

3-7-08 Letting, Item 139

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 5

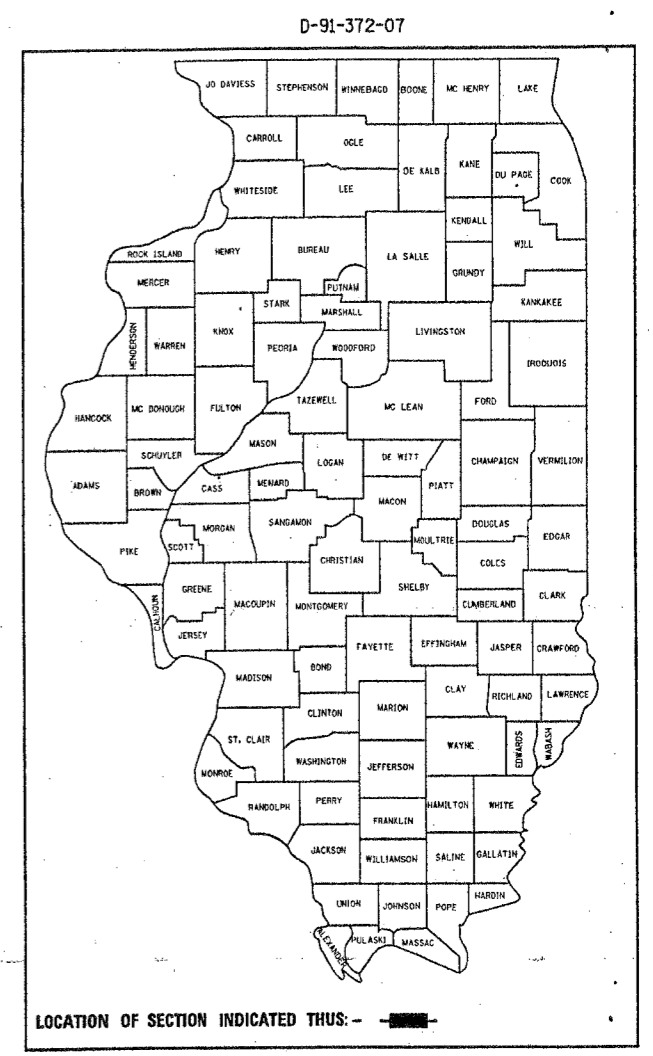
IMPROVEMENTS ARE LOCATED IN THE CITY OF CHICAGO, AND IN THE VILLAGES OF BURR RIDGE, MONEE, RICHTON PARK, SKOKIE, & TINLEY PARK

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION: 2007-040 I
PERMANENT PROTECTIVE SHIELDING
COOK & WILL COUNTIES
C-91-372-07

- LOC 1 SN 016-0823
- LOC 2 SN 016-2070, -2071
- LOC 3 SN 016-0587
- LOC 4 SN 016-0927
- LOC 5 SN 016-0575
- LOC 6 SN 099-0192
- LOC 7 SN 099-0159
- LOC 8 SN 099-0177

FOR LOCATION MAPS SEE SHEETS 2 - 4



J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811
C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

PROJECT ENGINEER ROBERT BORO (847) 705-4178
PROJECT MANAGER KEN ENG
CONTRACT NO. 60D28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 24 20 07

Dave O'Leary
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 20 08
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ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 20 08
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DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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STATE STANDARDS

- 701006-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
- 701400-02 LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH
- 701401-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-04 LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS > MPH
- 701446 TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901 TRAFFIC CONTROL DEVICES

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000, OR "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (1-800)-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTREIC, TELEPHONE AND GAS UTILITIES, (48 HOUR NOTIFICATION IS REQUIRED).

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

THE CONTRACTOR SHALL CONTRACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORKS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECIEVED FROM BRIDGE INSPECTORS.

THE CONTRACTOR SHALL BE AWARE THAT SOME LOCATIONS HAVE UTILITY CONDUITS. ANY DAMAGE TO THE CONDUITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE. THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO FIT AROUND THE CONDUITS. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES. SOME EXISTING CONDUIT MAY CONTAIN ASBESTOS. APPROPRIATE PRECAUTIONS SHALL BE TAKEN.

THE CONTRACTOR SHALL RELOCATE ANY CONDUIT ATTACHED TO THE FLANGE PRIOR TO THE INSTALLATION OF THE PROTECTIVE SHIELDING. UNDER NO CIRCUMSTANCES SHALL THE PROTECTIVE SHIELDING REST ON TOP OF THE CONDUIT.

ANY WORK DONE BY THE CONTRACTOR ON THE UNDERPASS LIGHTING SYSTEM WILL REQUIRE A TRANSFER OF MAINTENANCE OF THE EFFECTED CIRCUITS TO THE CONTRACTOR. ALTERNATIVELY, THE CONTRACTOR CAN AVOID A MAINTENANCE TRANSFER BY HIRING THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC) TO RELOCATE THE CONDUIT.

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS,

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

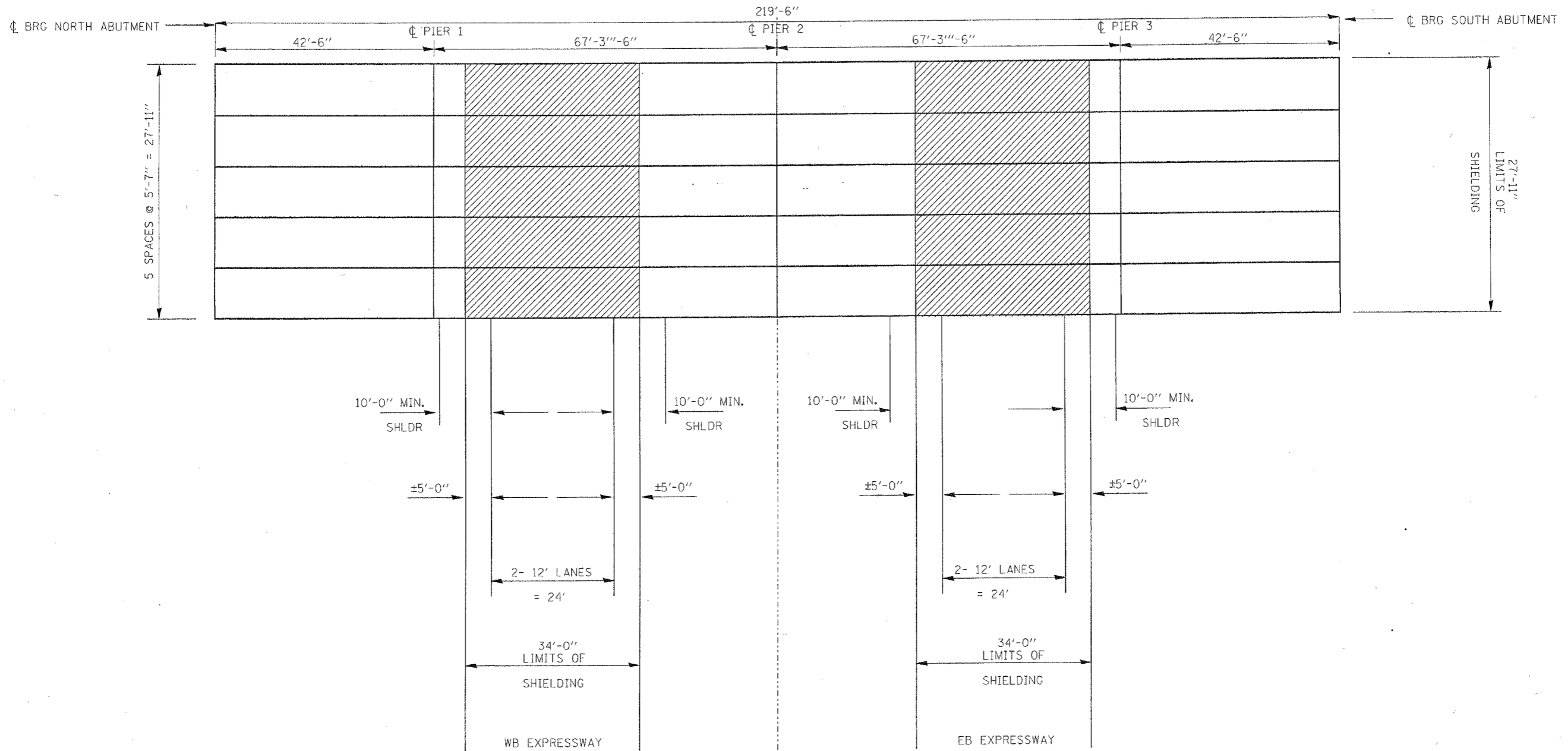
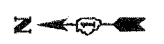
THE CONTRACTOR SHALL ADJUST THE PROTECTIVE SHIELDING TO RIDE ABOVE THE EXISTING LIGHTING FIXTURES IN ORDER TO MAINTAIN THE EXISTING LEVEL OF LIGHTING OF THE ROADWAY UNDERNEATH. DETAILS SHALL BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. A CLEARANCE OF 1 1/2 " ± 1/4 " AROUND THE FIXTURE SHALL BE PROVIDED FOR FUTURE MAINTENANCE.

ANY ADJUSTMENT DONE TO THE PROTECTIVE SHIELD SYSTEM MUST RESULT ON A SYSTEM WITH AN EQUIVALENT LOAD CARRYING CAPACITY AND CONTAINMENT AS THE ONE SHOWN ON SHEET 16 OF 19.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

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				SCALE: SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 60D28 FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

☐ F.A.I. RTE. I - 94



FRAMING PLAN

▨ - INDICATES PROTECTIVE SHIELDING

FILE NAME =
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USER NAME = hamdonah
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PLOT SCALE = 50.0000' / 1"
PLOT DATE = 12/21/2007

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

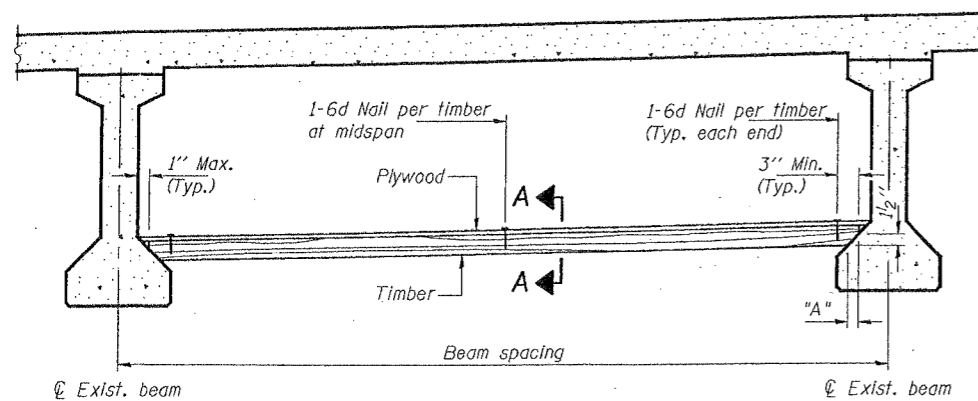
STRUCTURE PLAN
WOLF RD OVER I-80
LOCATION 6: SN 099-0192
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2007-040 1	COOK / WILL	19	13
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D28	

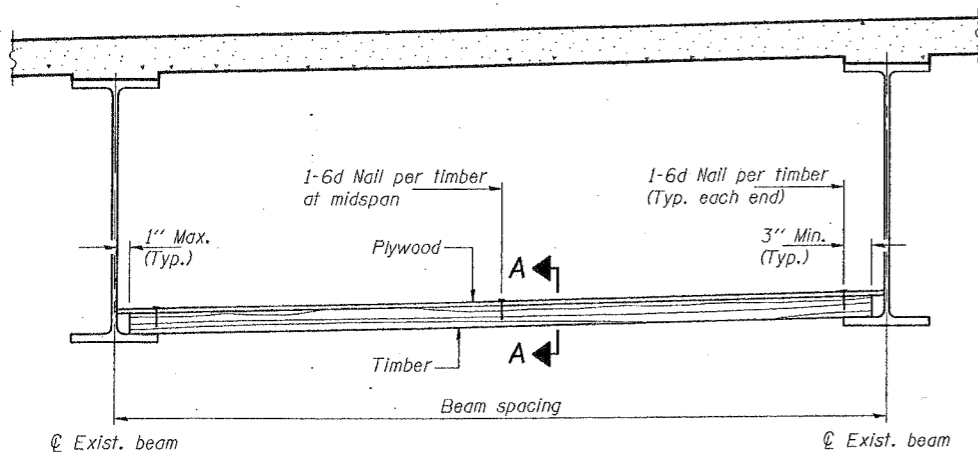
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
VAR	2007-0401	COOK/WILL	19	16	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

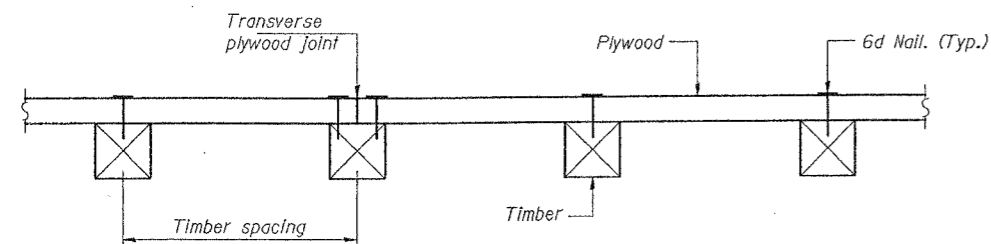
Contract Number: 60D28



PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T's

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

Notes: See special provision for Permanent Protective Shield System.
Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
All timber shall be treated.
Plywood shall be 5/8" Exterior type plywood.
Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
Transverse plywood joints shall be supported by timbers.
When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	5052

PERMANENT PROTECTIVE SHIELD