



## **STADIO OLIMPICO IN ROMA**

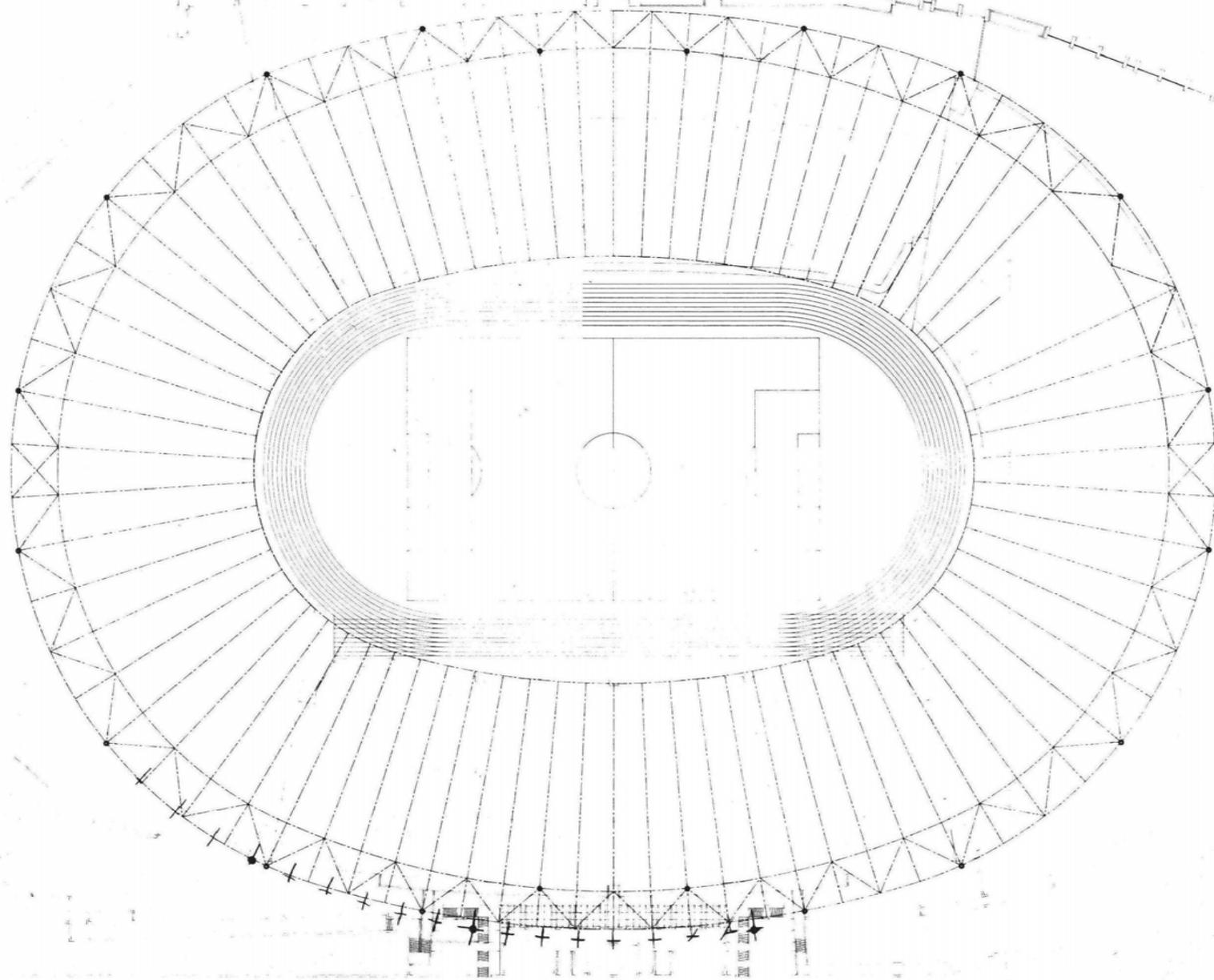
*Appalto di progettazione esecutiva e di costruzione inerente la Ritesatura della tensostruttura di copertura, gli interventi a carattere straordinario sulle opere strutturali, la manutenzione ordinaria ed il monitoraggio delle strutture, i lavori di manutenzione e di ripristino dei danni causati da atti vandalici, per 60 mesi decorrenti dal verbale di consegna lavori.*

### **PROGETTO DEFINITIVO – SCHEMI GRAFICI C.S.T.**

**Schemi Grafici C.S.T. - Riferimento 1988 – agg. 1994**

*Progettista:  
Ing. Lucio Scorretti  
Ordine Ingegneri Roma  
Numero A8946*

*Settembre 2015*

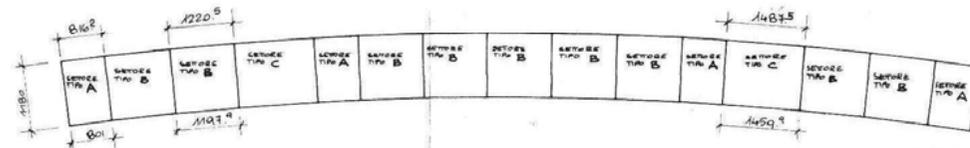


IMMOBILE: <b>STADIO OLIMPICO</b>		<p>Tribuna M. Mario Curva Sud Tribuna Tevere Curva Nord</p>
SPECIFICA: <b>COBERTURA PLANI METRIA</b>		
TAVOLA N. <b>C. AR.</b>	DATA: Novembre 2004	

TRIBUNA TEVERE PIANTA 1:500

SETTORE TIPO B PIANTA 1:50

TRAVE BORDO SUPERIORE IN LEGNO LAMELLARE SEZ. 20 x 66,8

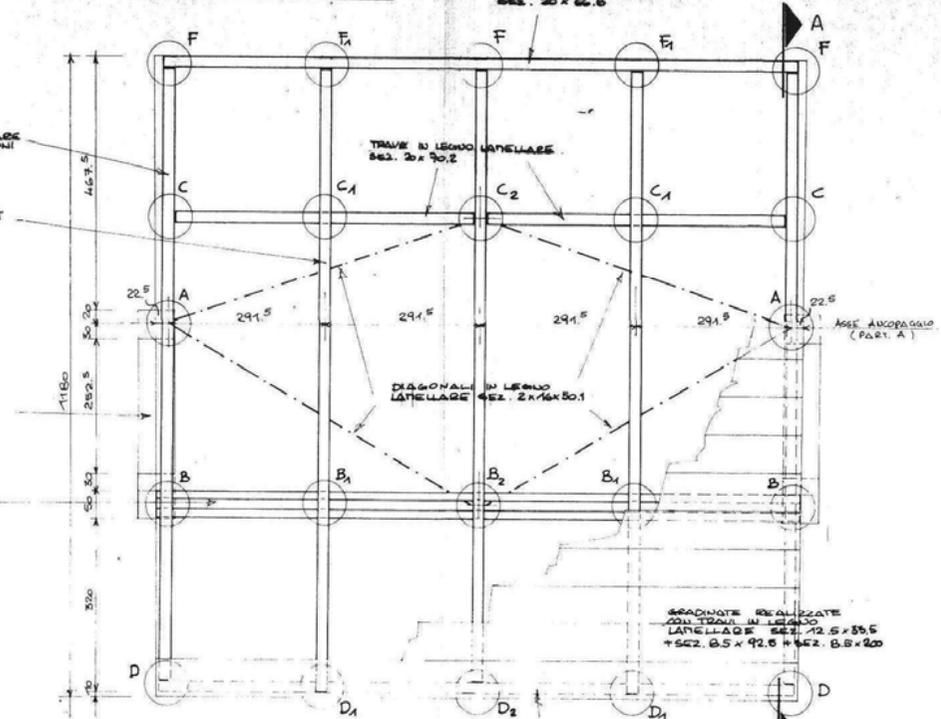


TRAVE IN LEGNO LAMELLARE SEZ. 20 x 100,3 + GRADONI

TRAVE IN LEGNO LAMELLARE SEZ. 25 x 50,1 + GRADONI

PIASTRO IN C.C.

ARCHITRAVE PRINCIPALE IN LEGNO LAMELLARE SEZ. 2 x 14,5 x 20,8 + CALESTRELLI SEZ. 20 x 19,6 + CALESTRELLI VERTICALI

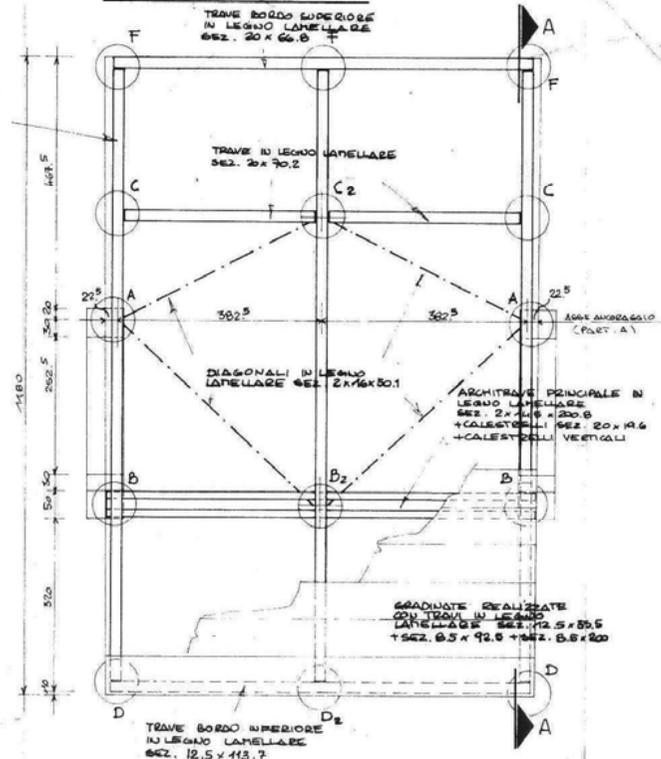


GRADINATE REALIZZATE CON TRAVI IN LEGNO LAMELLARE SEZ. 12,5 x 55,5 + SEZ. 8,5 x 92,8 + SEZ. 8,5 x 200

SETTORE TIPO A PIANTA 1:50

TRAVE BORDO SUPERIORE IN LEGNO LAMELLARE SEZ. 20 x 66,8

TRAVE IN LEGNO LAMELLARE SEZ. 20 x 100,3 + GRADONI



TRAVE IN LEGNO LAMELLARE SEZ. 20 x 100,3 + GRADONI

ARCHITRAVE PRINCIPALE IN LEGNO LAMELLARE SEZ. 2 x 14,5 x 20,8 + CALESTRELLI SEZ. 20 x 19,6 + CALESTRELLI VERTICALI

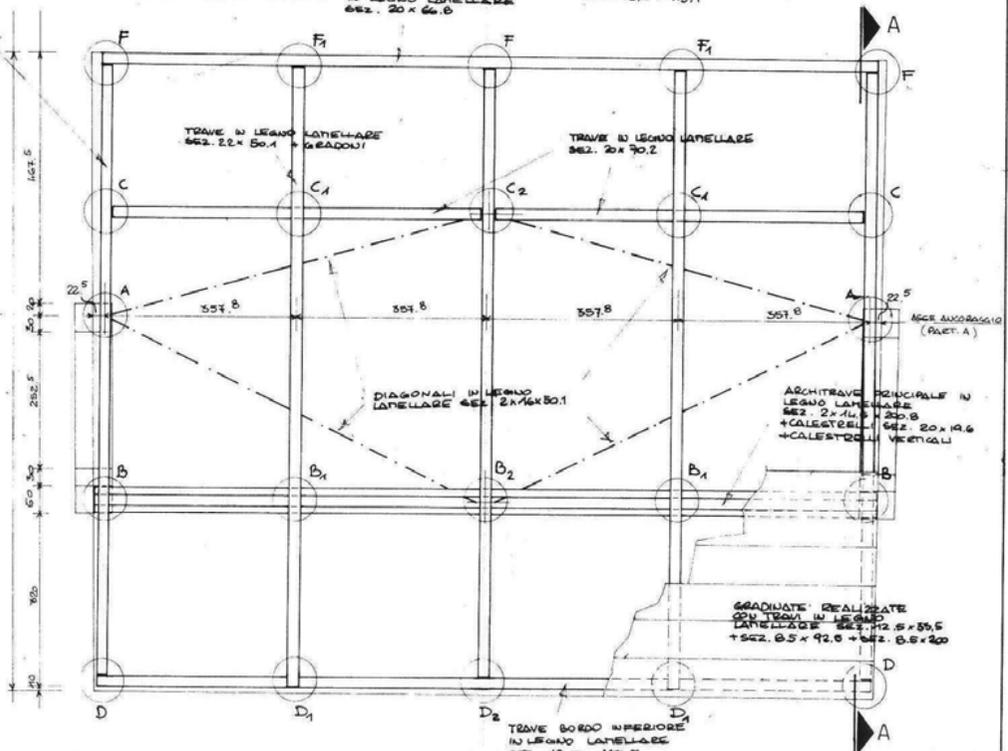
GRADINATE REALIZZATE CON TRAVI IN LEGNO LAMELLARE SEZ. 12,5 x 55,5 + SEZ. 8,5 x 92,8 + SEZ. 8,5 x 200

TRAVE BORDO INFERIORE IN LEGNO LAMELLARE SEZ. 12,5 x 413,7

SETTORE TIPO C PIANTA 1:50

TRAVE BORDO SUPERIORE IN LEGNO LAMELLARE SEZ. 20 x 66,8

TRAVE BORDO INFERIORE IN LEGNO LAMELLARE SEZ. 12,5 x 413,7



TRAVE IN LEGNO LAMELLARE SEZ. 22 x 50,1 + GRADONI

TRAVE IN LEGNO LAMELLARE SEZ. 20 x 70,2

ARCHITRAVE PRINCIPALE IN LEGNO LAMELLARE SEZ. 2 x 14,5 x 20,8 + CALESTRELLI SEZ. 20 x 19,6 + CALESTRELLI VERTICALI

GRADINATE REALIZZATE CON TRAVI IN LEGNO LAMELLARE SEZ. 12,5 x 55,5 + SEZ. 8,5 x 92,8 + SEZ. 8,5 x 200

TRAVE BORDO INFERIORE IN LEGNO LAMELLARE SEZ. 12,5 x 413,7

IMMOBILE: STADIO OLIMPICO		
SPECIFICA: TRIBUNA TEVERE PIANTE SETTORI		
TAVOLA N. C. ST. 301	DATA: Novembre 2004 SCALA: 1:50 PROGETTO: Ing. Lucio Sconetti	

PARTICOLARE B<sub>1</sub> SCALA 1:10

TRAVE IN LEGNO LAMELLARE  
SEZ. 22 x 50,1 + 4600/1

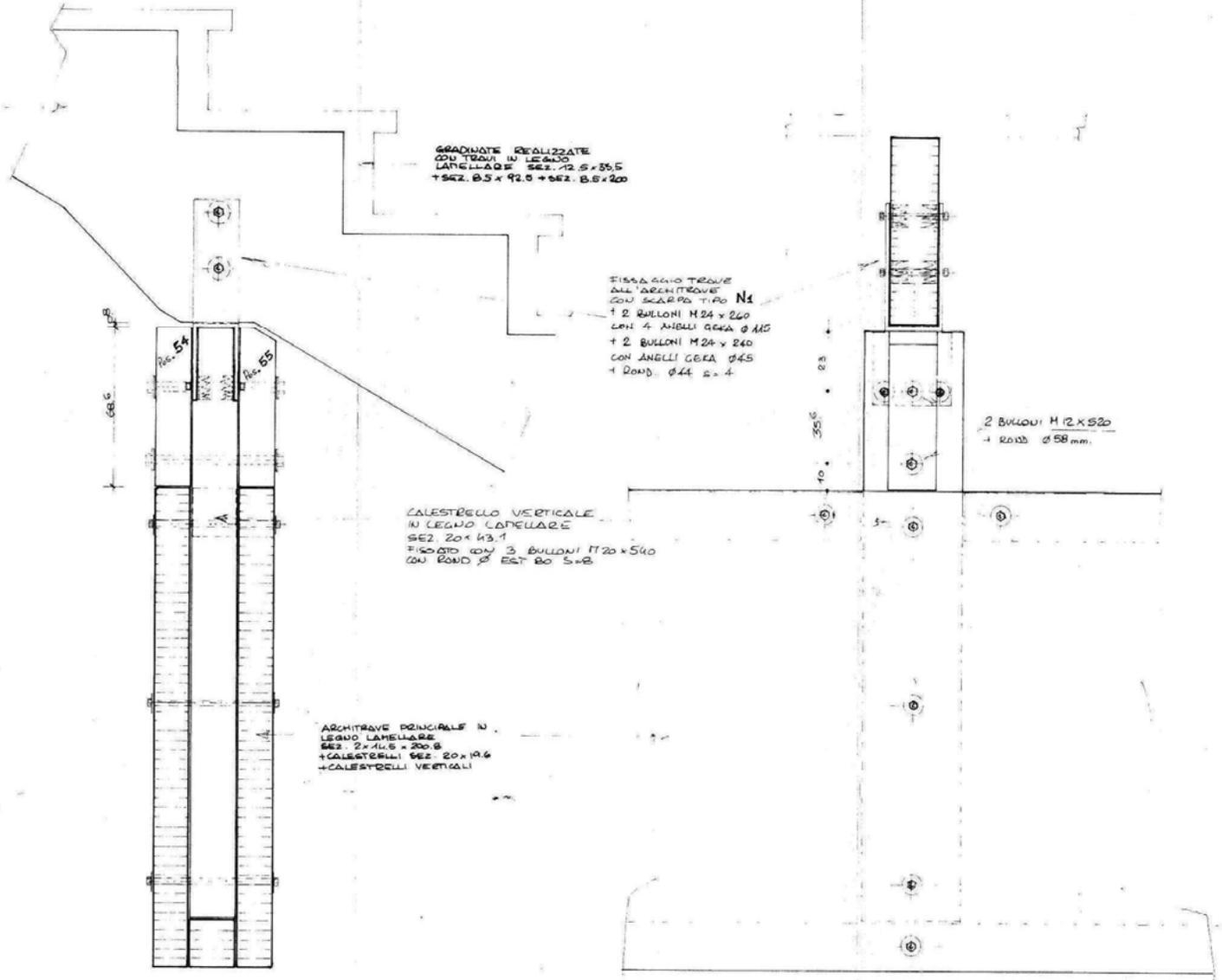
GRADINATE REALIZZATE  
CON TRAVI IN LEGNO  
LAMELLARE SEZ. 12,5 x 35,5  
+ SEZ. Ø 5 x 92,5 + SEZ. 8,5 x 200

SISSA OGNO TRAVE  
ALL'ARCHITRAVE  
CON SCARPO TIPO N<sub>1</sub>  
+ 2 BULLONI M24 x 240  
CON 4 ANELLI GERA Ø 415  
+ 2 BULLONI M24 x 240  
CON ANELLI GERA Ø 45  
+ RONDI Ø 44 R = 4

CALESTRELLI VERTICALI  
IN LEGNO LAMELLARE  
SEZ. 20 x 43,1  
FISSATI CON 3 BULLONI M20 x 540  
CON RONDI Ø EST 80 S = 8

ARCHITRAVE PRINCIPALE IN  
LEGNO LAMELLARE  
SEZ. 2 x 41,6 x 200,8  
+ CALESTRELLI SEZ. 20 x 19,6  
+ CALESTRELLI VERTICALI

2 BULLONI M12 x 520  
+ RONDI Ø 58 mm



IMMOBILE:  
STADIO OLIMPICO

SPECIFICA:  
TRIBUNA TEVERE - M. MARIO  
PARTICOLARE B<sub>1</sub>

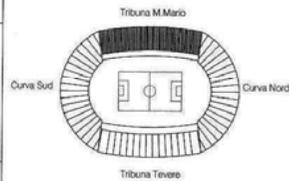


TAVOLA N.  
C. ST.  
505

DATA:  
Novembre 2004  
SCALA:  
1:10  
PROGETTO:  
Ing. Lucio Scornetti



Coni Servizi

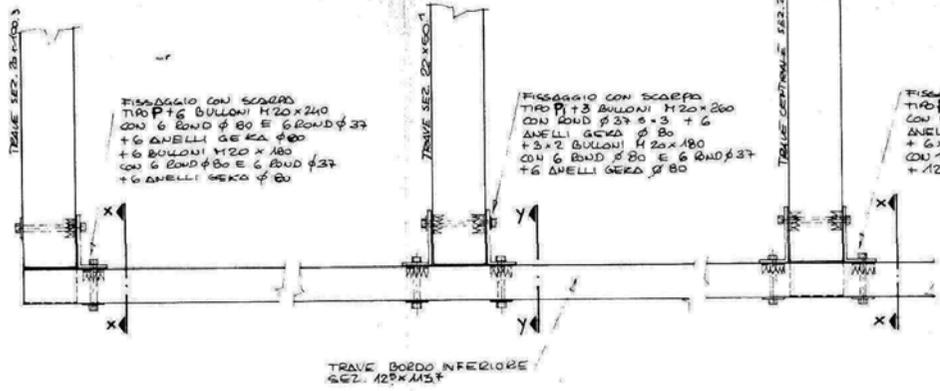
PARTICOLARE D

PARTICOLARE D<sub>1</sub>

PARTICOLARE D<sub>2</sub>

PART. D-D<sub>2</sub>  
SEZ. X-X

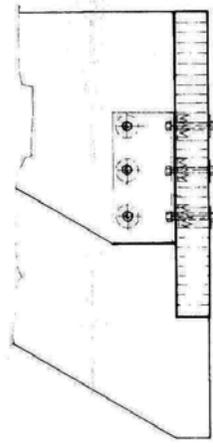
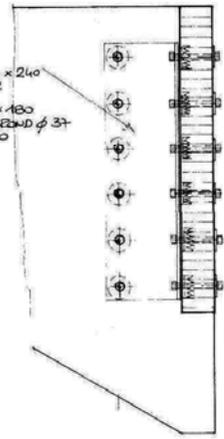
PART. D<sub>1</sub>  
SEZ. Y-Y



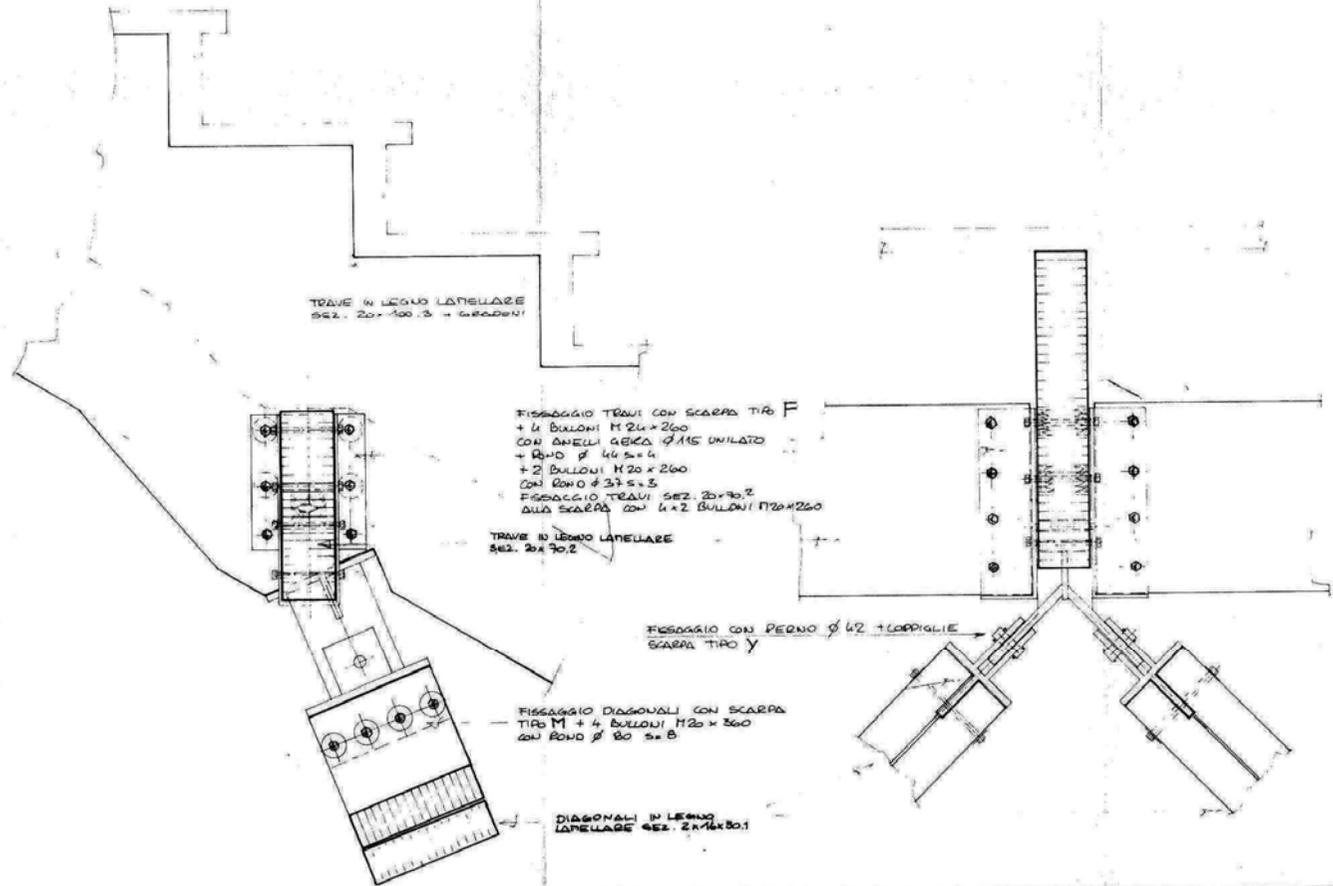
FISSAGGIO CON SCARPA  
TIRO P + 6 BULLONI M20x240  
CON 6 RONDI Ø 80 E 6 RONDI Ø 37  
+ 6 ANELLI GERA Ø 80  
+ 6 BULLONI M20x180  
CON 6 RONDI Ø 80 E 6 RONDI Ø 37  
+ 6 ANELLI GERA Ø 80

FISSAGGIO CON SCARPA  
TIRO P + 3 BULLONI M20x260  
CON RONDI Ø 37 s=3 + 6  
ANELLI GERA Ø 80  
+ 3x2 BULLONI 4 20x180  
CON 6 RONDI Ø 80 E 6 RONDI Ø 37  
+ 6 ANELLI GERA Ø 80

FISSAGGIO CON SCARPA  
TIRO P + 6 BULLONI M 20 x 240  
CON RONDI Ø 37 s=3 + 12  
ANELLI GERA Ø 80  
+ 6x2 BULLONI M 20x180  
CON 12 RONDI Ø 80 E 12 RONDI Ø 37  
+ 12 ANELLI GERA Ø 80



PARTICOLARE C<sub>2</sub> SCALA 1:10



FISSAGGIO TRAVI CON SCARPA TIRO F  
+ 4 BULLONI M24x260  
CON ANELLI GERA Ø 115 UNILATO  
+ RONDI Ø 44 s=4  
+ 2 BULLONI M20x260  
CON RONDI Ø 37 s=3  
FISSAGGIO TRAVI SEZ. 20x70,2  
ALLA SCARPA CON 4x2 BULLONI M20x260

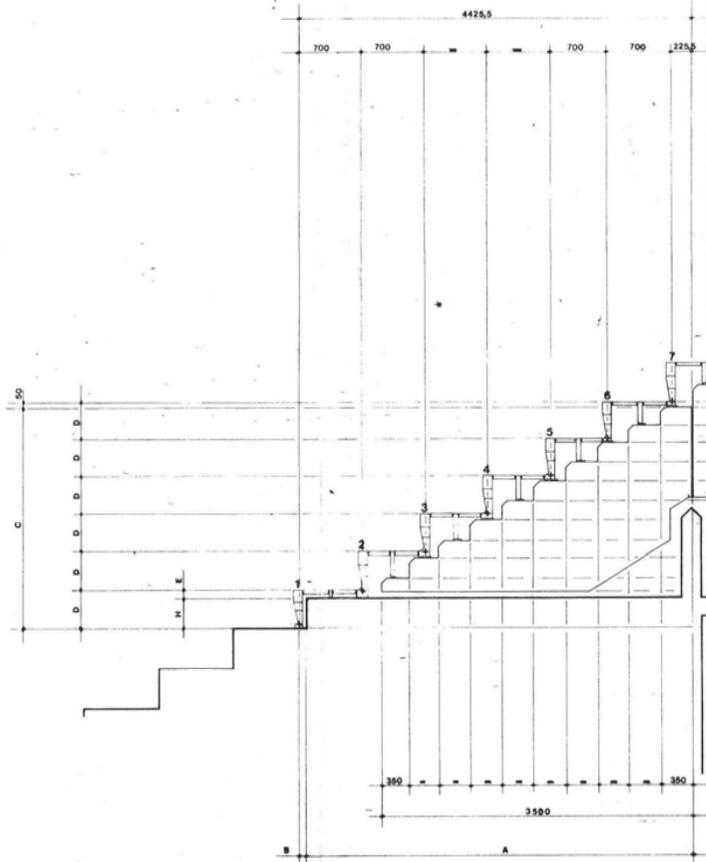
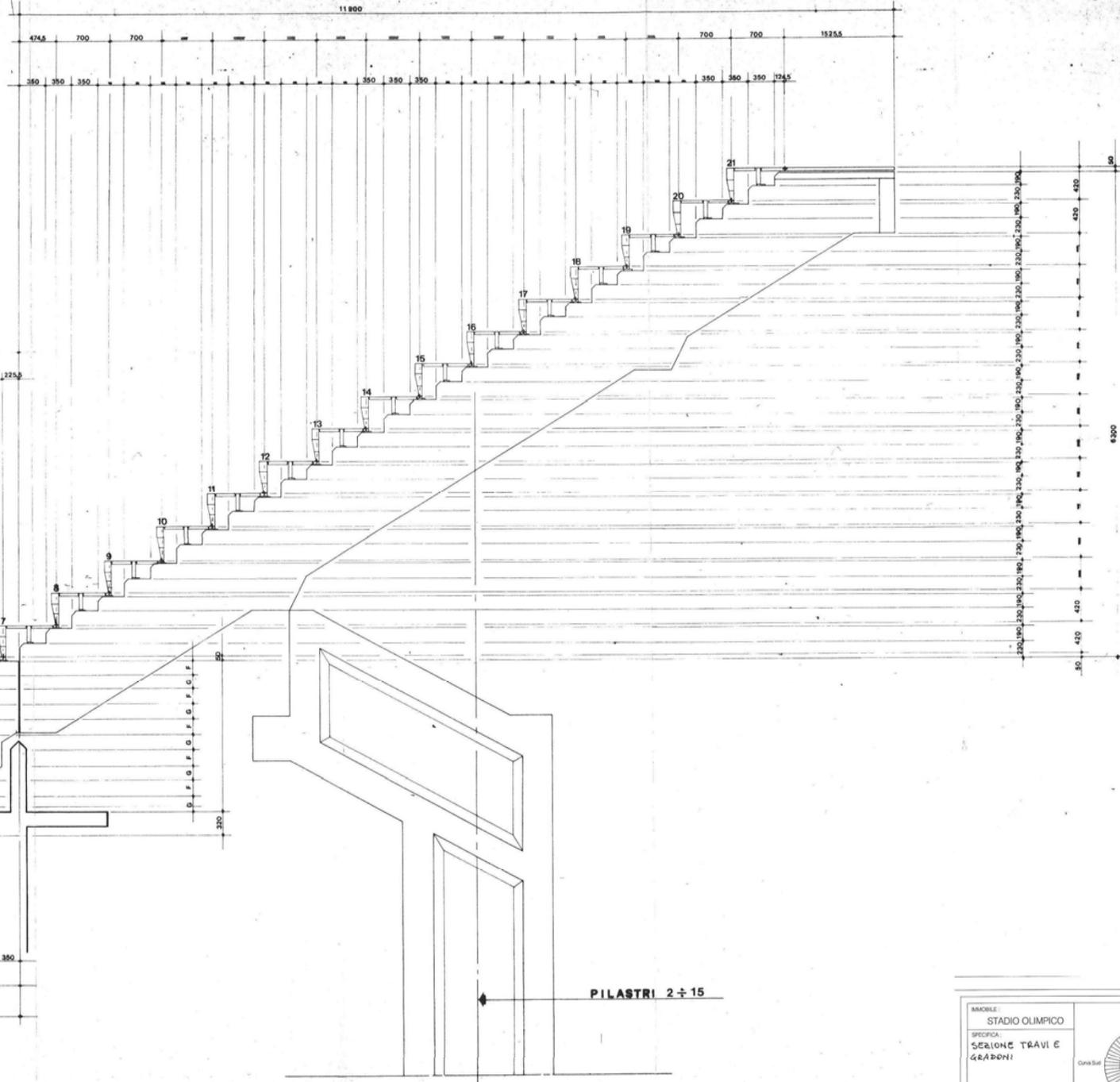
FISSAGGIO CON PEDNO Ø 42 + COPPIE  
SCARPA TIRO Y

FISSAGGIO DIAGONALI CON SCARPA  
TIRO M + 4 BULLONI M20x360  
CON RONDI Ø 80 s=8

DIAGONALI IN LEGNO  
LAMELLARE sez. 2x16x80,1

IMMOBILE: <b>STADIO OLIMPICO</b>		<p>Tribuna M Mario</p> <p>Curva Sud</p> <p>Curva Nord</p> <p>Tribuna Tevere</p>	
SPECIFICA: <b>TRIBUNA TEVERE - IL MARIO</b> <b>PARTICOLARE C<sub>2</sub></b> <b>PARTICOLARI D<sub>1</sub> D<sub>2</sub></b>			
TAVOLA: <b>C. ST.</b> <b>508</b>	DATA: Novembre 2004 SCALA: <b>1:10</b>	<p><b>Coni Servizi</b></p>	
PROGETTO: Ing. Lucio Scornelli			

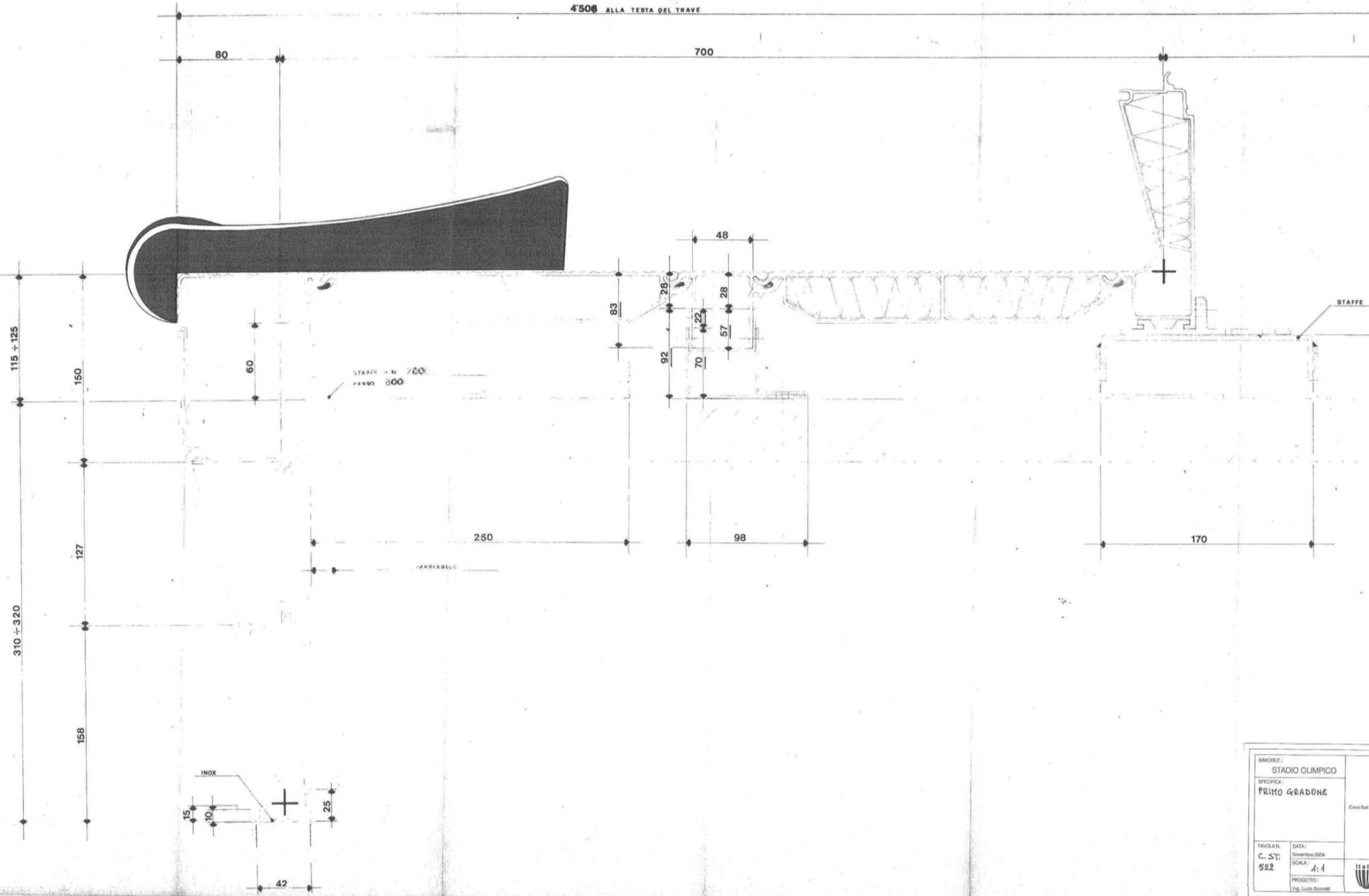
POSIZIONE PILASTRO	A	B	C	D	E	F	G	H
2								
3								
4								
5								
6								
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8								
9								
10								
11								
12								
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14								
15								



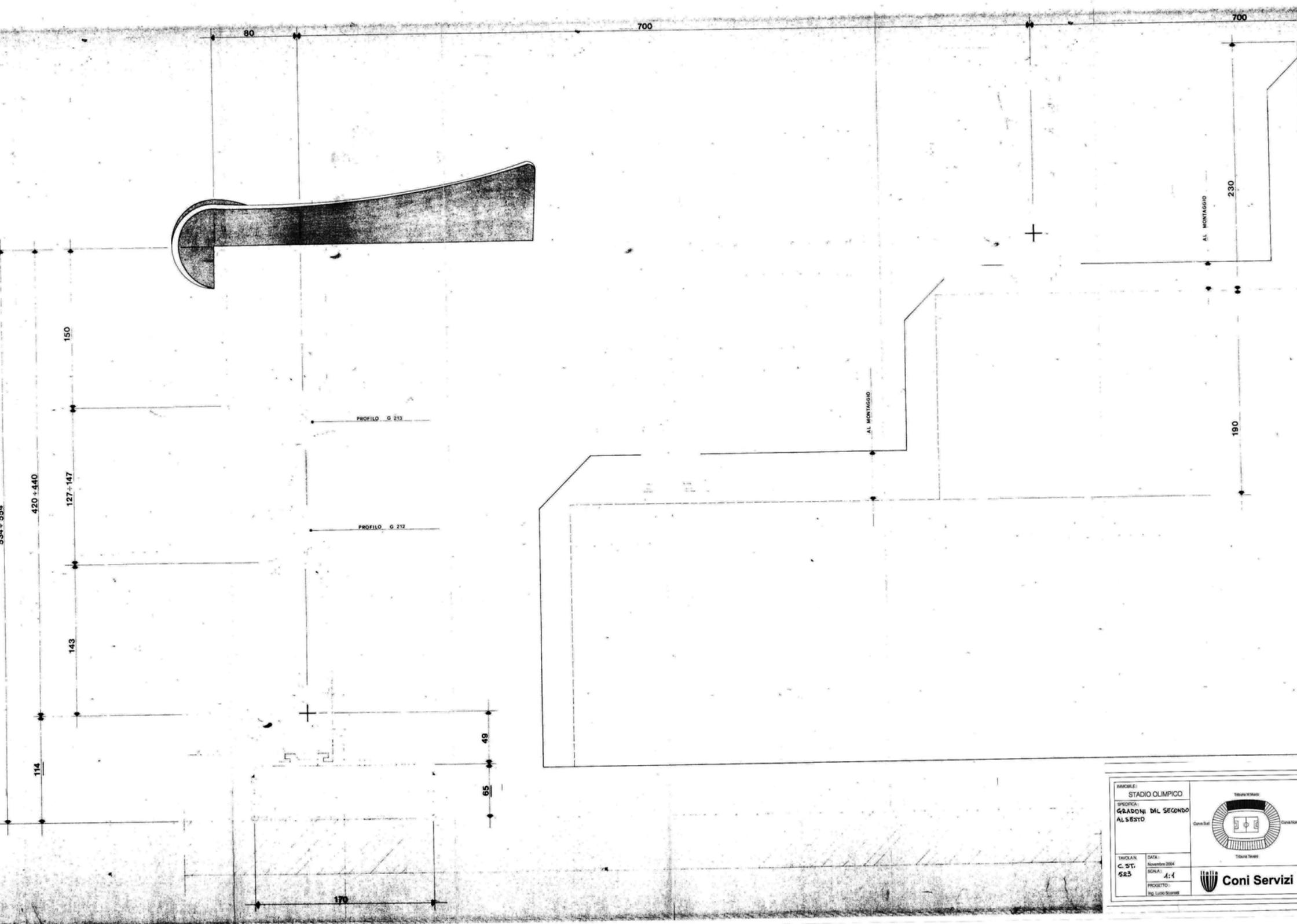
PILASTRI 2 ÷ 15

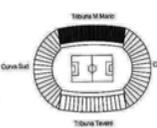
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>SEZIONE TRAVE E GRADINI</b>		
TAVOLA: <b>C. ST.</b> <b>549</b>	DATA: Novembre 2004	
PROGETTO: Ing. Lello Scornelli		

4506 ALLA TESTA DEL TRAVE

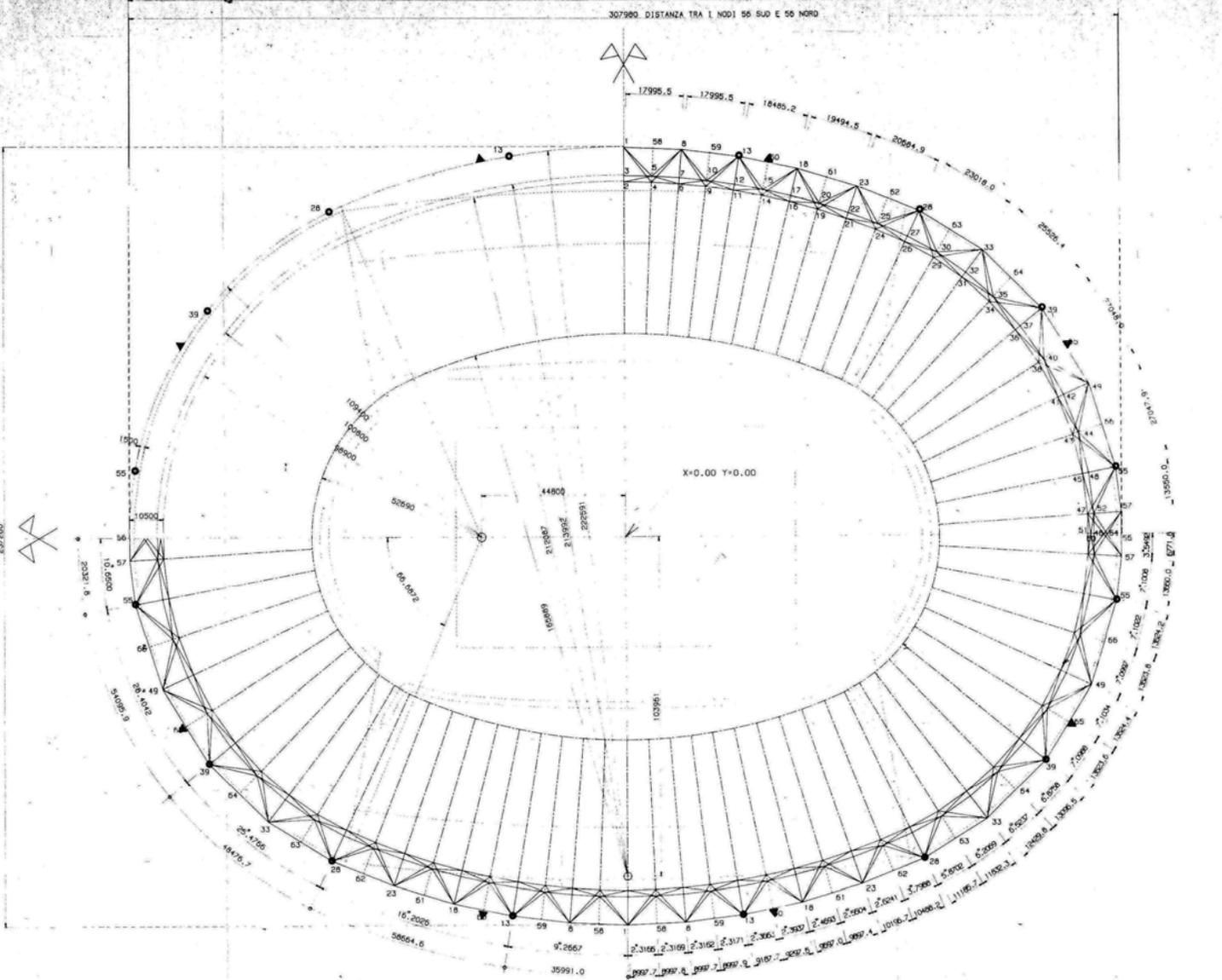


IMMOBILE: STADIO OLIMPICO		Cine Dal
SPECIFICA: PRIMO GRADONE		
TAVOLA: C. ST. 522	DATA: Novembre 2004	Italia
	SCALA: 1:1	
PROGETTO: Ing. Lucio Bonelli		

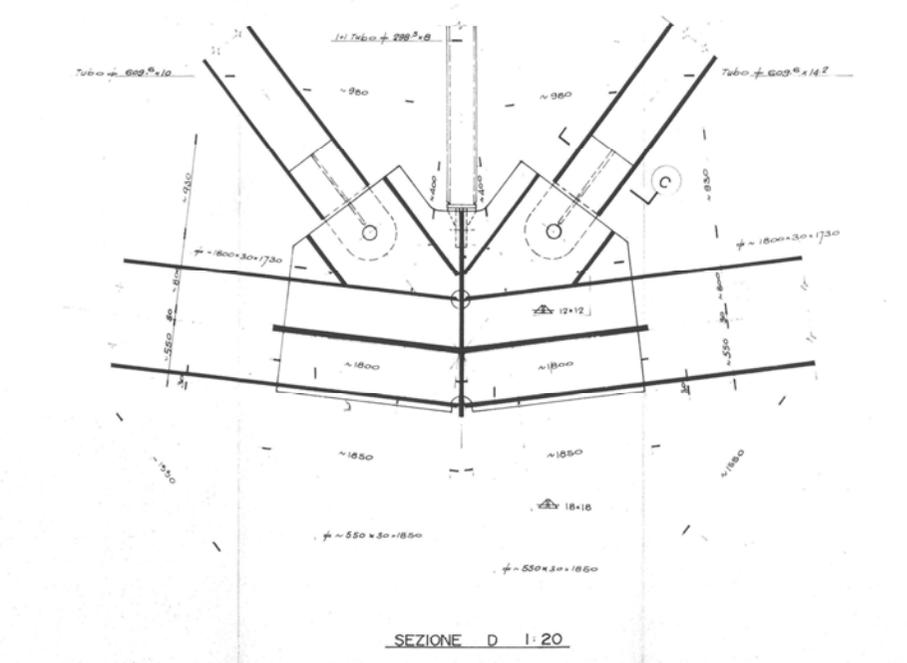
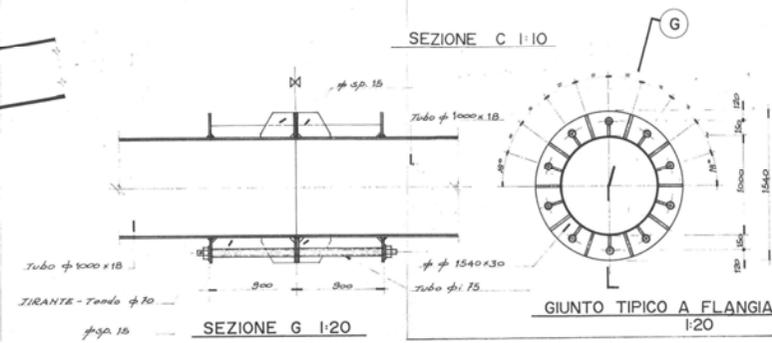
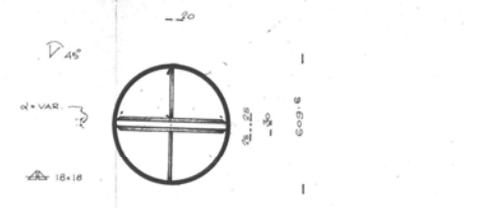
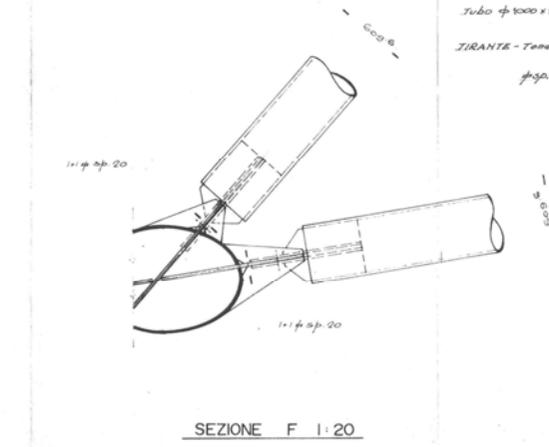
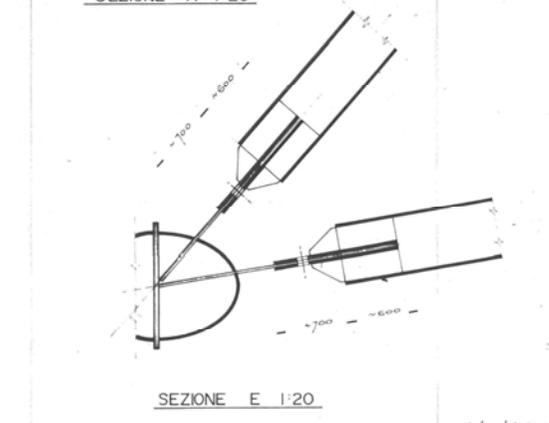
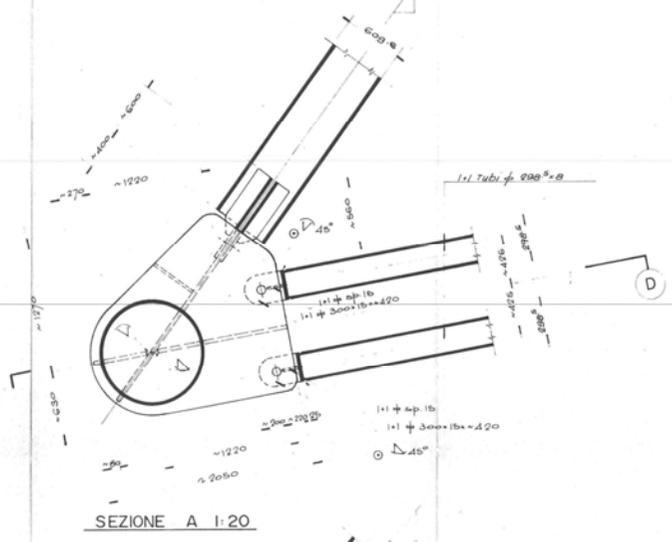
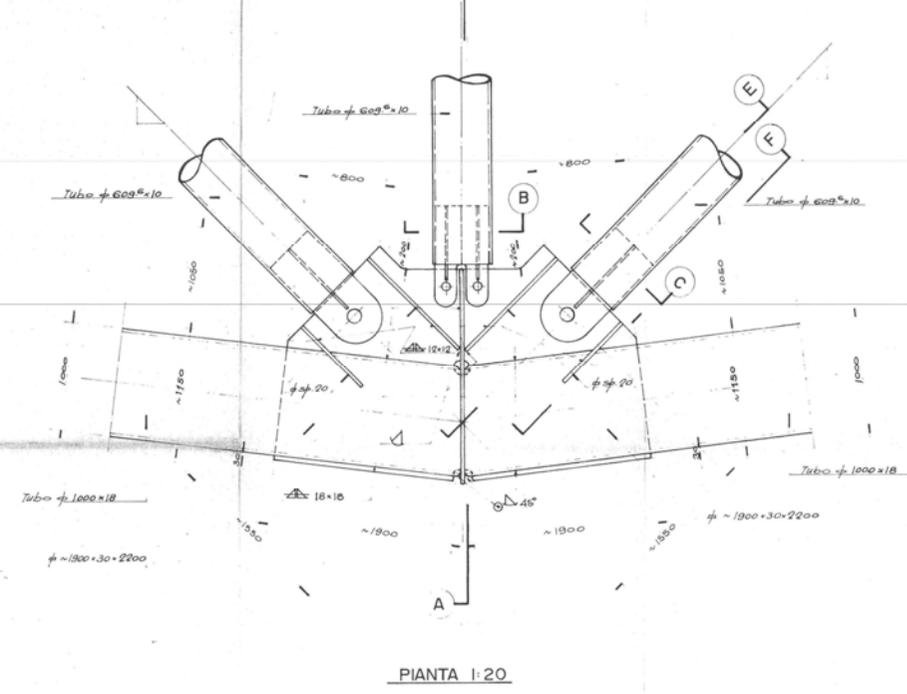


IMMOBILE: <b>STADIO OLIMPICO</b>		
SPERFONIA: <b>GRADONI DAL SECONDO AL SESTO</b>		
TRACKAN: <b>C. ST.          623</b>	DATA: Novembre 2004 SCALA: <b>1:1</b>	TAVOLA: <b>623</b>
PROGETTO: Ing. Luigi Bonanni		 <b>Coni Servizi</b>

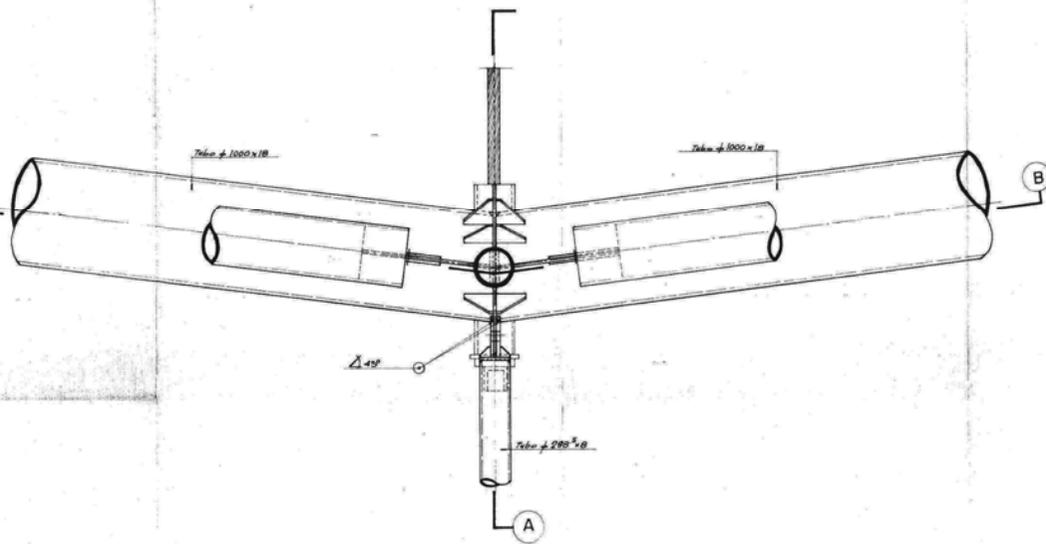
308400 DISTANZA TRA I NODI 55 SUD E 56 NORD



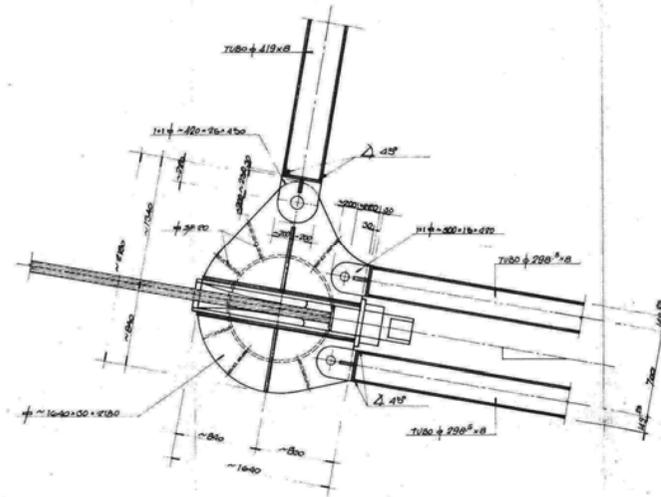




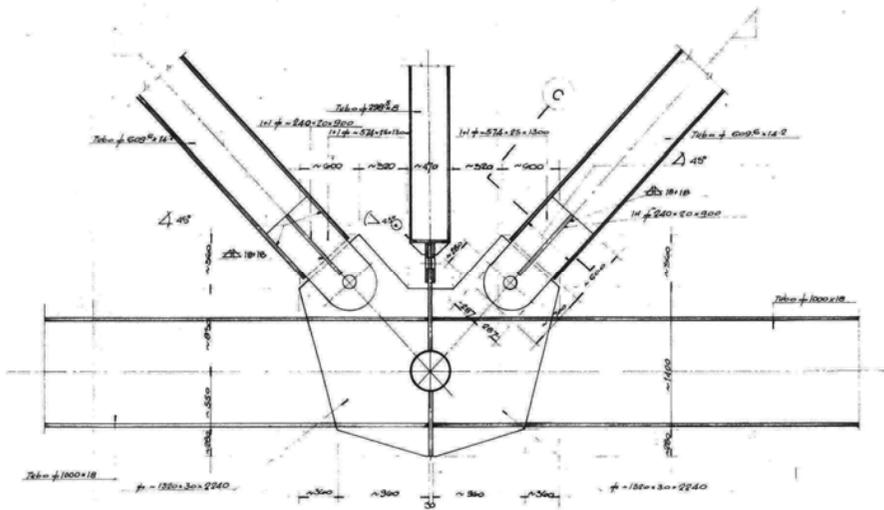
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA          NOBBI TIPO "B"</b>		
TAVOLAN: <b>C. ST.          805</b>	DATA: Novembre 2004 SCALA: <b>1:80 / 1:10</b> PROGETTO: Ing. Lino Scornati	Tibuna M.Mario Tibuna Tevere <b>Coni Servizi</b>



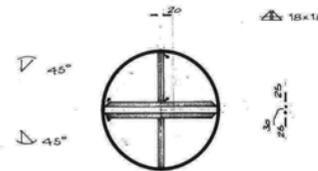
PIANTA NODO 1:20



SEZIONE A 1:20



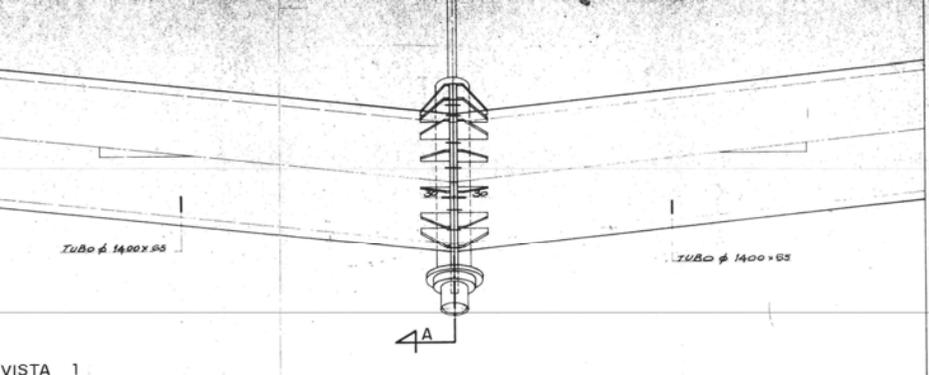
SEZIONE B 1:20



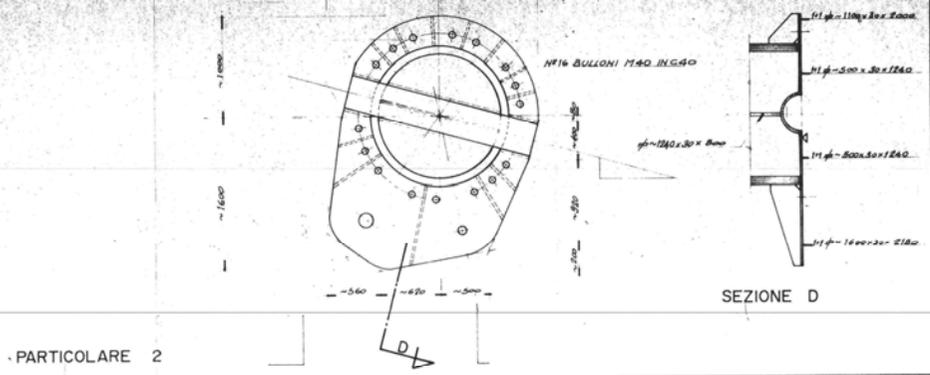
SEZIONE C 1:20

IMMOBILE: <b>STADIO OLIMPICO</b>		Tribuna M. Moro	
SPECIFICA: <b>COBERTURA</b>			
NODO TIPO C <sub>1</sub>		Tribuna Tevere	
TAVOLA: <b>C. ST.</b> <b>806</b>	DATA: Novembre 2004	SCALA: <b>1:20</b>	
PROGETTO: Ing. Lucio Stortelli		<b>Coni Servizi</b>	

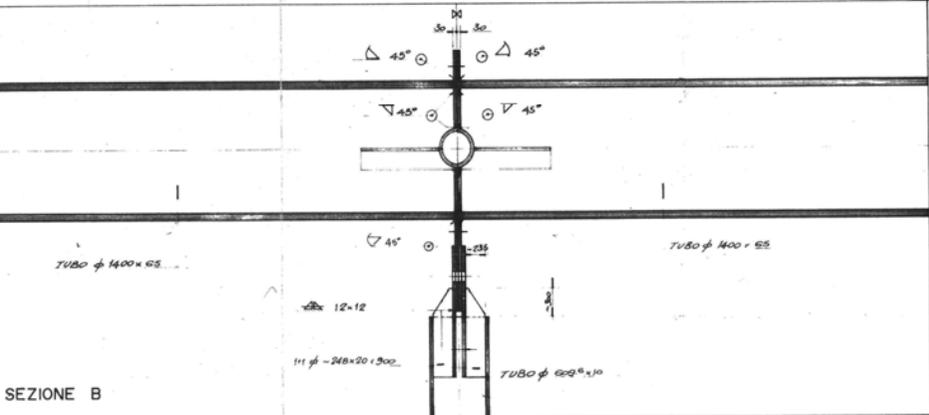




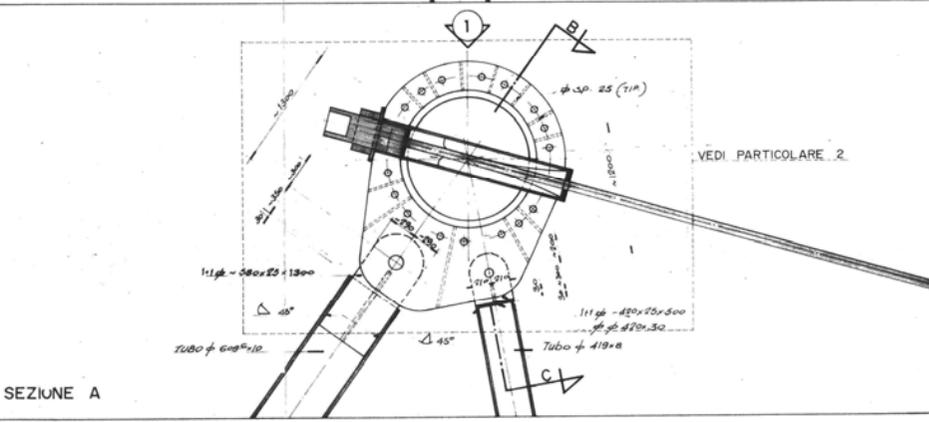
VISTA 1



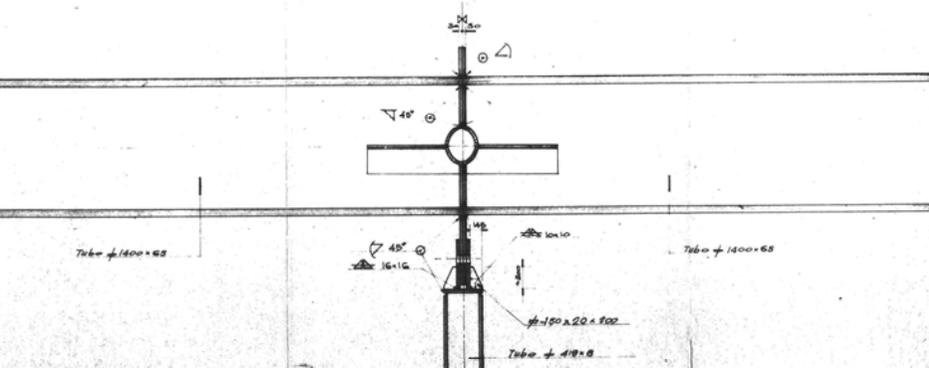
PARTICOLARE 2



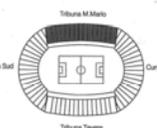
SEZIONE B

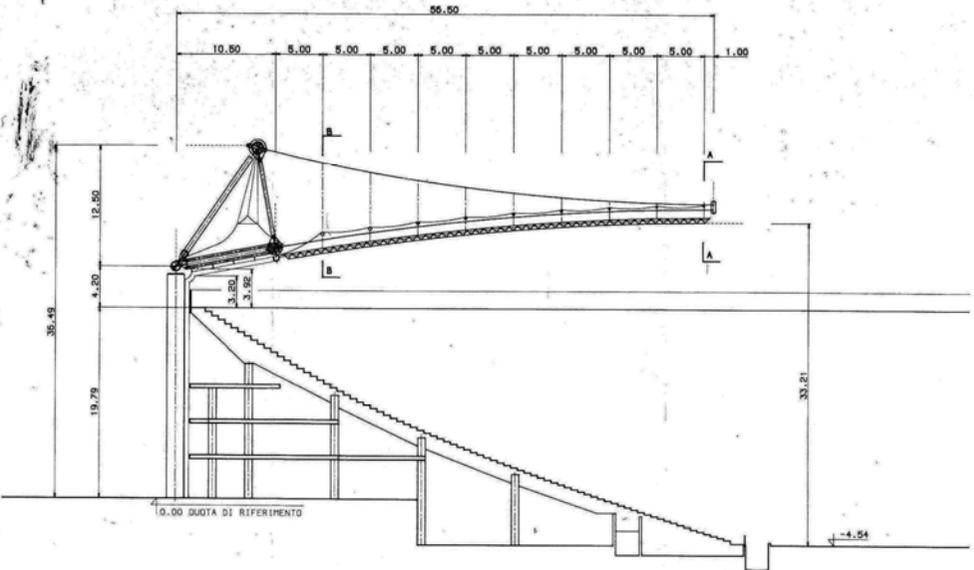


SEZIONE A

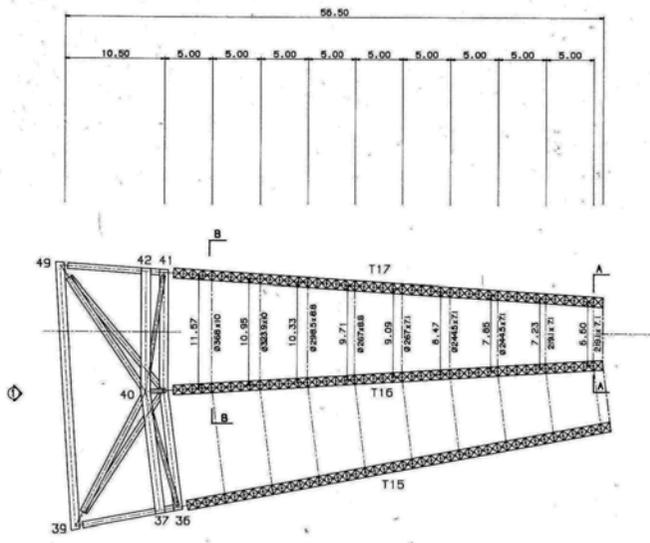


SEZIONE C

IMMAGINE: STADIO OLIMPICO		 Tribuna M Medio Tribuna Nord Tribuna Tevere
SPECIFICA: COPERTURA NODO TIPO "E"		
TAVOLAN: C. ST. 808	DATA: Novembre 2004 SCALA: 1:20	 Coni Servizi
PROGETTO: Ing. Lucio Scornati		



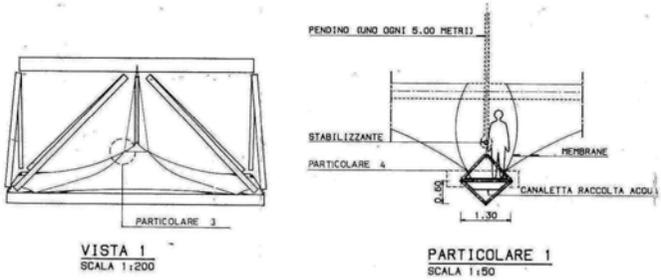
SEZIONE TIPICA ZONA CURVE  
SCALA 1:200



STRALCIO DI PIANTA INDICATIVO  
SCALA 1:200

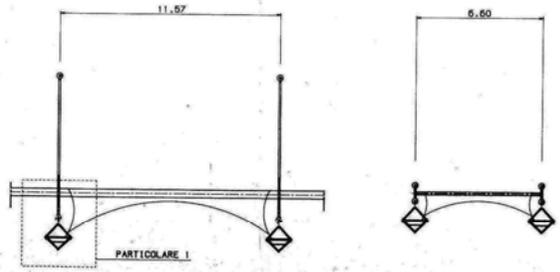
**MATERIALI IMPIEGATI**  
*(Struttura Secondaria)*

- Profili tubolari a doppio T
  - ad U
  - Lamiera
  - Bulloni
- Pe 430 B (UNI 7070 - 82)
  - Pe 430 M (UNI 7070 - 82)
  - Vite 4.6 - Dado 5.8 (UNI 3748)



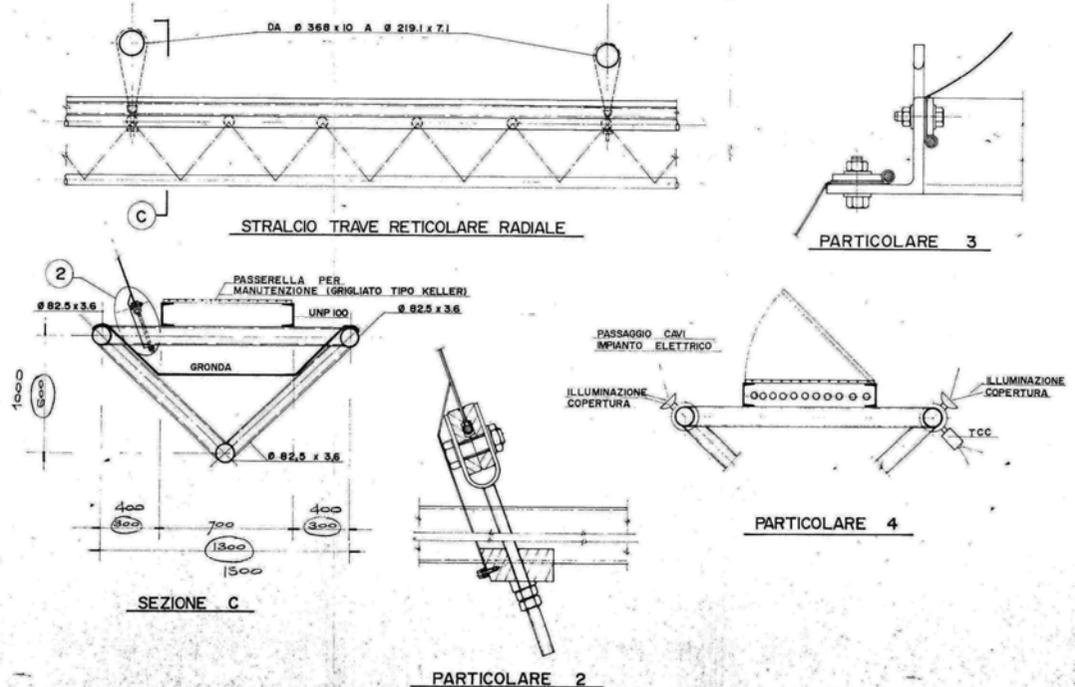
VISTA 1  
SCALA 1:200

PARTICOLARE 1  
SCALA 1:50



SEZIONE B  
SCALA 1:100

PARTICOLARE 1  
SCALA 1:100



STRALCIO TRAVE RETICOLARE RADIALE

SEZIONE C

PARTICOLARE 2

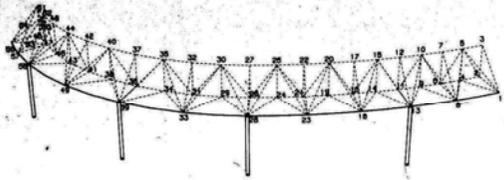
PARTICOLARE 3

PARTICOLARE 4

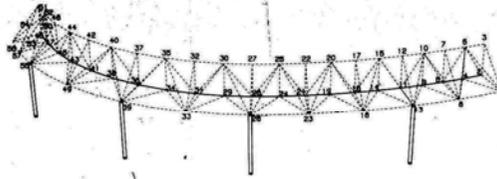
MODELLO: <b>STADIO OLIMPICO</b>		
SPESORIAL: <b>COBERTIVA</b> SEZIONE TIPO E DETTAGLI		
TAVOLA: <b>C. ST.</b> <b>809</b>	DATA: Novembre 2004	Tiburina Milano Tiburina Team
SCALA: <b>VARIE</b>	PROGETTO: Ing. Lucio Scornati	<b>Coni Servizi</b>



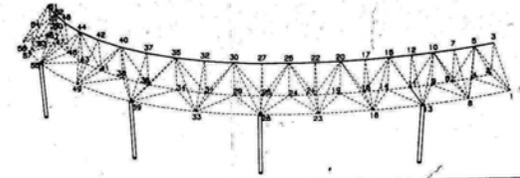




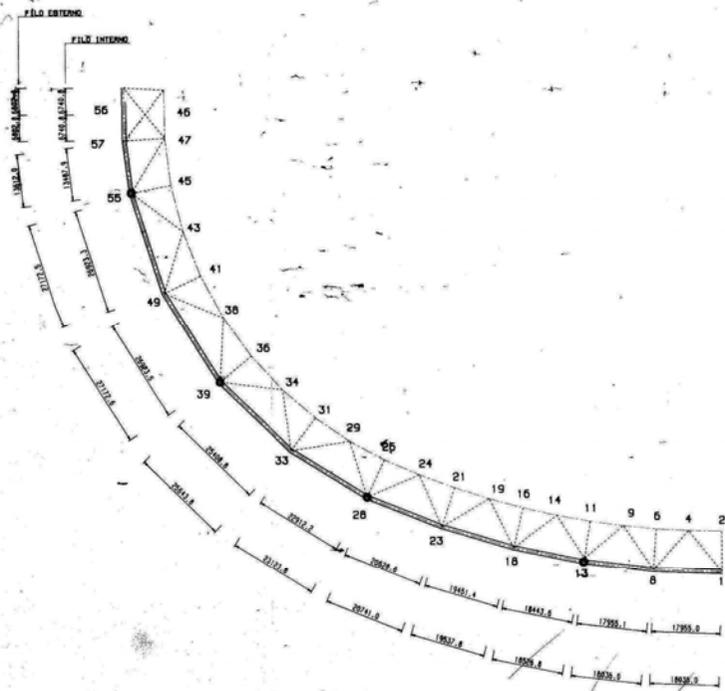
SCHEMA CHIAVE



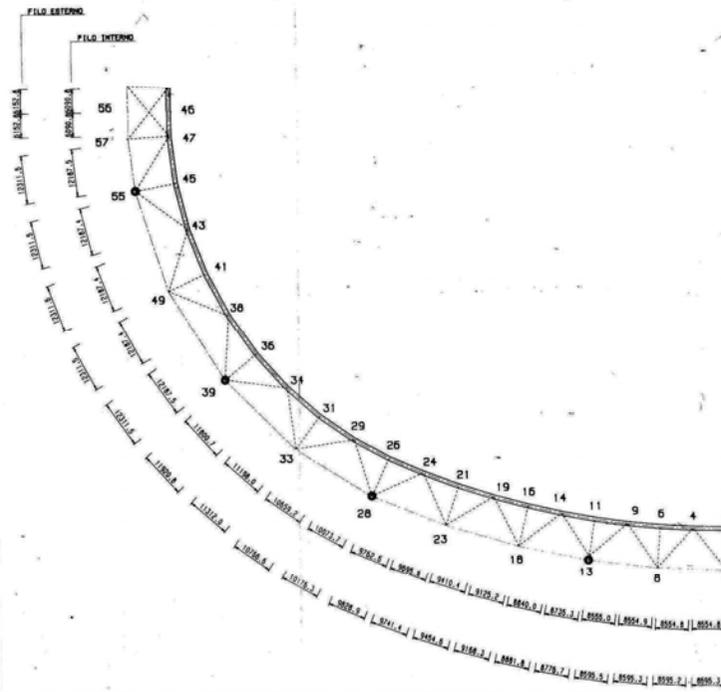
SCHEMA CHIAVE



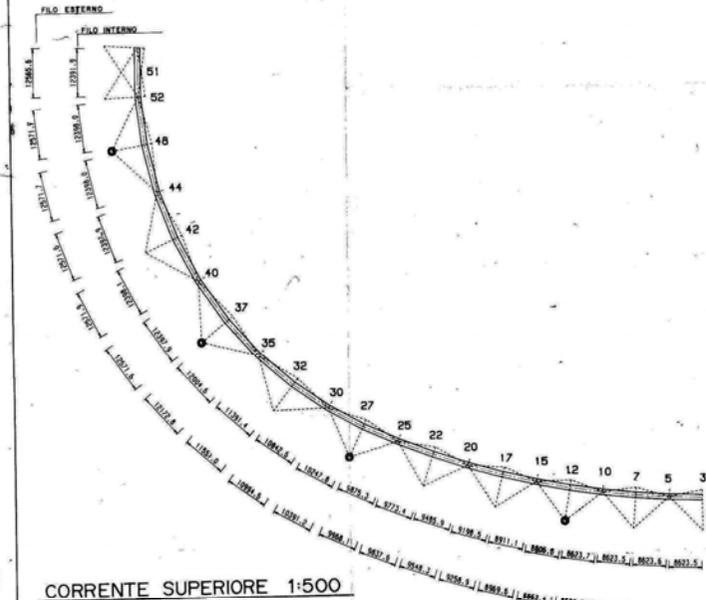
SCHEMA CHIAVE



CORRENTE INFERIORE ESTERNO 1:500

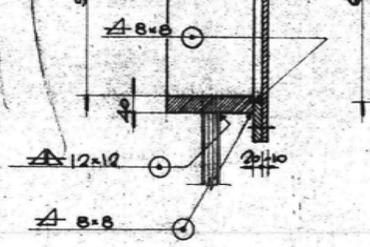


CORRENTE INFERIORE INTERNO 1:500

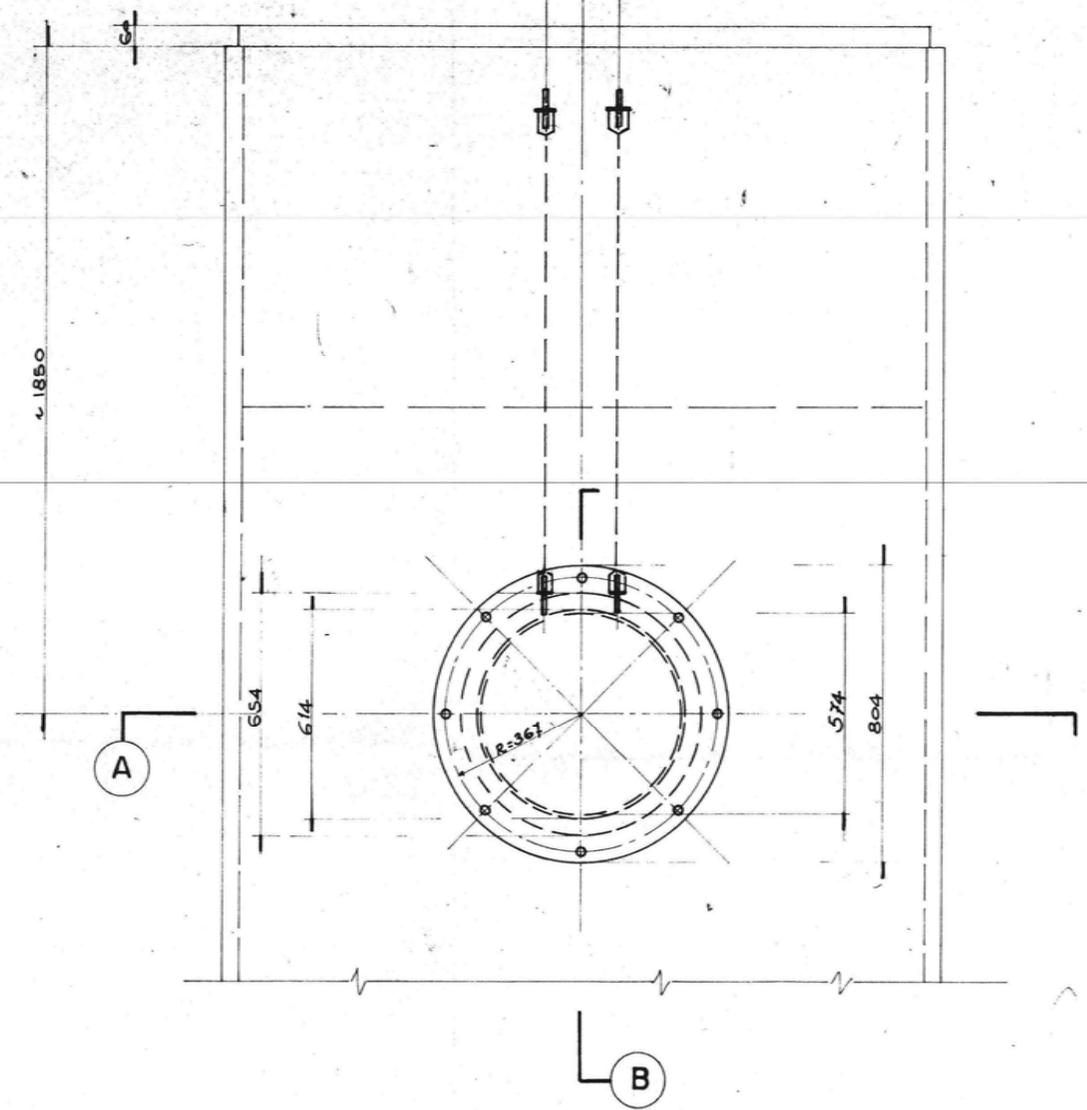
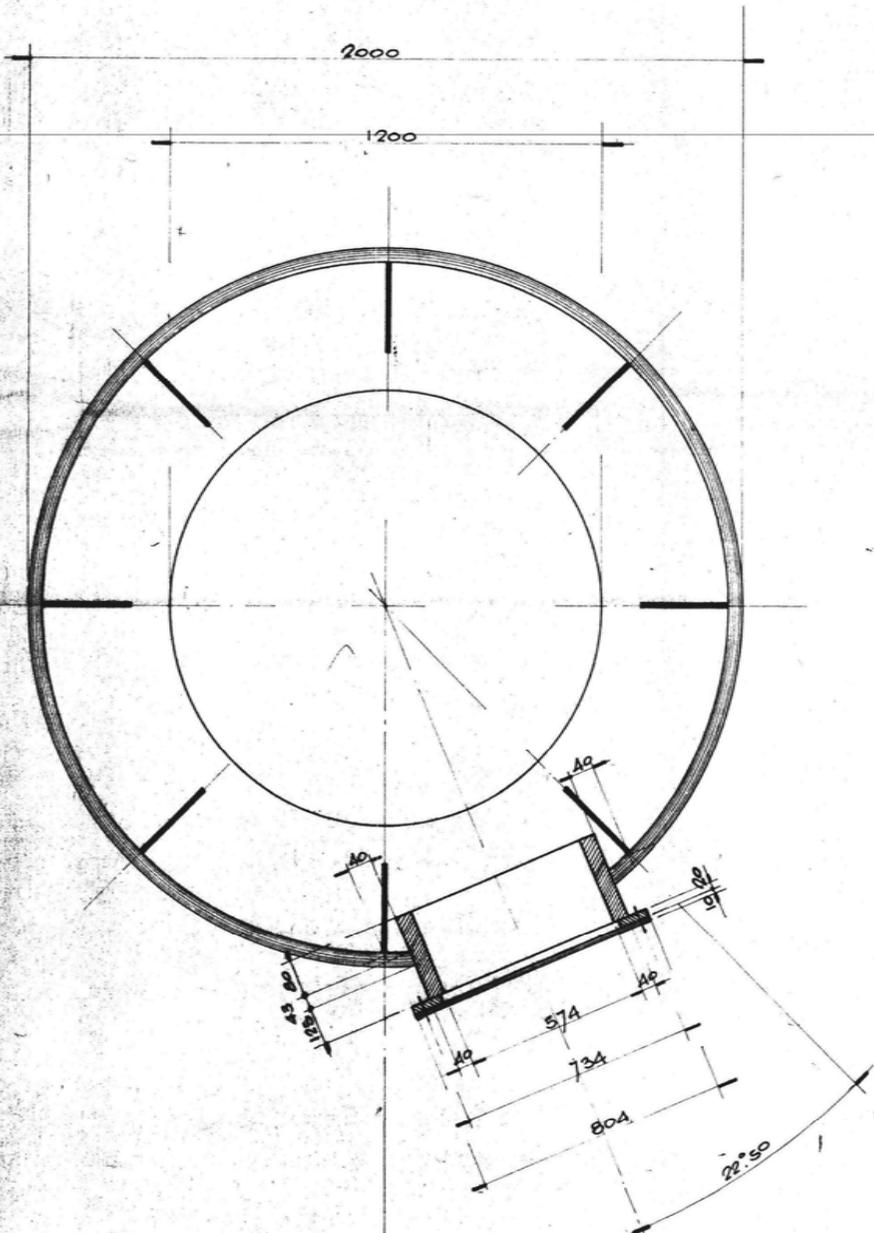


CORRENTE SUPERIORE 1:500

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>TRAVE DI BORDO          LUNGHEZZE TUBOLARI          CORRENTI</b>		
TAVOLANI: <b>C. ST.          843</b>	DATA: Novembre 2004 SCALA: <b>VARIE</b>	
PROGETTO: Ing. Lucio Scornelli		



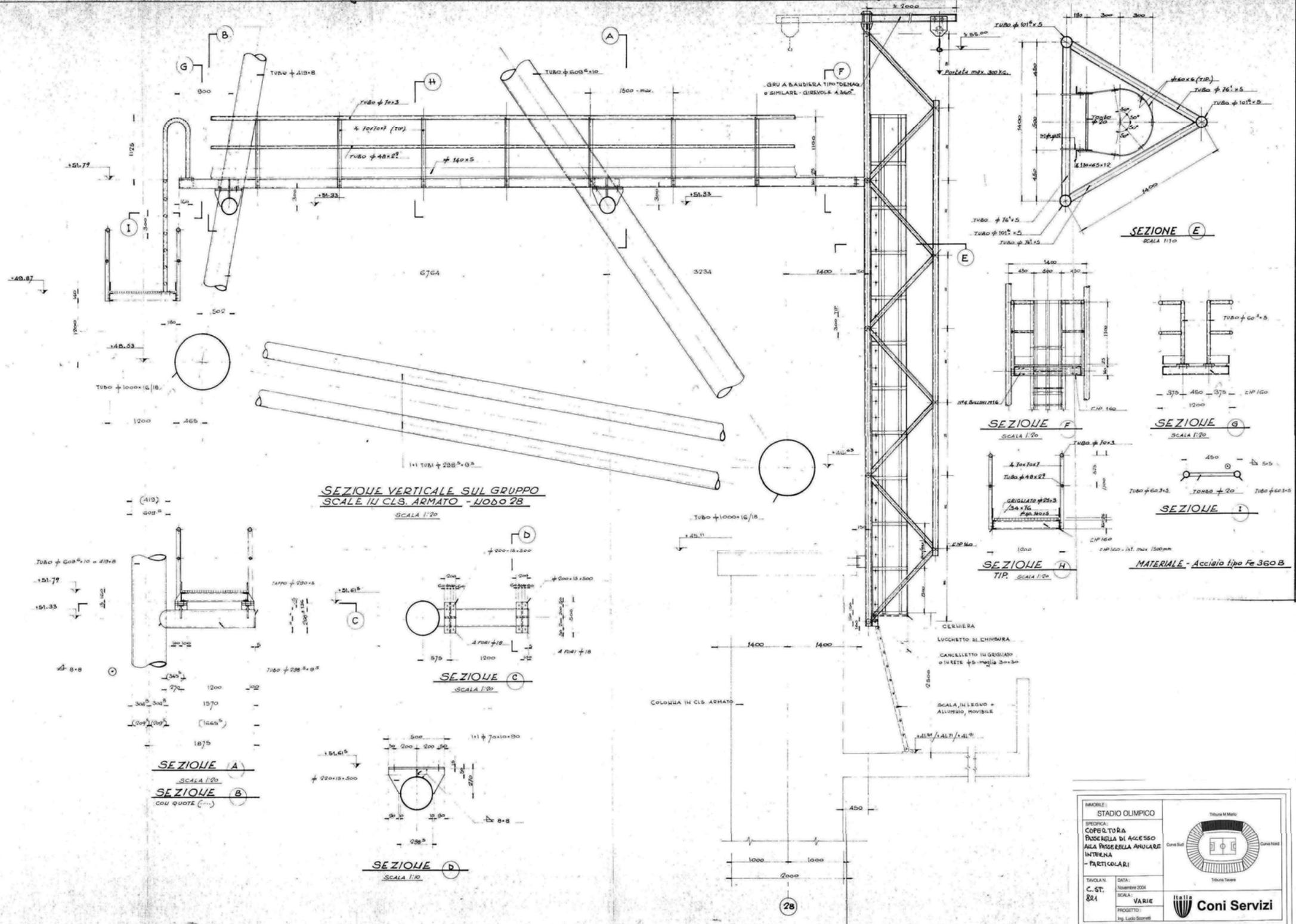
**SEZIONE B 1:10**



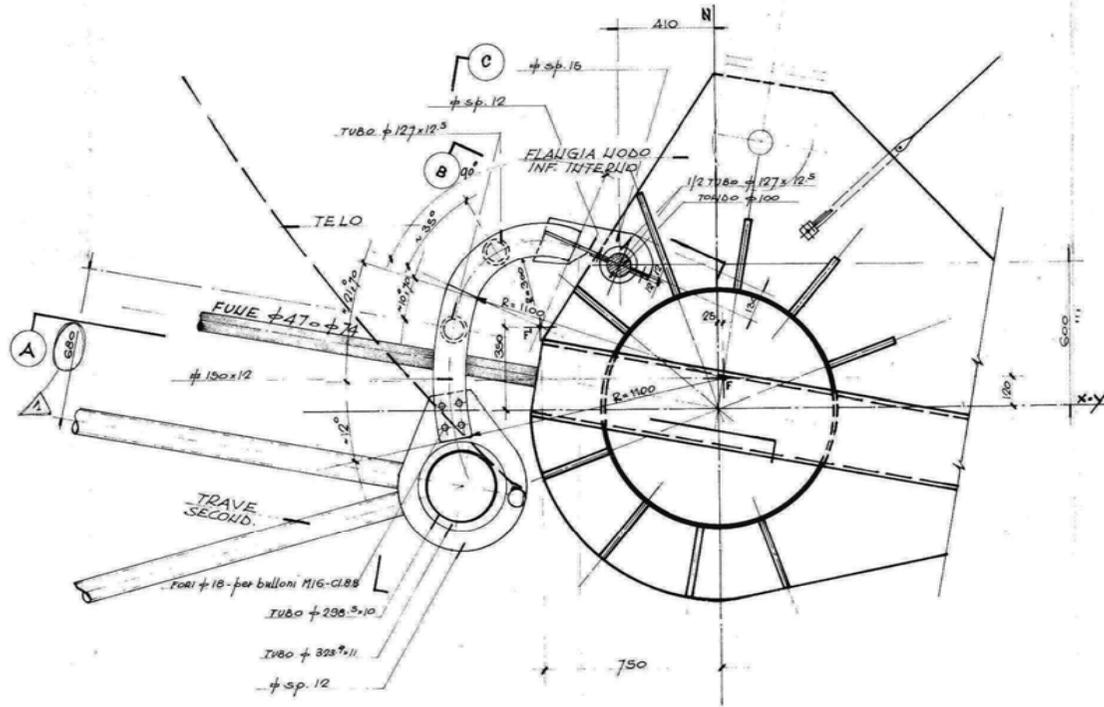
**PARTICOLARE PASSO D'UOMO**

IMMOBILE: <b>STADIO OLIMPICO</b>	Tribuna M. Mario
SPECIFICA: <b>COPERTURA PILASTRI IN ACCIAIO PARTICOLARE PASSO D'UOMO</b>	
	Curva Sud <span style="float: right;">Curva Nord</span>

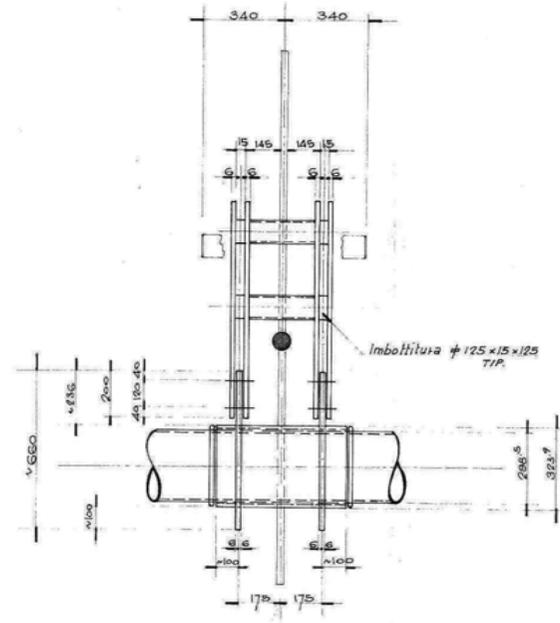




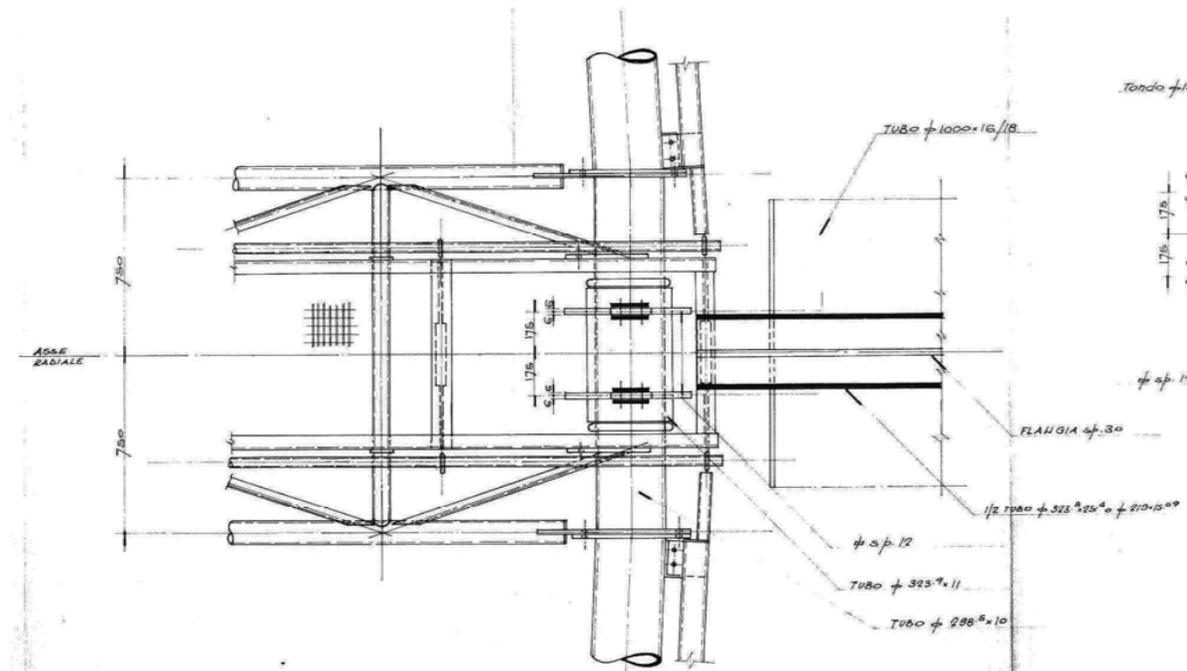
BRICOLE: <b>STADIO OLIMPICO</b>		
SPEDICA: <b>COBERTORA          PASSERELLA DI ACCESSO          ALLA PASSERELLA ANULARE          INTERNA          - PARTICOLARI</b>		
TAVOLAN: C. ST. 284	DATA: Novembre 2004 SCALA: VARIE PROGETTO: Ing. Lucio Scornelli	Tiburini M.M.M. Coni Sud  Tiburini Team 



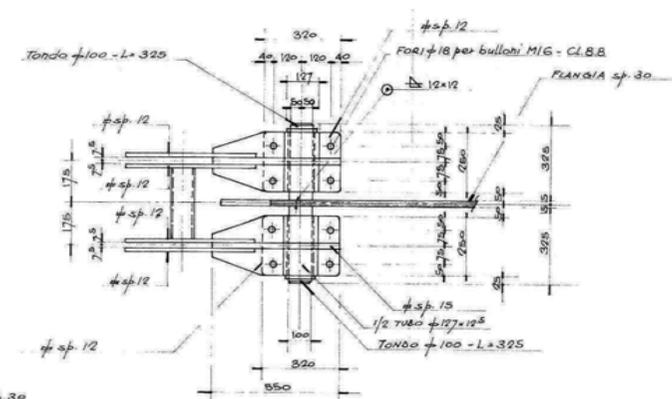
PART. TIPICO ATTACCO TRAVI SECONDARIE  
AI NODI DELL'ANELLO INF. INTERNO



SEZIONE C

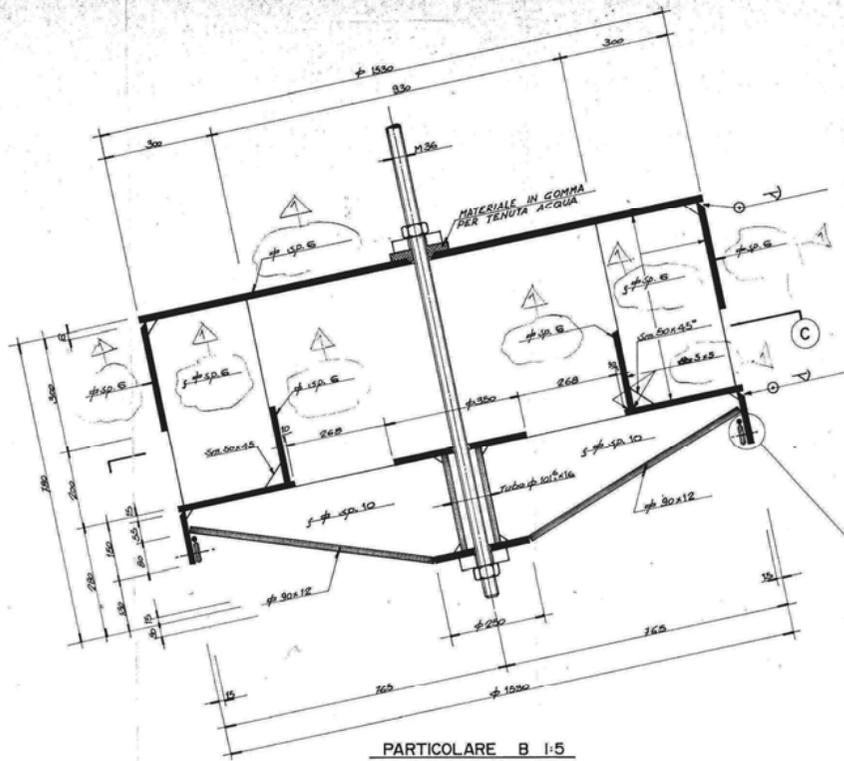


SEZIONE A

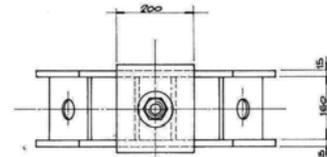
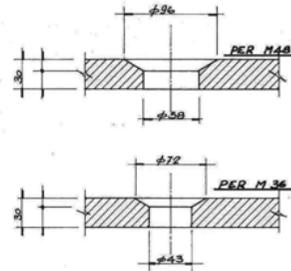


SEZIONE B

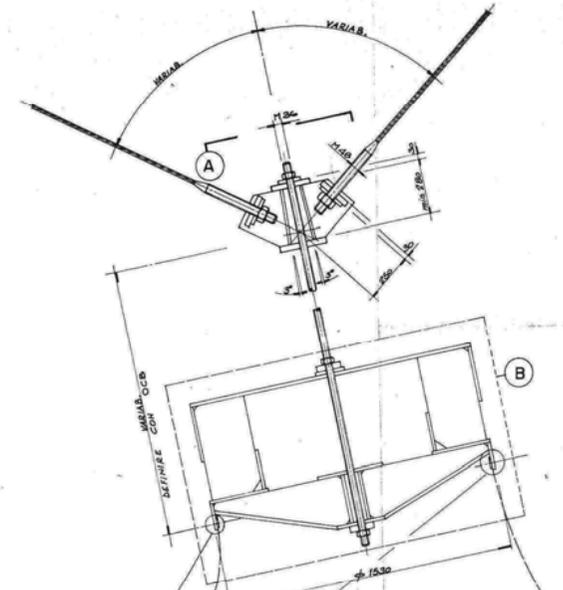
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA ATTACCO TIPICO TRAVI SECONDARIE ALL'ANGOLO INFERIORE INTERNO</b>		
TAVOLAN. <b>C. ST.</b>	DATA: Novembre 2004	
900	SCALA:	



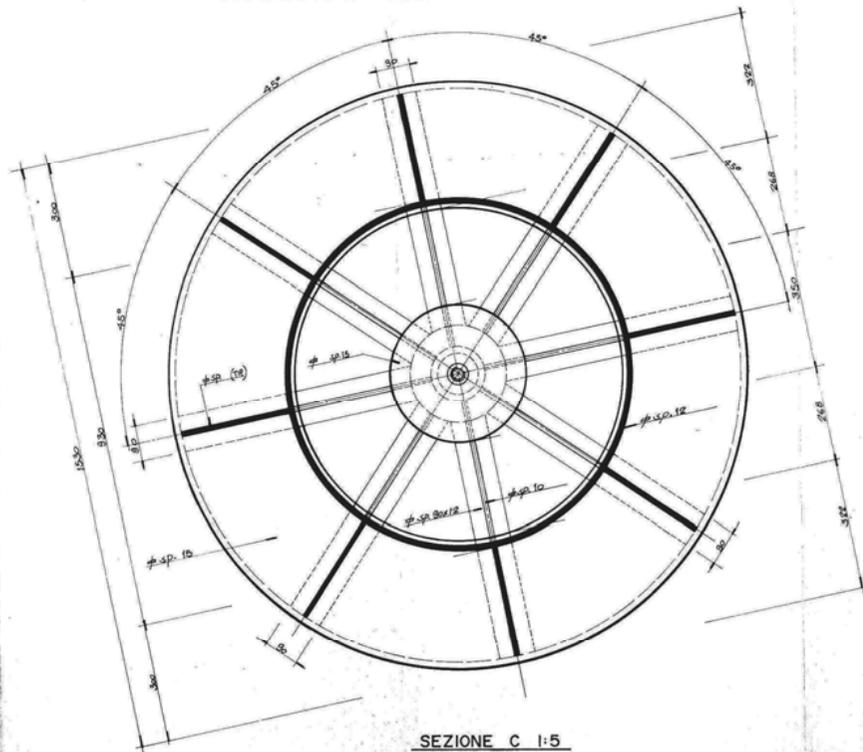
PARTICOLARE B 1:5



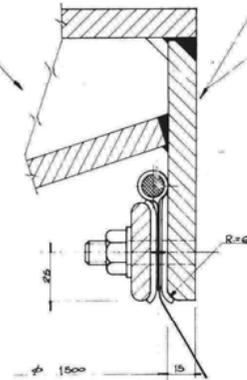
VISTA A 1:5



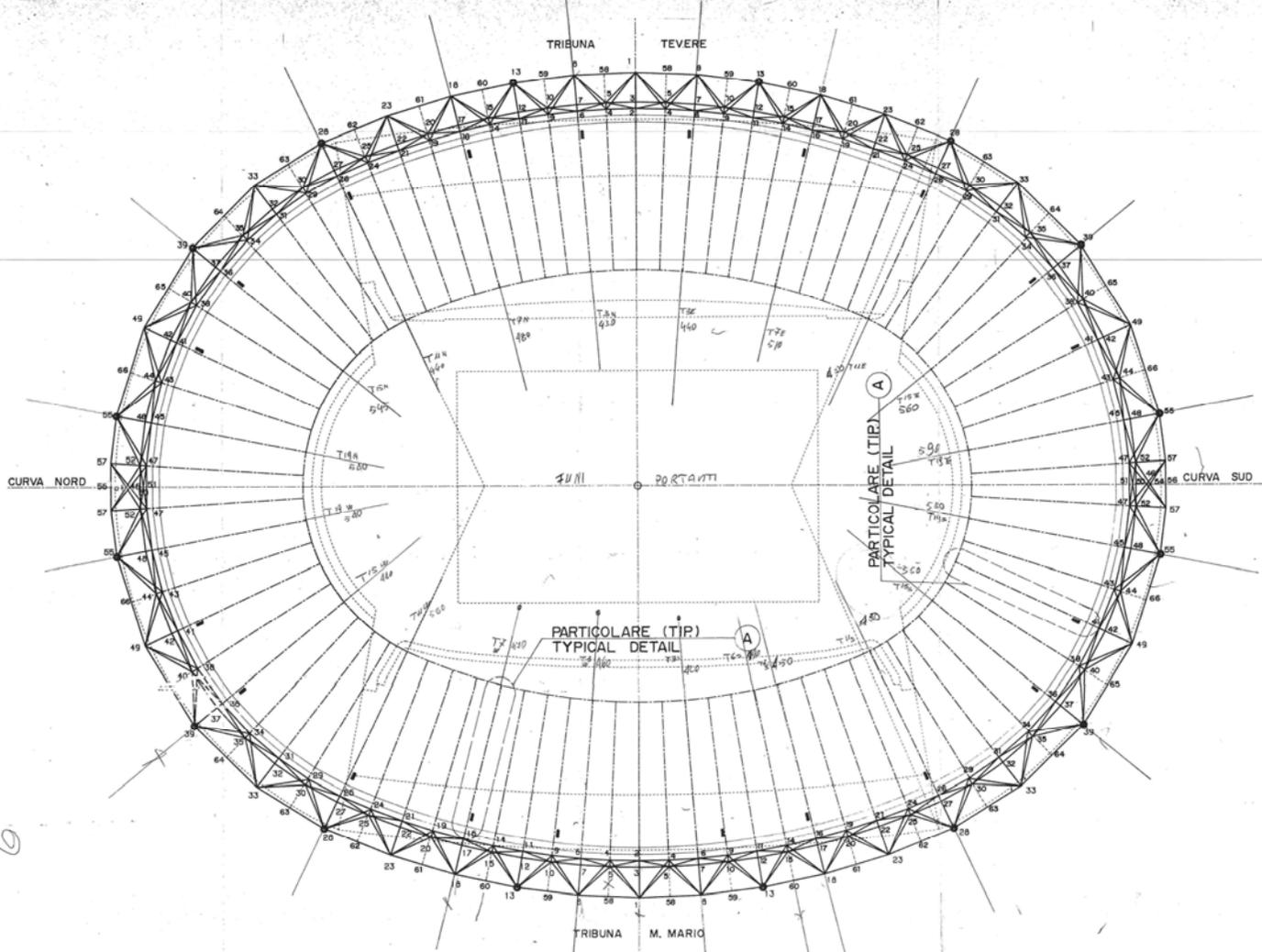
SEZIONE DI ASSIEME CUPOLINO - "TIPO"



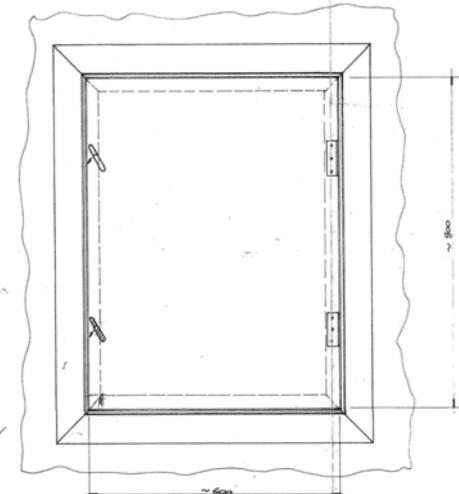
SEZIONE C 1:5



MODELLO: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COBERTURA          STRUTTURA PER CUPOLINO          DI CHIUSURA CON          PERMETTEALI</b>		
TAVOLAN: <b>C. ST.          823</b>	DATA: Novembre 2004 SCALA: <b>VARIE</b>	TAVOLA: <b>823</b>
PROGETTO: Ing. Lucio Scovelli		TAVOLA: <b>823</b>
		TAVOLA: <b>823</b>

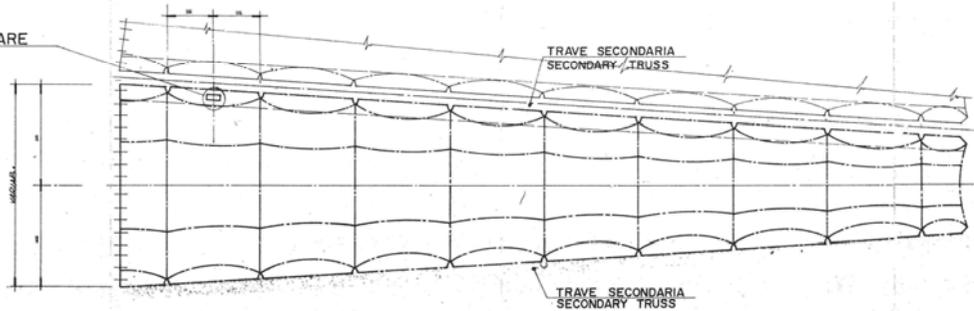


PIANTA DISPOSIZIONE APERTURE  
PLAN WITH POSITION OF OPENINGS 1:500



PARTICOLARE B 1:5  
DETAIL  
(N° 20 APERTURE  
N° 20 HATCH DOORS)

B PARTICOLARE  
DETAIL



PARTICOLARE A 1:100  
DETAIL

NOME: STADIO OLIMPICO SPECIFICA: COPERTURA APERTURE SUI TETTI DI COPERTURA PIANTE E PARTICOLARI		
TAVOLA: C. ST. 824	DATA: Novembre 2004 SCALA: VAR. PROGETTO: Ing. Lucio Bonelli	

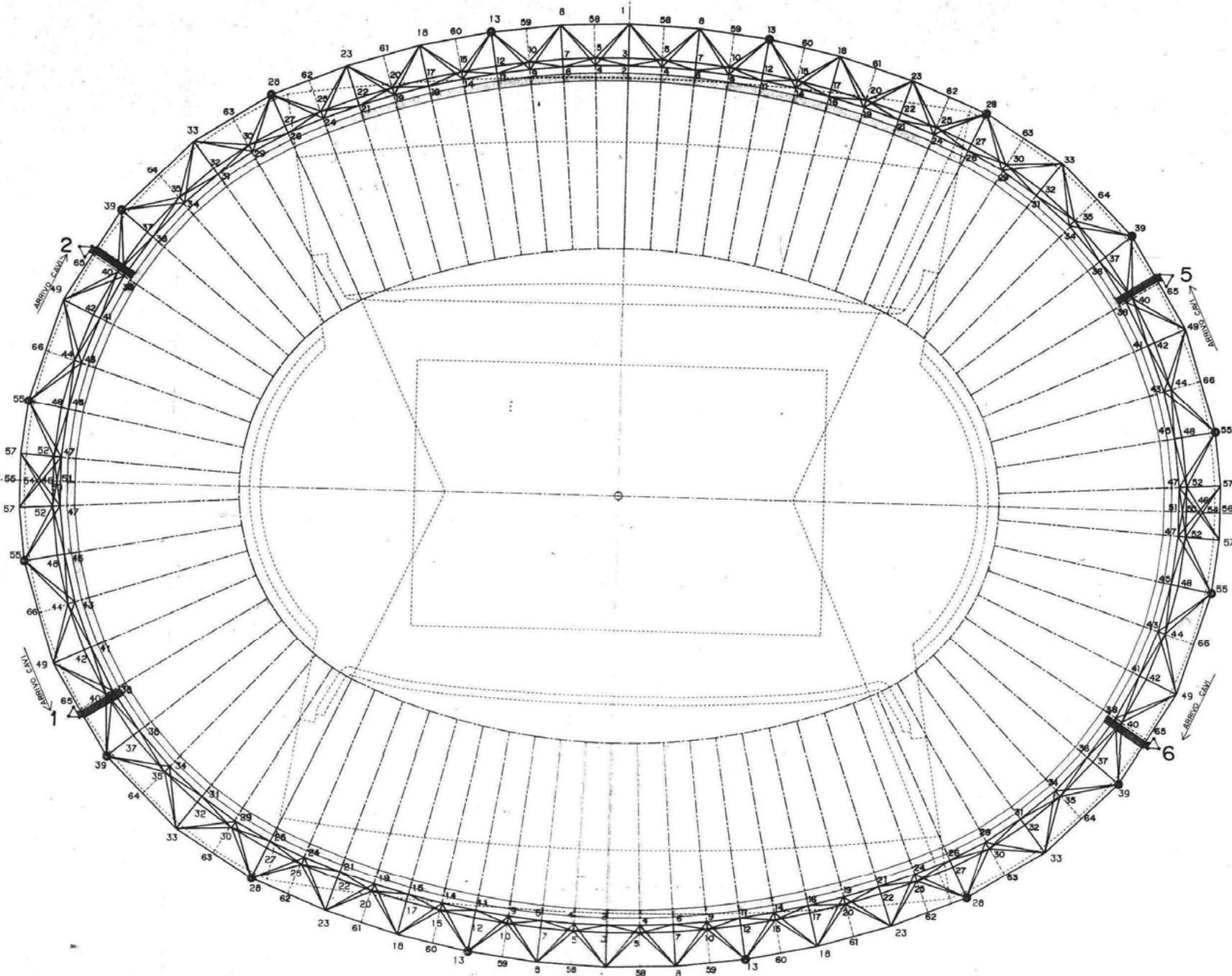


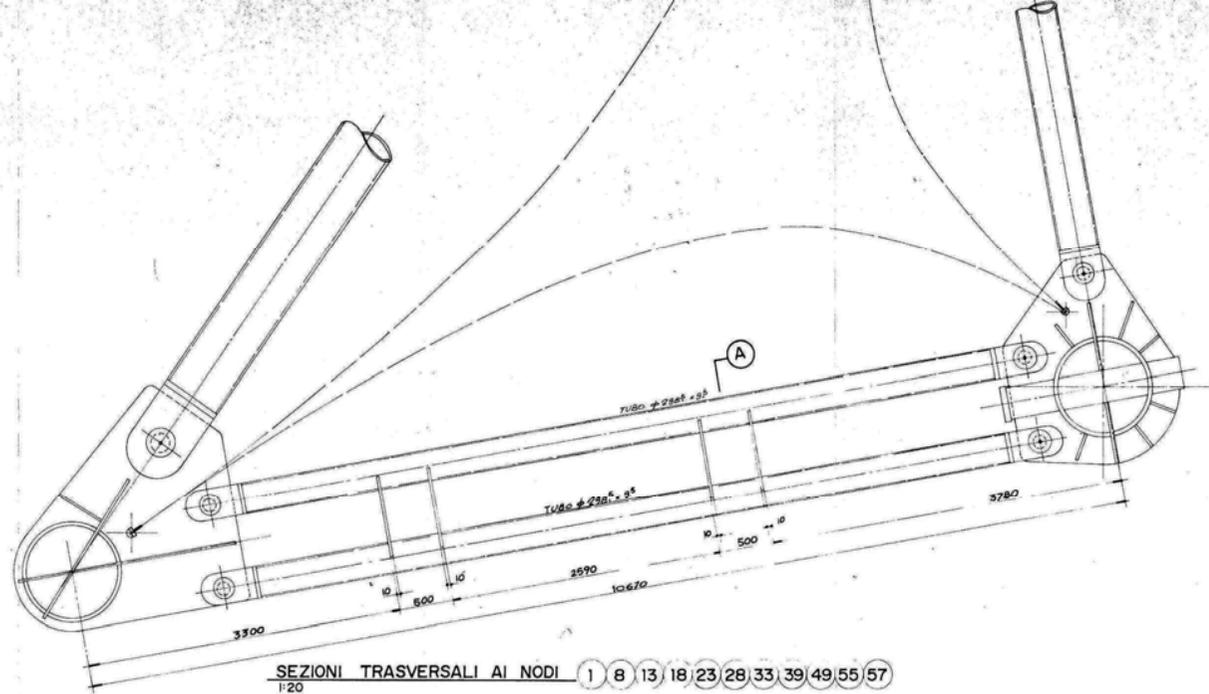
TRIBUNA TEVERE

TRIBUNA M. MARIO

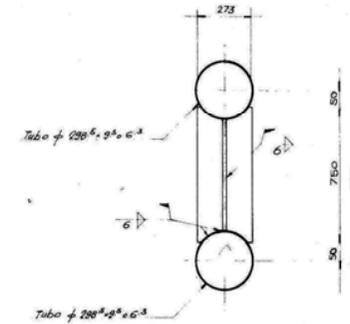
CURVA NORD

CURVA SUD



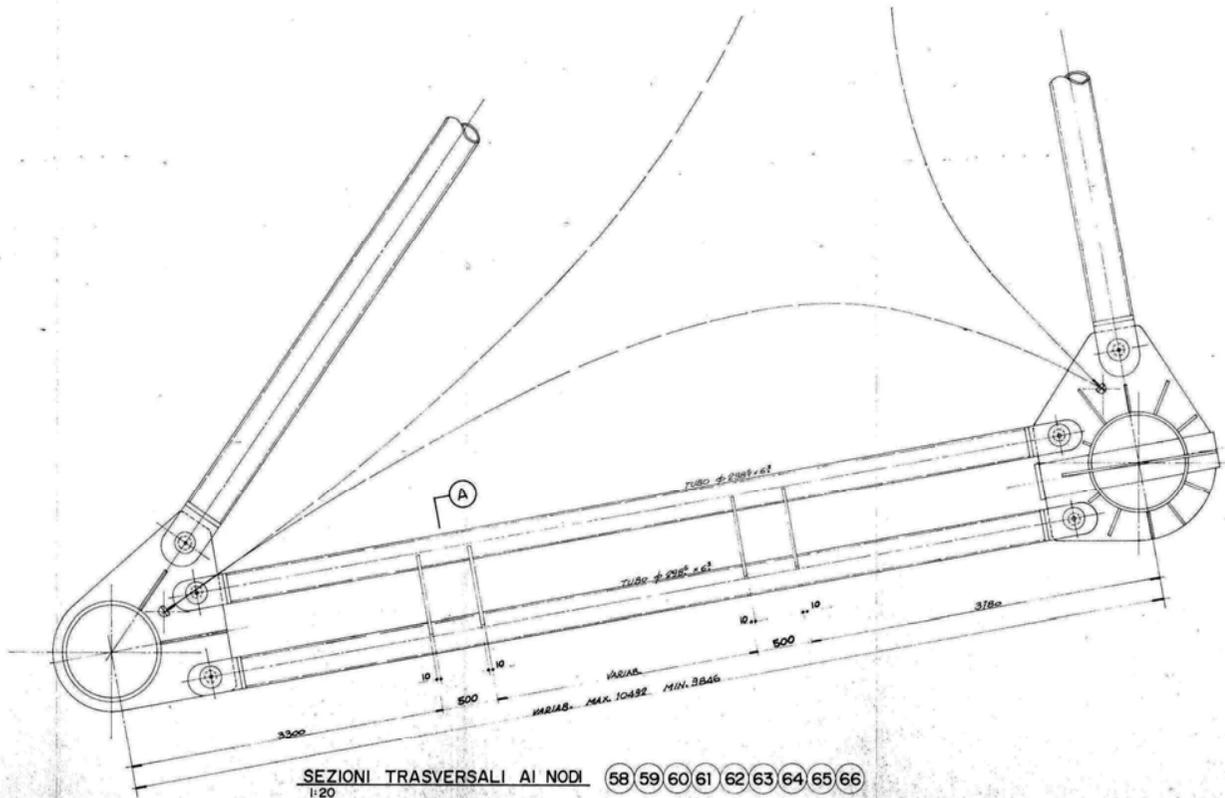


SEZIONI TRASVERSALI AI NODI 1 8 13 18 23 28 33 39 49 55 57  
1/20



SEZIONE A  
1/10

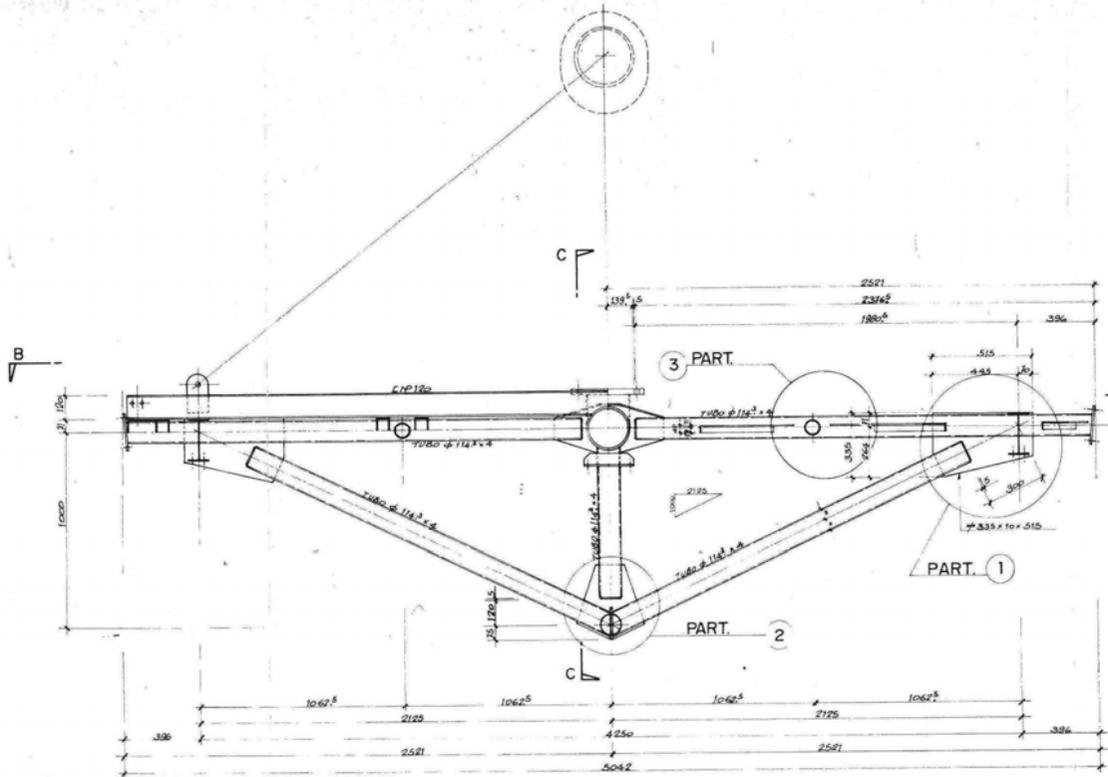
**N.B.** POSIZIONARE I PIATTI DI IRRIGIDIMENTO FRA I TUBI ORIZZONTALI INFERIORI SU TUTTE LE SEZIONI TRASVERSALI DELLA TRAVE DI BORDO COME RICHIAMATO A DISEGNO.



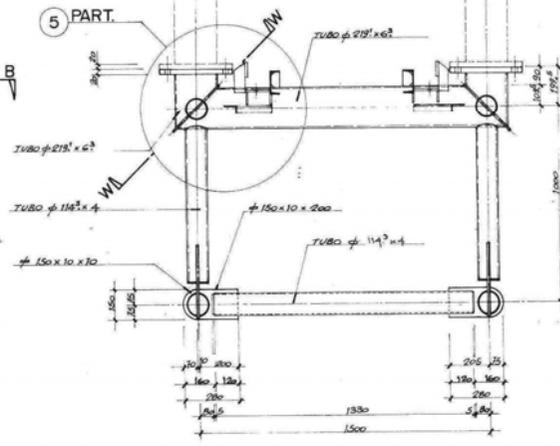
SEZIONI TRASVERSALI AI NODI 58 59 60 61 62 63 64 65 66  
1/20

IMMOBILE: STADIO OLIMPICO		
SPECIFICA: COLLEGAMENTI VERTICALI FRA I DUE TUBI ORIZZONTALI INFERIORI		
TAVOLA: C. ST. 228	DATA: Novembre 2004	Coni Servizi
PROGETTO: Ing. Lucio Scornelli		Coni Servizi

MODULO TIPICO INTERMEDIO

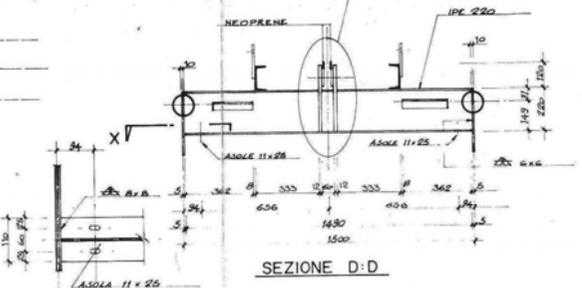


SEZIONE A:A

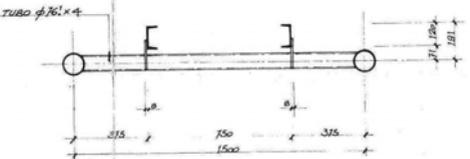


SEZIONE C:C

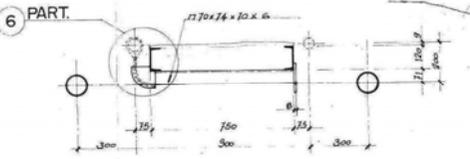
SEZIONE X:X



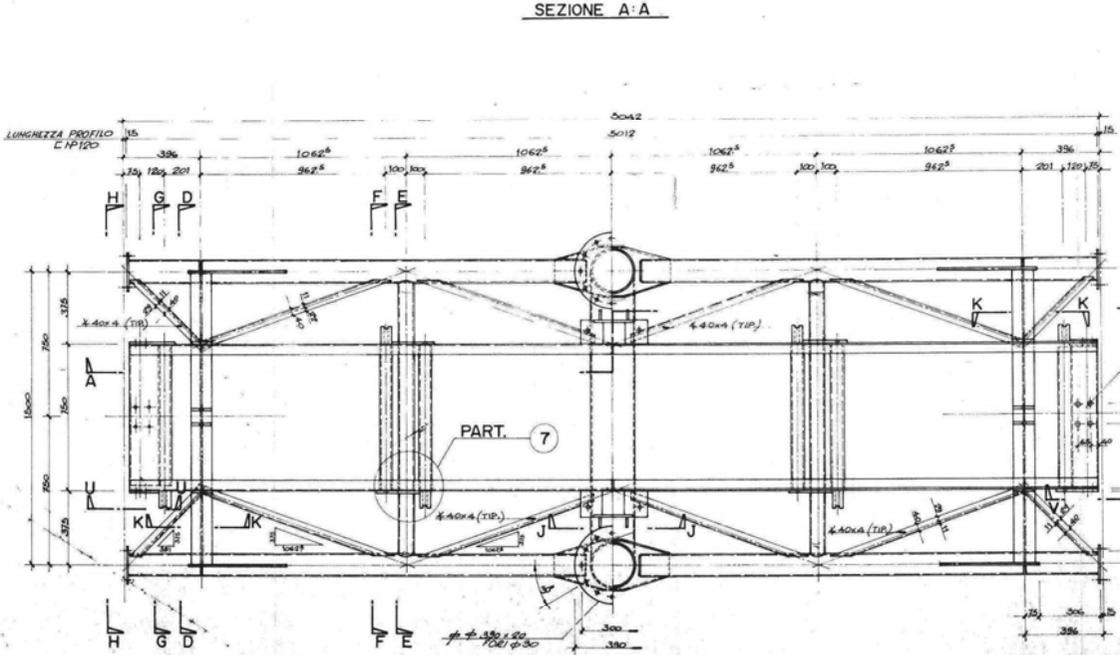
SEZIONE D:D



SEZIONE E:E



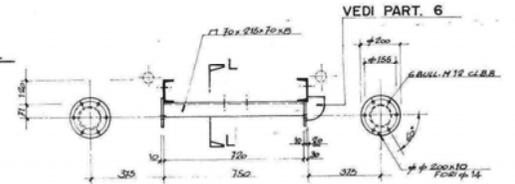
SEZIONE F:F



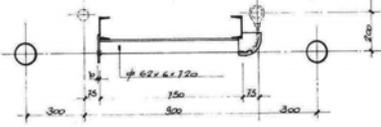
SEZIONE B:B



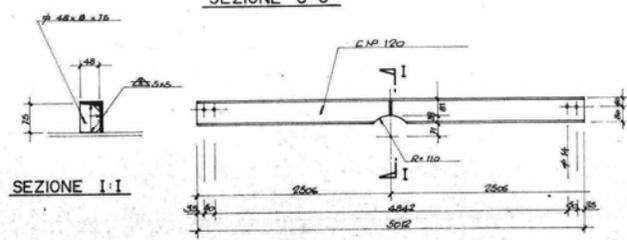
SEZIONE L:L



SEZIONE H:H



SEZIONE G:G

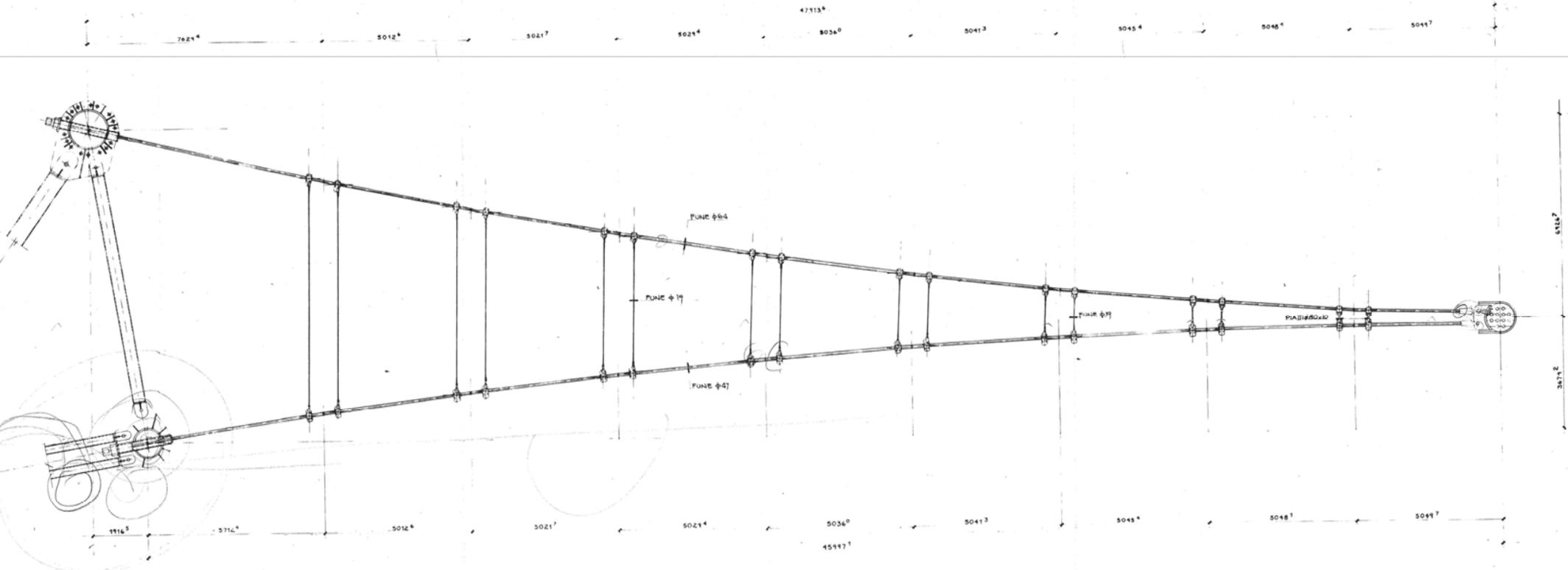


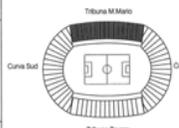
SEZIONE I:I

N.B. PER PARTICOLARI E SEZIONI MANCANTI VEDI DIS. C.ST. 832

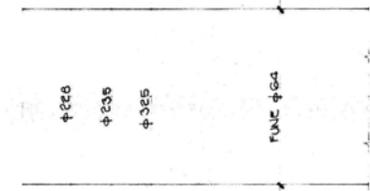
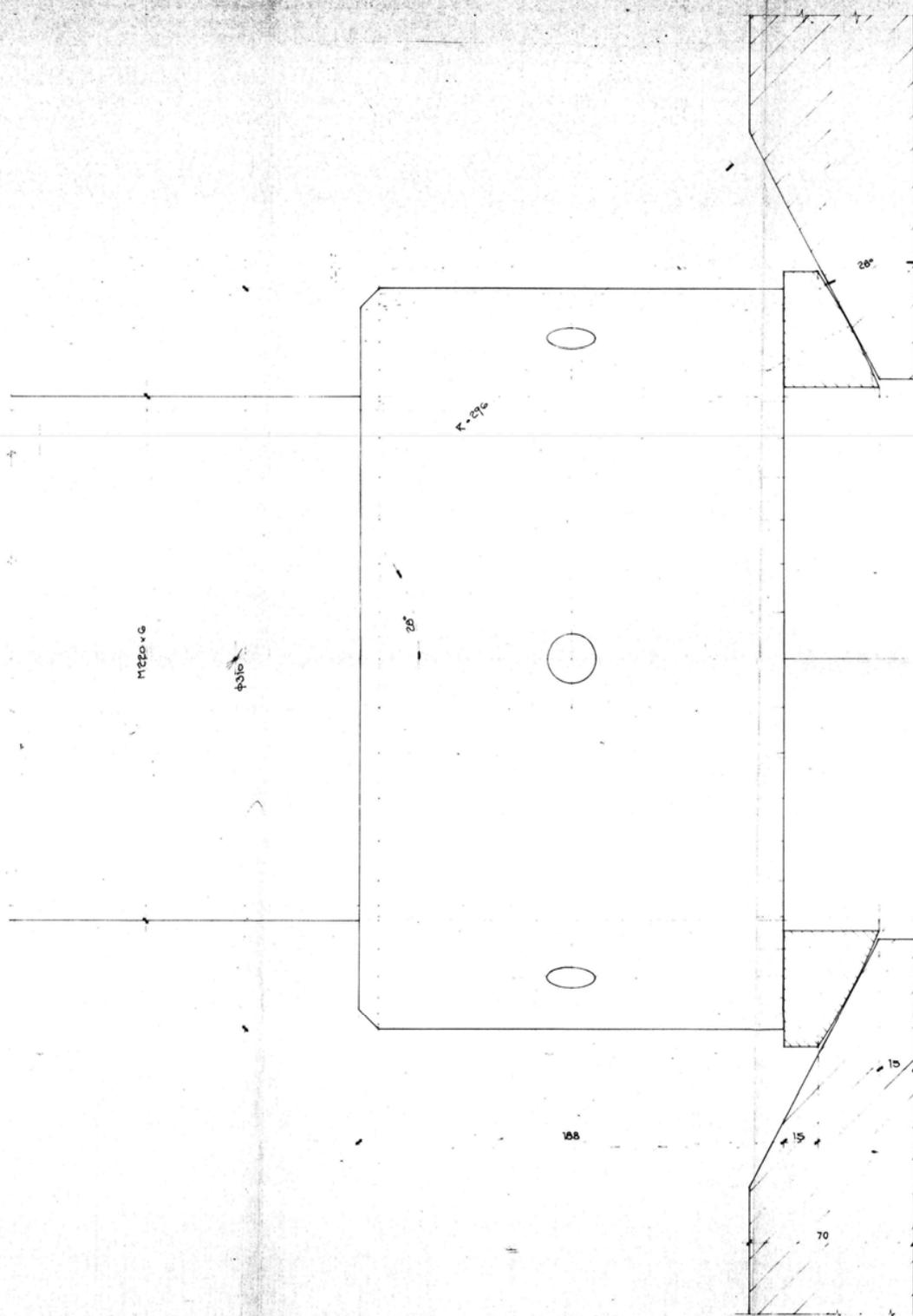
MODELLO: STADIO OLIMPICO		
SPECIFICA: COPERTURA STRUTTURE SECONDARIE MODULO TIPICO		
TRACIAT: C. ST. 831	DATA: Novembre 2004 SCALA: 1:100	PROGETTO: Ing. Lucio Bonneri
PREPARAZIONE DEL PROFILO C.N.P. 120		Coni Servizi



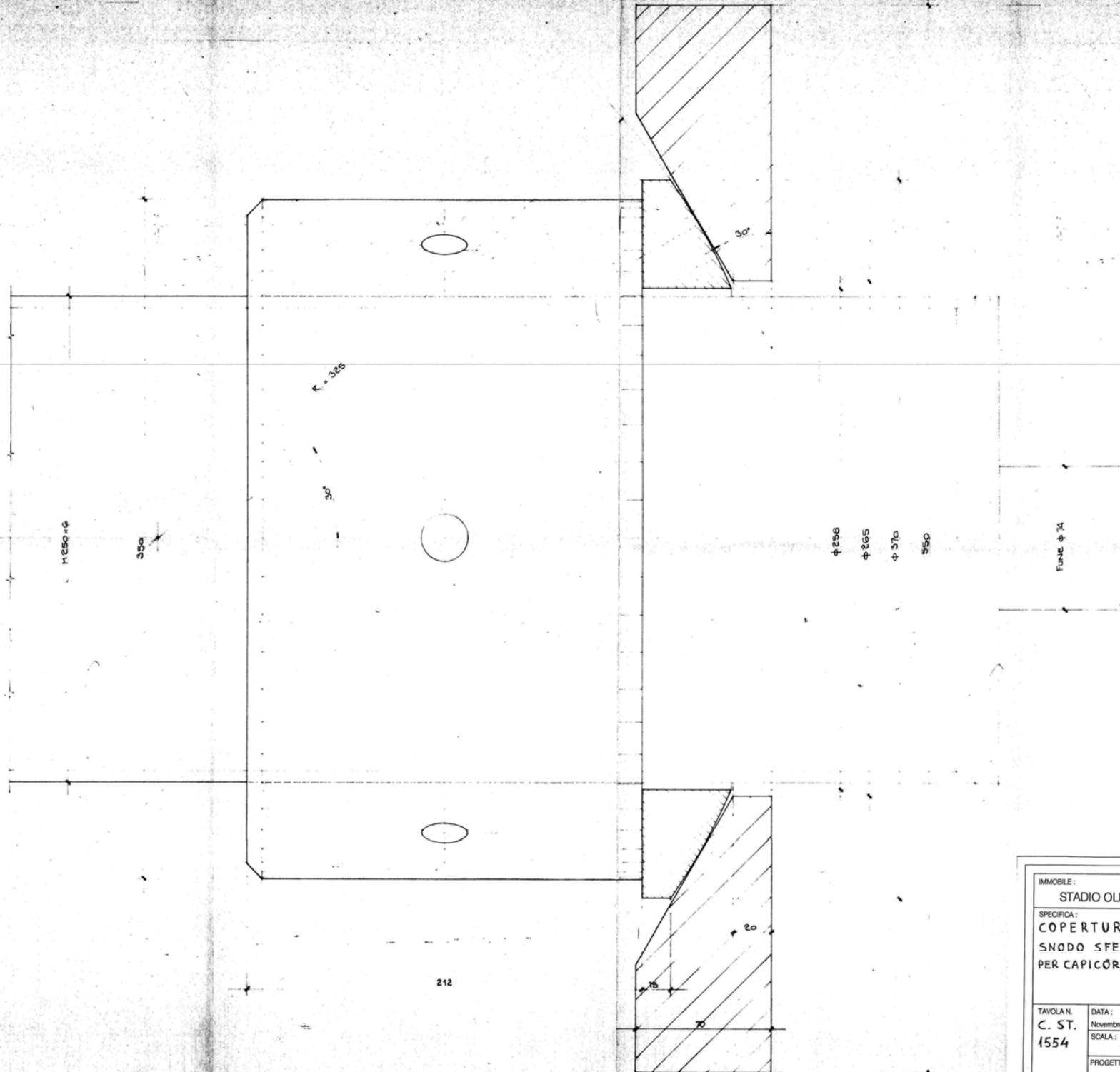


IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COBERTURA SEZIONE TRAVE T4 (SEZIONE TIPICA DA T1 A T40)</b>		
TAVOLA N. <b>C. ST. 1532</b>	DATA: Novembre 2004 SCALA: <b>1:50</b>	
PROGETTO: Ing. Lucio Scorsini		

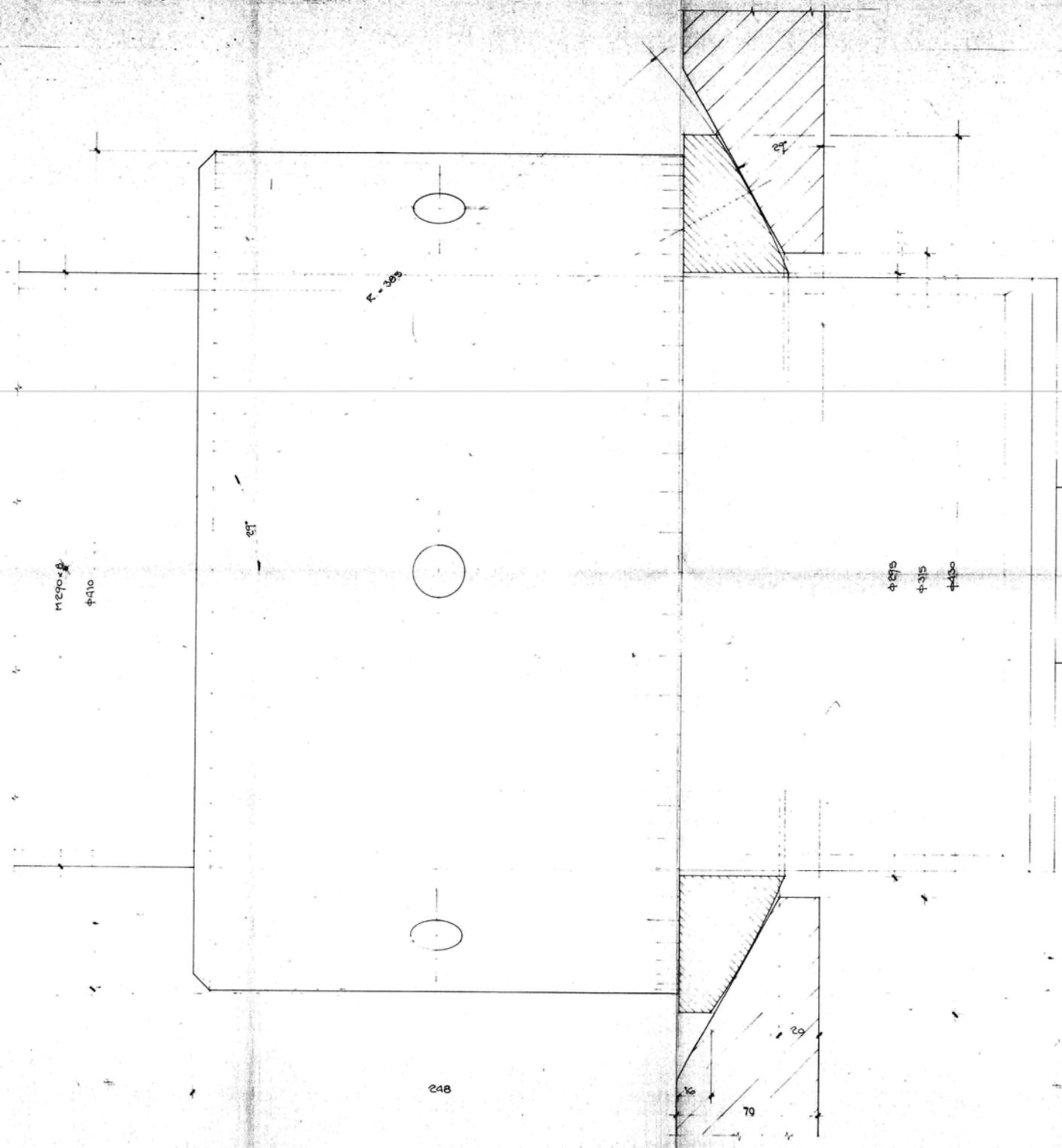




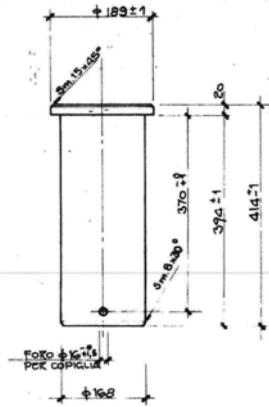
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA SNODO SFERICO PER CAPICORDA Ø 64</b>		
TAVOLA N. <b>C. ST 1553</b>	DATA: Novembre 2004	
SCALA: <b>1:1</b>		
PROGETTO: Ing. Lucio Scoretti		<b>Coni Servizi</b>



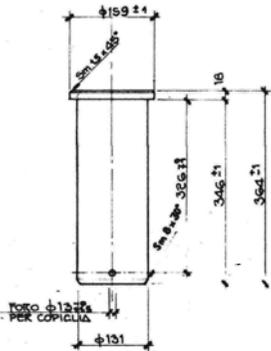
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA SNODO SFERICO PER CAPICORDA Ø 74</b>		
TAVOLAN. C. ST. <b>1554</b>	DATA: Novembre 2004 SCALA: <b>1:1</b>	
PROGETTO: Ing. Lucio Scornetti		



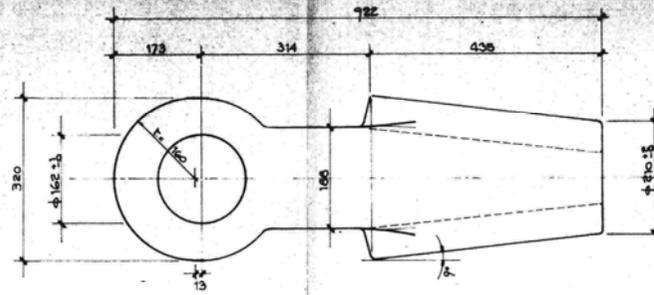
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA SNODO SFERICO PER CAPICORDA Ø 87</b>		
TAVOLA N. C. ST. 1555	DATA: Novembre 2004 SCALA: 1:1	
PROGETTO: Ing. Lucio Scornetti		



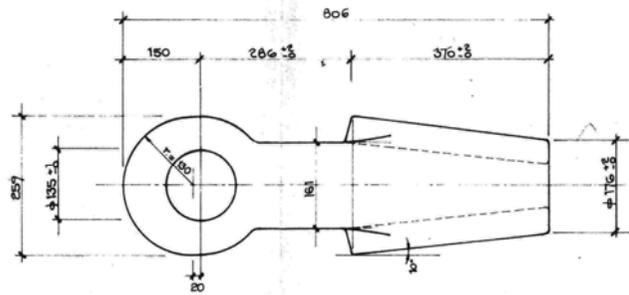
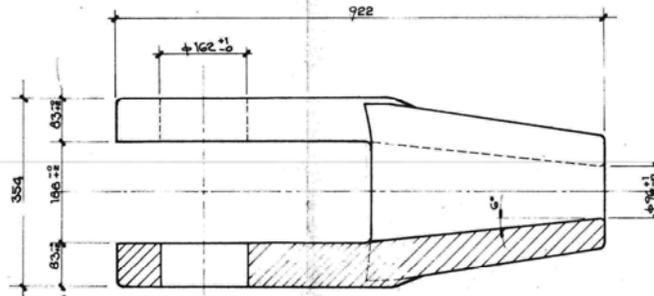
COPIGLIA A 16 x 230 UNI 1336



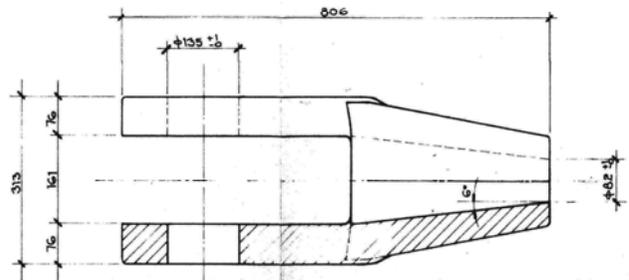
COPIGLIA A 13 x 190 UNI 1336



CAPICORDA  
PER FUNI Ø 67  
PESSO Kg 270  
N° 40 PEZZI



CAPICORDA  
PER FUNI Ø 74  
PESSO Kg 194  
N° 40 PEZZI



### MATERIALI

CAPICORDA : ACCIAIO PEG70 BONIFICATO  
ZINCATURA A CALDO > 300g/m<sup>2</sup>

PERNI : ACCIAIO LAMINATO 39 NiCrMo3  
UNI 7045 - BONIFICATO

ZINCATURA A CALDO > 300g/m<sup>2</sup>  
RIPASSARE I FORI DELLE COPIGLIE DOPO LA ZINCATURA

COPIGLIA ACCIAIO ZINCATO

TUTTI GLI SPIGOLI DEVONO ESSERE RACCORDATI

IMMOBILE:  
STADIO OLIMPICO

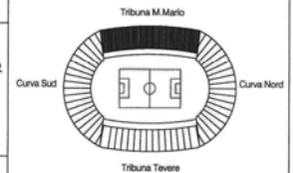
SPECIFICA:  
COPERTURA  
CAPICORDA APERTI (PESSO  
FUNI Ø 87 E Ø 74)

TAVOLA N.  
C. S. T.  
1556

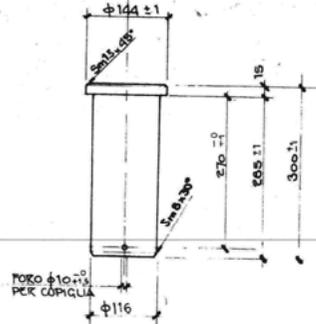
DATA:  
Novembre 2004

SCALA:  
1:5

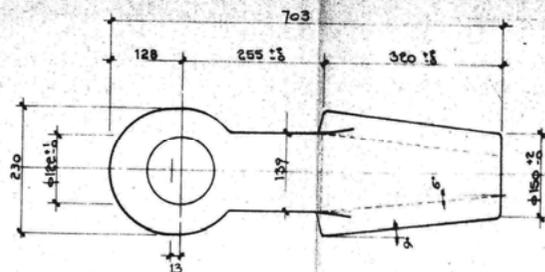
PROGETTO:  
Ing. Lucio Scornetti



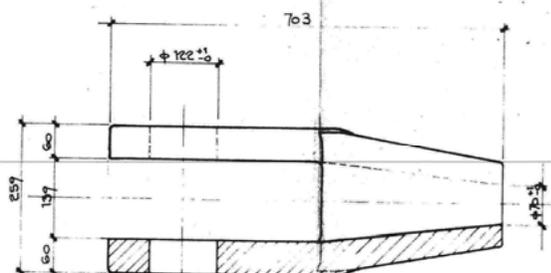
Italia  
**Coni Servizi**



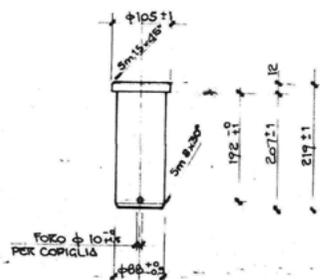
COPIGLIA Δ 10 x 160 UNI 1336



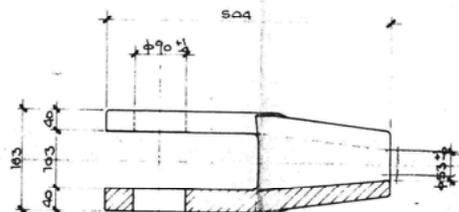
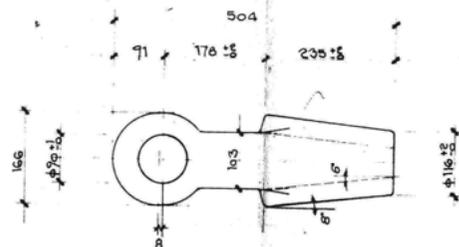
CAPICORDA  
PER FUNI φ 64  
PESSO Kg 105  
N° 38 PEZZI



CAPICORDA  
PER FUNI φ 47  
PESSO Kg 47  
N° 38 PEZZI



COPIGLIA Δ 10 x 150 UNI 1336



### MATERIALI

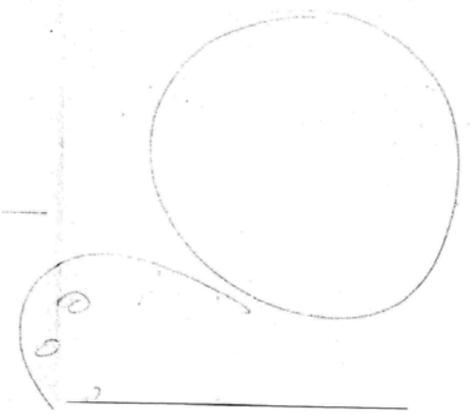
CAPICORDA : ACCIAIO FeC70 BONIFICATO  
ZINCATURA A CALDO ≥ 300g/m<sup>2</sup>

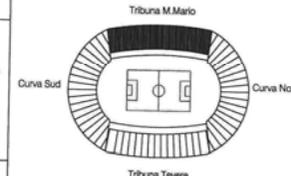
PERNI : ACCIAIO LAMINATO 39 NiCrMo3  
UNI 7845 - BONIFICATO

ZINCATURA A CALDO ≥ 300g/m<sup>2</sup>  
RIPASSARE I PORI DELLE COPIGLIE DOPO LA ZINCATURA

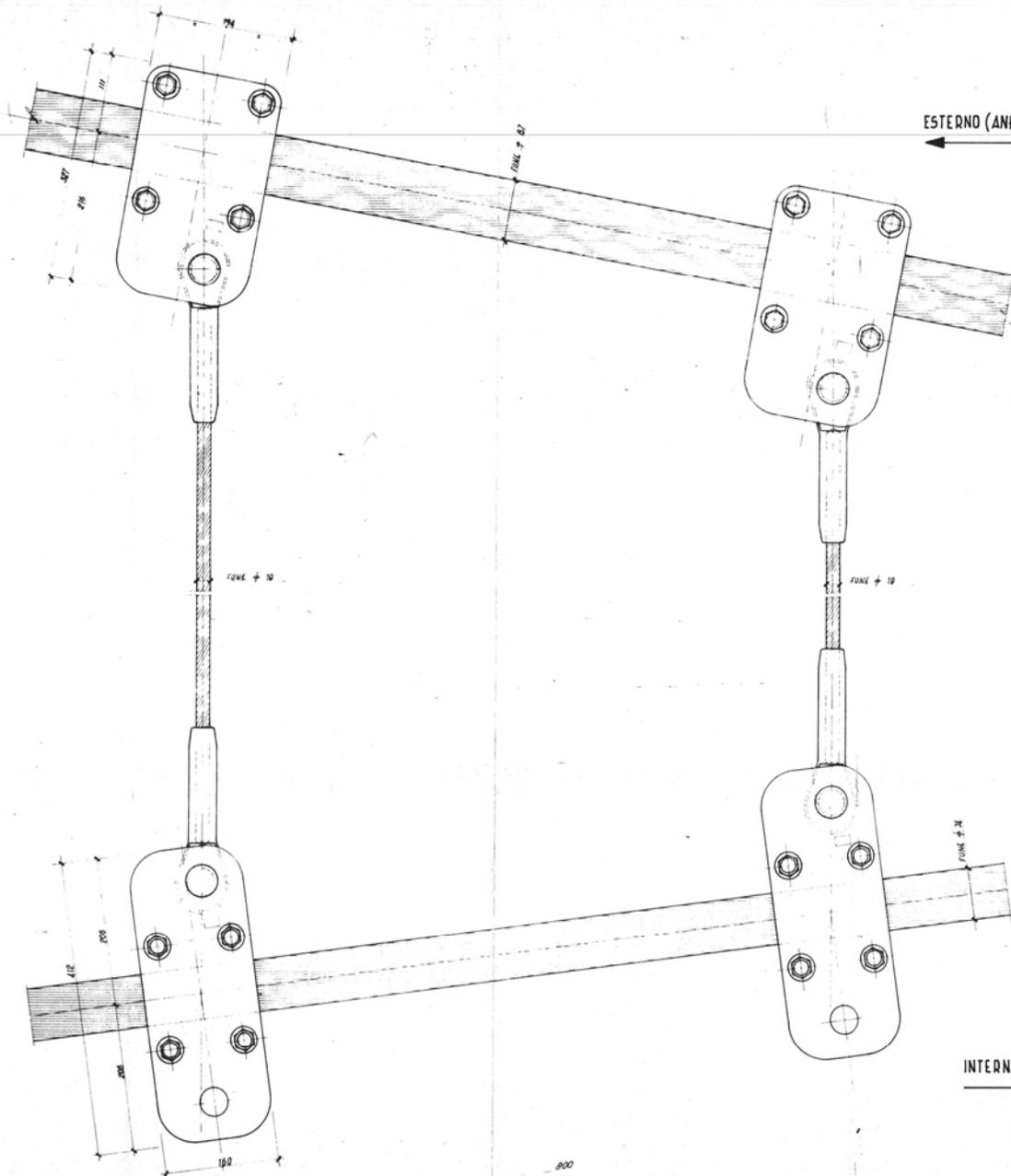
COPIGLIA ACCIAIO ZINCATO

TUTTI GLI SPIGOLI DEVONO ESSERE RACCORDATI



IMMOBILE : <b>STADIO OLIMPICO</b>		 Tribuna M. Mario Curva Sud Curva Nord Tribuna Tevere	
SPECIFICA : COPERTURA CAPICORDA (APERTI PER FUNI Ø64 E Ø47)		DATA: Novembre 2004 SCALA: 1:5 PROGETTO: Ing. Lucio Scornetti	
TAVOLA N. C. ST. 1557	 <b>Coni Servizi</b>		



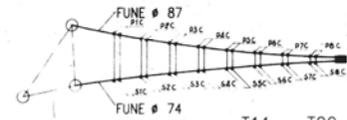


ESTERNO (ANELLO CADDENTEDIA)

INTERNO (CAMPO)

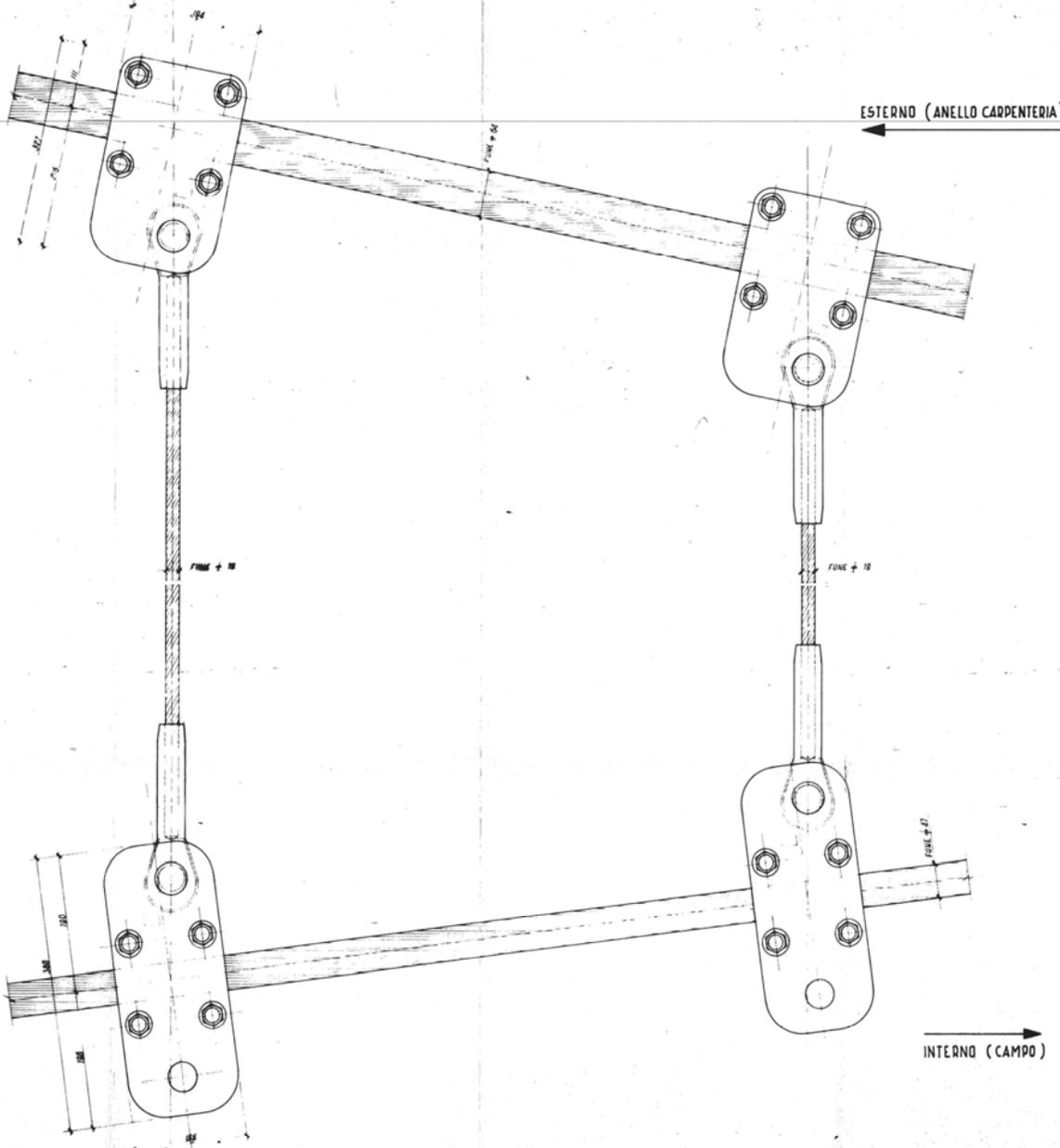


BULLONI M8x CLASSE 8.8  
 COPPIA DI SERRAGGIO 100 N/m [10 kg]

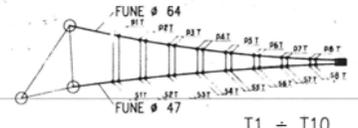


T11 ÷ T20

IMPIEGHI: STADIO OLIMPICO SPECIFICA: COPERATURA ORDITURA DI PARETE Ø87 - Ø74		
FASCIANI: C. ST. 1674	DATA: Novembre 2004 SCALA: 4:2.5 PROGETTO: Ing. Lucio Scovazzi	



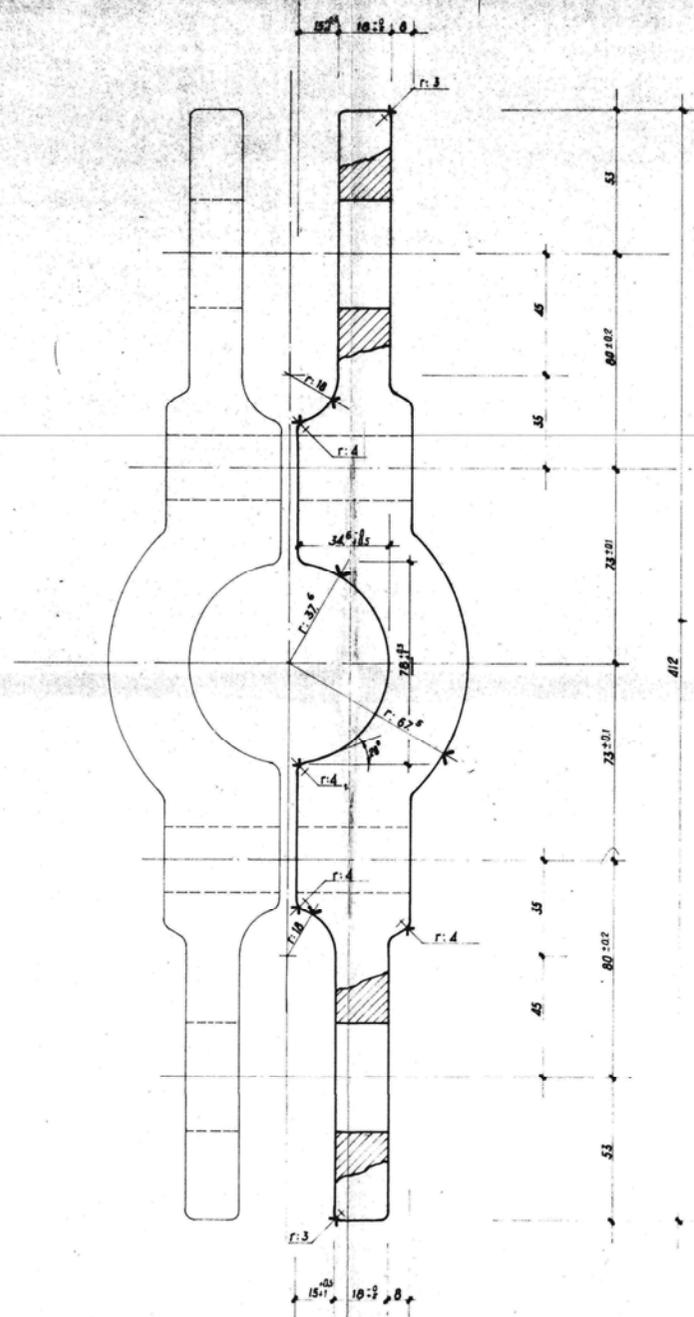
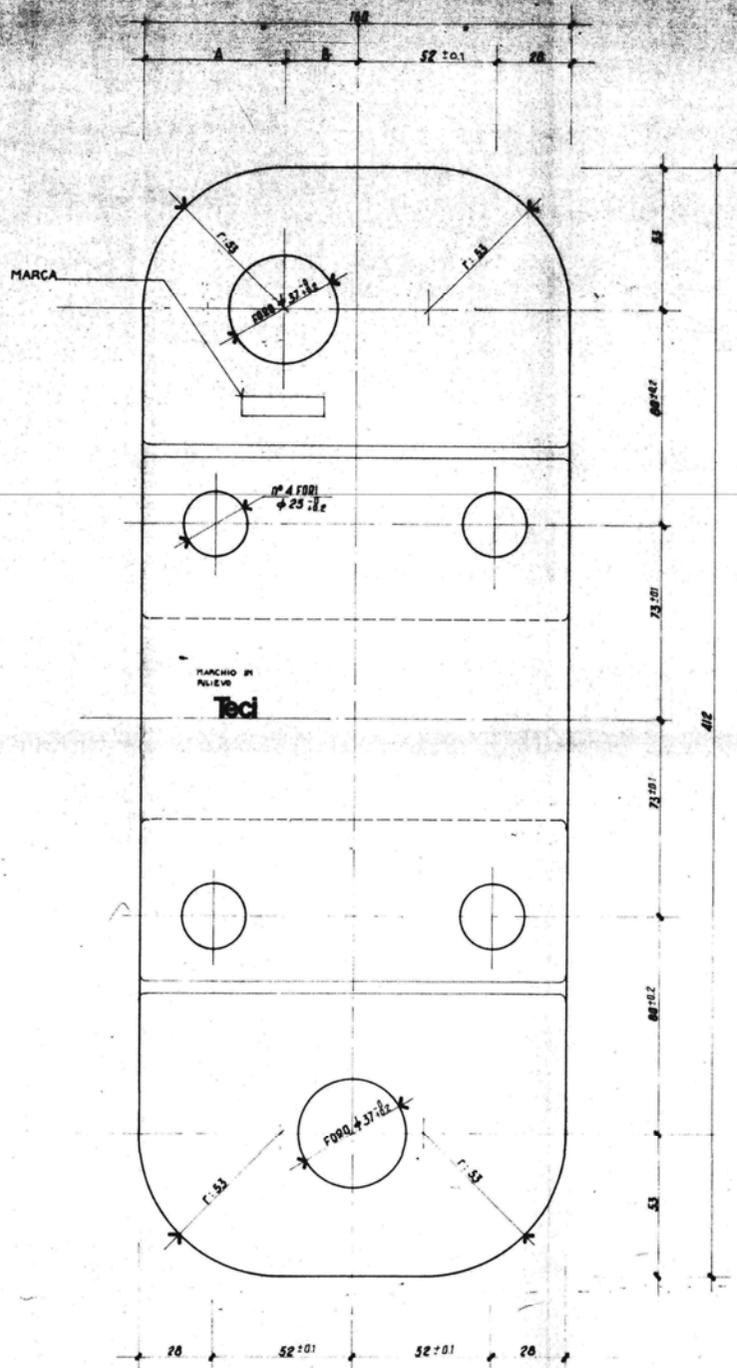
BULLONI M24 CLASSE 8.8  
 COPPIA DI SERRAGGIO 400 Nm [50 Kg/m]



T1 + T10

IMMOBILE: STADIO OLIMPICO SPECIFICA: COPERTURA ORBITO R.A. DI PARETE #64 - #47		<p>Tribuna M. Mario          Tribuna Tevere</p>
TAVOLA: C. ST. 1572	DATA: Novembre 2004 SCALA: 1:2.5 PROGETTO: Ing. Lucio Scornati	
		<p>Coni Servizi</p>



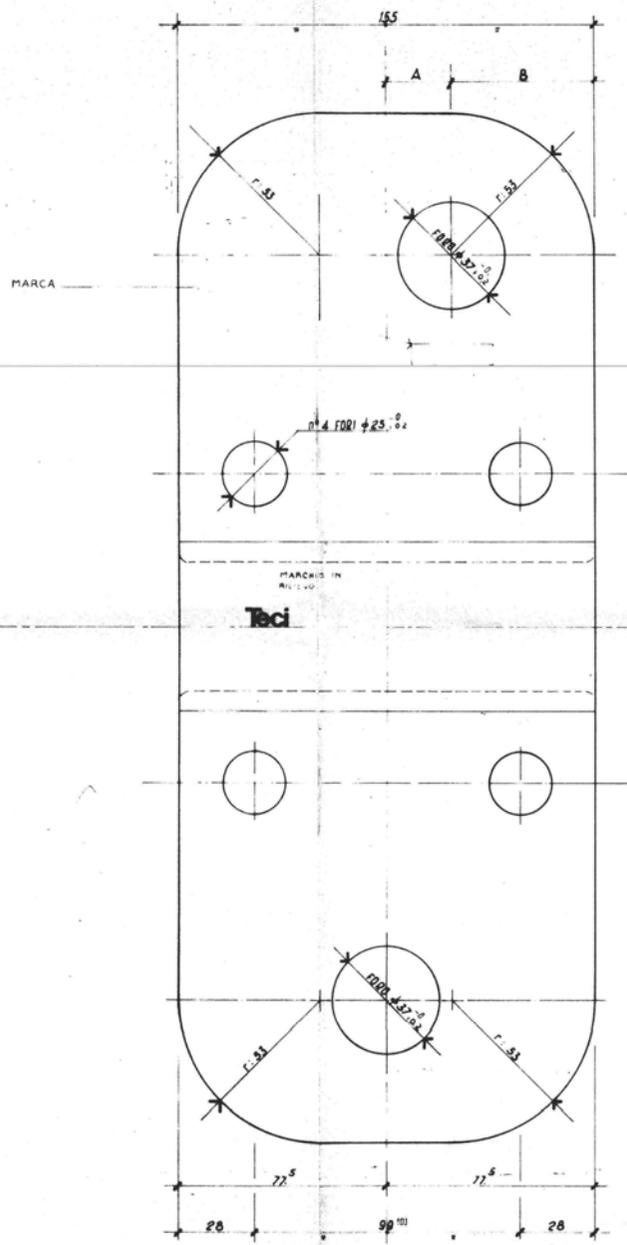
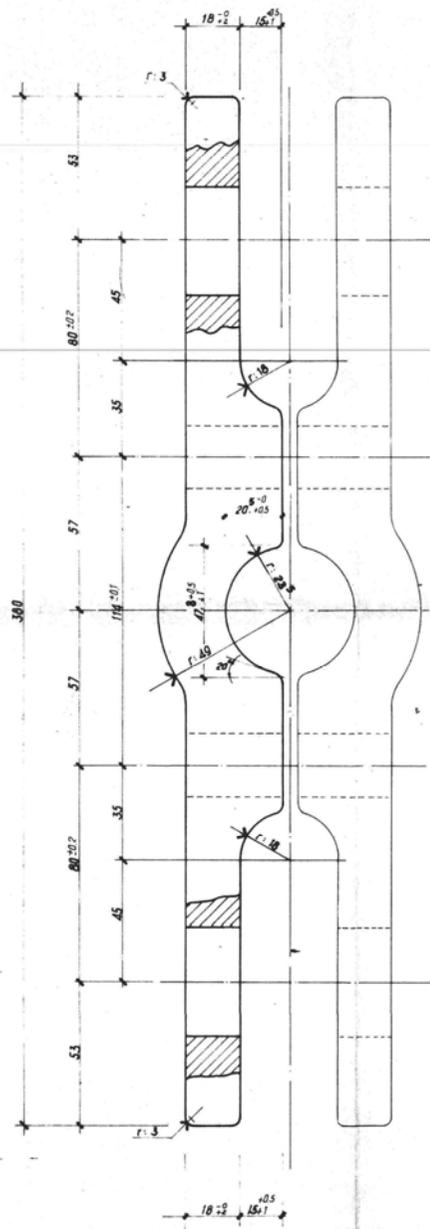


N° PEZZI	A	B	MARCA
80	60	20	S1C
80	62	18	S2C
80	64	16	S3C
80	67	13	S4C
80	69	11	S5C
80	72	8	S6C
80	74	6	S7C
80	76	4	S8C

- ZINCATURA A CALDO  $\geq 300 \text{ g/m}^2$
- N° 640 PEZZI
- RAGGI NON QUOTATI R = 4 mm.
- TOLLERANZE NON QUOTATE SECONDO DIN 7526

IMMOBILE: STADIO OLIMPICO		
SPECIFICA: COBERTURA CORSETTI PER FUNI Ø 74		
TAVOLA N. C. ST. 1576	DATA: Novembre 2004 SCALA: 1:1 PROGETTO: Ing. Lucio Scornelli	

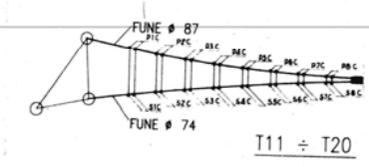
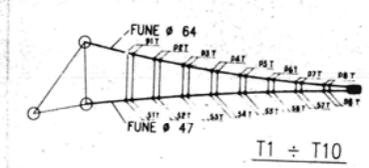
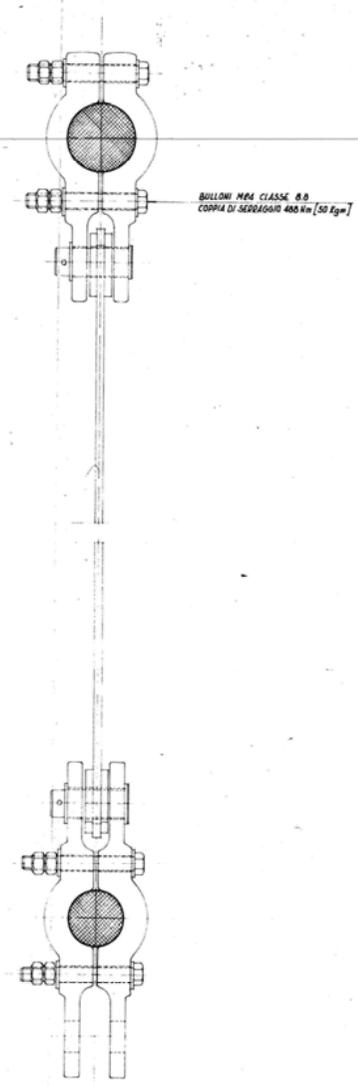
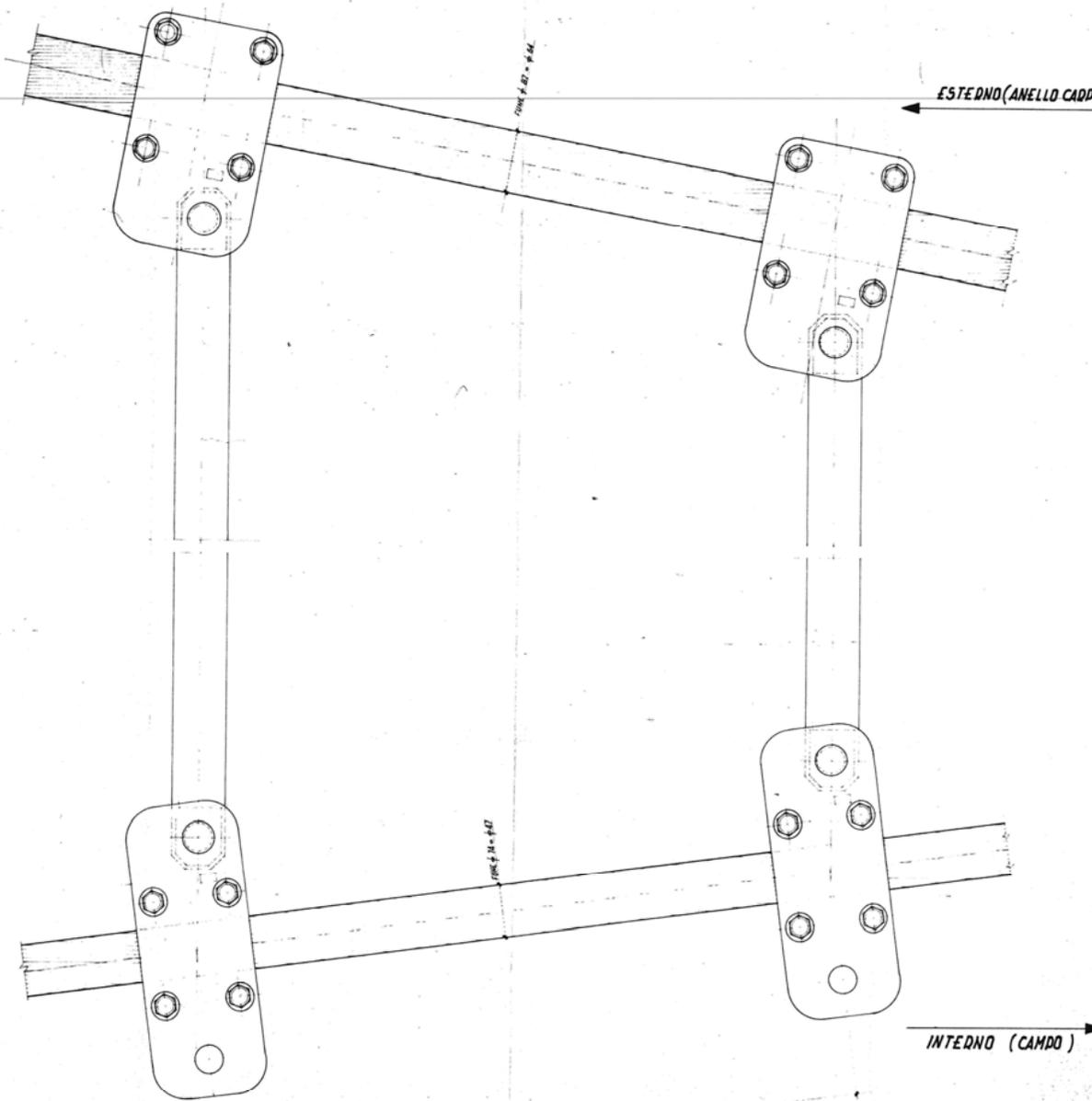




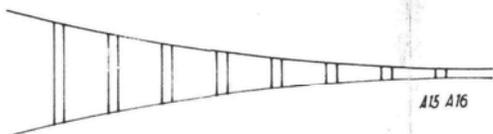
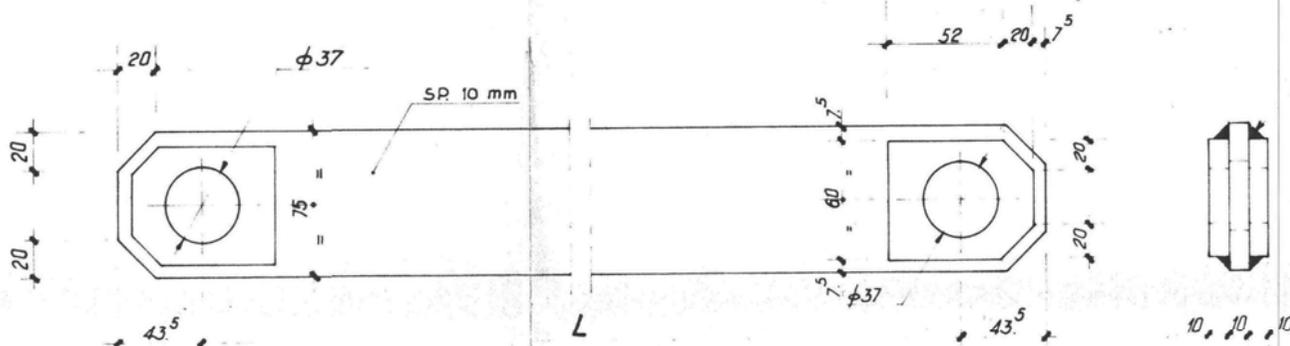
N° PEZZI	A	B	MARCA
76	18	59 <sup>S</sup>	S17
76	16	61 <sup>S</sup>	S27
76	14	63 <sup>S</sup>	S37
76	11	66 <sup>S</sup>	S47
76	0	68 <sup>S</sup>	S57
76	7	70 <sup>S</sup>	S67
76	5	72 <sup>S</sup>	S77
76	3	74 <sup>S</sup>	S87

- ZINCATURA A CALDO  $\geq 300 \text{ g/m}^2$
- N° 608 PEZZI
- RAGGI NON QUOTATI R=4mm.
- TOLLERANZE NON QUOTATE SECONDO DIM 7526

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COBERTURA FORSETTI PER FUNI Ø47</b>		
TAVOLA: C. ST. 1579	DATA: Novembre 2004 SCALA: 1:1 PROGETTO: Ing. Lucio Ecorretti	



IMMOBILE <b>STADIO OLIMPICO</b>		
OPERAZIONE <b>COBERTURA          ASSIEME PENDINI          SPECIALI PER FUNI          Ø87 - Ø64 - Ø74 - Ø47</b>		
TAVOLA N. <b>C. ST.          4685</b>	DATA: Novembre 2004	Tribuna M Medio Tribuna T Base Tribuna Tessa
PROGETTO: Ing. Lucio Scornelli		<b>Coni Servizi</b>



FAMIGLIA DI PENDINI	PER TENSO
A	T1 - T2 - T3 - T4 - T5 - T6 - T7
B	T8 - T9
C	T10
D	T11
E	T12
F	T13 - T14 - T15 - T16 - T17 - T18 - T19
G	T20

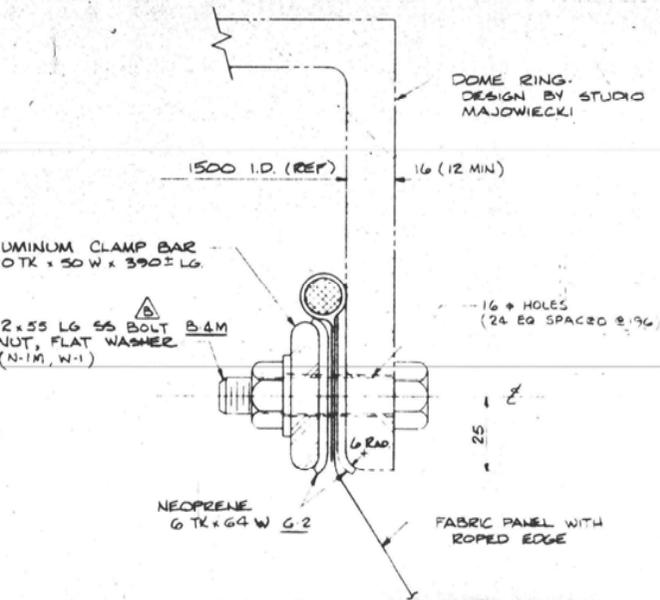
FAMIGLIA	DOS.	LUNGHEZZA (mm)	N° PEZZI
A	A15	584	26
	A16	503	26
B	A15	590	8
	A16	507	8
C	A15	568	4
	A16	488	4
D	A15	502	4
	A16	429	4
E	A15	486	4
	A16	415	4
F	A15	447	28
	A16	381	28
G	A15	430	4
	A16	367	4

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA PARTICOLARE PENDINI SPECIALI</b>		
TAVOLA N. C. ST. 1586	DATA: Novembre 2004 SCALA: 1:2 PROGETTO: Ing. Lucio Scorretti	



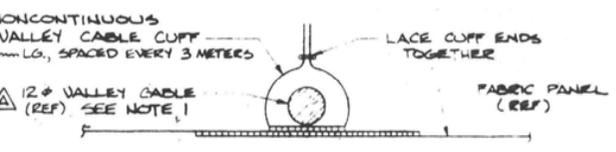
**BILL OF MATERIAL**

MARK NO	QTY REQD	DESCRIPTION	MATERIAL
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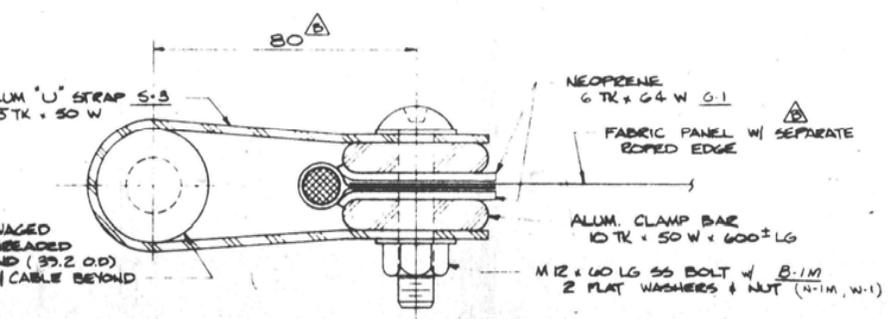
**SECTION K-K**

**FABRIC ATTACHMENT & DOME RING**

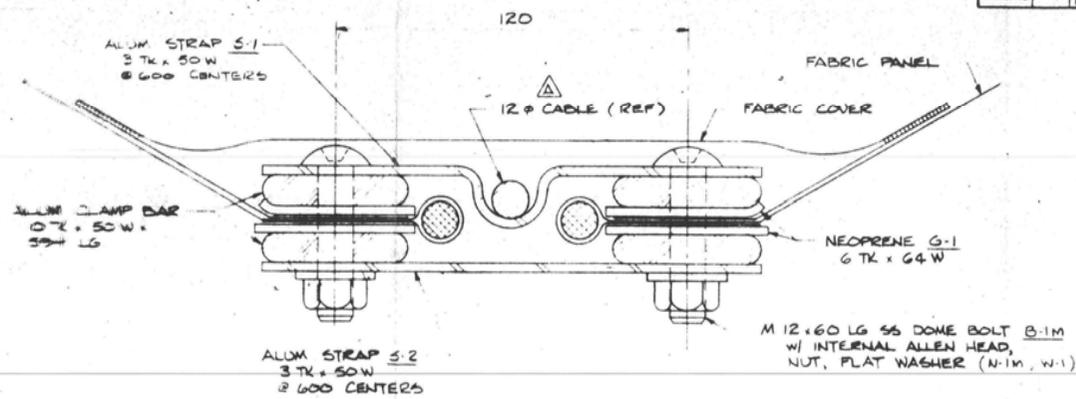


**SECTION L-L**

**VALLEY CABLE**

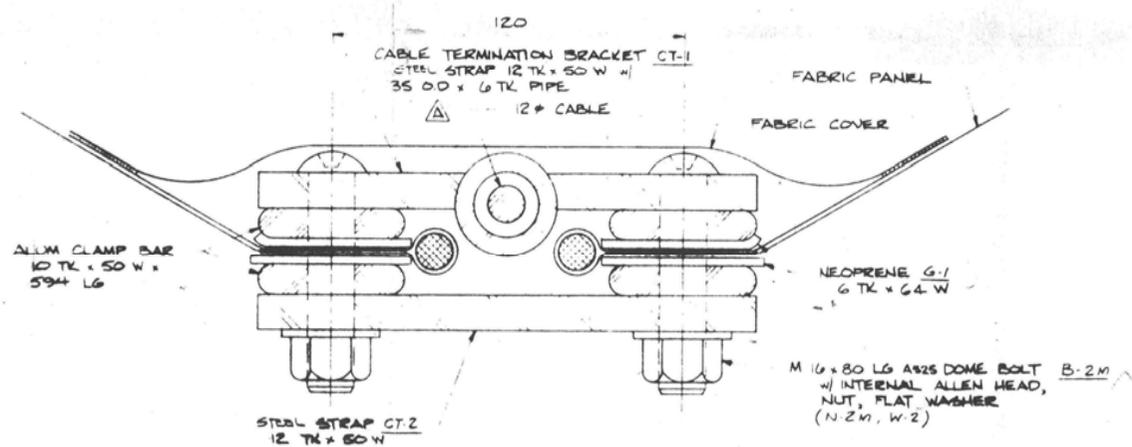


**SECTION P-P**



**SECTION M-M**

**SECTIONALIZING**



**SECTION J-J**

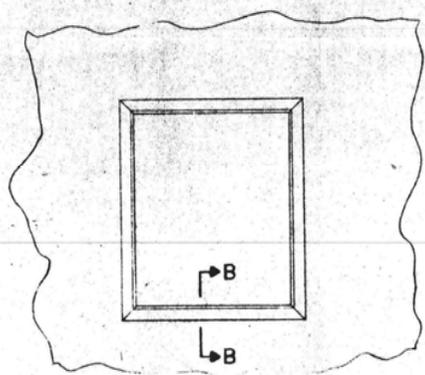
**12 CABLE TERMINATION BRACKET**

IMMOBILE: <b>STADIO OLIMPICO</b>		<p>Tribuna M.Mario Curva Sud Curva Nord Tribuna Tevere</p>
SPECIFICA: <b>COBERTURA SECTIONS</b>		
TAVOLA N. <b>C. ST. 2005</b>	DATA: Novembre 2004 SCALA: <b>1:1</b>	<p><b>Italia Coni Servizi</b></p>
PROGETTO: Ing. Lucio Scoretta		

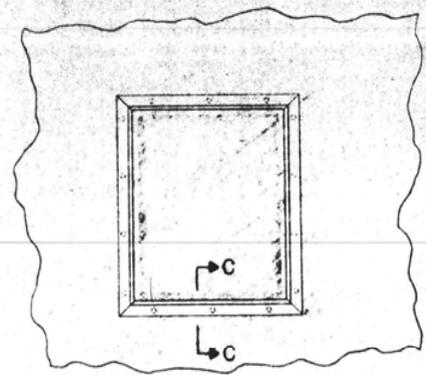
E  
A  
RE  
DR  
CH  
EN  
AP  
SC



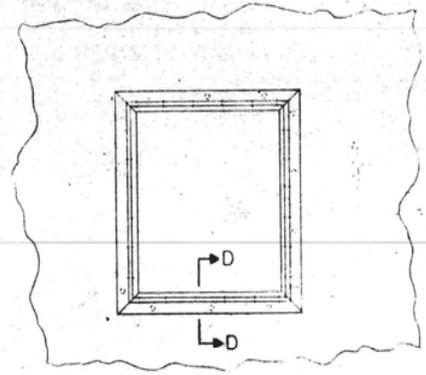
MARK NO.	QTY	DESCRIPTION	MATERIAL
	REQD		



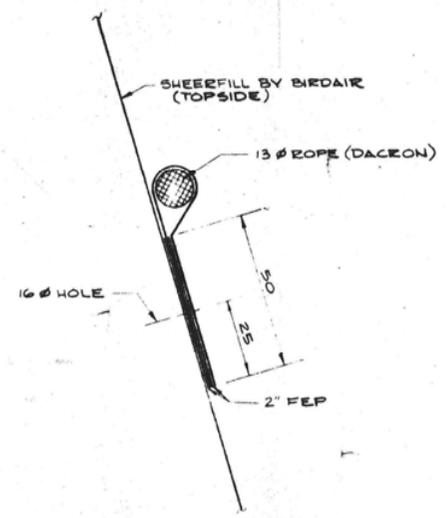
**STEP 1**  
SEAL FABRIC EDGED EDGES WITH FIELD HEAT TACKLER.



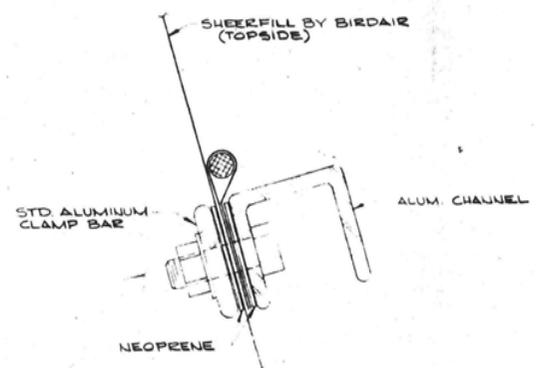
**STEP 2**  
BOLT FRAME ONTO FABRIC.



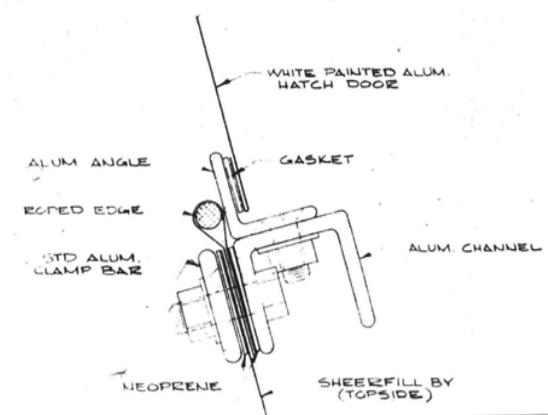
**STEP 3**  
CUT OUT FABRIC AND INSTALL HATCH DOOR.



**SECTION B-B**



**SECTION C-C**



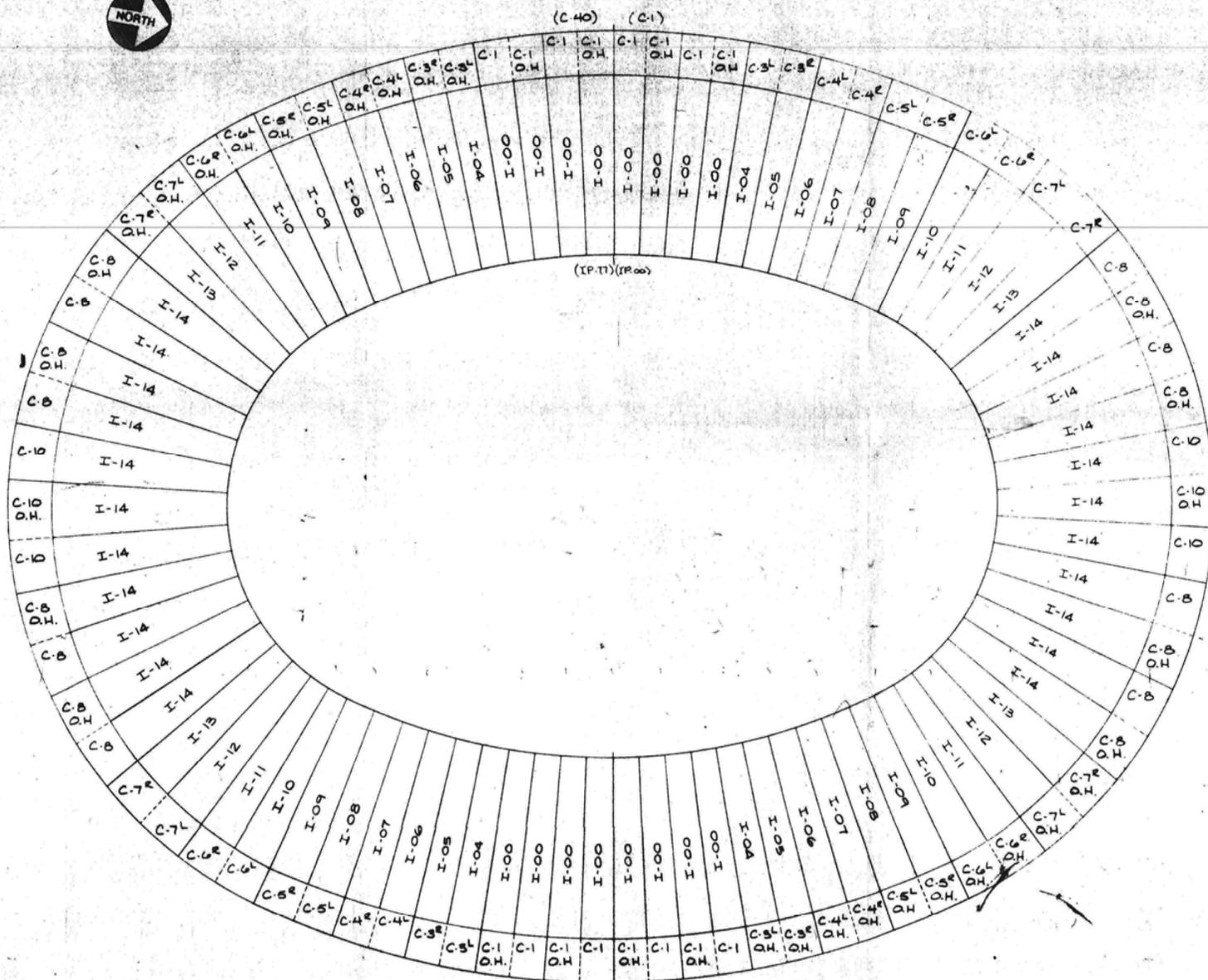
**SECTION D-D**

RE  
DR  
CHI  
ENI  
APF  
SCF

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA INSTALLATION ACCESS HATCHES</b>		
TAVOLA N. <b>C. ST. 2007</b>	DATA: Novembre 2004 SCALA: <b>VAQ.UE</b>	
PROGETTO: Ing. Lucio Scarelli		

**BILL OF MATERIAL**

MARK NO.	QTY	DESCRIPTION	MATERIAL
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**NOTES:**

1. ALL MODELS "AS SHOWN" UNLESS NOTED WHICH MEANS "OPPOSITE HAND".

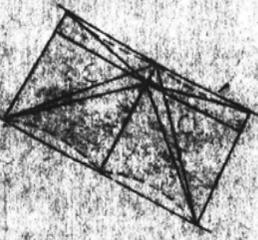
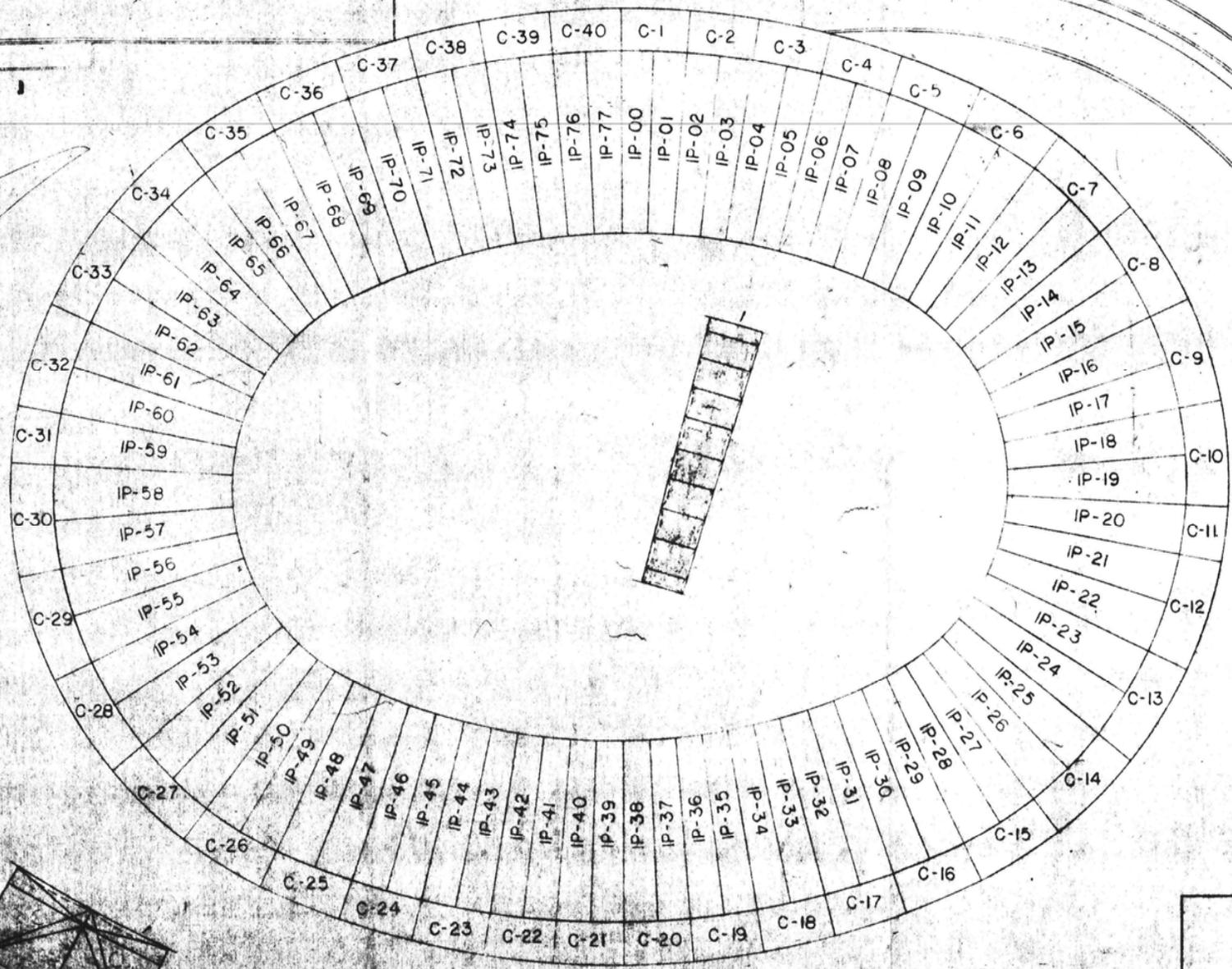
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COBERTURA</b> MODEL LOCATIONS		
TAVOLA N. <b>C. ST.</b> <b>2100</b>	DATA: Novembre 2004 SCALA: <b>VARIE</b> PROGETTO: Ing. Lucio Scrovetti	



START  
INSTALLATION

VIA DELLA PALLACANESTRO

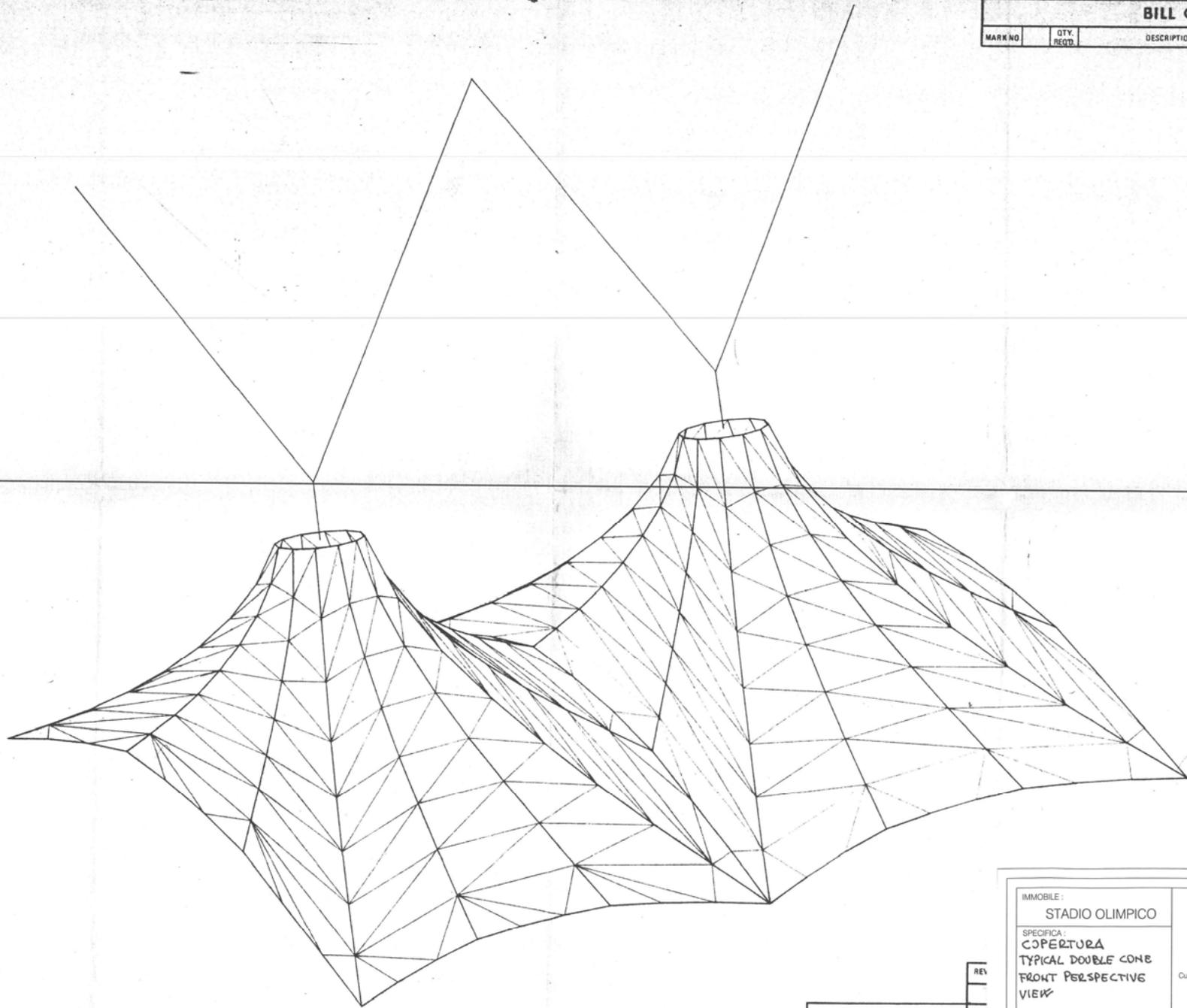
VIA OLIMPICA



IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA CONE AND INNER PANEL ARRANGEMENT</b>		
TAVOLA N. <b>C. ST. 2200</b>	DATA: Novembre 2004 SCALA: <b>1:600</b>	
PROGETTO: Ing. Lucio Scorretti		

**BILL OF MATERIAL**

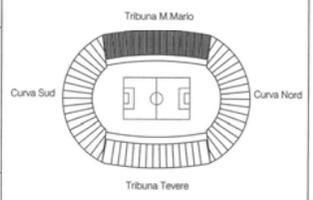
MARK NO	QTY. RECD.	DESCRIPTION	MATERIAL	REF. DWG.



REV  
DRA  
CHE  
ENB  
APP  
SCAL

IMMOBILE:  
**STADIO OLIMPICO**  
SPECIFICA:  
**COBERTURA  
TYPICAL DOUBLE CONE  
FRONT PERSPECTIVE  
VIEW**

TAVOLA N.  
**C. ST.  
2300**  
DATA:  
Novembre 2004  
SCALA:  
**VARIE**  
PROGETTO:  
Ing. Lucio Scoretelli

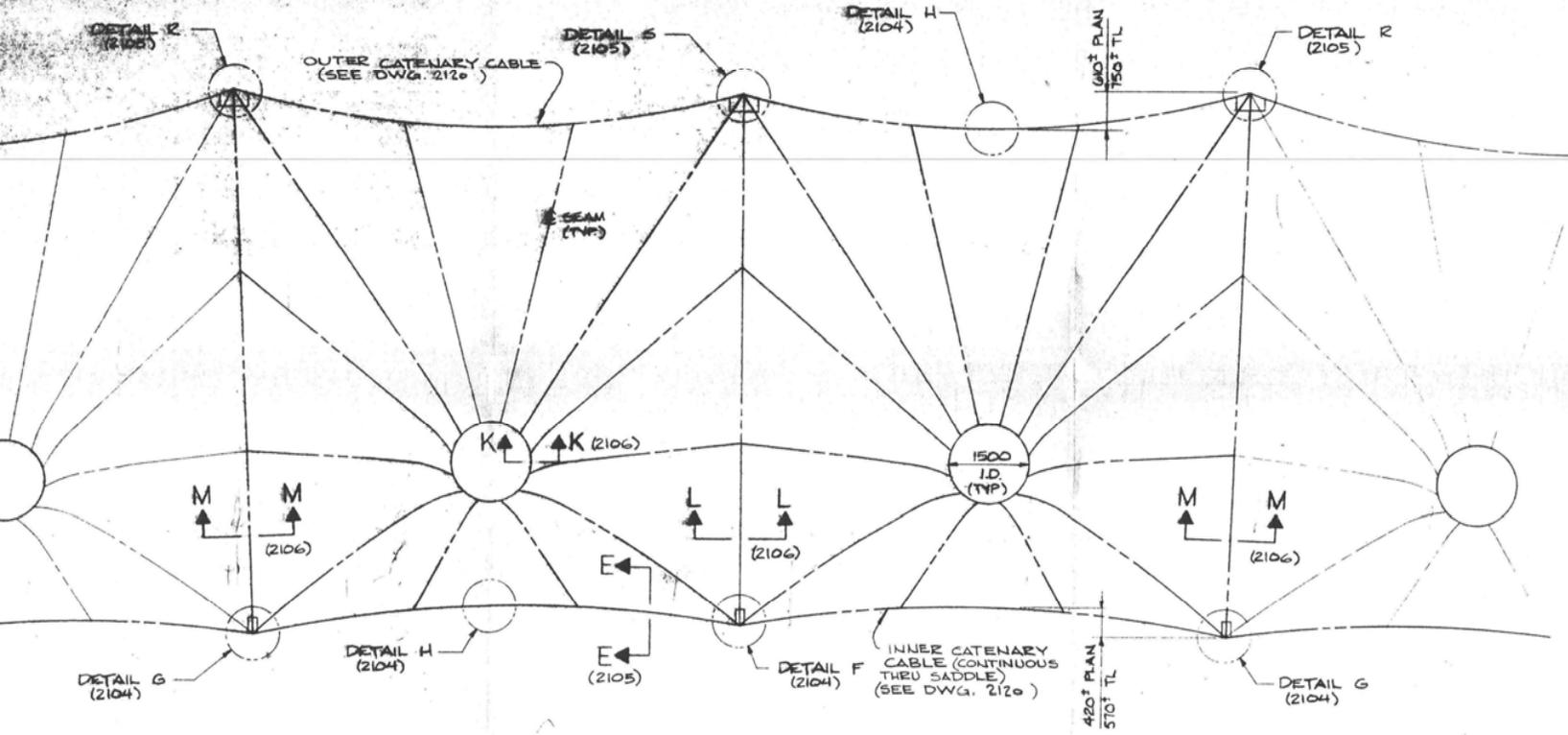


**Italia**  
**Coni Servizi**

OUTSIDE STADIUM

BILL OF MATERIAL

MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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- WORK THIS DRAWING WITH :
- 2000 CONE & PANEL ARRANGEMENT
  - 2102 DOUBLE CONE INSTALLATION ELEVATIONS
  - 2104 INSTALLATION DETAILS
  - 2105 INSTALLATION DETAILS
  - 2106 INSTALLATION SECTIONS
  - 2110 SECTIONALIZE CLAMPING - CONE INSTALLATION
  - 2111 CLAMPING MISC. - CONES INSTALLATION
  - 2112 CABLE ARRANGEMENT - CONES INSTALLATION

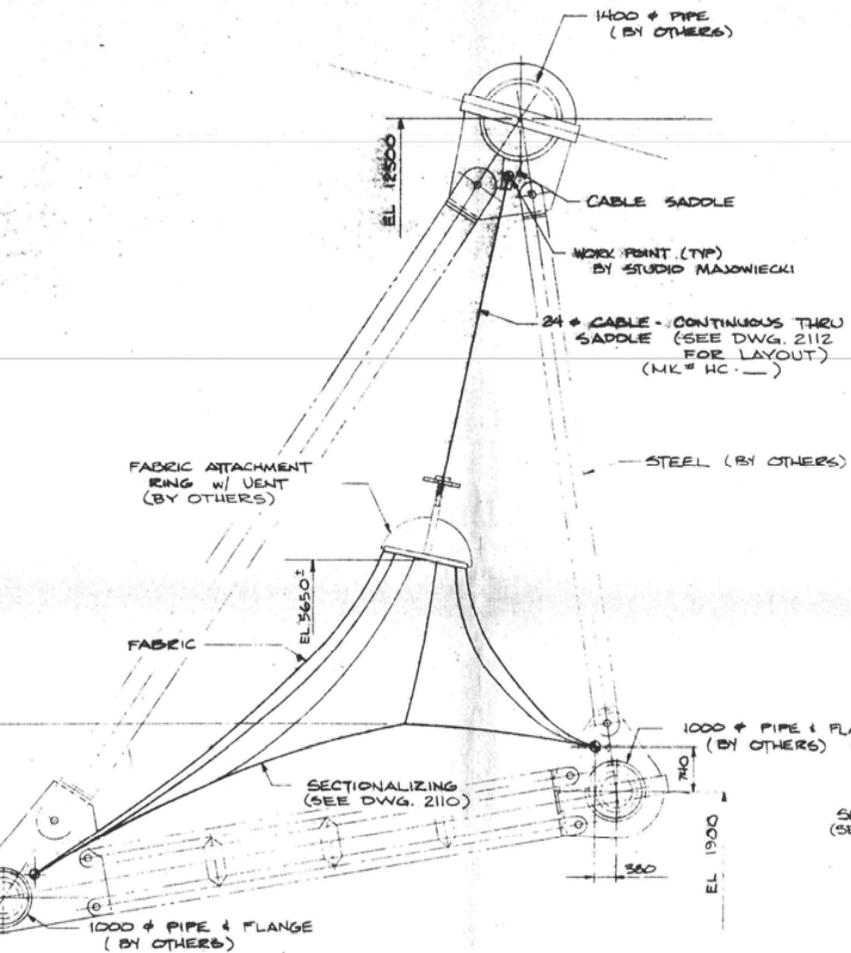
TYPICAL DOUBLE CONE  
PLAN

IMMOBILE: STADIO OLIMPICO		
SPECIFICA: COBERTURA DOUBLE CONE INSTALLATION KEY		
TAVOLA N. C. S.T. 2301	DATA: Novembre 2004 SCALA: 1:50 PROGETTO: Ing. Lucio Scorettili	

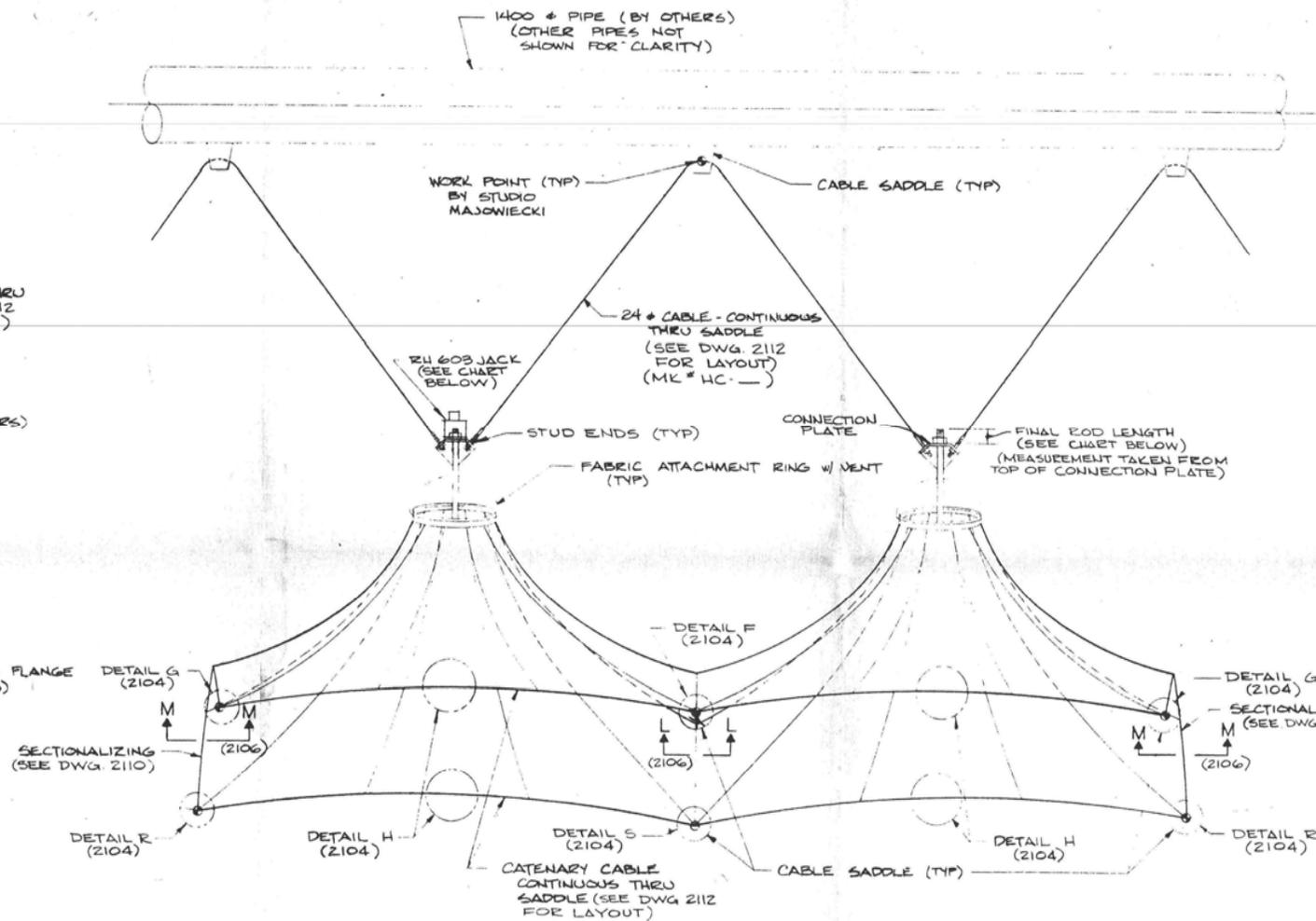
R  
D  
C  
E  
A  
S

**BILL OF MATERIAL**

MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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SIDE ELEVATION



FRONT ELEVATION

* LOAD	JACK PRESSURE RH603 ONLY	FINAL EOD LENGTH
13,500LB	1,020 PSI	750

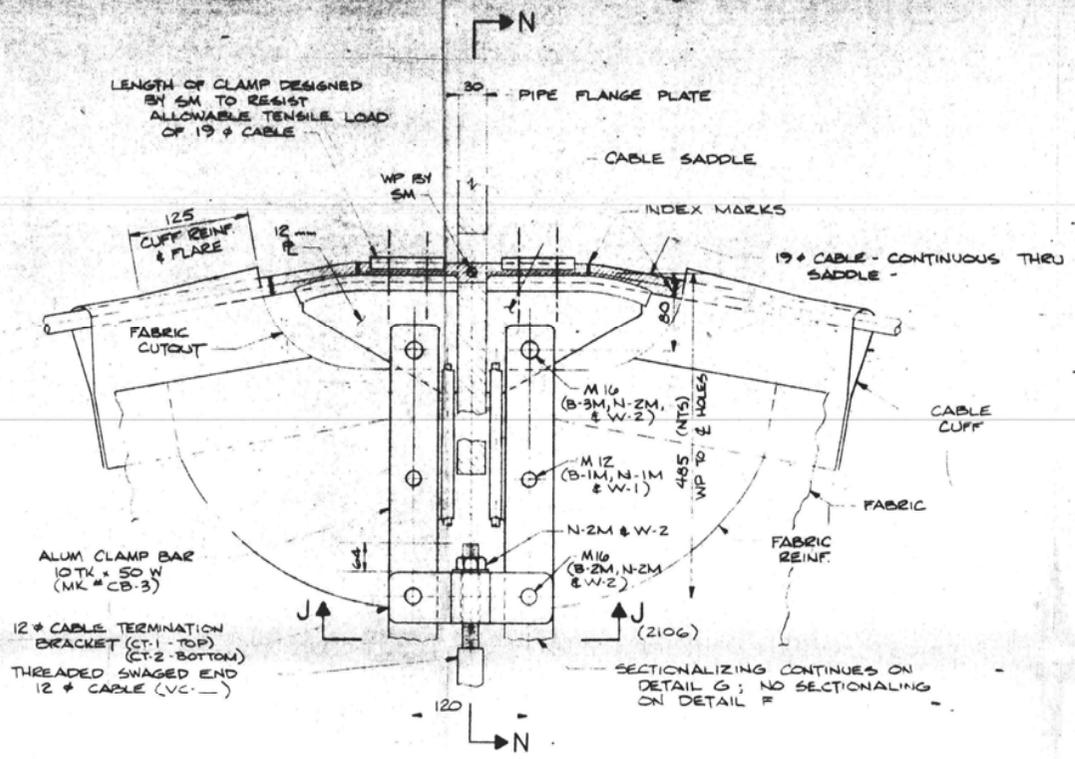
\* THESE FIGURES ARE TYPICAL FOR ALL CONES.

IMMOBILE: <b>STADIO OLIMPICO</b>		<p>Tribuna M. Mario</p> <p>Curva Sud</p> <p>Curva Nord</p> <p>Tribuna Tevere</p>
SPECIFICA: <b>COBERTURA DOUBLE CONE INSTALLATION ELEVATIONS</b>		
TAVOLAN. <b>C. ST. 2302</b>	DATA: Novembre 2004 SCALA: <b>1:50</b>	<p><b>Coni Servizi</b></p>
PROGETTO: Ing. Lucio Scortelli		

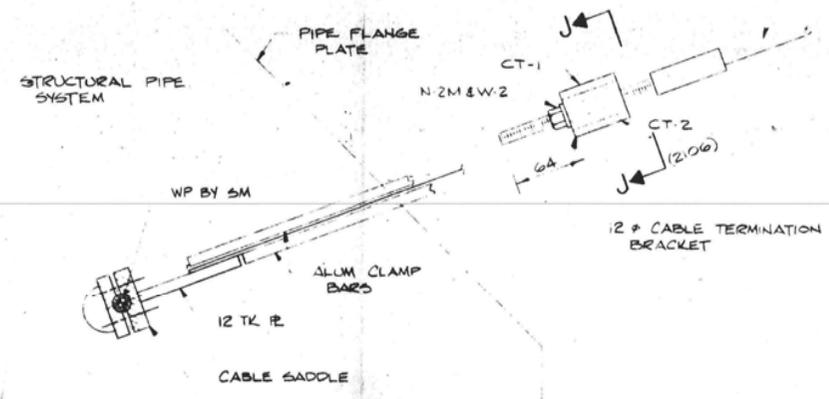
R  
DI  
CI  
EP  
AI  
SC

**BILL OF MATERIAL**

MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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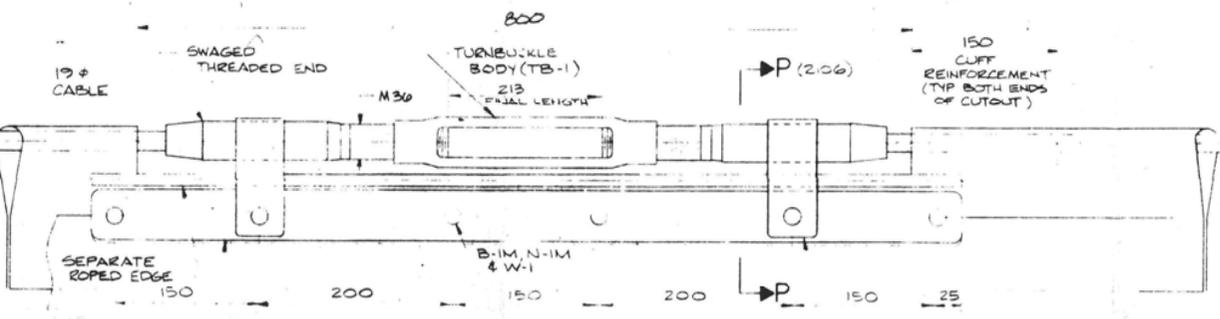


DETAIL G AS SHOWN  
 DETAIL F SIMILAR  
 CABLE SADDLE



SECTION N-N  
 CABLE SADDLE

WORK THIS DRAWING WITH DWG. 2111 FOR HARDWARE INSTALLATION.



DETAIL H  
 CABLE TERMINATION

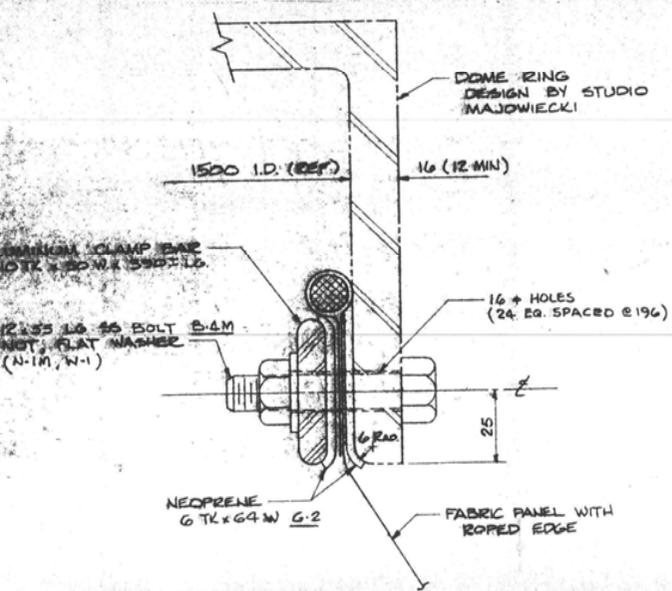
ALUM CLAMP BAR  
 10 TK x 50 W x 300 LG  
 (MK # CB-8)

ALUM J STRAP  
 3 TK x 50 W  
 (MK # S-3)

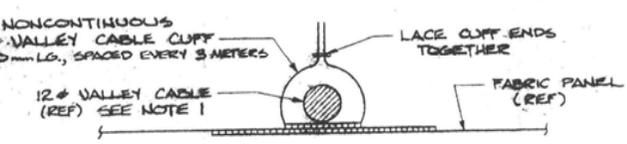
IMMOBILE: <b>STADIO OLIMPICO</b>		<p>Tribuna M. Mario                  Curva Sud                  Curva Nord                  Tribuna Tevere</p>
SPECIFICA: <b>COPERTURA                  INSTALLATION DETAILS</b>		
TAVOLA N. <b>C. ST.                  2304</b>	DATA: Novembre 2004 SCALA: <b>1:3</b> PROGETTO: Ing. Lucio Scorretti	<p><b>Coni Servizi</b></p>



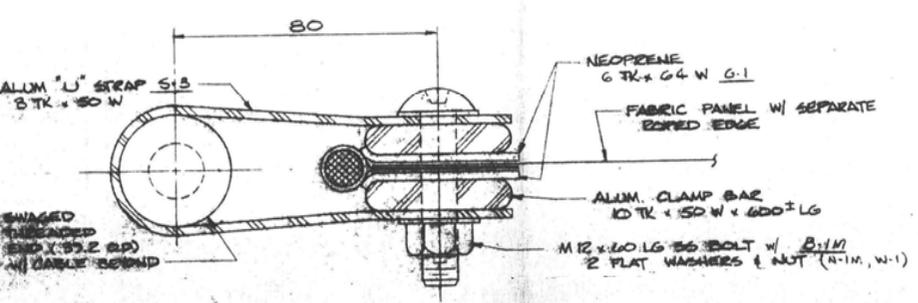
MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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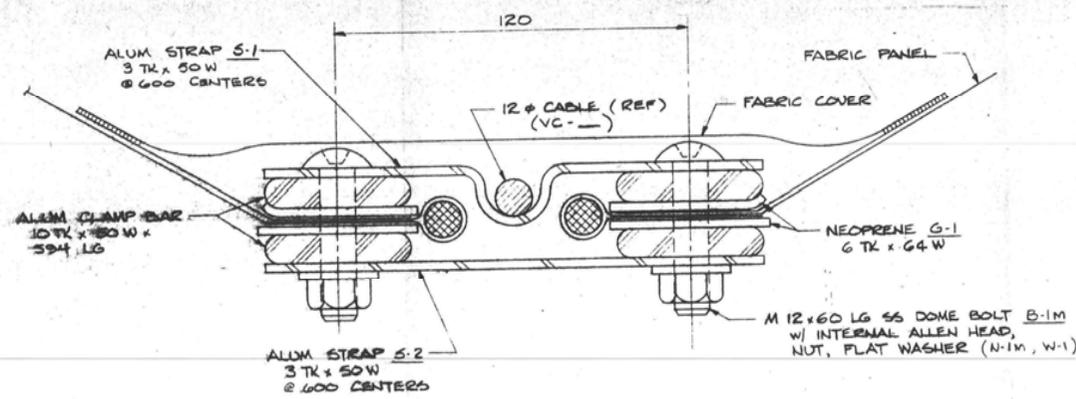
SECTION K-K  
FABRIC ATTACHMENT @ DOME RING



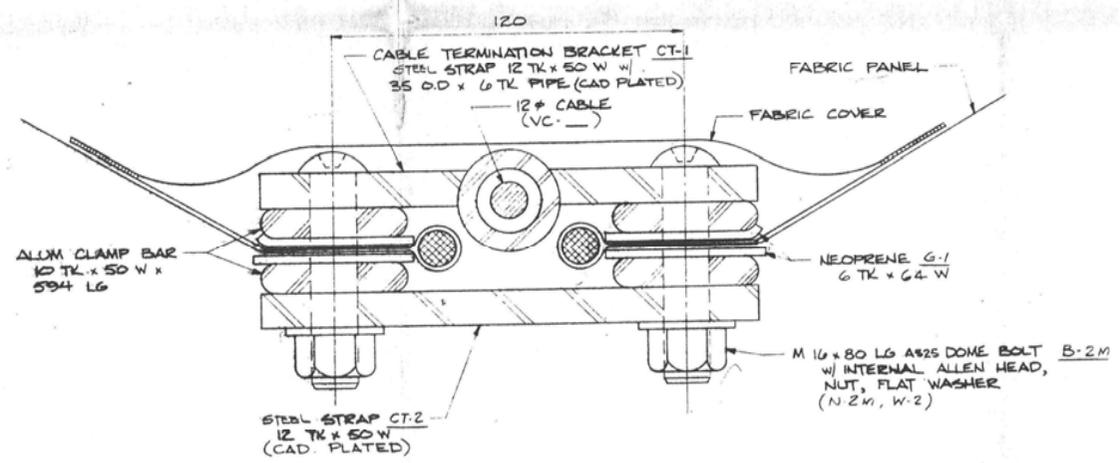
SECTION L-L  
VALLEY CABLE



SECTION P-P  
STRAP AT TURNBUCKLE  
(SEE SHEET 2104)



SECTION M-M (2101/2102)  
SECTIONALIZING  
(SEE SHEET 2110)



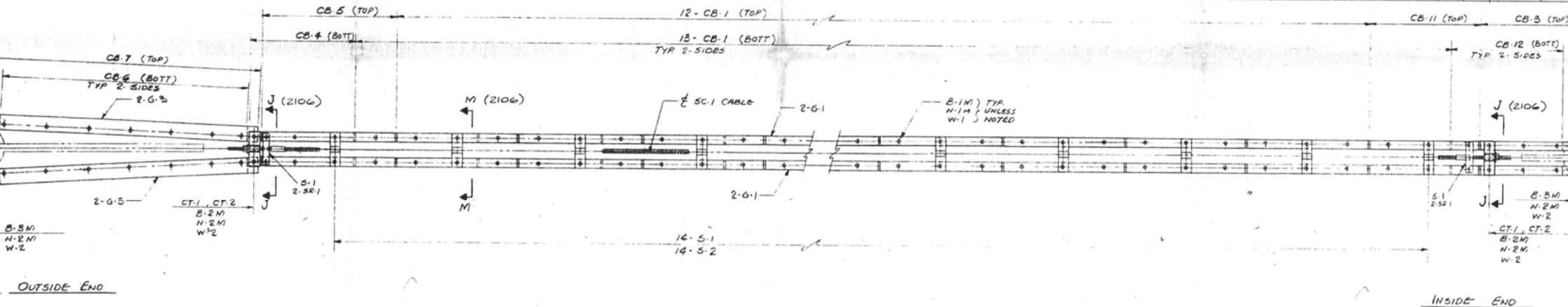
SECTION J-J  
12 # CABLE TERMINATION BRACKET

IMMOBILE: STADIO OLIMPICO		
SPECIFICA: COPERTURA INSTALLATION SECTIONS		
TAVOLA N. C.S.T. 2306	DATA: Novembre 2004 SCALA: 1:1 PROGETTO: Ing. Lucio Scorettili	

RI  
DI  
CA  
EN  
AP  
SC

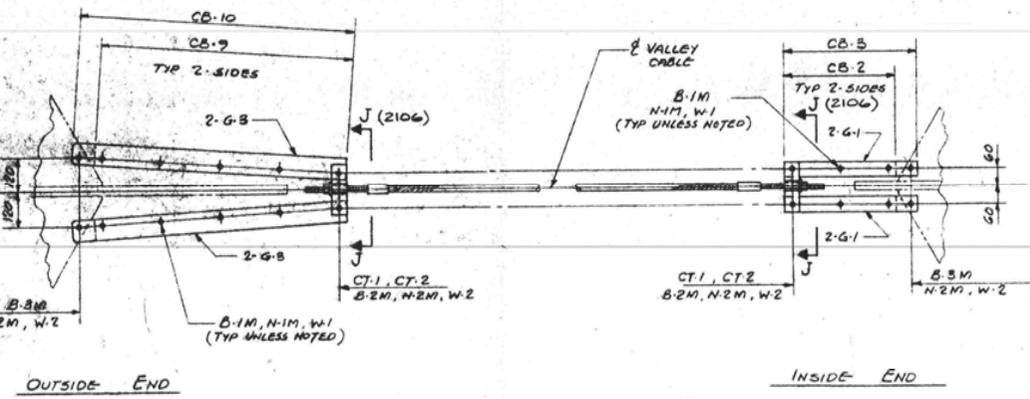
### BILL OF MATERIAL

MARK NO.	QTY. UNIT	QTY. REQD.	DESCRIPTION	MATERIAL
CB 1	50	2000	CLAMP BAR	ALUM
CB 3	2	80		
CB 4	2	80		
CB 5	2	80		
CB 6	2	80		
CB 7	2	80		
CB 11	2	80		
CB 12	2	80	CLAMP BAR	ALUM
SR 1	4	160	SHT METAL SCREWS 6 x 10 LG.	
CT 1	2	80	CABLE TERMINATION BRACKET	STL
CT 2	2	80		
S-1	16	640	STRAP	ALUM
S-2	14	560		
B-1M	102	4080	DOME BOLT M12 x 60	SS
B-2M	4	160	M16 x 80	A325
B-3M	4	160	M16 x 50	A325
N-1M	102	4080	HEX NUT M12	SS
N-2M	8	320	M16	A563
W-1	102	4080	WASHER M12	SS
W-2	8	320	M16	F436
G-1		1440	GASKET 6 x 64	NEOPRENE
G-3		208,0	GASKET 6 x 90	

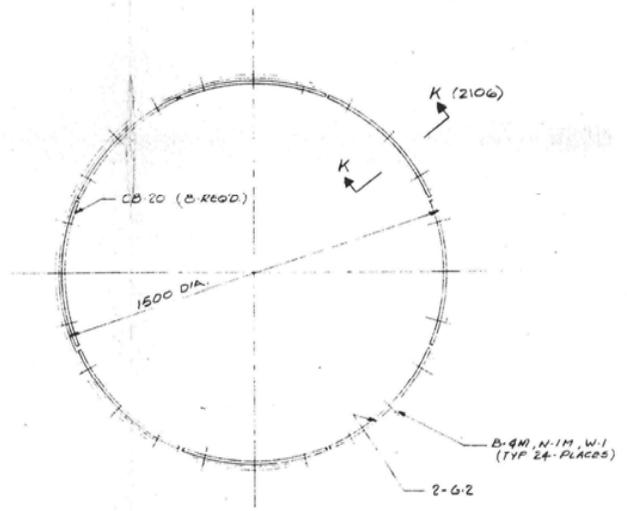


SECTIONALIZE CLAMPING  
TYPICAL 40-PLACES

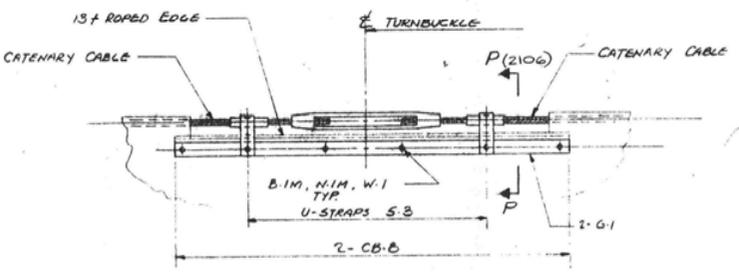
IMMOBILE: STADIO OLIMPICO		
SPECIFICA: COPERTURA SECTIONALIZE CLAMPING- CONES INSTALLATION (TYP. 40 LOCATIONS)		
TAVOLA N. C. ST. 2340	DATA: Novembre 2004 SCALA: 1:10	
PROGETTO: Ing. Lucio Scorelli		



**VALLEY CABLE CLAMPING**  
TYP 38-PLACES



**CLAMPING @ DOME RING**  
TYP 78-PLACES



**CLAMPING @ TURNBUCKLE**  
TYP 156-PLACES

BILL OF MATERIAL				
MARK NO.	QTY/UNIT	QTY. REQD.	DESCRIPTION	MATERIAL
<b>VALLEY CABLE CLAMPING</b>				
CB-2	2	76	CLAMP BAR	ALUM
CB-3	2	76		
CB-9	2	76		
CB-10	2	76	CLAMP BAR	
CT-1	2	76	CABLE TERMINATION BRACKET	STL
CT-2	2	76		
B-1M	12	456	DOME BOLT 12M x 60	SS
B-2M	4	152	16M x 80	A825
B-3M	4	152	16M x 50	A825
N-1M	12	456	HEX NUT 12M	SS
N-2M	8	304	16M	A563
W-1	12	456	WASHER 12M	SS
W-2	8	304	16M	F456
G-1		76.0	GASKET 6 x 64	NEOPRENE
G-3		156.8	GASKET 6 x 90	
<b>CLAMPING @ TURNBUCKLE</b>				
CB-8	2	312	CLAMP BAR	ALUM
S-3	2	312	U-STRAP	
B-1M	6	936	DOME BOLT 12M x 60	SS
N-1M	6	936	HEX NUT 12M	
W-1	12	1672	WASHER 12M	
G-1		280.8	GASKET 6 x 64	NEOPRENE
<b>CLAMPING @ DOME RING</b>				
CB-20	8	624	CLAMP BAR	ALUM
B-4M	24	1872	BOLTS 12M	SS
N-1M	24	1872	HEX NUT 12M	
W-1	24	1872	WASHER 12M	
G-2		755.2	GASKET 6 x 64	NEOPRENE

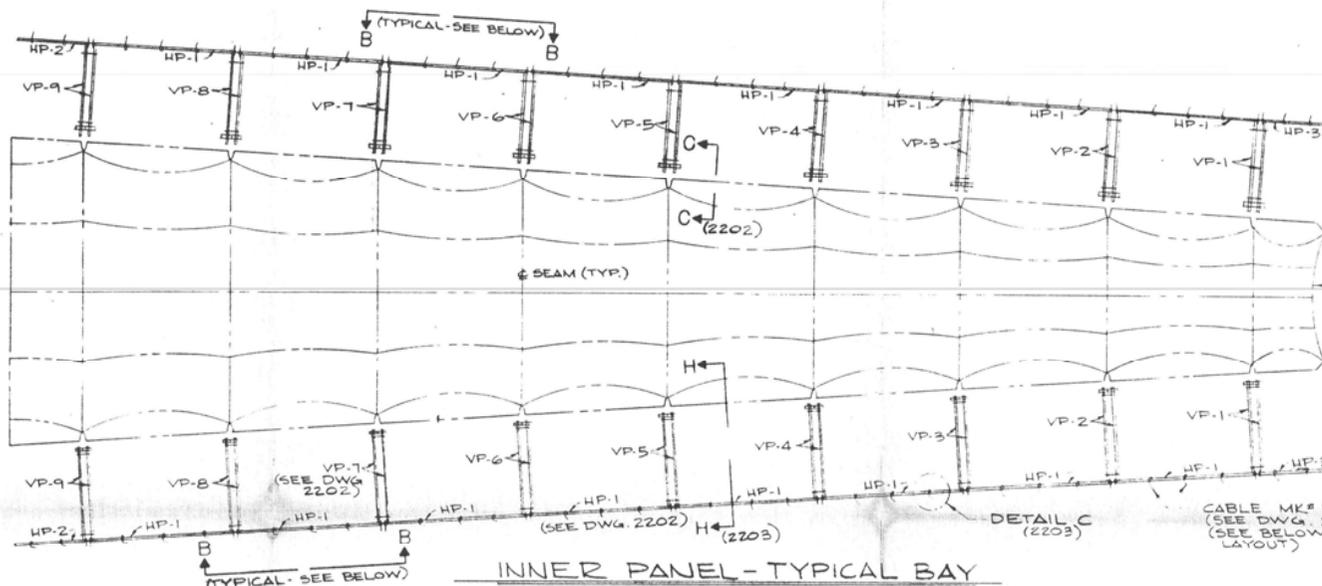
IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA CLAMPING MISC. - CONES INSTALLATION</b>		
TAVOLA N. <b>C. ST. 0311</b>	DATA: Novembre 2004 SCALA: <b>VARIE</b> PROGETTO: Ing. Lucio Scorretti	



**BILL OF MATERIAL**

MARK NO	QTY	DESCRIPTION	MATERIAL
	REQD		

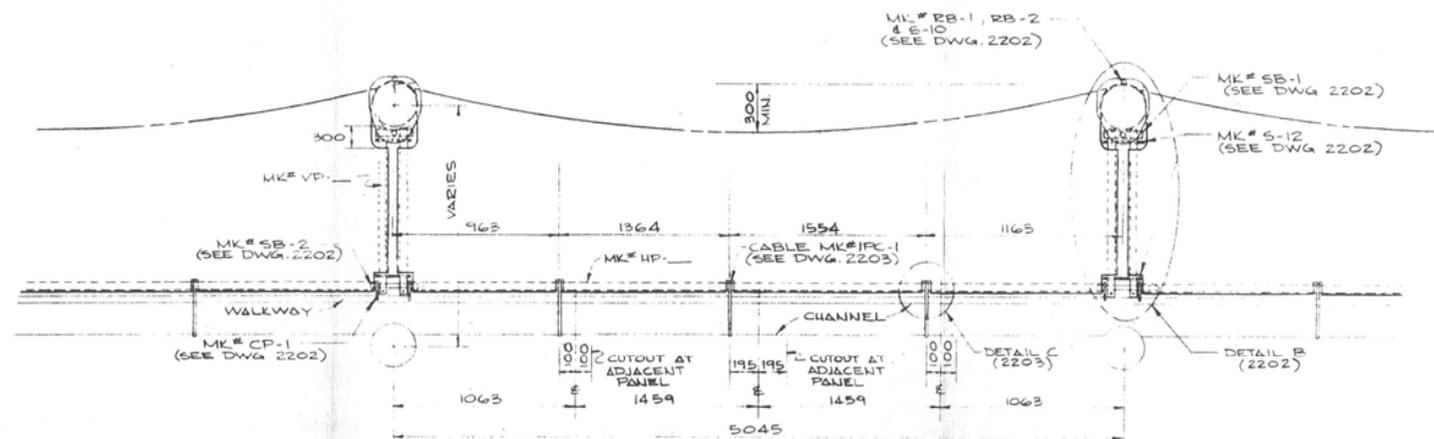
JECTOR PIPE (CP-1) (SEE DWG. 2201 FOR LAYOUT)  
 SLEEVE (TYP) (PS-1)  
 BLE (IPC-2)



CATENARY CABLE (MK# IC-1) (SEE DWG. 2201 FOR CABLE LAYOUT)

WORK THIS DRAWING WITH:  
 2201 INNER PANEL CP-1 & IC-1 ARRANGEMENT  
 2202 INSTALLATION DETAILS  
 2203 DETAILS & SECTIONS - INSTALLATION

**INNER PANEL - TYPICAL BAY**  
 PLAN VIEW  
 1:100

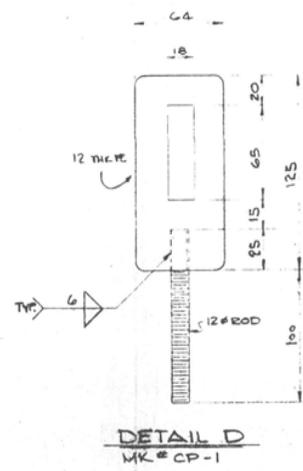
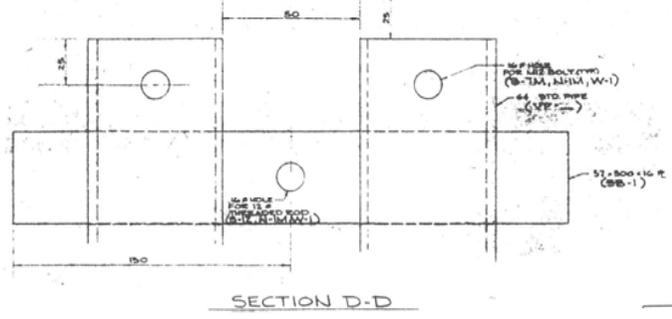
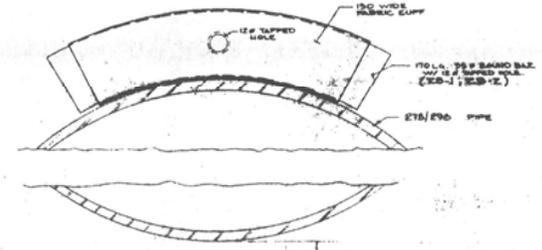
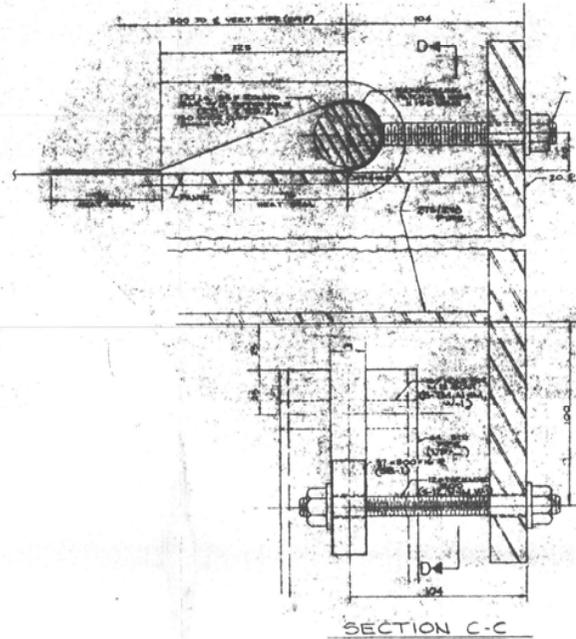
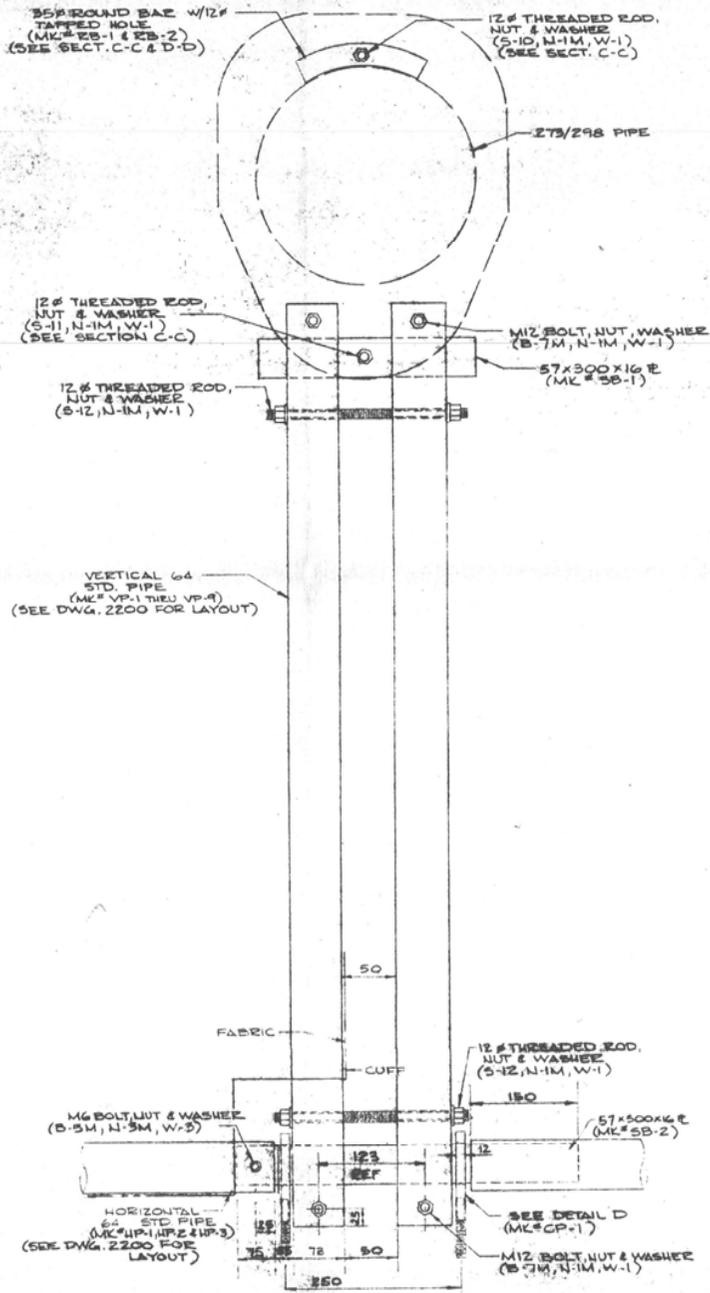


**SECTION B-B**  
 INNER PANEL - ELEVATION  
 1:20

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPELTURA INNER PANEL INSTALLATION KEY &amp; ELEVATION</b>		
TAVOLA N. <b>C. ST. 2400</b>	DATA: Novembre 2004 SCALA: <b>VARIE</b> PROGETTO: Ing. Lucio Scorettili	

**BILL OF MATERIAL**

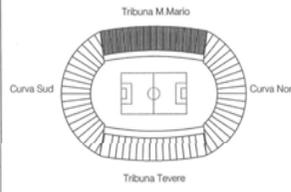
MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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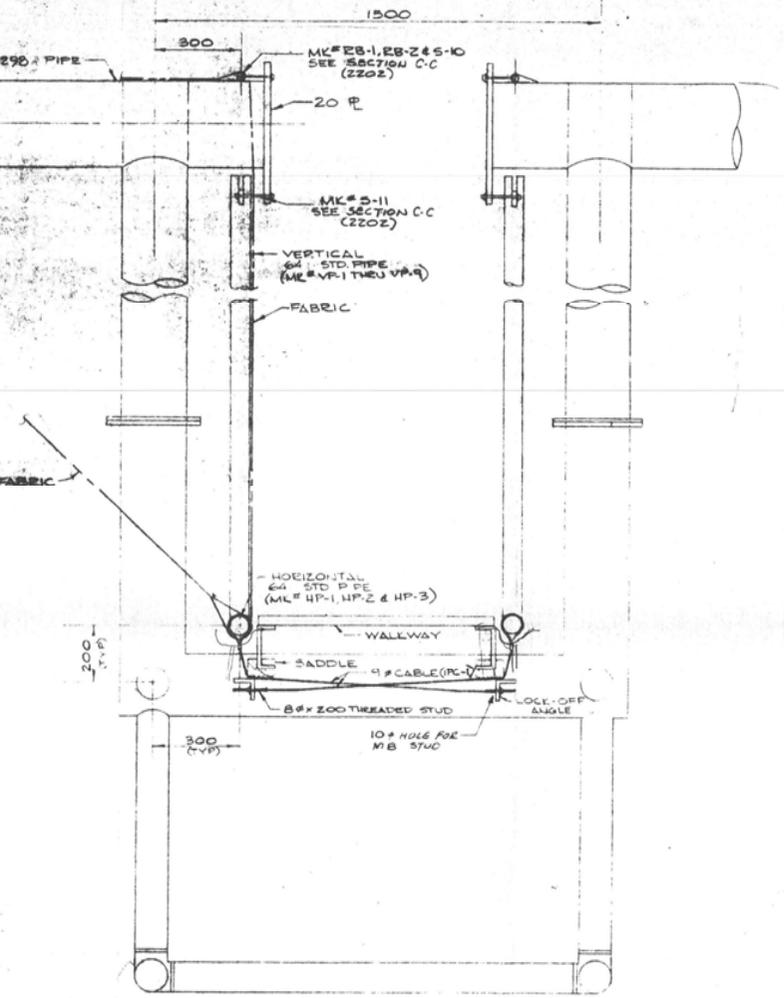
DETAIL B

RE  
DR  
CHI  
ENI  
APV  
SCA

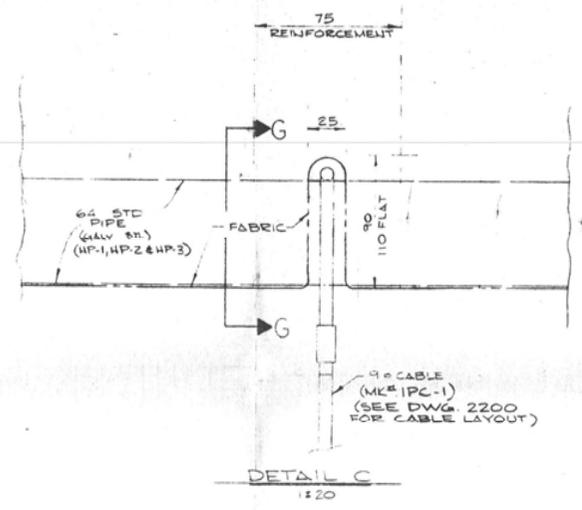
IMMOBILE: STADIO OLIMPICO  
 SPECIFICA: COPERTURA  
 INSTALLATION DETAILS  
 TAVOLA N. C. ST. 2402  
 DATA: Novembre 2004  
 SCALA: VARIE  
 PROGETTO: Ing. Lucio Scortelli



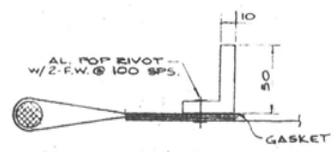
MARK NO.	QTY. REQD.	DESCRIPTION	MATERIAL
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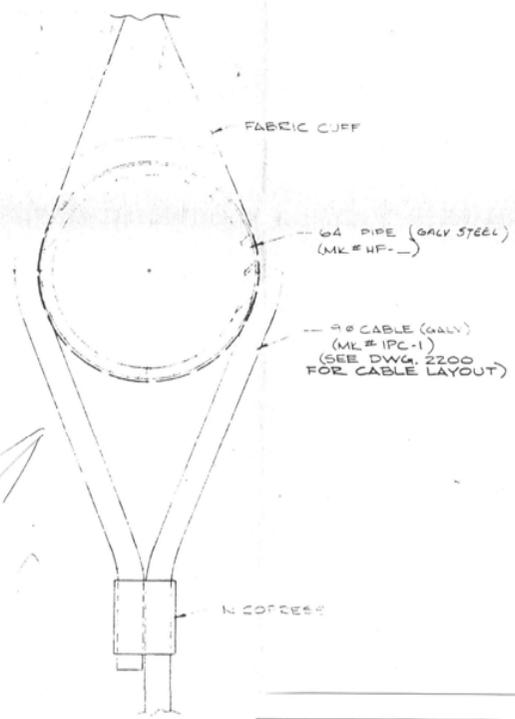
**SECTION H-H**  
1:10



**DETAIL C**  
1:20



**EPDM RAIN DIVERTER**  
(MK# D-1 THRU D-8)



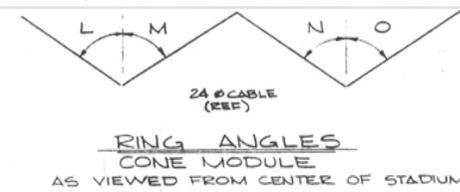
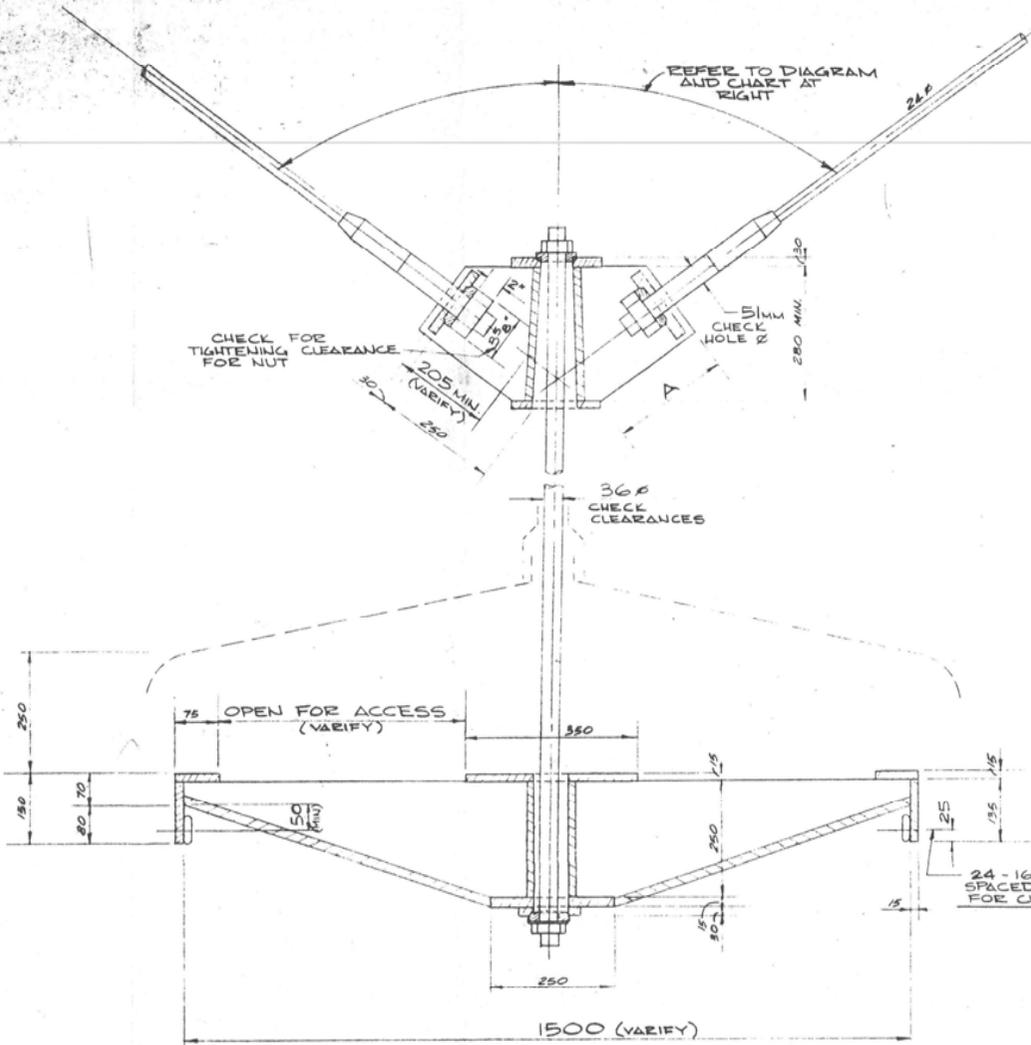
**SECTION G-G**  
1:1

RE  
DR  
CH  
EN  
AP  
SC

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COBERTURA DETAILS E SECTIONS INSTALLATION</b>		
TAVOLA N. <b>C. ST. 2403</b>	DATA: Novembre 2004	<b>Coni Servizi</b>
	SCALA: <b>VARIE</b>	
	PROGETTO: Ing. Lucio Scorettili	

MARK NO	QTY REQD	DESCRIPTION	MATERIAL
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**NOTE:**  
 ALL PLATE SIZES, WELDS, ETC. TO BE CHECKED BY STUDIO MAJOWIECKI. BIEDAIRE TO CHECK FOR INTERFACE ONLY.



RING ANGLES					
CONE ASSY	L	M	N	O	QUANTITY
C-1	53.21	52.25	52.25	53.21	8
C-3	53.81	52.79	53.21	53.95	4
C-4	54.96	53.93	54.87	55.65	4
C-5	56.50	55.53	55.90	56.74	4
C-6	57.99	56.97	58.57	59.21	4
C-7	60.74	59.63	60.92	61.94	4
C-8	62.67	61.79	61.79	62.67	8
C-10	62.67	62.67	62.67	62.67	2-DBL. 2-SGL.

\* REFER TO DWG. 1300 FOR CONE LOCATION

**TENSION RING**

- KEY:**
- 36 DIMENSIONS TO BE CHECKED & VARIIFIED
  - 250 REFERENCE DIMENSIONS (SM DESIGN)
  - A DIMENSIONS REQUIRED

IMMOBILE: <b>STADIO OLIMPICO</b>		
SPECIFICA: <b>COPERTURA FABRIC TENSION RING</b>		
TAVOLA N: <b>C. ST. 2500</b>	DATA: Novembre 2004	
SCALA: <b>VAR.</b>		
PROGETTO: Ing. Lucio Scoretta		