

SEE SHEET 2 FOR INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



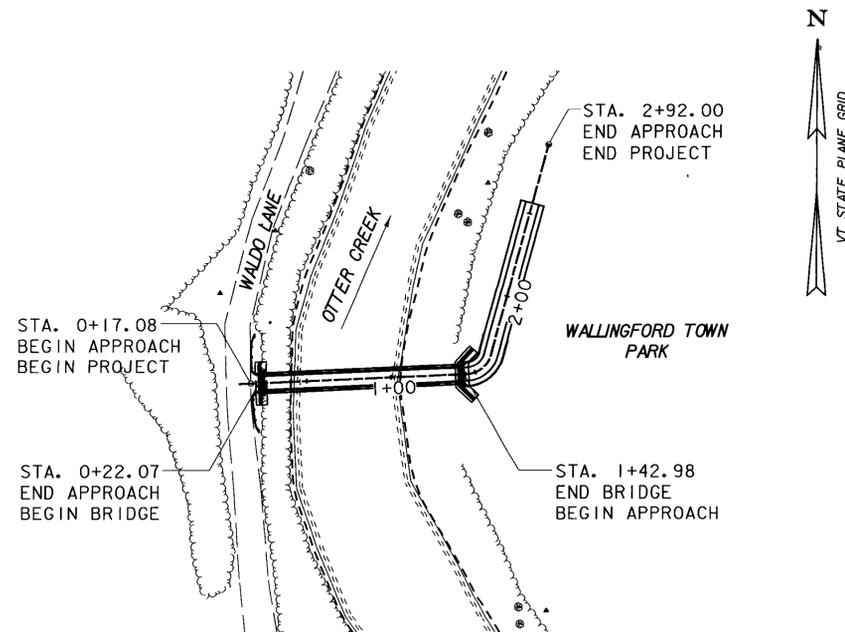
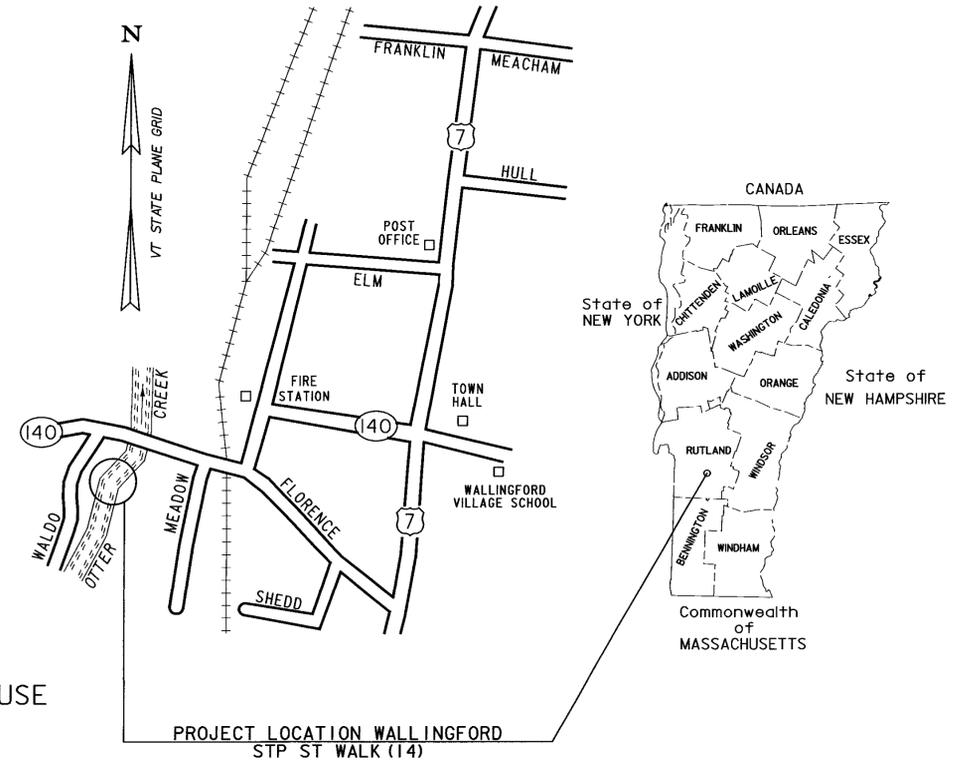
PROPOSED IMPROVEMENT BRIDGE PROJECT TOWN OF WALLINGFORD COUNTY OF RUTLAND

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



SCALE 1" = 50'
50 0 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 <i>Eric Foster</i>	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)	

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 A. Bruce

CHA

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (92)

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 <i>Richard A. Bruce</i>	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

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LIST OF STANDARDS

A-78	03-31-2004
A-80	03-31-2004
B-5	06-01-1994
E-100	01-02-2004
E-100A	01-02-2004
E-102	06-30-2003
E-102A	05-01-2004
E-106	03-01-2004
E-107	06-30-2003
E-107A	08-08-1995
E-111	03-11-1997
F-2	06-01-1994
G-1	01-03-2000
G-1D	01-03-2000
G-16	06-01-1994

SCOPE OF WORK

- REHABILITATION OF EXISTING TRUSSES, STORED IN A VAOT MAINTENANCE FACILITY IN CLARENDON, VT, OFF OF VT. ROUTE 7B. REHABILITATION INCLUDES COMPLETE REPLACEMENT OF INBOARD ANGLE ON TRUSS LOW CHORD, IN KIND REPLACEMENT OF ALL INBOARD GUSSET PLATES, LATERAL BRACING CONNECTION PLATES, PARTIAL REPLACEMENT OF EXISTING TRUSS MEMBERS, COMPLETE REPLACEMENT OF SELECT DIAGONALS AND REPLACEMENT OF CORRODED RIVETS WITH HIGH STRENGTH BOLTS THROUGHOUT THE TRUSSES.
- BLAST CLEANING AND PAINTING OF ALL REMAINING EXISTING STEEL.
- CONSTRUCTION OF NEW CAST-IN-PLACE CONCRETE SUBSTRUCTURES ON PILE FOUNDATIONS.
- INSTALLATION OF NEW TRUSS FLOOR SYSTEM, INCLUDING NEW TIMBER PLANK DECK, STRINGERS, FLOORBEAMS AND CONNECTIONS.
- RELATED APPROACH WORK INCLUDING CONSTRUCTION OF EARTHEN APPROACH RAMP AND NEW APPROACH RAILING.

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 50 =	7980 cfs
Q 10 =	5260 cfs	Q 100 =	9210 cfs
Q 25 =	N/A	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	VELOCITY =	5.4 fps
Q10 =	569.3 ft	"	6.7 fps
Q25 =	N/A	"	N/A
Q50 =	572.0 ft	"	6.9 fps
Q100 =	572.7 ft	"	7.0 fps

LONG TERM STREAMBED CHANGES:

IS THE ROADWAY OVERTOPPED BELOW Q100: _____
 FREQUENCY: _____
 RELIEF ELEVATION: _____
 DISCHARGE OVER ROAD @Q100: _____

UPSTREAM STRUCTURE

TOWN: Wallingford DISTANCE: 3700 ft
 HIGHWAY #: US Route 7 STRUCTURE #: 79
 CLEAR SPAN: 117' (west) 135' (east) CLEAR HEIGHT: -
 YEAR BUILT: 1996 FULL WATERWAY: 5505 sq-ft
 STRUCTURE TYPE: 2 span continuous welded plate girder

DOWNSTREAM STRUCTURE

TOWN: Wallingford DISTANCE: 800 ft
 HIGHWAY #: Vermont Route 140 STRUCTURE #: 54
 CLEAR SPAN: 127' CLEAR HEIGHT: 22'
 YEAR BUILT: Unknown FULL WATERWAY: 1587 sq-ft
 STRUCTURE TYPE: Steel Truss

LOAD FACTOR LOAD RATING (TONS)

LOADING LEVELS	TRUCK						
	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A SEMI
INVENTORY	23						
POSTED							
OPERATING	41						

COMMENTS:

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2007	N/A	N/A	N/A	N/A	N/A
2027	N/A	N/A	N/A	N/A	N/A

20 year ESAL for flexible pavement from N/A to N/A : N/A
 40 year ESAL for flexible pavement from N/A to N/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	VELOCITY=	5.2 fps
Q10 =	569.4 ft	"	6.6 fps
Q25 =	N/A	"	N/A
Q50 =	572.0 ft	"	6.9 fps
Q100 =	572.7 ft	"	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 DEPTH OR ELEVATION:
 ORDINARY LOW WATER: - Elev. 562.5 ft
 ORDINARY HIGH WATER: - 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

- DESIGN LIVE LOAD AASHTO Pedestrian LL (trusses), H-10 (floorbeams & stringers)
- DESIGN SPAN 117'-0"
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A
ON LEDGE N/A
- ALLOWABLE LOAD FOR PILING 54 kips
TYPE Concrete filled 12.75" O.D. x 3/8" steel pipe piling, ASTM A-252 Grade 2 (Fy = 35 ksi)
ESTIMATED LENGTH 51' (Abutment 1) 53' (Abutment 2)
- STRUCTURAL STEEL AASHTO M270/M270 GRADE 50 Painted
- REINFORCING STEEL GRADE 60
- 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)
- DESIGN SOIL UNIT WEIGHT 140 pcf
- DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL N/A

TRAFFIC MAINTENANCE

- 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
- TRAFFIC CONTROL SIGNALS REQUIRED? No
- 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
 SHEET 2 OF 26



I EPSC NARRATIVE

I.1 PROJECT 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.2.1 OFF 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 GRAVELLY 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 GRAVELLY 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.4.1 MARK 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.4.11 DE-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.

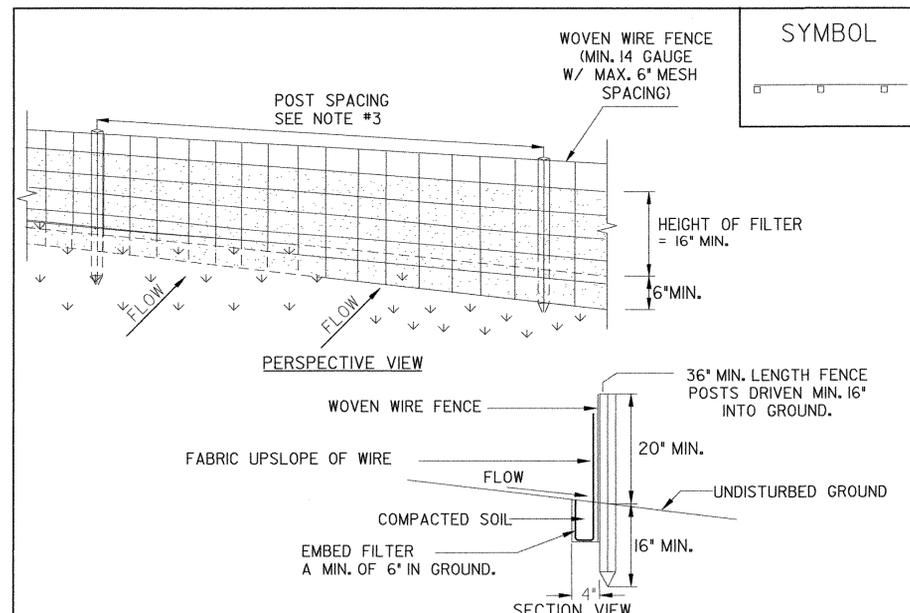
EPSC NARRATIVE

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

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



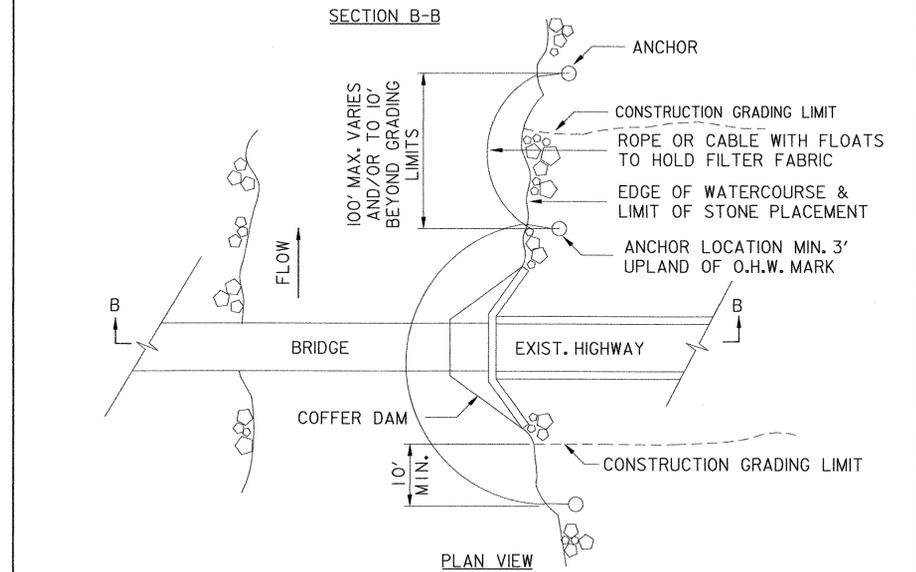
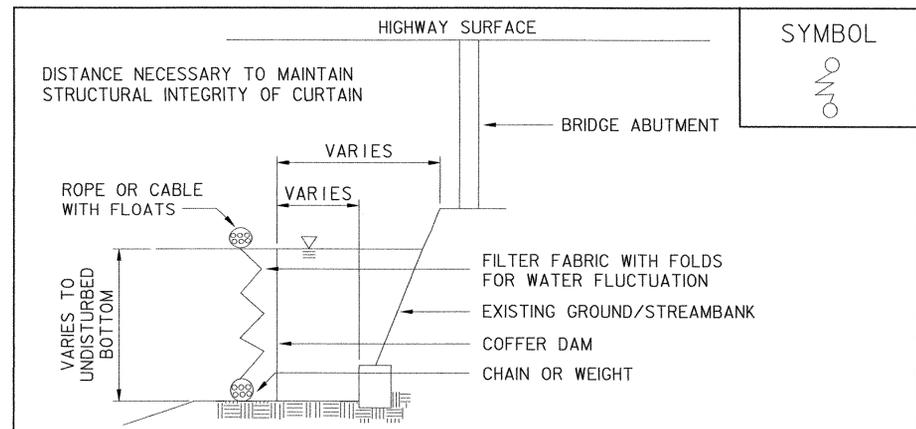


CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE REINFORCEMENT IS ONLY REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.
2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6\"/>

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE



ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT AGENCY OF TRANSPORTATION

TURBIDITY CURTAIN

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

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

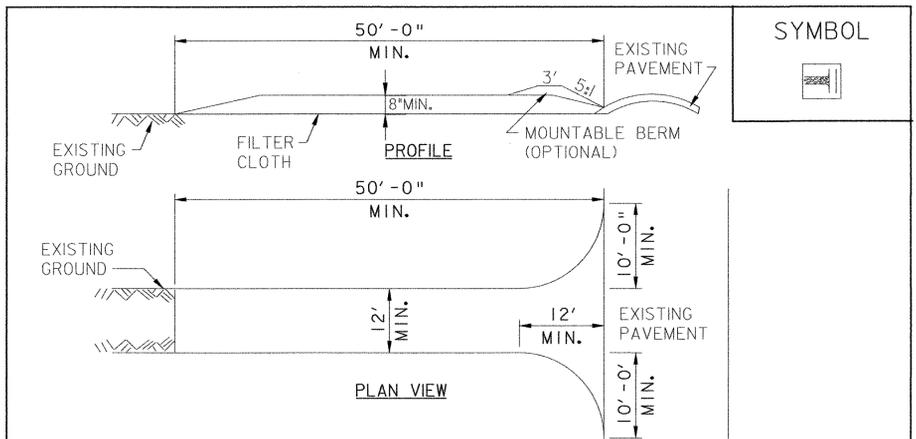
THIS ITEM SHALL BE PAID FOR UNDER ITEM
 649.51 GEOTEXTILE FOR SILT FENCE OR
 649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED

EPSC DETAIL SHEET 1

PROJECT NAME: WALLINGFORD	PLOT DATE: 1/9/2009
PROJECT NUMBER: STP ST WALK(14)	DRAWN BY: W. WEATHERBY
FILE NAME: \$FILES\$	DESIGNED BY: L. HARDEN
PROJECT MANAGER: SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
CHECKED BY: P. HALSTEAD	SHEET 8 OF 26



FILE NAME: \\JA\B665\N\pr\ef\ncal_submission\202136\epsc.dgn
 DATE/TIME: 1/9/2009 11:52:52
 USER: W. WEATHERBY



SYMBOL



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES).
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
 ORIGINALLY DEVELOPED BY USDA-NRCS
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**STABILIZED
 CONSTRUCTION
 ENTRANCE**

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

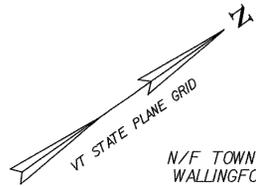
PROJECT NAME:	WALLINGFORD	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	DRAWN BY:	W. WEATHERBY
FILE NAME:	FILES	DESIGNED BY:	L. HARDEN
PROJECT MANAGER:	SUSAN SCRIBNER	CHECKED BY:	P. HALSTEAD
BRIDGE DESIGN SUPERVISOR:	P. HALSTEAD	SHEET	9 OF 26



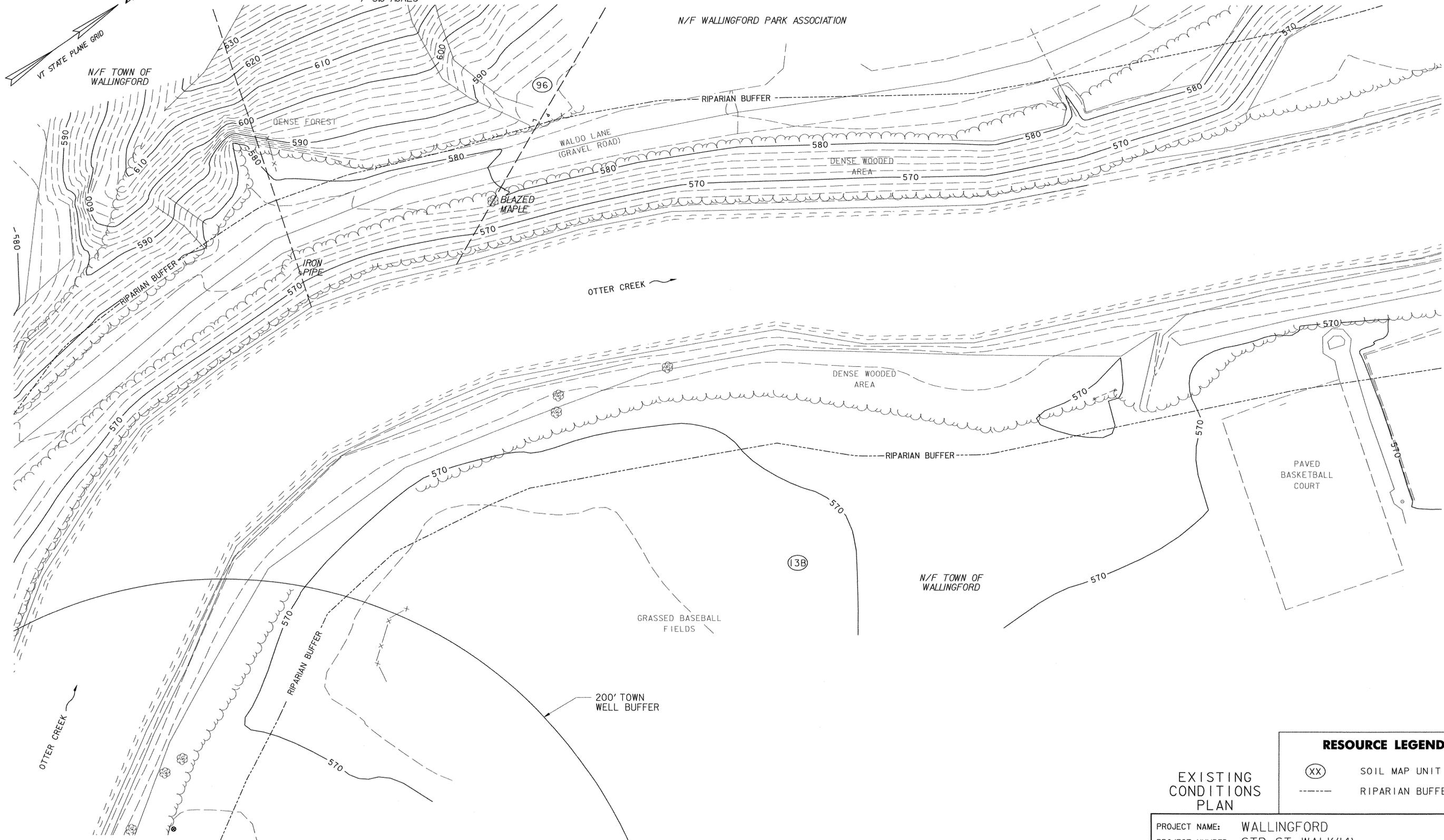
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 USER:

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

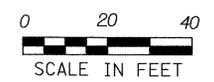


RESOURCE LEGEND	
(XX)	SOIL MAP UNIT TYPE
---	RIPARIAN BUFFER

EXISTING
 CONDITIONS
 PLAN

PROJECT NAME:	WALLINGFORD	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	DRAWN BY:	W. WEATHERBY
FILE NAME:	FILES#	DESIGNED BY:	L. HARDEN
PROJECT MANAGER:	SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR:	P. HALSTEAD
CHECKED BY:	P. HALSTEAD	SHEET	10 OF 26

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

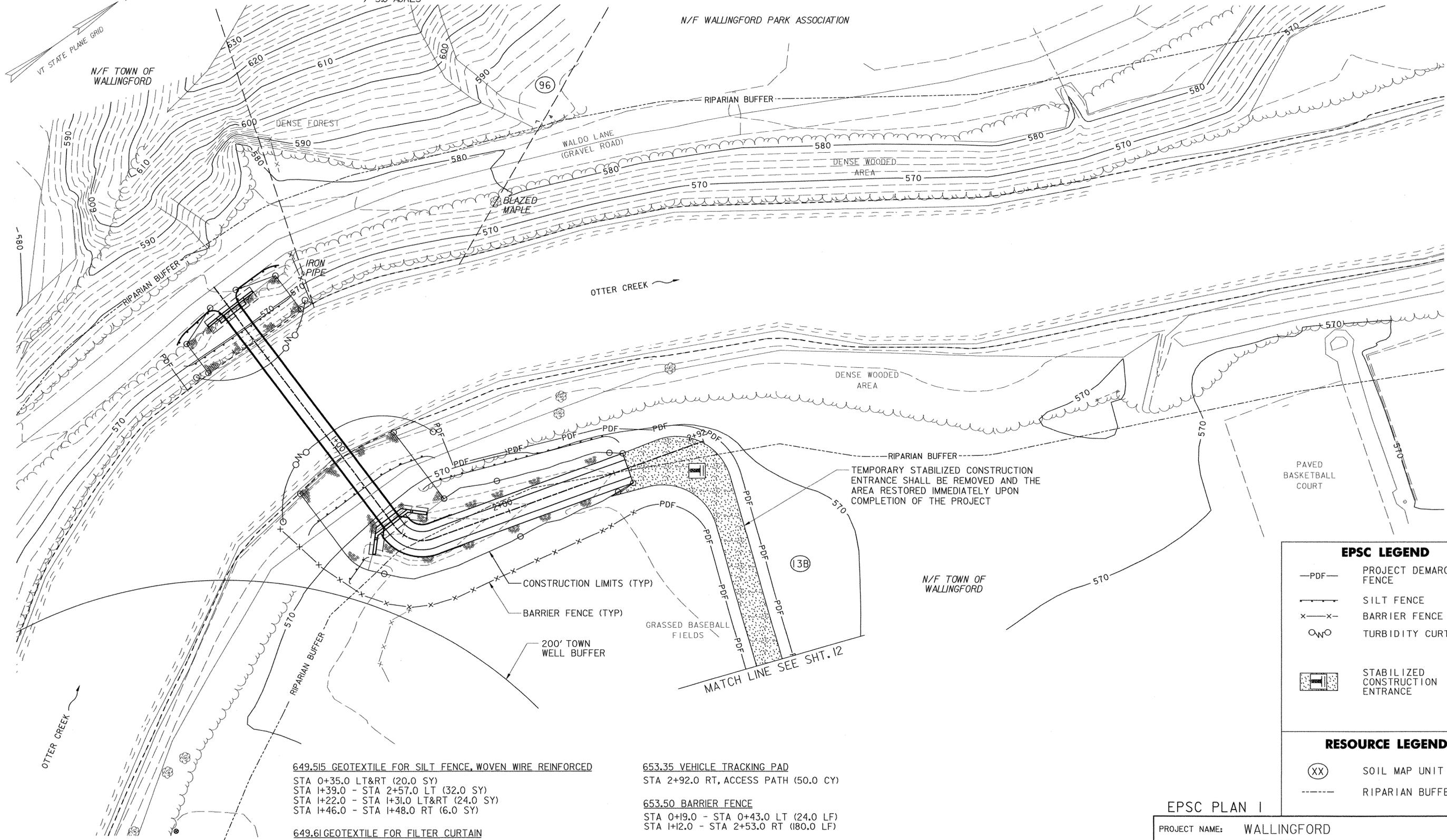
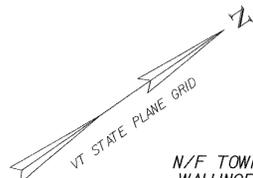


FILE NAME: I:\A\8669\STN\pref\m.d\admission\2021136\erodgn
 DATE/TIME: 1/9/2009
 USER: 2552

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



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

649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED
 STA 0+35.0 LT&RT (20.0 SY)
 STA 1+39.0 - STA 2+57.0 LT (32.0 SY)
 STA 1+22.0 - STA 1+31.0 LT&RT (24.0 SY)
 STA 1+46.0 - STA 1+48.0 RT (6.0 SY)

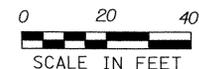
649.61 GEOTEXTILE FOR FILTER CURTAIN
 STA 0+37.0 - STA 0+53.0 LT&RT (60.0 SY)
 STA 0+92.0 - STA 1+21.0 LT&RT (86.0 SY)

653.35 VEHICLE TRACKING PAD
 STA 2+92.0 RT, ACCESS PATH (50.0 CY)

653.50 BARRIER FENCE
 STA 0+19.0 - STA 0+43.0 LT (24.0 LF)
 STA 1+12.0 - STA 2+53.0 RT (180.0 LF)

653.55 PROJECT DEMARCATION FENCE
 STA 0+19.0 - STA 0+40.0 RT (21.0 LF)
 STA 1+18.0 - STA 2+92.0 LT (240.0 LF)
 STA 2+53.0 RT - STA 2+90.0 RT (100.0 LF)

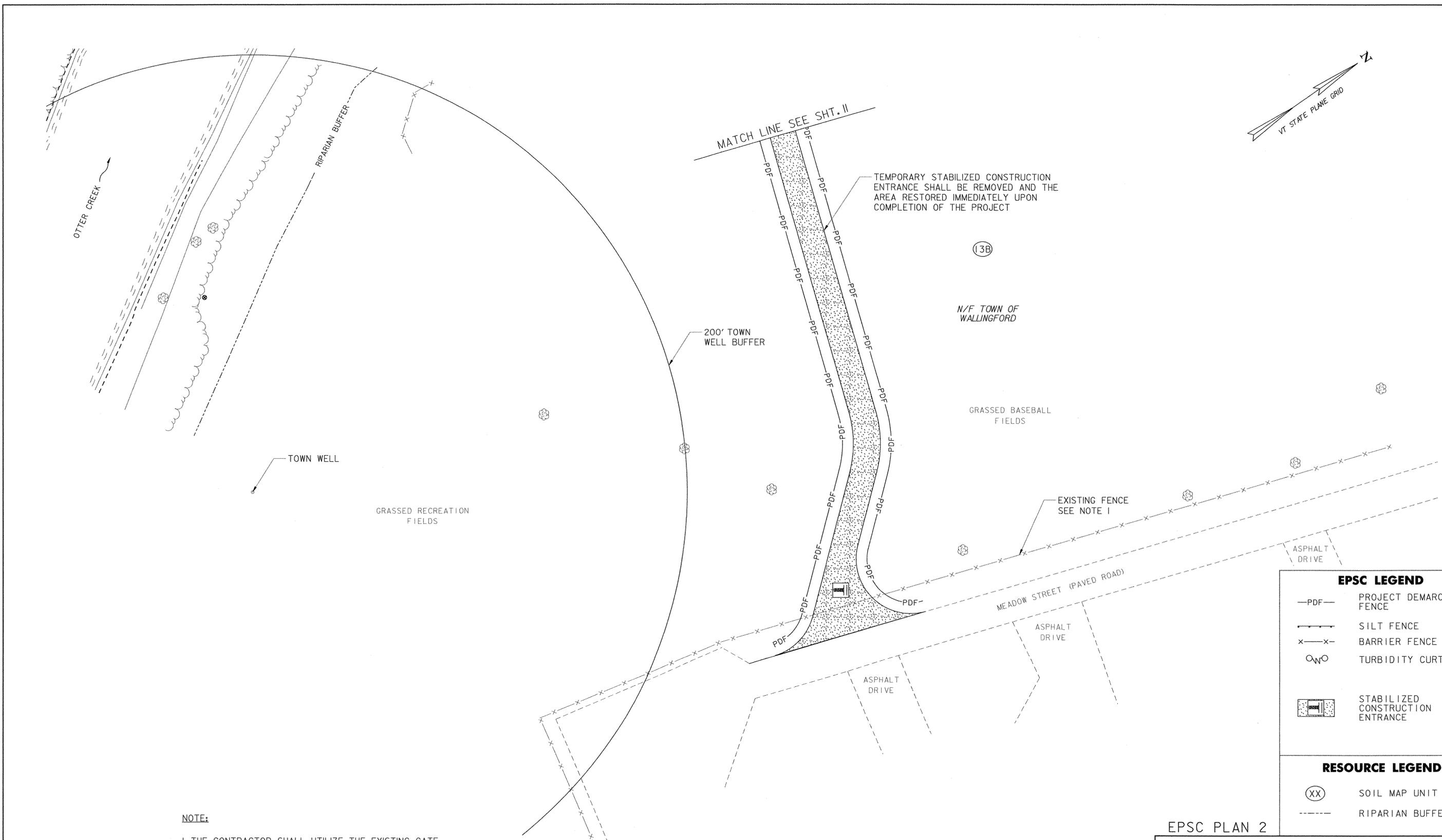
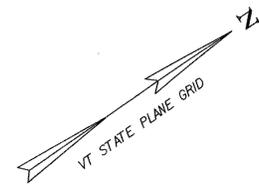
DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (1992)



EPSC PLAN 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 II OF 26

FILE NAME: I:\AR6659\NISTN\prj\ef\in\sub\mission\2021\36\er\cdgn
 DATE/TIME: 1/9/2009 11:29:20
 USER: 22652



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

NOTE:
 I. 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.

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (1992)

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)



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

FILE NAME: I:\A\6669\WSTN\prefinal_submission\202136\epsc.dgn
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 USER: z2552

GENERAL NOTES:

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 64.10 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.
Fy=35,000 PSI Fb=19,250 PSI Fv= 8,750 PSI
NEW STRUCTURAL STEEL (TRUSSES/FLOOR SYSTEM), AASHTO M-270 GRADE 50:
Fy=50,000 PSI Fb=27,500 PSI Fv=16,500 PSI
CONCRETE, HIGH PERFORMANCE, CLASS B: f'c=3,500 PSI fc=1,400 PSI
REINFORCING STEEL: Ft=24,000 PSI GRADE 60
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.

GENERAL NOTES (CONT):

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 3/4" BOLTS INSTALLED IN 1 1/8" 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.

TRUSS REHABILITATION NOTES (CONT):

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 FLOORBEAM 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 3/4" DIAMETER RIVETS IN 1 1/8" 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 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.

TRUSS REHABILITATION NOTES (CONT):

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. TIMBER DECK PLANK MATERIAL SHALL BE DRESSED SIZE #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.

FOUNDATION NOTES:

1. ALL PIPE PILING INSTALLED UNDER ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED 12 3/4" O.D. X 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 3/4" X 3/8" PIPE)

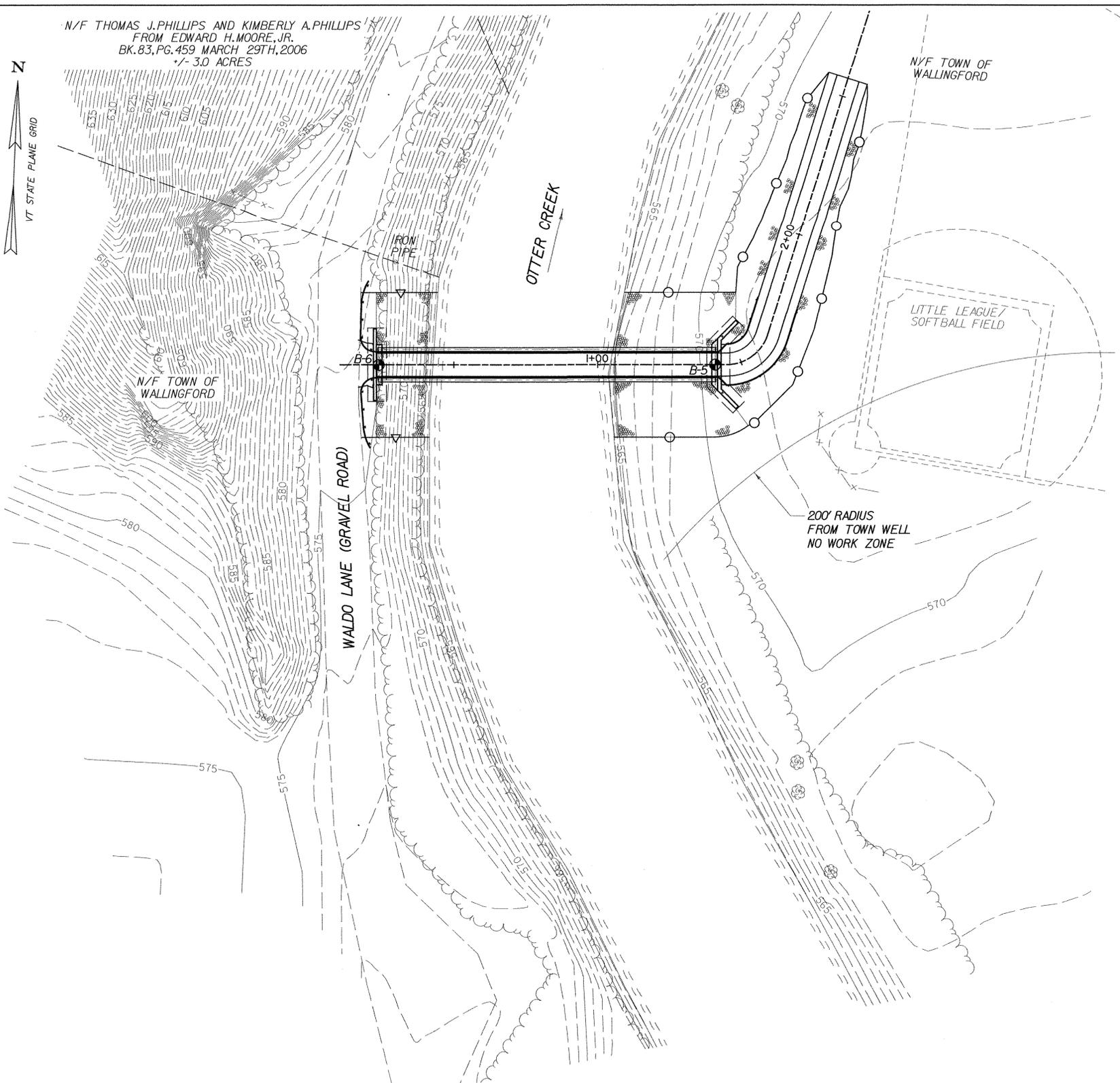
PROJECT NOTES

PROJECT NAME:	WALLINGFORD	FILE NAME:	\$FILES\$	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	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: \\a:\s669\meson\pof\inc1\submissions\2021136\gennotes_r_rev.dgn
 DATE/TIME: 1/9/2009 11:25:52
 USER: 2852

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



PLAN
 SCALE 1" = 20'-0"
 20 0 20

SAMP./CORE NUMBER	SAMP. ADV./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
SI	2.0	1.8	2-3-4-5	7			f. SAND, Some Silt, trace f. gravel, brown, loose, moist (A-2-4)	100		
RI	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	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	DRAWN BY:	W. WEATHERBY
FILE NAME:	\$FILES\$	DESIGNED BY:	L. HARDEN
PROJECT MANAGER:	SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR:	P. HALSTEAD
CHECKED BY:	P. HALSTEAD	SHEET	14 OF 26



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 USER: 2652

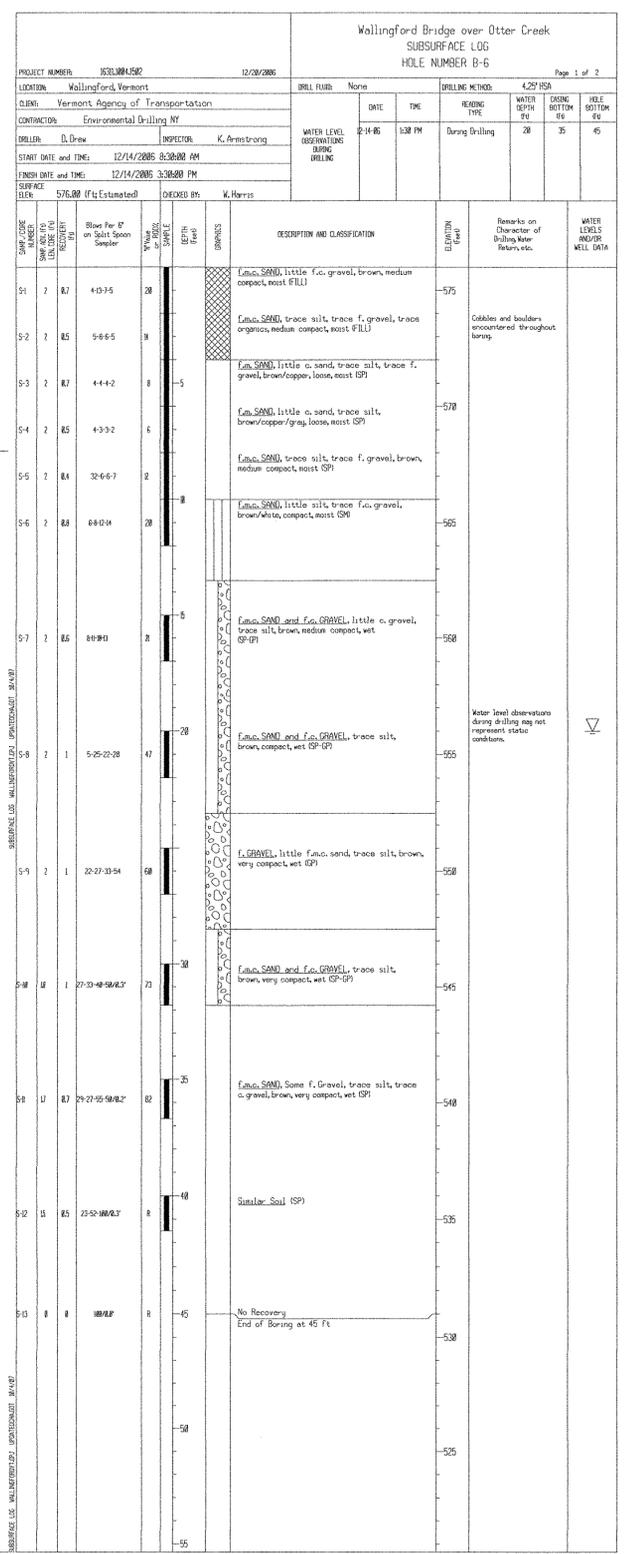
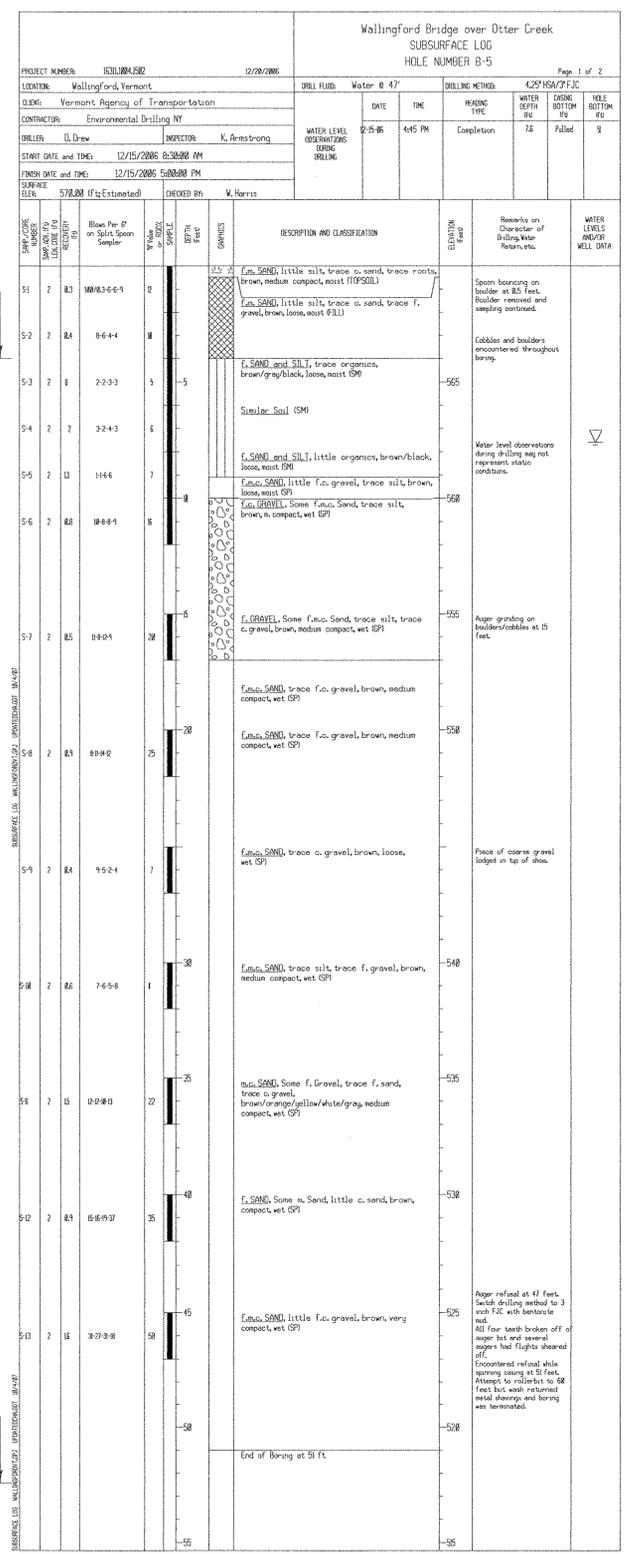


TABLE 1
TYPICAL SAMPLE TYPES

- SPLIT SPOON (1 3/8" I.D.)
- NX SIZE ROCK CORE
- SHELBY TUBE "UNDISTURBED"
- AUGER SAMPLE

TABLE 2
SAMPLE MATERIAL PROPORTIONS

ADJECTIVE	PERCENTAGE OF SAMPLE
"and"	35% - 50%
"some"	20% - 35%
"little"	10% - 20%
"trace"	< 10%

Standard split spoon samples may not recover particles with any dimension larger than 1 3/8". Therefore, reported gravel percentages may not reflect actual conditions.

TABLE 3
DENSITY/CONSISTENCY

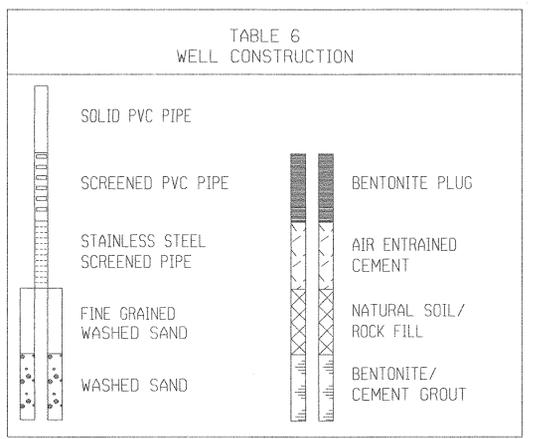
GRANULAR SOILS		COHESIVE SOILS	
Blows/ft.	Density	Blows/ft.	Consistency
< 5	Very Loose	< 2	Very Soft
5-10	Loose	2-4	Soft
11-30	Med. Compact	5-8	Med. Stiff
31-50	Compact	9-15	Stiff
> 50	Very Compact	16-30	Very Stiff
		> 30	Hard

TABLE 4
USCS CLASSIFICATION, PARTICLE SIZE, & GRAPHICS

MAJOR PARTICLE SIZE DIVISION	USCS SYMBOL	GRAPHIC SYMBOL	GENERAL DESCRIPTION
GRAVEL Coarse: 3"-3/4" Fine: 3/4"-#4 Classification based on > 50% being gravel	GW		Well graded gravels, gravel & sand mix.
	GP		Poorly graded gravels, gravel & sand mix.
	GM		Gravel, sand and silt mix.
	GC		Gravel, sand and clay mix.
SAND Coarse: #4-#10 Med.: #10-#40 Fine: #40-#200 Classification based on > 50% being sand	SW		Well graded sand, sand & gravel mix.
	SP		Poorly graded sand, sand & gravel mix.
	SM		Sand and silt mix.
	SC		Sand and clay mix.
SILT & CLAY	ML		Inorganic silt, low plasticity.
	CL		Inorganic clay, low plasticity.
	OL		Organic silt/clay, low plasticity.
	MH		Inorganic silt, high plasticity.
ORGANIC SOILS	CH		Inorganic clay, high plasticity.
	OH		Organic silt/clay, high plasticity.
ORGANIC SOILS	Pt		Peat and other highly organic soils.
FILL	Fill		Miscellaneous fill materials.

TABLE 5
ROCK CLASSIFICATION TERMS

HARDNESS:		
Very Soft	Carves	
Soft	Grooves with knife	
Med. Hard	Scatched easily with knife	
Hard	Scatched with difficulty	
Very Hard	Cannot be scratched with knife	
WEATHERING:		
Fresh	Slight or no staining of fractures, little or no discoloration, few fractures.	
Slightly	Fractures stained, discoloration may extend into rock 1", some soil in fractures.	
Moderately	Significant portions of rock stained and discolored, soil in fractures, loss of strength.	
Highly	Entire rock discolored and dull except quartz grains, severe loss of strength.	
Complete	Weathered to a residual soil.	
BEDDING:		ROD:
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%



ABUTMENT 2
BOTTOM OF FOOTING
EL.566.00

ABUTMENT 1
BOTTOM OF FOOTING
EL.568.08

ABUTMENT 2
ESTIMATED PILE
TIP EL.514.00

ABUTMENT 1
ESTIMATED PILE
TIP EL.518.00

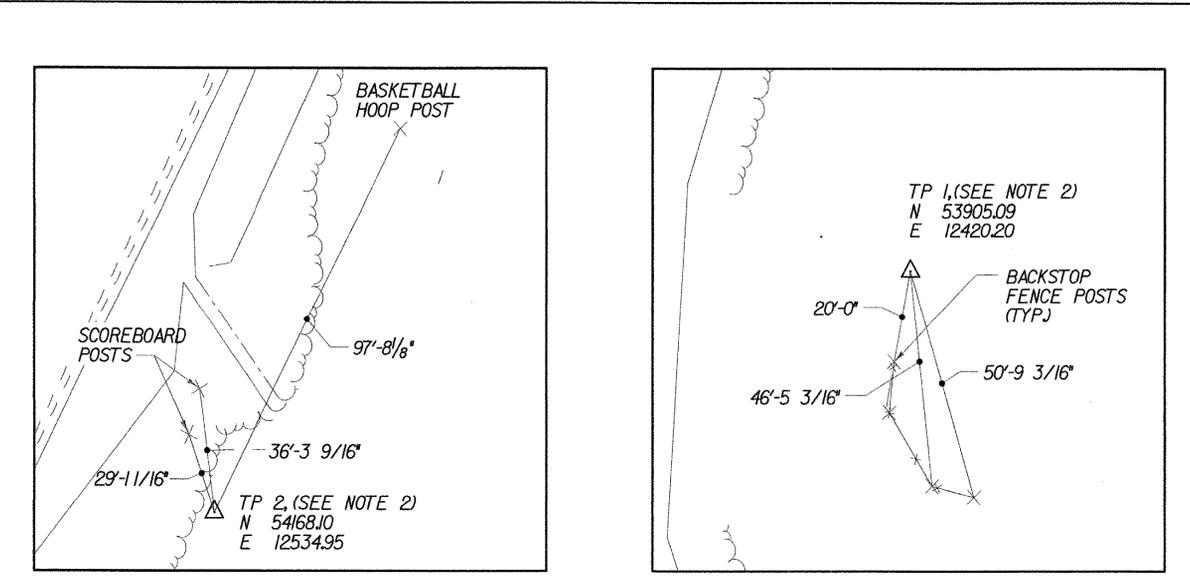
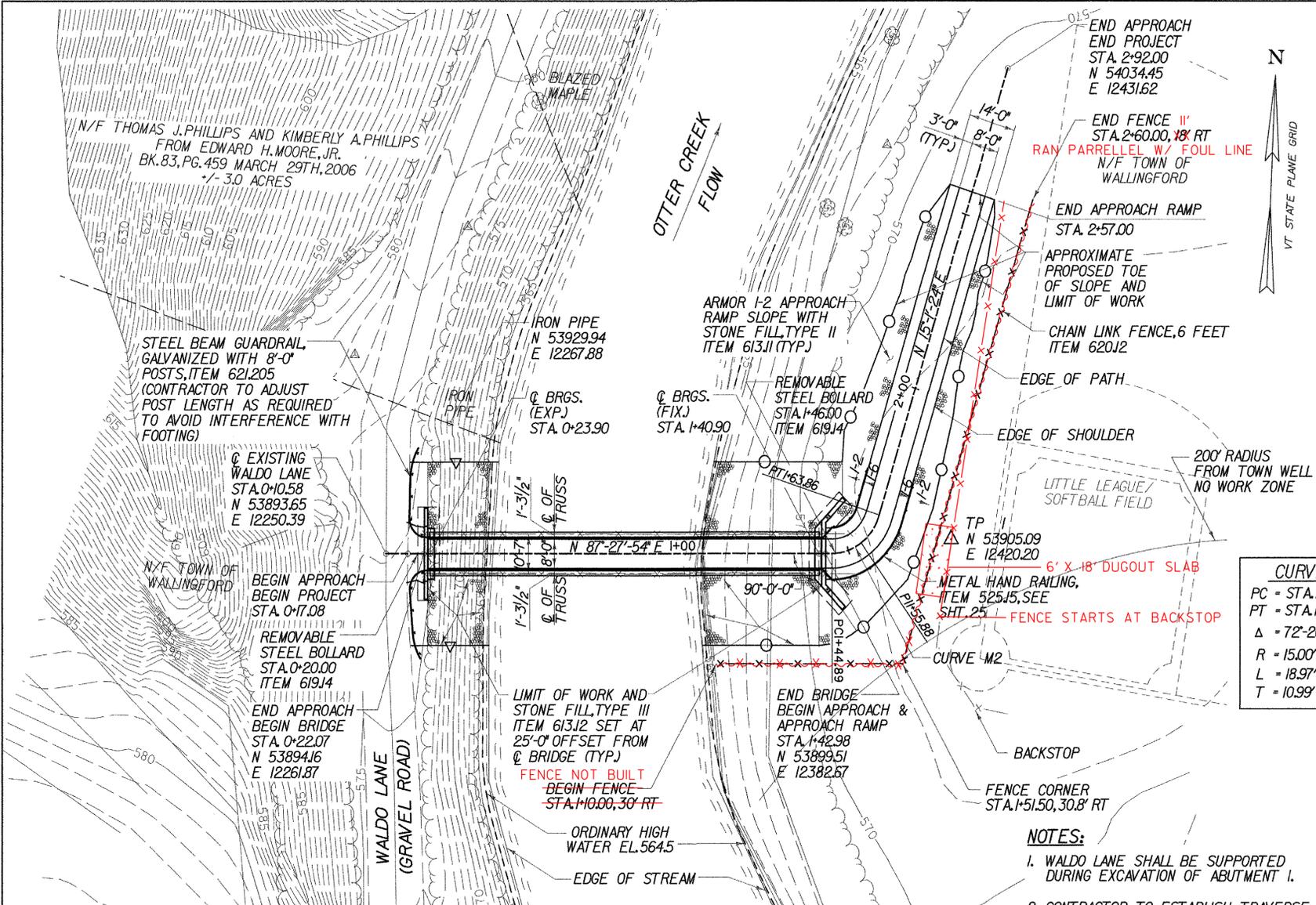
NOTE:
SEE SHT.14 FOR BORING LOCATIONS



BORING LOGS

PROJECT NAME: WALLINGFORD	PLOT DATE: 1/9/2009
PROJECT NUMBER: STP ST WALK(14)	DRAWN BY: W. WEATHERBY
FILE NAME: \$FILES\$	CHECKED BY: P. HALSTEAD
PROJECT MANAGER: SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
DESIGNED BY: L. HARDEN	SHEET 15 OF 26

FILE NAME: \\A:\9659\mstun\p\ref\m\1-submission\202136\borlog.dgn
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CURVE M2

PC = STA. 1+44.89

PT = STA. 1+63.86

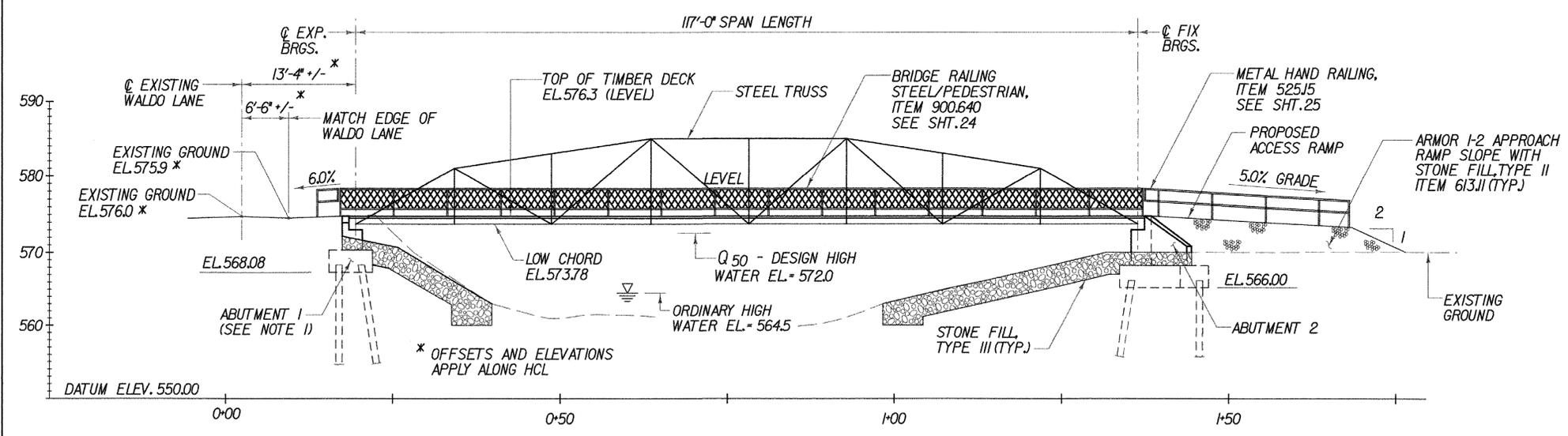
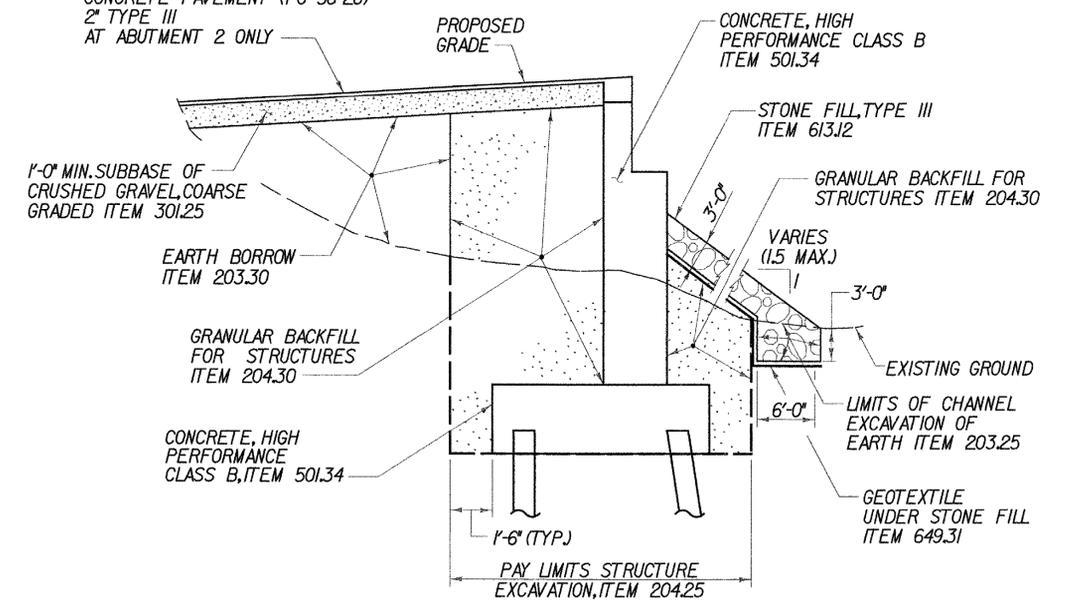
Δ = 72°-26'-30"

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

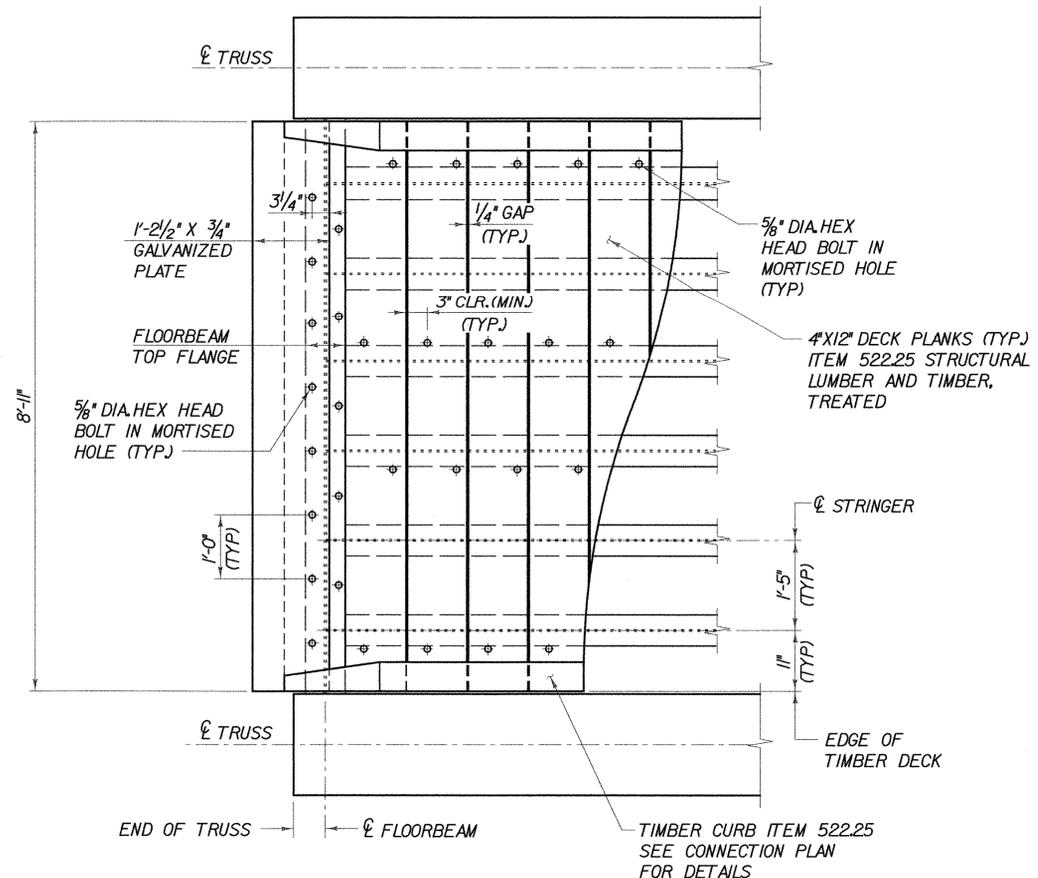
DRAWN BY: W. WEATHERBY

CHECKED BY: P. HALSTEAD

SHEET 16 OF 26

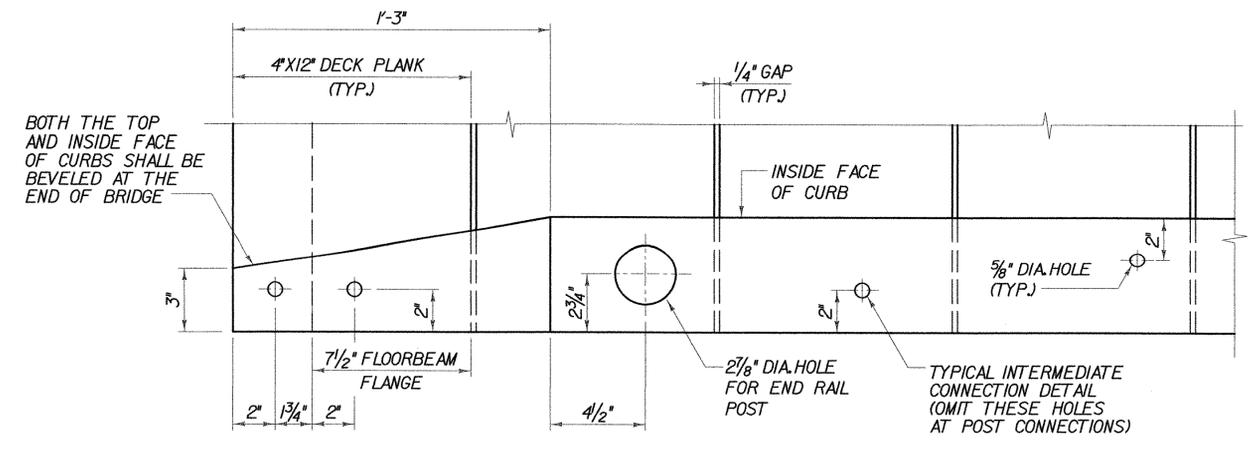


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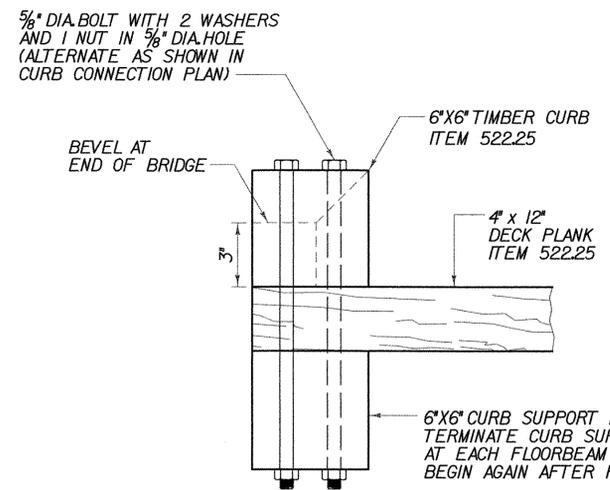
TIMBER DECK PARTIAL PLAN

SCALE 3/4" = 1'-0"



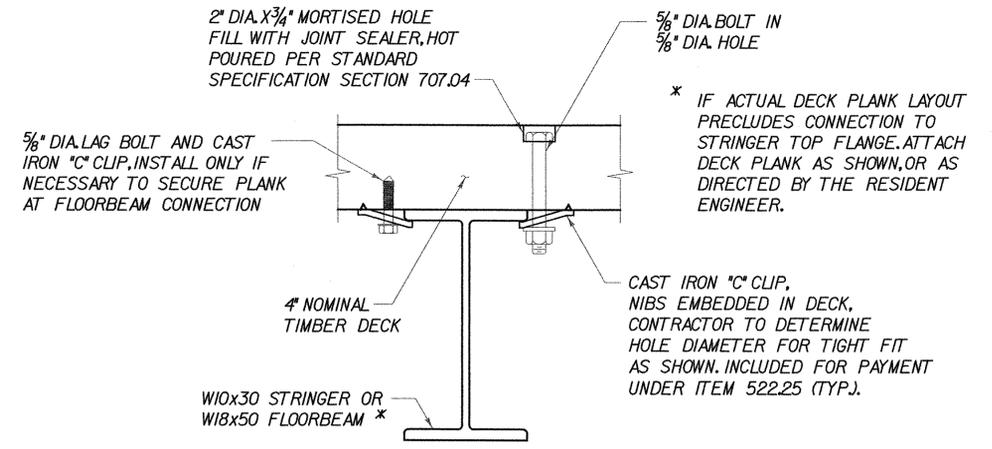
CURB CONNECTION PLAN

SCALE 3" = 1'-0"



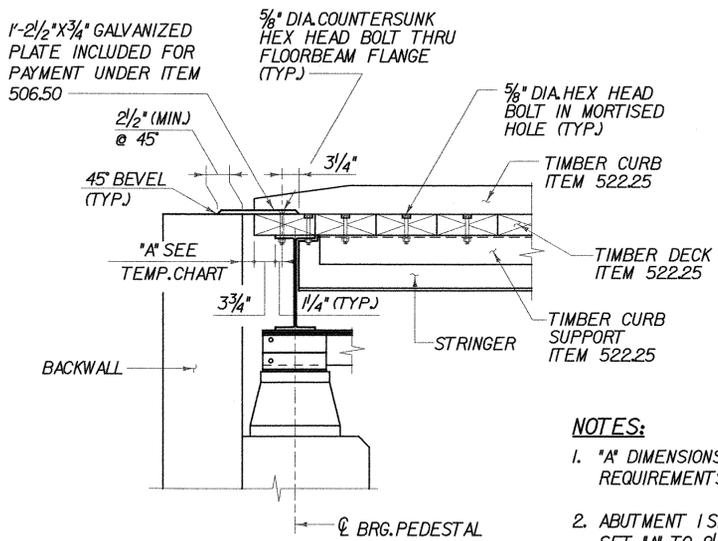
TYPICAL CURB SECTION

SCALE 3" = 1'-0"



DECK CONNECTION DETAIL

SCALE 3" = 1'-0"



END JOINT DETAIL

SCALE 3/4" = 1'-0"

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

DECK PLAN AND DETAILS

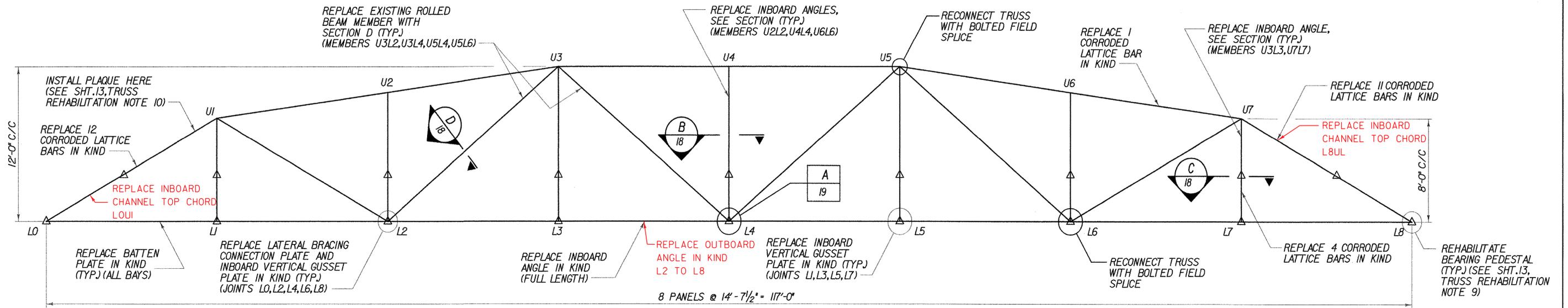
PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

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 17 OF 26



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T1 TRUSS ELEVATION LOOKING NORTH

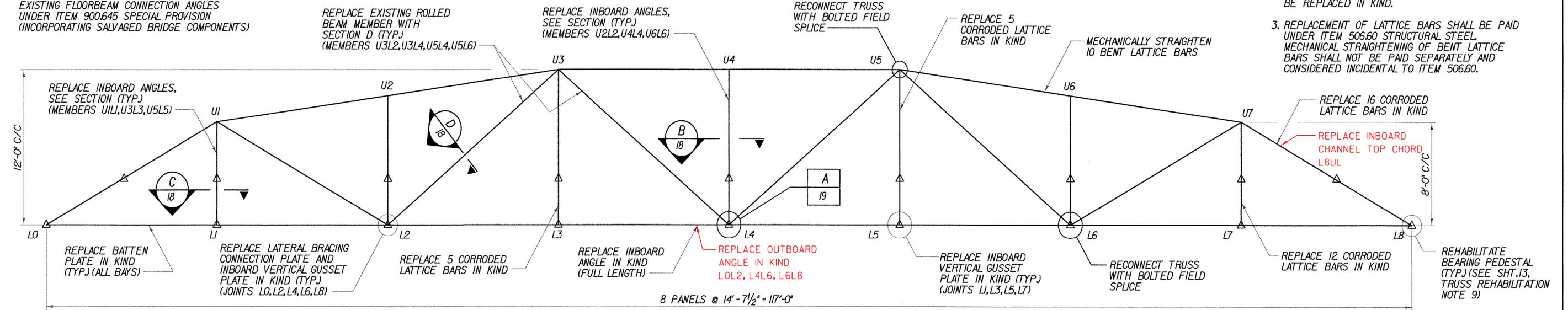
SCALE 1/4" = 1'-0"
1 0 2 4 6

NOTES:

- SEE SHT.13 FOR ADDITIONAL INFORMATION REGARDING PAYMENT AND REQUIRED SUBMITTALS.
- WHERE NEW STRUCTURAL STEEL IS NOT FULLY DETAILED IN THE PLANS, THE CONTRACTOR SHALL DETAIL THE MEMBERS TO ACCOMMODATE FIELD FIT-UP AT COMPONENTS/MEMBERS TO BE REPLACED IN KIND.
- REPLACEMENT OF LATTICE BARS SHALL BE PAID UNDER ITEM 506.60 STRUCTURAL STEEL. MECHANICAL STRAIGHTENING OF BENT LATTICE BARS SHALL NOT BE PAID SEPARATELY AND CONSIDERED INCIDENTAL TO ITEM 506.60.

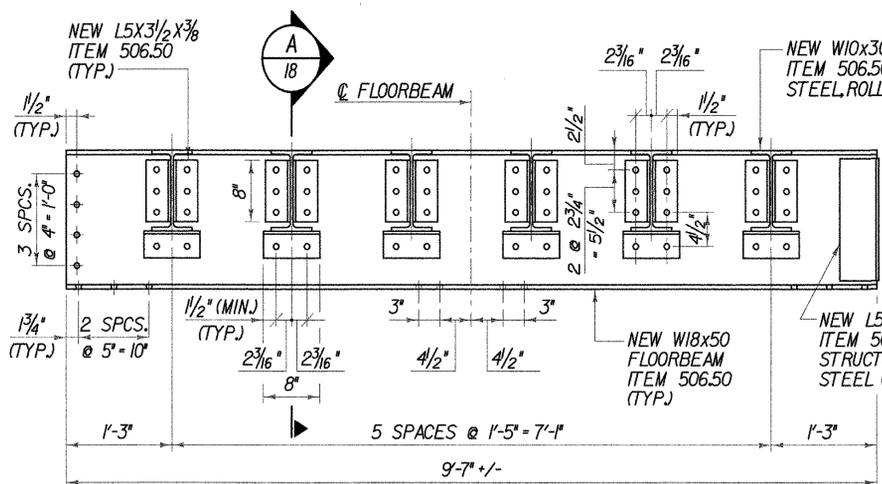
LEGEND:

- INBOARD ANGLE = ANGLE THAT FACES WALKWAY
- Δ = REMOVE RAILING CONNECTION ANGLES AND EXISTING FLOORBEAM CONNECTION ANGLES UNDER ITEM 900.645 SPECIAL PROVISION (INCORPORATING SALVAGED BRIDGE COMPONENTS)



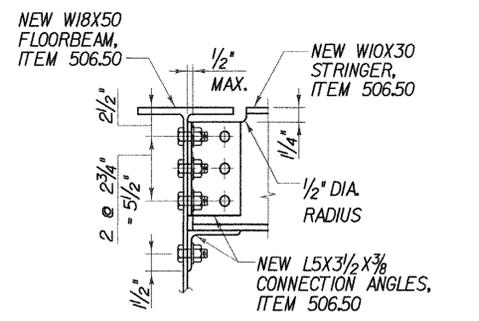
T2 TRUSS ELEVATION LOOKING NORTH

SCALE 1/4" = 1'-0"
1 0 2 4 6



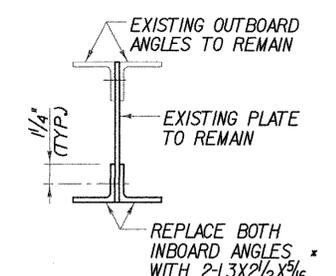
FLOORBEAM ELEVATION

SCALE 1" = 1'-0"
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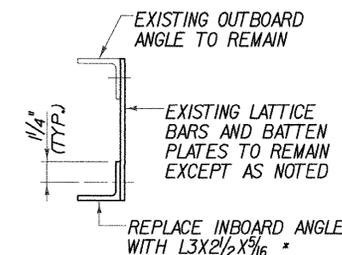


A STRINGER CONNECTION (NOT TO SCALE)

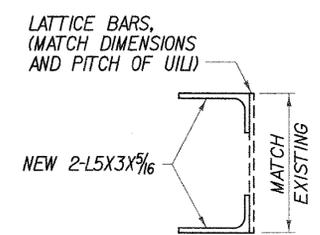
* REPLACE ONLY WHERE INDICATED IN TRUSS ELEVATIONS OR AS DIRECTED BY THE RESIDENT ENGINEER



B VERTICAL MEMBER AT U2L2, U4L4 & U6L6 (NOT TO SCALE)



C VERTICAL MEMBER AT U1L1, U3L3, U5L5 & U7L7 (NOT TO SCALE)



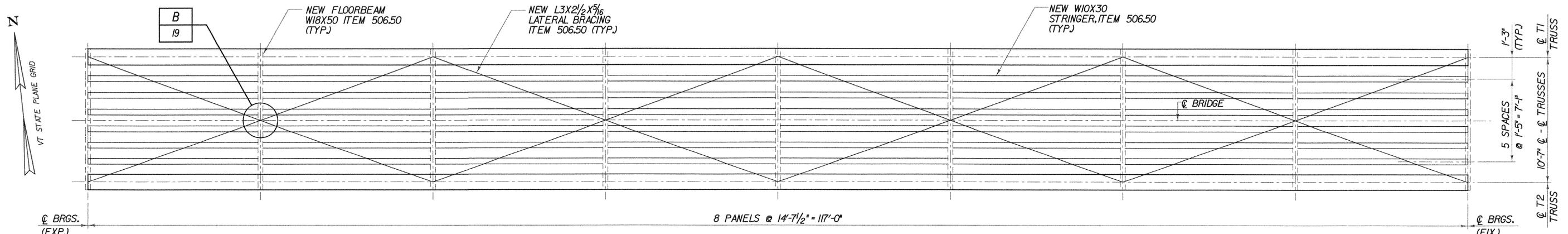
D NEW DIAGONAL MEMBER @ U3L2, U3L4, U5L4 & U5L6 (NOT TO SCALE)

TRUSS REHABILITATION

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 18 OF 26

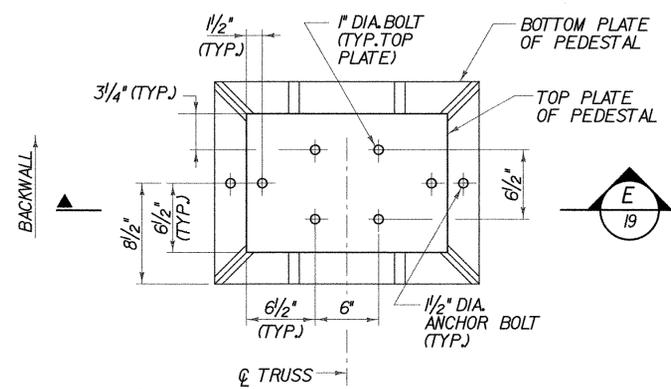


DATE/TIME = 1/9/2009 USER = 2562

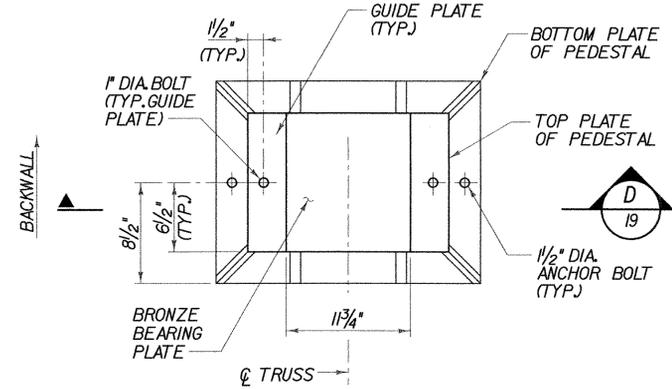


LATERAL BRACING PLAN

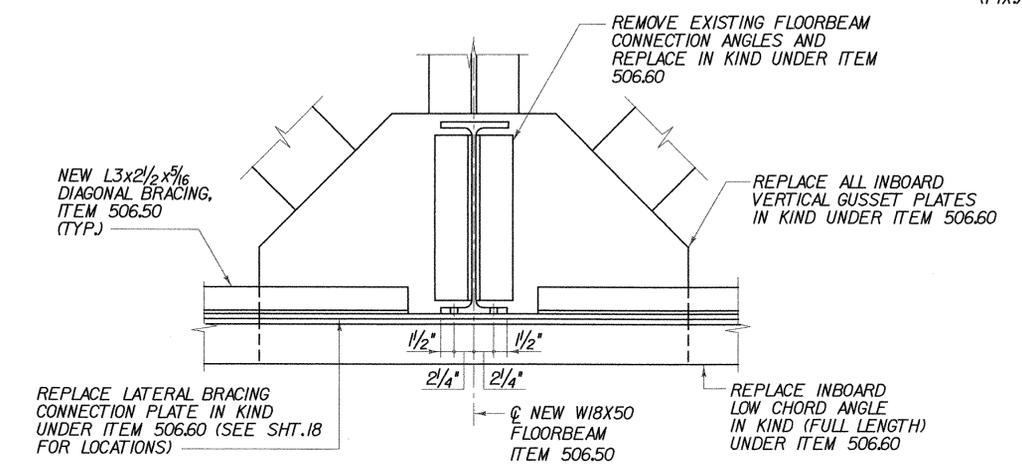
SCALE 1/4" = 1'-0"
0 2 4 6



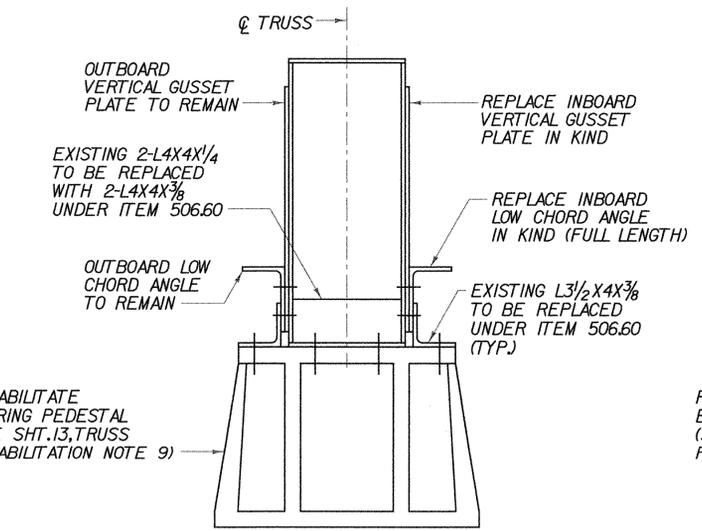
PLAN - FIXED BEARING PEDESTAL (TOP)
T1 BEARING SHOWN, T2 BEARING SIMILAR (NOT TO SCALE)



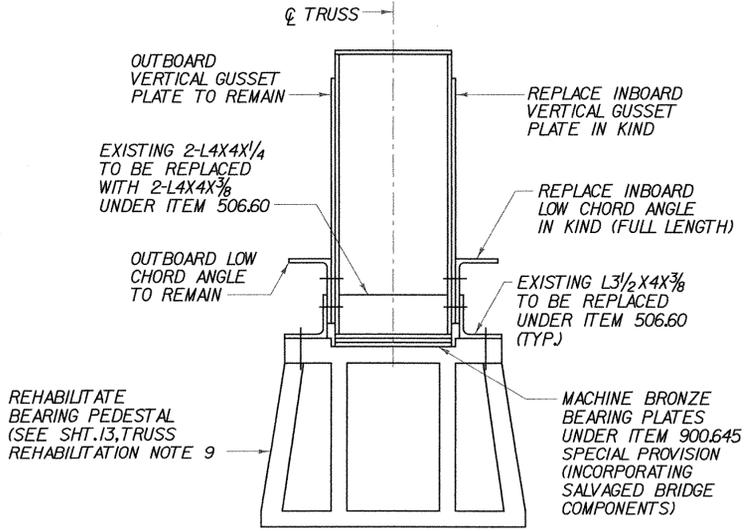
PLAN - EXPANSION BEARING PEDESTAL (TOP)
T2 BEARING SHOWN, T1 BEARING SIMILAR (NOT TO SCALE)



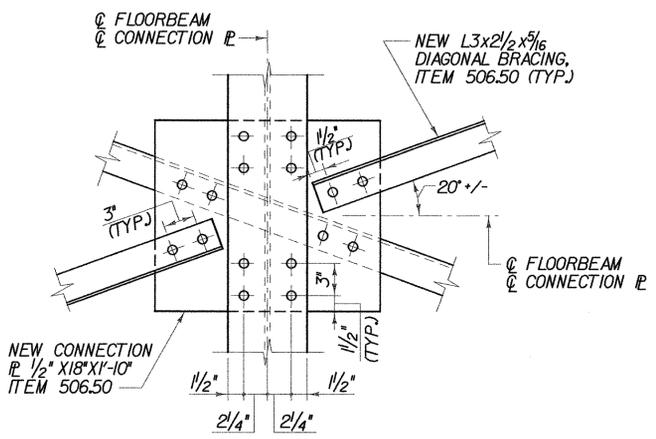
A GUSSET TO FLOORBEAM CONNECTION
18 (CONNECTION AT L2, L4 & L6 SHOWN)
(CONNECTION @ L0, L1, L3, L5, L7 & L8 SIMILAR)
(NOT TO SCALE)



E TYPICAL FIXED END
19 (NOT TO SCALE)



D TYPICAL EXPANSION END
19 (NOT TO SCALE)



B DIAGONAL BRACING CONNECTION AT MIDSPAN OF FLOORBEAM
19 (NOT TO SCALE)

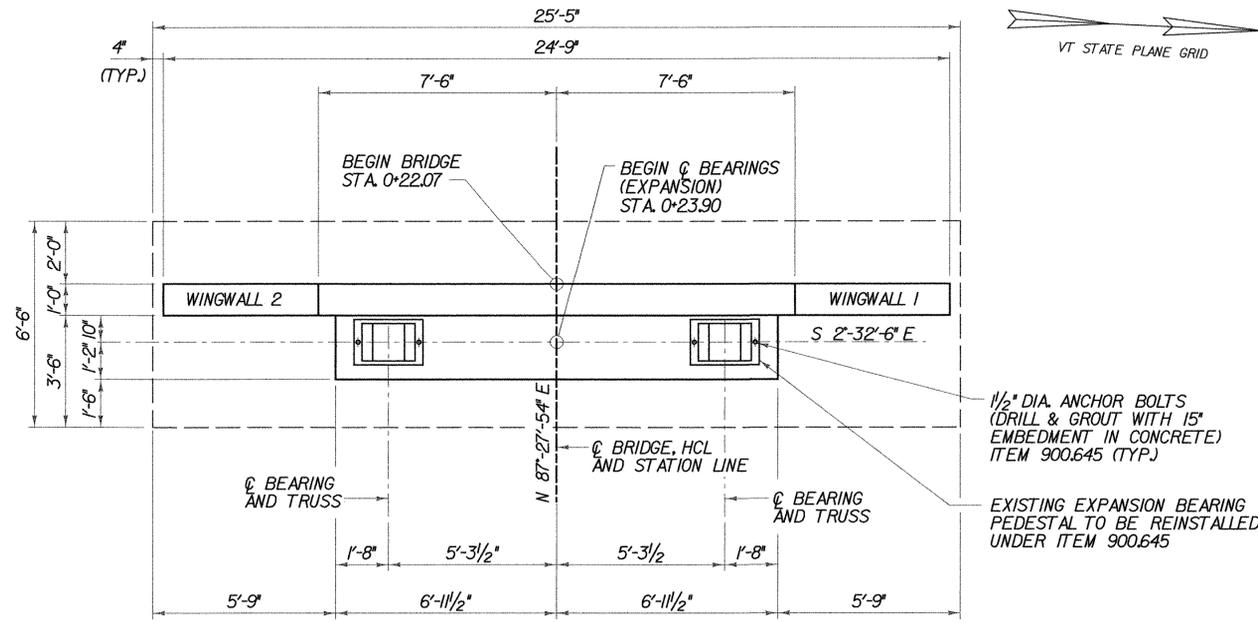
- NOTES:**
- SEE SHT.13 FOR ADDITIONAL INFORMATION REGARDING PAYMENT AND REQUIRED SUBMITTALS.
 - WHERE NEW STRUCTURAL STEEL IS NOT FULLY DETAILED IN THE PLANS, THE CONTRACTOR SHALL DETAIL THE MEMBERS TO ACCOMMODATE FIELD FIT-UP AT COMPONENTS/MEMBERS TO BE REPLACED IN KIND.

FRAMING PLAN AND DETAILS

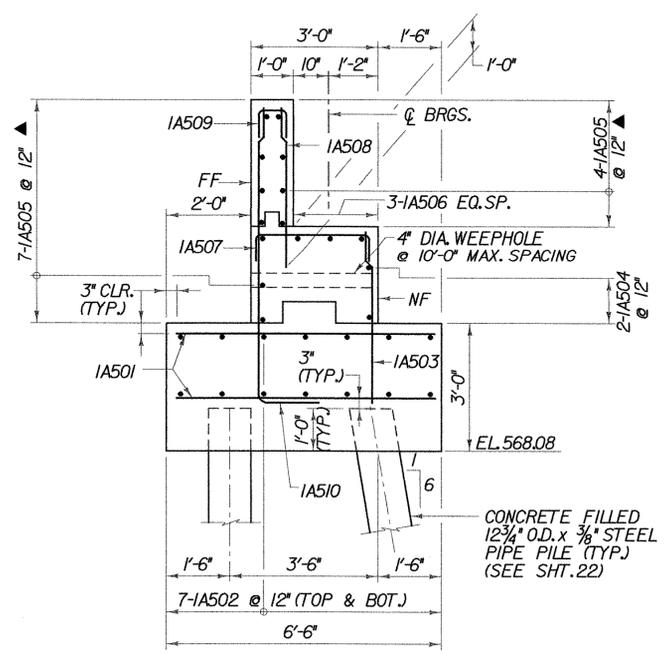
PROJECT NAME: WALLINGFORD	FILE NAME: \$FILES\$	PLOT DATE: 1/9/2009
PROJECT NUMBER: STP ST WALK(14)	PROJECT MANAGER: SUSAN SCRIBNER	DRAWN BY: W. WEATHERBY
	DESIGNED BY: L. HARDEN	CHECKED BY: P. HALSTEAD
	BRIDGE DESIGN SUPERVISOR: P. HALSTEAD	SHEET 19 OF 26



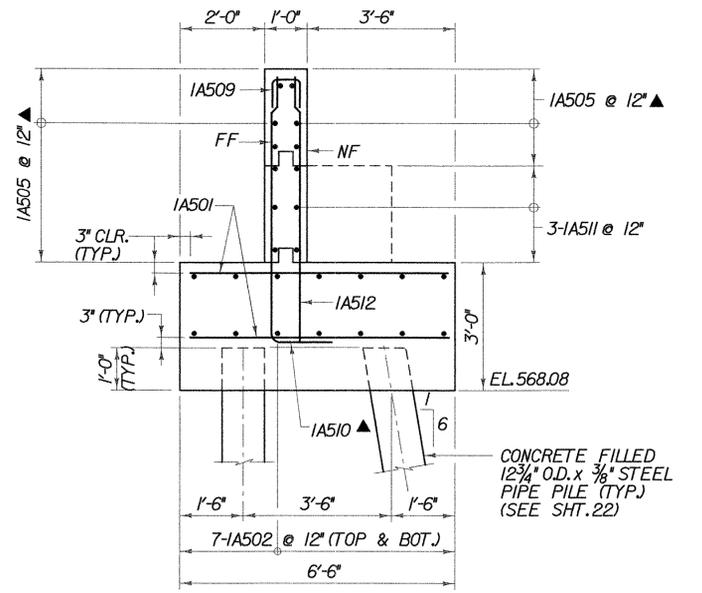
FILE NAME: \\A:\6659\mst\p\ref\mst\submissions\2021136fmgshk.dgn
 DATE/TIME: 1/9/2009
 USER: z2552



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

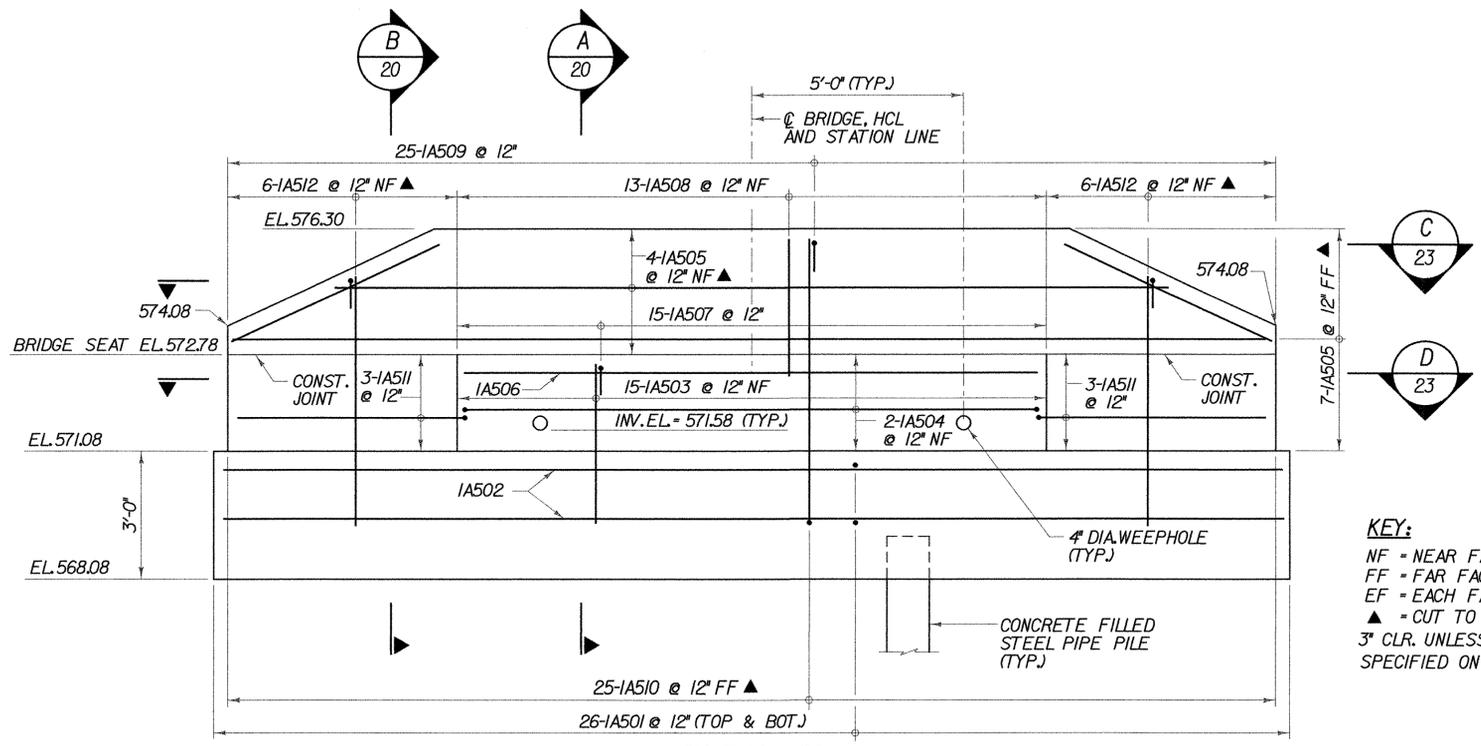


A TYPICAL ABUTMENT SECTION
20 SCALE 1/2" = 1'-0"
1 0 1 2



B TYPICAL WINGWALL SECTION
20 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

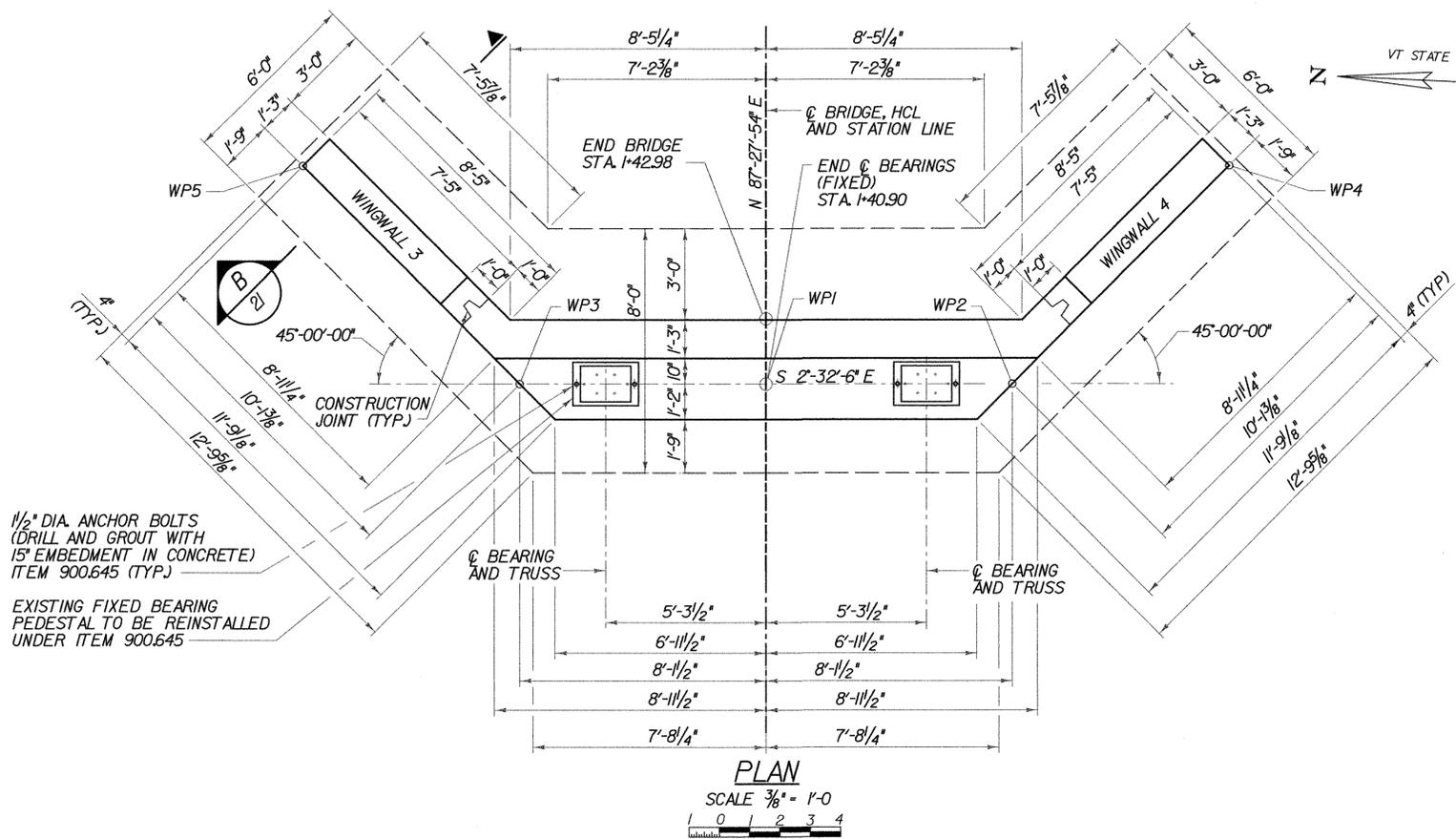
KEY:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

ABUTMENT I PLAN AND ELEVATION

PROJECT NAME: WALLINGFORD	PLOT DATE: 1/9/2009
PROJECT NUMBER: STP ST WALK(I4)	DRAWN BY: W. WEATHERBY
FILE NAME: \$FILES\$	DESIGNED BY: L. HARDEN
PROJECT MANAGER: SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR: P. HALSTEAD
CHECKED BY: P. HALSTEAD	SHEET 20 OF 26

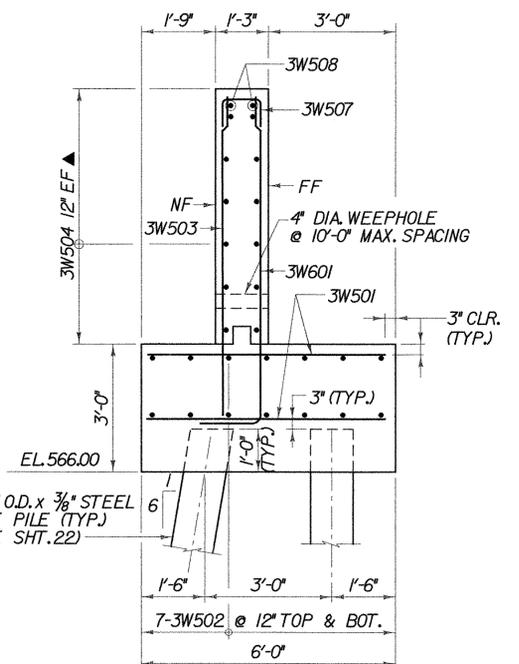
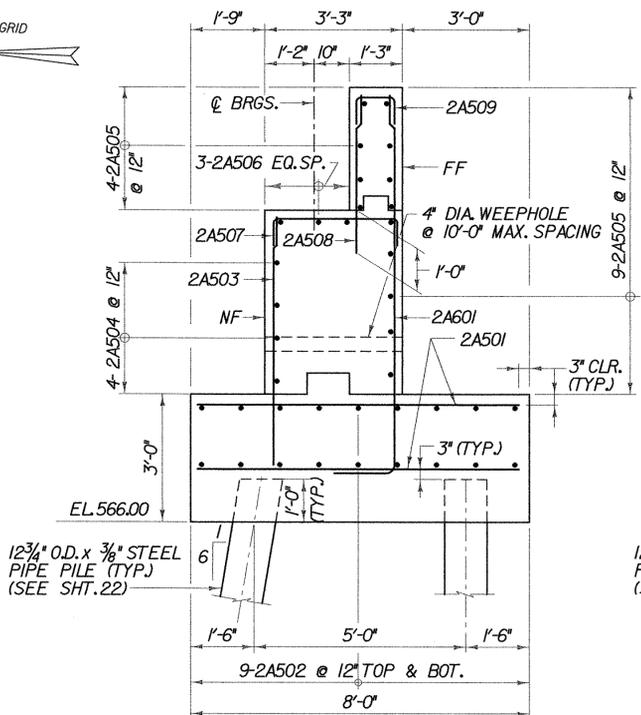


FILE NAME: s:\86659\stpn\pr\ref.mxl\submission\2021366\stpn.dgn
DATE/TIME: 1/9/2009
USER: 22552

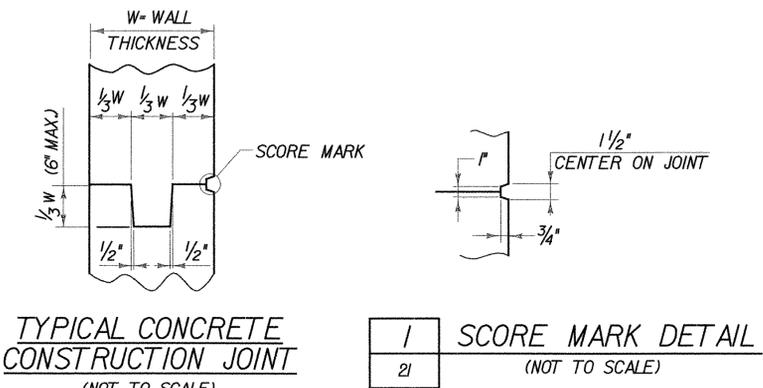
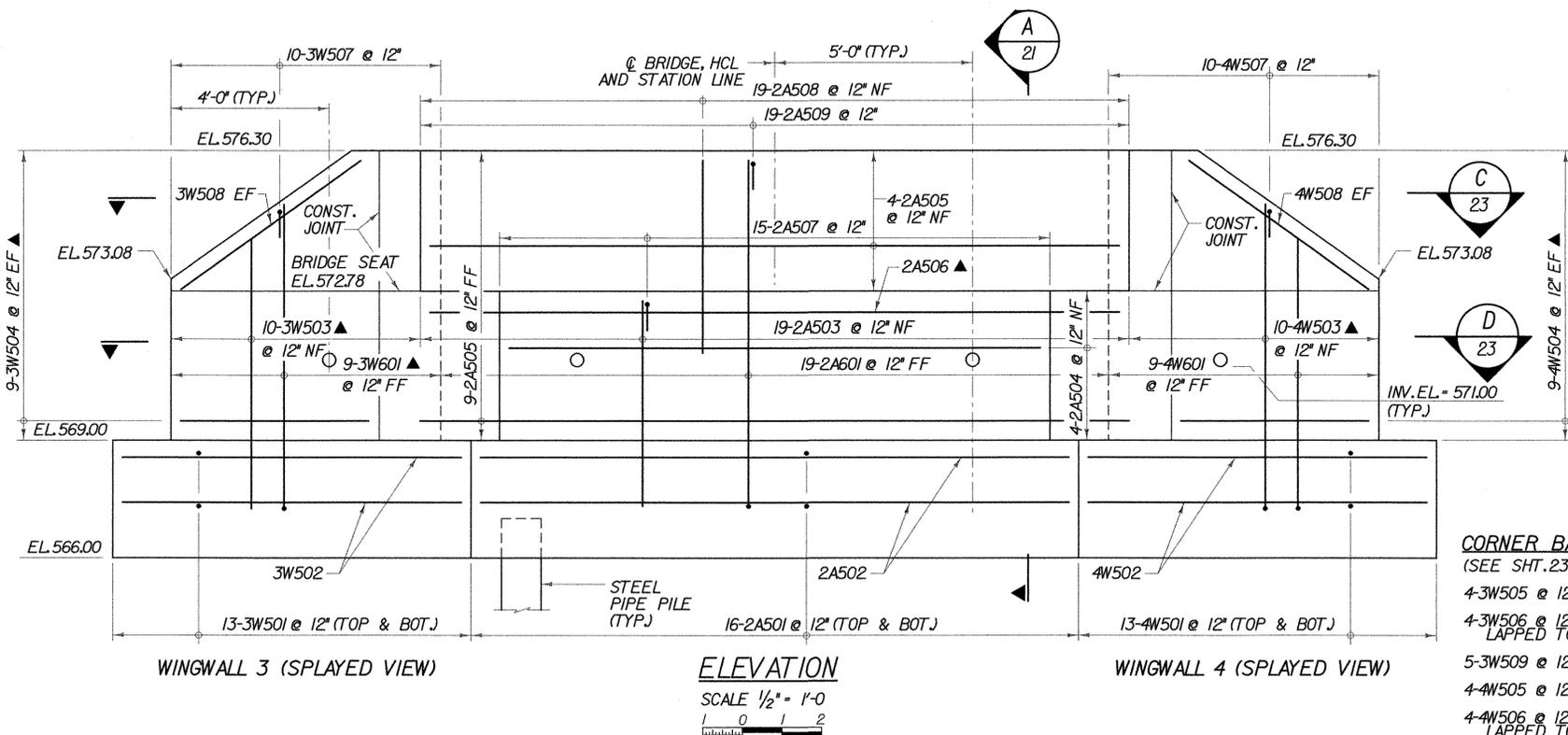


1/2" DIA. ANCHOR BOLTS
(DRILL AND GROUT WITH
15" EMBEDMENT IN CONCRETE)
ITEM 900.645 (TYP.)

EXISTING FIXED BEARING
PEDESTAL TO BE REINSTALLED
UNDER ITEM 900.645



NOTES:
1. THE 2A506 REINFORCEMENT BARS
SHALL BE PLACED TO AVOID ANCHOR
ROD PLACEMENT.



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

CORNER BARS NOT SHOWN FOR CLARITY:
(SEE SHT.23 FOR DETAILS)

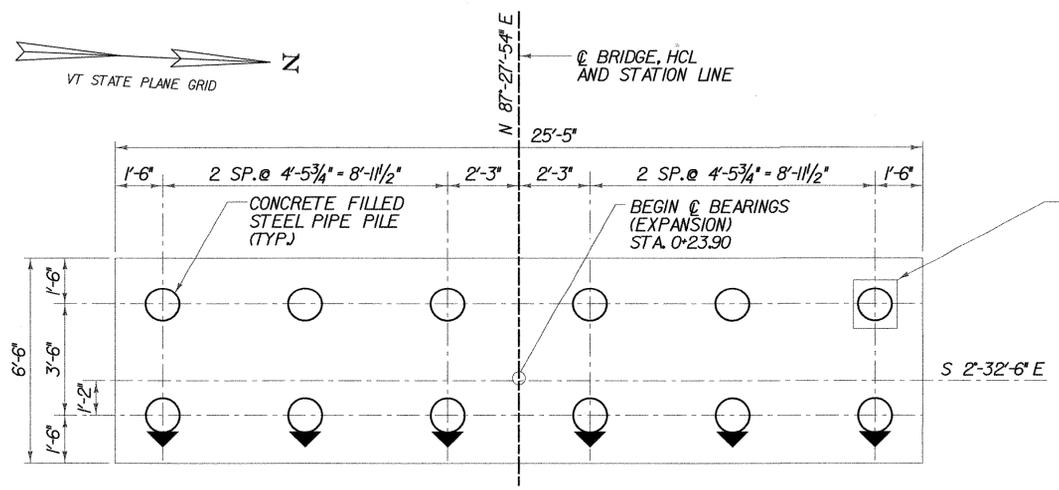
4-3W505 @ 12" LAPPED TO 2A504 & 3W504
4-3W506 @ 12" NF & 4-3W506 @ 12" FF
LAPPED TO 2A505 & 3W504
5-3W509 @ 12" FF LAPPED TO 3W504
4-4W505 @ 12" LAPPED TO 2A504 & 4W504
4-4W506 @ 12" NF & 4-4W506 @ 12" FF
LAPPED TO 2A505 & 4W504
5-4W509 @ 12" FF LAPPED TO 4W504

ABUTMENT 2 PLAN AND ELEVATION

PROJECT NAME:	WALLINGFORD	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	DRAWN BY:	W. WEATHERBY
FILE NAME:	FILES#	DESIGNED BY:	L. HARDEN
PROJECT MANAGER:	SUSAN SCRIBNER	CHECKED BY:	P. HALSTEAD
BRIDGE DESIGN SUPERVISOR:	P. HALSTEAD	SHEET	21 OF 26

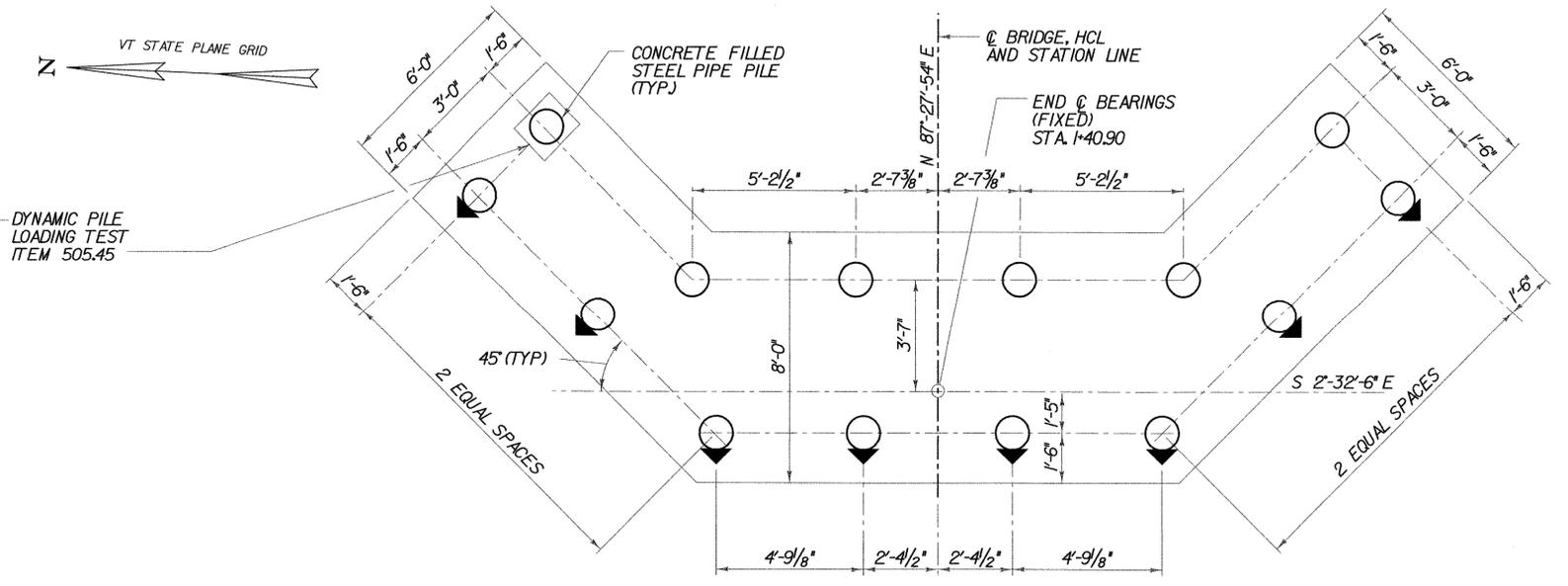


FILE NAME: s:\a\9669\meson\pr-ref.mel_submission\202136ac2\ht.dgn
DATE/TIME: 1/9/2009 1:25:52
USER: 22552



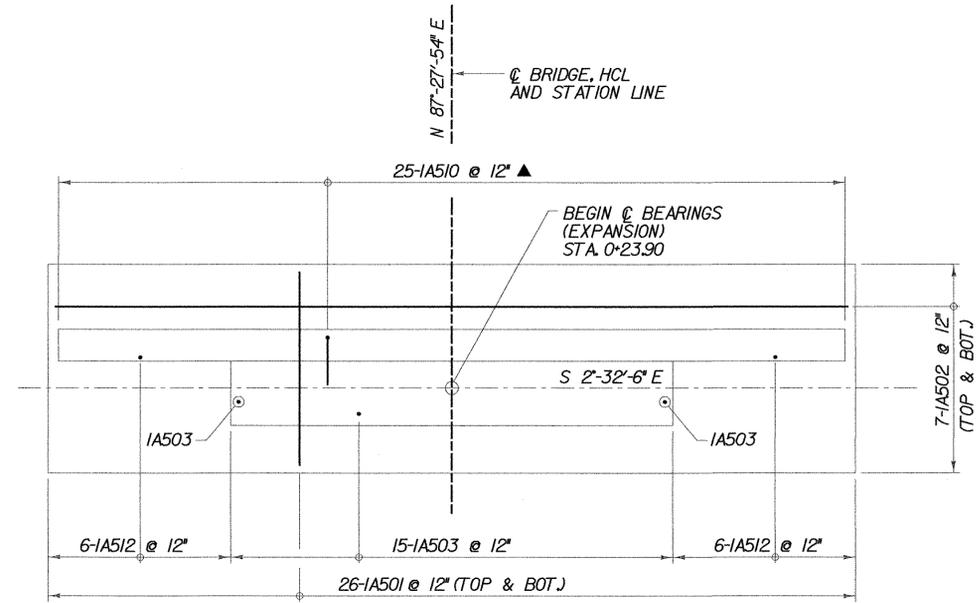
ABUTMENT 1 PILE LAYOUT

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



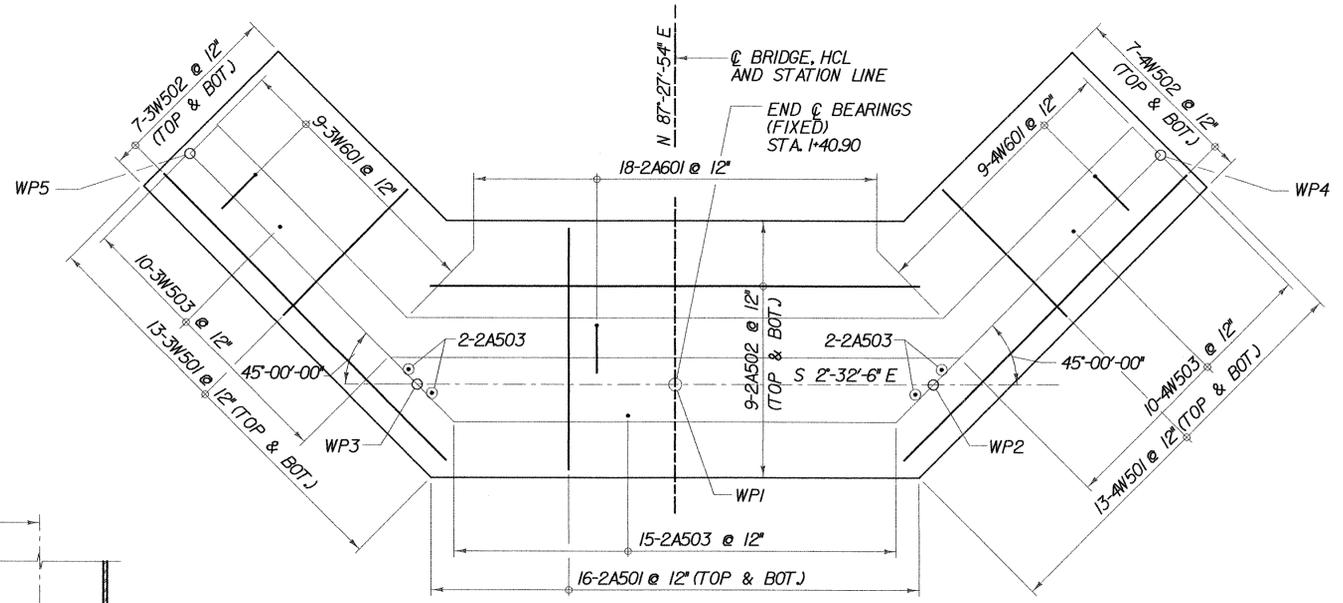
ABUTMENT 2 PILE LAYOUT

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



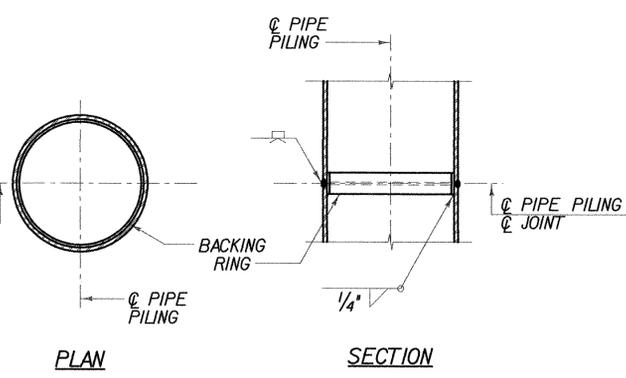
ABUTMENT 1 FOOTING REINFORCEMENT PLAN

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



ABUTMENT 2 FOOTING REINFORCEMENT PLAN

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



PIPE PILE SPLICE DETAIL

SCALE 1 1/2" = 1'-0"
1 9 6 3 0

- KEY:**
- = ITEM 900.640 SPECIAL PROVISION (STEEL PILING, CONCRETE-FILLED 12 3/4" O.D. X 3/8" PIPE)
12 3/4" O.D. X 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 3/4" O.D. X 3/8" PIPE)
12 3/4" O.D. X 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.

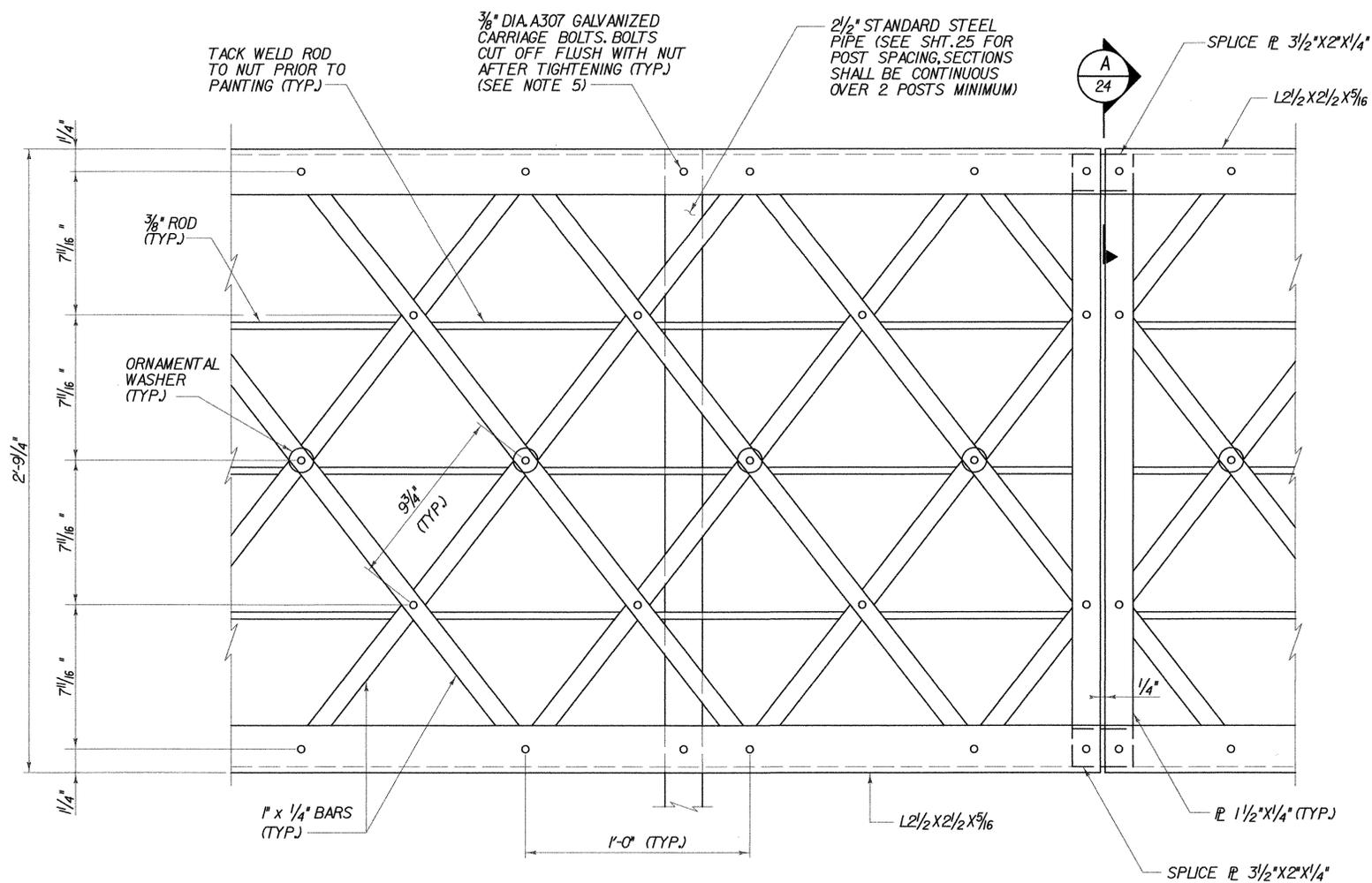
PROJECT NAME: WALLINGFORD
PROJECT NUMBER: STP ST WALK(14)

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

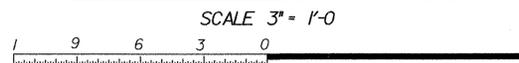
PLOT DATE: 1/9/2009
DRAWN BY: W. WEATHERBY
CHECKED BY: P. HALSTEAD
SHEET 22 OF 26



FILE NAME: \\s6639\enr\proj\enr\submissions\1021136\11a\layout.dgn
DATE/TIME: 1/9/2009 11:19:20
USER: 2552

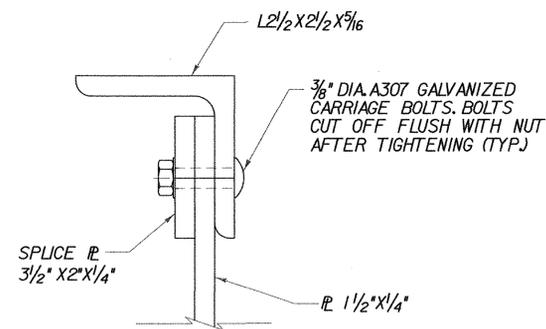


BRIDGE RAILING ELEVATION

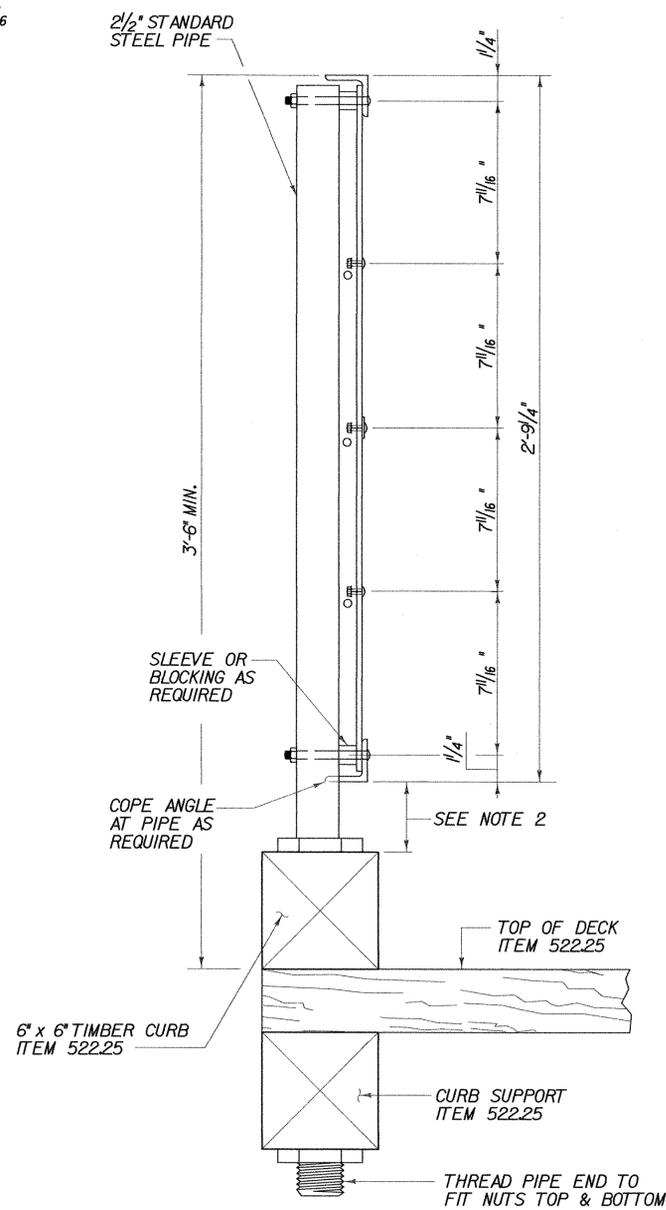


NOTES:

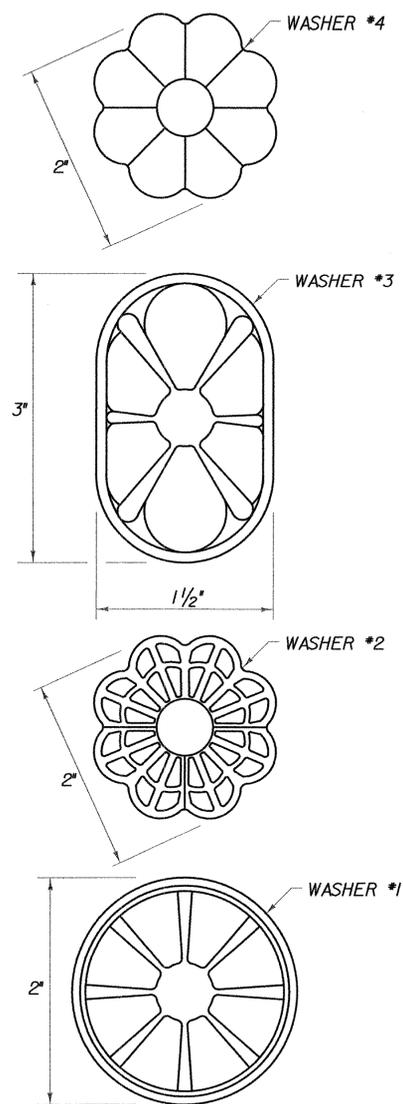
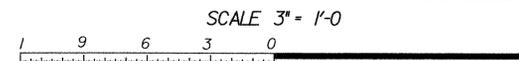
1. ALL MATERIAL TO BE AASHTO M270 GRADE 36. ALL LABOR AND MATERIALS REQUIRED FOR FABRICATION AND ERECTION OF BRIDGE RAILING SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 900.640 SPECIAL PROVISION (BRIDGE RAILING STEEL/PEDESTRIAN).
2. THE VERTICAL OPENING BELOW THE BOTTOM ANGLE SHALL NOT EXCEED 6".
3. ORNAMENTAL 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).



A RAILING CONNECTION PLATE
24 (NOT TO SCALE)



TYPICAL BRIDGE RAILING SECTION



ORNAMENTAL WASHERS FOR BRIDGE RAIL
(NOT TO SCALE)

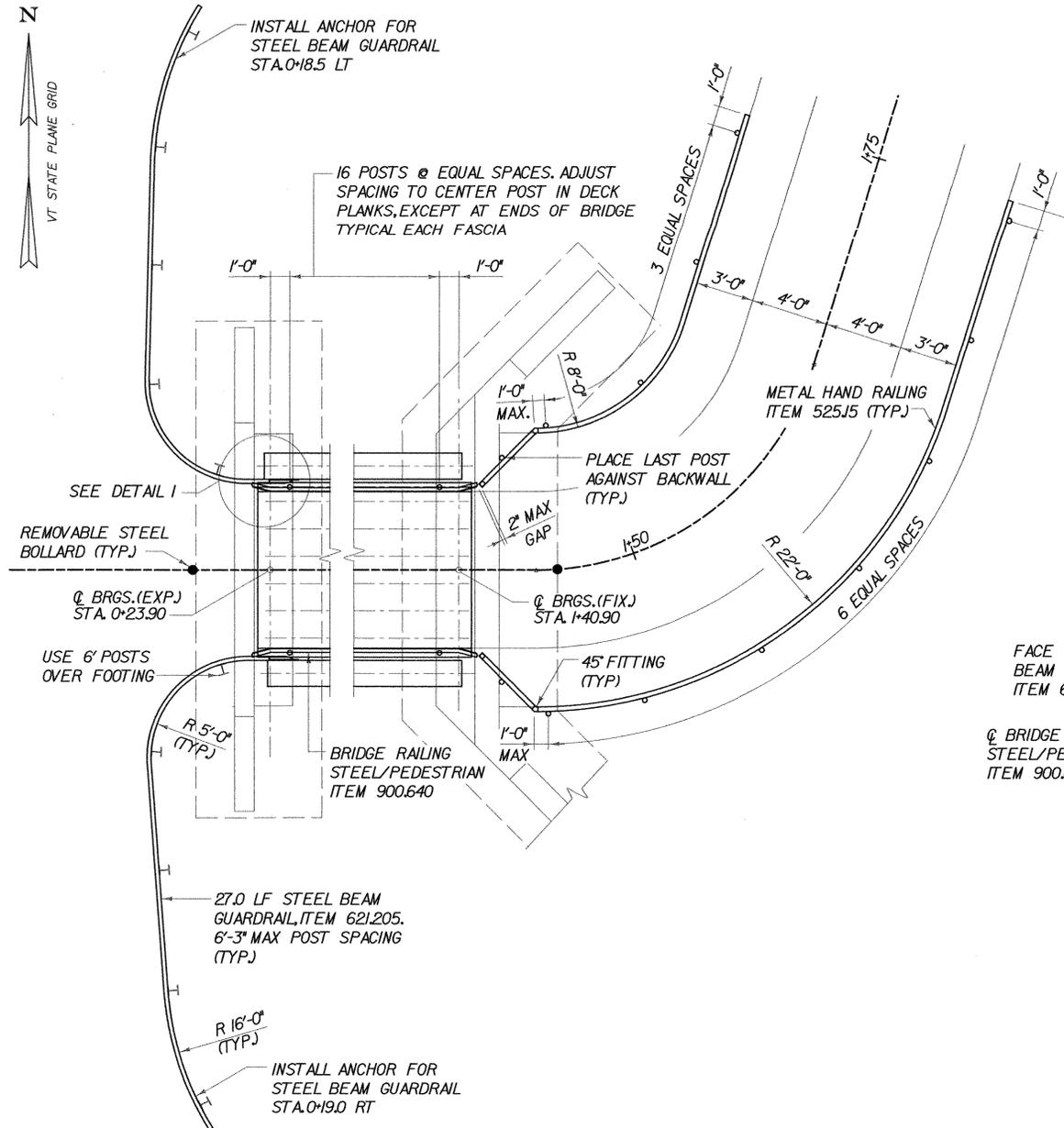
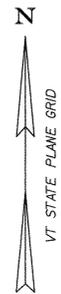
BRIDGE RAILING DETAILS

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

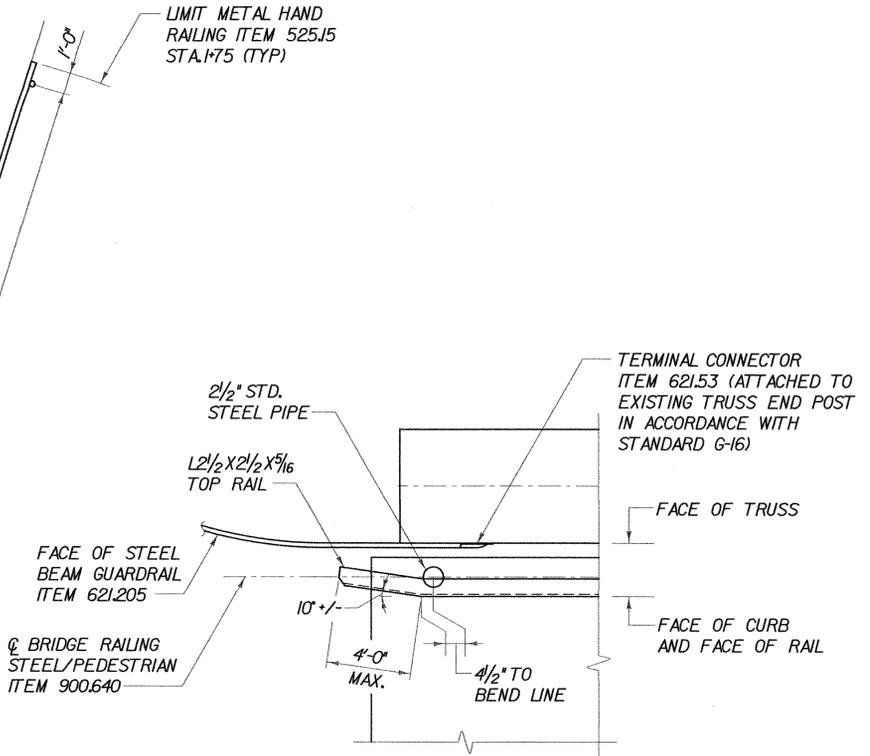
FILE NAME: \$FILES\$
PROJECT MANAGER: SUSAN SCRIBNER
DESIGNED BY: L. HARDEN
BRIDGE DESIGN SUPERVISOR: P. HALSTEAD

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

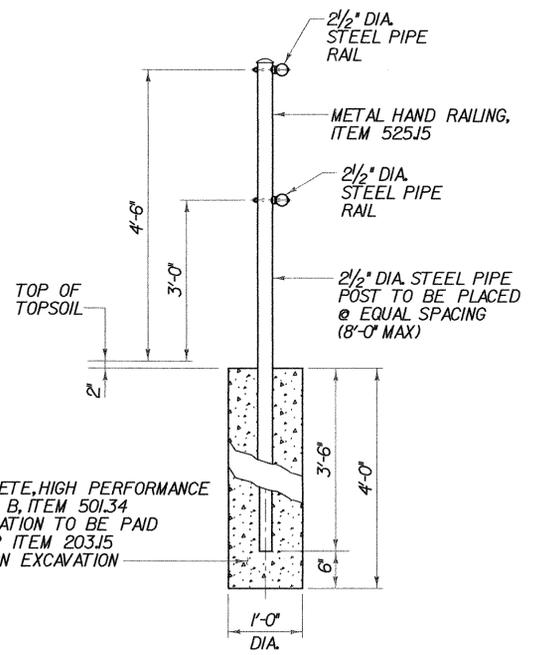




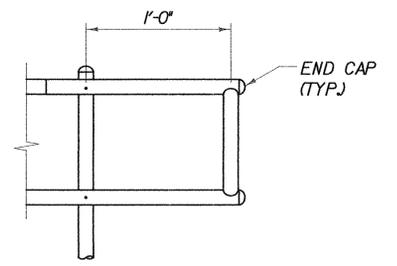
RAIL LAYOUT PLAN
SCALE 1/4" = 1'-0"
1 0 2 4 6



DETAIL I
(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	PLOT DATE:	1/9/2009
PROJECT NUMBER:	STP ST WALK(14)	DRAWN BY:	W. WEATHERBY
FILE NAME:	FILES#	DESIGNED BY:	L. HARDEN
PROJECT MANAGER:	SUSAN SCRIBNER	BRIDGE DESIGN SUPERVISOR:	P. HALSTEAD
		CHECKED BY:	P. HALSTEAD
		SHEET	25 OF 26



FILE NAME: sub\8660\msh\pref.msh\submission\2021136-ra1\shk\dgn
 DATE/TIME: 1/9/2009 11:25:52
 USER: 22552



State of Vermont
FDD/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

May 29, 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

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



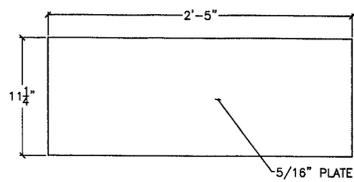
GENERAL NOTES:

- * 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.**

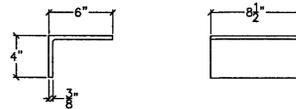
BEARING PEDESTAL:

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



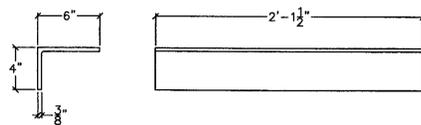
1BP01

3" = 1'-0"



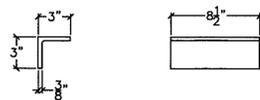
1BP03-ANGLE

3" = 1'-0"



1BP02-ANGLE

3" = 1'-0"



1BP04-ANGLE

3" = 1'-0"

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

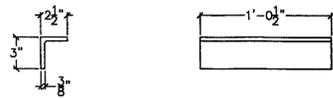
APPROVED As Noted
BY WY DATE 5/28/09

Revised Blue Construction
Part (802) 257-7383

TITLE: Wallingford Bridge Rehab
LOCATION: Wallingford, VT
OWNER: Tru
DRAWING: Truss Type 1 General Notes & Drawings
DRAWN BY: JED JOB CONTACT: Erick Foster State of VT
CHECKED BY: JED/AD DATE: 4.30.09

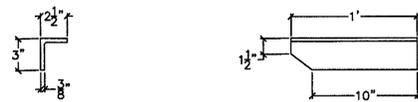
DRAWING NO. T-1
SHEET NO. 1 of 17

BEARING PEDESTAL:



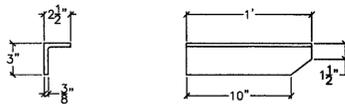
1BP05-ANGLE

3" = 1'-0"



1BP06R-ANGLE

3" = 1'-0"



1BP06R-ANGLE

3" = 1'-0"

DIMENSIONS TBD

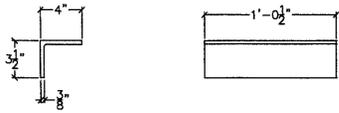
1BP07-PLATE

3" = 1'-0"

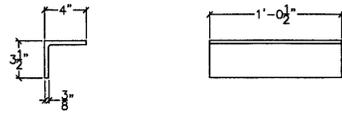
RECEIVED
 OK'D BY CHM OK'D BY _____
 MAY 1 1 2011
 R. U.S. APPROVED
 BY WJ DATE 5/1/11

Project: Wallingford Bridge Rehab Location: Wallingford, VT Drawing Title: Drawings Truss Type 1 Drawings Drawn By: JED Checked By: JED/AD Job Contact: Erick Foster State of VT Date: 4/30/09		Project No.: Drawing No.: T-1 Sheet No.: 2 of 17
--	--	--

BEARING PEDESTAL:



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

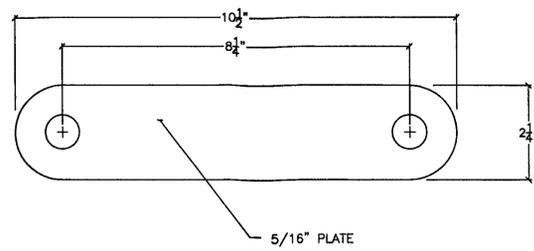


1BA02-ANGLE
3" = 1'-0"

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 R. C. ... APPROVED ✓
 BY WJ DATE 5/11/09

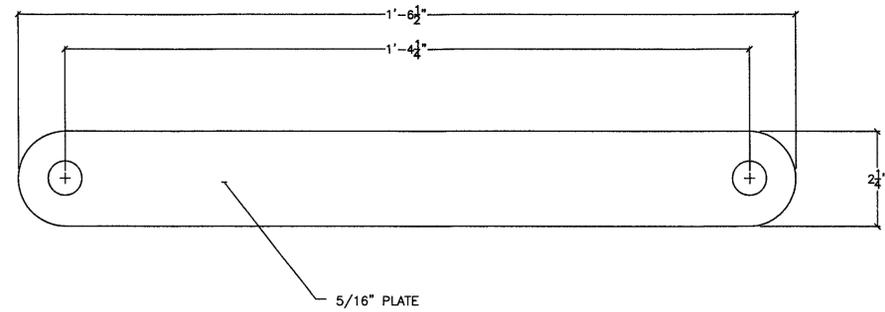
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u> DRAWING TITLE: <u>Drawings Truss Type 1: Drawings</u> DRAWN BY: <u>JED</u> JOB CONTACT: <u>Erick Foster State of VT</u> CHECKED BY: <u>JED/AD</u> DATE: <u>4 30 09</u>	Renewal Bros Construction 1000 ... (802) 257-7383
DRAWING NO.: <u>T-1</u>	
SHEET NO.: <u>3 OF 17</u>	

LATTICE:



1LP01-PLATE

1'-0" = 1'-0"



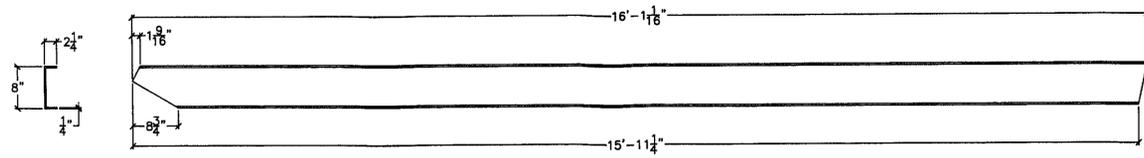
1LP02-PLATE

1'-0" = 1'-0"

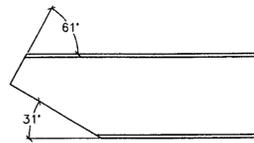
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WJ / SJS APPROVED
DATE 5/11/09

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

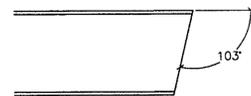
UPPER CHORD:



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



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

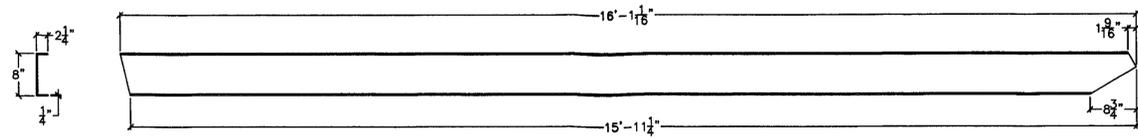


1LOU1-END DETAIL
3" = 1'-0"

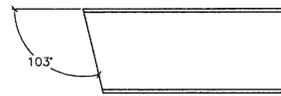
RECEIVED
MAY 11 2009
BY *WJ* DATE *5/11/09*

Pennud Inc. Construction 1000 W. Main St. (802) 257-7283	
FILE: 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	SHEET NO. T-1 5 OF 17

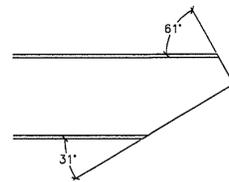
UPPER CHORD:



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



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



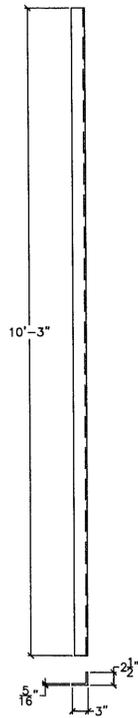
1L8U7-END DETAIL
3" = 1'-0"

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 OK'D BY: CLM OK'D BY: _____
 MAY 11 2009
 BY: WJ APPROVED: [Signature]
 DATE: 5/12/09

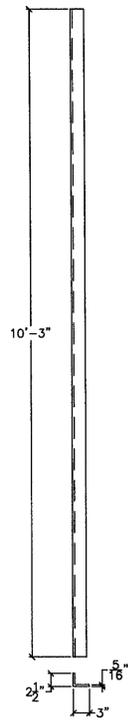
Project: <u>Wallingford Bridge Rehab</u> Location: <u>Wallingford, VT</u> Drawing Title: <u>Drawings Truss Type 1 Drawings</u> Drawn By: <u>JED</u> Job Contact: <u>Ernst Foster State of VT</u> Checked By: <u>ED/AD</u> Date: <u>4 30 09</u>	
Title: <u>Wallingford Bridge Rehab</u> Location: <u>Wallingford, VT</u> Drawing Title: <u>Drawings Truss Type 1 Drawings</u> Drawn By: <u>JED</u> Job Contact: <u>Ernst Foster State of VT</u> Checked By: <u>ED/AD</u> Date: <u>4 30 09</u>	Drawing No.: <u>T-1</u> Sheet No.: <u>6 of 17</u>

Ernst Foster Construction
 100 Industrial Way, VT 05251
 (802) 257-7383

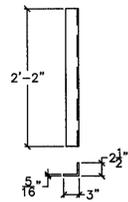
UPRIGHT MEMBERS:



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



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

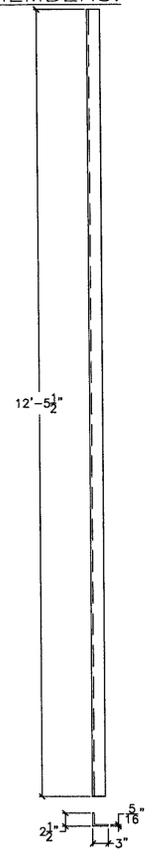


1U3L3L-ANGLE
1-1/2" = 1'-0"

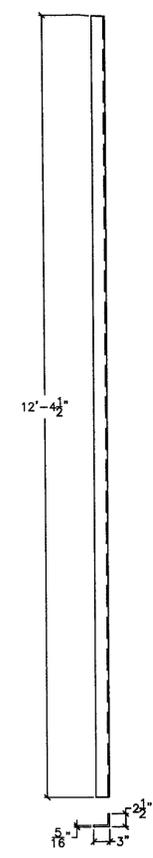
RECEIVED
 OK'D BY CWA OK'D BY _____
 MAY 1 1 2009
 BY WY SJ DATE 5/1/09

Renew Bros. Construction 1000 Main Street (802) 257-7385	
FILE LOCATION DRAWING TITLE DRAWN BY CHECKED BY	Wallingford Bridge Rehab Wallingford, VT Drawings Truss Type 1 Drawings JED ED/AD
JOB CONTACT DATE	Erick Foster State of VT 4 30 09
DRAWING NO.	T-1
SHEET NO.	7 of 17

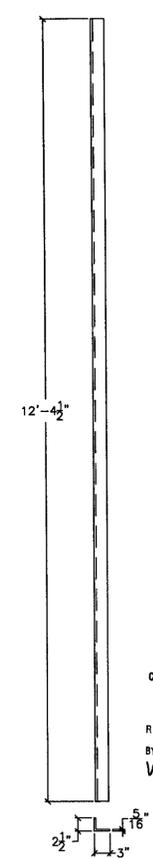
UPRIGHT MEMBERS:



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



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

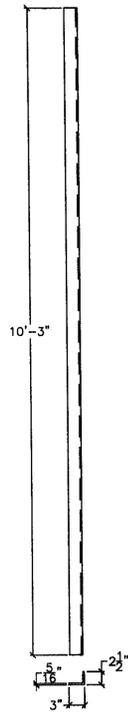


1U4L4R-ANGLE
1-1/2" = 1'-0"

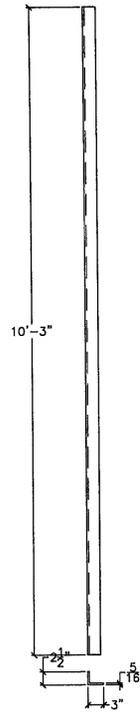
RECEIVED
 CK'D BY: CHA OK'D BY: _____
 MAY 1 12:11
 BY: WJ DATE: 5/1/09

Rinaldi Bros. Construction 1000 W. Main St. (802) 257-7383	
FILE LOCATION DRAWING TITLE DRAWN BY: <u>LED</u> CHECKED BY: <u>ED/AD</u>	Wallingford Bridge Rehab Wallingford, VT Drawings Truss Type 1 Drawings JOB CONTACT: <u>Erick Foster State of VT</u> DATE: <u>4 30 09</u>
DRAWING NO.	T-1
SHEET NO.	8 of 17

UPRIGHT MEMBERS:



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

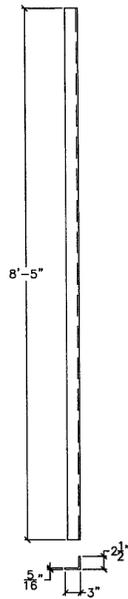


1U6L6R-ANGLE
1-1/2" = 1'-0"

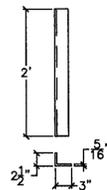
RECEIVED
 CK'D BY CHB OK'D BY _____
 MAY 11 2009
 BY WJY DATE 5/19/09

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		Renewal Bros. Construction 1000 State Street (802) 257-7383
DRAWING NO.: T-1		
SHEET NO.: 9 of 17		

UPRIGHT MEMBERS:



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

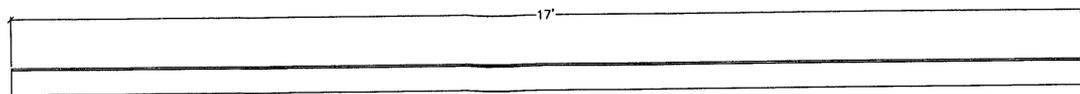
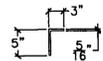


1U7L7R-ANGLE
1-1/2" = 1'-0"

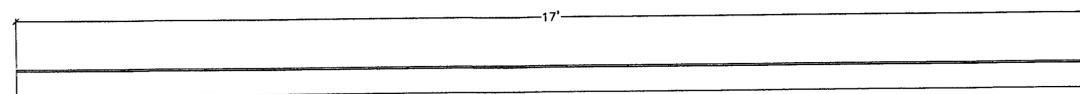
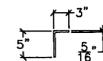
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 OK'D BY CWA OK'D BY _____
 MAY 11 2009
 R BY WJ/SJ APPROVED BY _____
 DATE 5/11/09

Revised Erosion Construction Permitting Department (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

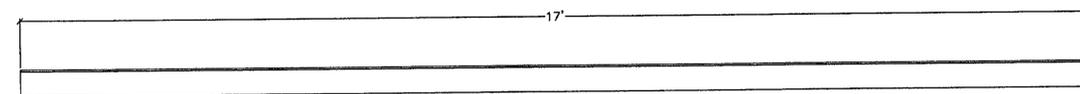
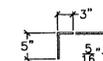
UPRIGHT MEMBERS:



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



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

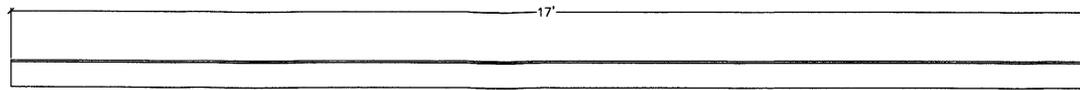
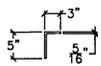


1DM03-ANGLE
1-1/2" = 1'-0"

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 MAY 11 2009
 BY: WY Sp APPROVED: _____
 DATE: 5/11/09

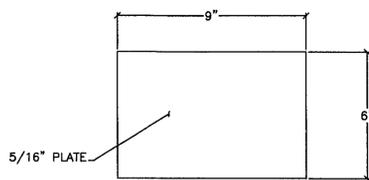
Revised Plus Construction For Bridge and Heavy VT 0534 (802) 257-7563	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING NO.: <u>T-1</u>
DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u> DRAWN BY: <u>JED</u> JOB CONTRACT: <u>Enck Foster State of VT</u> CHECKED BY: <u>SED/AD</u> DATE: <u>4 30 09</u>	SHEET NO.: <u>11 of 17</u>

UPRIGHT MEMBERS:



1DM04-ANGLE

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



1DM05-PLATE

3" = 1'-0"

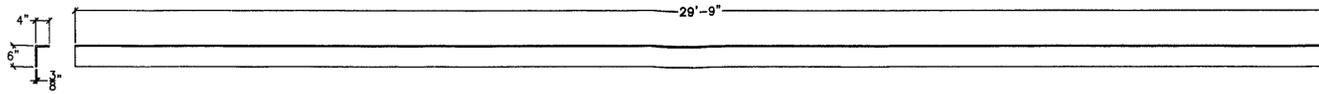
- plates similar for U3C2, U3C4, U5C4 and U5C6

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 OK'D BY CH OK'D BY _____

MAY 11 2009
 BY WJ DATE 5/4/09

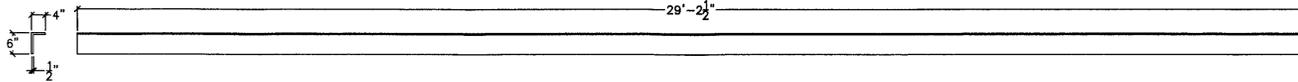
Renew Bros. Construction 1000 Highway 100 (802) 257-7285	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 1. Drawings DRAWN BY: JED CHECKED BY: JED/AD
JOB CONTACT: Erick Foster State of VT DATE: 4.30.09	DRAWING NO.: T-1 SHEET NO.: 12 of 17

BOTTOM CHORD:



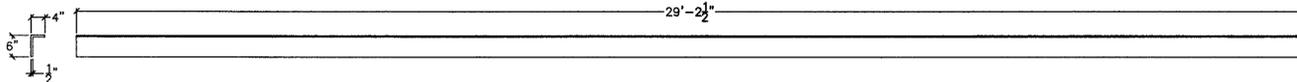
1L2L4A-ANGLE

1" = 1'-0"



1L2L4A-ANGLE

1" = 1'-0"



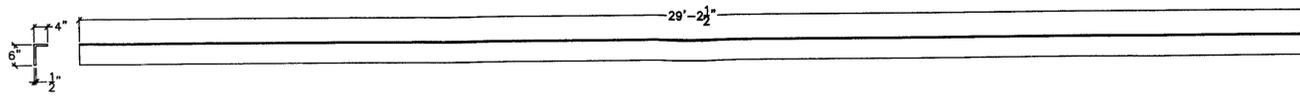
1L2L4B-ANGLE

1" = 1'-0"

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MAY 11 2009
BY WJ DATE 5/20/09

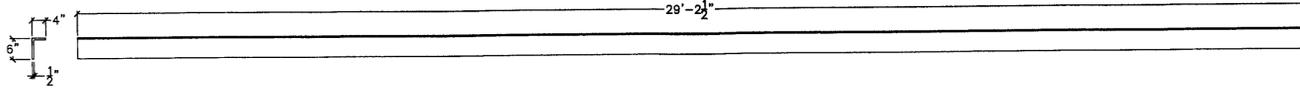
PREPARED BY: <u>Construction</u> REVISION: <u>(802) 257-7353</u>
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>
DRAWING TITLE: <u>Drawings Truss Type 1 Drawings</u>
DRAWN BY: <u>JED</u> JOB CONTACT: <u>Erick Foster State of VT</u>
CHECKED BY: <u>JED/AD</u> DATE: <u>4 30 09</u>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

BOTTOM CHORD:



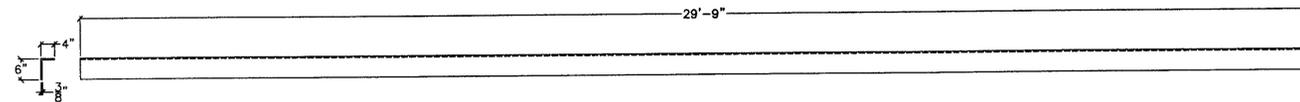
1L4L6A-ANGLE

1" = 1'-0"



1L4L6B-ANGLE

1" = 1'-0"



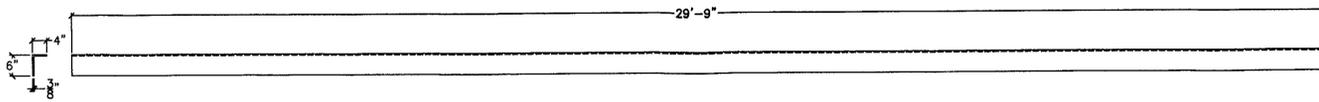
1L6L8A-ANGLE

1" = 1'-0"

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

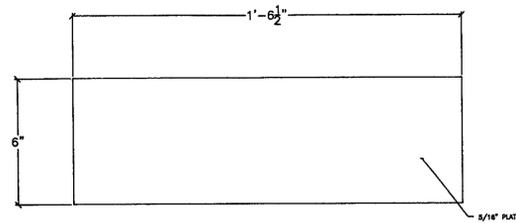
Revised Elec. Construction For Bridge Rep. Work, VT 02504 (802) 257-7583	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 1 - Drawings DRAWN BY: JED JOB CONTACT: Erik Foster State of VT CHECKED BY: JED/AD DATE: 4 30 09
DRAWING NO.	T-1
SHEET NO.	14 OF 17

BOTTOM CHORD:



1L6L8B-ANGLE

1" = 1'-0"



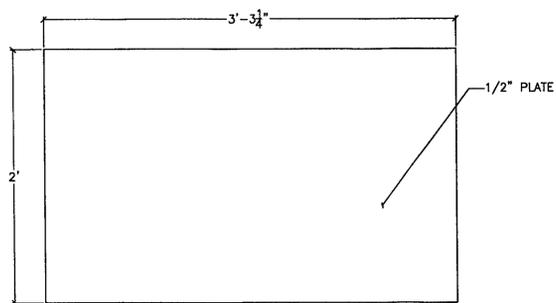
1BC01-PLATE

3" = 1'-0"

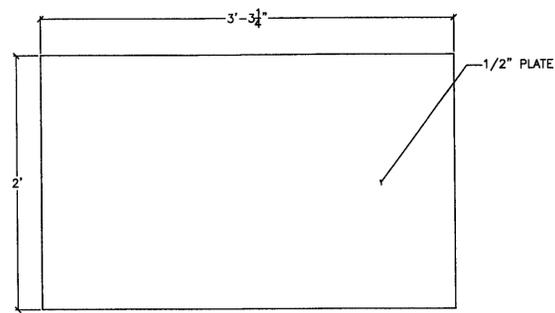
RECEIVED
OK'D BY CWA OK'D BY _____
MAY 11 2009
BY WJg DATE 5/11/09

Renold Price Construction For Blagden Road, Winoona, VT 05554 (802) 257-7383	
PROJECT TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 1 Drawings
DRAWN BY	sed
CHECKED BY	ED/AD
JOB CONTACT	Erick Foster State of VT
DATE	4 30 09
DRAWING NO.	T-1
SHEET NO.	15 of 17

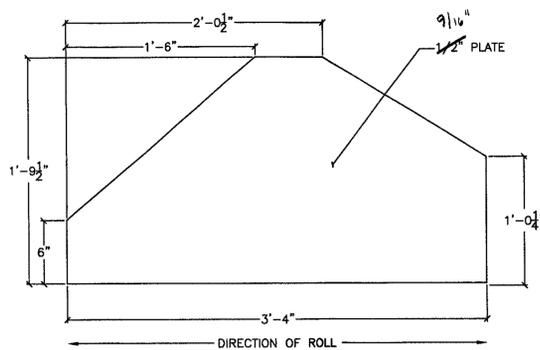
GUSSET PLATES:



1GP01
 3" = 1'-0"



1GP02
 3" = 1'-0"



1GP03
 3" = 1'-0"

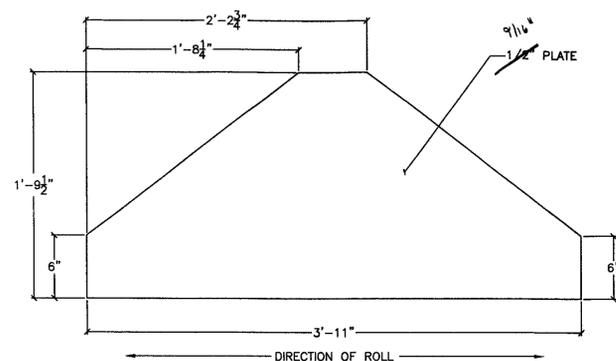
RECEIVED
 OK'D BY CHA OK'D BY _____

MAY 11 2009
 BY WJ DATE 5/11/09

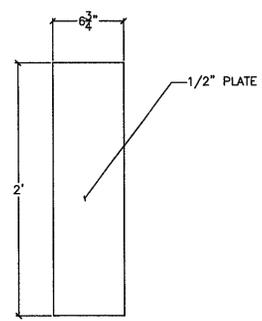
Project: Wallingford Bridge Rehab Location: Wallingford, VT	
DRAWING TITLE: Drawings Truss Type 1 Drawings DRAWN BY: JED CHECKED BY: ED/AD	JOB CONTACT: Erick Foster State of VT DATE: 4 30 09
DRAWING NO.: T-1	SHEET NO.: 16 OF 17

Project: **Wallingford Bridge Rehab**
 Location: **Wallingford, VT**
 Phone: **(802) 257-7383**

GUSSET PLATES:



1GP04
3" = 1'-0"



1GP05
3" = 1'-0"

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

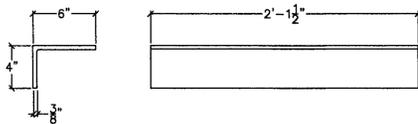
Revised Plus Construction Fort Belknap Road, Helena, MT 59604 (406) 257-7363	
TITLE: <u>Wallingford Bridge Rehab</u> LOCATION: <u>Wallingford, VT</u>	DRAWING NO.: <u>T-1</u>
DRAWN BY: <u>JED</u> CHECKED BY: <u>JED/AD</u>	SHEET NO.: <u>17 OF 17</u>
JOB CONTACT: <u>Erick Foster</u> STATE OF VT DATE: <u>4 30 09</u>	DRAWING TYPE: <u>Drawings</u>

GENERAL NOTES:

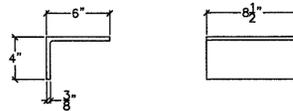
- * ALL MEASUREMENTS TO BE VERIFIED BEFORE FABRICATION OF INDIVIDUAL MEMBERS BEGINS
- * ALL HOLES DRILLED IN NEW FABRICATED STEEL, TO MATCH EXISTING STEEL MEMBERS
- * ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M-270 GRADE 50
- * UNLESS OTHERWISE NOTED, ALL HOLES SHALL BE DRILLED TO $\frac{1}{8}$ " DIA
- * DIMENSIONS LESS THAN 25'-0" +/- $\frac{1}{16}$ "
- * 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.

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.



2BP01-ANGLE
3" = 1'-0"



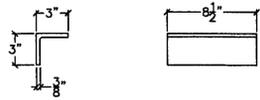
2BP03-ANGLE
3" = 1'-0"

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

RECEIVED
 OK'D BY CWA OK'D BY _____
 MAY 11 2009
 RESUBMIT _____ APPROVED A. N. W.
 BY WY DATE 5/14/09

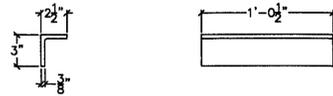
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: General Notes & Drawings DRAWN BY: JED CHECKED BY: JED/JAD JOB CONTACT: Erick Foster State of VT DATE: 4 30 09		Renaud Bros Construction Performance, Vermont, VT 05504 (802) 251-7300
SHEET NO. T-2	SHEET NO. 1 of 18	

BEARING PEDESTAL CONT.:



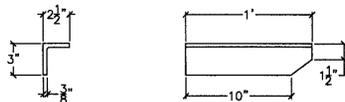
2BP04-ANGLE

3" = 1'-0"



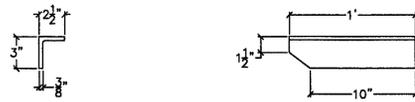
2BP05-ANGLE

3" = 1'-0"



2BP06R-ANGLE

3" = 1'-0"



2BP06L-ANGLE

3" = 1'-0"

RECEIVED

OK'D BY C.H.A. OK'D BY _____

MAY 11 2009

R. SUEWIT APPROVED As Noted

BY WJ DATE 5/11/09

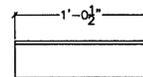
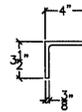
<p style="font-size: small;">Pinned Base Construction Permit (802) 257-7353</p>	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: JED JOB CONTACT: Erik Foster State of VT CHECKED BY: JED/AD DATE: 4.30.09	
DRAWING NO.: SHEET NO.: T-2	
2 OF 18	

BEARING PEDESTAL CONT.:

TBD WHEN REMOVED
DWG. SUBMITTED FOR
APPROVAL

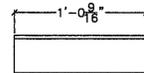
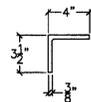
2BP07-PLATE

3" = 1'-0"



2BA01-ANGLE

3" = 1'-0"



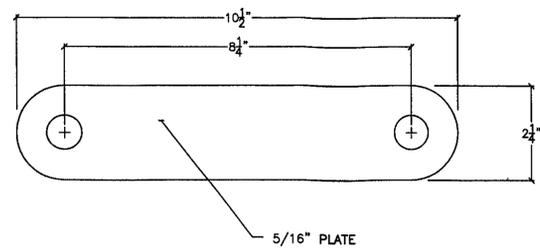
2BA02-ANGLE

3" = 1'-0"

RECEIVED
 CK'D BY CHS OK'D BY _____
 MAY 11 2009
 R-SUE:WIT APPROVED As Mth
 BY SY DATE 5/11/09
WY

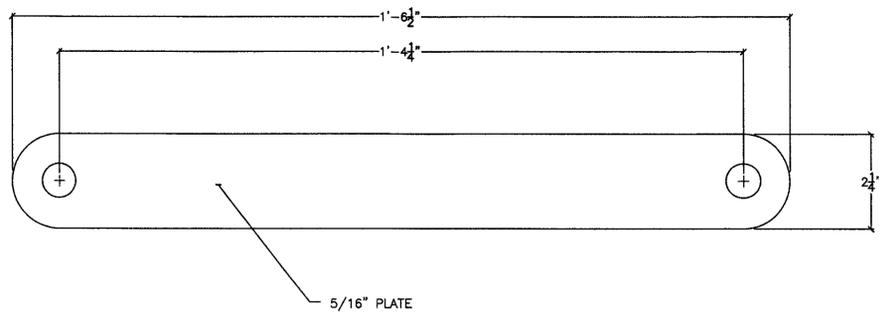
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: LED JOB CONTACT: Erick Foster State of VT CHECKED BY: ED/AD DATE: 4-30-09	Renewal Bros. Construction 1000 Main Street Wallingford, VT 05491 (802) 257-1282
DRAWING NO.	T-2
SHEET NO.	3 of 18

LATTICE:



2LP01-PLATE

3" = 1'-0"



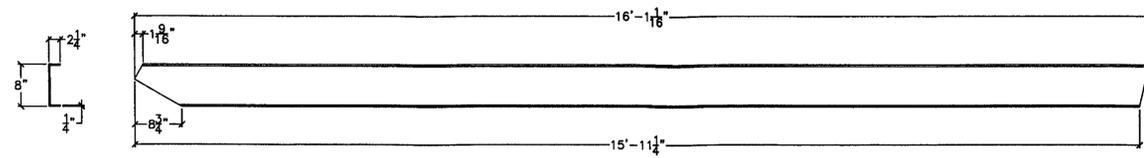
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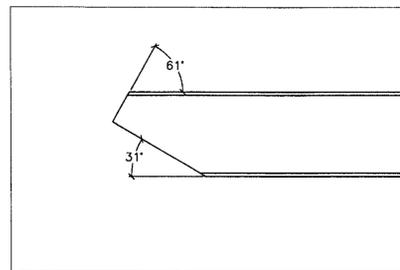
RECEIVED
 CKD BY CH OKD BY _____
 MAY 11 2009
 R SUBMITTED BY WY APPROVED As Noted
 DATE 5/11/09

Prepared By: Construction (802) 257-7383	
TITLE Wallingford Bridge Rehab Wallingford, VT	DRAWING NO. T-2
DRAWING TITLE Drawings Truss Type 2: Drawings	SHEET NO. 4 OF 18
DRAWN BY: JED CHECKED BY: ED/AD	JOB CONTACT: Erik Foster State of VT DATE: 4 30 09

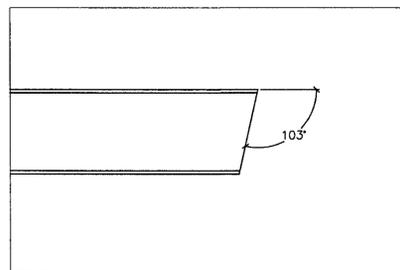
UPPER CHORD:



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



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

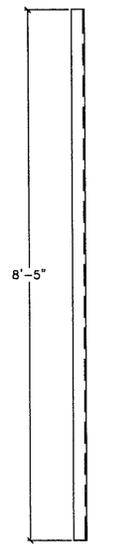


2L8U7-END DETAIL
3" = 1'-0"

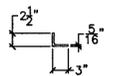
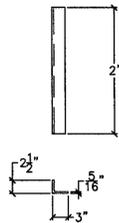
RECEIVED
MAY 11 2009
APPROVED BY *[Signature]*
DATE *5/11/09*

REVAUD BROS. CONSTRUCTION 100 W. MAIN ST. (802) 257-7385
WALLINGFORD BRIDGE REHAB WALLINGFORD, VT
DRAWING TITLE Drawings Truss Type 2 Drawings
DRAWN BY: JED JOB CONTACT: Erick Foster, State of VT
CHECKED BY: ED/AD DATE: 4.30.09
DRAWING NO.: T-2
SHEET NO.: 5 OF 18

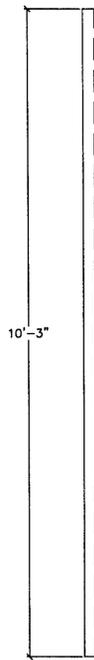
UPRIGHT MEMBERS:



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



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

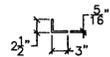
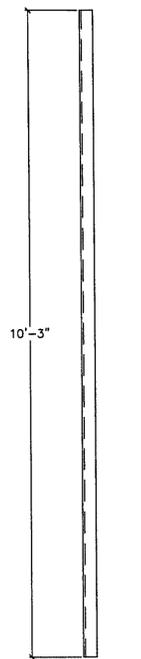


2U2L2L-ANGLE
1-1/2" = 1'-0"

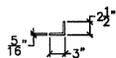
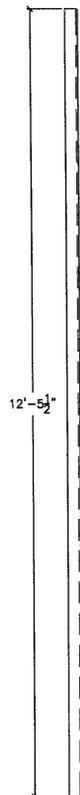
RECEIVED
 CK'D BY CHB OK'D BY _____
 MAY 11 2009
 R. U. G. MIT APPROVED As Noted
 BY WJ DATE 5/11/09

FILE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: JED JOB CONTRACT: Erick Foster State of VT CHECKED BY: ED/AD DATE: 4 30 09		Renaud Bros. Construction 1000 Main Street (802) 257-1285
DRAWING NO. T-2		
SHEET NO. 6 of 18		

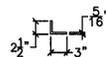
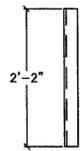
UPRIGHT MEMBERS:



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



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

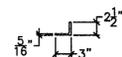
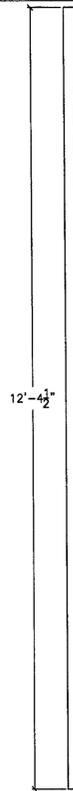


2U3L3R-ANGLE
1-1/2" = 1'-0"

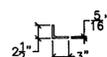
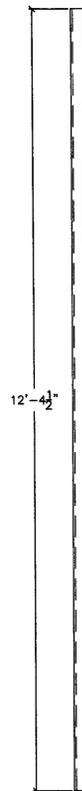
RECEIVED
 CK'D BY CMB OK'D BY _____
 MAY 11 2009
 R. J. GILIT APPROVED As Noted
 BY gq DATE 5/11/09
WJ

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2- Drawings DRAWN BY: JSD JOB CONTACT: Erick Foster State of VT CHECKED BY: ED/AD DATE: 4-30-09		Prepared Eric Construction 1000 Main Street Wallingford, VT 05783 (802) 257-7253
DRAWING NO.	T-2	
SHEET NO.	7 of 18	

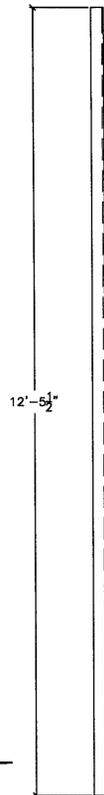
UPRIGHT MEMBERS:



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



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



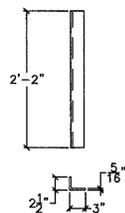
2U5L5L-ANGLE
1-1/2" = 1'-0"

RECEIVED
 OK'D BY CHA OK'D BY _____
 MAY 11 2009
 R. J. G. H. T. APPROVED AS
 BY SJA DATE 5/11/09

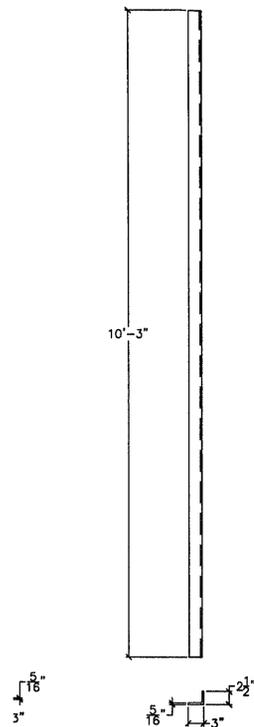
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2: Drawings
DRAWN BY	LED
CHECKED BY	ED/AD
JOB CONTACT	Erick Foster State of VT
DATE	4 30 09
DRAWING NO.	
SHEET NO.	T-2
	8 of 18

Renald Bros. Construction
 Renald Bros. Construction
 (802) 257-7385

UPRIGHT MEMBERS:

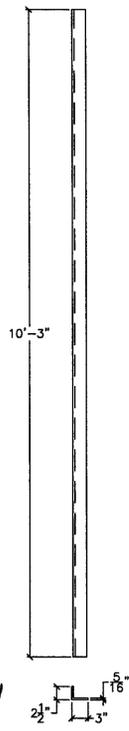


2U5L5R-ANGLE
1-1/2" = 1'-0"



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

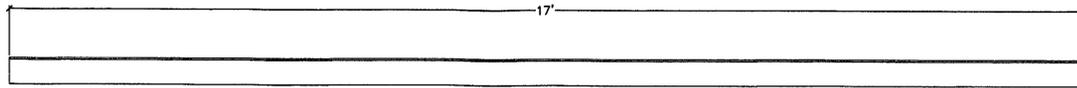
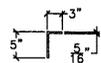
RECEIVED
 OK'D BY CHA OK'D BY _____
 MAY 11 2009
 R. J. ... APPROVED A. M. H.
 BY SJ DATE 5/11/09



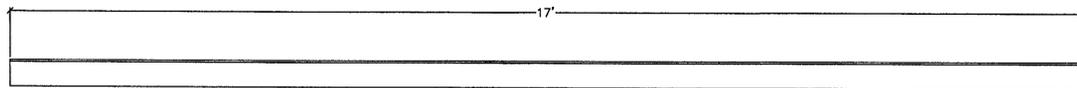
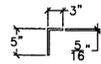
2U6L6R-ANGLE
1-1/2" = 1'-0"

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: JED CHECKED BY: JED/AD DATE: 4.30.09	Renaud Bros. Construction 1000 Vermont Ave. (802) 257-1285
SHEET NO.: T-2	
9 of 18	

UPRIGHT MEMBERS:



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

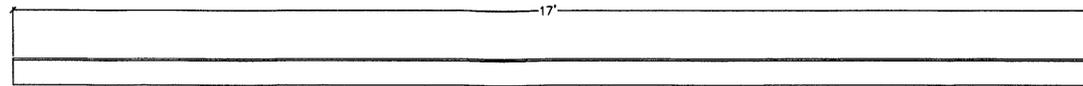
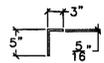


2DMO2-ANGLE
1-1/2" = 1'-0"

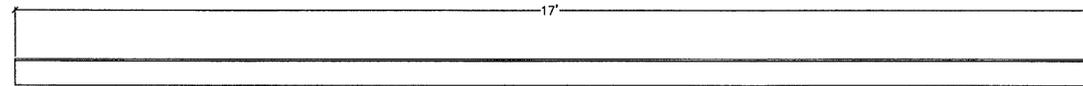
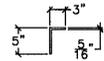
RECEIVED
 CK'D BY CHA OK'D BY _____
 MAY 11 2009
 BY WY APPROVED As Noted
 DATE 5/11/09

Renaud Bros. Construction Performance Vermont (802) 257-7300	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: SED CHECKED BY: SED/AD
JOB CONTACT: Erick Foster STATE: VT	DATE: 4.30.09
DRAWING NO: T-2	SHEET NO: 10 of 18

UPRIGHT MEMBERS:



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



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

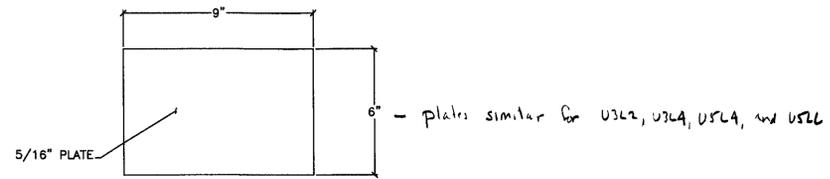
RECEIVED
 OK'D BY CHA OK'D BY _____

MAY 11 2009

APPROVED A. [Signature]
 BY WJ/SJ DATE 5/19/09

TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Truss Type 2: Drawings DRAWN BY: JED CHECKED BY: JED/AD JOB CONTACT: Erick Foster, State of VT DATE: 4 30 09	Renaud Bros. Construction 1000 Vermont Road (802) 257-7338
DRAWING NO.: SHEET NO.: T-2 11 OF 18	

UPRIGHT MEMBERS:



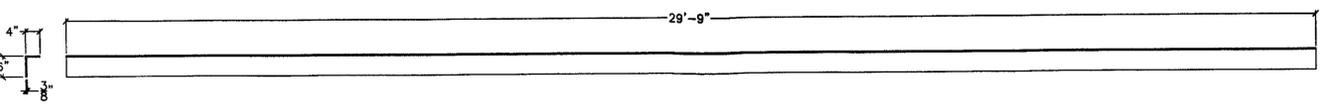
2DM05-PLATE
6" = 1'-0"

RECEIVED
CK'D BY CMA OK'D BY _____
MAY 11 2009
R. GENTILE APPROVED *[Signature]*
BY SJA DATE 5/4/09
WY

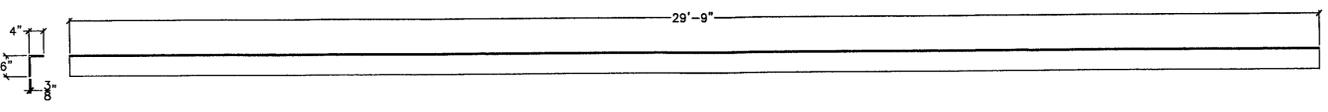
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LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2. Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
JOB CONTACT	Enck Foster State of VT
DATE	4 30 09
DRAWING NO.	T-2
SHEET NO.	12 OF 18

Prasad Bros. Construction
Prasad Brothers Inc.
(802) 257-7285

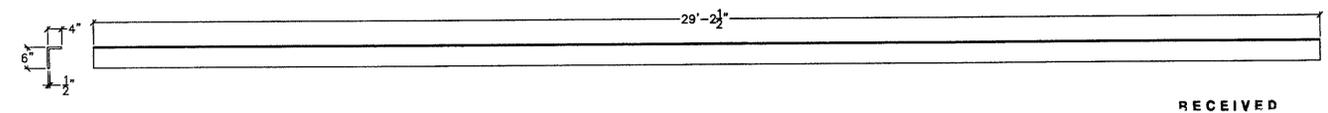
BOTTOM CHORD:



2L0L2A-ANGLE
1" = 1'-0"



2L0L2B-ANGLE
1" = 1'-0"

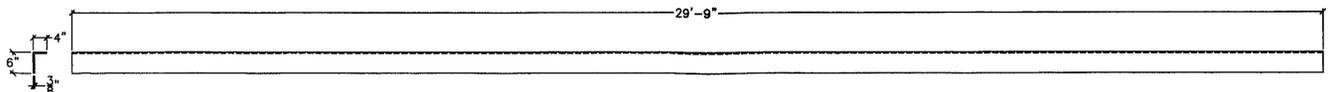


2L2L4A-ANGLE
1" = 1'-0"

RECEIVED
CHK'D BY: CLH OK'D BY: _____
MAY 11 2009
APPROVED: [Signature]
BY: SJS DATE: 5/29/09
WY

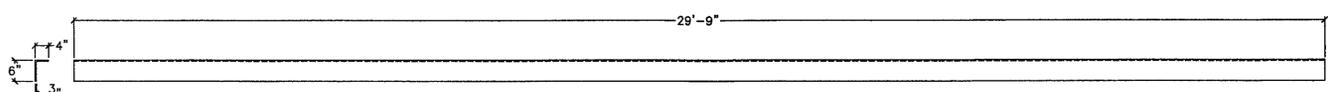
Pineau Bros. Construction Rutland, VT (802) 257-7383	
TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	ED
CHECKED BY	SED/AD
JOB CONTACT	Erick Foster State of VT
DATE	4-30-09
DRAWING NO.	T-2
SHEET NO.	13 of 18

BOTTOM CHORD:



2L6L8A-ANGLE

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



2L6L8B-ANGLE

1" = 1'-0"

RECEIVED
CK'D BY CHA OK'D BY _____

MAY 11 2008

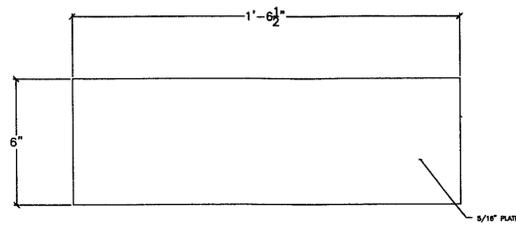
RESUBMIT _____ APPROVED As Noted
BY WY DATE 5/14/09

FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	DRAWINGS TRUSS TYPE 2 DRAWINGS
DRAWN BY	SED
CHECKED BY	ED/AD
DATE	4 30 09
JOB CONTACT	Enok Foster State of VT

DRAWING NO.	T-2
SHEET NO.	15 OF 18

Prepaid Blue Construction
Form (802) 257-7353

BOTTOM CHORD:



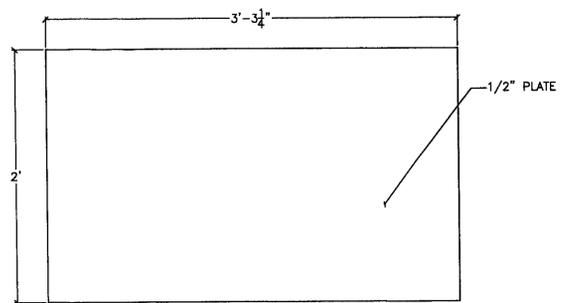
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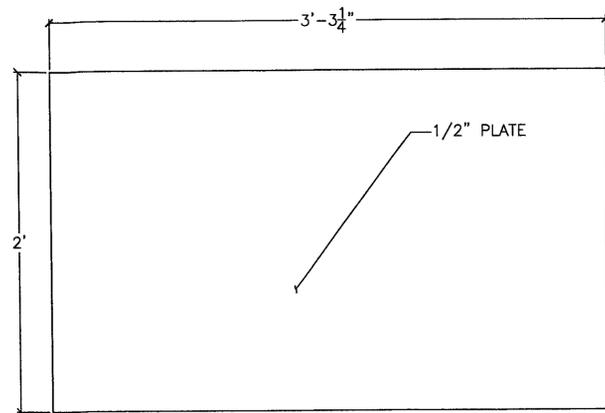
RECEIVED
CK'D BY CHE OK'D BY _____
MAY 11 2009
RESUBMIT _____ APPROVED As Noted
BY WY DATE 5/11/09

Remold Bros. Construction Remold Bros. Construction (802) 257-7353	
FILE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2- Drawings
DRAWN BY	JED
CHECKED BY	JED/AD
DATE	4 30 08
DRAWING NO.	T-2
SHEET NO.	16 of 18

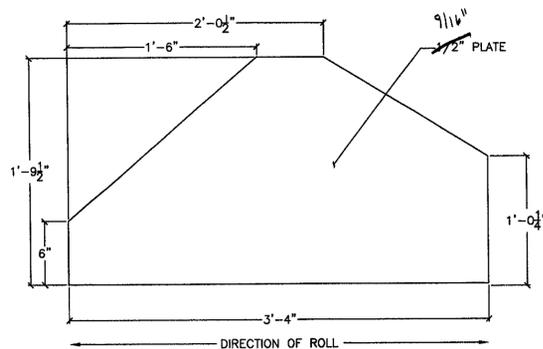
GUSSET PLATES.:



2GP01-PLATE
3" = 1'-0"



2GP02-PLATE
3" = 1'-0"

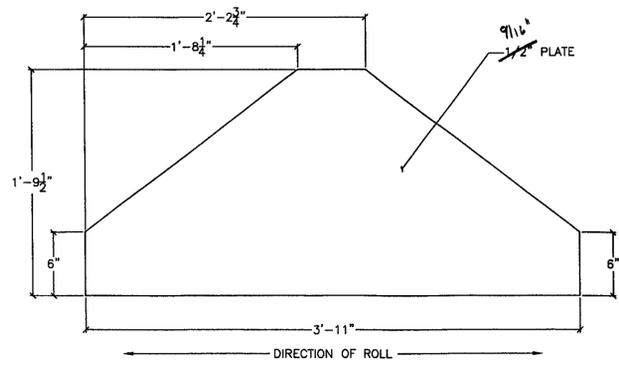


2GP03-PLATE
3" = 1'-0"

RECEIVED
 CK'D BY CH OK'D BY _____
 MAY 11 2009
 R/SUBMIT _____ APPROVED AW
 BY WY DATE 5/11/09

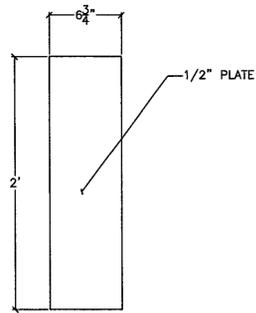
Premium Brass Construction Hardware (802) 257-7353	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING TITLE: Drawings Truss Type 2 Drawings DRAWN BY: JED JOB CONTACT: Erick Foster State of VT CHECKED BY: JED/AD DATE: 4 30 09
DRAWING NO.	T-2
SHEET NO.	17 of 18

GUSSET PLATES.:



2GP04-PLATE

3" = 1'-0"

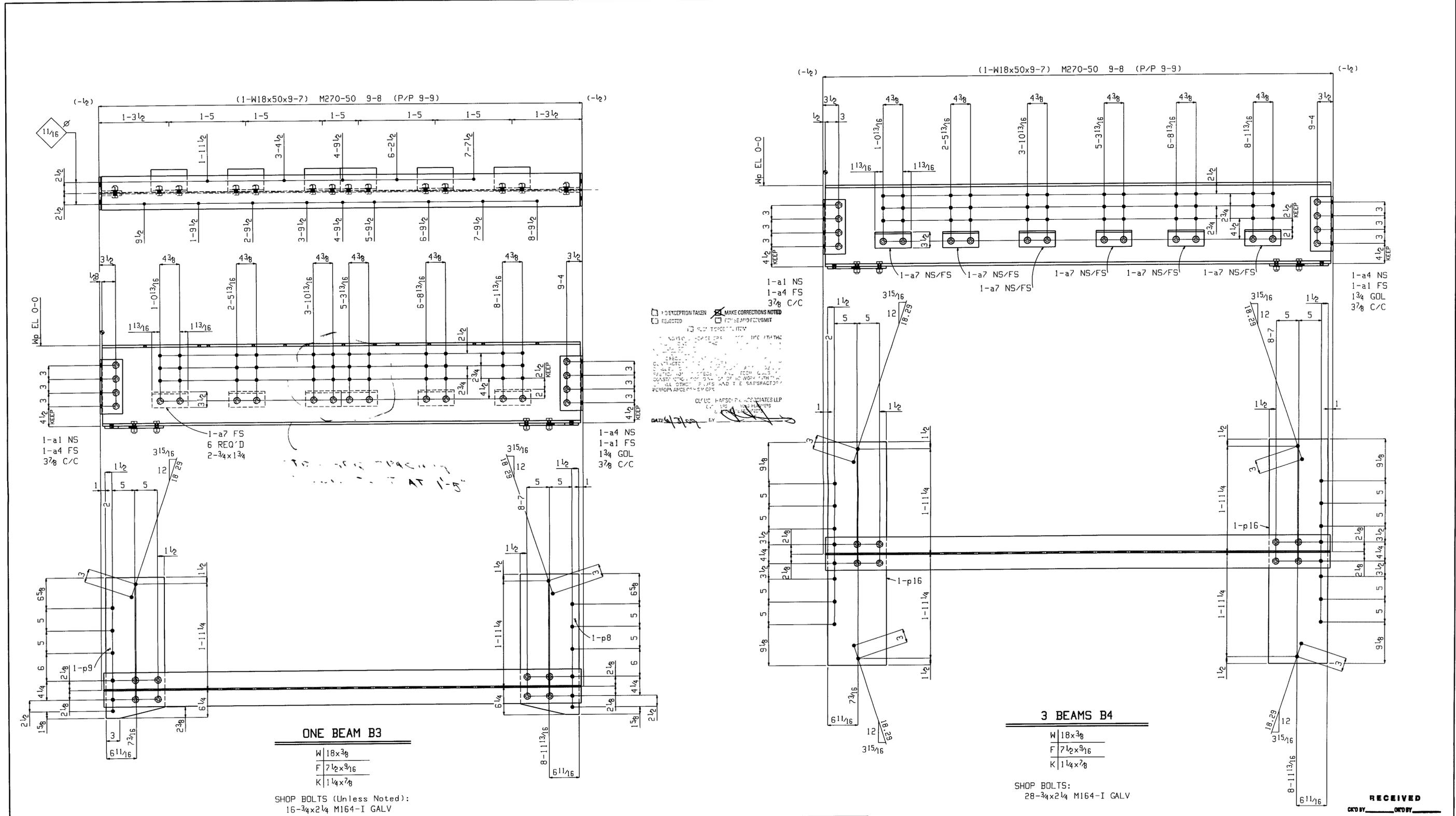


2GP05-PLATE

3" = 1'-0"

RECEIVED
 CK'D BY CJM OK'D BY _____
 MAY 11 2009
 RF SUEMIT _____ APPROVED As Noted
 BY WY SP DATE 5/14/09

Renard Bros. Construction Regional Manager, 2004 (802) 257-1200	
TITLE	Wallingford Bridge Rehab
LOCATION	Wallingford, VT
DRAWING TITLE	Drawings Truss Type 2 Drawings
DRAWN BY	JED
CHECKED BY	ED/AD
JOB CONTRACT	Erick Foster State of VT
DATE	4.30.09
DRAWING NO.	T-2
SHEET NO.	18 of 18



May 15 2009 08:03:46 PM

Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks
Tot.	Mark			NO.	Qty	ABN #	Grade	
1	B3	W18x50	9 7	1	1		M270-50	
2	a1	L5x3 1/2 x 3/8	1 0				M270-50	
2	a4	L5x3 1/2 x 3/8	1 0				M270-50	
6	a7	L5x3 1/2 x 3/8	0 8				M270-50	
1	p8	PL 1/2 x 13	2 7				M270-50	
1	p9	PL 1/2 x 13	2 7				M270-50	
16		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV
12		3/4 Dia M164-I	0 1 3/4					IHD WASH, GALV

Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks
Tot.	Mark			NO.	Qty	ABN #	Grade	
3	B4	W18x50	9 7	1	3		M270-50	
6	a1	L5x3 1/2 x 3/8	1 0				M270-50	
6	a4	L5x3 1/2 x 3/8	1 0				M270-50	

Qty	Piece	Description	Length	Seq	Seq	Adv	Steel	Remarks
Tot.	Mark			NO.	Qty	ABN #	Grade	
36	a7	L5x3 1/2 x 3/8	0 8				M270-50	
6	p16	PL 1/2 x 13	4 1 1/2				M270-50	
84		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV

Total weight 3104

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MAY 26 2009
RFSUBMIT APPROVED BY DATE

3 BEAMS B4
W 18x38
F 7 1/2 x 3 1/16
K 1 1/4 x 7/8

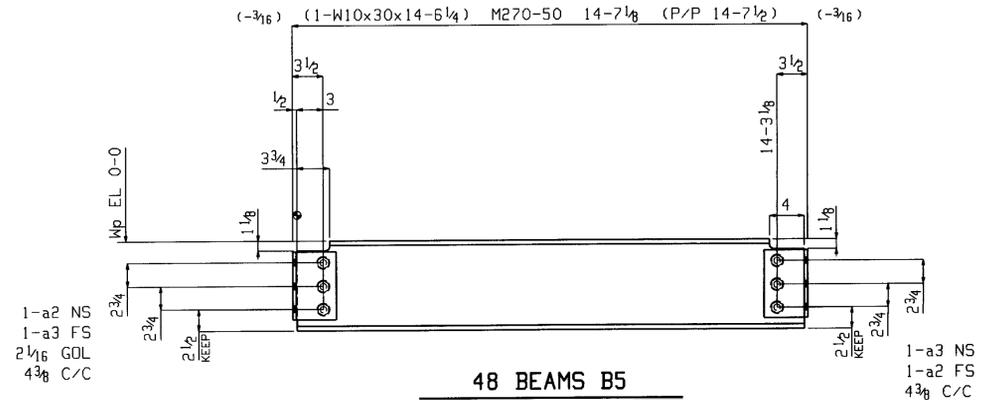
SHOP BOLTS:
28-3/4 x 2 1/4 M164-I GALV

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

Project: **WALLINGFORD BRIDGE**
WALLINGFORD, VT

Holes: 13/16 UNF
Bolts: 3/4" DIA M164-I GALV
Steel GR: M270-50 UNF
Paint: PER SPECS
Surface Prep: PER SPECS

Rev. No: Date: 4-28-09 Job No.
DWN. BY EG Checked Sheet No. B3, 4



48 BEAMS B5
 W 10 1/2 x 3 1/16
 F 5 13/16 x 1/2
 K 1 1/8 x 3/4

SHOP BOLTS
 6-3/4 x 2 1/4 M164-I GALV

NO EXCEPTION TAKEN
 REJECTED
 SUBSTITUTION TO ITEM
 MAKE CORRECTIONS NOTED
 RE-RECALL RE-SUBMIT
 CONTROL BY: _____
 DATE: 4/10/09 BY: _____

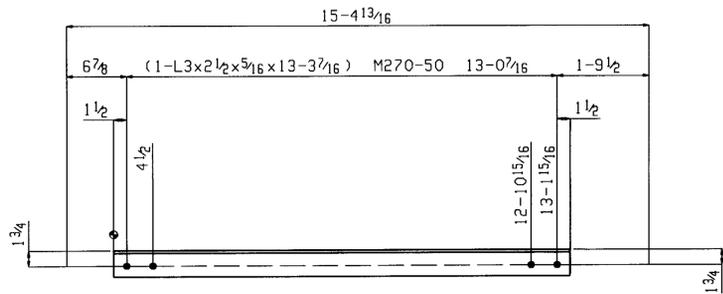
RECEIVED
 CK'D BY: _____
 MAY 26 2009
 RFSUBMIT: _____
 APPROVED: _____
 BY: _____ DATE: _____

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece				Seq	Seq	Adv	Steel	Remarks	Qty	Piece				Seq	Seq	Adv	Steel	Remarks	Qty	Piece				Seq	Seq	Adv	Steel	Remarks
Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade			Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade			Tot.	Mark	Description	Length	NO.	Qty	ABM #	Grade		
48		BEAM		1	48																								
48	B5	W10x30	14 5/4				M270-50																						
96	a2	L5x3 1/2 x 3/8	0 8				M270-50																						
96	a3	L5x3 1/2 x 3/8	0 8				M270-50																						
288		3/4 Dia M164-I	0 2 1/4					IHD WASH, GALV																					

Total weight 22008

Renaud Bros. Inc.		Holes:	1 3/16 UNF
283 Fort Bridgeman Rd. #2		BOLTS:	3/4" DIA M164-I GALV
Vernon, VT. 05354		Steel GR:	M270-50 UNF
Phone 1-802 257-7383		Paint:	PER SPECS
Rev. No:	Date:	Surface Prep:	PER SPECS
Project:	Date:	Job No.	
WALLINGFORD BRIDGE		DWN. BY:	Checked: _____
WALLINGFORD, VT		EG	Sheet No. B5

REV. 15 2008 03:03:46 PM

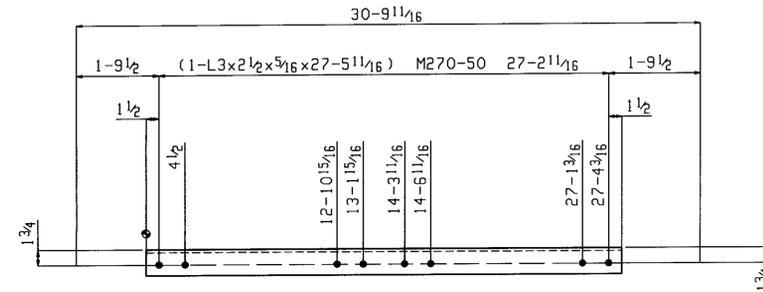


8 HORIZONTAL BRACES HB1

SHOP NOTE
TOE DIRECTION NEAR SIDE
LONG LEG SHOWN

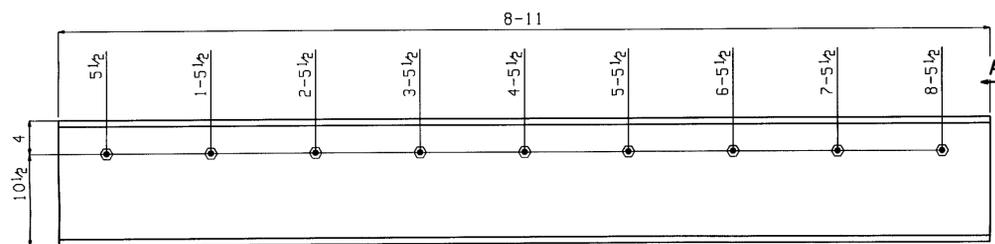
DATE 6/3/09 BY [Signature]

CLDIGH HARBOUR & ASSOCIATES LLP
ENGINEERS ARCHITECTS
& LANDSCAPE ARCHITECTS

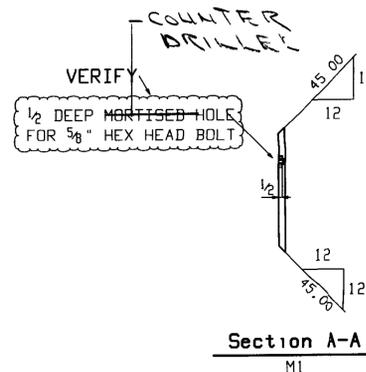


4 HORIZONTAL BRACES HB2

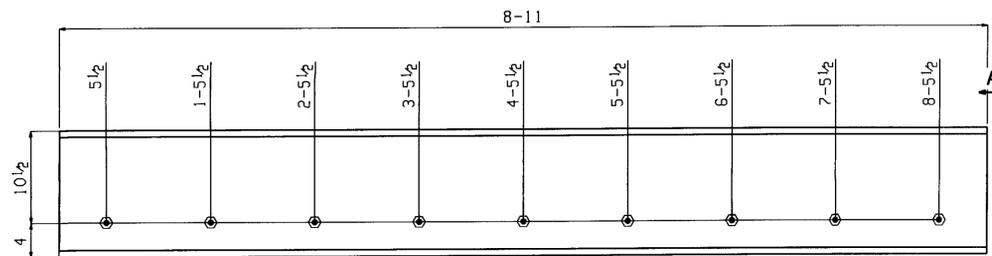
SHOP NOTE:
TOE DIRECTION FAR SIDE
LONG LEG SHOWN



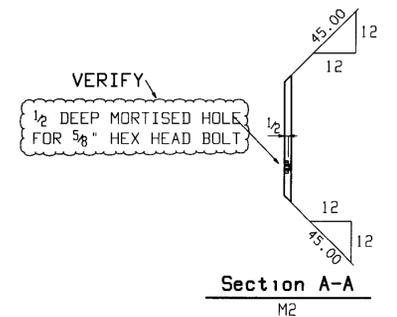
ONE MISC M1
GALV



Section A-A
M1



ONE MISC M2
GALV



Section A-A
M2

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

Total weight 1832

RECEIVED
 CTD BY: _____ OKD BY: _____
 MAY 26 2003
 RFSUBMIT: _____ APPROVED: _____
 BY: _____ DATE: _____

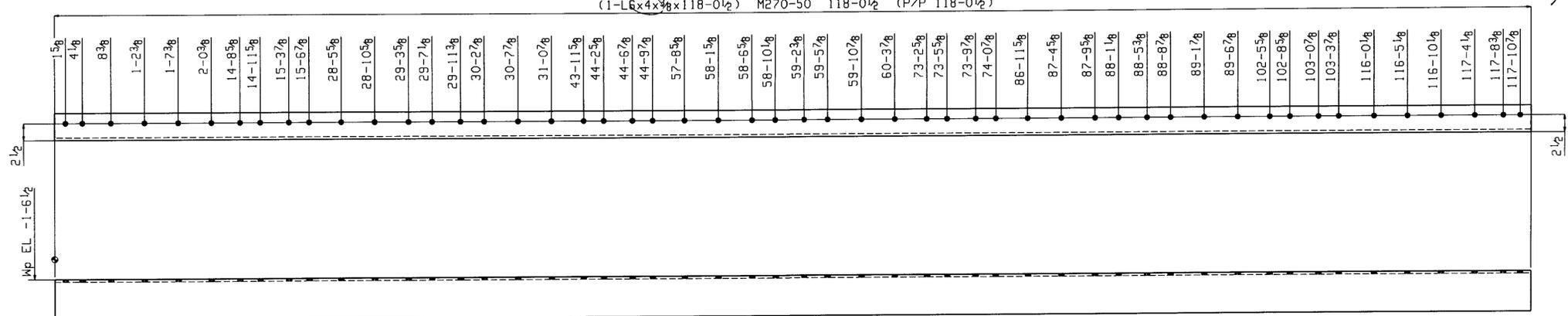
Renaud Bros. Inc.
 283 Fort Bridgeman Rd. #2
 Vernon, VT. 05354
 Phone 1-802 257-7383

Rev.No: _____ Date: _____
 Project: **WALLINGFORD BRIDGE** Date: 4-28-09 Job No. _____
 WALLINGFORD, VT. DWN. BY: EG Checked: _____ Sheet No. HB1-2, M1-2

Holes: 13/16 UNF
 BOLTS: 3/4" DIA M164-I GALV
 Steel GR: M270-50 UNF
 Paint: PER SPECS
 Surface Prep: PER SPECS

MAY 15 2003 03:03:51 PM

1-1-1, 1-1-2, 1-1-3, 1-1-4, 1-1-5, 1-1-6 = 1-1-7
 (SUBMIT TO OFFICE OF VERMONT TRANSPORTATION PER 41-210, PER TO 118-01/2)



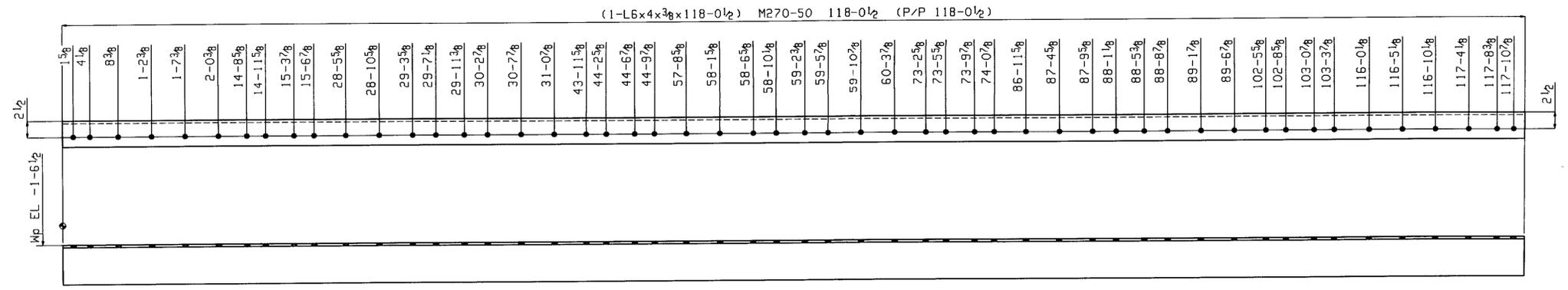
ONE MISC M3

SHOP NOTE:
TOE DIRECTION FAR SIDE

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED
 REJECTED REVISE AND RESUBMIT
 SUBMIT SPECIFIED ITEMS

CLOUGH HARDENED & ASSOCIATES LLP
 ENGINEERS - ARCHITECTS - INTERIORS
 & GENERAL CONTRACTORS

DATE 5/19/09 BY [Signature]



ONE MISC M4

SHOP NOTE:
TOE DIRECTION NEAR SIDE

BILL OF MATERIAL										BILL OF MATERIAL										BILL OF MATERIAL									
Qty	Piece				Seq	Seq	Adv	Steel	Remarks	Qty	Piece				Seq	Seq	Adv	Steel	Remarks	Qty	Piece				Seq	Seq	Adv	Steel	Remarks
Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade		Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade		Tot.	Mark	Description	Length		NO.	Qty	ABM #	Grade	
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 2888

RECEIVED
 CND BY _____
 MAY 26 2009
 RFSUBMIT _____
 BY _____ APPROVED _____
 DATE

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

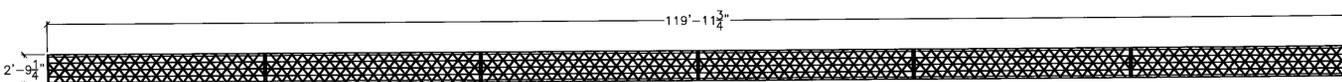
Rev. No: _____ Date: 4-28-09
 DWN. BY: EG Checked _____
 Surface Prep: PER SPECS
 Job No. _____
 Sheet No. **M3, 4**

MAY 15 2009 05:05:54 PM

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

RAILING SYSTEM:



RAILING OVER-ALL

1/4" = 1'-0"

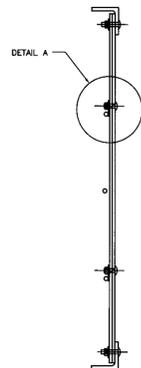
RECEIVED
 OK'D BY _____ OK'D BY *As Not*
 JUL 31 2013
 R. _____ APPROVED _____
 BY *WJ* DATE *8/6/13*

Renaud Bros. Construction 1000 Main Street (802) 257-7283	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Railing System General Notes & Drawings DRAWN BY: JED CHECKED BY: JED/AD JOB CONTACT: Erik Foster State of VT DATE: 4-30-08	DRAWING NO: R-1 SHEET NO: 1 OF 10

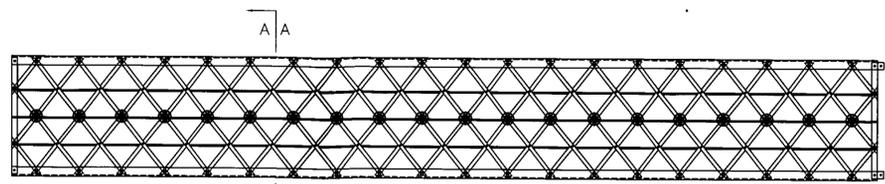
RAILING SYSTEM:



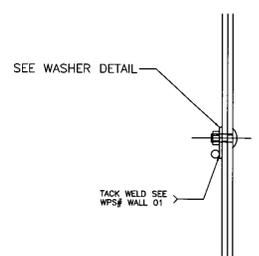
WASHER SELECTION
6"=1'-0" QTY 240



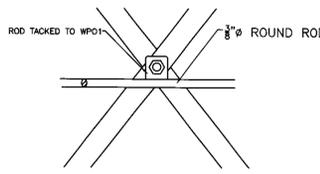
SECTION A-A
3"=1'-0"



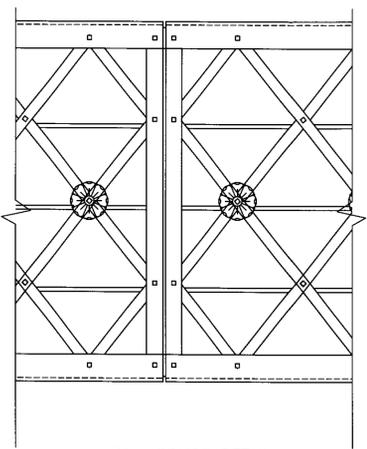
RAIL ASSEMBLY ELEV
1"=1'-0"



DETAIL A
6"=1'-0"



WASHER DETAIL
6"=1'-0"

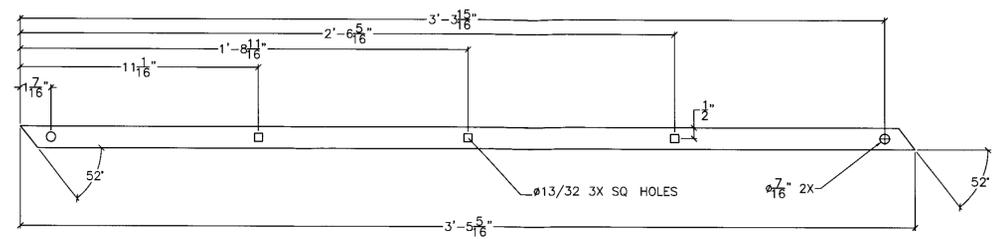


RAIL SPLICE DETAIL
3"=1'-0"

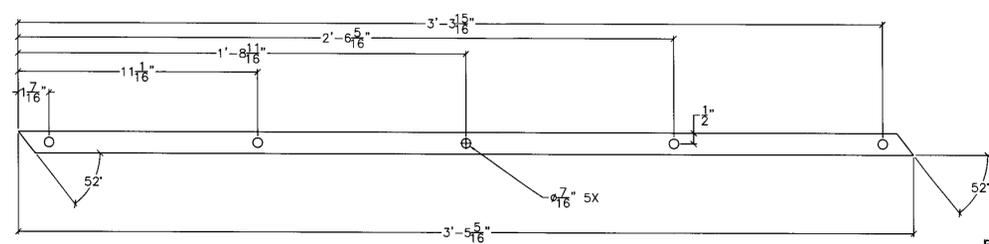
RECEIVED
CHKD BY _____ OK'D BY _____
JUL 31 2004
APPROVED _____
BY *W.B. Sp* DATE *8/4/04*

Pennaud Bros. Construction 1000 Main Street Wallingford, VT 05491 (802) 267-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1 SHEET NO: 2 of 10
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/JAD	JOB CONTACT: Erick Foster State of VT DATE: 4 30 08

RAILING SYSTEM:



HR01: PLATE-1/4"
 6" = 1'-0" QTY. 216

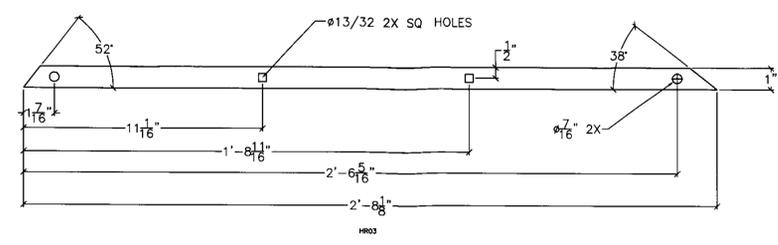


HR02: PLATE-1/4"
 6" = 1'-0" QTY. 216

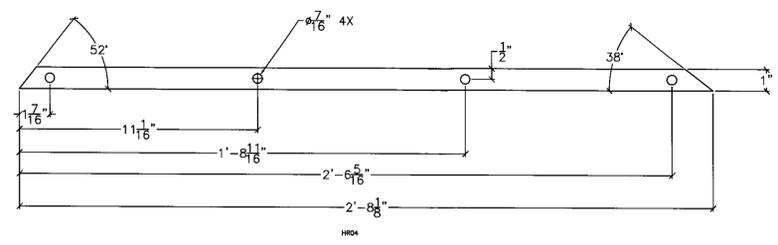
RECEIVED
 CK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *W.A. 9/* APPROVED *[initials]*
 DATE *8/16/09*

Renaud Bros. Construction 1000 Main Street (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: 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	R-1 SHEET NO. 3 OF 10

RAILNG SYSTEM:



HR03: PLATE-1/4"
 6" = 1'-0" QTY. 24

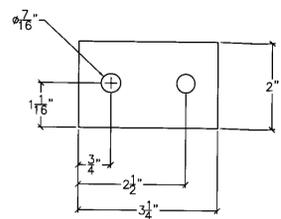
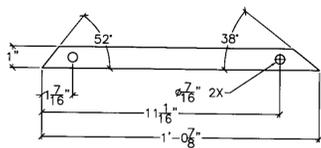


HR04: PLATE-1/4"
 6" = 1'-0" QTY. 24

RECEIVED
 JUL 31 2009
 BY *W.R. S* DATE *8/6/09*

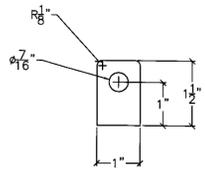
Renaud Bros. Construction 1000 Highway 100 (802) 257-7333	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1 SHEET NO: 4 OF 10
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/AD	JOB CONTACT: Enck Foster State of VT DATE: 4 30 09

RAILING SYSTEM:

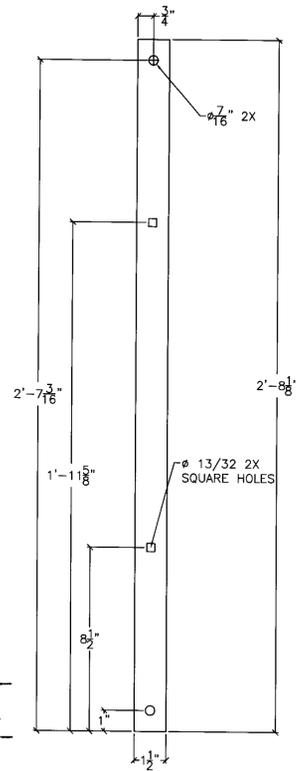


HR05: PLATE-1/4"
6" = 1'-0" QTY. 48

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



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

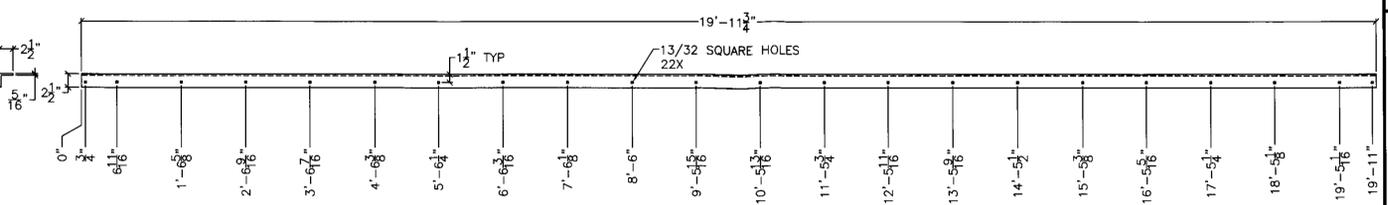


RECEIVED
OK'D BY _____
JUL 31 2009
BY *W.P.S.* DATE 8/6/09

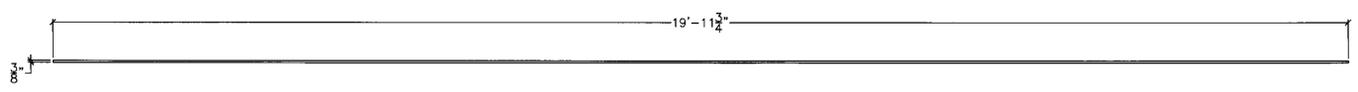
HR09: PLATE-1/4"
6" = 1'-0" QTY. 24

Revised Plot, Construction For Approval Only, VT 0209 (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/AS	JOB CONTACT: Erick Foster, State of VT DATE: 4-30-09
DRAWING NO.	R-1
SHEET NO.	5 of 10

RAILING SYSTEM:



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

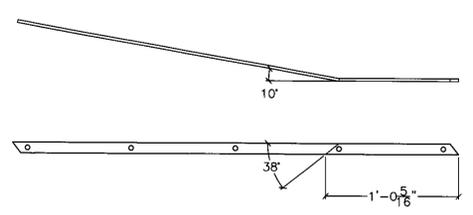


HR10: -3/8 ROUND STOCK
 1-1/2" = 1'-0" QTY. 36

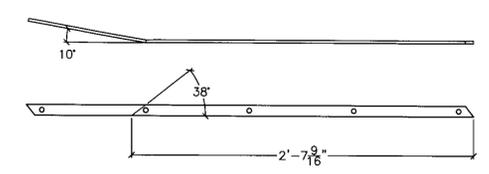
RECEIVED
 OK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *W.F.B.S.J.* DATE 8/6/09

General Rec. Construction Prepared by: Erick Foster (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO.: R-1
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: JED CHECKED BY: JED/AD	JOB CONTACT: Erick Foster State of VT DATE: 4/30/09
SHEET NO. 6 OF 10	

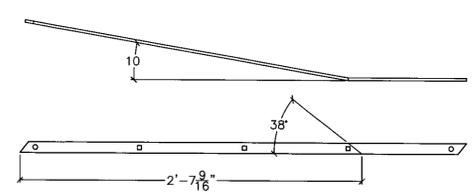
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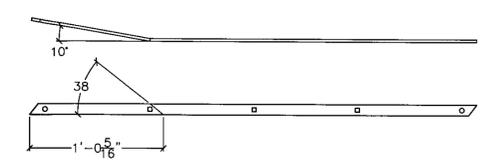
HRO21: LATTICE (USE HRO2)
 3" = 1'-0" QTY 2



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



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

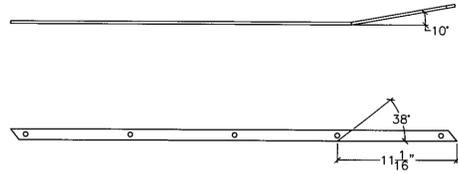


HRO12 -LATTICE (USE HRO1)
 3" = 1'-0" QTY 2

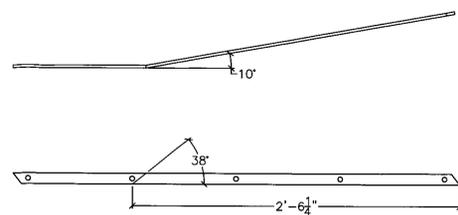
RECEIVED
 JUL 31 2009
 BY *WYB SJ* DATE *8/1/09*

Revised Base Construction Revised for (802) 257-7383	
TITLE: Wallingford Bridge Rehab LOCATION: Wallingford, VT	DRAWING NO: R-1
DRAWING TITLE: Drawings Railing System Drawings DRAWN BY: <i>sed</i> JOB CONTACT: Erick Foster State of VT CHECKED BY: <i>ED/AD</i> DATE: 4 30 09	SHEET NO: 7 OF 10

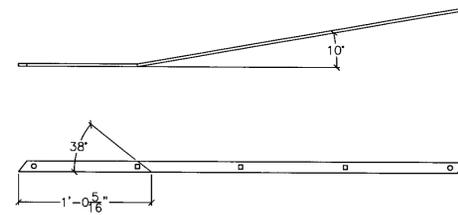
RAILING SYSTEM: FLARED END RIGHT



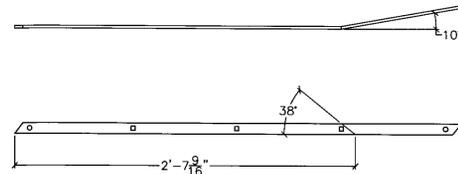
HRO23; LATTICE (USE HRO2)
 3" = 1'-0" QTY 2



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



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

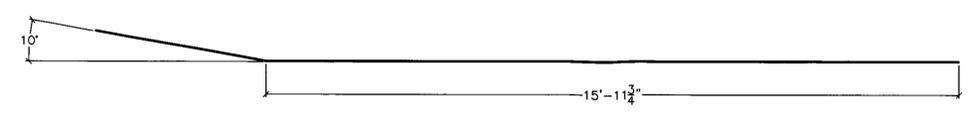


HRO14; LATTICE (USE HRO1)
 3" = 1'-0" QTY 2

RECEIVED
 OK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *wyb* DATE 8/6/09

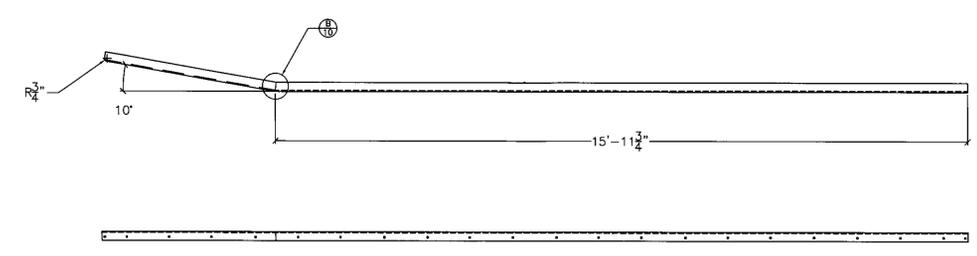
Penland Bros. Construction Penland Bros. Construction (802) 257-7283	
TITLE Wallingford Bridge Rehab	LOCATION Wallingford, VT
DRAWING NO. R-1	SHEET NO. 8 OF 10
DRAWING TITLE Drawings Rolling System Drawings	DRAWN BY: <i>jed</i> JOB CONTACT: <i>Erick Foster State of VT</i>
CHECKED BY: <i>JED/AD</i> DATE: 4/30/09	DATE: 4/30/09

RAILING SYSTEM:



HR101; 3/8 ROUND STOCK (USE HR10)

1" = 1'-0" QTY 12



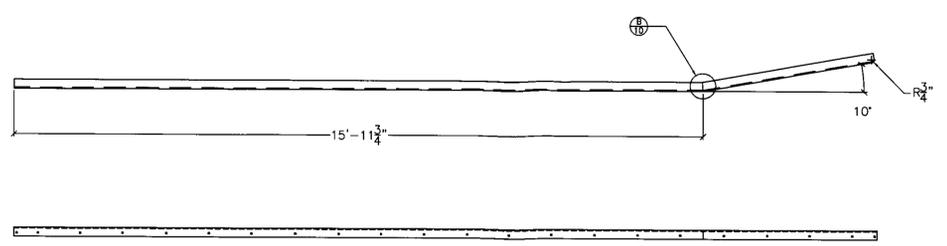
HR081,HR091; ANGLE (USE HR06)

1" = 1'-0" QTY 4

RECEIVED
 OK'D BY _____ OK'D BY _____
 JUL 31 2009
 BY *W.A.S.* DATE *8/2/09*

Renaud Bros Construction 1000 Main Street (802) 257-7383	
TITLE Wallingford Bridge Rehab	LOCATION Wallingford, VT
DRAWING TITLE Drawings Railing System Drawings	DRAWN BY: <i>sed</i> JOB CONTACT: <i>Eric Foster</i> State of VT
CHECKED BY: <i>sed/ad</i> DATE: <i>4/30/09</i>	SHEET NO. 9 of 10

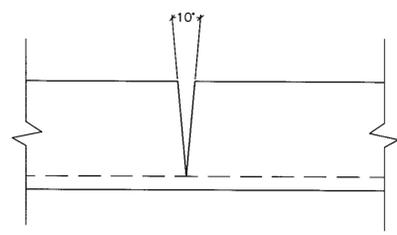
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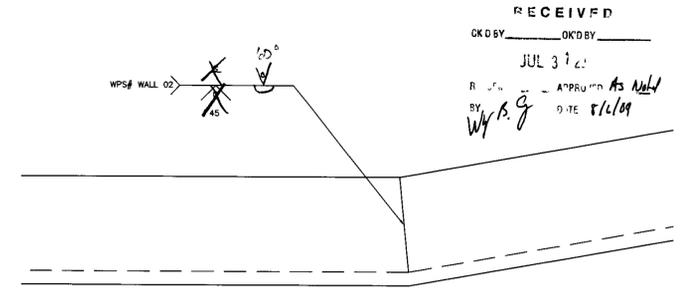
HR082, HR092: -ANGLE (USE HR07)
 1" = 1'-0" QTY 4

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'

TITLE Wallingford Bridge Rehab LOCATION Wallingford, VT	DRAWING NO. R-1
DRAWING TITLE Drawings Railing System Drawings	SHEET NO. 10 of 10
DRAWN BY JED	CHECKED BY JED/AD
JOB CONTACT Erik Feater State of VT	DATE 4 30 09
REVISIONS APPROVED BY WY B. G. DATE 8/2/09	OK'D BY _____
PREPARED BY Erik Feater (802) 257-7283	DATE _____



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

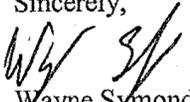
Project Name: Wallingford STP WALK(14)

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's files for shop drawings



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:

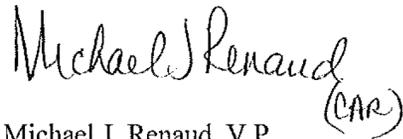
Enclosed for review please find seven (7) sets each of the following with regard to the above-referenced project:

- 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

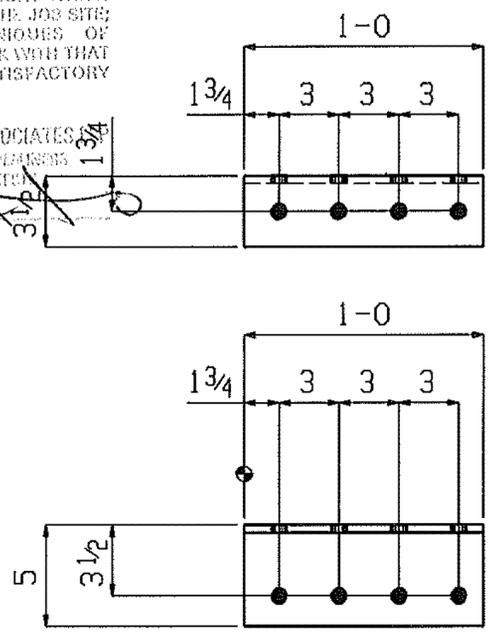
NO EXCEPTION TAKEN
 MAKE CORRECTIONS NOTED
 REJECTED
 REVISE AND RESUBMIT
 SUBMIT SPECIFIC ITEM

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE
 DESIGN CONCEPT OF THE PROJECT AND GENERAL
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 CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH
 WILL BE CONFIRMED AND CORRELATED AT THE JOB SITE.
 ASSIGNMENT PROCESSES AND TECHNIQUES OF
 CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT
 OF ALL OTHER TRADES AND THE SATISFACTORY
 PERFORMANCE OF HIS WORK.

GLENN HANCOCK ASSOCIATES
 PROJECT MANAGERS, PLANNERS
 100 STATE ST. SUITE 200
 WASHINGTON, VT 05676

6/3/09

[Handwritten signature]



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

GRADE: M270-50

RECEIVED

OK'D BY _____ OK'D BY _____

MAY 26 2009

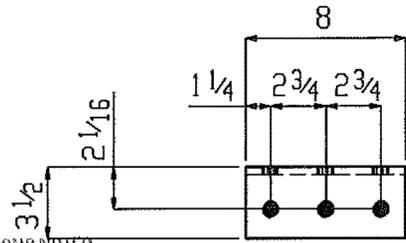
RESUBMIT _____ APPROVED _____

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: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNO	DRWN BY: EG	DATE: 5-11-09
HOLE:	1 3/16 UNO	CHK:	JOB NO:
			a1

May 15 2009 03:07:50 PM



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

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

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

6/7/09 BY *[Signature]*

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

GRADE: M270-50

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JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNO	DRWN BY: EG	DATE: 5-11-09
	HOLES: 13/16 UNO	CHK:	SHT: a2
		JOB NO:	

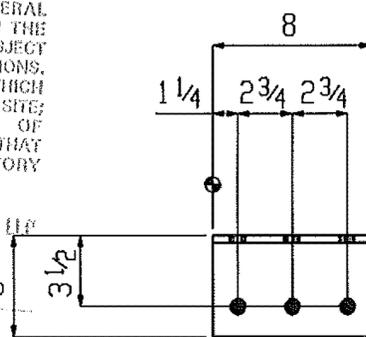
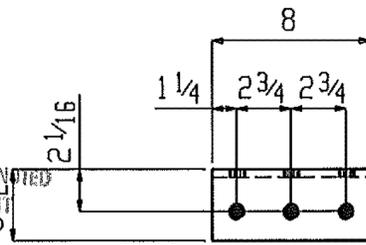
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May 15 2009 03:07:54 PM

NO EXCEPTION TAKEN
 REJECTED

MAKE CORRECTIONS NOTED
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 SUBMIT SPECIFIED ITEM

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JUDITH HARRISON & ASSOCIATES LLP
ARCHITECTS, INTERIORS, PLANNERS
100 CHURCH STREET, SUITE 200
VERNON, VT 05354

6/2/09 [Signature]

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

GRADE: M270-50

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Phone 1-802 257-7383

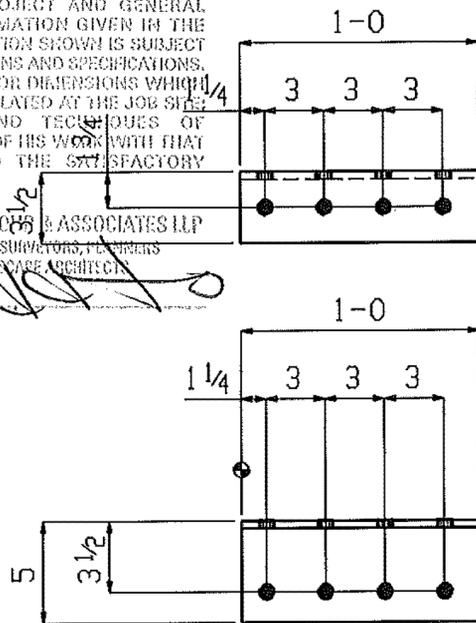
JOB: WALLINGFORD BRIDGE WALLINGFORD, VT		PART	
BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNO HOLES: 13/16 UNO	DRWN BY: EG CHK:	DATE: 5-11-09 JOB NO:
			SHT: a3

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

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

DATE 6/2/09 BY [Signature]



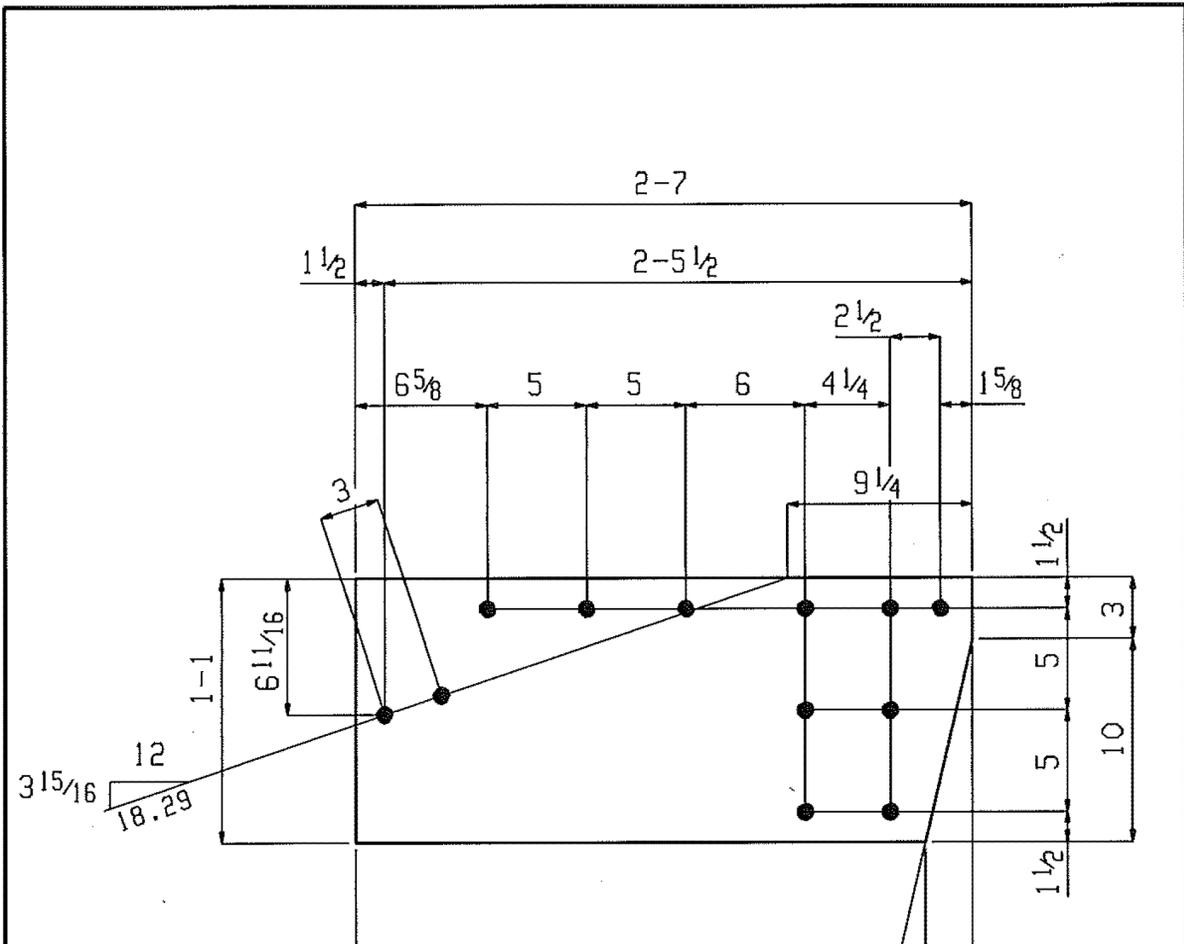
18 L5x3 1/2 x 3/8 x 1-0 a4

GRADE: M270-50

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Phone 1-802 257-7383

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



- NO EXCEPTION TAKEN
- MAKE CORRECTIONS NOTED
- REJECT
- REVISE AND RESUBMIT
- SUBMIT SPECIFIED ITEM

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 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SUCH
 CONDITIONS AS SHOWN AT THE JOB SITE.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE
 SELECTION OF MATERIALS, METHODS, PROCESSES AND TECHNIQUES OF
 CONSTRUCTION; COORDINATION OF THE WORK WITH
 ALL OTHER TRADES AND THE SATISFACTORY
 COMPLETION OF HIS WORK.

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

GRADE M270-50

CLOUD HARBOR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS
 & LANDSCAPE ARCHITECTS

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

13.36
 12
 2 7/8

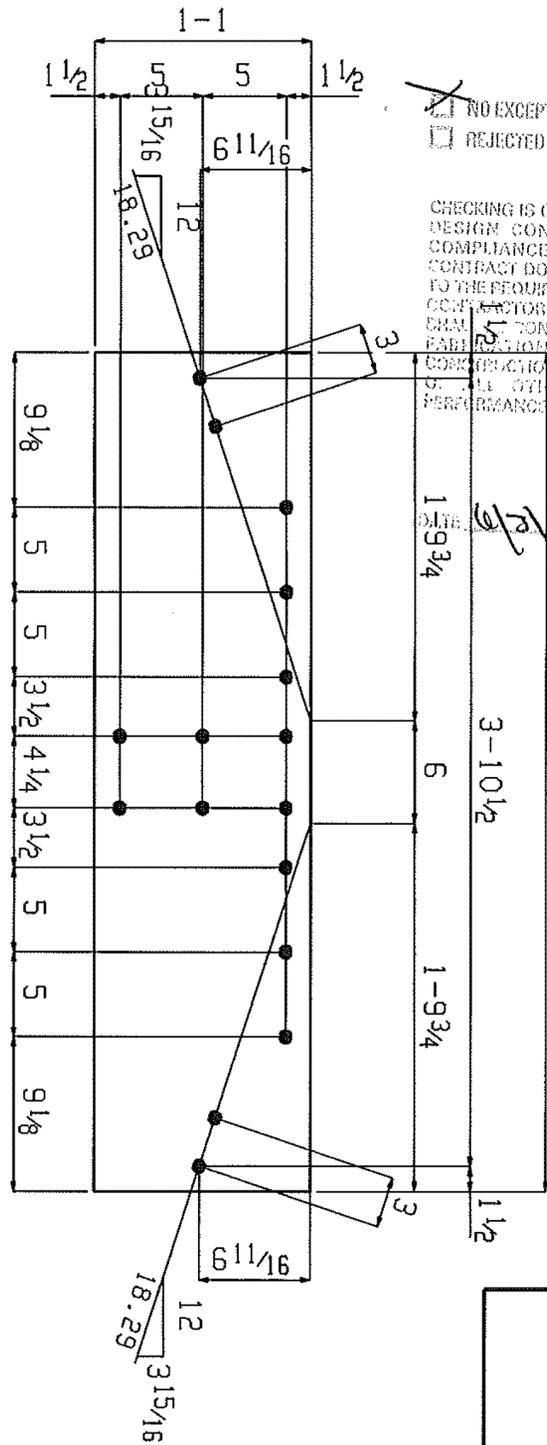
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JOB: WALLINGFORD BRIDGE		PART	
WALLINGFORD, VT			
BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNO	DRWN BY: EG	DATE: 5-11-09
HOLE: 13/16 UNO	CHK:	JOB NO:	SHT: p9

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6 PL 1/2 x 13 x 4 - 1 1/2 p16
GRADE: M270-50



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CLOUGH HARBOR & ASSOCIATES LLP
 100 RIVER ST. SUITE 200
 PORTSMOUTH, NH 03801
 DATE: 5/11/09 BY: [Signature]

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

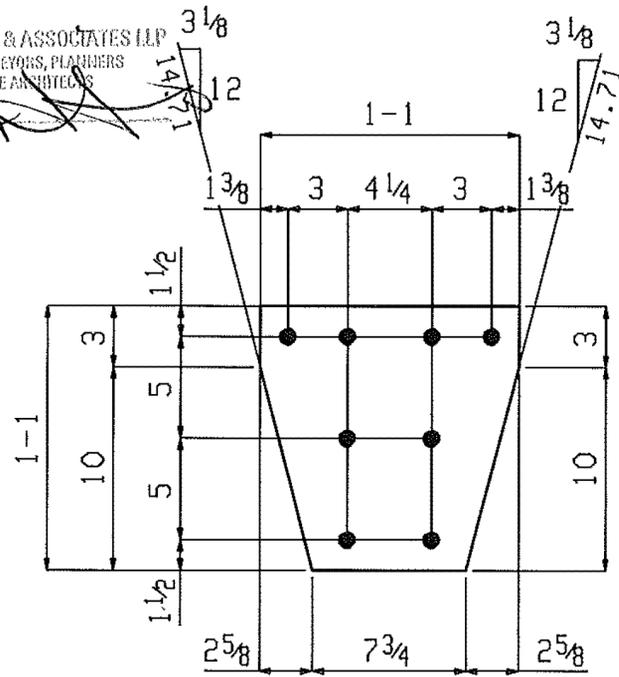
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BOLTS: 3/4" DIA. M164-I GALV	STL GR: M270-50 UNO	DRWN BY: EG	DATE: 5-11-09
HOLES: 13/16 UNO	CHK:	JOB NO:	SHT: p16

NO EXCEPTION TAKEN
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CLEGG HARBOUR & ASSOCIATES LLP
 ENGINEERS, SURVEYORS, PLANNERS
 LANDSCAPE ARCHITECTS

6/2/09



8 PL 1/2 x 13 x 1-1 p17

GRADE: M270-50

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JOB: WALLINGFORD BRIDGE WALLINGFORD, VT		PART	
BOLTS: 3/4" DIA. M164-1 GALV	STL GR: M270-50 UNO	DRWN BY: EG	DATE: 5-11-09
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