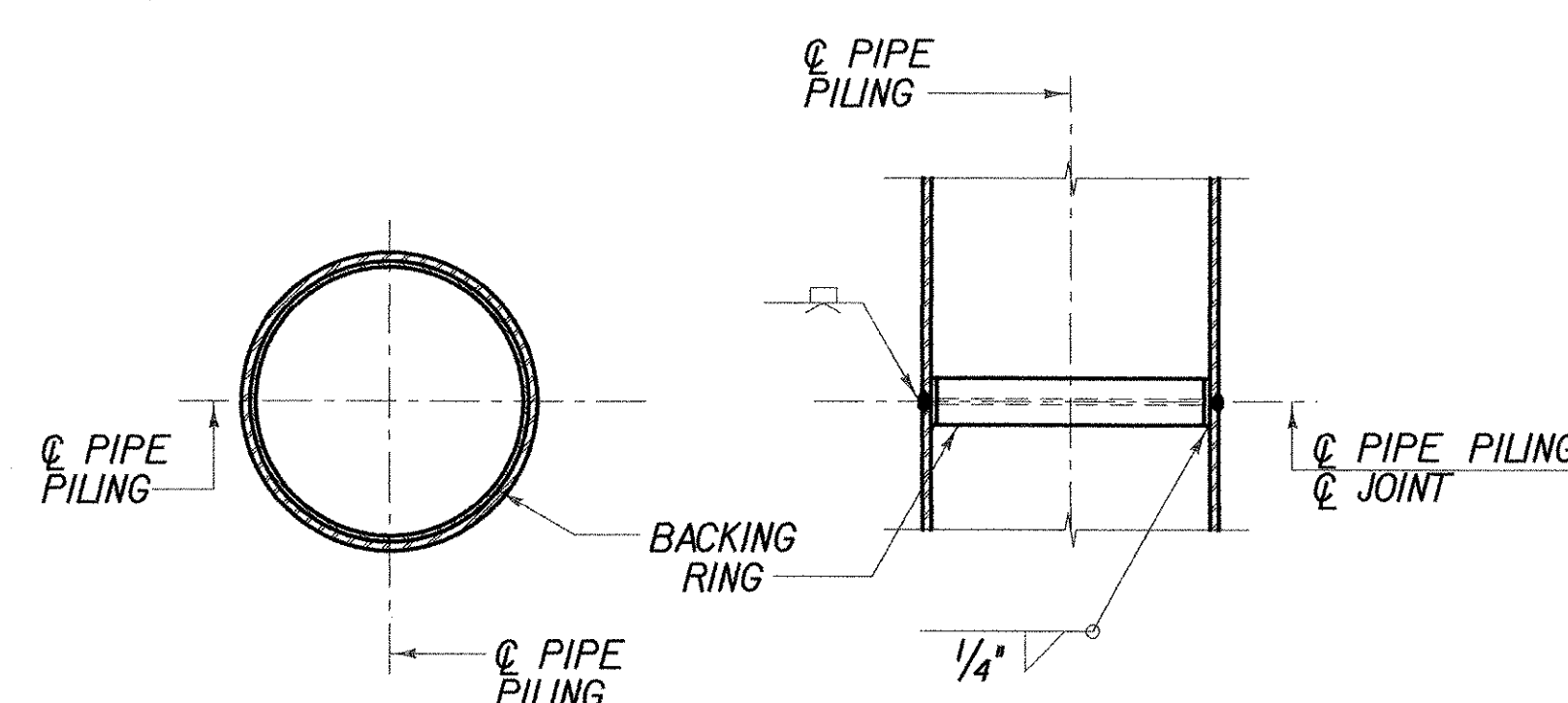
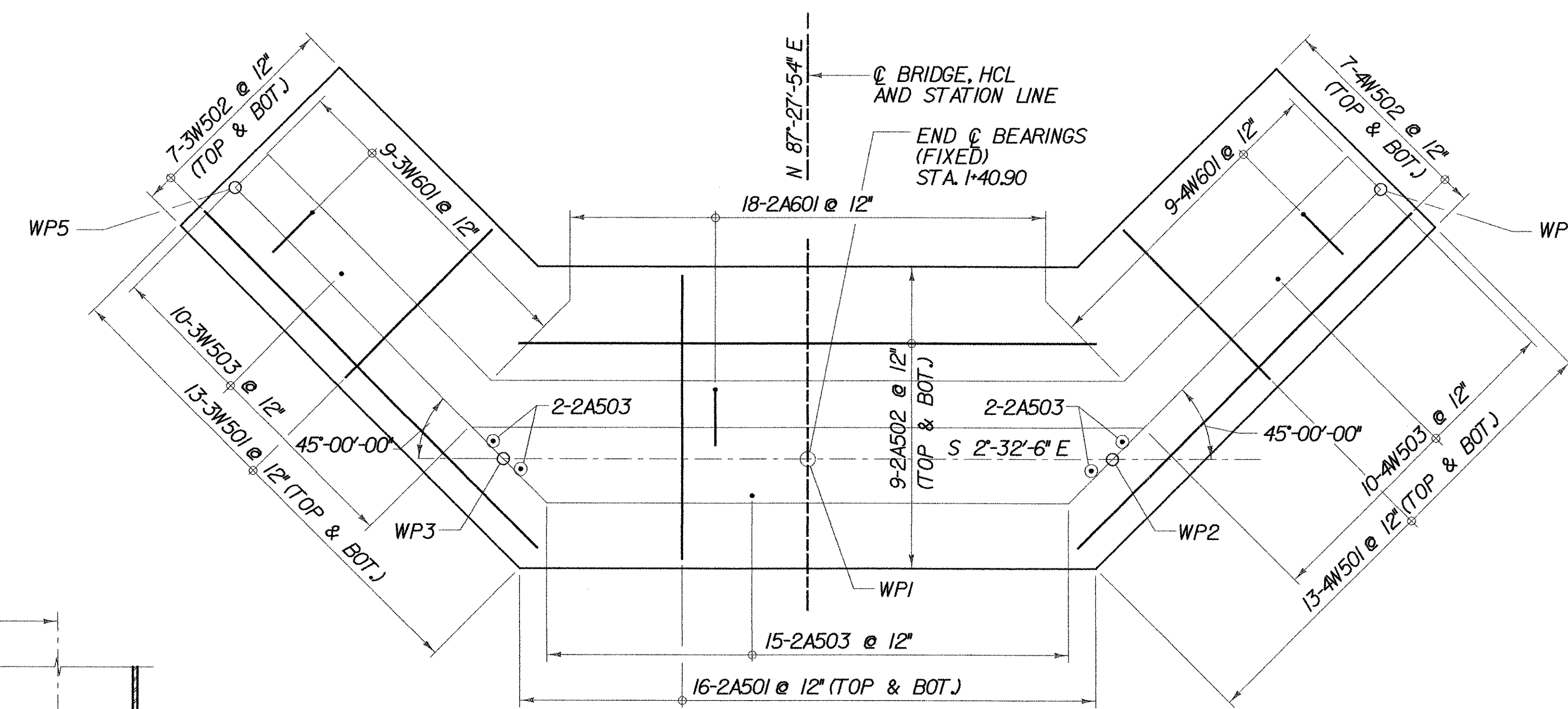
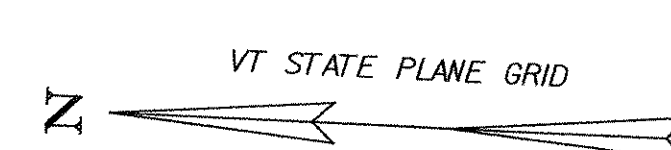
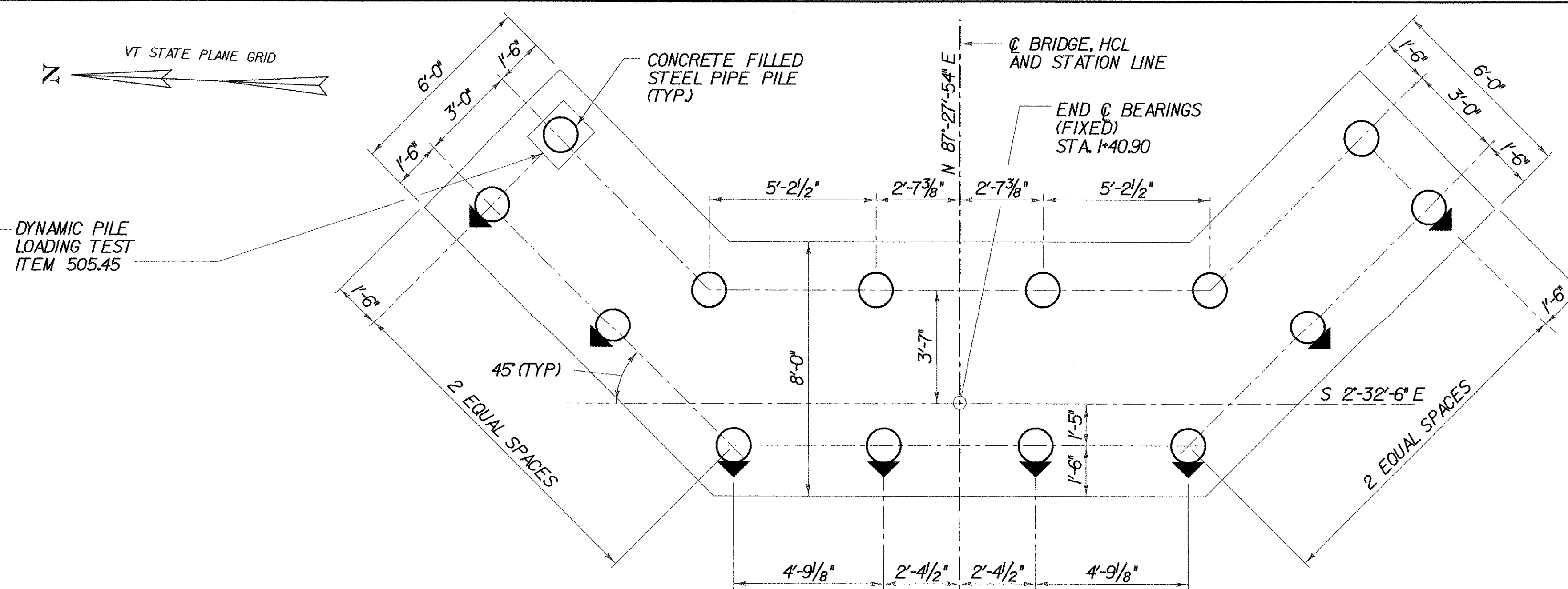
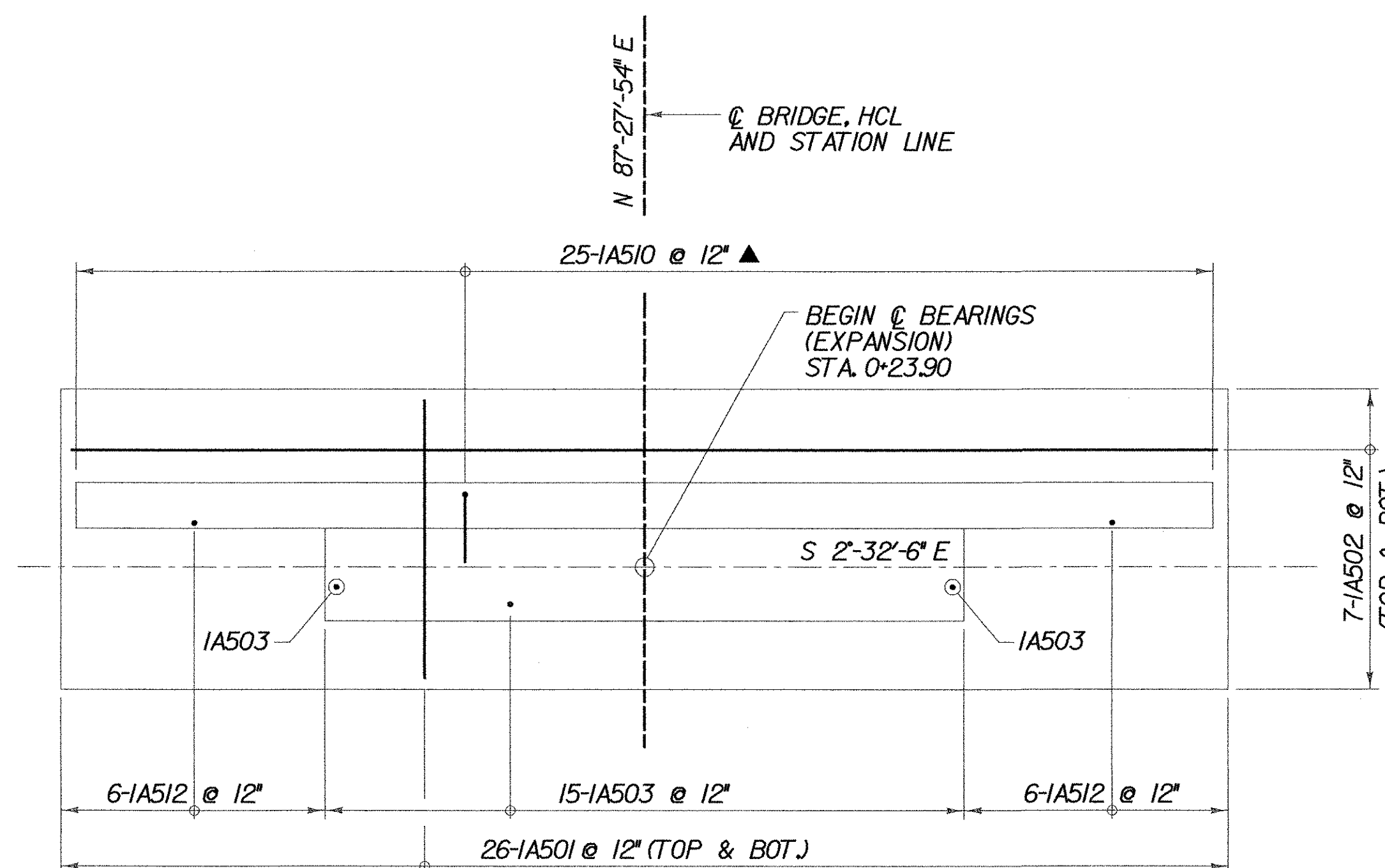
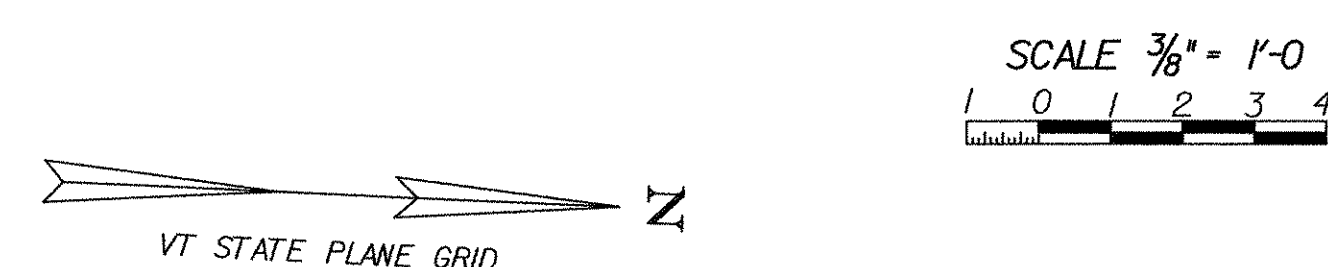
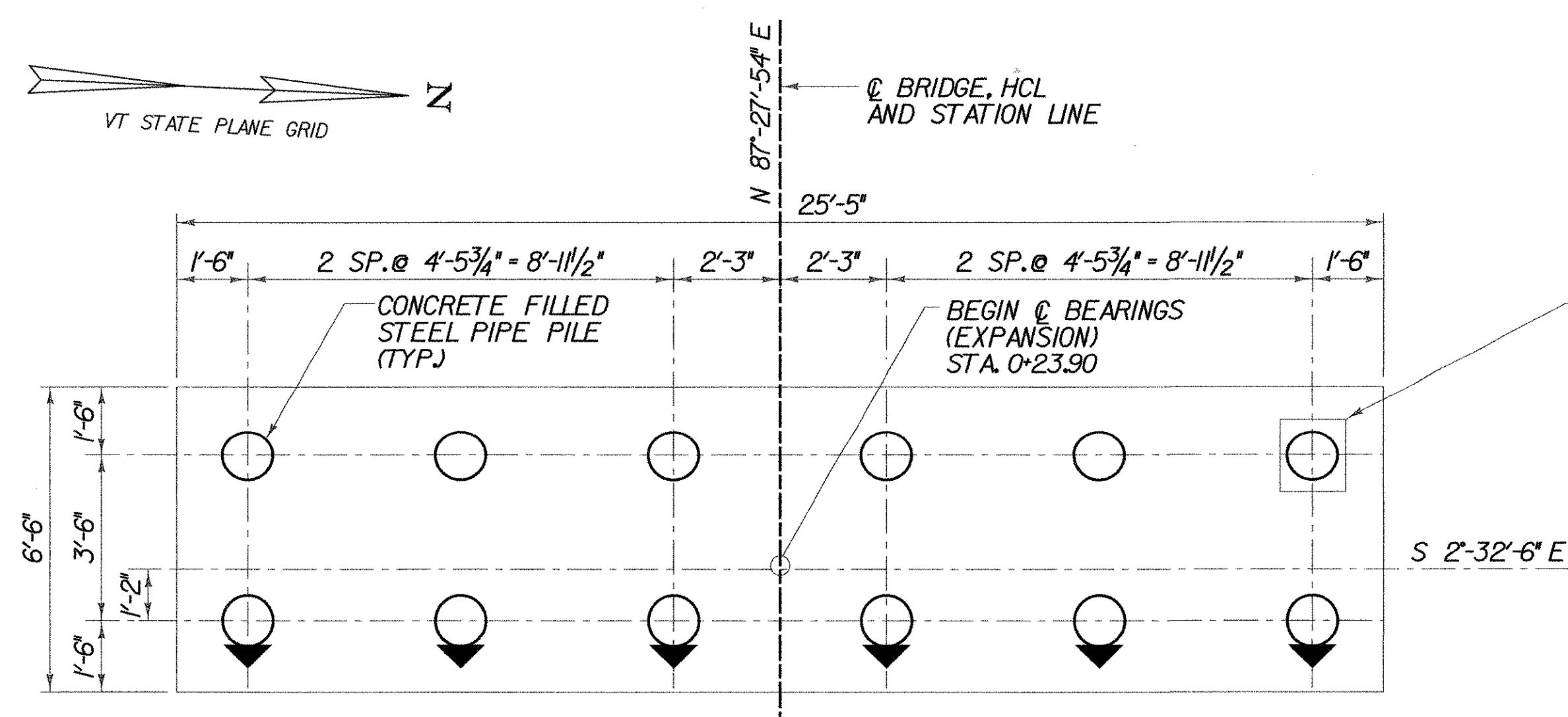
ABUTMENT I PLAN AND ELEVATION

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(I4)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 20 OF 26

CHA



KEY:

* ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED $12\frac{3}{4}"$ O.D. $\times$ $\frac{3}{8}"$ PIPE)
 $12\frac{3}{4}"$ O.D. $\times$ $\frac{3}{8}"$ STEEL PIPE PILING FILLED WITH HIGH PERFORMANCE
 CONCRETE, CLASS B BATTERED 1 H : 6 V AND DRIVEN TO:
 230 KIPS ULTIMATE CAPACITY (ABUTMENT 1)
 189 KIPS ULTIMATE CAPACITY (ABUTMENT 2)
 ESTIMATED LENGTH EQUALS 51 FEET (ABUTMENT 1)
 ESTIMATED LENGTH EQUALS 53 FEET (ABUTMENT 2)

○ = ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED 12 $\frac{3}{4}$ " O.D.X $\frac{3}{8}$ " PIPE)
12 $\frac{3}{4}$ " O.D.X $\frac{3}{8}$ " STEEL PIPE PILING FILLED WITH HIGH PERFORMANCE
CONCRETE, CLASS B AND DRIVEN TO:
230 KIPS ULTIMATE CAPACITY (ABUTMENT 1)
189 KIPS ULTIMATE CAPACITY (ABUTMENT 2),
ESTIMATED LENGTH EQUALS 51 FEET (ABUTMENT 1)
ESTIMATED LENGTH EQUALS 53 FEET (ABUTMENT 2)

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

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DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 22 OF 26

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 22 OF 26

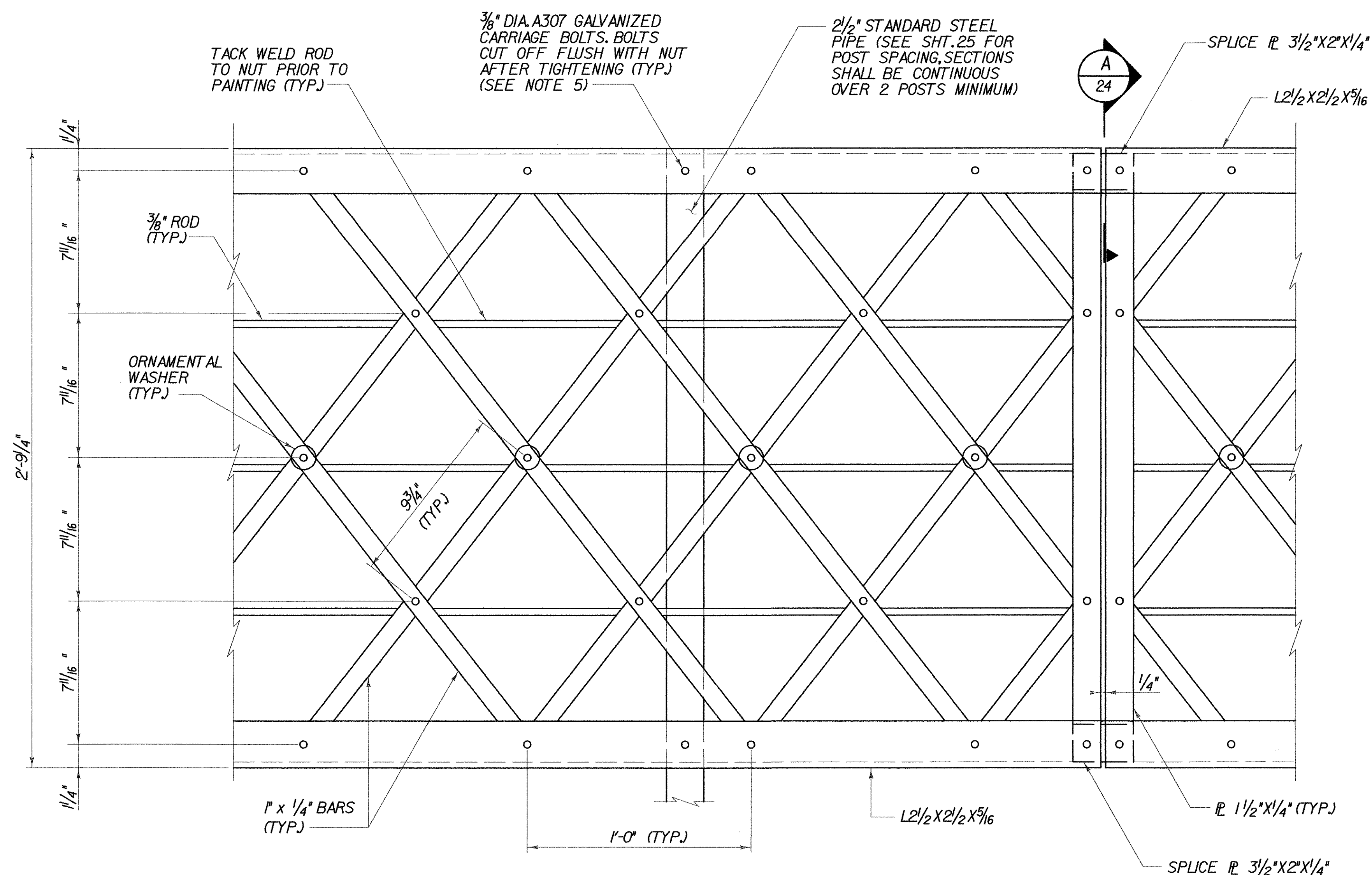
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SHEET 22 OF 26

PLOT DATE: 1/9/2009
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SHEET 22 OF 26

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CHA

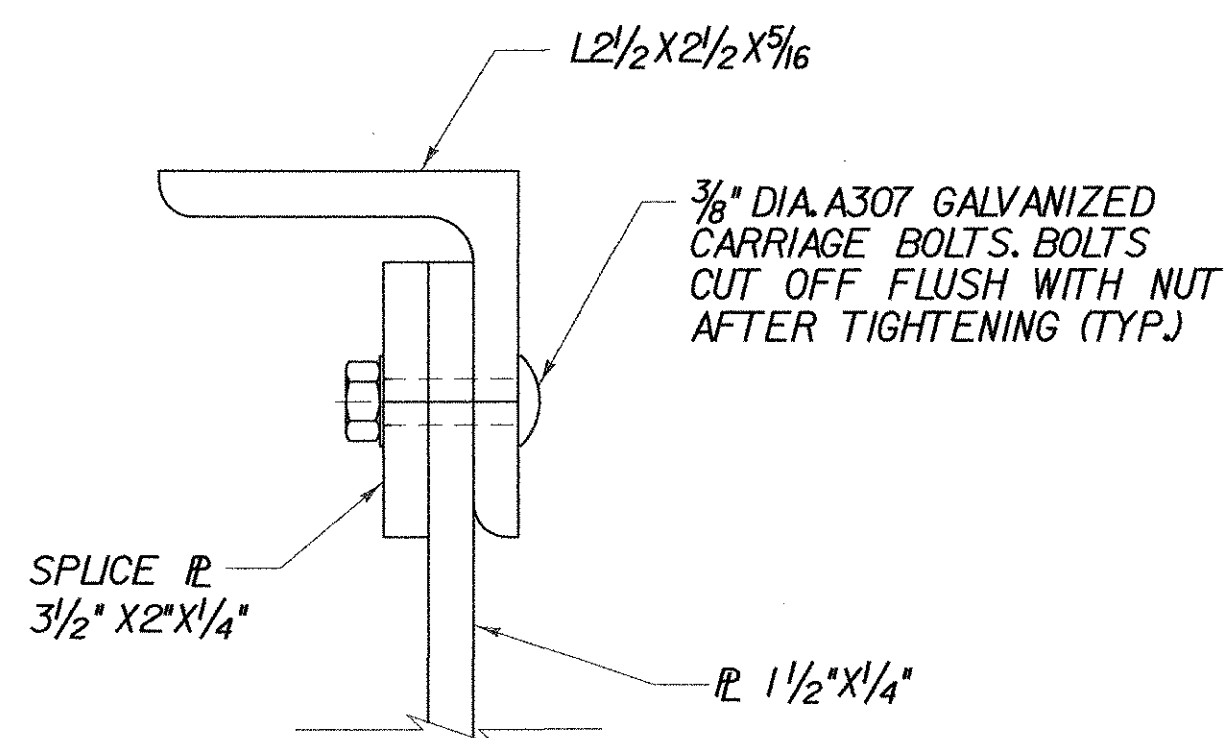
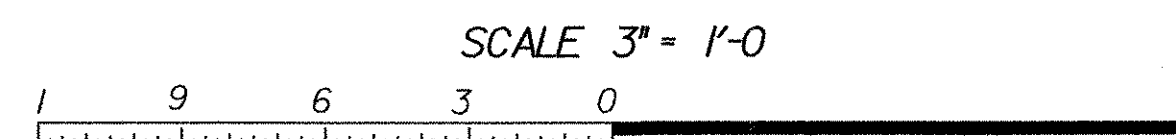
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USER: 2652



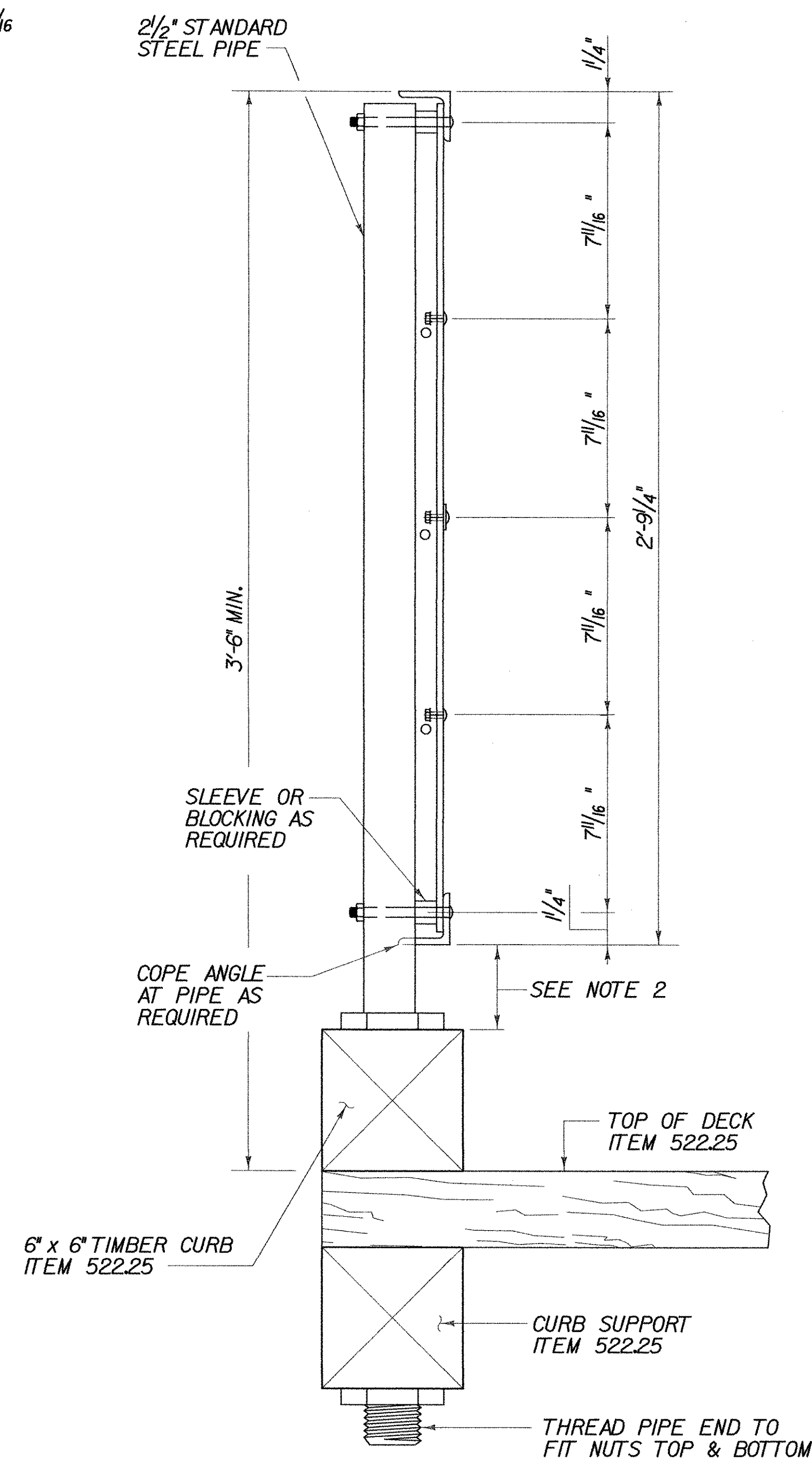
NOTES:

1. ALL MATERIAL TO BE AASHTO M270 GRADE 36. ALL LABOR AND MATERIALS REQUIRED FOR FABRICATION AND ERECTION OF BRIDGE RAILING SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).
2. THE VERTICAL OPENING BELOW THE BOTTOM ANGLE SHALL NOT EXCEED 6".
3. ORNAMENTAL WASHERS SHALL BE CAST IRON AND COST INCLUDED UNDER ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).
4. ONE WASHER STYLE WILL BE CHOSEN BY THE TOWN AND USED THROUGHOUT THE RAILING.
5. AFTER BOLTS ARE CUT OFF, THE CUT ENDS SHALL BE TREATED WITH A MANUFACTURER'S RECOMMENDED 'COLD GALVANIZING', INCLUDED FOR PAYMENT UNDER ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).

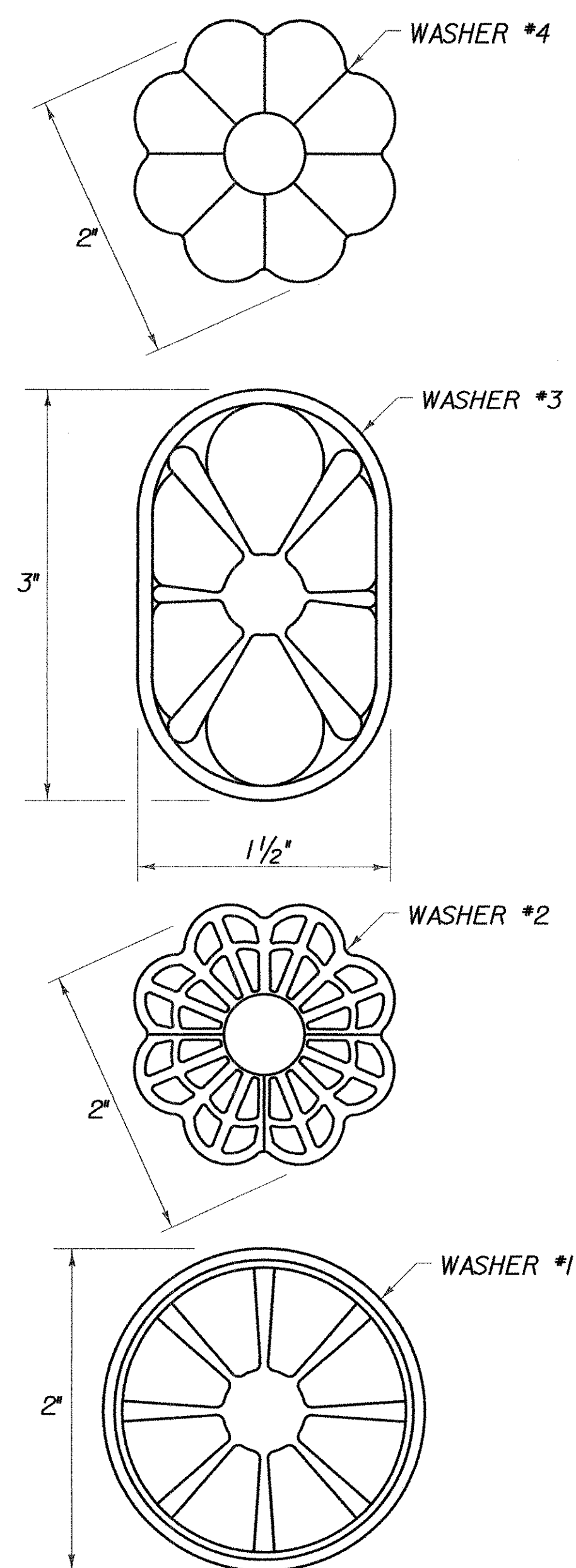
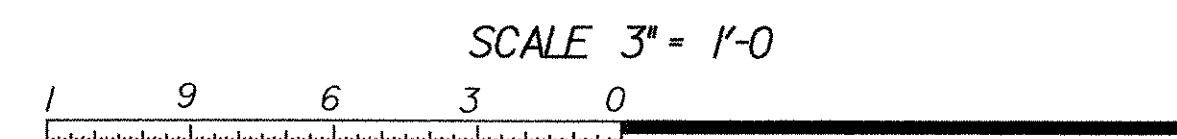
BRIDGE RAILING ELEVATION



A RAILING CONNECTION PLATE
24 (NOT TO SCALE)



TYPICAL BRIDGE RAILING SECTION



ORNAMENTAL WASHERS FOR
BRIDGE RAIL
(NOT TO SCALE)

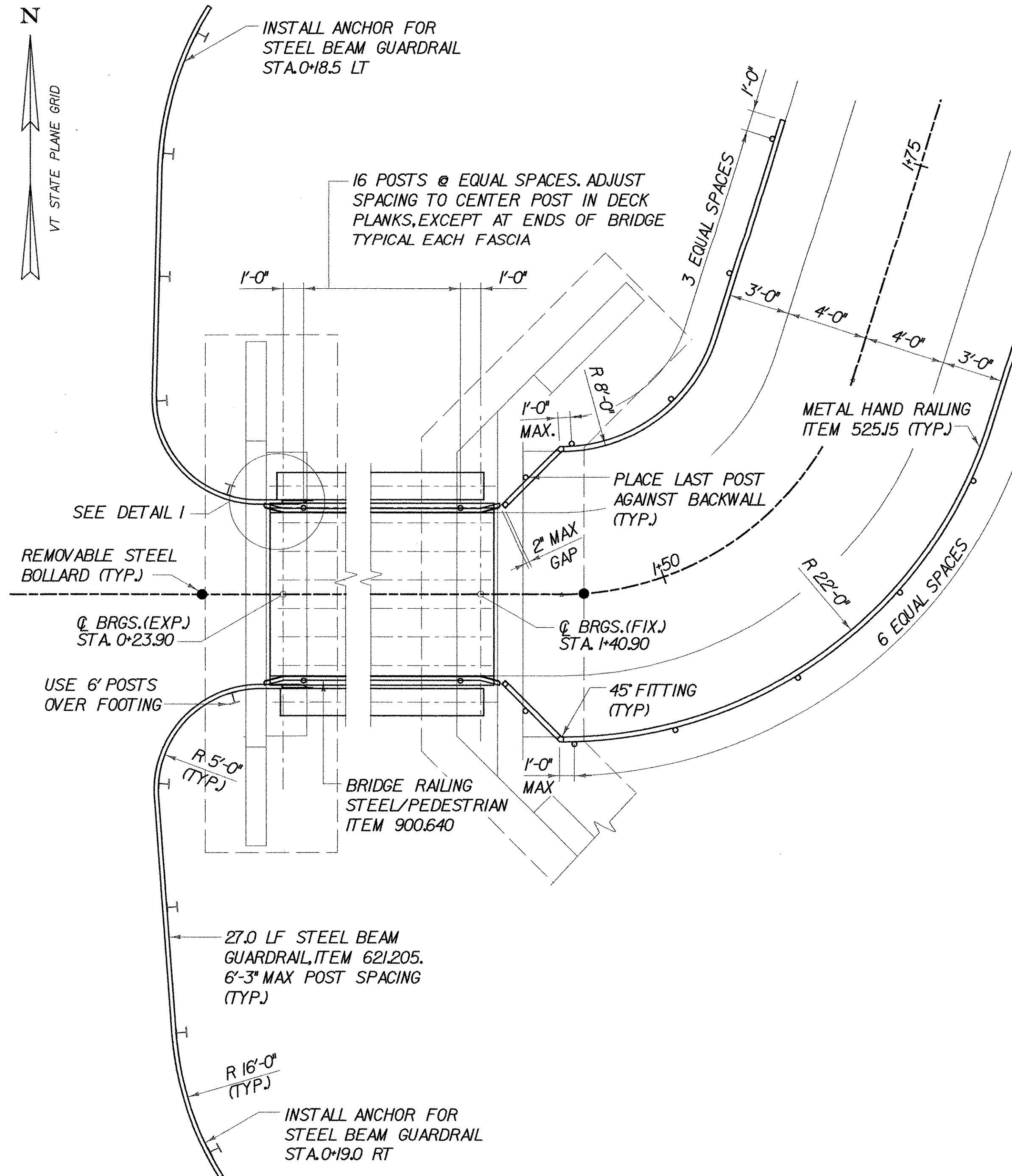
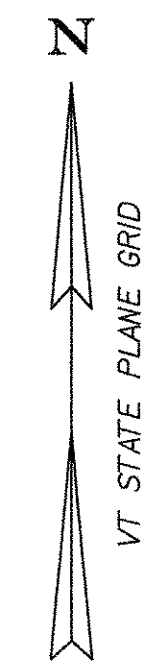
BRIDGE RAILING DETAILS

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

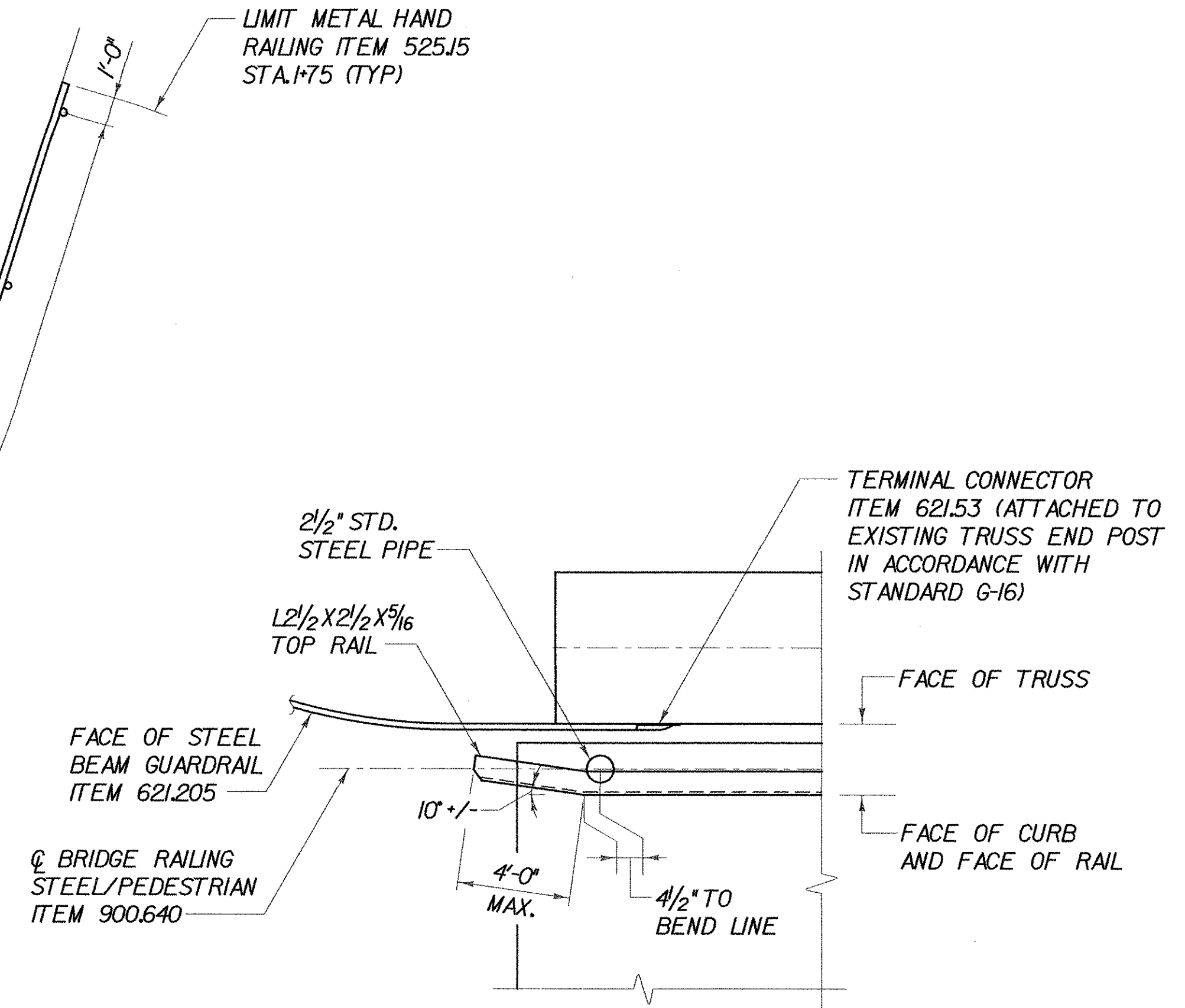
FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 24 OF 26

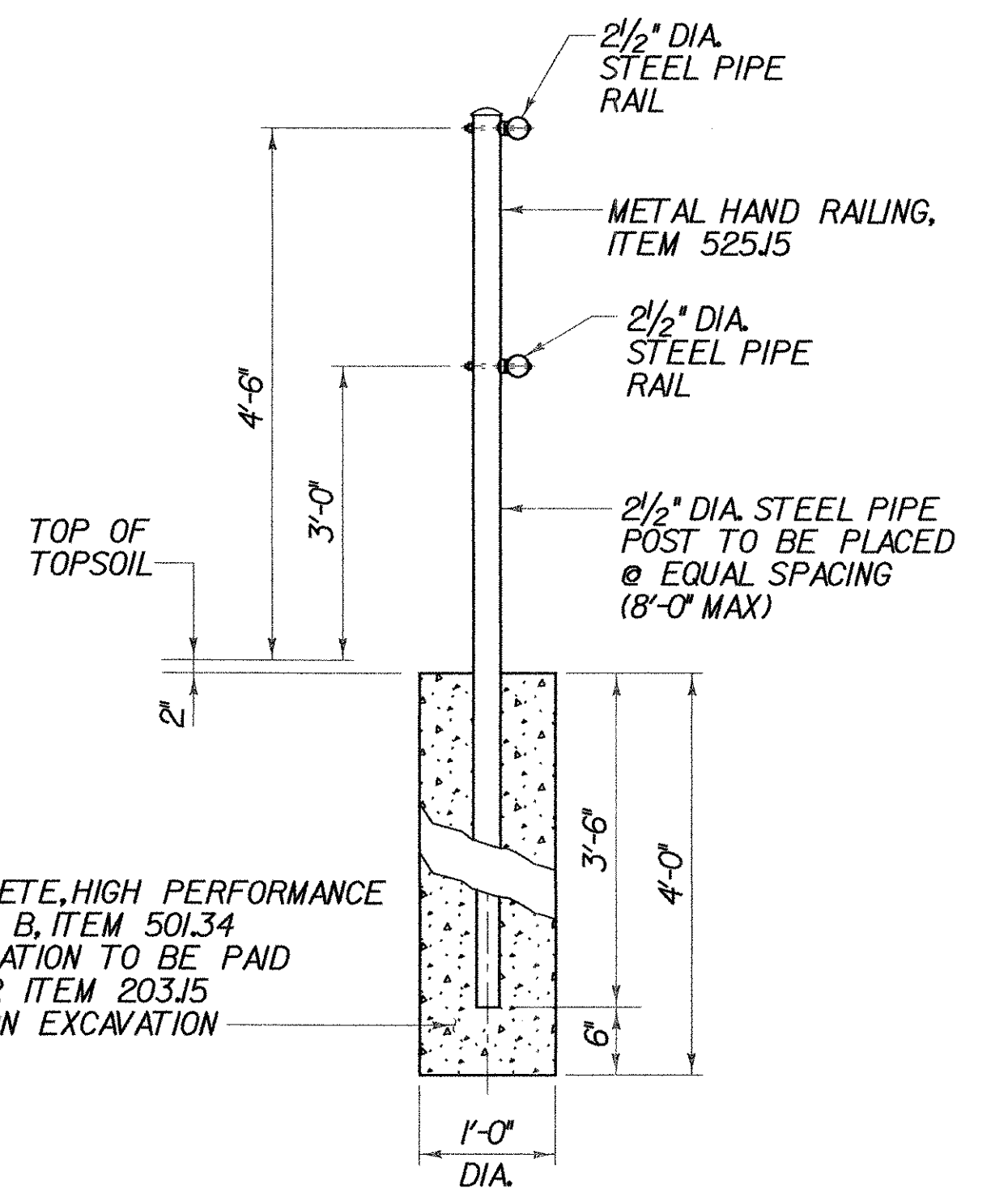
CHA



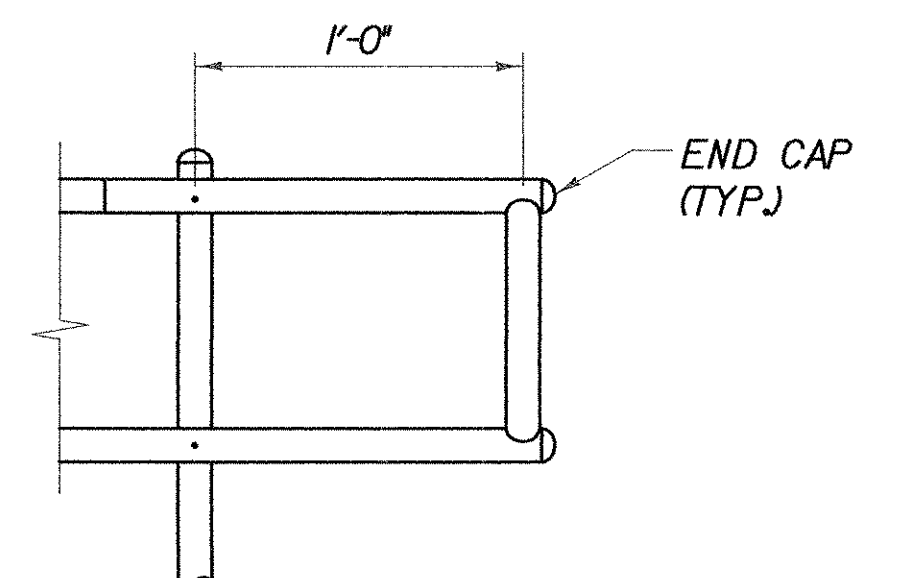
RAIL LAYOUT PLAN
SCALE 1/4" = 1'-0"
1 0 2 4 6



DETAIL 1
(NOT TO SCALE)



METAL HAND RAILING SECTION
(NOT TO SCALE)



METAL HAND RAILING END ELEVATION
(NOT TO SCALE)

RAIL LAYOUT PLAN AND DETAILS

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(I4)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 25 OF 26



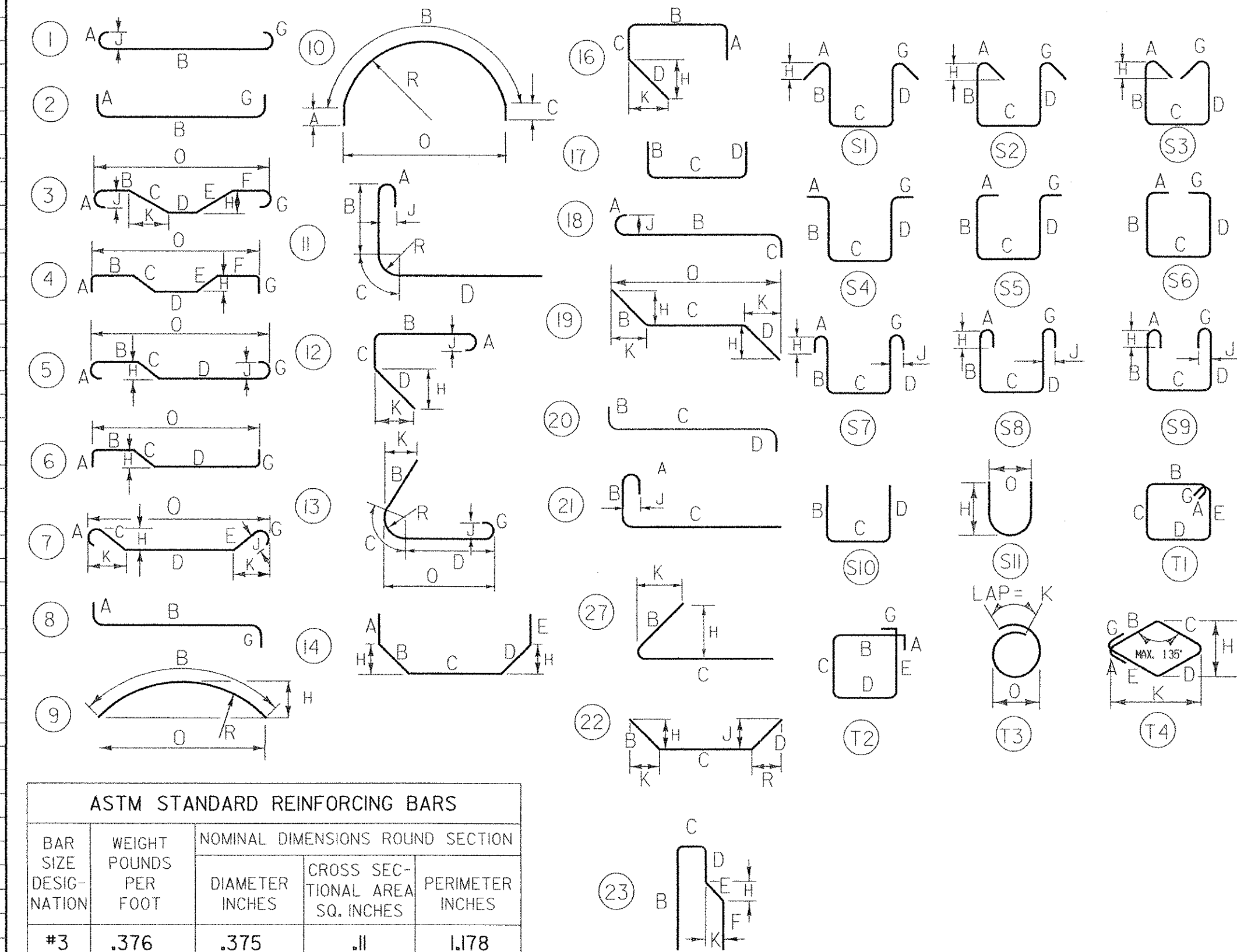
FILE NAME: sub96650\main\prefinal_submission\2021306-ai\shldgn
DATE/TIME: 1/9/2009
USER: 2652

[illegible]

NOTES:

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO.18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

II. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIG- NATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

REINFORCING STEEL SCHEDULE

PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 26 OF 26





State of Vermont
PDD/Structures Design Section
One National Life Drive
Montpelier, VT 05633-5001
www.aot.state.vt.us

[phone]

802-828-2621

[fax]

802-828-3566

[tel]

800-253-0191

Agency of Transportation

Renaud Bros , Inc
283 Fort Bridgeman Road #2
Vernon, VT 05354

May 29, 2009

Project Name: Wallingford STP WALK(14)

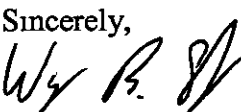
The following Structural Steel shop drawing details for the above project (General Contractor – Renaud Bros , Inc) have been reviewed and are being returned herewith

Truss 1 Shops: These drawings are “Approved as Noted”. Note the comments in red.

Truss 2 Drawings: These drawings are “Approved as Noted”. Note the comments in red.

Pedestrian Railing Drawings: These drawings are to be “Resubmitted”. The drawings shall be reconsidered and resubmitted for approval. Also note that there is a required welding procedure.

You must provide notice to our fabrication inspector, Jeff Clark, as to the date fabrication represented by these drawings will begin That notice must be received and acknowledged at least seven days prior to that date, as per Specification 506 03 Jeff may be contacted by phone at (802)828-0044 or email at jeff.clark@state.vt.us Any material fabricated prior to the notification date is subject to rejection without further cause

Sincerely,

Wayne Symonds
Project Manager

Attachments

- cc
- ☒ Resident Engineer – Eric Foster

☒ Shop Inspector – Jeff Clark

☒ Contractor – Renaud

☐ Sub-Contractor

☒ Design Consultant – CHA

☒ Construction Divison – letter only

☒ Materials & Research Section (C&IA Unit) – letter only

☒ Files



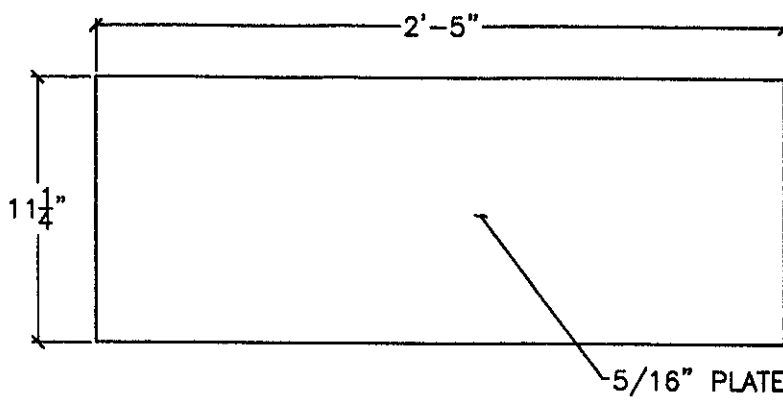
GENERAL NOTES:

- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL HOLES DRILLED IN NEW FABRICATED STEEL, TO MATCH EXISTING STEEL MEMBERS
- * ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-270 GRADE 50
- * UNLESS OTHERWISE NOTED, ALL HOLES SHALL BE DRILLED TO $1\frac{3}{8}$ " DIA
- * DIMENSIONS LESS THAN 25'-0" +/- $\frac{1}{8}$ "
- * DIMENSIONS GREATER THAN 25'-0" +/- $\frac{1}{8}$ "
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS TRUSS TYPE 1 & 2
- * ~~PAINT SYSTEM TO BE USED.~~
- * ~~ALL PARTS TO BE PRIMED PRIOR TO INSTALLATION.~~

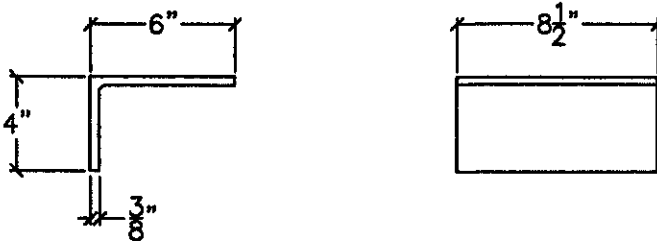
NOTE: FOR FUTURE SUBMITTALS
PLEASE PROVIDE BILL OF
MATERIALS, INCLUDING
FASTENERS, ON THE SHEETS
WITH DETAILS.

BEARING PEDESTAL:

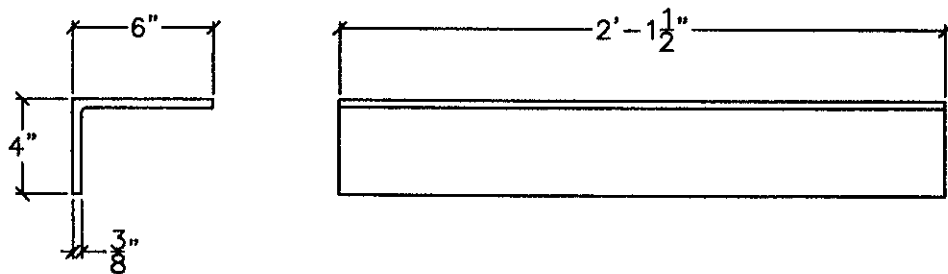
NOTE: HORIZONTAL LATERAL BRACING /
FLOOR BEAM CONNECTION
PLATES, SCHEDULED FOR
REPLACEMENT AT L0, L2, L4, L6 &
L8 ARE NOT INCLUDED IN THIS
SET.



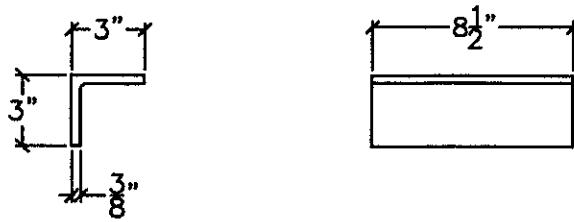
1BP01
3" = 1'-0"



1BP03-ANGLE
3" = 1'-0"



1BP02-ANGLE
3" = 1'-0"



1BP04-ANGLE
3" = 1'-0"

RECEIVED
CHK'D BY CWA OK'D BY _____
MAY 11 2009

BY WY DATE 5/28/09
APPROVED As Noted

Revised By: Construction
Part Number: 170204
(802) 257-7383

TITLE: Wellingford Bridge Rehab
LOCATION: Wellingford, VT

DRAWING TITLE: Drawings Truss Type 1 General Notes & Drawings
DRAWN BY: JED JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD DATE: 4/30/09

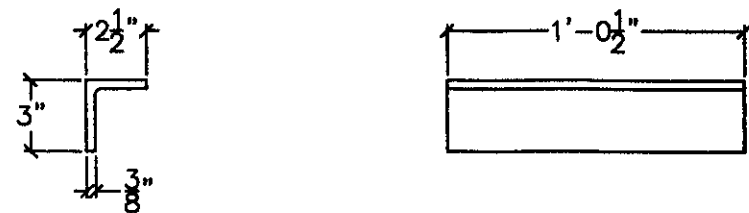
DRAWING NO.

T-1

SHEET NO.

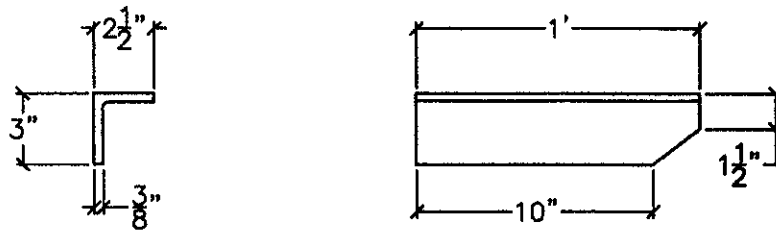
1 OF 17

BEARING PEDESTAL:



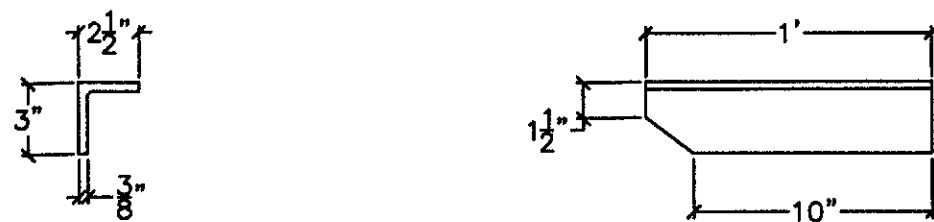
1BP05-ANGLE

3" = 1'-0"



1BP06R-ANGLE

3" = 1'-0"



1BP06R-ANGLE

3" = 1'-0"

DIMENSIONS TBD

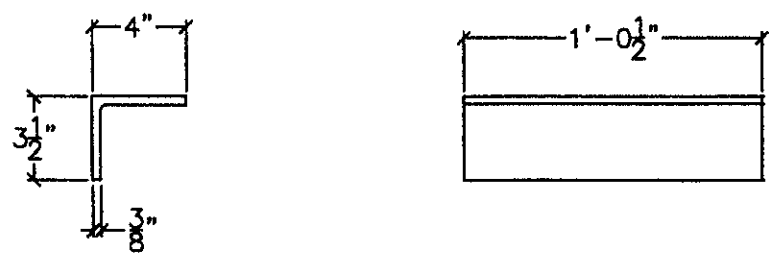
1BP07-PLATE

3" = 1'-0"

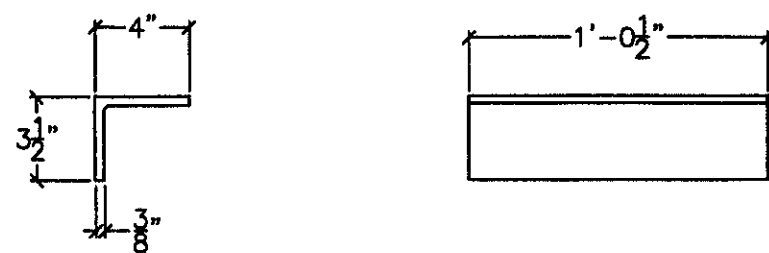
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2011
BY WJ DATE 5/11/11

Project: Wallingford Bridge Rehab		Drawing Title: Drawings Truss Type 1		Job Contact: Erick Foster State of VT		Checked By: ED/AD		Date: 4/30/09	
Location: Wallingford, VT		Drawing No.: T-1		Sheet No.: 2 of 17		Revised By: Construction Wallingford, VT 05691 (802) 257-7383			

BEARING PEDESTAL:



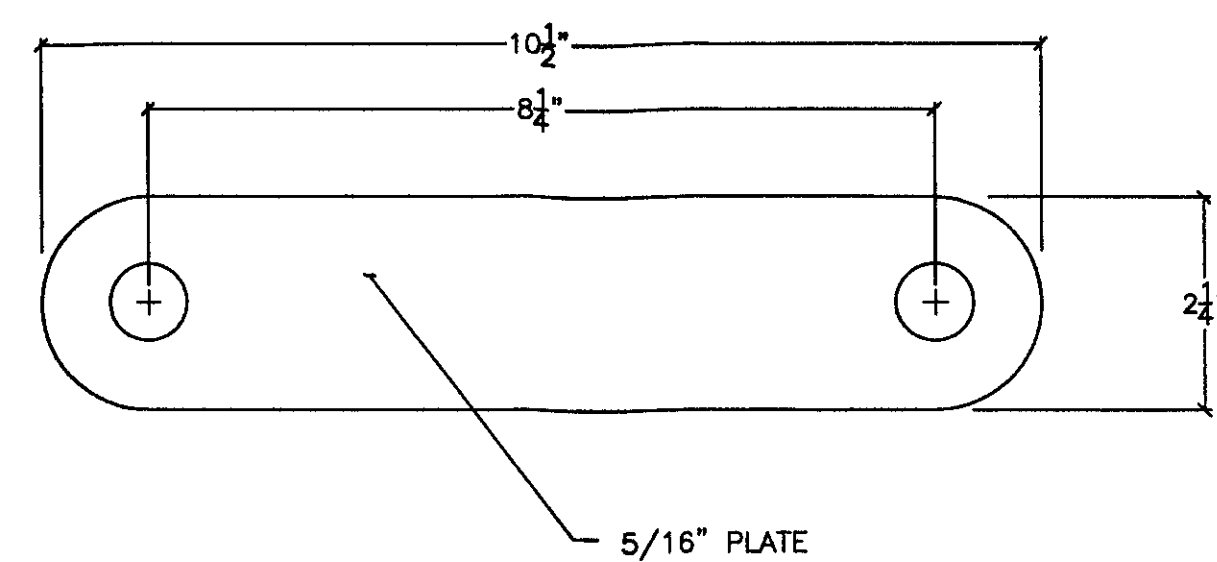
1BA01-ANGLE
3" = 1'-0"



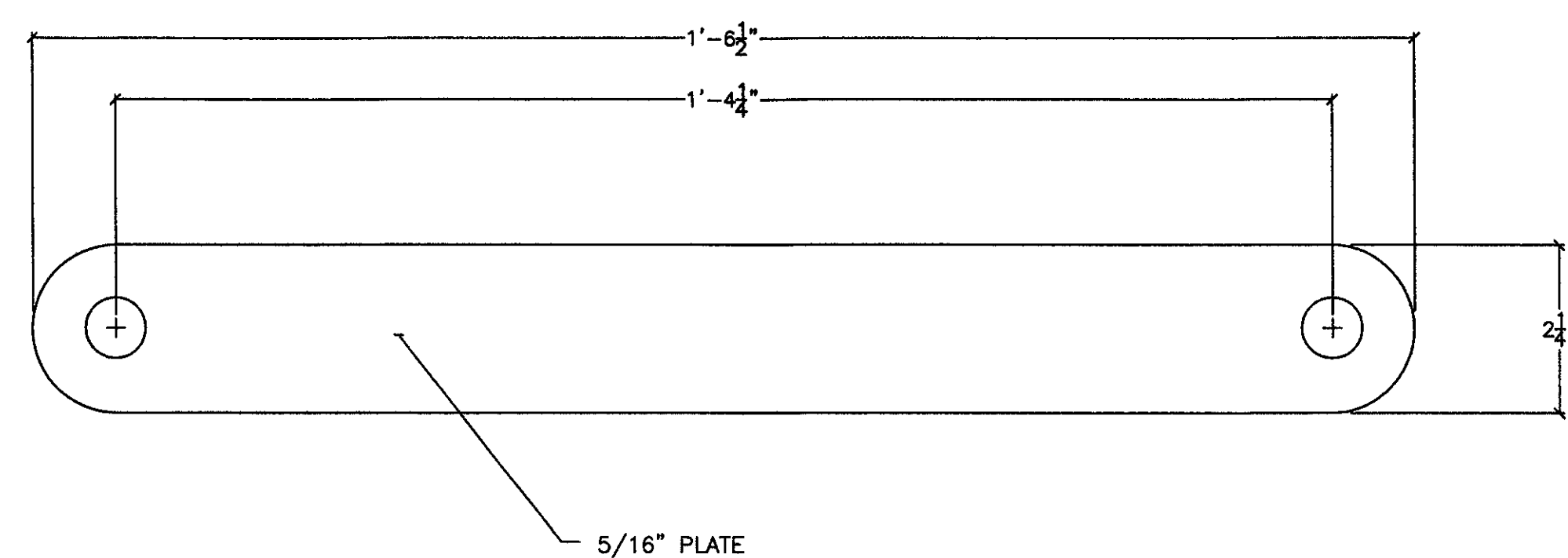
1BA02-ANGLE
3" = 1'-0"

RECEIVED
CK'D BY CWA OK'D BY _____
MAY 11 2011
APPROVED /
BY WJ DATE 5/11/11

Renard Bros Construction Professional Engineer (802) 257-7383	
TITLE Wallingford Bridge Rehab LOCATION Wallingford, VT	DRAWING TITLE Drawings Truss Type 1: Drawings
DRAWN BY JED	JOB CONTACT Eric Foster State of VT
CHECKED BY JED/AD	DATE 4 30 09
DRAWING NO. T-1	
SHEET NO. 3 OF 17	

LATTICE:

1LP01-PLATE

$$1' - 0'' = 1' - 0''$$


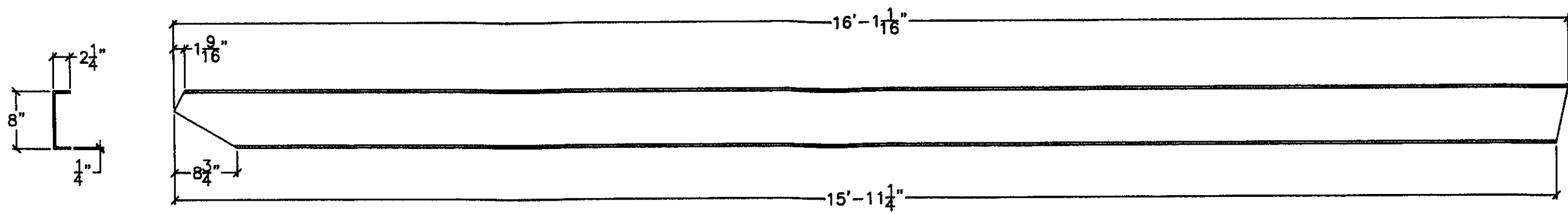
1LP02-PLATE

$$1' - 0'' = 1' - 0''$$

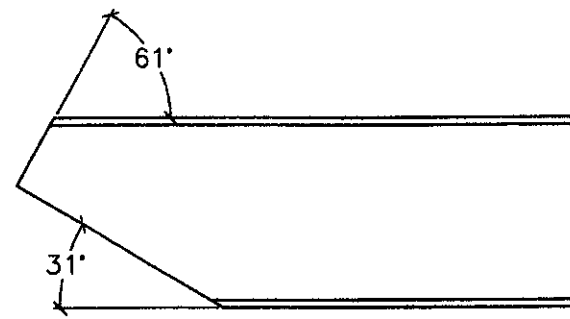
RECEIVED
CK'D BY CWA OK'D BY _____
MAY 11 1961
R _____ APPROVED ☒
BY Wey sh DATE sh/61

TITLE Wallingford Bridge Rehab		Renaud Bros. Construction 10000 Highway 100 (802) 257-7323
LOCATION Wallingford, VT		
DRAWING TITLE Drawings Truss Type 1 Drawings		
DRAWN BY: JED		
JOB CONTACT: Eric Foster State of VT		
SHEET NO. T-1		

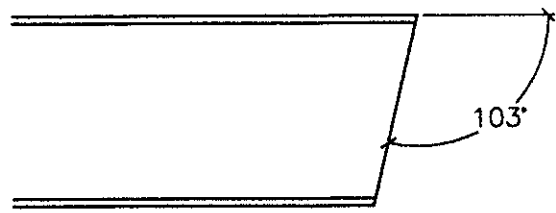
UPPER CHORD:



1LOU1-CHANNEL
1-1/2" = 1'-0"



1LOU1-END DETAIL
3" = 1'-0"

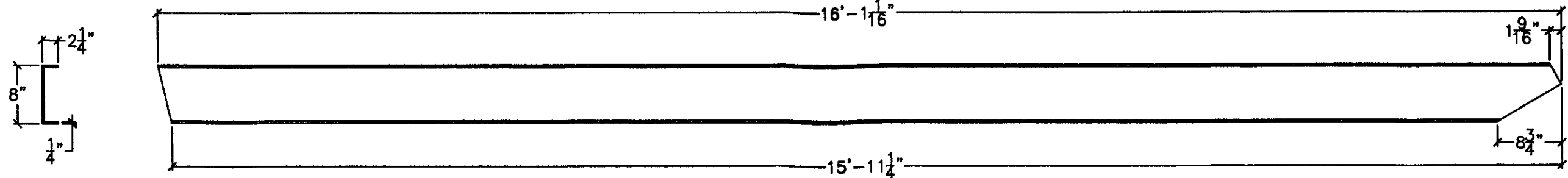


1LOU1-END DETAIL
3" = 1'-0"

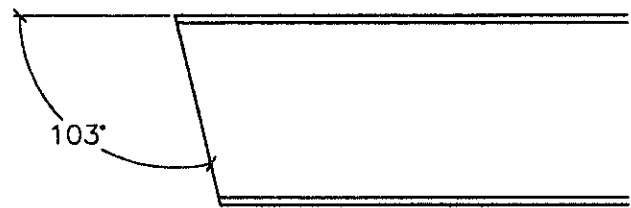
RECEIVED
CHK'D BY: CUB OK'D BY: WY
MAY 11 2011
APPROVED: WY
DATE: 5/11/11

Pleasant Bros. Construction P.O. Box 1000 (802) 257-7283	
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1. Drawings
DRAWN BY	JED
JOB CONTACT	Enck Foster State of VT
CHECKED BY	JED/AD
DATE	4 30 09
DRAWING NO.	T-1
SHEET NO.	5 of 17

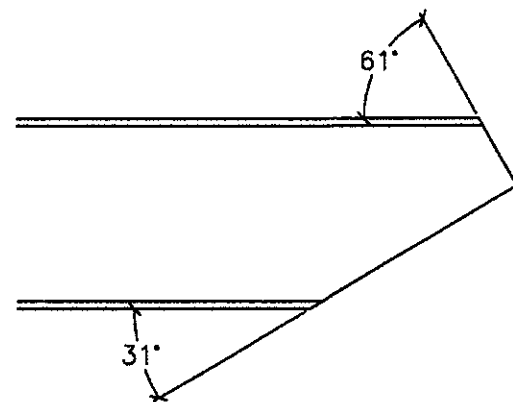
UPPER CHORD:



1L8U7-CHANNEL
1-1/2" = 1'-0"



1L8U7-END DETAIL
3" = 1'-0"

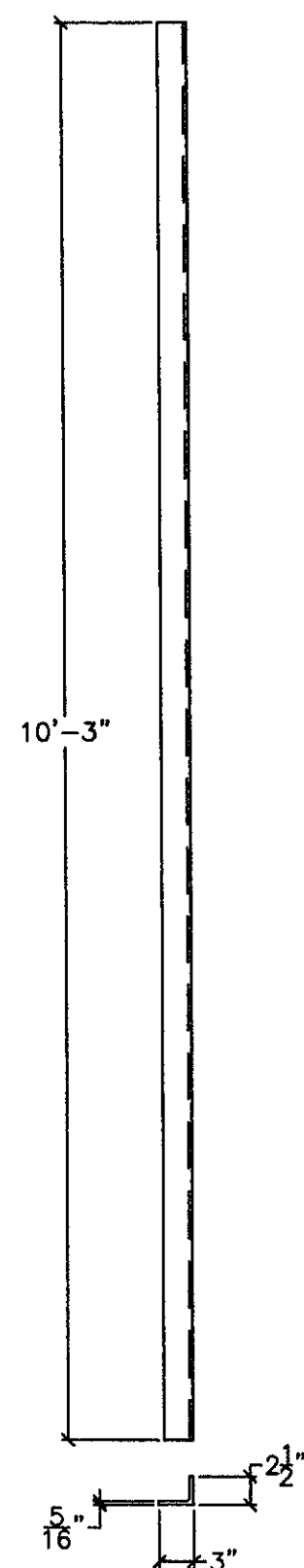


1L8U7-END DETAIL
3" = 1'-0"

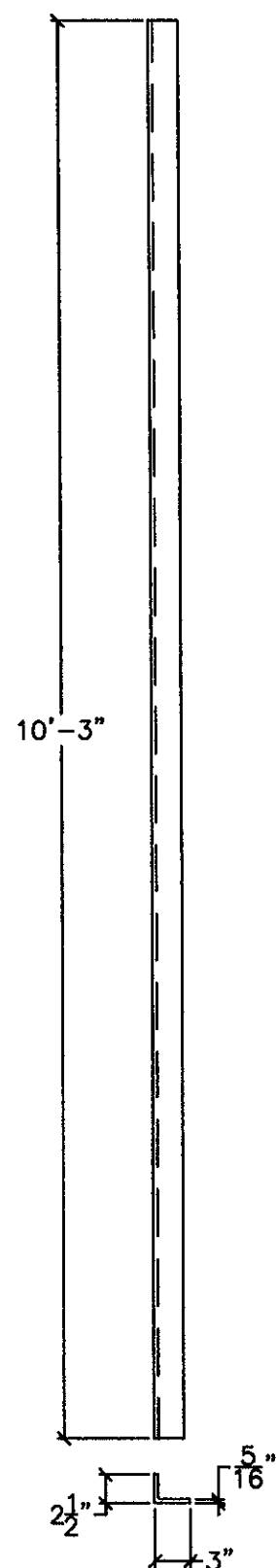
RECEIVED
MAY 11 2011
APPROVED
BY *WJ* DATE 5/11/11

PROJECT: Wallingford Bridge Rehab	LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 1	DRAWN BY: JED	CHECKED BY: JED/AD	DATE: 4/30/09	JOB CONTACT: Enck Foster State of VT
DRAWING NO.	T-1	SHEET NO.	6 OF 17	Enck Foster Construction For Bridge Road Work, VT 05354 (802) 257-7383		

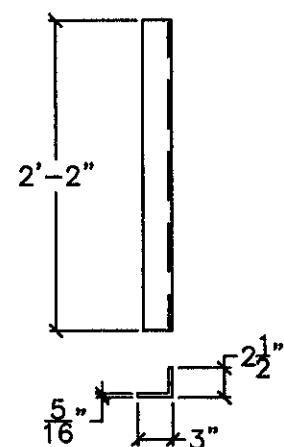
UPRIGHT MEMBERS:



1U2L2L-ANGLE
1-1/2" = 1'-0"



1U2L2R-ANGLE
1-1/2" = 1'-0"

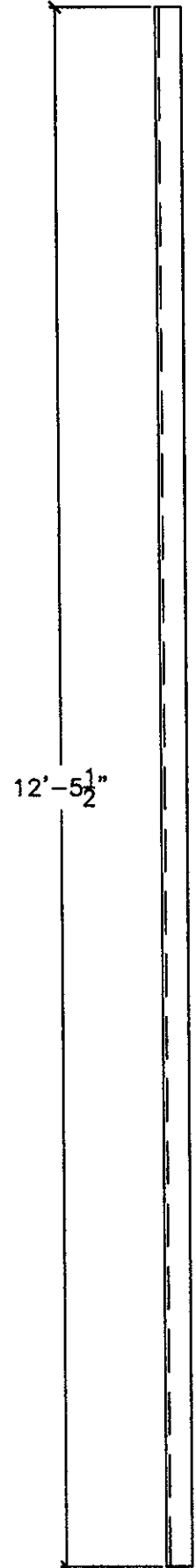


1U3L3L-ANGLE
1-1/2" = 1'-0"

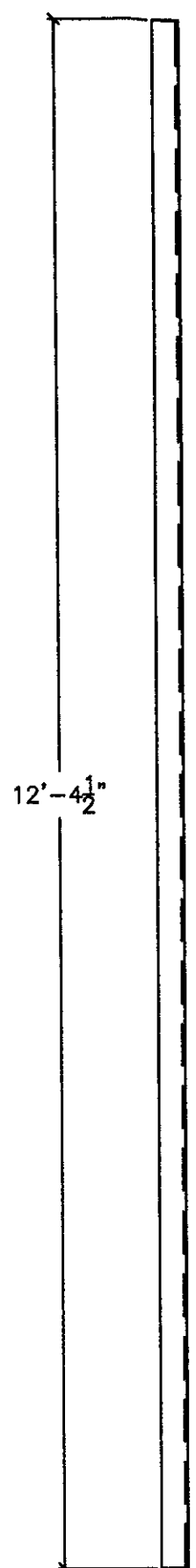
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WY DATE 5/11/09

Renaud Bros. Construction Renaud Bros. Construction (802) 257-7385	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE Drawings Truss Type 1 Drawings	JOB CONTACT Erick Foster State of VT
DRAWN BY JED	CHECKED BY JED/AD
DATE 4 30 09	
DRAWING NO. T-1	
SHEET NO. 7 OF 17	

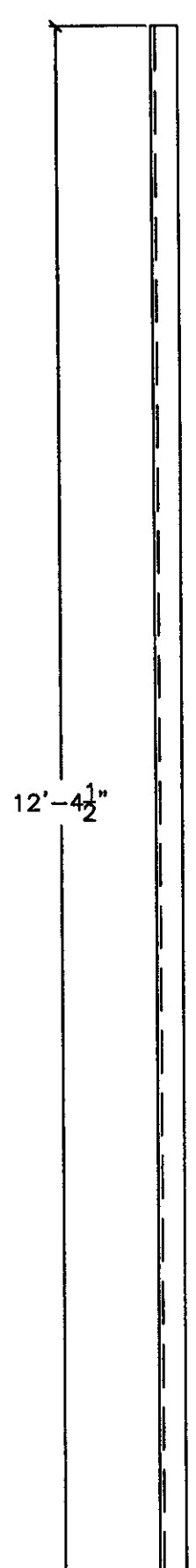
UPRIGHT MEMBERS:



1U3L3R-ANGLE
1-1/2" = 1'-0"



1U4L4L-ANGLE
1-1/2" = 1'-0"

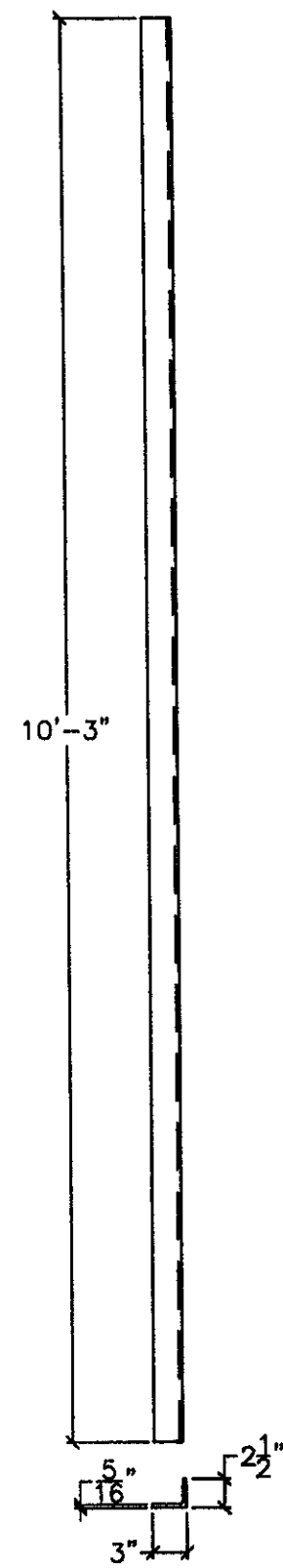


1U4L4R-ANGLE
1-1/2" = 1'-0"

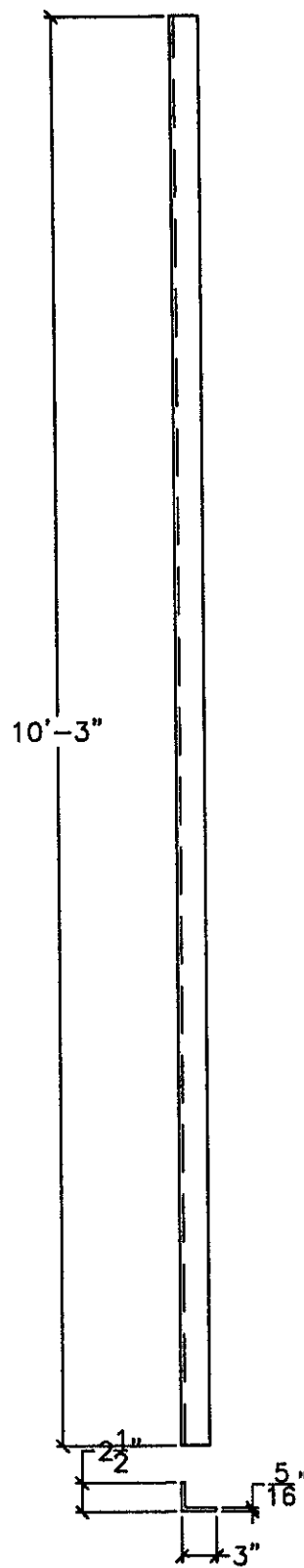
RECEIVED
CHK'D BY: CHH OK'D BY: _____
MAY 1 1 2009
BY: WJ DATE: 5/1/09

Renaud Bros. Construction Wallingford, VT (802) 257-7983	
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1 Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 09
JOB CONTACT: Erick Foster State of VT	
DRAWING NO.	
T-1	
SHEET NO.	
8 of 17	

UPRIGHT MEMBERS:



1U6L6L-ANGLE
1-1/2" = 1'-0"

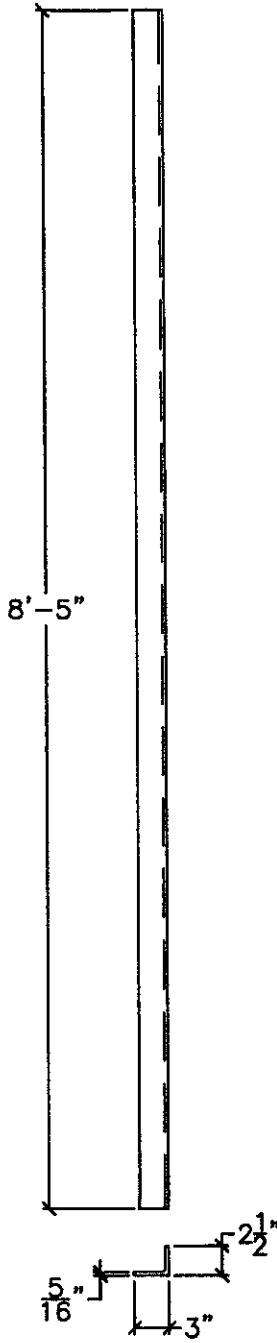


1U6L6R-ANGLE
1-1/2" = 1'-0"

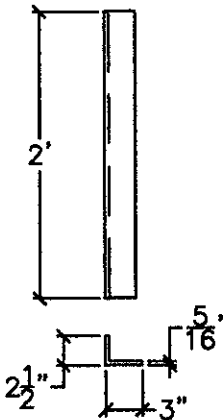
RECEIVED
OK'D BY CJA OK'D BY _____
MAY 11 2004
BY WJ DATE 5/19/04

Renaud Bros. Construction Renaud Bros. Construction (802) 257-7383	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE Drawings Truss Type 1 Drawings	
DRAWN BY JED	JOB CONTACT Erik Foster State of VT
CHECKED BY JED/AD	DATE 4 30 09
DRAWING NO. T-1	
SHEET NO. 9 of 17	

UPRIGHT MEMBERS:



1U7L7L-ANGLE
1-1/2" = 1'-0"

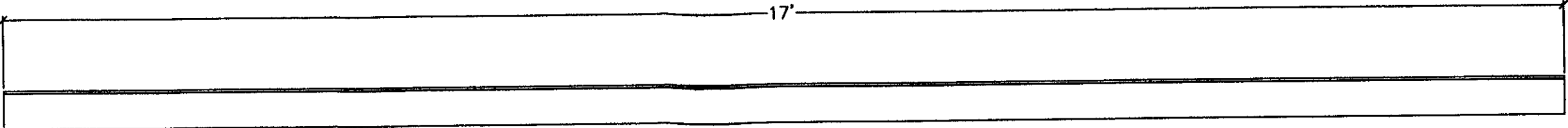
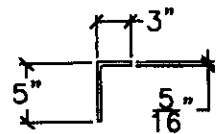


1U7L7R-ANGLE
1-1/2" = 1'-0"

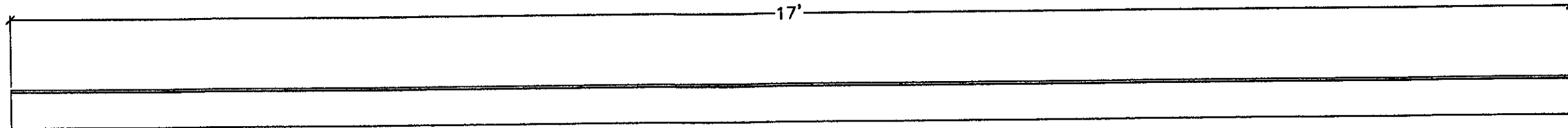
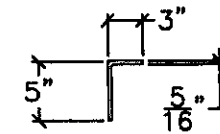
RECEIVED
CHK'D BY CWA OK'D BY _____
MAY 11 2009
BY WJ/SJ DATE 5/11/09

Renaud Bros. Construction Renaud Bros. Construction (802) 257-7393	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING TITLE: Drawings Truss Type 1	Drawings
DRAWN BY: JED	JOB CONTACT: Erik Foster State of VT
CHECKED BY: JED/AD	DATE: 4 30 09
DRAWING NO.: T-1	
SHEET NO.: 10 of 17	

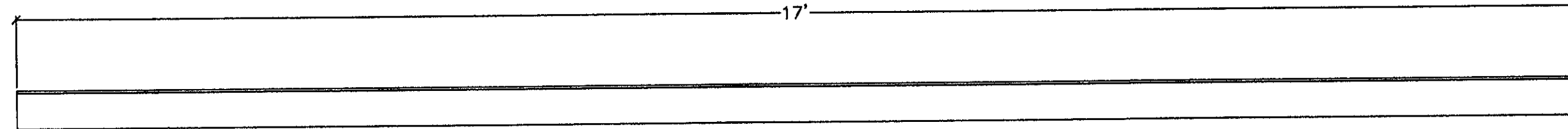
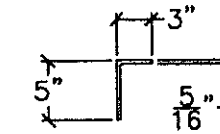
UPRIGHT MEMBERS:



1DM01-ANGLE
1-1/2" = 1'-0"



1DM02-ANGLE
1-1/2" = 1'-0"

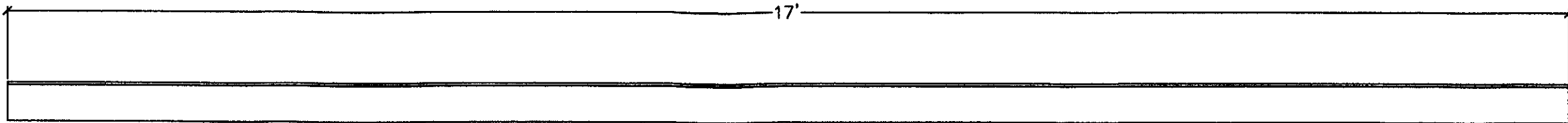
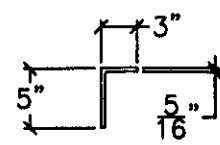


1DM03-ANGLE
1-1/2" = 1'-0"

RECEIVED
CHK'D BY CNA OK'D BY _____
MAY 11 2009
BY WY Sp APPROVED ✓
DATE 5/11/09

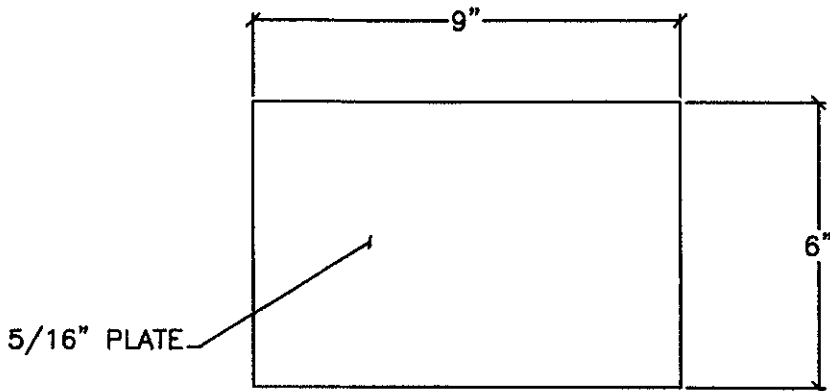
Renard Bros. Construction Fort Bridgman Road, Vermont, VT 05354 (802) 257-7363	
TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1 Drawings
DRAWN BY	JED
JOB CONTACT	Enck Foster State of VT
CHECKED BY	JED/AD
DATE	4 30 09
DRAWING NO.	T-1
SHEET NO.	11 of 17

UPRIGHT MEMBERS:



1DM04-ANGLE

1-1/2" = 1'-0"



- plates similar for U362, U364, U564 and U566

1DM05-PLATE

3" = 1'-0"

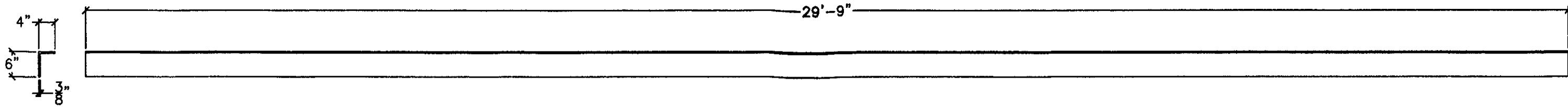
RECEIVED
CHK'D BY CHP OK'D BY _____

MAY 11 2009

BY WJ DATE 5/4/09

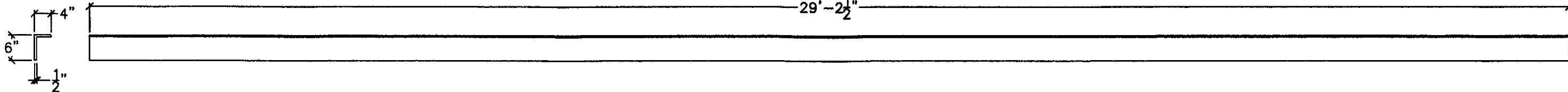
Renaud Bros. Construction Renaud Bros. Construction (802) 257-7285	
PROJECT	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1. Drawings
DRAWN BY	JEH
CHECKED BY	JEH/AD
DATE	4.30.08
DRAWING NO.	T-1
SHEET NO.	12 OF 17

BOTTOM CHORD:



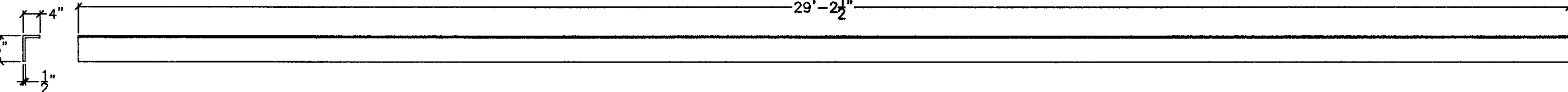
1L2L4A-ANGLE

1" = 1'-0"



1L2L4A-ANGLE

1" = 1'-0"



1L2L4B-ANGLE

1" = 1'-0"

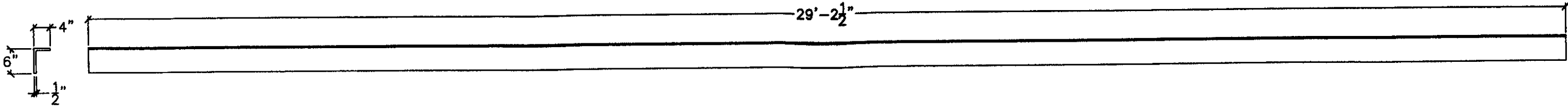
RECEIVED
CHK'D BY CWA OK'D BY _____

MAY 11 2009

BY WJ DATE 5/29/09

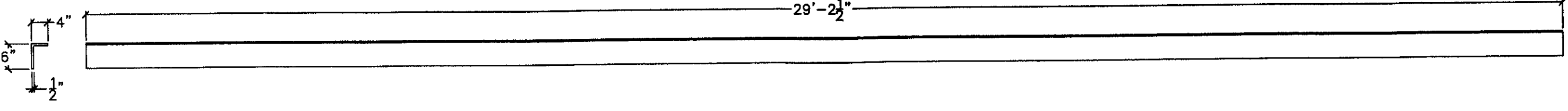
Renard Bros. Construction Renard Bros. Construction (802) 257-7353	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING TITLE: Drawings Truss Type 1 Drawings	DRAWN BY: JED
CHECKED BY: JED/AD	DATE: 4/30/09
JOB CONTACT: Erick Foster State of VT	
DRAWING NO.: T-1	
SHEET NO.: 13 OF 17	

BOTTOM CHORD:



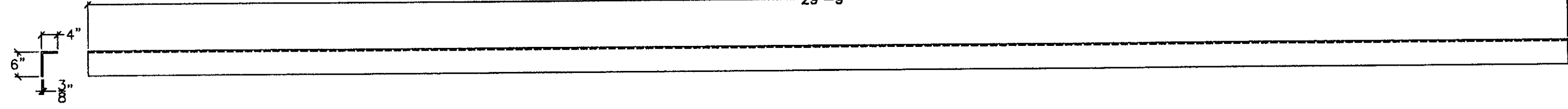
1L4L6A-ANGLE

1" = 1'-0"



1L4L6B-ANGLE

1" = 1'-0"



1L6L8A-ANGLE

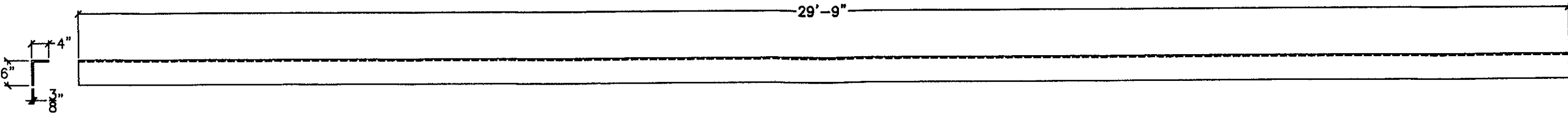
1" = 1'-0"

RECEIVED
OK'D BY: CWA OK'D BY: _____
MAY 11 2009

BY: WY DATE: 5/11/09
APPROVED: _____
DATE: _____

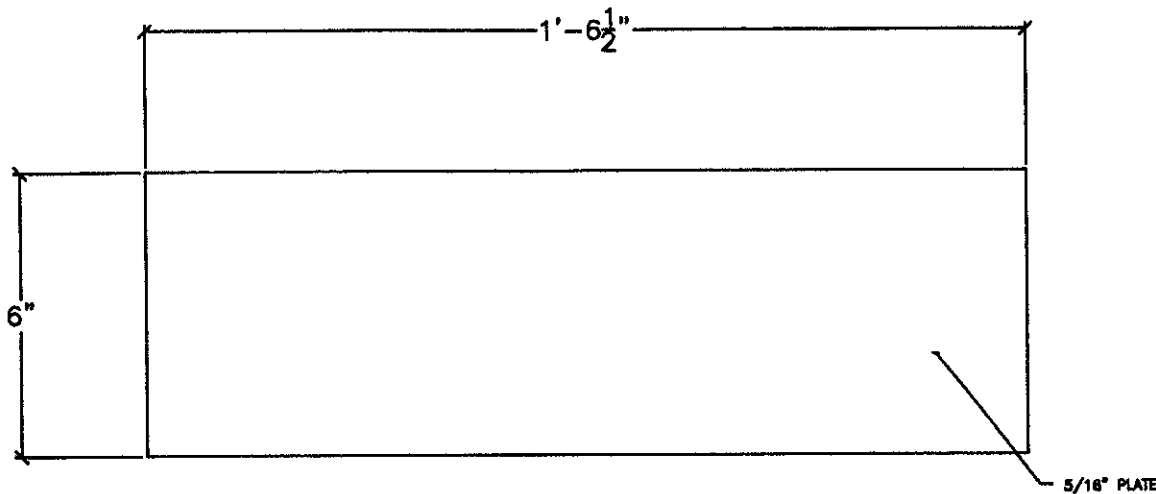
Title Wallingford Bridge Rehab		Location Wallingford, VT		Drawing Title Drawings Truss Type 1- Drawings		Job Contact Erick Foster State of VT		Date 4 30 09	
Drawing No. T-1		Sheet No. 14 of 17		Revised Date Construction For Bridge Rehab, Wallingford, VT 05364 (802) 257-7383					

BOTTOM CHORD:



1L6L8B-ANGLE

1" = 1'-0"



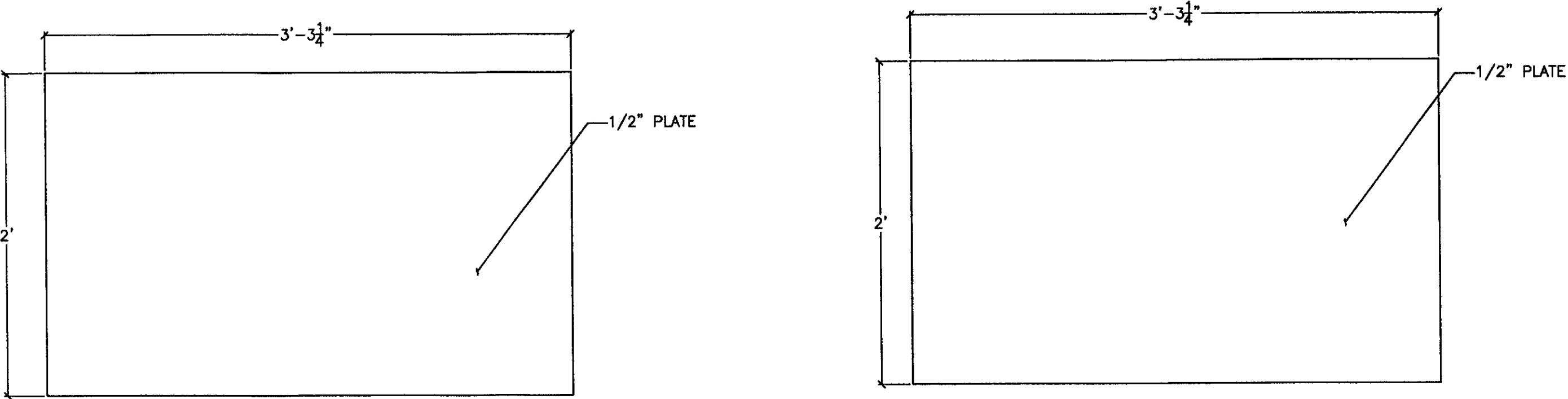
1BC01-PLATE

3" = 1'-0"

RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WY g DATE 5/11/09

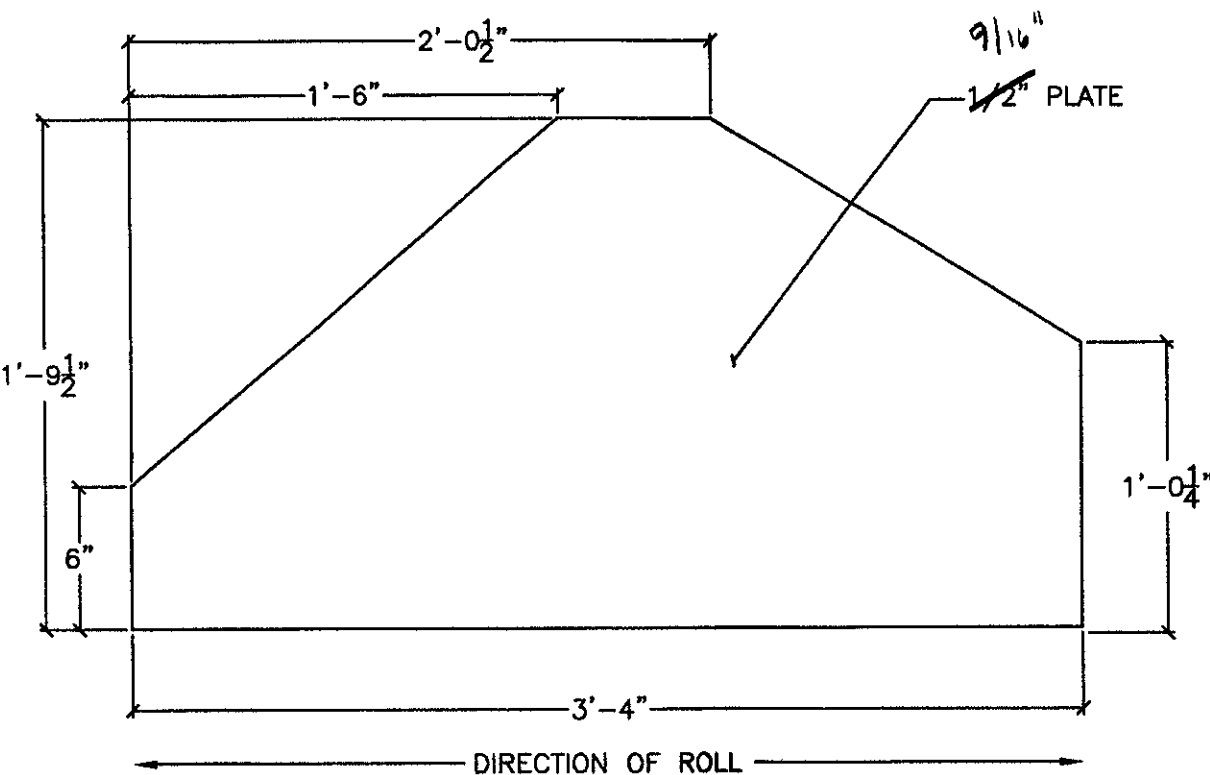
Renard Bros. Construction For Bridge Rep. Vermont, VT 0554 (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING TITLE: Drawings Truss Type 1 Drawings	DRAWN BY: JED
JOB CONTACT: Erick Foster State of VT	CHECKED BY: JED/AD
DATE: 4/30/09	
DRAWING NO.:	T-1
SHEET NO.:	15 OF 17

GUSSET PLATES:



1GP01
3" = 1'-0"

1GP02
3" = 1'-0"



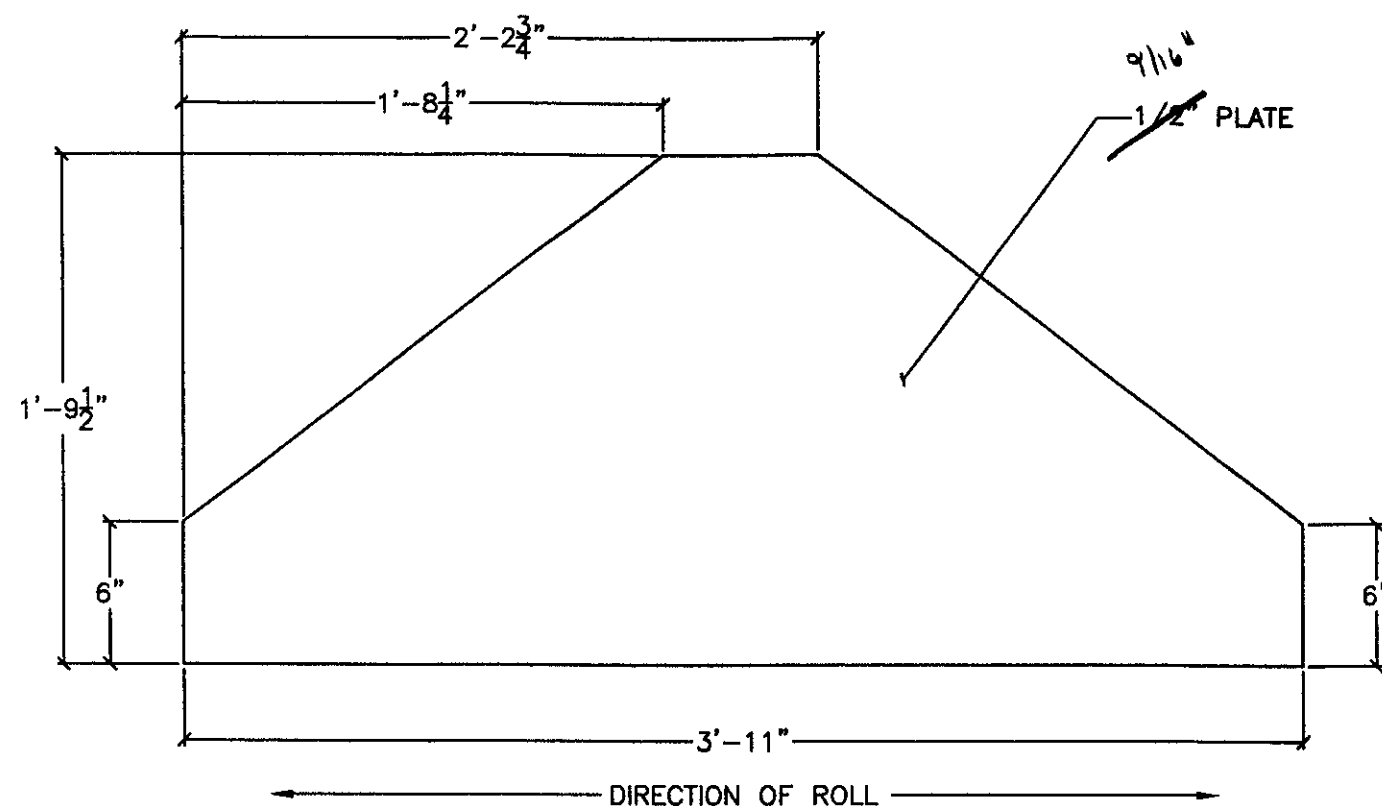
1GP03
3" = 1'-0"

RECEIVED
CHK'D BY CWA OK'D BY _____

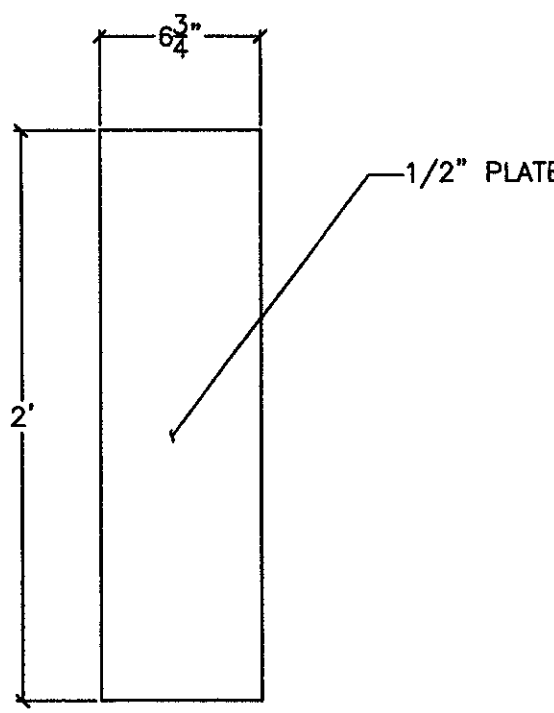
MAY 11 2009
BY WY DATE 5/11/09

Project: Wallingford Bridge Rehab Location: Wallingford, VT	
Drawings Title: Drawings Truss Type 1	Drawings No.: T-1
Drawn By: JED	Checked By: JED/AD
Job Contact: Erick Foster State of VT	Date: 4/30/09
Sheet No.: 16 of 17	

GUSSET PLATES:



1GP04
3" = 1'-0"



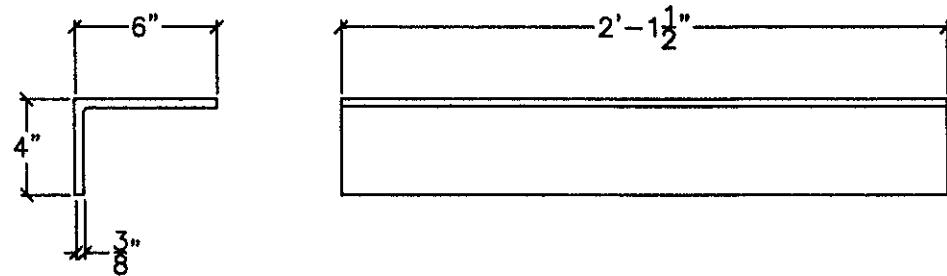
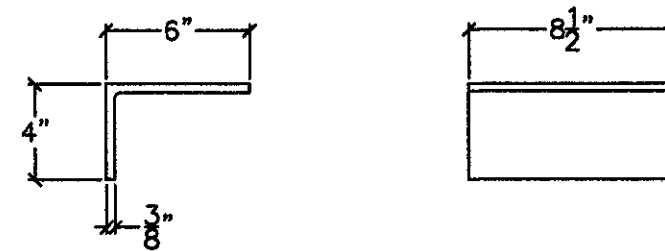
1GP05
3" = 1'-0"

RECEIVED
OK'D BY: CHM OK'D BY: _____
MAY 11 2009
BY: WJ DATE: 5/11/09

Renard Bros. Construction Fort Belknap Road, Helena, MT 59604 (406) 257-7383	
Wellington Bridge Rehab Wellington, VT	
PROJECT TITLE Drawings Truss Type 1 Drawings	
DRAWN BY: JED	JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD	DATE: 4 30 09
DRAWING NO.	T-1
SHEET NO.	17 OF 17

- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL HOLES DRILLED IN NEW FABRICATED STEEL, TO MATCH EXISTING STEEL MEMBERS
- * ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-270 GRADE 50
- * UNLESS OTHERWISE NOTED, ALL HOLES SHALL BE DRILLED TO $\frac{1}{8}$ " DIA
- * DIMENSIONS LESS THAN 25'-0" $\pm \frac{1}{8}$ "
- * DIMENSIONS GREATER THAN 25'-0" $\pm \frac{1}{4}$ "
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS TRUSS TYPE 1 & 2.
- * ***PAINT SYSTEM TO BE USED.***

NOTE: HORIZONTAL LATERAL BRACING / FLOOR BEAM CONNECTION PLATES, SCHEDULED FOR REPLACEMENT AT L0, L2, L4, L6 & L8 ARE NOT INCLUDED IN THIS SET.

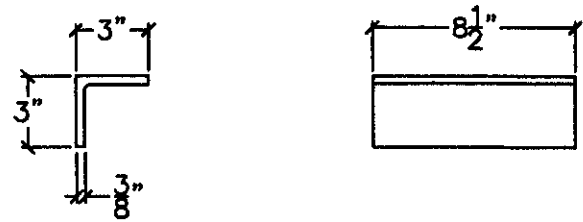

$$3'' = 1' - 0''$$

$$3'' = 1' - 0''$$

**NOTE: FOR FUTURE SUBMITTALS
PLEASE PROVIDE BILL OF
MATERIALS, INCLUDING
FASTENERS, ON THE SHEETS
WITH DETAILS.**

RECEIVED
CK'D BY CWA OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED As Not
BY SA DATE 5/14/09
why

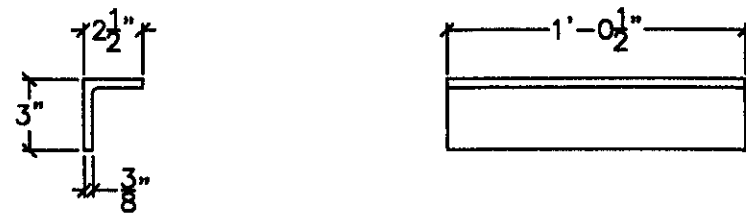
DRAWING NO.		T-2	
SHEET NO.		1 OF 18	
TITLE		Wallingford Bridge Rehab	
LOCATION		Wallingford, VT	
DRAWING TITLE		Truss Type 2: General Notes & Drawings	
DRAWN BY	JED	JOB CONTACT	Enck Foster State of VT
CHECKED BY	JED/AO	DATE	4 30 09

BEARING PEDESTAL CONT.:



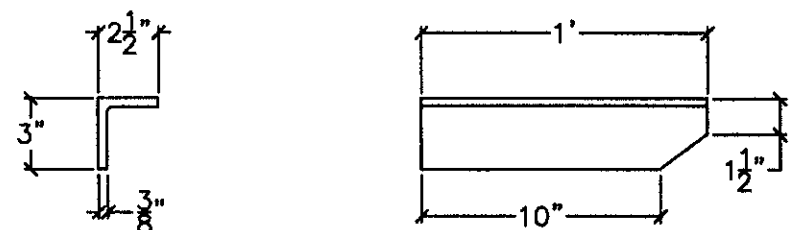
2BP04-ANGLE

3" = 1'-0"



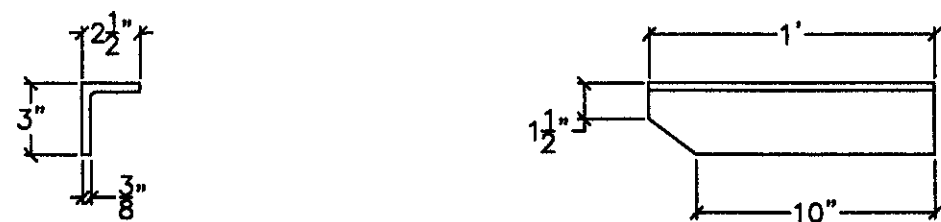
2BP05-ANGLE

3" = 1'-0"



2BP06R-ANGLE

3" = 1'-0"



2BP06L-ANGLE

3" = 1'-0"

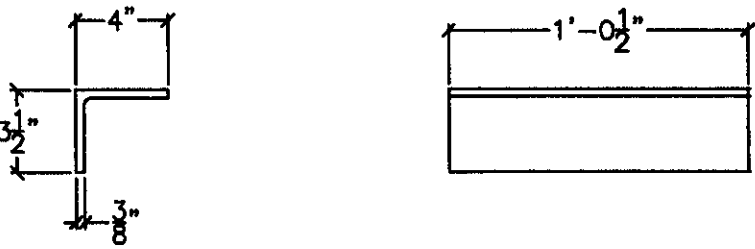
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
R. SUEWIT _____ APPROVED As Noted
BY WJ DATE 5/16/11

Pinnard Bros. Construction Pinnard Bros. Construction (802) 257-7893	
TITLE Wallingford Bridge Rehab	LOCATION Wallingford, VT
DRAWING TITLE Drawings Truss Type 2: Drawings	DRAWN BY: <u>JEED</u> JOB CONTACT: <u>Eric Foster State of VT</u>
CHECKED BY: <u>JEED/AD</u> DATE: <u>4.30.09</u>	
DRAWING NO.	SHEET NO.
	T-2
	2 of 18

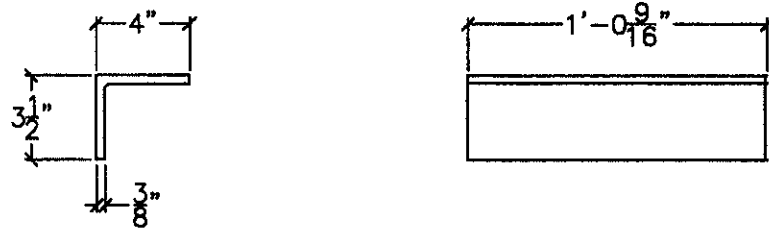
BEARING PEDESTAL CONT.:

TBD WHEN REMOVED
DWG. SUBMITTED FOR
APPROVAL

2BP07-PLATE
3" = 1'-0"



2BA01-ANGLE
3" = 1'-0"

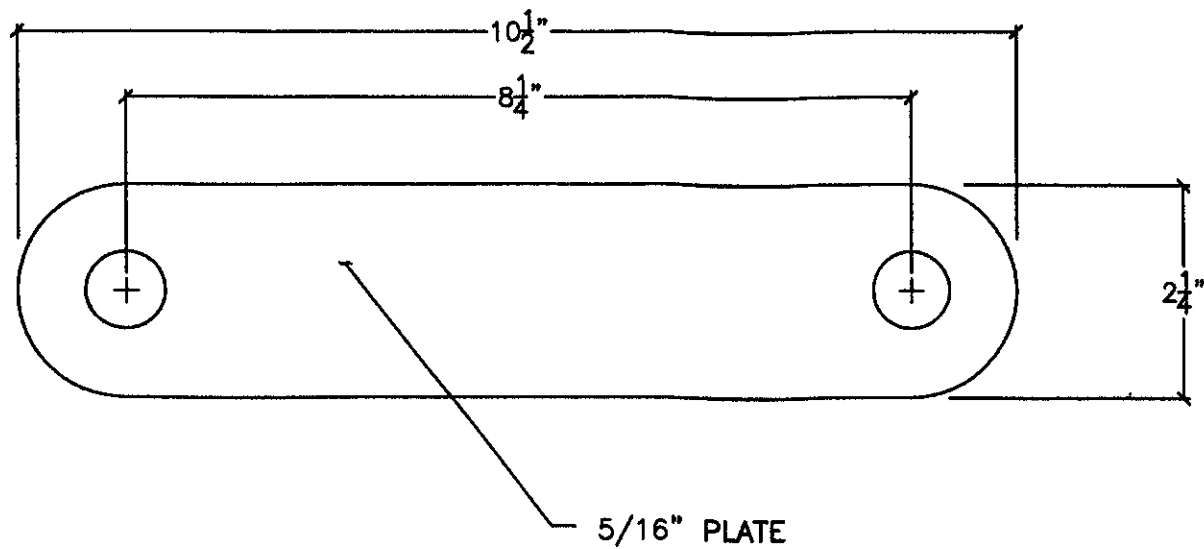


2BA02-ANGLE
3" = 1'-0"

RECEIVED
OK'D BY CHS OK'D BY _____
MAY 11 2009
R. SUEWIT _____ APPROVED As WY
BY WY DATE 5/11/09

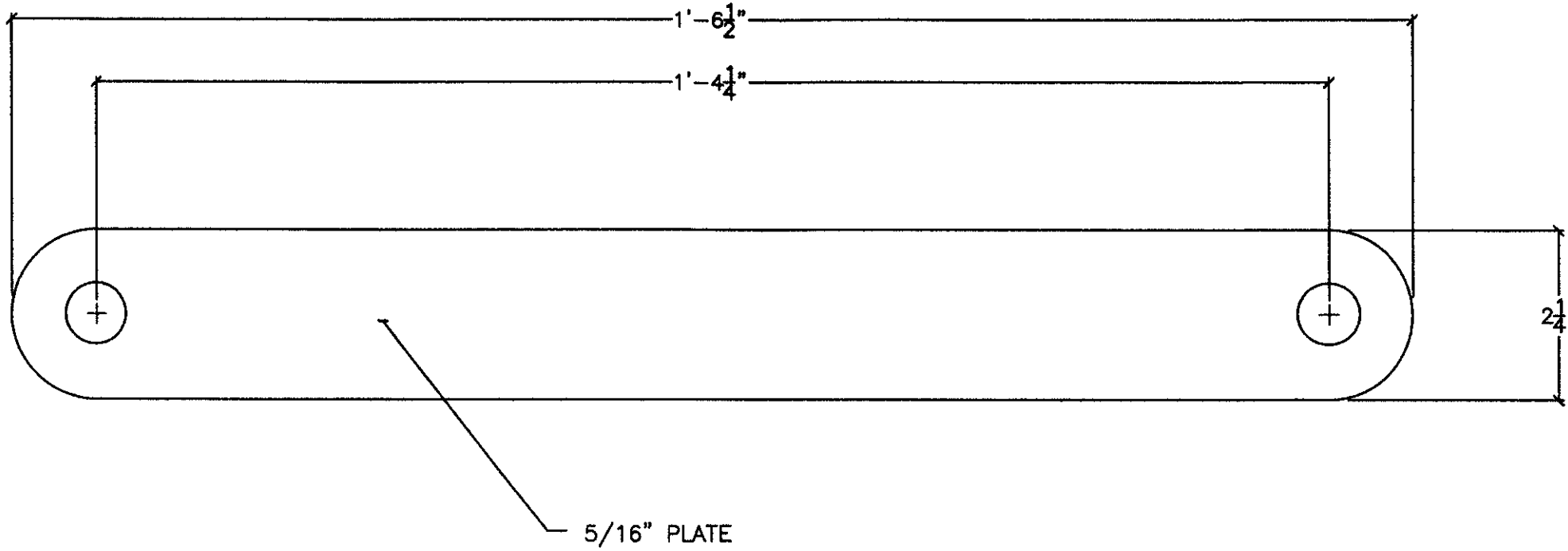
FILE	LOCATION	Wallingford Bridge Rehab Wallingford, VT	RENAUD BROS. CONSTRUCTION RENAUD BROS. CONSTRUCTION 1000 W. MAIN ST. WALLINGFORD, VT 05793 (802) 257-1285
DRAWING TITLE	DRAWING NO.	DRAWINGS TRUSS TYPE 2: DRAWINGS	
DRAWN BY	JED	JOB CONTACT	ERICK FORTER STATE OF VT
CHECKED BY	JED/AD	DATE	4-30-09
SHEET NO.			T-2
			3 OF 18

LATTICE:



2LP01-PLATE

3" = 1'-0"



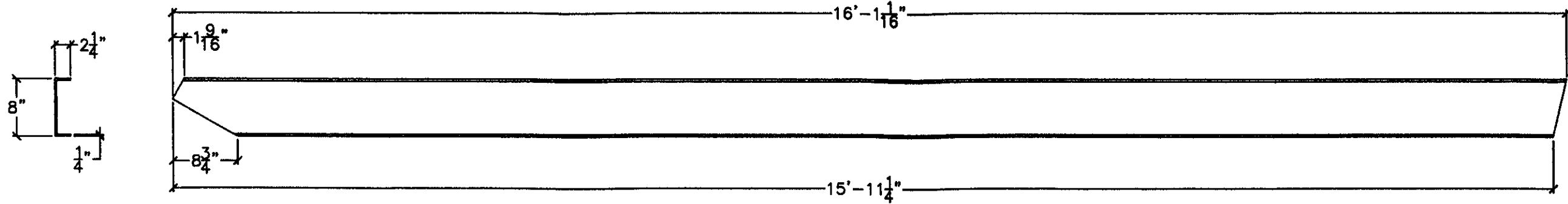
2LP02-ANGLE

3" = 1'-0"

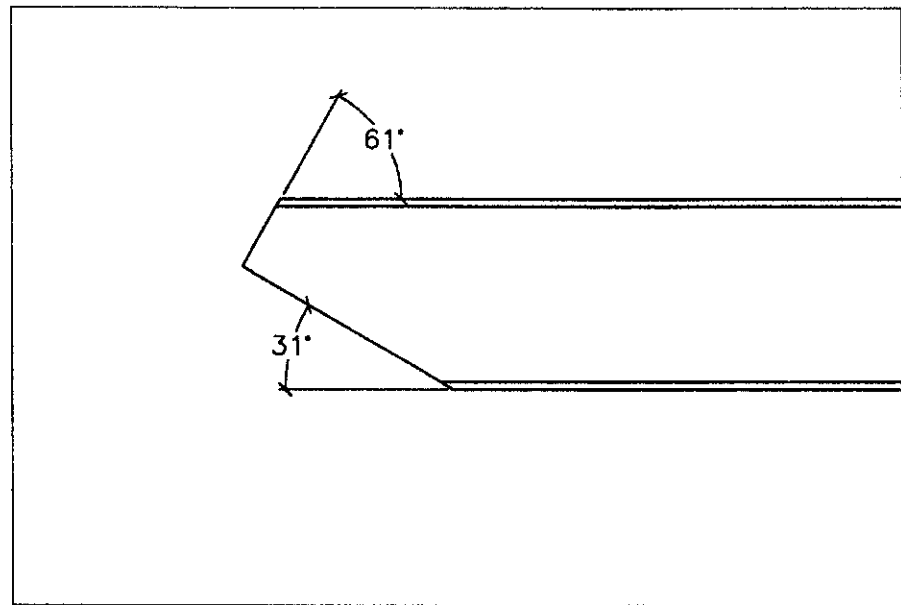
RECEIVED
CK'D BY CW OK'D BY _____
MAY 11 2009
R SUBMIT _____ APPROVED As Noted
BY WY 5/11 DATE 5/11/09

Pineau Bros. Construction Pineau Bros. Construction (802) 257-7383	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE	Drawings Truss Type 2: Drawings
DRAWN BY	JED
CHECKED BY	ED/AD
DATE	4 30 09
DRAWING NO.	T-2
SHEET NO.	4 OF 18

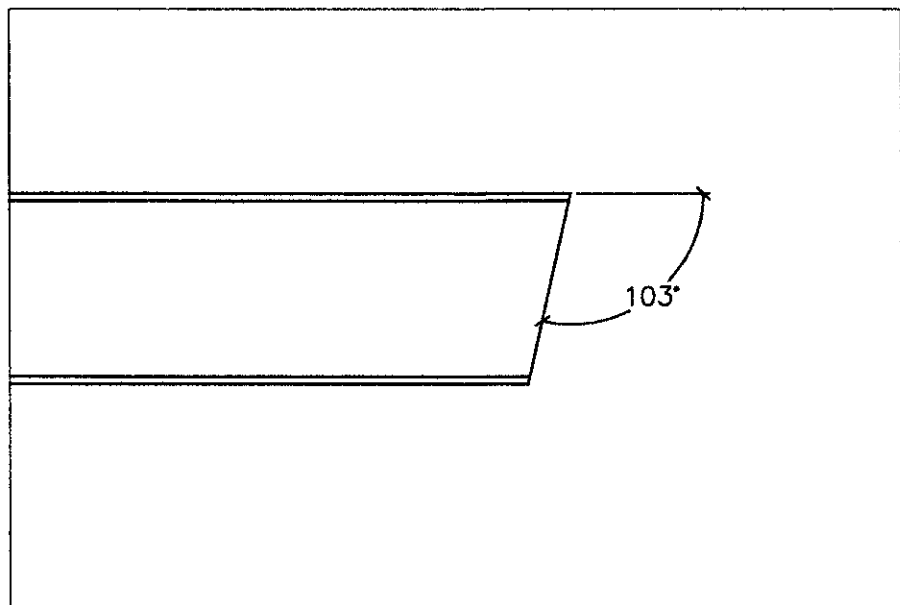
UPPER CHORD:



2L8U7-CHANNEL
1-1/2" = 1'-0"



2L8U7-END DETAIL
3" = 1'-0"

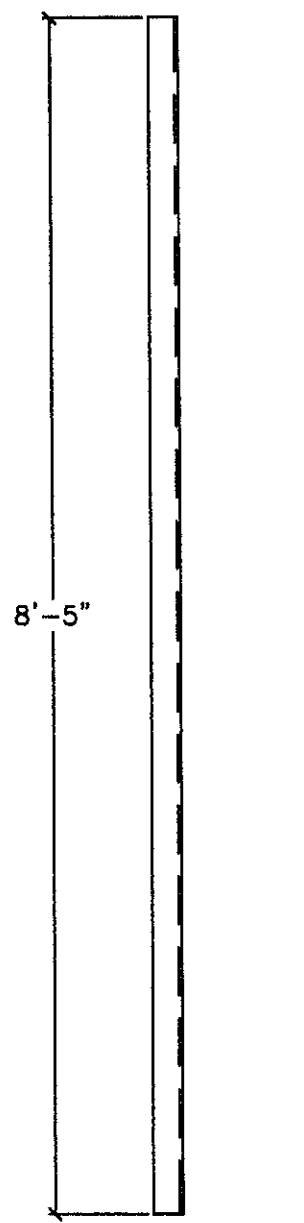


2L8U7-END DETAIL
3" = 1'-0"

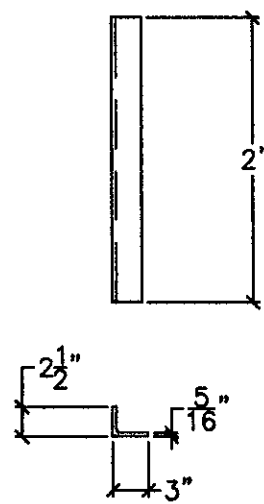
RECEIVED
OK'D BY CH OK'D BY _____
MAY 11 2009
BY WY DATE 5/11/09
APPROVED AS

FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 09
JOB CONTACT	Erick Foster State of VT
RENAUD BROS. CONSTRUCTION RENAUD BROS. CONSTRUCTION RENAUD BROS. CONSTRUCTION (802) 257-7335	
DRAWING NO.	T-2
SHEET NO.	5 OF 18

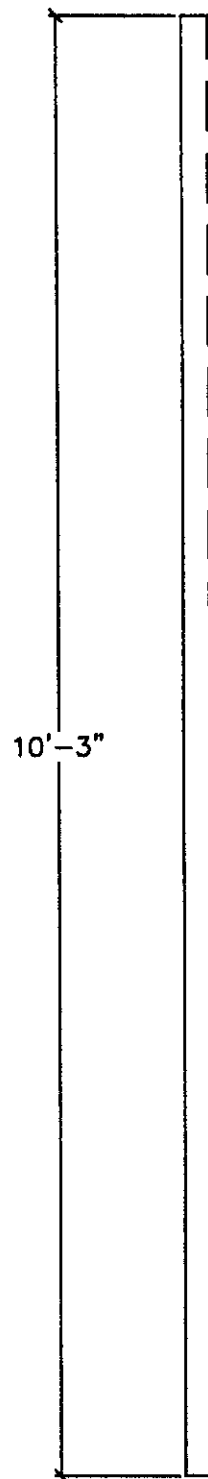
UPRIGHT MEMBERS:



2U1L1L-ANGLE
1-1/2" = 1'-0"



2U1L1R-ANGLE
1-1/2" = 1'-0"

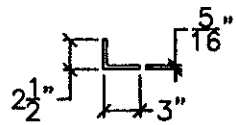
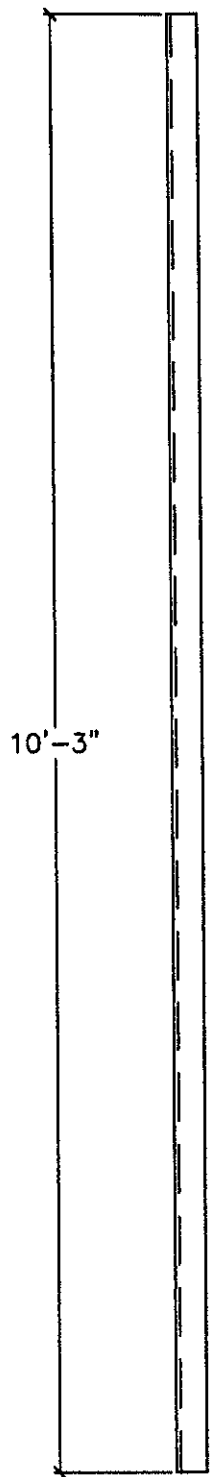


2U2L2L-ANGLE
1-1/2" = 1'-0"

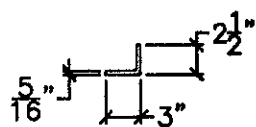
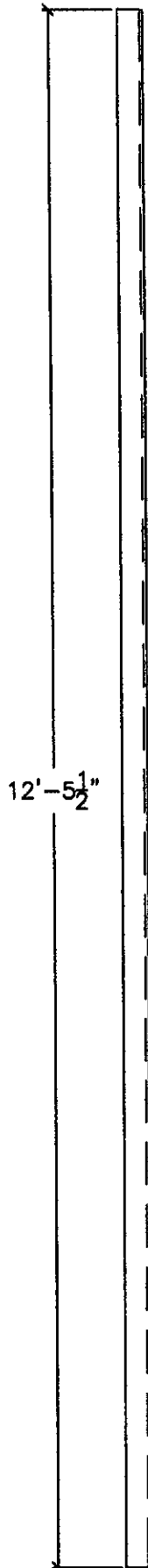
RECEIVED
CHK'D BY CHB OK'D BY _____
MAY 11 2013
R. L. G. MITT APPROVED As Noted
BY WJ DATE 5/16/13

FILE	Wallingford Bridge Rehab	Renard Bros. Construction Renard, Vermont 05068 (802) 257-7285
LOCATION	Wallingford, VT	
DRAWING TITLE	Drawings Truss Type 2 Drawings	
DRAWN BY	JED	Job CONTACT
CHECKED BY	JED/AD	DATE 4 30 09
DRAWING NO.	T-2	
SHEET NO.	6 of 18	

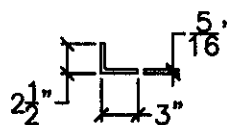
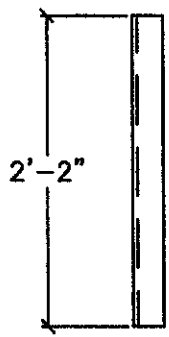
UPRIGHT MEMBERS:



2U2L2R-ANGLE
1-1/2" = 1'-0"



2U3L3L-ANGLE
1-1/2" = 1'-0"

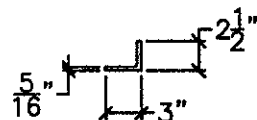
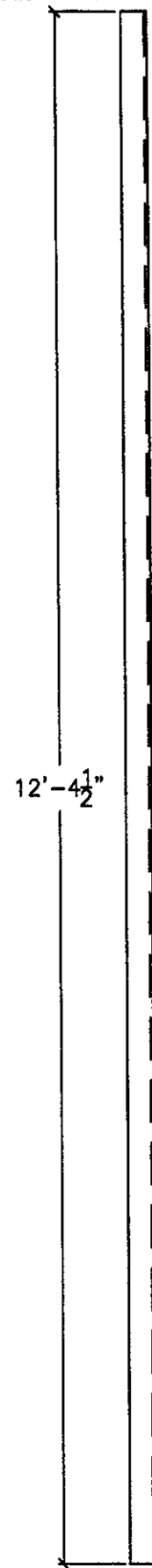


2U3L3R-ANGLE
1-1/2" = 1'-0"

RECEIVED
CK'D BY CMB OK'D BY _____
MAY 11 2009
BY WJ DATE 5/11/09
APPROVED As Noted

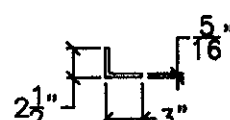
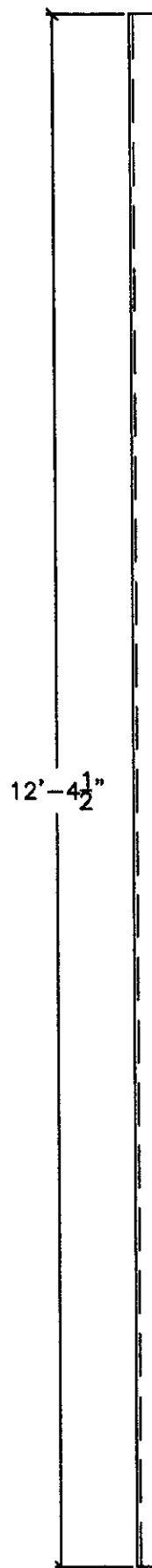
TITLE Wallingford Bridge Rehab		Rehab Eros. Construction Wallingford, Vermont (802) 257-7393	
LOCATION Wallingford, VT			
DRAWING TITLE Drawings Truss Type 2: Drawings			
DRAWN BY: <u>SED</u>	JOB CONTACT: <u>Erick Foster</u>	STATE of <u>VT</u>	
CHECKED BY: <u>SED/AD</u>	DATE: <u>4-30-09</u>		
DRAWING NO.		T-2	
SHEET NO.		7 of 18	

UPRIGHT MEMBERS:



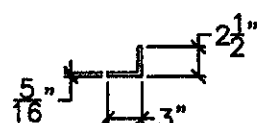
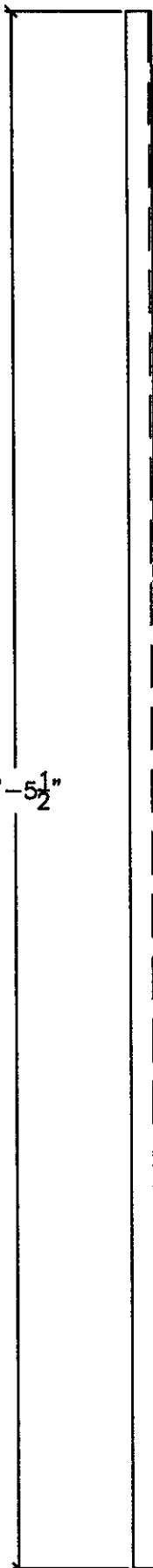
2U4L4L-ANGLE

1-1/2" = 1'-0"



2U4L4R-ANGLE

1-1/2" = 1'-0"



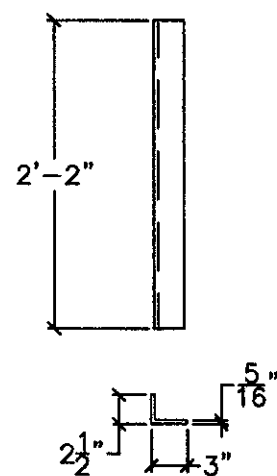
2U5L5L-ANGLE

1-1/2" = 1'-0"

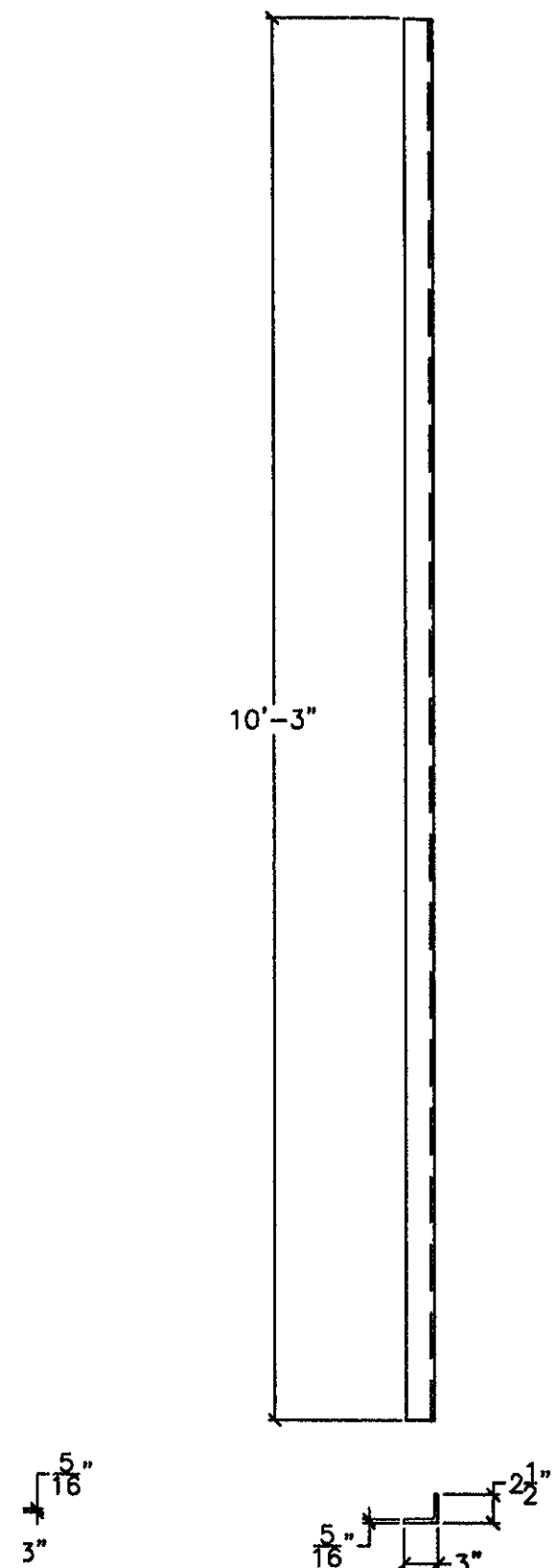
RECEIVED
OK'D BY CJA OK'D BY _____
MAY 1 1 2009
BY WJ DATE 5/1/09
APPROVED AS

FILE	Wallingford Bridge Rehab	Renald Bros Construction
LOCATION	Wallingford, VT	Renald Bros Construction
DRAWING TITLE	Drawings Truss Type 2: Drawings	Renald Bros Construction
DRAWN BY	JED	Renald Bros Construction
CHECKED BY	JED/AD	Renald Bros Construction
DATE	4 30 09	Renald Bros Construction
JOB CONTACT	Ernst Foster State of VT	Renald Bros Construction
DATE	4 30 09	Renald Bros Construction
DRAWING NO.	T-2	Renald Bros Construction
SHEET NO.	8 of 18	Renald Bros Construction

UPRIGHT MEMBERS:

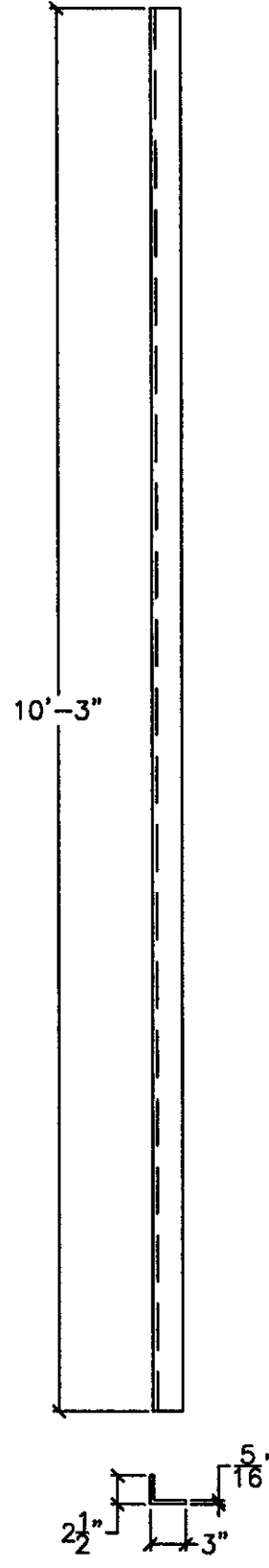


2U5L5R-ANGLE
1-1/2" = 1'-0"



2U6L6L-ANGLE
1-1/2" = 1'-0"

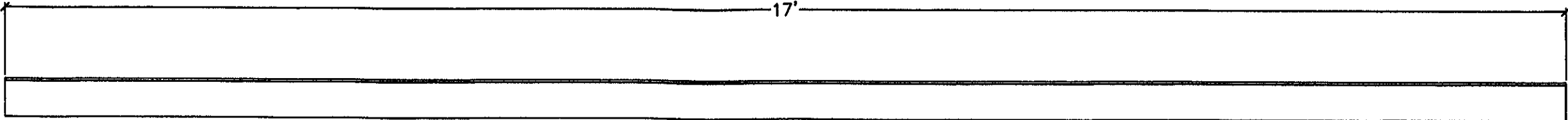
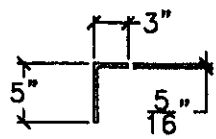
RECEIVED
OK'D BY CMA OK'D BY _____
MAY 11 2009
APPROVED A. M. H.
BY WY DATE 5/11/09



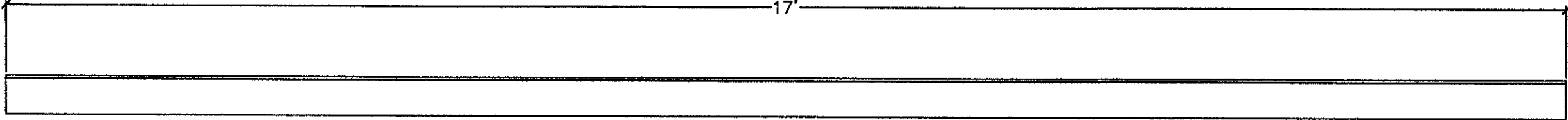
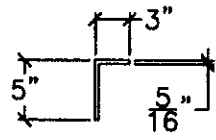
2U6L6R-ANGLE
1-1/2" = 1'-0"

FILE	Wallingford Bridge Rehab	Renard Bros. Construction
LOCATION	Wallingford, VT	Renard Bros. Construction
DRAWING TITLE	Drawings Truss Type 2: Drawings	Renard Bros. Construction
DRAWN BY	JED	Renard Bros. Construction
CHECKED BY	JED/AD	Renard Bros. Construction
DATE	4.30.09	Renard Bros. Construction
JOB CONTACT	Ernst Foster State of VT	Renard Bros. Construction
DATE	4.30.09	Renard Bros. Construction
SHEET NO.	T-2	Renard Bros. Construction
	9 of 18	Renard Bros. Construction

UPRIGHT MEMBERS:



2DMO1-ANGLE
1-1/2" = 1'-0"

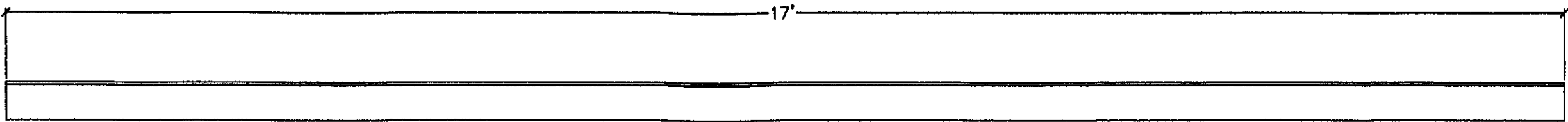
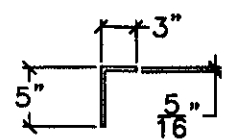


2DMO2-ANGLE
1-1/2" = 1'-0"

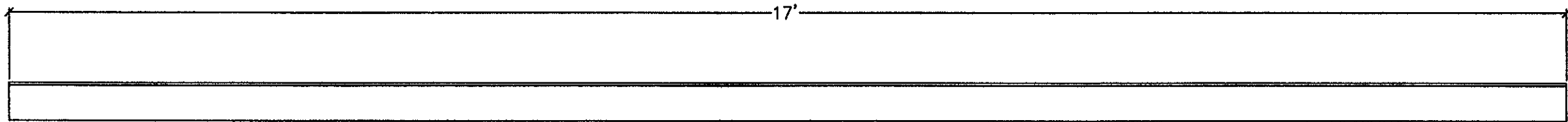
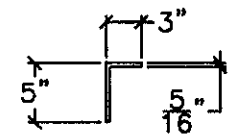
RECEIVED
CK'D BY CHA OK'D BY _____
MAY 11 2009
BY WY DATE 5/11/09
APPROVED As Noted

Renaud Bros. Construction Pellissippi, New York, 11958 (607) 257-7300	
TITLE: Wallingford Bridge Rehab	
LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 2 Drawings
DRAWN BY: JED	JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD	DATE: 4.30.09
DRAWING NO. T-2	
SHEET NO. 10 OF 18	

UPRIGHT MEMBERS:



2DMO3-ANGLE
1-1/2" = 1'-0"

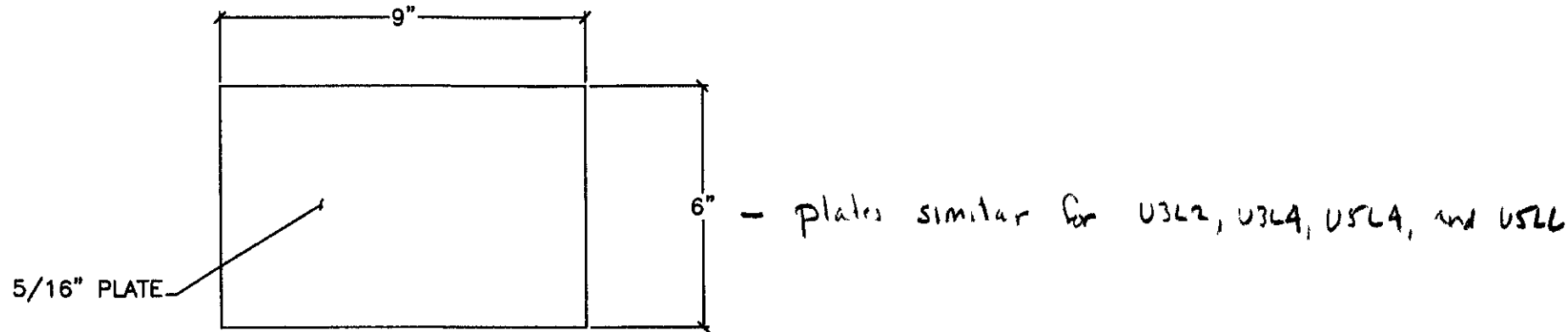


2DMO4-ANGLE
1-1/2" = 1'-0"

RECEIVED
CHK'D BY CHA OK'D BY _____
MAY 11 2009
BY WJ DATE 5/19/09
APPROVED A. [Signature]

FILE		Wallingford Bridge Rehab		Renaud Bros. Construction	
LOCATION		Wallingford, VT		Renaud Bros. Construction	
DRAWING TITLE		Drawings Truss Type 2: Drawings		Renaud Bros. Construction	
DRAWN BY		JED		Renaud Bros. Construction	
JOB CONTACT		Erick Foster State of VT		Renaud Bros. Construction	
CHECKED BY		JED/AD		Renaud Bros. Construction	
DATE		4 30 09		Renaud Bros. Construction	
DRAWING NO.		T-2		Renaud Bros. Construction	
SHEET NO.		11 of 18		Renaud Bros. Construction	

UPRIGHT MEMBERS:

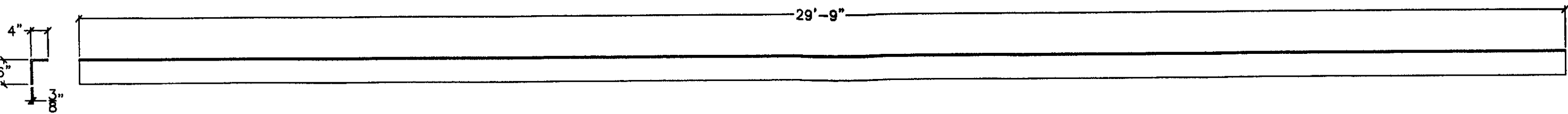


2DM05-PLATE
6" = 1'-0"

RECEIVED
CK'D BY CHA CK'D BY _____
MAY 11 2009
R. GENTILE APPROVED As NW
BY SA DATE 5/4/09
WY

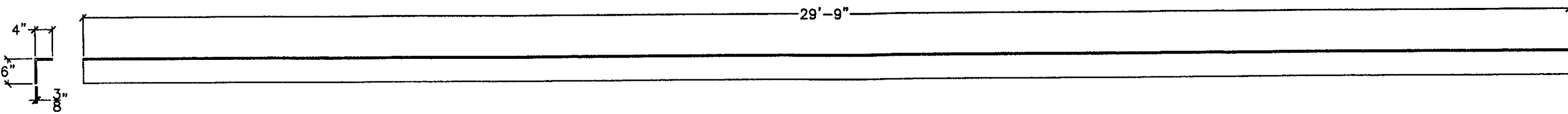
FILE		Wallington Bridge Rehab		Reinforced Construction	
LOCATION		Wallington, VT		Reinforced Construction	
DRAWING TITLE		Drawings Truss Type 2. Drawings		(802) 257-7383	
DRAWN BY		JED	JOB CONTACT	Erick Foster State of VT	
CHECKED BY		JED/AD	DATE	4 30 09	
DRAWING NO.		T-2			
SHEET NO.		12 of 18			

BOTTOM CHORD:



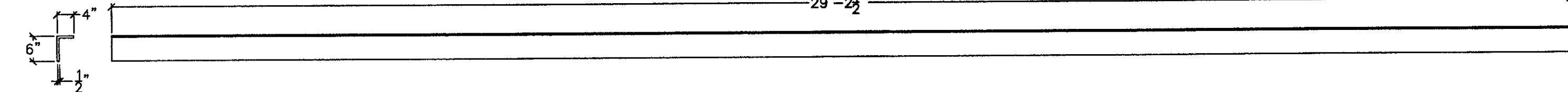
2L0L2A-ANGLE

1" = 1'-0"



2L0L2B-ANGLE

1" = 1'-0"



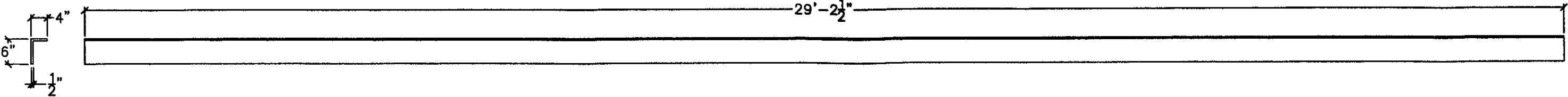
2L2L4A-ANGLE

1" = 1'-0"

RECEIVED
 CK'D BY: CJA CK'D BY: _____
 MAY 11 2011
 R. J. G. H. T. APPROVED: BS
 BY: WY DATE: 5/29/11

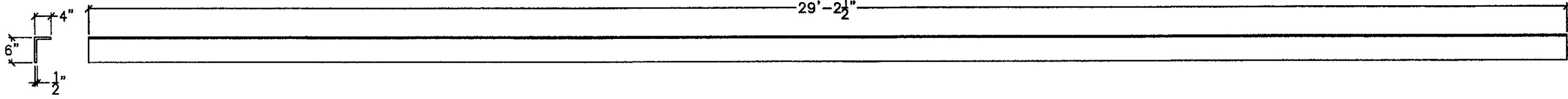
Title Wallingford Bridge Rehab Wallingford, VT		Prepared By Construction (802) 257-7383
Drawing Title Drawings Truss Type 2 Drawings	Drawn By JED	Job Contact Erick Foster State of VT
Checked By JED/AD	Date 4-30-09	
Drawing No. T-2		Sheet No. 13 of 18

BOTTOM CHORD:



2L4L6A-ANGLE

1" = 1'-0"



2L4L6B-ANGLE

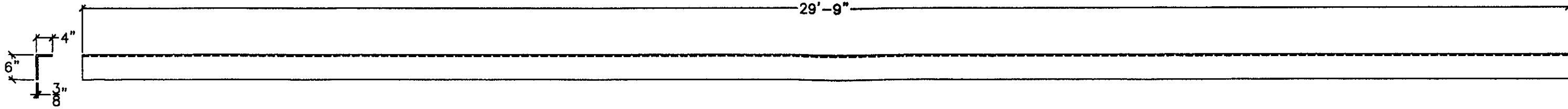
1" = 1'-0"

RECEIVED
CK'D BY CWA OK'D BY _____

MAY 11 2014
APPROVED As Noted
BY WY DATE 5/19/14

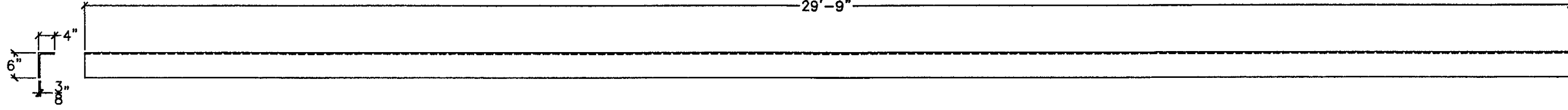
Pineau Bros. Construction Pineau Bros. Construction (802) 257-7393	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING NO.	DRAWINGS TRUSS Type 2: Drawings
DRAWN BY: JED	JOB CONTACT: Erik Foster State of VT
CHECKED BY: JED/AD	DATE: 4 30 09
SHEET NO. T-2	
14 OF 18	

BOTTOM CHORD:



2L6L8A-ANGLE

1-1/2" = 1'-0"



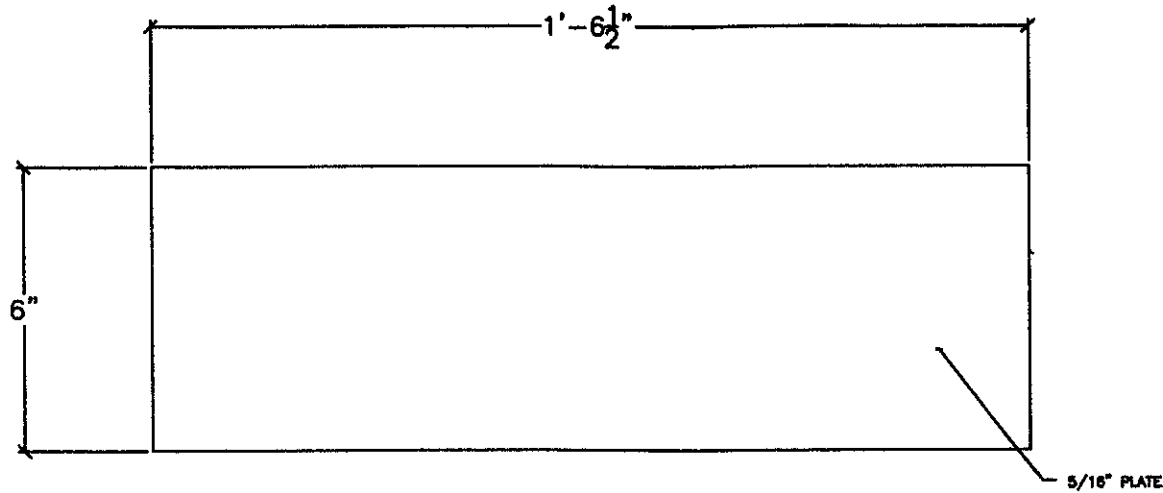
2L6L8B-ANGLE

1" = 1'-0"

RECEIVED
OK'D BY CHA OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED As WY
BY WY SD DATE 5/14/09

FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 09
JOB CONTACT	Enck Foster State of VT
PROJECT NO.	T-2
SHEET NO.	15 of 18

BOTTOM CHORD:



2BC01-PLATE

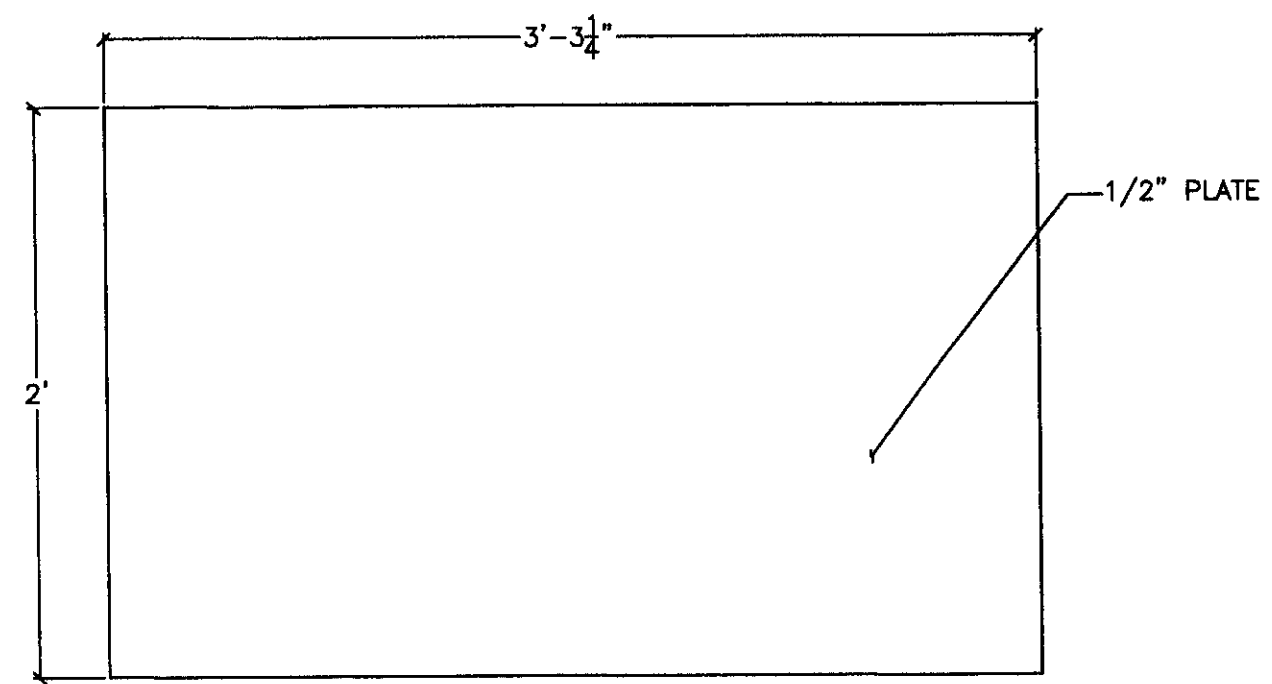
3" = 1'-0"

RECEIVED
CK'D BY CWH OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED AS NCH
BY WY 3/1 DATE 5/11/09

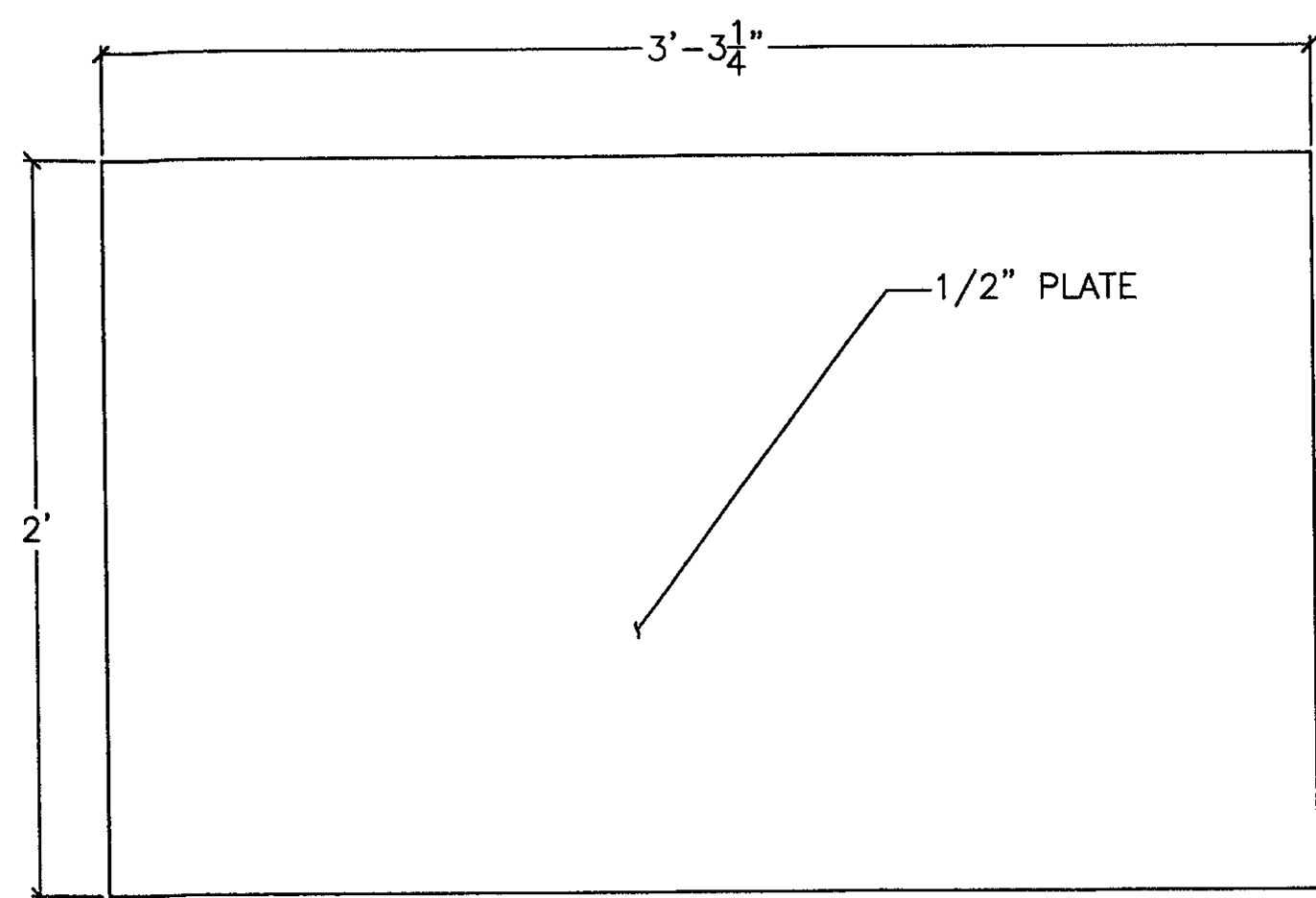
TITLE		Wallingford Bridge Rehab	
LOCATION		Wallingford, VT	
DRAWING TITLE		Drawings Truss Type 2: Drawings	
DRAWN BY	JED	JOB CONTACT	Erick Foster State of VT
CHECKED BY	JED/AD	DATE	4 30 08
DRAWING NO.		T-2	
SHEET NO.		16 of 18	

Renard Bros. Construction
Renard Bros. Construction
(802) 257-7353

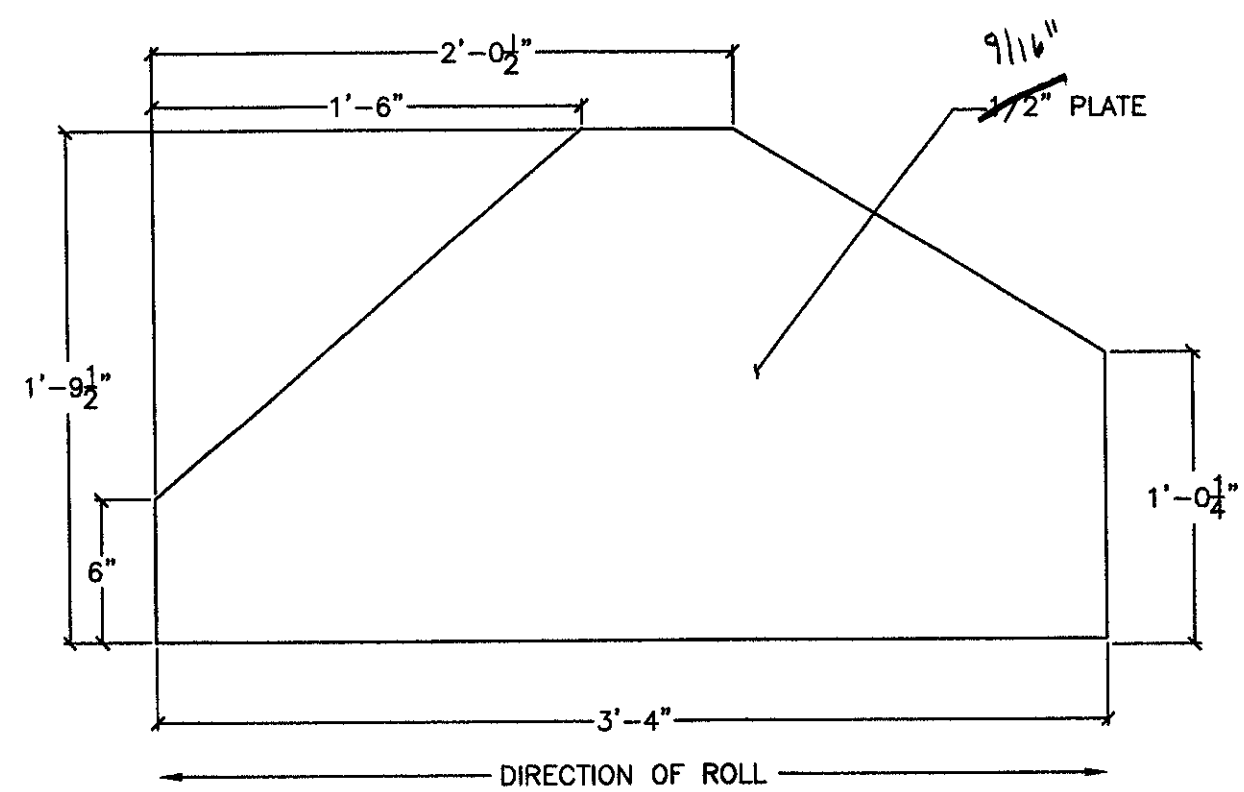
GUSSET PLATES.:



2GP01-PLATE

$$3'' = 1' - 0''$$


2GP02-PLATE

$$3'' = 1' - 0''$$


2GP03-PLATE

$$3'' = 1' - 0''$$

RECEIVED

CK'D BY CJA OK'D BY _____

MAY 11 2009

RESUBMIT _____ APPROVED AD MW

BY an DATE 5/29/4

Renaud Bros. Construction
Fort Bridgman Road Vernon, VT 05354
(802) 257-7383

TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT

DRAWING TITLE
Drawings Truss Type 2 Drawings

DRAWING TITLE	Drawings	Truss	Type 2	Drawings

DRAWN BY	JED	JOB CONTACT	Erick Foster State of VT
CHECKED BY	JED/AD	DATE	4 30 09

DRAWN BY	JED	JOB CONTACT	Erick
CHECKED BY	JED/AD	DATE	4 30 09

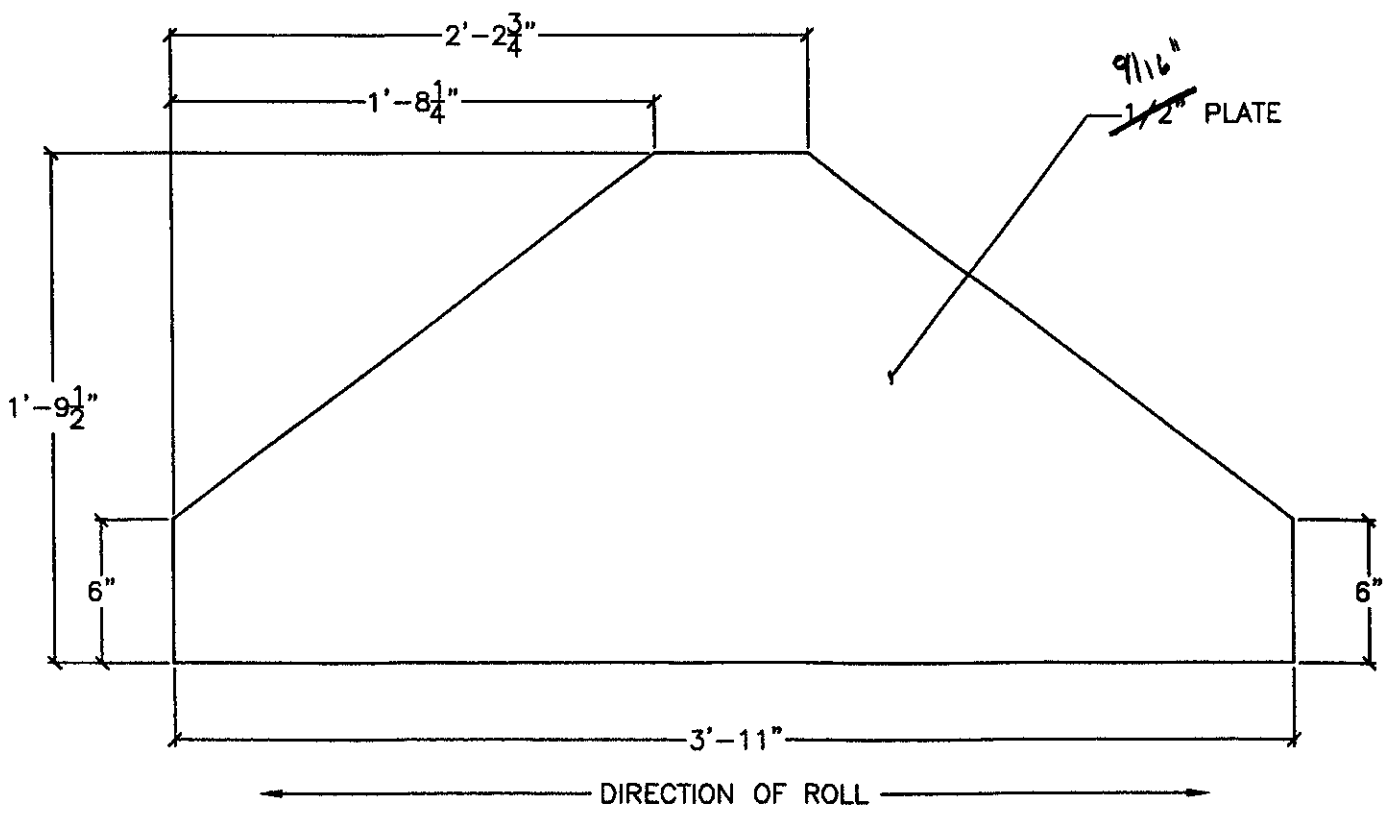
DRAWN BY	JED	JOB CONTACT	Erick Foster State of VT
CHECKED BY	JED/AD	DATE	4 30 09

DRAWING NO.

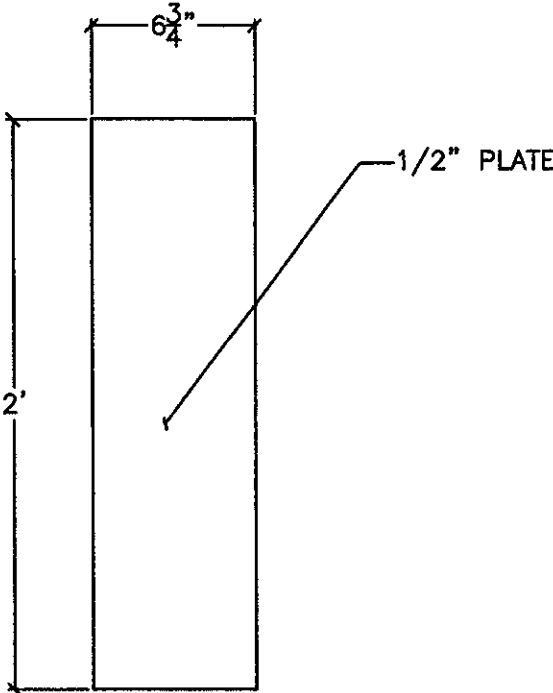
T-2

17 of 18

GUSSET PLATES.:



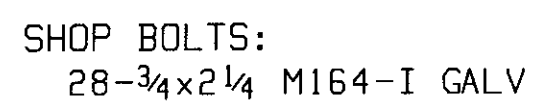
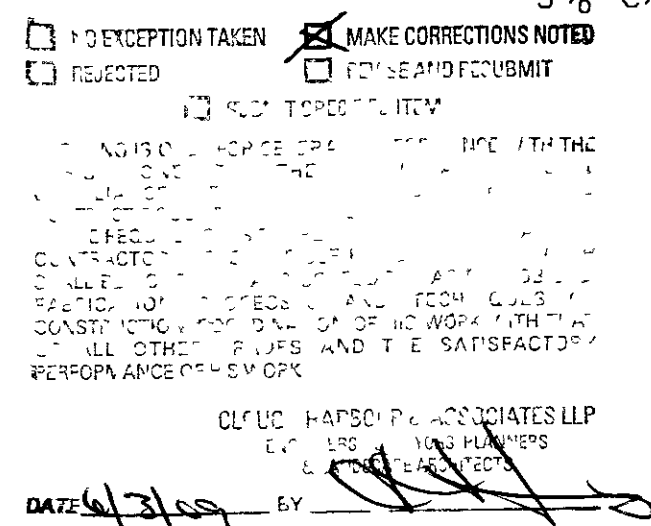
2GP04-PLATE
3" = 1'-0"



2GP05-PLATE
3" = 1'-0"

RECEIVED
CHK'D BY CJM OK'D BY _____
MAY 11 2009
RF SUBMIT _____ APPROVED As Noted
BY WY 9/1 DATE 5/14/09

Renaud Bros. Construction Pittsford, Vermont 05751 (802) 257-1285	
TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	JED
CHECKED BY	JED/AO
JOB CONTRACT	Erick Foster State of VT
DATE	4.30.09
DRAWING NO.	
SHEET NO.	T-2
18 of 18	

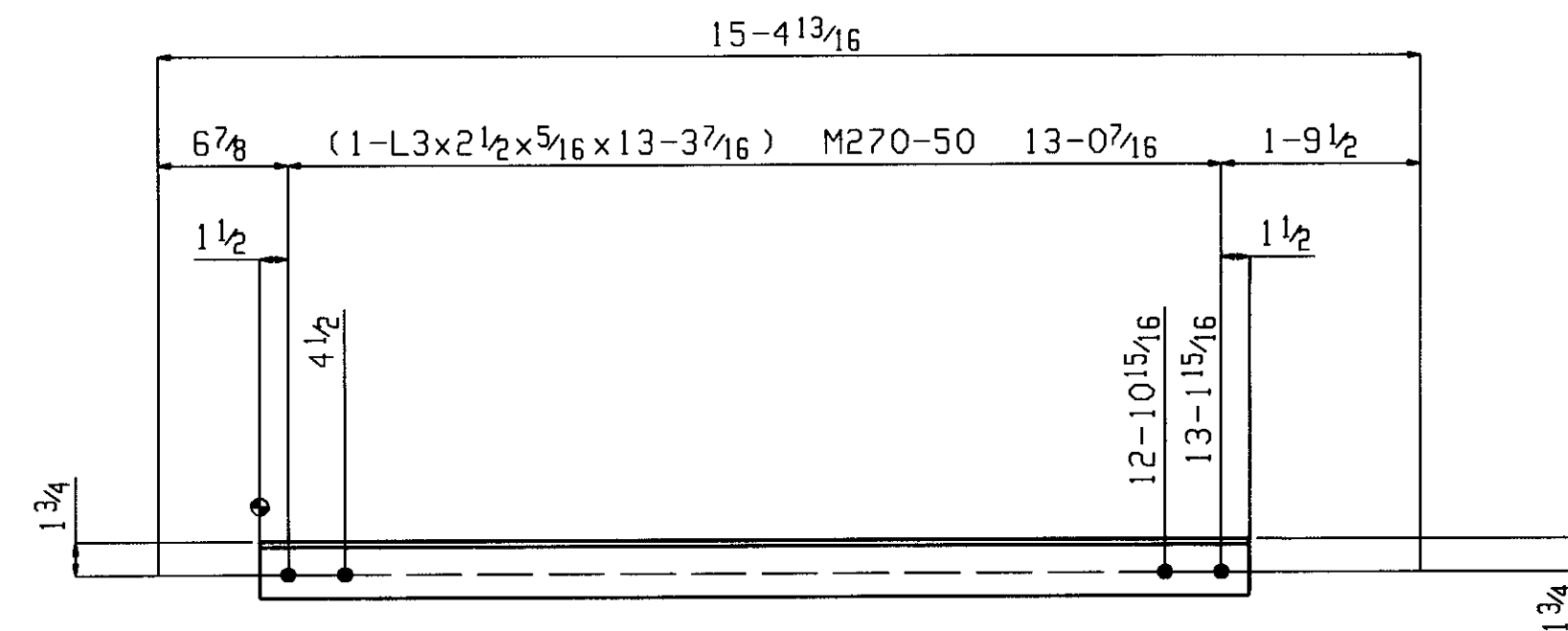


BY DATE

Total weight 3104

Renaud Bros. Inc. 283 Fort Bridgeman Rd. #2 Vernon, VT. 05354 Phone 1-802 257-7383			Holes:	13/16 UNF
			BOLTS:	3/4" DIA M164-I GALV
			Steel GR:	M270-50 UNF
			Paint:	PER SPECS
	Rev. No:	Date:	Surface Prep:	PER SPECS
Project: WALLINGFORD BRIDGE WALLINGFORD, VT		Date: 4-28-09		Job No.
		DMN. BY EG	Checked	Sheet No. B3, 4

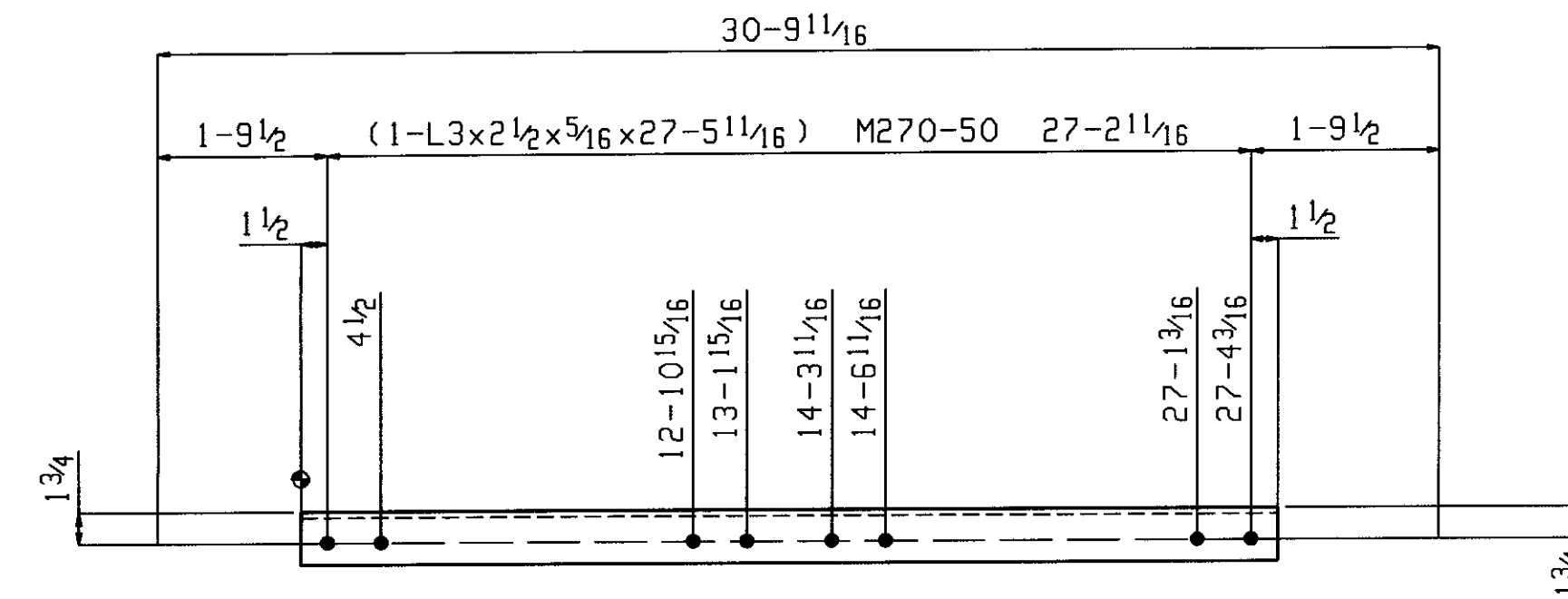
May 15 2009 03:03 46 PM



8 HORIZONTAL BRACES HB1

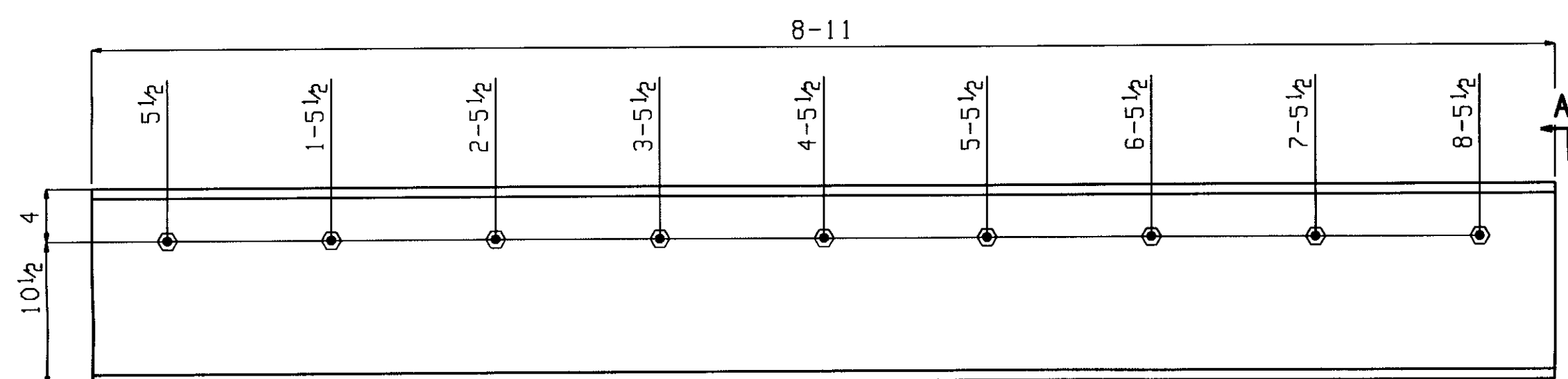
SHOP NOTE
TOE DIRECTION NEAR SIDE
LONG LEG SHOWN

DATE 6/3/09 BY [Signature]
CLOUGH HARBOUR & ASSOCIATES LLP
ENGINEERS ARCHITECTS & LANDSCAPE ARCHITECTS

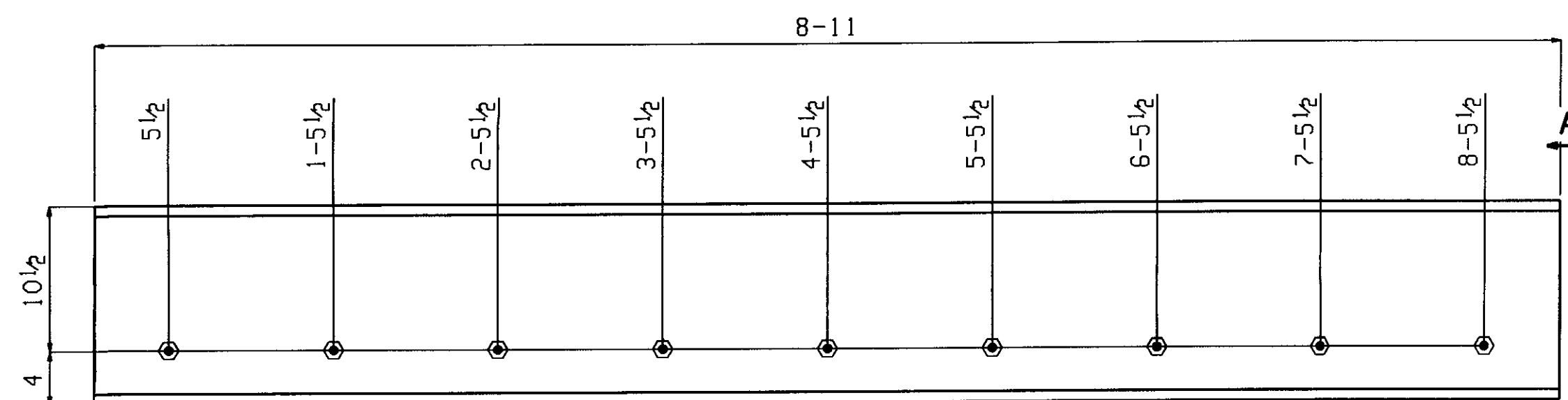
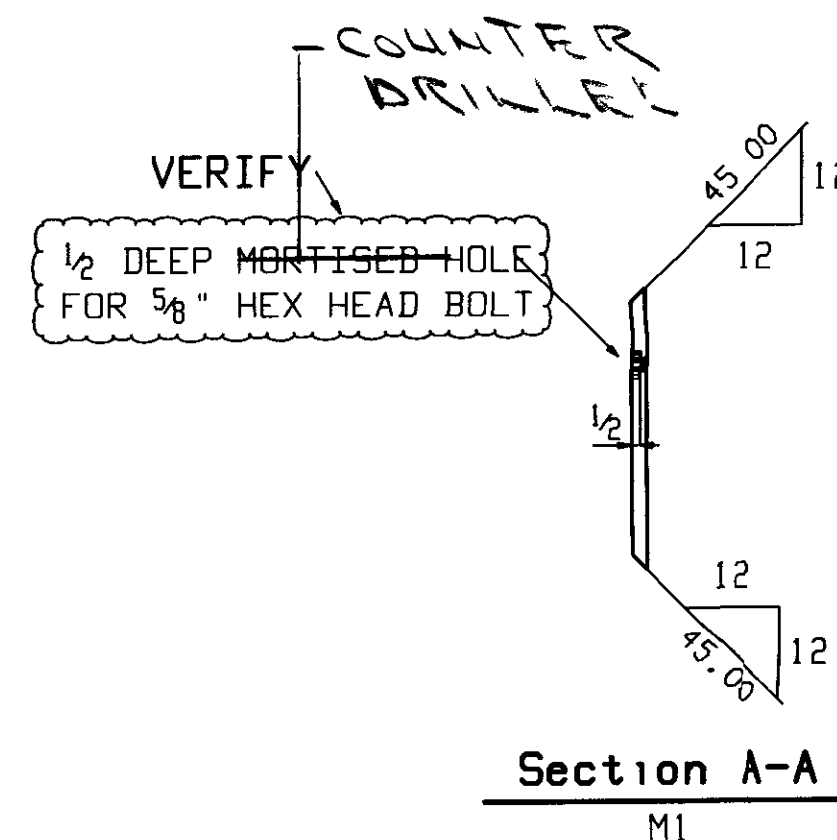


4 HORIZONTAL BRACES HB2

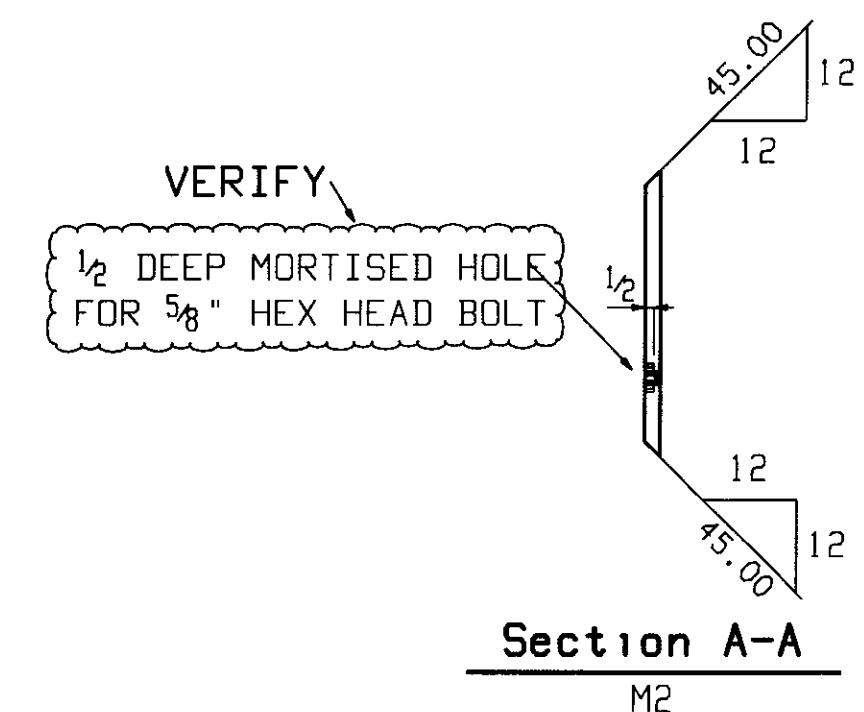
SHOP NOTE:
TOE DIRECTION FAR SIDE
LONG LEG SHOWN



ONE MISC M1
GALV



ONE MISC M2
GALV



May 15 2009 03:03:51 PM

BILL OF MATERIAL									BILL OF MATERIAL									BILL OF MATERIAL								
Qty	Piece			Seq	Seq	Adv	Steel		Qty	Piece			Seq	Seq	Adv	Steel		Qty	Piece			Seq	Seq	Adv	Steel	
Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade	Remarks
8		HORIZONTAL BRACE		1	8				ONE		MISC		1	1			GALV									
8	HB1	L3x2 1/2 x 5/16	13	3 7/16			M270-50		1	M1	PL 3/4 x 14 1/2	8	11			M270-50										
4		HORIZONTAL BRACE		1	4				ONE		MISC		1	1			GALV									
4	HB2	L3x2 1/2 x 5/16	27	5 11/16			M270-50		1	M2	PL 3/4 x 14 1/2	8	11			M270-50										

Total weight 1832

Renaud Bros. Inc. 283 Fort Bridgeman Rd. #2 Vernon, VT. 05354 Phone 1-802 257-7383		Holes:		13/16 UNF	
		BOLTS:		3/4" DIA M16-I GALV	
		Steel GR:		M270-50 UNF	
		Paint:		PER SPECS	
Rev. No:		Date:	Surface Prep:		PER SPECS
Project:		Date:		Job No.	
WALLINGFORD BRIDGE		4-28-09			
WALLINGFORD, VT		DWN. BY EG		Checked: Sheet No. HB1-2, M1-2	

May 15 2009 03:03:54 PM

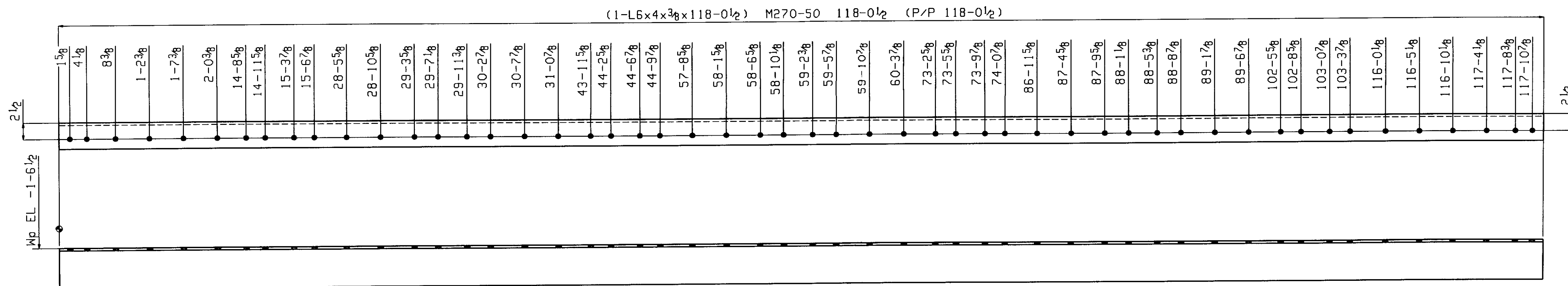
May 13 2009 03:03:54 PM

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece				Seq	Seq	Adv	Steel		Qty	Piece				Seq	Seq	Adv	Steel		Qty	Piece				Seq	Seq	Adv	Steel	
Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade	Remarks	Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade	Remarks
ONE		MISC			1		1																						
1	M3	L6x4x3/8	118	0 1/2				M270-50																					
ONE		MISC			1		1																						
1	M4	L6x4x3/8	118	0 1/2				M270-50																					

Total weight 2898

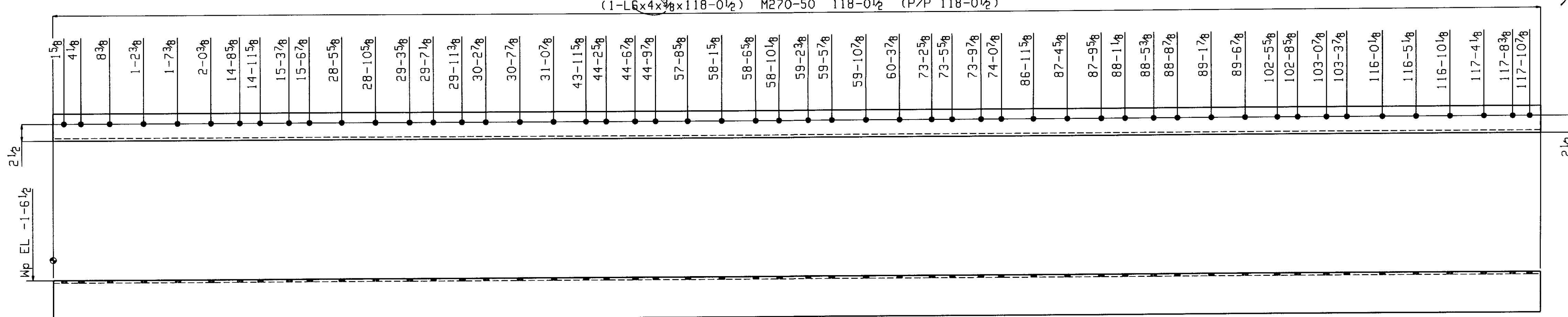
RECEIVED
CND BY _____ OKD BY _____
MAY 26 2009
RF SUBMIT _____ APPROVED _____
BY _____ DATE _____

Renaud Bros. Inc. 283 Fort Bridgeman Rd. #2 Vernon, VT. 05354 Phone 1-802 257-7383		Holes:	1 3/8 UNF
		BOLTS:	3/4" DIA M164-I GALV
		Steel GR:	M270-50 UNF
		Paint:	PER SPECS
Rev.No:	Date:	Surface Prep:	PER SPECS
Project:		Date:	4-28-09
WALLINGFORD BRIDGE		Job No.	
WALLINGFORD, VT		DWN. BY:	EG
		Checked	
		Sheet No.	M3, 4



ONE MISC M4

SHOP NOTE:
TOE DIRECTION NEAR SIDE



ONE MISC M3

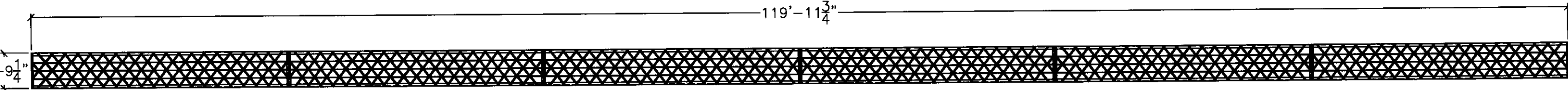
SHOP NOTE:
TOE DIRECTION FAR SIDE

☐ NO EXCEPTION TAKEN
☐ REJECTED
☒ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM
CLIPPING IS ONLY A FINAL COPY OF THE TIME
OF THE ORIGINAL SUBMITTAL. IT IS NOT TO BE
USED FOR ANY OTHER PURPOSE. THE ORIGINAL
SUBMITTAL IS THE ONLY COPY TO BE USED FOR
CONSTRUCTION. THE ORIGINAL SUBMITTAL IS THE
ONLY COPY TO BE USED FOR CONSTRUCTION.
CLOUGH HARBOUR & ASSOCIATES LLP
ENGINEERS - ARCHITECTS - INTERIORS
6000 ROUTE 100, SUITE 100
PORTLAND, ME 04106
DATE 6/1/09 BY [Signature]

GENERAL NOTES:

- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL RAIL HOLES TO BE PUNCHED FULL SIZE
- * ALL RAIL STEEL SHALL BE DOMESTIC AASHTO M270 GRADE 36
- * DIMENSIONS LESS THAN 25'-0" +/- 1/8"
- * DIMENSIONS GREATER THAN 25'-0" +/- 1/8"
- * SUPPORTING DOCUMENTATION TO DRAWINGS SEE BILL OF MATERIALS PEDESTRIAN RAIL
- * TACK WELDING TO BE PERFORMED PRIOR TO BLASTING AND PAINTING OPERATIONS
- * ALL RAIL ELEMENTS TO BE BLAST CLEANED AND PRIMED PRIOR TO ASSEMBLY
- * AFTER ASSEMBLY, FINAL COAT OF PAINT SHALL BE APPLIED, ANY BLEMISHES OCCURRING INSTALLATION SHALL BE FIXED
- * 3/8" ROD WILL BE TACKED TO OVERSIZED WASHER, TO ALLOW SECTIONS TO BE PRIMED, BEFORE ASSEMBLY SEE SHEET 2

RAILNG SYSTEM:



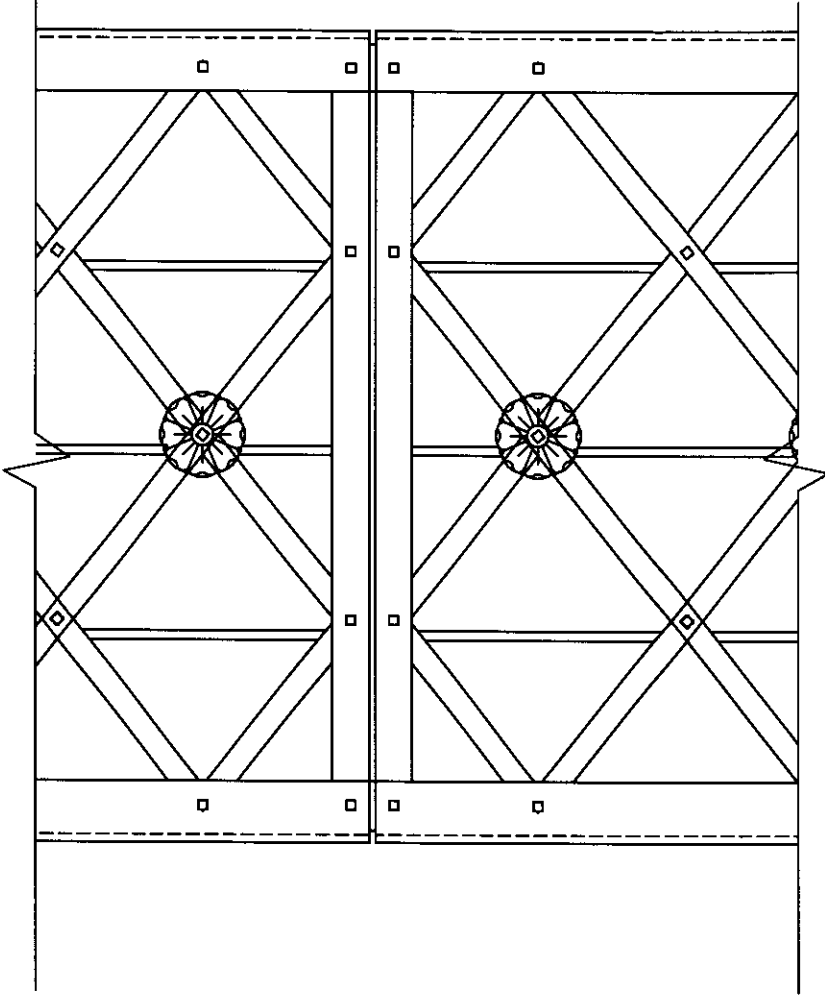
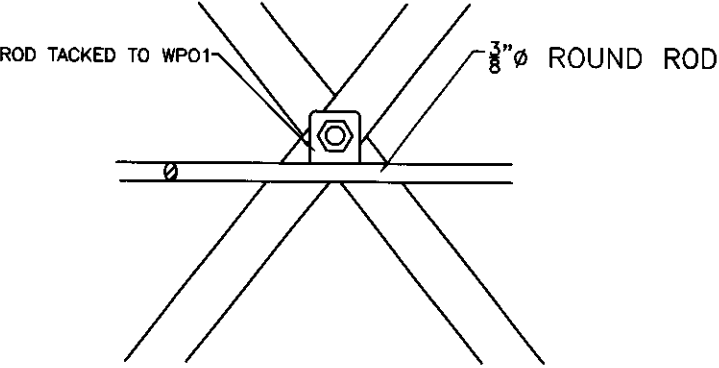
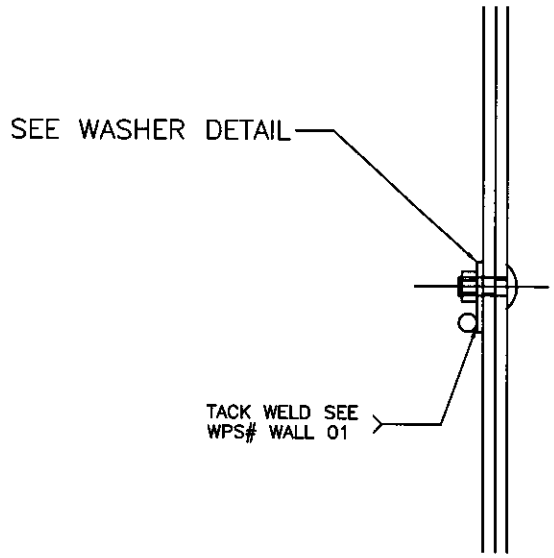
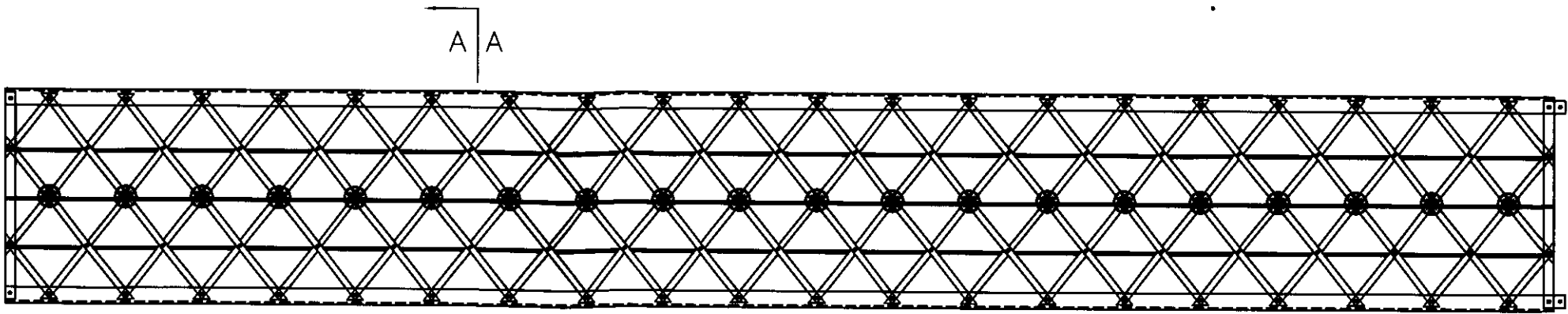
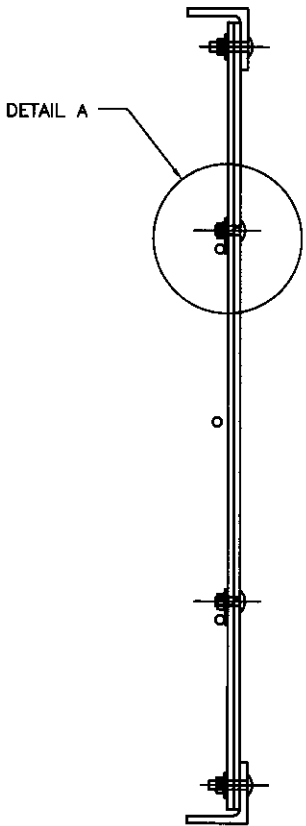
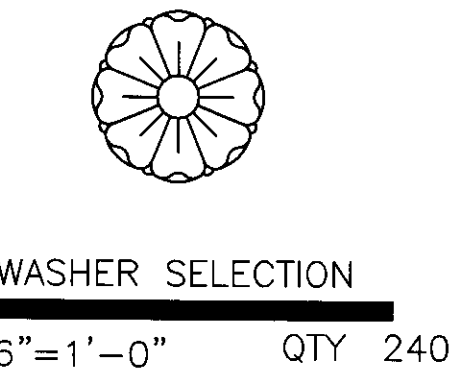
RAILING OVER-ALL

1/4" = 1'-0"

RECEIVED
OK'D BY _____ OK'D BY *As Noted*
JUL 31 2008
APPROVED _____
BY *WJH* DATE *8/6/08*

Renaud Bros Construction Renaud Bros Construction (802) 257-7243	
TITLE: Wallingford Bridge Rehab	
LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Railing System General Notes & Drawings
DRAWN BY: JED	DESIGN CONTACT: Erik Foster State of VT
CHECKED BY: JED/AD	DATE: 4-30-08
DRAWING NO: R-1	
SHEET NO: 1 OF 10	

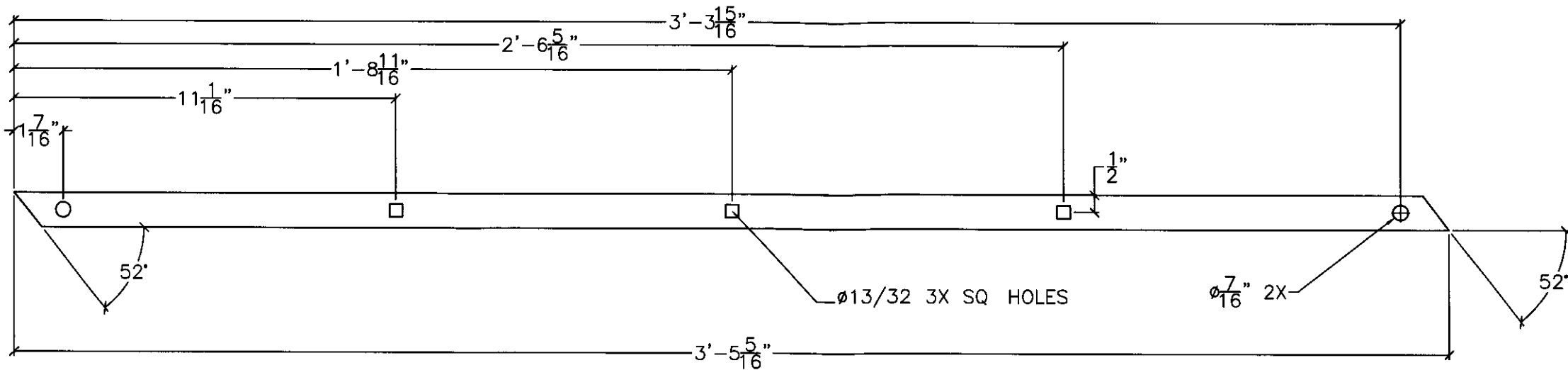
RAILNG SYSTEM:



RECEIVED
CK'D BY _____ OK'D BY _____
JUL 31 2009
BY *W.B. Sp* DATE *8/4/09*

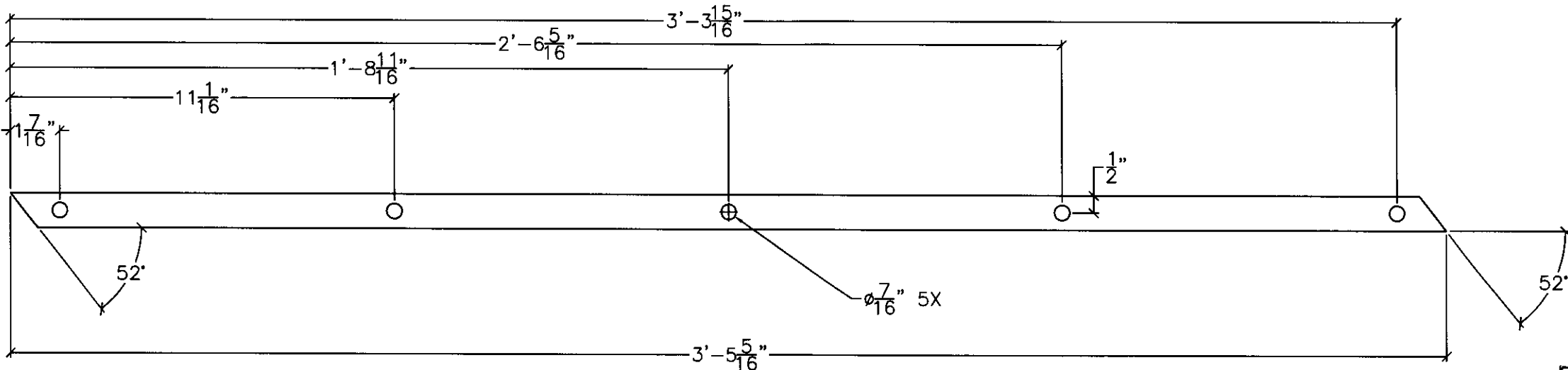
Renaud Bros Construction Renaud Bros Construction Renaud Bros Construction (802) 267-7383	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE	Drawings Railing System Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 09
R-1	
2 of 10	

RAILING SYSTEM:



HR01: PLATE-1/4"

6" = 1'-0" QTY. 216



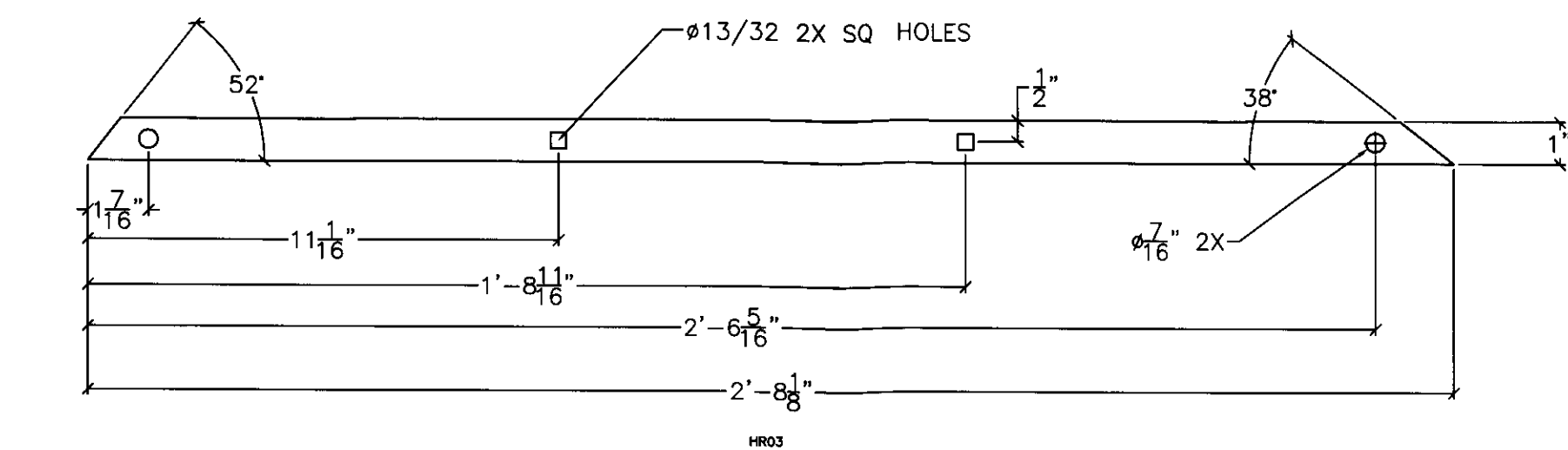
HR02: PLATE-1/4"

6" = 1'-0" QTY. 216

RECEIVED
CK'D BY _____ OK'D BY _____
JUL 31 2017
BY *W.A. 9/* APPROVED *✓*
DATE *8/1/17*

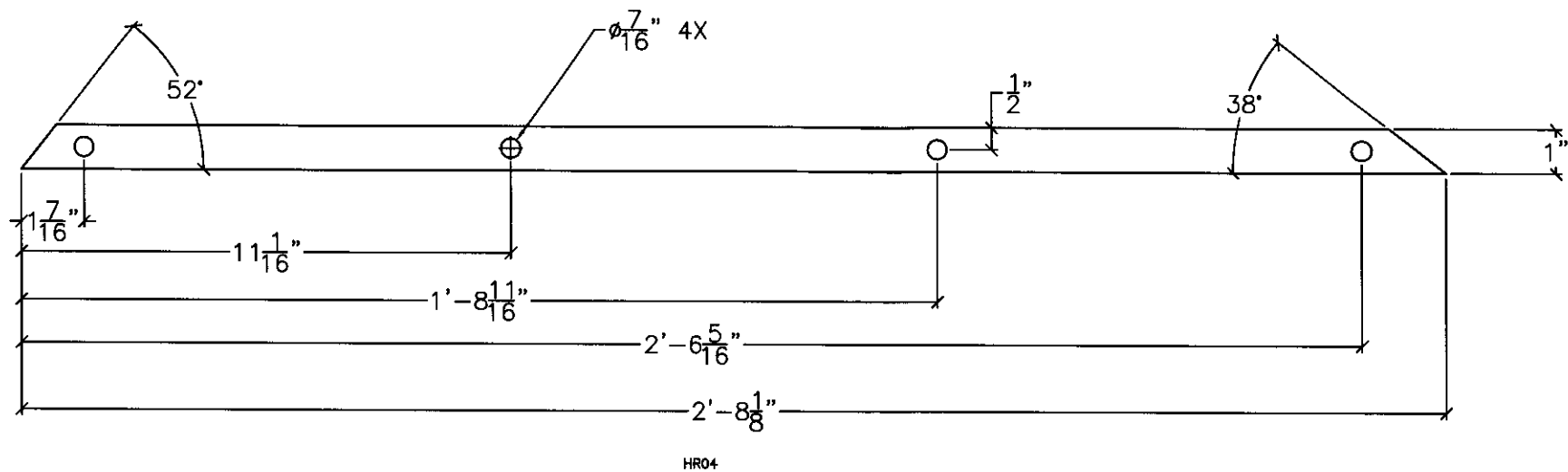
Renaud Bros Construction Renaud Bros Construction (802) 257-7343	
Wallingford Bridge Rehab	
Wallingford, VT	
DRAWING TITLE	
Drawings Railing System Drawings	
DRAWN BY JED	JOB CONTACT Erick Foster State of VT
CHECKED BY JED/AD	DATE 4 30 09
DRAWING NO.	
R-1	
SHEET NO.	
3 OF 10	

RAILNG SYSTEM:



HR03: PLATE-1/4"

6" = 1'-0" QTY. 24



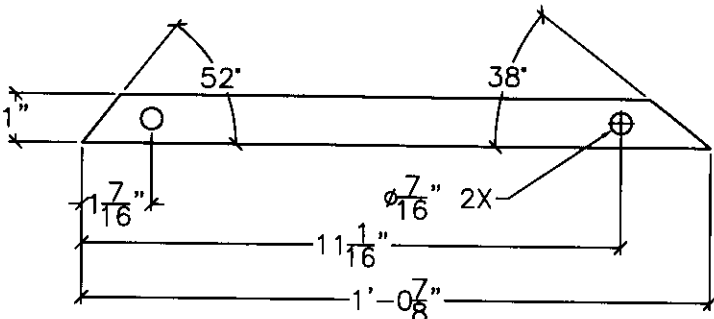
HR04: PLATE-1/4"

6" = 1'-0" QTY. 24

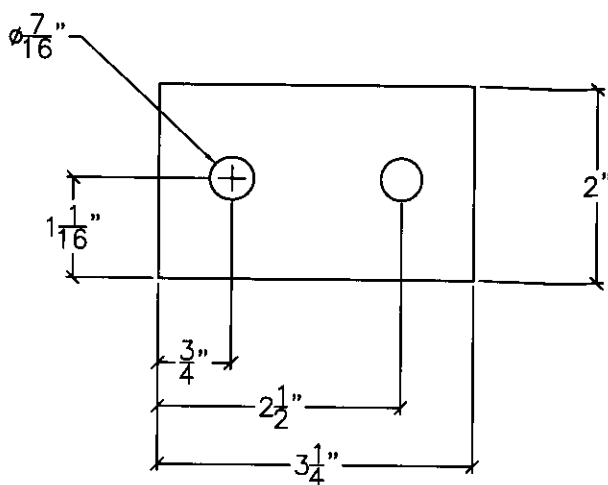
RECEIVED
OK'D BY _____ OK'D BY _____
JUL 3 12 11
BY *WY R. S.* DATE 8/6/11

Renaud Bros. Construction Renaud Bros. Construction 1000 (802) 251-7255	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE Drawings Railing System Drawings	
DRAWN BY: JED	JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD	DATE: 4/30/09
DRAWING NO. R-1	
SHEET NO. 4 OF 10	

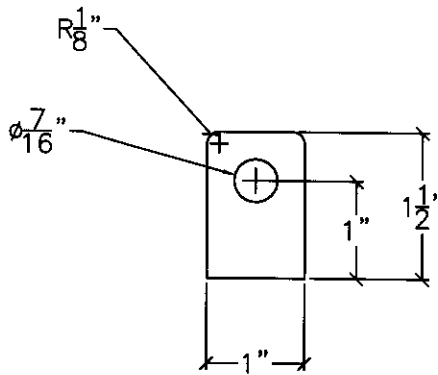
RAILNG SYSTEM:



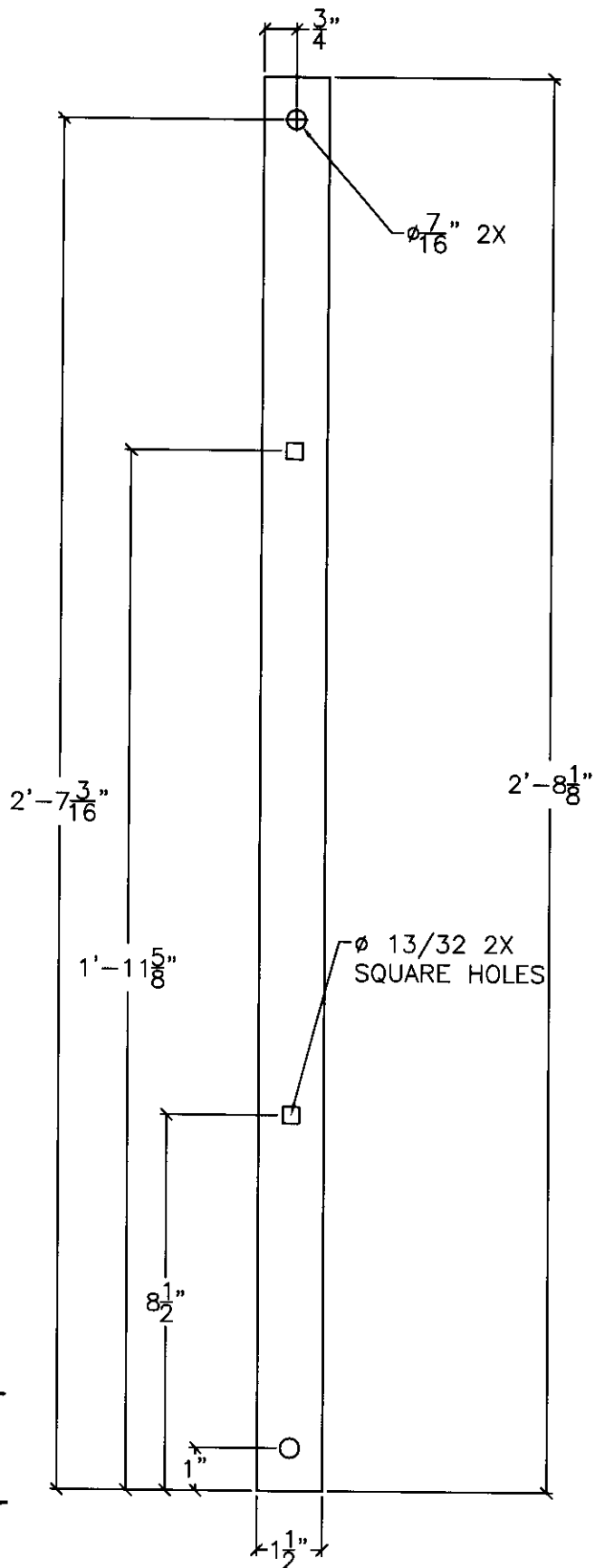
HR05: PLATE-1/4"
6" = 1'-0" QTY. 48



HR08: PLATE-1/4"
1'-0" = 1'-0" QTY. 12



W01: PLATE-1/4"
1'-0" = 1'-0" QTY. 775



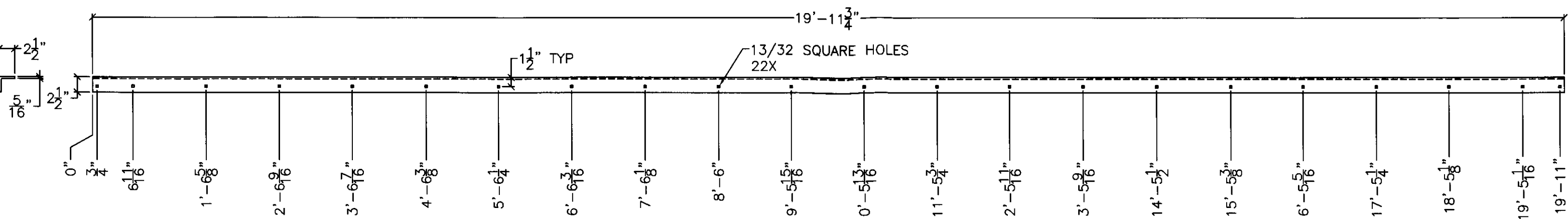
RECEIVED
OK'D BY _____
JUL 31 2008
BY _____ DATE 8/6/09

HR09: PLATE-1/4"
6" = 1'-0" QTY. 24

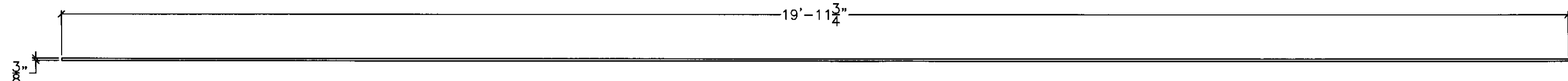
Title Wallingford Bridge Rehab		Drawing Title Drawings Railing System Drawings	
Location Wallingford, VT		Job Contact Erick Foster State of VT	
Drawing No. R-1		Checked By JED/AD	
Sheet No. 5 of 10		Date 4-30-09	

Revised/Revised Construction
For Wallingford Bridge, VT 0525
(802) 257-7383

RAILING SYSTEM:



HR06, HR07: -ANGLE
1-1/2" = 1'-0" QTY. 24

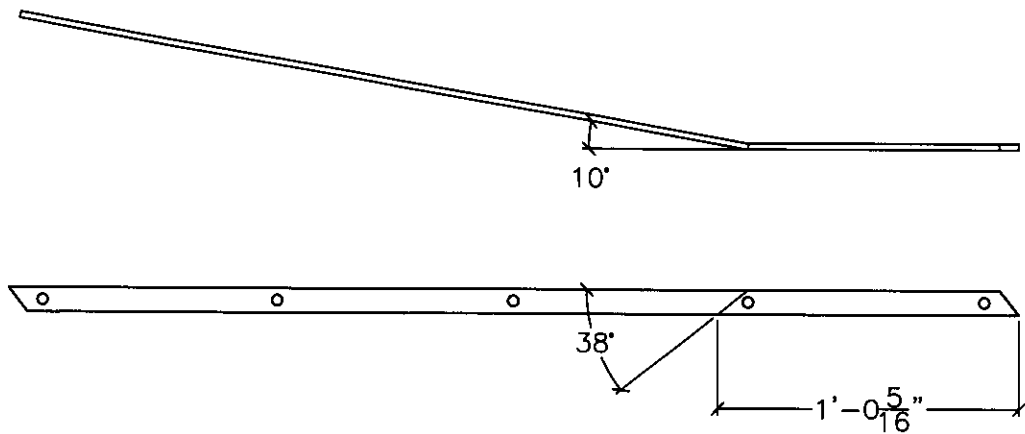


HR10: -3/8 ROUND STOCK
1-1/2" = 1'-0" QTY. 36

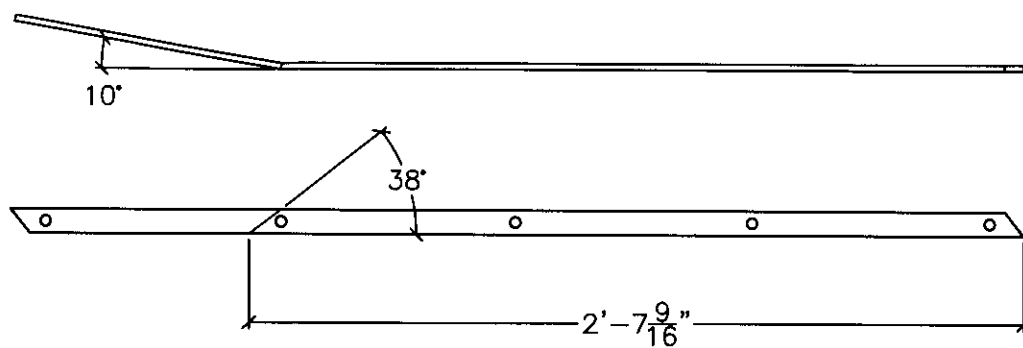
RECEIVED
JUL 31 2009
BY: WYB.SJ DATE: 8/6/09

Title Wallingford Bridge Rehab Location Wallingford, VT		Revised Date Construction For Paper Release V10094 (802) 257-7383	
Drawing Title Drawings Railing System Drawings		Job Contact Erick Foster State of VT	
Drawn By JED	Job Contact Erick Foster State of VT	Checked By JED/AD	Date 4 30 09
Drawing No. R-1		Sheet No. 6 of 10	

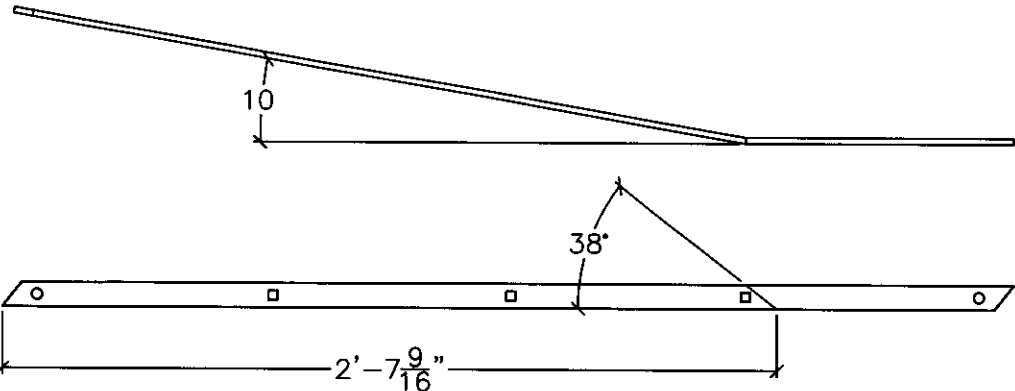
RAILNG SYSTEM: FLARED END LEFT



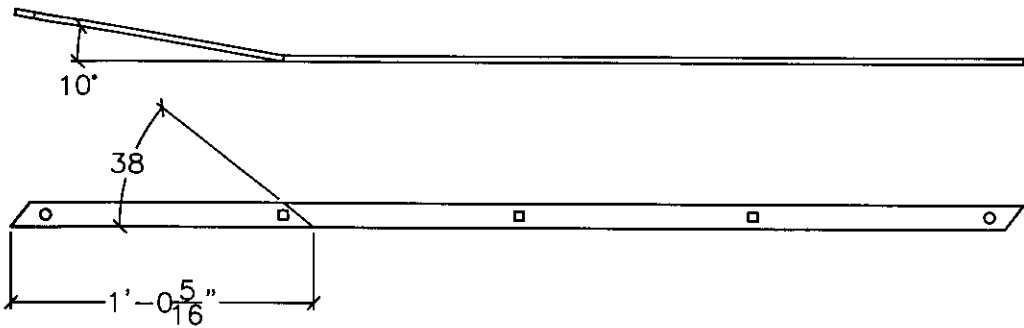
HRO21: LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO22; LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO11: -LATTICE(USE HRO1)
3" = 1'-0" QTY 2

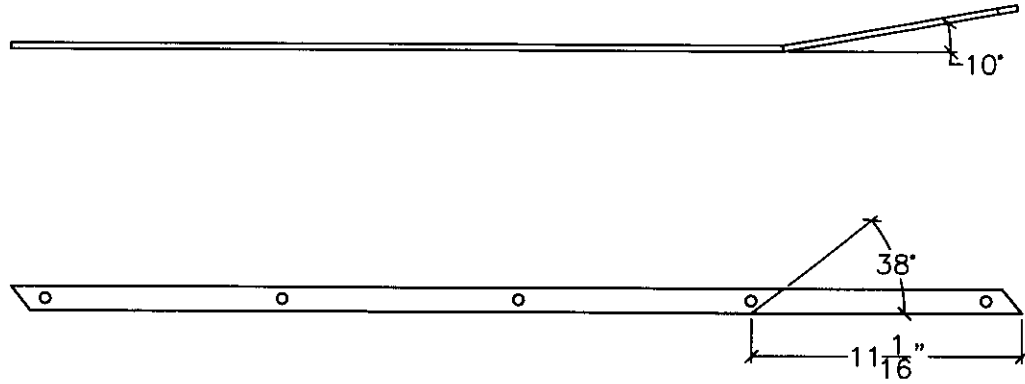


HRO12 -LATTICE (USE HRO1)
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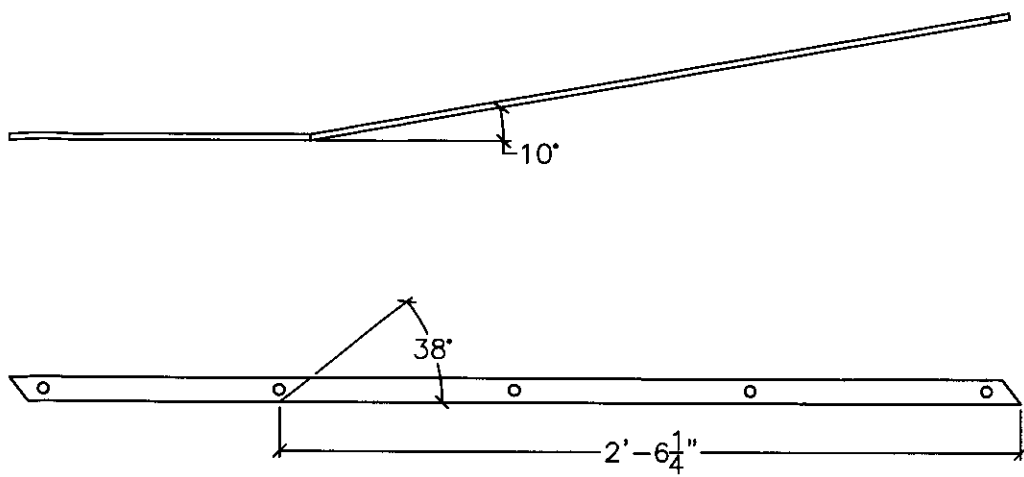
RECEIVED
JUL 31 2009
BY *WFS* DATE *8/1/09*

Renard Bros. Construction Renard Bros. Construction (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING NO. R-1	
DRAWING TITLE: Drawings Railing System Drawings	
DRAWN BY: JED	JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD	DATE: 4-30-09
SHEET NO. 7 OF 10	

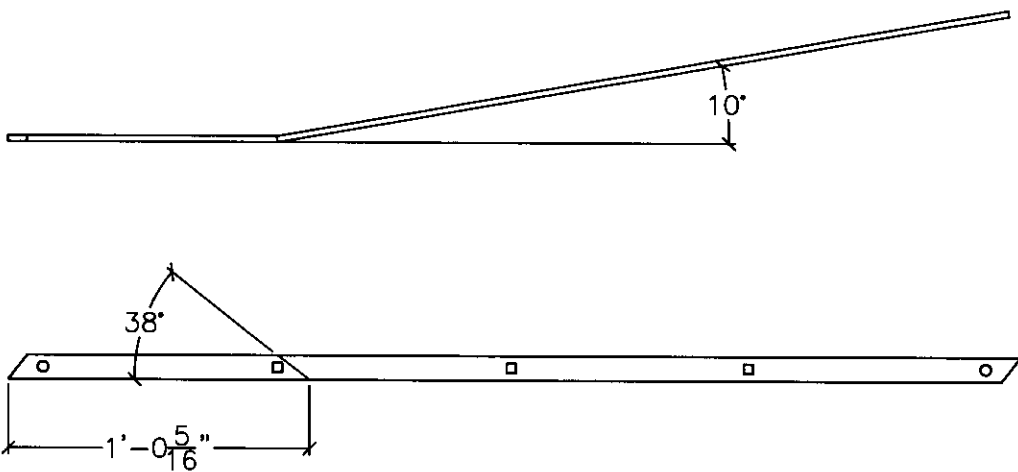
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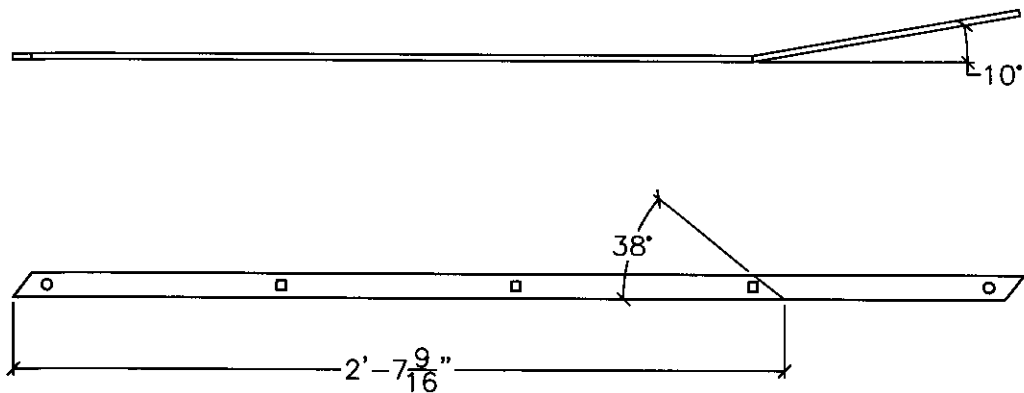
HRO23; LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO24; LATTICE (USE HRO2)
3" = 1'-0" QTY 2



HRO13; LATTICE (USE HRO1)
3" = 1'-0" QTY 2

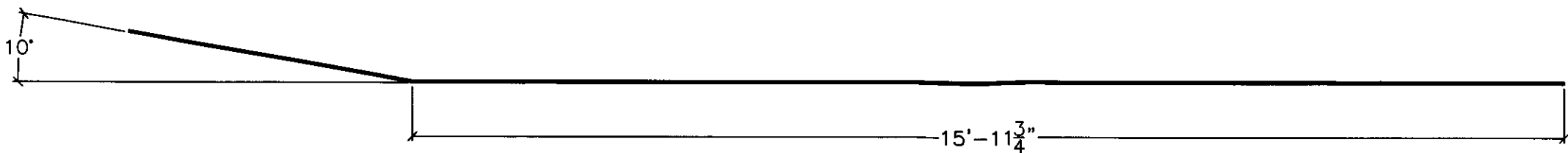


HRO14; LATTICE (USE HRO1)
3" = 1'-0" QTY 2

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OK'D BY _____ OK'D BY _____
JUL 31 2009
BY *W/B* DATE 8/6/09

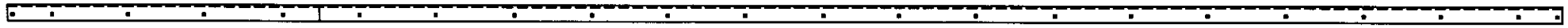
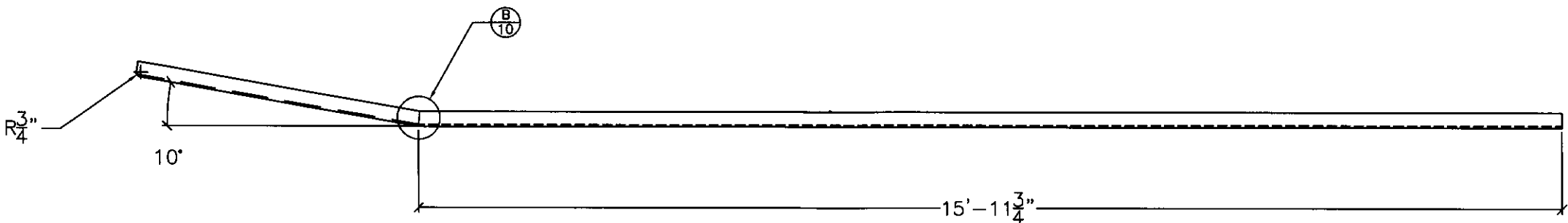
Renard Bros. Construction Renard Bros. Construction (802) 257-7353	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	
DRAWING TITLE: Drawings Railing System	DRAWN BY: JED
CHECKED BY: JED/AD	DATE: 4/30/09
JOB CONTACT: Eric Foster State of VT	
DRAWING NO: R-1	
SHEET NO: 8 OF 10	

RAILING SYSTEM:



HR101; 3/8 ROUND STOCK (USE HR10)

1" = 1'-0" QTY 12



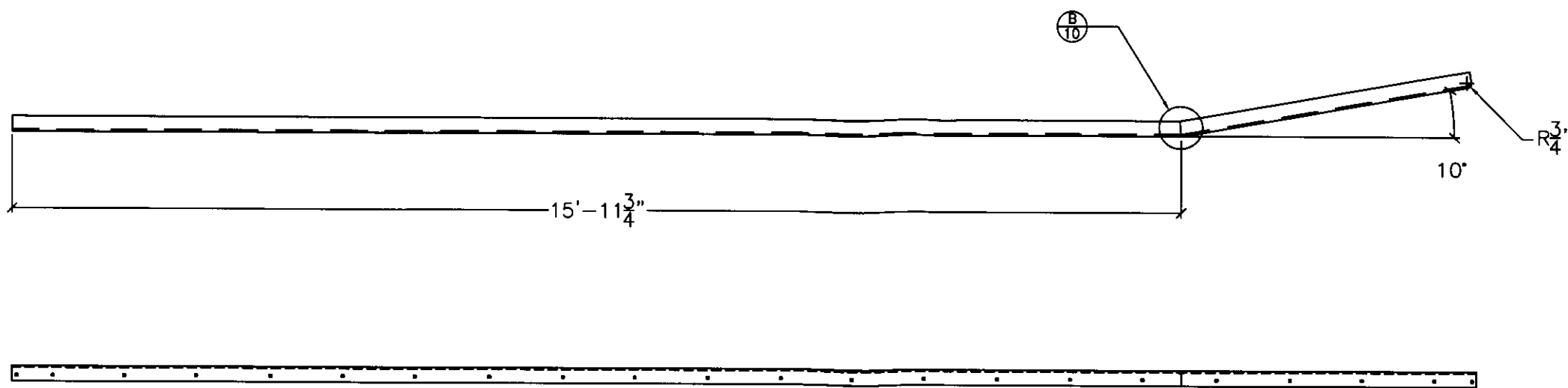
HR081,HR091; ANGLE (USE HR06)

1" = 1'-0" QTY 4

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OK'D BY _____ OK'D BY _____
JUL 31 2009
BY *W.P. St* DATE *8/4/09*

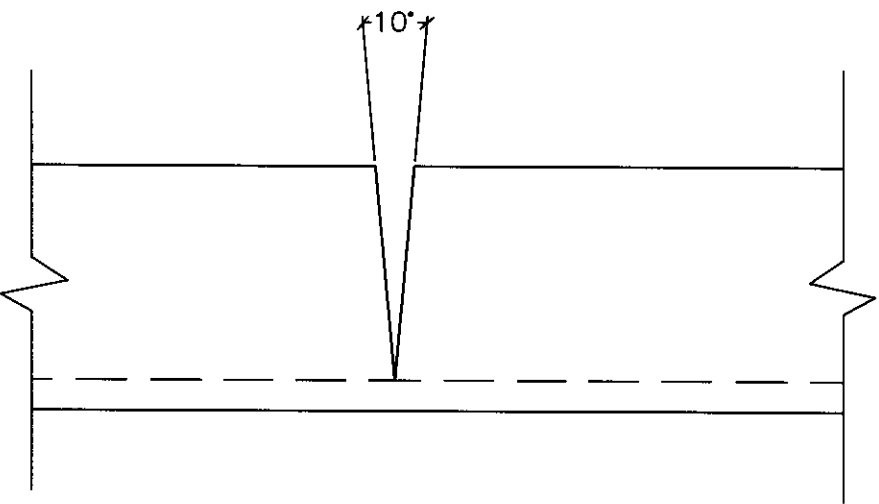
Renaud Bros Construction Renaud Bros Construction (802) 257-7383	
Wallingford Bridge Rehab Wallingford, VT	
DRAWING TITLE	DRAWINGS RAILING SYSTEM DRAWINGS
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4-30-09
DRAWING NO.	R-1
SHEET NO.	9 OF 10

RAILING SYSTEM:

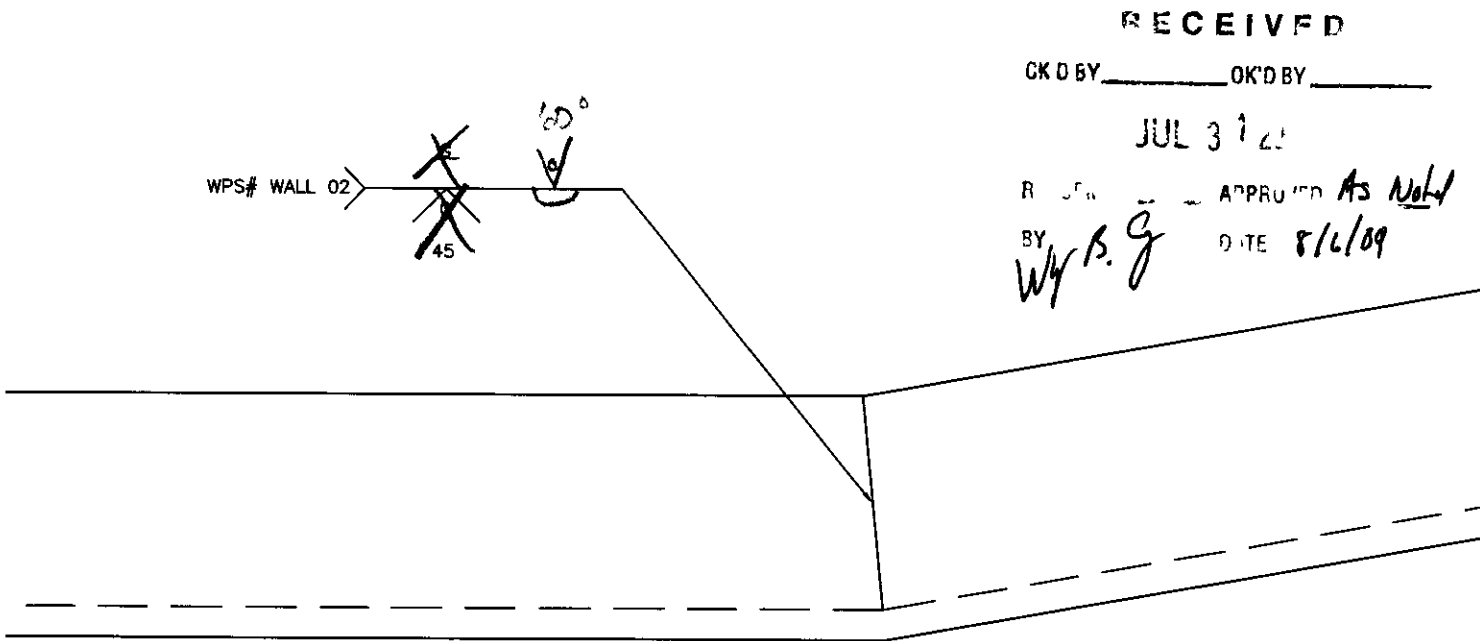


HR082, HR092: -ANGLE (USE HR07)
1" = 1'-0" QTY 4

NOTES
*RELIEF CUT TO BE MADE IN ANGLE, THEN BENT AND WELDED
*BENDS TO BE PERFORMED COLD, ON A PRESS BRAKE



RELIEF CUT DETAIL
1'-0"=1'-0"



B
10 WELD DETAIL AT FLARE
1"=1'

Renard Bros. Construction Renard Bros. Construction (802) 257-7383	
TITLE LOCATION Drawing Title Drawing Location	
DRAWN BY DATE JOB CONTACT DATE	
CHECKED BY DATE	
DRAWING NO. R-1	
SHEET NO. 10 OF 10	



VERMONT

State of Vermont

PDD/Structures Design Section

One National Life Drive
Montpelier, VT 05633-5001
www.aot.state.vt.us

Agency of Transportation

[phone] 802-828-2621
[fax] 802-828-3566
[ttd] 800-253-0191

June 9, 2009

Renaud Bros., Inc.
283 Fort Bridgeman Road #2
Vernon, VT 05354

Project Name: Wallingford STP WALK(14)

The following Structural Steel shop drawing details for the above project (General Contractor – Renaud Bros., Inc.) have been reviewed and are being returned herewith.

Sheets: a1-a7; p8-p17; B1,2 and B5 are “Approved”.

Sheets: B3,4; HB1-2,M1-2; M3,4; and E1 are “Approved as Noted”. Note the comments in red.

You must provide notice to our fabrication inspector, Jeff Clark, as to the date fabrication represented by these drawings will begin. That notice must be received and acknowledged at least seven days prior to that date, as per Specification 506.03. Jeff may be contacted by phone at (802)828-0044 or email at jeff.clark@state.vt.us. Any material fabricated prior to the notification date is subject to rejection without further cause.

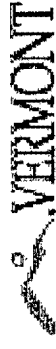
Sincerely,


Wayne Symonds
Project Manager

Attachments

cc: ☒ Resident Engineer – Eric Foster
☒ Shop Inspector – Jeff Clark
☒ Contractor – Renaud
☐ Sub-Contractor
☒ Design Consultant – CHA
☒ Construction Division – letter only
☒ Materials & Research Section (C&IA Unit) – letter only
☒ Files

— See Jeff; Also for Shop to copy



VERMONT

RENAUD BROS., INC.

283 Fort Bridgeman Road #2, Vernon, VT 05354

phone (802) 257-7383
fax (802) 257-7308

May 20, 2009

Wayne Symonds, Structural Engineer
Vermont Agency of Transportation
1 National Life Drive, Drawer 33
Montpelier, VT 05633-5001

RE: Wallingford STP ST WALK (14)
Shop Drawings

Dear Wayne:

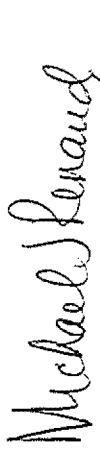
Enclosed for review please find seven (7) sets each of the following with regard to the above-referenced project:

- A. Floor System with Bill of Materials (22x36 plans)
- B. Part Details (8.5 x 11 sheets)

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

RENAUD BROS., INC.


(CAR)

Michael J. Renaud, V.P.

MJR:car

Enclosures



June 3, 2009

Wayne Symonds, P.E.
Vermont Agency of Transportation
National Life Building, Drawer 33
Montpelier, VT 05633

RE: Vermont General Design Retainer Contract No. 284599; Wallingford STP ST WALK(14); CHA File: 16311

Dear Mr. Symonds:

CHA has reviewed the set of structural steel shop drawings transmitted May 27, 2009 and recommends the following:

Sheet No. B1, 2: 'Approve'

Sheet No. B3, 4: 'Approve as Noted': Stringer spacing in B3 elevation should show constant spacing of 1'-5".

Sheet No. B5: 'Approve'

Sheet No. HB1-2, M1-2: 'Approve': In regards to request for detailer verification in Section A-A, the hole will be counter drilled, not counter sunk.

Sheet No. M3, 4: 'Approve as Noted': The inboard angle will be replaced full length, as shown in the plans, however, the angle is not continuous and the size varies throughout the length as follows:

- L0-L2, L6-L8: L6x4x3/8
- L2-L4, L4-L6: L6x4x9/16 (a change to L6x4x1/2 was approved by CHA on 4/22/09)

Sheet No. E1: 'Approve as Noted': In regards to request for detailer verification:

- Detail A: See inboard angle sizes in Sheet No. M3, M4 response.
- Detail C: See inboard angle sizes in Sheet No. M3, M4 response.
- Section 3, Plate detailing: Proposed edge distance change from 3 1/4" to 4" is acceptable.
- Section 3, Hex head bolt: See response on Sheet No. HB1-2, M1-2.

Cut Sheets a1-a4, a7, p8-p9, p13, p16-p17: 'Approve'

Sincerely,


David M. D'Amato, P.E.
Project Engineer

"Satisfying Our Clients with

2139 Silas Deane Highway, Suite 212, Rocky Hill, CT 06067-2336

Dedicated People Committed to Total Quality"

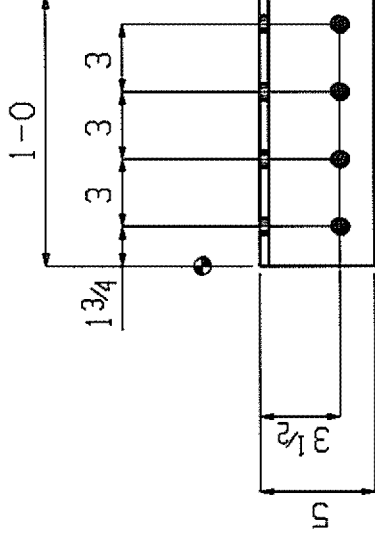
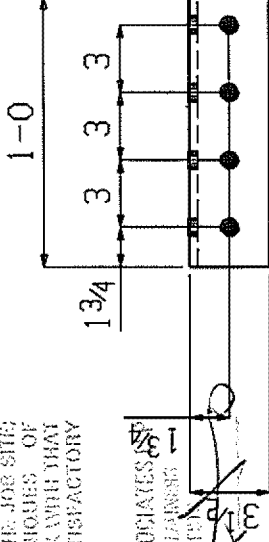
T 860.257.4557 • F 860.257.7514 • www.chacompanies.com

☒ NO EXCEPTION TAKEN
☐ MAKE CORRECTIONS NOTED
☐ REJECTED
☐ REVISED AND RESUBMIT
☐ SUBMIT CORRECTED ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE
 DESIGN CONCEPT OF THE PROJECT AND GENERAL
 CONFORMANCE WITH THE INFORMATION GIVEN IN THE
 CONTRACT DOCUMENTS. ANY AGENT SHOULD BE SUBJECT
 TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
 CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH
 WILL BE CONFIRMED AND CORRELATED AT THE JOB SITE.
 CONTRACTOR SHALL BE RESPONSIBLE FOR THE SATISFACTORY
 COORDINATION OF HIS WORK WITH THAT
 OF ALL OTHER TRADES AND THE SATISFACTORY
 PERFORMANCE OF HIS WORK.

CLERMONT & ASSOCIATES
 10001 W. 10TH AVENUE
 DENVER, CO 80231

6/3/09



18 L5x3 1/2 x 3/8 x 1-0 a1

GRADE: M270-50

RECEIVED

CK'D BY _____ OK'D BY _____

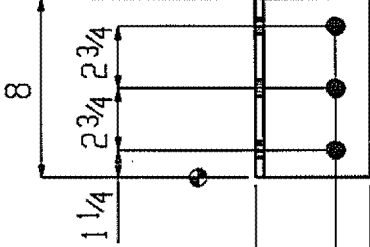
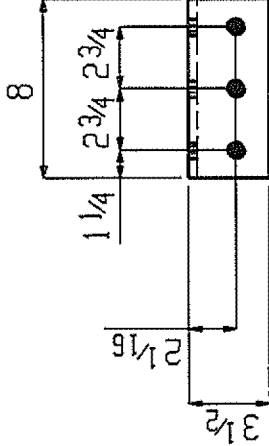
MAY 26 2009

RESUBMIT _____ APPROVED _____

BY _____ DATE _____

Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS:	STL GR:	DRWN BY:	EG
3/4" DIA.	M270-50 UNQ	EG	DATE: 5-11-09
M164-I GALV	HOLES: 13 1/16 UNQ	CHK:	JOB NO:
			SHT: a1



☒ NO EXCEPTION TAKEN
☐ REJECTED
☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

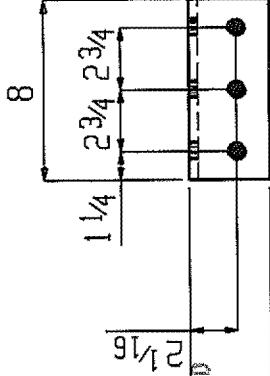
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CLOUGH HARBOR & ASSOCIATES INC.
ENGINEERS, SURVEYORS, PLANNERS
LANDSCAPE ARCHITECTS
6/2/07 BY *[Signature]*

96 L5x3 1/2 x 3/8 x 0-8 a2

GRADE: M270-50

Renaud Bros. Inc. 283 Fort Bridgeman Rd. #2 Vernon, VT. 05354 Phone 1-802 257-7383			
JOB: WALLINGFORD BRIDGE WALLINGFORD, VT		PART	
BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNQ	DRWN BY: EG	DATE: 5-11-09
HOLES: 13 1/8 UNQ		CHK:	JOB NO:
			SHT: a2

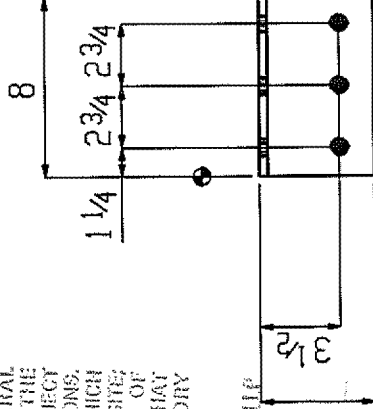


☒ NO EXCEPTION TAKEN
☐ REJECTED
☐ MAKE CORRECTIONS NOTED
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CLINCH HARRISON & ASSOCIATES LLP
REGISTERED PROFESSIONAL ENGINEERS
LANDSCAPE ARCHITECTS

6/2/09 [Signature]



96 L5x3 1/2 x 3/8 x 0-8 a3

GRADE: M270-50

Renaud Bros. Inc.
283 Fort Bridgeman Rd. #2
Vernon, VT. 05354
Phone 1-802 257-7383

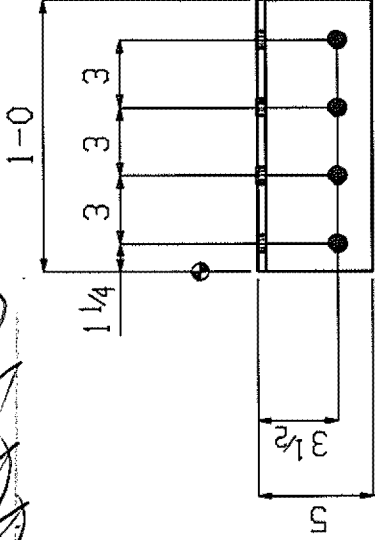
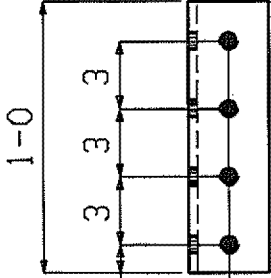
JOB: WALLINGFORD BRIDGE WALLINGFORD, VT		PART	
BOLTS: 3/4" DIA. H164-I GALV	STL GR: M270-50 UNQ	DRWN BY: EG	DATE: 5-11-09
HOLES: 13/16 UNQ		CHK:	JOB NO:
			SHT: a3

☒ NO EXCEPTION TAKEN
☐ CORRECTED
☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
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 PERFORMANCE OF HIS WORK.

CLOUGH HARBOR
 ENGINEERS, SURVEYORS & ARCHITECTS
 & LANDSCAPE ARCHITECTS

DATE 6/2/09 BY [Signature]

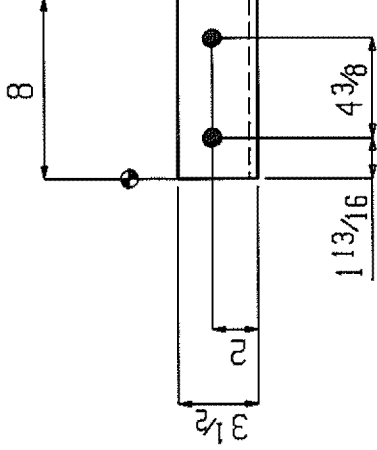


18 L5x3 1/2 x 3/8 x 1-0 a4

GRADE: M270-50

Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS: 3/4" DIA. M164-1 GALV	STL GR: M270-50 UNO	DRN BY: EG	DATE: 5-11-09
HOLES: 13/16 UNO	CHK:	JOB NO:	SHT: a4



96 L5x3 1/2 x 3/8 x 0-8 a7

GRADE: M270-50

- ☒ NO EXCEPTION TAKEN ☐ MAKE CORRECTIONS NOTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

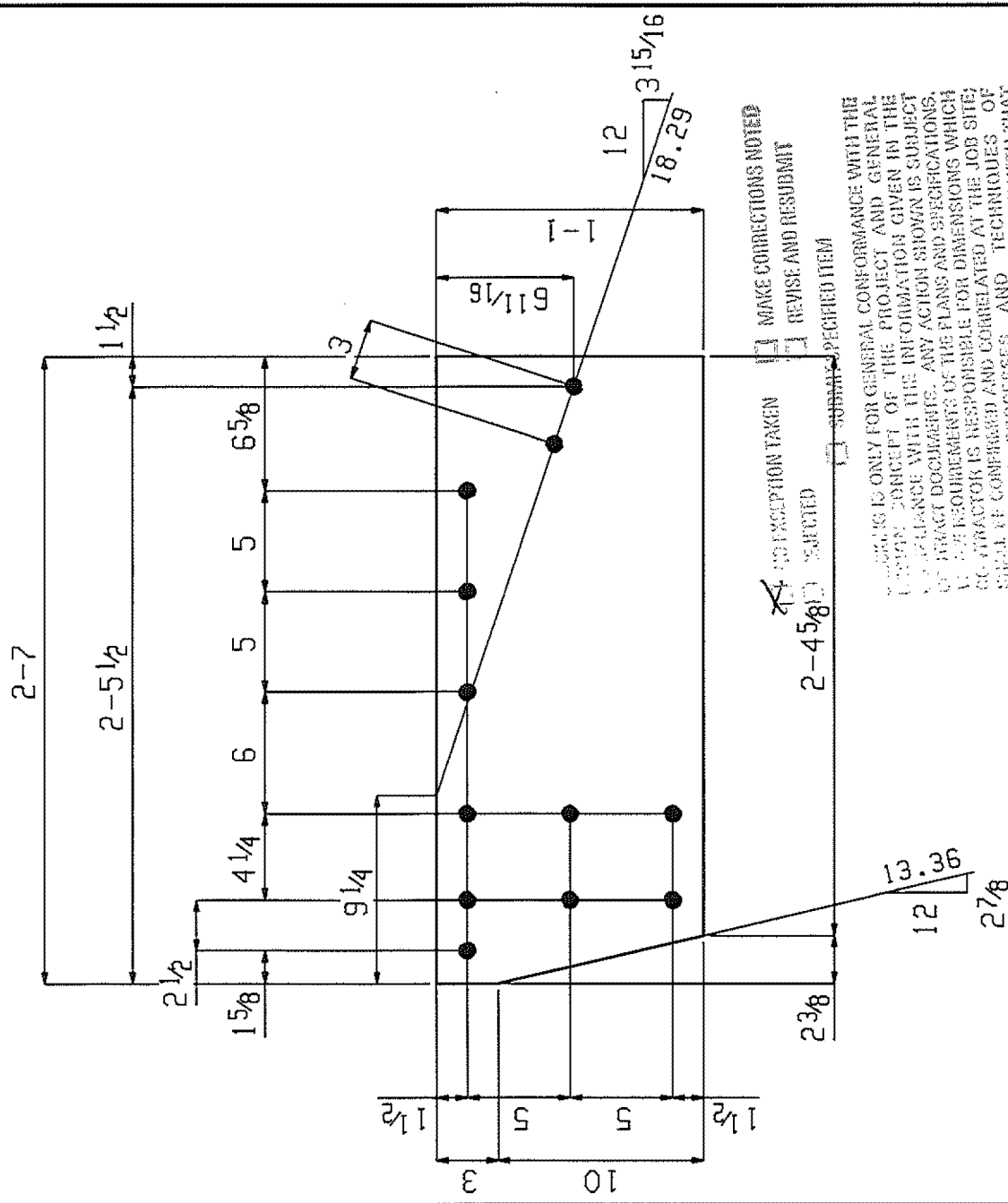
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CLOUGH HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS

Renaud Bros. Inc.
283 Fort Bridgeman Rd. #2
Vernon, VT. 05354
Phone 1-802 257-7383

DATE: 6/2/09 BY: [Signature]

JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNQ	DRWN BY: EG	DATE: 5-11-09
HOLES: 13/16 UNQ		CHK:	SHT: a7
		JOB NO:	



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THE CONTRACTOR IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL CONFORMANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS JOB SITE; SHALL BE CONFIRMED AND TECHNIQUES OF FABRICATION, PROTECTS AND THE SATISFACTORY CONTRIBUTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE PERFORMANCE OF HIS WORK.

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GRADE: M270-50

ONE/2/3

Renaud Bros. Inc.
283 Fort Bridgeman Rd. #2
Vernon, VT. 05354
Phone 1-802 257-7383

JOB:

WALLINGFORD BRIDGE
WALLINGFORD, VT

PART

BOLTS:
3/4" DIA.
M164-I GALV

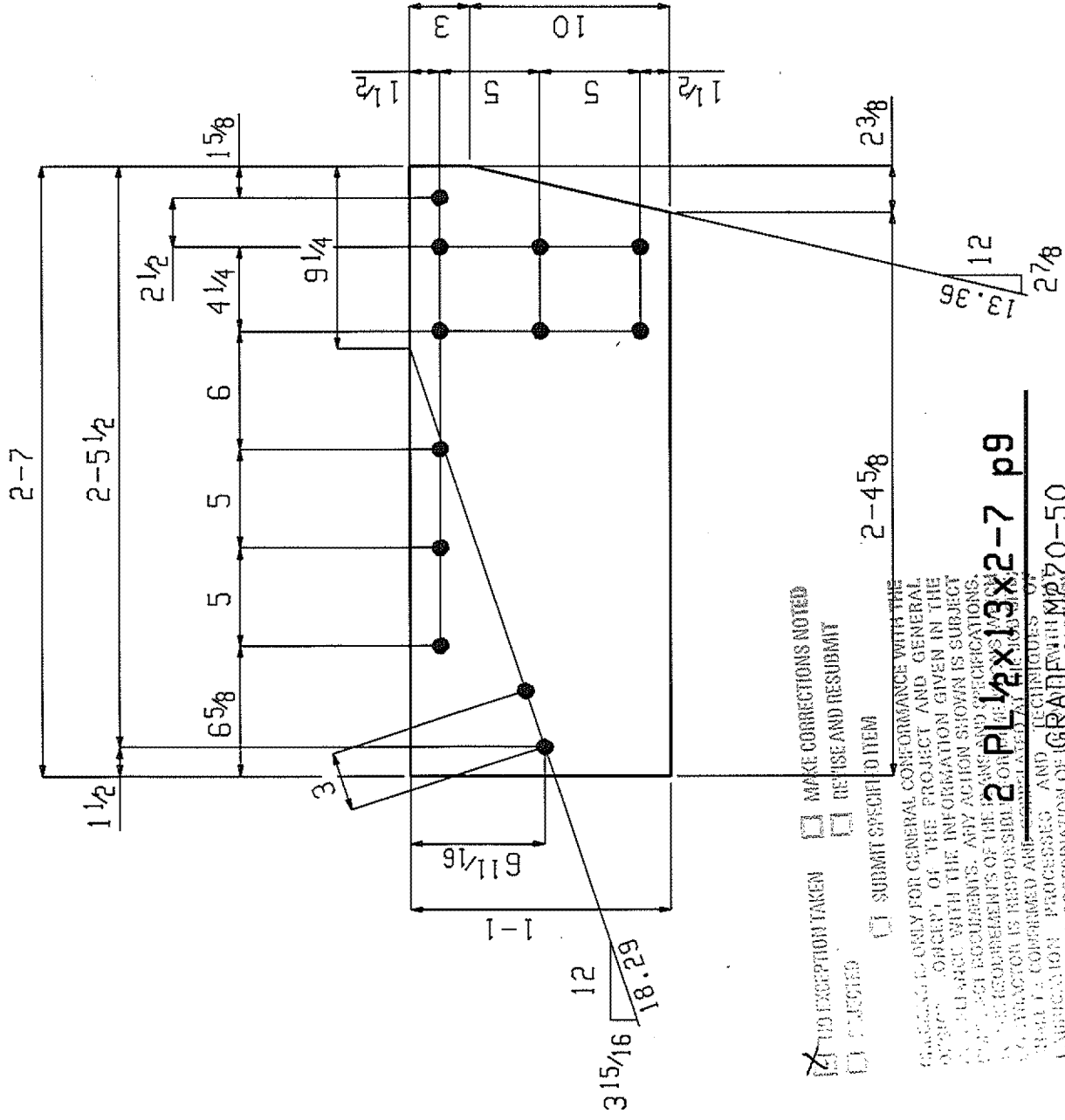
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HOLES:	13 1/16 UNO

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DATE: 5-11-09 SHT:

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☐ SUBMIT SPECIFIED ITEM

DRAWING IS ONLY FOR GENERAL CONFORMANCE WITH THE PROJECT AND GENERAL INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BRIDGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BRIDGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BRIDGE.

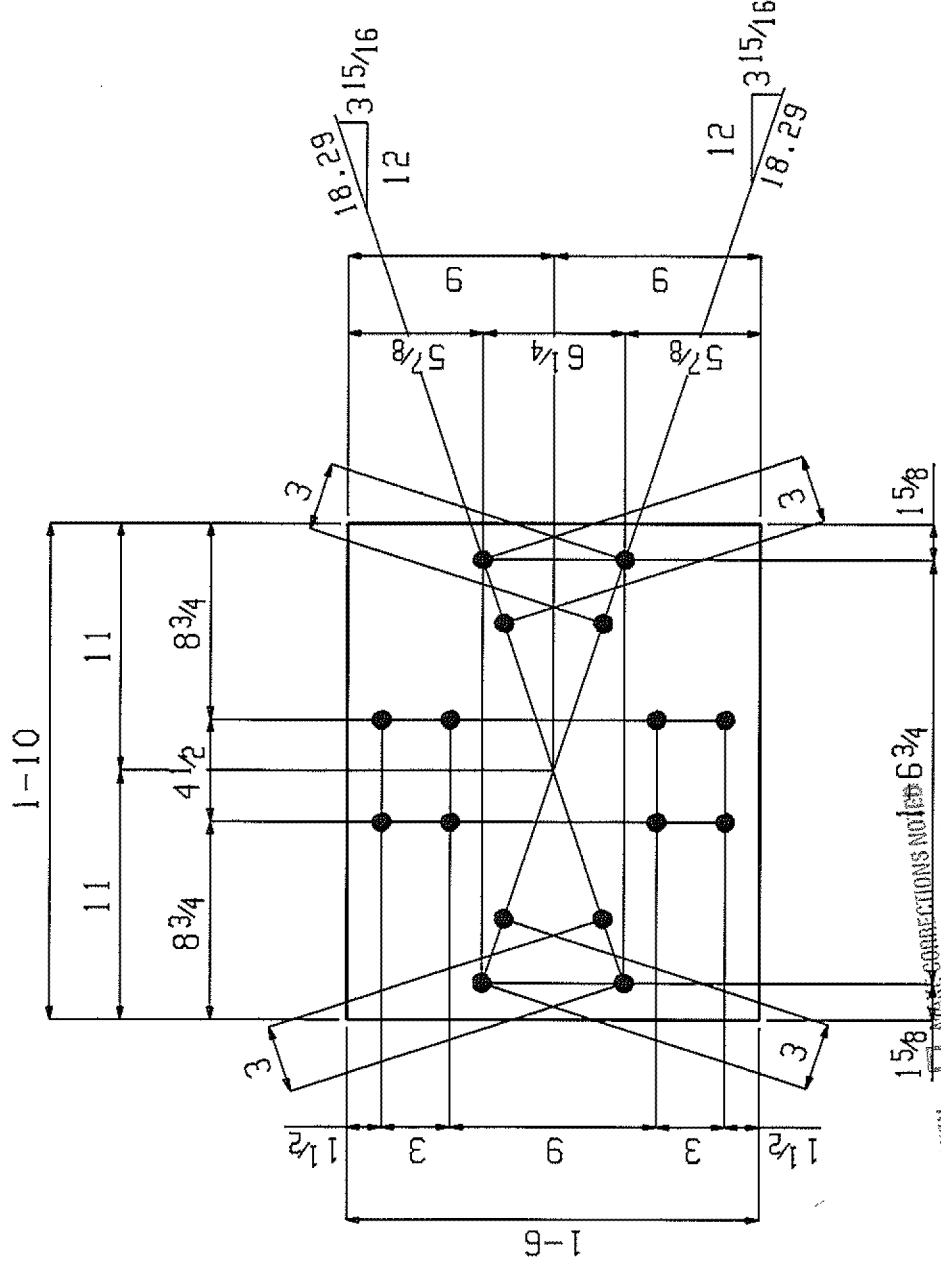
2 PL 1/2 X 13 X 2-7 p9

GRADE: MAY 10-50

CLOUGH HARBOUR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS
 6/12/09 BY *[Signature]*

Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS:	STL GR:	EG	DATE: 5-11-09
3/4" DIA.	M270-50 UNF		SHT:
M164-I GALV	HOLES: 13 1/8 UNF	CHK:	JOB NO:
			p9



☒ NO EXCEPTION TAKEN
☐ REJECTED
☐ SUBMIT SPECIFIED ITEM
☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT

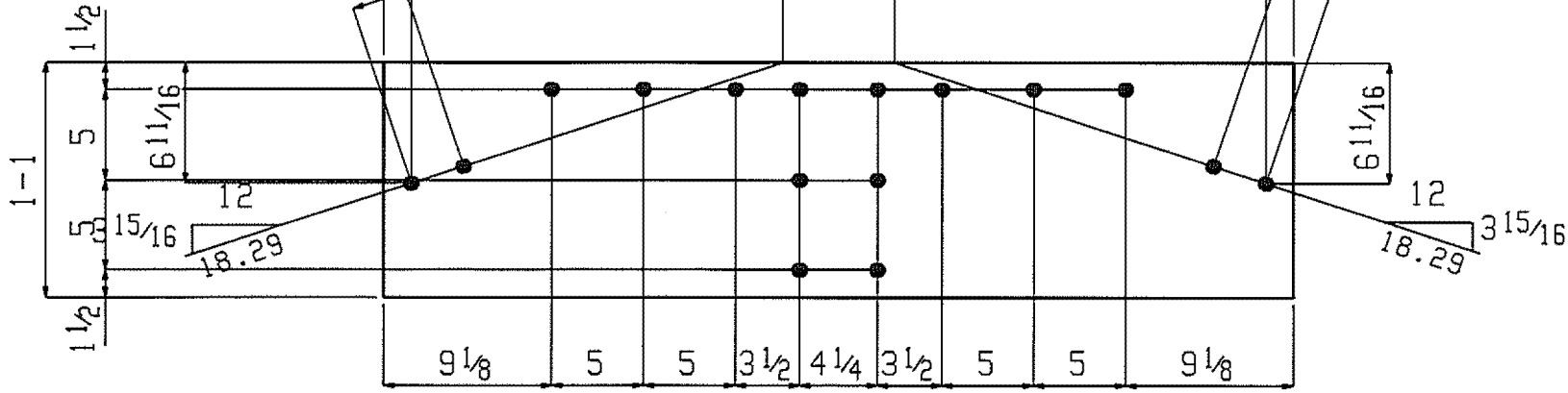
4 PL 12 x 18 x 1-10 p13

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CLOUGH PARLOUR & ASSOCIATES LLP
 CIVIL ENGINEERS, PLANNERS
 ARCHITECTS
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Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS:	STL GR:	DATE: 5-11-09	SHT:
3/4" DIA.	M270-50 UNF	EG	
M164-I GALV	HOLES: 13/16 UNF	CHK:	JOB NO:
			p13



6 PL $\frac{1}{2} \times 13 \times 4-1\frac{1}{2}$ p16
GRADE: M270-50

☒ NO EXCEPTION TAKEN
☐ REJECTED
☐ MAKE CORRECTIONS NOTED
☐ REVISE AND RESUBMIT
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CLUBB HANBOW & ASSOCIATES LLP

CLUBB HANBOW & ASSOCIATES LLP

DATE: 10/26/09 BY: [Signature]

Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

JOB: **WALLINGFORD BRIDGE**
 WALLINGFORD, VT

PART

BOLTS:
 $\frac{3}{4}$ " DIA.
 M164-1 GALV

STL GR: M270-50 UNO
 HOLES: 13 $\frac{1}{16}$ UNO

DRWN BY: EG
 CHK:

DATE: 5-11-09
 JOB NO:

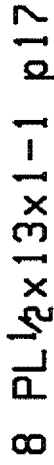
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CONFORMANCE IS ONLY FOR GENERAL CONFORMANCE WITH THE PROJECT CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE PROJECT DOCUMENTS. ANY ACTION SHOWN IN SUBJECT PROJECT DOCUMENTS OF THE PLANS AND SPECIFICATIONS, WHICH IS NOT COVERED AND COMPLAINED AT THE JOB SHEET, THE PROJECT PROCESSES AND TECHNIQUES OF THE PROJECT, COORDINATION OF HIS WORK WITH THAT OF OTHER TEAMS AND THE SATISFACTORY COMPLETION OF THE WORK.

SOCIETY OF AMERICAN LAWYERS

10/2/69



May 15 2009 03:08:08 PM

JOB: WALLINGFORD BRIDGE
WALLINGFORD, VT

JOB: **WALLINGFORD BRIDGE**
WALLINGFORD VT

BOLTS:
3/4" DIA.
M164-I GALV

STL GR:	M270-50 UNO
HOLES:	13 1/16 UNO

DRWN BY: EG	DATE: 5-11-09	SHT:
CHK:	JOB NO:	

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