S.P.R. SEQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1 (8)	1	58

STATE OF MAINE
STATE HIGHWAY COMMISSION

PLANS

YORK

YORK COUNTY

MAINE FEDERAL AID INTERSTATE

PROJECT NO. I-95-1 (8)7

TOTAL LENGTH 0.511 MILES

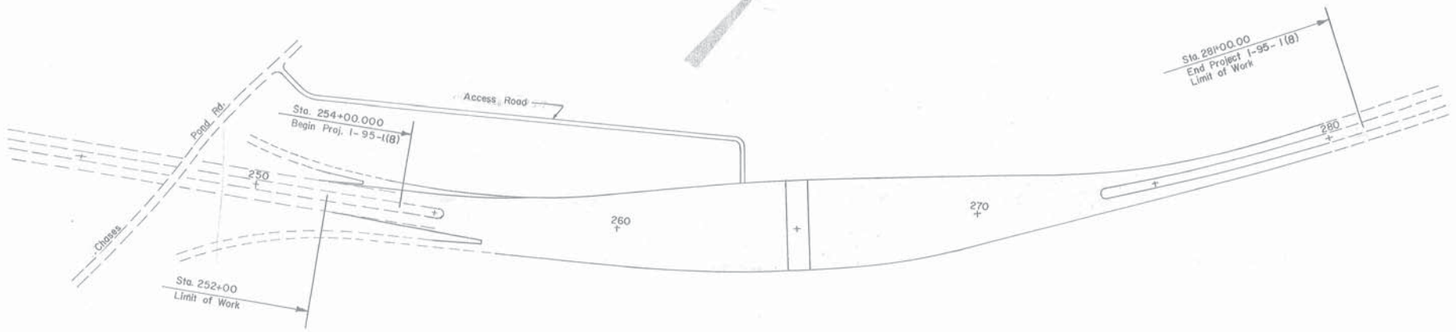
SCALES { PLAN 1 IN. = 50 FT. ; PROFILE { HOR. 1 IN. = 50 FT. ; VER. 1 IN. = 5 FT. } ; CROSS SECTIONS 1 IN. = 5 FT. } OR AS SHOWN

AS CONSTRUCTED
1969 - 1970

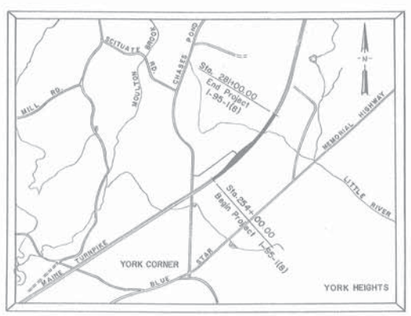
CONVENTIONAL SIGNS

STATE OR NATIONAL LINE		SURVEY LINE	
COUNTY LINE		CULVERT	
TOWN LINE		DROP INLET	
UNFENCED PROPERTY		TROLLEY POLE	
FENCE		POWER POLE	
RIGHT OF WAY LINE		TEL. POLE	
TRAVELED WAY		MARSH	
RAILROAD		TREES	
RETAINING WALL		STONE WALL	
CONTROLLED ACCESS			

INDEX OF SHEETS



LAYOUT PLAN
SCALE: 1" = 200'



A PORTION OF YORK COUNTY

SCALE 1" = 2000'

NOTE

All Work Contemplated Under This Contract To Be Governed By And In Conformity With The Standard Specifications (Revision Of June 1968) And Supplementals Thereto, Except As Modified On The Plans And in The Special Provisions.

TRAFFIC DATA

A.D.T. 1970	14,600
A.D.T. 1990	33,700
D.H.V.	5,729
T. (%)	13.7
D. (%)	70
V.	Not Applicable

APPROVED:
MAINE STATE HIGHWAY COMMISSION — DATE

Dan P. Stivers, CHAIRMAN — APRIL 9, 1969
Steven D. Shaw — APRIL 9, 1969
Lawrence G. Lovejoy — APRIL 9, 1969
Sylvester L. Poor, CHIEF ENGINEER — APRIL 9, 1969

STATE OF MAINE — SYLVESTER L. POOR 187 — REGISTERED PROFESSIONAL ENGINEER

STATE OF MAINE — WILLIAM M. WINCHESTER 3249 — REGISTERED PROFESSIONAL ENGINEER

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

Mar 28, 1969
DATE

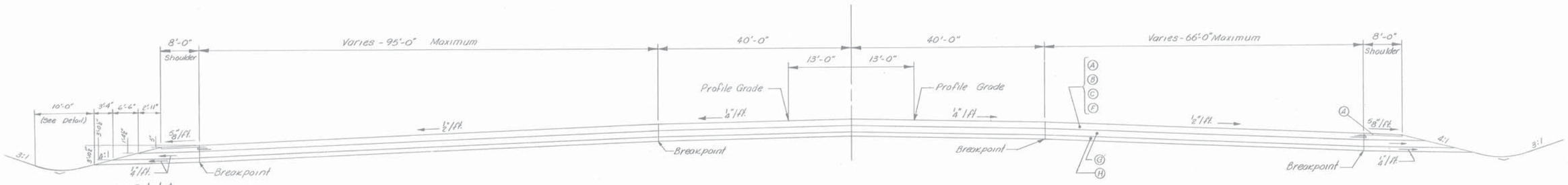
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
REGION 1

APPROVED:

DIVISION ENGINEER DATE

QUALITY PRINT, INC., BROOKLYN 17, N. Y. STOCK NO. 645 — IMPRESSION

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	2	58

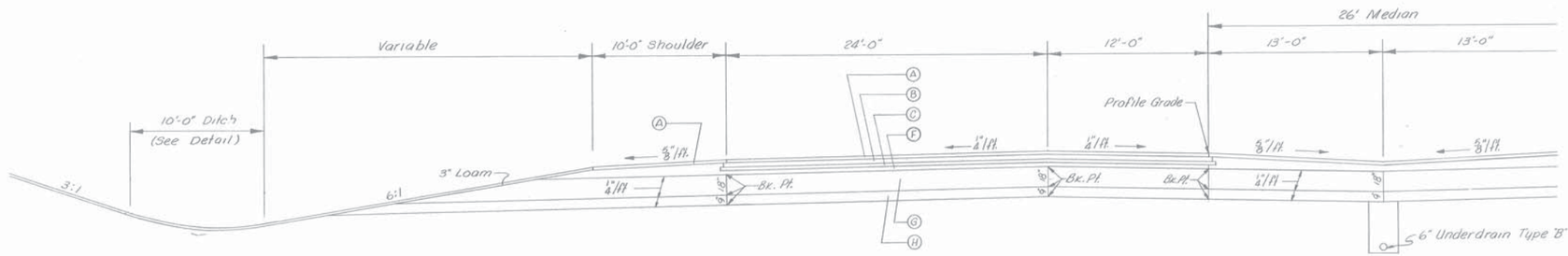


8' SHOULDER

Aggregate Base Course - Crushed = ~~26.00~~ 28.50 C.Y./100 L.F.
18" Aggregate Subbase Course - Gravel = ~~79.57~~ C.Y./100 L.F. 78.58
9" Aggregate Subbase Course - Granular = ~~54.36~~ 53.05 C.Y./100 L.F.

VARIABLE WIDTH PAVEMENT

4" Aggregate Base Course - Crushed = 1.23 C.Y./Ft. of width/100 L.F.
18" Aggregate Subbase Course - Gravel = 5.56 C.Y./Ft. of width/100 L.F.
9" Aggregate Subbase Course - Granular = 2.78 C.Y./Ft. of width/100 L.F.



10' SHOULDER

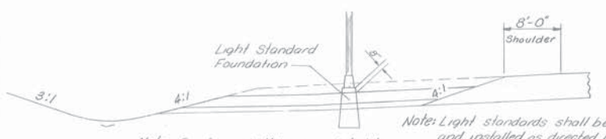
Aggregate Base Course - Crushed = 31.99 C.Y./100 L.F.
18" Aggregate Subbase Course - Gravel = ~~101.88~~ C.Y./100 L.F. ~~94.44~~
9" Aggregate Subbase Course - Granular = 77.62 C.Y./100 L.F.

36' PAVEMENT

4" Aggregate Base Course - Crushed = 44.00 C.Y./100 L.F.
18" Aggregate Subbase Course - Gravel = 200.00 C.Y./100 L.F.
9" Aggregate Subbase Course - Granular = 100.00 C.Y./100 L.F.

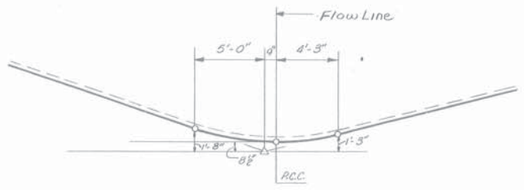
26' MEDIAN

Aggregate Base Course - Crushed = 69.68 C.Y./100 L.F.
18" Aggregate Subbase Course - Gravel = 144.44 C.Y./100 L.F.
9" Aggregate Subbase Course - Granular = 72.22 C.Y./100 L.F.



Note: Grading shall be completed to the top of the Agg. Subbase Crse.-Gravel as indicated on the plans for ultimate design. Also, paving shall be constructed as indicated.

Note: Light standards shall be located and installed as directed by the Engineer. All light standard foundations located to the left of centerline shall be installed with an 8" reveal above the top of the Agg. Subbase Crse.-Gravel.



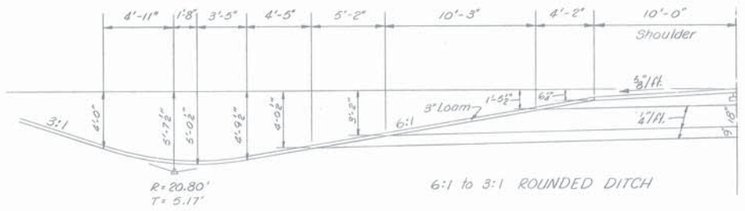
4:1 to 3:1 PARABOLIC DITCH

BITUMINOUS MATERIALS

LOCATION	ITEM NO.	DESCRIPTION	NO. OF LAYERS	TOTAL THICK.	WIDTH	GRADATION DESIGNATION	ASPHALT % OF MIX	COMP. NOTES
(A)	403.09	Hot Bituminous Pavement	1	1 1/4"	Varies	C	7.0	1,2
	403.07	" " "	1	1 3/4"	Varies	B	5.5	1,2
(B)	301.08	Plant Mix Bituminous Base Course	2	4"	Varies	A	5.0	1,2
(C)	310.11	Bituminous Stabilized Base	1	3"	Varies	Item 703.17	4.0	2,5

AGGREGATE MATERIALS

(F)	304.09	Aggregate Base Course-Crushed		4"				
(G)	304.10	Aggregate Subbase Course-Gravel		18"				
(H)	304.11	Aggregate Subbase Course-Granular		9"				



6:1 to 3:1 ROUNDED DITCH

SURFACE TREATMENT of ACCESS ROAD

The bituminous treatment of the access road shall consist of a Prime Coat of RT-5, Item 410.13 and Cover Coat Material-Sand, Item 410.16 (if required) followed by a Seal Coat of RT-6, Item 410.13 and Cover Coat Material-Sand, Item 410.16.

The use of rollers as specified in subsection 405.05 and 410.05 may be substituted by adequate rolling in accordance with subsection 411.04.

COMPLIMENTARY NOTES

1. The bituminous binder material for the mixture shall be Penetration Grade (85-100) asphalt cement and will be paid for seperately under Item 403.14.
2. The asphalt contents shown are to serve as a guide only and are not specifications.
3. Mixtures meeting the aggregate gradation of "B" or "C" above may be used for the bottom layer with payment to be made under Item 403.12.
4. The density requirements are waived.
5. The type of bituminous material shall conform to the option provided in subsection 310.03 of the Standard Specifications.
6. When directed by the Engineer, this course may be placed in one layer.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

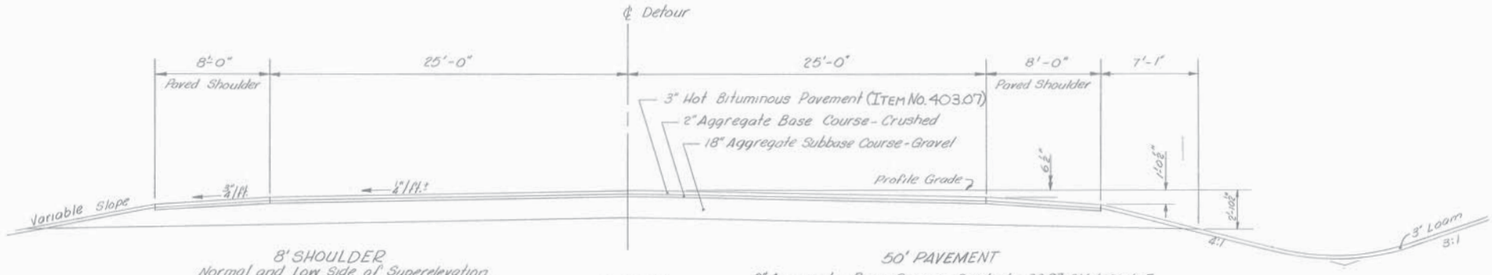
TYPICAL SECTION
I-95

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

BRUNING 44-303

YORK 16

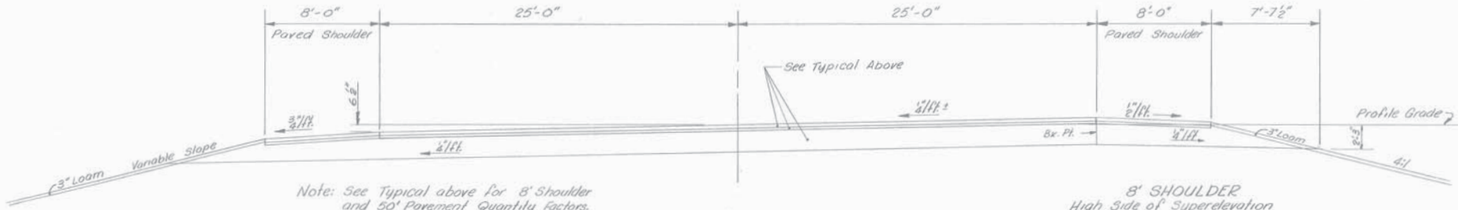
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	3	58



8' SHOULDER
Normal and Low Side of Superelevation
Aggregate Subbase Course - Gravel = ~~38.17~~ 38.17 C.Y./100 L.F.
2" Aggregate Base Course - Crushed = 4.94 C.Y./100 L.F.

DETOUR
Normal Section

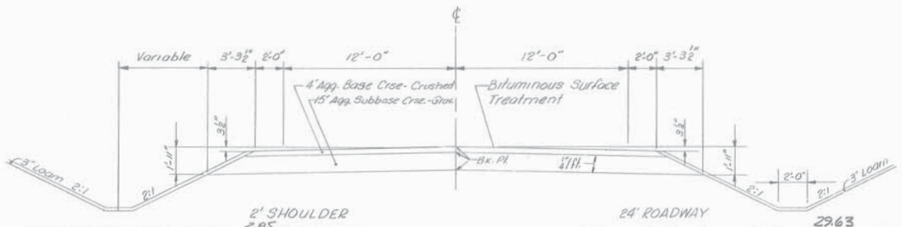
50' PAVEMENT
2" Aggregate Base Course - Crushed = 30.87 C.Y./100 L.F.
18" Aggregate Subbase Course - Gravel = 277.78 C.Y./100 L.F.



Note: See Typical above for 8' Shoulder and 50' Pavement Quantity Factors.

DETOUR
Superelevated Section

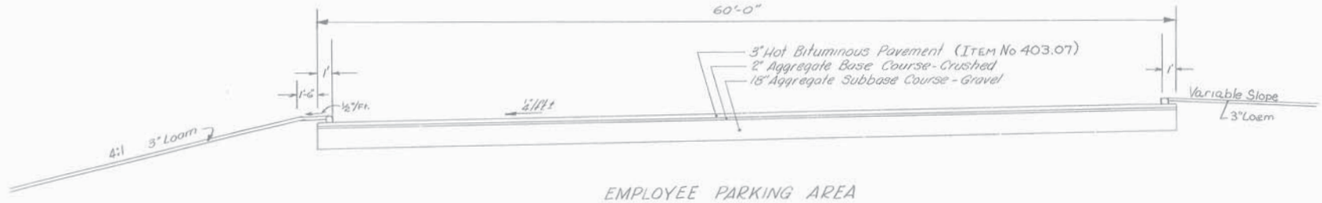
8' SHOULDER
High Side of Superelevation
Aggregate Subbase Course - Gravel = 38.17 C.Y./100 L.F.
2" Aggregate Base Course - Crushed = 4.94 C.Y./100 L.F.



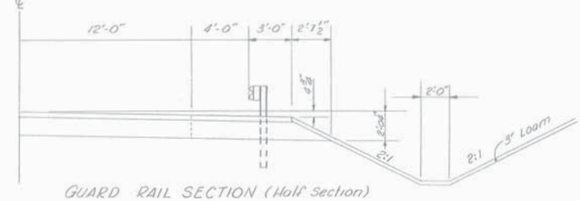
2' SHOULDER
6" Aggregate Base Course - Crushed = ~~2.41~~ 2.85 C.Y./100 L.F.
15" Aggregate Subbase Course - Gravel = ~~17.30~~ 18.36 C.Y./100 L.F.

ACCESS ROAD

24' ROADWAY
4" Aggregate Base Course - Crushed = ~~29.32~~ 29.63 C.Y./100 L.F.
15" Aggregate Subbase Course - Gravel = 111.11 C.Y./100 L.F.



EMPLOYEE PARKING AREA



GUARD RAIL SECTION (Half Section)

7' Shoulder - Low Side of Superelevation
4" Aggregate Base Course - Crushed = 8.56 C.Y./100 L.F.
15" Aggregate Subbase Course - Gravel = 19.29 C.Y./100 L.F.

7' Shoulder - High Side of Superelevation
4" Aggregate Base Course - Crushed = 8.56 C.Y./100 L.F.
15" Aggregate Subbase Course - Gravel = 19.29 C.Y./100 L.F.

Note: The 7' high side shoulder shall be grade at 4"/Ft. slope up and the subgrade at 4"/Ft. slope up.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TYPICAL SECTION

DETOUR, ACCESS Rd. & PARK AREA

YORK (8)

R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	4	58

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.11	Clearing	11.46	Acre
201.12	Selective Clearing and Thinning	7.342	Acre
202.16	Removal of Existing Kittery Toll Plaza	1	L.S.
203.20	Common Excavation	28,697	C.Y.
203.24	Common Borrow	47,040	C.Y.
203.25	Granular Borrow		C.Y.
206.06	Structural Earth Excavation - Drainage and Minor Structures	877	C.Y.
206.07	Structural Rock Excavation - Drainage and Minor Structures	15.5	C.Y.
301.08	Plant Mix, Bit. Base Course - Grading A	7,617.97	Ton
301.12	Asphalt Cement, Base Course	396.19	Ton
304.09	Aggregate Base Course - Crushed	3566	C.Y.
304.10	Aggregate Subbase Course - Gravel	1580.143	C.Y.
304.11	Aggregate Subbase Course - Granular	9812	C.Y.
310.11	Bituminous Stabilized Base Course (3 inches)	32,130	S.Y.
403.07	Hot Bituminous Pavement, Grading B	6,924.90	Ton
403.09	Hot Bituminous Pavement, Grading C (Crushed Ledge)	2,358.28	Ton
403.121	Hot Bituminous Pavement, Grading E (Shimming)	882.20	Ton
403.14	Asphalt Cement, Hot Bituminous Surface Pavements	637.16	Ton
410.13	Tar, Applied	2714	Gal.
410.16	Cover Coat Material, Sand	98.6	C.Y.
501.21	Steel H-Beam Piles 42 lb./ft.	14,527.50	L.F.
501.21	Steel H-Beam Piles 42 lb/ft Cut-offs	460	L.F.
603.155	12 inch Reinforced Concrete Pipe Class III	166	L.F.
603.172	18 inch Bituminous Coated Corr. Metal Pipe	44	L.F.
603.245	54 inch Reinforced Concrete Pipe Class III	80	L.F.
604.09	Catch Basin Type B-1	2	Each
605.09	6 inch Underdrain Type B	1524	L.F.
606.17	Guard Rail Type 3b - Single Rail		L.F.
606.22	Guard Rail Type 3b - Circular - Greater than 15 Foot Radius		L.F.
606.26	Terminal Ends - Single Rail		Each
607.09	Woven Wire Fence - Metal Posts	4407	L.F.
607.32	Bracing Assembly, Type I - Metal Posts	4	Each
607.33	Bracing Assembly, Type II - Metal Posts	6	Each
609.32	Curb Type 3a	330.5	L.F.
610.09	Hand Laid Riprap	15.6	C.Y.
610.12	Portland Cement for Riprap Grout		Bbl.
612.06	Bituminous Hand Sealing - Black	37	S.Y.
615.07	Loam	3556	C.Y.
616.08	Sodding	369	S.Y.
617.10	Erosion Control Mesh (Heavy Duty)	19	S.Y.
618.14	Seeding, Method Number 2	331	Unit
619.08	Hay Mulch	25.15	Ton
623.06	Right of Way Monuments	8	Each
* 629.05	Hand Labor, Straight Time	156.5	M.Hr.
630.06	Traffic Officers	254	M.Hr.
* 631.09	Aerator (Including operator)		Hour
* 631.10	Air Compressor (Including operator)	39	Hour
* 631.11	Air Tool (Including operator)	39	Hour
* 631.12	All Purpose Excavator (Including operator)	1	Hour
* 631.13	Bulldozer (Including operator)	3.5	Hour
* 631.14	Grader (Including operator)	2	Hour
* 631.172	Truck - Large (Including operator)		Hour
* 631.22	Front End Loader (inc. operator)	9.5	Hour
632.08	Warning Lights	4	Group
633.09	Portable Barricade	4	Each
633.10	Portable Barricade with Flashing Lights	4	Each
633.12	Portable Barricades Remove and Reset	4	Each
633.13	Portable Barricades with Flashing Lights Remove and Reset	4	Each
634.16	Highway Lighting	1	L.S.
634.171	Junction Box, Type A	7	Each
634.18	Steel Conduit	285	L.F.
634.19	Non-metallic Conduit	4790	L.F.
636.06	Reflectorization of Bit. Concrete	9.19	S.Y.
637.07	Sprinkling	8.4	M.G.
637.08	Calcium Chloride	1.85	Ton
639.08	Field Office, Type A	1	Each
639.11	Testing Facilities, Soil	1	L.S.
639.12	Testing Facilities, Bituminous Mixes	1	L.S.
639.13	Testing Facilities, Bituminous Liquids and Cements	1	L.S.
650.07	Mineral Filler		Ton
650.08	Hydrated Lime		Ton
804.03	Toll Plaza Construction	1	L.S.
804.04	Toll Booth and Canopy Construction	1	L.S.

* UNDETERMINED LOCATION

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
916.04	Utility Building and Mechanical Work	1	L.S.
916.05	Drilling Water Well	133	L.F.
916.06	Septic Tank and Filter Bed	1	L.S.
917.06	Guaranty - Warranty	1	L.S.
918.05	Utility Service Lines	1	L.S.
EWO #2	Electrical Service	1	L.S.
EWO #5	12" CMP	90	L.F.
EWO #10	Exhaust Fan	1	L.S.
EWO #14	Telephone Booth Base Lt	1	L.S.
EWO #15	PCC Sidewalk	1	L.S.
EWO #18	Tack Coat	973	Gal
EWO #19	Telephone Booth Base Rt	1	L.S.
EWO #22	Insulate Storage Tank	1	L.S.
EWO #23	Temporary Traffic Control	1	L.S.
EWO #20	Day Tank	1	L.S.
304.10	ASC Gravel for Foundations	15.07	C.Y.

SUMMARY OF EXCAVATION AND BORROW

COMMON EXCAVATION FOR ESTIMATE

Common Excavation (From cross sections)	12,385
Grubbing in fill Sections	11,876
Total Common Excavation	24,261 Cubic Yards

FILL FOR COMMON BORROW CALCULATIONS

Fill (from cross sections)	37,570
Grubbing (fill areas) see Granular Computations	
Total Fill	37,570 Cubic Yards

AVAILABLE COMMON EXCAVATION FOR COMMON BORROW CALCULATIONS

Total Common Excavation	24,261 Cubic Yards
Deductions:	
Grubbing in Cut Areas	5,525
Grubbing in Fill Areas	11,876
Total Deductions	17,401 Cubic Yards
Total Available Common Excavation	6,860 Cubic Yards

COMPUTATIONS OF COMMON BORROW FOR ESTIMATE

Total Fill	37,570 Cubic Yards
Total Available Common Excavation 6,860 x 0.85	5,831
Total Fill Minus Total Available Common	31,739
Total Common Borrow 31,739 X 1.15	36,500 Cubic Yards

COMPUTATIONS OF GRANULAR BORROW FOR ESTIMATE

Grubbing in Fill Areas	11,876
Granular to Upgrade Excav.	5,515
Total Gran. Fill	17,391 Cubic Yards
Total Granular Borrow 17,391 x 1.15	20,000 Cubic Yards

2004 2080

DRAINAGE

STATION	RCP			BCCMP		CMP		CULVERT PIPE		CATCH BASINS						MAN HOLES	UNDERDRAINS				REMARKS
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1	A2	B1	B2	C1	C2	E	'B' LENGTH	'C' SIZE	'C' LENGTH	'B' OUTLET LENGTH	
Sta 254+00 to Sta 255+98																	198				
Sta 256+00 Lt.	12"	92'	III																		
Sta 256+00												1									
Sta 256+02 to Sta 256+12																	10				
Sta 272+61 Lt.	54"	48'	III																		
Sta 272+61 Rt.	54"	32'	III																		
Sta 272+70 to Sta 274+45																	175				
Sta 274+47 Rt.												1									
Sta 274+49 to Sta 280+00																	551				
Sta 262+00, Access Road				18"	44'																
Sta 265+ Detour Road				12"	96'																

DRAINAGE CONT'D.

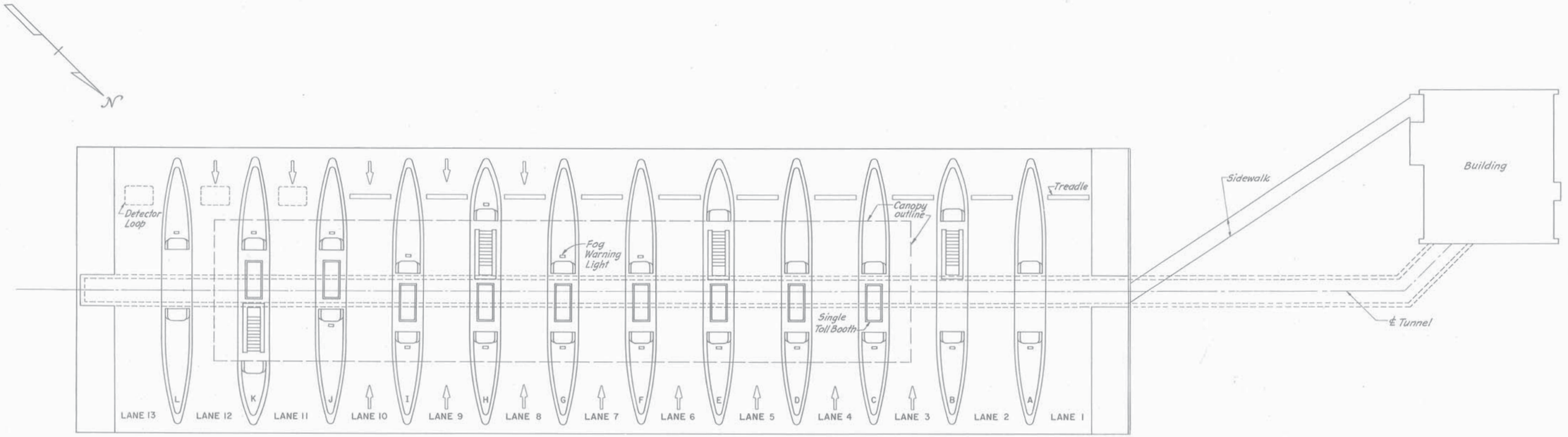
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	5	58

STATION	RCP			BCCMP		CMP		CULVERT PIPE		CATCH BASINS						MAN HOLES	UNDERDRAINS				REMARKS
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1	A2	B1	B2	C1	C2	E	'B' LENGTH	'C' SIZE	'C' LENGTH	'B' OUTLET LENGTH	

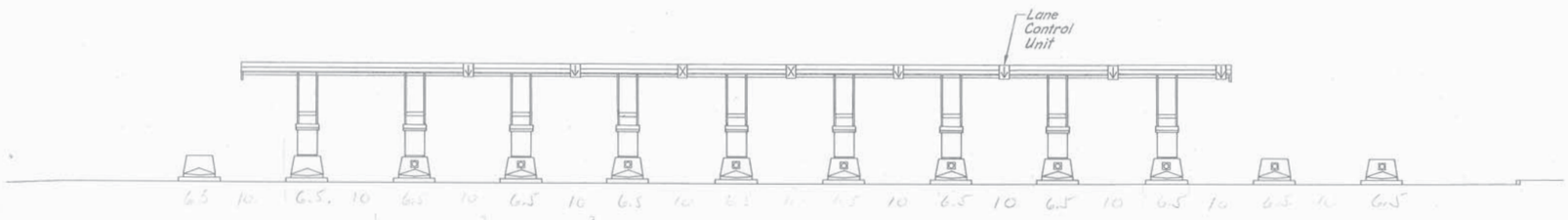
GENERAL NOTES

1. The utilities involved in this contract are: Central Maine Power Company and New England Telephone and Telegraph Company.
2. All utilities are to be adjusted by the respective utilities unless noted.
3. Removal or abandonment of any existing drainage must be first approved by the Engineer.
4. All catch basins to be abandoned shall be filled with suitable aggregate material as directed by the Engineer. Proper compaction shall be employed to reduce future settlement. Prior to filling with aggregate material, all pipe and underdrains shall be sealed with a cement plug.
5. The normal grubbing width in fills is determined by the intersection of a one to one slope from the shoulder berm and the existing ground or as show on the cross sections. When the height of fill is two feet or less, the grubbing width shall be extended to the intersection of the side slope and the old ground.
6. Clearing limits shall be 15' outside of and parallel to the construction slope limit line or as shown, except on the Access Road it shall be 5' outside of and parallel to the construction slope limit line.
8. Selective clearing shall be performed between the clearing limits and Right of Way Lines or selective clearing and thinning lines as shown on the plans.
9. The loam, seed and hay mulch notes shown apply as a general guide. In all cases the Engineer has the final authority as to the placement of these items.
10. Hay mulch and asphalt binder shall be applied to all areas seeded with method no. 2.
11. All reinforced concrete pipe shall be class III unless otherwise noted on the plans.
12. All ditch elevations shown on cross sections are to the top of loam.
13. The use of Portland Cement for riprap grout shall be restricted to specific installations as directed by the Engineer.
14. All existing headwalls to be removed shall be paid for under Item 206.07 Structural Rock Excavation - Drainage and Minor Structures.
15. The contractor shall be responsible for maintaining all traffic signs required for the construction until completion of the contract.

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	8	17	58



PLAN



NORTH ELEVATION

YORK BARRIER TOLL PLAZA

$\frac{3}{32}$" = 1'-0"

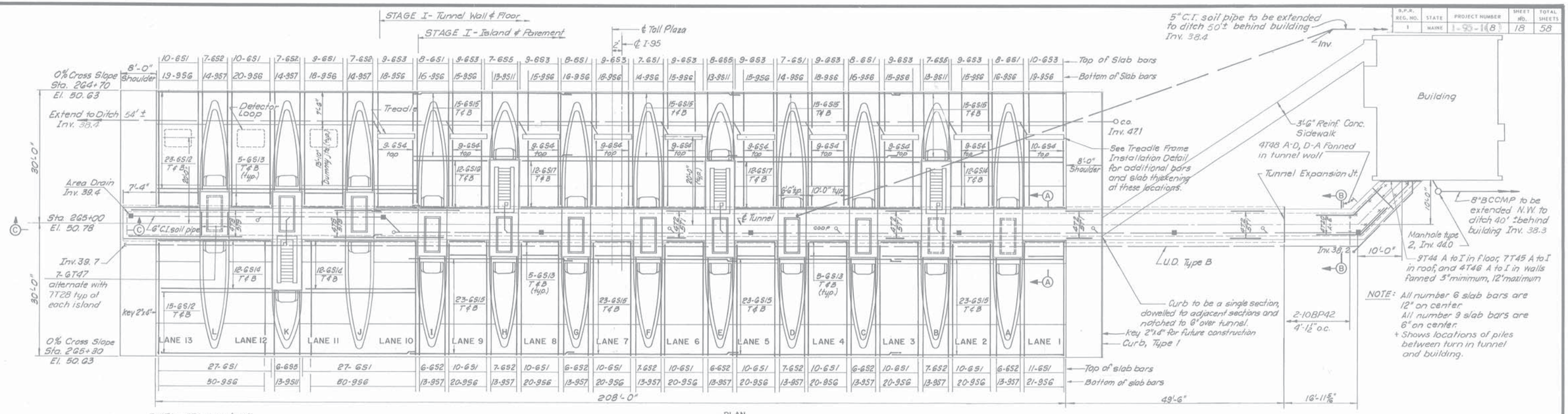
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

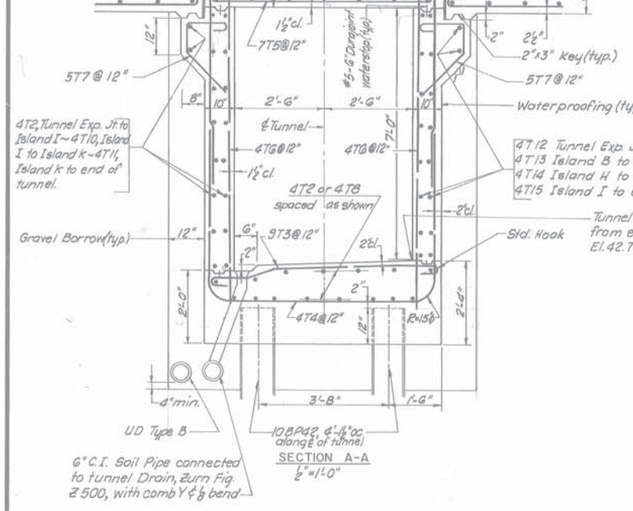
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

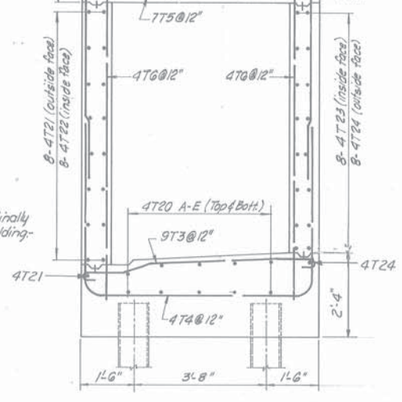
TOLL BOOTHS & CANOPY
PLAN & ELEVATION

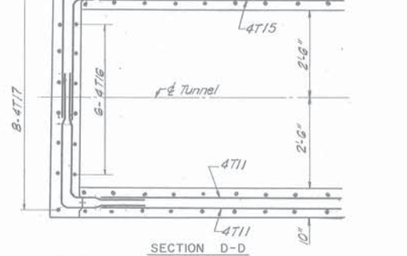
(8)

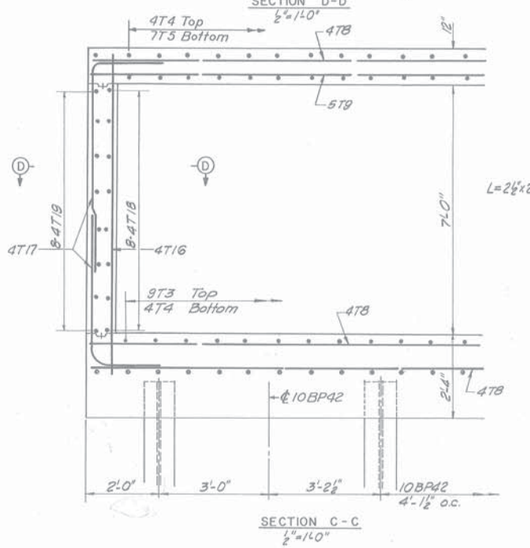
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	18	58

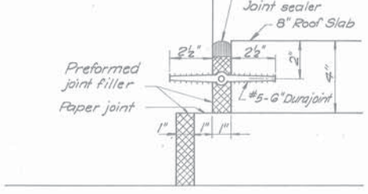


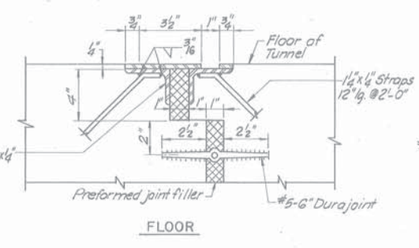


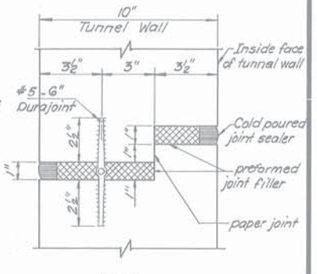












DETAILS OF TUNNEL EXPANSION JOINT
3"=1'-0"

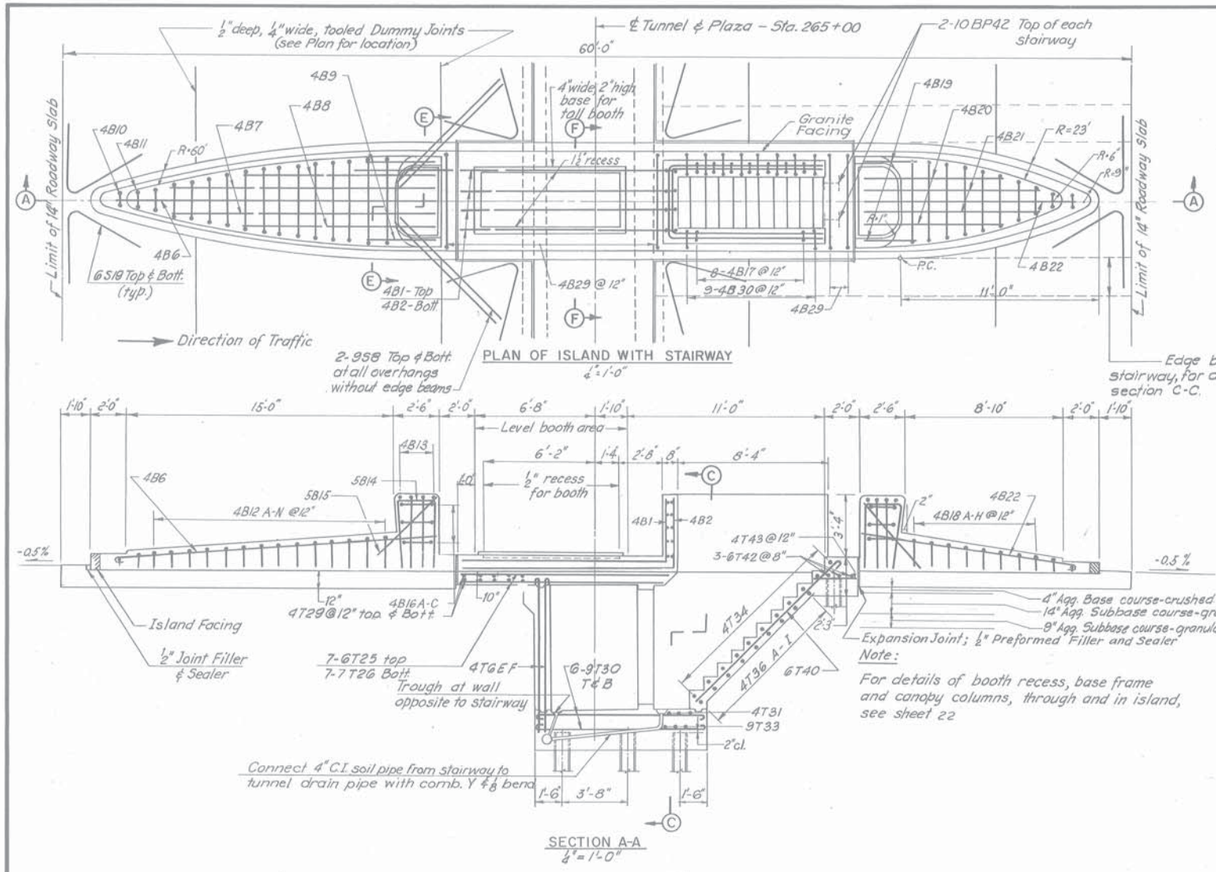
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

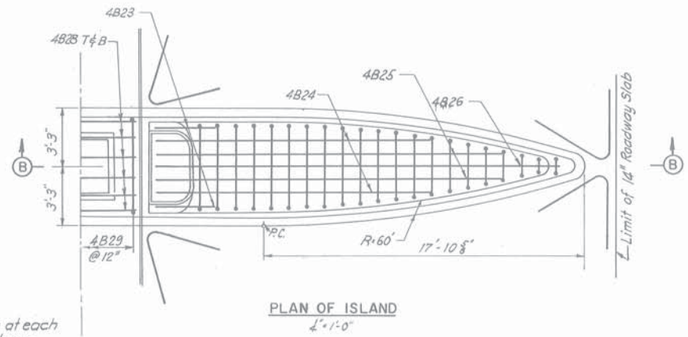
TOLL PLAZA
PLAN & TUNNEL DETAILS

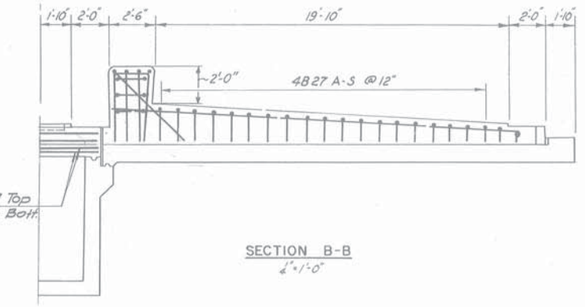
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

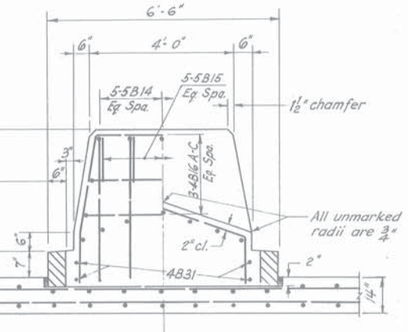
(8)

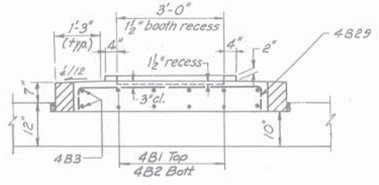
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	19	58

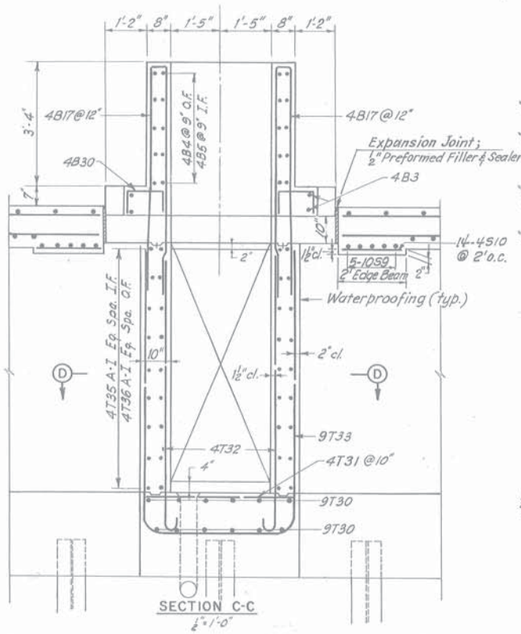


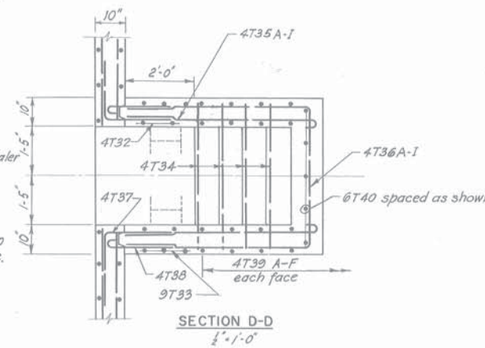


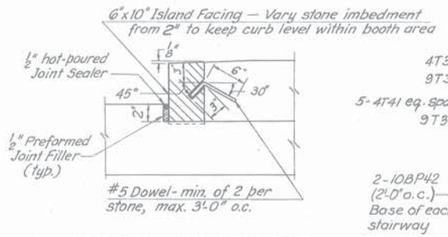


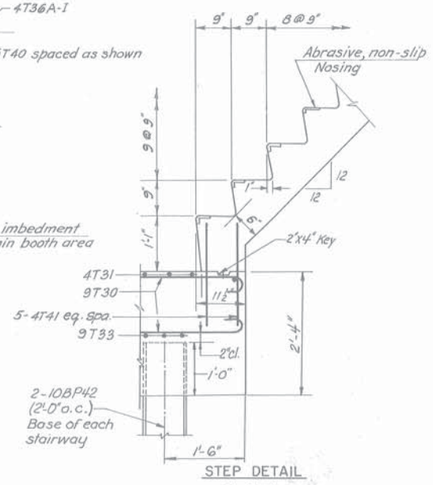












BAR MARK	NO.	LENGTH	TYPE	A	B	C
5T1	35	42'-9"	STR			
4T2	200	42'-6"	STR			
9T3	290	8'-10"	12	6'-4"	1'-3"	
4T4	534	16'-6"	1	6'-4"	5'-1"	5'-1"
7T5	219	8'-0"	12	6'-4"	0'-10"	
4T6	592	9'-6"	3	9'-0"	0'-6"	
5T7	516	4'-4"	6			
4T8	44	30'-0"	STR			
5T9	14	30'-1"	STR			
4T10	18	20'-2"	STR			
4T11	18	34'-7"	STR			
4T12	36	39'-6"	STR			
4T13	36	46'-4"	STR			
4T14	18	28'-2"	STR			
4T15	36	29'-8"	STR			
4T16	6	9'-0"	STR			
4T17	16	6'-3"	2	5'-0"	1'-3"	
4T18	16	5'-0"	2	3'-4"	1'-8"	
4T19	16	5'-9"	2	3'-9"	2'-0"	
4T20	20	27'-1"	11	16'-0"	11'-1"	
A-E	4 ea.	34'-9"		17'-8"	17'-1"	
4T21	10	36'-6"	11	18'-1"	18'-5"	
4T22	8	35'-9"	11	17'-11"	17'-10"	
4T23	8	25'-11"	11	15'-8"	10'-3"	
4T24	10	25'-2"	11	15'-6"	9'-8"	
6T25	28	12'-0"	STR			
7T26	28	11'-6"	STR			
6T27	56	10'-9"	STR			
7T28	56	10'-9"	STR			
4T29	120	7'-3"	12	6'-3"	0'-6"	
9T30	48	11'-10"	12	9'-4"	1'-3"	
4T31	16	4'-2"	STR			
4T32	16	8'-7"	3	8'-1"	0'-6"	
9T33	24	20'-4"	1	4'-2"	8'-1"	8'-1"
4T34	44	4'-2"	STR			
4T35	72	2'-9"	3	2'-3"	0'-6"	
A-I	8 ea.	8'-11"		8'-5"	0'-6"	
4T36	36	8'-6"	1	4'-0"	2'-3"	2'-3"
A-I	4 ea.	20'-10"		4'-0"	8'-5"	8'-5"
4T37	72	3'-8"	2	1'-10"	1'-10"	
4T38	72	2'-4"	3	1'-10"	0'-6"	
4T39	96	2'-0"	3	1'-6"	0'-6"	
A-F	16 ea.	7'-0"		6'-6"	0'-6"	
6T40	20	11'-11"	3	11'-3"	0'-8"	
4T41	40	2'-0"	STR			
6T42	12	7'-6"	12	6'-2"	0'-8"	
4T43	28	3'-3"	12	2'-3"	0'-6"	
9T44	9	8'-10"	12	6'-4"	1'-3"	
A-I	1 ea.	11'-5"		8'-11"	1'-3"	
7T45	9	8'-0"	12	6'-4"	0'-10"	
A-I	1 ea.	10'-7"		8'-11"	0'-10"	
4T46	18	16'-4"	1	6'-4"	5'-0"	5'-0"
A-I	2 ea.	18'-11"		8'-11"	5'-0"	5'-0"
6T47	84	7'-8"	12	6'-4"	0'-8"	
4T48	16	16'-4"	1	6'-4"	5'-0"	5'-0"
A-D	4 ea.	16'-9"		6'-9"	5'-0"	5'-0"

Note: First number of bar mark denotes bar size.

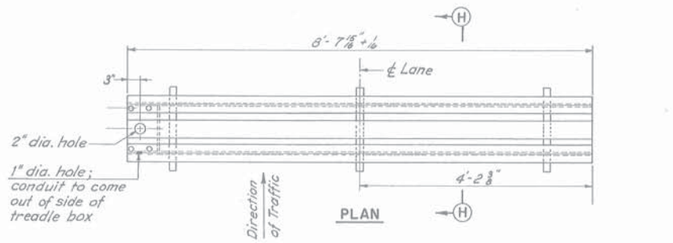
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

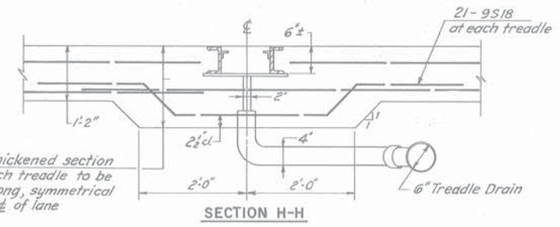
TOLL PLAZA ISLAND & TUNNEL DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

(8)

BPR REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-93-1(8)	20	58

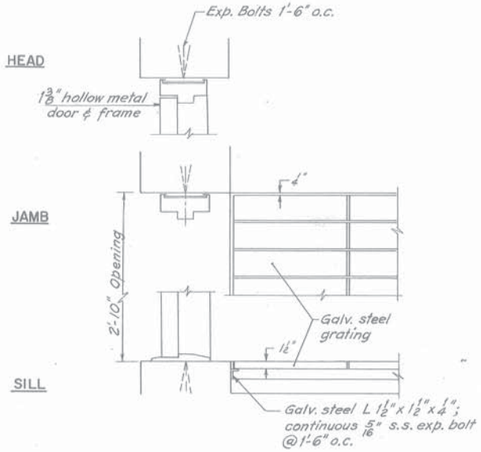




8 FT. TREADLE FRAME INSTALLATION

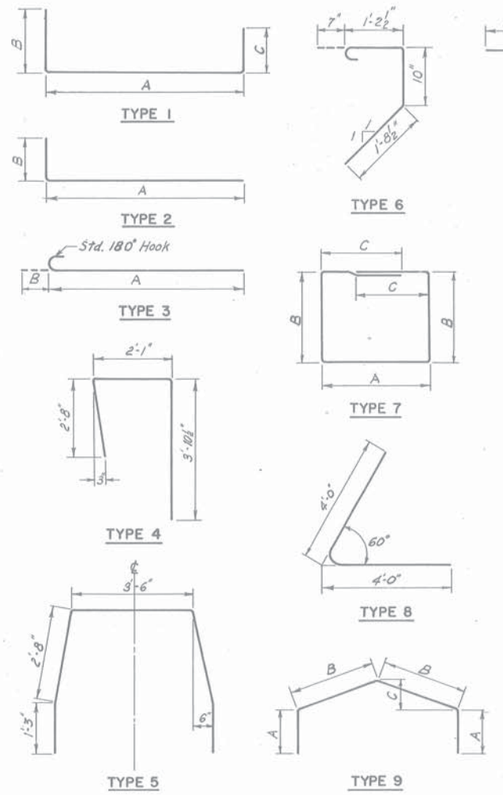
No scale

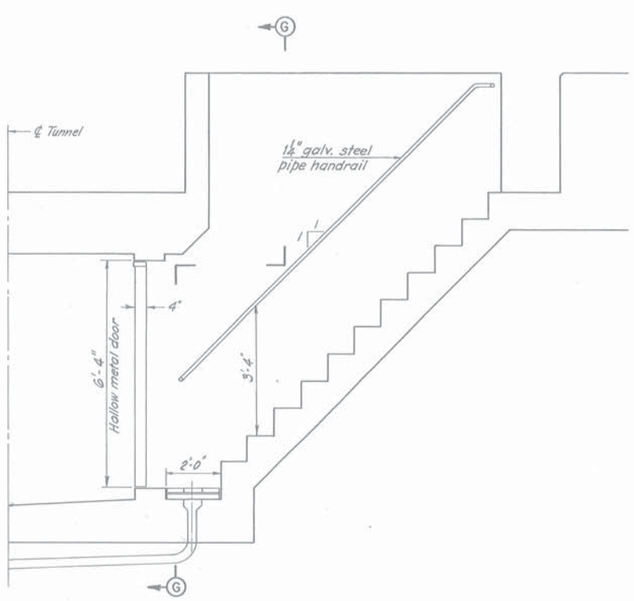
Treadle frame to be as manufactured by Taller & Cooper #TC-208 or approved equal. Dimension for drain and electrical connection to be verified with frame manufacturer.

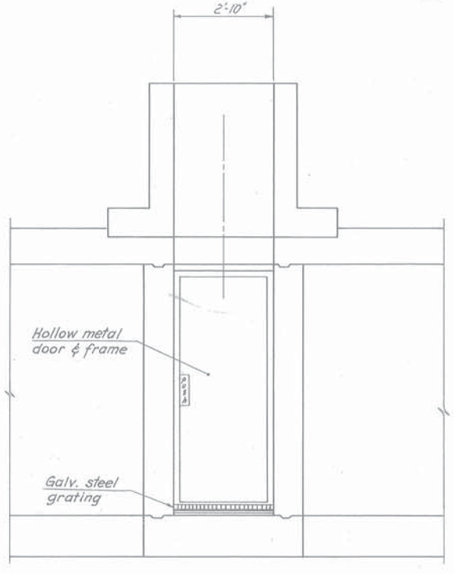


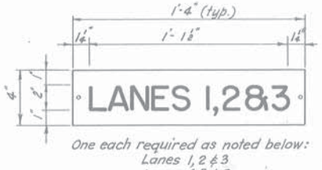
TUNNEL DOOR DETAILS

½" = 1'-0"









One each required as noted below:
Lanes 1, 2 & 3
Lanes 4, 5 & 6
Lanes 7, 8 & 9
Lanes 10, 11, 12 & 13

Black bakelite name plate with 2" white letters engraved to be placed on tunnel side of door.

BAKELITE SIGN DETAIL

No scale

BAR MARK	NO.	LENGTH	TYPE	A	B	C
6S1	220	27'-1"	3	26'-4½"	0'-8½"	
6S2	79	22'-9"	3	22'-0½"	0'-8½"	
6S3	91	9'-1"	STR.			
6S4	91	16'-6"	3	15'-9½"	0'-8½"	
6S5	28	14'-11"	STR.			
9S6	593	27'-8"	3	26'-4½"	1'-3½"	
9S7	159	23'-4"	3	22'-0½"	1'-3½"	
9S8	96	8'-0"	STR.			
10S9	40	27'-10"	3	26'-4½"	1'-5½"	
4S10	112	1'-8"	STR.			
9S11	52	14'-11"	STR.			
6S12	76	59'-4"	STR.			
6S13	130	9'-9"	STR.			
6S14	72	26'-3"	STR.			
6S15	304	39'-1"	STR.			
6S16	24	18'-5"	STR.			
6S17	48	32'-9"	STR.			
9S18	210	8'-3"	10			
6S19	192	8'-0"	8			
4B1	16	15'-1"	2	11'-8"	3'-5"	
4B2	16	15'-10"	2	12'-1"	3'-9"	
4B3	16	22'-0"	STR.			
4B4	20	21'-5"	1	3'-11"	8'-9"	8'-9"
4B5	20	19'-9"	1	3'-1"	8'-4"	8'-4"
4B6	12	18'-6"	3	18'-0"	0'-6"	
4B7	24	15'-0"	3	14'-6"	0'-6"	
4B8	24	11'-0"	3	10'-6"	0'-6"	
4B9	24	4'-6"	3	4'-0"	0'-6"	
4B10	24	1'-10"	1	0'-10"	0'-6"	0'-6"
4B11	24	2'-4"	1	1'-4"	0'-6"	0'-6"
4B12	168	3'-0"	9	0'-10"	0'-8½"	0'-0½"
A to N	12ea.	7'-4"		1'-2"	2'-6"	1'-0"
4B13	96	11'-4"	5			
5B14	120	8'-8"	4			
5B15	120	5'-0"	STR.			
4B16	72	12'-4"	7	3'-6"	2'-0"	2'-5"
A to C	24ea.	13'-8"		4'-4"	1'-10"	2'-10"
4B17	64	13'-3"	1	0'-5"	6'-5"	6'-5"
4B18	32	3'-0"	9	0'-10"	0'-8½"	0'-0½"
A to H	4ea.	7'-4"		1'-2"	2'-6"	1'-0"
4B19	8	3'-6"	3	3'-0"	0'-6"	
4B20	8	8'-0"	3	7'-6"	0'-6"	
4B21	8	10'-3"	3	9'-9"	0'-6"	
4B22	4	12'-6"	3	12'-0"	0'-6"	
4B23	16	4'-0"	3	3'-6"	0'-6"	
4B24	16	16'-0"	3	15'-6"	0'-6"	
4B25	16	20'-0"	3	19'-6"	0'-6"	
4B26	8	23'-3"	3	22'-9"	0'-6"	
4B27	152	3'-0"	9	0'-10"	0'-8½"	0'-0½"
A to S	6ea.	7'-4"		1'-2"	2'-6"	1'-0"
4B28	96	10'-8"	STR.			
4B29	156	6'-3"	1	5'-3"	0'-6"	0'-6"
4B30	72	2'-2"	1	1'-0"	0'-7"	0'-7"
4B31	96	4'-0"	STR.			

Note: First number of bar mark denotes bar size.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

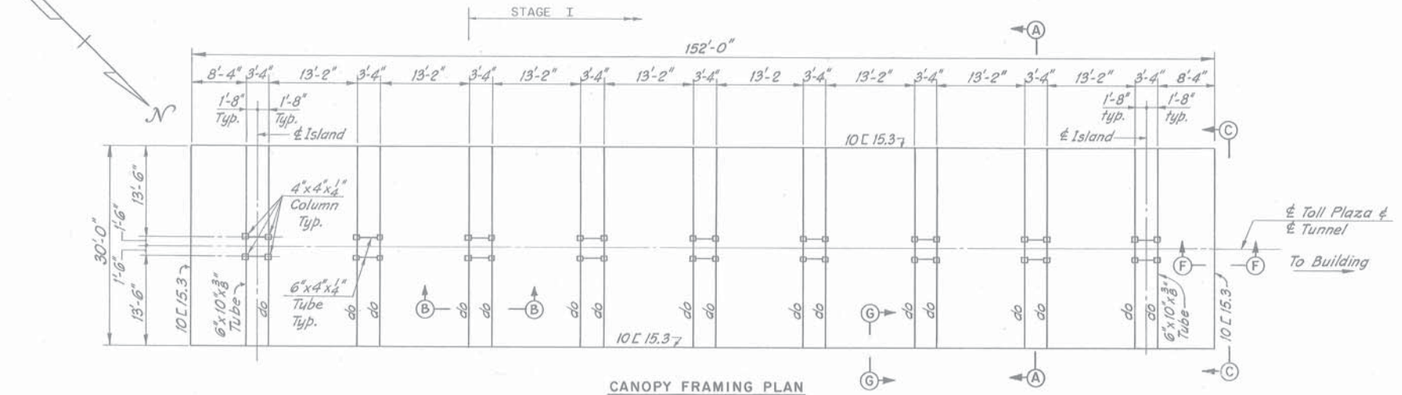
TOLL PLAZA

MISCELLANEOUS DETAILS

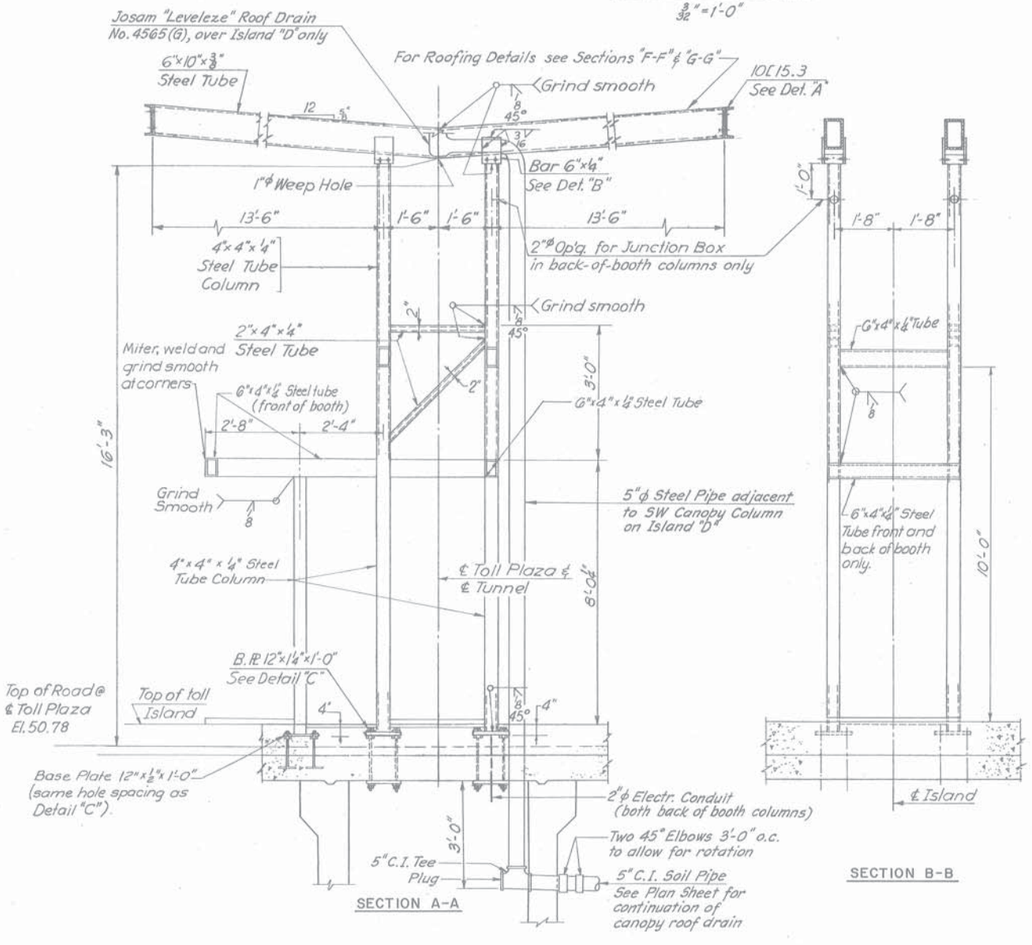
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

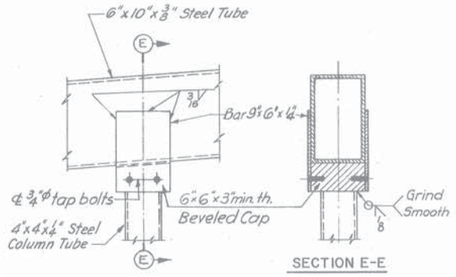
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	[illegible] 18	21	58



CANOPY FRAMING PLAN
3/32" = 1'-0"

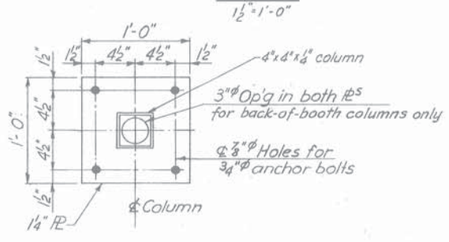


BOOTH & CANOPY FRAMING ELEVATIONS
½" = 1'-0"

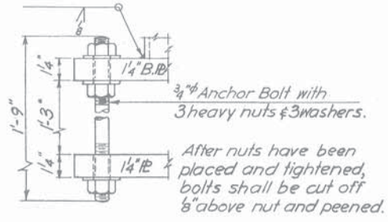


SECTION E-E

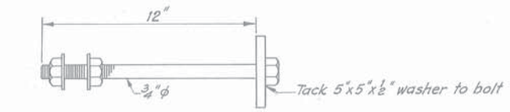
DETAIL "B"
1½" = 1'-0"



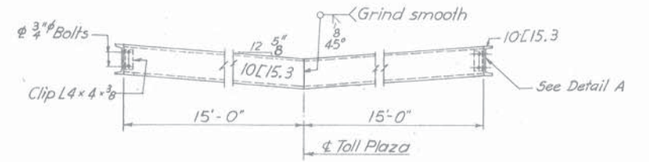
DETAIL "C"
1½" = 1'-0"



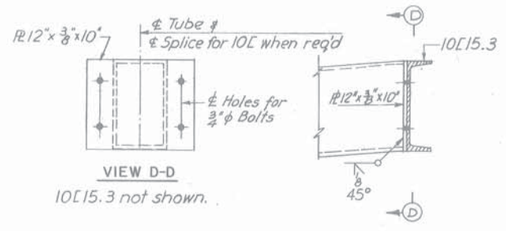
ANCHOR BOLT DETAILS
3" = 1'-0"



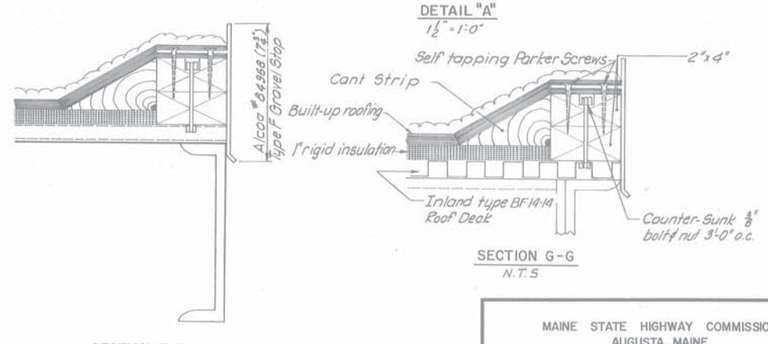
ANCHOR BOLT FOR ½" BASE PLATE
(For booth, front door columns)



VIEW C-C
½" = 1'-0"



VIEW D-D
10[15.3 not shown.



DETAIL "A"
1½" = 1'-0"

SECTION G-G
N.T.S.

SECTION F-F
N.T.S.

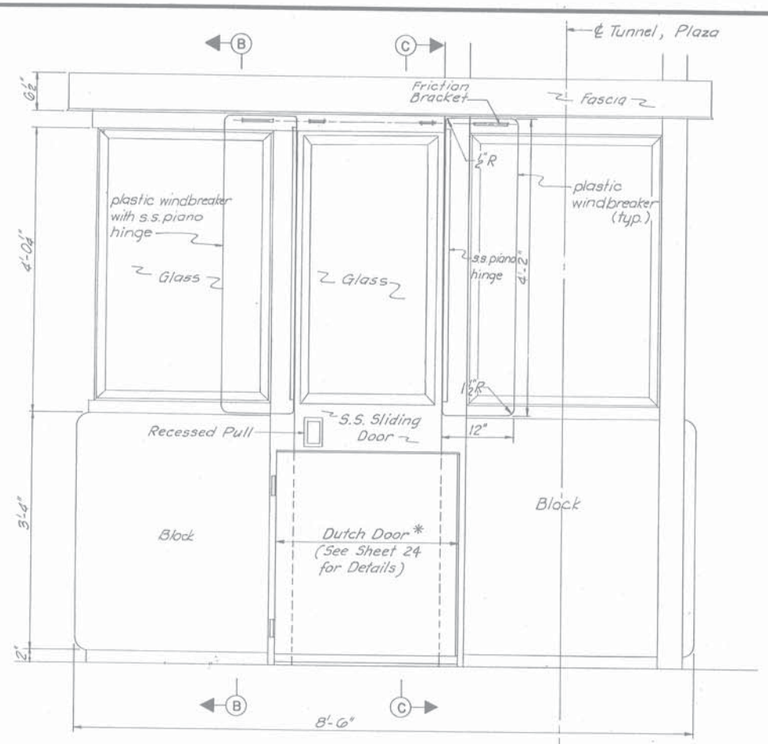
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TOLL BOOTHS & CANOPY FRAMING & DETAILS

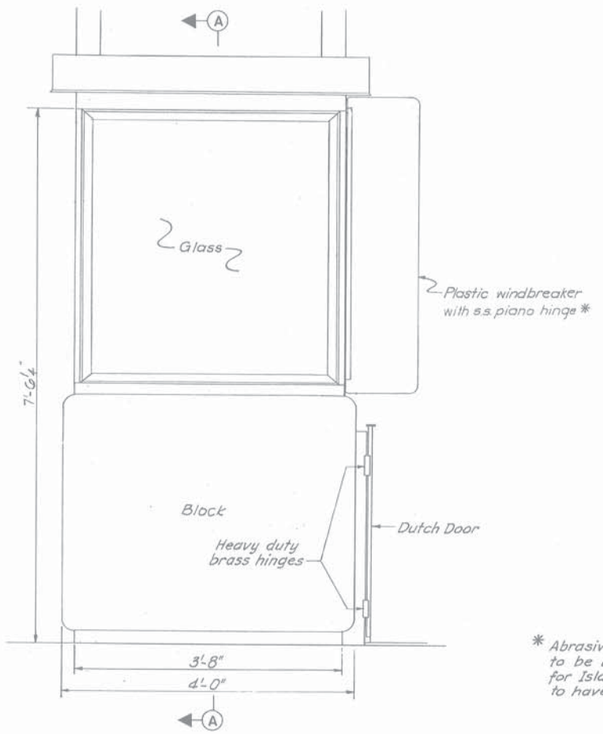
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

FORM (B)

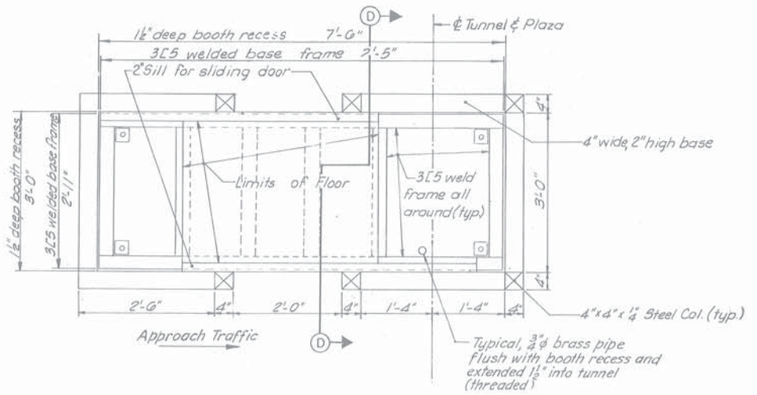
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	22	58



SIDE ELEVATION
1"=1'-0"

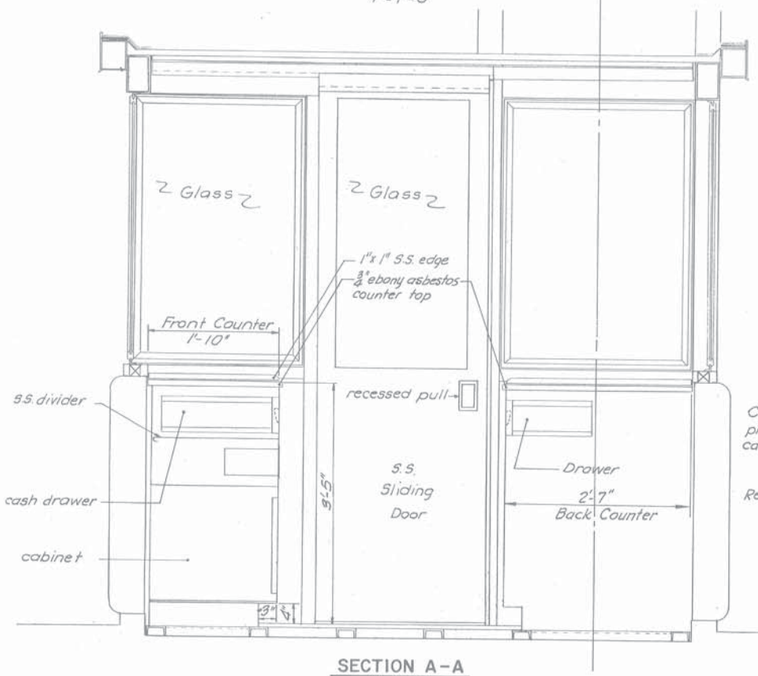


FRONT ELEVATION
1"=1'-0"

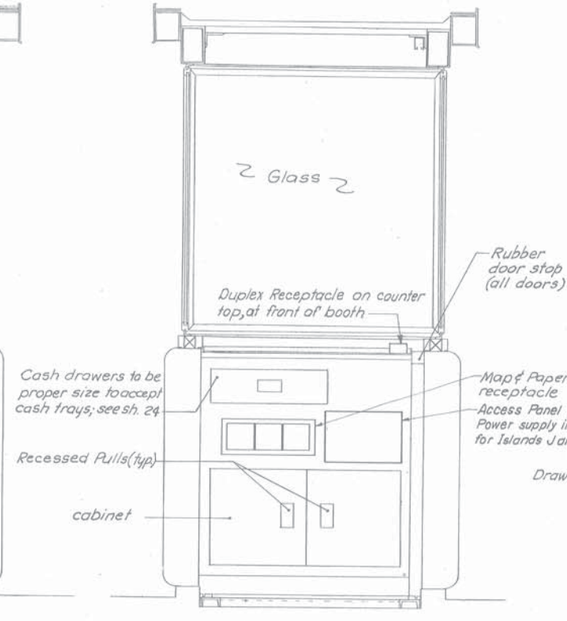


FRAMING PLAN AT BASE OF TOLL BOOTHS
¾"=1'-0"

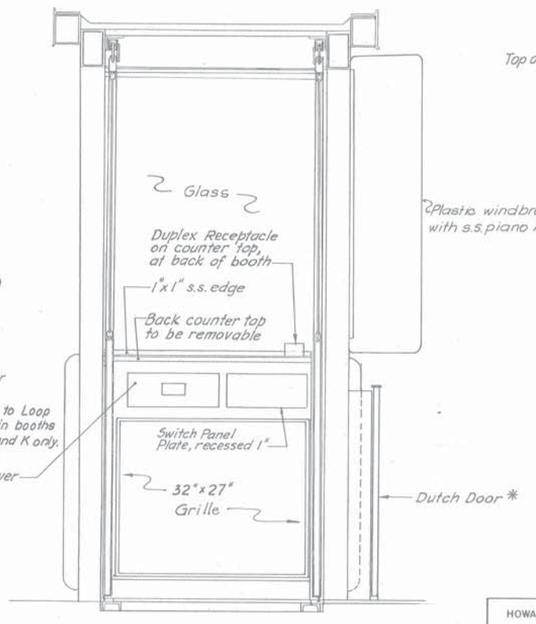
* Abrasive threshold, plastic windbreaker and dutch door to be used only on approach traffic side of booths, for Islands C-F and K; booths on Islands G-J are to have these items at both doors.



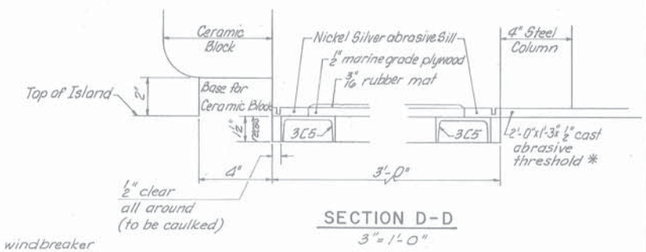
SECTION A-A
1"=1'-0"



SECTION B-B
1"=1'-0"



SECTION C-C
1"=1'-0"



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

NOTES:

1. For details of booth construction see Sheet 23
2. For details of cash tray, map receptacle and dutch door see Sheet 24

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

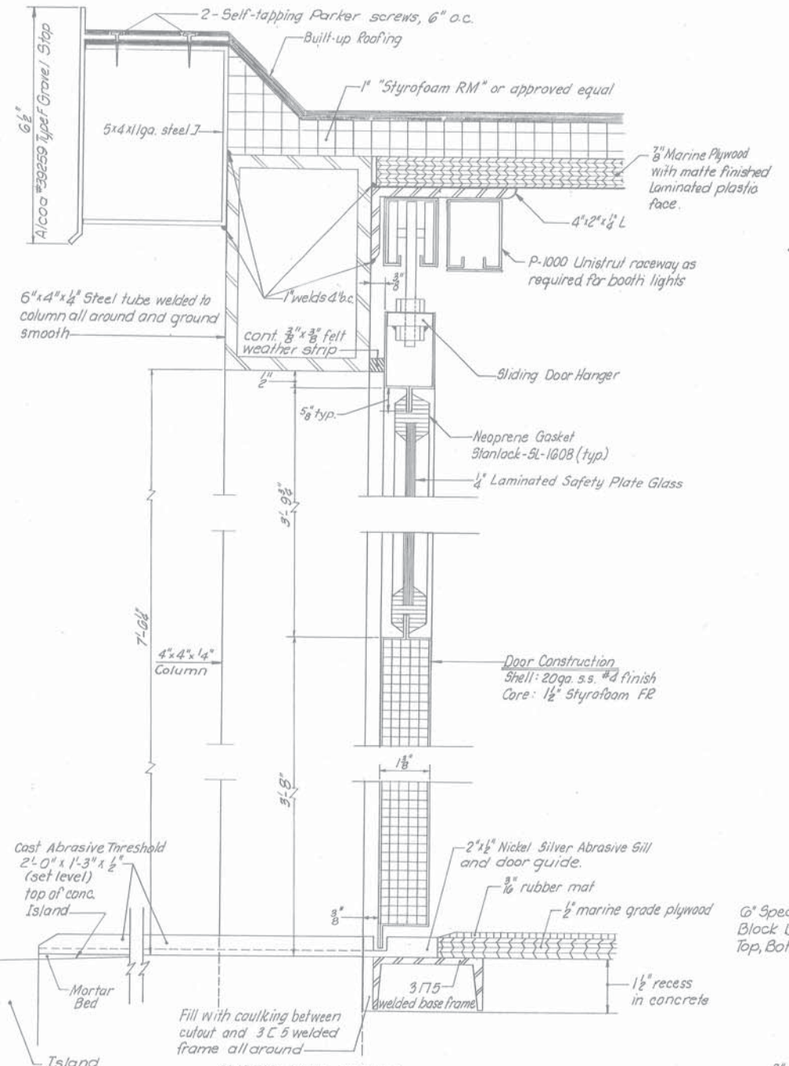
TOLL BOOTHS

ELEVATIONS & SECTIONS

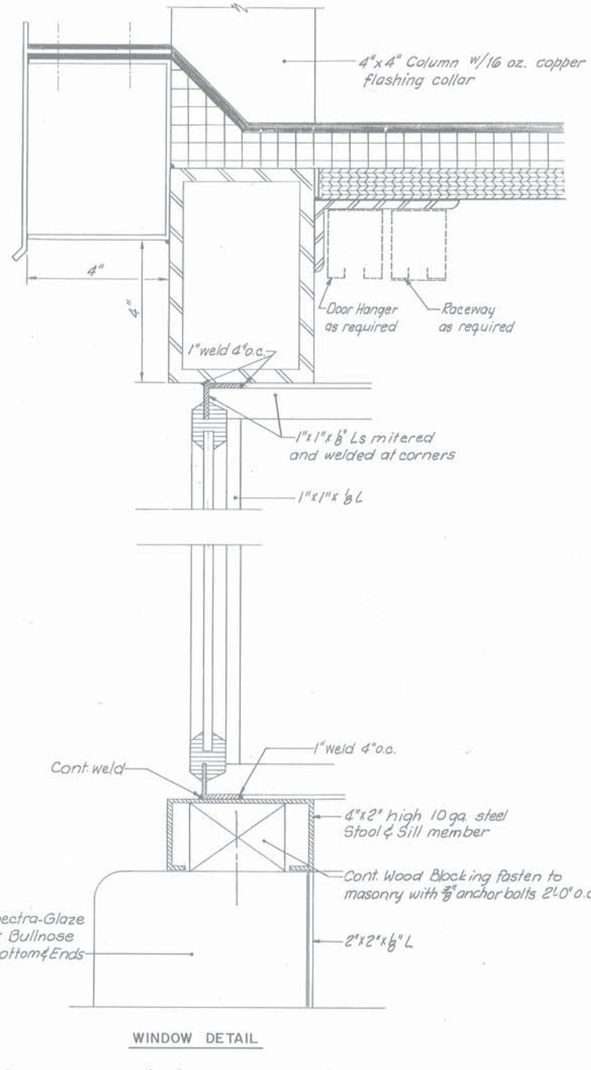
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

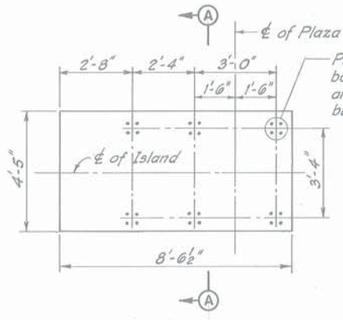
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	23	58



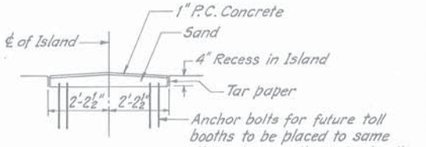
SLIDING DOOR DETAILS



WINDOW DETAIL



PLAN



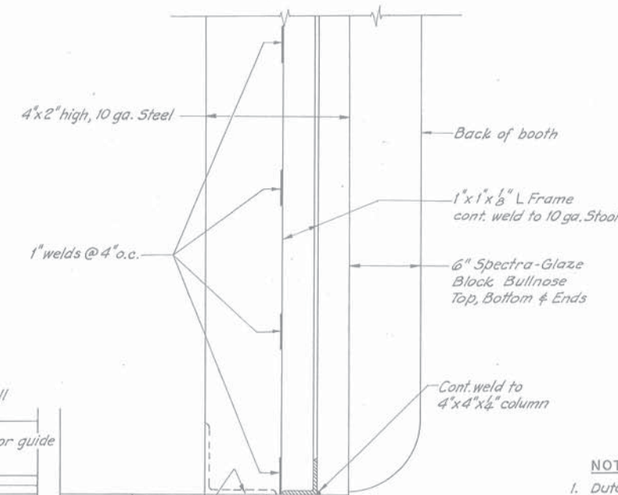
SECTION A-A

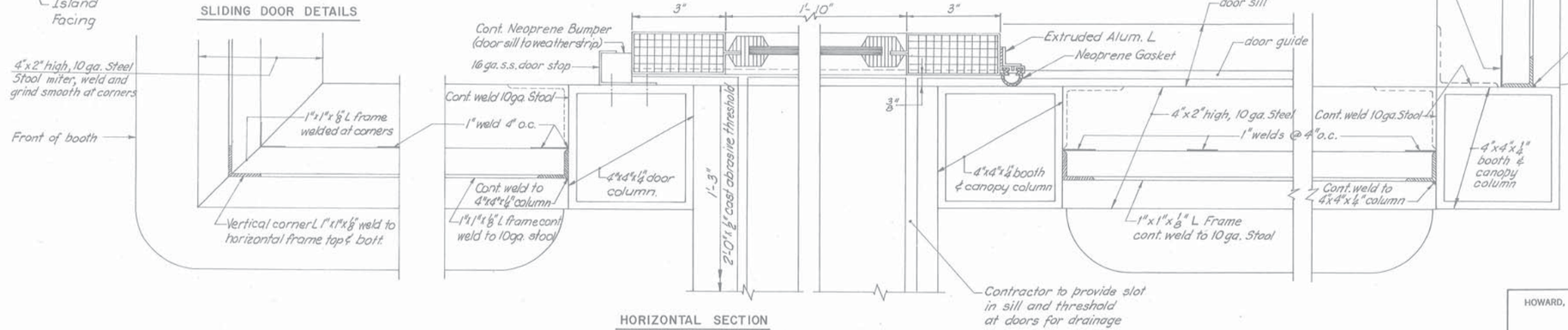
FUTURE BOOTH RECESS

(Use on Islands A, B ℄ L)

3/8" = 1'-0"

For anchor bolt placement and details see Sheet 21
For conduit locations and termination details see Sheets 26 or 27





HORIZONTAL SECTION

NOTE:

1. Dutch Door omitted from these Sections. For Dutch Door details see Sheet 24
2. All details are half size unless otherwise noted.

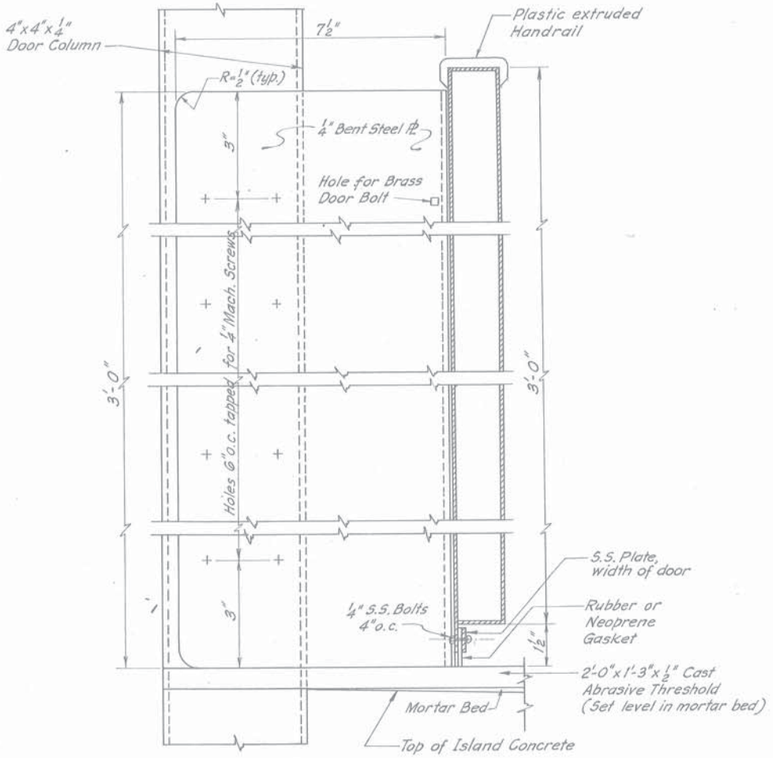
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TOLL BOOTH DETAILS

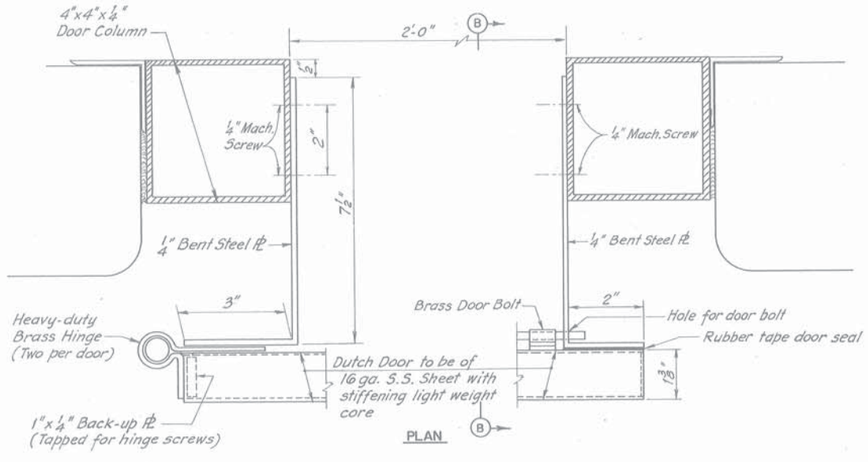
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

BRUNING 44-302

YORK (8)

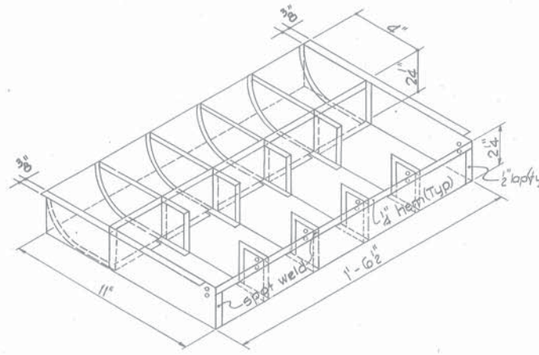


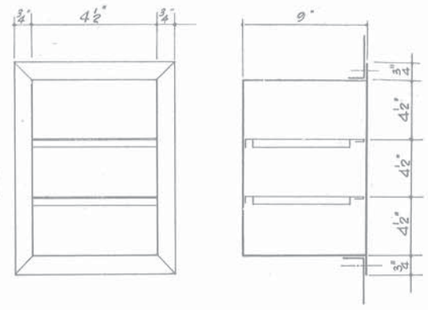
SECTION B-B



DUTCH DOOR DETAILS

Half size





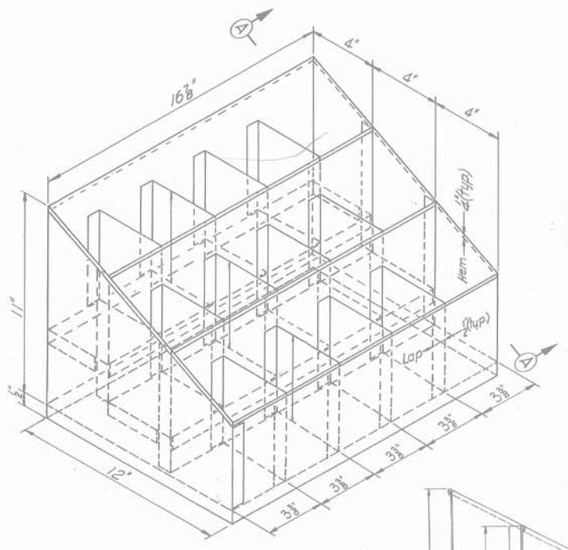
ELEVATION SECTION

MAP & PAPER RECEPTACLE

N.T.S.

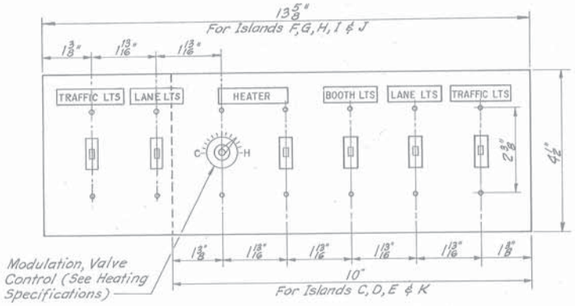
CASH TRAY INSERT

N.T.S.



TOLL TICKET HOLDER

3"=1'-0"



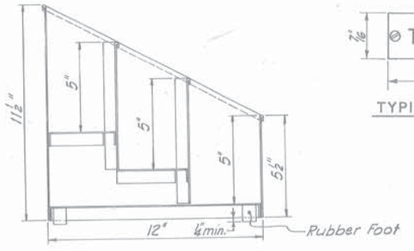
SWITCH PANEL PLATE DETAIL

Half size

Note: Plate shall be Stainless Steel .040" Recessed ¾" into face of Counter.

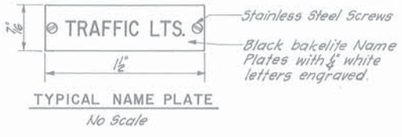
SWITCH SCHEDULE:

Heater - 20A-3-position Hubbell Cat. No. 1385.
Traffic Lights - 20A-1-pole Hubbell Cat. No. 2971.
Single Booth Lts - 20A-1-pole Hubbell Cat. No. 2971.
Lane Lts - 30A-1-pole Hubbell Cat. No. 2923
Lane Lts - 30A-3 way Hubbell Cat. No. 2925.



SECTION A-A

3"=1'-0"



TYPICAL NAME PLATE

No Scale

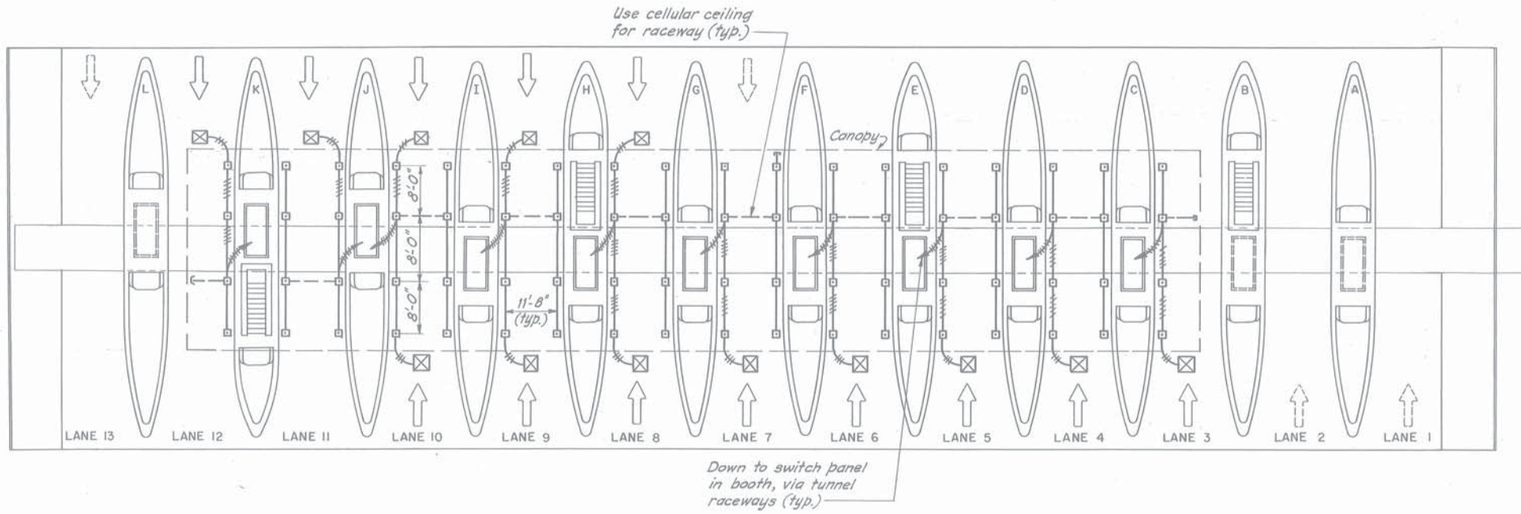
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

MISCELLANEOUS DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

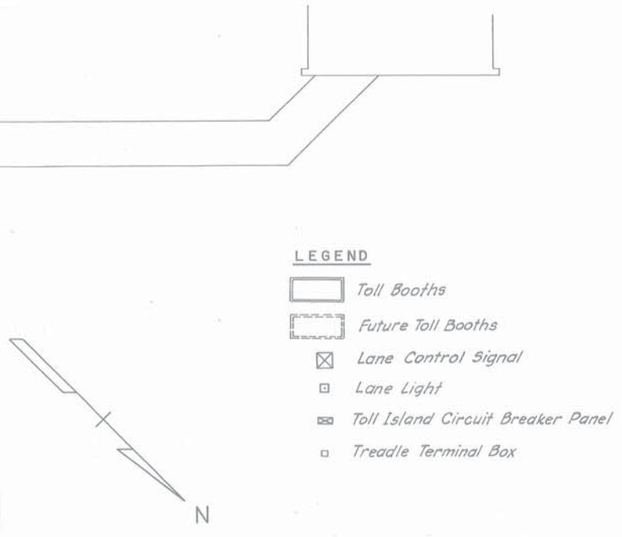
YORK (8)

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	25	58



LANE LIGHTING PLAN

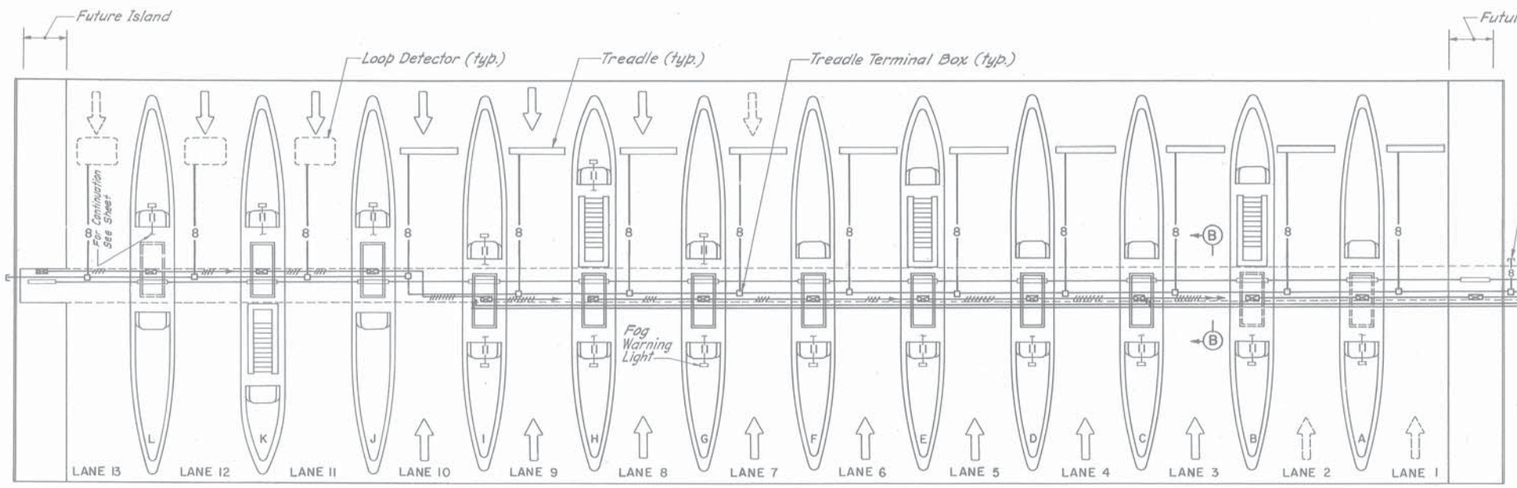
$\frac{3}{32}$" = 1'-0"



LEGEND

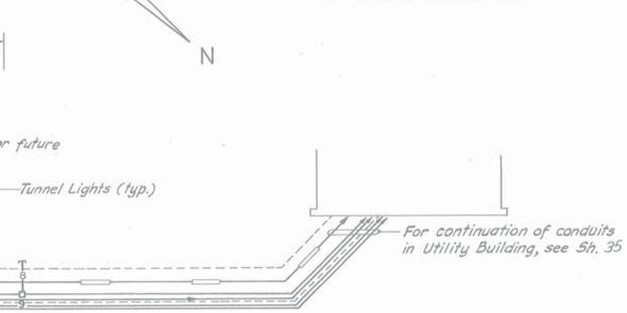
- Toll Booths
- Future Toll Booths
- Lane Control Signal
- Lane Light
- Toll Island Circuit Breaker Panel
- Treadle Terminal Box

N



TUNNEL & LIGHTING CONDUIT FEEDERS

$\frac{3}{32}$" = 1'-0"



NOTES:

1. Duplex receptacle to be installed adjacent to each circuit breaker panel.
2. See Sheet 27 for Section B-B and locations of conduit and panel on tunnel wall and typical conduit layout for each booth.
3. See Sheet 27 for conduit schedule and circuit breaker layout.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

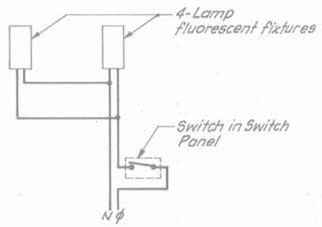
TOLL PLAZA
LIGHTING PLAN

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

NEW YORK BOSTON KANSAS CITY

YORK (8)

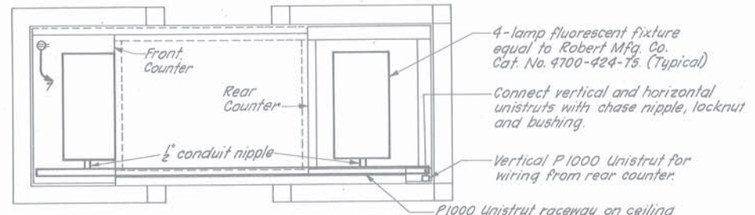
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-05-1(8)	26	58



TOLL BOOTH LIGHTING PLAN

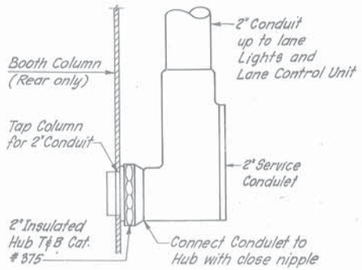
WIRING DIAGRAM

No scale



SINGLE TOLL BOOTH LIGHTING PLAN

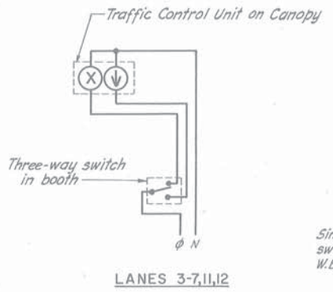
¾" = 1'-0"



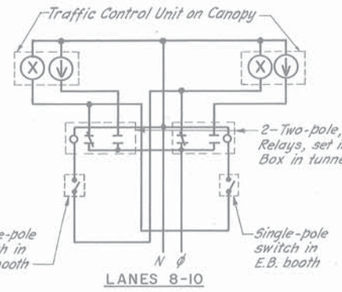
DETAIL A

No scale

For Location see Sheet # 21



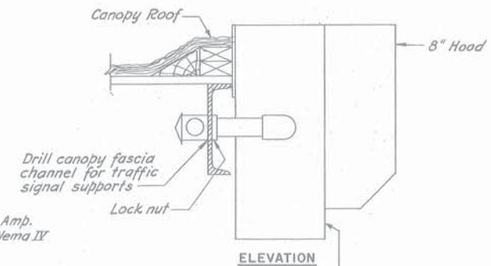
LANES 3-7,11,12



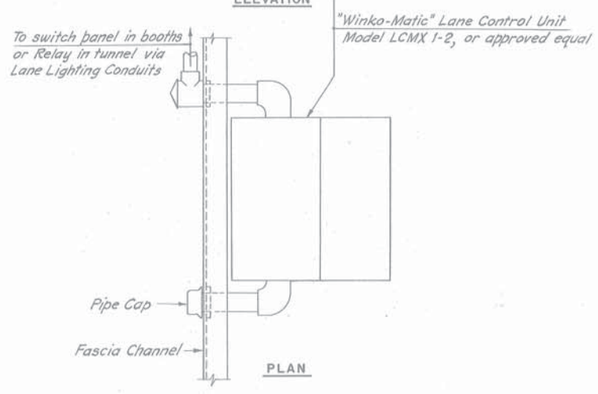
LANES 8-10

TRAFFIC CONTROL WIRING DIAGRAMS

No scale



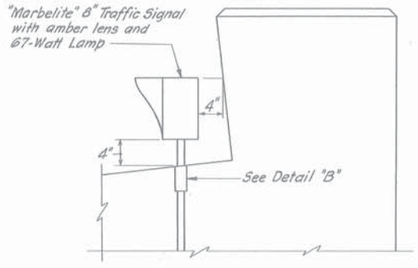
ELEVATION



PLAN

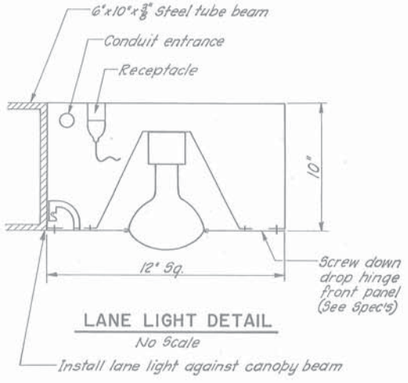
TYPICAL LANE CONTROL UNIT

½" = 1'-0"



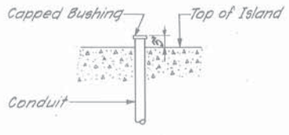
FOG WARNING LIGHT DETAIL

1" = 1'-0"



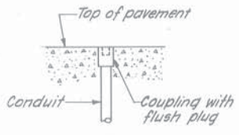
LANE LIGHT DETAIL

No Scale



TYPICAL CONDUIT TERMINATION ON TOLL ISLAND

No Scale



DETAIL B

No Scale

Use at all conduit terminations for future equipment.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

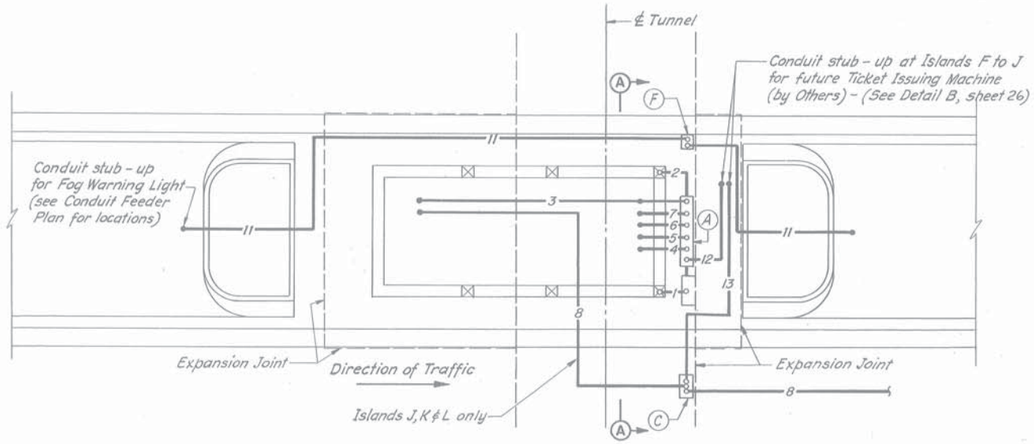
ELECTRICAL DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

NEW YORK BOSTON KANSAS CITY

YORF (6)

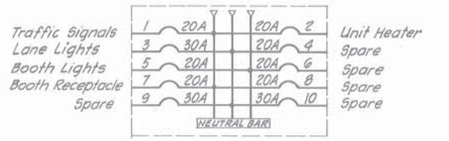
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	27	58



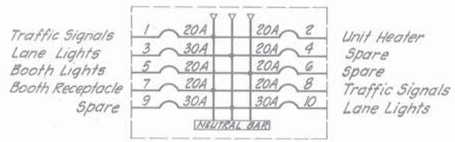
TYPICAL ISLAND CONDUIT LAYOUT

1/8" = 1'-0"

On Islands A, B, L & Future Islands conduit to be terminated as shown in Detail B, Sheet 26



ISLANDS A thru I, K & L



ISLAND J

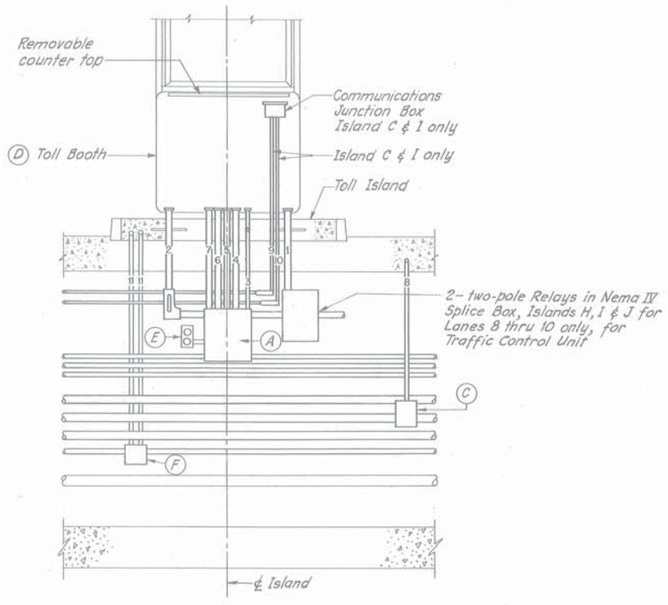
TOLL ISLAND CIRCUIT BREAKER PANEL ARRANGEMENTS

CONDUIT SCHEDULE

CONDUIT NO.	DESIGNATION	FOR	CONDUIT SIZE
1	Lane Control Units and Lane Lights	Canopy	1¼"
2	Spare (except Island J, used same as Conduit No. 1)	Canopy	1¼"
3	Booth Duplex Receptacle	Booths	1"
4	Unit Heater Power Supply	Booths	1"
5	Lane Control Signal Units	Booths	1"
6	Booth Lights	Booths	1¼"
7	Spare	Booths	1½"
8	Treadle	Booths	1½"
9	Radio (Island C & I only)	Booths	¾"
10	Telephone (Island C & I only)	Booths	¾"
11	Fog Warning Light	Island	1½"
12	Ticket Issuing Machine, Power Supply	Island	1½"
13	Ticket Issuing Machine, Control	Island	1½"

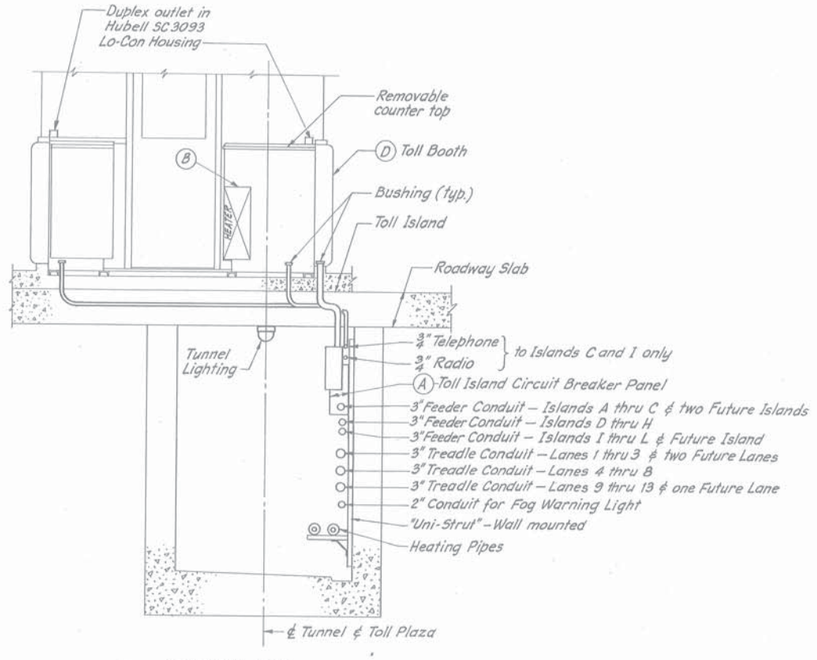
TOLL PLAZA EQUIPMENT SCHEDULE

- (A) Toll Island Circuit Breaker Panel
- (B) Booth Heating Unit
- (C) Treadle Terminal Box
- (D) Toll Booth
- (E) Duplex Receptacle in F.D. Box
- (F) Fog Warning Light Junction Box



SECTION A-A

1/2" = 1'-0"



SECTION B-B

1/2" = 1'-0"

NOTES:

1. All horizontal runs shall be installed in tunnel roof or roadway slab. All vertical runs from panel boxes on tunnel wall to roof slab shall be exposed.
2. Provide a "Unistrut" support system complete with fittings and connections for mounting conduits and piping.
3. All conduits for future Islands shall be completely installed and terminated as indicated in Detail B, sheet 26.
4. Both ends of all conduits shall be identified with brass wrap-around tags embossed with ¼" high numbers. Tags shall be equal to Seton Name Plate Co's Cable Markers.
5. Expansion deflection couplings are to be provided wherever conduits pass through expansion joints.

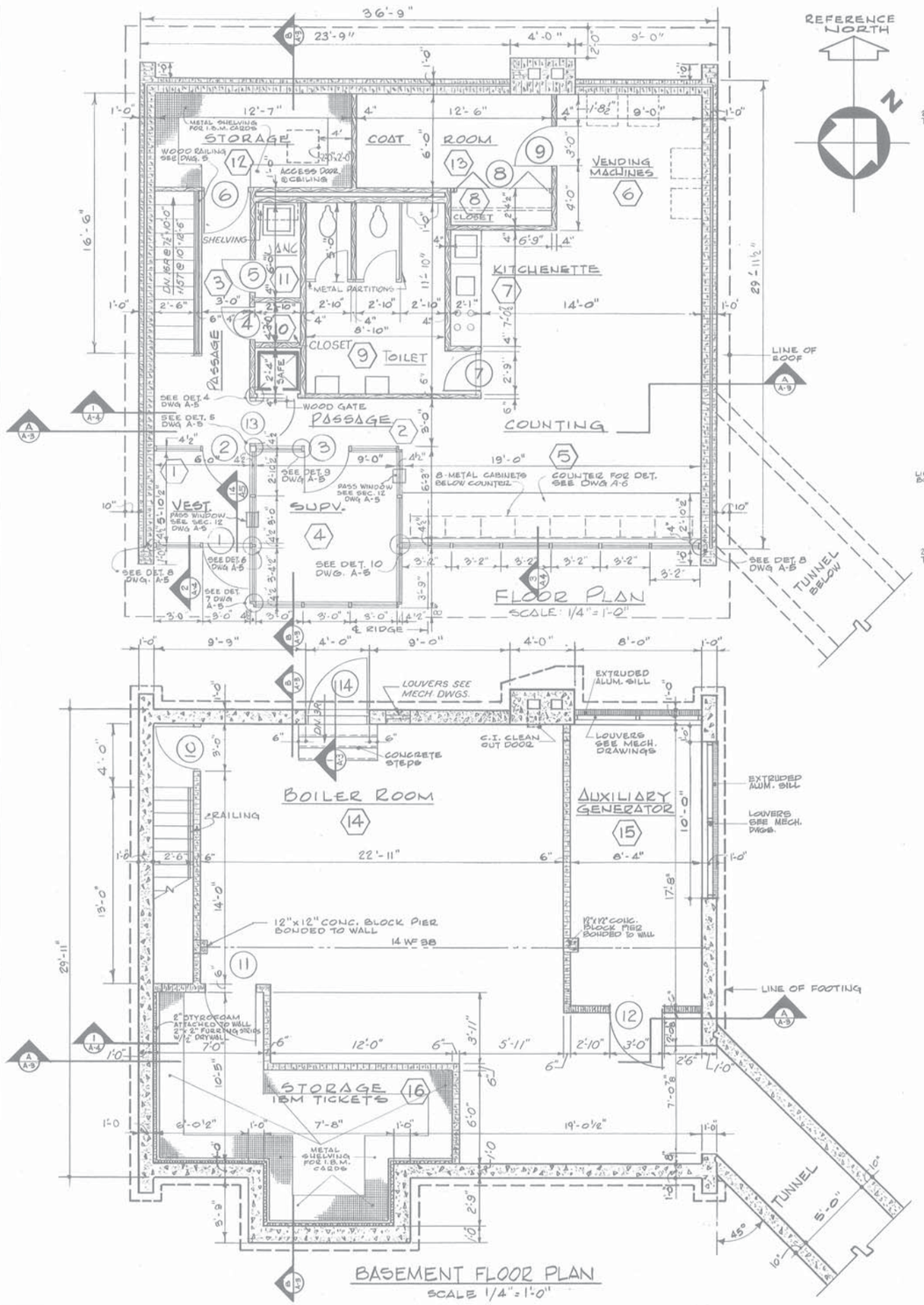
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

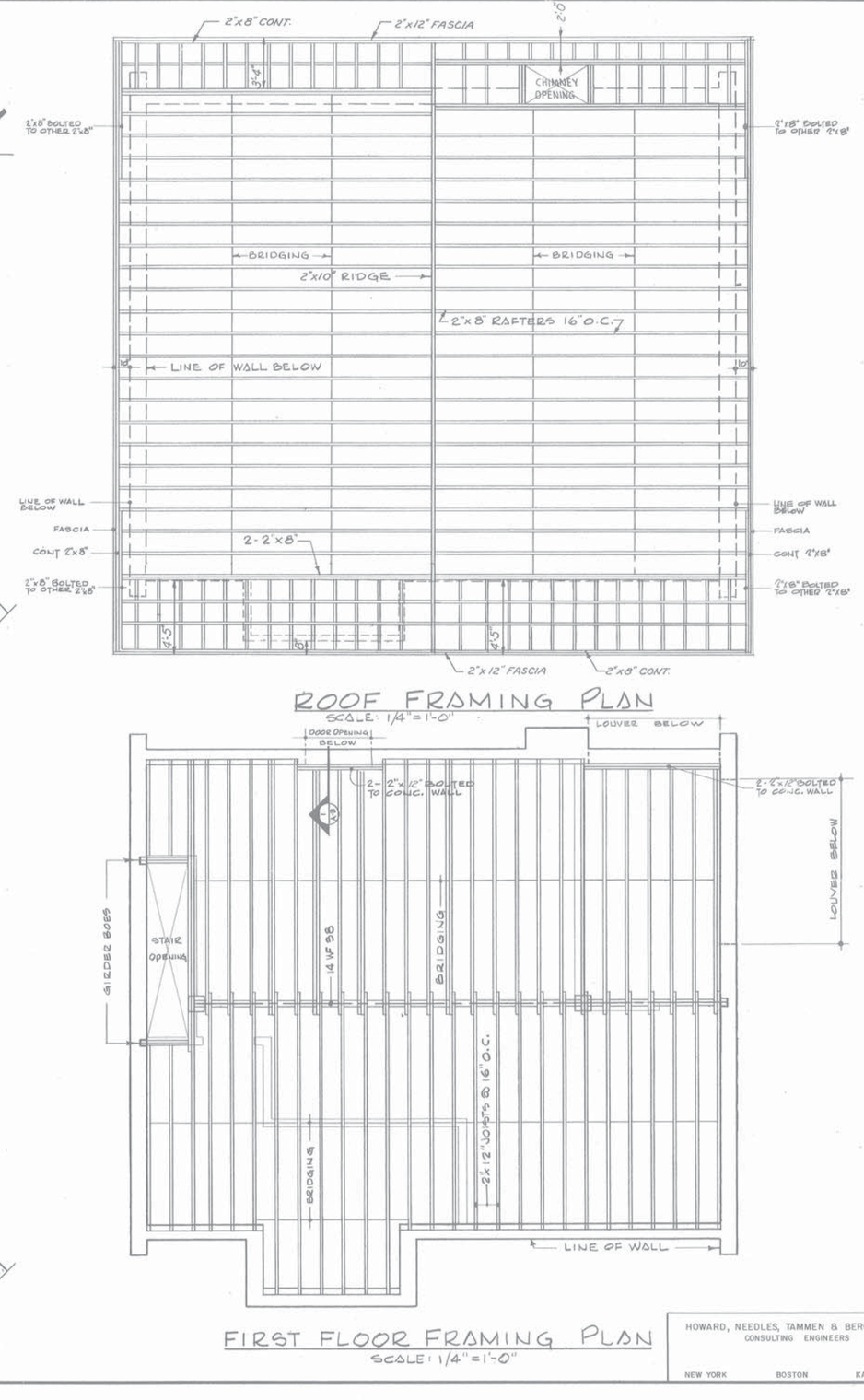
TOLL PLAZA TUNNEL ELECTRICAL DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

WORK (8)

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	[illegible] 8	28	58





LEGEND

- CONCRETE
- CONCRETE BLOCK
- RIGID INSULATION
- BLANKET INSULATION
- ROUGH WOOD
- FINISH HARD WOOD
- WOOD STUD PARTITION
- (1) ROOM NUMBER
- (1) DOOR NUMBER
- (B) SECTION
- (X) ELEVATION
- (1/2) SECTION OR DETAIL NUMBER, DWG. OR SHEET NUMBER

ABBREVIATIONS

B.F.	BOTTOM OF FOOTING
EL.	ELEVATION
H.M.	HOLLOW METAL DOOR
PL. GL.	PLATE GLASS
T.O.	TRIMMED OPENING
V.A.T.	VINYL ASBESTOS TILE
W.D	WOOD DOOR
GYP. BD.	GYPSUM BOARD
AL. or ALUM.	ALUMINUM
D.S.	DOWN SPOUT

NOTE:
SEE STRUCTURAL DWG. A-7 FOR SIZE & LOCATION OF PILES

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

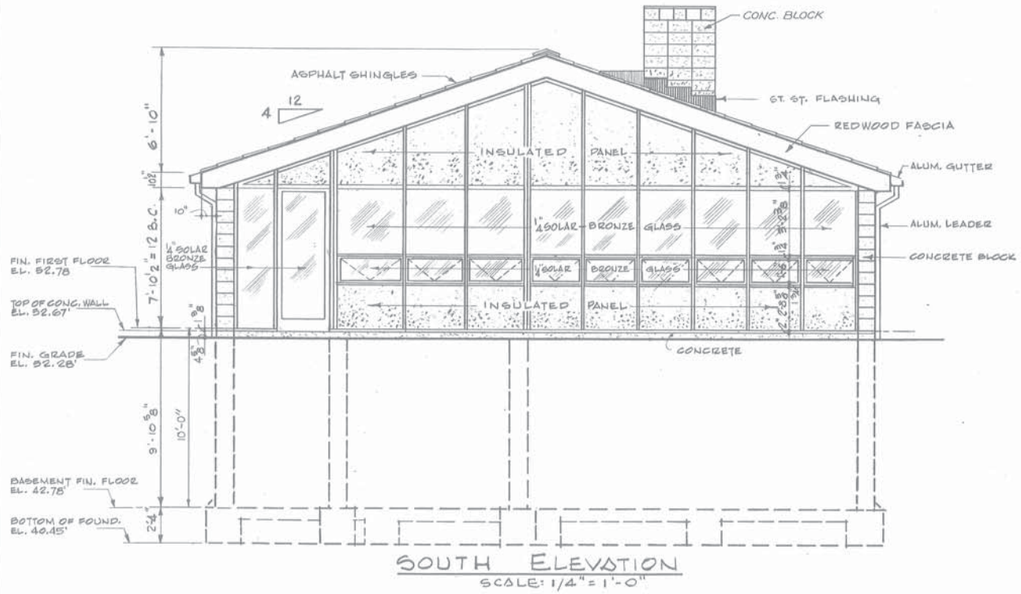
UTILITY BUILDING
BASEMENT FIRST FLOOR & FRAMING PLANS

DWG. A-1

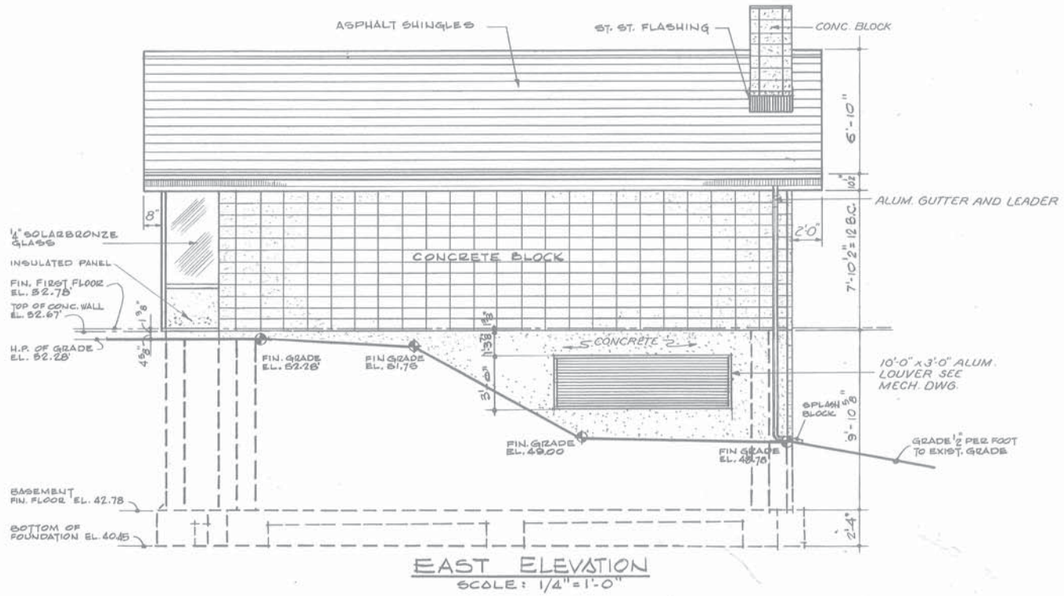
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

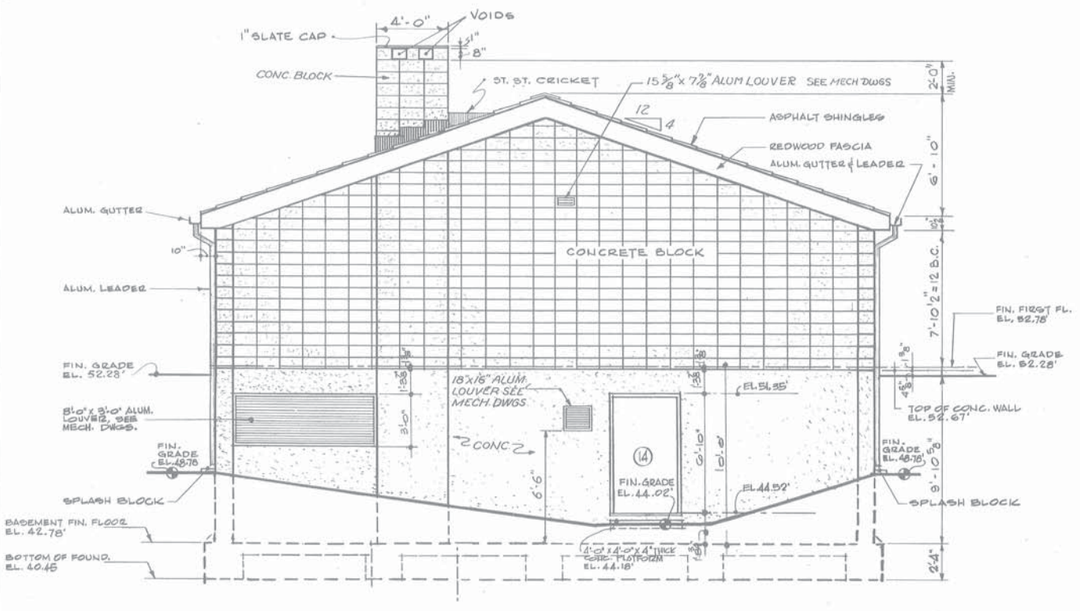
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	29	58



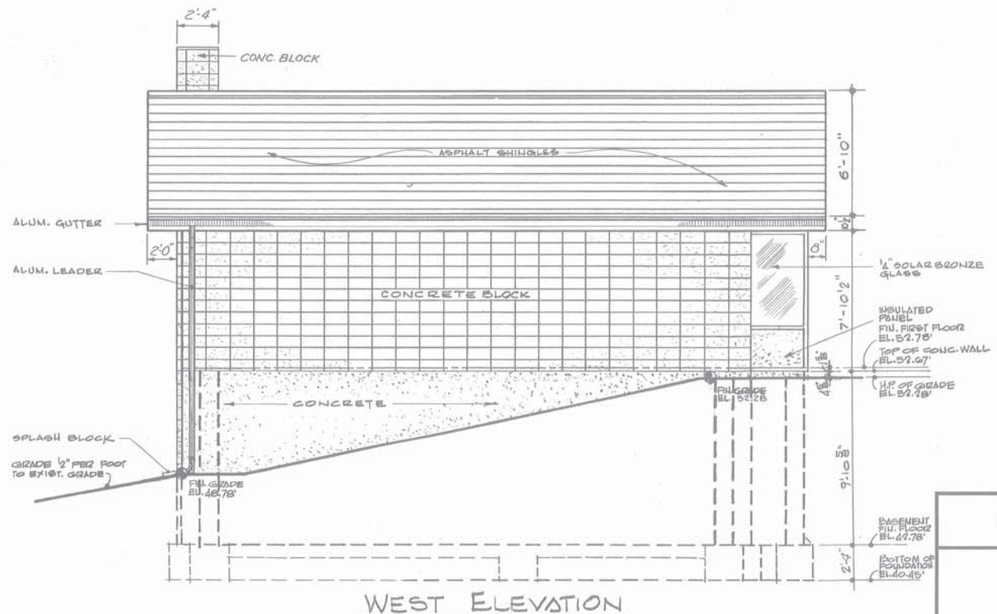
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"



NORTH ELEVATION
SCALE: 1/4" = 1'-0"



WEST ELEVATION
SCALE 1/4" = 1'-0"

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
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NEW YORK BOSTON KANSAS CITY

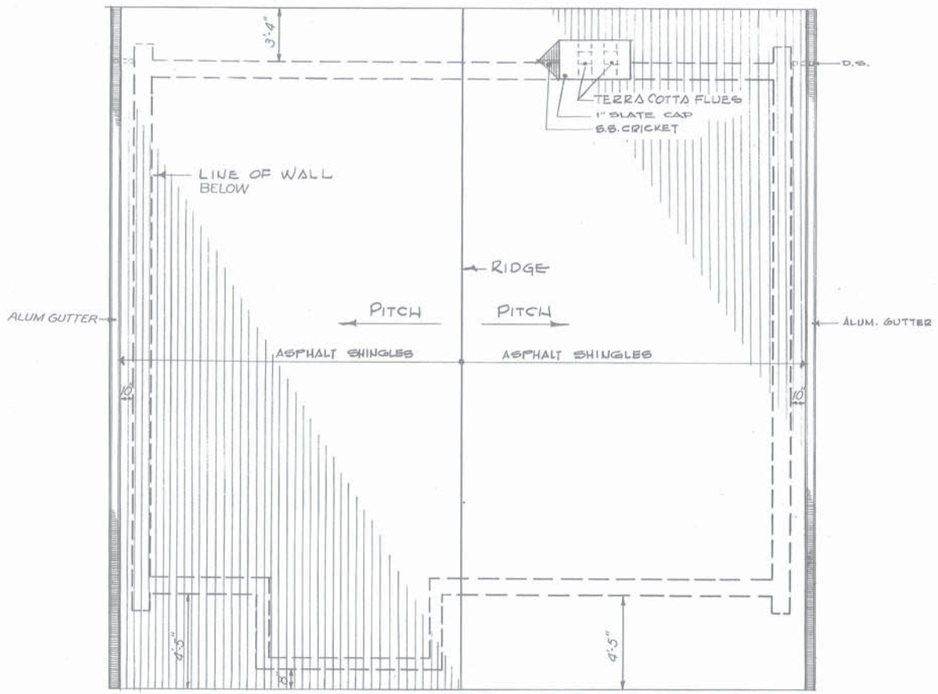
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING EXTERIOR ELEVATIONS

DWG. A-2

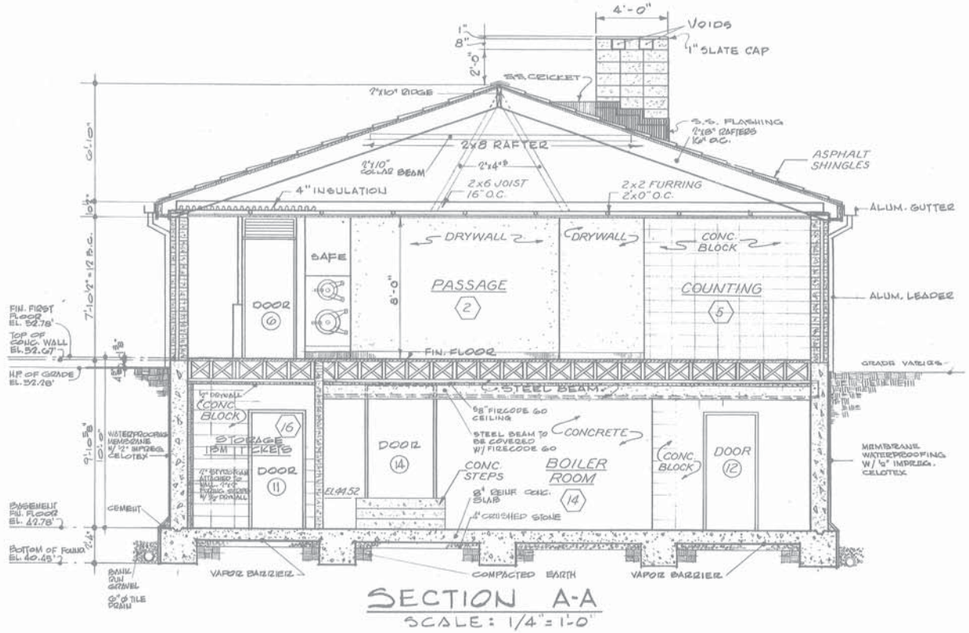
YORK (8)

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-93-1(8)	30	58



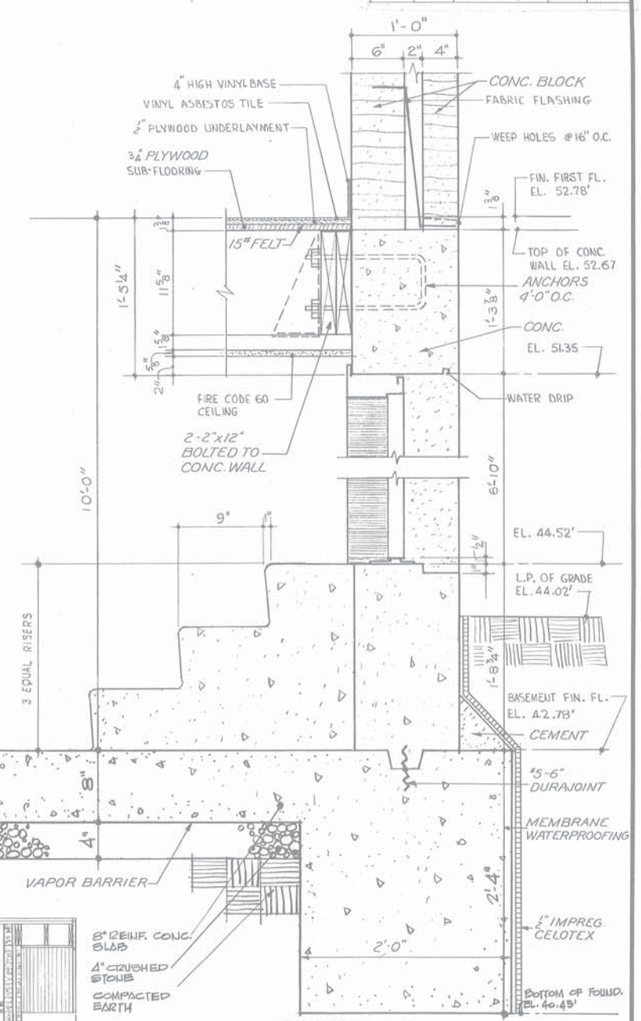
ROOF PLAN

SCALE: 1/4" = 1'-0"



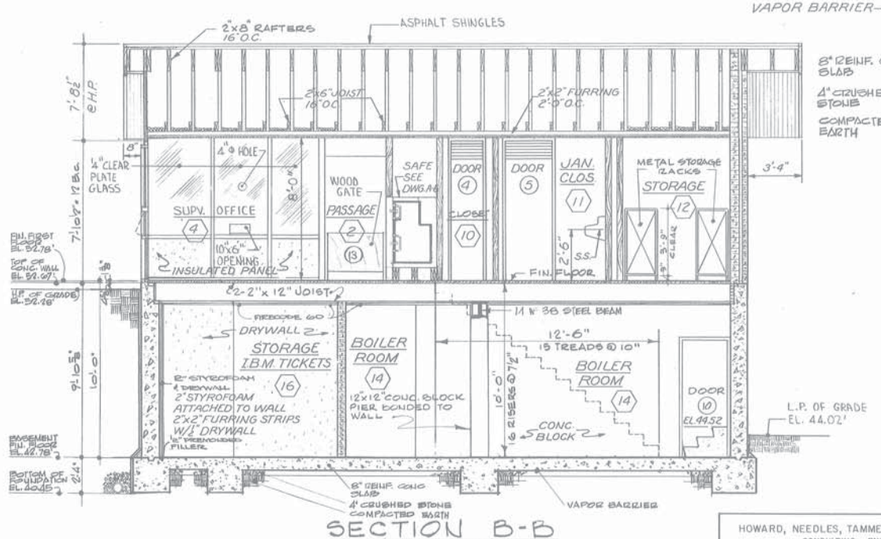
SECTION A-A

SCALE: 1/4" = 1'-0"



SECTION 1-A3 SCALE: 1½" = 1'-0"

NOTE:
SEE STRUCTURAL DWGS. FOR LOCATION AND SIZE OF PILES AND REINFORCEMENT.



SECTION B-B

SCALE: 1/4" = 1'-0"

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

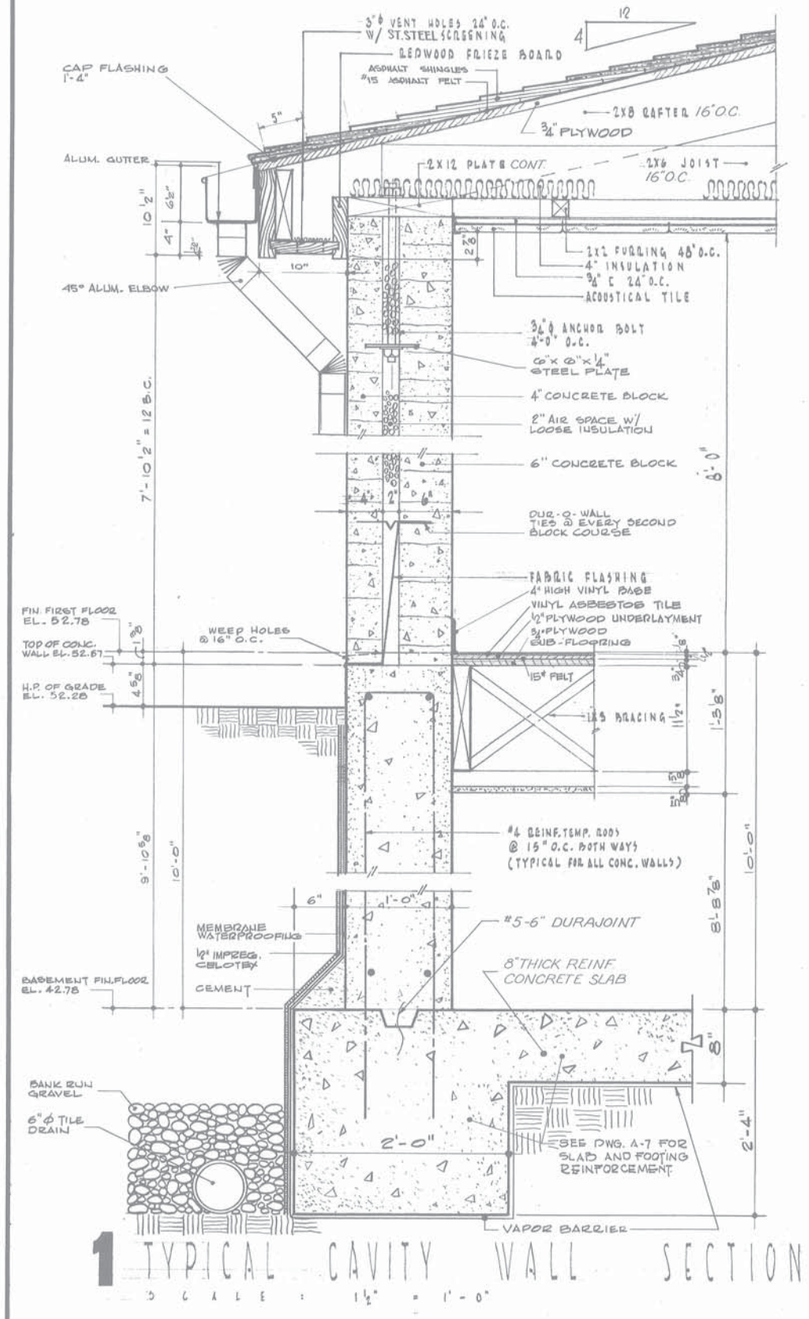
UTILITY BUILDING
ROOF PLAN, SECTIONS & DETAILS

DWG. A-3

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

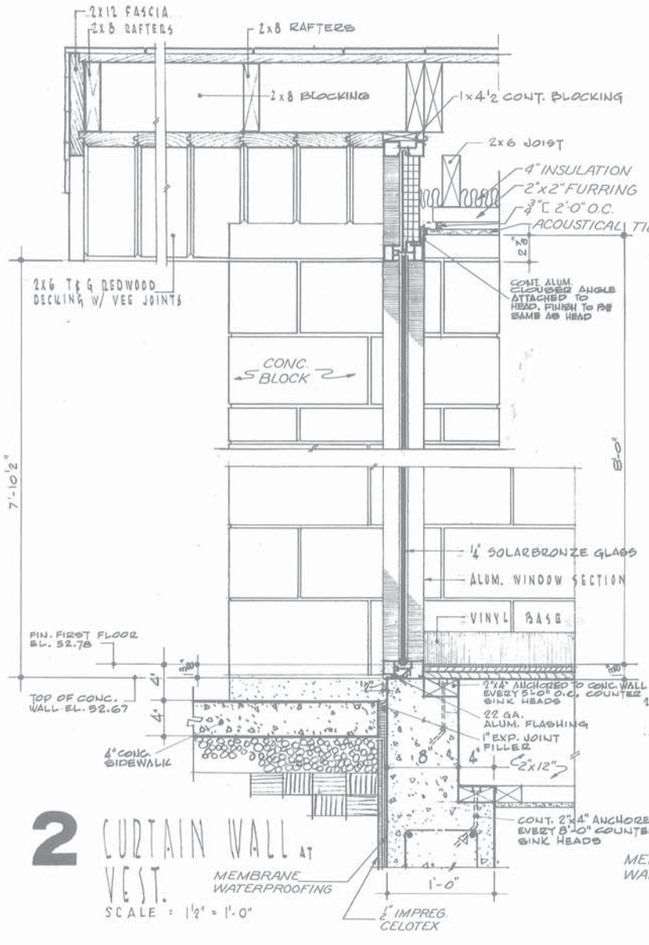
YORK (8)

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1,	MAINE	I-95-1(8)	31	58



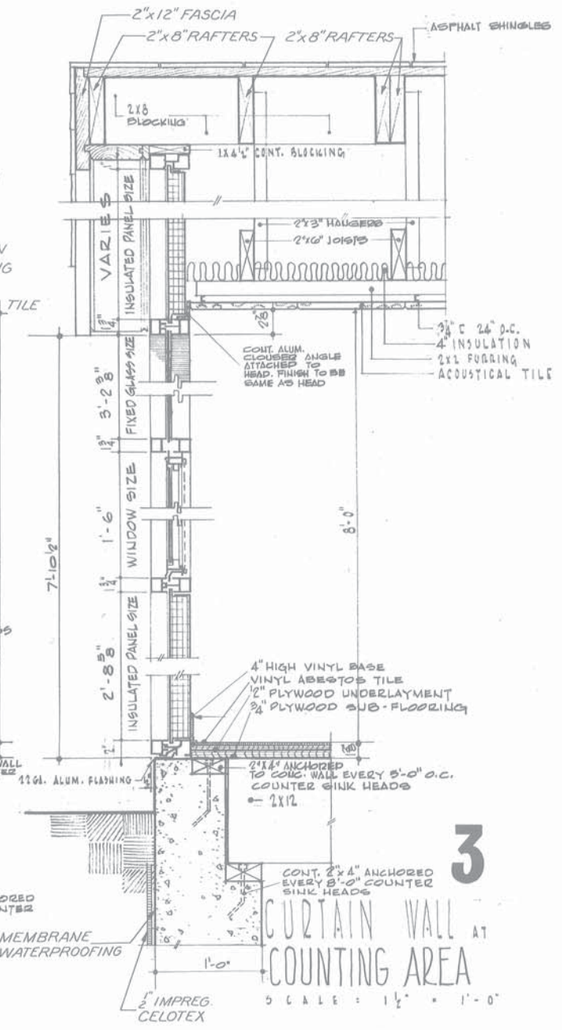
1 TYPICAL CAVITY WALL SECTION

SCALE : 1½" = 1'-0"



2 CURTAIN WALL AT VEST.

SCALE : 1½" = 1'-0"



3 CURTAIN WALL AT COUNTING AREA

SCALE : 1½" = 1'-0"

NOTE: Bolted connection for wood trusses to be designed by the Contractor and to be approved by the Engineer.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

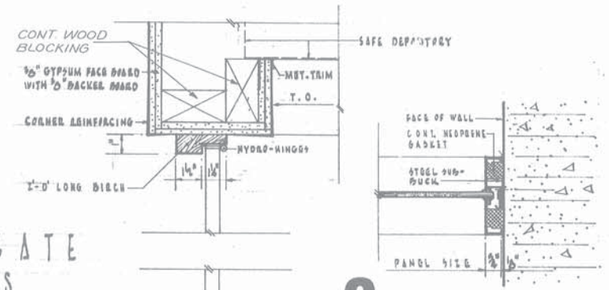
UTILITY BUILDING
SECTIONS & DETAILS

DWG. A-4

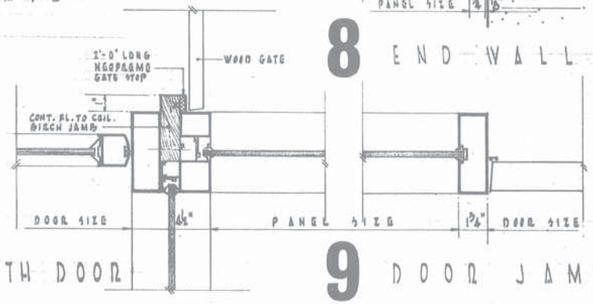
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

D.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	32	58



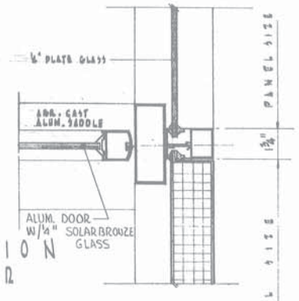
4 WOOD GATE DETAILS



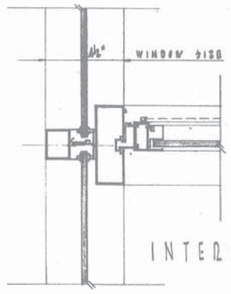
5 CORNER WITH DOOR

8 END WALL

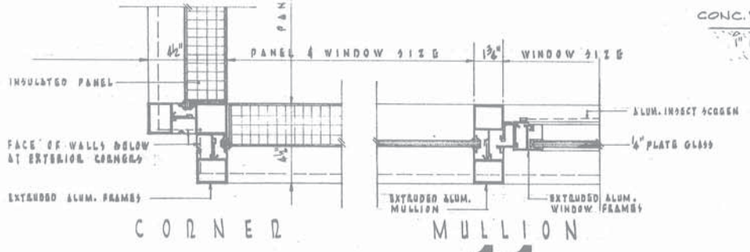
9 DOOR JAMB



6 INTERSECTION WITH DOOR



10 INTERSECTION

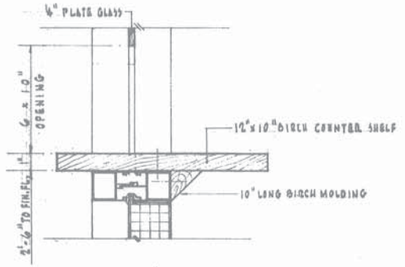


7 CORNER

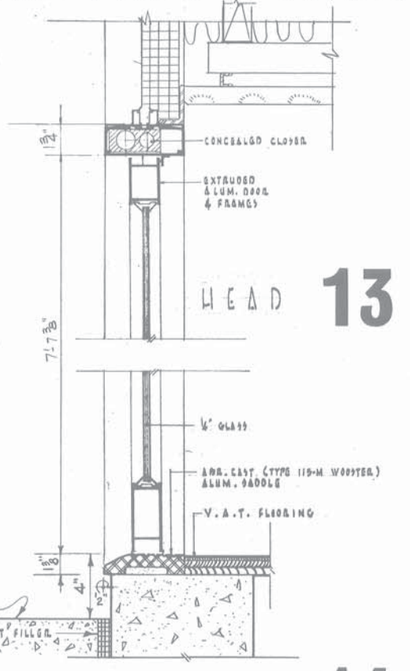
11 MULLION

TYPICAL CURTAIN WALL DETAILS

SCALE 3" = 1'-0"



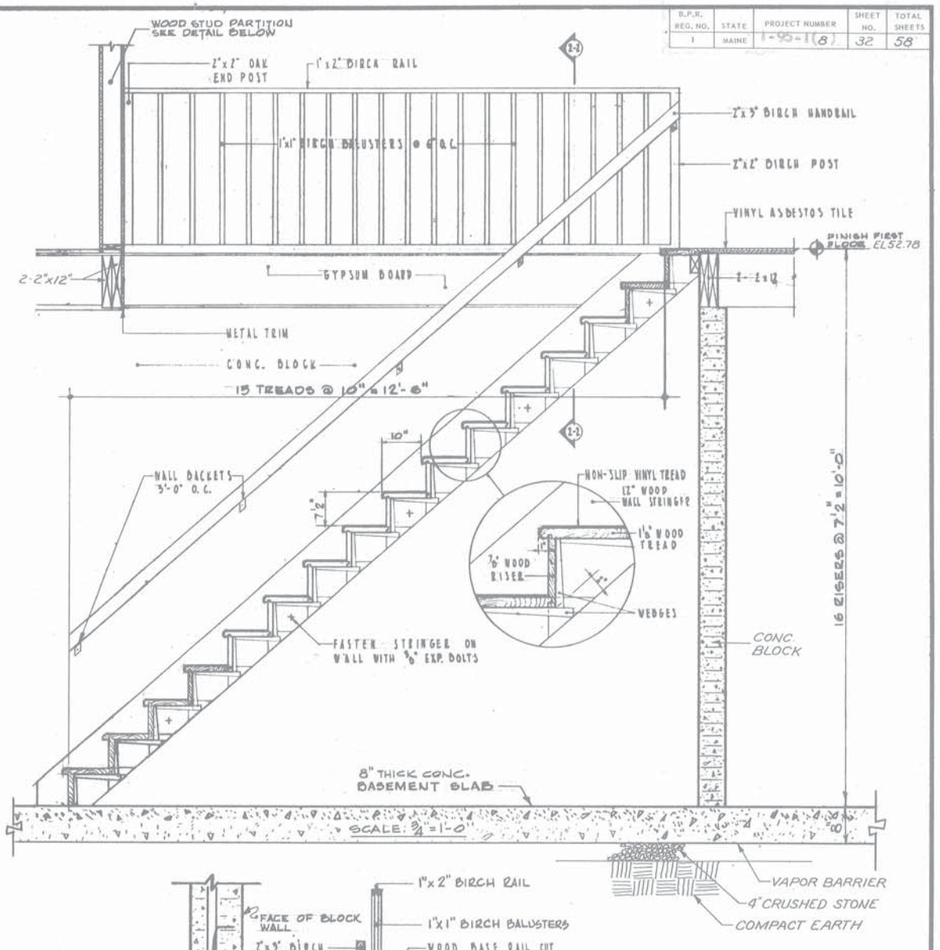
12 PASS WINDOW DETAIL

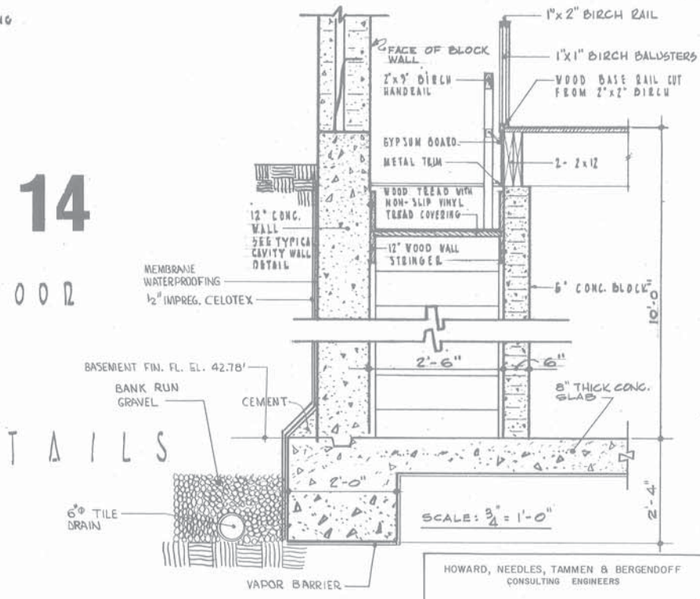


HEAD 13

SILL 14

SECTION THRU DOOR





HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING SECTIONS & DETAILS

DWG. A-5

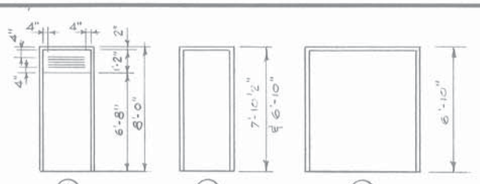
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	33	58

FINISH SCHEDULE

NO.	NAME	NORTH	PAINT WALL MARK	PAINT BASE TYPE	SOUTH	PAINT WALL MARK	PAINT BASE TYPE	EAST	PAINT WALL MARK	PAINT BASE TYPE	WEST	PAINT WALL MARK	PAINT BASE TYPE	FLOOR	CEILING	HEIGHT	REMARKS
1	VEST.	GLASS & METAL	–	–	GLASS & METAL	–	–	GLASS & METAL	–	–	VITROGLAZE ON CONC. BL.	–	1	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
2	PASSAGE	DRYWALL	Y	1	GLASS & METAL	–	–	OPEN	–	–	VITROGLAZE ON CONC. BL.	–	1	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
3	PASSAGE	DOOR	–	–	OPEN	–	–	DRYWALL	Y	1	RAILING	–	–	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
4	SUPERISIOR	GLASS & METAL	–	–	GLASS & METAL	–	–	GLASS & METAL	–	–	GLASS & METAL	–	–	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
5	COUNTING	DRYWALL	Y	1	GLASS & METAL	–	–	VITROGLAZE ON CONC. BL.	–	1	GLASS & METAL	–	–	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
6	VENDING MACHINES AREA	VITROGLAZE ON CONC. BL.	–	1	OPEN	–	–	VITROGLAZE ON CONC. BL.	–	1	DRYWALL	Y	1	VINYL ASBESTOS	ACOUSTICAL TILE	8'-0"	
7	KITCHEN-NETTE	DRYWALL	Y	1	DRYWALL	Y	1	OPEN	–	–	DRYWALL	–	–	VINYL ASBESTOS	DRYWALL		DRYWALL TO BE FIRE CODE 60
8	CLOSET	DOORS	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	VINYL ASBESTOS	DRYWALL	8'-0"	
9	TOILET	CER. TILE ON DRYWALL	–	2	CER. TILE ON DRYWALL	–	2	CER. TILE ON DRYWALL	–	2	CER. TILE ON DRYWALL	–	2	CER. TILE	DRYWALL	8'-0"	WATER PROOF SHEETROCK
10	CLOSET	DRYWALL	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	DOOR	–	–	VINYL ASBESTOS	DRYWALL	8'-0"	
11	JAN. CLOSET	DRYWALL*	Y	2	DRYWALL*	Y	2	DRYWALL*	Y	2	DRYWALL*	Y	2	CER. TILE	DRYWALL	8'-0"	2-3/4"x1'-0" WIDE PINE SHELVES PAINTED WATER PROOF SHEETROCK & CER. TILE 4'-0" HIGH
12	STORAGE	CONC. BLOCK	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	CONC. BLOCK	Y	1	VINYL ASBESTOS	DRYWALL	8'-0"	
13	COAT RM.	CONC. BLOCK	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	DRYWALL	Y	1	VINYL ASBESTOS	DRYWALL	8'-0"	
14	BOILER ROOM	CONCRETE	Y	3	CONCRETE & BLOCK	Y	3	CONCRETE & BLOCK	Y	3	CONC. BLOCK	Y	3	CONC. *	DRYWALL+	8'-0"	* TROWEL FIN. SLAB, PAINTED SEE NOTE ON THIS SHEET + FIRE CODE 60
15	AUXILIARY GENERATOR	CONCRETE	Y	3	CONC. BLOCK	Y	3	CONCRETE	Y	3	CONC. BLOCK	Y	3	CONC. *	DRYWALL+	8'-0"	* TROWEL FIN. SLAB, PAINTED SEE NOTE ON THIS SHEET + FIRE CODE 60
16	STORAGE IBM TICKETS	CONC. BLOCK	Y	3	DRYWALL	Y	1	CONC. BLOCK	Y	3	DRYWALL	Y	1	CONC. *	DRYWALL+	8'-0"	* TROWEL FIN. SLAB, PAINTED SEE NOTE ON THIS SHEET + FIRE CODE 60

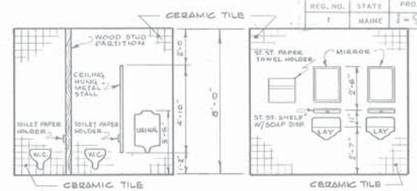
DOOR SCHEDULE

NO.	HARDWARE SET (SEE SPECS)	FRAME TYPE	HEAD	JAMB	SADDLE	LINTEL	DOOR MATERIAL	NOMINAL DOOR SIZE	FRAME MATERIAL	DOOR TYPE	LOUVER	CLOSER	REMARKS
1		*	*	*	*	—	ALUM. FRAME W/1/4" SOLAR BRONZE GLASS	3'-0"x	ALUM.	B	—	YES	* FOR DETAILS OF MAIN ENTRANCE SEE DWG A-5 DET. 6 & 13 & 14
2		*	*	*	*	—	ALUM. FRAME W/1/4" SOLAR BRONZE GLASS	3'-0"x	ALUM.	B	—	YES	* FOR DETAILS OF MAIN ENTRANCE SEE DWG A-5 DET. 6 & 13
3		*	*	*	—	—	WOOD	2'-10 1/4	ALUM.	A	—	YES	* FOR DETS. SEE DWG A-5
4		A	1	1	—	—	WOOD	2'-6"x 6'-8"	H.M.	A	LOUVER D FRAME A	—	
5		A	1	1	S-1	—	WOOD	2'-8"x 6'-8"	H.M.	A	LOUVER D FRAME A	—	
6		A	1	1	—	—	WOOD	2'-8"x 6'-8"	H.M.	A	LOUVER D FRAME A	—	
7		A	1	1	S-1	—	WOOD	2'-8"x 6'-8"	H.M.	A	LOUVER D FRAME A	—	
8		C	1A	1	—	—	H.M	4-1'-6"x 6'-8" x 1 3/4"	H.M.	C	IN DOORS	—	
9		A	1	1	—	—	WOOD	2'-8"x 6'-8"	H.M.	A	LOUVER D FRAME A	—	
10		B	2	2	—	5"x5"x 1/8"	H.M.	2'-8"x 7'-8 1/2"	H.M.	A	—	YES	1 1/2 HR. F.P.S.C.
11		B	2	2	—	5"x5"x 1/8"	H.M.	2'-8"x 7'-8 1/2"	H.M.	A	—	—	
12		B	2	2	—	5"x5"x 1/8"	H.M.	2'-8"x 7'-8 1/2"	H.M.	A	—	—	
13		*	—	*	—	—	WOOD	2'-9 1/2" x 2'-6"	WOOD	D	—	—	SPRING HINGES * FOR DETAILS SEE DWG A-5 DET. 4 & 5
14		B	3	*	+	—	H.M.	6'-8"x 3'-8"	H.M.	A	—	YES	* FOR JAMB DET. SEE HEAD DET. # 3 + ZERO # 74 ALUM. SADDLE

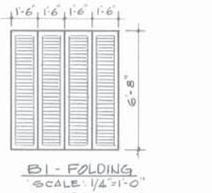


FRAME TYPES

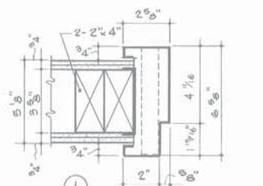
WOOD GATE

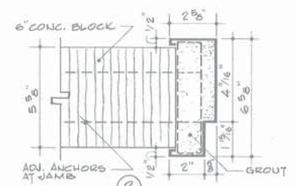


TOILET ELEVATIONS
SCALE: 1/4" = 1'-0"

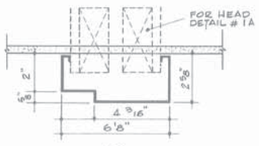


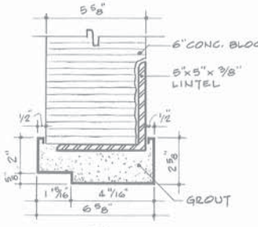
DOOR TYPES

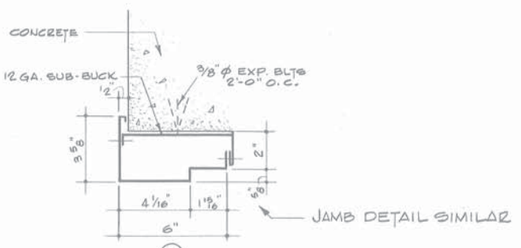




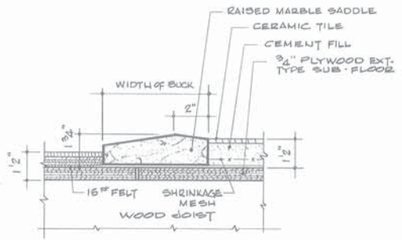
JAMB DETAILS SCALE: 3"=1'-0"







HEAD DETAILS SCALE: 3"=1'-0"



SADDLE DETAIL SCALE: 3"=1'-0"
TOILET & JAN. CLOSET S-1

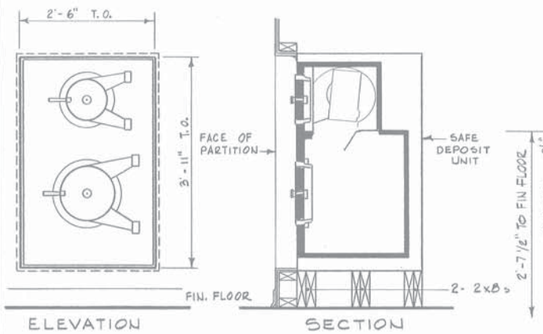
BASE NOTES

BASE TYPE # 1 - 4" VINYL BASE
BASE TYPE # 2 - 4" CER. TILE BASE
BASE TYPE # 3 - PAINTED BASE, 1 BLOCK HEIGHT

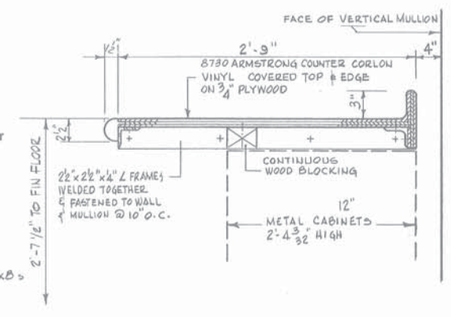
WHERE BASE TYPE # 1 & # 3 OCCUR IN SAME SPACE BASE # 3 SHALL BE THE SAME HEIGHT AS BASE # 1

NOTE:

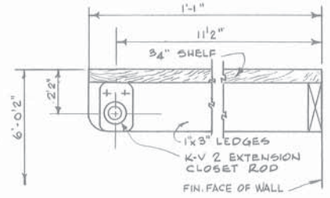
PAINT FOR CONCRETE FLOOR, WHERE INDICATED, SHALL CONFORM TO AASHO DESIGNATION M 70-52 TYPE I CLASS B (LEAD FREE)
COLOR SHALL BE SELECTED BY ENGINEER



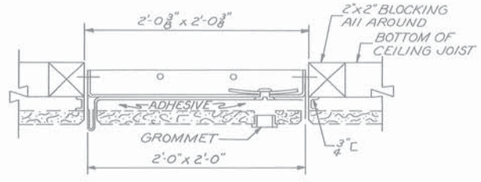
DETAILS OF DEPOSITORY SAFE
SCALE 3/4" = 1'-0"



COUNTER DETAIL
SCALE: 1'2"= 1'-0"



TYPICAL COAT CLOSET SHELF AND ROD DET.
SCALE: 3"=1'-0"



DETAIL METAL ACCESS DOOR
SCALE: 3"= 1'-0"

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

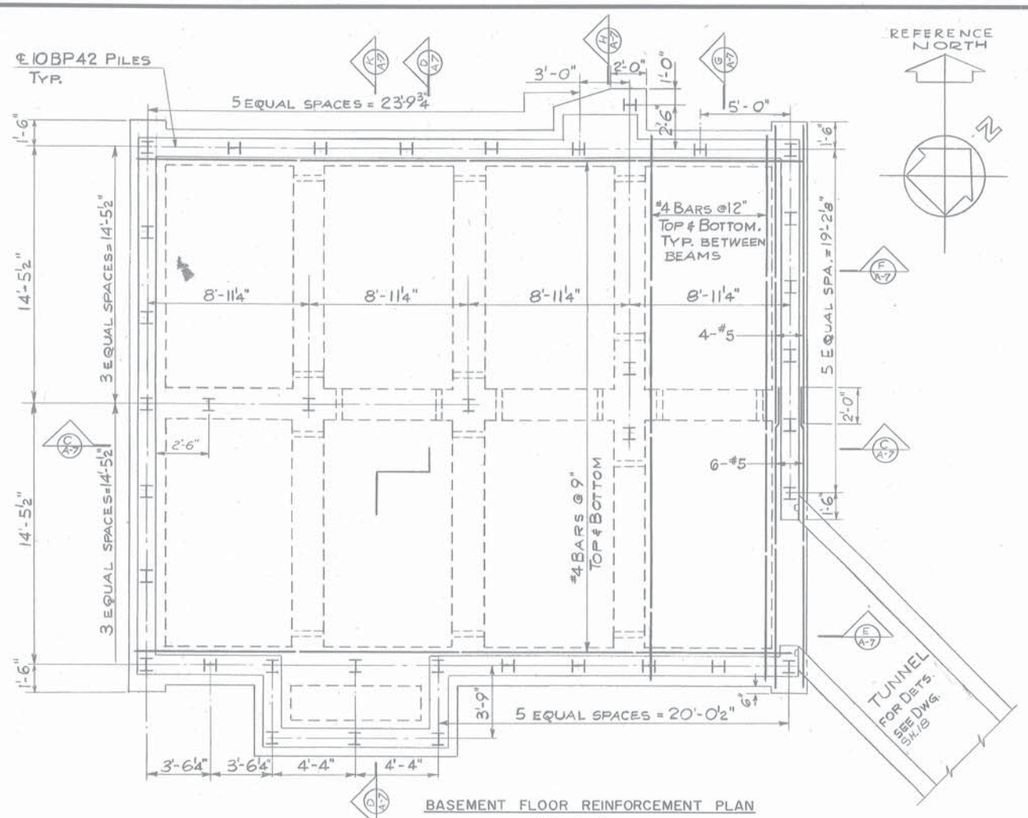
UTILITY BUILDING
FINISH SCHEDULE DOOR SCHEDULE & DETAILS

DWG. A-6

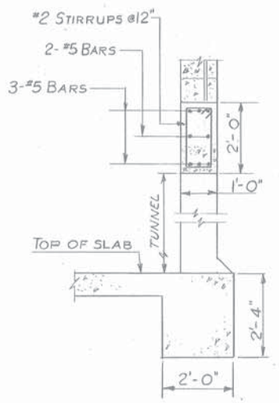
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

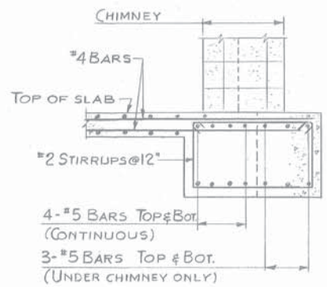
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	34	58



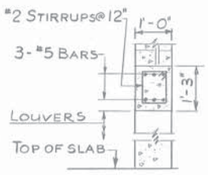
BASEMENT FLOOR REINFORCEMENT PLAN
¼" = 1'-0"



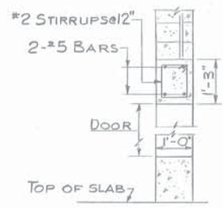
SECTION E-A7
½" = 1'-0"



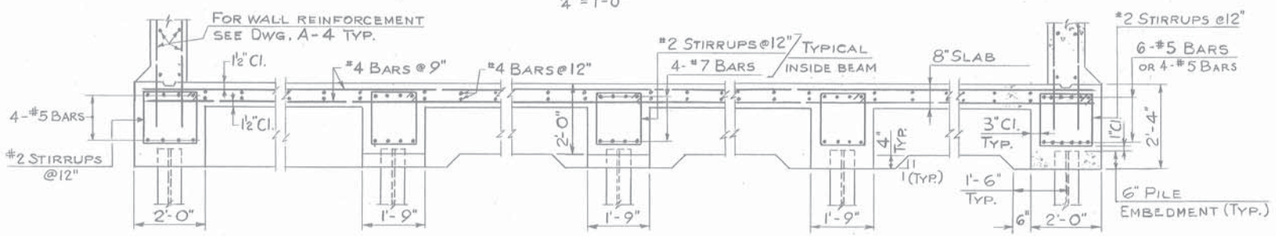
SECTION H-A7
½" = 1'-0"



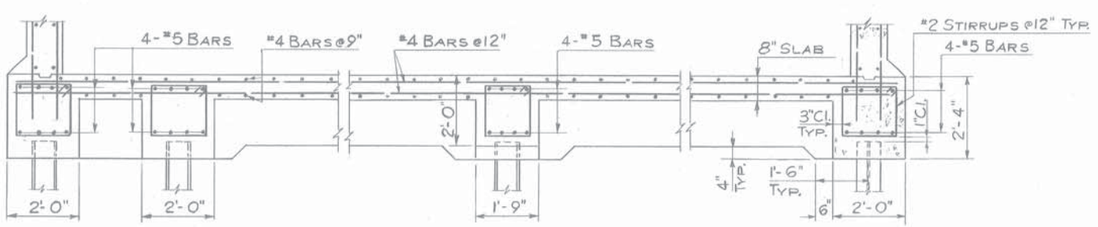
SECTIONS F-A7 & G-A7
½" = 1'-0"



SECTION K-A7
½" = 1'-0"



SECTION C-C
½" = 1'-0"



SECTION D-D
½" = 1'-0"

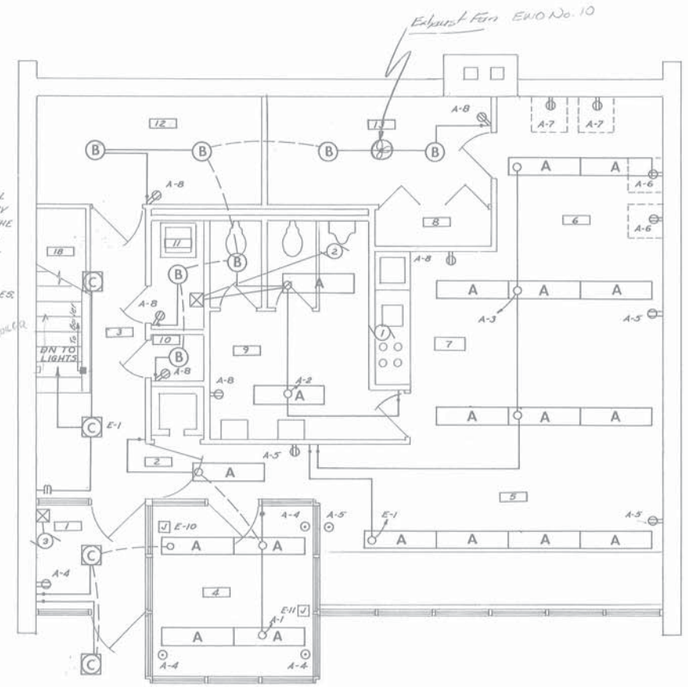
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING
PILE LOCATION PLAN AND REINFORCEMENT DETAILS

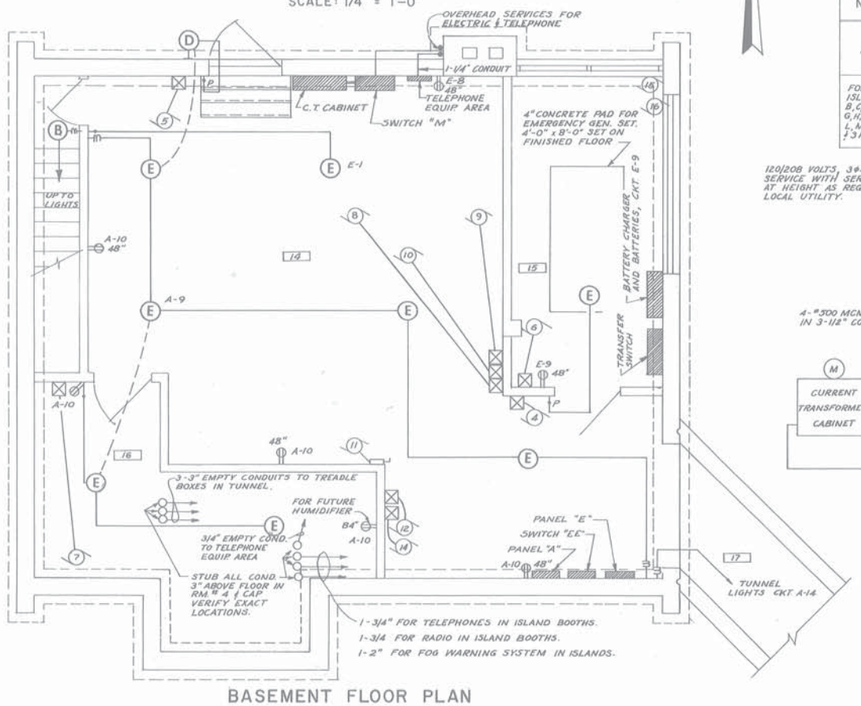
DWG. A-7

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-1(8)	35	58



FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"



BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS NO.	LAMPS ORD. ABB.	DESCRIPTION	MAKE	CATALOG NO.	SHIELDING	FINISH	REMARKS
A	2	F40.CW	ENCLOSED PLASTIC UNIT	HOLOPHANE	7100-4	ACRYLIC LENS	B.W.E.	SURFACE-CEILING
B	2	60A	10" DRUM UNIT	ART METAL	33795L	LENS	SATIN	SURFACE-CEILING
C	1	150A	DOWNLIGHT	ART METAL	15-1015WS	DROP OPAL	WHITE	RECESSED 5"
D	1	150A	WALL BRACKET	ART METAL	3672AH	LENS	ALUMINUM	SURFACE-WALL
E	1	150A	4" PORCELAIN LAMPHOLDER	BRYANT	5228WG	WIREGUARD	PORCELAIN	OUTLET BOX
F	4	F20T12CW	SURFACE MOUNTED UNIT	ROBERT	4700-4	—	—	SEE TOLL BOOTH DRWG.
G	1	F40CW	ENCLOSED PLASTIC UNIT	PARAMOUNT	626H	PLASTIC	B.W.E.	SURFACE IN TUNNEL

MOTOR AND STARTER SCHEDULE

MTR. NO.	LOCATION	DESCRIPTION	KW	HP	Ø	VOLTS	CIRC. NO.	BKR.OR FUSE POLE	BKR.OR FUSE AMP.	STARTER NOMENCLATURE BULLETIN & FORM NO.	LOCATION	FURN. BY	INTER-LOCKED MOTOR	ACT-UATING MOTOR	REMARKS
1	RM.7	KITCHENETTE	8.9		1	120/208	A-11	2	50	—	—	—	—	—	
2	RM.9	EXHAUST FAN # EF-1		1/12	1	120	A-2	—	—	600 TAX 216	RM.11	T.C.C.	—	—	CONNECT TO LIGHT SWITCH CIRCUIT
3	RM.1	CAB. UNIT HEATER		1/20	1	120	A-12	1	20	SEE HTG. SPECS.	NEAR UNIT	T.C.C.	—	—	
4	RM.14	UNIT HEATER # UH-1		1/45	1	120	A-12	—	—	600 TAX 4			—	—	
5	RM.14	UNIT HEATER # UH-2		1/45	1	120	A-12	—	—				—	—	
6	RM.15	UNIT HEATER # UH-3		1/45	1	120	A-12	—	—				—	—	
7	RM.16	UNIT HEATER # UH-4		1/45	1	120	A-12	—	—				—	—	
8	RM.14	CIRCULATOR # CIR-1		1/4	1	120	E-2	1	20	709 TAD H-0-A			—	—	
9	RM.14	CIRCULATOR # CIR-2		3/4	3	208	E-3	3	20				—	—	
10	RM.14	BOILER		1/2	3	208	E-4	3	20				—	—	
11	RM.14	HOT WATER HEATER	5.0		1	208	A-13	2	30	—			—	—	DISCONNECT SW.
12	RM.14	SUMP PUMP		3/4	3	208	E-5	3	20	709 TAD H-0-A			—	—	FLOAT SWITCH & MECH. ALTERNATOR
13	TOLL BOOTHS	UNIT HEATERS		1/13	1	120	SEE PLAN	1	20	600 TAX 4			—	—	
14	RM.14	SUMP PUMP		3/4	3	208	E-6	3	20	709 TAD H-0-A			—	—	FLOAT SWITCH & MECH. ALTERNATOR
15	RM.15	MOTORIZED LOUVER			1	120	E-7	1	20	—	—	—	—	—	SEE NOTE #1
16	RM.16	MOTORIZED LOUVER			1	120	E-7	—	—	—	—	—	—	—	SEE NOTE #1
17	TUNNEL	UNIT HEATER		1/30	1	120	SEE PLAN	1	20	600 TAX 4	NEAR UNIT	T.C.C.	—	—	
18	WELL	WELL PUMP		2	3	208	E-12	3	20	AB712 FORM 3, 2	BOILER RM.				SUPPLY STARTER WITH OL-RELAY & 120V COIL

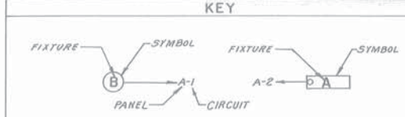
NOTE #1: CONNECT CIRCUIT E-7 VIA AUXILIARY CONTACTS IN EMERGENCY SWITCH.

PANELBOARD SCHEDULE

NO.	BKR. OR FUSE NO.	POLE	AMP	MAIN BUS AMP	MAIN BUS TYPE	MAKE	CATALOG NO.	MOUNTING	LOCATION	REMARKS
A	16	1	20							
	1	2	30	100	3Ø4W	SQUARE D	NQOB-4AB	SURFACE	RM. 14	
	1	2	50							
FOR ISLANDS B, C, D, F, G, H, J, K, L, M, N, O, P & FUTURE	9	1	20							
	3	1	30	100	3Ø4W	SQUARE D	NQOB-4L	SURFACE	TUNNEL UNDER TOLL PLAZA	PROVIDE SUB-FEED LUGS ON 2 PUT. WEST, B, C, F, G, H, J, L, M, N, O,

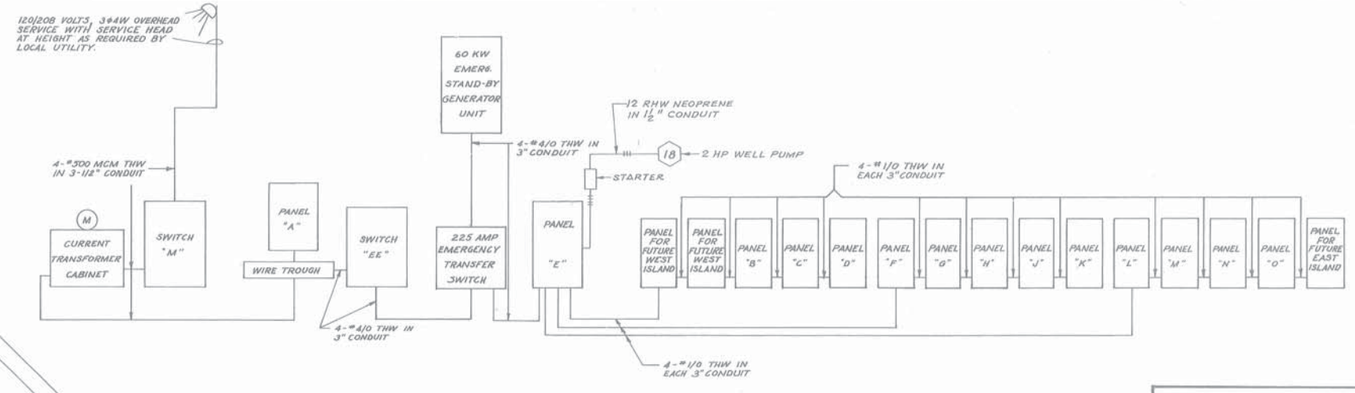
NO.	BKR. OR FUSE NO.	POLE	AMP	MAIN BUS AMP	MAIN BUS TYPE	MAKE	CATALOG NO.	MOUNTING	LOCATION	REMARKS
E	12	1	20							
	5	3	20	200	3Ø4W	SQUARE D	NQOB-4L	SURFACE	RM. 14	
	3	3	100							
EE	1	3	200	200	3Ø4W	SQUARE D	H324N	SURFACE	RM. 14	PROVIDE FUSES AS REQUIRED
M	1	3	400	400	3Ø4W	SQUARE D	H325N	SURFACE	RM. 14	PROVIDE FUSES AS REQUIRED

KEY



ELECTRICAL SYMBOLS

	FLOURESCENT LIGHTING FIXTURE
	RECESSED INCANDESCENT LIGHTING FIXTURE
	INCANDESCENT LIGHTING FIXTURE-SURFACE
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	SWITCH & DUPLEX RECEPTACLE IN SAME OUTLET BOX
	DUPLEX RECEPTACLE
	DUPLEX FLOOR RECEPTACLE (LEW # 6325B-DFB)
	INCANDESCENT WALL MTD. LIGHTING FIXTURE
	SWITCHED CIRCUIT
	BRANCH CIRCUIT
	MOTOR OR SPECIAL OUTLET
	TELEPHONE FLOOR OUTLET
	DISCONNECT SWITCH
	JUNCTION BOX
	DOOR SWITCH
	SWITCH WITH PILOT LIGHT
	MOTOR CONTROLLER
	OIL BURNER EMERGENCY SHUT OFF SWITCH



SERVICE RISER

NOT TO SCALE

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING

ELECTRICAL DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

NEW YORK BOSTON KANSAS CITY

YORK (8)

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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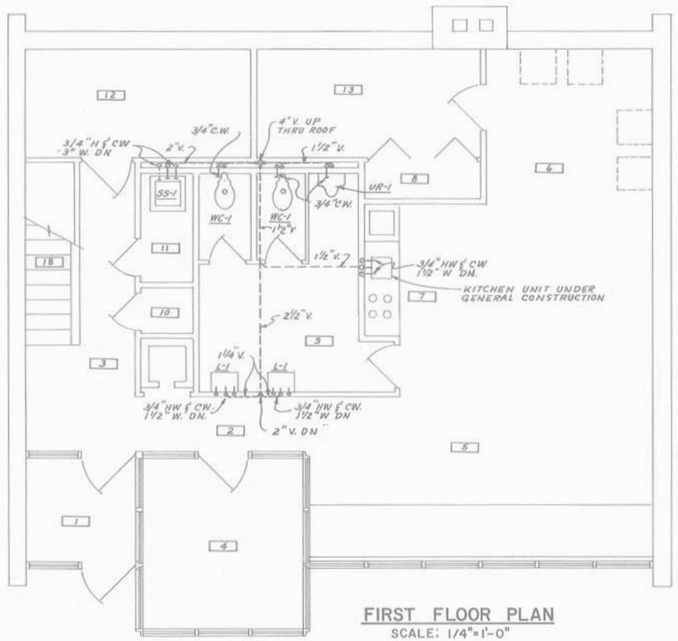
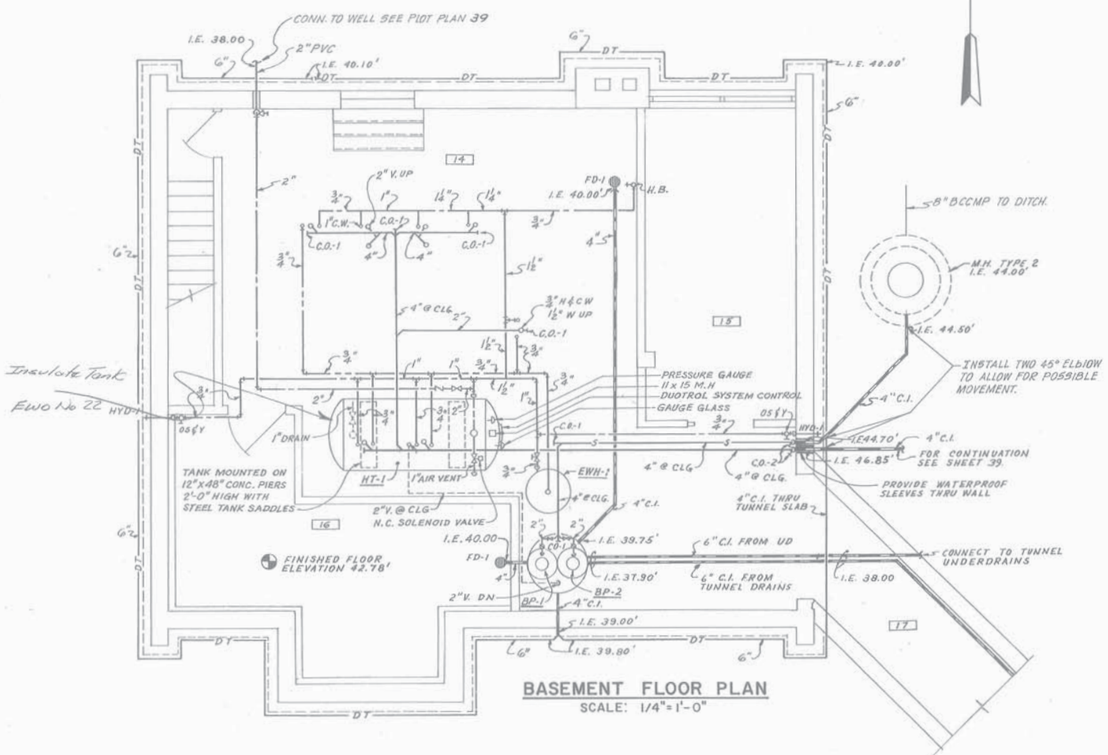


FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"



BASEMENT FLOOR PLAN
SCALE: 1/4"=1'-0"

INSIDE SERVICES MATERIAL SCHEDULE

SERVICES	MATERIAL SYMBOL	DESCRIPTION	SPECIFICATION	REMARKS
STORM & SANITARY SEWERS (BELOW FLOOR)	C.I.	EXTRA HEAVY SOIL PIPE	CS-188 COATED	LEAD & OAKUM JOINTS
	V.C.P.	VITRIFIED CLAY PIPE	EXTRA STRENGTH ASTM-C-200	ASTM C-425 FACTORY APPLIED JOINTS
	R.C.P.	REINFORCED CONCRETE PIPE	C-76	RUBBER GASKET JOINTS C-443
SOIL, WASTES & VENTS (4" & LARGER) (ABOVE FLOOR)	NONE	EXTRA HEAVY SOIL PIPE	CS-188 COATED	LEAD & OAKUM JOINTS
WASTES & VENTS (3" & SMALLER) (ABOVE FLOOR)	NONE	STEEL PIPE	SCHEDULE 40-ASTM A53-GALVANIZED	
		EXTRA HEAVY SOIL PIPE	CS-188 COATED	CONTRACTORS OPTION FOR 3" ONLY
CONDUCTORS	NONE	STEEL PIPE	SCHEDULE 40-ASTM A53-GALVANIZED	
		EXTRA HEAVY SOIL PIPE	CS-188 COATED	
WATER PIPING ABOVE GROUND	NONE	STEEL PIPE	SCHEDULE 40-ASTM A53-GALVANIZED	
WATER PIPING UNDERGROUND	NONE	COPPER TUBE	TYPE K-ASTM B-88 HARD	IPS BRASS PIPE, FITTINGS & NIPPLES FOR ALL SCREWED CONNECTIONS
DRAIN TILE	NONE	VITRIFIED CLAY PIPE & FITTINGS	STANDARD STRENGTH ASTM-C-13	OPEN JOINTS CONCENTRICALLY ALIGNED WITH BROKEN V.T.
		VITRIFIED CLAY PIPE & FITTINGS	STD. STRENGTH ASTM C-211 REINFORCED C-13 FITTINGS	OAKUM & CEMENT JOINTS AT ALL JOINTS, FITTINGS, BRANCHES, ETC.
		DRAIN TILE	ASTM C-4 WITH C-13 FITTINGS	SHALE OR FIRE CLAY

INSIDE SERVICES MATERIAL SCHEDULE

FITTINGS	MATERIAL SYMBOL	DESCRIPTION	SPECIFICATION	REMARKS
SOIL	NONE	EXTRA HEAVY SOIL	CS-188 COATED	
WASTES	NONE	CAST IRON DRAINAGE PATTERN	ASA-B-16.12 COATED	
VENTS	NONE	CAST IRON	ASA-B-16.4 BLACK	
CONDUCTORS	NONE	CAST IRON DRAINAGE PATTERN	ASA-B-16.12 COATED	
		EXTRA HEAVY SOIL	CS-188 COATED	
WATER LINES	NONE	2" DN. MALLEABLE	ASA. B-16.3 GALVANIZED	
		2½" UP CAST IRON	ASA-B-16.1 GALVANIZED	
		WROUGHT COPPER, SOLDERED	ASA-B-16.22	FLARE TYPE FOR UNDERGROUND
		CAST BRASS SOLDERED	ASA-B-16.18	FOR UNAVAILABLE WROUGHT SIZES
SCREWED UNIONS & FLANGES	NONE	2" DN. MALLEABLE	WALWORTH #7716 OR #7766	BLACK OR GALVANIZED TO MATCH PIPING
		2½" UP-CAST IRON	ASA-B-16.1 125# CORP FLANGES	BLACK OR GALVANIZED TO MATCH PIPING
COPPER UNIONS & FLANGES	NONE	2" DN. GROUND JOINT	NIBCO-SERIES 733 OR EQUAL	
		2½" UP- COMPANION	NIBCO-SERIES 741 OR EQUAL	BRASS MACHINE BOLTS
INSULATING UNIONS	NONE	2" DN.-DIELECTRIC	EPCO-FX-C-PIPS OR EQUAL	REQUIRED FOR ALL CONNECTIONS OF COPPER TUBE TO FERROUS PIPING OR EQUIPMENT
		2½" UP-DIELECTRIC	EPCO-GX-C-PIPS OR EQUAL	
NIPPLES	NONE	CLOSE, SHOULDER, SHORT	SCHEDULE 80	BLACK OR GALVANIZED TO MATCH PIPE
		LONG	SAME SCHEDULE AS PIPE	

OUTSIDE SERVICES MATERIAL SCHEDULE

SERVICES	MATERIAL SYMBOL	DESCRIPTION	SPECIFICATION	REMARKS
STORM & SANITARY	V.C.P.	VITRIFIED CLAY PIPE & FITTINGS	ASTM C-13	ASTM C-425 FACTORY APPLIED JOINTS
	V.C.P.	VITRIFIED CLAY PIPE & FITTINGS	ASTM C-200 EXCEPT FULL INSIDE DIAMETER	ASTM C-425 FACTORY APPLIED JOINTS (WEDGE LOCK)
	C.I.	EXTRA HEAVY SOIL PIPE & FITTINGS	CS-188 COATED	OAKUM & LEAD JOINTS
	R.C.P.	CONCRETE PIPE, TONGUE & GROOVE	ASTM C76	C-443 NEOPRENE GASKET JOINTS
WATER	C.I.	CAST IRON B&S	ASA-A21.6 CLASS 24	LEAD & JUTE JOINTS
	*	FITTINGS B&S	ASA-A21.10 250# W.P.	LEAD & JUTE JOINTS
	P.V.C	POLYVINYL CHLORIDE PLASTIC PIPE	TYPE I GRADE 2	N.S.F. APPROVED & LABEL
		FITTINGS - SOCKET		WELDED JOINTS

* CONTRACTOR MAY AT HIS OPTION SUBSTITUTE MECHANICAL JOINT PIPE, VALVES AND FITTINGS OF SIMILAR CLASS IF APPROVED AND/OR REQUIRED BY LOCAL AUTHORITIES

ELECTRIC HOT WATER HEATER SCHEDULE

MARK NO: EWH-

MARK NO.	LOCATION	MFGR	RECOVERY GPH	STORAGE CAP. GAL.	ELEMENT UPPER	ELEMENT LOWER	CURRENT	LINING	RELIEF VALVE	THERM. SETTING	REMARKS
EWH-1	BOILER RM	RHEEM	20@100°	30	2500	2500	208/1/60	GLASS	ASME	120°F	IMPERIAL-ELEMENTS WIRED FOR SIMULTANEOUS OPERATION

BILGE PUMP SCHEDULE

MARK NO: BP-

MARK NO.	LOCATION	MFGR.	MODEL	TYPE	MOTOR H.P.	MOTOR R.P.M.	MOTOR CURRENT	MOTOR NO.	GPM	HEAD FT. H_2O	BASIN DEPTH	BASIN DIA.	BASIN TYPE	BASIN COVER	VENT	AUTOMATIC ALTERNATOR	HIGH WATER ALARM	REMARKS
BP-1	BOILER RM.	CHICAGO PUMP	LGL-2	VERT.	3/4	1750	208/3/60	12	80	18	8'-0"	36"	C.I.	C.I.	2"	MECHANICAL	YES	
BP-2	BOILER RM.	CHICAGO PUMP	LGL-2	VERT.	3/4	1750	208/3/60	14	80	18								

FLOOR DRAIN SCHEDULE

MARK NO: FD-

MARK NO.	MANUFACTURER	MODEL NUMBER	REMARKS
FD-1	JOSAM	SERIES 7724	

CLEANOUT SCHEDULE

MARK NO: CO-

MARK NO.	MANUFACTURER	MODEL NUMBER	REMARKS
CO-1	JOSAM	SERIES Y50	
CO-2	JOSAM	SERIES Y150	

PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION
S.S.	SOIL STACK
S.	SOIL
W.	WASTE
V.	VENT
V.S.	VENT STACK
V.T.R.	VENT THRU ROOF
T.R.	THRU ROOF
D.I.	DUR-IRON
V.C.P.	VITRIFIED CLAY PIPE
C.I.	EXTRA HEAVY SOIL PIPE
D.T.	DRAIN TILE
C.W.	COLD WATER
H.W.	HOT WATER
L.	LAVATORY
W.C.	WATER CLOSET
U.	URINAL
S.S.	SERVICE SINK
F.D.	FLOOR DRAIN
C.O.	CLEAN OUT
M.H.	MANHOLE
HYD.	HYDRANT
G.A.V.	GATE VALVE
I.E.	INVERT ELEVATION (FLOW LINE)
ELEV.	ELEVATION
CLG.	CEILING
TYP.	TYPICAL
CONN.	CONNECTION

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	UNDERGROUND SANITARY SEWER
	UNDERGROUND STORM SEWER
	UNDERGROUND VENT
	SOIL, WASTE ABOVE GROUND
S	STORM ABOVE GROUND
	VENT ABOVE GROUND
DT	DRAIN TILE
	COLD WATER
	HOT WATER
CO- CO-	CLEAN OUT IN FLOOR
CO-	CLEAN OUT IN RISER
LINE RISER	GATE VALVE
	CHECK VALVE
HYD.	WALL HYDRANT
H.B.	HOSE BIBB
FD- FD-	FLOOR DRAIN

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING

PLUMBING DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
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NEW YORK BOSTON KANSAS CITY

YORK (8)

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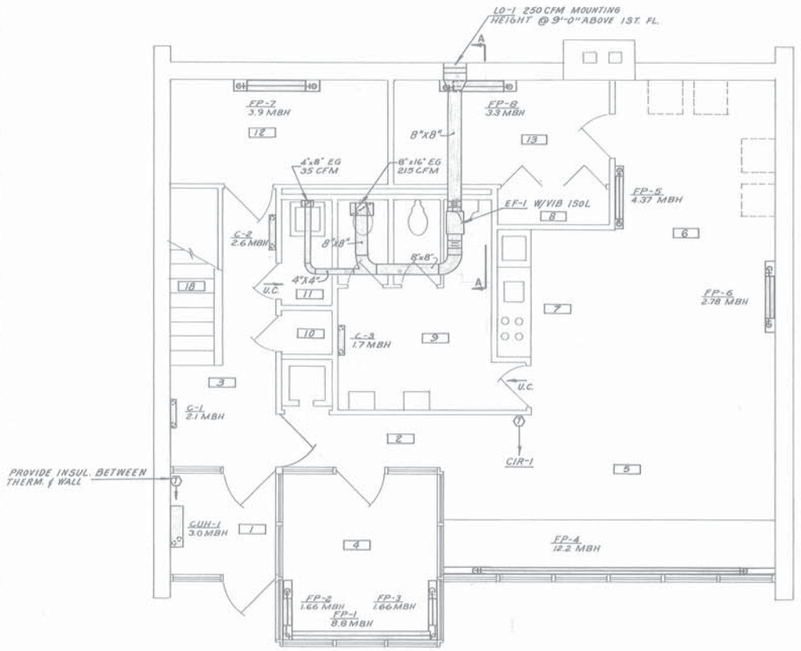
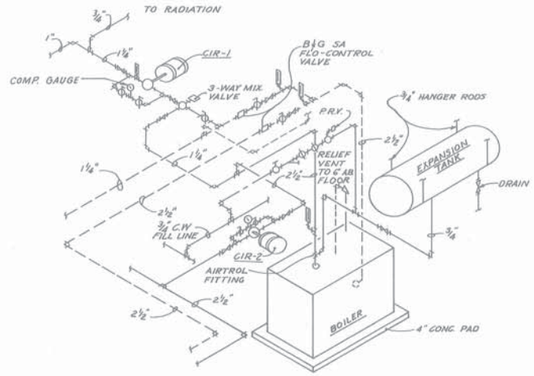
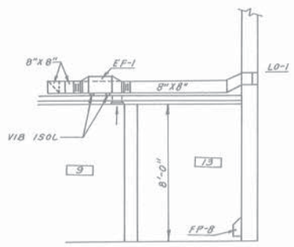


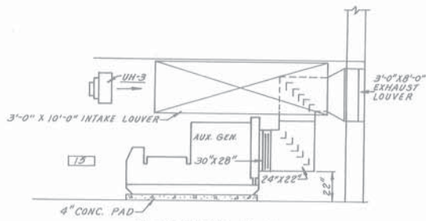
FLOOR PLAN
SCALE: 1/4" = 1'-0"



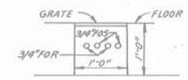
BOILER PIPING ISOMETRIC
NO SCALE



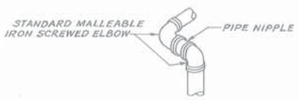
SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"

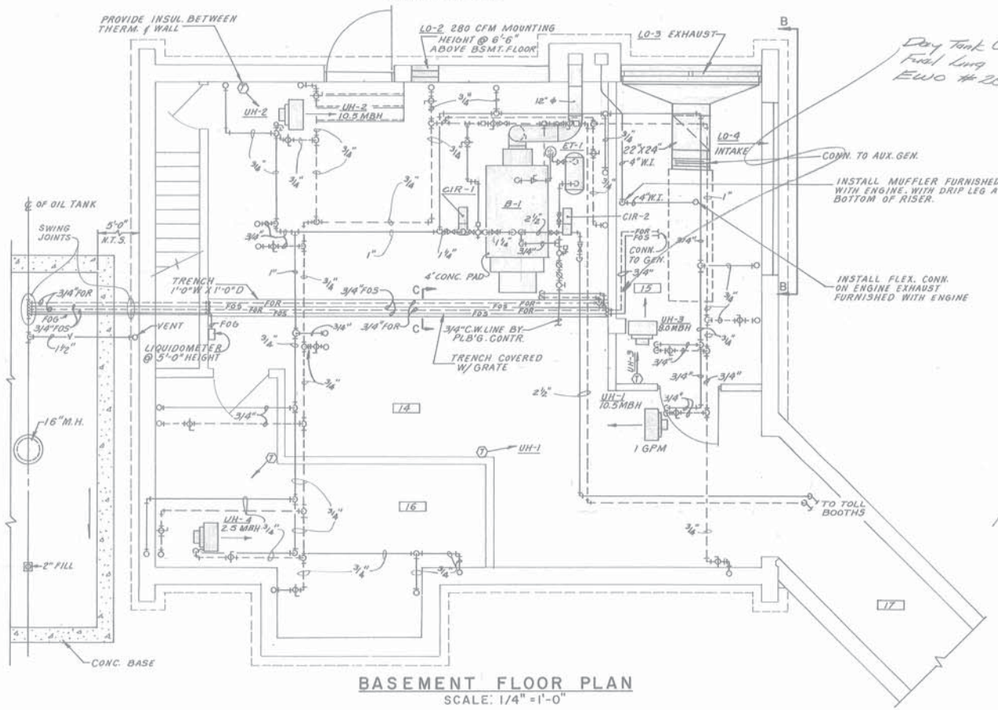


SECTION C-C
SCALE: 3/4" = 1'-0"



TYPICAL CLOSE COUPLE SWING JOINTS
NO SCALE

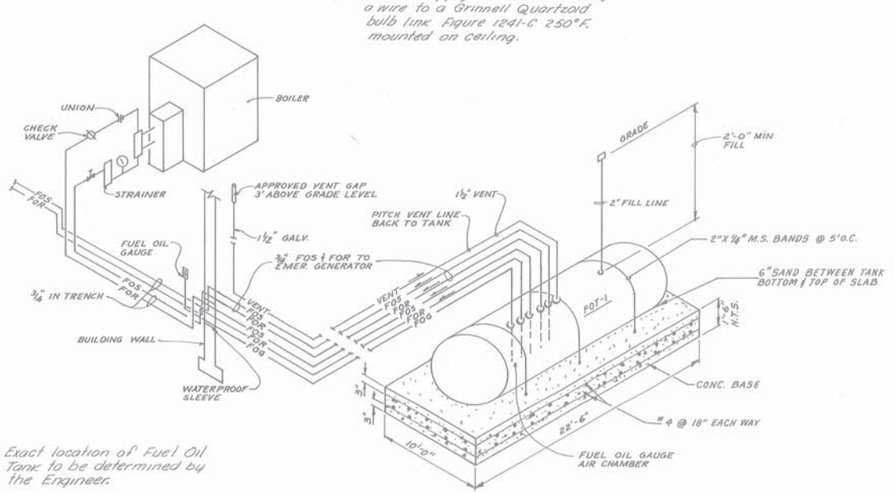
SWING JOINTS TO BE USED AT TANK AND OUTSIDE FACE OF BUILDING FOR ALL PRODUCT AND VENT LINES.



BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

Note: Exact location of Fuel Oil Tank to be determined by the Engineer.

NOTE: Install Crain #7½ globe valve in fuel oil supply line connected by a wire to a Grinnell Quartzoid bulb link Figure 1241-C 250°F. mounted on ceiling.



FUEL OIL PIPING SCHEMATIC
NO SCALE

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

UTILITY BUILDING

HEATING & VENTILATING PLAN

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

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FINNED PIPE RADIATION SCHEDULE — MARK No: FP-

MARK No.	LOC.	MFR.	MODEL	CAPACITY MBH	CAPACITY EDR	HTG. MEDIUM	ELEMENT PIPE SIZE	ELEMENT FINS PER IN.	ELEMENT LENGTH	CABINET D.	CABINET L.	CABINET H.	MTG. HGT. TO TOP	DPR.	No. OF ROWS
FP-1	4	TRANE	12S	8.8	—	200° AVG	½" STL.		8'-0"	6"	9'-0"	12"	1'-4"	YES	ONE
FP-2	4			1.66	—				1'-6"		3'-0"				
FP-3	4			"	—				1'-6"		"				
FP-4	5		10TA	12.2	—		1" CU-AL		16'-6"	4"	19'-0"	10"	*		
FP-5	6		16S	4.37	—		½" STL.		2'-6"	6"	4'-0"	16"	1'-8"		TWO
FP-6	7		12S	2.78	—				"		"	12"	1'-4"		ONE
FP-7	12			3.9	—				3'-6"		5'-0"				
FP-8	13			3.3	—				3'-0"		4'-6"				

* FLUSH W/ COUNTER TOP

UNIT HEATER SCHEDULE — MARK No: UH-

MARK No.	LOC.	MFR.	MODEL	CAP. MBH	CAP. EDR	HTG. MED.	GPM	T_F	P.D.	TEMP. DROP	CFM	MOTOR HP	MOTOR CURRENT	MOTOR No.	RPM
UH-1	14	TRANE	20WF	10.5	—	200° F	1.08	90.7	.04	20°	315	1/45	120/60/1	4	1050
UH-2	14			"	—		"	"	"		"			5	"
UH-3	15			8.0	—		.8	90.0	.03		250			6	830
UH-4	16			2.5	—		.25	90.0	.01		85			7	285
UH-5 — 13	TOLL BOOTHS	AAF	HU-1210	308 / 342	—		96.0	96	0.3		1050 / 692	1/15		13	1350 / 1050
UH-14 * 15	TUNNEL	TRANE	38-S	19.1	—		1.97	92.4	.08		543	1/30		17	1350

CONVECTOR RADIATION SCHEDULE — MARK No: C-

MARK No.	LOC.	SEE DET. No.	M.F.G.	MODEL	ELEMENT D.	ELEMENT L.	CABINET D.	CABINET L.	CABINET H.	CAPACITY MBH	CAPACITY EDR	HTG. MED.	RECESS DEPTH	HTG. AB. ARCH. BASE	END POCK	DPR.
C-1	3	—	TRANE	FK	4"	20"	4"	20"	24"	2.1	—	200° F	—	5"	—	YES
C-2	3	—			4"	24"	4"	24"	24"	2.6	—		—	5"	—	
C-3	9	—			4"	20"	4"	20"	20"	1.7	—		—	5"	—	

CABINET UNIT HEATER SCHEDULE — MARK No: CUH-

MARK No.	LOC.	SEE DET. No.	MFG.	MODEL	CAPACITY MBH	CAPACITY EDR	HTG. MED	GPM	F.T.	CFM	SIZE D.	SIZE L.	SIZE H.	MOTOR H.P.	MOTOR CURRENT	MOTOR No.	RPM
CUH-1	1	—	TRANE	042-03	3.0	—	200° F	0.3	93° F	100	9"	28"	27½"	—	120/60/1	3	

CIRCULATING PUMP SCHEDULE — MARK No: CIR-

MARK No.	LOC.	MFR	MODEL	GPM	FT. H_2O	TEMP.	MOTOR H.P.	MOTOR CURRENT	MOTOR No.	SERVICE	REMARKS
CIR-1	14	B/G	1AA	8.5	14	200° F	¼	120/60/1	8	BLDG.	USE ARTIFICIAL HD.
CIR-2	14		2AA	65.0	23		¾	208/60/3	9	BOOTHS	

EXPANSION TANK SCHEDULE — MARK No: ET-

MARK No.	LOC.	MFR.	SIZE	GAL. CAP.	CONSTR.	W.P.	TAPPINGS GAUGE GLASS	TAPPINGS EXP LINE	TAPPINGS DRAIN	TAPPINGS AIR PRESS.	SERVICE	REMARKS
ET-1	BOIL. RM.	B/G	30"D x 72"L	200	ASME	125	½"	¾"	¾"	—	BOILER	

30"D x 72"L 200

BOILER SCHEDULE — MARK No: B-

MARK No.	MFR.	MODEL	GROSS RATING (MBH)	W.P. PSI	DESIGN PRESS. PSI	SERVING	OIL TYPE	OIL GPH	GAS TYPE	GAS CFH	BURNER H.P.	BURNER CURRENT	BURNER No.
B-1	AM. STD.	3R10-FO	1440	30	30	HTG.	#2	12.9	—	—	½	208/60/3	10

FUEL STORAGE TANK SCHEDULE — MARK No: FOT-1

MARK No.	MFG.	SERVING	SEE DET. No.	TANK DIAM.	TANK LGTH.	CAP. (GAL.)	M.H. DIAM.	THICKNESS H.D.	THICKNESS SH.	FOUNDATION	TYPE OF FUEL	REMARKS
FOT-1	ADAMSON	BOILER GEN.	—	96"	21'-6"	8000	16"	½"	¼"	CONCRETE @ 46.000#	#2	1½" VENT, 2" FILL

EXHAUST FAN SCHEDULE — MARK No: EF-

MARK No.	LOC.	MFR.	MODEL	CFM	S.P. (H_2O")	RPM	O.V. (FPM)	WHL. DIA.	ARR.	DPR.	MOTOR H.P.	MOTOR CURRENT	MOTOR No.	SERVICE
EF-1	ABOVE TOILET CLG.	PENN	REX-07Q	250	.09	1750	3200	7"	—	—	½2	120/60/1	2	TOILET

EXHAUST AND RETURN GRILLE SCHEDULE

LOC.	No. REQ'D.	CFM EACH	MTG. HT. TO BOTTOM	EXHAUST OR RETURN	MODEL	DAMPER	SIZE	REMARKS
11	1	35	CLG.	EXH.	TXO	—	4"X8"	BARBER COLMAN
9	1	215	"	"	"	—	16"X8"	BARBER COLMAN

LOUVER SCHEDULE (W/ ½" BIRD SCREEN) — MARK No: LO-

MARK No.	LOC.	SERVING UNIT No.	MFR.	MODEL	CFM	SIZE W.	SIZE H.	MAX. S.P. IN W.C.	MAX. VEL. FPM	REMOV. CORE	TYPE BLADE	CONSTRUCTION
LO-1	N. WALL 1ST. FL.	EF-1	TITUS	TEZ OAL-77	250	15 5/8"	7 5/8"	.04	630	—	EXT. AL	—
LO-2	N. WALL BSMT.	B-1		OXL-01	280	18"	16"	.05	500	—		—
LO-3		GEN. EXH.			12,000	8'-0"	3'-0"	.04		—		MOT. DMPR.
LO-4		GEN. INTAKE			"	10'-0"	3'-0"	.05		—		MOT. DMPR.

HYDRO-PNEUMATIC TANK SCHEDULE

MARK NO.	LOCATION	MFR.	SIZE	ACTUAL STORAGE	HEAD THICK	SHELL THICK	CODE	CERTIF.	REMARKS
HT-1	BASEMENT	ADAMSON	48"X96"	752	25/64"	5/16"	125	ASME	

WELL PUMP SCHEDULE

MARK No.	LOCATION	MFR.	MODEL	TYPE	GPH	HEAD PSI	MOTOR HP	MOTOR No.	MOTOR CURRENT	WELL DEPTH	REMARKS
WP-1	WELL	JACUZZI	254C	SUBMERSIBLE	1030	70	2	18	208/3/60	150'	

SYMBOL & ABBREVIATION SCHEDULE

SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION
	GATE VALVE		EXHAUST OR RETURN DUCT (DOWN OR AWAY)
	GLOBE VALVE		CANVAS CONNECTION
	CHECK VALVE		VOLUME DAMPER
	PRESSURE REDUCING VALVE	U.C.	UNDERCUT DOOR (BY OTHERS)
	THREE-WAY CONTROL VALVE	R	RISE IN DUCT ELEVATION IN DIRECTION OF FLOW
	RELIEF VALVE	T	ELECTRIC THERMOSTAT
	BALANCING COCK	P	PRESSURE GAUGE
	STRAINER	E.G.	EXHAUST GRILLE
	UNION		HOT WATER SUPPLY
	THERMOMETER		HOT WATER RETURN
	REDUCERS - CONCENTRIC & ECCENTRIC	V	VENT LINE
	PIPING - TOP TAKEOFF	FOS	FUEL OIL SUPPLY
	PIPING - BOTTOM TAKEOFF	FOR	FUEL OIL RETURN
	PIPE PITCH DOWN	FOG	FUEL OIL GAUGE LINE
	FLOW DIRECTION IN PIPES		COLD MAKEUP WATER
	SUPPLY OR OUTSIDE AIR DUCT (DOWN OR AWAY)	D	DRAIN LINE
	EXHAUST DUCT (UP OR SECTION)		

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

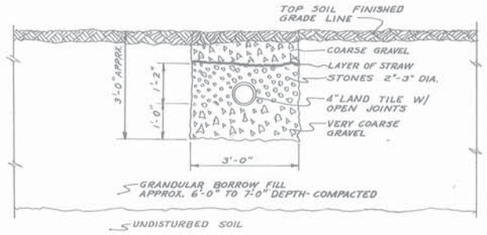
UTILITY BUILDING

MECHANICAL EQUIPMENT SCHEDULES

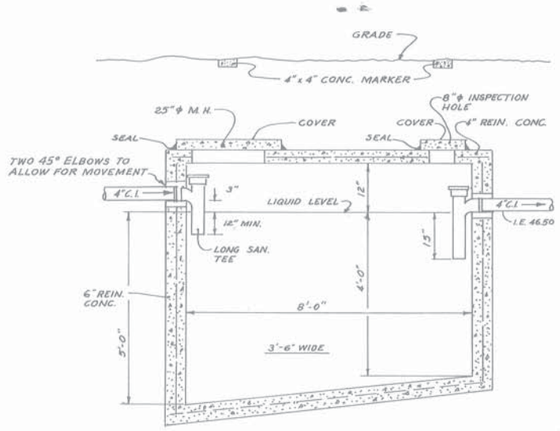
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

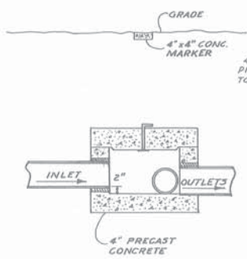
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	39	58



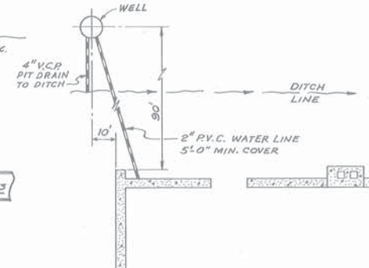
SECTION A-A
NO SCALE



SECTION B-B
NO SCALE



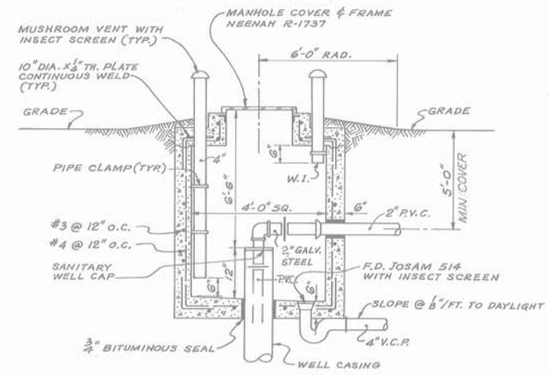
DISTRIBUTION BOX
NO SCALE



SEEPAGE FIELD BASIS FOR DESIGN

LF = 10 PEOPLE X 60 L.F./PERSON X 1/4 = 150 L.F.
(REDUCTION FOR DAY USE)

PLUMBING PLOT PLAN
NOT TO SCALE



NOTE:
BOTTOM & SIDEWALLS OF WELL PIT TO BE MADE IN ONE CONTINUOUS CONCRETE POUR.

DEEP WELL PUMP PIT
NO SCALE

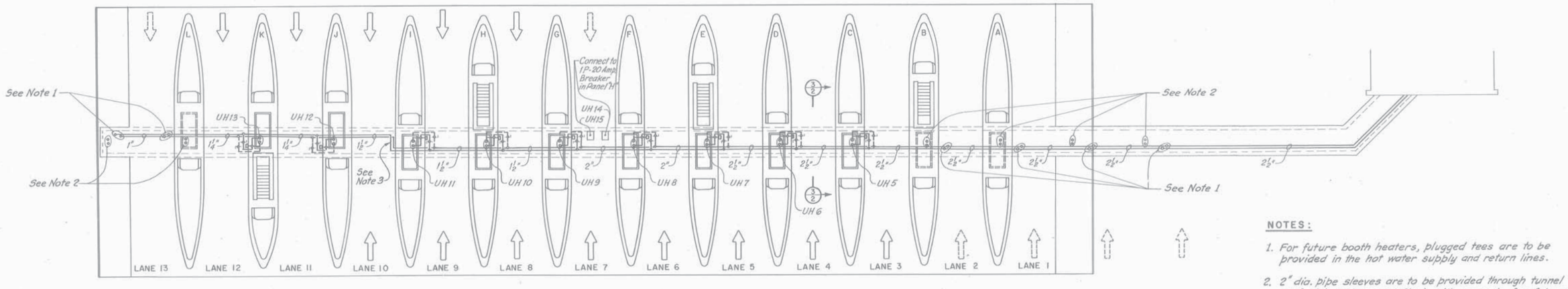
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

PLUMBING & WELL DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

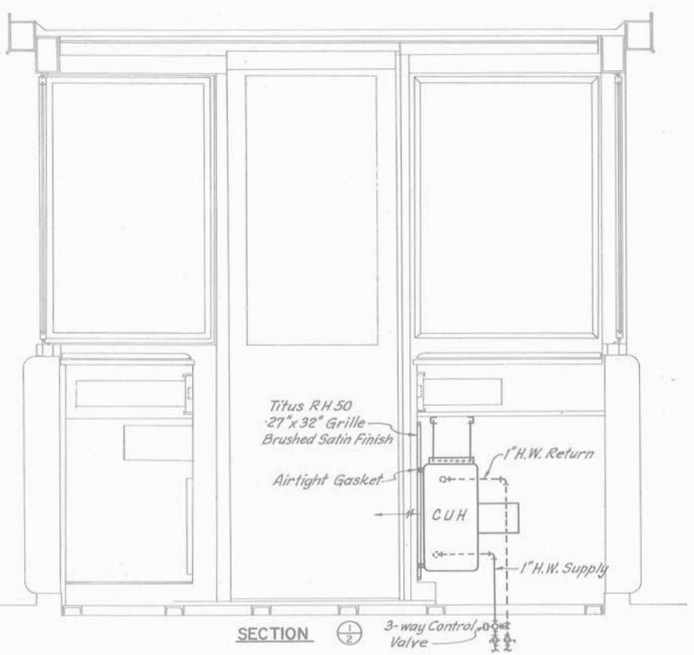
YORK (8)

BPR REG NO	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-1(8	40	58

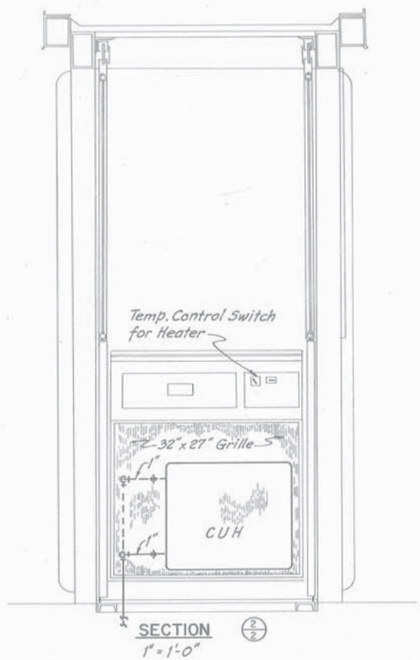


NOTES:

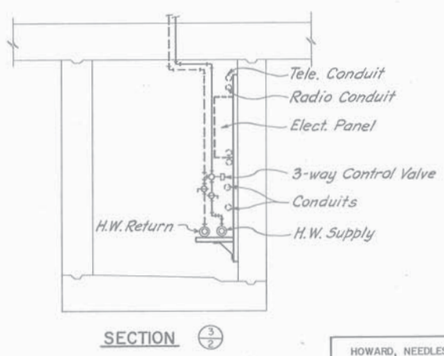
1. For future booth heaters, plugged tees are to be provided in the hot water supply and return lines.
2. 2" dia. pipe sleeves are to be provided through tunnel roof slab and capped flush with concrete for future toll booth heaters.
3. Piping for booth heaters to switch from NE tunnel wall to SW tunnel wall between Island "I" and "J" by going across ceiling.
4. Piping to tunnel space heaters UH14 & UH15 to be the same as for booth heaters.



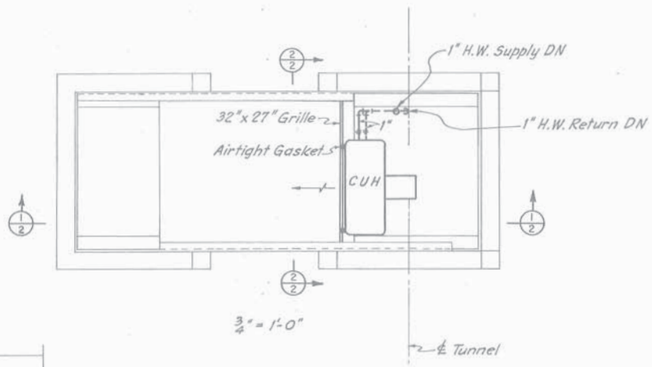
SECTION (1/2)



SECTION (2/2)
1" = 1'-0"



SECTION (3/2)



MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TOLL BOOTH & TUNNEL HEATING PLAN

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

YORK (8)

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-1(8)	41	58

LIGHTING

LEGEND

- Light Standard (400 Watt)
- Light Standard (1000 Watt)
- Junction Box
- 120' Conduit

NOTES:

1. All light standards shall use 15' arms.
2. Mounting height to be 90'.

Sta 53+44.88 Chases Pond Road +
Sta 250+80.23 Access Road

Access Road Curve Data
Δ = 39°-15' Lt.
D = 38°-12'
T = 53.48'
L = 102.74'
R = 150.00'

Sta 53+05± to Sta 54+05± Rt. (Chases Pond Rd)
Remove existing guard rail. Payment for removal shall be considered incidental to the various contract items.

Turnpike Curve Data
P.I. Sta. 276+19.57
Δ = 42°-08'-30" Lt.
D = 1°-00'-00"
T = 2205.60'
L = 4210.83'
R = 5729.59'
E = 409.70'

Sta 262+00 Access Rd.
Install 18"x44" B.C.C.M.P.
Inv. 39.2 1969

NEPPT Cable (Buried)

Chases Pond Road

Underground Cable

Shore Post

Small to medium Hard & Softwood

Sta. 251+08 Lt & Rt. to Sta. 251+75 Lt & Rt. Access Rd. Install G.R. Type 3b.

Ramp "B" by others

To Power Supply

Relocated Utility

Sta 252+00 to Sta 253+00 Existing ditch & Back slope

Sta 252+00 Limit of Work

Sta 254+00.00 Begin Project I-95-1(8)

N 56°-50'-00" E

N 60°-50'-00" E

Small to large Hard & Softwood

Hurley Lewis
Cecilia Lewis

Selective Clearing & Thinning

Clearing Limit Line

Construction Slope Line

Access Road

N 53°-25'-59" E

Swampy Area

SWAMPY

Curve #1

Curve #8

Curve #5

Curve #6

8' Shoulder

10' Shoulder

N 44°-50'-00" E

N 48°-45'-57.3" E

N 57°-45'-47" E

N 52°-55'-59" E

Abandon

Const. Slope Line

Small to medium Hard & Softwood

Barb Wire Fence

Ramp "C" by others

Sta. 254+00 to Sta 255+98 Install 6" U.D. Type B. Inv. 42.4 1969

Sta 256+00. Const. C.B. Type B-1. Install 12"x92" R.C.P. Lt. 1970

Sta 256+02 to Sta 256+12 Install 6" U.D. Type B Inv. 42.1± 1969

Leroy H. Plaisted

Clearing

Sta 251+27 to Sta 263+00 Mainline
Sta 251+22 to Sta 261+85 Access Rd

Selective Clearing and Thinning

Sta 254+00 to Sta 263+00 Mainline

Bracing Assembly - Metal Posts

Sta 260+42 Rt	MI TypeII
Sta 251+25 Lt	Access Rd TypeI
Sta 252+39.12 Lt	Access Rd TypeII
Sta 256+22 Lt	Access Rd TypeII
Sta 18+07.01 Rt	Ramp "C" TypeI

CURVE DATA

Curve No.	Δ°	D°	R'	T'	L'	E'
1	16°-00'-00.0" Lt.	3°-00'-00"	1909.86	268.41	533.33	18.77
2	1°-05'-58.9" Rt.	2°-00'-00"	2864.79	27.49	54.99	0.13
3	1°-35'-51.1" Rt.	1°-00'-00"	5729.58	79.88	159.75	0.56
4	13°-35'-51.1" Lt.	3°-00'-00"	1909.86	227.70	453.25	13.53
5	0°-55'-46.9" Rt.	1°-00'-00"	5729.58	46.49	92.97	0.19
6	11°-49'-48.1" Lt.	3°-00'-00"	1909.86	197.87	394.33	10.22
7	12°-00-00.0' Lt.	3°-30'-00"	1637.02	172.06	342.86	9.02
8	8°-04'-02.6 Lt.	3°-00'-00"	1909.86	134.68	268.91	4.74
9	10°-36'-23.7" Lt.	1°-30'-00"	3819.72	354.57	707.11	16.42

Right of Way Monuments

Sta 258+00 219' Rt MI
Sta 252+39.12 50' Lt Access Rd
Sta 18+07.01 125' Rt Ramp "C"

Woven Wire Fence - Metal Posts

Sta 18+07.01 125' Rt Ramp "C" to Sta 263+00 250' Rt MI

Sta 251+25 63' Lt Access Rd to Sta 263+00 318' Lt MI

B.P.R. PARTICIPATION LIMITS ON MAIN LINE PAVEMENT & GRADING

PAVEMENT
10 LANES (APPROX. 158.5' WIDE) & 8' PAVED SHOULDER, LT. & RT.

GRADING LIMITS LEFT
FROM THE OUTSIDE EDGE OF SHOULDER, OF THE 10 LANE PAVING, ON A 4:1 FILL SLOPE TO OLD GROUND.
THE SLOPE LIMIT, IN THE AREA OF THE UTLITY BUILDING, SHALL BE EXTENDED TO INCLUDE THE GRADING AROUND THE BUILDING, OUTSIDE OF THE GRADING LIMITS REQUIRED TO BE DONE UNDER THE UTILITY BUILDING ITEM.
PAVEMENT AN BASE, BEYOND THE OUTSIDE EDGE OF THE PAVED SHOULDER, WILL BE NON-PARTICIPATING.

GRADING LIMITS RIGHT
FROM THE THEORETICAL OUTSIDE EDGE OF SHOULDER, OF THE 10 LANE PAVING, ON A 4:1 FILL SLOPE TO OLD GROUND.

OTHER WORK
THE GRADING BEYOND THE 4:1 SLOPE, AJACENT TO THE MAIN-LINE CONST. SHALL BE CONSIDERED AS NON-PARTIC.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

PLAN

STA 248+00 TO STA 263+00

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

BRUNING 44-303

9:46 to 10:46

(8) YORK

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	42	58

Access Road Curve Data
Δ = 84°-00'-00" Rt.
D = 142°-12'
T = 36.06'
L = 58.65'
R = 40.00'

Turnpike Curve Data
P.I Sta 276+15.57
Δ = 42°-06'-30" Lt.
D = 1°-00'-00"
T = 2205.60'
L = 4210.83'
R = 5729.59'
E = 409.70'

Central Maine Power Co. (Easement)

Sta 272+61 Rt & Lt, Remove Conc. Headwalls and 54"x9' RCP and install 54"x46' RCP Lt and 54"x32' RCP Rt Inv. 35.9

Payment for removal of existing pipe shall be paid for under Item 206.07 Str. Rock Exc. — Drainage & Minor Strs.

Sta 274+47, 9' Lt & 11' Rt. Remove existing Catch Basins and concrete pipe. Payment for removal of Catch Basins and conc. pipe shall be considered incidental to other drainage items.

Sta 274+47, Const. C.B. Type B-1 Install 12"x76' R.C.P. Rt. 1969

Sta 274+49 to Sta 280+00 Install 6" U.D. Type B Inv.@ 280+00 = 43.0 1969

Sta 272+70 to Sta 274+46 Install 6" U.D. Type B Inv. 39.6 1969

Clearing Limit Line

Charles P. Childs
Laura M. Childs

Selective Clearing & Thinning

Construction Slope Line

Utility Bldg.

Type 3a Curb

Curve #2 · Curve #3 · Curve #4 · Curve #9 · Curve #7

P.C. · P.T. · P.I.

8' Shoulder

Curb Type 1

Relocated Steel Conduit

Abandon

Remove

N33°-55'-58.9"E

N47°-31'-50"E

S.C.E.T. Limit Line

MATCH LINE

Sta 265+54.00 Access Road =
Sta 263+50.00 Turnpike

Ida Lindquist

Existing R/W
STA. 281+00.00
END PROJECT I-95-1(8)

LIMIT OF CONSTRUCTION
LIMIT OF WORK

Existing R/W

Leroy H. Plaisted

Clearing
Sta 263+00 to Sta 278+00 Rt

Selective Clearing and Thinning
Sta 263+00 to Sta 278+00 Rt

Bracing Assembly - Metal Posts

Sta 263+36	Lt	Rt Type II
Sta 266+71	Rt	Rt Type II
Sta 270+28	Lt	Rt Type II
Sta 273+00	Rt	Rt Type I
Sta 277+00	Lt	Rt Type I

Right of Way Monuments

Sta 263+00	250' Rt	Rt
Sta 267+00	250' Rt	Rt
Sta 273+00	150' Rt	Rt
Sta 277+00	150' Lt	Rt

Woven Wire Fence - Metal Posts
Sta 263+00 250' Rt to
Sta 273+00 150' Rt Rt

Sta 263+00 318' Lt to
Sta 277+00 150' Lt Rt

Reflectorization of Bit. Concrete
On the First 10' of Type 3a Curb Lt & Rt of Entrances

Sodded Downspouts - Access Rd.
Sta. 263+23 18' Lt
Sta 263+23 69' Rt.

5' · 1' · 1:1
Sodded Downspout

Curb Type 3a - Access Rd

	L.F.
Sta. 263+24 20' Lt. to 78' Lt.	58
Sta. 263+24 15' Rt to 67' Rt.	52
Sta. 263+24 to Sta. 263+41 77' Lt.	17
Sta. 263+23 to Sta. 263+83 71' Rt.	60
Sta. 263+53 to Sta. 263+82 77' Lt.	29
Sta. 263+82 15' Lt. to 78' Lt.	63
Sta. 263+82 15' Rt. to 71' Rt.	56

Curve No.	Point	Station	Offset
1	P.C.	253+26.79	71.13 Lt.
	P.I.	255+96.19	49.41 Lt.
	P.T.	258+64.75	90.46 Lt.
2	P.C.	263+61.80	132.84 Lt.
	P.I.	263+89.93	133.97 Lt.
	P.T.	264+18.07	134.43 Lt.
3	P.C.	266+33.11	133.49 Lt.
	P.I.	267+14.84	131.06 Lt.
	P.T.	267+96.34	125.28 Lt.
4	P.C.	272+44.74	72.68 Lt.
	P.I.	274+10.95	32.45 Lt.
	P.T.	275+00.00	37.00 Lt.
5	P.C.	253+00.00	49.00 Rt.
	P.I.	253+46.49	49.00 Rt.
	P.T.	253+92.97	49.75 Rt.
6	P.C.	259+85.74	88.86 Rt.
	P.I.	261+78.42	115.20 Rt.
	P.T.	263+72.38	107.45 Rt.
7	P.C.	266+07.41	107.03 Rt.
	P.I.	267+76.14	112.78 Rt.
	P.T.	269+43.44	87.64 Rt.
8	P.C.	254+09.97	37.00 Lt.
	P.I.	255+45.50	35.41 Lt.
	P.T.	256+80.44	49.57 Lt.
9	P.C.	268+48.50	58.51 Lt.
	P.I.	272+04.25	25.97 Lt.
	P.T.	275+60.66	37.00 Lt.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

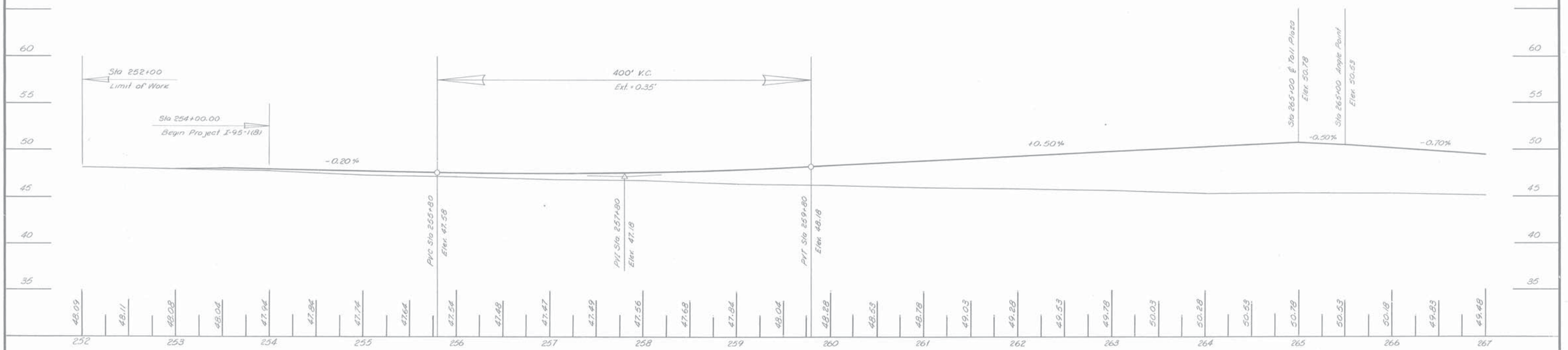
PLAN

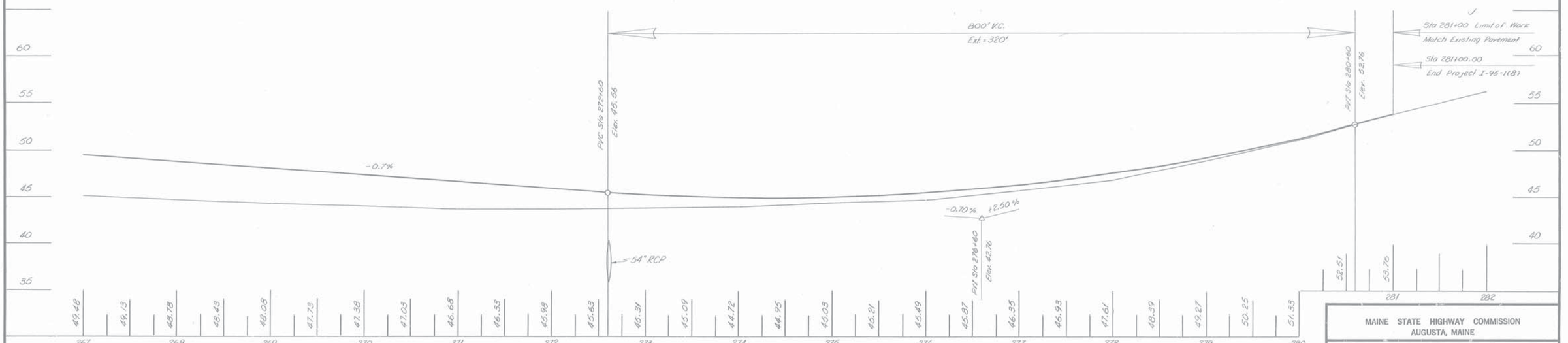
STA 263+00 TO STA 278+00

BRUNING A4-302

(8) YORK

B. P. U. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	43	58





Grubbing
Sta 252+00 to 281+00

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK BOSTON KANSAS CITY

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

PROFILE
STA 252+00 TO STA 282+00

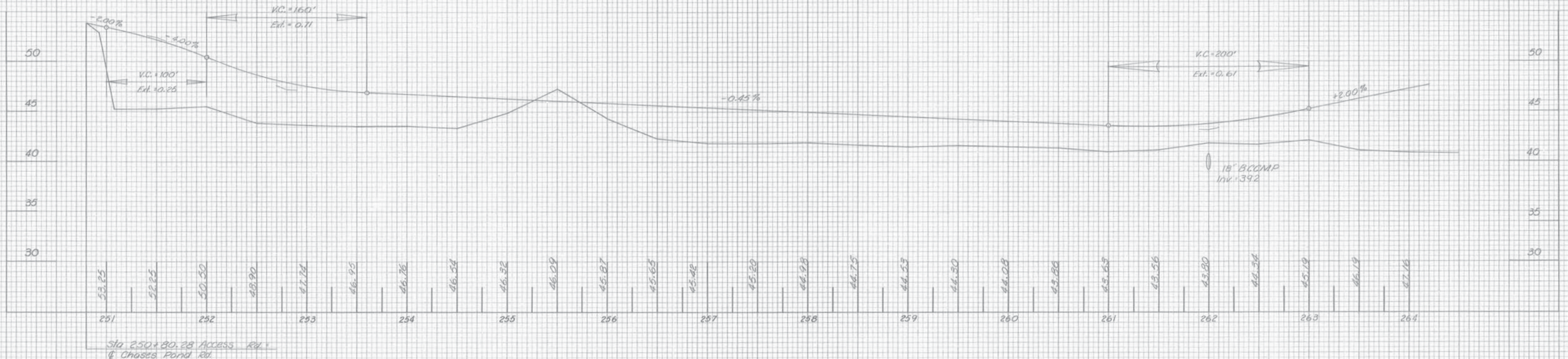
BRUNING 44-302

(8) YORK

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(8)	44	58

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED: PLOTTED: TEMPLATE: AREAS: AREAS CHECKED: — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED: PLOTTED: TEMPLATE: AREAS: AREAS CHECKED: — BY — DATE



Sta 250+80.28 Access Rd. = ℄ Chases Pond Rd.

Grubbing
Sta 250+93 to Sta 263+00 Access Rd

Access Road Profile
York Toll Plaza

B. P. H. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-55-1(81	47	58

Access Road

Employee Parking 78'

72'

30'

12'

Utility Building

TILE FIELD

Sta 263+54.00 Access Rd. =
Sta 263+50.00 Turnpike ℄

SCALE 1"=20'

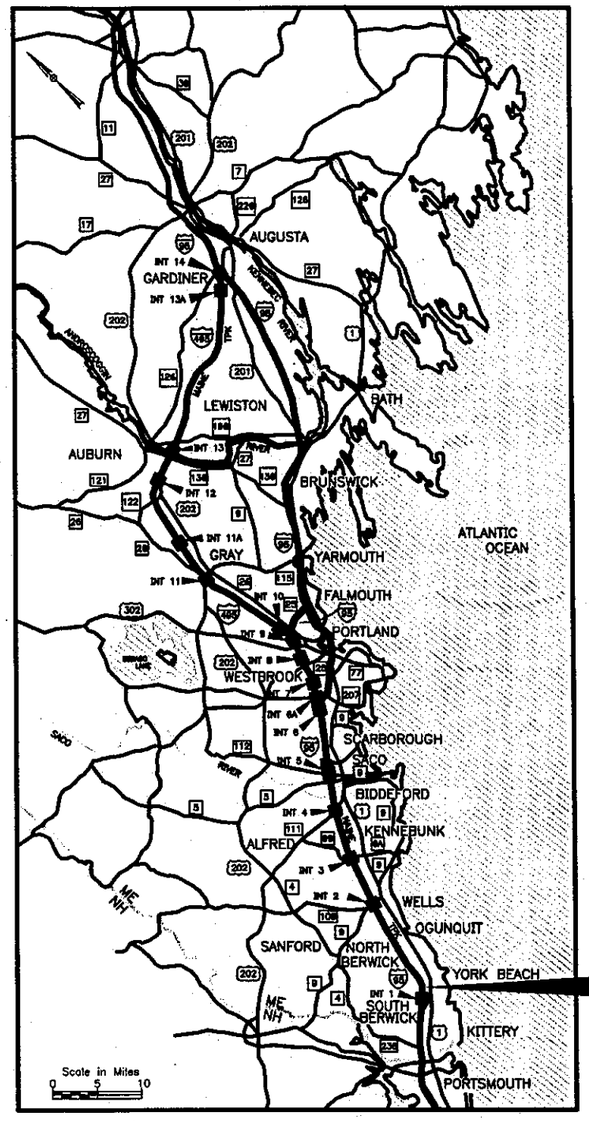
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

GRADING PLAN

STA. 262+00 TO STA 268+00

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

NEW YORK BOSTON KANSAS CITY



LOCATION MAP

MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE

JULIAN R. COLES, CHAIRMAN
DEBORAH H. SHELTON, VICE CHAIR
PATRICK F. BUTLER, MEMBER
LUCIEN B. GOSSELIN, MEMBER
JOHN G. MELROSE, MEMBER EX-OFFICIO

PAUL E. VIOLETTE, EXECUTIVE DIRECTOR

CONTRACT 99.4
TOLL PLAZA MODIFICATIONS
YORK TOLL PLAZA
MM 5.76

INDEX OF SHEETS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

COMMISSIONER _____ DATE _____

BUREAU DIRECTOR AND CHIEF ENGINEER _____ DATE _____

HNTB
ARCHITECTS ENGINEERS PLANNERS

STATE OF MAINE ROLAND A LAVALLEE 6492 REGISTERED PROFESSIONAL ENGINEER

ROLAND A. LAVALLEE P.E., P.L.S.
VICE PRESIDENT
DIRECTOR OF OPERATIONS

3/15/99
DATE

APPROVED:
MAINE TURNPIKE AUTHORITY

_____ CHAIRMAN

_____ EXECUTIVE DIRECTOR

DATE _____

H:\H09009XW\002\YORK TOLL\T-1.DWG 03/11/99 08:50

(METPK\BDR-01)

GENERAL NOTES

1. THE SEVEN EXISTING BELL ATLANTIC TELEPHONE BOOTHS SHALL BE REMOVED BY THE TELEPHONE COMPANY. THE REINFORCED CONCRETE SLABS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20 – COMMON EXCAVATION.

2. CLEARING LIMITS SHALL BE 5' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

3. THE CLEARING LINES SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE ACTUAL LINES FOR PAYMENT SHALL BE ESTABLISHED IN THE FIELD BY THE ENGINEER.

4. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.

5. REQUIRED EROSION AND SEDIMENTATION CONTROL SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSE ONLY. ACTUAL TYPE AND LOCATION OF DEVICES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

6. TWO GUARDRAIL DELINEATOR POSTS SHALL BE INSTALLED AT EACH 350 SRT AND ONE GUARDRAIL DELINEATOR POST SHALL BE INSTALLED AT EACH GUARDRAIL TERMINAL END.

7. SRT 350 TERMINAL SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL, UNLESS OTHER APPROVED TEMPORARY PROTECTION HAS BEEN AUTHORIZED.

8. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE ENGINEER.

9. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL FORESLOPES FROM THE EDGE OF SHOULDER TO THE DITCH LINE OR TOE OF FILL; SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL BACKSLOPES AND ON ALL GUARDRAIL FILL SLOPES.

10. MULCH SHALL BE APPLIED IN AREAS SEEDED BY SEEDING METHODS NO. 1, 2 AND 3.

11. THE UTILITIES ON THIS CONTRACT ARE:
    CENTRAL MAINE POWER COMPANY
    BELL ATLANTIC

12. SURPLUS MATERIAL SHALL NOT BE PLACED WITHIN 10' OF THE OUTSIDE OF A CULVERT.

13. WHERE HOT BITUMINOUS PAVEMENT GRADING C IS TO MEET EXISTING PAVEMENT A BUTT JOINT WILL BE REQUIRED. SEE PAVEMENT TRANSITION DETAILS.

14. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS CONTAINED IN THE STATE OF MAINE'S NATURAL RESOURCES PROTECTION ACT TIER I PERMIT AND WITH SECTION 404, PROGRAMMATIC GENERAL PERMIT FOR THE STATE OF MAINE (GENERAL PERMIT-39) AS PROMULGATED BY THE U.S. ARMY CORPS OF ENGINEERS. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS CONTAINED IN THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT AND THE U.S. ARMY CORPS OF ENGINEERS PERMIT.

15. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATIONS).

16. WASTE MATERIALS SHALL BE DISPOSED OF, OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.

17. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-800-DIG-SAFE PRIOR TO THE START OF THE WORK.

18. THE CONTRACTOR SHALL CONSTRUCT A REINFORCED CONCRETE TELEPHONE PAD (18' L x 6' W x 8" D) ON CHASES POND ROAD. THE PAD SHALL BE LOCATED 25 FEET WEST OF THE FENCE ON THE EAST END OF THE EXISTING COMMUTER PARKING LOT. TWO 2" NON-METALLIC CONDUITS SHALL BE INSTALLED UNDERGROUND FROM THE SLAB TO AND UP THE UTILITY POLE, APPROXIMATELY 15 FEET UNDERGROUND AND 20 FEET VERTICAL UP THE POLE (70 LF). ALL WORK REQUIRED SHALL MEET ALL REQUIREMENTS OF BELL ATLANTIC TELEPHONE COMPANY. BELL ATLANTIC SHALL BE NOTIFIED 48 HOURS PRIOR TO THE CONTRACTOR UNDERTAKING ANY WORK WHICH MAY AFFECT THEIR UTILITY.

No.	Revision	By	Date

	By	Date
Designed	WEF	2/99
Drawn	WEF	2/99
Checked	RWB	2/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
GENERAL NOTES

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. GN-1
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(WETPK\BDR-01)

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.1211	REMOVE EXISTING ANTENNA SUPPORT FOUNDATION – NB	1	LS
202.1212	REMOVE EXISTING ANTENNA SUPPORT FOUNDATION – SB	1	LS
202.1213	REMOVE EXISTING FLAGPOLE FOUNDATION	1	LS
203.20	COMMON EXCAVATION	4,200	CY
203.24	COMMON BORROW	100	CY
304.091	AGGREGATE BASE COURSE – CRUSHED (TYPE A)	600	CY
304.10	AGGREGATE SUBBASE COURSE – GRAVEL	3,500	CY
403.07	HOT BITUMINOUS PAVEMENT, GRADING B	2,100	TON
403.08	HOT BITUMINOUS PAVEMENT, GRADING C	1,150	TON
419.30	SAWING BITUMINOUS PAVEMENT	2,700	LF
504.80	STRUCTURAL STEEL ANTENNA SUPPORT – NB	1	LS
504.81	STRUCTURAL STEEL ANTENNA SUPPORT – SB	1	LS
603.155	12" REINFORCED CONCRETE PIPE – CLASS III	263	LF
604.09	CATCH BASIN TYPE B1	4	EA
606.24	GUARDRAIL TYPE 3d–SINGLE RAIL	2,538.5	LF
606.265	TERMINAL END–SINGLE RAIL–GALVANIZED STEEL	8	EA
606.35	GUARDRAIL DELINEATOR POST	7	EA
606.363	GUARDRAIL REMOVE AND DISPOSE	187.5	LF
606.3691	GUARDRAIL REMOVE AND STACK, SINGLE RAIL	141	LF
606.754	WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	2	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
608.08	REINFORCED CONCRETE SIDEWALK	205	SY
609.11	VERTICAL CURB TYPE I	858	LF
609.12	VERTICAL CURB TYPE I – CIRCULAR	28	LF
609.13	VERTICAL BRIDGE CURB TYPE I	14	LF
609.31	CURB TYPE 3	30	LF
613.399	TEMPORARY EROSION CONTROL BLANKET	4,530	SY
615.07	LOAM	575	CY
618.13	SEEDING – METHOD NO.1	3	UNIT
618.15	SEEDING – METHOD NO. 3	41	UNIT
619.12	MULCH	44	UNIT
626.11	PRECAST CONCRETE JUNCTION BOX	1	EA
626.131	12" X 12" PLASTIC JUNCTION BOX	2	EA
626.132	24" X 20" PLASTIC JUNCTION BOX	2	EA
626.2115	1" METALLIC CONDUIT	500	LF
626.212	2" METALLIC CONDUIT	70	LF
626.2201	3/4" NON–METALLIC CONDUIT	200	LF
626.2203	1" NON–METALLIC CONDUIT	600	LF
626.2204	1 1/4" NON–METALLIC CONDUIT	50	LF
626.2207	2" NON–METALLIC CONDUIT	70	LF
626.23	PRE–WIRED CONDUIT – SECONDARY WIRING	2,900	LF
626.32	24 INCH FOUNDATION	24	EA

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
626.361	REMOVE AND STACK CONCRETE FOUNDATION	7	EA
626.362	REMOVE AND DISPOSE CONCRETE FOUNDATION	7	EA
626.371	ANTENNA SUPPORT FOUNDATION – NB	1	LS
626.372	ANTENNA SUPPORT FOUNDATION – SB	1	LS
626.40	FLAGPOLE FOUNDATION	1	EA
629.05	HAND LABOR – STRAIGHT TIME	80	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	50	HR
631.171	TRUCK–SMALL (INCLUDING OPERATOR)	50	HR
631.36	FOREMAN	25	HR
634.208	REMOVE AND RESET LIGHT STANDARD	14	EA
639.19	FIELD OFFICE TYPE B	1	EA
645.105	REMOVE & STACK REGULATORY, WARNING & ROUTE MARKER ASSEMBLY SIGNS	7	EA
645.109	REMOVE AND RESET SIGN	1	EA
645.162	BREAKAWAY DEVICE MULTI POLE	8	EA
645.251	ROADSIDE GUIDE SIGNS, TYPE I	190	SF
645.254	REMOVE & RESET CANOPY GUIDE SIGN	4	EA
645.257	CANOPY SIGN SUPPORT STRUCTURE	2	EA
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGNS, TYPE I	459	SF
645.289	STEEL H–BEAM POLES	2,852	LBS
645.292	REMOVE AND RESET GUIDE SIGN, TYPE II	1	EA
652.30	FLASHING ARROW BOARD	2	EA
652.32	BATTERY OPERATED LIGHT	42	EA
652.33	DRUM	120	EA
652.35	CONSTRUCTION SIGNS	252	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
656.50	BALED HAY, IN PLACE	50	EA
656.632	30" TEMPORARY SILT FENCE	2,400	LF
659.10	MOBILIZATION	1	LS
670.01	FLAGPOLE	1	EA
671.01	BOLLARD	12	EA
672.01	TREADLE	2	EA
675.01	ELECTRICAL WORK – CANOPY SIGN – NB	1	LS
675.02	ELECTRICAL WORK – CANOPY SIGN – SB	1	LS
675.03	ELECTRICAL WORK – ETC	1	LS

No.	Revision	By	Date	In Charge Of: RAL	By	Date
				Designed	WEF	3/99
				Drawn	WEF	3/99
				Checked	RWB	3/99

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
ESTIMATED QUANTITIES

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. EQ–1
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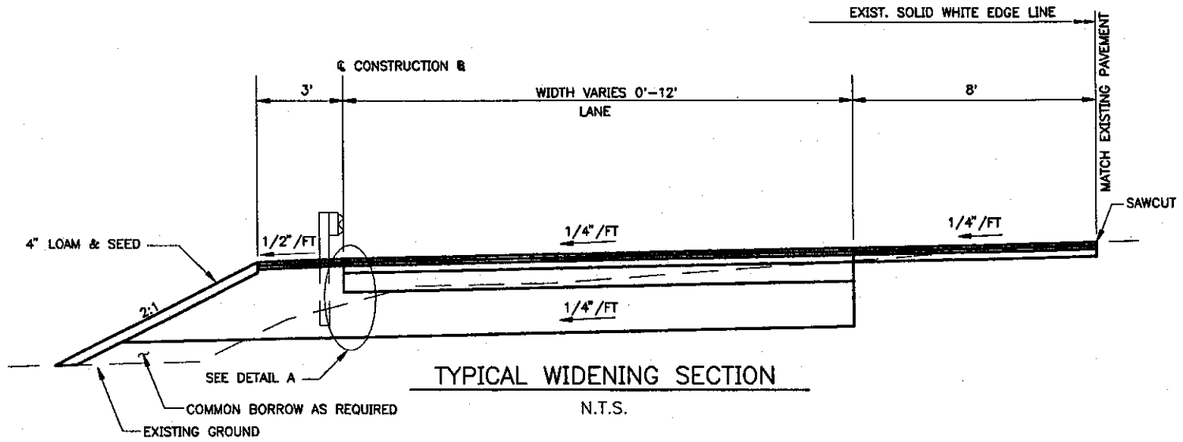
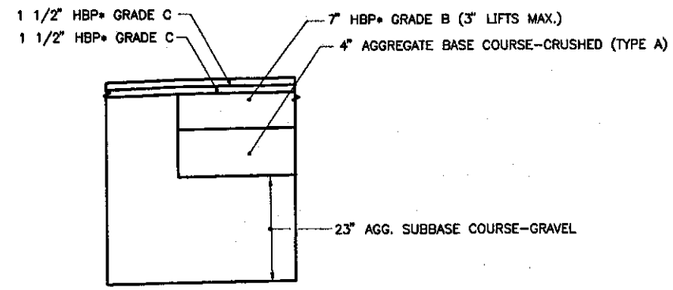
(METPK\BDR-01)



TYPICAL WIDENING SECTION

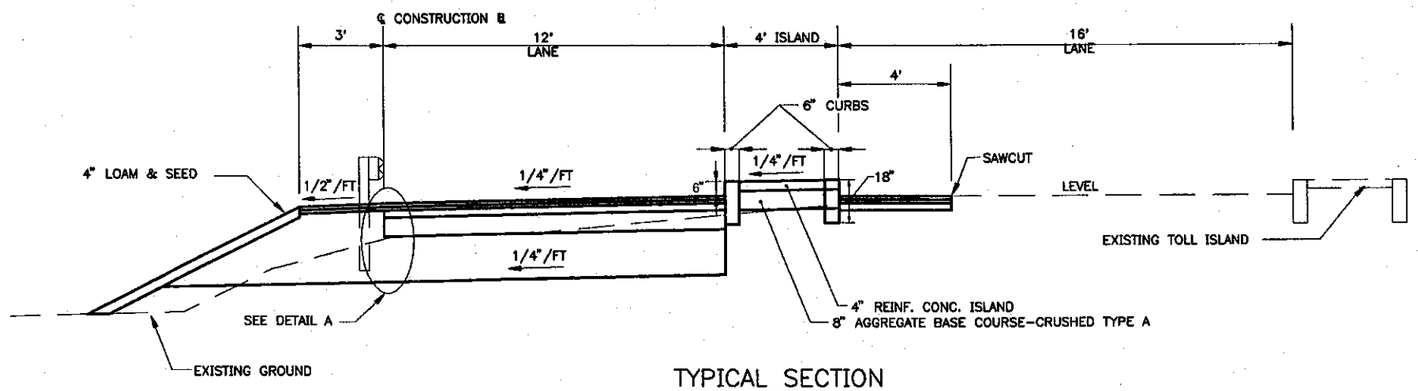
N.T.S.



DETAIL A

N.T.S.

HBP*=HOT BITUMINOUS PAVEMENT



TYPICAL SECTION WITH PROPOSED ISLAND

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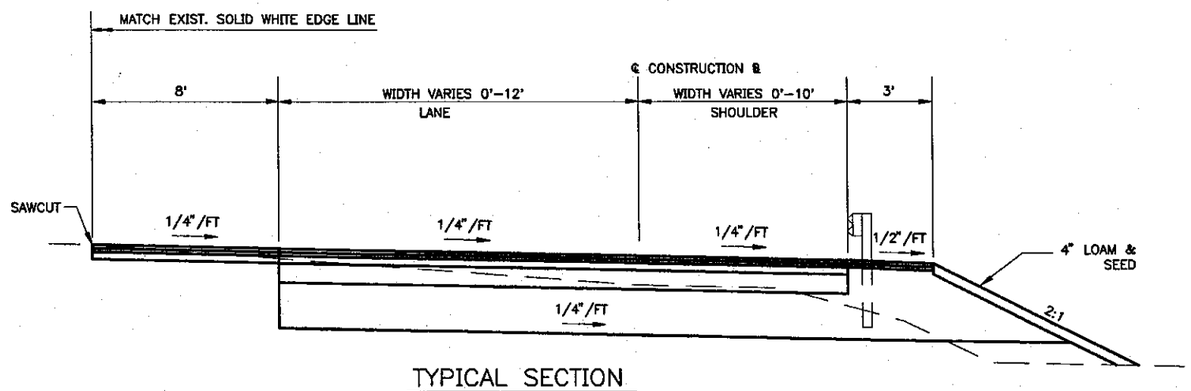

TYPICAL SECTION WITH SHOULDER

(NB ROADWAY)

N.T.S.

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	JVC	2/99
In Charge Of: RAL		

Maine Turnpike Authority

Maine Turnpike

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YORK TOLL PLAZA

TOLL PLAZA MODIFICATIONS
TYPICAL SECTIONS

HNTB
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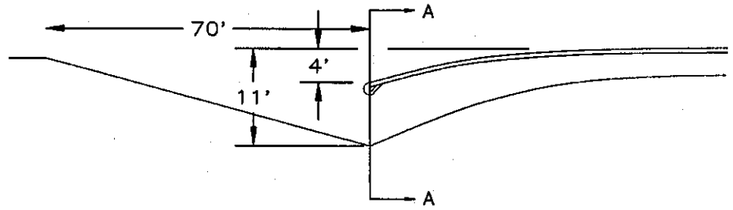
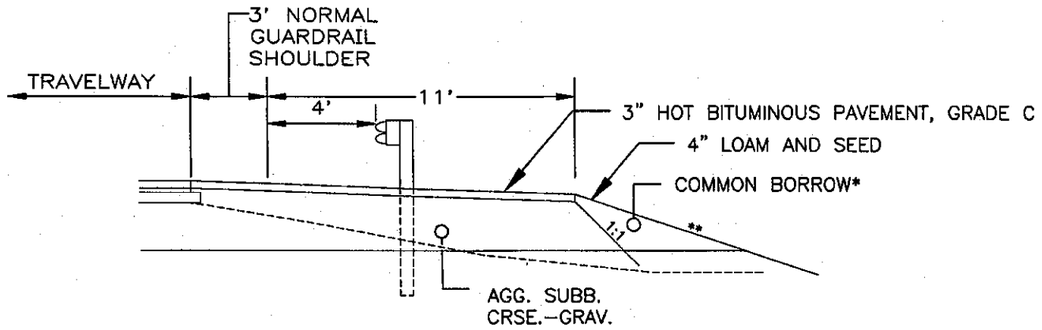
(METPK\BDR-01)

USE MANUFACTURERS INSTALLATION GUIDELINES FOR FLARE OFFSET





SECTION A-A

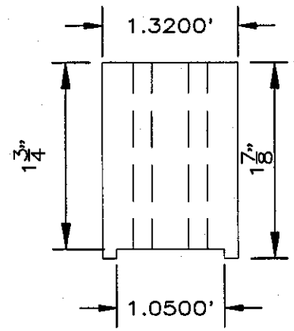
* ADJACENT OR AVAILABLE EXCAVATION SHALL BE USED INSTEAD OF COMMON BORROW UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

** THIS SHALL BE A 4:1 SLOPE IN AREAS THAT ARE PRESENTLY 6:1. THE STEEPEST SLOPE SHALL BE 3:1 IN ALL OTHER AREAS.

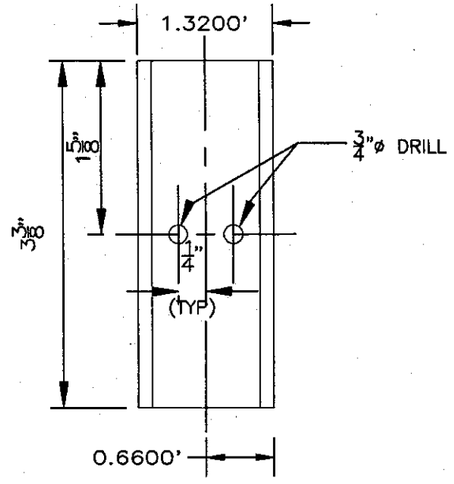
WIDEN SHOULDER FOR GUARDRAIL 350 TERMINAL

NOT TO SCALE

TOP VIEW



SIDE VIEW



WOOD BLOCK DETAIL FOR STEEL POST

NOT TO SCALE

No.	Revision	By	Date		By	Date
				Designed	WEF	2/99
				Drawn	WEF	2/99
				Checked	RWB	2/99
				In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
MISCELLANEOUS DETAILS
SHEET 1

HNTB
ARCHITECTS ENGINEERS PLANNERS

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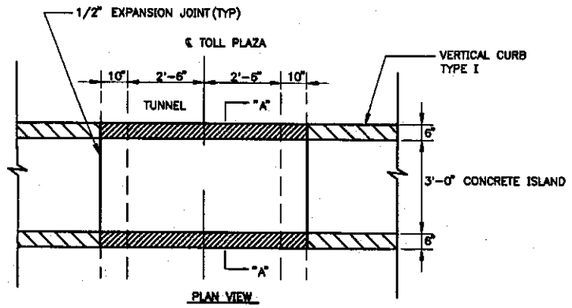
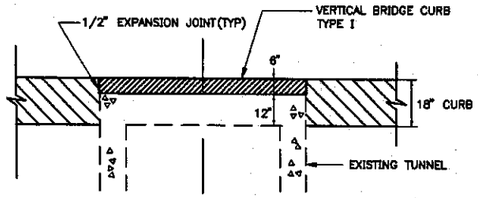
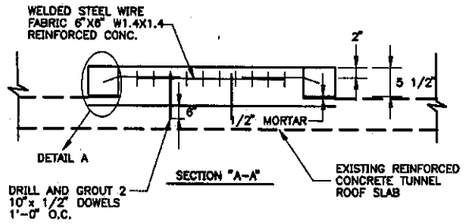
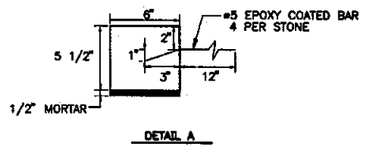


PLAN VIEW

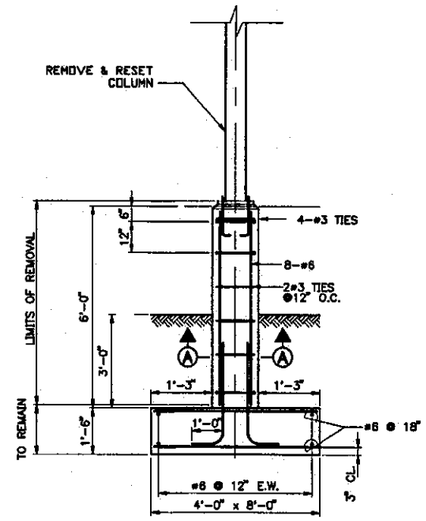


VERTICAL BRIDGE CURB TYPE I
N.T.S.

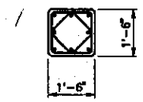




DETAIL A

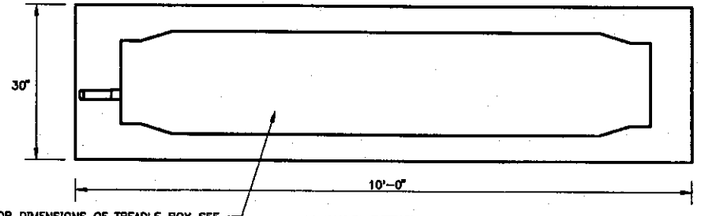


DETAIL FOR REMOVAL OF EXISTING ANTENNA SUPPORT
N.T.S.

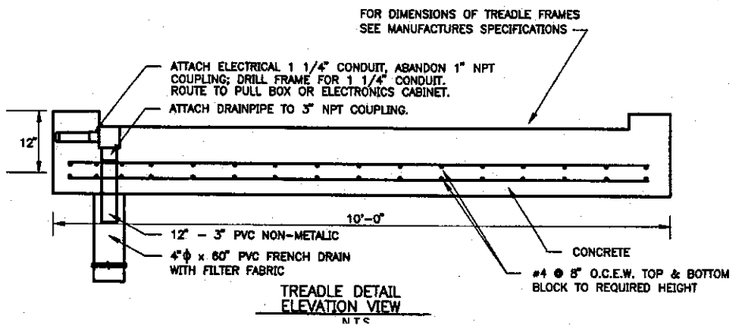


SECTION A-A

NOTE:
ALL DIMENSIONS ARE +/-



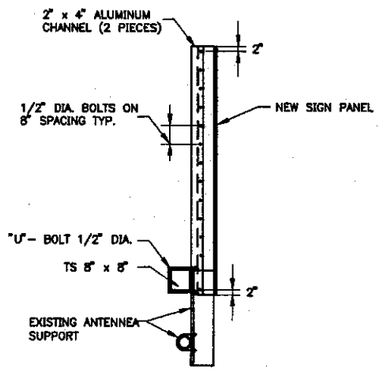
TREADLE DETAIL PLAN
N.T.S.



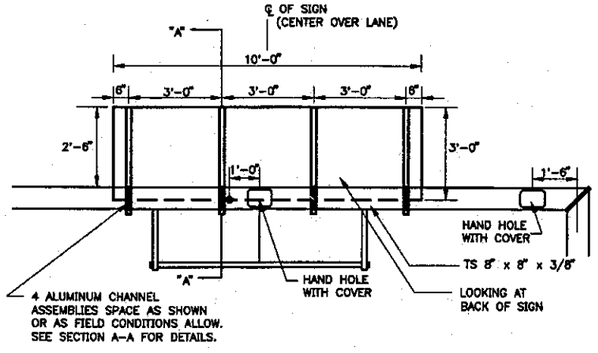
TREADLE DETAIL ELEVATION VIEW
N.T.S.

NOTES

1. TREADLE FRAME TO BE SUPPLIED AND INSTALLED BY CONTRACTOR AS PER SPECS AND MANUFACTURES INSTALLATION INSTRUCTIONS.



SECTION A-A
N.T.S.



CANOPY SIGN SUPPORT STRUCTURE DETAIL
N.T.S.

NOTE: SIGN LIGHTING SHOWN ON SHEET E-1.

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	RWB	2/99
In Charge Of: RAL		

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
MISCELLANEOUS DETAILS
SHEET 2

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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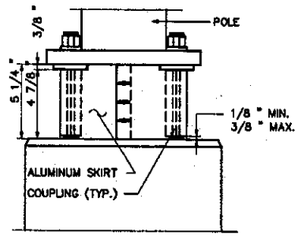
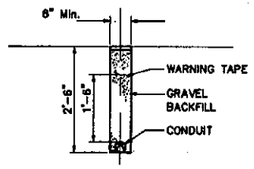
(METPK\BDR-01)

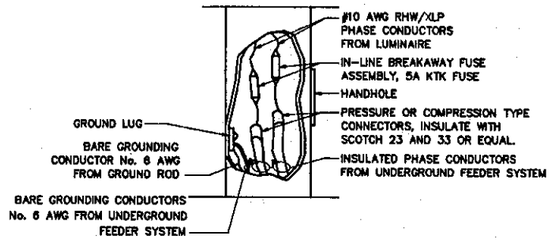
LIGHT STANDARDS ON WHICH BREAKAWAY COUPLINGS SHALL BE INSTALLED
ALL LIGHT STANDARD ON EAST SIDE OF TOLL PLAZA



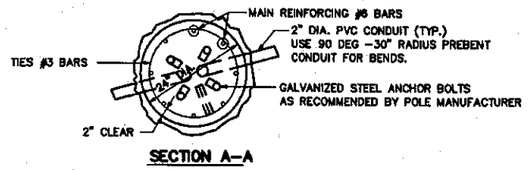
BREAKAWAY COUPLINGS AND SKIRT DETAIL
NOT TO SCALE



TRENCH CROSS SECTION
NOT TO SCALE

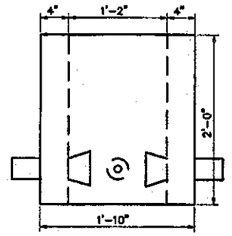


TYPICAL POLE WIRING DETAIL
NOT TO SCALE

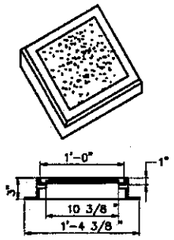


SECTION A–A

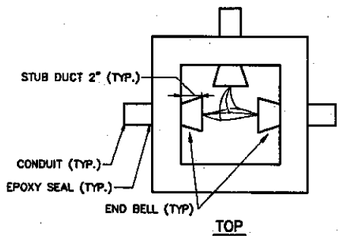
NOTE:
SPLICES IN BOX SHALL BE MADE WITH APPROPRIATE CONNECTORS AND TAPED WITH "SCOTCH 23 AND 33" OR EQUAL. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.



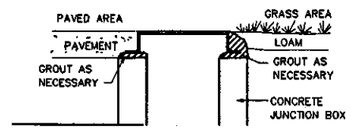
ELEVATION



ELECTRICAL PULL BOX COVER



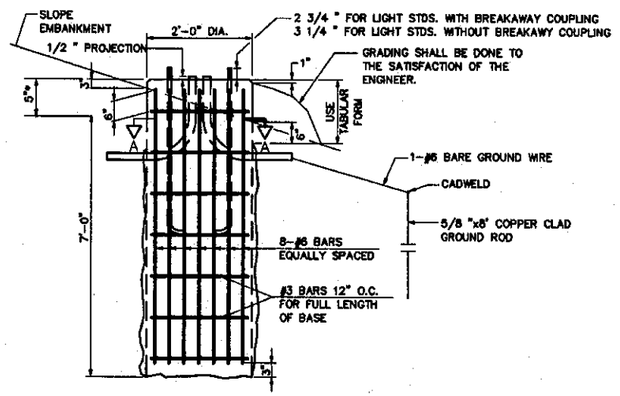
TOP



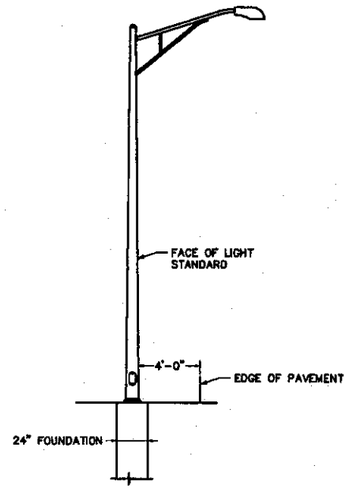
JUNCTION BOX COVER & FRAME

NOTE:
INSTALL JUNCTION BOXES ON GRADE, GROUT AS NECESSARY AS SHOWN ABOVE.

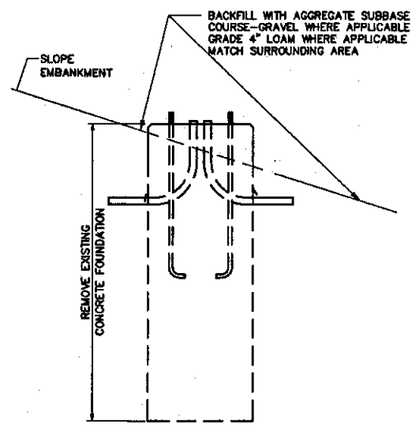
PRECAST CONCRETE JUNCTION BOX – PAY ITEM 626.11
NOT TO SCALE



24 INCH FOUNDATION
NOT TO SCALE



PLACEMENT OF LIGHT STANDARD BEHIND EDGE OF PAVEMENT



REMOVAL OF CONCRETE FOUNDATION
NOT TO SCALE

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	RWB	2/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

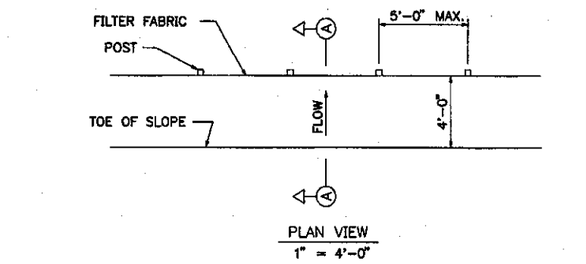
YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
MISCELLANEOUS DETAILS
SHEET 3

HNTB
ARCHITECTS ENGINEERS PLANNERS

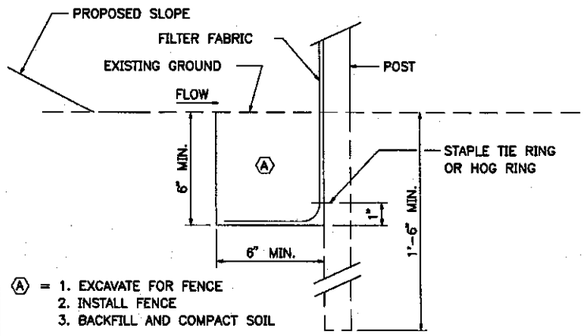
Contract 99.4

Sheet No. MD-3
7 of 42

H:\H09009XW\002\YORK TOLL\MD-3.DWG 03/12/99 10:56

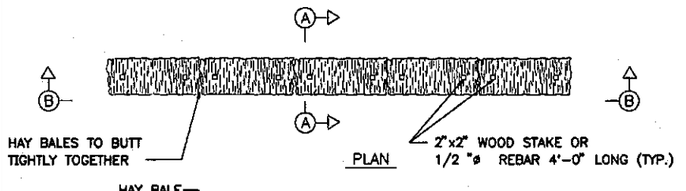


PLAN VIEW
1" = 4'-0"

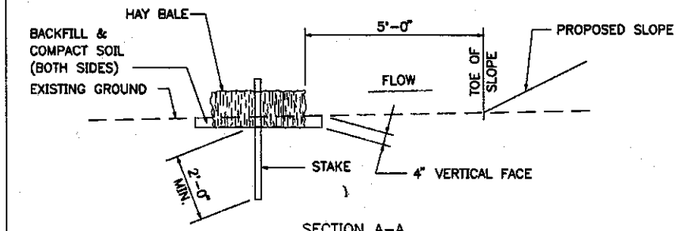


SECTION A-A
3" = 1'-0"

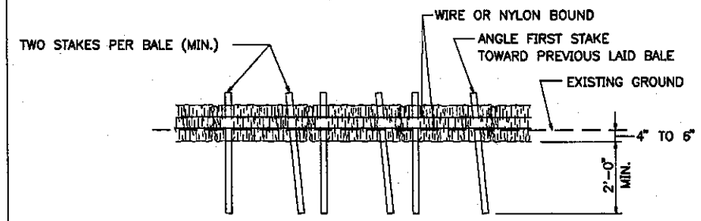
SILT FENCE



PLAN

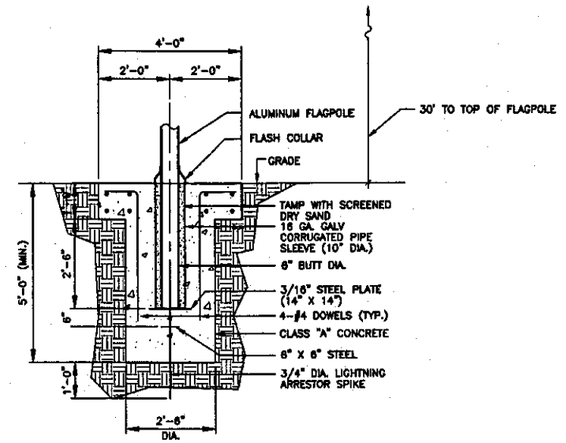


SECTION A-A
1/4 "=1'-0"

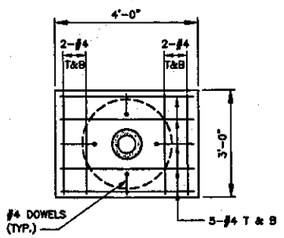


SECTION B-B
1/4 "=1'-0"

HAY BALE DETAIL

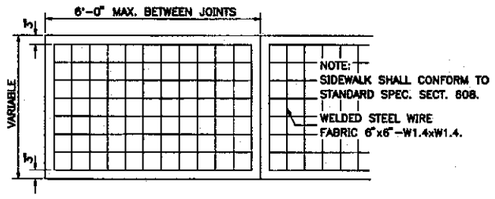


SECTION

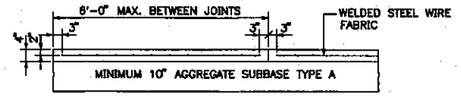


PLAN

FLAGPOLE FOUNDATION DETAILS
1" = 2'-0"



PLAN VIEW

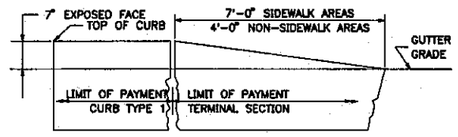


SECTION
1" = 2'-0"

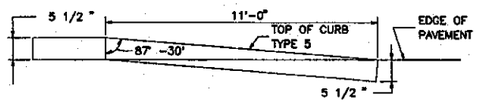
REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK

SPEC. 608 MS005

CURB TYPES 1 & 5 ON CURVES				
TYPE	RADIUS OF CURVE	LENGTH	PAID FOR AS	STONE IS CUT OR CAST
1 & 2	0' TO 60' INCL.	4' MIN.	CIRCULAR	ARC TO FIT CURVE
	OVER 60' TO 160'	4' TO 6'	STRAIGHT	STRAIGHT PIECES
5	0' TO 8' INCL.	2' MIN.	CIRCULAR	TO FIT CURVE
	OVER 8' TO 30' INCL.	12" MIN. CHORD	CIRCULAR	STR. PIECES, RADIAL ENDS
	OVER 30' & UNDER 160'	2' TO 3'	STRAIGHT	STRAIGHT PIECES
	160' AND OVER	3' TO 6'	STRAIGHT	STRAIGHT PIECES



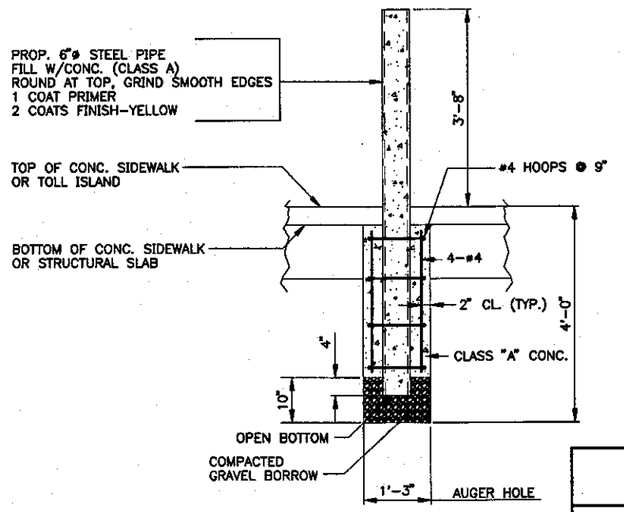
TERMINAL SECTION TYPE "1"



TERMINAL SECTION TYPE "5"
(USE WHEN SHOWN ON PLANS ONLY)

TERMINAL CURB SECTION

SPEC. 609 CU001



BOLLARD
3/4" = 1'-0"

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn		
Checked	RWB	2/99
In Charge Of: RAL		

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
STANDARD DETAILS
MISCELLANEOUS

HNTB
ARCHITECTS ENGINEERS PLANNERS

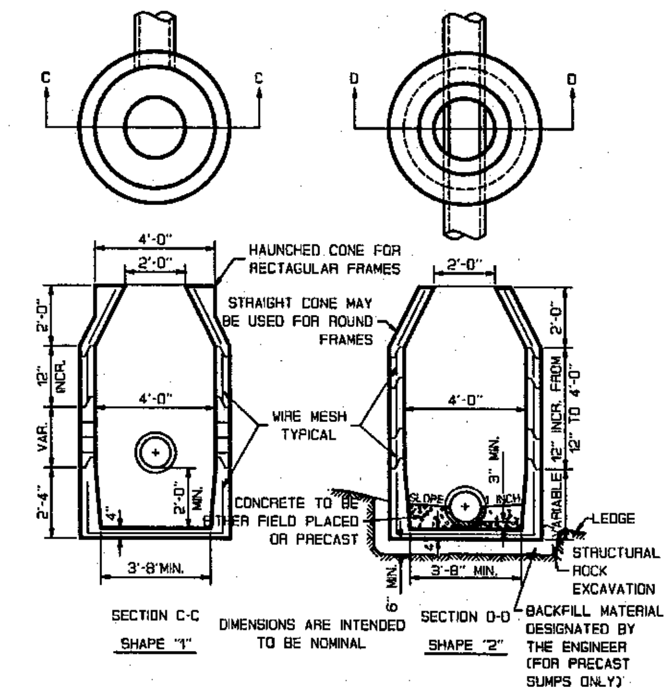
Contract 99.4

Sheet No. SD-1
8 of 42

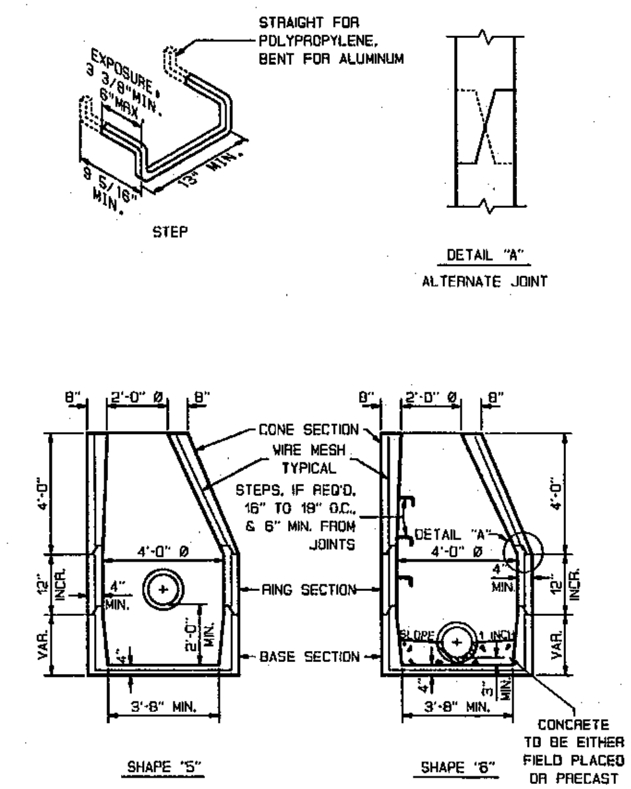
GENERAL NOTES

1. CATCH BASINS IN EXCESS OF 8' IN DEPTH SHALL, IF DIRECTED, BE PROVIDED WITH STEPS SIMILAR TO THOSE DETAILED FOR MANHOLES.
2. DRAIN HOLES IN PRECAST SUMPS SHALL BE NOT OVER 3" IN DIAMETER AND SHALL BE PLUGGED WITH MORTAR WHEN CONSTRUCTED.
3. ALL PRECAST SECTIONS OF LESS THAN 8" WALL THICKNESS SHALL HAVE TONGUE AND GROOVE JOINTS.
4. CONE AND RING SECTIONS SHALL HAVE A WALL THICKNESS OF 4" MINIMUM TO 8" MAXIMUM.
5. MINIMUM WALL THICKNESS AT THE SUMP SHALL BE 4" AS SPECIFIED IN A.S.T.M. C-478.
6. THE WALL AROUND INLET AND OUTLET PIPES SHALL BE A PRECAST RING WITH AN OPENING 2" LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE.
7. LIFT HOLES SHALL BE PROVIDED.

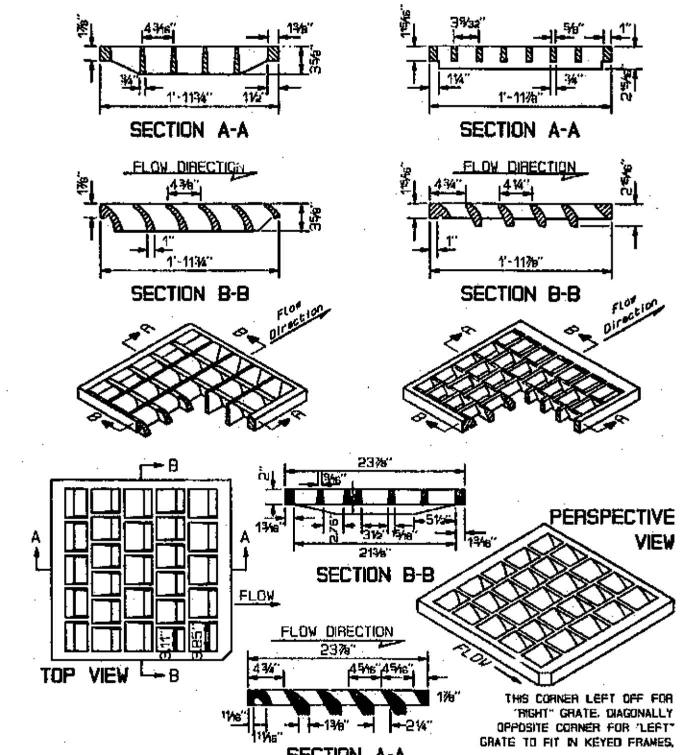
SPEC. 604 DR001



SPEC. 604 CATCH BASINS (PRECAST UNITS) DR002

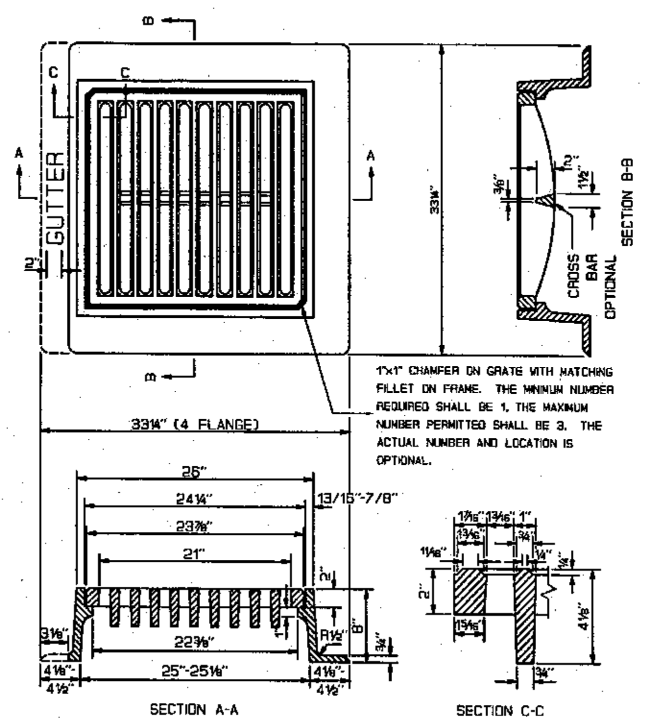


SPEC. 604 CATCH BASIN OR MANHOLE DR003



NOTES:
TO BE USED WHERE PARALLEL BAR GRATES WOULD PRESENT A HAZARD TO BICYCLE TRAFFIC.
FOR USE ON CATCH BASIN TYPES: A1-C, A2-C, A5-C, B1-C, B2-C, B5-C, F3-C, F4-C, F5-C, F6-C.

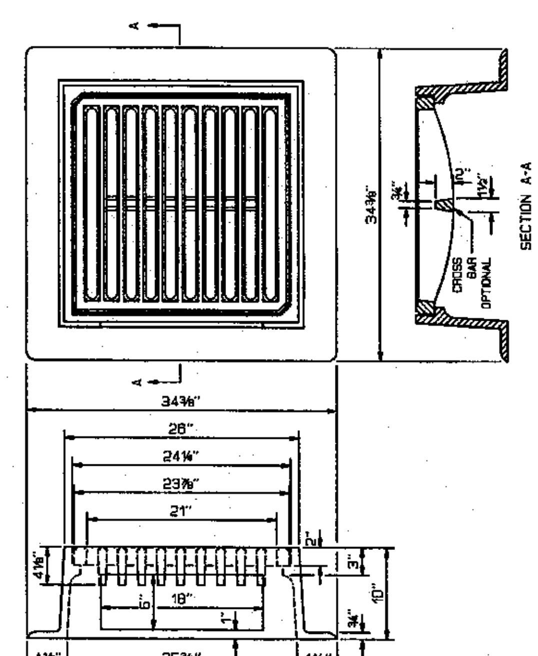
SPEC. 604 "CASCADE-TYPE" GRATES DR004



1"x1" CHAMFER ON GRATE WITH MATCHING FILLET ON FRAME. THE MINIMUM NUMBER REQUIRED SHALL BE 1. THE MAXIMUM NUMBER PERMITTED SHALL BE 3. THE ACTUAL NUMBER AND LOCATION IS OPTIONAL.

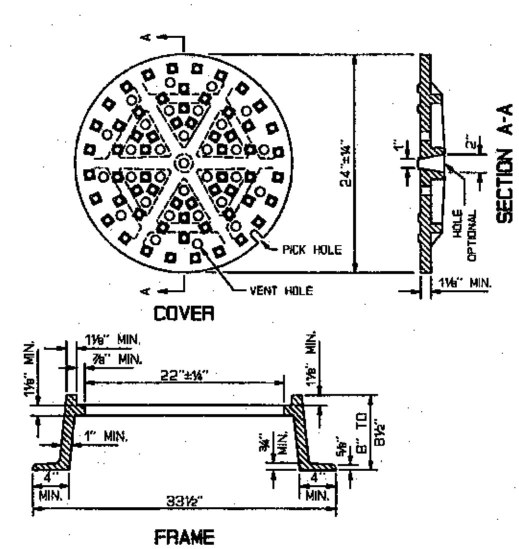
NOTES:
1. TYPE "A" FRAMES ARE TO HAVE 3 FLANGES.
2. TYPE "B" FRAMES ARE TO HAVE 4 FLANGES.
3. THE WORD "GUTTER" IS TO BE MOULDED INTO THE BACK FLANGE-TYPE "B" ONLY.
4. FRAMES AND GRATES ARE TO BE OF GRAY CAST IRON CONFORMING TO AASHTO M105, CLASS 30.
5. DIMENSIONS ARE NOMINAL.

SPEC. 604 TYPE "A" & "B" CATCH BASIN TOPS DR005



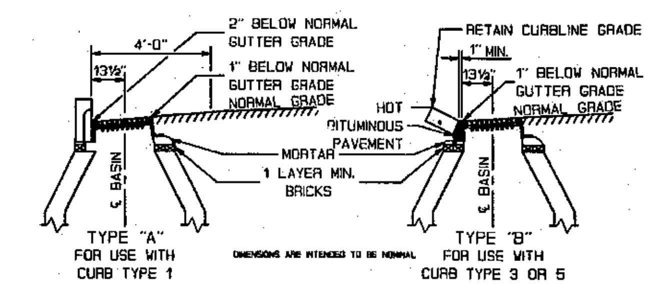
NOTES:
1. OPEN THROAT SHALL BE CONSTRUCTED ON THE SIDE AWAY FROM THE DIRECTION OF TRAFFIC. ALL OTHER SIDES SHALL BE GRADED FLUSH WITH THE TOP OF THE CATCH BASIN GRATE.
2. THE FRAME SHALL BE GRAY CAST IRON.
3. THE GRATE SHALL BE THE SAME AS TYPES "A" AND "B".
4. DIMENSIONS ARE INTENDED TO BE NOMINAL.

SPEC. 604 TYPE "C" CATCH BASIN TOPS DR006



NOTES:
1. MANHOLE FRAMES AND COVERS ARE TO BE MACHINED TO A SMOOTH FIT AND SHALL BE OF GRAY CAST IRON.
2. DIAMOND TOP SURFACE IS OPTIONAL.

SPEC. 604 MANHOLE TOP "D" DR007



SPEC. 604 CATCH BASIN TOP INSTALLATION DR008

NOTES:
1. THESE DETAILS COPIED FROM MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS SHEETS.
2. USE ONLY THOSE ITEMS CALLED FOR ON THE DESIGN DRAWINGS.
3. IN CASE OF CONFLICT BETWEEN THESE STANDARD DETAILS AND THE DESIGN DRAWINGS, THE REQUIREMENTS OF THE DESIGN DRAWINGS SHALL BE FOLLOWED.

Maine Turnpike Authority
Maine Turnpike

Transpass

STANDARD DETAILS
TYPE A, B & C CATCH BASINS AND MANHOLES

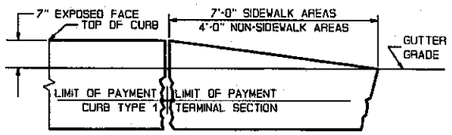
HNTB ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By:	Date:	
				Designed
				Drawn
				Checked
				In charge of:

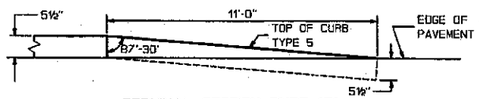
Contract 99.4 Sheet No. SD-2 9 of 42

METPK01A

CURB TYPES 1 & 5 ON CURVES				
TYPE	RADIUS OF CURVE	LENGTH	PAID FOR AS	STONE IS CUT OR CAST
1 AND 2	0' TO 60' INCL.	4' MIN.	CIRCULAR	ARC TO FIT CURVE
	OVER 60' TO 160'	4' TO 6'	STRAIGHT	STRAIGHT PIECES
5	0' TO 8' INCL.	2' MIN.	CIRCULAR	TO FIT CURVE
	OVER 8' TO 30' INCL.	12" MIN. CHORD	CIRCULAR	STR. PIECES, RADIAL ENDS
	OVER 30' & UNDER 160'	2' TO 3'	STRAIGHT	STRAIGHT PIECES
	160' AND OVER	3' TO 6'	STRAIGHT	STRAIGHT PIECES

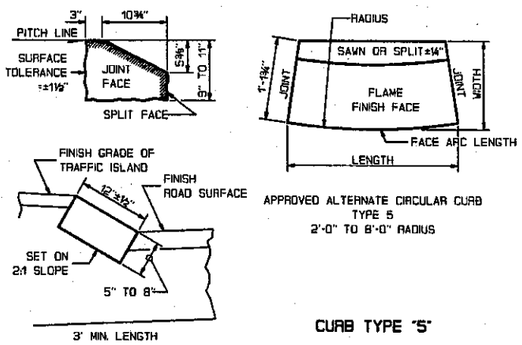


TERMINAL SECTION TYPE "1"



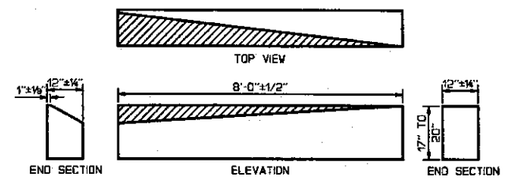
TERMINAL SECTION TYPE "5"
(USE WHEN SHOWN ON PLANS ONLY)

SPEC. 609 — TERMINAL CURB SECTION — CU001



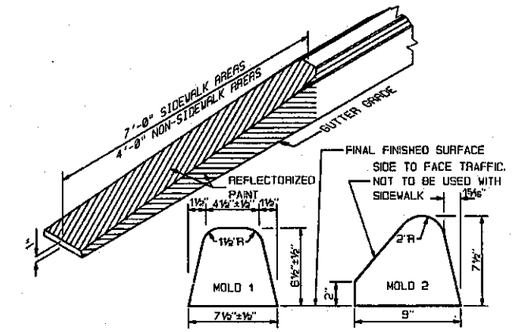
APPROVED ALTERNATE CIRCULAR CURB
TYPE 5
2'-0" TO 8'-0" RADIUS

CURB TYPE "5"



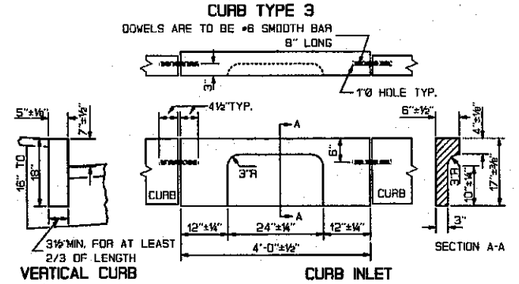
TRANSITION SECTION "B"
CURB TYPE "5" TO VERTICAL CURB TYPE "1"

SPEC. 609 — CURB TRANSITION — CU002



CURB MOLD 2 WILL BE USED IN ALL SITUATIONS EXCEPT FOR WHERE THE CURB FORMS THE EDGE OF THE SIDEWALK. MOLD 1 SHALL BE USED IN CONJUNCTION WITH SIDEWALKS OR WHERE THERE IS A POTENTIAL FOR SIDEWALKS.

CURB TYPE 3

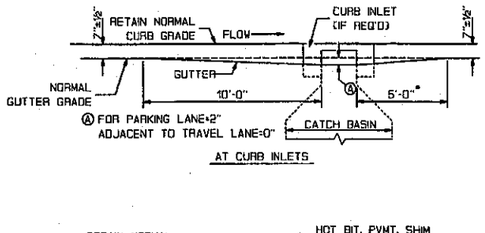


VERTICAL CURB
TYPE 1 & 2

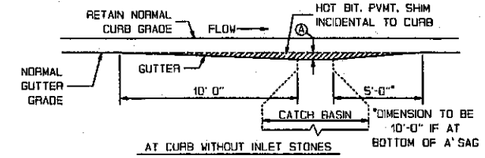
CURB INLET

CURB

SPEC. 609 — CU003



AT CURB INLETS



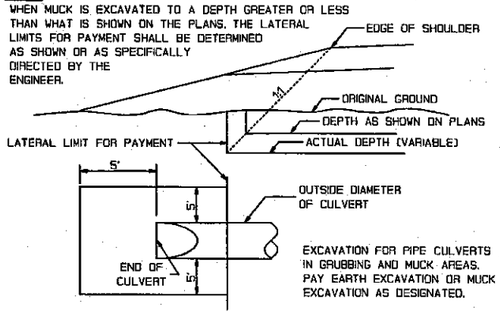
AT CURB WITHOUT INLET STONES

NOTE:
GRATES SHALL BE INSTALLED ON GRADIENT OF THE GUTTER AND BE DEPRESSED 2" BELOW THE NORMAL GUTTER GRADE UNLESS THIS DEPRESSION INTERFERES WITH TRAFFIC.

GUTTER GRADE TRANSITION
AT CATCH BASIN

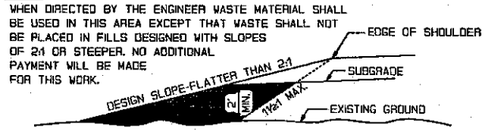
SPEC. 609 — CU004

NOTE:
WHEN MUCK IS EXCAVATED TO A DEPTH GREATER OR LESS THAN WHAT IS SHOWN ON THE PLANS, THE LATERAL LIMITS FOR PAYMENT SHALL BE DETERMINED AS SHOWN OR AS SPECIFICALLY DIRECTED BY THE ENGINEER.



MUCK EXCAVATION PAY LIMITS

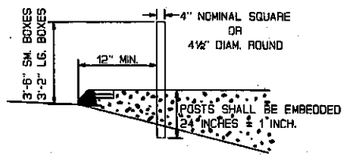
NOTE:
WHEN DIRECTED BY THE ENGINEER WASTE MATERIAL SHALL BE USED IN THIS AREA EXCEPT THAT WASTE SHALL NOT BE PLACED IN FILLS DESIGNED WITH SLOPES OF 2:1 OR STEEPER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.



DISPOSAL OF WASTE MATERIALS
(WASTE STORAGE AREA)

MUCK EXCAVATION AND WASTE DISPOSAL

SPEC. 203 — MS001



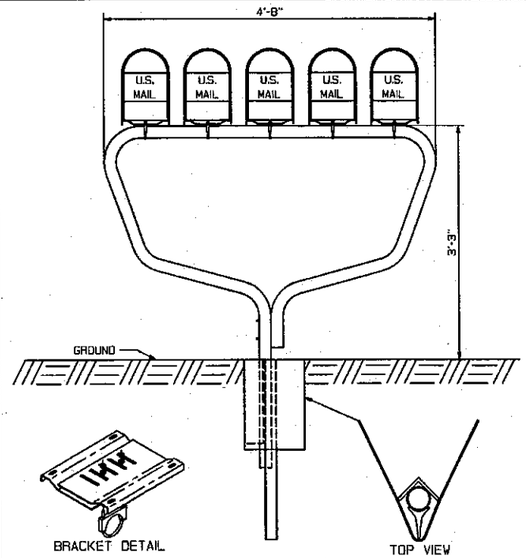
1. A POST SHALL BE PROVIDED FOR EACH MAILBOX.
2. POSTS SHALL NOT BE SPACED CLOSER THAN 30 INCHES.
3. POSTS SHOULD NOT BE PLACED CLOSER THAN 200 FEET FROM AN INTERSECTING ROAD.
4. WHEN SINGLE WOOD POSTS EXCEED 4½" DIAMETER OR SQUARE DIMENSION, TWO 3/4" HOLES SHALL BE DRILLED THROUGH THE POST AT 90° TO EACH OTHER, 4" ABOVE THE FINISH GRADE.

SINGLE WOOD POST

MAILBOX POSTS

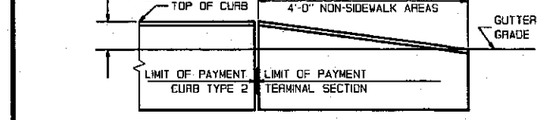
SPEC. 606 — MS003

NOTES:
1. THESE DETAILS COPIED FROM MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS SHEETS.
2. USE ONLY THOSE ITEMS CALLED FOR ON THE DESIGN DRAWINGS.
3. IN CASE OF CONFLICT BETWEEN THESE STANDARD DETAILS AND THE DESIGN DRAWINGS, THE REQUIREMENTS OF THE DESIGN DRAWINGS SHALL BE FOLLOWED.



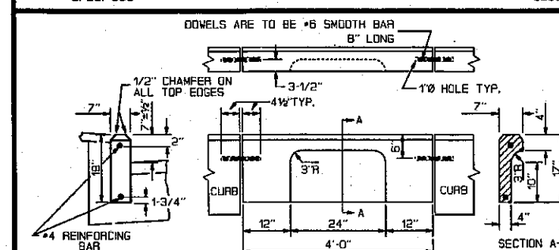
ITEM NO. 606.51
MULTIPLE MAILBOX SUPPORT

MS004



TERMINAL SECTION TYPE "2"

SPEC. 609 — CU005



VERTICAL CURB
TYPE 2

CURB INLET
TYPE 2

CURB

SPEC. 609 — CU006

Maine Turnpike Authority
Maine Turnpike

STANDARD DETAILS
CURBING, MUCK EXCAVATION
AND WASTE DISPOSAL
& MAILBOX POST ASSEMBLIES

HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By:	Date:

Designed
Drawn
Checked
In charge of:

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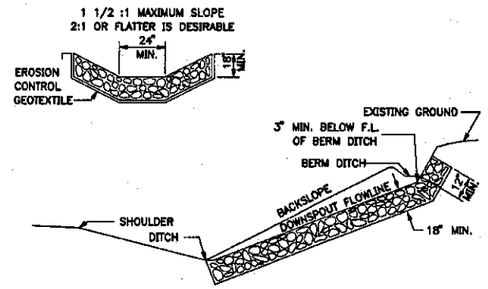
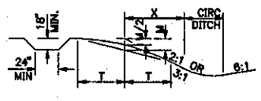
METPK01A

(METPK\BDR-01)



RIPRAP DOWNSPOUT



BERM DITCH

CONSTRUCT BERM DITCH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WHERE A 2:1 SLOPE IS NOT PRACTICAL, USE A 1-1/2:1 SLOPE.

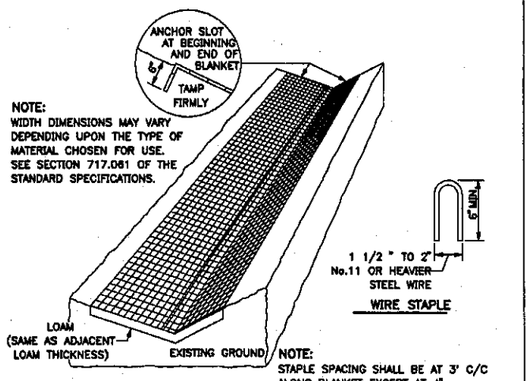
WHERE "X"=5 OR LESS, "T"=X, OTHERWISE "T"=5. TO AVOID PROPERTY DAMAGE AND TO SAVE SHADE TREES, THIS FORMULA MAY BE MODIFIED BY THE ENGINEER.

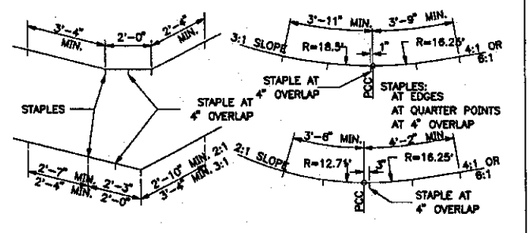
FOR ALL SECTIONS, THE DEPTH OF DITCH DEPENDS ON LOCAL CONDITIONS.

RIPRAP DOWNSPOUTS

AND BERM DITCHES

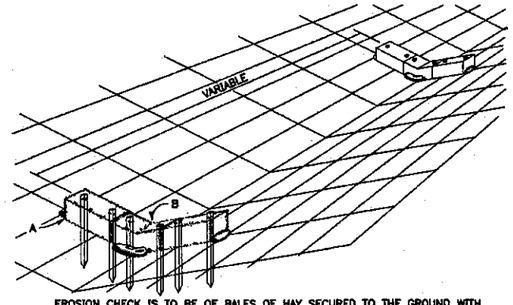
SPEC. 610 ER001





TEMPORARY EROSION CONTROL BLANKET

SPEC. 613 ER002

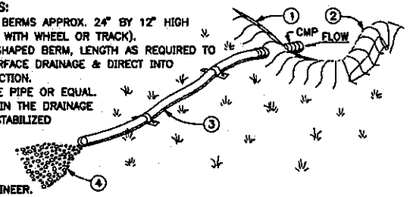


EROSION CHECK IS TO BE OF BALES OF HAY SECURED TO THE GROUND WITH 2-4' LONG GRADE STAKES FOR EACH BALE. SAND BAG AS REQUIRED. PLACE SUFFICIENT BALES TO ESTABLISH ELEVATIONS AT "A" AT LEAST 6" ABOVE OVERFLOW AT "B".

EROSION CHECK FOR DITCH

DESCRIPTIONS:

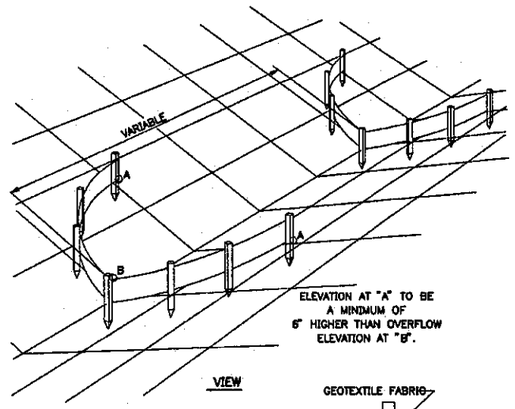
1. TEMPORARY BERMS APPROX. 24" BY 12" HIGH (COMPACTED WITH WHEEL OR TRACK).
2. CRESCENT SHAPED BERM, LENGTH AS REQUIRED TO CONTAIN SURFACE DRAINAGE & DIRECT INTO THE END SECTION.
3. COLLAPSIBLE PIPE OR EQUAL.
4. DISCHARGE IN THE DRAINAGE DITCH, ON STABILIZED AREA OR ON DUMPED STONE AS INDICATED BY THE ENGINEER.



TEMPORARY BERM AND SLOPE DRAIN

TEMPORARY EROSION CONTROL

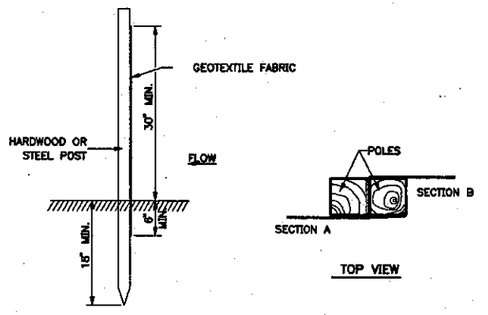
SPEC. 656 ER003



TEMPORARY SILT FENCE

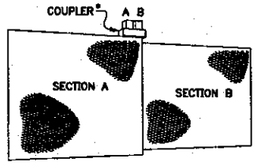
EROSION CHECK FOR DITCH

SPEC. 656 ER004



DEPENDING UPON CONFIGURATION, ATTACH GEOTEXTILE TO WIRE MESH WITH HOG RINGS, TO STEEL POSTS WITH TIE WIRES, AND TO WOOD POSTS WITH STAPLES.

POSTS MAY BE WIRED TOGETHER WHEN JOINING SECTIONS.

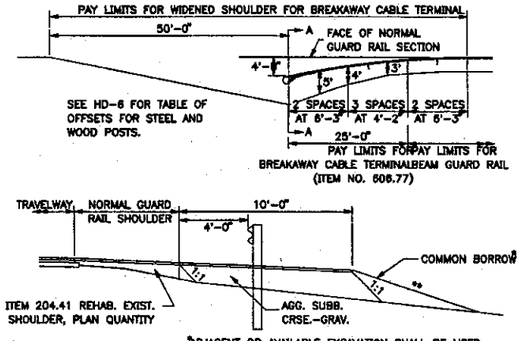


JOINING SECTIONS

*THE COUPLER CAN BE ANY ACCEPTABLE DEVICE USED TO TIE THE POLES TOGETHER.

TEMPORARY SILT FENCE

SPEC. 656 ER005



*ADJACENT OR AVAILABLE EXCAVATION SHALL BE USED INSTEAD OF COMMON BORROW UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

*THIS SHALL BE A 4:1 SLOPE IN AREAS THAT ARE PRESENTLY 6:1. THE STEEPEST SLOPE SHALL BE 3:1 IN ALL OTHER AREAS.

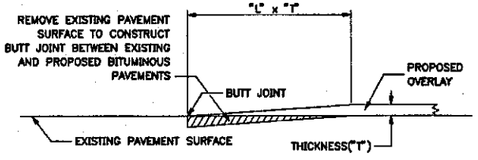
NOTE:
WIDENED SHOULDER FOR BREAKAWAY CABLE TERMINAL, WHEN REQUIRED, WILL BE PAID FOR UNDER ITEM 606.751 COMPLETE IN PLACE WHICH PRICE SHALL BE FULL PAYMENT FOR FURNISHING AND PLACING, GRADING AND COMPACTION OF AGGREGATE SUBBASE, COMMON BORROW, SEED AND MULCH. THE HOT BITUMINOUS PAVEMENT WILL BE PAID FOR UNDER THE APPLICABLE PAVEMENT ITEM.

ITEM NO. 606.751

DETAIL OF WIDENED SHOULDER

FOR BREAKAWAY CABLE TERMINAL

SPEC. 606 GR001



DESIGN OR POSTED SPEED=	65	55	50	45	40	35	30	25
"L" IN FEET/INCH OF THICKNESS=	65	55	50	45	40	35	30	25

NOTES: 1. THE ABOVE LENGTHS ARE INTENDED FOR PROFILE GRADES OF 2% OR LESS. WHEN PROFILE GRADES ARE GREATER THAN 2% "L" MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WHEN DIRECTED BY THE ENGINEER.

2. WHEN CONSTRUCTING BUTT JOINTS AT INTERSECTIONS OR RAMPS "L" SHALL BE 15'/INCH OF THICKNESS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. SPECIAL ATTENTION SHALL BE PAID TO CURB SECTIONS TO ASSURE PROPER DRAINAGE AND THAT THERE ARE NO FLAT AREAS. "L" MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WHEN DIRECTED BY THE ENGINEER.

PAVEMENT OVERLAY

BUTT JOINT DETAIL (ROADWAYS)

SPEC. 202 PV001

NOTES:

1. THESE DETAILS COPIED FROM MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS SHEETS.
2. USE ONLY THOSE ITEMS CALLED FOR ON THE DESIGN DRAWINGS.
3. IN CASE OF CONFLICT BETWEEN THESE STANDARD DETAILS AND THE DESIGN DRAWINGS, THE REQUIREMENTS OF THE DESIGN DRAWINGS SHALL BE FOLLOWED.

No.	Revision	By	Date		By	Date
				Designed	JVC	2/99
				Drawn	JVC	2/99
				Checked	RWB	3/99
				In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
STANDARD DETAILS
MISCELLANEOUS

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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(METPK\BDR-01)

ITEM 609.13 VERTICAL BRIDGE CURB TYPE 1		LF
FROM	TO	
STA. 364+96.67 (12' RT.)	STA. 365+03.33 (12' RT.)	7
STA. 364+96.67 (16' RT.)	STA. 365+03.33 (16' RT.)	7

ITEM 202.1213 REMOVE EXISTING FLAGPOLE FOUNDATION	LS.
STA. 364+53 4' RT.	1

ITEM 606.265 TERMINAL END-SINGLE RAIL-GALVINIZED STEEL	EA
STA. 165+12.5	1
STA. 165+17.5	1
STA. 172.17.5	1
STA. 357+02.5	1
STA. 364+74.5	1
STA. 364+79.5	1
STA. 364+96	1
STA. 365+04	1

ITEM 670.10 FLAGPOLE	EA
STA. 364+40 32' LT.	1

NOTE: FOR SIGN SUMMARY, SEE SHEET TM-1

ITEM 645.271 REGULATORY WARNING CONFIRMATION AND ROUTE ASSEMBLY SIGN	
STA. 160+00 RT.	R8-3
STA. 161+50 RT.	R8-3
STA. 163+00 RT.	R8-3
STA. 164+50 RT.	R8-3
STA. 166+00 RT.	R8-3
STA. 167+50 RT.	R8-3
STA. 169+00 RT.	R8-3
STA. 170+50 RT.	R8-3
STA. 172+00 RT.	R8-3
STA. 358+00 LT.	R8-3
STA. 359+50 LT.	R8-3
STA. 361+00 LT.	R8-3
STA. 362+50 LT.	R8-3
STA. 364+00 LT.	R8-3
STA. 366+00 LT.	R8-3
STA. 367+50 LT.	R8-3
STA. 369+00 LT.	R8-3
STA. 370+50 LT.	R8-3
STA. 242+50 NB	T-1(SIGN)
STA. 288+00 SB	T-1(SIGN)

ITEM 645.251 ROADSIDE GUIDE SIGNS TYPE I	
STA. 244+00 NB	T-3(SIGN)
STA. 285+00 SB	T-3(SIGN)

ITEM 609.31 CURB TYPE 3		LF
FROM	TO	
STA. 363+40, 18' LT.	363+70, 18' LT.	30

PROP. 4' REINFORCED CONC. ISLAND
INSTALL NEW W11-2-A (SIGN)
STA 265+00.00 ME TPKE BL
STA 365+00.00 CONST. BL 157.00' RT.
INSTALL NEW R2-1 (SIGN)
INSTALL NEW W11-2 (SIGN)
INSTALL RELOCATED "TRANSPASS ONLY"
EXISTING WETLANDS BOUNDARY
N43°46'15"E
SLOPE LIMIT LINE (TYP.)
R8-3 (TYP.)
R= 500'
PROP. BIT. CONC. CURB
FLAG POLE
N46°24'01"E
R = 500'
S50°43'13"W
EXISTING WETLANDS BOUNDARY
INSTALL NEW T-2 (SIGN)
T-4(L)
T-4(R)
REMOVE & RELOCATE "TRANSPASS ONLY" INSTALL NEW T-5 (SIGN)
CONSTRUCTION ℄
LIMIT OF WORK
ME TPKE ℄
PC = 362+02.06
PT = 362+25.01
PC = 366+99.87
PT = 367+37.57
357+13.24 SF
SF 362+00
SF 363+00
364+00
366+00
SF 368+00
SF 369+00
SF 370+00
370+84.68
78.43'
+00
257+00
258+00
259+00
260+00
261+00
262+00
263+00
264+00
265+00
266+00
267+00
268+00
269+00
270+00
271+00
272+00
104.09'
+75
71.14'
+00
124.32'
+00
PC = 162+09.02
PT = 162+95.41
PC = 167+10.07
PC = 167+55.50
2.08' RT.
PT = 168+22.67
PT = 168+77.18
9.62' RT.
REMOVE & RELOCATE "TRANSPASS ONLY" INSTALL NEW T-5 (SIGN)
INSTALL NEW T-2 (SIGN)
+02
+98
R = 500'
159+87.86
SF 161+00
162+00
163+00
T-4(R)
T-4(L)
164+00
165+00
166+00
167+00
168+00
169+00
170+00
171+00
172+7.19
CONSTRUCTION ℄
DENSE TREES
S56°17'58"W
R8-3(TYP.)
EXISTING WETLANDS BOUNDARY
STA 265+00.00 ME TPKE BL
STA 165+00.00 CONST. BL 124.00' RT.
INSTALL RELOCATED "TRANSPASS ONLY"
S46°24'01"W
PROP. 4' REINFORCED CONC. ISLAND
R = 500'
R = 500'
PROP. EDGE OF PAVEMENT
N33°58'11"E
N32°20'54"E
EXISTING WETLANDS BOUNDARY

ITEM 606.24 GUARDRAIL TYPE 3d-SINGLE RAIL		LF
FROM	TO	
STA. 160+12.5	STA. 165+12.5	500
STA. 165+17.5	STA. 172+17.5	700
STA. 357+02.5	STA. 364+74.5	772
STA. 364+79.5	STA. 364+96	16.5
STA. 365+04	STA. 370+54	550

ITEM 606.79 GUARDRAIL 350 FLARED TERMINAL		EA
FROM	TO	
STA. 370+54	STA. 370+91.5	1
STA. 159+75	STA. 160+12.5	1

ITEM 609.11 VERTICAL CURB TYPE 1		LF
FROM	TO	
STA. 164+02 (12' LT.)	STA. 164+96.67 (12' LT.)	95
STA. 165+03.33 (12' LT.)	STA. 155+98 (12' LT.)	95
STA. 164+02 (16' LT.)	STA. 164+96.67 (16' LT.)	95
STA. 165+03.33 (16' LT.)	STA. 155+98 (16' LT.)	95
STA. 363+54 (12' RT.)	STA. 364+96.67 (12' RT.)	144
STA. 365+03.33 (12' RT.)	STA. 365+98 (12' RT.)	95
STA. 363+54 (16' RT.)	STA. 364+96.67 (16' RT.)	144
STA. 365+03.33(16' RT.)	STA. 365+98 (16' RT.)	95

ITEM 609.12 VERTICAL CURB TYPE 1-CIRCULAR		LF
FROM	TO	
STA. 164+02 (12' LT.)	STA. 164+02 (16' LT.)	7
STA. 165+98 (12' LT.)	STA. 165+98 (16' LT.)	7
STA. 363+54 (12' RT.)	STA. 363+54 (16' RT.)	7
STA. 365+98 (12' RT.)	STA. 365+98 (16' RT.)	7

ITEM 656.632 30" TEMPORARY SILT FENCE		LF
FROM	TO	
STA. 159+05 (10' RT.)	STA. 172+42 (10' RT.)	1337
STA. 356+88 (10' LT.)	STA. 362+82 (18' LT.)	594
STA. 366+75 (16' LT.)	STA. 371+65 (10' LT.)	490

ITEM 645.292 REMOVE AND RESET GUIDE SIGN TYPE II		EA
REMOVE	RESET	
STA. 160+58 RT.	STA. 159+00 RT.	1

ITEM 606.3691 GUARDRAIL REMOVED AND STACKED		LF
FROM	TO	
STA. 364+64.5 LT.	STA. 364+77 LT.	12.5
STA. 364+80 LT.	STA. 364+96 LT.	16
STA. 365+04 LT.	STA. 366+16.5 LT.	112.5

ITEM 645.105 REMOVE AND STACK REGULATORY WARNING AND ROUTE MARKER ASSEMBLY SIGNS	EA
STA. 363+75 13' LT.	1
STA. 363+75 5' RT.	1
STA. 364+08 5' RT.	1
STA. 162+50 7' LT.	1

ITEM 606.363 GUARDRAIL REMOVED AND DISPOSED		LF
FROM	TO	
STA. 163+80.2 RT.	STA. 165+17.5 RT.	137.5
STA. 165+20.5 RT.	STA. 165+33 RT.	12.5
STA. 165+79	LIGHT POLE	12.5
STA. 167+40	LIGHT POLE	12.5
STA. 171+22	LIGHT POLE	12.5

50 25 0 50 100 150 200
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	RWB	2/99
In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
SITE PLAN

HNTB
ARCHITECTS ENGINEERS PLANNERS

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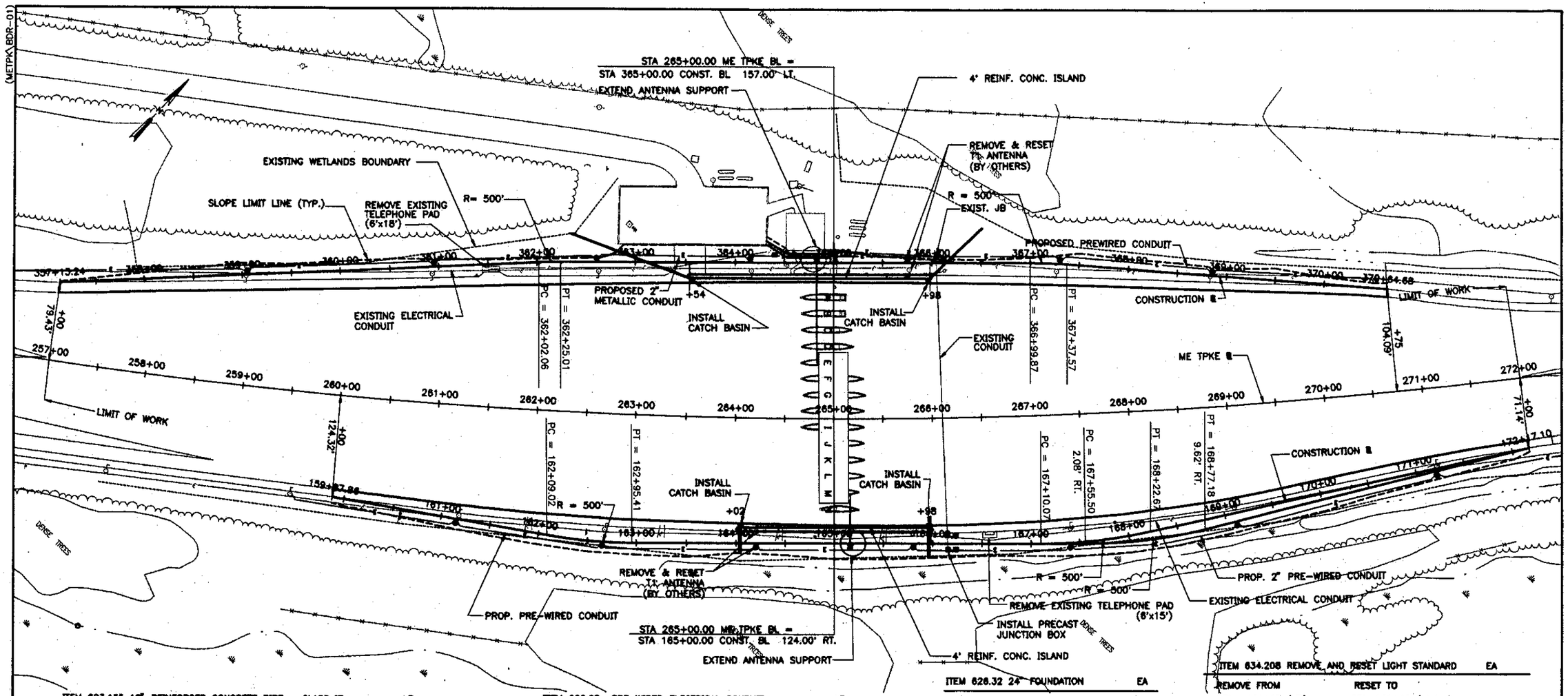

ITEM 603.155 12" REINFORCED CONCRETE PIPE – CLASS III — LF

FROM	TO	
STA. 363+56 (16' RT.)	STA. 362+35 (29' LT.)	130
STA. 365+96 (18' RT.)	STA. 366+50 (35 LT.)	76
STA. 164+04 (16' LT.)	STA. 164+04 (13' RT.)	29
STA. 165+96 (16' LT.)	STA. 165+96 (12' RT.)	28

ITEM 604.09 CATCH BASIN TYPE B-1 — EA

STA. 363+56 (18' RT.)	1
STA. 365+96 (18' RT.)	1
STA. 164+04 (18' LT.)	1
STA. 165+96 (18' LT.)	1

ITEM 626.11 PRECAST JUNCTION BOX — EA

STA. 166+15 (4' RT.)	1

ITEM 626.212 2" METALLIC CONDUIT — LF

FROM	TO	
STA. 164+92 (8' LT.)	STA. 164+97 (4' RT.)	20
STA. 364+92 (8' LT.)	STA. 364+97 (4' RT.)	20

ITEM 626.23 PRE-WIRED ELECTRICAL CONDUIT — LF

FROM	TO	
STA. 159+45 (3' RT.)	STA. 161+15 (4' RT.)	170
STA. 161+15 (4' RT.)	STA. 162+65 (4' RT.)	150
STA. 162+65 (4' RT.)	STA. 164+20 (4' RT.)	155
STA. 164+20 (4' RT.)	STA. 165+80 (4' RT.)	160
STA. 165+80 (4' RT.)	STA. 166+15 (4' RT.)	35
STA. 166+15 (4' RT.)	STA. 167+40 (4' RT.)	125
STA. 167+40 (4' RT.)	STA. 169+10 (14' RT.)	170
STA. 169+10 (14' RT.)	STA. 171+20 (4' RT.)	210
STA. 171+20 (4' RT.)	STA. 173+86 (3' RT.)	266
STA. 356+50 (3' LT.)	STA. 359+05 (4' LT.)	255
STA. 359+05 (4' LT.)	STA. 359+95 (4' LT.)	90
STA. 359+95 (4' LT.)	STA. 362+60 (4' LT.)	265
STA. 362+60 (4' LT.)	STA. 364+15 (4' LT.)	155
STA. 364+15 (4' LT.)	STA. 365+75 (4' LT.)	160
STA. 365+75 (4' LT.)	STA. 366+02 (8' LT.)	27
STA. 366+02 (8' LT.)	STA. 367+30 (4' LT.)	128
STA. 367+30 (4' LT.)	STA. 368+85 (4' LT.)	155
STA. 368+85 (4' LT.)	STA. 370+67 (7' LT.)	182

ITEM 626.32 24" FOUNDATION — EA

STA. 161+15 (4' RT.)	1
STA. 162+65 (4' RT.)	1
STA. 164+20 (4' RT.)	1
STA. 165+80 (4' RT.)	1
STA. 167+40 (4' RT.)	1
STA. 169+10 (14' RT.)	1
STA. 171+20 (4' RT.)	1
STA. 359+05 (4' LT.)	1
STA. 359+95 (4' LT.)	1
STA. 362+60 (4' LT.)	1
STA. 364+15 (4' LT.)	1
STA. 365+75 (4' LT.)	1
STA. 367+30 (4' LT.)	1
STA. 368+85 (4' LT.)	1

ITEM 626.361 REMOVE AND STACK CONCRETE FOUNDATION — EA

* REMOVE AND STACK CONCRETE FOUNDATION	7

ITEM 626.362 REMOVE AND DISPOSE CONCRETE FOUNDATION — EA

** REMOVE AND DISPOSE CONCRETE FOUNDATION	7

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD — EA

REMOVE FROM	RESET TO	
STA. 161+17 (LT.) **	STA. 161+15 (4' RT.)	1
STA. 162+67 (LT.) **	STA. 162+65 (4' RT.)	1
STA. 164+20 (LT.) **	STA. 164+20 (4' RT.) #1	1
STA. 165+79 (LT.) **	STA. 165+80 (4' RT.)	1
STA. 167+40 (LT.) **	STA. 167+40 (4' RT.)	1
STA. 169+11 (LT.) **	STA. 169+10 (14' RT.)	1
STA. 171+22 (LT.) **	STA. 171+20 (5' RT.)	1
STA. 359+04 (RT.) *	STA. 359+05 (4' LT.)	1
STA. 360+93 (RT.) *	STA. 359+95 (4' LT.)	1
STA. 362+63 (RT.) *	STA. 362+60 (4' LT.)	1
STA. 364+17 (RT.) *	STA. 364+15 (4' LT.)	1
STA. 365+75 (RT.) *	STA. 365+75 (4' LT.)	1
STA. 367+27 (RT.) *	STA. 367+30 (4' LT.)	1
STA. 368+83 (RT.) *	STA. 368+85 (4' LT.)	1

#1 = INCLUDING FLOOD LIGHTS

No.	Revision	By	Date

	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	RWB	2/99
In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans Pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
UTILITY PLAN

HNTB

Contract 99.4

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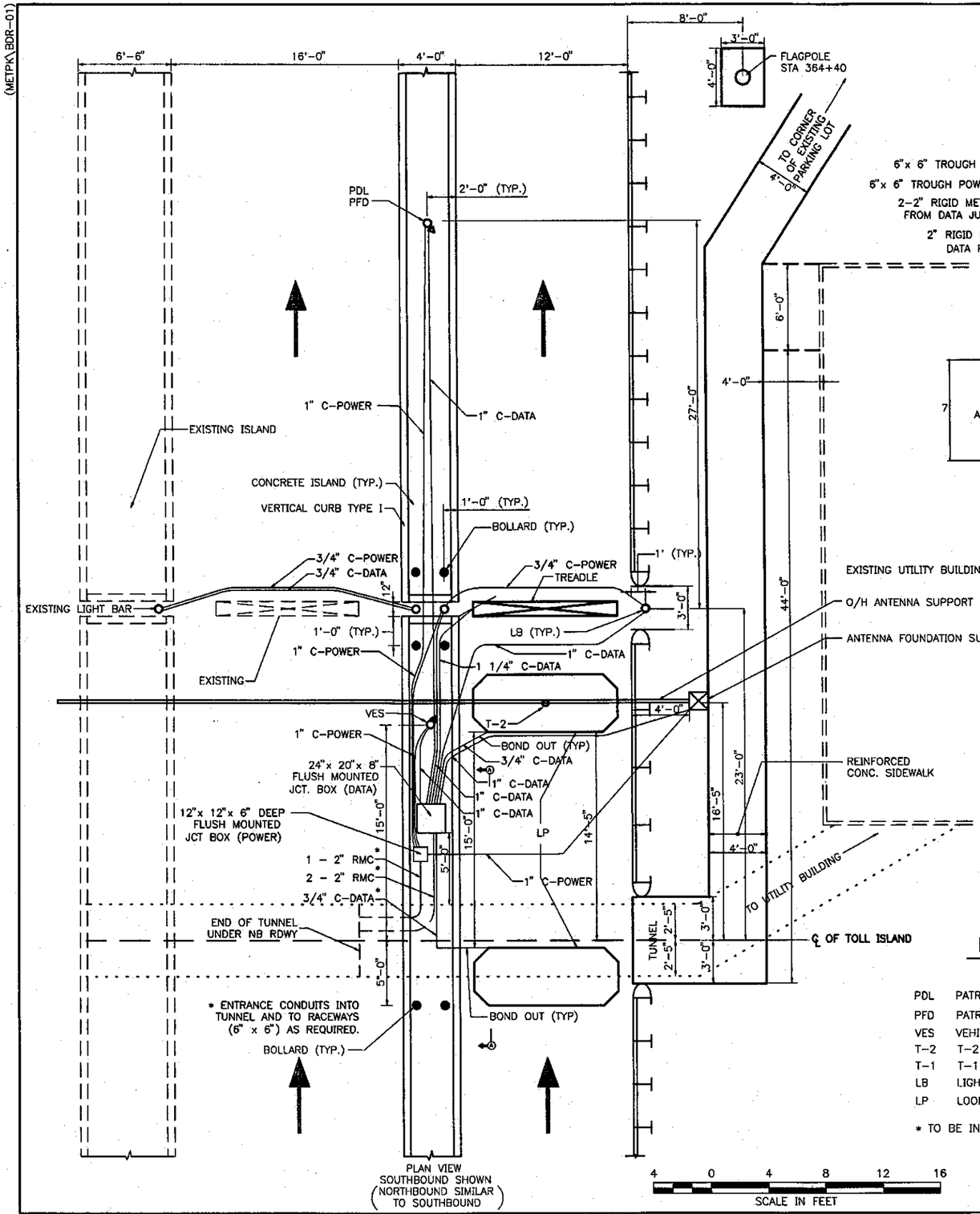
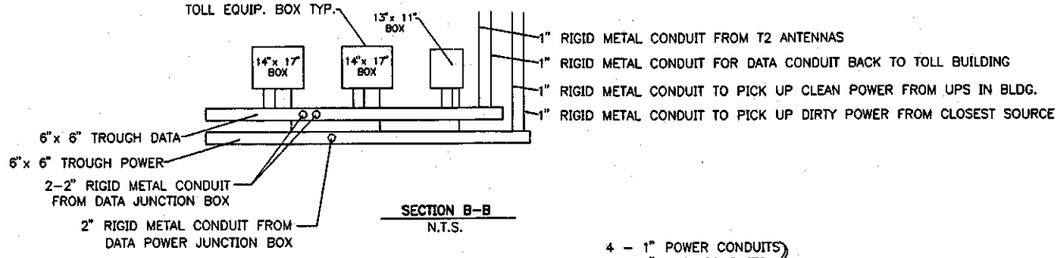
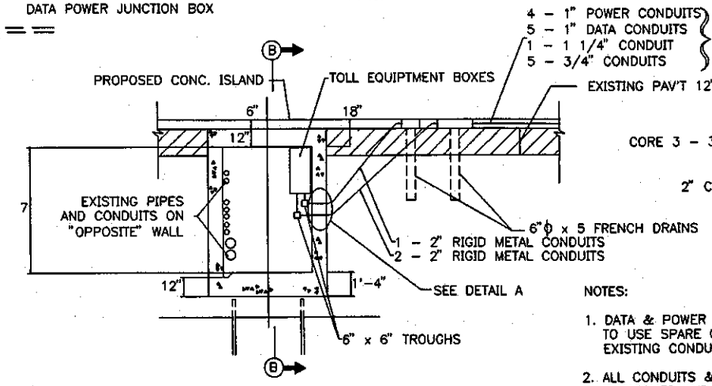
(METPK\BDR-01)

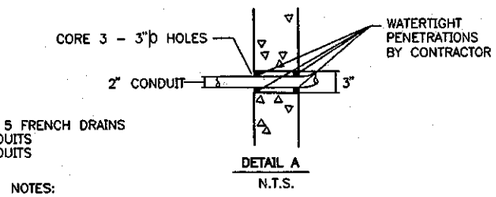




SECTION B-B
N.T.S.



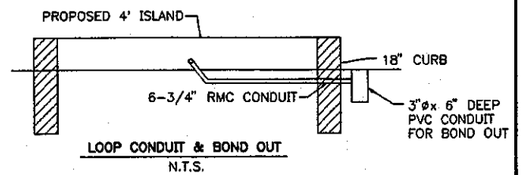
SECTION A-A
N.T.S.



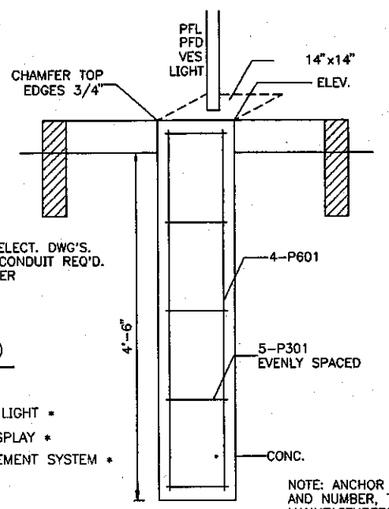
DETAIL A
N.T.S.

NOTES:

1. DATA & POWER WIRES BACK TO TOLL BLDG. TO USE SPARE OR UNDERUTILIZED EXISTING CONDUITS IN TUNNEL.
2. ALL CONDUITS & TROUGHS SHOWN IN TUNNEL TO BE FURNISHED AND INSTALLED BY CONTRACTOR. ALL DATA WIRES & TOLL EQUIP. BOXES FURNISHED BY OTHERS AND INSTALLED BY CONTRACTOR. POWER WIRES PROVIDED BY CONTRACTOR.

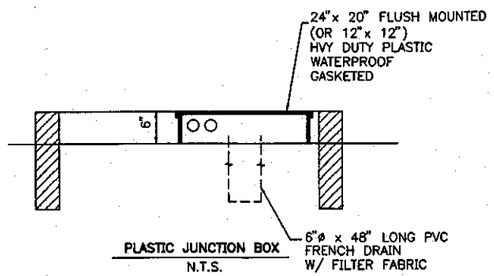


LOOP CONDUIT & BOND OUT
N.T.S.



ETC FOUNDATIONS
N.T.S.

NOTE: ANCHOR BOLTS LOCATIONS AND NUMBER, TO MEET MANUFACTURERS SPECIFICATIONS



PLASTIC JUNCTION BOX
N.T.S.

LEGEND

PDL	PATRON DISPLAY LIGHT *
PFD	PATRON FARE DISPLAY *
VES	VEHICLE ENFORCEMENT SYSTEM *
T-2	T-2 ANTENNA *
T-1	T-1 ANTENNA *
LB	LIGHT BAR *
LP	LOOP DETECTOR *

* TO BE INSTALLED BY OTHERS

No.	Revision	By	Date

In Charge Of: RAL	By	Date
Designed	RWB	2/99
Drawn	WEF	2/99
Checked	RWB	2/99

Maine Turnpike Authority
Maine Turnpike

Trans Pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
TYPICAL LANE MODIFICATION DETAILS

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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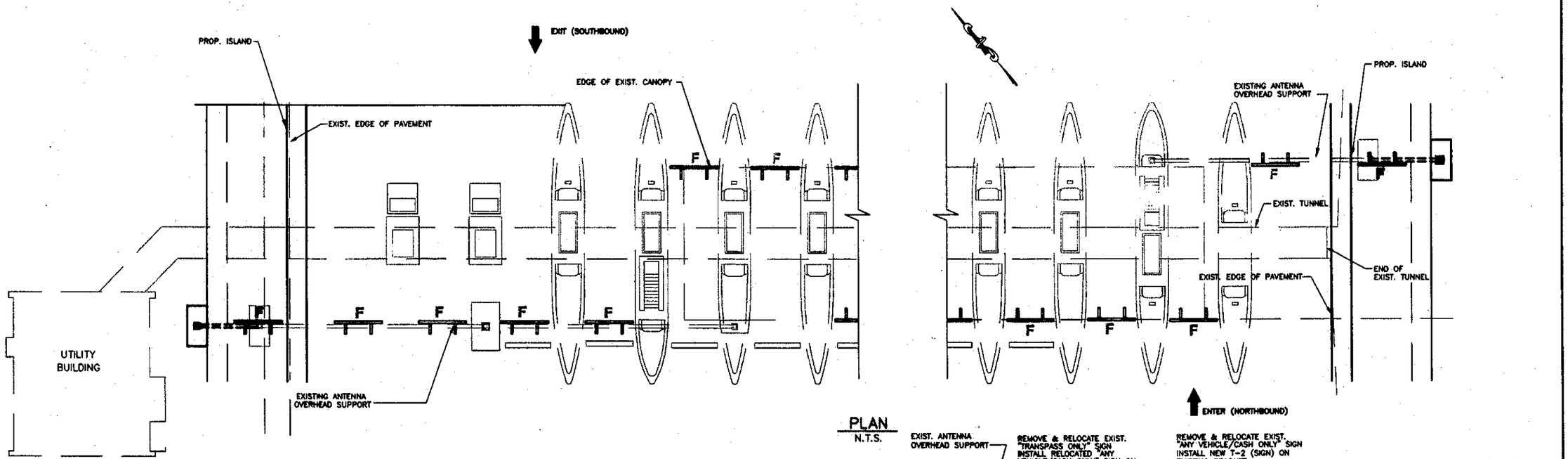
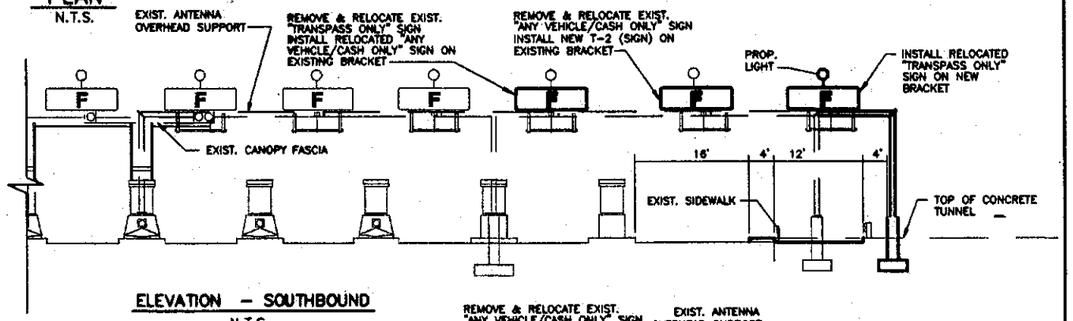
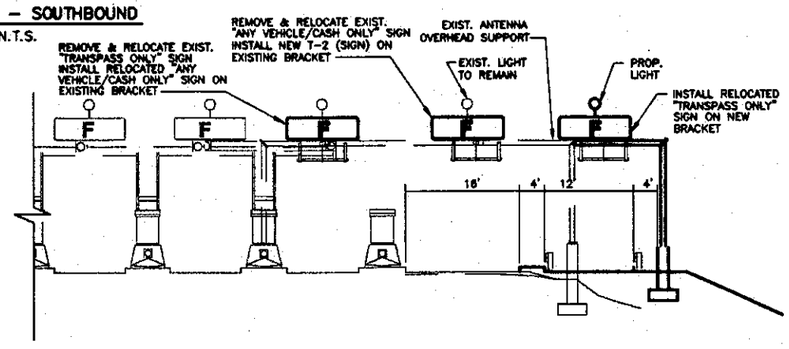


PLAN
N.T.S.



ELEVATION – SOUTHBOUND
N.T.S.



ELEVATION – NORTHBOUND
N.T.S.

LEGEND

EXISTING TOLL CANOPY SUPPORT MOUNTED SIGN

F FIXED SIGN

R ROTATING SIGN

No.	Revision	By	Date

	By	Date
Designed	WEF	2/99
Drawn	BDH	2/99
Checked	RWB	2/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA

TOLL PLAZA MODIFICATIONS
CANOPY SIGNS

HNTB
ARCHITECTS ENGINEERS PLANNERS

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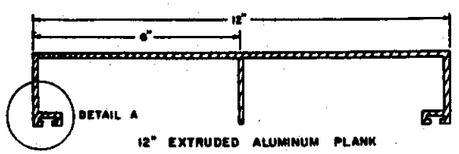
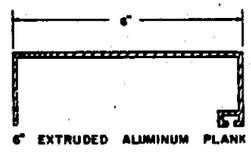
(METPK\BDR-01)

TYPE I GUIDE SIGNS

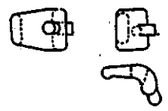
ITEM NO. 645.251



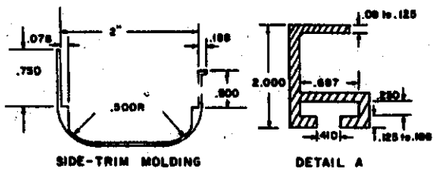
12" EXTRUDED ALUMINUM PLANK



6" EXTRUDED ALUMINUM PLANK

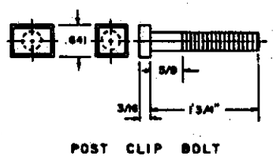


'POST CLIP

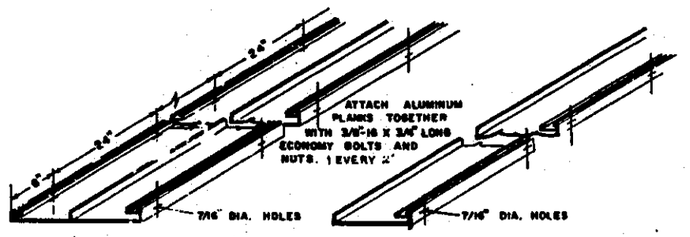


SIDE-TRIM MOLDING

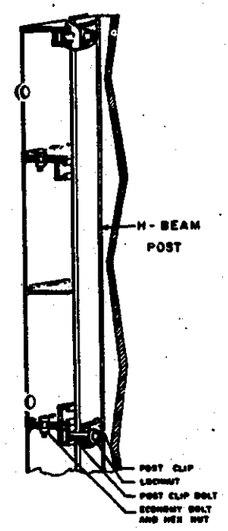
DETAIL A

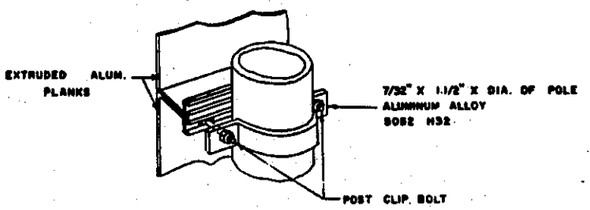


POST CLIP BOLT



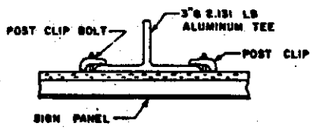
BOLT HOLE PUNCHING LOCATION PLAN FOR ROADSIDE AND OVERHEAD SIGNS



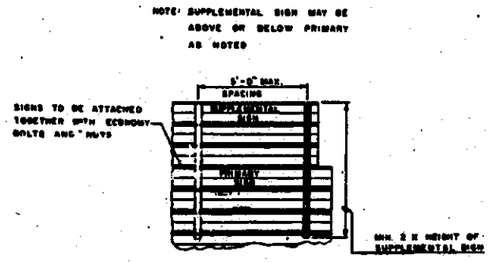


SUGGESTED POST CLAMP DETAILS FOR TYPE I GUIDE SIGNS

NOTE: TYPE I REGULATORY, WARNING AND CONFIRMATION SIGNS SHALL BE INSTALLED A MINIMUM OF 6' TO THE EDGE OF SIGN FROM EDGE OF PAVEMENT OR AS NOTED ON THE PLANS.



DETAIL FOR SIGNS REQUIRING NESTED FASTENING ALUMINUM TEE WITH J HOOK

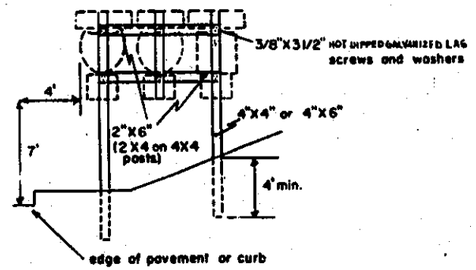


TYPE II SIGNS

NOTES

REFER TO SECTION 645.061 OF STANDARD SPECIFICATIONS TO DETERMINE SIZE OF WOOD POSTS, OR AS NOTED ON SIGN ASSEMBLY SHEET.

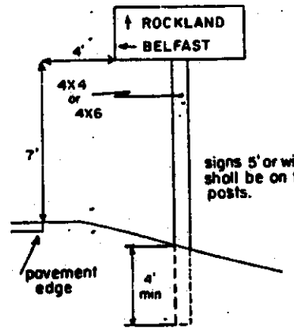
ALSO, ALL WOOD & BRACKETS SHALL BE PRESSURE TREATED TO CCA 40.



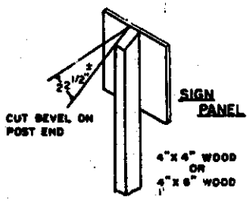
TYPICAL SIGN ASSEMBLY

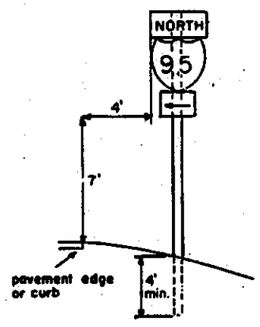
AS SHOWN ON SIGN ASSEMLY SHEET

ITEM NO. 645.291
645.292



DESTINATION SIGN





ROUTE MARKER ASSEMBLY

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
SIGN STANDARD DETAILS

Trans pass

HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date

	By	Date
Designed		
Drawn		
Checked	RWB	3/99
In Charge Of	RAL	

Contract 99.4

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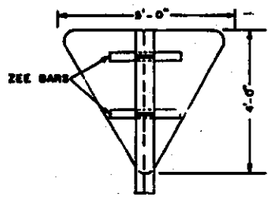
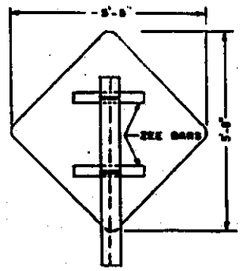
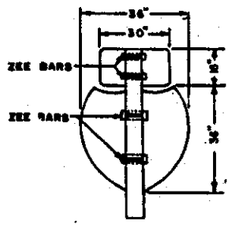
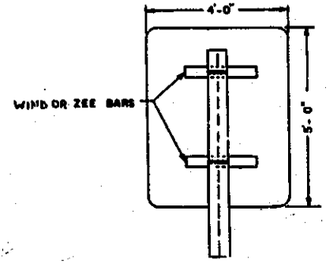
TYPE I REGULATORY, WARNING AND ROUTE MARKER ASSEMBLY SIGNS



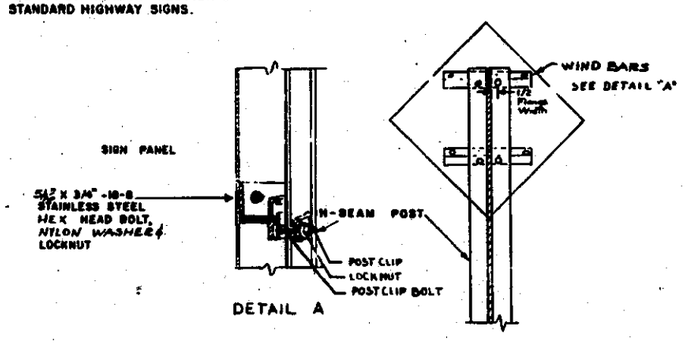
SEE W BAR DETAIL FOR POST CLAMPS







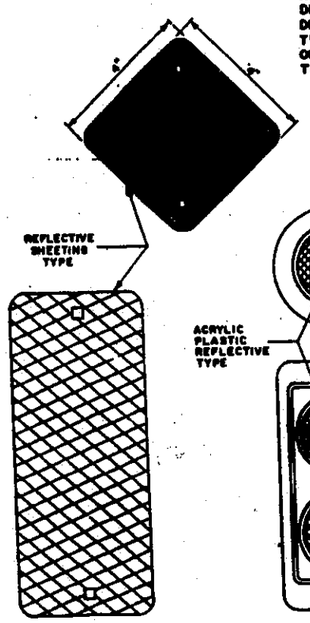
NOTE:
BOLT HOLES IN SIGN PANELS SHALL BE LOCATED ACCORDING TO THE "BLANK STANDARDS" SECTION OF STANDARD HIGHWAY SIGNS.

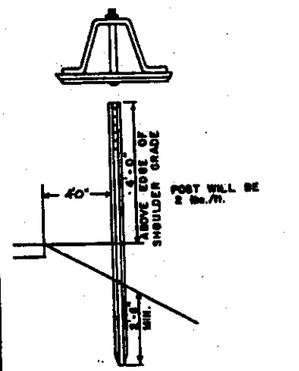


METHOD OF ATTACHING SIGN TO H-BEAM POST

DELINEATORS

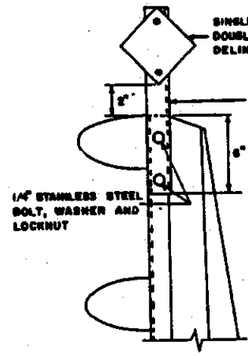
NOTE:
DELINEATOR LOCATION TO BE DETERMINED BY THE ENGINEER. TWO TYPES OF DELINATORS ARE SHOWN. ONE TYPE SHALL BE USED THROUGHOUT THE PROJECT.



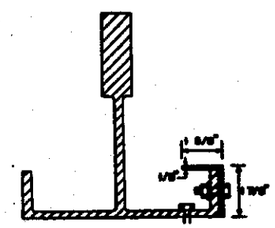


TO BE PLACED 4 FEET FROM SHOULDER EDGE 4 FEET FROM FACE OF CURB SECTIONS.

U-CHANNEL POSTS



BRIDGE RAILING



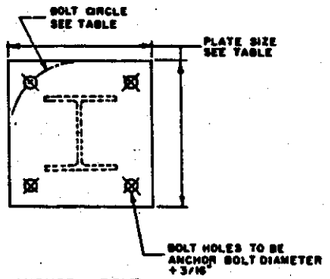
POST SECTION

BRIDGE RAIL MOUNTING

STANDARD H-BEAM POSTS

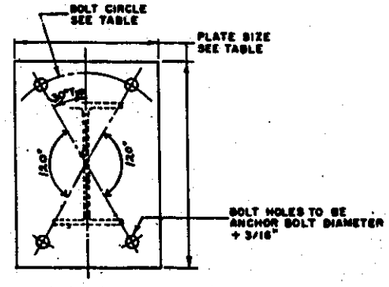
SINGLE SUPPORT SIGNS								
Foundation Diameter	Sign Area (A)	Sign Width (W)	Post Size	Base Plate (1) (3)	Material	Anchor Bolts (2)	Bolt Circle	Maximum Mounting Height
	0-21 ft²		Wood Post 6"x6"					
18"	21< A ≤ 25ft²	W = 5'-0" Max.	W6 x 15	12"x12"x1" 4 lbs.	A36	1"Ø 3'-0"	12"	12 Feet To Sign Center
24"	25< A ≤ 36 ft²	W = 6'-0" Max.	W8 x 24	14"x14"x1" 85 lbs.	A36	1¼"Ø x 3'-6"	14"	

MULTIPLE SUPPORT SIGNS								
24"	To 60 ft²/ Post		W8 x 18	14"x14"x1" 93 LBS	A36	1 1/4"Ø x 3'-6"	14"	20 Feet to Sign Center
24"	60-85 ft²/ Post		W10 x 22	12 5/8"x 1 1/4" 72 LBS	A36	1 1/4"Ø x 3'-6"	15"	
30"	85-110 ft²/ Post		W12 x 26	13"x 19"x 1 1/4" 97 LBS	A36	1 1/2"Ø x 4'-0"	17"	
30"	110-135 ft²/ Post		W14 x 30	14"x 21"x 1 1/4" 109 LBS	A36	1 1/2"Ø x 4'-0"	19"	



ANCHOR BOLT LAYOUT

(W6 x 9, W8 x 15, W8 x 18, W8 x 24)



ANCHOR BOLT LAYOUT

(W10 x 22, W12 x 26, W14 x 30)

NOTE:
1. FOR BOLT LAYOUT SEE BOLT LAYOUT PLANS LEFT.
2. BOLTS TO HAVE 50,000 P.S.I. MINIMUM YIELD STRENGTH.
3. POST TO BASE PLATE WELD SHALL BE 5/16" FILLET WELD.
4. BASE PLATES AND H-BEAMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 720.06.
5. PAYMENT FOR THE WEIGHT OF BASE PLATES SHALL BE INCIDENTAL TO ITEM No. 645.289.
6. ON H-BEAM POSTS TO BE EQUIPPED WITH BREAKAWAY DEVICES SHALL BE DRILLED BEFORE THE POST IS GALVANIZED, IN ACCORDANCE WITH SECTION 720.06.

No.	Revision	By	Date

	By	Date
Designed		
Drawn		
Checked	RWB	3/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
SIGN POST DETAILS

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. SPD-2
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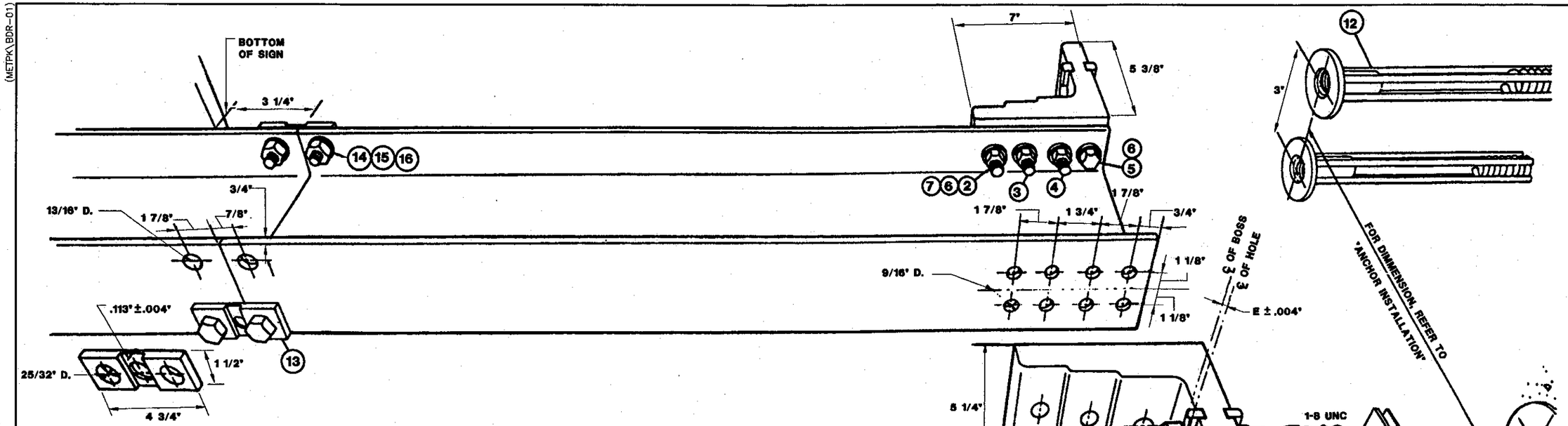
(METPK\BDR-01)



INSTALLATION NOTES

Wrench sizes required: 9/16", 7/8", 1-1/16", 1-1/4", 1-7/16", 1-5/8".

BRACKET ASSEMBLY

Assemble brackets to post with bolts provided. Square and tighten. (Items (1) (2) (3) (4) (5) (6) and (7))

ANCHOR ASSEMBLY

Assemble coupling anchors (12) to installation template (not shown).

Lower entire anchor assembly into fresh concrete and vibrate into position so that the tops of the individual anchors (12) are flush with the finished top surface of the footings.

COUPLING ASSEMBLY

Suspend post over footing and insert special bolts (8) through brackets (1).

Below bracket, thread couplings (9) into anchors (12) but leave loose.

Lower post with special bolts (8) onto loose couplings (9) and thread special bolts into couplings. Thread couplings all the way into anchors (12).

Tighten special bolts (8) with 1-5/8" wrench. NOTE! Do not place torque across necked down portion of coupling - wrench flats are provided on either side for proper tightening.

If post is not plumb, insert shims (10) and (11) between couplings (9) and anchors (12).

HINGE ASSEMBLY

Butt upper and lower posts together on flat surface.

Place hinge plates (13) on outer flanges and secure with 3/4-UNC bolts (14) (15) and (16) - snug but do not tighten.

Make sure upper and lower posts are in alignment; then tighten all nuts (16) to proof load - 1/2 of a turn beyond snug.

GENERAL NOTES

Meets all AASHTO "Standard specifications for structural supports for highway signs, luminaires and traffic signals".

All hardware is to be hot dip galvanized per ASTM A153 or mechanically galvanized per ASTM B695.

Fasteners, except for special bolt and coupling, are installed with lockwashers or locknuts and do not have specific torque requirements. Fasteners should be made as tight as possible with conventional wrenches unless noted otherwise.

Square and level individual components to minimize need for shimming.

No more than two shims underneath any one coupling and no more than three shims underneath any two couplings.

Structural steel to be hot dip galvanized per ASTM A123 after fabrication.

All brackets to be permanently labeled with the appropriate bracket type and bracket selection number.

Select correct bracket number by locating the intersection of sign height and post length in the bracket selection matrix. The intersection will be either Zone 1, 2, or 3 which corresponds to bracket numbers 1, 2, or 3.

6" POST

POST LENGTH

SIGN HEIGHT	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

1 = 3 2 = 2 3 = 1

8" POST

POST LENGTH

SIGN HEIGHT	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

1 = 3 2 = 2 3 = 1

BRACKET TABLES

BILL OF MATERIALS

ITEM	DESCRIPTION		QTY POST	PART NO.
1	Bracket	6061 T6 Aluminum (See Bracket Selection Table)	2	SBBK525-1A,-2A,-3A
2	Bolt	Top, 1/2" - 13UNCx2-1/2" Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG5250
3	Bolt	Middle, 1/2" - 13UNCx2-3/4", Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG5275
4	Bolt	Bottom, 1/2" - 13UNCx3", Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG5300
5	Cap Screw	Bracket, 1/2"-13UNCx1-1/4", Hex Hd., ASTM A307, Galv. ASTM A153	4	S307SG5125
6	Lockwasher	1/2", ANSI B18-21-1, Galv. ASTM A153	16	S100WGSL50
7	Nut	1/2"-13UNC, Heavy Hex, ASTM A563 GR, DH, Galv. ASTM A153	12	S563NGH50D
8	Special Bolt	1"-8UNC, ASTM A325, Galv. ASTM B695/ASTM A153	4	SBCSBB
9	Coupling	1"-8UNC, LP., AMS 6378D*, Galv. ASTM A153, Polyester Coat.**	4	SBCB1B
10	Shim	1" Horseshoe, 18 Gauge, Galv. Steel Sheet	2	S100WGSH18
11	Shim	1" Horseshoe, 14 Gauge, Galv. Steel Sheet	2	S100WGSH14
12	Anchor	1"-8UNC, 304 Stainless Steel Ferrule, AISI 1038 Rod & AISI 1008 Coil	4	SBABP
13	Hinge Plate	Type B525, AISI 4130, Galv. ASTM A123	4	SBHB1B
14	Bolt	Hinge, 3/4"-10UNCx2-1/4", Hex Hd., ASTM A325, Galv. ASTM A153	8	S325BG7225
15	Lockwasher	3/4", ANSI B18-21-1, Galv. ASTM A153	8	S100WGSL70
16	Nut	3/4"-10UNC, Heavy Hex, ASTM A563, GR, DH, Galv. ASTM A153	8	S563NGH70D

* With exception to decarburization and macrostructure clauses.

** 1-3 Mil. thick Morton Powder Coatings' 20-7037 polyester powder coat.

No.	Revision	By	Date

	By	Date
Designed	KPD	3/97
Drawn	KPD	3/97
Checked	PTG	3/97
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
BREAKAWAY SUPPORTS
B-525-LP

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. SP-3
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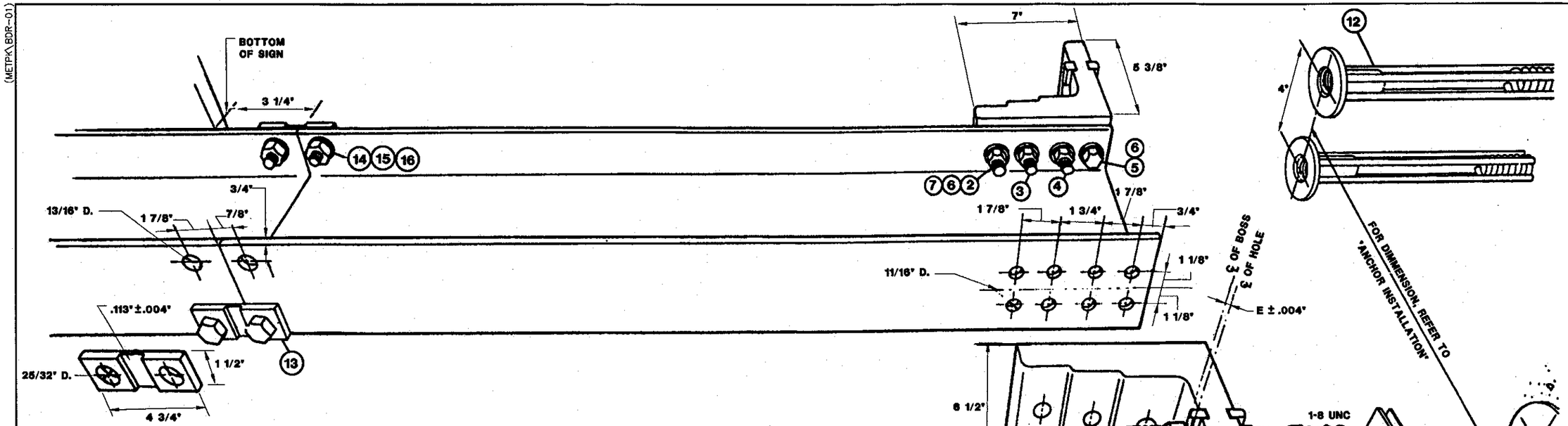
H:\H09009XW\002\YORK TOLL\BREAK525.DWG 03/09/99 09:55

(METPK\BDR-01)



INSTALLATION NOTES

Wrench sizes required: 9/16", 7/8", 1-1/16", 1-1/4", 1-7/16", 1-5/8".

BRACKET ASSEMBLY

Assemble brackets to post with bolts provided. Square and tighten. (Items (1) (2) (3) (4) (5) (6) and (7))

ANCHOR ASSEMBLY

Assemble coupling anchors (12) to installation template (not shown).

Lower entire anchor assembly into fresh concrete and vibrate into position so that the tops of the individual anchors (12) are flush with the finished top surface of the footings.

COUPLING ASSEMBLY

Suspend post over footing and insert special bolts (8) through brackets (1).

Below bracket, thread couplings (9) into anchors (12) but leave loose.

Lower post with special bolts (8) onto loose couplings (9) and thread special bolts into couplings. Thread couplings all the way into anchors (12).

Tighten special bolts (8) with 1-5/8" wrench. NOTE! Do not place torque across necked down portion of coupling - wrench flats are provided on either side for proper tightening.

If post is not plumb, insert shims (10) and (11) between couplings (9) and anchors (12).

HINGE ASSEMBLY

Butt upper and lower posts together on flat surface.

Place hinge plates (13) on outer flanges and secure with 3/4-UNC bolts (14) (15) and (16) - snug but do not tighten.

Make sure upper and lower posts are in alignment; then tighten all nuts (16) to proof load - 1/2 of a turn beyond snug.

GENERAL NOTES

Meets all AASHTO "Standard specifications for structural supports for highway signs, luminaires and traffic signals".

All hardware is to be hot dip galvanized per ASTM A153 or mechanically galvanized per ASTM B695.

Fasteners, except for special bolt and coupling, are installed with lockwashers or locknuts and do not have specific torque requirements. Fasteners should be made as tight as possible with conventional wrenches unless noted otherwise.

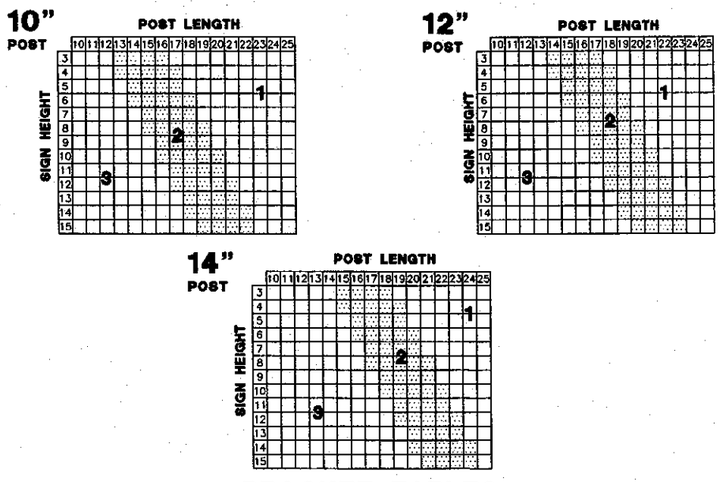
Square and level individual components to minimize need for shimming.

No more than two shims underneath any one coupling and no more than three shims underneath any two couplings.

Structural steel to be hot dip galvanized per ASTM A123 after fabrication.

All brackets to be permanently labeled with the appropriate bracket type and bracket selection number.

Select correct bracket number by locating the intersection of sign height and post length in the bracket selection matrix. The intersection will be either Zone 1, 2, or 3 which corresponds to bracket numbers 1, 2, or 3.



BRACKET TABLES

BILL OF MATERIALS

ITEM	DESCRIPTION		QTY POST	PART NO.
1	Bracket	6061 T6 Aluminum (See Bracket Selection Table)	2	SBBK650-1A,-2A,-3A
2	Bolt	Top, 5/8" - 11UNCx2-3/4" Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG6275
3	Bolt	Middle, 5/8" - 11UNCx3", Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG6300
4	Bolt	Bottom, 5/8" - 11UNCx3-1/4", Hex Hd., ASTM A325, Galv. ASTM A153	4	S325BG6325
5	Cap Screw	Bracket, 5/82"-11UNCx1-1/4", Hex Hd., ASTM A307, Galv. ASTM A153	4	S307SG6125
6	Lockwasher	5/8", ANSI B18-21-1, Galv. ASTM A153	16	S100WGSL60
7	Nut	5/8"-11UNC, Heavy Hex, ASTM A563 GR, DH, Galv. ASTM A153	12	S563NGH60D
8	Special Bolt	1"-8UNC, ASTM A325, Galv. ASTM B695/ASTM A153	4	SBCSBB
9	Coupling	1"-8UNC, LP., AMS 6378D*, Galv. ASTM A153, Polyester Coat.**	4	SBCB1B
10	Shim	1" Horseshoe, 18 Gauge, Galv. Steel Sheet	2	S100WGSH18
11	Shim	1" Horseshoe, 14 Gauge, Galv. Steel Sheet	2	S100WGSH14
12	Anchor	1"-8UNC, 304 Stainless Steel Ferrule, AISI 1038 Rod & AISI 1008 Coil	4	SBABP
13	Hinge Plate	Type B650, AISI 4130, Galv. ASTM A123	4	SBHB2B
14	Bolt	Hinge, 3/4"-10UNCx2-1/4", Hex Hd., ASTM A325, Galv. ASTM A153	8	S325BG7225
15	Lockwasher	3/4", ANSI B18-21-1, Galv. ASTM A153	8	S100WGSL70
16	Nut	3/4"-10UNC, Heavy Hex, ASTM A563, GR, DH, Galv. ASTM A153	8	S563NGH70D

* With exception to decarburization and macrostructure clauses.

** 1-3 Mil. thick Morton Powder Coatings' 20-7037 polyester powder coat.

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
BREAKAWAY SUPPORTS
B-650-LP

HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date		By	Date
				Designed	KPD	3/97
				Drawn	KPD	3/97
				Checked	PTG	3/97
				In Charge Of:	RAL	

Contract 99.4

Sheet No. SP-3
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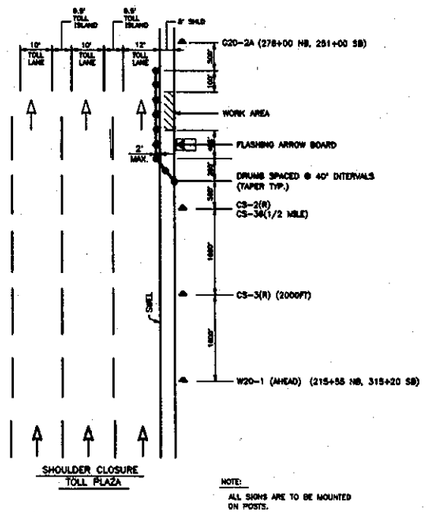
(METPK\BDR-01)



NOTE:
ALL SIGNS ARE TO BE MOUNTED ON POSTS.

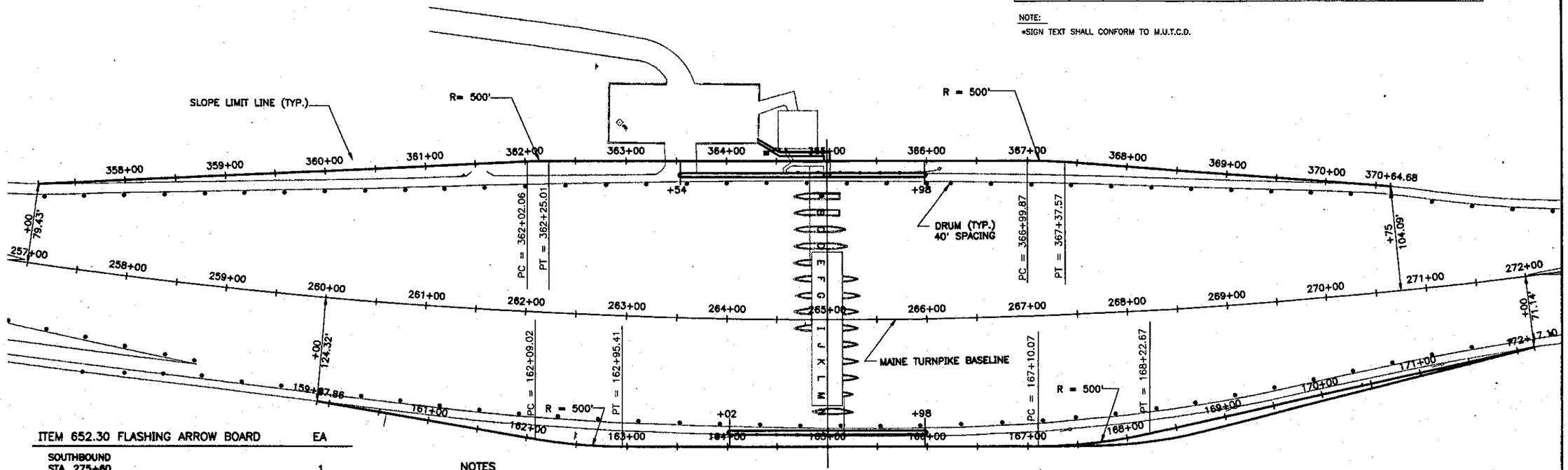
SITE PLAN SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN * WIDTH (IN.)	SIZE OF SIGN * HEIGHT (IN.)	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE.MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACKGROUND	COLOR LEGEND BORDER	TOTAL AREA IN SQUARE FEET/SIGN
R2-1	24	30	SPEED LIMIT 5	6" C 6" C 6" C	6"		1	WHITE	BLACK	5.00 (5)
W11 2-A	36	36		6" C 6" C	2'		1	YELLOW	BLACK	9.0 (9)
W11-2	36	36		6" C 6" C	2'		1	YELLOW	BLACK	9.0 (9)
R8-3	36	48	NO STOPPING				17	WHITE	RED	12.00 (204)

PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN * WIDTH (IN.)	SIZE OF SIGN * HEIGHT (IN.)	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE.MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACKGROUND	COLOR LEGEND BORDER	TOTAL AREA IN SQUARE FEET/SIGN
CS-2R	48	48	RIGHT SHOULDER CLOSED	6" C 6" C 6" C	6"		4	ORANGE	BLACK	16.00 (64)
CS-36	24	18	NEXT 1/2 MILE	6" C 6" C	2"		4			3.0 (12)
CS-3(R)	48	48	RIGHT SHOULDER CLOSED 2000 FT.	6" C 6" C 6" C 6" C	6" 6"		4			16.00 (64)
G20-2A	48	24	END ROAD WORK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 1979			4			8.00 (32)
W20-1 (XXX)	48	48	ROAD WORK XXX				5	ORANGE	BLACK	16.00 (80)

NOTE:
*SIGN TEXT SHALL CONFORM TO M.U.T.C.D.



ITEM 652.30 FLASHING ARROW BOARD	EA
SOUTHBOUND STA. 275+60	1
NORTHBOUND STA. 255+15	1

ITEM 652.33 DRUM	EA
SOUTHBOUND STA. 278+20 TO STA. 256+00	60
NORTHBOUND STA. 252+55 TO STA. 273+00	60

NOTES

1. ON THE NORTHBOUND SIDE OF THE TURNPIKE, PLACE THE TWO W20-1 SIGNS (ONE ON EACH SIDE OF THE NORTHBOUND ROADWAY AS SHOWN) AT STA. 215+55 (MAINE TURNPIKE BASELINE)
2. ON THE SOUTHBOUND SIDE OF THE TURNPIKE, PLACE THE TWO W20-1 SIGNS (ONE ON EACH SIDE OF THE SOUTHBOUND ROADWAY AS SHOWN) AT STA. 315+20 (MAINE TURNPIKE BASELINE)
3. ON THE NORTHBOUND ON-RAMP FROM CHASES POND ROAD PLACE ONE W20-1 (1000 FT.) SIGN ON RIGHT SIDE OF RAMP. LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

50 25 0 50 100 150 200
SCALE IN FEET

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
TRAFFIC MAINTENANCE

HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date	In Charge Of: RAL		By	Date
				Designed	DLP	DLP	2/99
				Drawn	DLP	DLP	2/99
				Checked	RWB	RWB	2/99

Contract 99.4

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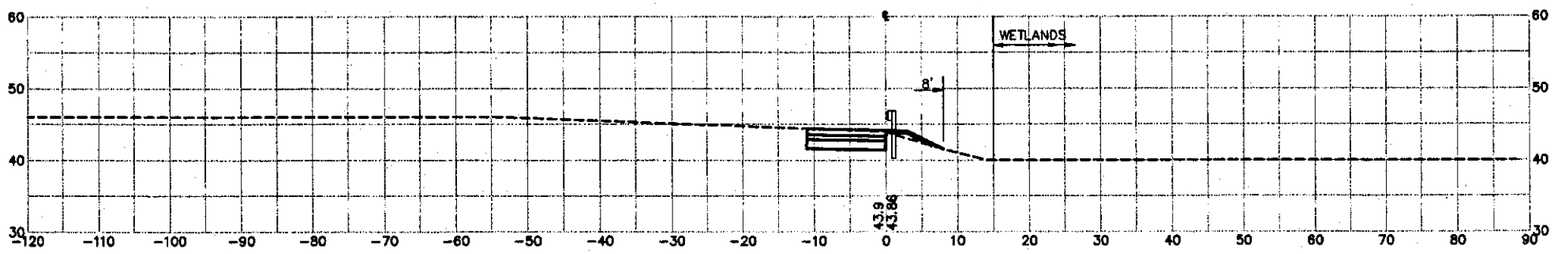
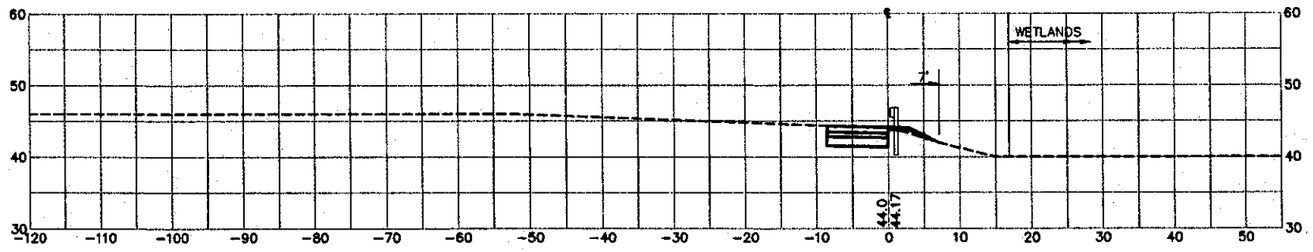
H:\H98008XW\002\YORK TOLL\TM-1.DWG 03/12/99 11:16

(METPK\BDR-01)



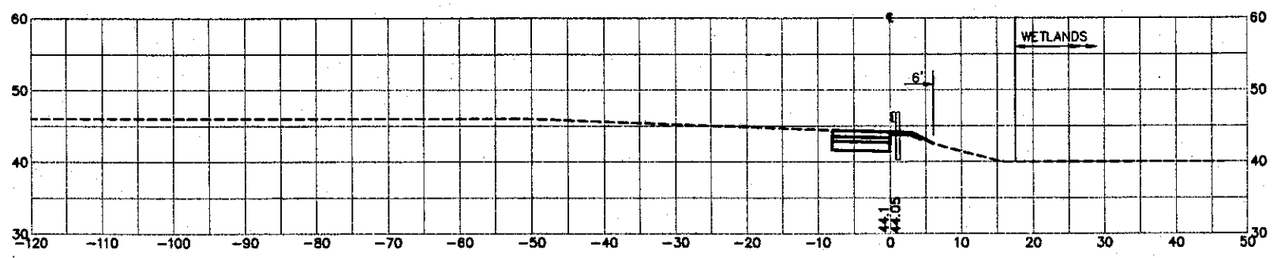
160+50

C = 49 CY
F = 7 CY



160+00

C = 41 CY
F = 5 CY



159+87.86

10 5 0 10 20 30 40
SCALE IN FEET

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.159+87.86 TO STA.160+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Contract 99.4

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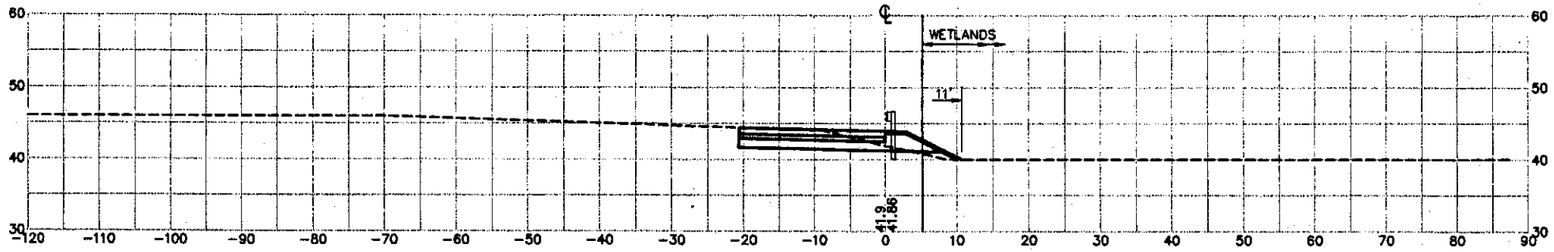
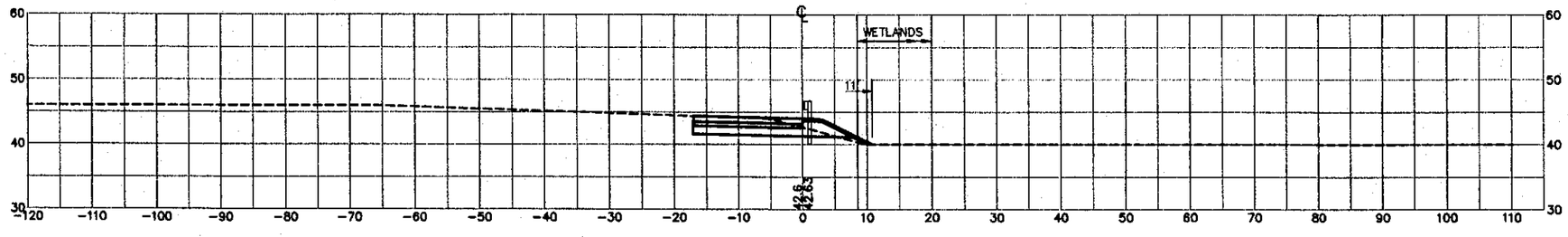


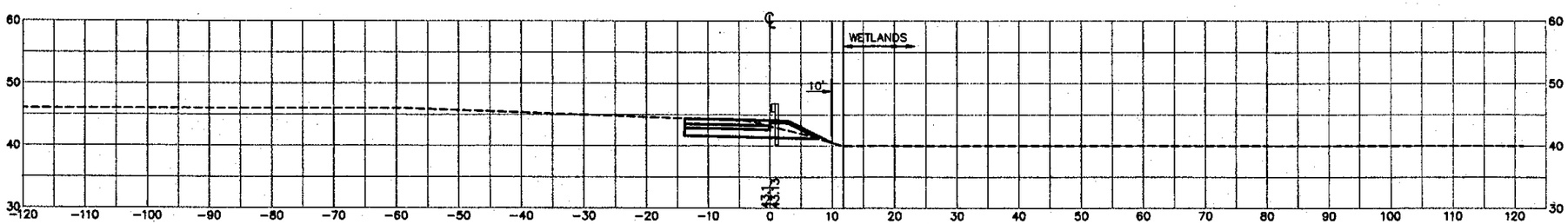
162+00

C = 87 CY
F = 5 CY



161+50

C = 82 CY
F = 2 CY



161+00

C = 67 CY
F = 5 CY

10 5 0 10 20 30 40
SCALE IN FEET

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.161+00 TO STA.162+00

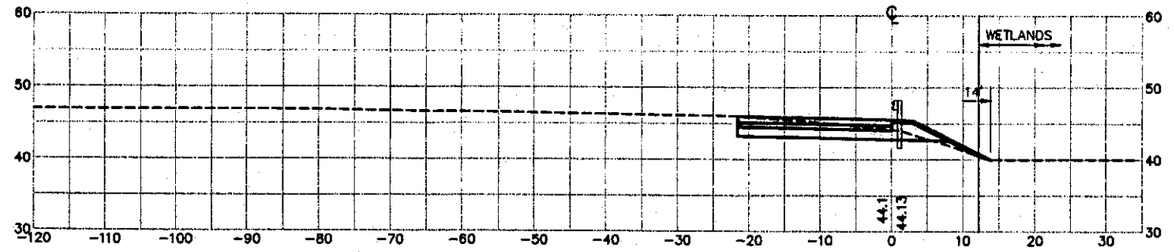
HNTB
ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date		By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99
				In Charge Of	RAL	

Contract 99.4

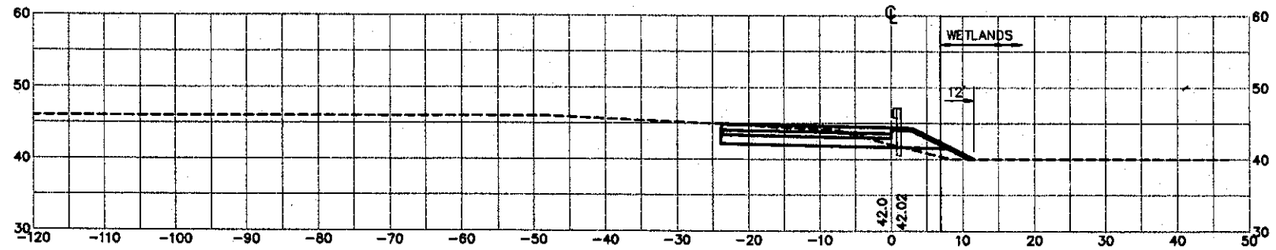
Sheet No. CS-NB 22 of 42

(METPK\BDR-01)



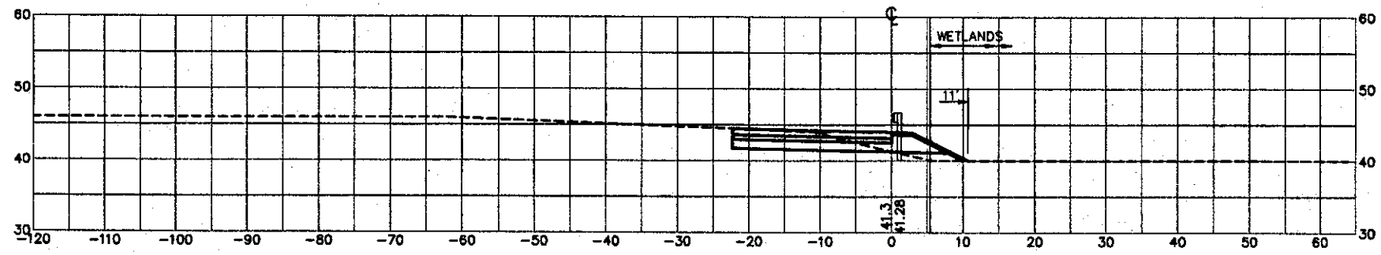
163+50

C = 93 CY
F = 11 CY



163+00

C = 88 CY
F = 15 CY



162+50

C = 85 CY
F = 9 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.162+50 TO STA.163+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. CS-NB
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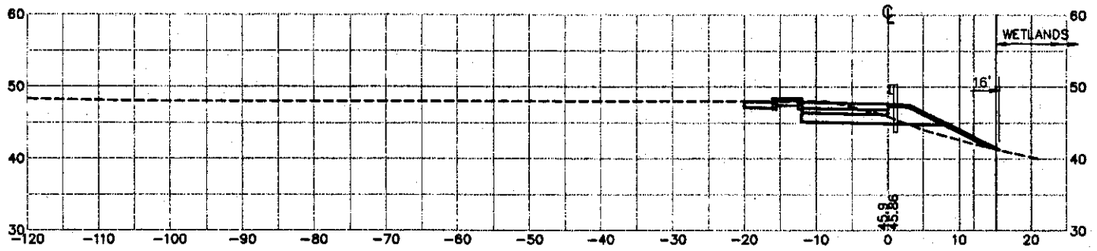
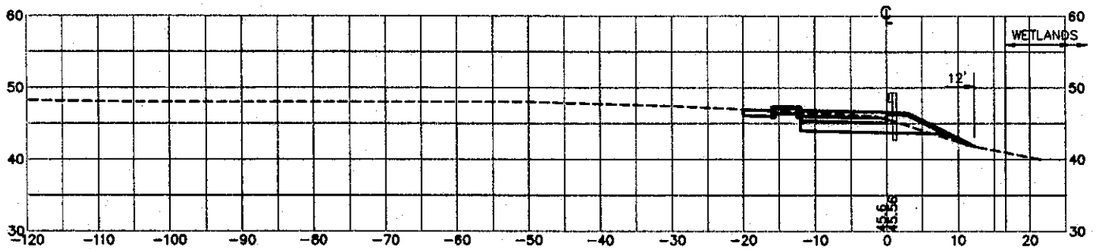
(METPK\BDR-01)



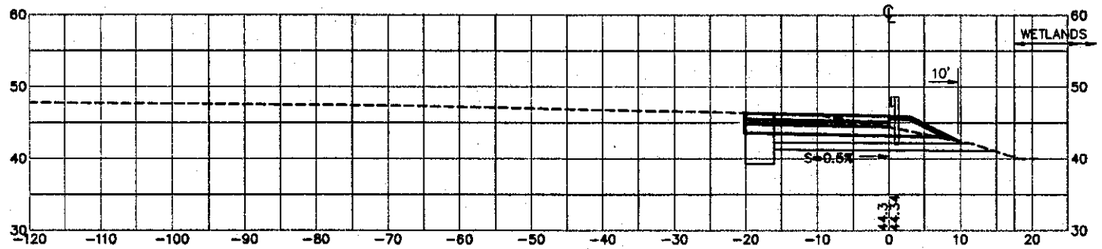
165+00

C = 71 CY
F = 10 CY



164+50

C = 83 CY
F = 2 CY



164+00

INSTALL CATCH BASIN TYPE B-1
STA. 164+04 18' LT.
RIM ELEV. 46.05
INV. ELEV. 41.05

29 L.F. 12" RCP
INV. ELEV. 40.90

C = 94 CY
F = 2 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date	In Charge Of: RAL	By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.164+00 TO STA.165+00

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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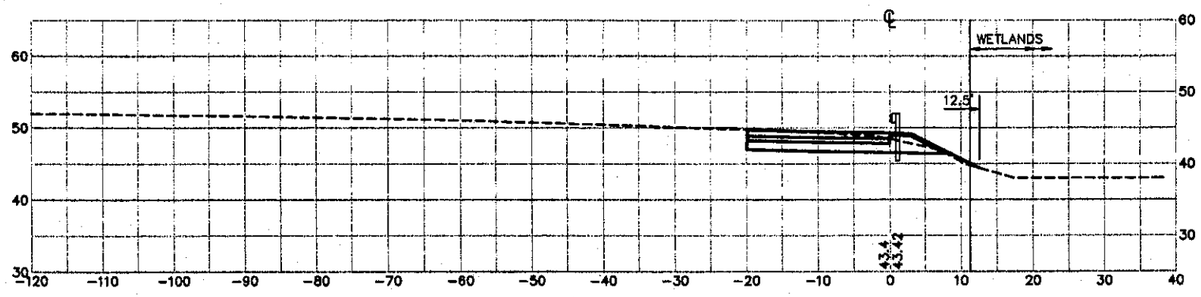
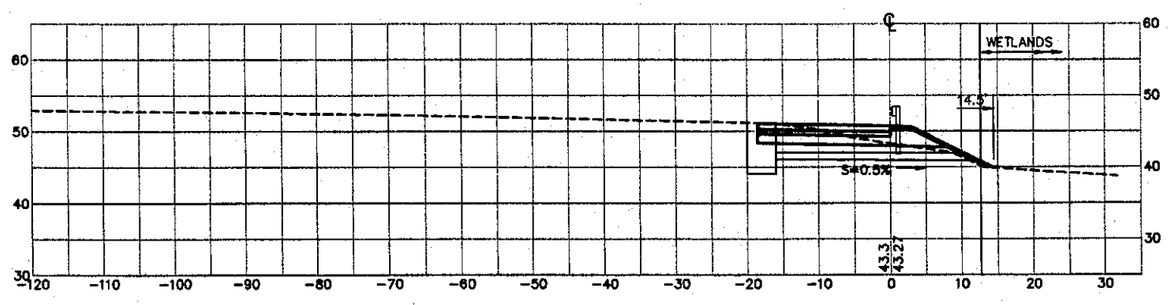
H:\H09009XW\002\YORK TOLL\NB XSECT.DWG 03/01/99 11:32

(METPIK\BDR-01)



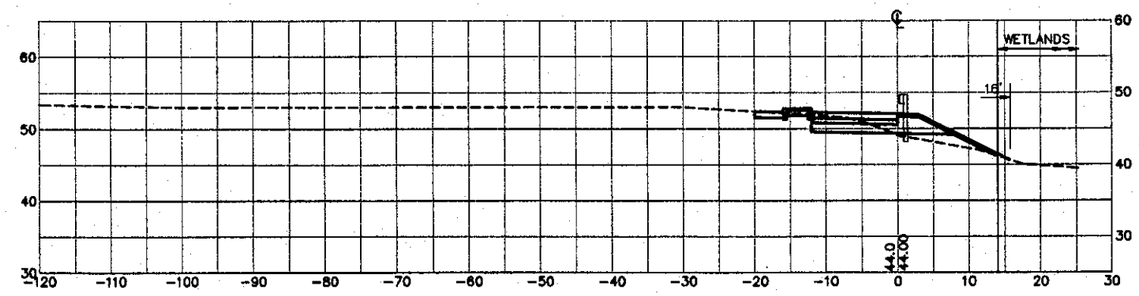
166+50

C = 84 CY
F = 3 CY



INSTALL CATCH BASIN TYPE B-1 166+00 28 L.F. 12" RCP
STA. 165+96 18' LT. INV. ELEV. 41.75
RIM ELEV. 45.90
INV. ELEV. 41.90

C = 54 CY
F = 13 CY



165+50

C = 59 CY
F = 19 CY

10 5 0 10 20 30 40
SCALE IN FEET

					By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99
No.	Revision	By	Date	In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.165+50 TO STA.166+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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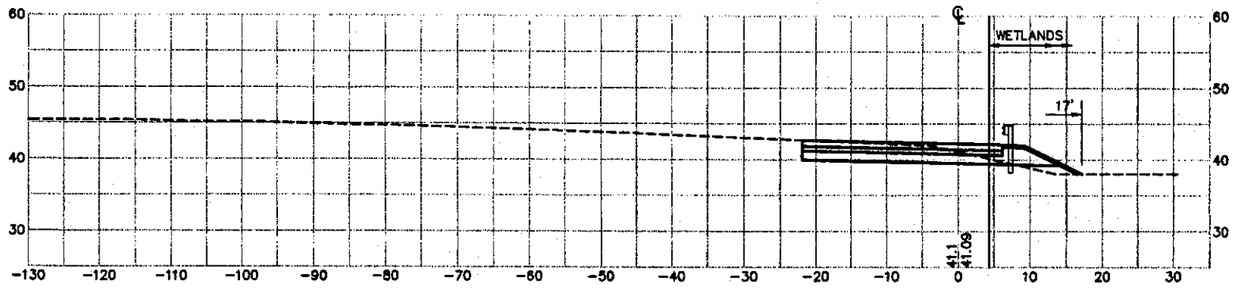
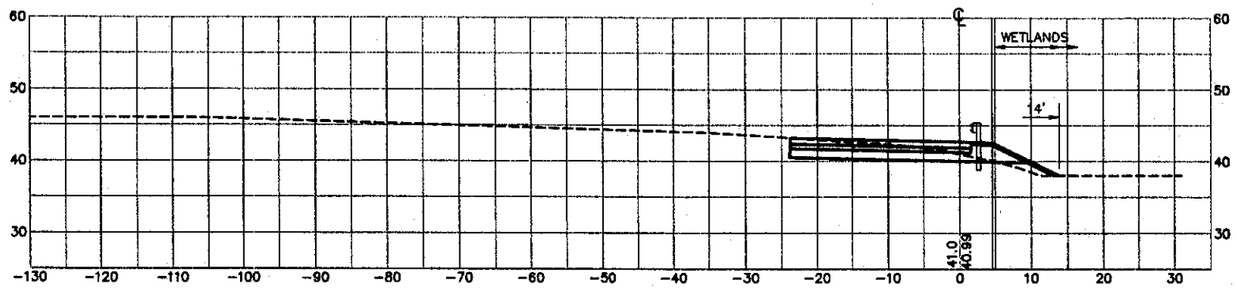
(METPK\BDR-01)



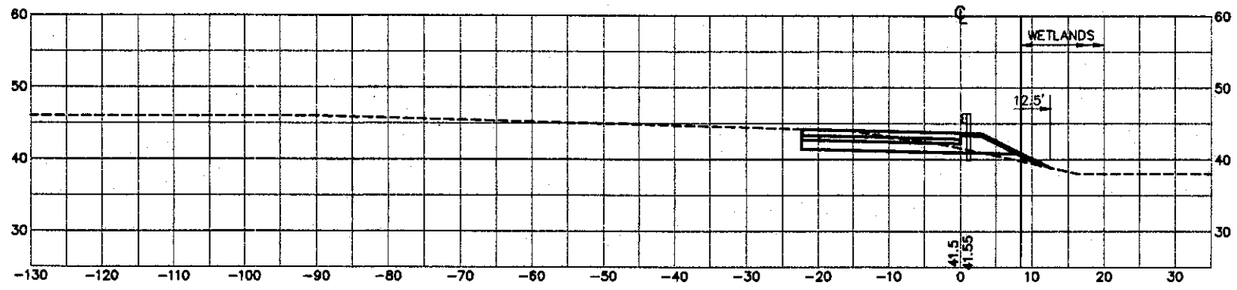
168+00

C = 106 CY
F = 10 CY



167+50

C = 92 CY
F = 13 CY



167+00

C = 97 CY
F = 9 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of: RAL		

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.167+00 TO STA.168+00

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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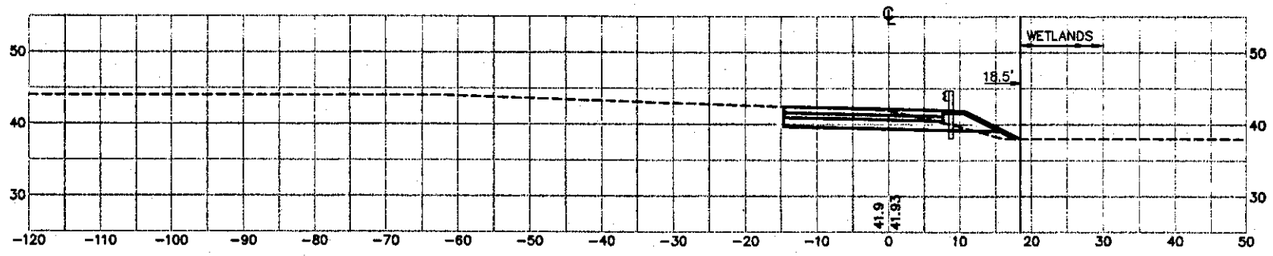
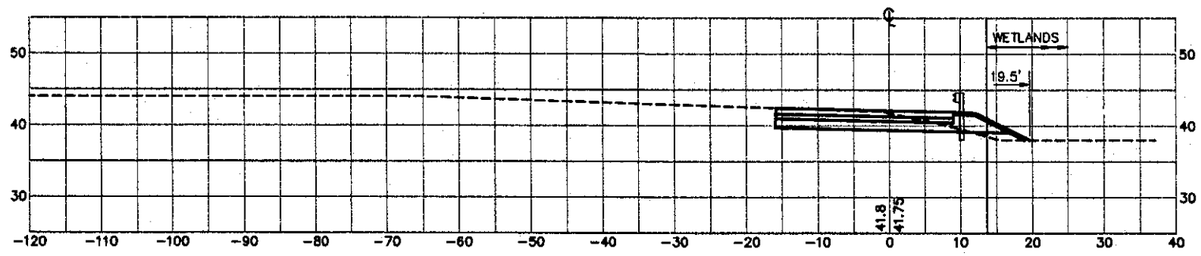
(METPK\BDR-01)



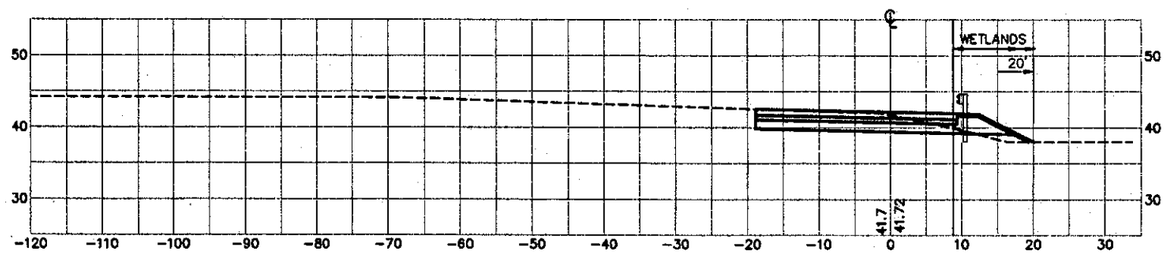
169+50

C = 103 CY
F = 7 CY



169+00

C = 112 CY
F = 9 CY



168+50

C = 116 CY
F = 10 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date	In Charge Of: RAL	By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.168+50 TO STA.169+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. CS-NB
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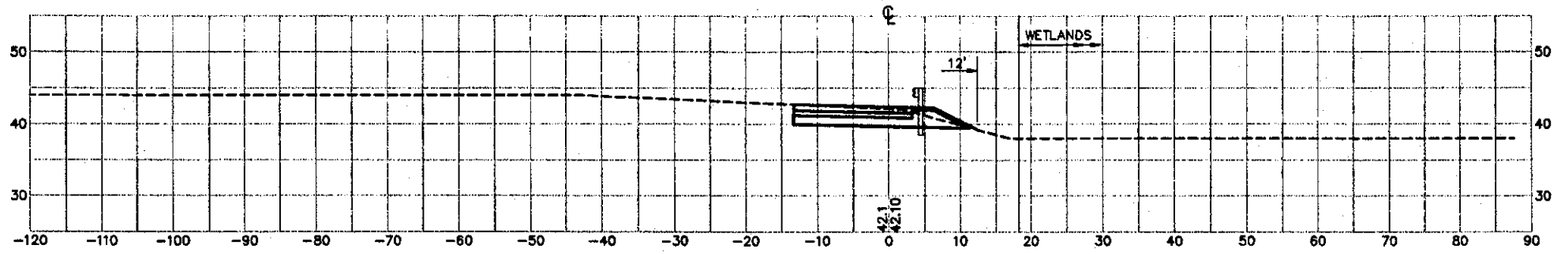
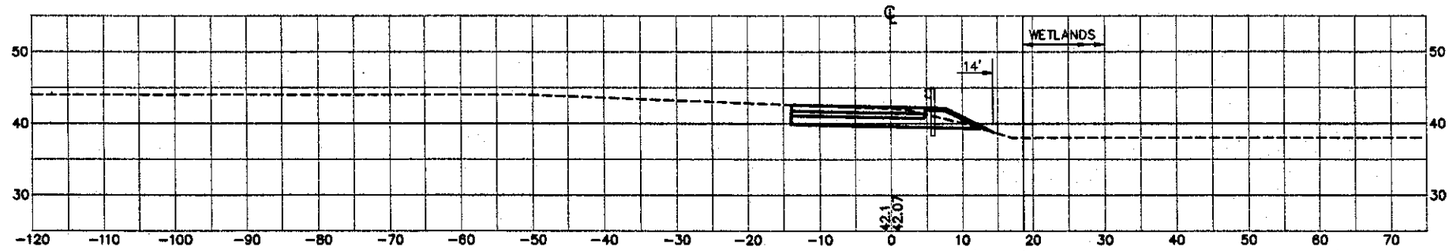
H:\H09009XW\002\YORK TOLL\NB XSECT.DWG 03/01/99 11:33

(METPK\BDR-01)



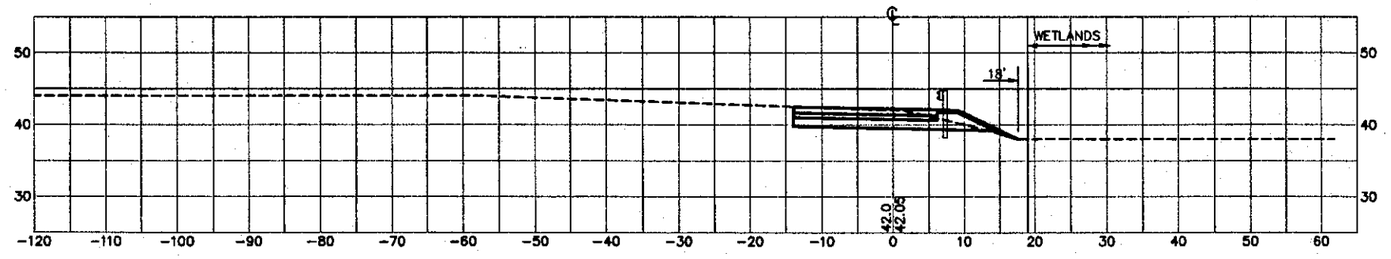
171+00

C = 87 CY
F = 0 CY



170+50

C = 99 CY
F = 1 CY



170+00

C = 103 CY
F = 3 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.170+00 TO STA.171+00

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. CS-NB
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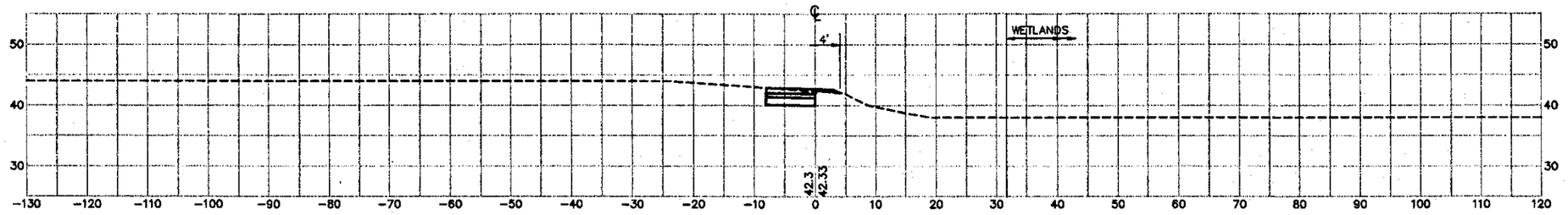
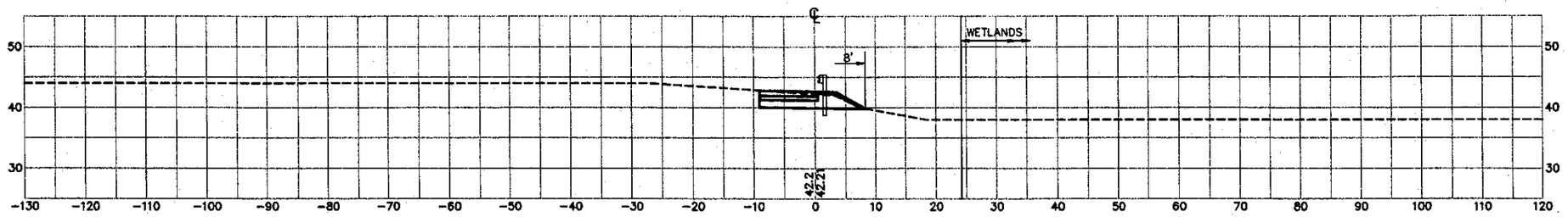
H:\H09009XW\002\YORK TOLL\NB XSECT.DWG 03/01/99 11:33

(METPK\BDR-01)



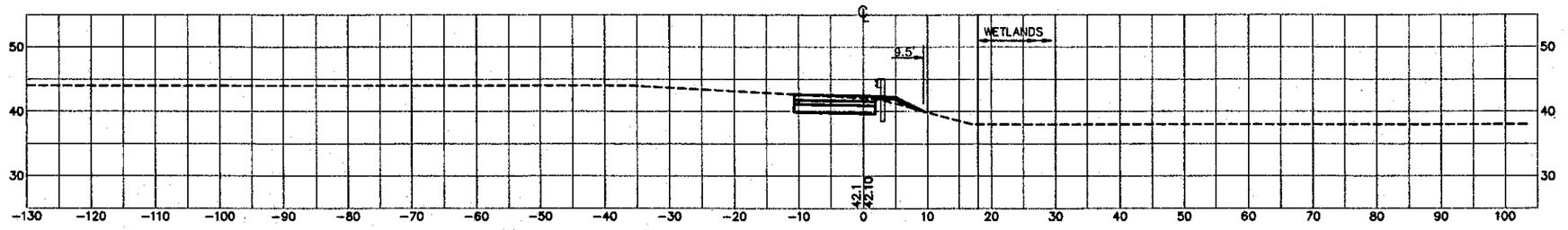
172+17.10

C = 43 CY
F = 5 CY



172+00

C = 54 CY
F = 8 CY



171+50

C = 69 CY
F = 5 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date		By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99
				In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

TransCapacity

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.171+50 TO STA.172+17.10

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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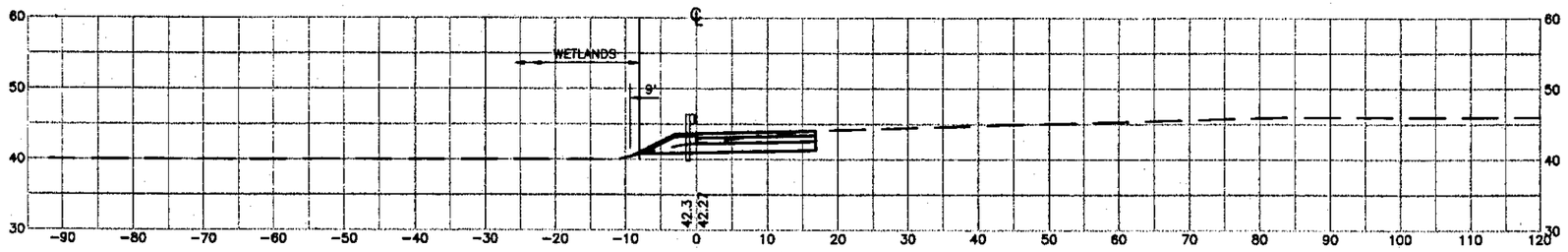
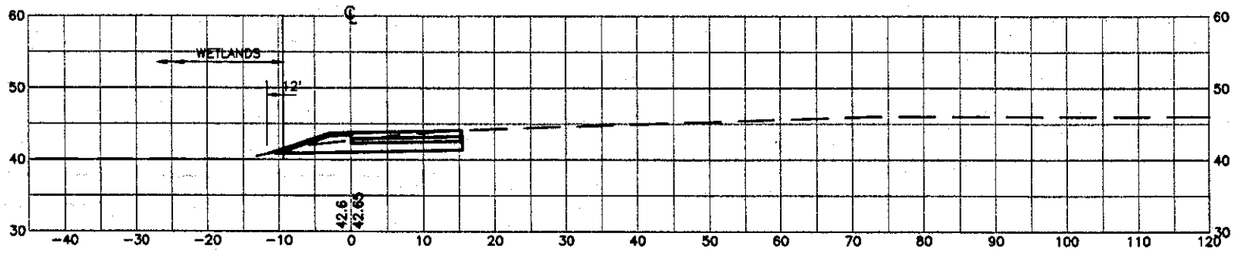
H:\H09009XW\002\YORK TOLL\NB XSECT.DWG 03/01/99 11:34

(METPK\BDR-01)

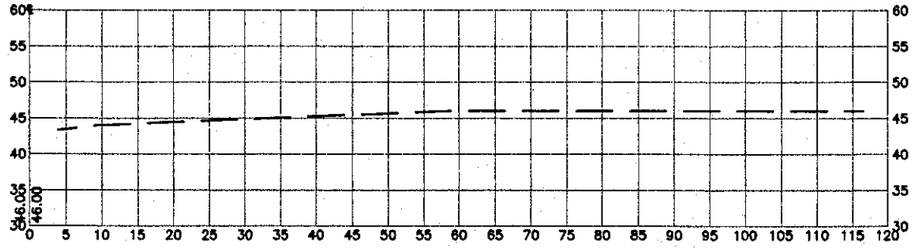


359+50

C = 81 CY
F = 0 CY



359+00



358+50

358+50

10 5 0 10 20 30 40
SCALE IN FEET

					By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99
No.	Revision	By	Date	In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.358+50 TO STA.359+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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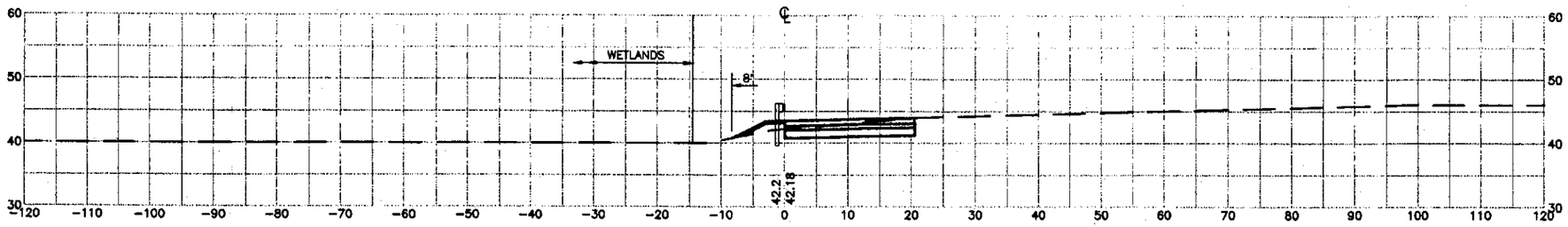
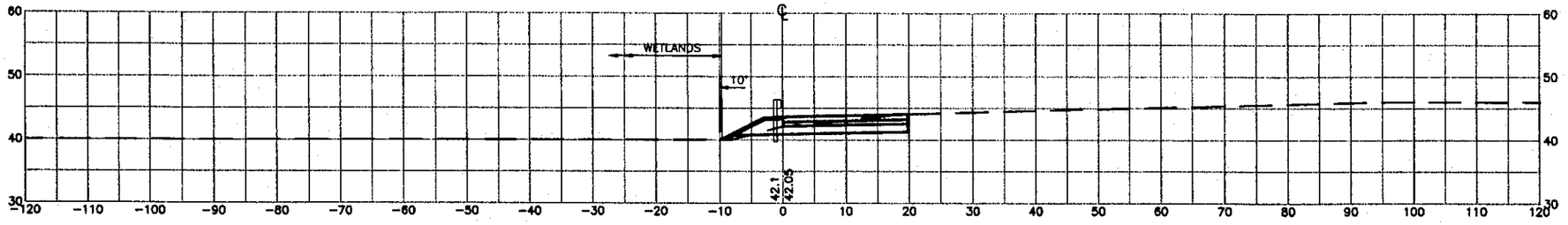
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

(METPK\BDR-01)



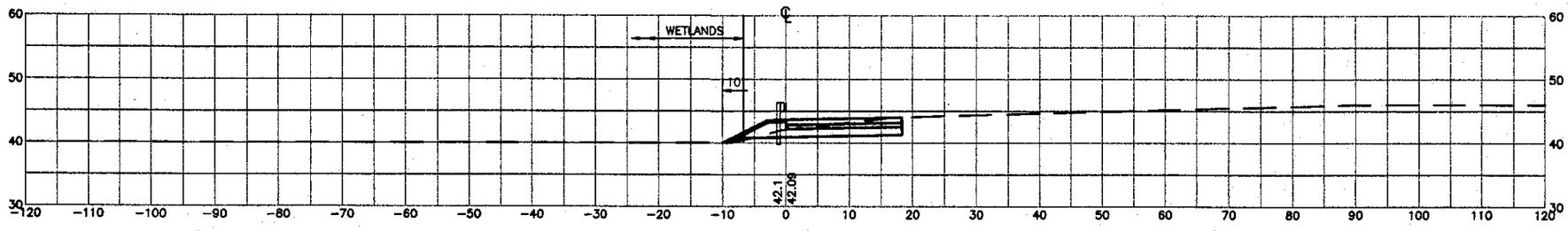
361+00

C = 80 CY
F = 7 CY



360+50

C = 78 CY
F = 3 CY



360+00

C = 76 CY
F = 2 CY

10 5 0 10 20 30 40
SCALE IN FEET

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.360+00 TO STA.361+00

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Contract 99.4

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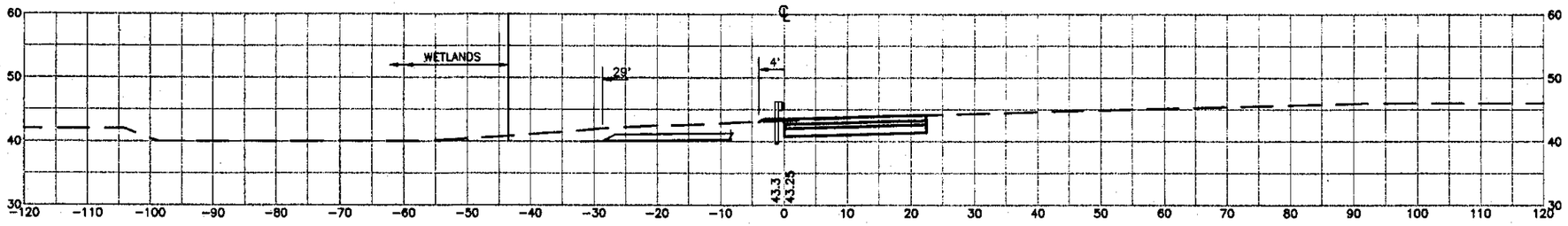
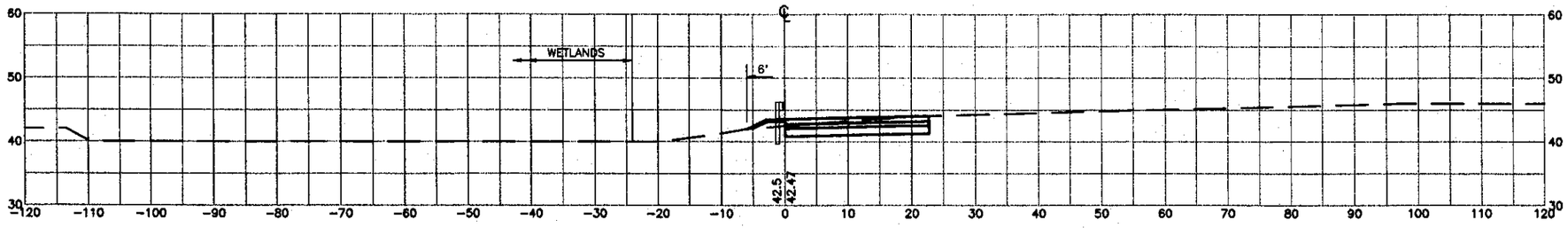
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

(METPK\BDR-01)



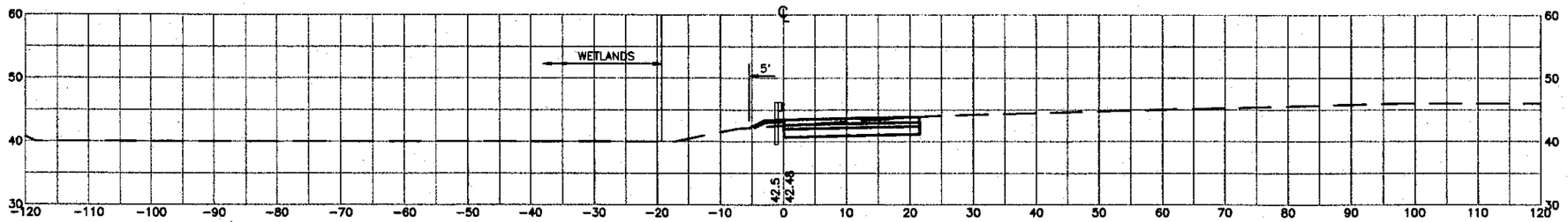
STA. 362+35 29' LT 362+50
130 L.F. 12" RCP
INV. ELEV. 40.25

C = 102 CY
F = 5 CY



362+00

C = 93 CY
F = 6 CY



361+50

C = 85 CY
F = 8 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date		By	Date
				Designed	WEF	1/99
				Drawn	WEF	1/99
				Checked	RWB	1/99
				In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.361+50 TO STA.362+50

HNTB
ARCHITECTS Engineers PLANNERS

Contract 99.4

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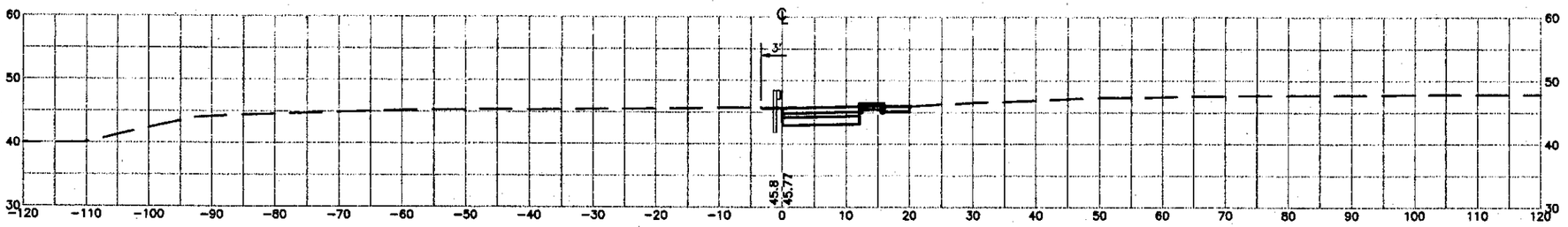
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

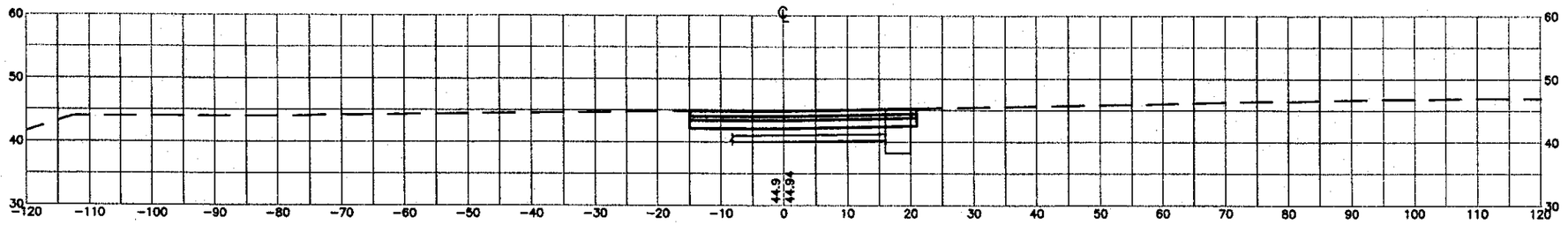
(METPK.BDR-01)



INSTALL CATCH BASIN TYPE B-1
STA. 363+56 18' RT.
RIM ELEV. 45.32
INV. ELEV. 40.24

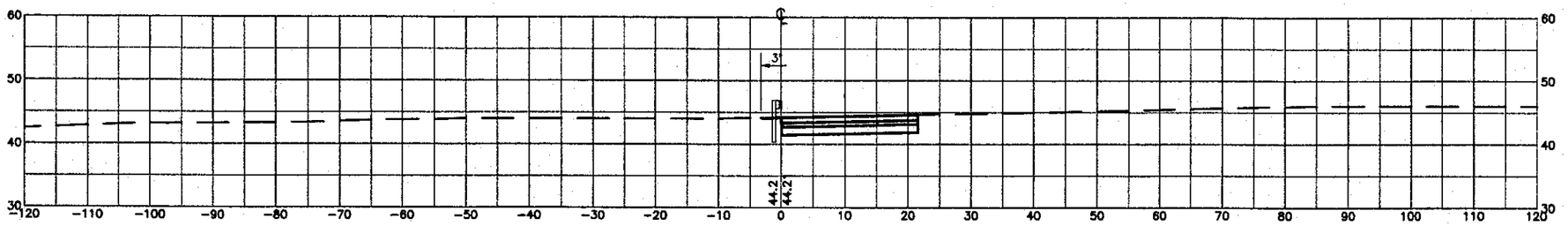
364+00

C = 132 CY
F = 0 CY



363+50

C = 150 CY
F = 1 CY



363+00

C = 110 CY
F = 2 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.363+00 TO STA.364+00

HNTB
ARCHITECTURE ENGINEERING PLANNING

Contract 99.4

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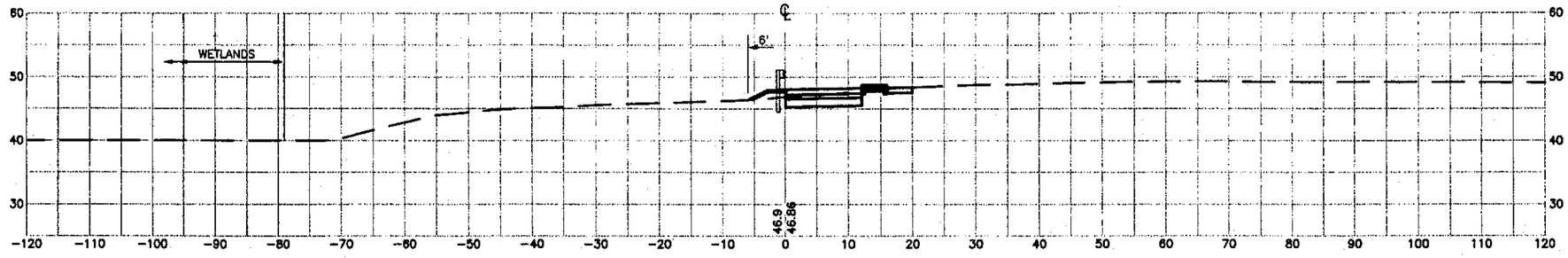
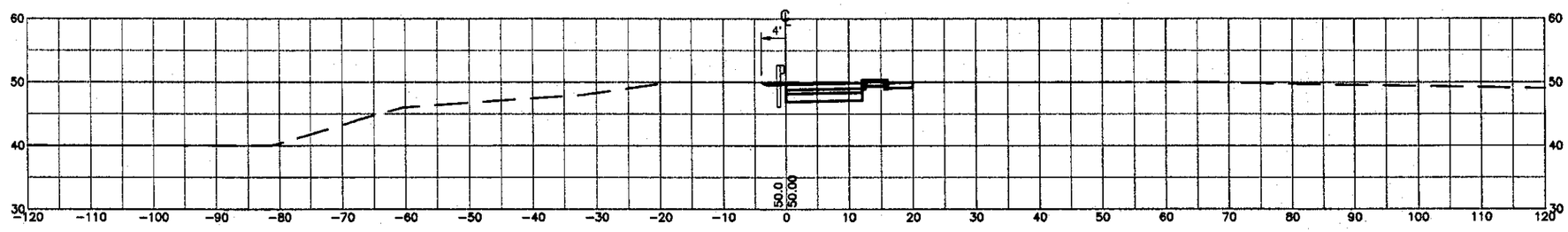


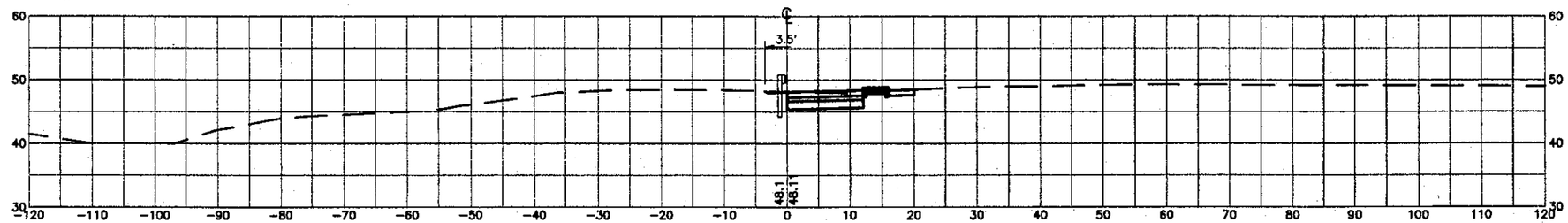
365+50

C = 65 CY
F = 4 CY



365+00

C = 73 CY
F = 0 CY



364+50

C = 71 CY
F = 0 CY

10 5 0 10 20 30 40
SCALE IN FEET

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.364+50 TO STA.365+50

HNTB

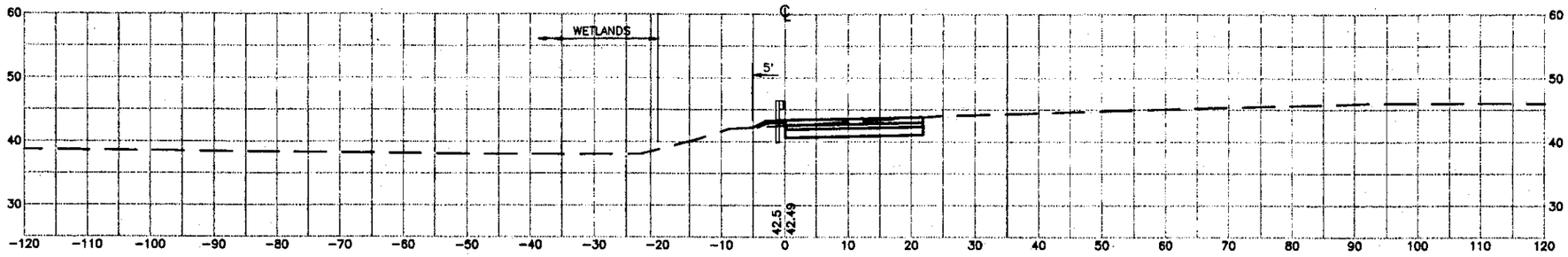
No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Contract 99.4

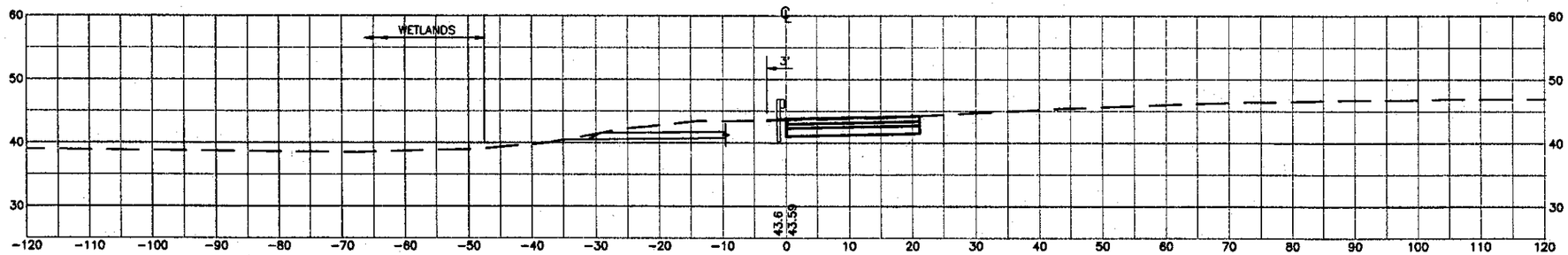
Sheet No. CS-SB 34 of 42

(METPK\BDR-01)



367+00

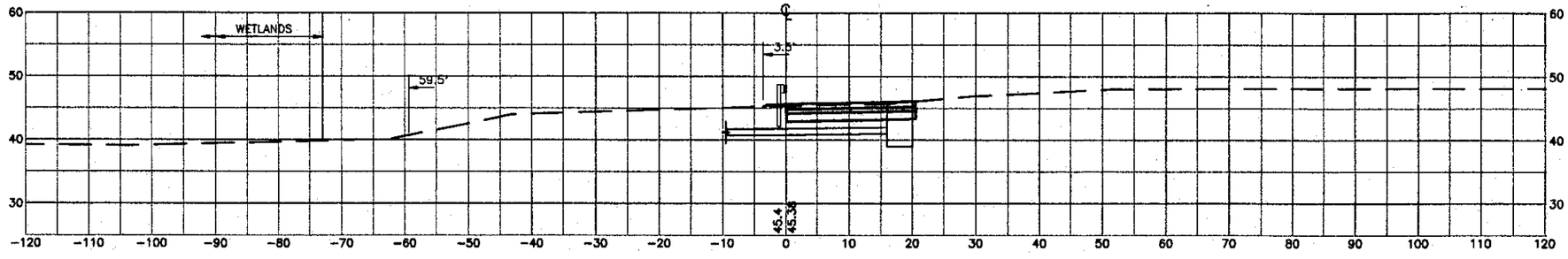
C = 99 CY
F = 4 CY



76' L.F. 12" RCP
INV. ELEV. 40.46
STA. 366+50 35' LT.

366+50

C = 100 CY
F = 2 CY



366+00 INSTALL CATCH BASIN TYPE B-1
STA. 365+96 18' RT.
RIM ELEV. 45.85
INV. ELEV. 40.85

C = 73 CY
F = 5 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.366+00 TO STA.367+00

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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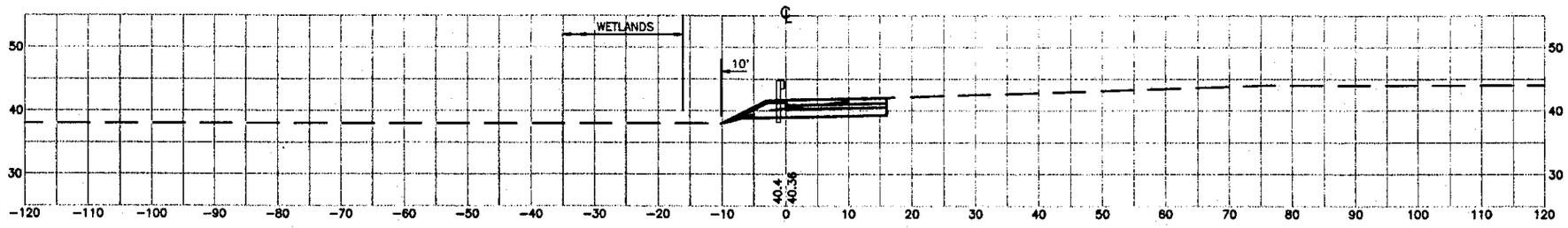
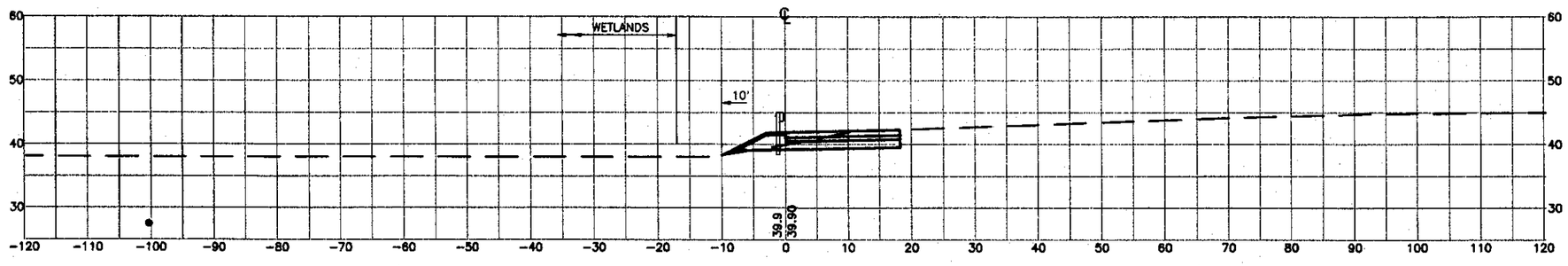
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

(METPK\BDR-01)



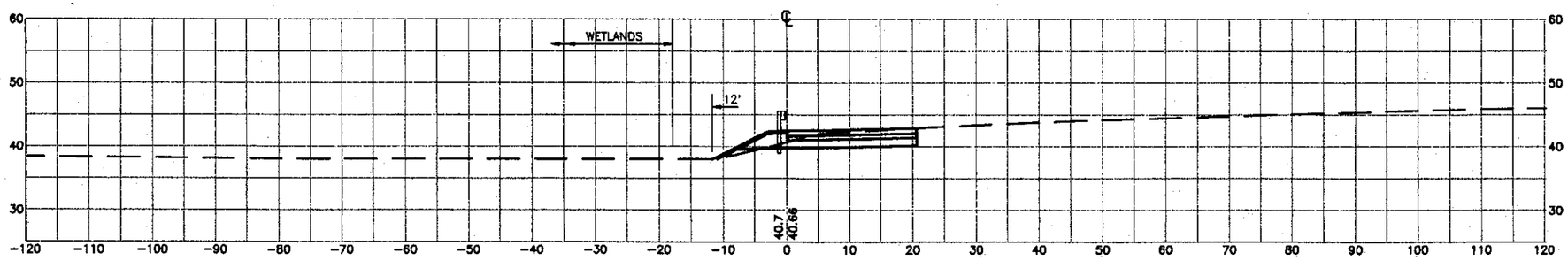
368+50

C = 78 CY
F = 1 CY



368+00

C = 84 CY
F = 4 CY



367+50

C = 92 CY
F = 7 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.367+50 TO STA.368+50

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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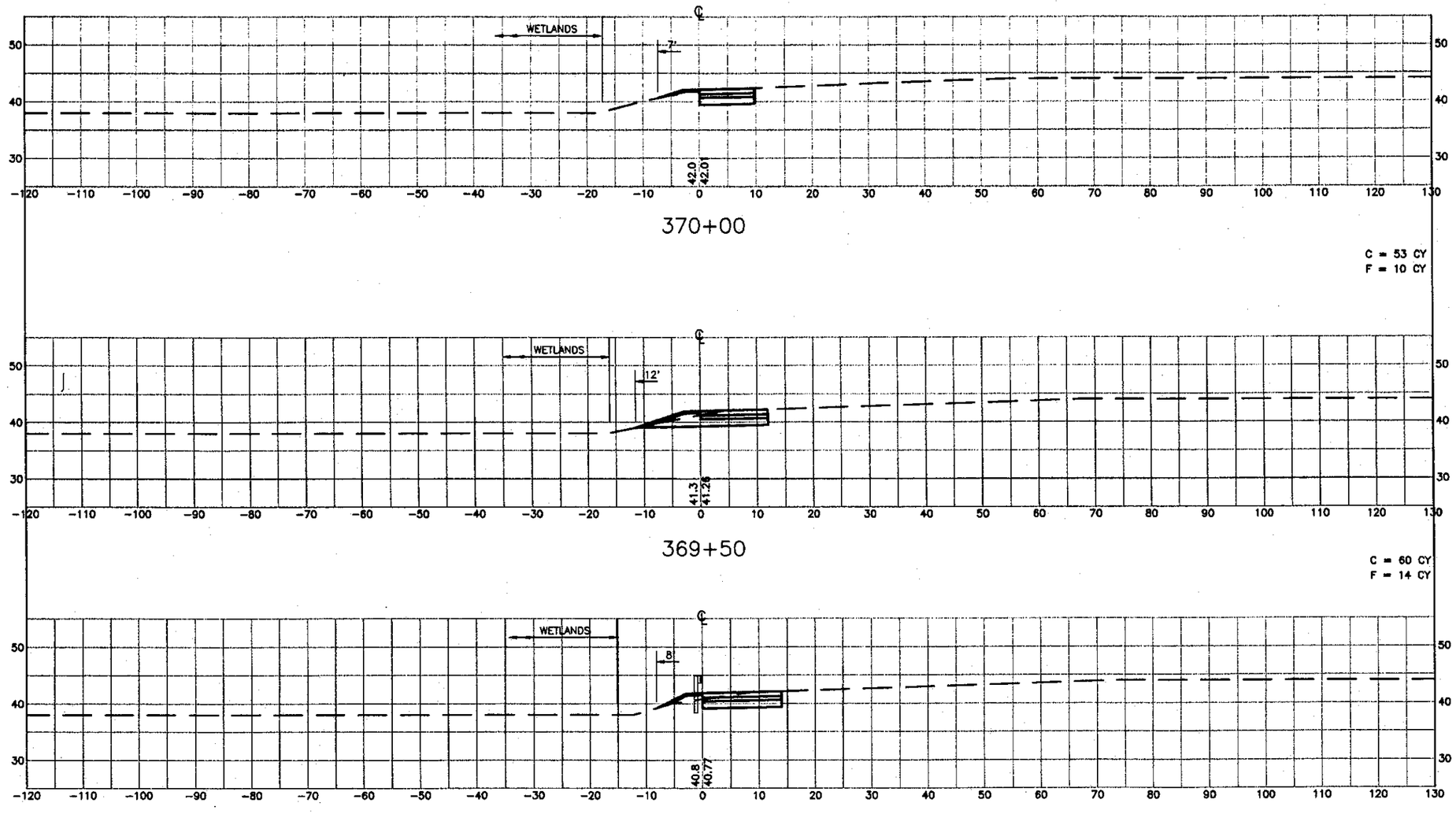
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

(METPK\BDR-01)



10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.369+00 TO STA.370+00

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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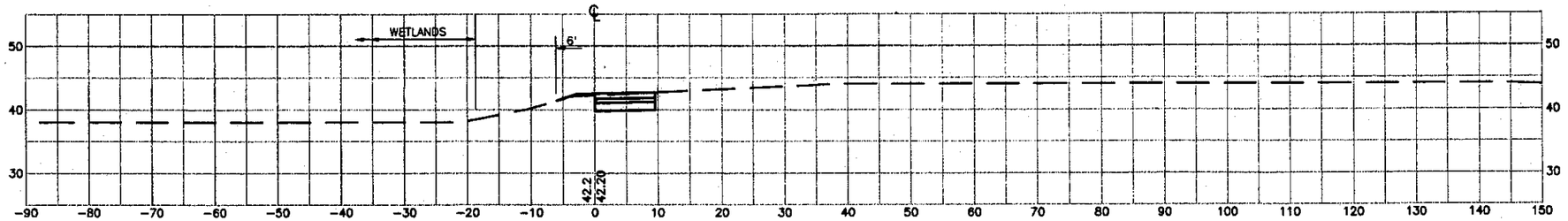
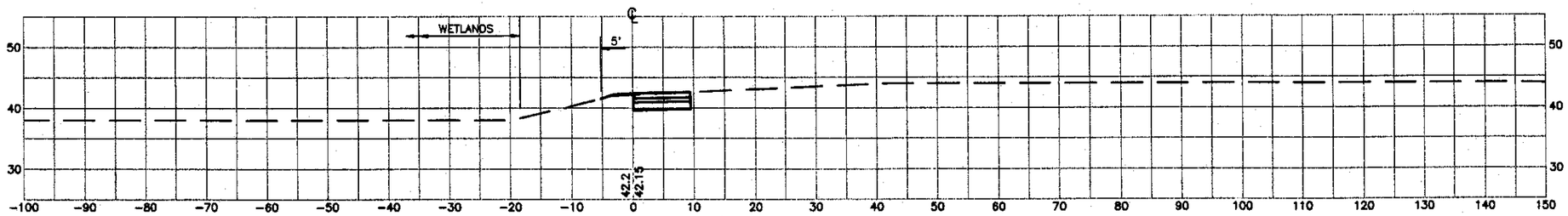
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

(METPK\BDR-01)



370+64.68

C = 46 CY
F = 2 CY



370+50

C = 47 CY
F = 4 CY

10 5 0 10 20 30 40
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	WEF	1/99
Drawn	WEF	1/99
Checked	RWB	1/99
In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

Trans Pass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CROSS SECTIONS
STA.370+50 TO STA. 370+64.68

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

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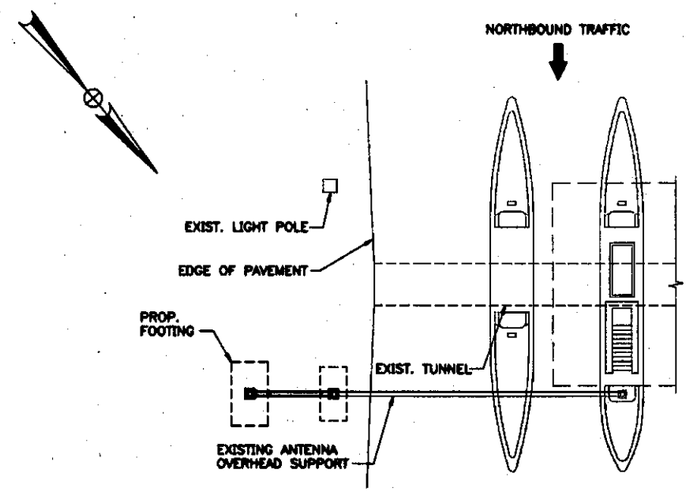
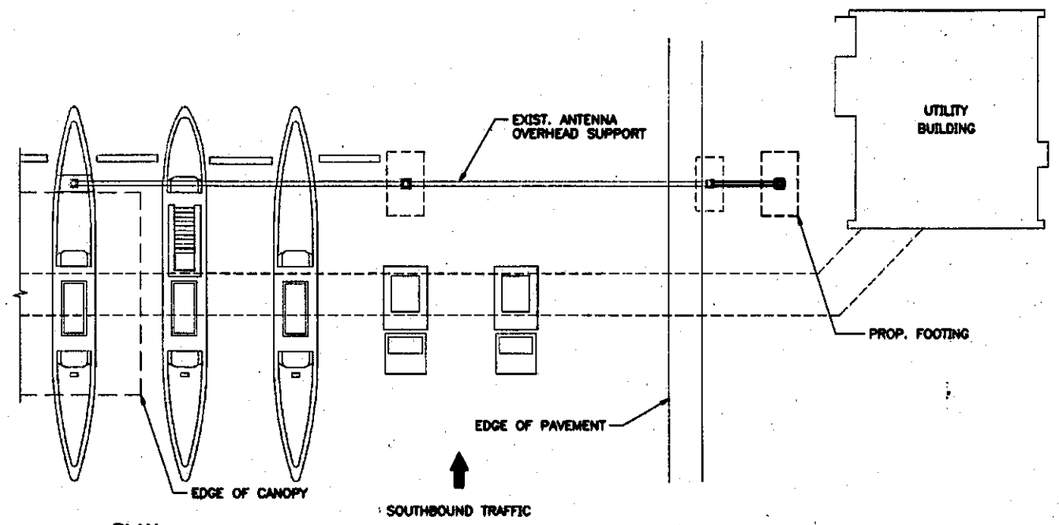
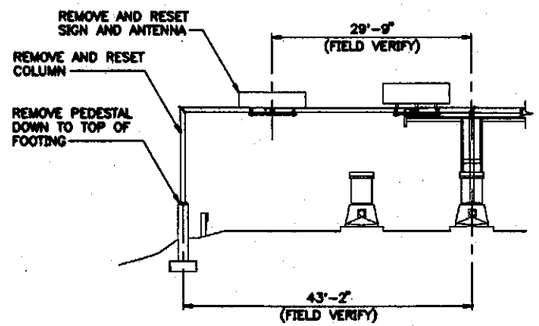
H:\H09009XW\002\YORK TOLL\SB XSECT.DWG 03/01/99 11:43

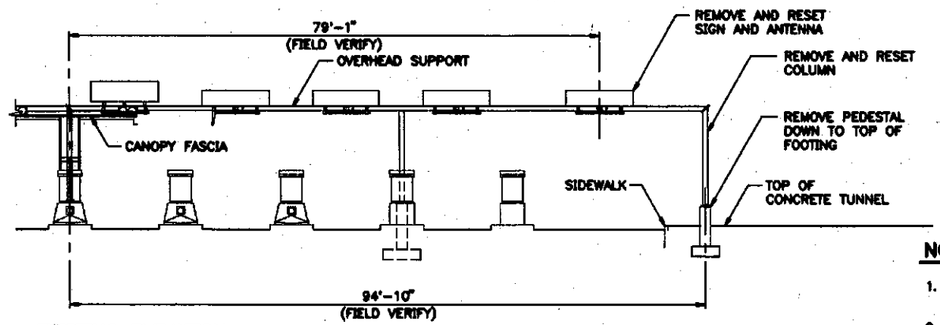
(METPK\BDR-01)





PLAN
3/32" = 1'-0"

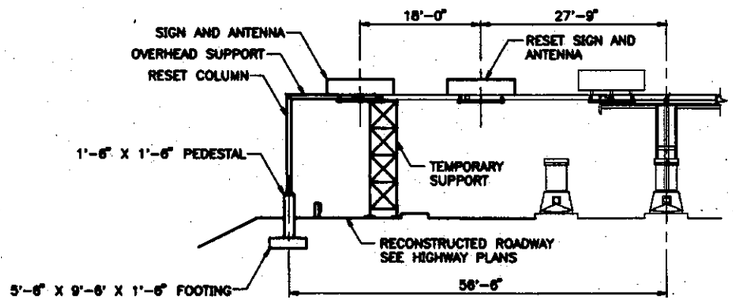


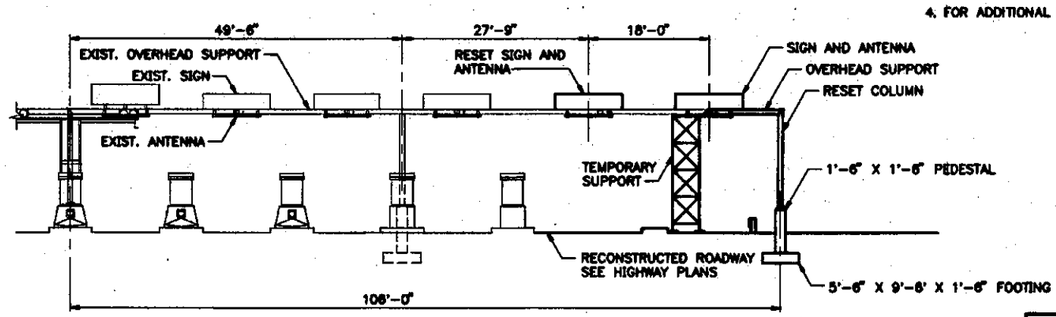


EXISTING ELEVATION
3/32" = 1'-0"

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED.
3. FOR ADDITIONAL DETAILS SEE SHEET S-2.
4. FOR ADDITIONAL REQUIREMENTS SEE SPECIAL PROVISIONS.





PROPOSED ELEVATION
3/32" = 1'-0"

No.	Revision	By	Date		By	Date
				Designed	JFW	2/99
				Drawn	SNR	2/99
				Checked	DWR	2/99
				In Charge Of	RAL	

Maine Turnpike Authority
Maine Turnpike

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
OVERHEAD SUPPORT

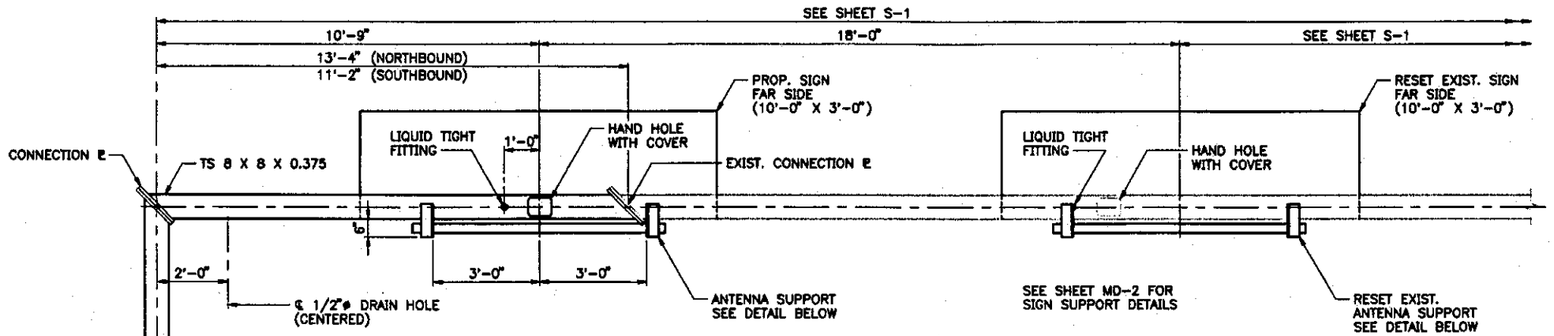
HNTB

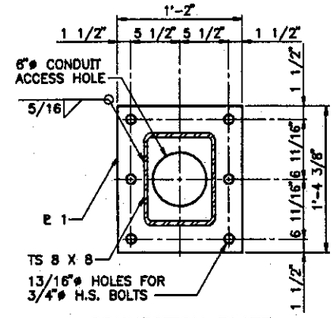
Contract 99.4

Sheet No. S-1
39 of 42

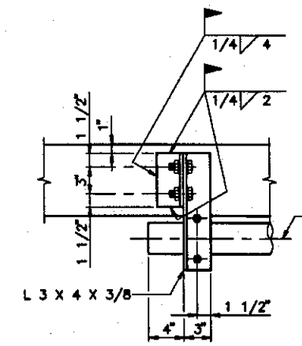
H:\H09009XW\002\YORK TOLL\OH-1.DWG 03/12/99 10:58

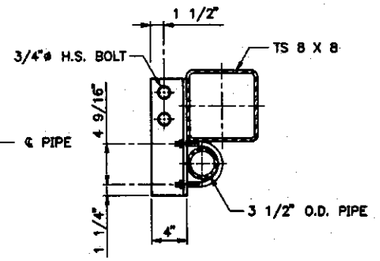
(METPK\BDR-01)



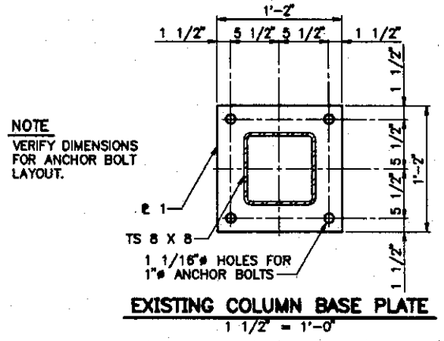


CONNECTION PLATE
1 1/2" = 1'-0"

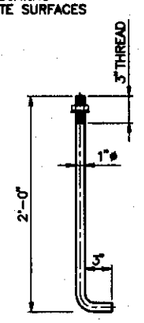




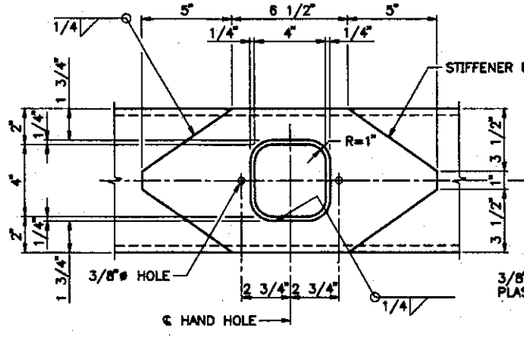
ANTENNA SUPPORT DETAIL
1/2" = 1'-0"



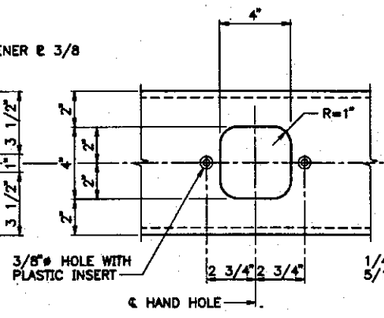
FRAME ELEVATION
1/2" = 1'-0"



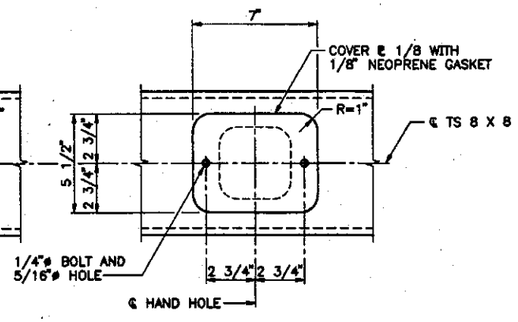
ANCHOR BOLT
1 1/2" = 1'-0"



STIFFENER PLATE



HOLE

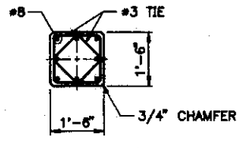


COVER

HAND HOLE DETAILS
3" = 1'-0"

NOTE
VERIFY DIMENSIONS FOR ANCHOR BOLT LAYOUT.

EXISTING COLUMN BASE PLATE
1 1/2" = 1'-0"



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

No.	Revision	By	Date	In Charge Of: RAL
				Designed JFW 2/99
				Drawn SHR 2/99
				Checked DWR 2/99

Maine Turnpike Authority
Maine Turnpike

Trans Compass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
OVERHEAD SUPPORT DETAILS

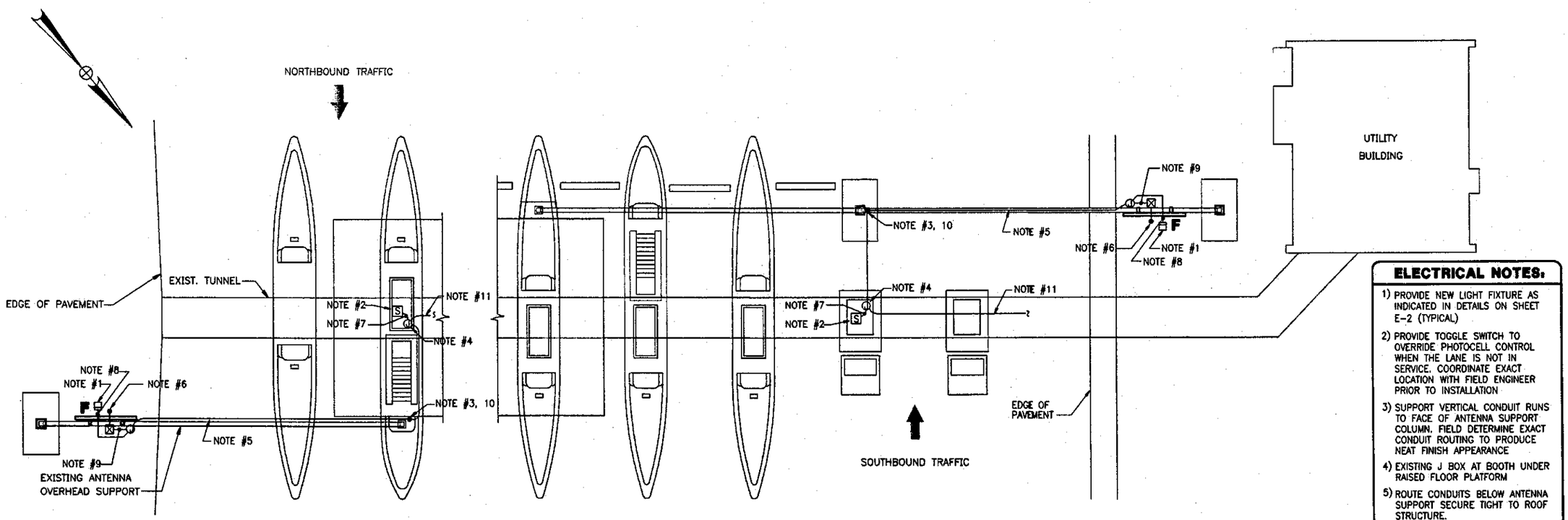
HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. S-2
40 of 42

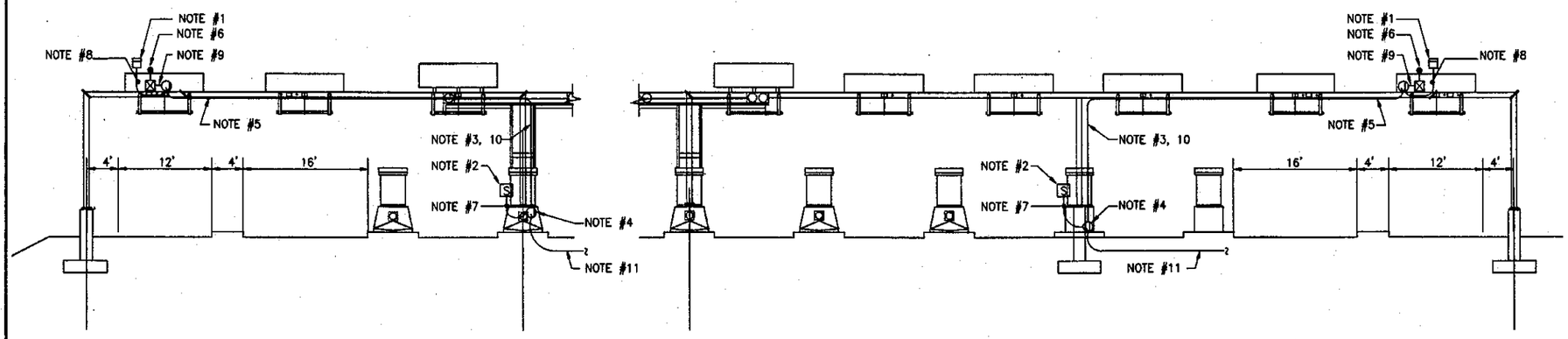
H:\H09009XW\002\YORK TOLL\OH-2.DWG 03/12/99 11:05

(METPK BDR-01)



NORTHBOUND PLAN
1/8"=1'-0"

SOUTHBOUND PLAN
1/8"=1'-0"



NORTHBOUND ELEVATION
1/8"=1'-0"

SOUTHBOUND ELEVATION
1/8"=1'-0"

ELECTRICAL NOTES:

1) PROVIDE NEW LIGHT FIXTURE AS INDICATED IN DETAILS ON SHEET E-2 (TYPICAL)
2) PROVIDE TOGGLE SWITCH TO OVERRIDE PHOTOCELL CONTROL WHEN THE LANE IS NOT IN SERVICE. COORDINATE EXACT LOCATION WITH FIELD ENGINEER PRIOR TO INSTALLATION
3) SUPPORT VERTICAL CONDUIT RUNS TO FACE OF ANTENNA SUPPORT COLUMN. FIELD DETERMINE EXACT CONDUIT ROUTING TO PRODUCE NEAT FINISH APPEARANCE
4) EXISTING J BOX AT BOOTH UNDER RAISED FLOOR PLATFORM
5) ROUTE CONDUITS BELOW ANTENNA SUPPORT SECURE TIGHT TO ROOF STRUCTURE.
6) PROVIDE PHOTOCELL BEHIND SIGN AS INDICATED ON SHEET E-2
7) 2#12 AND 1#12 GND IN 3/4" CONDUIT
8) 2#12 AND 1#12 GND IN 2" CONDUIT
9) 3#12 AND 1#12 GND IN 2" CONDUIT
10) 4#12 AND 1#12 GND IN 3/4" CONDUIT
11) RUN 2#12 + 1#12 GND CONDUCTORS IN EXISTING CONDUIT TO EXISTING PANEL IN UTILITY BUILDING. USE AVAILABLE 1 POLE 20 AMP SPARE IN EXISTING PANEL. FOR NEW LIGHTING

LEGEND

- F — NEW TOLL CANOPY SIGN AND LIGHTING FIXTURE ASSEMBLY
- NEW PHOTOCELL CONTROL
- [S] NEW ON / OFF CONTROL SWITCH
- (J) NEW JUNCTION BOX
- NEW CONDUIT

No.	Revision	By	Date

	By	Date
Designed	FM	3/99
Drawn	AP	3/99
Checked	VMA	3/99
In Charge Of: RAL		

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CANOPY SIGNS
ELECTRICAL PLAN

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.4

Sheet No. E-1
41 of 42

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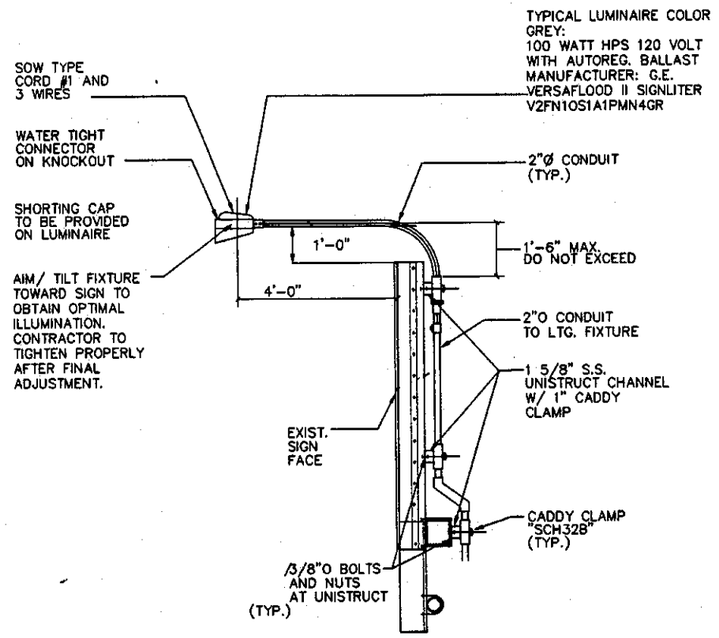
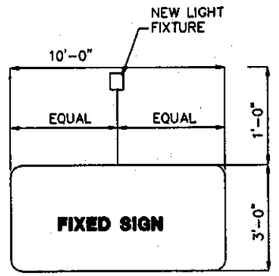
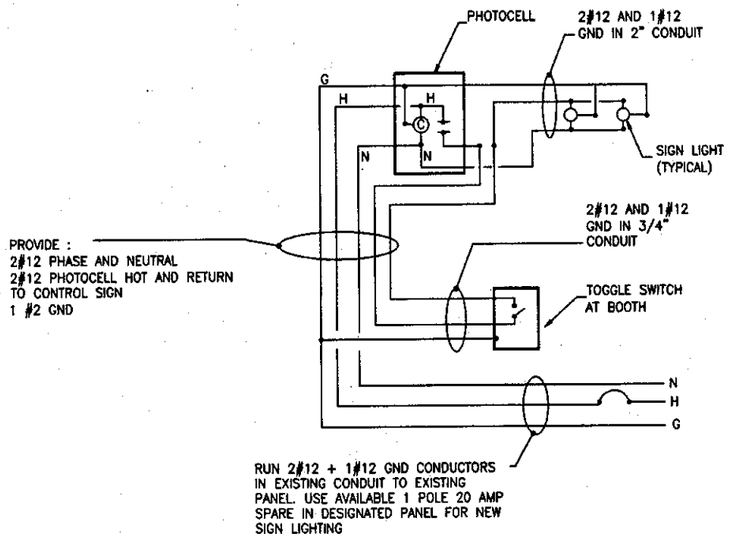
(METPK\BDR-01)



LIGHT FIXTURE DETAIL
N.T.S.



FIXTURE LOCATION FOR 10'-00' WIDE SIGN
N.T.S.



WIRING DIAGRAM
NOT TO SCALE

Maine Turnpike Authority
Maine Turnpike

Trans Expess

YORK TOLL PLAZA
TOLL PLAZA MODIFICATIONS
CANOPY SIGNS
ELECTRICAL DETAILS

HNTB
ARCHITECTS ENGINEERS PLANNERS

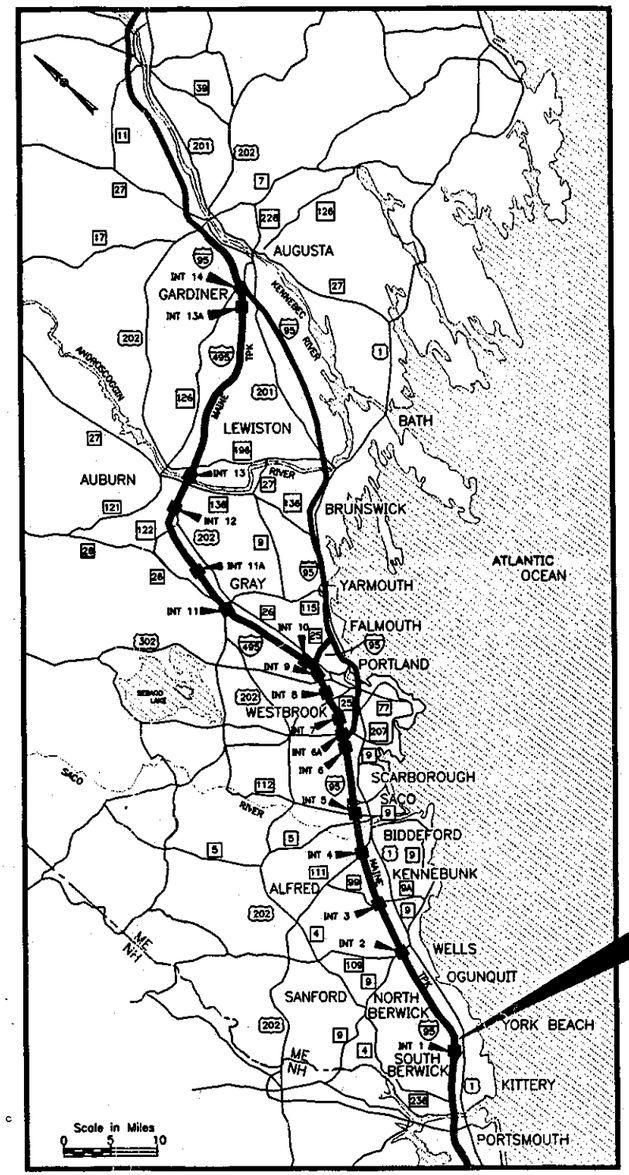
No.	Revision	By	Date

	By	Date
Designed	FM	3/99
Drawn	AP	3/99
Checked	VMA	3/99
In Charge Of	RAL	

Contract 99.4

Sheet No. E-2
42 of 42

H:\H09009XW\002\YORK TOLL\E-2.DWG 03/12/99 10:48



LOCATION MAP

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

COMMISSIONER _____ DATE _____

BUREAU DIRECTOR AND CHIEF ENGINEER _____ DATE _____

MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE

JULIAN R. COLES, CHAIRMAN
DEBORAH H. SHELTON, VICE CHAIR
PATRICK F. BUTLER, MEMBER
LUCIEN B. GOSSELIN, MEMBER
JOHN G. MELROSE, MEMBER EX-OFFICIO

PAUL E. VIOLETTE, EXECUTIVE DIRECTOR

CONTRACT 99.7
BUILDING RENOVATION AND EXPANSION
YORK TOLL PLAZA
MM 5.76

INDEX OF SHEETS

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
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2 OF 38	C-1	SITE PLAN
3 OF 38	C-2	MISCELLANEOUS DETAILS
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6 OF 38	D1.2	FIRST FLOOR DEMOLITION PLAN
7 OF 38	D2.1	DEMOLITION ELEVATIONS
8 OF 38	D4.1	DEMOLITION SECTIONS
9 OF 38	A1.1	BASEMENT FLOOR PLAN
10 OF 38	A1.2	FIRST FLOOR PLAN
11 OF 38	A1.3	ROOF PLAN
12 OF 38	A2.1	EXTERIOR ELEVATIONS
13 OF 38	A2.2	FXTERIOR ELEVATIONS
14 OF 38	A3.1	INTERIOR ELEVATIONS
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18 OF 38	A5.2	DETAILS
19 OF 38	A5.3	DETAILS
20 OF 38	A5.4	DETAILS
21 OF 38	A5.5	DETAILS
22 OF 38	A5.6	DETAILS
23 OF 38	A5.7	DETAILS
24 OF 38	A6.1	SCHEDULES
25 OF 38	S0	STRUCTRAL NOTES
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30 OF 38	S3	ROOF FRAMING PLAN
31 OF 38	S4	FRAMING DETAILS
32 OF 38	P1.1	BASEMENT PLUMBING PLAN
33 OF 38	P1.2	FIRST FLOOR PLUMBING PLAN
34 OF 38	M1.1	BASEMENT MECHANICAL PLAN
35 OF 38	M1.2	FIRST FLOOR MECHANICAL PLAN
36 OF 38	E1	ELECTRICAL DEMOLITION PLAN
37 OF 38	E2	BASEMENT ELECTRICAL PLAN AND NOTES
38 OF 38	E3	FIRST FLOOR ELECTRICAL PLAN

LASSEL ARCHITECTS

JSN ASSOCIATES, INC.

BENNETT ENGINEERING

HNTB
ARCHITECTS ENGINEERS PLANNERS

ROLAND A. LAVALLEE P.E., P.L.S.
VICE PRESIDENT
DIRECTOR OF OPERATIONS
DATE 8/4/99

APPROVED:
MAINE TURNPIKE AUTHORITY

_____ CHAIRMAN

_____ EXECUTIVE DIRECTOR

DATE _____

H:\H09009XW\005\004\99.7\TITLEYORK.DWG 07/30/99 09:13

PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN * WIDTH	SIZE OF SIGN * HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR ** BACK-GROUND	COLOR ** LEGEND BORDER	BORDER RADIUS	POST SIZE AND NUMBER REQUIRED	AREA IN SQUARE FEET
D9-6	24"	24"		SEE STANDARD HIGHWAY SIGNS			1	SEE STANDARD HIGHWAY SIGNS			U-CHANNEL POST 1	4.00 (4.00)

* DIMENSION IN INCHES. SIGN TEXT SHALL CONFORM TO M.U.T.C.D.

** THE LEGEND BORDER AND BACKGROUND SHALL BE HIGH INTENSITY REFLECTIVE SHEETING.

GENERAL NOTES

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-800-DIG-SAFE PRIOR TO THE START OF THE WORK.
2. THE UTILITIES ON THIS CONTRACT ARE:
   CENTRAL MAINE POWER COMPANY
   BELL ATLANTIC
3. REQUIRED EROSION AND SEDIMENTATION CONTROL SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSE ONLY. ACTUAL TYPE AND LOCATION OF DEVICES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
4. WASTE MATERIALS SHALL BE DISPOSED OF, OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
5. CONTRACTOR SHALL PLACE 4" LOAM ON ALL DISTURBED SLOPE AREA. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE ENGINEER.
6. SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL GRASS AREAS.
7. MULCH SHALL BE APPLIED IN AREAS SEEDED BY SEEDING METHOD NO. 1.
8. 4" PAINTED PAVEMENT MARKINGS WILL BE INSTALLED BY THE CONTRACTOR. (SEE SHEET C-3.)

VERTICAL CURB TYPE 1

FROM STA.	OFFSET	TO STA.	OFFSET	LF
STA. 9+91.0	0'	STA. 9+91.0	18' LT.	4

TERMINAL CURB TYPE 2

FROM STA.	OFFSET	TO STA.	OFFSET		LF
STA. 9+68.5	0'	STA. 9+75.5	0'	TRANSITION	7
STA. 9+79.5	0'	STA. 9+86.5	0'	TRANSITION	7

CURB TYPE 3 MOLD 1

FROM STA.	OFFSET	TO STA.	OFFSET		LF
STA. 9+86.5	0'	STA. 9+91.0	0'		5
STA. 9+91.0	0' LT.	STA. 9+91.0	14' LT.		14
STA. 9+91.0	18' LT.	STA. 10+04.0	30' LT.	13' RADIUS	20
STA. 10+04.0	30' LT.	STA. 10+06.0	30' LT.		2
STA. 10+00.0	41' LT.	STA. 10+00.0	57' LT.		16

REINFORCED CONCRETE SIDEWALK

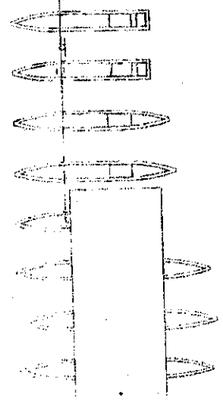
FROM STA.	OFFSET	TO STA.	OFFSET		SY
STA. 9+75.5	12' RT.	STA. 10+34.0	12' RT.	4'	26
STA. 9+77.5	0'	STA. 9+77.5	8' RT.	RAMP	10
STA. 10+67.0	9' RT.	STA. 10+67.0	9' LT.	5'	10
STA. 10+60.0	9' LT.	STA. 10+67.0	9' LT.	6'	5
STA. 9+91.0	14' LT.	STA. 9+98.0	14' LT.	4'	3

30" TEMPORARY SILT FENCE

FROM STA.	OFFSET	TO STA.	OFFSET	LF
STA. 9+75.0	78' LT.	STA. 10+35.0	65' LT.	60
STA. 10+35.0	65' LT.	STA. 10+40.0	55' LT.	10
STA. 10+40.0	55' LT.	STA. 10+70.0	45' LT.	35
STA. 10+70.0	37' LT.	STA. 11+00.0	35' LT.	30
STA. 11+00.0	35' LT.	STA. 11+00.0	25' LT.	10

REGULATORY WARNING CONFIRMATION AND ROUTE ASSEMBLY SIGN

FROM STA.	OFFSET	I.D. NO.	SF
STA. 9+86.0	4' RT.	D9-6	4



LEGEND

STAGING AREA

4" HOT BITUMINOUS PAVEMENT GRADE "D" SIDEWALKS, DRIVES AND INCIDENTALS. (AT COMPLETION OF CONSTRUCTION.)

6 INCH UNDERDRAIN

FROM STA.	OFFSET	TO STA.	OFFSET	LF
STA. 10+03.5	1.5' LT.	STA. 10+03.5	87.5' LT.	86

GUARDRAIL DELINEATOR POST

FROM STA.	OFFSET	EA
STA. 10+03.5	87.5' LT.	1

25 0 25 50 75 100
SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	RWB	7/99
Drawn	JBC	7/99
Checked	GWW	7/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

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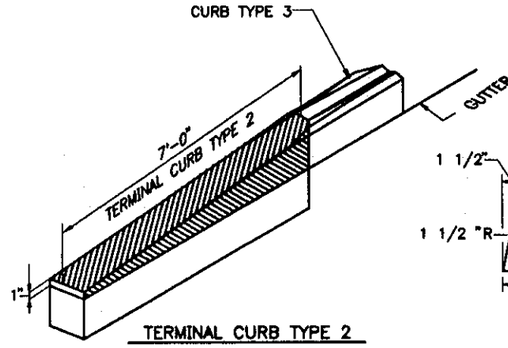
YORK TOLL PLAZA
BUILDING RENOVATION AND EXPANSION
SITE PLAN

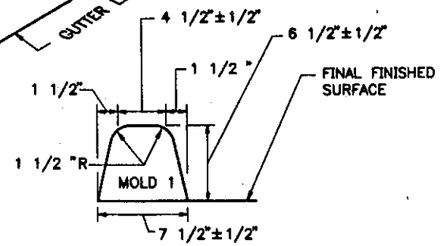
HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.7

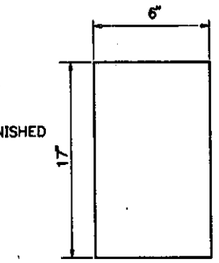
Sheet No. C-1
2 of 38



TERMINAL CURB TYPE 2

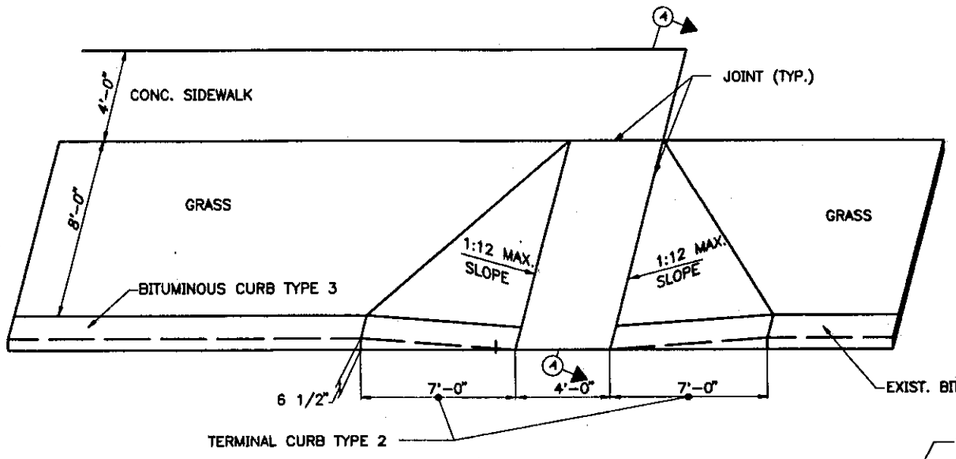


CURB TYPE 3

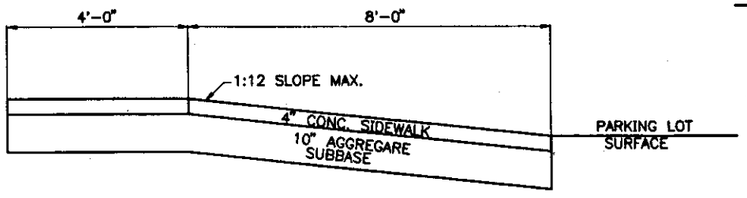


VERTICAL CURB TYPE 1

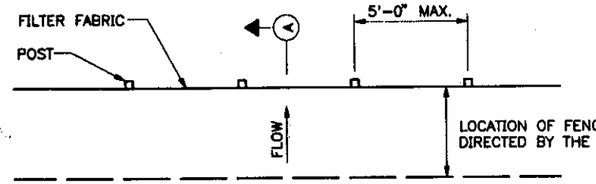
CURBING
N.T.S.



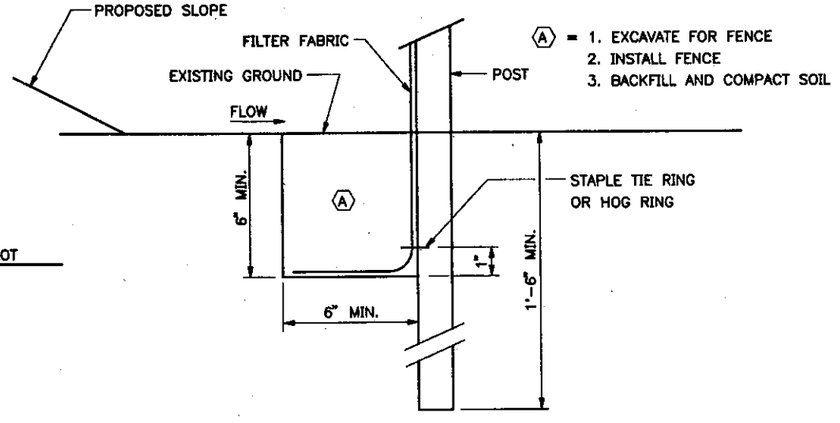
CONC. WHEELCHAIR RAMP
N.T.S.



SECTION A–A
N.T.S.



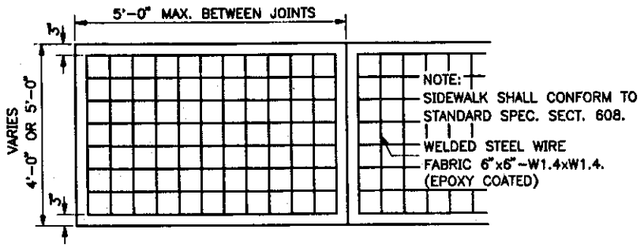
PLAN VIEW
N.T.S.



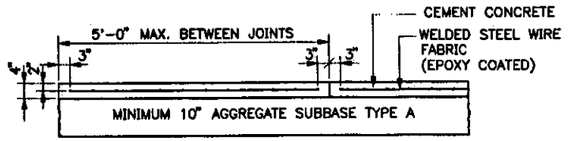
SECTION A–A
N.T.S.

SILT FENCE

30'-0" MAX. BETWEEN EXPANSION JOINTS



PLAN VIEW
N.T.S.



SECTION
N.T.S.

REINFORCED CONCRETE SIDEWALK

No.	Revision	By	Date		By	Date
				Designed	RWB	6/99
				Drawn	WEF	6/99
				Checked	GWW	7/99
				In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

Transpass

YORK TOLL PLAZA
BUILDING RENOVATION AND EXPANSION
MISCELLANEOUS DETAILS

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.7

Sheet No. C–2
3 of 38

INSTALL 86' X 6" UNDERDRAIN
(SEE SHEET C-1 FOR OUTLET)
(INLET CONNECTS TO ROOF DRAIN)

CONCRETE CONDENSER PAD
(SEE SHEET M1. 1 FOR DETAILS)

N

LEGEND

4" LOAM AND SEED AND SEEDING METHOD NO. 1

PROP. CURB TYPE 3

4" PAINTED PAVEMENT MARKING (YELLOW - TYP.)

PROP. REINFORCED CONC. SIDEWALK

PROP. VERTICAL CURB TYPE 1

9'-0" HANDICAP LOADING

9'-0"

9'-0" HANDICAP PARKING

9'-0"

PROP. CMU RETAINING WALL
(FOR DETAILS SEE

PROP. CMU RETAINING WALL
(FOR DETAILS SEE
SHEETS A2.2 & A4.1)

5'-0"

3'-0"

PROP. TERMINAL CURB TYPE 2

PROP. CURB TYPE 3

PROP. REINFORCED CONCRETE SIDEWALK

CONSTRUCTION ℄

REMOVE EXIST. SIDEWALK AND STEPS

EXISTING UNDERGROUND TUNNEL

JOINT 5'-0" C. TO C. Max.

MEET EXISTING ELEVATION

FLAG POLE

8'-0"

2'-0"

1:12 MAX. SLOPE

4'-0"

LEVEL

STA. 9+80 ELEV. 46.50

STA. 9+90 ELEV. 47.17

STA. 10+00 ELEV. 47.82

1/4 PT.

STA. 10+10 ELEV. 48.48

STA. 10+20 ELEV. 49.10

STA. 10+30 ELEV. 49.74

EXIST. SIDEWALK TO REMAIN

STA. 9+75.5 ELEV. 46.50

(STA. 364+00) (ELEV. 45.73)

(STA. 364+75) (ELEV. 49.42)

STA. 10+34 ELEV. 50

℄ SIDEWALK

(STA. 364+20) (ELEV. 46.17)

(STA. 364+30) (ELEV. 46.41)

JOINT 5'-0" C. TO C.

(STA. 364+50) (ELEV. 48.06)

PROP. REINFORCED CONC. SIDEWALK

48'-0"

EXIST ETC LANE

CONC. ISLAND

4' 2' 0' 4' 8' 12' 16'

SCALE IN FEET

No.	Revision	By	Date

	By	Date
Designed	RWB	6/99
Drawn	RWB	6/99
Checked	GWW	7/99
In Charge Of:	RAL	

Maine Turnpike Authority
Maine Turnpike

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YORK TOLL PLAZA
BUILDING RECONSTRUCTION AND EXPANSION
WALKWAY LAYOUT

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract 99.7

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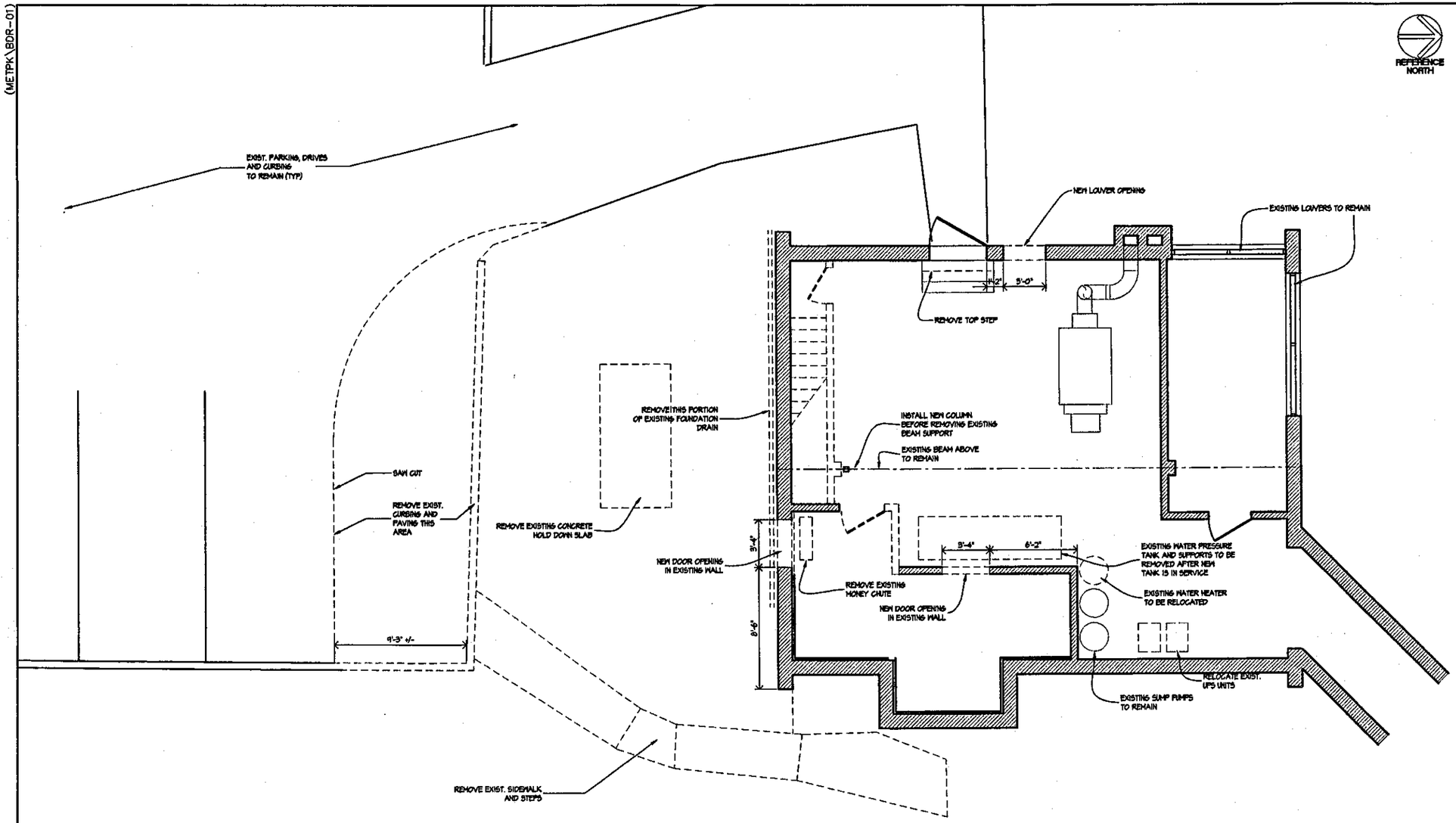
(METPK\BDR-01)



DEMOLITION LEGEND

- EXISTING PLUMBING FIXTURE TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WALL/CONSTRUCTION TO BE REMOVED
- EXISTING WINDOW TO BE REMOVED
- EXISTING WALL TO REMAIN
- EXISTING DOOR AND FRAME TO REMAIN

NOTE:
COORDINATE WITH LOUVER SHOP DRAWINGS PRIOR TO CUTTING CONCRETE

BASEMENT DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

BID SET: 6 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
				Designed		
				Drawn		
				Checked		

Maine Turnpike Authority
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Building Renovation And Expansion

BASEMENT DEMOLITION PLAN

HNTB
ARCHITECTS ENGINEERS PLANNERS

LASSEL ARCHITECTS
64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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YORK TOLL PLAZA - 99.7

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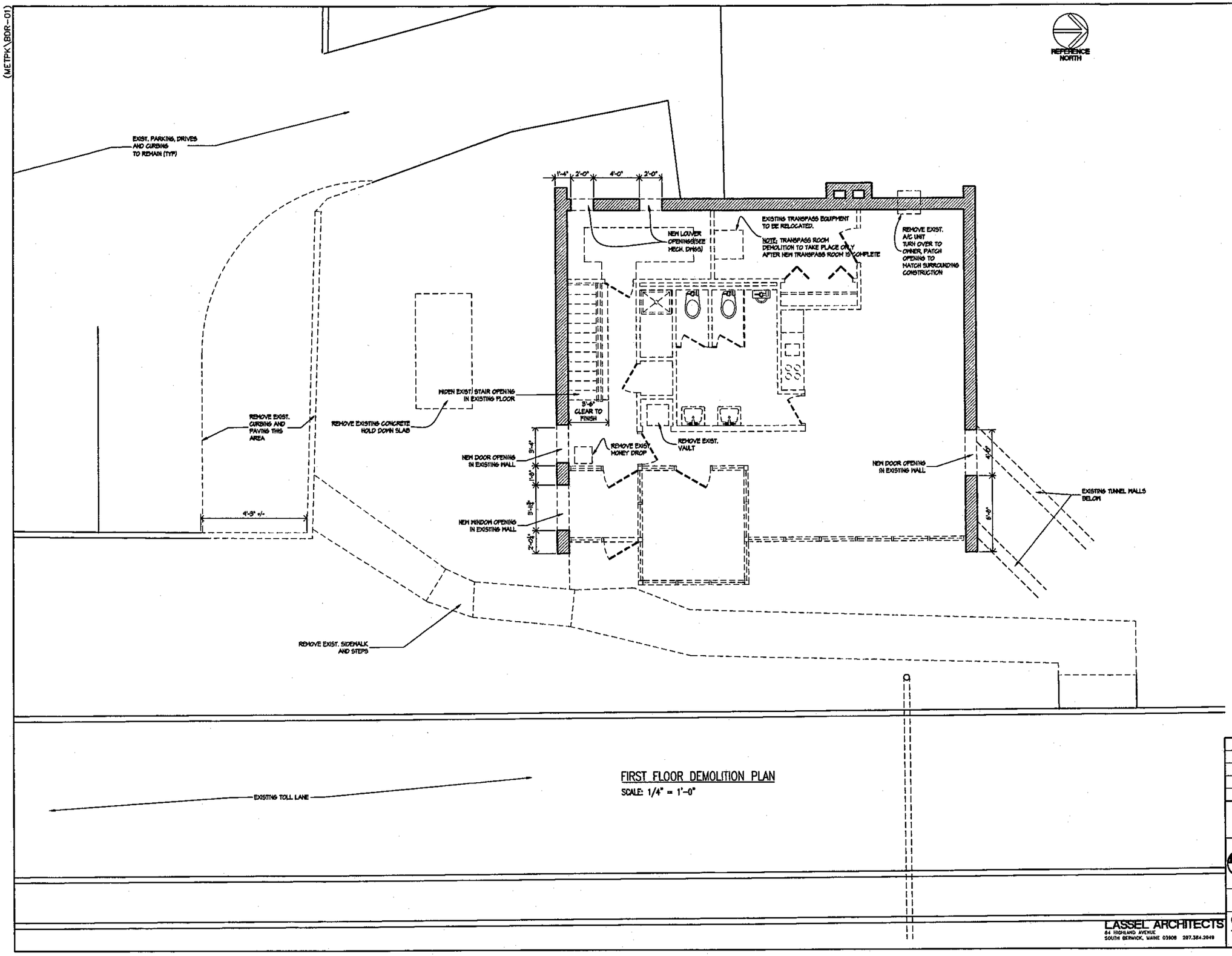
D1.1

(METPK\BDR-01)



DEMOLITION LEGEND

- EXISTING PLUMBING FIXTURE TO BE REMOVED
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WALL/CONSTRUCTION TO BE REMOVED
- EXISTING WINDOW TO BE REMOVED
- EXISTING WALL TO REMAIN
- EXISTING DOOR AND FRAME TO REMAIN

NOTE:
COORDINATE WITH LOUVER SHOP DRAWINGS PRIOR TO CUTTING CONCRETE

FIRST FLOOR DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
				Designed		
				Drawn		
				Checked		

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Building Renovation And Expansion

FIRST FLOOR DEMOLITION PLAN

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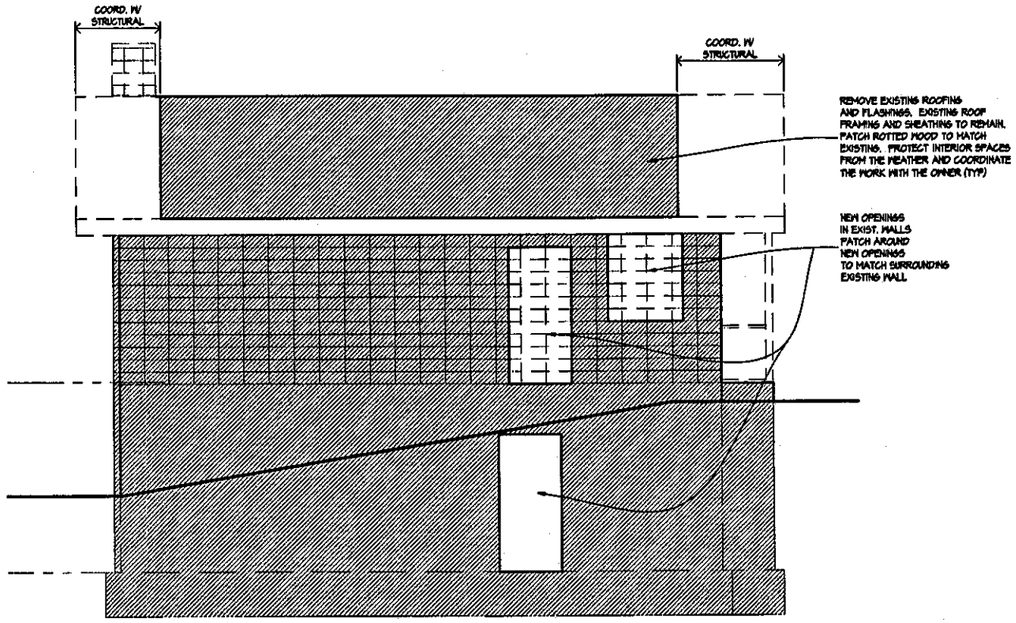
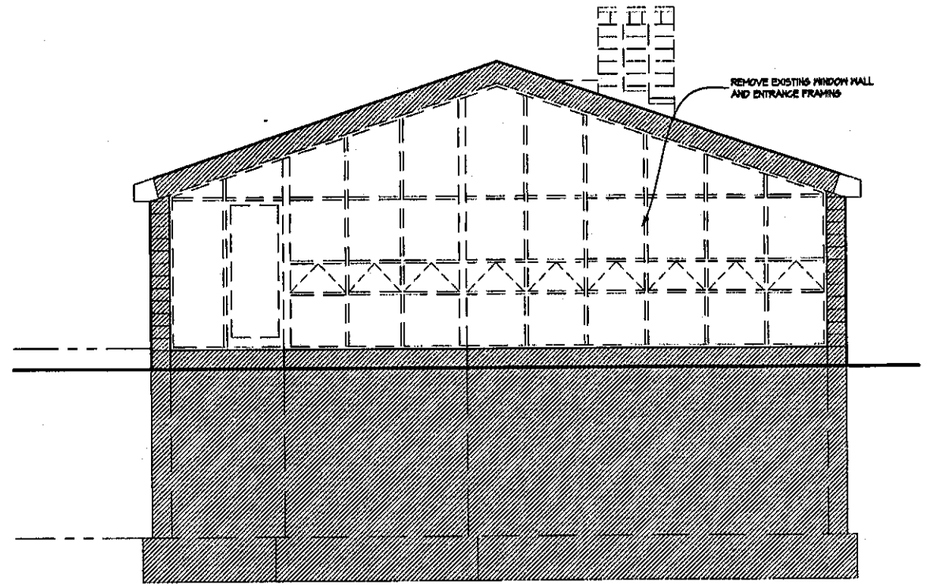
D1.2

(METPK\BDR-01)



EXISTING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

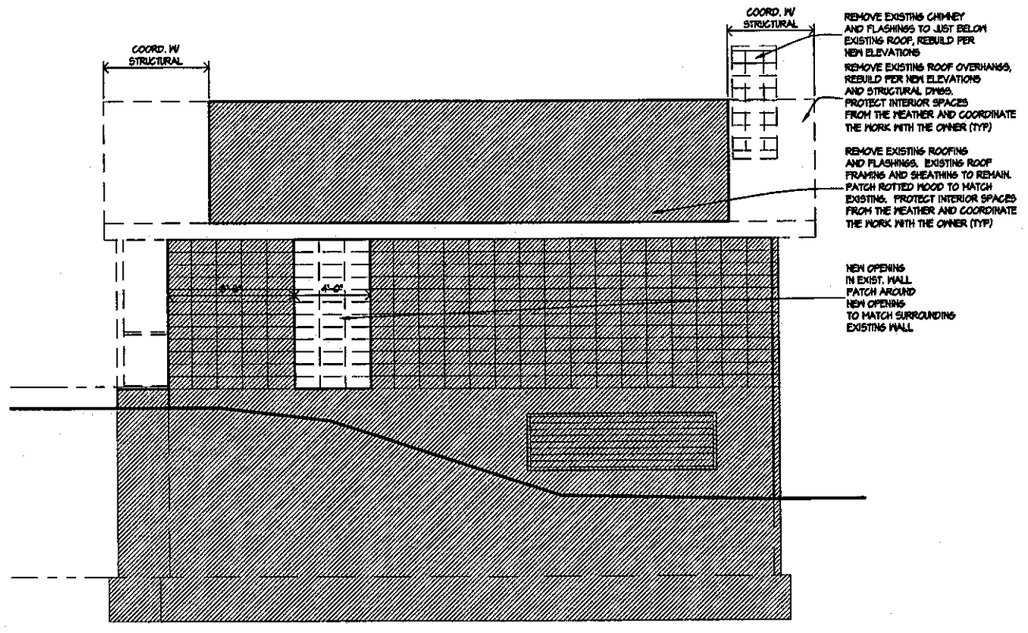


EXISTING EAST ELEVATION
SCALE: 1/4" = 1'-0"

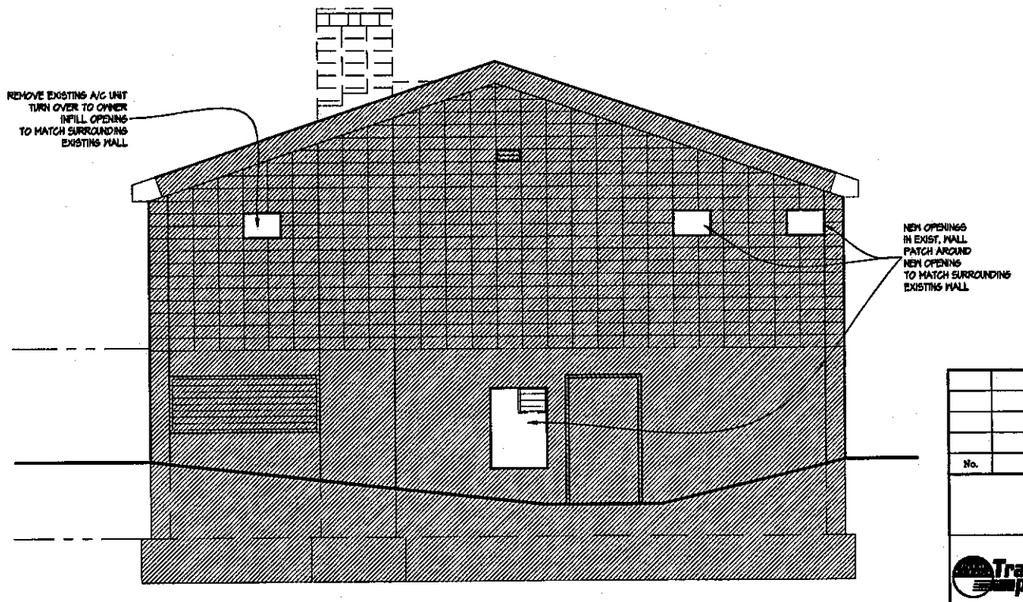
DEMOLITION LEGEND

------ EXISTING CONSTRUCTION TO BE REMOVED

EXISTING CONSTRUCTION TO REMAIN



EXISTING NORTH ELEVATION
SCALE: 1/4" = 1'-0"



EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
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				Drawn		
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Building Renovation And Expansion

DEMOLITION ELEVATIONS

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SOUTH BERWICK, MAINE 03908 207.384.2049

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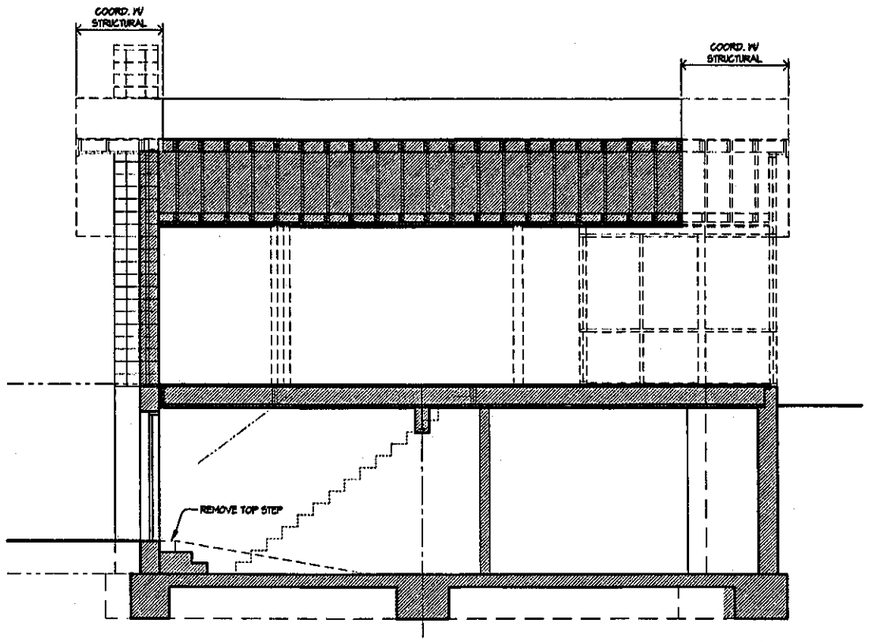
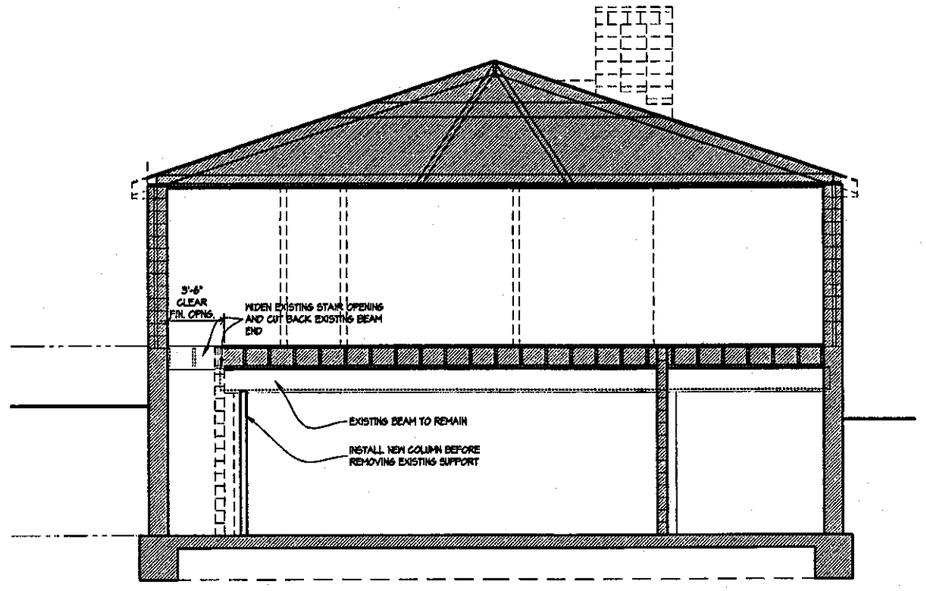


EXISTING EAST/WEST SECTION
SCALE: 1/4" = 1'-0"



EXISTING NORTH/SOUTH SECTION
SCALE: 1/4" = 1'-0"

DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING CONSTRUCTION TO REMAIN

BID SET: 5 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
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				Drawn		
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Building Renovation And Expansion

DEMOLITION SECTIONS

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SOUTH BERWICK, MAINE 03908 207.384.2049

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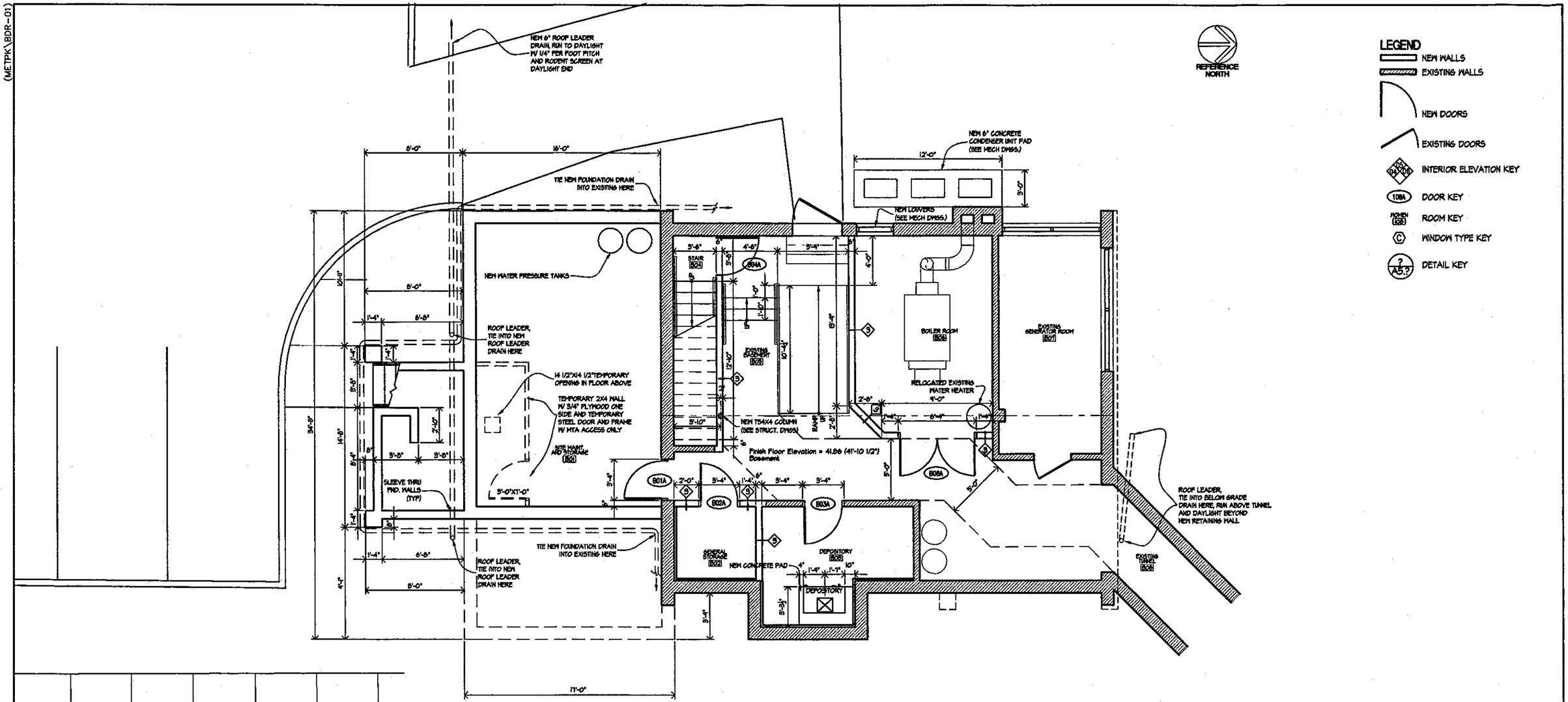
(METPK\BDR-01)



BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

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				Drawn		
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Building Renovation And Expansion

BASEMENT FLOOR PLAN

HNTB

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A1.1

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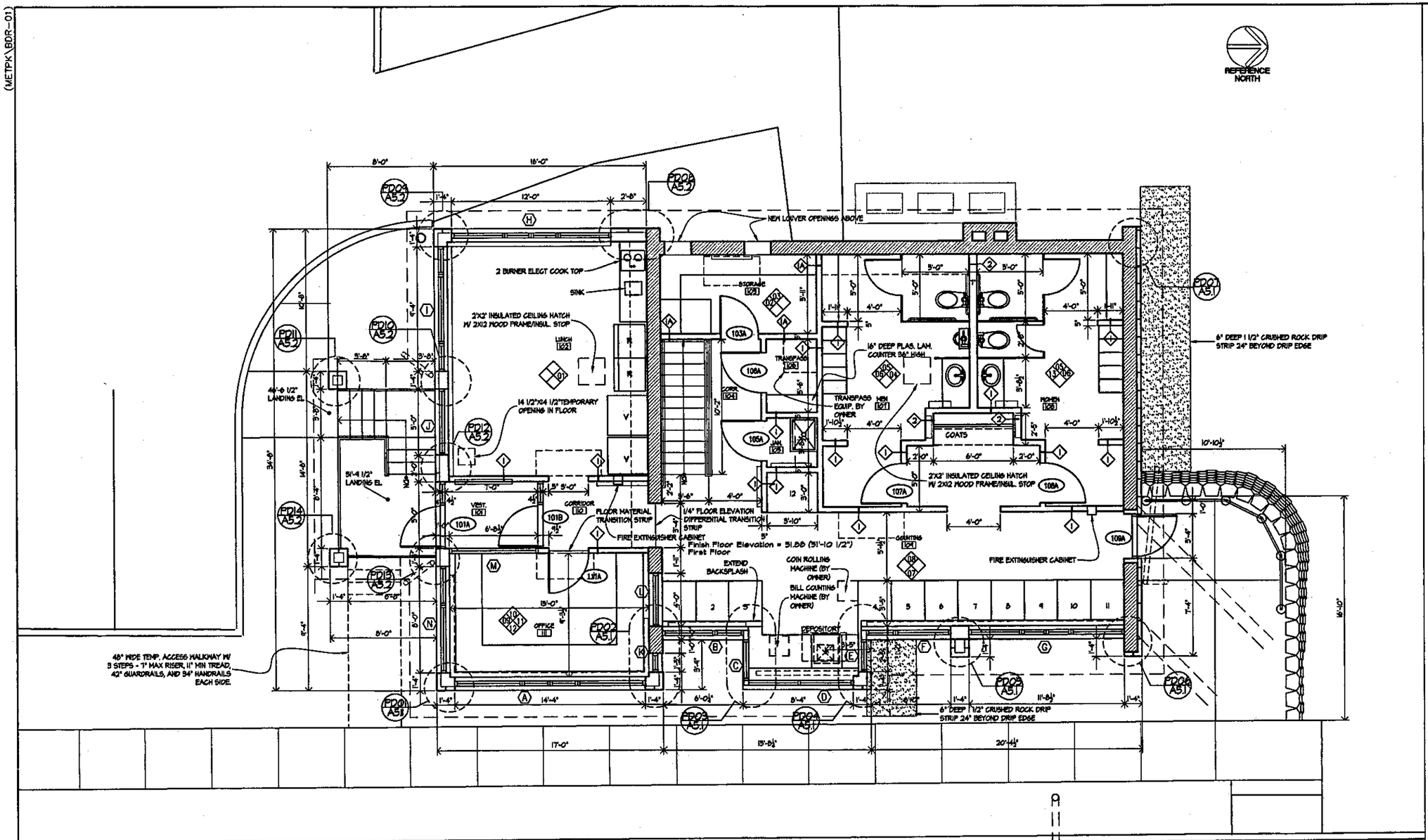

FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

LEGEND
- NEW WALLS
- EXISTING WALLS
- NEW DOORS
- EXISTING DOORS
- INTERIOR ELEVATION KEY
- DOOR KEY
- ROOM KEY
- WINDOW TYPE KEY
- DETAIL KEY

BID SET: 6 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
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FIRST FLOOR PLAN

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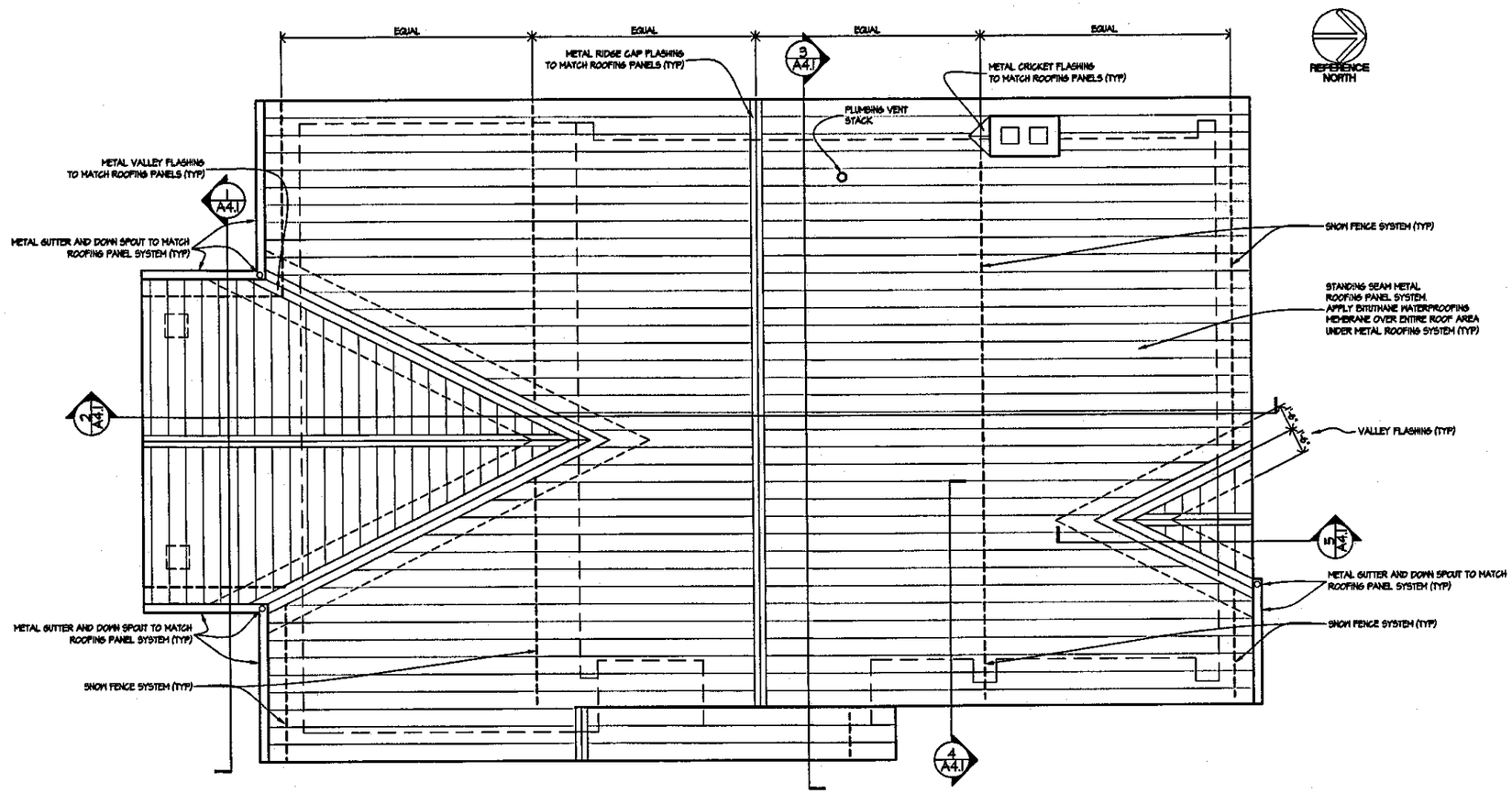

ROOF PLAN
SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

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				Drawn		
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Building Renovation And Expansion

ROOF PLAN

HNTB
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SOUTH BERWICK, MAINE 03908 207.384.2049

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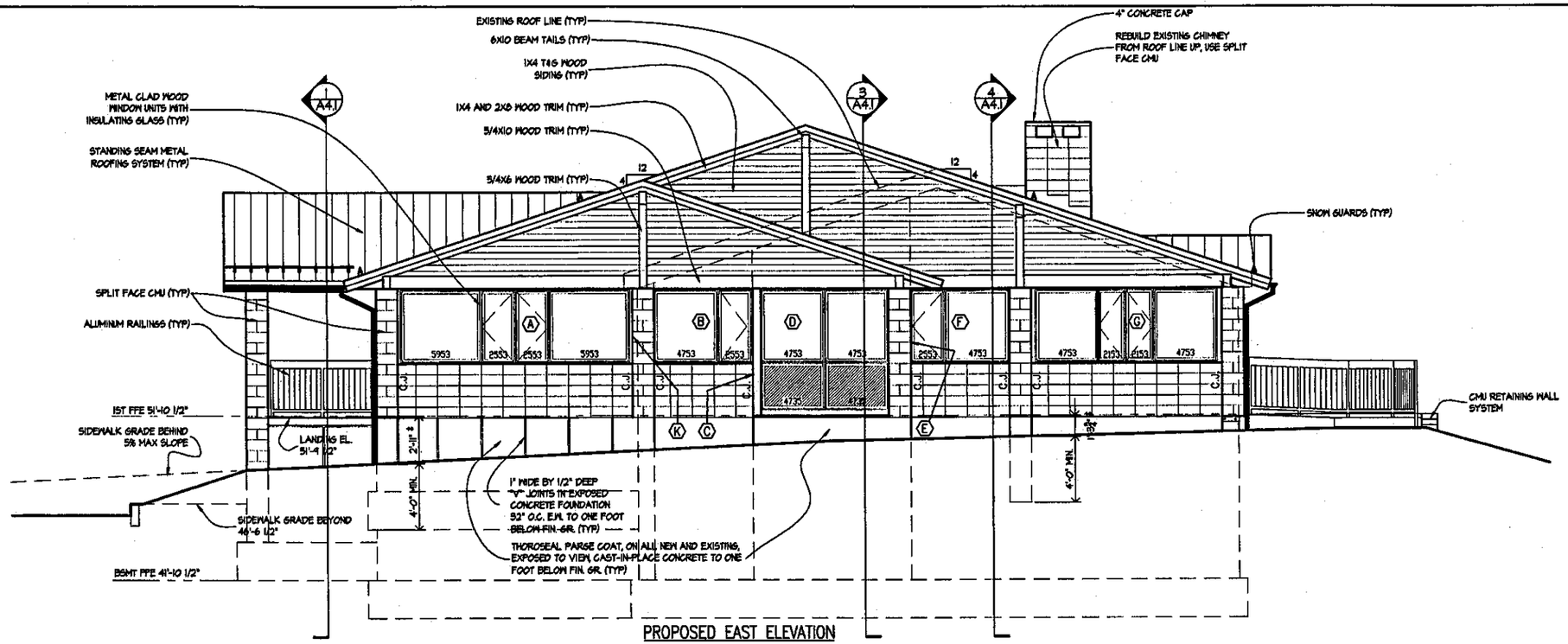
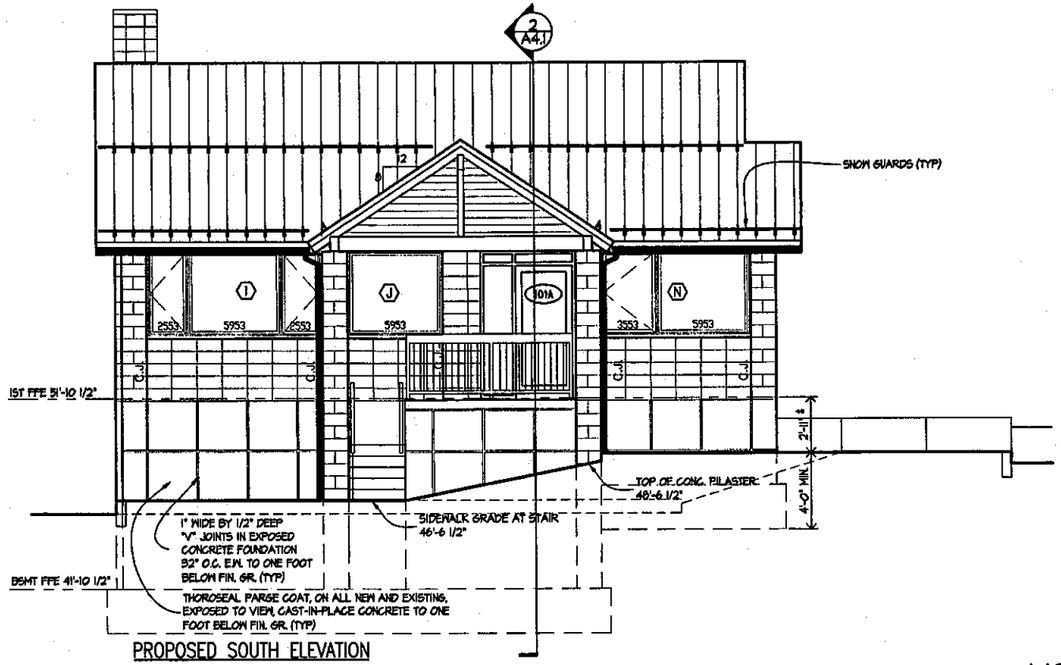


PROPOSED EAST ELEVATION

SCALE: 1/4" = 1'-0"



PROPOSED SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

LASSEL ARCHITECTS
64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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Building Renovation And Expansion

EXTERIOR ELEVATIONS

HNTB
ARCHITECTS ENGINEERS PLANNERS

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YORK TOLL PLAZA - 99.7

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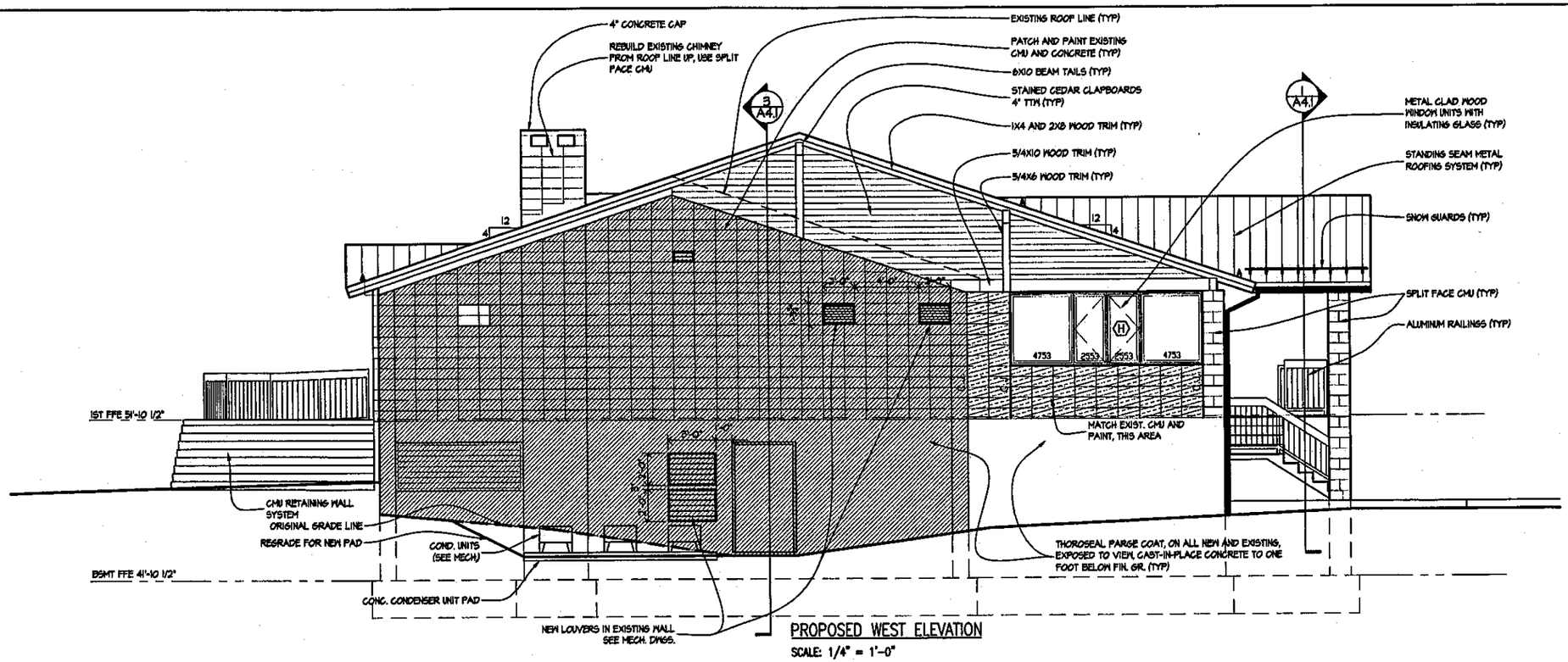
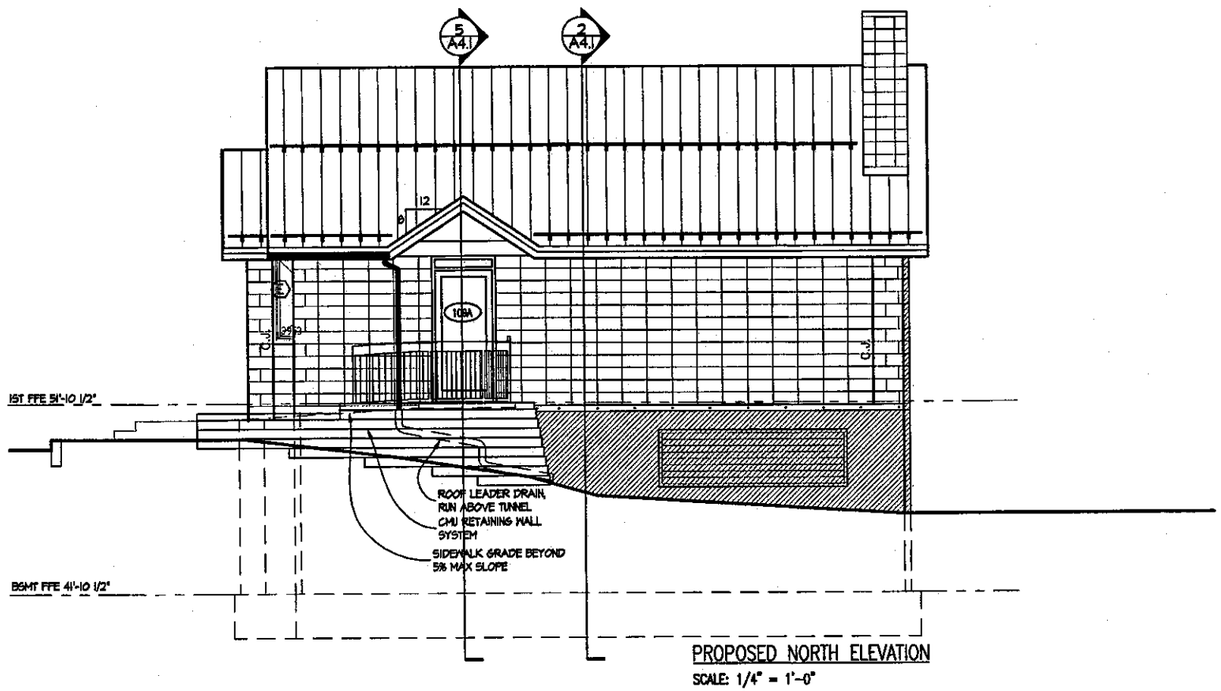
(METPK\BDR-01)



PROPOSED WEST ELEVATION

SCALE: 1/4" = 1'-0"



PROPOSED NORTH ELEVATION

SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

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Building Renovation And Expansion

EXTERIOR ELEVATIONS

HNTB ARCHITECTS ENGINEERS PLANNERS

LASSEL ARCHITECTS
64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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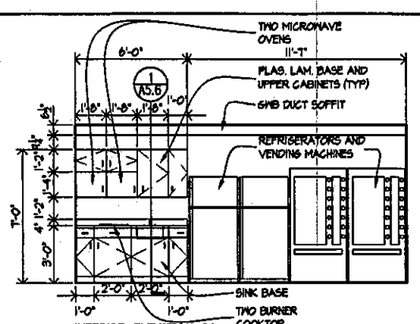
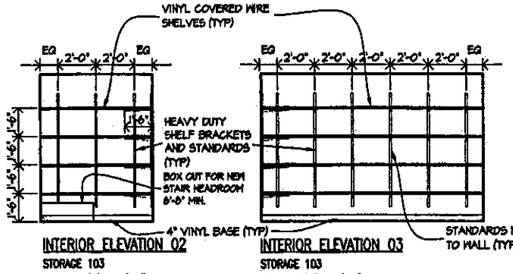


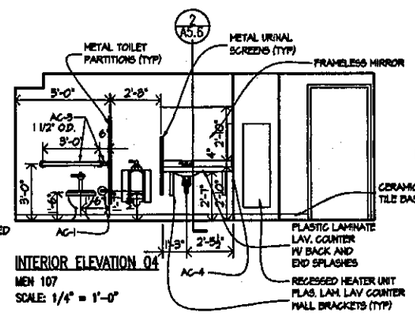
INTERIOR ELEVATION 01
LUNCH 102
SCALE: 1/4" = 1'-0"

NOTE:
VENDING MACHINES BY VENDOR
MICROWAVES AND REFRIGERATORS IN CONTRACT

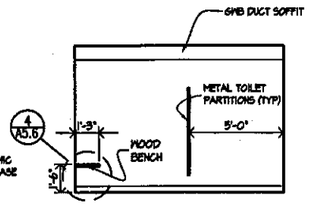


INTERIOR ELEVATION 02
STORAGE 103
SCALE: 1/4" = 1'-0"

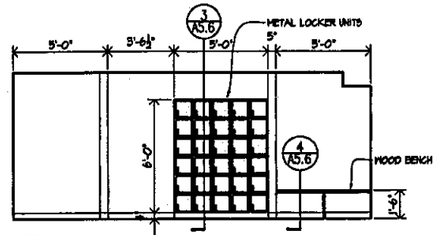
INTERIOR ELEVATION 03
STORAGE 103
SCALE: 1/4" = 1'-0"



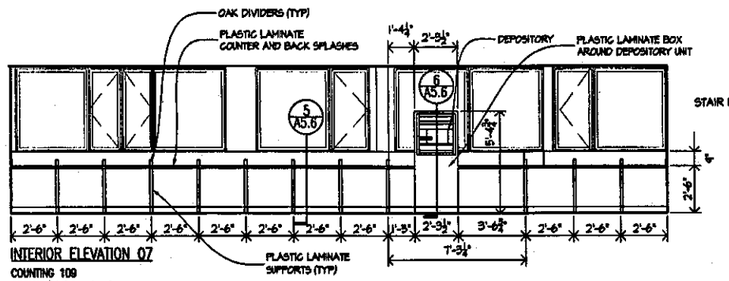
INTERIOR ELEVATION 04
MEN 107
SCALE: 1/4" = 1'-0"



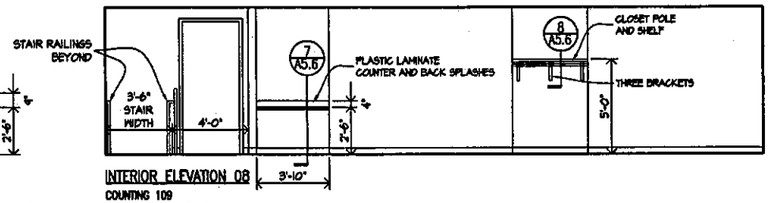
INTERIOR ELEVATION 05
MEN 107/WOMEN 108 OPP. HD.
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION 06
MEN 107/WOMEN 108 OPP. HD.
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION 07
COUNTING 109
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION 08
COUNTING 109
SCALE: 1/4" = 1'-0"

Toilet Accessories:
PROVIDE AND INSTALL BLOCKING AS REQUIRED FOR ALL ACCESSORIES
AC-1 TOILET PAPER HOLDER (BY OWNER)
AC-2 FEMININE NAPKIN DISPENSER (BY OWNER)
AC-3 SOAP DISPENSER (BY OWNER)
AC-4 PAPER TOWEL DISPENSER (BY OWNER)
AC-5 GRAB BARS

INTERIOR ELEVATION 09
OFFICE 111
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION 10
OFFICE 111
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION 11
OFFICE 111
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION 12
OFFICE 111
SCALE: 1/4" = 1'-0"

INT. ELEV. 13
WOMEN 108
SCALE: 1/4" = 1'-0"

BID SET: 5 AUGUST 1999

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Maine Turnpike Authority
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Building Renovation And Expansion

INTERIOR ELEVATIONS

HNTB
ARCHITECTS ENGINEERS PLANNERS

LASSEL ARCHITECTS
64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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(METPK\BDR-01)

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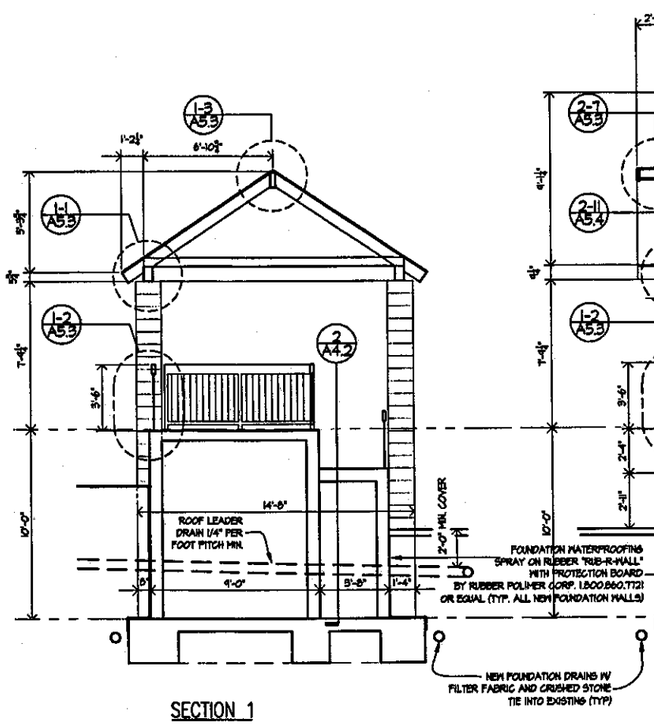
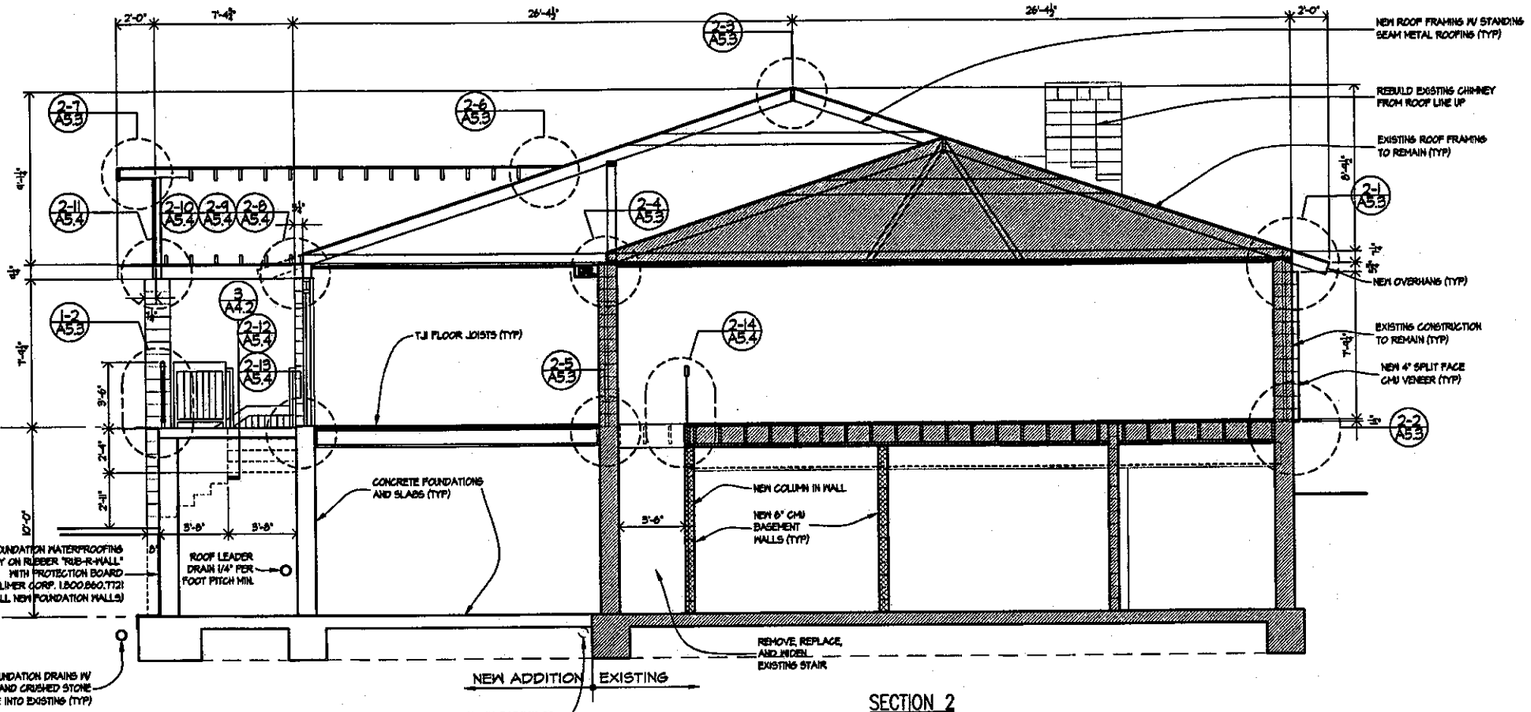
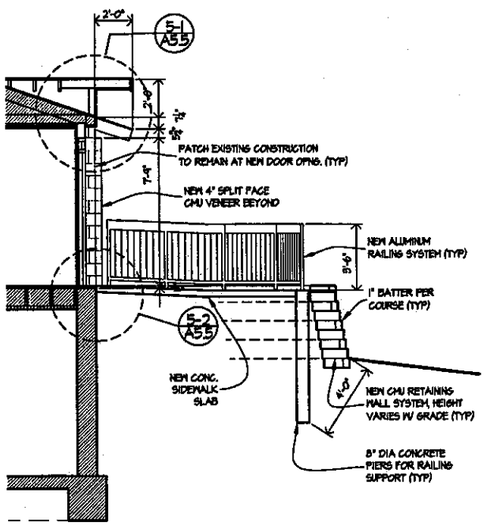


SECTION 1
SCALE: 1/4" = 1'-0"



SECTION 2
SCALE: 1/4" = 1'-0"



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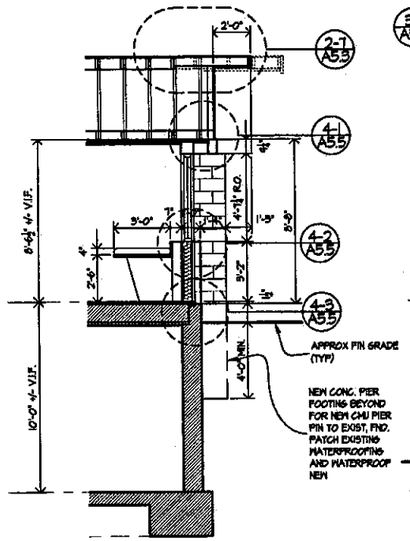
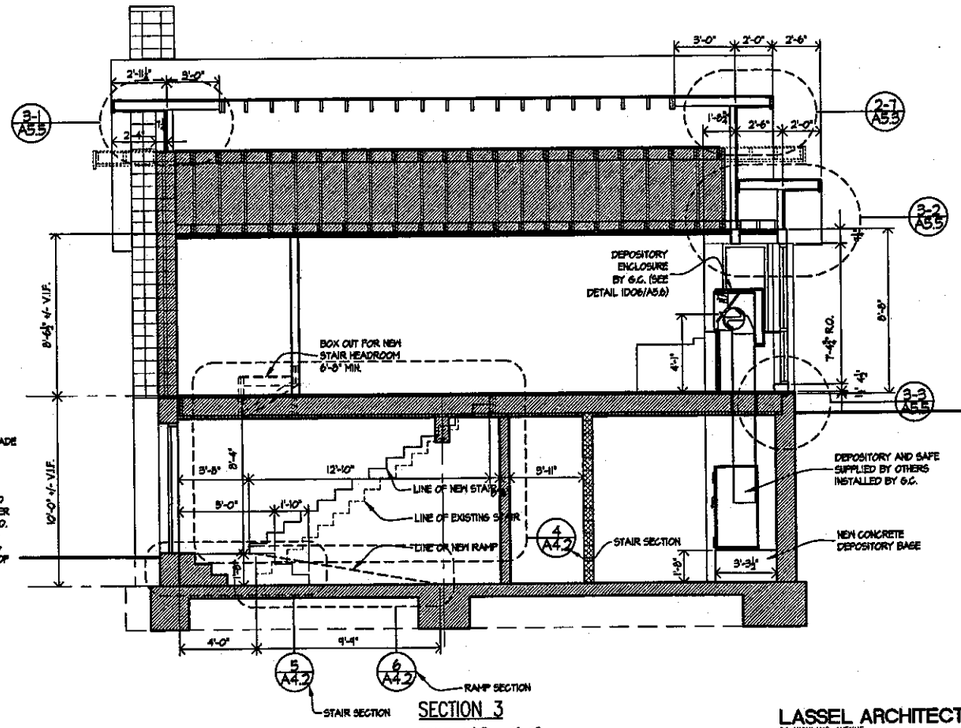


SECTION 4
SCALE: 1/4" = 1'-0"



SECTION 3
SCALE: 1/4" = 1'-0"

BID SET: 6 AUGUST 1999

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Building Renovation And Expansion

BUILDING SECTIONS

HNTB
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64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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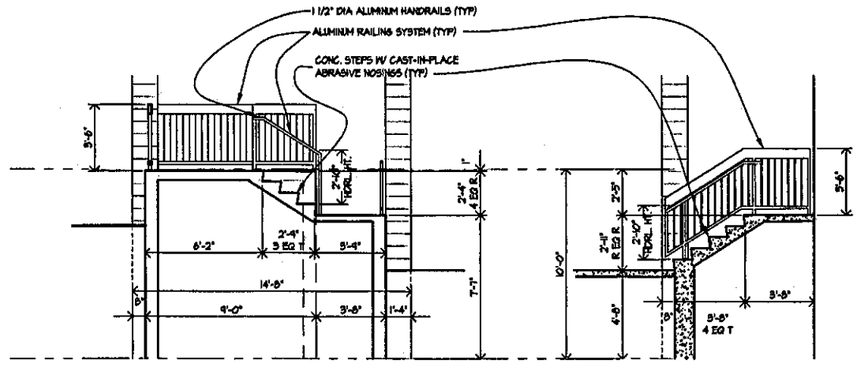
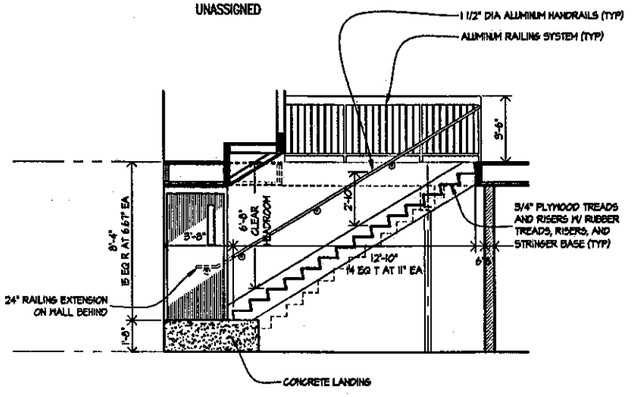


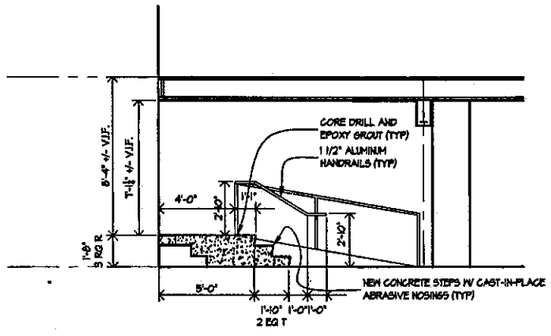
STAIR SECTION 1

UNASSIGNED



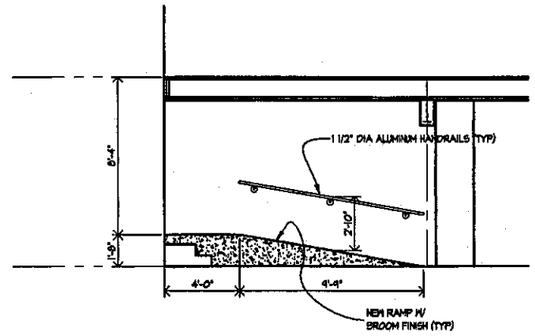
ENTRY STAIR SECTION 2

SCALE: 1/4" = 1'-0"



ENTRY STAIR SECTION 3

SCALE: 1/4" = 1'-0"



STAIR 1 SECTION 4

SCALE: 1/4" = 1'-0"

BASEMENT STAIR SECTION 5

SCALE: 1/4" = 1'-0"

RAMP SECTION 6

SCALE: 1/4" = 1'-0"

BID SET: 6 AUGUST 1999

No.	Revision	By	Date	In Charge Of:	By	Date
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				Drawn		
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Building Renovation And Expansion

STAIR SECTIONS

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SOUTH BERWICK, MAINE 03908 207.384.2049

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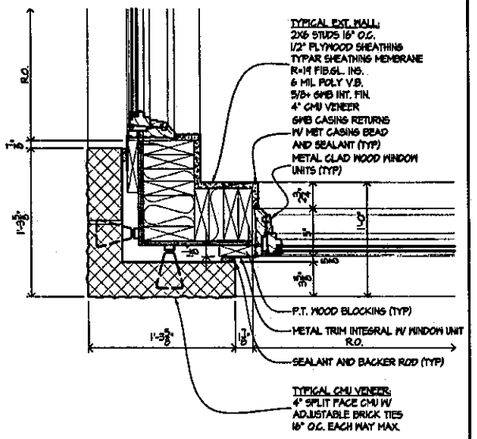
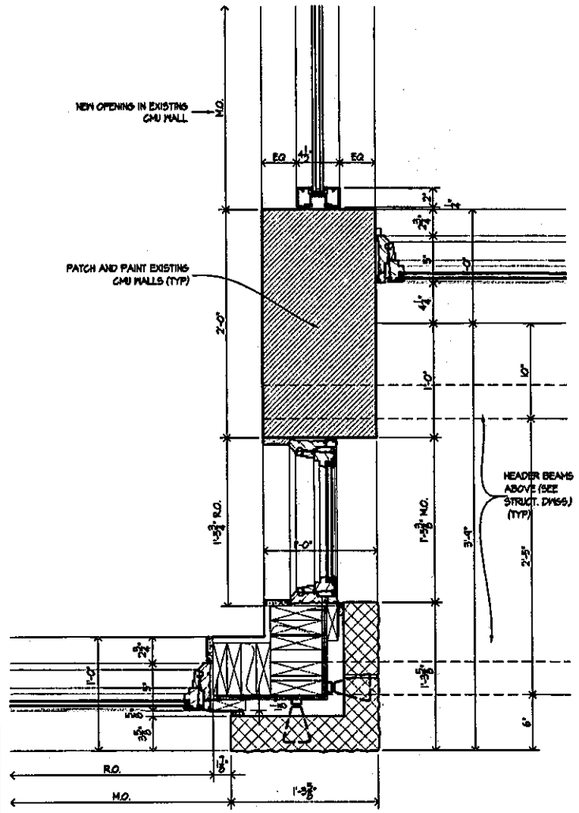
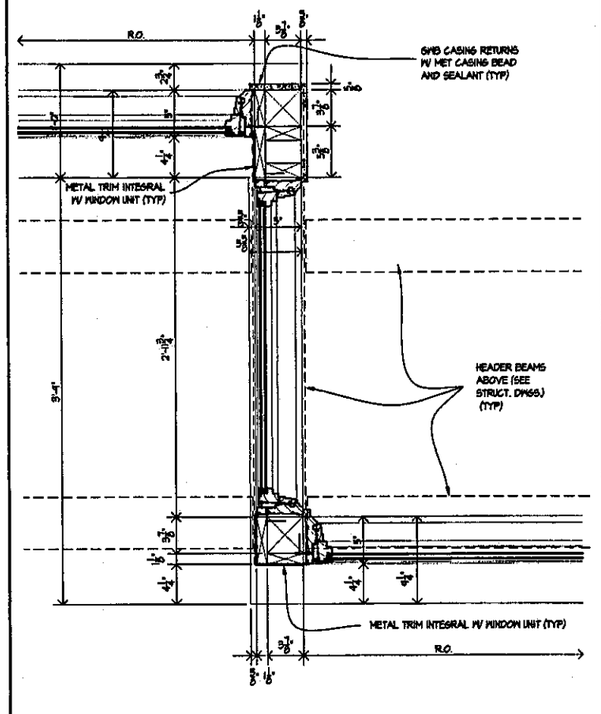


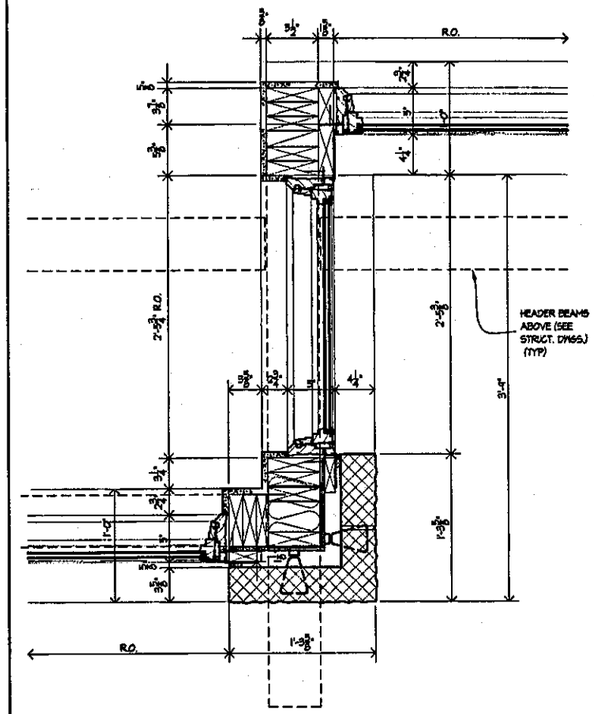
PD01	PLAN DETAIL
1 1/2" = 1'-0"	XPD01.DWG



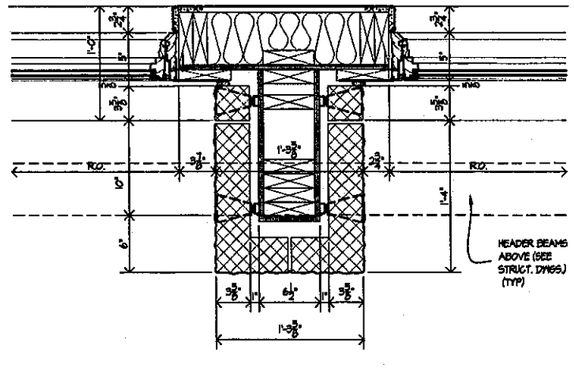
PD02	PLAN DETAIL
1 1/2" = 1'-0"	XPD02.DWG



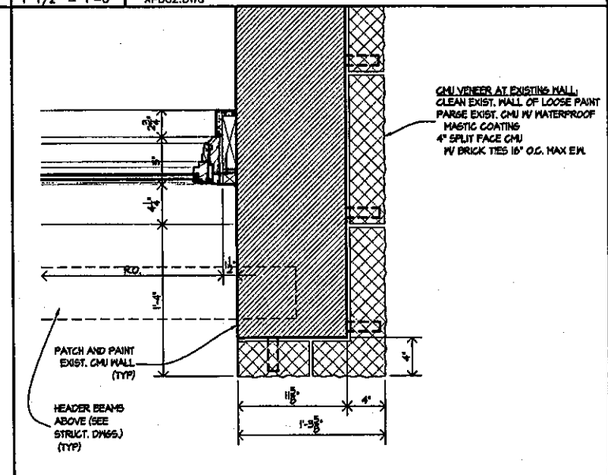
PD03	PLAN DETAIL
1 1/2" = 1'-0"	XPD03.DWG



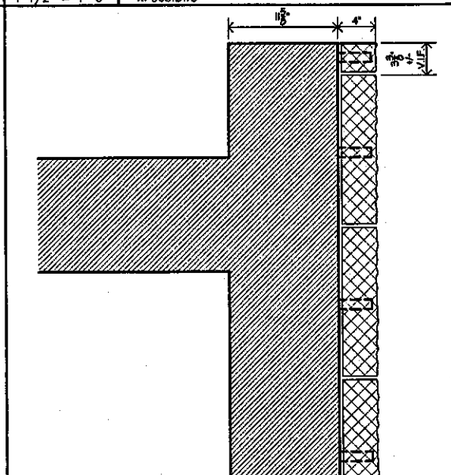
PD04	PLAN DETAIL
1 1/2" = 1'-0"	XPD04.DWG



PD05	PLAN DETAIL
1 1/2" = 1'-0"	XPD05.DWG



PD06	PLAN DETAIL
1 1/2" = 1'-0"	XPD06.DWG



PD07	PLAN DETAIL
1 1/2" = 1'-0"	XPD07.DWG

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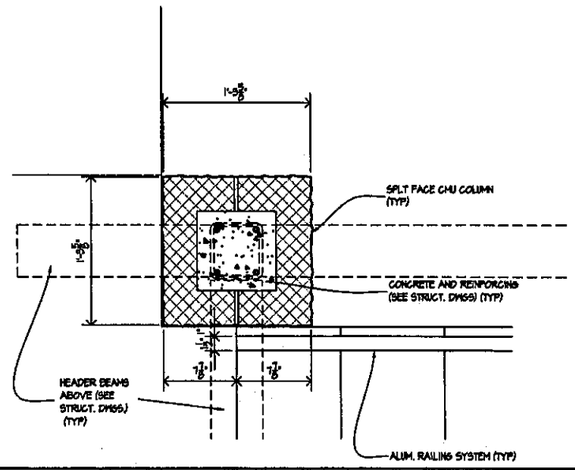
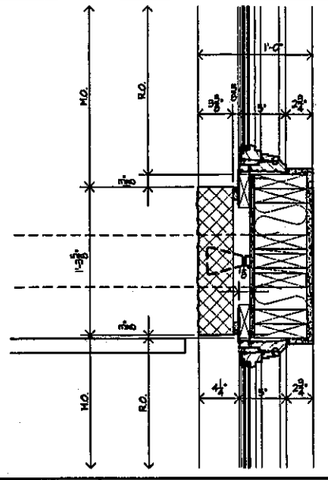
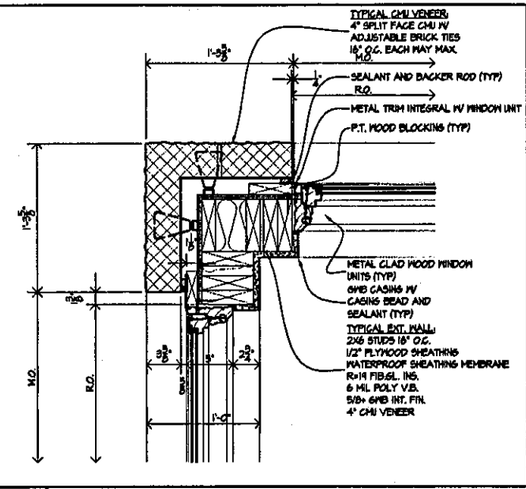


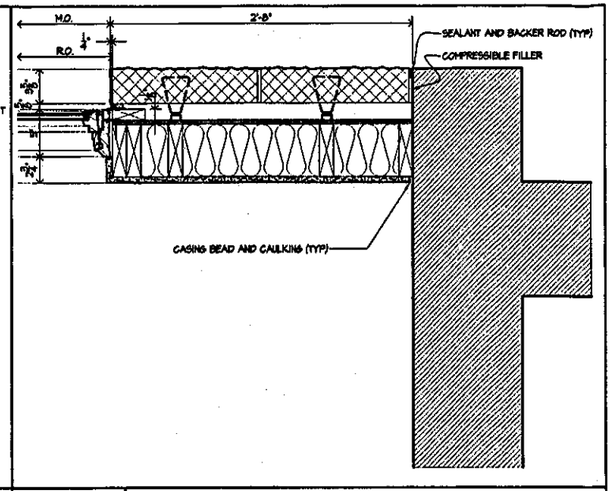
PD11	PLAN DETAIL
1 1/2" = 1'-0"	XPD11.DWG



PD10	PLAN DETAIL
1 1/2" = 1'-0"	XPD10.DWG



PD09	PLAN DETAIL
1 1/2" = 1'-0"	XPD09.DWG



PD08	PLAN DETAIL
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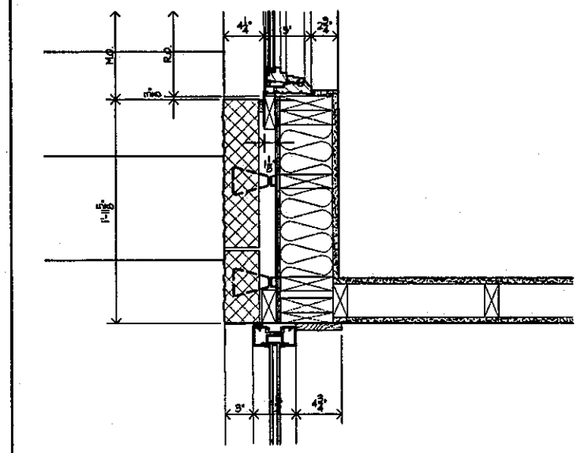
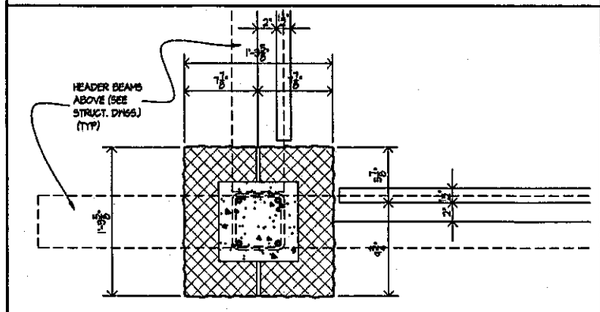
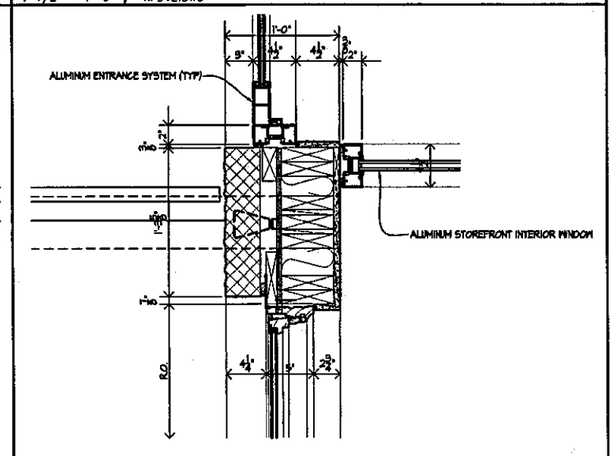


PD12	PLAN DETAIL
1 1/2" = 1'-0"	XPD12.DWG



PD14	PLAN DETAIL
1 1/2" = 1'-0"	XPD14.DWG



PD13	PLAN DETAIL
1 1/2" = 1'-0"	XPD13.DWG

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A5.2

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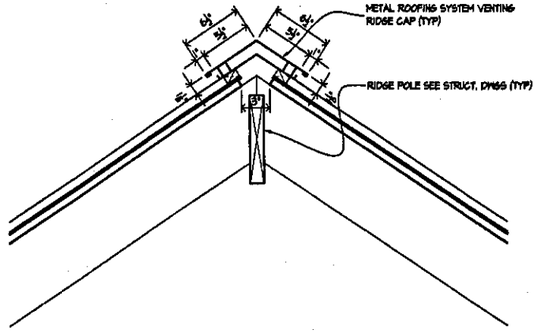
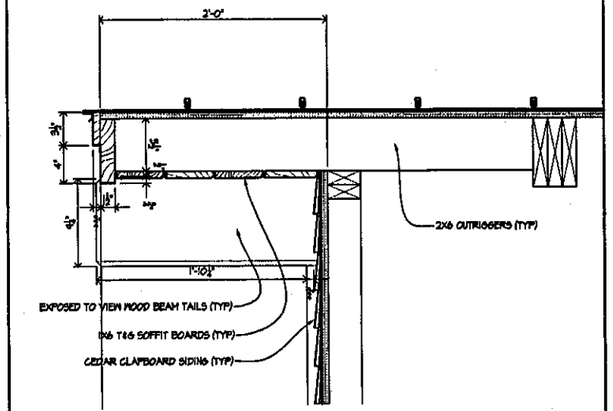
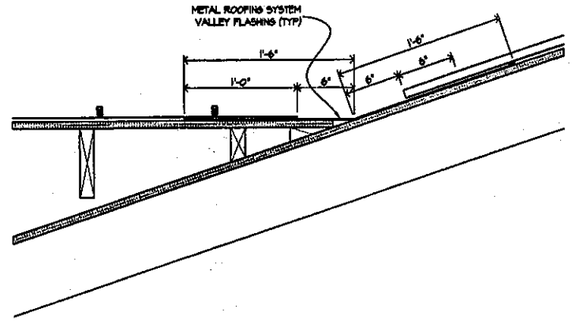


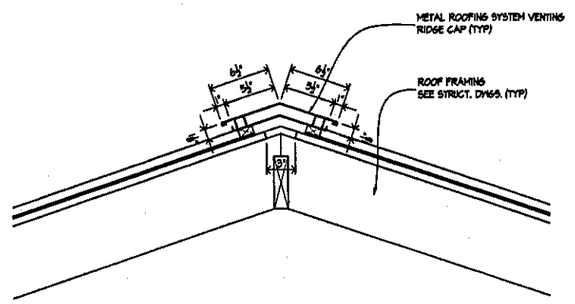
1-3	SECTION DETAIL
1 1/2" = 1'-0"	XSD1-3.DWG



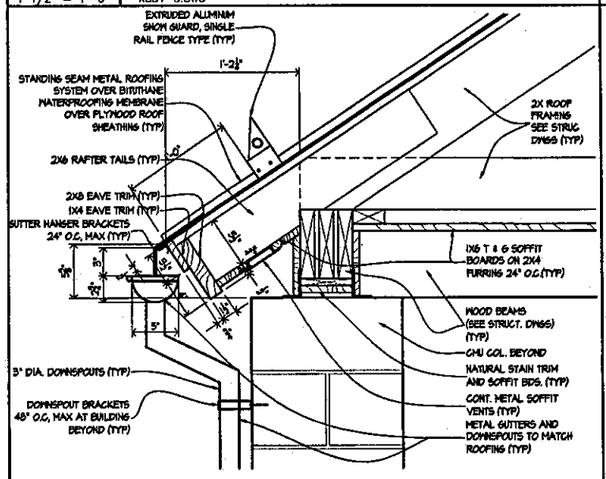
2-7	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-7.DWG



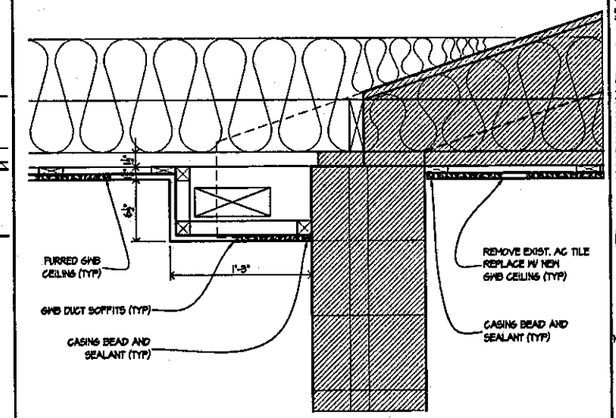
2-6	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-6.DWG



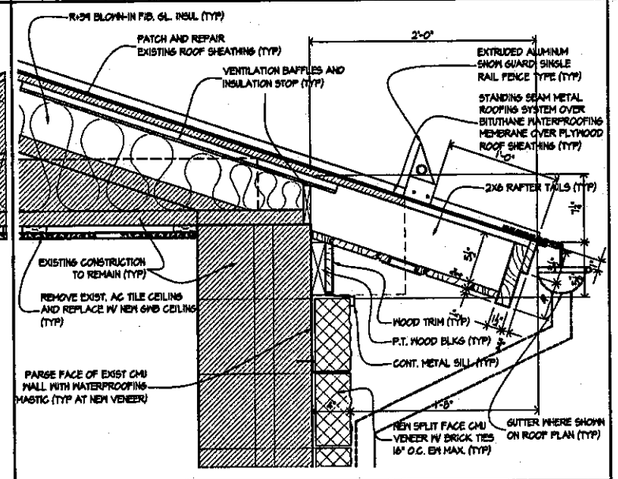
2-3	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-3.DWG



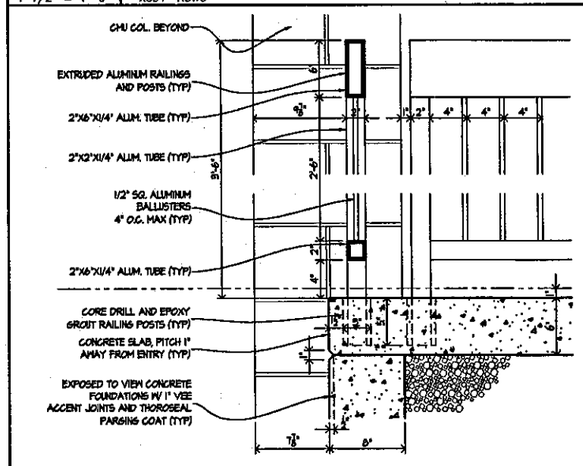
1-1	SECTION DETAIL
1 1/2" = 1'-0"	XSD1-1.DWG



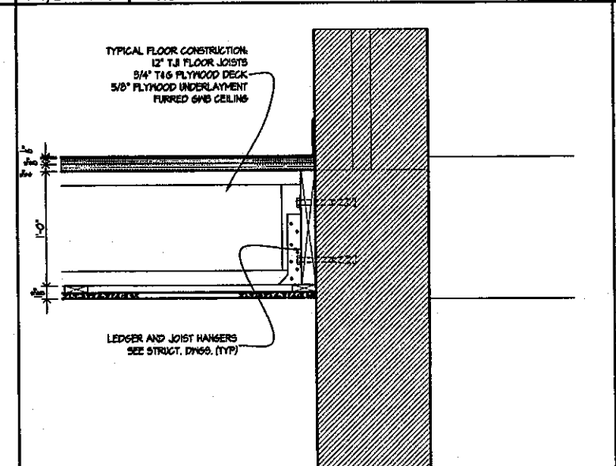
2-4	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-4.DWG



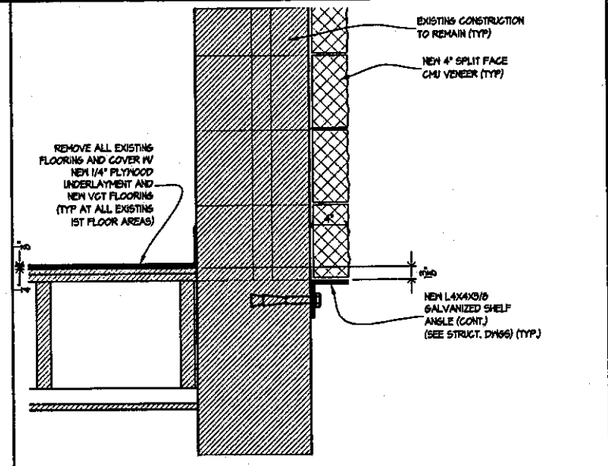
2-1	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-1.DWG



1-2	SECTION DETAIL
1 1/2" = 1'-0"	XSD1-2.DWG



2-5	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-5.DWG



2-2	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-2.DWG

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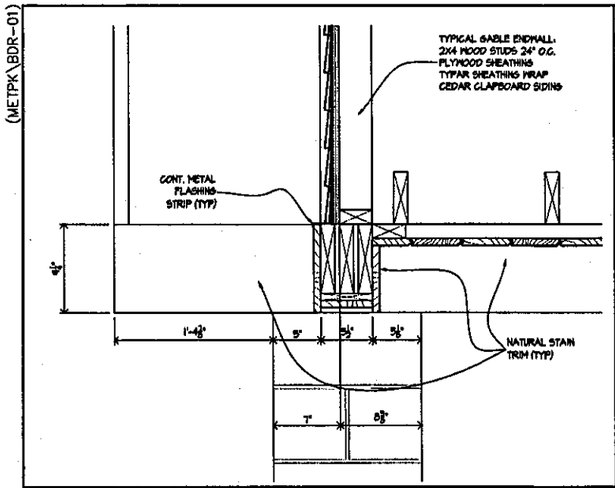
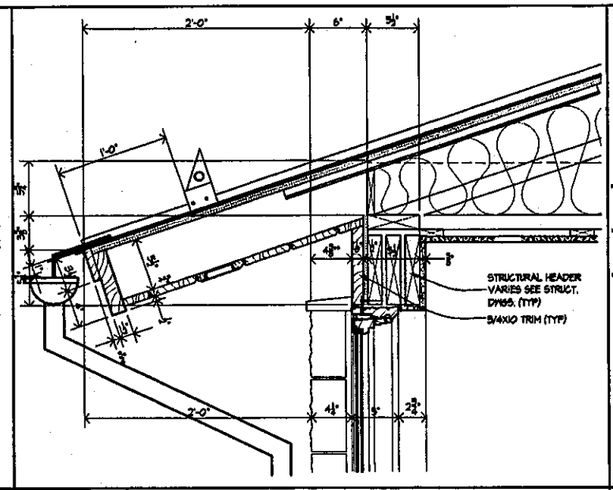
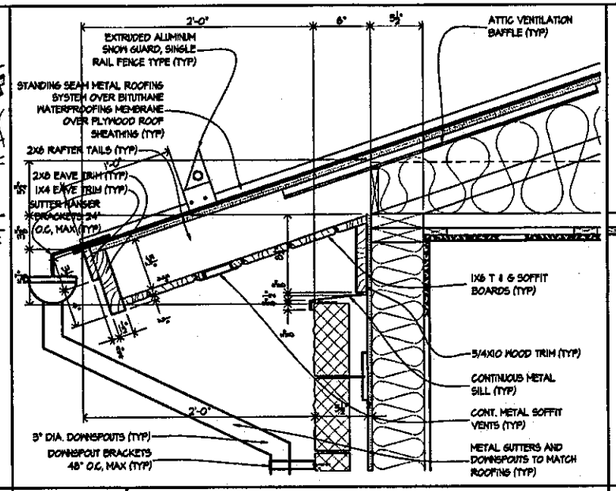


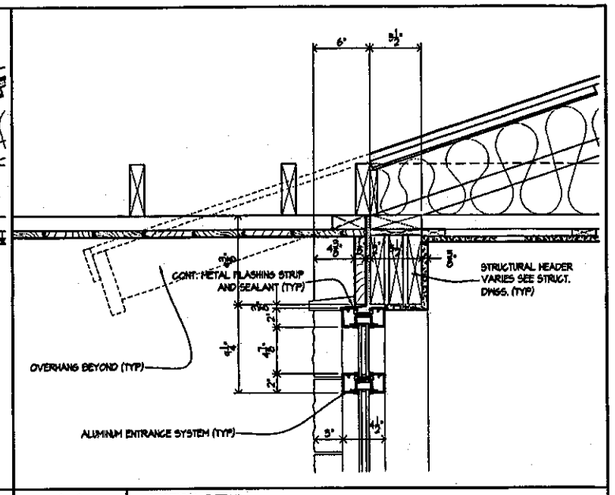
2-11	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-11.DWG



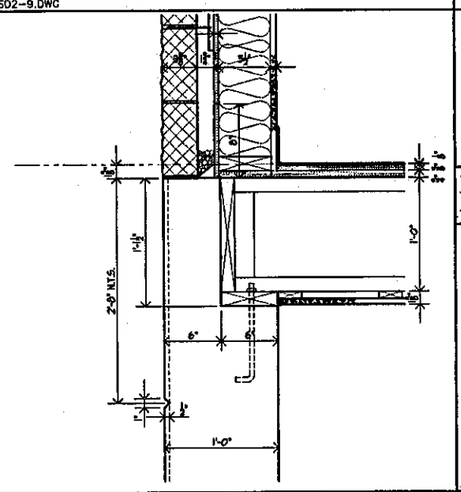
2-10	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-10.DWG



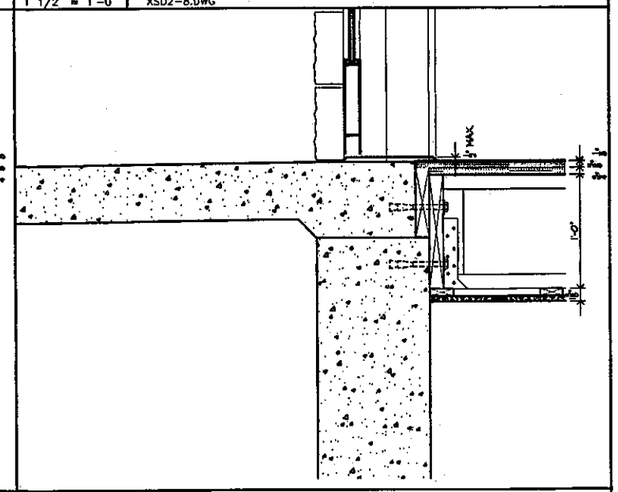
2-9	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-9.DWG



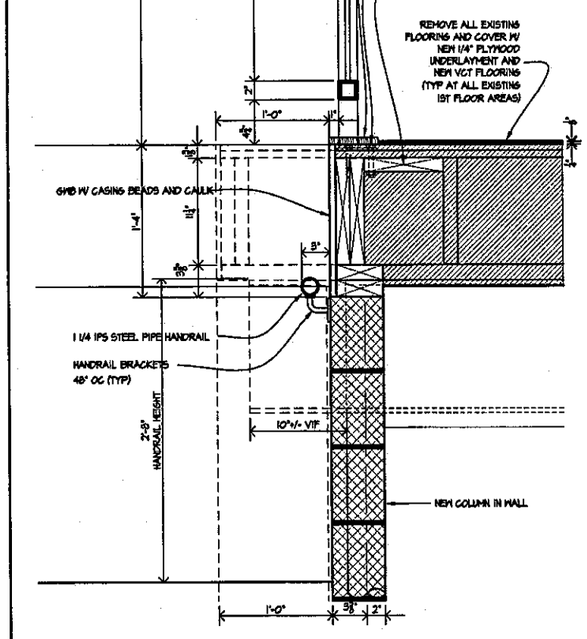
2-8	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-8.DWG



2-13	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-13.DWG



2-12	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-12.DWG



2-14	SECTION DETAIL
1 1/2" = 1'-0"	XSD2-14.DWG

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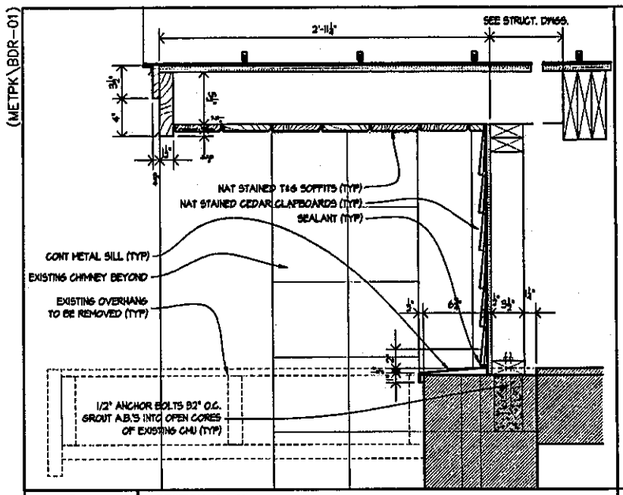

3-1 SECTION DETAIL
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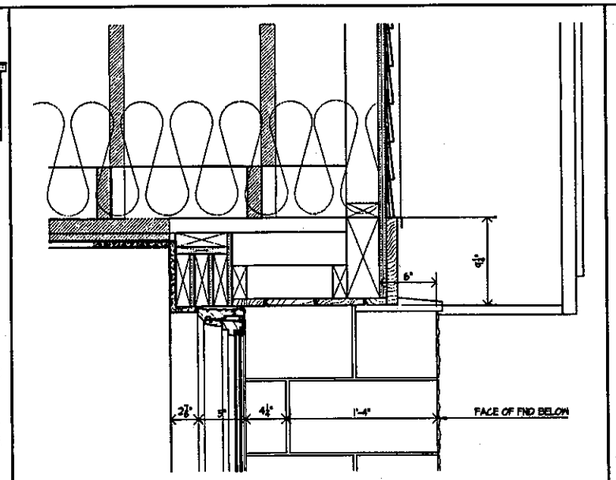
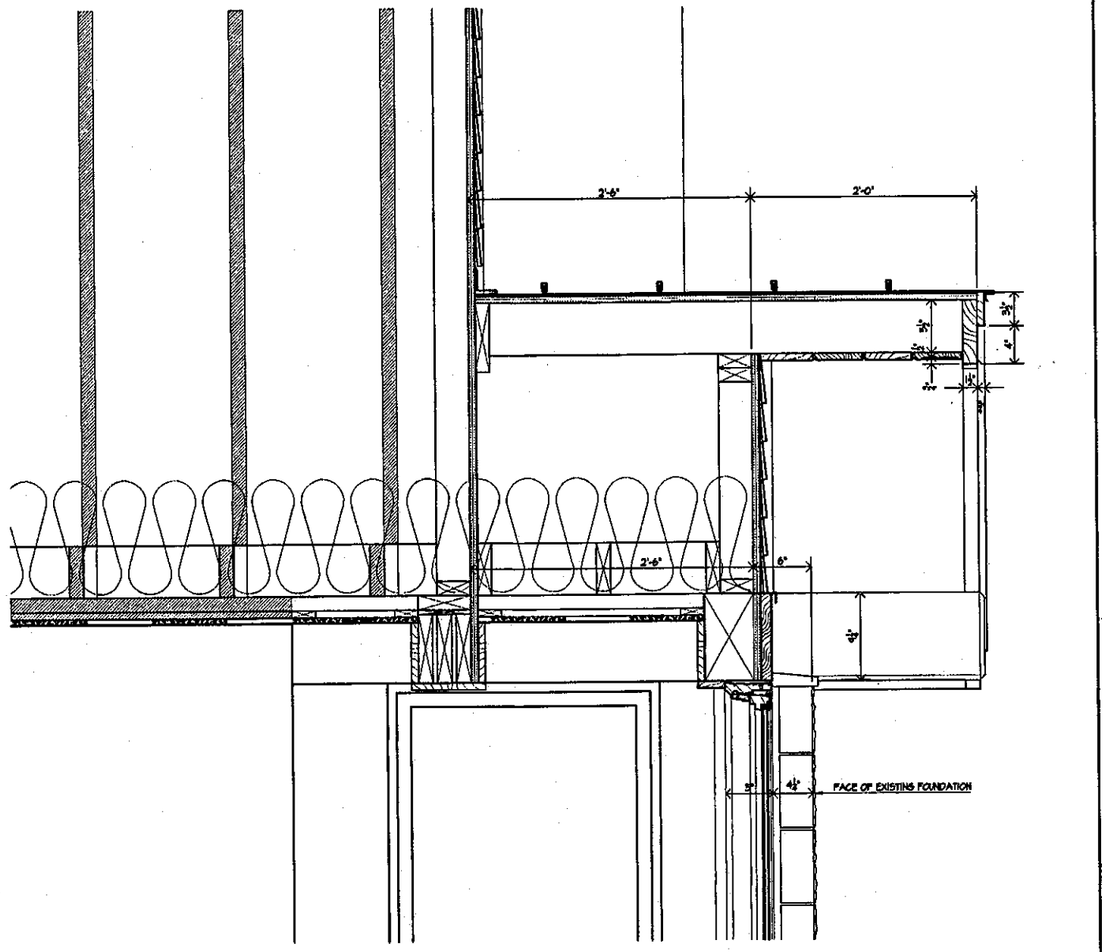


4-1 SECTION DETAIL
1 1/2" = 1'-0" XSD4-1.DWG



3-2 SECTION DETAIL
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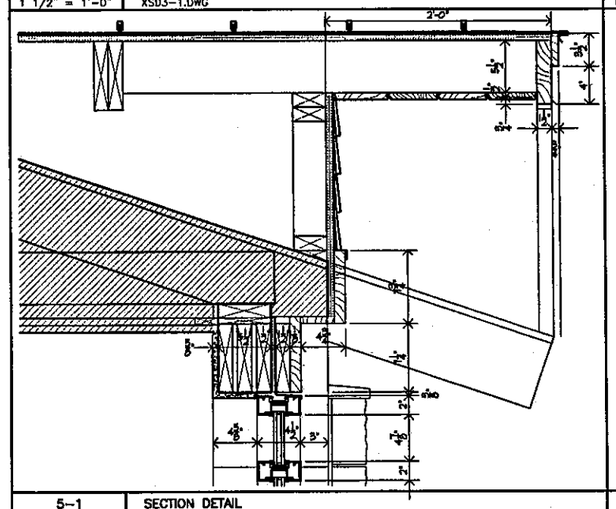
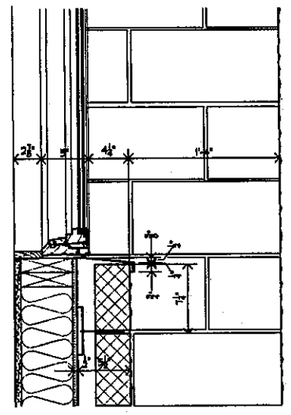
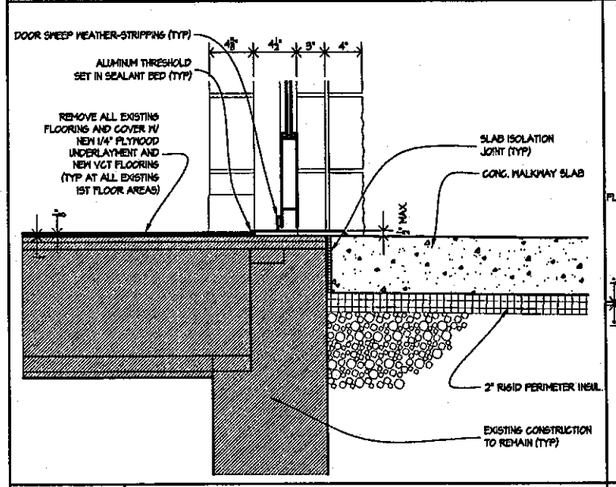


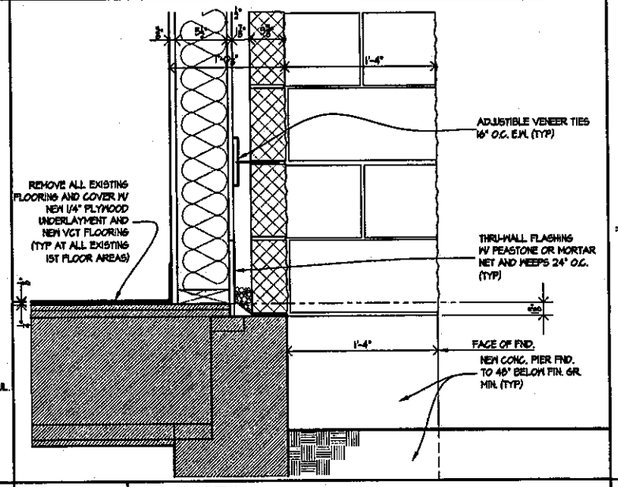
5-1 SECTION DETAIL
1 1/2" = 1'-0" XSD5-1.DWG



4-2 SECTION DETAIL
1 1/2" = 1'-0" XSD4-2.DWG



5-2 SECTION DETAIL
1 1/2" = 1'-0" XSD5-2.DWG



4-3 SECTION DETAIL
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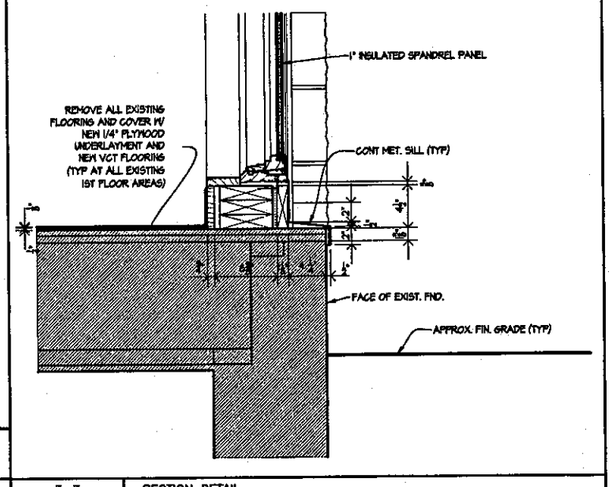

3-3 SECTION DETAIL
1 1/2" = 1'-0" XSD3-3.DWG

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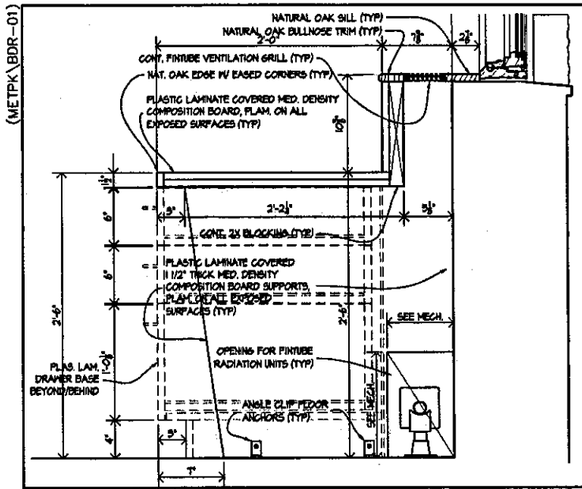

ID09	INTERIOR DETAIL
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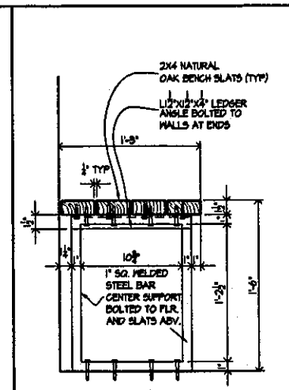

ID04	INTERIOR DETAIL
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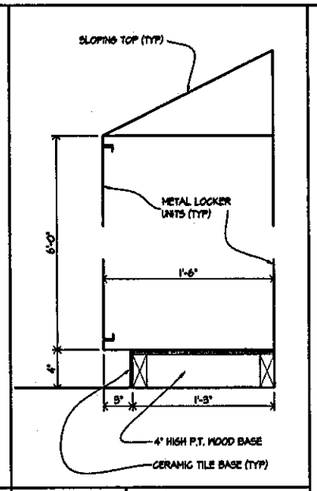
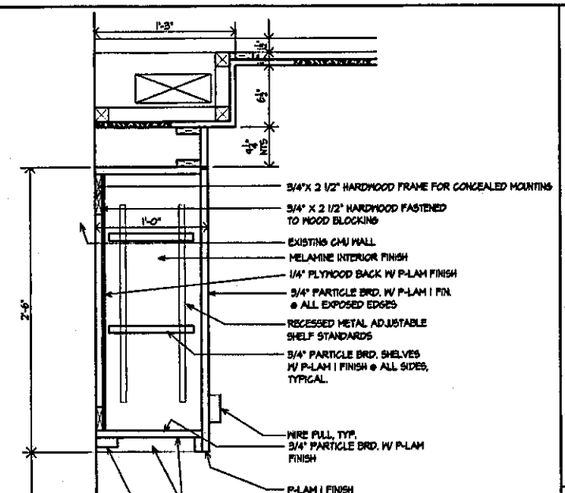
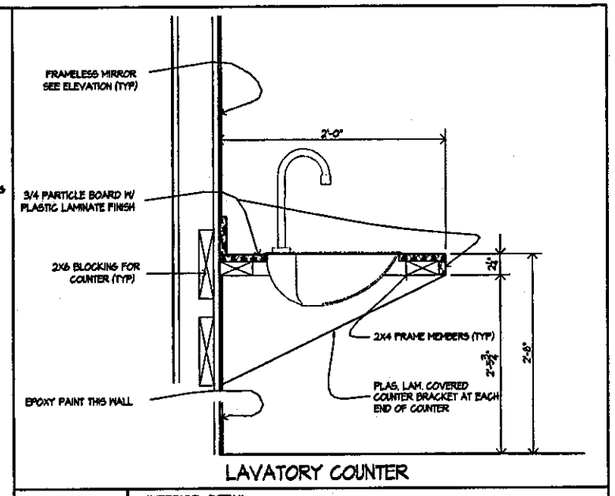


ID03	INTERIOR DETAIL
1 1/2" = 1'-0"	XID03.DWG

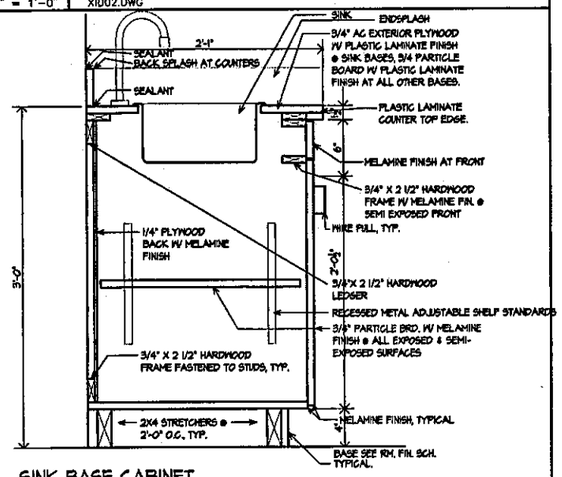


WALL AND BASE CABINETS

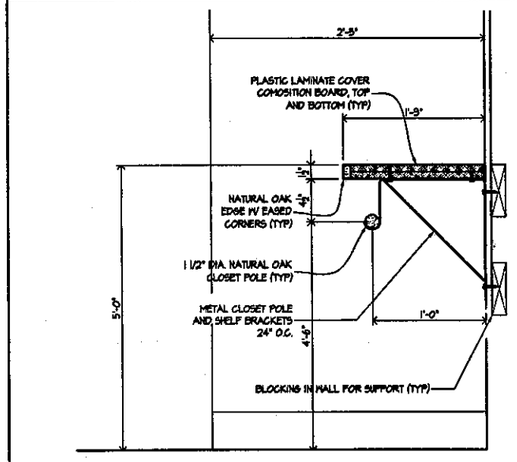


LAVATORY COUNTER

ID02	INTERIOR DETAIL
1 1/2" = 1'-0"	XID02.DWG



SINK BASE CABINET



ID08	INTERIOR DETAIL
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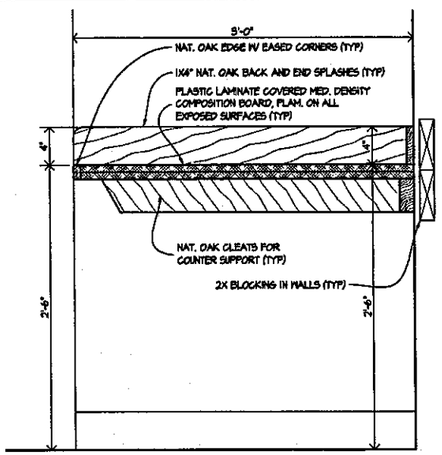

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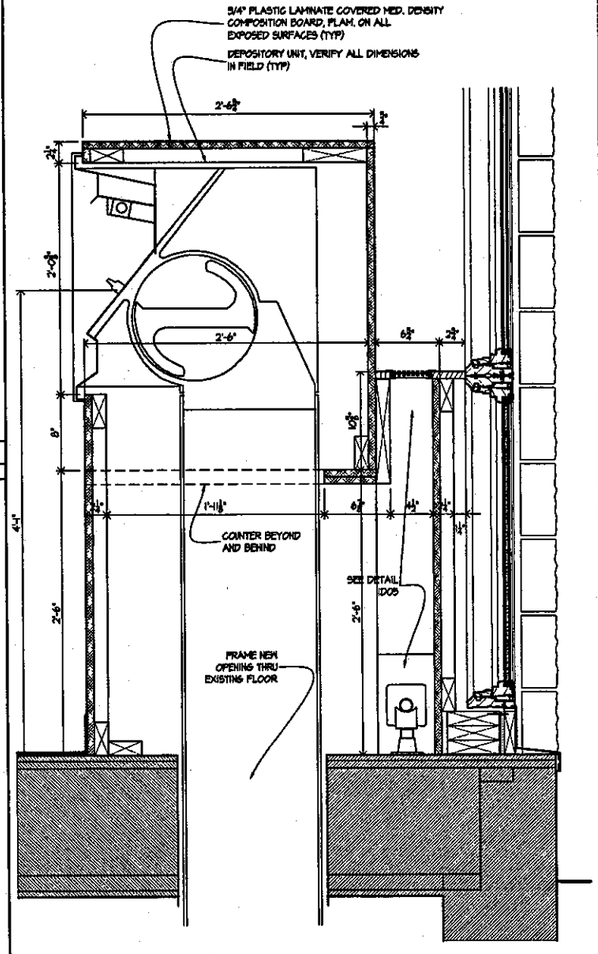

ID06	INTERIOR DETAIL
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ID05	INTERIOR DETAIL
1 1/2" = 1'-0"	XID05.DWG

BID SET: 6 AUGUST 1999

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				Drawn		
				Checked		
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Building Renovation And Expansion

DETAILS

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ARCHITECTS ENGINEERS PLANNERS

LASSEL ARCHITECTS
64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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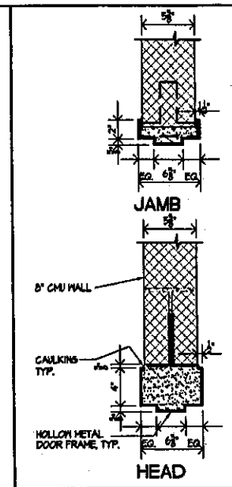
(METPK\BDR-01)



J6/H4	DOOR FRAME DETAIL
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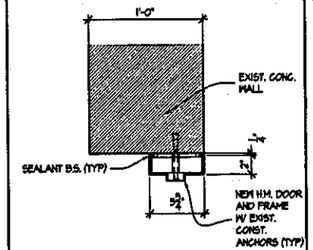

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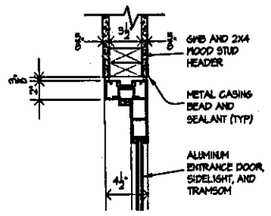

J4/H3	DOOR FRAME DETAIL
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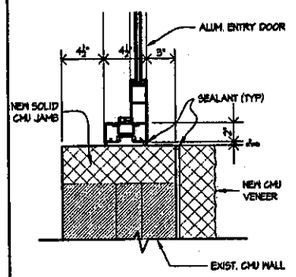

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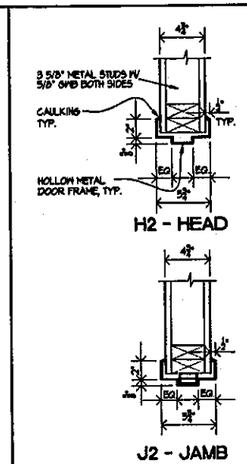
1 1/2" = 1'-0"	XJ3.DWG



J2/H2	DOOR FRAME DETAIL
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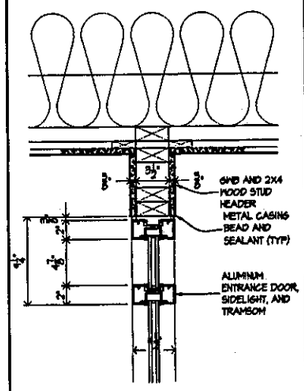

H1	DOOR FRAME DETAIL
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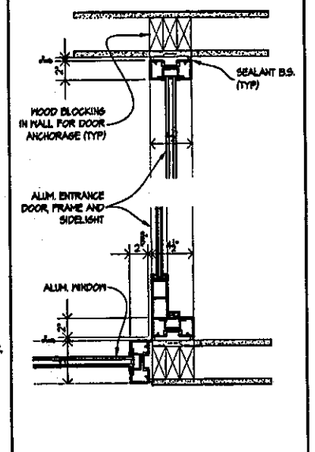

J1	DOOR FRAME DETAIL
1 1/2" = 1'-0"	XJ1.DWG

BID SET: 5 AUGUST 1999

No.	Revision	By	Date		By	Date
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DETAILS

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64 HIGHLAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

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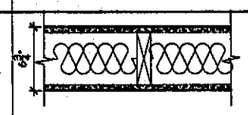
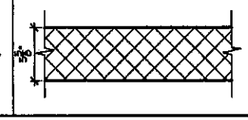
(METPK)BDR-01

WALL TYPE SCHEDULE

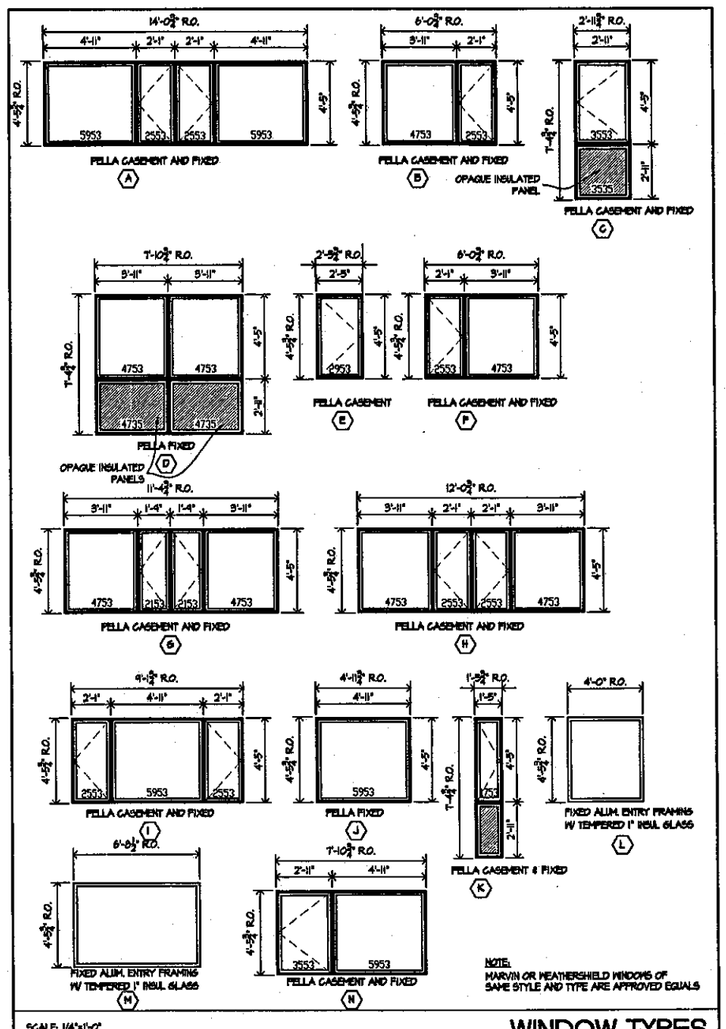
TYPE	PARTITION	DESCRIPTION	LABEL
1 / 1A		5/8" GWB PANELS - 2X4 WOOD STUDS 16" O.C. - PANELS APPLIED VERTICAL AND ATTACHED WITH 1" TYPE S-12 SCREWS 12" O.C. - JOINTS FINISHED - PERIMETER CAULKED - 3" SOUND ATTEN. FIRE BLANKETS 25" WIDE CREASED TO FIT CAVITY - RUN TO UNDERSIDE OF ROOF FRAMING	UL Des U319 1-HR. 1A
2		5/8" GWB PANELS - 2X6 WOOD STUDS 16" O.C. - PANELS APPLIED VERTICAL AND ATTACHED WITH 1" TYPE S-12 SCREWS 12" O.C. - JOINTS FINISHED - PERIMETER CAULKED - 3" SOUND ATTEN. FIRE BLANKETS 25" WIDE CREASED TO FIT CAVITY - RUN TO UNDERSIDE OF ROOF FRAMING	
3		6" CONCRETE MASONRY UNITS -BASEMENT SLAB TO UNDERSIDE OF FLOOR DECK ABOVE.	UL Des U777 1-HR.

DOOR SCHEDULE

LOC.	NO.	DOOR TYPE	DOOR SIZE	FRAME TYPE	LABEL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL		NOTES
BASEMENT	B01A	D	3'-0"XT-0"XI-3/4"	E	60 MIN.	J5	J5			
	B02A	G	3'-0"XT-0"XI-3/4"	E	45 MIN.	H4	J6			
	B03A	G	3'-0"XT-0"XI-3/4"	E	45 MIN.	H4	J6			
	B04A	D	3'-0"XT-0"XI-3/4"	E	60 MIN.	H4	J6			
	B06A	G	(2) 3'-0"XT-0"XI-3/4"	E	45 MIN.	H4	J6			
FIRST FLOOR	101A	A	3'-0"XT-0"XI-3/4"	A		*	**	***		* 2-8/A5.4, ** PD12, PD15/A5.5, *** 2-12/A5.4
	101B	A	3'-0"XT-0"XI-3/4"	A		H1	J3	S1		
	103A	B	3'-0"XT-0"XI-3/4"	D	45 MIN.	H2	J2			
	105A	B	3'-0"XT-0"XI-3/4"	D		H2	J2			
	106A	C1	3'-0"XT-0"XI-3/4"	D		H2	J2			
	107A	B	3'-0"XT-0"XI-3/4"	D		H2	J2			
	108A	B	3'-0"XT-0"XI-3/4"	D		H2	J2			
	109A	A	3'-0"XT-0"XI-3/4"	B		*	J5	**		* 9-1/A5.5, ** 3-2/A5.5
	111A	B1	3'-0"XT-0"XI-3/4"	D		H2	J2			

ROOM FINISHES

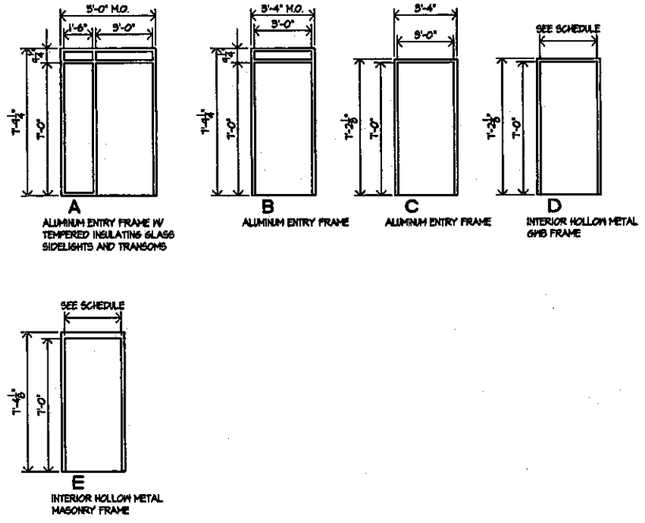
LOCATION	ROOM NUMBER	ROOM NAME	FLOOR: CARPET A	VCT B	NON-SLIP QUARRY TILE C	CONC. W/ SEALER D	RUBBER TREADS W/ ABR. NOSING E	EXISTING CONCRETE F	CERAMIC TILE G	BASE: 6" RUBBER - STRAIGHT A	4" RUBBER - COVE B	EXISTING C	NONE D	CERAMIC TILE E	WALLS MATERIAL: GYPSUM WALLBOARD A	CMU B	CONCRETE C	EXISTING CMU D	EXISTING CONCRETE E	EXISTING GYPSUM WALLBOARD F	WALLS FINISH: PAINT A	EPOXY PAINT B	CEILING MATERIAL: GYPSUM WALLBOARD A	EXISTING GYPSUM WALLBOARD B	MTG: SUSPENDED S	RECESSED R	DIRECT D	PIN: PAINT A	SUSPENSION HEIGHT	REMARKS
BASEMENT	B01	SITE MAINT. AND STORAGE				D							D								A		A			F	A		
	B02	GENERAL STORAGE						F				C	D			B				F	A			B			F	A		
	B03	DEPOSITORY						F				C	D			B				F	A			B			F	A		
	B04	STAIR		B			E	F			B					B			E		A		A	B			F	A		
	B05	EXISTING BASEMENT			D		E	F					D			B		D	E		A			B			F	A		
	B06	BOILER ROOM						F					D			B		D	E		A			B			F	A		
	B07	EXISTING GENERATOR ROOM						F					D					D	E					B			F			
	B08	EXISTING TUNNEL																												NO WORK THIS AREA
FIRST FLOOR	101	VEST.			C						B					A					A			A			F	A	
	102	LUNCH		B							B					A					A			A			F	A	
	103	STORAGE		B							B					A		D			A			A			F	A	
	104	CORR.		B							B					A		D			A			A			F	A	
	109	JAN.		B							B					A					A	B		A			F	A	
	106	TRANSPASS		B							B					A					A			A			F	A	
	107	MEN						G					E			A		D				B		A			F	A	
	108	WOMEN						G					E			A		D				B		A			F	A	
	104	COUNTING		B							B					A		D			A			A			F	A	
	110	CORRIDOR		B							B					A		D			A			A			F	A	
	111	OFFICE	A							A						A		D			A			A			F	A	



NOTE:
MARVIN OR WEATHERSHIELD WINDOWS OF SAME STYLE AND TYPE ARE APPROVED EQUALS

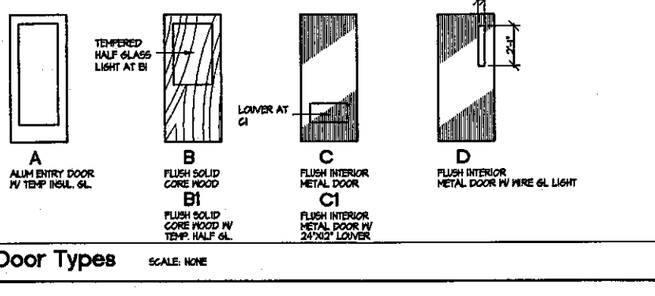
SCALE: 1/4"=1'-0"

WINDOW TYPES



Door FrameTypes

SCALE: NONE



Door Types

SCALE: NONE

BID SET: 5 AUGUST 1999

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SCHEDULES

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YORK TOLL PLAZA - 99.7

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A6.1

LASSEL ARCHITECTS
64 MAILAND AVENUE
SOUTH BERWICK, MAINE 03908 207.384.2049

Notes:

See project specifications for additional information

GENERAL

1. All Work shall conform to the requirements of all applicable state and local codes, including but not limited to:
   BOCA National Building Code 1996
   ANSI/ASCE 7-95
   ACI 318-95 'Building Code Requirements for Reinforced Concrete'
   ACI 301 'Specifications for Structural Concrete for Buildings'
   AISC Steel Construction Manual
   ANSI/AF&PA NDS 1997

   Any discrepancies between the above listed codes and the Construction Documents shall be brought to the attention of the Engineer for clarification before proceeding with affected Work.
2. All Work shall be performed by persons qualified in their trade and licensed to practice such trade in the state in which the project is located.
3. These drawings shall be used in conjunction with any Architectural, Mechanical and Electrical drawings in addition to Specifications and any Shop Drawings provided by Subcontractors and Suppliers.
4. All dimensions, elevations, and conditions shall be verified in the field by the General Contractor (G.C.) and any discrepencies shall be brought to the attention of the Engineer for clarification before proceeding with the affected part of the work.
5. Unless otherwise noted, details, sections, and notes shown on any Drawing shall be considered typical for all similar details.
6. These drawings do not show size, location or type of openings in the foundation system for electrical, plumbing or mechanical equipment. The General Contractor shall be responsible for locating of these items.
7. All Shop Drawings provided by others shall be submitted to the Engineer for review prior to fabrication of material or the purchase of non-returnable stock. Dimensional review is the Contractor's responsibility.

DESIGN LOADS

1. The structure is designed in accordance with BOCA 1996 to carry all Dead Loads of the various structural, architectural, mechanical and other systems and the following minimum Live Loads:

Floor Live Load	50 PSF
Basic Ground Snow Load	50 PSF
Wind Speed & Exposure	90 MPH, Exposure 'B'
Seismic	As= 0.12, Av= 0.12

SOIL BEARING

1. Structure shall be fully supported by piles and grade beams.
2. No grade beams shall be placed in water or on frozen ground. All exterior construction shall be carried down to a minimum of four (4) feet below finished, adjacent exterior grade.
3. G.C. shall provide subgrade materials as required by site conditions to perform as a working mat. G.C. shall de-water site as required.

CAST-IN-PLACE CONCRETE

1. All concrete work shall conform to "Building Code Requirements for Reinforced Concrete' (ACI 318-95), and "Specifications for Structural Concrete for Buildings" (ACI 301).
2. Interior slabs on grade to be of thickness shown on drawings with #4 bars each way at 12" o.c. top and bottom.
3. Provide "Moistop" (or 6 mil poly) vapor barrier under all interior slabs on grade. Overlap seams minimum 6" and tape as required to maintain position. (Moistop available @ A.H. Harris)
4. Minimum concrete protection for reinforcing steel shall be as follows:
   Concrete cast against earth: 3 inches
   Formed concrete exposed to earth or weather:
   1-1/2 inches for #5 bars and smaller
   2 inches for #6 bars and greater
5. Calcium chloride is prohibited in any concrete mix.
6. Concrete shall be adequately protected from hot or cold weather as required by ACI publications 305 and 306, respectively.
7. All concrete for walls, footings, and slabs shall obtain a minimum ultimate compressive strength of 4000 psi at 28 days. Cylinders shall be taken and tested in accordance with ACI recommendations.
8. Wall control joints shall be placed as shown on drawings or at a maximum of 40 ft. on center.
9. Backfill both sides of the foundation walls simultaneously to the maximum height possible.
10. All concrete shall be cured by an approved method as prescribed by ACI.

REINFORCING STEEL

1. All reinforcing, except as noted, shall be deformed bars conforming to ASTM A615 Grade 60.
2. All reinforcing shall be detailed in accordance with the latest ACI Detailing Manual and Specifications.
3. Where continuous bars are called for, indicated or required, they shall run continuously around corners, lapped at necessary splices, splices staggered and hooked at discontinuous ends. Lap lengths shall be as shown, or Min. 36 bar diameters.

WOOD FRAMING

1. All rough framing shall be No. 2 or better Spruce-Pine-Fir, unless otherwise specified or shown on the drawings.
2. All two (2) inch nominal lumber to be seasoned to 19% maximum moisture content.
3. All lumber and sheathing shall be grade-stamped by the appropriate manufacturer's association for the appropriate use.
4. All wood in contact with concrete, masonry or earth shall be pressure treated SYP with a CCA-C 0.40 process.
5. All wood framing shall be built plumb, level, square and true with adequate bracing and connection hardware to ensure a rigid structure.
6. Rough connections shall be accurately cut and tightly fitted as necessitated by the conditions encountered to provide full bearing without use of shims.
7. All sheathing shall be laid with long dimension perpendicular to supports, unless noted otherwise. Stagger all joints.
8. All sheathing shall be nailed 6" on center at supported panel edges and @ 12" on center at intermediate supports, unless otherwise shown or noted (specific shear walls & diaphragms).
9. All headers over six (6) feet in length shall rest on double stud posts as a minimum, unless otherwise noted on the drawings.
10. Simpson construction hardware (or approved equal) shall be fastened according to the manufacturer's specifications and nailing schedule.
11. Beams noted as 'PSL' shall be 'Parallam' as manufactured by Trus Joist McMillan (E=2,000,000 PSI, Fb=2900 PSI). Parallam products shall be adequately stored and covered at the job site to be protected from water damage prior to installation.
12. Unless noted otherwise, minimum fastening of wood members shall conform to Table 2305.2 of BOCA.
13. All plywood or OSB shall be APA rated and shall be adequately spaced at joints (1/8" typ) as required by APA for expansion. This includes roofs, walls, and floors.

MASONRY LOOSE LINTEL SCHEDULE (IF APPLICABLE)

1. Unless otherwise indicated on the drawings provide one angle, placed with long leg vertical, for each 4" of masonry thickness for all masonry openings in accordance with the following schedule.

Maximum Opening	Lintel
Up to 4'	L3-1/2 x 3-1/2 x 3/8"
3' 1" to 4' 6"	L4 x 3-1/2 x 3/8"
4' 7" to 6' 0"	L5 x 3-1/2 x 3/8"
6' 1" to 8' 0"	L6 x 3-1/2 x 3/8"
8' 1" to 11' 0"	L7 x 4 x 3/8"

2. All lintels shall be galvanized.
3. Lintels shall be 12" longer than masonry opening and shall have a minimum of 6" bearing on masonry at each end. Where lintel abuts a column provide a structural clip angle connection.

STEEL PILES

1) HP piles shall conform to ASTM A36.
2) The lateral tolerance for driven piles shall be no greater than 3" in any direction.
3) Piles shall be driven to refusal in bedrock at an estimated depth of 80 feet.
4) Minimum pile capacity shall be 20 Tons. (S.F. = 2.5)

STATE OF MAINE
JEFFREY S. MARROCCO
No. 6044
REGISTERED PROFESSIONAL ENGINEER
8/5/99

No.	Revision	By	Date	In Charge Of:
				By
				Designed
				Drawn
				Checked

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Building Renovation And Expansion

Structural Notes

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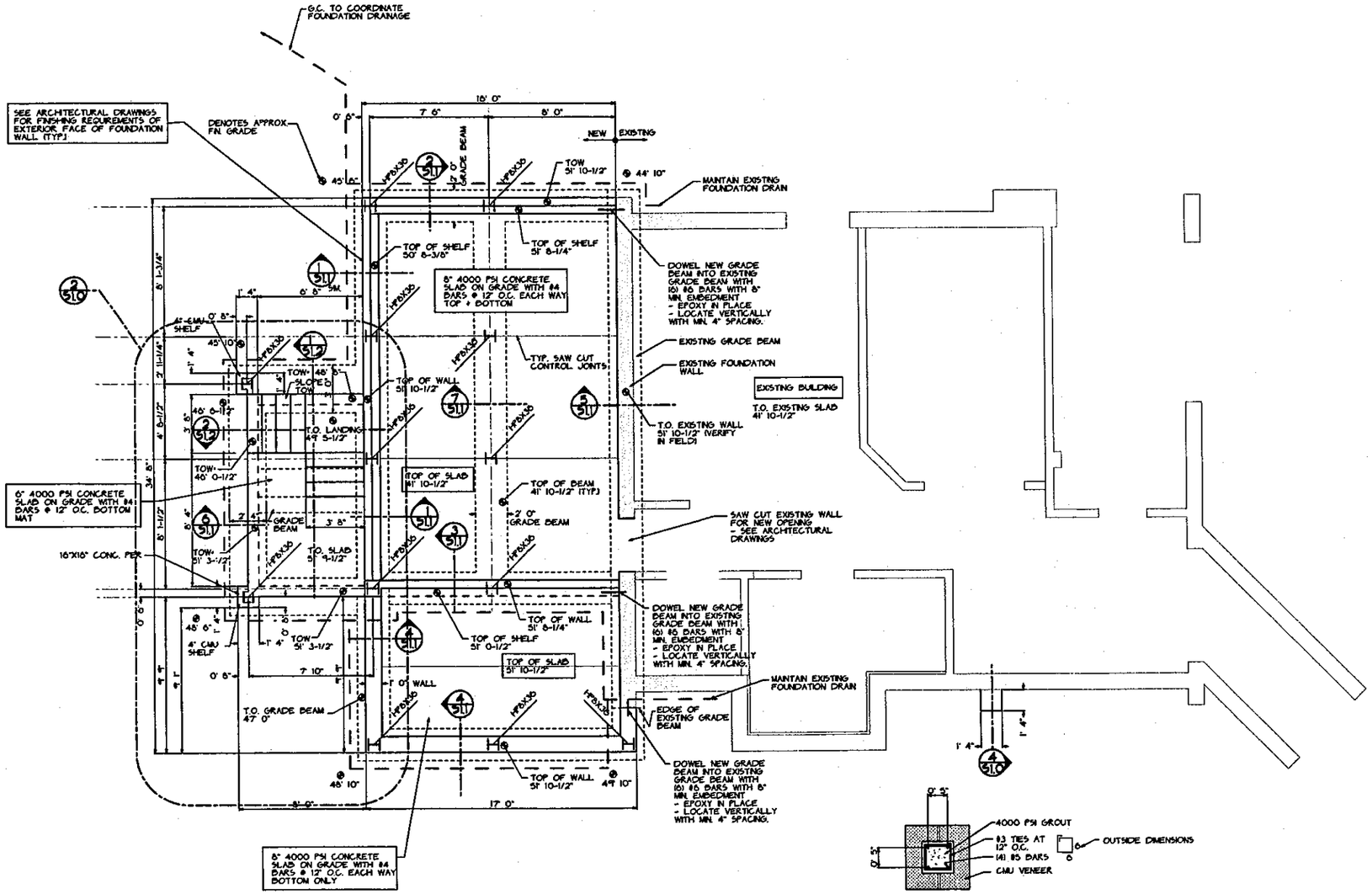
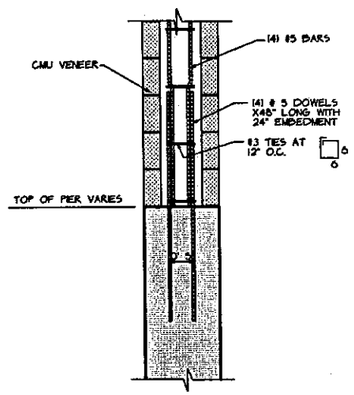
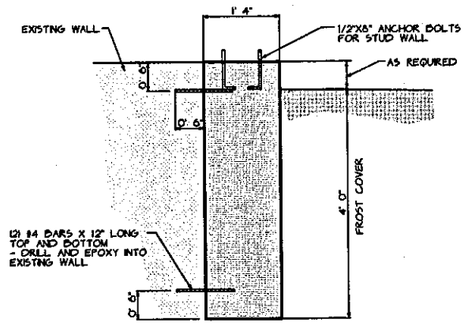
Sheet No.



1 S1.0 FOUNDATION PLAN
SCALE: 1/4"=1'-0"



3 S1.0 PIER SECTION
SCALE: 3/4"=1'-0"



4 S1.0 CONCRETE PIER
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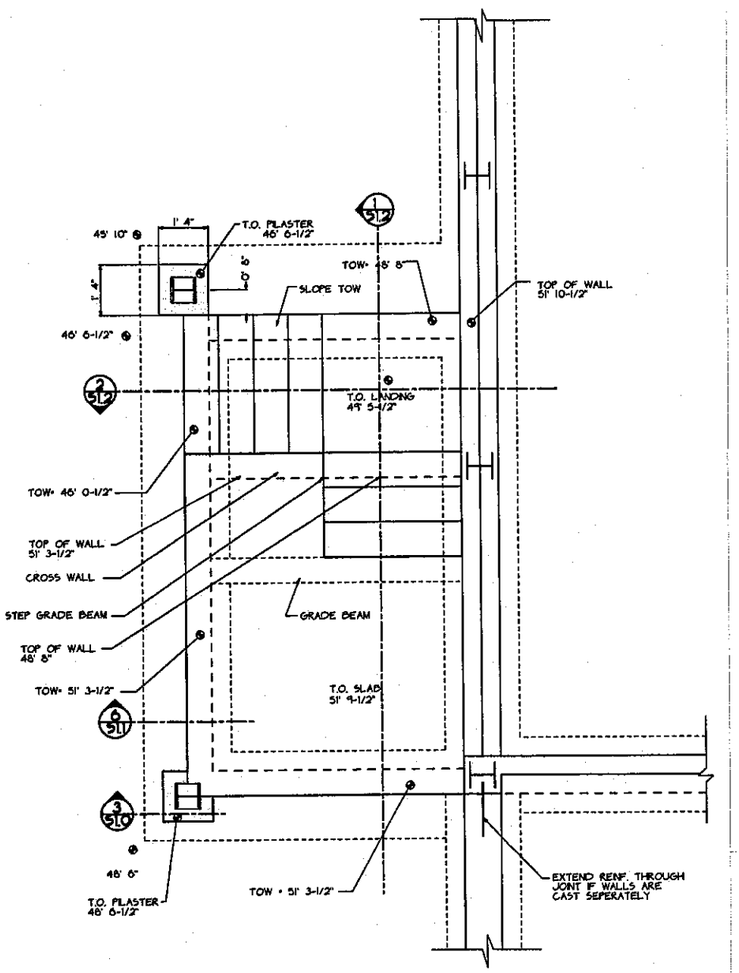

2 S1.0 ENLARGED STAIR PLAN
SCALE: 1/2"=1'-0"

JEFFREY S. HAWROCKI No. 8044 REGISTERED PROFESSIONAL ENGINEER
8/15/19

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Foundation Plan

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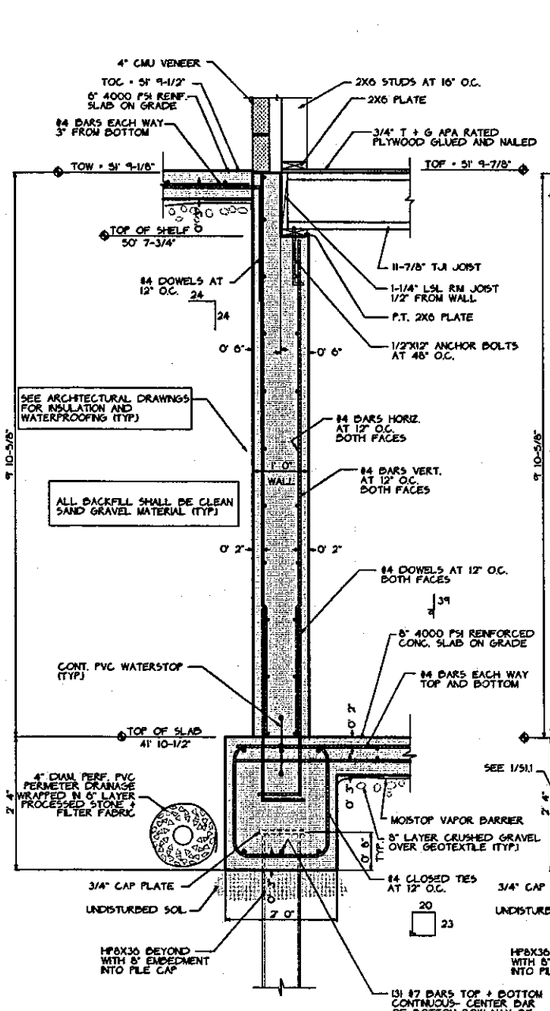
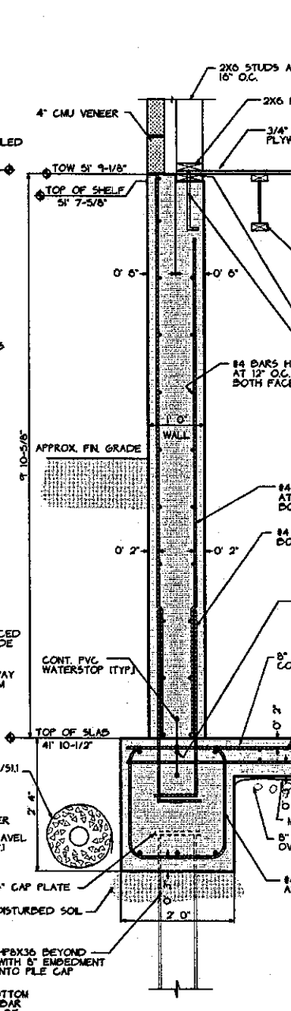
Sheet No. S1.0



1 S1.1 **WALL SECTION**
SCALE: 3/4"=1'-0"



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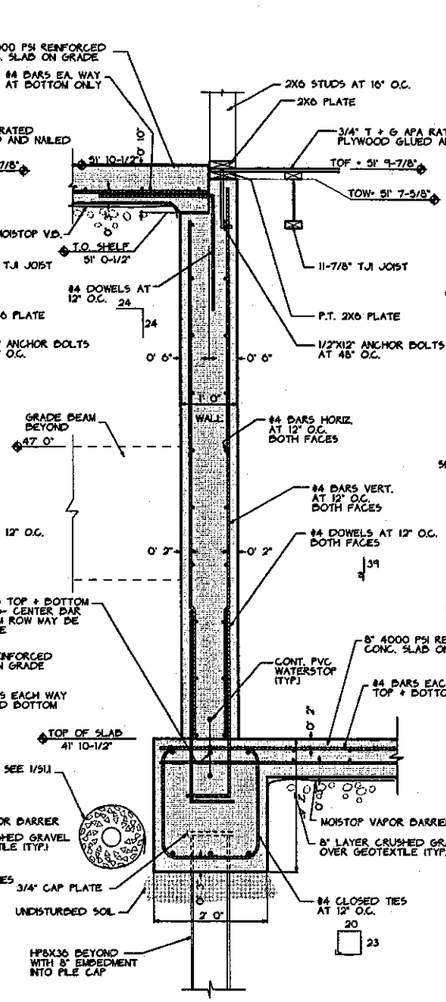

3 S1.1 **WALL SECTION**
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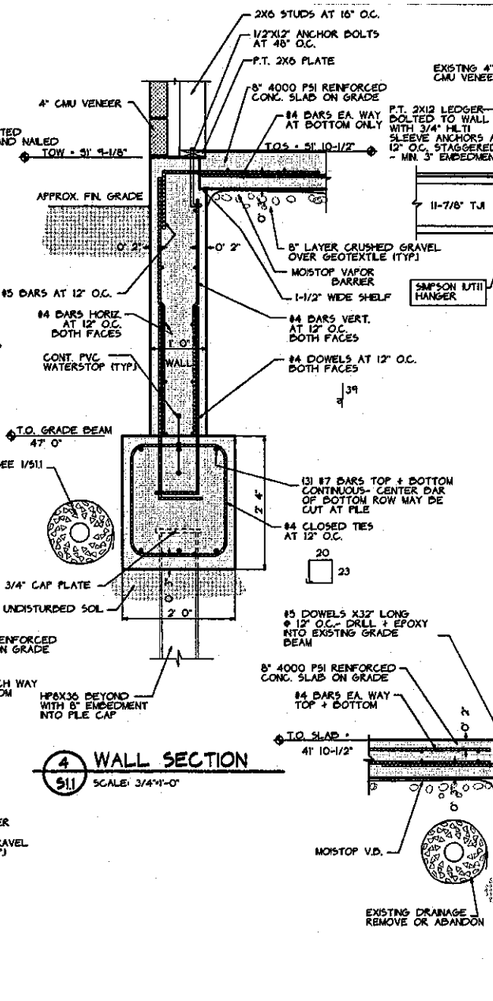

4 S1.1 **WALL SECTION**
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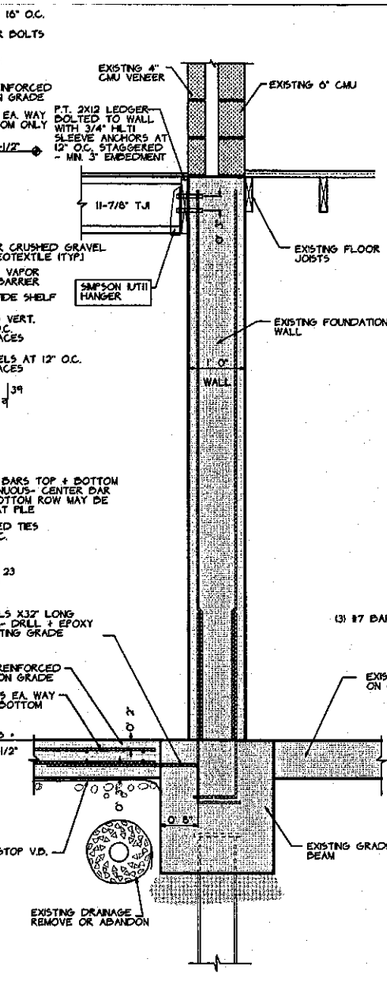
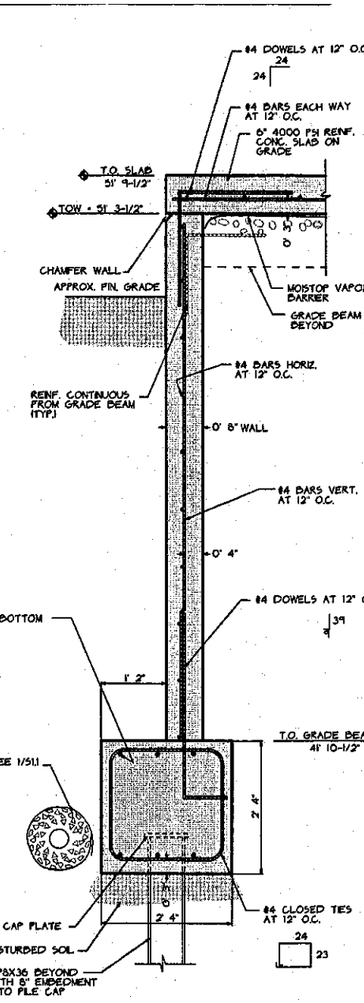
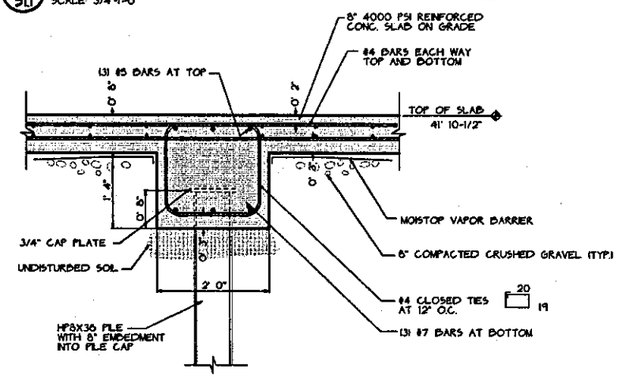


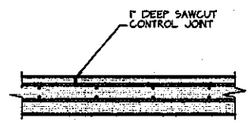
5 S1.1 **WALL SECTION**
SCALE: 3/4"=1'-0"



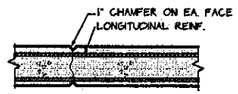
6 S1.1 **WALL SECTION AT STAIR**
SCALE: 3/4"=1'-0"



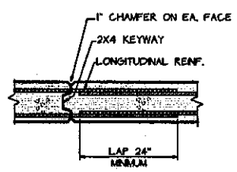
7 S1.1 **SECTION THRU GRADE BEAM**
SCALE: 3/4"=1'-0"



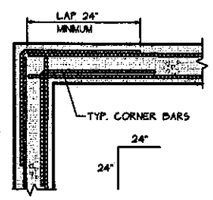
8 S1.1 **SLAB CONTROL JOINT**
SCALE: 3/4" = 1' 0"



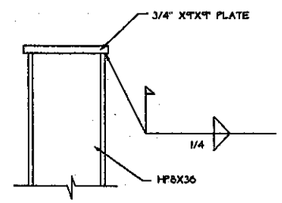
9 S1.1 **TYP WALL CONTROL JOINT**
NO SCALE



10 S1.1 **TYP WALL CONSTRUCTION JOINT**
NO SCALE



11 S1.1 **TYP WALL REINF. AT CORNERS**
NO SCALE



12 S1.1 **PILE CAP PLATE**
SCALE: 1-1/2" = 1' 0"

STATE OF MAINE
JEFFREY S. HAWKINS
No. 8044
REGISTERED PROFESSIONAL ENGINEER
8/5/99

No.	Revision	By	Date	In Charge Of		By	Date
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				Drawn			
				Checked			

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Foundation Details

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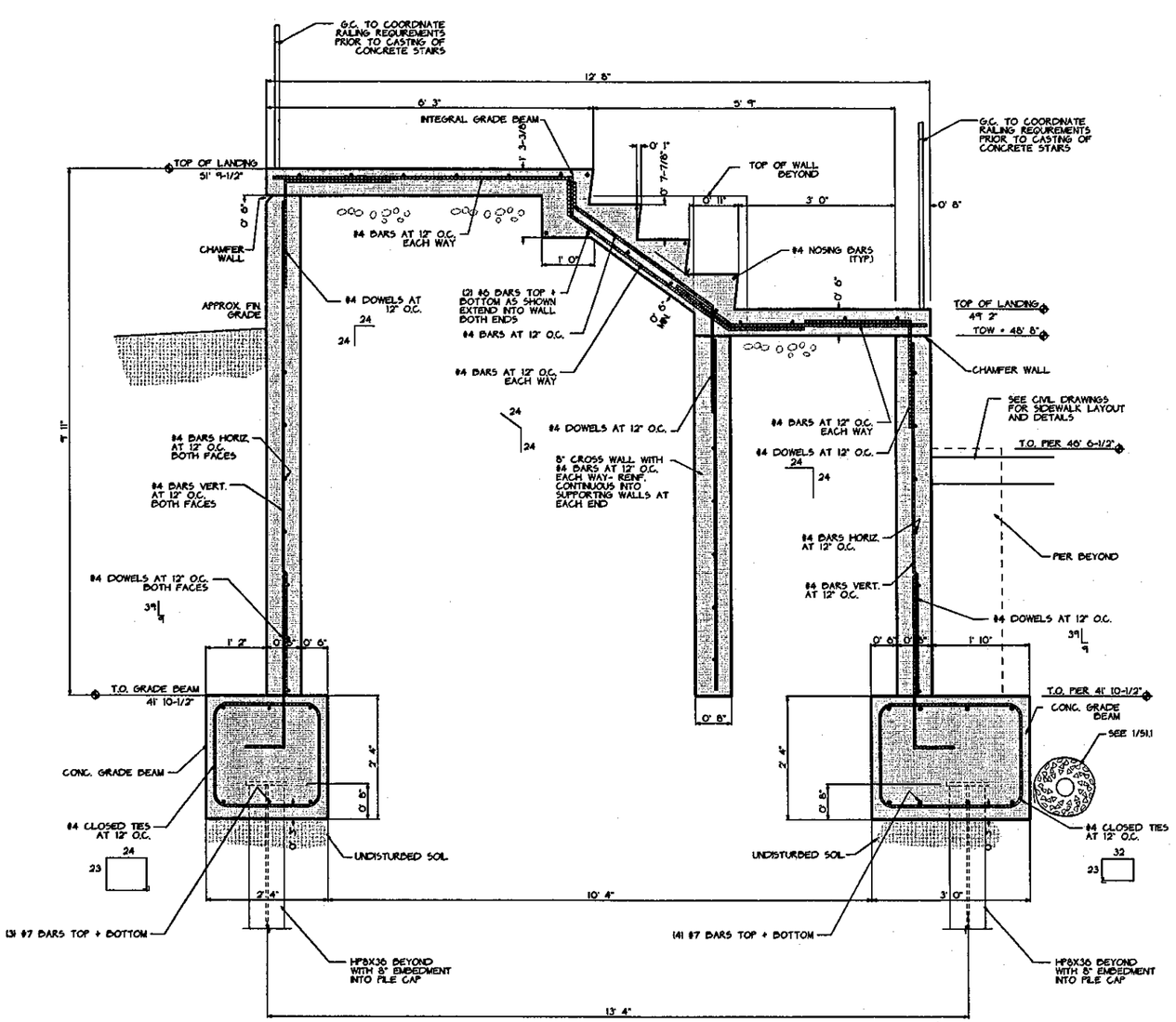
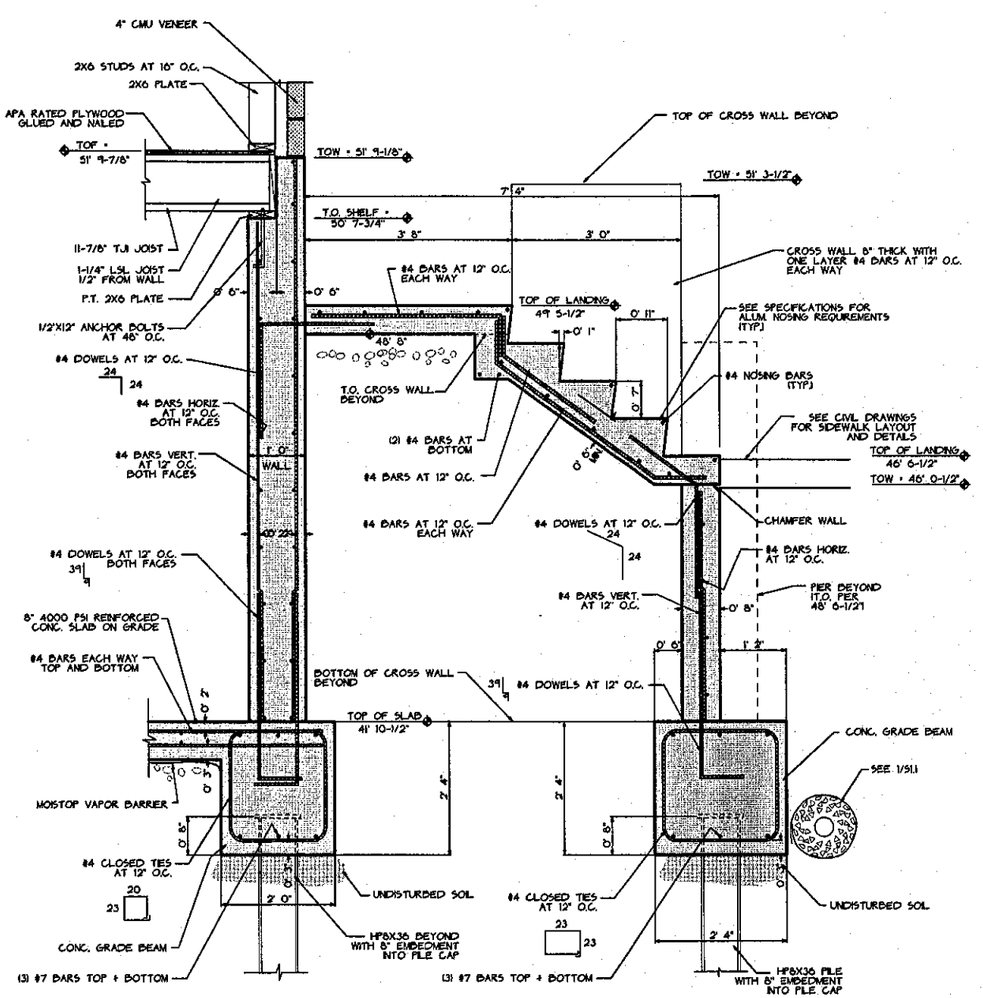


1 S1.2 CONCRETE STAIR SECTION
SCALE: 3/4"=1'-0"



2 S1.2 CONCRETE STAIR SECTION
SCALE: 3/4"=1'-0"

STATE OF MAINE
JEFFREY S. NAWROCKI
No. 6044
REGISTERED PROFESSIONAL ENGINEER
8/5/99

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Contract	Sheet No.	
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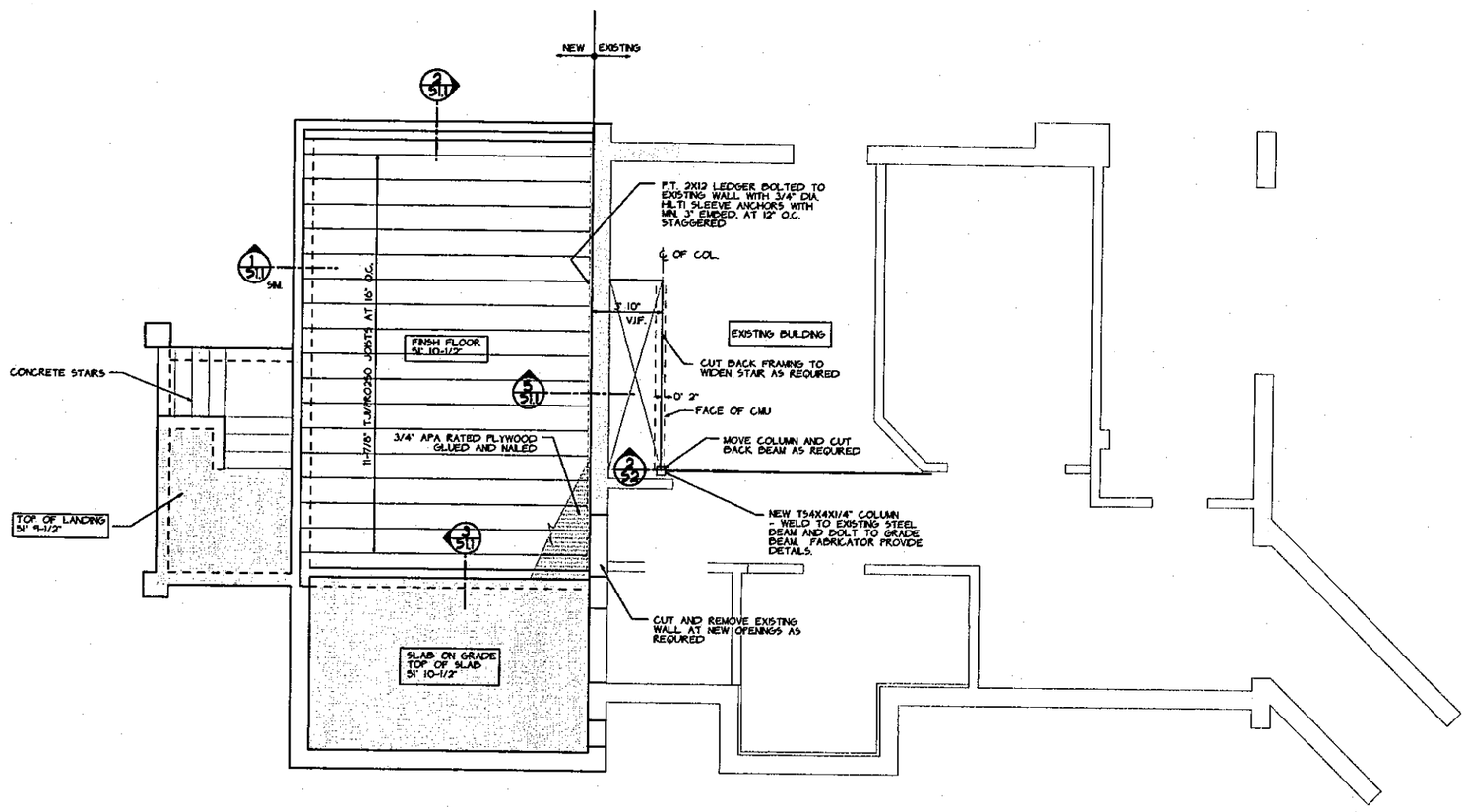
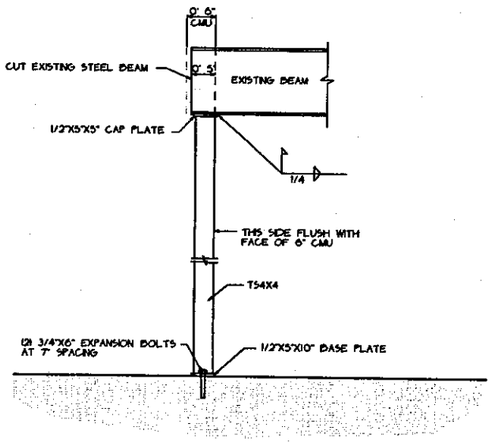


1/S2 FIRST FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



2/S2 STEEL COLUMN
SCALE: 3/4"=1'-0"

STATE OF MAINE
JEFFREY S. HAWKINS
No. 6044
REGISTERED PROFESSIONAL ENGINEER
8/5/99

No.	Revision	By	Date	In Charge Of:
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Building Renovation And Expansion

First Floor Framing Plan

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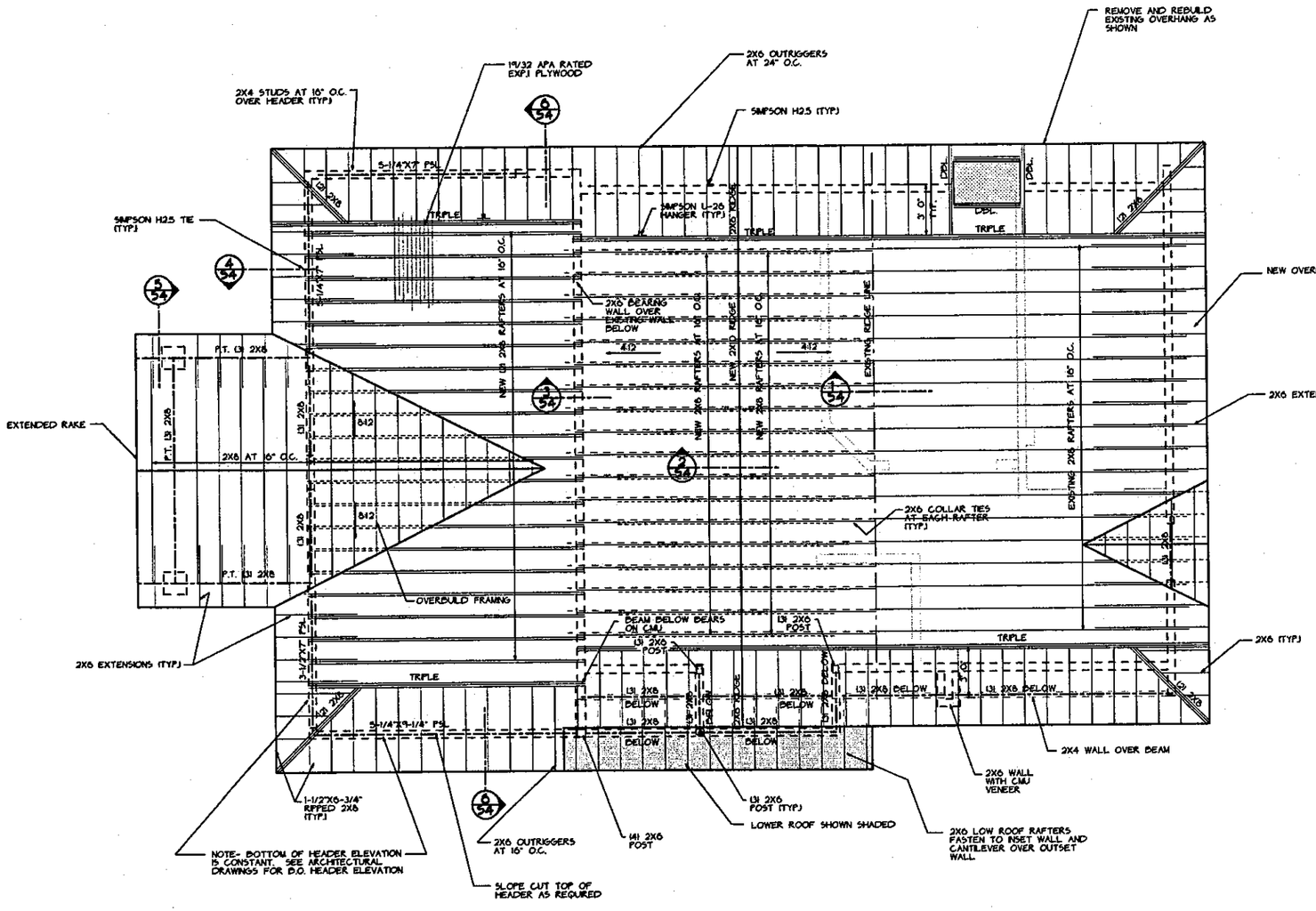
Sheet No. S2

NOTE- NEW ROOF FRAMING DOES NOT INCREASE LOADS ON EXISTING ROOF. EXISTING ROOF FRAMING DOES NOT MEET CURRENT DESIGN CRITERIA, BUT WILL REMAIN AS AN EXISTING CONDITION.

NOTE- USE SIMPSON U26-3 HANGERS WHERE TRIPLE 2X8 MEMBERS FLUSH FRAME.

WHERE NEW WOOD BEAMS BEAR ON EXISTING MASONRY WALLS, POCKET AS REQUIRED AND PROVIDE MIN. 3" BEARING ONTO 8" CMU WALLS



1/53 ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"

NOTE- ALL HEADERS > 6 FT. REST ON DOUBLE JACK STUD UNLESS NOTED OTHERWISE EXTEND TRIMMER STUD AND NAIL TO HEADER

STATE OF MAINE
JEFFREY S. MAWHOOD No. 10044
REGISTERED PROFESSIONAL ENGINEER
8/5/97

No.	Revision	By	Date		By	Date
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Building Renovation And Expansion

Roof Framing Plan

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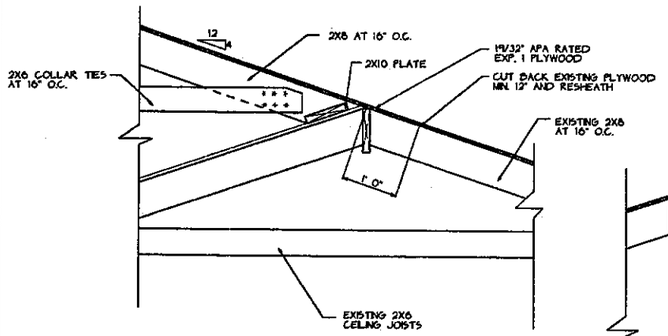
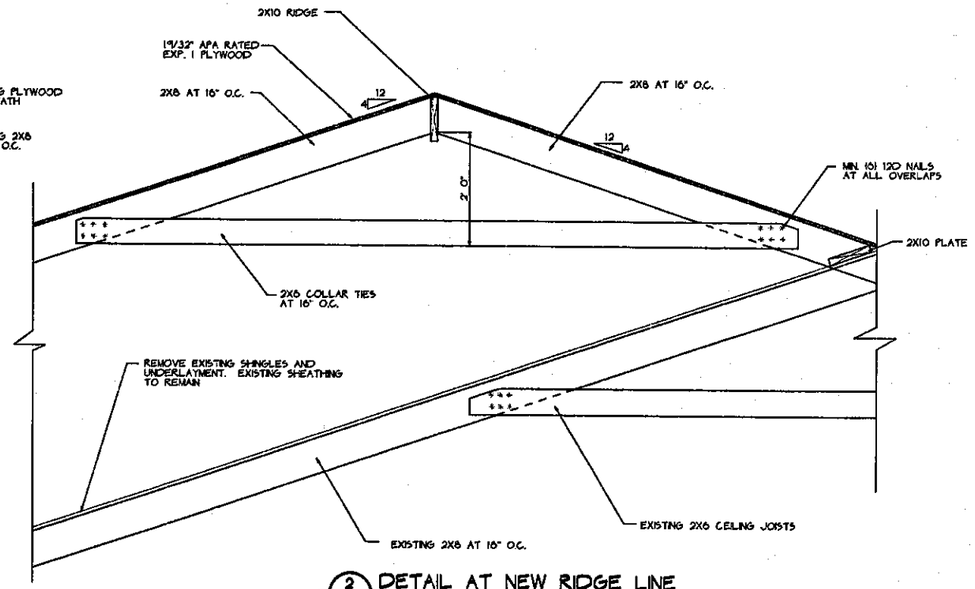
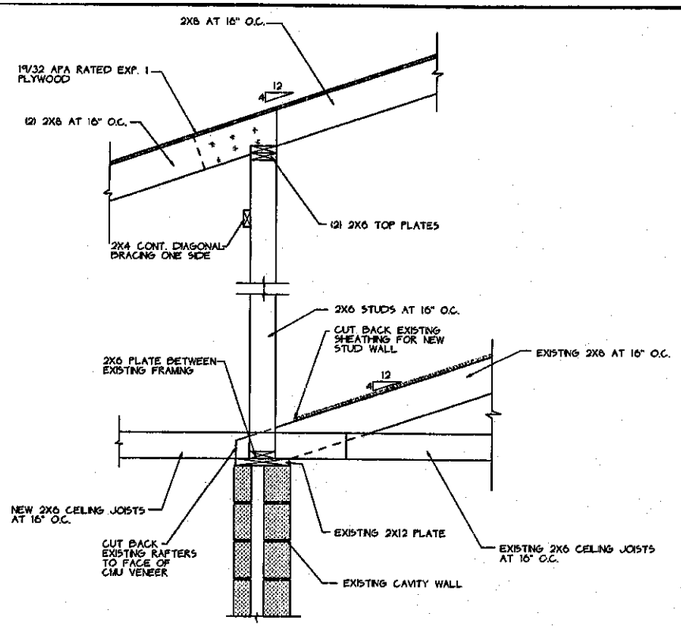
NOTE- G.C. VERIFY THICKNESS OF EXISTING ROOF SHEATHING. ADJUST NEW RAFTERS IF REQUIRED TO MAINTAIN TOP OF SHEATHING LEVEL.



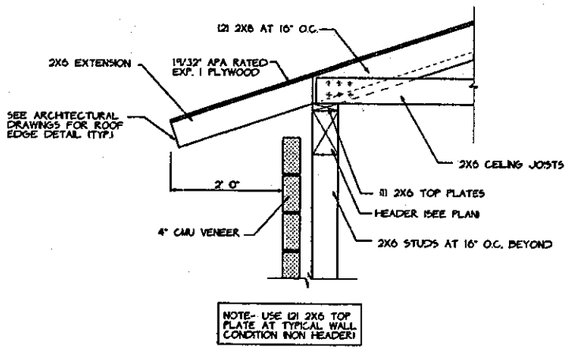
1 / S4 DETAIL AT EXISTING RIDGE LINE
SCALE: 3/4"=1'-0"



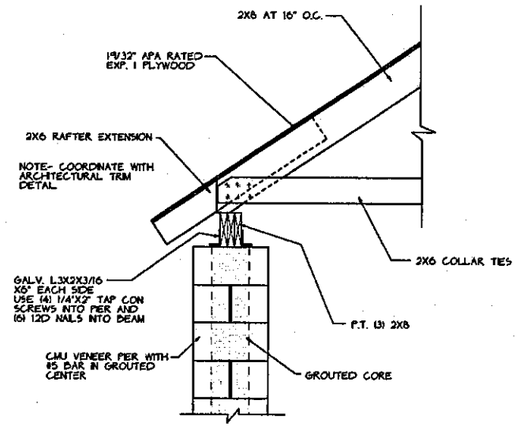
2 / S4 DETAIL AT NEW RIDGE LINE
SCALE: 3/4"=1'-0"



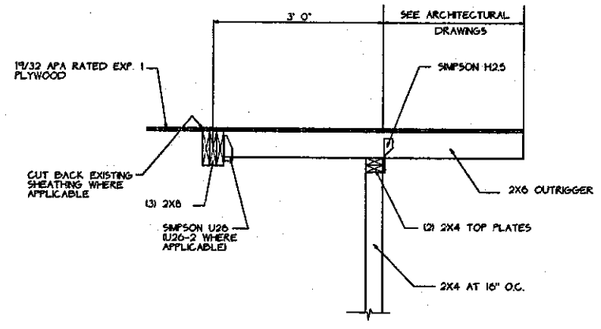
3 / S4 DETAIL AT EXISTING ROOF EDGE
SCALE: 3/4"=1'-0"



4 / S4 ROOF EDGE DETAIL AT HEADER
SCALE: 3/4"=1'-0"



5 / S4 ROOF EDGE DETAIL
SCALE: 3/4"=1'-0"



6 / S4 ROOF EDGE DETAIL
SCALE: 3/4"=1'-0"

STATE OF MAINE
JEFFREY S. HAWKROCKI
No. 6034
REGISTERED PROFESSIONAL ENGINEER
8/5/99

No.	Revision	By	Date		By	Date
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				Checked		
				In Charge Of		

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Building Renovation And Expansion

Framing Details

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ARCHITECTS ENGINEERS PLANNERS

Contract: York Toll Plaza

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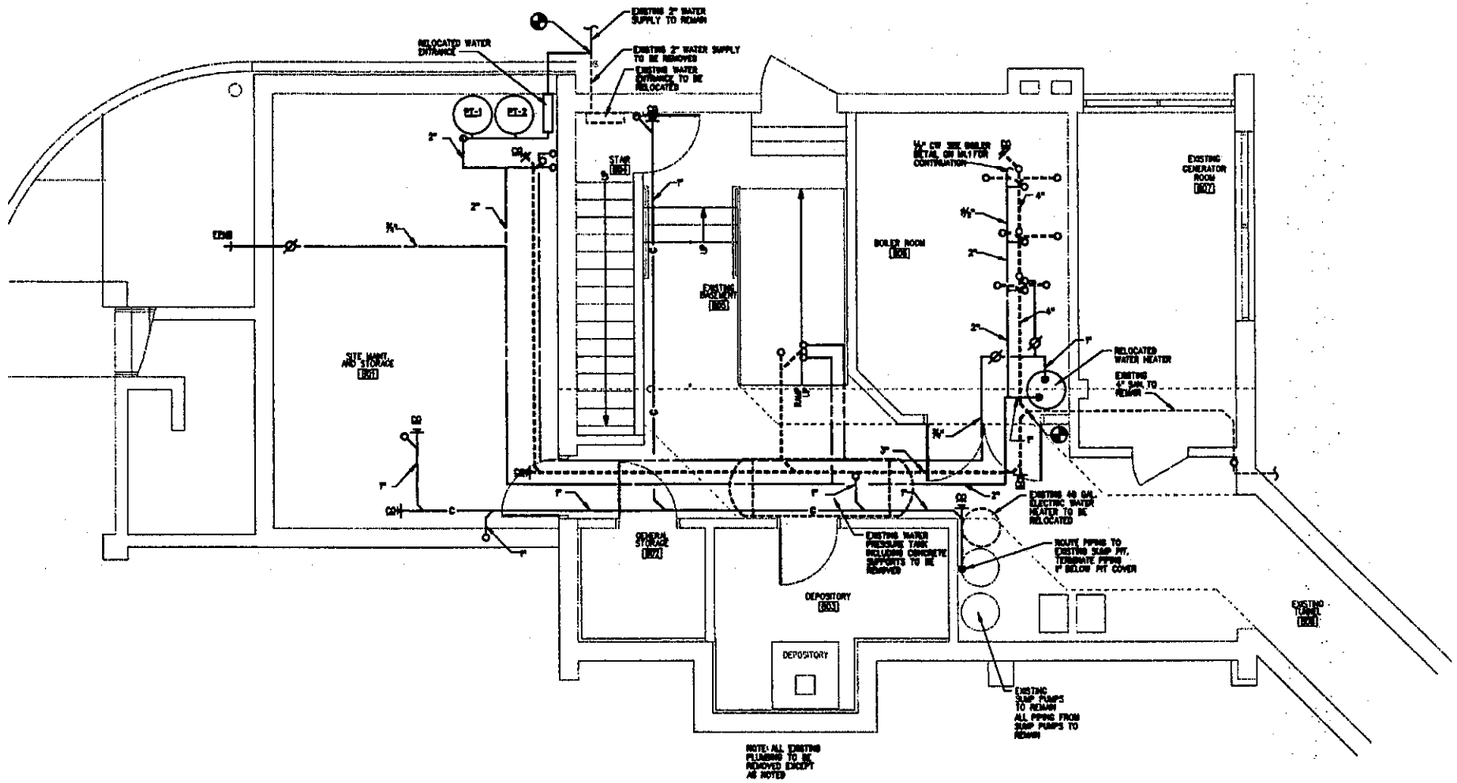
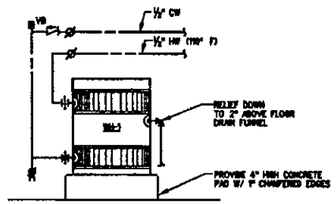
(METPK*BDR-01)

PRESSURE TANK PERFORMANCE SCHEDULE

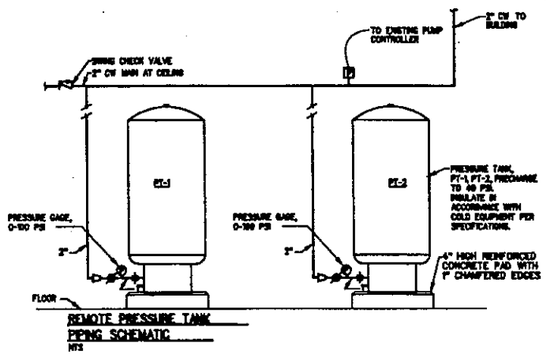
TAG	USE VOLUME GALLONS	MINIMUM WALL PSI	PRESSURE PSIG	SIZE	BASIS OF DESIGN MATRIX		
					MOUNTING	SERVICE	MODEL
PT-1	86	23.2	40/80	260 x 475x4	FLOOR	WELL	WX-302
PT-2	86	23.2	40/80	260 x 475x4	FLOOR	WELL	WX-302

REFERENCE NORTH





ELECTRIC WATER HEATER DETAIL
NTS



REMOTE PRESSURE TANK PIPING SCHEMATIC
NTS

STATE OF MAINE
WILLIAM S. BENNETT 2919
REGISTERED PROFESSIONAL ENGINEER

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 297
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No.	Revision	By	Date	In Charge Of:		
				Designed	SMW	11 Aug 99
				Drawn	SMW	11 Aug 99
				Checked	LWB	11 Aug 99

Maine Turnpike Authority
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BUILDING RENOVATION AND EXPANSION

BASEMENT PLUMBING PLAN

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ARCHITECTS ENGINEERS PLANNERS

Contract
YORK TOLL PLAZA - 99.7

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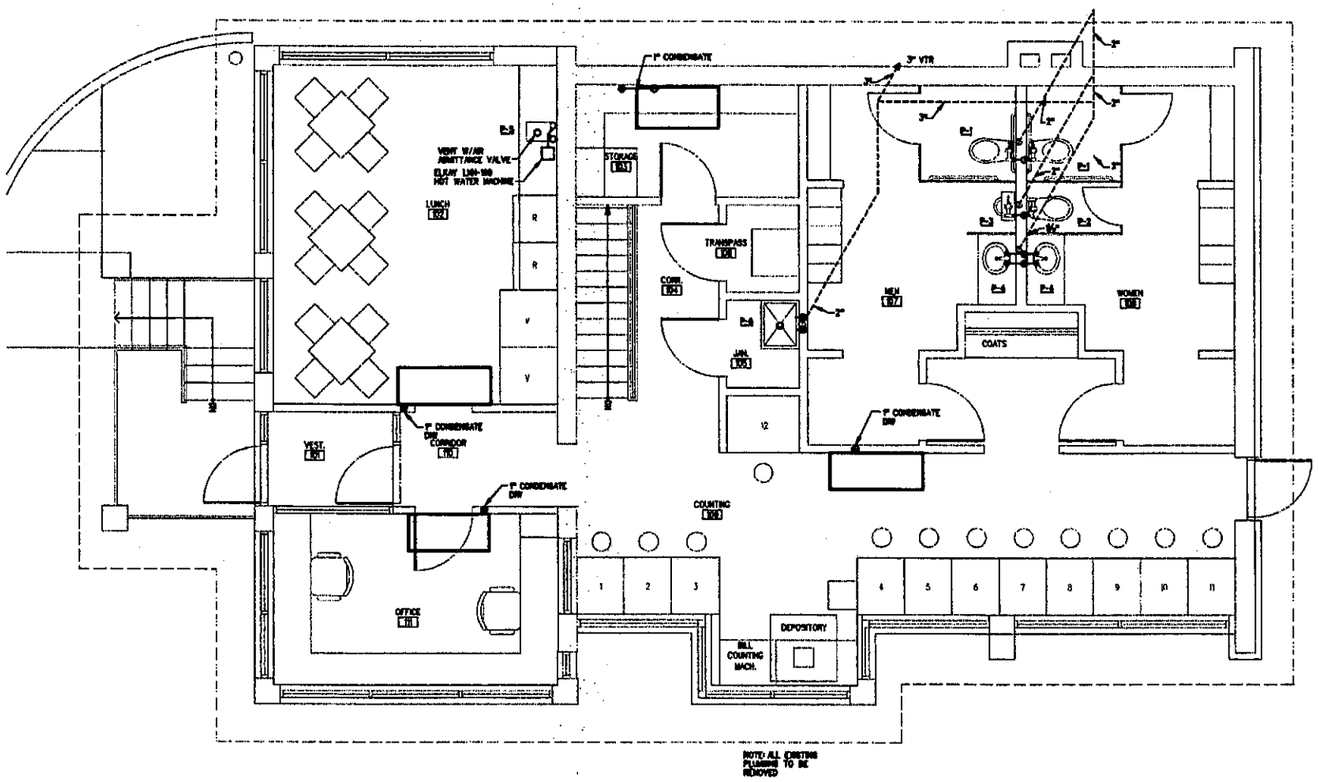
(METPK#BDR-01

PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	WC FLR MTD WC	3"	2"	¾"	-
P-2	FLR MTD WC	3"	2"	¾"	-
P-3	WH URINAL	2"	1¼"	¾"	-
P-4	COUNTERTOP LAVATORY	1¼"	1¼"	½"	½"
P-5	KITCHEN SINK	1½"	1½"	½"	½"
P-6	SERVICE SINK	3"	2"	¾"	¾"



No.	Revision	By	Date	In Charge Of:	By	Date
				Designed	JMV	9 Aug 99
				Drawn	JMV	9 Aug 99
				Checked	WSB	9 Aug 99

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BUILDING RENOVATION AND EXPANSION

FIRST FLOOR PLUMBING PLAN

HNTB
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Contract
YORK TOLL PLAZA - 99.7

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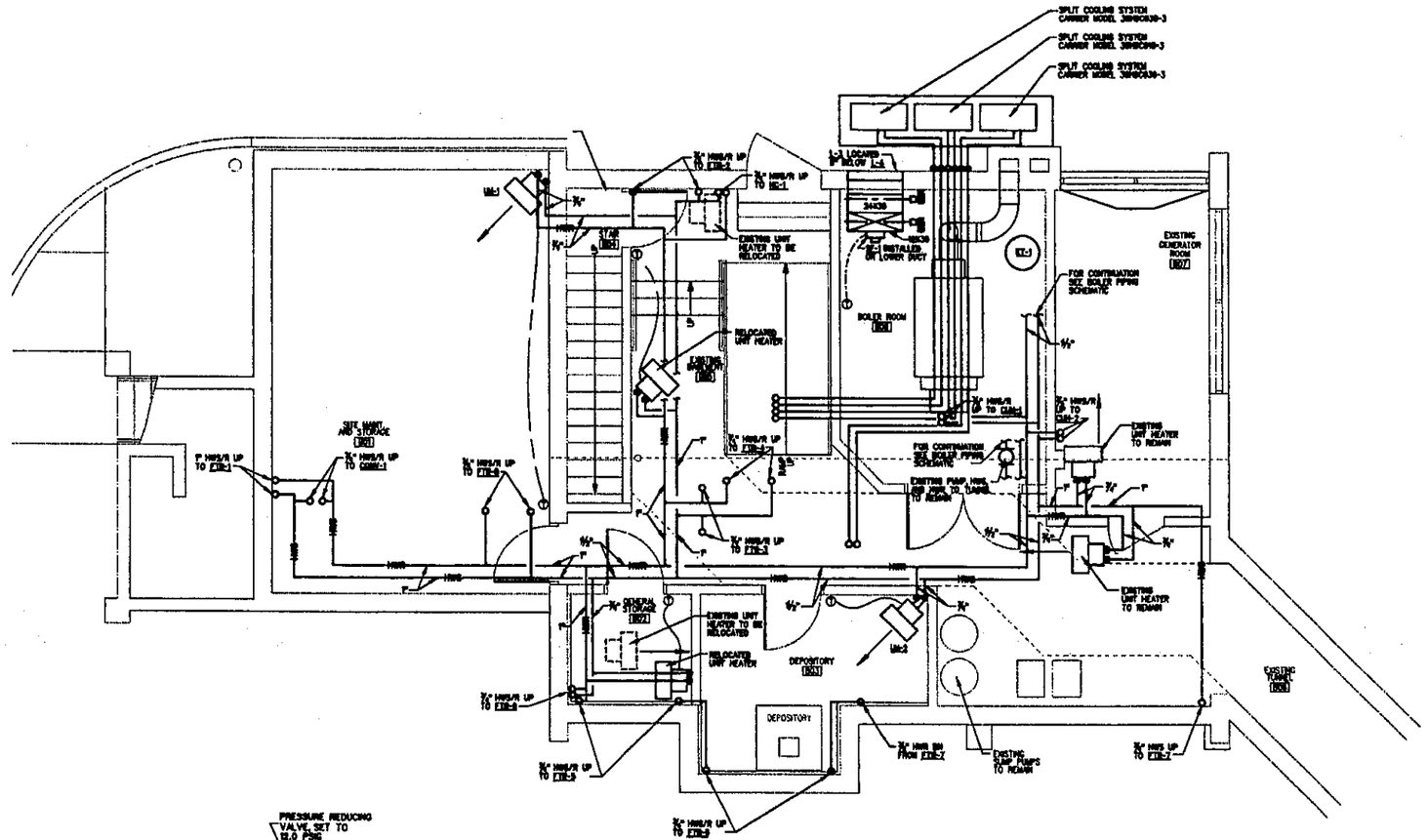
33 OF 38

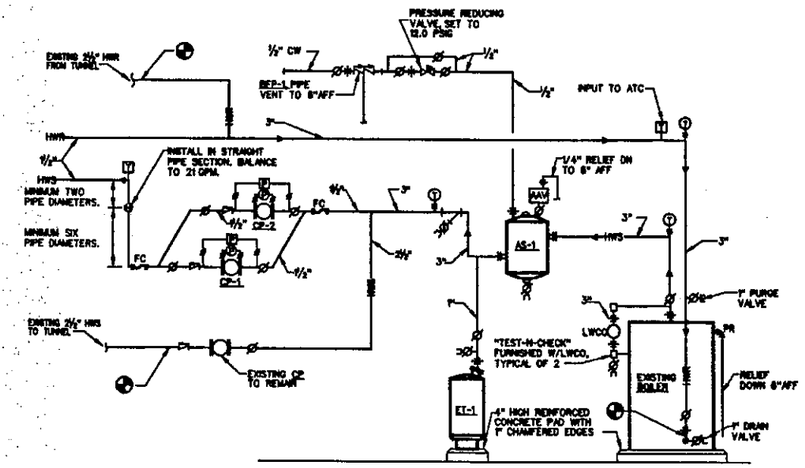
P1.2

STATE OF MAINE
WILLIAM S. BENNETT
2919
REGISTERED PROFESSIONAL ENGINEER

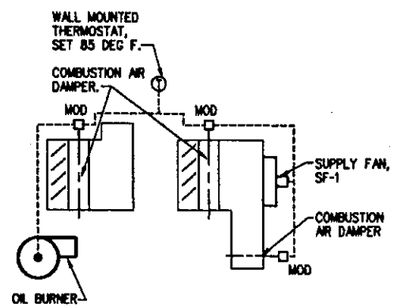
BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 297
FREEPORT, MAINE 04032
(207) 865-9475

(METPK#BDR-01)





BOILER PIPING SCHEMATIC
NTS



COMBUSTION AIR DAMPER/ BOILER ROOM VENTILATION CONTROL SCHEMATIC
NTS

BFP PERFORMANCE SCHEDULE

** BODY STYLE DESIGNATING REFERENCES ARE AS FOLLOWS: DCA = DOUBLE CHECK VALVE ASSEMBLY; RPDA = REDUCED PRESSURE PRINCIPLE ASSEMBLY; DCDA = DOUBLE CHECK DETECTOR ASSEMBLY; DCVA = DOUBLE CHECK VALVE ASSEMBLY WITH ATMOSPHERIC VENT; DCVDA = DOUBLE CHECK VALVE ASSEMBLY WITH DETECTOR; RPVBA = REDUCED PRESSURE ZONE VALVE BELOW VALVE.

TAG	SIZE	H2O FLOW (GPM)	W.P.D (PSI)	MINIMUM WATER TEMPERATURE (DEGREES F)	MAXIMUM WATER PRESSURE PSI	TESTABLE? (Y) OR (N)	BASIS OF DESIGN: WILKINS		
							BODY STYLE*	SERVICE	MODEL
BFP-1	1½"	8.0	7.9	210	175	N	DCA	BOILER FEED	750

UNIT HEATER PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F ENTERING WATER & 60°F ENTERING AIR TEMPERATURE

TAG	MBH	H2O FLOW (GPM)	W.P.D (FT.WG)	AIRFLOW (CFM)	THROW	MTG.HT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: STERLING		
							HP	WATTS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
UH-1	7.4	1.0	1.0	386	20	8	-	9	115/1/60	SITE MAINT	HORIZ	HS-18
UH-2	8.2	1.0	1.0	246	20	8	-	9	115/1/60	DEPOSITORY	HORIZ	HS-108A

AIR SEPARATOR PERFORMANCE SCHEDULE

TAG	H2O FLOW (GPM)	W.P.D (FT.WG)	Cv FACTOR	STRAINER (Y) OR (N)	MINIMUM WATER TEMPERATURE (DEGREES F)	MAXIMUM WATER PRESSURE PSI	BASIS OF DESIGN: SPIROVENT		
							SERVICE	PIPE SIZE	MODEL
AS-1	88	.417	220	N	270	150	HWS/R	3"	SENTRY

HEAT RECOVERY VENTILATOR PERFORMANCE SCHEDULE

BASIS OF DESIGN: BOSSAIRE

TAG	EXHAUST AIR (CFM)	SUPPLY AIR (CFM)	EXHAUST E.S.P (IN.WG)	SUPPLY E.S.P (IN.WG)	HX AREA (SF)	EFF. %	ELECTRICAL REQUIREMENTS				MODEL
							EF HP	SF HP	FLA	V/PH/HZ	
HRU-1	396	396	0.80	0.80		75	½	½	19	115/1/60	ERV-500

CONVECTOR/FTR PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F AVERAGE WATER & 60°F ENTERING AIR TEMPERATURE

TAG	OUTPUT (MBH)	H2O FLOW (GPM)	MOUNT'G. HEIGHT+	ENCLOSURE HEIGHT+	ENCLOSURE LENGTH(FT)	ELEMENT LENGTH(FT)	BASIS OF DESIGN: STERLING			
							TUBE SIZE (IN)	FIN SIZE	FINS/FT	MODEL
CONV-1	10	1.0	8	30	52	-	-	-	-	SBA-430
FTR-1	37.8	4.0	24	30	30	28	¾	4"X4 3/4"	40	JVR-530
FTR-2	4.8	1.0	18	14	4	3	¾	4"X4 3/4"	40	JVR-314
FTR-3	6.9	1.0	18	14	3	2	¾	4"X4 3/4"	40	JVR-314
FTR-4	6.2	1.0	18	14	3	2	¾	4"X4 3/4"	40	JVR-314
FTR-5	4.0	2.5	18	14	8	5	¾	4"X4 3/4"	40	JVR-314
FTR-6	4.8	2.5	18	14	7	6	¾	4"X4 3/4"	40	JVR-314
FTR-7	16.8	2.5	18	14	18	18	¾	4"X4 3/4"	40	JVR-314
FTR-8	2.0	1.0	18	14	3	2	¾	4"X4 3/4"	40	JVR-314
FTR-9	16.8	1.5	18	14	28	20	¾	4"X4 3/4"	40	JVR-314

EXPANSION TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	MINIMUM SYSTEM VOLUME (GALLONS)	MINIMUM WATER TEMPERATURE (DEGREES F)	MAXIMUM WATER PRESSURE PSI	WEIGHT (LBS)	BASIS OF DESIGN: TACO		
							MOUNTING	SERVICE	MODEL
ET-1	87	31	20.3	240	150	518	FLOOR	HWS/R	CAN-218

HEATING COIL PERFORMANCE SCHEDULE

* - OUTPUT BASED ON HEATING CFM
** - BASED ON 180°F ENT. WATER TEMPERATURE

TAG	OUTPUT (MBH)*	H2O FLOW (GPM)**	W.P.D (FT.WG)	MTG.AIR FLOW (CFM)	MAX. AIR FLOW (CFM)	MAX.A.P.D (IN.WG)	E.A.T (DEGREES F)	L.A.T (DEGREES F)	SERVICE
HC-1	14.99	1	.41	386	386	.06	60	75	SUPPLY AIR

AIR DEVICE PERFORMANCE SCHEDULE

TAG	SIZE	AIRFLOW (CFM)	SP.LOSS (IN.WG.)	THROW(L)	THROW(S)	Nc	BASIS OF DESIGN: KRUEGER		
							DUCT CONNECTION	PATTERN	MODEL
(A)	6X6	90	.016	2-5-12	-	C20	6X6	22.5° DEFLECT	380V
(B)	12X6	200	.038	8-12-20	-	C20	12X6	22.5° DEFLECT	580V
(AA)	12X6	150	.060	-	-	C28	12X6	30° DEFLECT	396RH
(BB)	6X6	50	.004	-	-	C20	6X6	30° DEFLECT	396RH

LOUVER PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	SP LOSS (IN.WG)	AIR VEL. (FPM)	SIZE (HxW) (INCHES)	FREE AREA (SQ.FT)	DRAINABLE? (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN: AMERICAN WARMING AND VENTILATION	
								SERVICE	MODEL
L-1	386	.030	886	24x12	0.70	Y	38°, 4"	SUPPLY	LE-33
L-2	386	.030	386	24x12	0.70	Y	38°, 4"	BUILDING EXHAUST	LE-33
L-3	292	.01	98	24x36	2.98	Y	38°, 8"	COMBUSTION	LE-31
L-4	292	.01	98	24x36	2.98	Y	38°, 8"	BLR RM EXHAUST	LE-31

CABINET UNIT HEATER PERFORMANCE SCHEDULE

HEATING PERFORMANCE BASED ON 180°F ENTERING WATER & 60 F ENTERING AIR TEMPERATURE

TAG	MBH	H2O FLOW (GPM)	W.P.D (FT.WG)	AIRFLOW (CFM)	THROW	MTG.HT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN: STERLING		
							HP	WATTS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CUH-1	9.3	1.0	.66	170	-	9'-0"	-	46	115/1/60	MENS ROOM	SIDE-RECESSED	RF-130
CUH-2	18.8	1.5	.88	170	-	9'-0"	-	46	115/1/60	WOMENS ROOM	SIDE-RECESSED	RF-130

FAN PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	T.S.P (IN.WG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: COOK		
						HP	BHP	WATTS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
SF-1	292	.5	8.2	1442	DIRECT	½	-	78.31	120/1/60	BOILER ROOM	WALL/DUCT	BOWSIXH

PUMP PERFORMANCE SCHEDULE

TAG	H2O FLOW (GPM)	HEAD (FT.WG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN: TACO		
						HP	BHP	WATTS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CP-1	21	20	4.8	1750	44	V3	½	-	115/1/60	HWS/R	INLINE	1811
CP-2	21	20	4.8	1750	44	V3	½	-	115/1/60	HWS/R	INLINE	1811

NOTE: ALL EXISTING PIPING TO BE REMOVED EXCEPT AS NOTED

NOTE: EXISTING EXPANSION TANK TO BE REMOVED

NOTE: REMOVE EXISTING PIPING BACK TO THE BOILER HEADER EXCEPT AS NOTED

STATE OF MAINE — WILLIAM A. BENNETT 2919 — REGISTERED PROFESSIONAL ENGINEER

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 297
FREEPORT, MAINE 04032
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No.	Revision	By	Date	In Charge Of:
				By / Date
			Designed	JAW / 9/2005
			Drawn	JAW / 9/2005
			Checked	WKS / 9/2005

Maine Turnpike Authority
Maine Turnpike

Trans pass

BUILDING RENOVATION AND EXPANSION

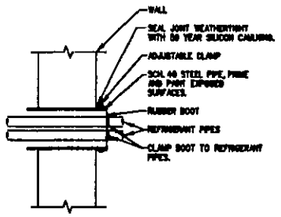
BASEMENT MECHANICAL PLANS

HNTB
ARCHITECTS ENGINEERS PLANNERS

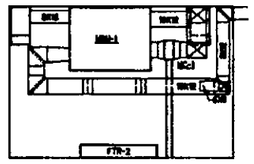
Contract: YORK TOLL PLAZA - 99.7

Sheet No.: 34 OF 38

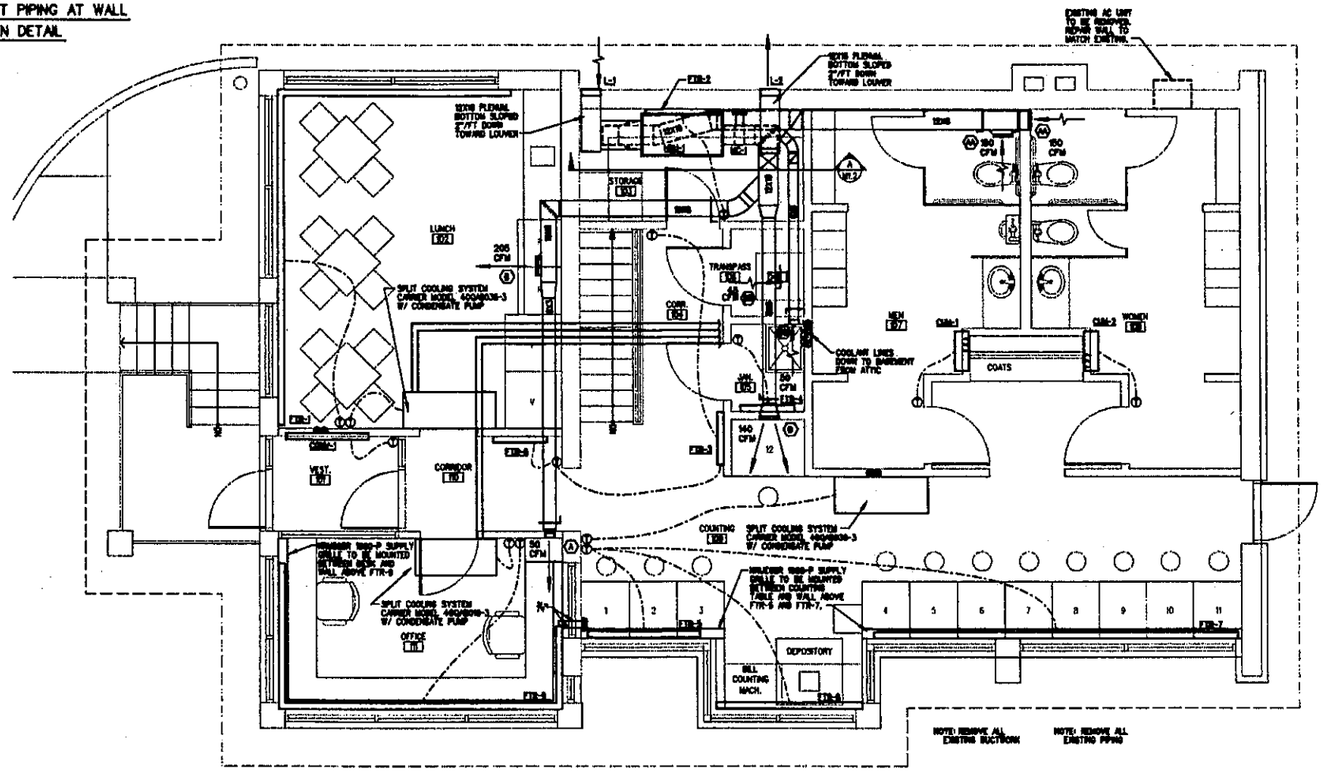
M1.1

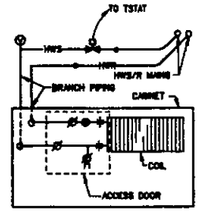


REFRIGERANT PIPING AT WALL PENETRATION DETAIL
NTS

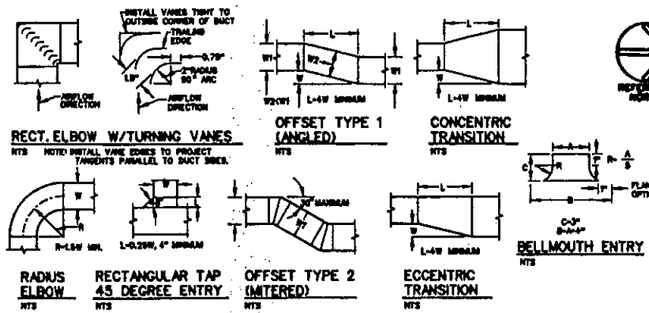


SECTION 'A'

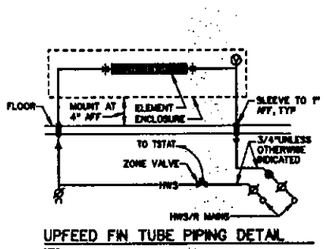




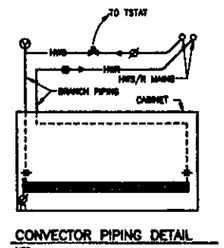
CABINET UNIT HEATER PIPING DETAIL
NTS



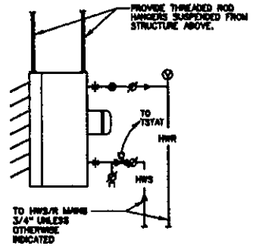
LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL
NTS



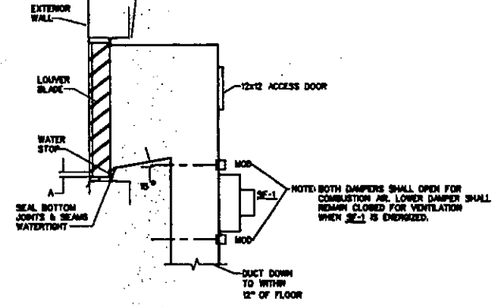
UPFEED FIN TUBE PIPING DETAIL
NTS



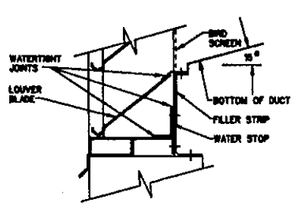
CONVECTOR PIPING DETAIL
NTS



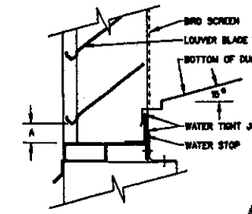
HORIZONTAL UNIT HEATER PIPING DETAIL
NTS



COMBUSTION AIR INTAKE DETAIL
NTS
IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET.



MODIFIED LOUVER DETAIL
NTS



LOUVER CONNECTION DETAIL
NTS
TYPICAL FOR LOUVERS AND BLOCK VENTS. IF DIMENSION "A" IS LESS THAN 1 INCH SEE MODIFIED LOUVER DETAIL THIS SHEET (LOUVERS ONLY).

MECHANICAL LEGEND

NOTE: USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)
CD	CONDENSATE DRAIN PIPING (CD)
CTR	COOLING TOWER RETURN PIPING (CTR)
CTS	COOLING TOWER SUPPLY PIPING (CTS)
CWR	CHILLED WATER RETURN PIPING (CWR)
CWS	CHILLED WATER SUPPLY PIPING (CWS)
FOR	FUEL OIL RETURN PIPING (FOR)
FOS	FUEL OIL SUPPLY PIPING (FOS)
GS	GENERATOR SUPPLY PIPING (GLYCOL)
GR	GENERATOR RETURN PIPING (GLYCOL)
HG	HOT GAS BYPASS
HWR	HOT WATER RETURN PIPING (HWR)
HWS	HOT WATER SUPPLY PIPING (HWS)
RL	REFRIGERANT LIQUID PIPING (RL)
RG	REFRIGERANT GAS PIPING (RG)
	PIPE CAP
	DIRECTION OF FLUID FLOW
	ELBOW UP
	ELBOW DOWN
	PIPE TEE UP
	PIPE TEE DOWN
	PIPE REDUCER
	PIPE WITH GUIDE
	PIPE WITH ANCHOR
	BUTTERFLY VALVE
	OS & Y GATE VALVE
	BACKFLOW PREVENTER (BFP)
	CHECK VALVE
	BALANCING VALVE (ADJUSTABLE)
	RELIEF VALVE (RV)
	BALL VALVE
	3/4" BALL VALVE WITH 3/4" HOSE END
	GATE VALVE
	PRESSURE REDUCING VALVE
	FLANGLE VALVE
	STRAINER
	STRAINER W/BLOWDOWN BALL VALVE
	2-WAY CONTROL VALVE
	SOLENOID VALVE
	3-WAY CONTROL VALVE
	3-WAY CONTROL VALVE (TOP VIEW)
	2 BUTTERFLY VALVES W/SINGLE ACTUATOR

SYMBOL	DESCRIPTION
	BUTTERFLY VALVE W/ACTUATOR
	UNION
	PIPE FLANGE
	PUMP WITH FLANGES
FCS	FLEXIBLE PIPE CONNECTION (FC)
	PITCH DOWN
	PETCOCK
	PRESSURE GAGE WITH GAGE COCK
	THERMOMETER IN WELL
	PRESSURE SWITCH OR SENSOR
	TEMPERATURE SENSOR
	DUCT MOUNTED SMOKE DETECTOR
	ROOM TEMPERATURE SENSOR
	THERMOSTAT OR SENSOR ON WALL
	MANUAL AIR VENT
	NOTE TAG DIAMETER
	AIR DEVICE TAG (LETTER) WITH CFM
	CEILING DIFFUSER TAG
	TURNING VANES
	DUCT W/ANNAL DAMPER
	DUCT W/FLEXIBLE CONNECTION (FC)
	LAGGED DUCT
	DUCT W/ACOUSTIC LINING
	DUCT W/SMOKE-TO-ROUND TRANSITION
	FLEXIBLE DUCT
MOD	MOTOR OPERATED DAMPER
	AIRFLOW OUT
	AIRFLOW IN
	DIAMETER OR FLAT OVAL
	FIRE DAMPER
	CONNECT TO EXISTING
	ROUND OR FLAT OVAL DUCT DOWN
	ROUND OR FLAT OVAL DUCT UP
	SUPPLY DIFFUSER
	RETURN GRILLE
	STEAM TRAP
A / M3	SECTION REFERENCE

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
ACC	AIR COOLED CHILLER
AHU-#	AIR HANDLING UNIT TAG
APD	AIR PRESSURE DROP
AS-#	AIR SEPARATOR TAG
AMS	AIRFLOW MONITORING STATION
AMPS	AMPERES
AAV	AUTOMATIC AIR VENT
ATC	AUTOMATIC TEMPERATURE CONTROL
BFP-#	BACKFLOW PREVENTER TAG
B-#	BOILER TAG
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BD-#	BYPASS DAMPER TAG
CUH-#	CABINET UNIT HEATER TAG
CD-#	CEILING DIFFUSER TAG
C-#	CHILLER TAG
CWS/R	CHILLED WATER SUPPLY AND RETURN
CP-#	CIRCULATING PUMP TAG
CONN-#	CONNECTOR TAG
CC-#	COOLING COIL TAG
CT-#	COOLING TOWER TAG
CBD	COUNTER BALANCED DAMPER
CU/FT	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CV	VALVE COEFFICIENT
dB RE	DECIBELS RELATIVE TO
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DW	DOWN IN WALL
DB	DRY BULB
EFF	EFFICIENCY
EDC-#	ELECTRIC DUCT COIL TAG
EER	ENERGY EFFICIENCY RATIO
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EWT	ENTERING WATER TEMPERATURE
EWB	ENTERING WET BULB
EXH	EXHAUST
EA	EXHAUST AIR

ABBREVIATION	DESCRIPTION
EF-#	EXHAUST FAN TAG
ES-#	EXHAUST GRILLE TAG
ER-#	EXHAUST REGISTER TAG
EXIS	EXISTING
ET-#	EXPANSION TANK TAG
ESP	EXTERNAL STATIC PRESSURE
FT	FEET
FPM	FEET PER MINUTE
FTR-#	FINTUBE RADIATION TAG
FB	FIRE DAMPER
FD-#	FLOOR DRAIN TAG
FLA	FULL LOAD AMPS
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
GA	GAGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GFWH-#	GAS FIRED WATER HEATER TAG
GUH-#	GAS UNIT HEATER TAG
HRV-#	HEAT RECOVERY VENTILATOR TAG
HC-#	HEATING COIL TAG
HP	HORSEPOWER
HWS/R	HOT WATER SUPPLY AND RETURN
IN.	INCHES
IFWH-#	INDIRECT FIRED WATER HEATER TAG
I-B-R	INSTITUTE OF BOILER AND RADIATION MANUFACTURERS
IF	INTAKE VENT TAG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LD-#	LINEAR DIFFUSER TAG
LF	LINEAR FOOT
LRA	LOCKED ROTOR AMPS
L-#	LOUVER TAG
LWCO	LOW WATER CUTOUT
LB	POUNDS
MAX	MAXIMUM
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MBH	THOUSANDS OF BTU PER HOUR
NIC	NOISE CRITERION
NC	NOT IN CONTRACT
NTS	NOT TO SCALE

ABBREVIATION	DESCRIPTION
OFWH-#	OIL FIRED WATER HEATER TAG
OED	OPEN ENDED DUCT
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
O.D.	OUTSIDE DIAMETER
OPD	OVERCURRENT PROTECTIVE DEVICE
PF-#	PROPELLER FAN TAG
PENETN	PENETRATION
PVC	POLYVINYL CHLORIDE (PIPE)
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
RFH-#	RADIANT FLOOR MANIFOLD TAG
RMC	RECOMMENDED EMAL ELEMENT FUSE AMPS
RA	RETURN AIR
RG-#	RETURN GRILLE TAG
RR-#	RETURN REGISTER TAG
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RTU	ROOM TEMPERATURE SENSOR
RLA	RUNNING LOAD AMPS
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SD	SMOKE DAMPER
SA	SUPPLY AIR
SF	SUPPLY FAN
SG-#	SUPPLY GRILLE TAG
SR-#	SUPPLY REGISTER TAG
SQ.FT	SQUARE FEET
SP	STATIC PRESSURE
TEMP.	TEMPERATURE
TCP	TEMPERATURE CONTROL PANEL
ΔT	TEMPERATURE DIFFERENTIAL
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
UH-#	UNIT HEATER TAG
VAV-#	VARIABLE AIR VOLUME BOX TAG
VSD	VARIABLE SPEED DRIVE
V/PH/HZ	VOLTS/PHASES/HERTZ
WG	WATER GAGE
WPD	WATER PRESSURE DROP
WTD	WATER TEMPERATURE DROP
WB	WET BULB
WSA	WIRE SIZING AMPS
W/	WITH
ZD-#	ZONE DAMPER TAG

No.	Revision	By	Date	In Charge Of:
				Designed JAW 4 APR 02
				Drawn JAW 4 APR 02
				Checked WKB 4 APR 02

Maine Turnpike Authority
Maine Turnpike

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BUILDING RENOVATION AND EXPANSION

FIRST FLOOR MECHANICAL PLANS

HNTB
ARCHITECTS ENGINEERS PLANNERS

BENNETT ENGINEERING INC.
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 297
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(207) 865-9475

WILLIAM S. BENNETT 2915 REGISTERED PROFESSIONAL ENGINEER STATE OF MAINE

Contract
YORK TOLL PLAZA - 99.7

Sheet No.
35 OF 38

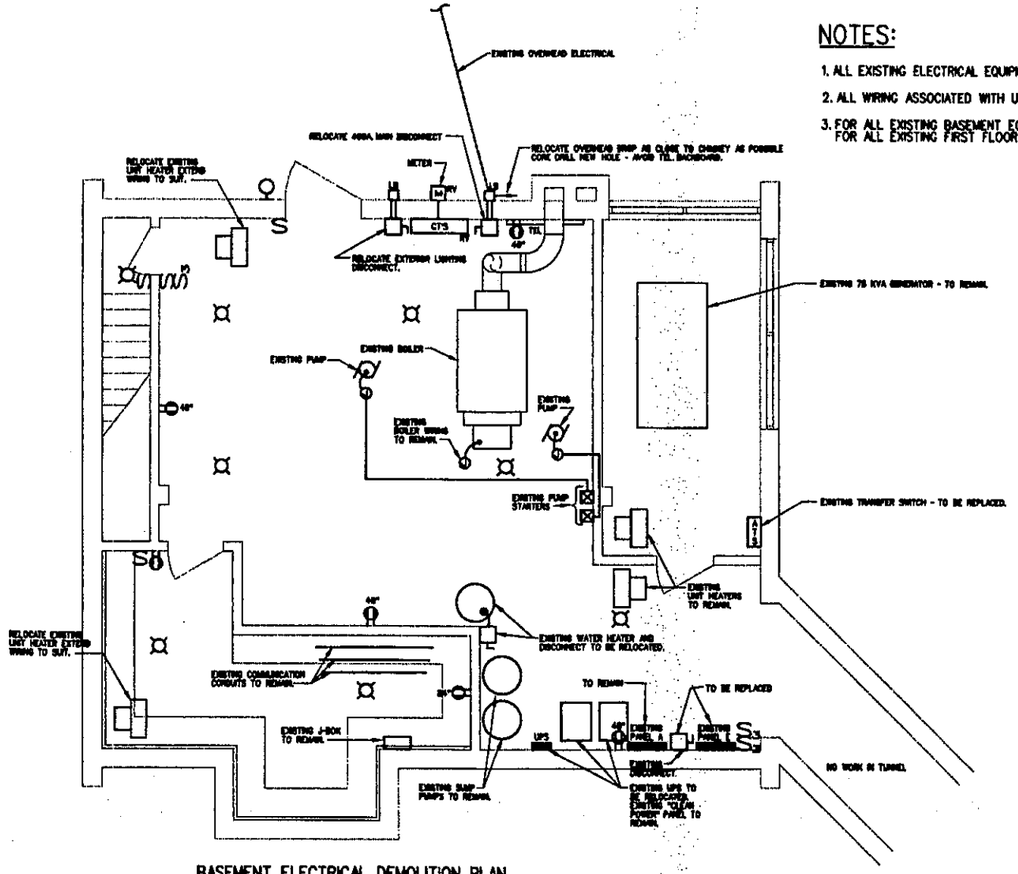
M1.2

(METPK*BDR-01

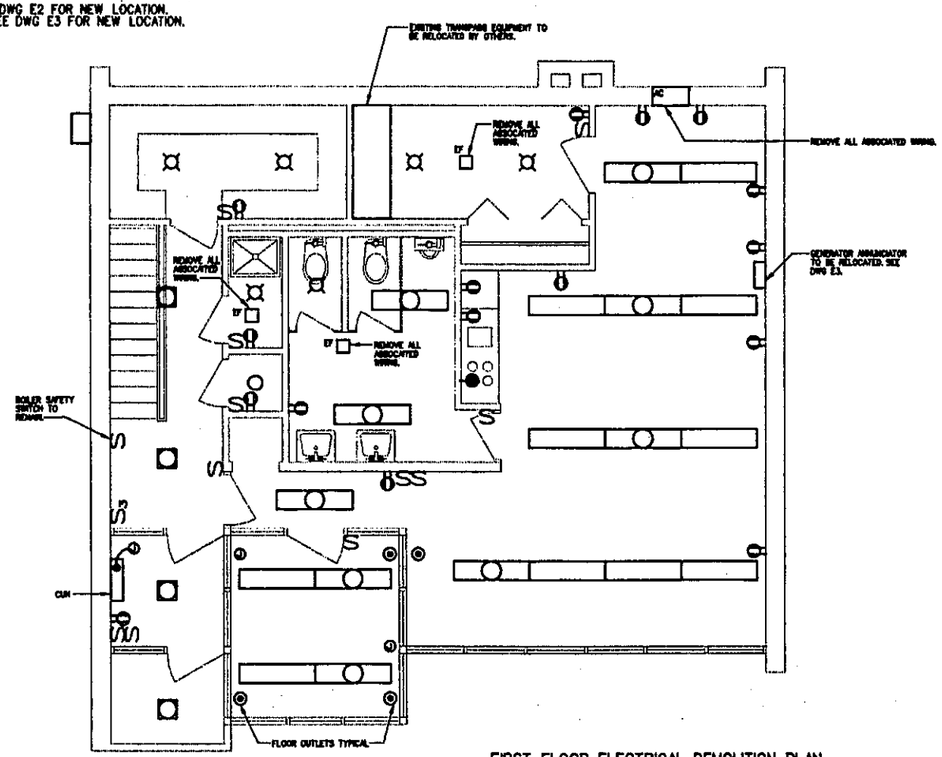
NOTES:

1. ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED
2. ALL WIRING ASSOCIATED WITH UTILITY TUNNEL/TOLL BOOTHES TO REMAIN.
3. FOR ALL EXISTING BASEMENT EQUIPMENT BEING RELOCATED - SEE DWG E2 FOR NEW LOCATION.
   FOR ALL EXISTING FIRST FLOOR EQUIPMENT BEING RELOCATED - SEE DWG E3 FOR NEW LOCATION.

REFERENCE NORTH



BASEMENT ELECTRICAL DEMOLITION PLAN
SCALE: 1/4"-1'-0"



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4"-1'-0"

PROJECT: YORK TOLL PLAZA, YORK, MAINE
THREE PHASE PANELBOARD SCHEDULE
PANEL DESIGNATION: PANEL E - (EXISTING)
MAIN LUGS: 225A. VOLTS: 120/208 PHASE: 3 WIRE: 4

KVA LOAD					KVA LOAD
	FIRST FLOOR LIGHTING	1	2	CIRC. PUMP #1	
	TUNNEL LIGHTING	3	4	SPACE	
	FOG LIGHTS	5	6	GENERATOR ROOM	
	OIL BURNER	7	8	EXISTING LOAD	
	ONLY ONE PHASE CONNECTED	9	10	EXISTING LOAD	
			12	TRAFFIC CONTROL	
	EXISTING LOADS	13	14	CIRC. PUMP #2	
	BOOTH PANELS (D, E, F, G, H)	19	20	UPS	
			24	SPACE	
	SPACE	25	26	PANELS A, B, C	
	COMPUTER	27			
	SPACE		30		
	RANGE	31	32	BOOTH PANELS (I, J, K, L)	
	SPACE	35	36		
	SPACE	37	38	WELL PUMP	
	EXISTING LOAD	39			
	SPACE	41	42		
	TOTAL CONN. LOAD _____			TOTAL DEM. LOAD _____	

PROJECT: YORK TOLL PLAZA, YORK, MAINE
THREE PHASE PANELBOARD SCHEDULE
PANEL DESIGNATION: PANEL A - (EXISTING)
MAIN LUGS: 100A. VOLTS: 120/208 PHASE: 3 WIRE: 4

KVA LOAD					KVA LOAD
	FIRST FLOOR LIGHTING LOAD	1	2	FIRST FLOOR OUTLETS	
	FIRST FLOOR LIGHTING LOAD	3	4	FIRST FLOOR OUTLETS	
	SPARE	5	6	FIRST FLOOR OUTLETS	
	LOAD	7	8	BASEMENT OUTLETS	
	BOILER ROOM LOAD	9	10	SPARE	
	LOAD	11	12	UNIT HEATERS	
	LOAD	13	14	AREA LIGHTING	
	SPARE	15	16	AREA LIGHTING	
	WATER HEATER	17	18	AIR CONDITIONER	
			30		
	TOTAL CONN. LOAD _____			TOTAL DEM. LOAD _____	

STATE OF MAINE — CHARLES W. ABBOTT, JR. — No. 5878 — REGISTERED PROFESSIONAL ENGINEER

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 287
FREEPORT, MAINE 04032
(207) 865-9475

No.	Revision	By	Date

	By	Date
Designed	WSBJR	8/4/98
Drawn	SB	8/4/98
Checked	CWA	8/4/98
In Charge Of:		

Maine Turnpike Authority
Maine Turnpike

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BUILDING RENOVATION AND EXPANSION

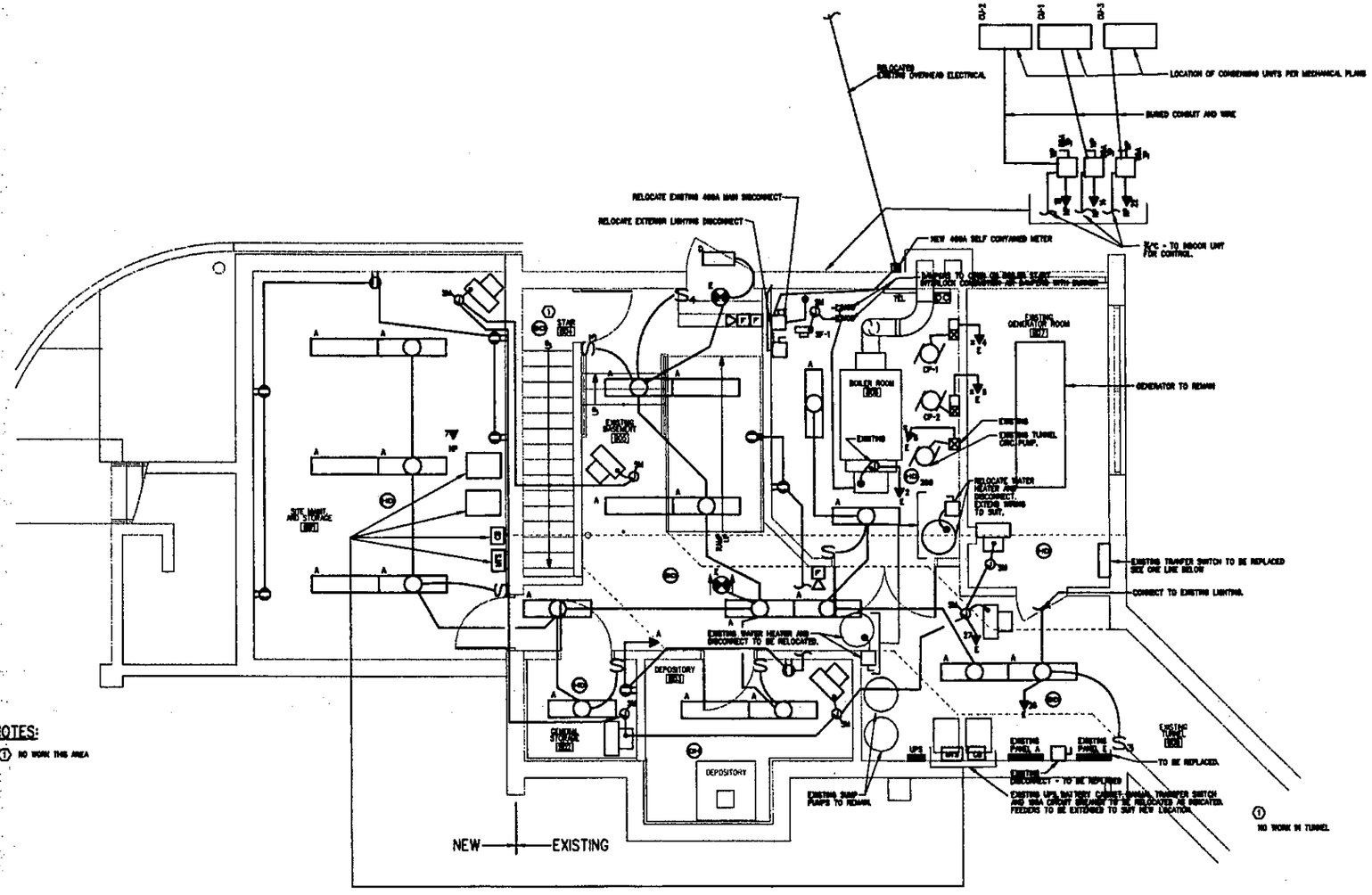
BASEMENT AND FIRST FLOOR ELECTRICAL DEMOLITION PLANS

HNTB
ARCHITECTS ENGINEERS PLANNERS

Contract: YORK TOLL PLAZA - 99.7

Sheet No.: 36 OF 38 E1

(METPK#BDR-01

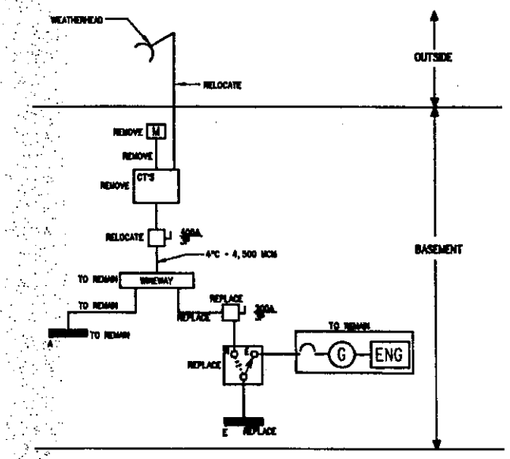


NOTES:

① NO WORK THIS AREA

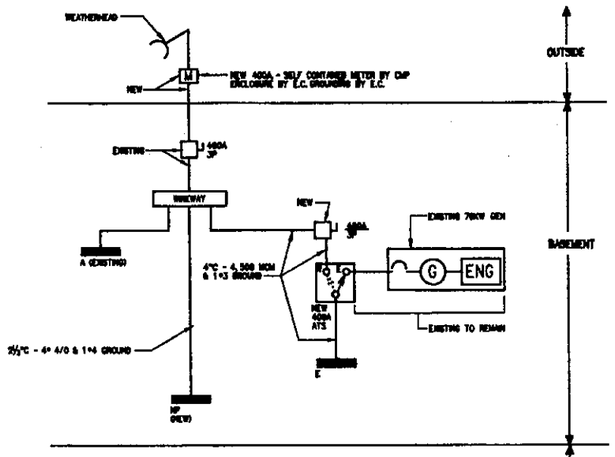
BASEMENT ELECTRICAL PLAN

SCALE: 1/4"-1'-0"



EXISTING ONE LINE DIAGRAM

SCALE: NONE



NEW ONE LINE DIAGRAM

SCALE: NONE

SYMBOL LEGEND

- POWER PANEL 120/208, 3PHS, 4WIRE
- (M) ELECTRIC MOTOR DRIVEN EQUIPMENT,HP SHOWN
- UNFUSED DISCONNECT SWITCH - 250 VOLT SIZE & NO. POLES AS NOTED.
- SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
- (J) JUNCTION BOX
- LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL.
- (E) EXIT LIGHT FIXTURE-UNSWITCHED
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS.
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR
- LP1 HOME RUN TO PANEL- ARROWS INDICATE QUANTITY OF CIRCUITS- NUMERALS DENOTE CIRCUIT NUMBERS
- EB1 HOME RUN TO EMERG. BATTERY UNIT 12 VOLTS D.C.
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN

SHORT CROSS LINES INDICATE QUANTITY OF #12 AWG WIRES IN CABLE OR IN 3/4"C WHEN GREATER THAN TWO. ABSENCE OF CROSS LINES INDICATES 2 #12 AWG WIRES ASTERISK INDICATES #10 AWG FOR ALL CIRCUITS CONTAINED IN HOMERUN.

- COMBINATION CIRCUIT BREAKER & MAGNETIC MOTOR STARTER - NEMA SIZE 1 W/4 AUX CONTACTS AND HAND-OFF-AUTO SWITCH W/RED POWER ON PILOT LIGHT.
- S SINGLE POLE SWITCH,120 VOLT,20 AMP,SPEC GRADE, GROUNDING TYPE ,MOUNT 48" AFF, 3-3 WAY,4-4 WAY,P=PILOT,WP=WEATHERPROOF LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PILOT LIGHT SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE.
- DUPLEX RECEPTACLE- 20A,125V SPEC GRADE GROUNDING TYPE AND MATCHING IVORY PLATE - MOUNT 24" AFF. "R" DENOTES REFRIGERATOR - "D" DENOTES 2 DUPLEX OUTLETS IN A 2 GANG BOX
- GF DUPLEX RECEPTACLE- GROUND FAULT OUTLET 20A, 125V- WITH MATCHING IVORY PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.

FIRE ALARM SYSTEM SEE SPEC

- (H) FIRE ALARM HEAT DETECTOR, FIXED TEMPERATURE 135°F -120 VOLTS
- FT(H) FIRE ALARM HEAT DETECTOR, FIXED TEMPERATURE 200°F
- (S) SMOKE DETECTOR, PHOTOELECTRIC TYPE- SYSTEM CONNECTED
- (H) HEAT DETECTOR
- FACP FIRE ALARM CONTROL PANEL SURFACE MOUNT 78" AFF TO TOP
- FIRE ALARM PULL STATION MOUNT 48"AFF
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF - "MH" DENOTES MINIHORN
- SD FIRE ALARM VISUAL STROBE ONLY
- DIGITAL ALARM COMMUNICATOR TRANSMITTER
- TELEPHONE CONNECTION MOUNT 18"AFF - W/1-4 PAIR CABLE TO TEL. BACKBOARD
- PLUGMOLD - 8" O.C.

WP DENOTES WEATHERPROOF CONSTRUCTION
RM DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED.
RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED.

No.	Revision	By	Date	In Charge Of:		
				Designed	WSSJR	8/4/98
				Drawn	SD	8/4/98
				Checked	CWA	8/4/98

Maine Turnpike Authority
Maine Turnpike

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BUILDING RENOVATION AND EXPANSION

BASEMENT ELECTRICAL PLAN, LEGEND AND ONE LINE DIAGRAMS

HNTB ARCHITECTS ENGINEERS PLANNERS

STATE OF MAINE CHARLES W. ABBOTT, JR. No. 5301 REGISTERED PROFESSIONAL ENGINEER

BENNETT ENGINEERING
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Contract: YORK TOLL PLAZA - 99.7

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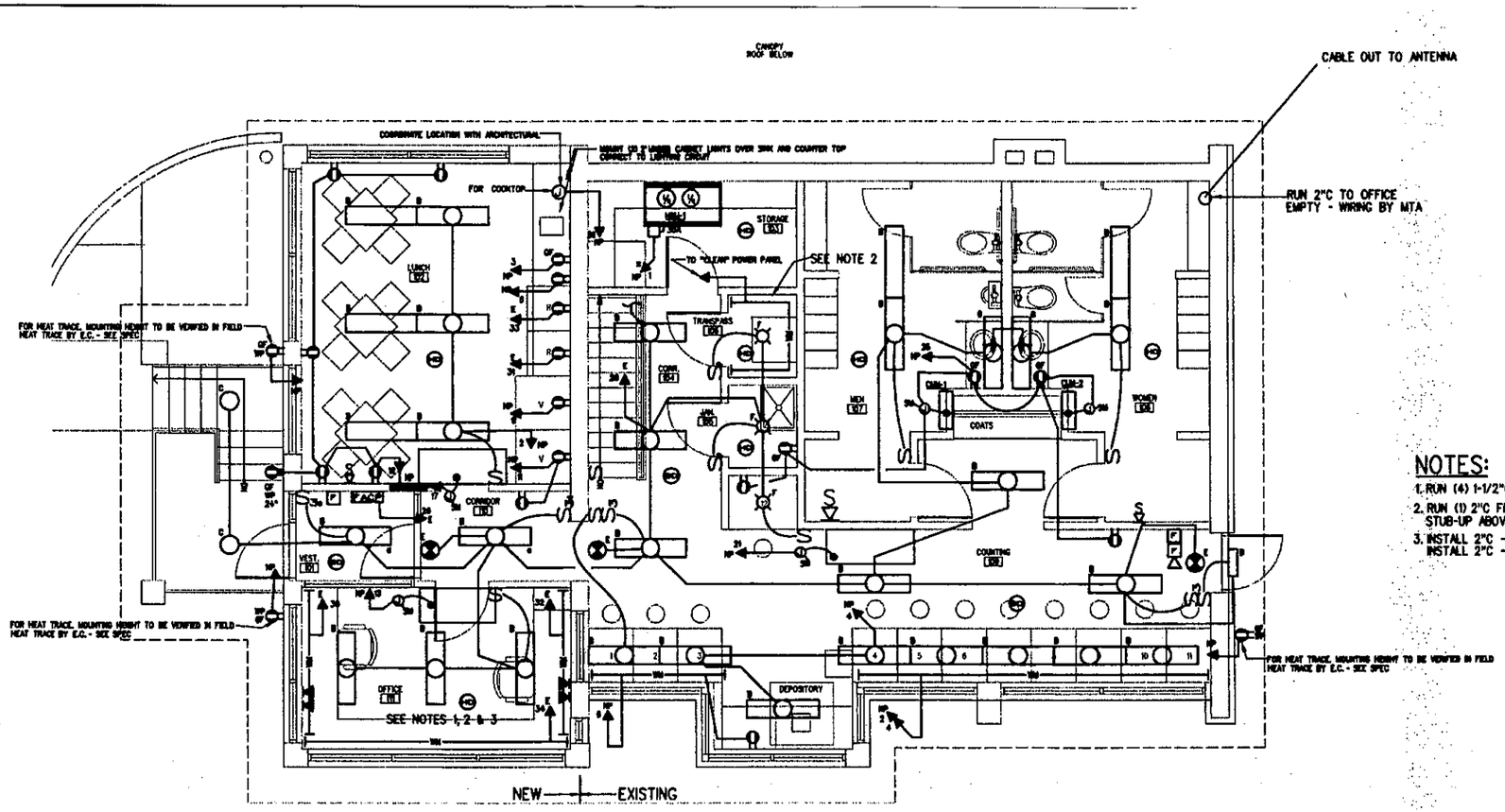


NOTES:

1. RUN (4) 1-1/2"C - EMPTY FROM OFFICE TO BASMENT. STUP ABOVE AND BELOW FLOOR AND CAP FOR FUTURE.
2. RUN (1) 2"C FROM TELEPHONE BACKBOARD TO TRANSPASS ROOM. RUN (1) 2"C FROM TRANSPASS ROOM TO OFFICE. STUB-UP ABOVE FLOOR. VERIFY LOCATION WITH HNTB
3. INSTALL 2"C - EMPTY TO TUNNEL FOR RADIO COMMUNICATIONS. SPLICE CONDUIT INTO EXISTING - WIRING BY MTA. INSTALL 2"C -EMPTY FROM OFFICE TO BACK CORNER FOR ANTENNA CABLE. WIRING BY MTA.

FIRST FLOOR ELECTRICAL PLAN

SCALE: 1/4"-1'-0"

PROJECT: YORK TOLL PLAZA, YORK, MAINE — THREE PHASE PANELBOARD SCHEDULE — PANEL DESIGNATION: PANEL E - (NEW)

MAIN LUGS: 400A. VOLTS: 120/208 3WIRE: 3 WIRE: 4

KVA LOAD				KVA LOAD
*	TUNNEL PANELS (A, B, C)	1	BOILER	*
*		3	CP-1	
*		5	CP-2	
*	TUNNEL PANELS (D, E, F, G, H)	7	CP-3 (TUNNEL) & EXHST. PUMP	*
*		9		*
*		11		*
*	TUNNEL PANELS (I, J, K, L)	13	WELL PUMP	*
*		15		*
*		17	SEWAGE EJECT.	*
*	UPS	19		*
*		21	FOG LIGHTS	*
*	TRAFFIC CONTROL	23	TUNNEL LIGHTS	*
*	GENERATOR POWER	25	BASEMENT LIGHTING	1.2
1.5	UNIT HEATERS	27	UPSTAIRS LIGHTING	1.1
.5	FACP	29	OFFICE OUTLETS	1.0
1.5	REFRIGERATOR	31		1.0
1.5	REFRIGERATOR	33		1.0
*	EXISTING LOAD	35	SPARE	
*		37		
*		39		
	SPACE	41		

TOTAL CONN. LOAD ____ * TOTAL DEM. LOAD ____ *

* EXISTING LOADS UNKNOWN

PROJECT: YORK TOLL BOOTH, YORK, MAINE — THREE PHASE PANELBOARD SCHEDULE — PANEL DESIGNATION: NP

MAIN LUGS: 225A. VOLTS: 120/208 3WIRE: 3 WIRE: 4

KVA LOAD				KVA LOAD
1.5	HRV-1	1	LIGHTING - LOUNGE	.5
1.5	MICROWAVE	3	LIGHTING - CASH-UP	.70
1.5	MICROWAVE	5	PLUGMOLD	1.2
1.0	OUTLETS - STORAGE	7	PLUGMOLD	1.2
.5	VENDING	9	PLUGMOLD	1.2
.5	VENDING	11	OUTLETS - LOUNGE	1.0
1.5	AC-1	13	CU-1	2.0
1.5		15		2.0
1.5	AC-2	17	CU-2	3.1
1.5		19		3.1
1.5	AC-3	21	CU-3	4.1
1.5		23		4.1
1.4	OUTLETS & CURTS	25	COOKTOP	1.5
1.5	HEAT TRACE	27		1.5
1.5	HEAT TRACE	29	SPACE	
1.5	HEAT TRACE	31		
	SPARE	33		
		35		
		37		
		39		
		41		

TOTAL CONN. LOAD 48.8 KVA TOTAL DEM. LOAD 48.8 KVA

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	COLUMBIA*CS4 -323-EB8-120	2-32T8-SPX35	CHAIN HUNG W/WIREGUARD CSWG4
B	COLUMBIA*WC4-232-EB8-120	2-32T8-SPX35	SURFACE MOUNT
C	KENALL*MR17-FDS-MW42P-3-120-BOPC	3-42PL	SURFACE MOUNT UNDER CANOPY
D	SPAULDING *WCRI-S100-120-PC	1- 100WMH	WALL MOUNT ABOVE DOOR WITH PHOTOCELL.
E	PRESCOLITE*PEX-L-3-R-EN-120	LEDS SUPPLIED W/UNIT	BACK OR TOP MOUNT

No.	Revision	By	Date		By	Date
				Designed	WSBJR	6/4/99
				Drawn	SD	6/4/99
				Checked	CWA	6/4/99

In Charge Of:

Maine Turnpike Authority
Maine Turnpike

Trans pass

BUILDING RENOVATION AND EXPANSION

FIRST FLOOR ELECTRICAL PLAN, PANEL SCHEDULES AND LIGHTING FIXTURE SCHEDULE

HNTB
ARCHITECTS ENGINEERS PLANNERS

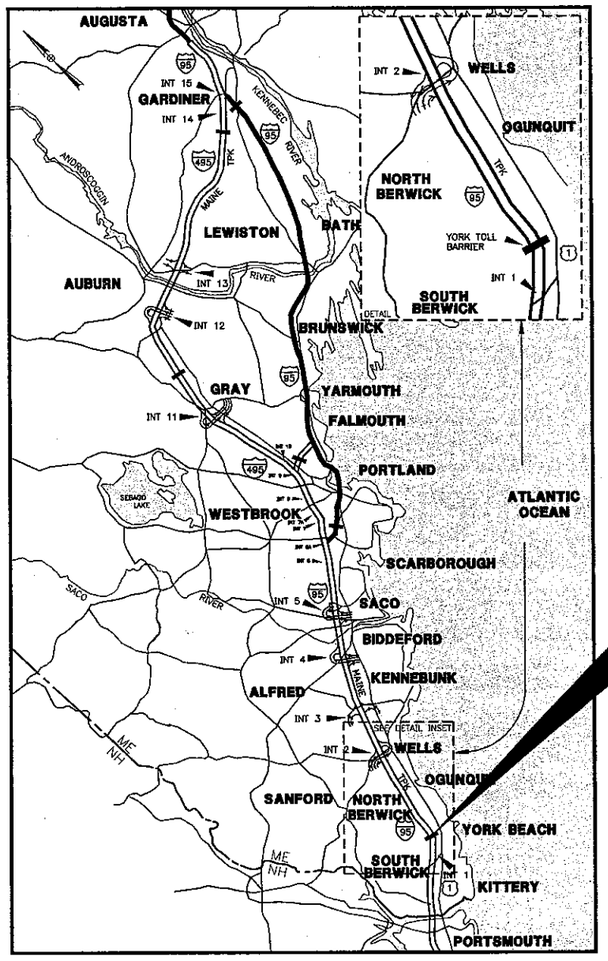
STATE OF MAINE CHARLES W. ABBOTT, JR. No. 5291 REGISTERED PROFESSIONAL ENGINEER

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD P.O. BOX 297
FREEPORT, MAINE 04032
(207) 865-9475

Contract: YORK TOLL PLAZA - 99.7

Sheet No.: 38 OF 38 E3

MAINE TURNPIKE



LOCATION MAP

CONTRACT 2001.15
YORK TOLL PLAZA
CANOPY EXTENSION
MILE 5.75

MAINE TURNPIKE AUTHORITY

SAMUEL M. ZAITLIN, CHAIRMAN
PATRICK F. BUTLER, VICE CHAIRMAN
LUCIEN B. GOSSELIN, MEMBER
EARL L. ADAMS, MEMBER
JOHN G. MELROSE, MEMBER EX–OFFICIO
JANE. L. LINCOLN, MEMBER EX–OFFICIO

PAUL E. VIOLETTE, EXECUTIVE DIRECTOR

INDEX OF SHEETS

CONTRACT 2001.15
YORK TOLL PLAZA
CANOPY EXTENSION
MM 5.75

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

COMMISSIONER _____ DATE _____

BUREAU DIRECTOR AND CHIEF ENGINEER _____ DATE _____

HNTB
ARCHITECTS ENGINEERS PLANNERS

STATE OF MAINE
ROLAND A. LAVALLEE
6452
REGISTERED PROFESSIONAL ENGINEER

ROLAND A. LAVALLEE P.E., PLS
VICE PRESIDENT
DIRECTOR OF OPERATIONS
DATE 6/16/04

APPROVED:
MAINE TURNPIKE AUTHORITY

CHAIRMAN

EXECUTIVE DIRECTOR

DATE

GENERAL NOTES

SPECIFICATIONS

DESIGN

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES 16TH EDITION, 1996 WITH LATEST INTERIMS.

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF APRIL 1995.

MATERIALS

CONCRETE

CONCRETE SHALL BE CLASS A.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE AASHTO M270, GRADE 36

BASIC ALLOWABLE STRESSES

CONCRETE

f'_c = 4,000 P.S.I.

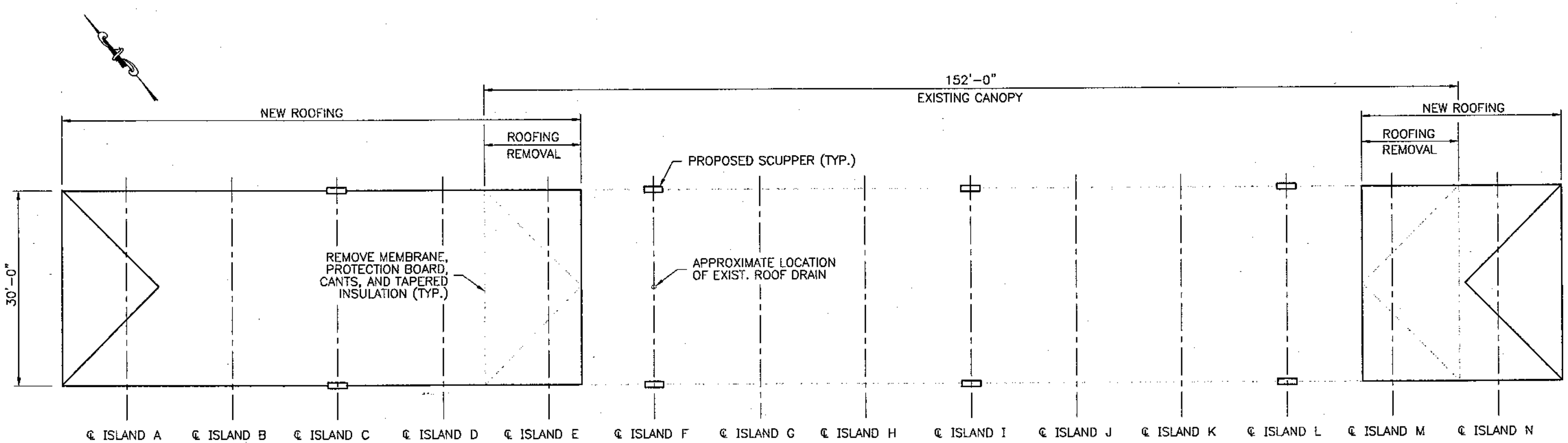
STRUCTURAL STEEL

AASHTO M270 GRADE 36 F_y = 36,000 P.S.I.

INDEX OF DRAWINGS

C-1	GENERAL NOTES, INDEX, AND ESTIMATED QUANTITIES
S-1	PLAN AND ELEVATION
S-2	CANOPY REMOVAL
S-3	FRAMING PLAN
S-4	FRAMING DETAILS I
S-5	FRAMING DETAILS II
S-6	CANOPY SIGNS TYPICAL DETAILS
S-7	OVERHEAD SIGN SUPPORT DETAILS
E-1	ELECTRICAL DEMOLITION PLAN AND ELEVATIONS
E-2	ELECTRICAL PLAN AND ELEVATIONS

ITEM	DESCRIPTION	UNIT	QUANTITY
202.12	CONCRETE DEMOLITION	5	CY
203.20	COMMON EXCAVATION	5	CY
304.10	AGGREGATE SUBBASE COARSE - GRAVEL	5	CY
403.07	HOT BITUMINOUS PAVEMENT, GRADING B	5	TON
419.30	SAWING BITUMINOUS PAVEMENT	60	LF
501.50	STEEL H-BEAM PILES 42 LBS/FT DELIVERED	400	LF
501.50	STEEL H-BEAM PILES 42 LBS/FT IN PLACE	400	LF
501.90	PILE TIPS	5	EA
501.91	PILE SPLICES	5	EA
501.93	AUGERED PILE SHAFTS, CASINGS AND BACKFILL	5	EA
502.455	MISCELLANEOUS STRUCTURAL CONCRETE	7	CY
613.319	TEMPORARY EROSION CONTROL BLANKET	30	SY
615.07	LOAM	5	CY
618.13	SEEDING - METHOD NO. 1	1	UNIT
619.12	MULCH	1	UNIT
629.05	HAND LABOR - STRAIGHT TIME	40	MH
629.06	ELECTRICIAN - STRAIGHT TIME	40	MH
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.173	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
606.36	FOREMAN	10	HR
652.30	FLASHING ARROW BOARD	2	EA
652.33	DRUM	50	EA
652.35	CONSTRUCTION SIGNS	426	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
656.50	BALED HAY, IN PLACE	20	EA
656.032	30" TEMPORARY SILT FENCE	100	LF
659.10	MOBILIZATION	1	LS
800.501	TOLL CANOPY EXTENSION - WEST END	1	LS
800.502	TOLL CANOPY EXTENSION - EAST END	1	LS



ROOFING PLAN

SCALE: 3/32" = 1'-0"

NOTES:

1. SEE SHEET S-5 FOR SECTIONS.
2. INSTALL SCUPPERS IN NEW AND EXISTING ROOF EACH SIDE AT ISLANDS C, F, I & L.
3. REPLACE DRAIN WITH 4 INCH ZURN Z-105-EA-2-C CONTROL-FLO ROOF DRAIN WITH ALUMINUM DOME.

Scale:			
No.	Revision	By	Date

Designed by: HNTB ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	CAH	8/01	Checked	CAH	8/01
Drawn	TRC	8/01	In Charge of	RAL	8/01

HNTB CORPORATION
2 Thomas Drive
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 772-7410

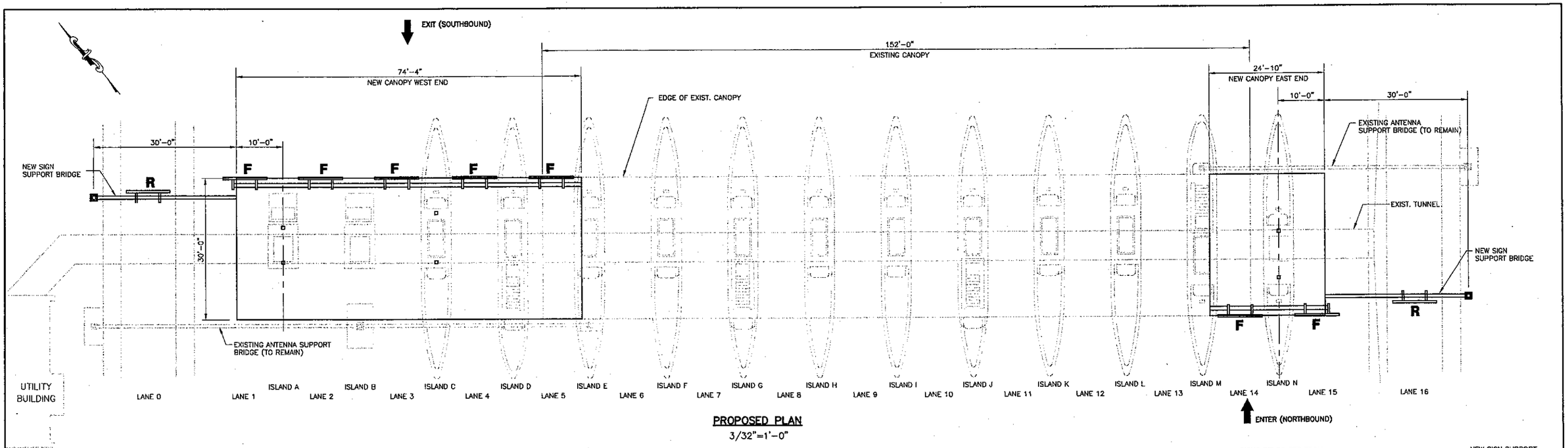
MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE Transpass

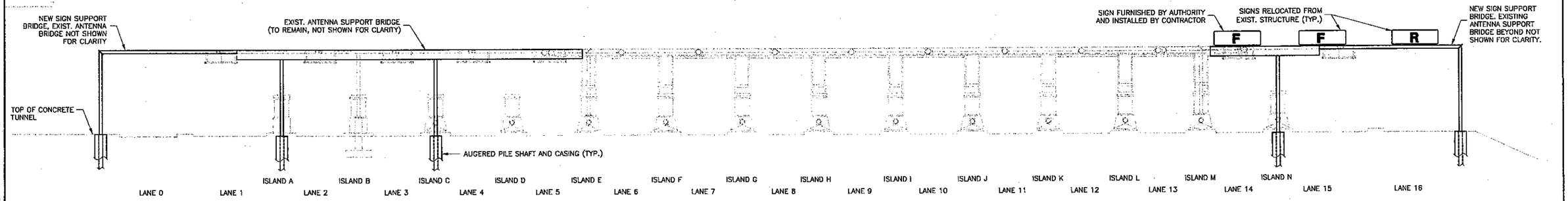
YORK TOLL PLAZA
CANOPY EXTENSION
GENERAL NOTES,
NDEX, AND QUANTITIES

SHEET NUMBER: C-1

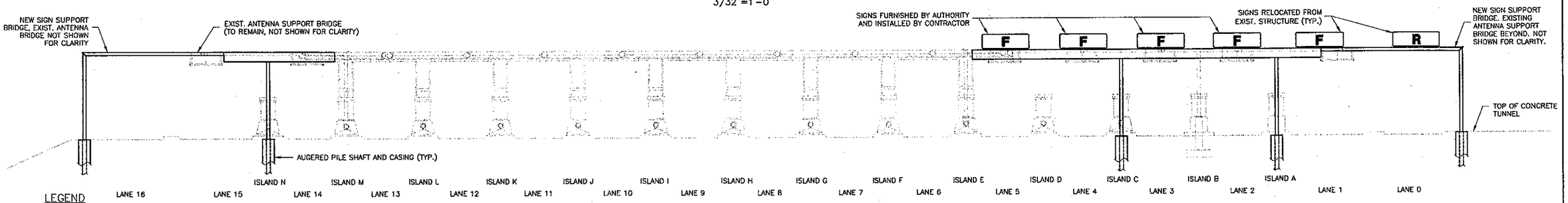
CONTRACT: 2001.15



PROPOSED PLAN
3/32"=1'-0"



PROPOSED ELEVATION – LOOKING NORTH
3/32"=1'-0"



PROPOSED ELEVATION – LOOKING SOUTH
3/32"=1'-0"

LEGEND

PROPOSED TOLL CANOPY SUPPORT MOUNTED SIGN

F FIXED SIGN

R ROTATING SIGN

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB
ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

HNTB CORPORATION
2 Thomas Drive
Westbrook, ME 04092
TEL (207) 774-5155
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MAINE TURNPIKE AUTHORITY

MAINE TURNPIKE Trans pass

YORK TOLL PLAZA CANOPY EXTENSION

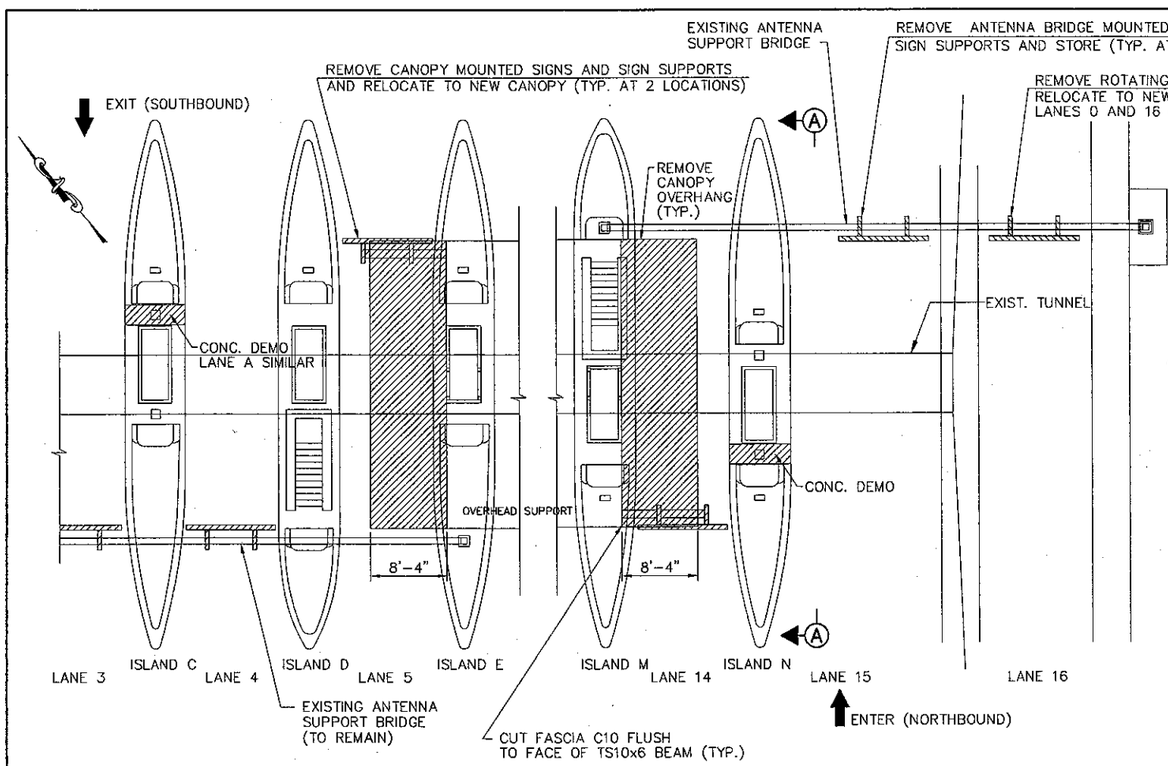
PLAN AND ELEVATION

SHEET NUMBER: S-1

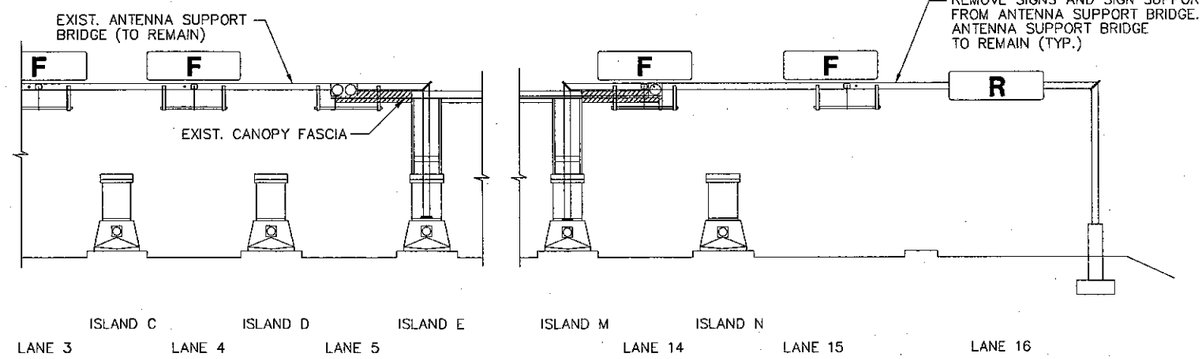
CONTRACT: 2001.15

3 OF 11

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S1-SITEPLAN.DWG 08/15/01 10:53



PLAN
1/8"=1'-0"

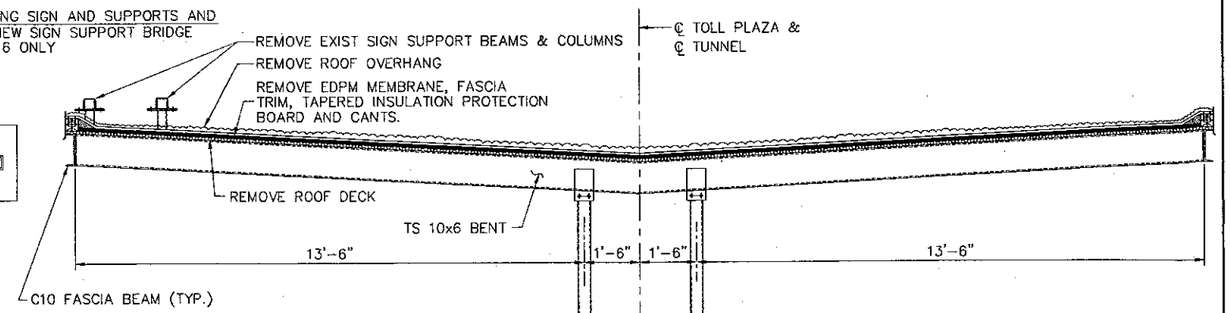


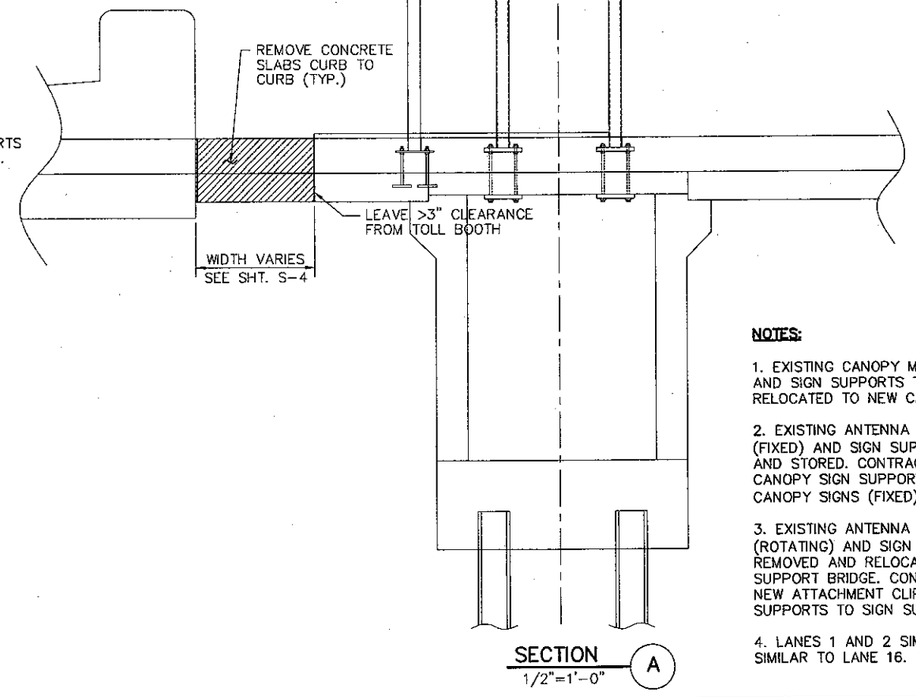
LEGEND

TO BE REMOVED

NOTE
CONTRACTOR TO PROVIDE ADEQUATE PROTECTION FOR EXISTING STRUCTURE DURING REMOVAL

ELEVATION -- LOOKING NORTH
1/8"=1'-0"





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

NOTES:

1. EXISTING CANOPY MOUNTED SIGNS (FIXED) AND SIGN SUPPORTS TO BE REMOVED AND RELOCATED TO NEW CANOPY.
2. EXISTING ANTENNA BRIDGE MOUNTED SIGNS (FIXED) AND SIGN SUPPORTS TO BE REMOVED AND STORED. CONTRACTOR TO FURNISH NEW CANOPY SIGN SUPPORTS. MTA TO FURNISH NEW CANOPY SIGNS (FIXED).
3. EXISTING ANTENNA BRIDGE MOUNTED SIGNS (ROTATING) AND SIGN SUPPORTS TO BE REMOVED AND RELOCATED TO NEW SIGN SUPPORT BRIDGE. CONTRACTOR TO FURNISH NEW ATTACHMENT CLIPS TO MOUNT SIGN SUPPORTS TO SIGN SUPPORT BRIDGE.
4. LANES 1 AND 2 SIMILAR TO LANE 3. LANE 0 SIMILAR TO LANE 16.

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S2-REMOVAL.DWG 08/14/01 08:40

Scale: AS NOTED

No.	Revision	By	Date

Designed by: HNTB ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

HNTB CORPORATION
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MAINE TURNPIKE AUTHORITY

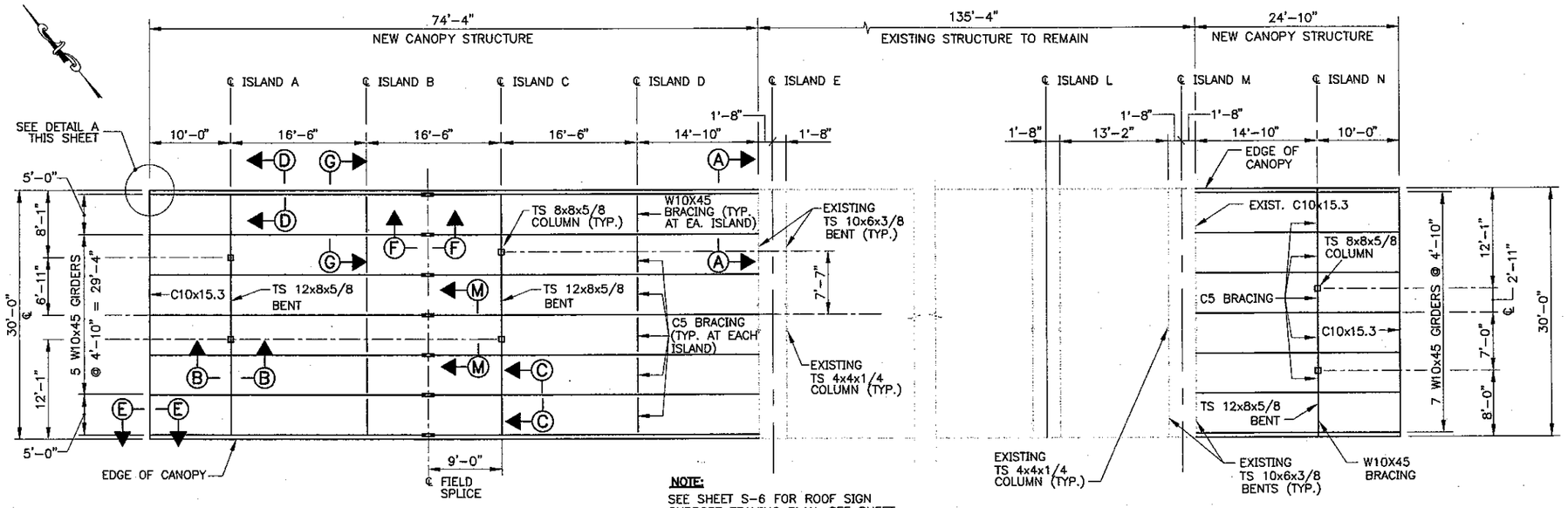
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA CANOPY EXTENSION

CANOPY REMOVAL

SHEET NUMBER: S-2
4 OF 11

CONTRACT: 2001.15



NOTE:
SEE SHEET S-6 FOR ROOF SIGN SUPPORT FRAMING PLAN. SEE SHEET S-5 FOR SECTIONS D-D, E-E, & M-M.

FRAMING PLAN – WEST END
1/8" = 1'-0"

FRAMING PLAN – EAST END
1/8" = 1'-0"

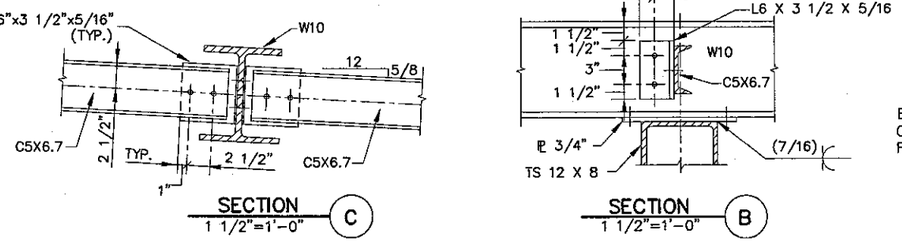
STRUCTURAL STEEL NOTES

SPECIFICATION
A.I.S.C. ALLOWABLE STRESS DESIGN MANUAL, 9TH EDITION
ASCE STANDARD 7-95: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

LOAD
ROOF SNOW LOAD=38#/S.F. (HORIZONTAL PROJECTION)
WIND LOAD = 102 MPH (3 SEC. GUSTS)

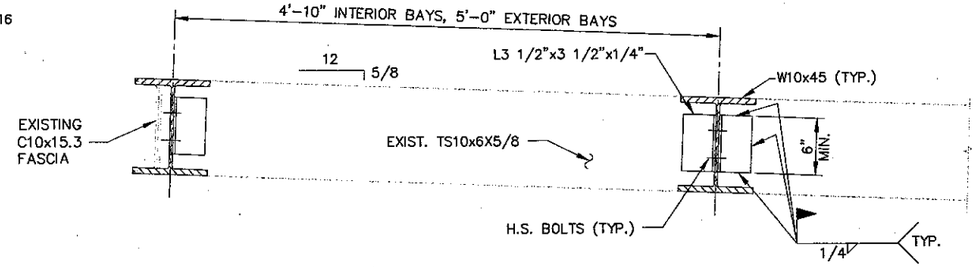
MATERIAL
STRUCTURAL STEEL TUBING ASTM DESIGNATION A500, FY=46,000psi. ALL OTHER STRUCTURAL STEEL TO BE AASHTO M270 (ASTM A709) GRADE 36 OR 50.
ALL HIGH STRENGTH BOLTS ARE 3/4"ø ASTM A325.

COATINGS
REFERENCE: MAINE TURNPIKE AUTHORITY SPECIAL PROVISION DIVISION 800 SECTION 09900
FOR CANOPY FRAMING, USE SYSTEM A(1) – (GLOSS ALKYD)
FOR SIGN SUPPORTS, USE SYSTEM A(2) – (HOT-DIP GALV.)

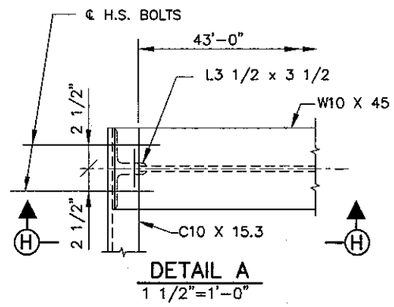


SECTION C
1 1/2"=1'-0"

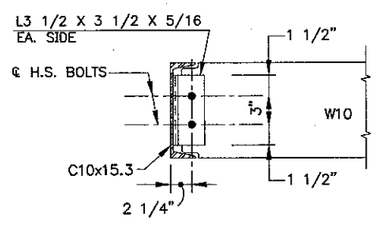
SECTION B
1 1/2"=1'-0"



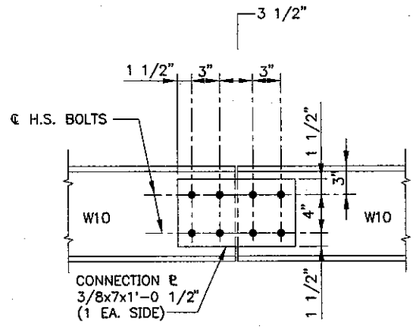
SECTION A
1 1/2" = 1'-0"



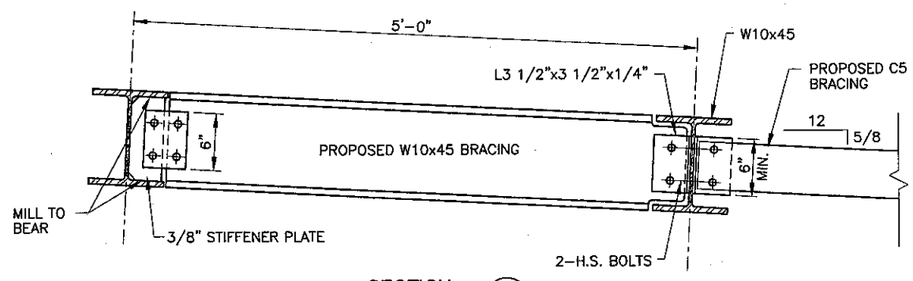
DETAIL A
1 1/2"=1'-0"



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



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



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

NOTE: ROOF MATERIAL NOT SHOWN.

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S3-FRAMINGPLAN.DWG 08/20/01 11:39

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB
ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

HNTB CORPORATION
2 Thomas Drive
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TEL (207) 774-5155
FAX (207) 772-7410

MAINE TURNPIKE AUTHORITY

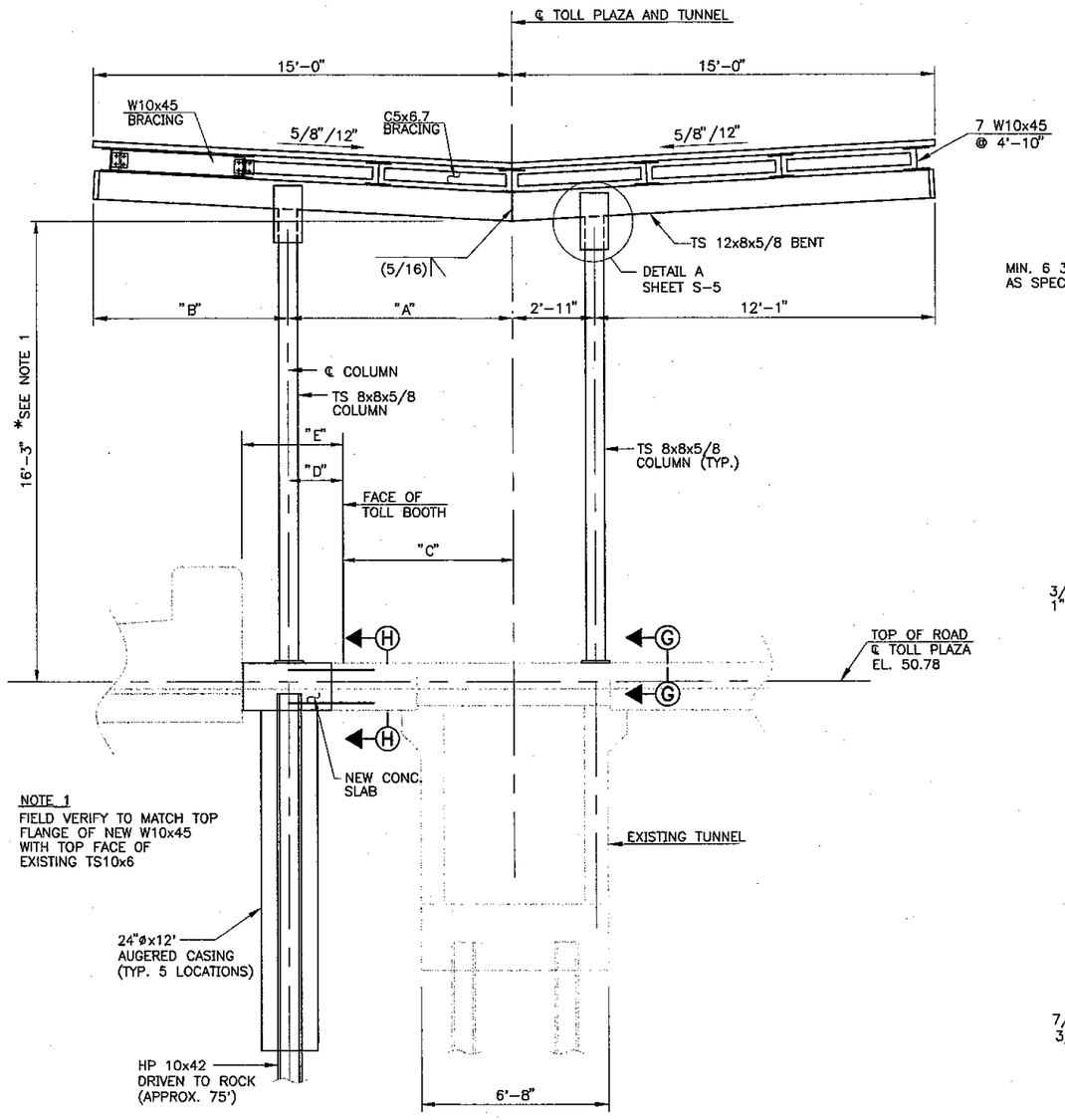
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA
CANOPY EXTENSION

FRAMING PLAN

SHEET NUMBER: S-3

CONTRACT: 2001.15

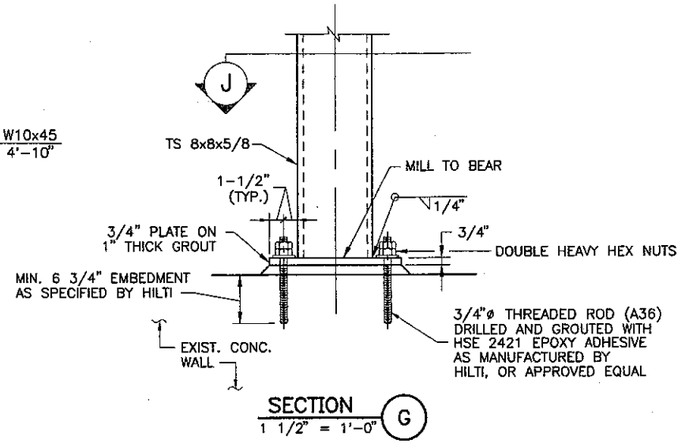


NOTE 1
FIELD VERIFY TO MATCH TOP FLANGE OF NEW W10x45 WITH TOP FACE OF EXISTING TS10x6

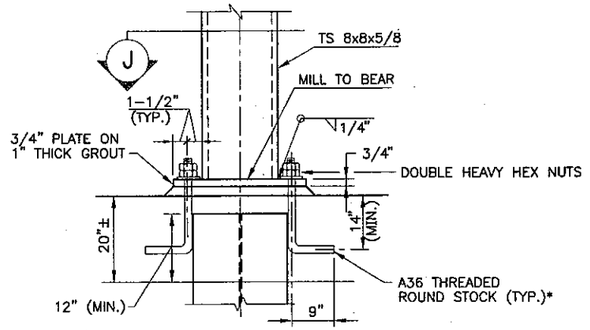
ELEVATION LOOKING EAST AT ISLANDS A, C
ELEVATION LOOKING WEST AT ISLAND N
3/8" = 1'-0"

ISLAND	"A"	"B"	"C"	"D"	"E"
A	6'-11"	8'-1"	5'-3"	1'-8"	3'-0"
C	7'-7"	7'-5"	5'-8"	1'-11"	3'-7"
N	7'-0"	8'-0"	4'-10"	2'-2"	4'-5"

NOTE: FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION

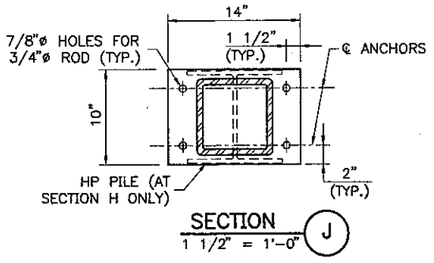


SECTION G
1 1/2" = 1'-0"

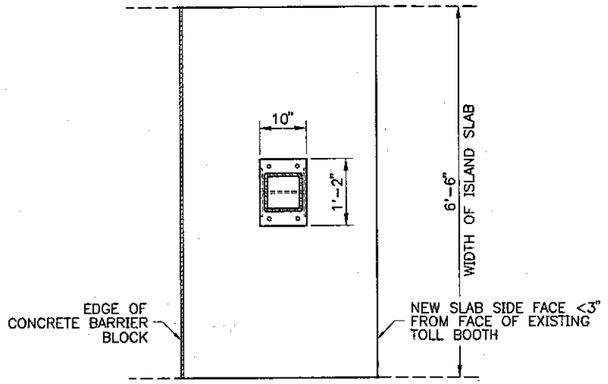


SECTION H
1 1/2" = 1'-0"

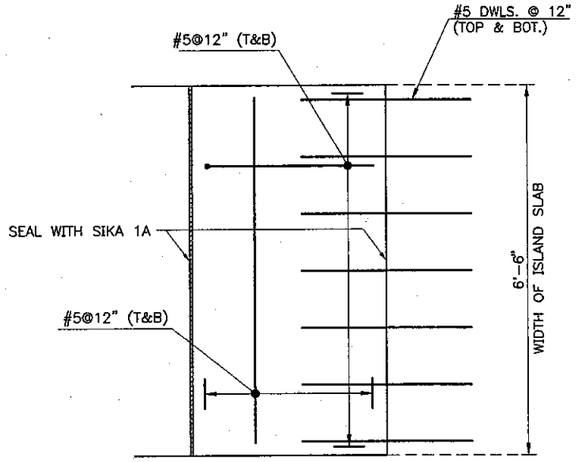
* USE 3/4"ø A36 THREADED ROUND STOCK, GALVANIZED, WITH THREADED END AT TOP AND 90° BEND AT BOTTOM



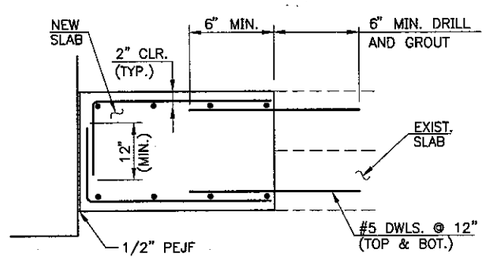
SECTION J
1 1/2" = 1'-0"



ISLAND PLAN VIEW AT NEW PILE LOCATION
3/4"=1'-0"



PLAN



ELEVATION

NOTE:
GROUT SHALL BE HSE 2421 EPOXY ADHESIVE AS MANUFACTURED BY HILTI, OR APPROVED EQUAL.

CONCRETE SLAB REINFORCEMENT
3/4"=1'-0"

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S4-ELEVATION.DWG 08/14/01 09:12

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB
ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

HNTB CORPORATION
2 Thomas Drive
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 772-7410

MAINE TURNPIKE AUTHORITY

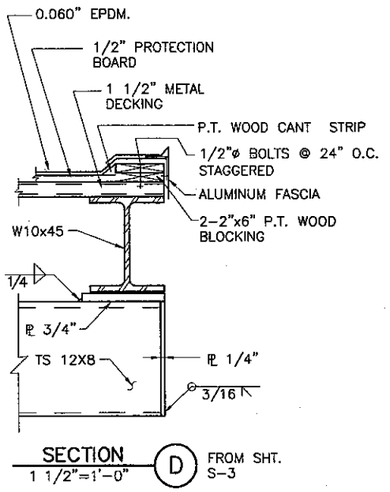
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA
CANOPY EXTENSION

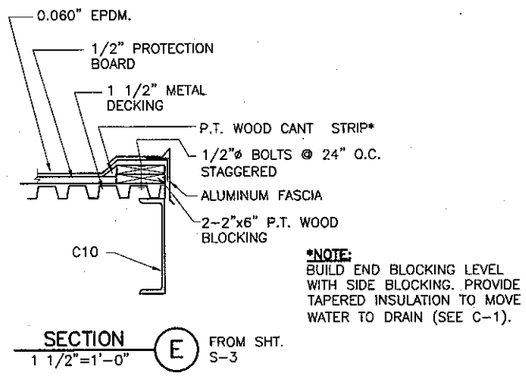
FRAMING DETAILS 1

SHEET NUMBER: S-4

CONTRACT: 2001.15

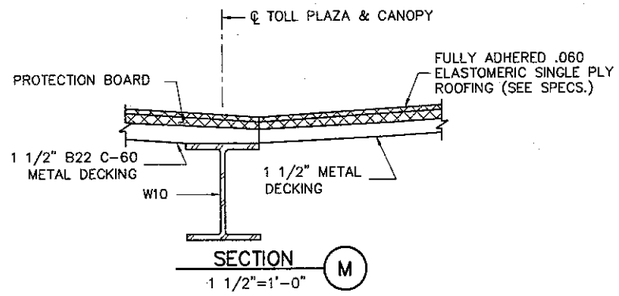


SECTION 1 1/2"=1'-0" (D) FROM SHT. S-3

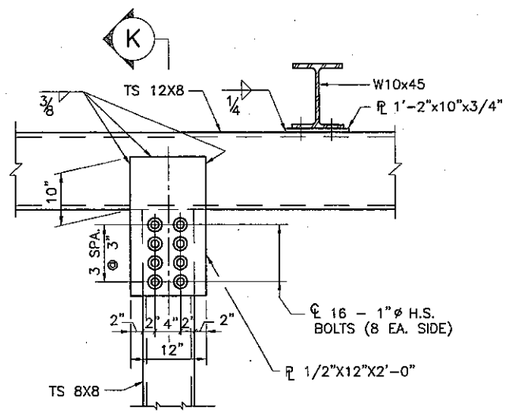


***NOTE:**
BUILD END BLOCKING LEVEL WITH SIDE BLOCKING. PROVIDE TAPERED INSULATION TO MOVE WATER TO DRAIN (SEE C-1).

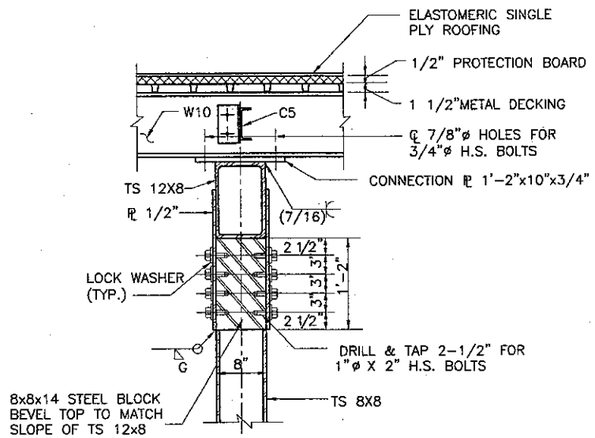
SECTION 1 1/2"=1'-0" (E) FROM SHT. S-3



SECTION 1 1/2"=1'-0" (M)



DETAIL A
1"=1'-0"



SECTION (K)
1"=1'-0"

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S5-DETAILS2.DWG 08/20/01 13:47

Scale: AS NOTED

Designed by: HNTB ARCHITECTS ENGINEERS PLANNERS

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

HNTB CORPORATION
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MAINE TURNPIKE AUTHORITY

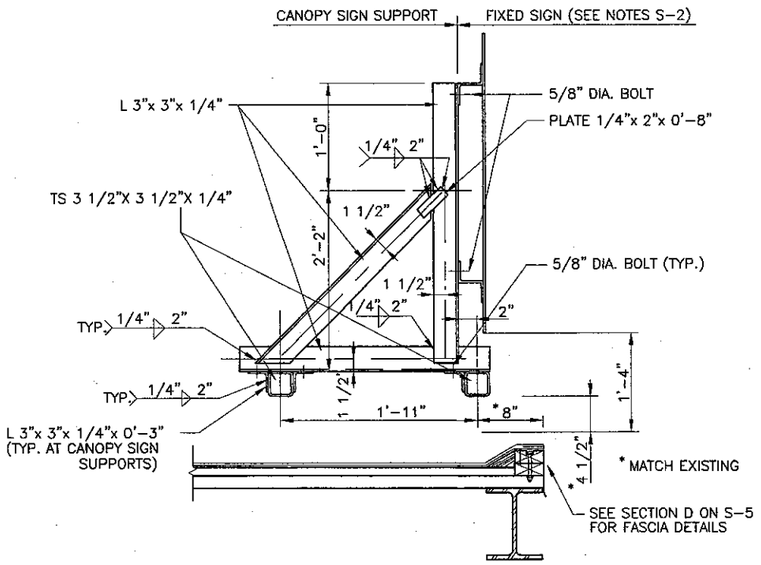
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA CANOPY EXTENSION

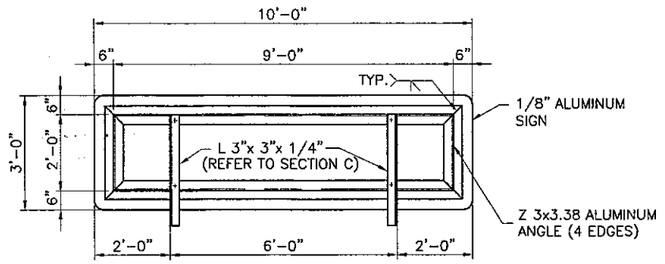
FRAMING DETAILS 2

SHEET NUMBER: S-5
7 OF 11

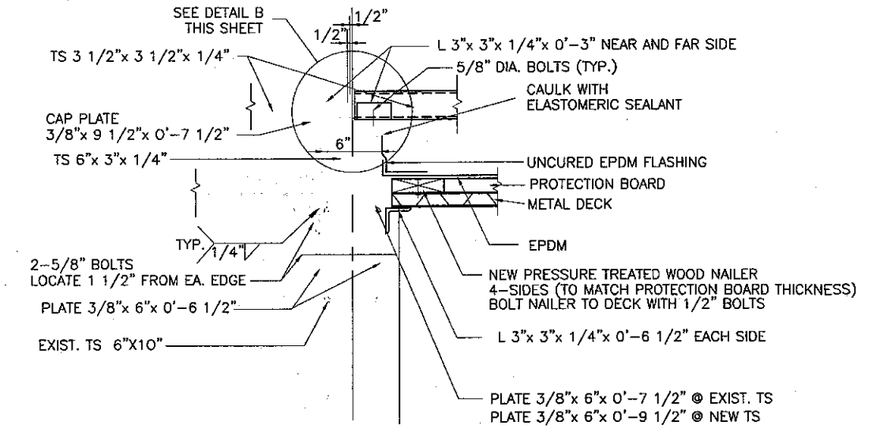
CONTRACT: 2001.15



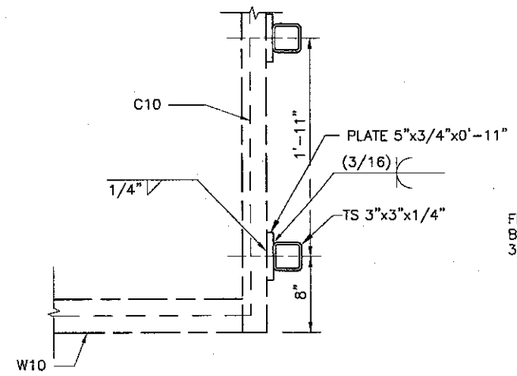
SECTION C
NOT TO SCALE



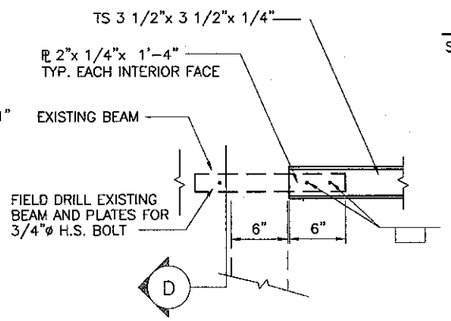
SIGN ELEVATION (REAR VIEW)
SCALE: 1/2" = 1'-0"



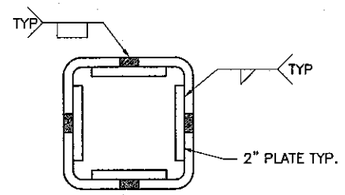
SECTION B
SCALE: 1 1/2" = 1'-0"



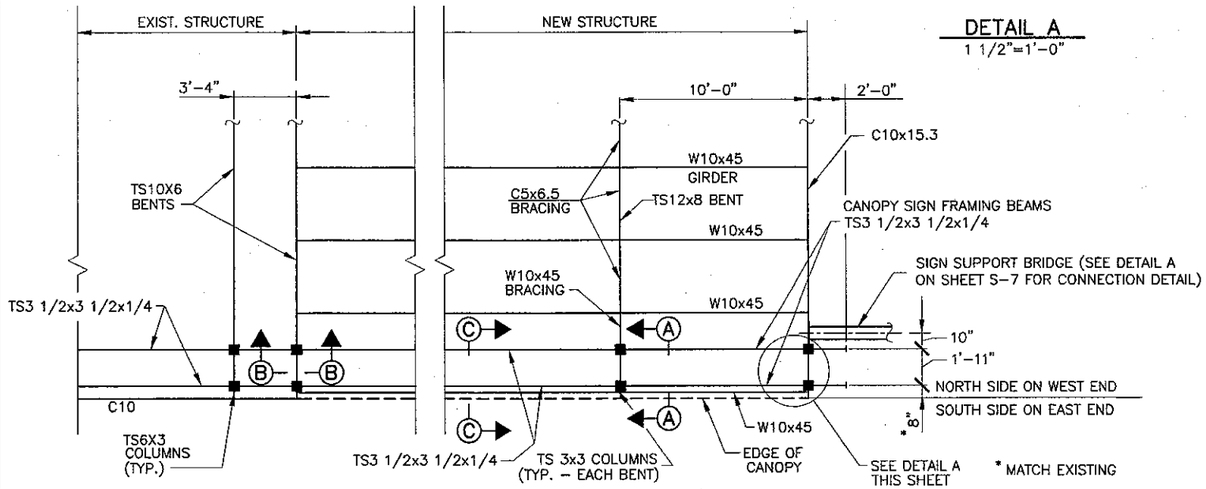
DETAIL A
1 1/2"=1'-0"



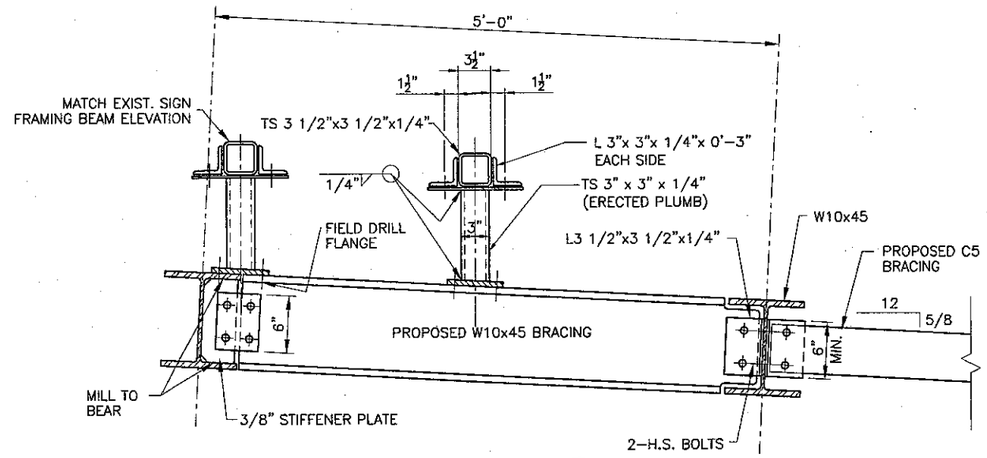
DETAIL B
SCALE: 1 1/2" = 1'-0"



SECTION D
SCALE: 6" = 1'-0"



ROOF SIGN SUPPORT FRAMING PLAN
SCALE: 1/4" = 1'-0"



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

NOTE: ROOF MATERIAL NOT SHOWN. SEE SECTION B FOR SIMILAR DETAIL

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S6-CSIGNS.DWG 08/14/01 10:51

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB
ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

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MAINE TURNPIKE AUTHORITY

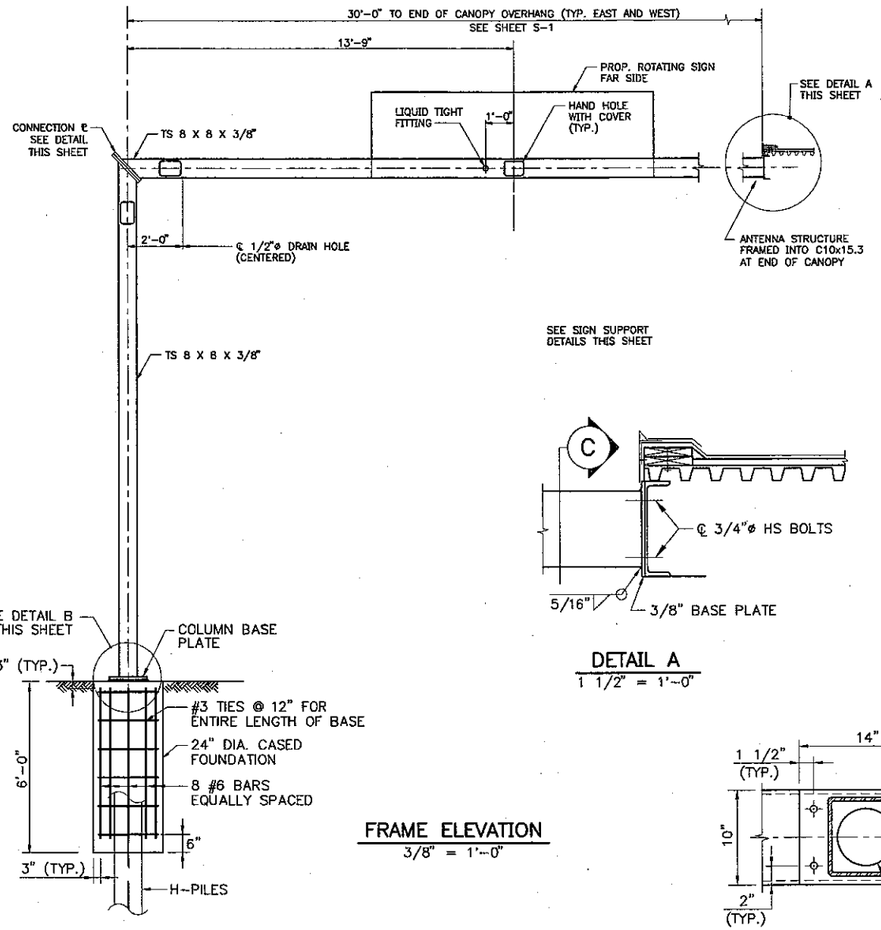
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA
CANOPY EXTENSION

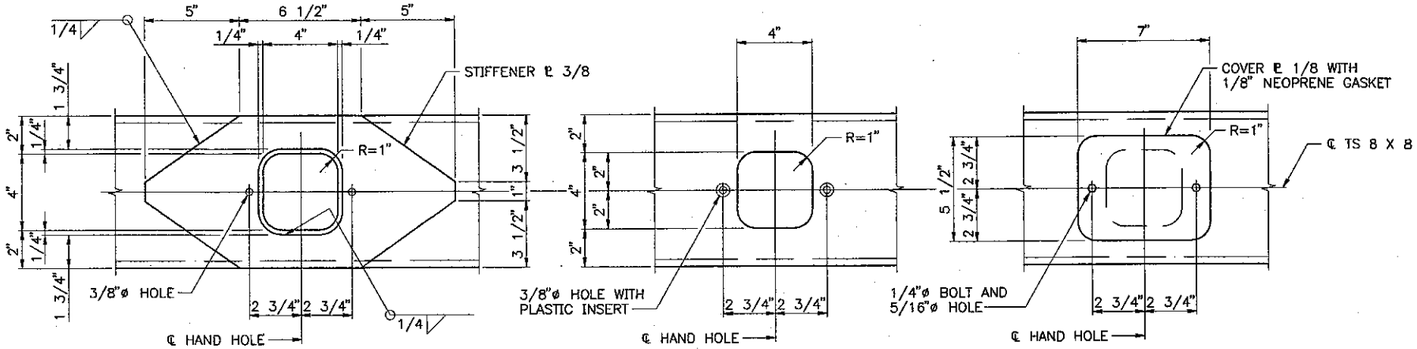
CANOPY SIGNS TYPICAL DETAILS

SHEET NUMBER: S-6
8 OF 11

CONTRACT: 2001.15



FRAME ELEVATION
3/8" = 1'-0"



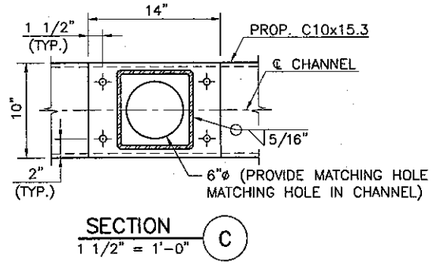
STIFFENER PLATE

HOLE

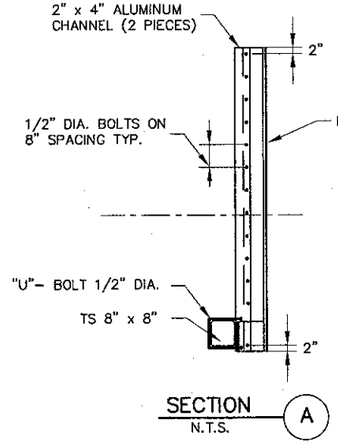
COVER

HAND HOLE DETAILS
3" = 1'-0"

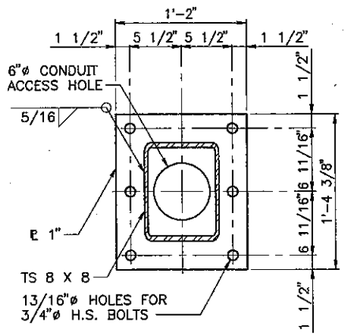
DETAIL A
1 1/2" = 1'-0"



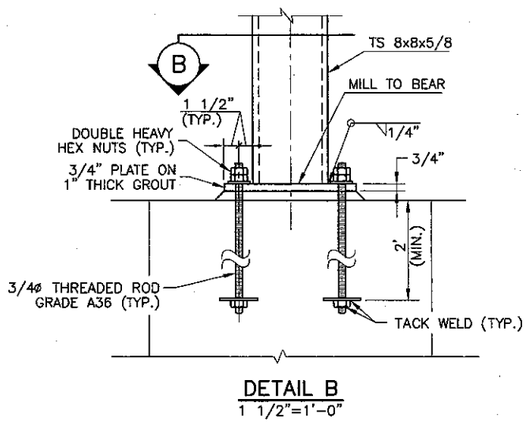
SECTION C
1 1/2" = 1'-0"



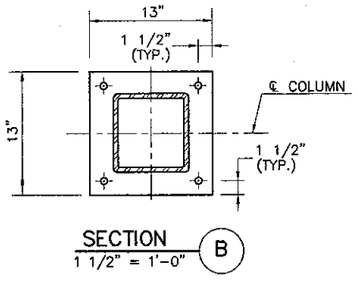
SECTION A
N.T.S.



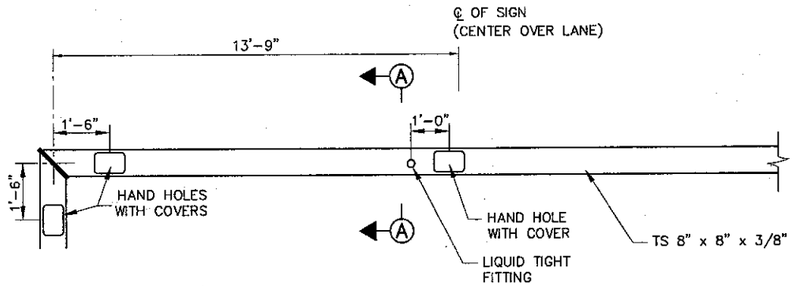
CONNECTION PLATE
1 1/2" = 1'-0"



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



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



SIGN SUPPORT STRUCTURE DETAIL
N.T.S.

H:\H09009XW\005\006 YORK CANOPY EXTENSION\S7-OVERHD1.DWG 08/20/01 15:50

No.	Revision	By	Date

Scale: AS NOTED

Designed by:

HNTB
ARCHITECTS ENGINEERS PLANNERS

	By	Date		By	Date
Designed	JMB	08/01	Checked	CAH	08/01
Drawn	TRC	08/01	In Charge of	RAL	08/01

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MAINE TURNPIKE AUTHORITY

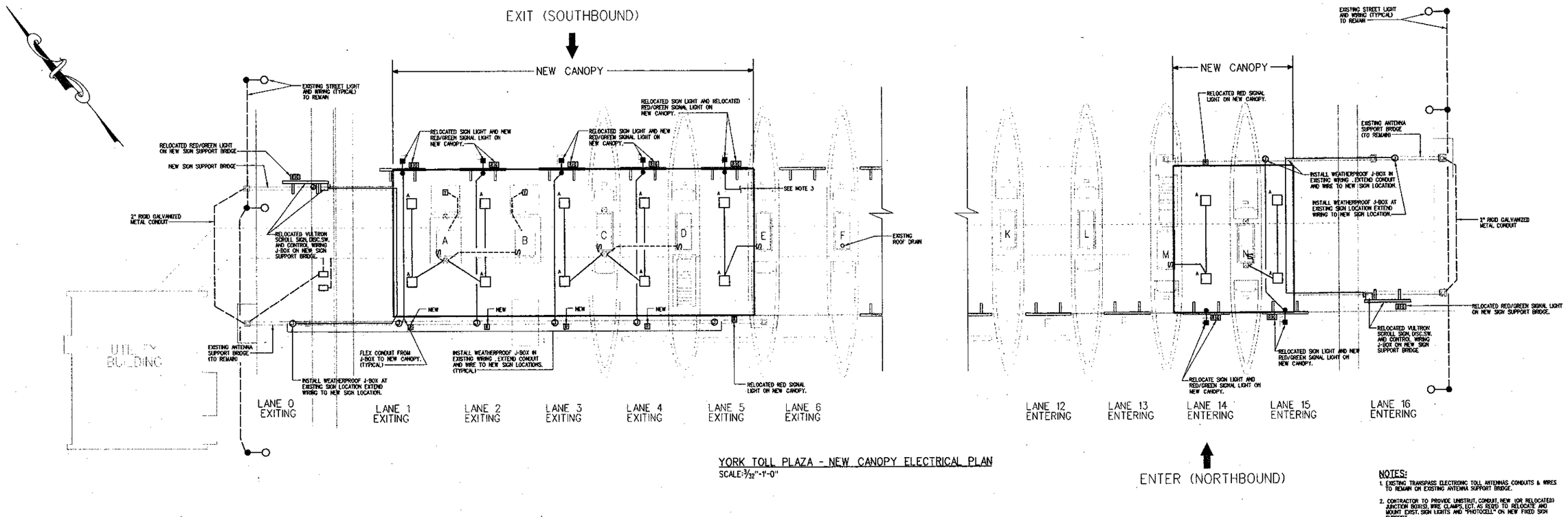
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA
CANOPY EXTENSION

OVERHEAD SIGN SUPPORT DETAILS

SHEET NUMBER: S-7

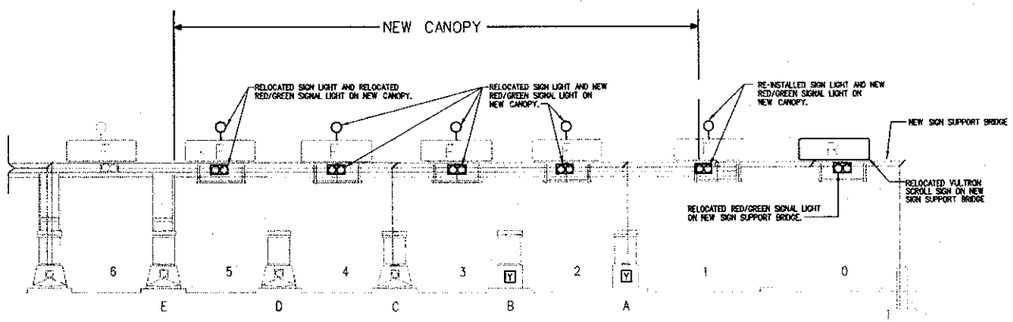
CONTRACT: 2001.15



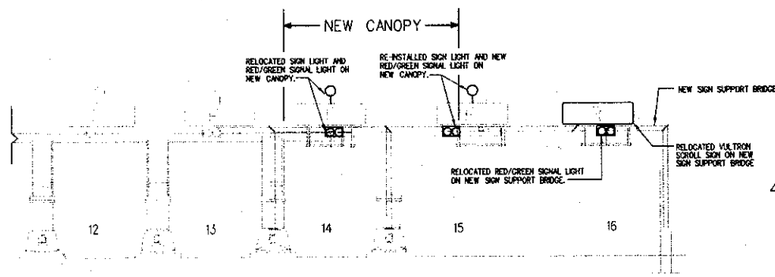
YORK TOLL PLAZA - NEW CANOPY ELECTRICAL PLAN
SCALE: 3/32"-1'-0"

NOTES:

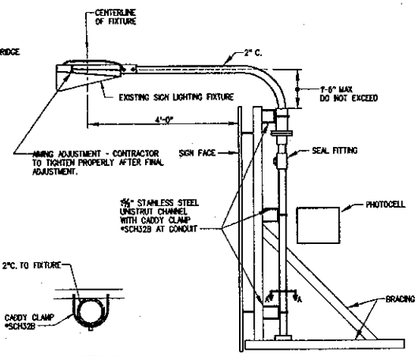
1. EXISTING TRANSPASS ELECTRONIC TOLL ANTENNAS CONDUITS & WIRES TO REMAIN ON EXISTING ANTENNA SUPPORT BRIDGE.
2. CONTRACTOR TO PROVIDE UNISTRUT, CONDUIT, NEW (OR RELOCATED) JUNCTION BOX(S), WIRE CLAMPS, ECT. AS REQ'D TO RELOCATE AND MOUNT EXIST. SIGN LIGHTS AND "PHOTOCELL" ON NEW FIXED SIGN SUPPORT.
3. LANE 5 CANOPY SIGN LIGHT FED FROM ISLAND E ACROSS EXISTING CANOPY.



YORK TOLL PLAZA ELEVATION - SOUTHBOUND
SCALE: 3/32"-1'-0"



YORK TOLL PLAZA ELEVATION - NORTHBOUND
SCALE: 3/32"-1'-0"



PLAN VIEW "A-A"
SCALE: NONE

FIXED SIGN LIGHT DETAIL
SCALE: NONE

SYMBOL LEGEND

- UNFUSED DISCONNECT SWITCH
- JUNCTION BOX
- LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE. (RTG)
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS.
- RACEWAY & WIRING RUN EXPOSED
- SHORT CROSS LINES INDICATE QUANTITY OF #12 AWG WIRES IN CABLE OR IN 3/4"Ø WHEN GREATER THAN TWO. ABSENCE OF CROSS LINES INDICATES 2 #12 AWG WIRES
- S — SINGLE POLE SWITCH,120 VOLT,20 AMP,SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF. 3-3-WAY,4-4-WAY,P-PILOT,WP-WEATHERPROOF. LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PILOT LIGHT SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE.
- (F) — FIXED SIGN
- (R) — VULTRON ROTATING SIGN (INTERNALLY LIT)

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	LITHONIA #GC13-100M-EP-QSR-SF(120V.)	1 - MXR100/C/U/MED 1 - QI100CL/DC	SURFACE MOUNT ON CANOPY - W/ QUARTZ RE-STRIKE. BALLAST RATED FOR - 20°F START OPERATION. SEE NOTE 1.
Y	IDC INDICATOR CONTROLS #WT11444T-3	ECOLUX D12Y46	AMBER TRAFFIC CONTROL LIGHT PEDESTAL MOUNT - ½" NPS - ON FLASHER MOUNTED UNDER COUNTER.
R	ECONOLITE #TP11VSG1PQ00	VERIFY WITH MFR.	RED 1 SECTION SIGNAL LIGHT FIXTURE - MOUNT ON NEW CANOPY
RG	ECONOLITE #TP26VSGPQ00	VERIFY WITH MFR.	RED/GREED 2 SECTION SIGNAL LIGHTING FIXTURE. - MOUNT ON NEW CANOPY/POLYCARBONATE
	EXISTING SIGN LIGHTING FIXTURE - TO BE RE-USED.		

NOTE:

1. QUARTZ LAMPS TO LIGHT WHEN TEMERATURE IS BELOW STARTING TEMPATURE FOR TYPE "A" FIXTURE (TO RAISE TEMPERATURE IN FIXTURE PERMITTING LAMP GAS TO IONIZE)

Scale:

No.	Revision	By	Date

Designed by:

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD, P.O. BOX 297, FREEPORT, MAINE 04032
(207) 865-6475

	By	Date		By	Date
Designed	WSB	8/01			
Drawn	SPD	8/01			

PE Stamp:

Approved by:

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MAINE TURNPIKE AUTHORITY

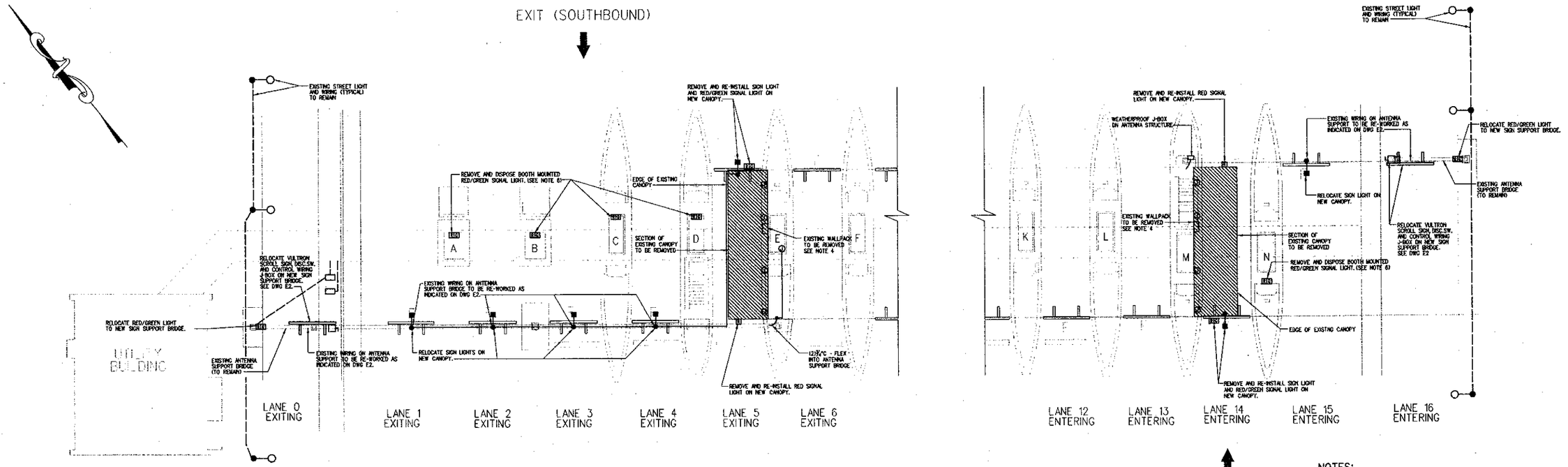
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA CANOPY EXTENSION

ELECTRICAL PLAN AND ELEVATIONS

SHEET NUMBER: E2 OF

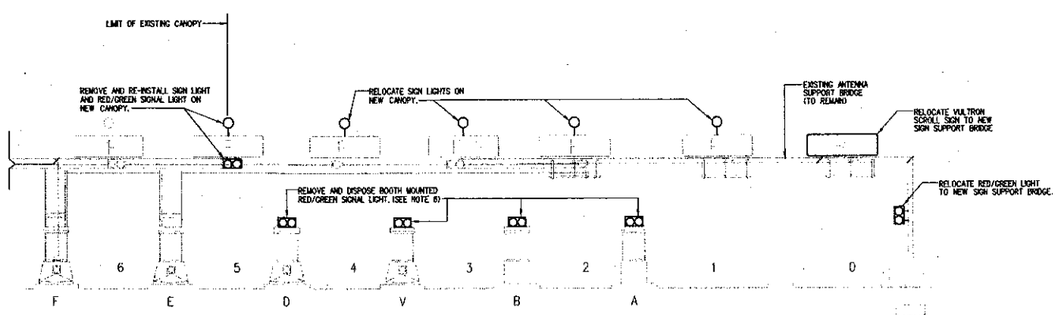
CONTRACT: 2001.15



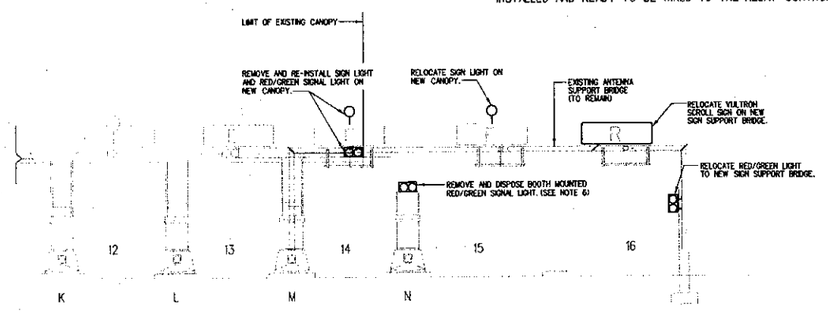
YORK TOLL PLAZA -ELECTRICAL DEMOLITION PLAN
SCALE: 3/32"=1'-0"

NOTES:

1. CONDUIT/WIRES FEEDING RED/GREEN LIGHTS IN LANE 0 & 16 FROM TUNNEL TO ELECTRIC PULL BOX ON ISLAND (BETWEEN LANES 0&1 /15&16) TO COLUMN BASE AND UP INTO TUBE STEEL COLUMN.
2. CONDUITS/WIRES FEEDING VULTRON SIGN IN LANE 0 FEED THROUGH EXISTING ANTENNA SUPPORT BRIDGE FROM BOOTH E.
3. CONDUITS/WIRES FEEDING VULTRON SIGN IN LANE 16 FEED THROUGH EXISTING SUPPORT BRIDGE FROM BOOTH M.
4. WALL PACKS TO BE REMOVED AND TURNED OVER TO PROJECT INSPECTOR FOR MTA USE.
5. PRIOR TO REMOVAL OF EXISTING CANOPY LIGHTS AND CONDUITS IN LANES 5 & 14 CONTRACTOR SHALL TRACE POWER CIRCUITS AND REROUTE (IF REQ'D) TO MAINTAIN POWER TO ADJACENT CANOPY SIGN, SIGN LIGHTS, TRANSPASS EQUIP., ETC.
6. BOOTH MOUNTED RED/GREEN SIGNAL LIGHTS SHALL NOT BE REMOVED UNTIL THE CANOPY IS ERECTED AND THE NEW RED/GREEN SIGNAL LIGHTS ARE INSTALLED AND READY TO BE WIRED TO THE RELAY CONTROL SWITCH.



YORK TOLL PLAZA ELEVATION - SOUTHBOUND
SCALE: 3/32"=1'-0"



YORK TOLL PLAZA ELEVATION - NORTHBOUND
SCALE: 3/32"=1'-0"

Scale:			
No.	Revision	By	Date

Designed by:

BENNETT ENGINEERING
CONSULTING ENGINEERS
BENNETT ROAD, P.O. BOX 297, FREEPORT, MAINE 04032
(207) 865-9475

	By	Date		By	Date
Designed	WSB	8/01			
Drawn	SPD	8/01			

PE Stamp:

Approved by:

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FAX (207) 772-7410

MAINE TURNPIKE AUTHORITY

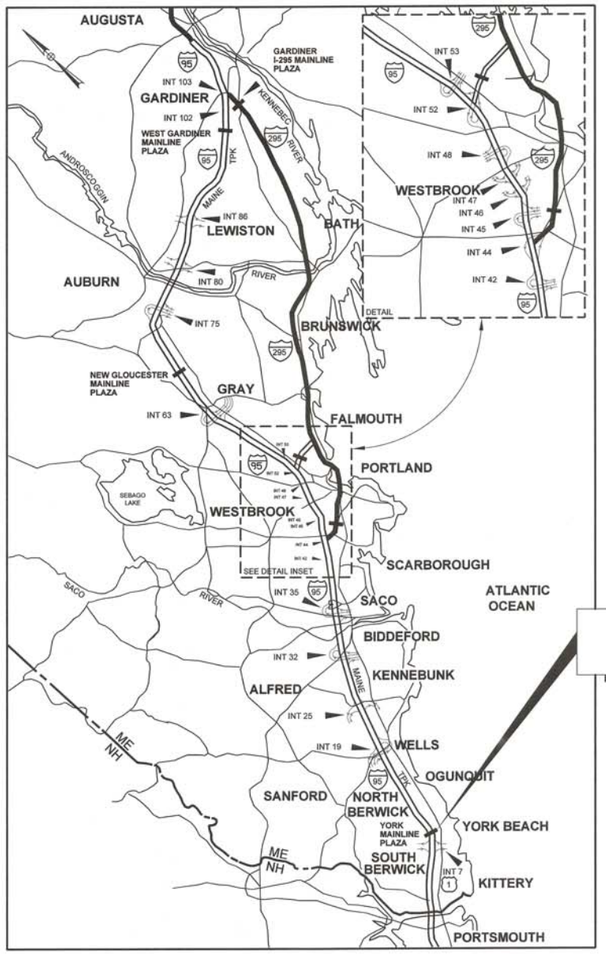
MAINE TURNPIKE Trans pass

YORK TOLL PLAZA CANOPY EXTENSION

ELECTRICAL DEMOLITION PLAN AND ELEVATIONS

SHEET NUMBER: E1
OF

CONTRACT: 2001.15



LOCATION MAP

CONTRACT 2018.22
YORK TOLL PLAZA
PAVING REHABILITATION
MILE 7.3

THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
JOHN E. DORITY, MEMBER
ANN R. ROBINSON, MEMBER
THOMAS J. ZUKE, MEMBER
KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

INDEX OF SHEETS

APPROVED:
MAINE TURNPIKE AUTHORITY

Peter S. Merfeld — 4/27/18
PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER — DATE

Stephen R. Tartre — 4/27/18
STEPHEN R. TARTRE, P.E., - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE — DATE

HNTB

STATE OF MAINE
ROLAND A. LAVALLEE
No. 6452
LICENSED PROFESSIONAL ENGINEER

Roland A. Lavallee — 4/25/18
ROLAND A. LAVALLEE P.E., PLS
VICE PRESIDENT
DIRECTOR OF OPERATIONS
DATE

CONTRACT 2018.22

Date:4/25/2018

Filename: 001_Title Sheet.dgn

GENERAL NOTES

1. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO START OF WORK.

2. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 5 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE TIME OF NOTIFICATION. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS.

THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

3. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATIONS).

4. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAY AND BRIDGES 2014, WITH LATEST REVISIONS, AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.

5. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" UNLESS OTHERWISE NOTED.

6. CHAMFER ALL EXPOSED CONCRETE EDGES ¾" UNLESS OTHERWISE NOTED.

7. WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS SPECIFIED THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINEDOT PREQUALIFIED LIST OF CONCRETE ADHESIVE ANCHORING MATERIALS. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST THE REQUIRED BAR LENGTHS AS REQUIRED.

8. THERE ARE NO PERMANENT OR TEMPORARY EASEMENTS ASSOCIATED WITH THIS PROJECT. ALL WORK SHALL BE COMPLETED WITHIN THE EXISTING RIGHT OF WAY.

9. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) TO THE RESIDENT PRIOR TO STARTING WORK.

10. ANY DAMAGE TO FINAL PAVEMENT, SLOPES, OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

DRAINAGE NOTES

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT APPROVAL OF THE RESIDENT.

EROSION CONTROL

1. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

2. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.

GUARDRAIL NOTES

1. AT THE END OF THE WORK DAY, EVERYDAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.

2. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.

3. FOR ALL NEW GUARDRAIL TYPE 3d, OFFSET BLOCKS SHALL BE NON-WOOD CONFORMING TO NCHRP 350 TEST LEVEL.

4. ALL PROPOSED GUARDRAIL AND RESET GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND UTILITIES.

EARTHWORK

1. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.

MATERIALS

CONCRETE

SUBSTRUCTURE CONCRETE REPAIR MATERIALS SHALL BE PER SPECIAL PROVISION 518. ALL OTHER CONCRETE SHALL BE CLASS AAA.

REINFORCING STEEL

ASTM A 615, GRADE 60

AASHTO M55 WELDED WIRE FABRIC

ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
202.202	Removing Pavement Surface - Mainline	SY	2600
202.2021	Removing Pavement Surface - Bridge Deck	SY	120
205.511	Widening of Existing Shoulder	LF	250
403.208	Hot Mix Asphalt, 12.5mm Nominal Maximum Size, RAP	TON	500
403.211	Hot Mix Asphalt, Shimming	TON	920
409.15	Bituminous Tack Coat, Applied	Gal	780
502.50	Structural Concrete Island Extension	CY	20
503.12	Reinforcing Steel, Fabricated and Delivered	LB	350
503.13	Reinforcing Steel, Placing	LB	350
503.16	Welded Steel Fabric, Fabricated, Complete and In Place	LB	150
518.801	Concrete Tunnel Slab Repairs	SF	140
604.181	Adjusting Manhole or Catch Basin to Grade	EA	2
606.24	Guardrail Type 3d - Single Rail	LF	137.5
606.3605	Guardrail - Remove, Modify and Reset, Single Rail	LF	112.5
606.3621	Guardrail - Adjust, Single Rail	LF	50
606.3631	Guardrail - Remove and Dispose	LF	137.5
627.802	Temporary Raised Pavement Markers	EA	600
629.05	Hand Labor, Straight Time	HR	20
631.10	Air Compressor (including operator)	HR	10
631.11	Air Tool (including operator)	HR	20
631.12	All Purpose Excavator (including operator)	HR	10
631.172	Truck - Large (including operator)	HR	10
631.36	Foreman	HR	20
645.109	Remove and Reset Sign	EA	6
652.30	Type III Barricade	EA	6
652.331	Drum	EA	90
652.35	Construction Signs	SF	230
652.361	Maintenance of Traffic Control Devices	LS	1
652.41	Portable- Changeable Message Sign	EA	3
652.45	Truck Mounted Attenuator	CD	35
652.451	Automated Trailer Mounted Speed Limit Sign	CD	35
655.04	Installation of Sensor Loops	LS	1
656.632	30 Inch Temporary Silt Fence	LF	300
659.10	Mobilization	LS	1

LIST OF ABBREVIATIONS

ABUT. - ABUTMENT
ADDL. - ADDITIONAL
ALT. - ALTERNATE
APPROX. - APPROXIMATELY
BOT. - BOTTOM
BRG. - BEARING
CL. - CLEAR
℄ - CENTERLINE
CONC. - CONCRETE
CONSTR. - CONSTRUCTION
DEMO. - DEMOLITION
DIA. - DIAMETER
EA. - EACH
EB - EASTBOUND
E.F. - EACH FACE
EL. - ELEVATION
EQ. - EQUAL
EXIST. - EXISTING
EXP. - EXPANSION
F.F. - FAR FACE
JT. - JOINT
MAX. - MAXIMUM
MAINEDOT - MAINE DEPARTMENT OF TRANSPORTATION
MIN. - MINIMUM
MTA - MAINE TURNPIKE AUTHORITY
NB - NORTHBOUND
N.F. - NEAR FACE
N.T.S. - NOT TO SCALE
PED. - PEDESTAL
PGL - PROFILE GRADE LINE
℗ - PLATE
PROP. - PROPOSED
P.S.I. - POUNDS per SQUARE INCH
RDWY. - ROADWAY
SHLDR. - SHOULDER
SB - SOUTHBOUND
SP. - SPACES
STA. - STATION
T.&B. - TOP & BOTTOM
TPKE. - TURNPIKE
TYP. - TYPICAL
U.O.N. - UNLESS OTHERWISE NOTED
VERT. - VERTICAL
WB - WESTBOUND
W.P. - WORKING POINT

Date:4/30/2018

Filename: 002_GeneralNotes and Estimate Quantities.dgn

Scale:				Designed by: HNTB					
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.					
					By	Date		By	Date
				Designed	PEM	04/18	Checked	CAH	04/18
				Drawn	SLS	04/18	In Charge of	RAL	04/18

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MAINE TURNPIKE

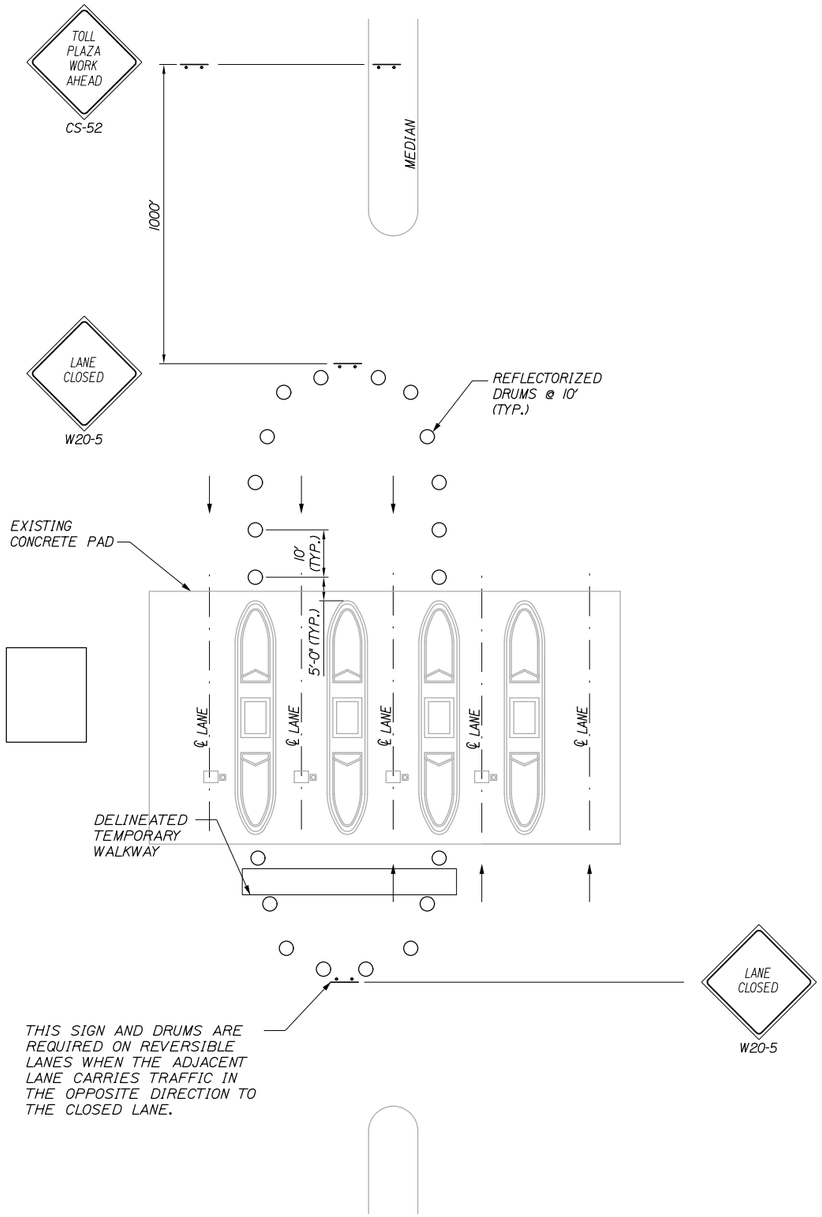
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

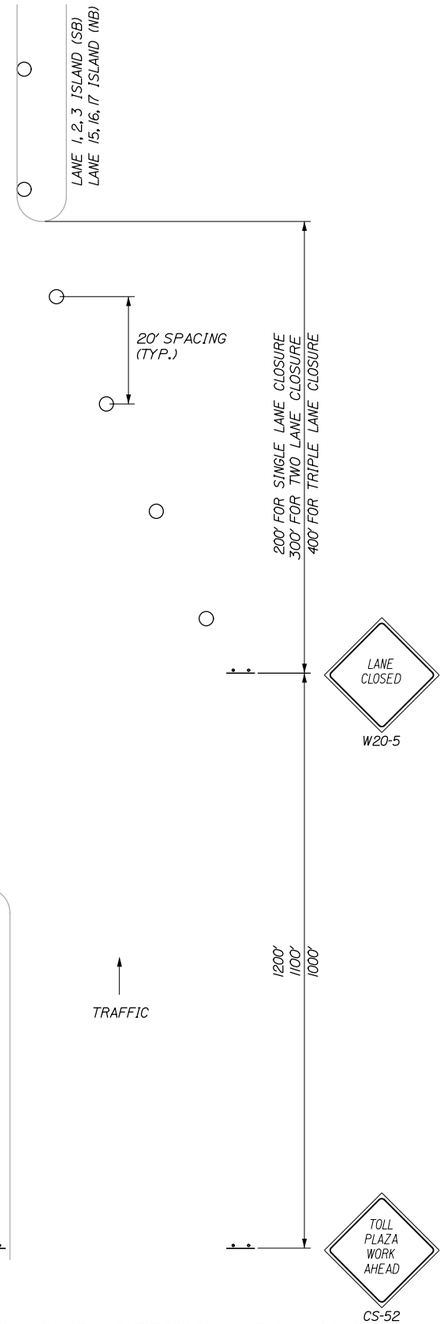
YORK TOLL PLAZA
PAVEMENT REHABILITATION
GENERAL NOTES AND ESTIMATED QUANTITIES

SHEET NUMBER: QT-1

CONTRACT:2018.22



YORK TOLL PLAZA INTERIOR LANE(S) CLOSURE
N.T.S.



YORK TOLL PLAZA EXTERIOR LANE(S) CLOSURE
N.T.S.

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-52	48"	48"	TOLL PLAZA WORK AHEAD	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			5	ORANGE	BLACK		16.00 (80.00)
W20-5	48"	48"	LANE CLOSED				8				16.00 (128.00)
* ALSO PROVIDE 10 - 10"x14" "DANGER" SIGNS AS SPECIFIED IN APPENDIX A - PLAZA SAFETY REQUIREMENTS.											1.00 (10.00)

NOTES:

1. A SINGLE LANE CLOSURE IS REQUIRED FOR CONSTRUCTION AND MAINTENANCE WORK IN THE LANE OR ON AN ISLAND.
2. CANOPY LIGHT ABOVE CLOSED LANE SHALL BE RED.
3. ALL CONSTRUCTION SIGNS SHALL BE 4'X4'.
4. ALL CONSTRUCTION SIGNS MAY BE MOUNTED ON EASELS.
5. CONTRACTOR SHALL MAINTAIN A 5' WIDE PATHWAY FOR MTA EMPLOYEES TO ACCESS PLAZA BUILDING AND TOLL BOOTHS TO CROSS WORK ZONES SAFELY DURING ALL PHASES OF WORK. THIS MAY REQUIRE BREAKS IN BARRIER, USE OF BARRELS, SAFETY TAPE DELINEATING PATHS AND TEMPORARY SIGNAGE. THE PATH SHALL BE LIGHTED FROM DUSK TO DAWN AND FREE FROM TRIP HAZARDS. LIGHTHING, SIGNAGE AND SAFETY TAPE SHALL BE INCIDENTAL TO ITEM 659.10 MOBILIZATION.
6. REFER TO APPENDIX A OF SPECIFICATIONS FOR PLAZA SAFETY REQUIREMENTS.

Date:4/30/2018

Filename: 003_Maintenance of Traffic.dgn

Scale: N.T.S.

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

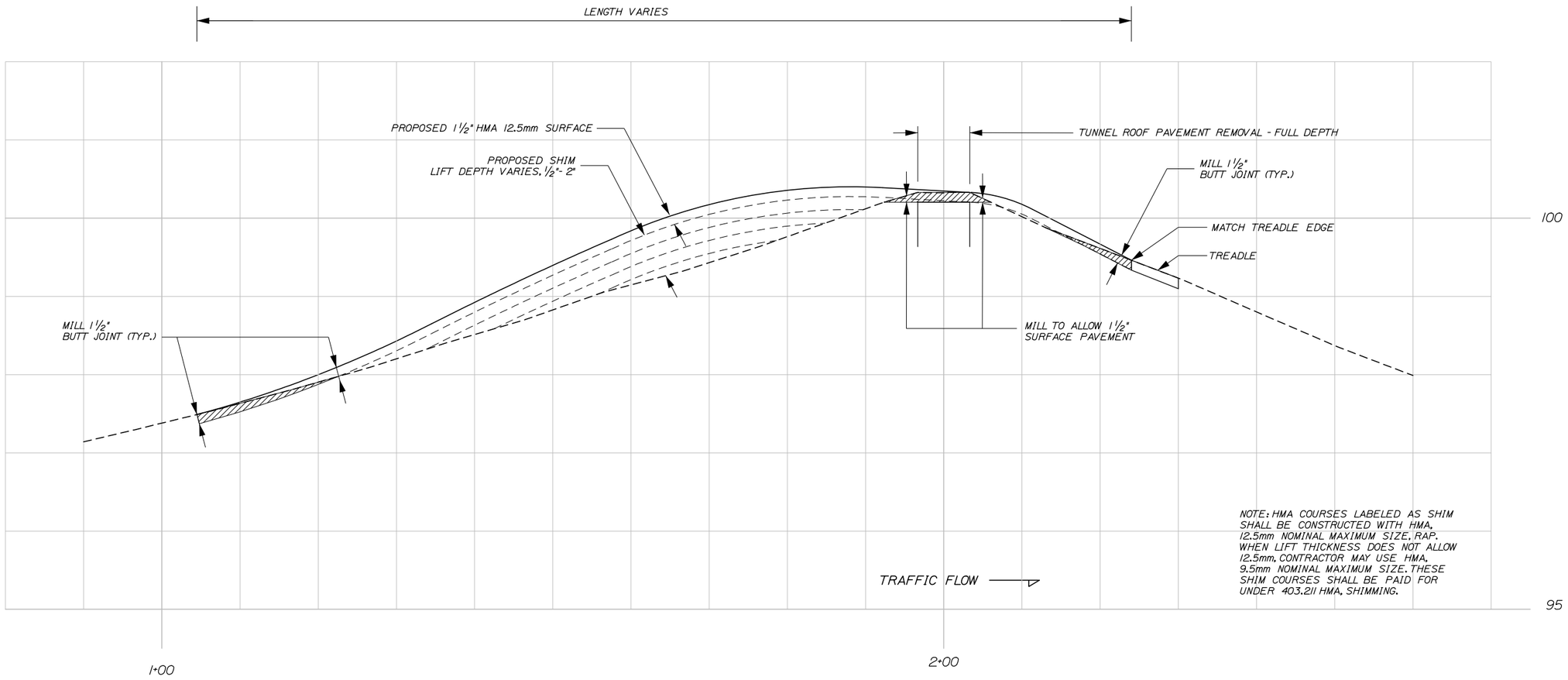
YORK TOLL PLAZA PAVEMENT REHABILITATION

MAINTENANCE OF TRAFFIC

SHEET NUMBER: MOT-1

CONTRACT:2018.22

Date:4/30/2018



TYPICAL PROFILE ADJUSTMENT
(NORTHBOUND SHOWN, SOUTHBOUND SIMILAR)
N.T.S.

Filename: 004_TypicalProfile.dgn

Scale:

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

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Designed	PEM	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

TYPICAL PROFILE ADJUSTMENT

SHEET NUMBER: D-1

CONTRACT:2018.22

Date:4/30/2018

℄ OF PLAZA/TUNNEL

1+00

2+00

3+00

112.50' GUARDRAIL REMOVE, MODIFY, AND RESET/ SHOULDER WIDENING

25.00' GUARDRAIL ADJUST - SINGLE RAIL

LANE 1

ADJUST CATCH BASIN TO GRADE

MILL AND FILL LANE ONE 18' TO END OF ISLAND

RECONSTRUCT ISLAND

REMOVE AND RESET SIGN

LANE 2

LANE 3

LANE 4

LANE 5

LANE 6

LANE 7

LANE 8

LANE 9

PROFILE ADJUSTMENT ON APPROACH AND DEPARTURE SIDES OF PLAZA TUNNEL SHALL BE PRECEDED BY PAVEMENT MILLING TO A DEPTH ALLOWING THE 1½" HMA SURFACE COURSE TO MEET PROPOSED SURFACE GRADE (TYP.)

EDGE OF TUNNEL SLAB

LEGEND:

LIMITS OF PROFILE ADJUSTMENT

REMOVING PAVEMENT SURFACE - BRIDGE DECK PROFILE ADJUSTMENT

MILL 1½" +/- AND PAVE 1½" +/-

SENSOR LOOP (LOCATION TO BE PROVIDED BY TRANSCORE)

Scale: 10 0 10 20 Scale of Feet

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

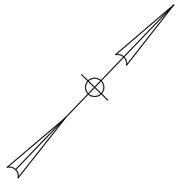
PLAN 1

SHEET NUMBER: H-1

CONTRACT:2018.22

Filename: 005_HDPlan1.dgn

Date:4/30/2018



LEGEND:

- LIMITS OF PROFILE ADJUSTMENT
- REMOVING PAVEMENT SURFACE - BRIDGE DECK PROFILE ADJUSTMENT
- MILL 1½" +/- AND PAVE 1½"
- SENSOR LOOP (LOCATION TO BE PROVIDED BY TRANSCORE)

PROFILE ADJUSTMENT ON APPROACH AND DEPARTURE SIDES OF PLAZA TUNNEL SHALL BE PRECEDED BY PAVEMENT MILLING TO A DEPTH ALLOWING THE 1½" HMA SURFACE COURSE TO MEET PROPOSED SURFACE GRADE (TYP.)

LANE 10
LANE 11
LANE 12
LANE 13
LANE 14
LANE 15
LANE 16
LANE 17

EDGE OF TUNNEL SLAB

CONTINUE 90' TO EDGE OF PAVEMENT

ADJUST CATCH BASIN TO GRADE
REMOVE AND RESET SIGN

RECONSTRUCT ISLAND

REMOVE EXCESS SHOULDER MATERIAL FOR DRAINAGE. PAID EXCAVATOR, TRUCK, AND HAND LABOR

25.00' GUARDRAIL - ADJUST SINGLE RAIL

137.50' REMOVE AND DISPOSE GUARDRAIL / SHOULDER WIDENING / INSTALL GUARDRAIL TYPE 3D

0+00 1+00 2+00

℄ OF PLAZA/TUNNEL

Filename: 006_HDPlan2.dgn

Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

PLAN 2

SHEET NUMBER: H-2

CONTRACT:2018.22

Date:4/30/2018

1+00

2+00

3+00

℄ OF PLAZA/TUNNEL

LANE 1 SHALL HAVE A 2% CROSS SLOPE

RECONSTRUCT ISLAND

LANE 1

LANE 2

LANE 3

LANE 4

LANE 5

LANE 6

LANE 7

LANE 8

LANE 9

EDGE OF TUNNEL SLAB

BENCHMARK ELEV. = 100.00'

99.82	100.39	100.25	99.40	98.29	97.17	96.06	94.98
99.78	100.35	99.51	98.29	97.10	96.09	95.30	94.13
99.91	100.39	100.23	99.51	98.66	97.68	96.68	95.83
99.85	100.35	99.59	98.62	97.68	96.85	96.20	95.71
99.90	100.36	100.20	99.55	98.76	97.80	96.89	
99.86	100.31	99.67	98.94	98.14	97.37	96.76	
99.90	100.35	100.19	99.61	98.88	97.93	97.20	
99.82	100.28	99.68	98.97	98.22	97.62	97.13	

SPOT GRADE LEGEND

PROPOSED ELEVATION ×

EXISTING ELEVATION

NOTE:
BENCHMARK REFERENCE FOR ALL LOCATIONS BASED ON LANE 10, SOUTH END OF ISLAND = ELEVATION 100.00' (LOCAL)

Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

PROPOSED GRADING PLAN 1

SHEET NUMBER: H-3

CONTRACT:2018.22

7 OF 11

Filename: 007_Grading1.dgn

Date:4/30/2018

BENCHMARK
ELEV. = 100.00'

98.24 / 98.18	99.15 / 98.71	99.99 / 99.26	100.23 / 99.80	100.32 / 100.29	99.73 / 99.69	LANE 10
98.07 / 97.90	99.06 / 98.51	99.94 / 99.15	100.30 / 99.76	100.37 / 100.32	99.67 / 99.61	LANE 11
97.19 / 97.02	98.05 / 97.63	98.92 / 98.37	99.80 / 99.10	100.38 / 99.74	100.42 / 100.35	99.58 / 99.58	LANE 12
						LANE 13
						LANE 14
						LANE 15
						LANE 16
96.36 / 96.22	97.12 / 96.73	97.97 / 97.44	98.82 / 98.33	99.66 / 99.23	100.37 / 100.02	100.40 / 100.35	100.15 / 100.11	LANE 17

EDGE OF TUNNEL SLAB

RECONSTRUCT ISLAND

1+00 2+00 3+00

LANE 17 SHALL HAVE A 2% CROSS SLOPE

℄ OF PLAZA/TUNNEL

SPOT GRADE LEGEND

PROPOSED ELEVATION
×
EXISTING ELEVATION

NOTE:
BENCHMARK REFERENCE FOR ALL LOCATIONS BASED ON LANE 10, SOUTH END OF ISLAND = ELEVATION 100.00' (LOCAL)

Filename: 008_Grading2.dgn

Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
Drawn	SLS	04/18	In Charge of	RAL	04/18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

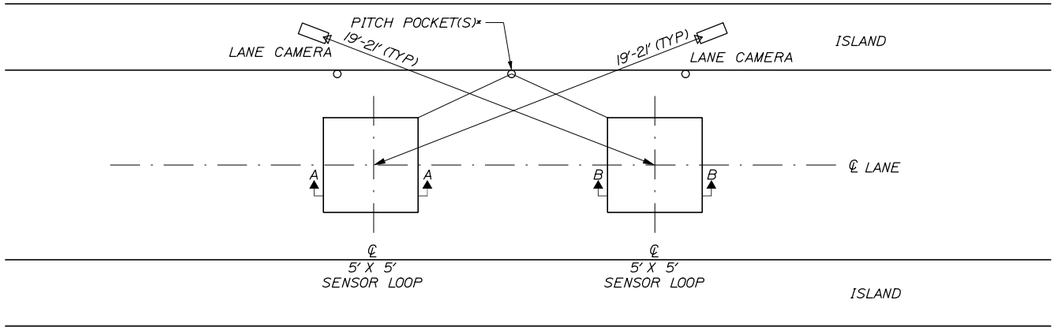
MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

PROPOSED GRADING PLAN 2

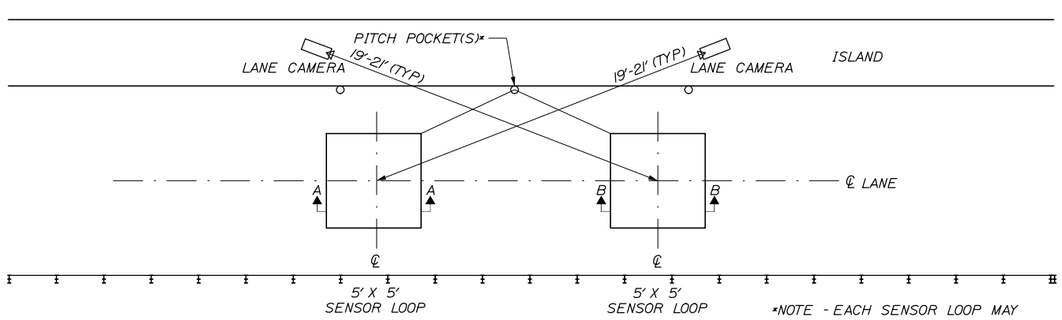
SHEET NUMBER: H-4

CONTRACT:2018.22



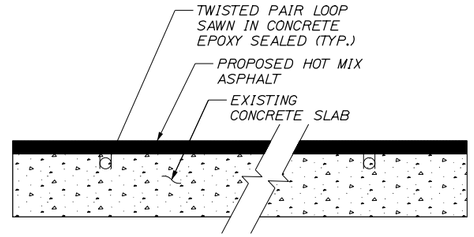
TYPICAL INTERIOR EZ PASS LANE

*NOTE - EACH SENSOR LOOP DETECTOR MAY TERMINATE IN A SEPARATE PITCH POCKET

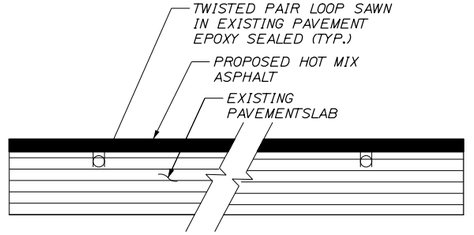


*NOTE - EACH SENSOR LOOP MAY TERMINATE IN A SEPARATE PITCH POCKET

TYPICAL EXTERIOR EZ PASS LANE



SECTION A-A
EMBEDDED IN CONCRETE SLAB



SECTION B-B
EMBEDDED IN EXISTING PAVEMENT

SENSOR LOOP INSTALLATION NOTES:

1. LOOP INFORMATION IS PROVIDED FOR BIDDING PURPOSES ONLY.
2. THE LOOPS MAY ENTER THE TUNNEL THROUGH SEPARATE EXISTING PITCH POCKETS.
3. THE LOOP WORK SHALL BE COORDINATED WITH TRANSCORE, THE AUTHORITY'S TOLL SYSTEM PROVIDER. PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL CONTACT TRANSCORE AND HAVE THEM CONFIRM THE LOCATION AND LAYOUT OF THE EXISTING AND PROPOSED LOOPS. CALL 1-207-797-2902 TO REACH TRANSCORE. A MINIMUM 24 HOUR NOTICE IS REQUIRED.
4. THE CONTRACTOR SHALL SAW THE LOOPS AS MARKED BY TRANSCORE, SET THE TWISTED PAIRS, AND EPOXY THEM IN PLACE, AND EXTEND THE LOOPS TO THE TERMINATION POINT(S) IN THE TUNNEL. TRANSCORE SHALL MAKE THE FINAL TERMINATION TO THE EZ-PASS EQUIPMENT.
5. ALL SENSOR LOOPS SHALL BE SAWN IN THE CONCRETE OR PAVEMENT, EPOXIED IN PLACE, TERMINATED IN THE TUNNEL, AND TESTED PRIOR TO THE FINAL LIFT OF PAVEMENT BEING PLACED.
7. TWO SENSOR LOOPS ARE REQUIRED IN EACH EZ-PASS LANE. EZ-PASS LANES ARE ARE LANES 1,6,7,8,10,11,12, AND 17.

Date:4/30/2018

Filename: 009_Sensor Loop Installation Details.dgn

Scale:

No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	PEM	04/18	Checked	CAH	04/18
Drawn	SLS	04/18	In Charge of	RAL	04/18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

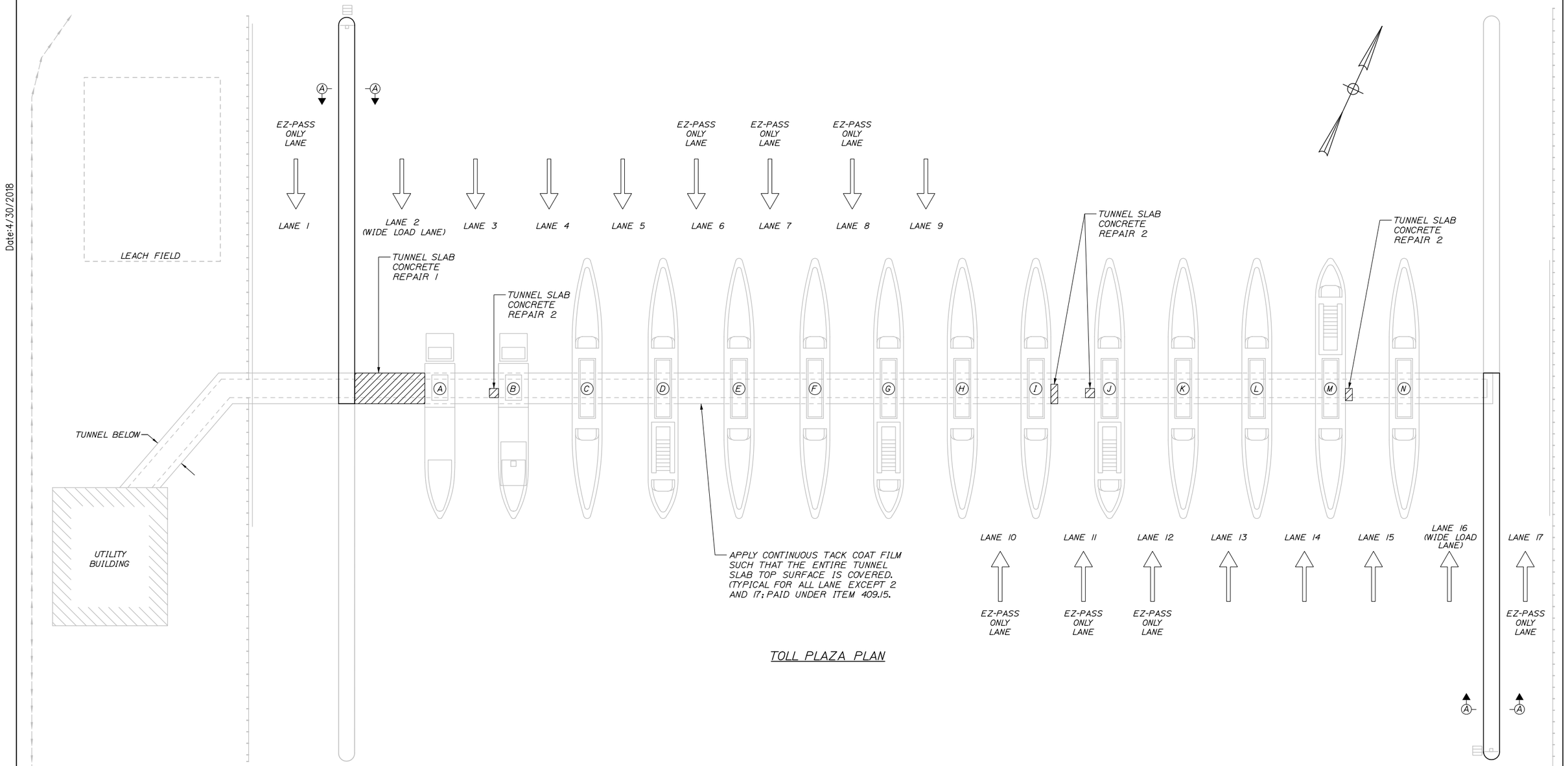
YORK TOLL PLAZA
PAVEMENT REHABILITATION

SENSOR LOOP INSTALLATION DETAILS

SHEET NUMBER: SL-1

CONTRACT:2018.22

Date:4/30/2018



TOLL PLAZA PLAN

Filename: 010_Pavement Repair Plan.dgn

Scale:			
No.	Revision	By	Date

Designed by: HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	BRG	04/18	Checked	CAH	04/18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

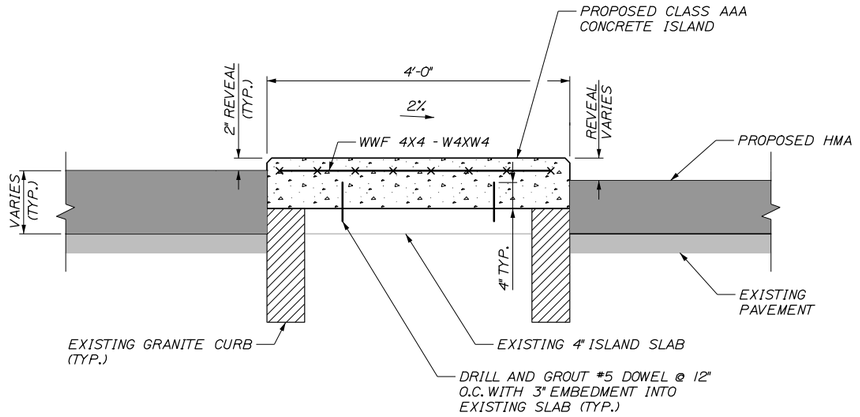
MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

TUNNEL SLAB REPAIR PLAN

SHEET NUMBER: S-01

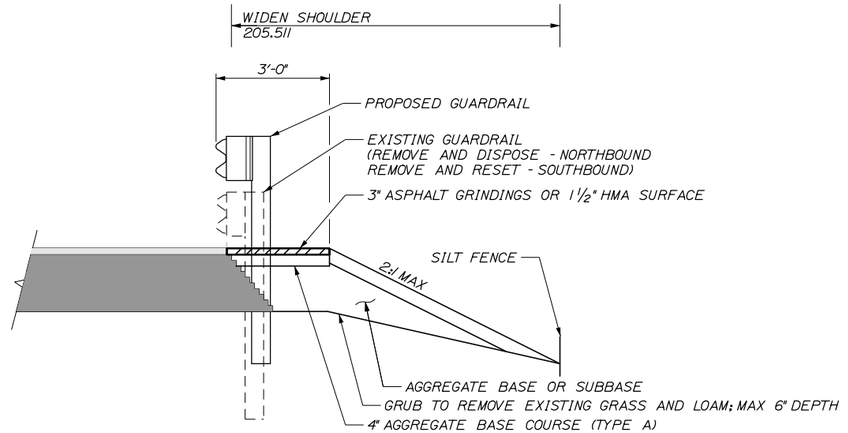
CONTRACT:2018.22



SECTION A-A

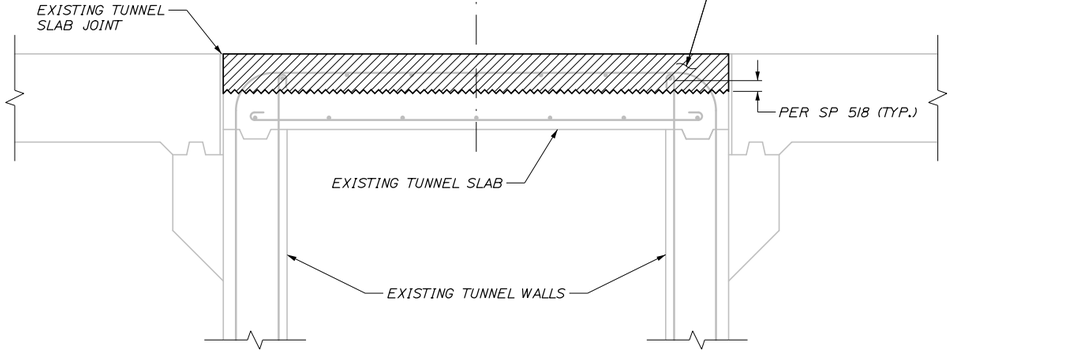
1" = 1'-0"

NOTE: PROPOSED CONCRETE ISLAND ELEVATIONS SHALL BE SET 2" ABOVE LANE 2 AND 16 SPOT ELEVATIONS SHOWN ON SHEETS 7 AND 8 RESPECTIVELY



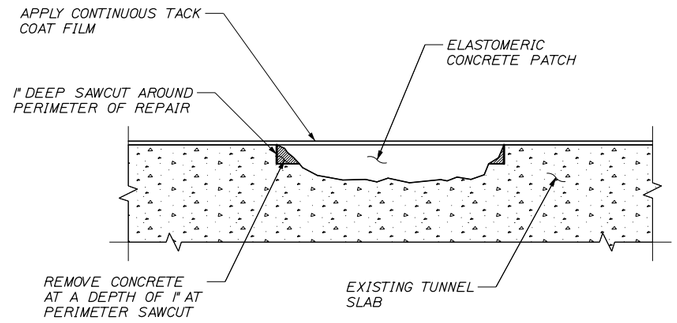
SHOULDER RECONSTRUCTION

NTS



TUNNEL SLAB CONCRETE REPAIR 1

LANE 2
1" = 1'-0"



TUNNEL SLAB CONCRETE REPAIR 2

LANE 3, LANE 11, LANE 15
3" = 1'-0"

TUNNEL SLAB CONCRETE REPAIR NOTES:

1. FOR APPROXIMATE LOCATIONS OF TUNNEL SLAB REPAIRS SEE SHEET S-01. ACTUAL REPAIR AREAS WILL BE DETERMINED BY THE RESIDENT DURING CONSTRUCTION.

2. PRIOR TO THE START OF CONCRETE REPAIRS THE RESIDENT AND THE CONTRACTOR SHALL SOUND ALL TUNNEL SLAB SURFACES AND AGREE ON THE REPAIR LIMITS.

3. PERFORM 1" DEEP SAW CUTS ALONG THE LIMITS OF REMOVAL.

4. CHIP CONCRETE TO THE DEPTH SPECIFIED IN SUPPLEMENTAL SPECIFICATION 518. IF THE REMOVAL LIMITS CHANGE DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE REMOVAL.

5. PREPARE AND PATCH REPAIR AREAS. SEE SPECIFICATIONS FOR SURFACE PREPARATION, MATERIALS, PLACEMENT AND CURING REQUIREMENTS.

6. ALL WORK SHALL BE ACCOMPLISHED USING THE CONSTRUCTION SEQUENCE PRESENTED IN THE MAINTENANCE OF TRAFFIC DETAILS AND THE SPECIFICATIONS.

Date:4/30/2018

Filename: 011_Pavement Repair Details.dgn

Scale:

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale Mitchell, P.E.

	By	Date		By	Date
Designed	BRG	04/18	Checked	CAH	04/18
Drawn	PEB	04/18	In Charge of	RAL	04/18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Peter S. Merfeld, P.E.

YORK TOLL PLAZA PAVEMENT REHABILITATION

TUNNEL SLAB REPAIR AND SHOULDER RECONSTRUCTION DETAILS

SHEET NUMBER: S-02

CONTRACT:2018.22