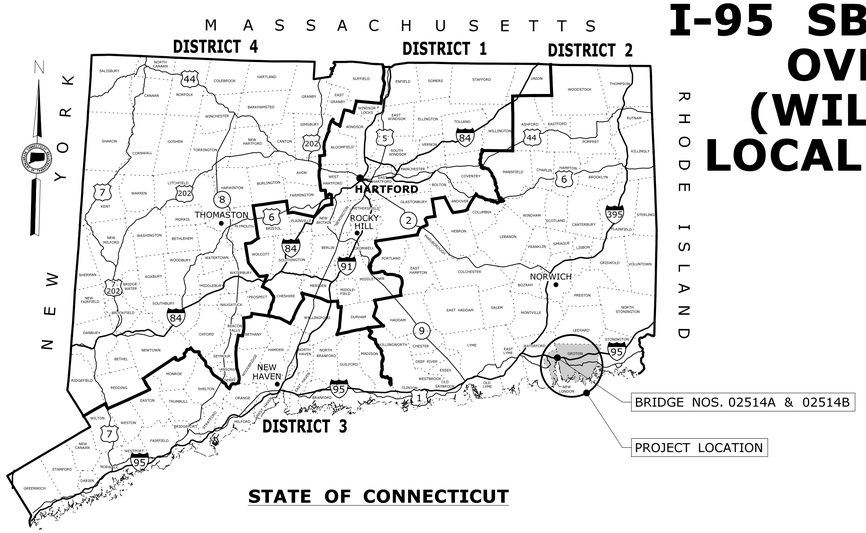
CONNECTICUT DEPARTMENT OF TRANSPORTATION

Plans For

I-95 SB BRIDGE NO. 02514A & I-95 SB (TR 817) BRIDGE NO. 02514B OVER THAMES RIVER, SR 635 (WILLIAMS STREET), RAILROADS, LOCAL ROADS & STATE PIER ROAD



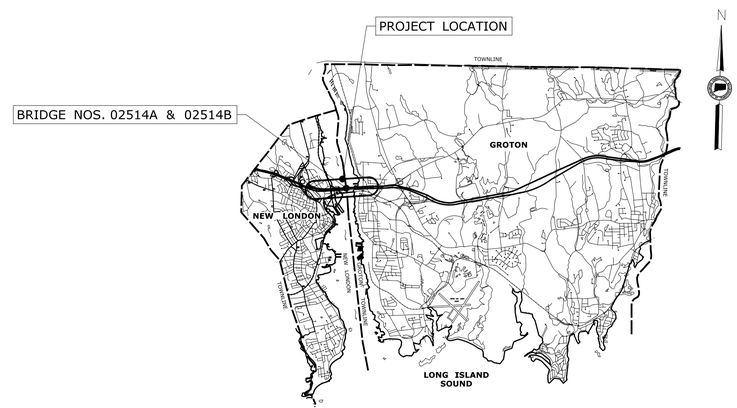
STATE OF CONNECTICUT

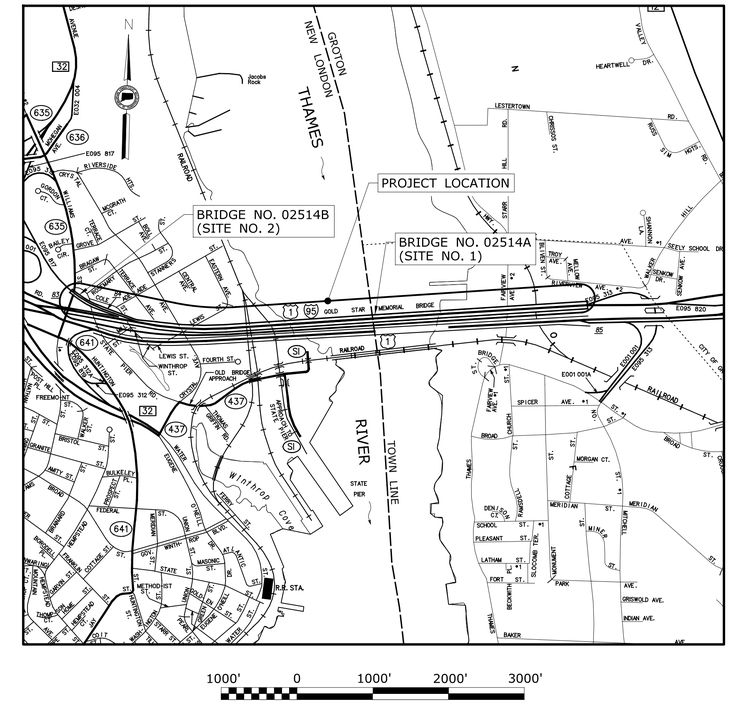
Town(s)/City of

NEW LONDON/GROTON

ROAD	MAINTENANCE RESPONSIBILITY	LENGTH
I-95	STATE	6,563 FEET

F.A.P. #	MAINTENANCE RESPONSIBILITY	PROJECT NO.
N/A		0094-0252





LOCATION PLAN
SCALE: 1"=1000'

GENERAL NOTES:

1. F.H.W.A. REGION NO. 2
2. CONSTRUCTION SPECIFICATIONS:
   CONNECTICUT DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, DATED 2004; SUPPLEMENTAL SPECIFICATIONS, DATED JANUARY 2016; AND SPECIAL PROVISIONS
3. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983
4. VERTICAL DATUM BASED ON NAVD OF 1988.

DISCLAIMER:

IT IS THE RESPONSIBILITY OF EACH BIDDER AND ALL OTHER INTERESTED PARTIES TO OBTAIN ALL BIDDING RELATED INFORMATION AND DOCUMENTS FROM OFFICIAL SOURCES WITHIN THE DEPARTMENT.

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LIST OF SUBSETS

SUBSET NO.	SUBSET TITLE	* SUBSET SHEET COUNT
01	GENERAL	4
02	REVISIONS	1
03	HIGHWAY	10
04	STRUCTURES - BRIDGE 02514A	131
05	STRUCTURES - BRIDGE 02514B	12
06	SIGN SUPPORTS	8
07	TRAFFIC	11
08	ILLUMINATION	12
	CTDOT STANDARD DETAILS - HIGHWAY	
	CTDOT STANDARD DETAILS - TRAFFIC	

* THE INITIAL SUBSET SHEET COUNT DOES NOT INCLUDE ADDENDUMS AND CHANGE ORDERS

LIST OF DRAWINGS
SUBSET 01 - GENERAL

DRAWING TITLE	DRAWING NO.
TITLE SHEET	G-01
DETAILED ESTIMATE SHEET	G-02
DETAILED ESTIMATE SHEET	G-03
DETAILED ESTIMATE SHEET	G-04

STANDARD CONVENTIONS

North Arrow W/No. Coor.
Edge Of Road
Concrete Pavement
Dirt Road
B.C.L.C.
Granite Curb
Guide Rail
Concrete Median Barrier
Bit. Walk
Conc. Sidewalk
Railroad Tracks
Grid Arrow
Limit Of Marsh
Stone Wall
Ledge Outcrop
Inland Wetland Limits
STATE LINE
Power Line
Swamp
Building
Transmission Tower
Chain Link Fence
Rustic Fence
Pipe Fence
Board Fence
Water Edge
Stream
Ditch
TOWN LINE
Riprap
Hedge Row
Tree Line
Shrub
Evergreen Tree
Deciduous Tree
Retaining Wall
Highway Line
Street Line
Property Line
Lot Line
Easement Line

DESIGNED BY:
CARDINAL ENGINEERING ASSOCIATES
Three Colony Street | Meriden|CT|06451
Tel: 203.238.1969 | Fax: 203.630.2056
cardinalengineering.com

STATE OF CONNECTICUT
JOSEPH A. CERMOLA
No. 12757
LICENSED PROFESSIONAL ENGINEER

Joseph A. Cermola, III
2016.07.14
09:00:05-04'00'

Plans For
I-95 SB BRIDGE NO. 02514A &
I-95 SB (TR 817) BRIDGE NO. 02514B
OVER
THAMES RIVER, SR 635
(WILLIAMS STREET), RAILROADS,
LOCAL ROADS & STATE PIER

Town(s)/City
NEW LONDON / GROTON

STATE PROJECT NO.
0094-0252

DRAWING NO.
G-01

SHEET NO.
01.01

STRUCTURE

ITEM NUMBER	0406157 P	0406159 P	0406236 P	0406277A P	0503030A P	0503087A P	0503088A P	0503935A P	0503967A P	0511003A P	0511204A P	0512018A P	0520035A P	0520036A P	0520040A P	0520500A P	0520501A P	0520502A P	0520503A P	0521003A P	0522129A P	0522203A P	0601070A P	0601201 P	0601270A P	0601318A P	0601360A P	0601954A P	0602000 P	0602006 P	0602891 P	0602936A P	0602973A P	0602980A P	0603050A P	0603081A P	0603082A P	0603479A P	0603564A P	0603480A P	0603563A P	0603564A P	0603729A P	0603870A P	0603967 P	0609030A P	0707009A P	0818001 P
ITEM	PMA S0.25	PMA S0.5	MATERIAL FOR TACK COAT	REMOVAL OF EXISTING WEARING SURFACE	REMOVAL OF BRIDGE DECK CONCRETE	JACKING EXISTING SUPERSTRUCTURE (SITE NO. 1)	JACKING EXISTING SUPERSTRUCTURE (SITE NO. 2)	REMOVAL OF PARAPET	TEMPORARY WORK PLATFORM	CLEAN EXISTING SCUPPERS	EXTEND EXISTING WEEPHOLES	REMOVAL & REPLACEMENT OF EXISTING BRIDGE DRAINAGE SYSTEM	SILICONE EXPANSION JOINT SYSTEM	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	STRIP SEAL EXPANSION JOINT SYSTEM FOR REHAB PROJECTS	REPLACE MODULAR EXPANSION JOINT SEAL	REPLACE MODULAR EXPANSION JOINT CONTROL SPRING ASSEMBLY	REPLACE MODULAR EXPANSION JOINT SUPPORT BAR BEARING	REPLACE MODULAR EXPANSION JOINT CENTER BEAM	BEARING REPLACEMENT WITH ELASTOMERIC BEARING PADS	CLEAN & LUBRICATE EXISTING BEARINGS	3" ELASTOMERIC COMPRESSION SEAL	CLASS "S" CONCRETE	CLASS "F" CONCRETE	FULL DEPTH PATCH (HIGH EARLY STRENGTH CONCRETE)	PARTIAL DEPTH PATCH	REPAIR BEARING PAD	EPOXY INJECTION CRACK REPAIR	DEFORMED STEEL BARS	DEFORMED STEEL BARS (EPOXY COATED)	DOWEL BAR SPLICER SYSTEM-EPOXY COATED	DRILLING & GROUTING REINFORCING BARS	BOLT REPLACEMENT	CLEAN AND COAT EXPOSED REINFORCING STEEL	REPAIR DEFECTIVE WELDS	STRUCTURAL STEEL REPAIRS (SITE NO. 1)	STRUCTURAL STEEL REPAIRS (SITE NO. 2)	ABRASIVE BLAST CLEANING & FIELD PAINTING OF BEAM ENDS (SITE NO. 1)	CLASS 1 CONTAINMENT & COLLECTION OF SURFACE PREPARATION DEBRIS (SITE NO. 1)	ABRASIVE BLAST CLEANING & FIELD PAINTING OF BEAM ENDS (SITE NO. 2)	CLASS 1 CONTAINMENT & COLLECTION OF SURFACE PREPARATION DEBRIS (SITE NO. 2)	CLASS 1 CONTAINMENT & COLLECTION OF SURFACE PREPARATION DEBRIS (SITE NO. 2)	LOCALIZED PAINT REMOVAL & FIELD PAINTING OF EXIST STEEL	REMOVAL OF EXISTING STRUCTURAL STEEL	PEENING COVER PLATE WELDS	REPOINT MORTAR JOINTS	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	PROTECTIVE COMPOUND FOR BRIDGES
UNIT	TON	TON	GAL	SY	CY	LS	LS	CY	LS	EA	EA	LF	LF	CF	LF	LF	EA	EA	LF	EA	EA	LF	CY	CY	CY	CF	EA	LF	LB	LB	EA	LF	EA	LF	LF	CWT	CWT	LS	LS	LS	LS	LS	SF	LS	EA	LF	SY	SY
BRIDGE 02514A	3250	4725	2975	59500	30	1	0	45	1	71	18	89	125	1445	264	2000	135	36	80	0	34	216	30	90	450	8673	2	35	30	30000	250	10	192	575	321	105	0	1	1	0	1	0	1450	1	9	5843	59300	355
BRIDGE 02514B	90	135	81	1625	0	0	1	0	0	2	0	0	0	60	0	0	0	0	0	0	21	0	30	5	3	12	241	5	5	400	0	0	40	0	7	5	0	41	0	0	1	0	1	10	1	0	0	1625	35
OVERHEAD SIGN SUPPORTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	3340	4860	3056	61125	30	1	1	45	1	73	18	89	125	1505	264	2000	135	36	80	21	34	246	35	93	462	8914	7	40	430	30000	250	50	192	582	326	105	41	1	1	1	1	1	1460	1	9	5843	60925	390
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3340	4860	3056	61125	30	1	1	45	1	73	18	89	125	1505	264	2000	135	36	80	21	34	246	35	93	462	8914	7	40	430	30000	250	50	192	582	326	105	41	1	1	1	1	1	1460	1	9	5843	60925	390

STRUCTURE

ITEM NUMBER	0904968A P	0904987A P	0905021A P	0974105A P	1002302A P	1008312 P	1008315 P	1008860A P	1009016 P	1009600 P	1015041A P	1201802A P	1206011A P	1809501 P
ITEM	REMOVE AND RESET METAL BRIDGE RAIL (5' HIGH)	REMOVE AND RESET METAL BRIDGE RAIL	RESET METAL POST	CONCRETE HAUNCH REMOVAL	MODIFY LIGHT STANDARD ANCHORAGES	1" RIGID METAL CONDUIT IN STRUCTURE	2" RIGID METAL CONDUIT IN STRUCTURE	4" FIBERGLASS MULTIDUCT CONDUIT - EXTRA HEAVY WALL	18" X 12" X 8" CAST IRON JUNCTION BOX	14" X 16" X 8" FIBERGLASS JUNCTION BOX	PULL BOX	4 CHORD TRUSS BRIDGE SIGN STRUCTURE (BRIDGE MOUNTED)	REMOVAL OF EXISTING OVERHEAD SIGNING	RESET IMPACT ATTENUATOR
UNIT	LF	LF	EA	LF	EA	LF	LF	LF	EA	EA	EA	EA	LS	EA
BRIDGE 02514A	165	180	1652	12421	3	200	380	6500	7	13	2	0	1	1
BRIDGE 02514B	0	0	216	2874	0	0	0	0	0	0	0	0	0	0
OVERHEAD SIGN SUPPORTS	0	0	0	0	0	0	0	0	0	0	0	3	0	0
SUBTOTAL	165	180	1868	15295	3	200	380	6500	7	13	2	3	1	1
UNASSIGNED	0	0	200	0	0	0	0	0	0	0	0	0	0	0
TOTAL	165	180	2068	15295	3	200	380	6500	7	13	2	3	1	1

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Plotted Date: 7/14/2016

DESIGNER/DRAFTER: C. DAVIS / S. SLATER
CHECKED BY: M. EGAN

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\DD..MSH..0094..0252..BR..NO..02514A..02514B..EST-01.dgn

SIGNATURE/BLOCK:
Cardinal Engineering Associates, Inc.
3 Colony Street
Meriden, CT 06451

PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN: NEW LONDON/GROTON

DRAWING TITLE: DETAILED ESTIMATE SHEET

PROJECT NO. 94-252
DRAWING NO. G-02
SHEET NO. 01.02

HIGHWAY

ITEM NUMBER	0201001 P	0202529 P	0206000 P	0219001 P	0406002 P	0406159 P	0406236 P	0406275A P	0406314A P	0406315A P	0406316A P	0406317A P	0406600 P	0406999 P	0653001 P	0803000 P	0910170 P	0910186 P	0910190 P	0910890 P	0911923 P	0921001 P	0950005 P	0953001 P	0969062A P	0975004 P	0980101 P	0978002 P	0981100 P	1207034A P	1208932A P	1209114 P	1209124 P	1209126 P	1209128 P	1209129 P	1209131 P	1210101 P	1210102 P	1210103 P	1210104 P	1210105 P	1210106 P	1211001 P	1220027 P	P	P	P
ITEM	CLEARING AND GRUBBING	CUT BITUMINOUS CONCRETE PAVEMENT	DITCH EXCAVATION	SEDIMENTATION CONTROL SYSTEM	TEMPORARY PAVEMENT	PMA S0.5	MATERIAL FOR TACK COAT	FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4")	80 MIL PAVEMENT MARKING GROOVE 5" WIDE	80 MIL PAVEMENT MARKING GROOVE 7 "WIDE	80 MIL PAVEMENT MARKING GROOVE 9" WIDE	80 MIL PAVEMENT MARKING GROOVE 13" WIDE	MATERIAL TRANSFER VEHICLE	ASPHALT ADJUSTMENT COST	CLEAN EXISTING CATCH BASIN	PAVED DITCH	METAL BEAM RAIL (TYPE R-B 350)	R-B 350 BRIDGE ATTACHMENT - TRAILING END	CONVERT METAL BEAM RAIL (TYPE R-I) TO (TYPE R-B 350)	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	R-B END ANCHORAGE-TYPE I	CONCRETE SIDEWALK	TURF ESTABLISHMENT	SODDING	CONSTRUCTION FIELD OFFICE, MEDIUM	MOBILIZATION AND PROJECT CLOSEOUT	CONSTRUCTION STAKING (SITE NO. 1)	TRAFFIC DRUM	42" TRAFFIC CONES	SIGN FACE - EXTRUDED ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	SIGN FACE - SHEET ALUMINUM (TYPE IV RETROREFLECTIVE SHEETING)	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 6" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 8" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 12" WHITE	HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	6" WHITE EPOXY RESIN PAVEMENT MARKINGS	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	REMOVAL OF PAVEMENT MARKINGS	CONSTRUCTION SIGNS			
UNIT	LS	LF	CY	LF	SY	TON	GAL	SY	LF	LF	LF	LF	TON	EST	EA	SY	LF	EA	LF	EA	EA	SF	SY	SY	MO	LS	LS	EA	EA	SF	SF	LF	LF	LF	LF	LF	SF	LF	LF	LF	SF	LF	SF	SF			
	1	198	526	1000	7467	316	110	2200	14440	17271	1169	4014	8516	EST	1	28	670	2	38	1	2	50	7200	497	20	1	1	150	50	1487	66	14150	14730	34542	2338	8028	252	7365	7075	17271	1169	126	4014	1000	190			
SUBTOTAL	1	198	526	1000	7467	316	110	2200	14440	17271	1169	4014	8516	EST	1	28	670	2	38	1	2	50	7200	497	20	1	1	150	50	1487	66	14150	14730	34542	2338	8028	252	7365	7075	17271	1169	126	4014	1000	190			
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TOTAL	1	198	526	1000	7467	316	110	2200	14440	17271	1169	4014	8516	EST	1	28	670	2	38	1	2	50	7200	497	20	1	1	150	50	1487	66	14150	14730	34542	2338	8028	252	7365	7075	17271	1169	126	4014	1000	190			

TRAFFIC

ITEM NUMBER	0822005A P	0970006 P	0970007 P	0971001A P	0976002 P	0978002 P	1130000 P	1131002A P	1205207 P	1205214 P	1209114 P	1209124 P	1209126 P	1209128 P	1209129 P	1209131 P	1220027 P	1806201A P	1807010 P	1807011 P	1807012 P	1807013 P	1807014 P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
ITEM	TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	TRAFFICPERSON (MUNICIPAL POLICE OFFICER) (ESTIMATED COST)	TRAFFICPERSON (UNIFORMED FLAGGER)	MAINTENANCE AND PROTECTION OF TRAFFIC	BARRICADE WARNING LIGHTS - HIGH INTENSITY	TRAFFIC DRUM	HIGH MOUNTED INTERNALLY ILLU-MINATED FLASHING ARROW	REMOTE CONTROL CHARGEABLE MESSAGE SIGN	TYPE DE-7 DELINEATOR	TYPE DE-7A DELINEATOR	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" YELLOW	HOT-APPLIED PAINTED PAVEMENT MARKINGS 4" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 6" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 8" WHITE	HOT-APPLIED PAINTED PAVEMENT MARKINGS 12" WHITE	HOT-APPLIED PAINTED LEGEND, ARROWS AND MARKINGS	CONSTRUCTION SIGNS	TYPE D PORTABLE IMPACT ATTENATION SYSTEM	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 200 LB	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 400 LB	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 700 LB	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 1400 LB	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A MODULE 2100 LB																																	
UNIT	LF	EST	HR	LS	DAY	EA	DAY	DAY	EA	EA	LF	LF	LF	LF	LF	SF	SF	HR	EA	EA	EA	EA	EA																										
MPT-02	0	EST	0	0	0	0	1386	0	0	0	0	0	0	0	0	0	175	0	0	0	0	0	0																										
MPT-03	500	0	0	0	728	0	0	0	15	15	100	100	100	100	100	100	124	550	6	6	4	8	4																										
MPT-04	3500	0	0	0	0	72	0	14	46	46	100	100	100	100	100	100	48	550	12	12	8	16	8																										
SUBTOTAL	4000	EST	160	0	728	72	1386	14	61	61	200	200	200	200	200	200	347	1100	18	18	12	24	12																										
UNASSIGNED	200	0	0	1	40	4	0	1	0	0	10	10	10	10	10	10	653	0	0	0	0	0	0																										
TOTAL	4200	EST	160	1	768	76	1386	15	61	61	210	210	210	210	210	210	1000	1100	18	18	12	24	12																										

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DRAWING TITLE: DETAILED ESTIMATE SHEET

PROJECT NO. 94-252
DRAWING NO. G-03
SHEET NO. 01.03

ILLUMINATION

ITEM NUMBER	1001001 P	1003104 P	1003906A P	1005600A P	1008015 P	1008127 P	1008640A P	1008901A P	1009232A P	1009300A P	1010011 P	1012010 P	1012038 P	1012031 P	1013003 P	1013007 P	1014901A P	1015001 P	1018007A P	1018008A P	1018009A P	1018101A P
ITEM	TRENCHING AND BACKFILLING	LIGHT STANDARD (ANCHOR BASE) (10' BRACKET, 40' MOUNTING HEIGHT) ALUMINUM	REMOVE LIGHT STANDARD	LED LUMINAIRE	2" RIGID METAL CONDUIT - SURFACE	2" POLYVINYL CHLORIDE CONDUIT IN TRENCH	1" FIBERGLASS CONDUIT - SURFACE	REMOVE CONDUIT	6" X 6" JUNCTION BOX (WEATHERPROOF)	STEEL JUNCTION BOX COVER	CONCRETE HANDHOLE - TYPE I	NO. 10 SINGLE CONDUCTOR	NO. 8 SINGLE CONDUCTOR	NO. 2 SINGLE CONDUCTOR	1" LIQUID TIGHT FLEXIBLE METAL CONDUIT	2" LIQUID TIGHT FLEXIBLE METAL CONDUIT	REMOVE CABLE	NO. 8 BARE COPPER GROUNDING CONDUCTOR	NAVIGATION LIGHT (PIER)	NAVIGATION LIGHT (PIVOT TYPE CENTER OF CHANNEL)	NAVIGATION LIGHT (PIVOT TYPE CHANNEL MARGIN)	REMOVE NAVIGATION LIGHTS
UNIT	LF	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA
	350	27	27	27	50	350	850	450	12	3	2	2500	6600	20000	25	10	9000	6800	4	1	2	1
SUBTOTAL	350	27	27	27	50	350	850	450	12	3	2	2500	6600	20000	25	10	9000	6800	4	1	2	1
UNASSIGNED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	350	27	27	27	50	350	850	450	12	3	2	2500	6600	20000	25	10	9000	6800	4	1	2	1

ENVIRONMENTAL

ITEM NUMBER	0020801A P	0020903A P	0020904A P	0603222A P
ITEM	ASBESTOS ABATEMENT	LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS	LEAD COMPLIANCE FOR ABRASIVE BLAST CLEANING	DISPOSAL OF LEAD DEBRIS FROM ABRASIVE BLAST CLEANING
UNIT	LS	LS	LS	TON
	1	1	1	1
SUBTOTAL	1	1	1	1
UNASSIGNED	0	0	0	0
TOTAL	1	1	1	1

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\DD..MSH..0094..0252..BR..NO..02514A..02514B..EST-03.dgn

SIGNATURE/BLOCK:
STATE OF CONNECTICUT
DOUGLAS K. GERVAIS
No. 15751
LICENSED
PROFESSIONAL ENGINEER
Cardinal Engineering Associates, Inc.
3 Colony Street
Meriden, CT 06451

PROJECT TITLE:
I-95 SB & TR 817 BRIDGE NOS. 02514A & 02514B OVER THAMES RIVER, SR 635 RR, LOCAL ROADS & STATE PIER

TOWN: NEW LONDON/GROTON

DRAWING TITLE: DETAILED ESTIMATE SHEET

PROJECT NO. 94-252
DRAWING NO. G-04
SHEET NO. 01.04