

STEEL STRUCTURES BOOK

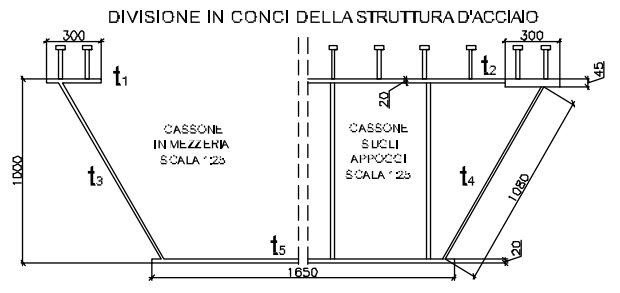
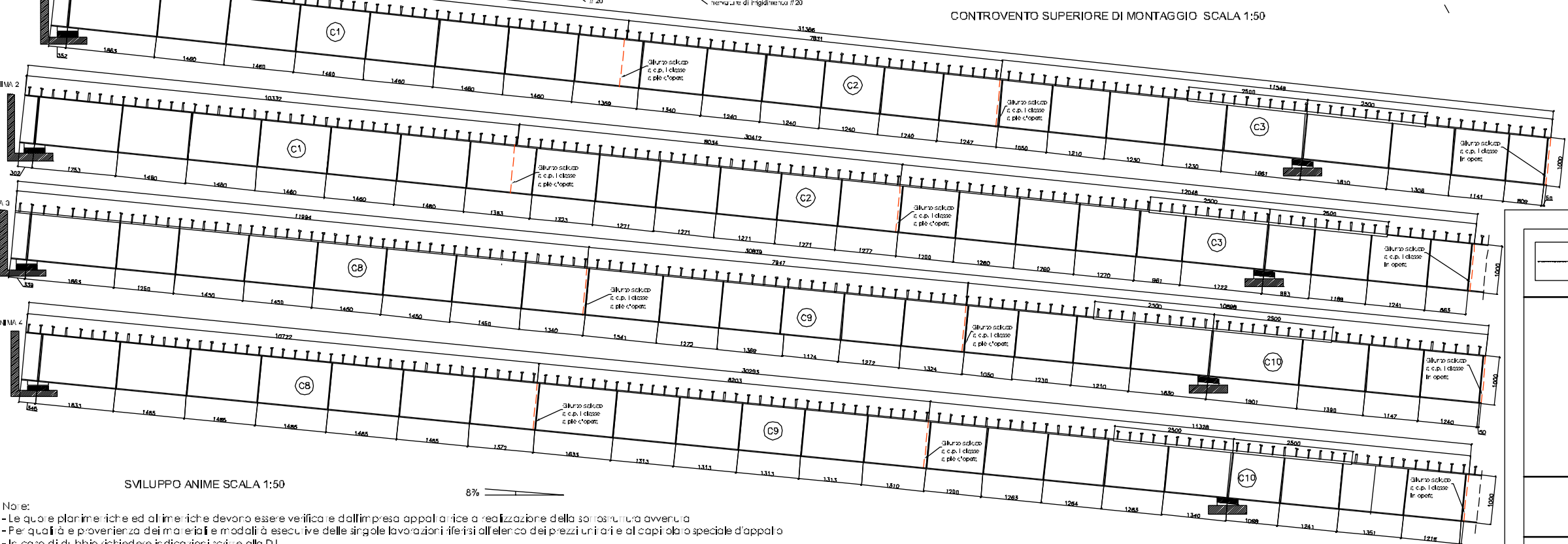
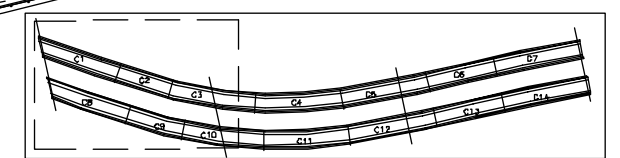
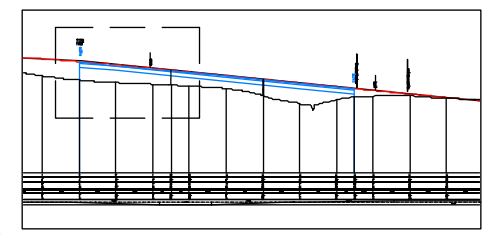
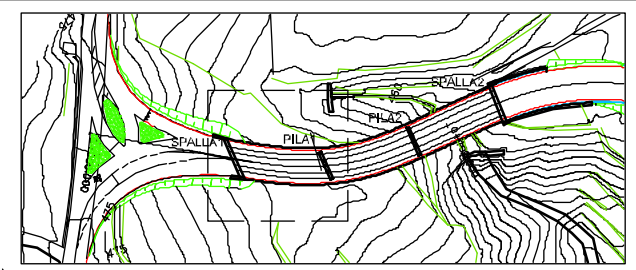
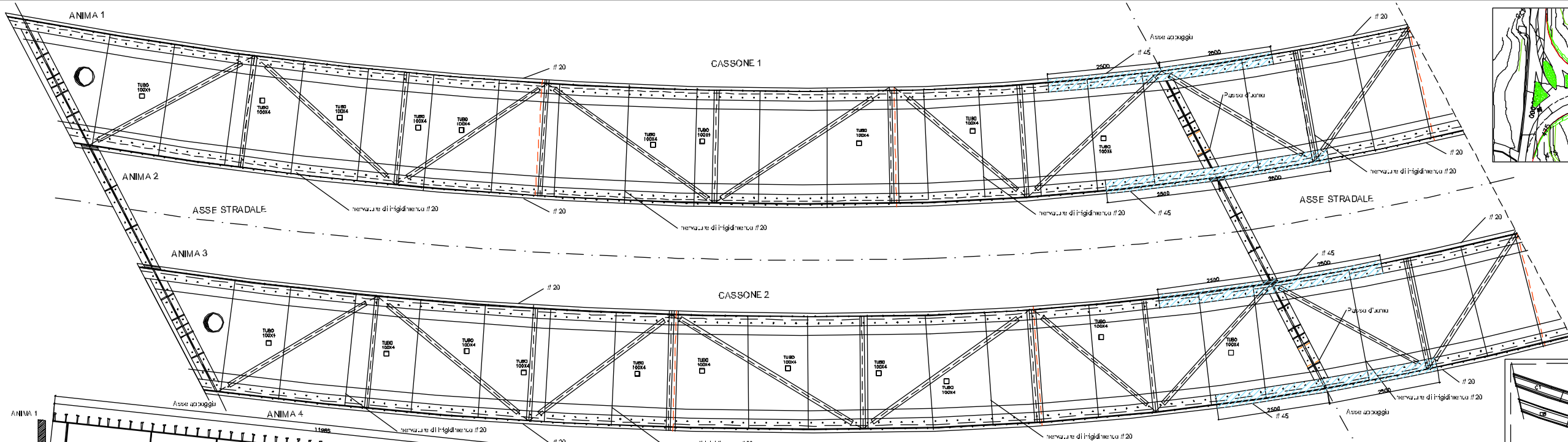


S.R.445 REGIONAL ROAD GARFAGNANA BYPASS TO CAMPORGIANO CITY CENTRE - CAMPORGIANO (LU)

DESCRIPTION: CONSULTING FOR PRELIMINARY, DESIGN DEVELOPMENT AND DETAILED PHASE OF THE NEW BYPASS TO CAMPORGIANO VILLAGE OF S.R. 445 REGIONAL ROAD. PRECAST WALLS AND TWO MULTIPLE SPAN BRIDGES FOR A TOTAL LENGTH OF 155 M, IN THE MUNICIPALITY OF CAMPORGIANO (LU)

CLIENT: SHIRE OF LUCCA - LUCCA, ITALIA

STATUS: BUILT



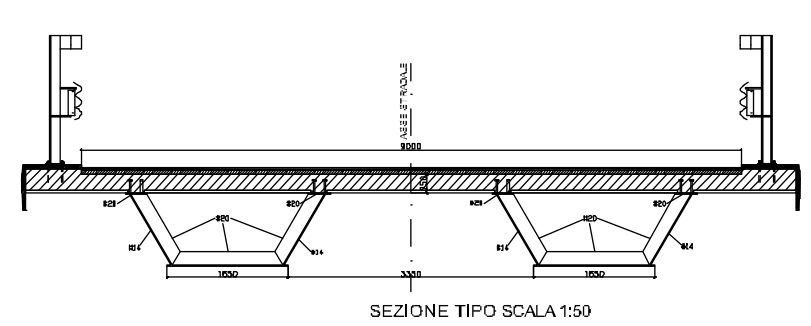
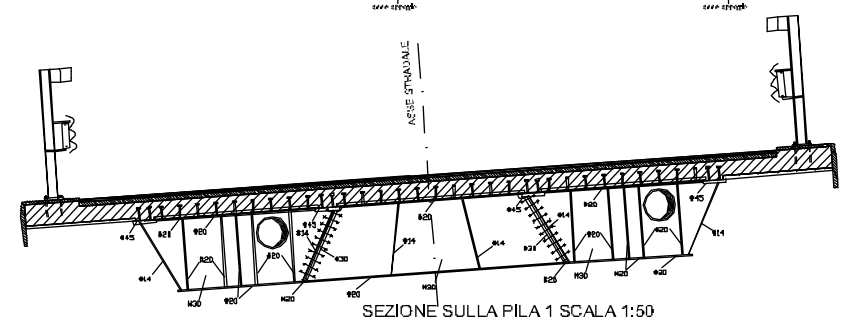
SVILUPPO ANIME SCALA 1:50

8%

Note:
 - Le quote planimetriche ed altimetriche devono essere verificate dall'impresa appaltatrice alla realizzazione della struttura definitiva.
 - Per qualità e provenienza dei materiali e modalità esecutive delle singole lavorazioni riferirsi all'elenco dei prezzi unitari e al capitolo speciale d'appalto.
 - In caso di dubbio richiedere indicazioni scritte alla D.L.

| | C1 | C2 | C3 | C8 | C9 | C10 | MATERIALI | SIMBOLOGIA COLLEGAMENTI |
|---------------|--------|--------|--------|--------|--------|--------|---|--|
| t1 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | Calcestruzzo per maglie classe Fox 130 | C ₁ = 50.0 daN/cm ² ; C ₂ = 4.0 daN/cm ² ; C ₃ = 14.0 daN/cm ² |
| t2 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | Calcestruzzo strutturale per solette classe Fox 350 | C ₁ = 116 daN/cm ² ; C ₂ = 5.57 daN/cm ² ; C ₃ = 19.3 daN/cm ² |
| t3 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | Acciaio In. classe Fe 3.44 e perno. | C ₁ = 2400 daN/cm ² ; C ₂ = 13.5 daN/cm ² ; C ₃ = 1.13 |
| t4 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | 1100x4 | Acciaio per correnti aerea metallurgico tipo Fe 510 C. Autoretro "Cudini" | C ₁ = 2400 daN/cm ² ; C ₂ = 13.5 daN/cm ² ; C ₃ = 1.13 |
| t5 | 660x20 | 660x20 | 660x20 | 660x20 | 660x20 | 660x20 | Altri Fe classe S2 | C ₁ = 3700 daN/cm ² ; C ₂ = 2540 daN/cm ² |
| connettori | | | | | | | Travi di classe 4s | C ₁ = 1500 daN/cm ² ; C ₂ = 1130 daN/cm ² |
| controfreccia | | | | | | | Note: Il coprieme è grata 3cm | |

| CORDONI DI SALDATURA TIPICI VEDERE OVE DIVERGEMENTI SPECIFICATI | | | |
|--|----------|----------|----------|
| FORI PER BULLONI STANDARD | | | |
| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO |
| M10 | Ø 11 | Ø 11.5 | Ø 12 |
| M12 | Ø 13 | Ø 13.5 | Ø 14 |
| M14 | Ø 15 | Ø 15.5 | Ø 16 |
| M16 | Ø 17 | Ø 17.5 | Ø 18 |
| M18 | Ø 19 | Ø 19.5 | Ø 20 |



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 http://www.provincia.lucca.it - e-mail: utip@provincia.lucca.it

S.R. n° 445 "della Garfagnana"
 VARIANTE ALL'ABITATO DI CAMPOGGIANO

PROGETTO ESECUTIVO

PROGETTO VIADOTTO 1 SU FOSSO CALCINAIA

Oggetto
 COMPOSIZIONE DELLA TRAVATA - CAMPATA 1

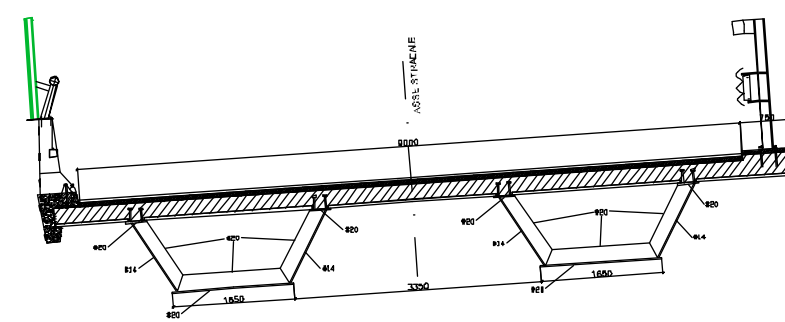
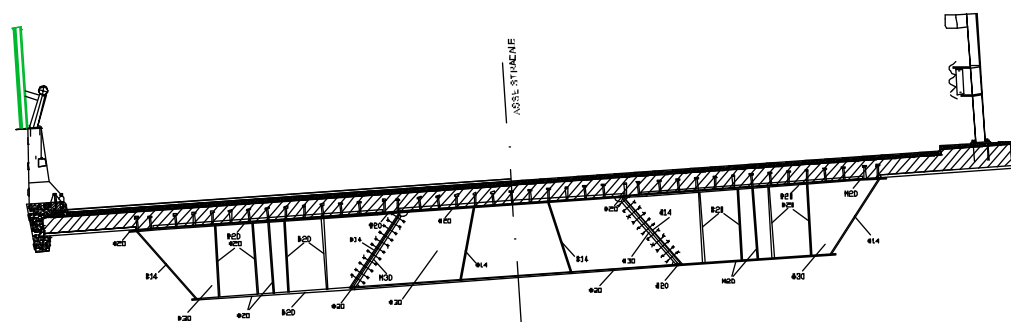
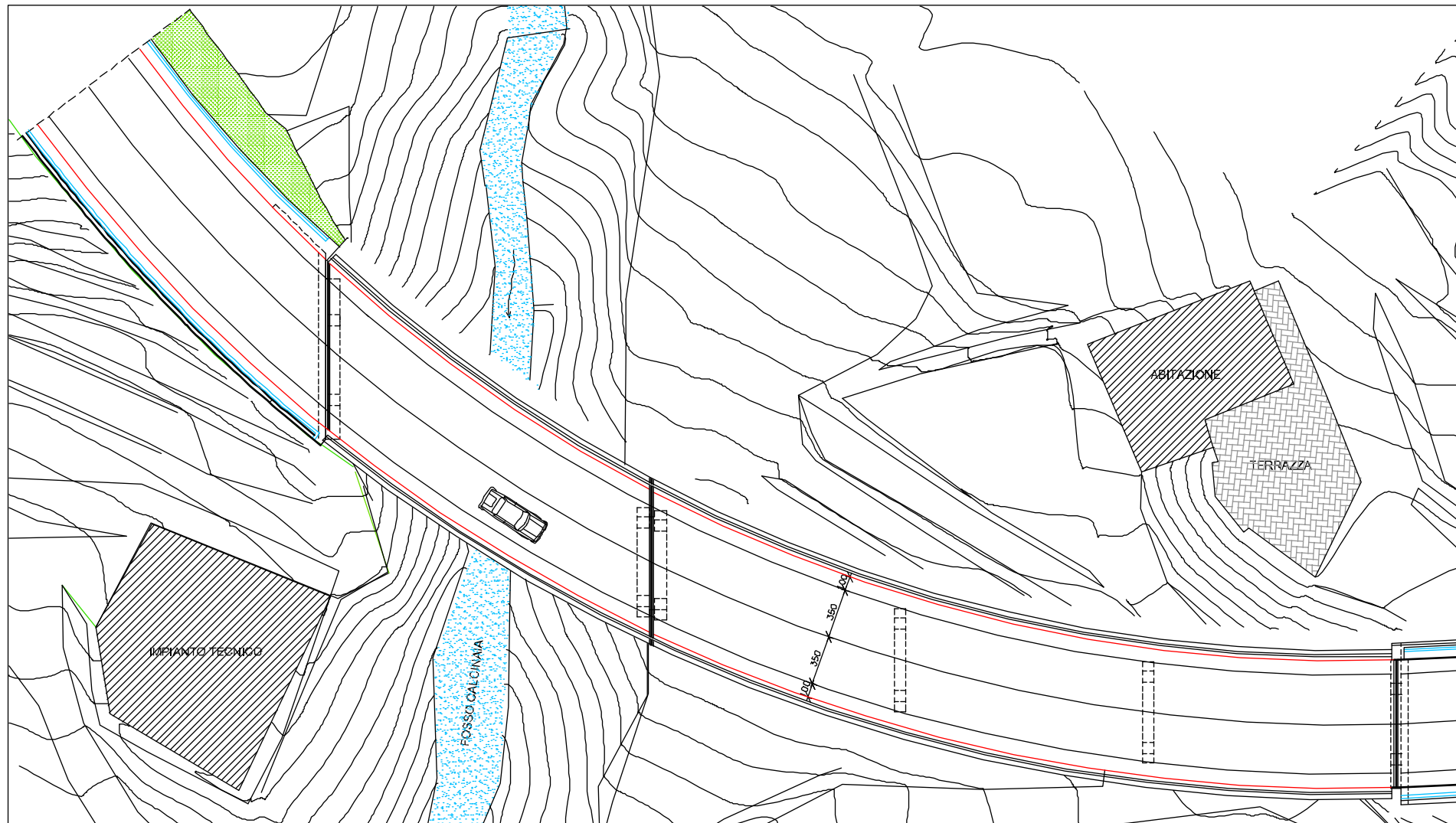
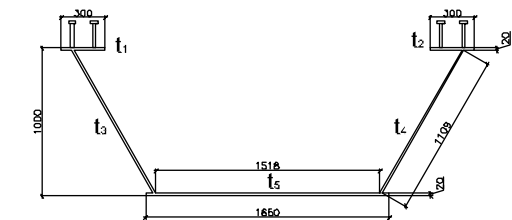
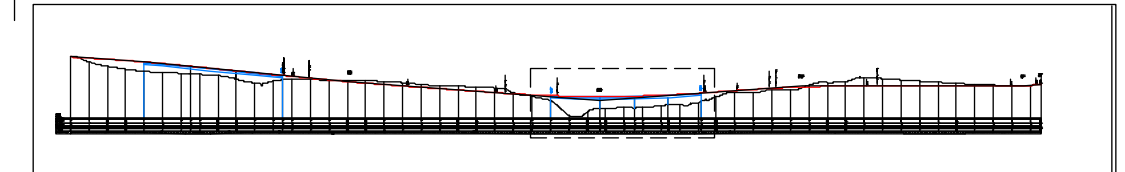
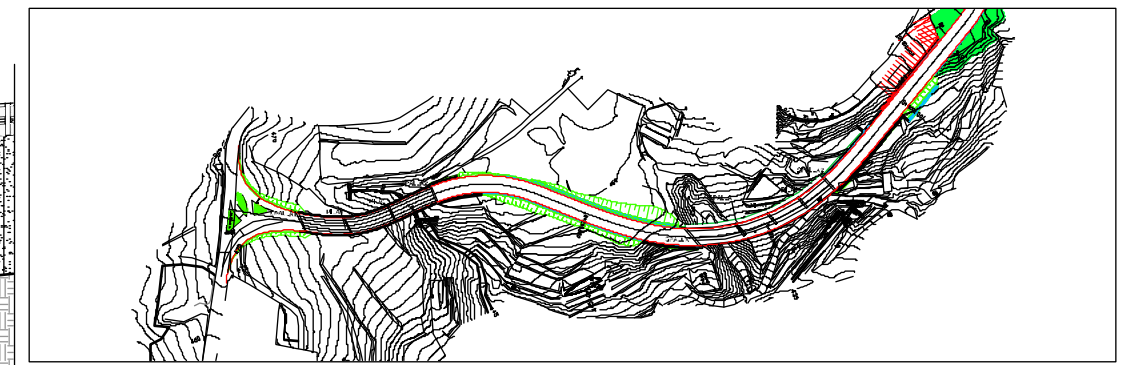
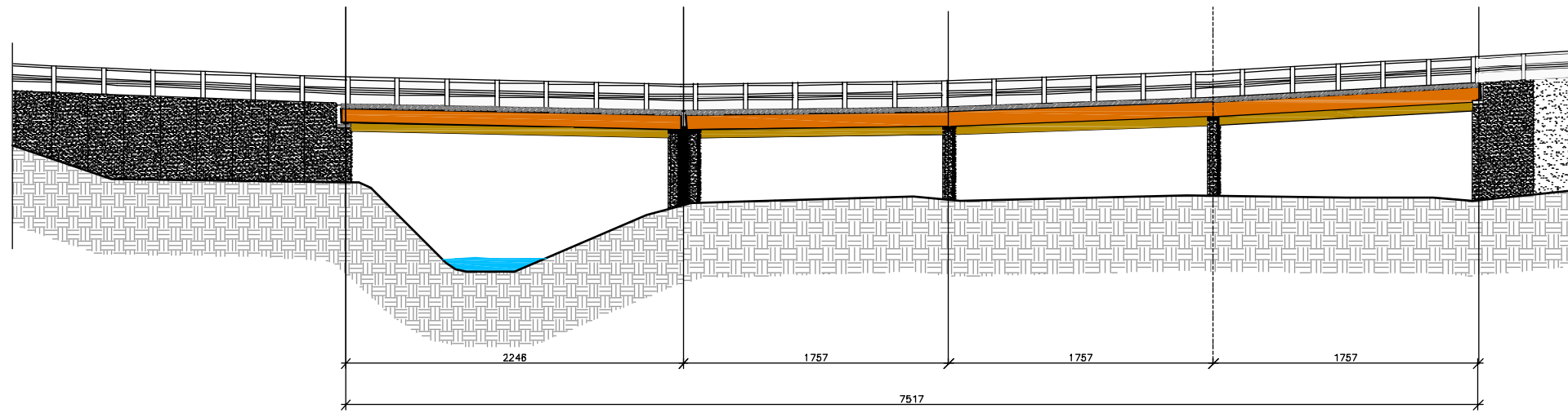
TAV. 17
 Cod. documento: D044-02Br2
 Scala: 1:50 - 1:25

Il Responsabile del Procedimento
 Dott. Ing. Riccardo Guddi

Progettazione e Coordinamento
 Dott. Ing. Gabriele Corri
 Dott. Geol. Giorgio Massanti

Consulenza Progettazione
 studio **TECHNE**
 Dott. Ing. Alberto Puccini
 Progettazione stradale
 Progettazione strutturale

| Rev. | Data | Descrizione | Redatto | Controllato |
|------|------|-------------|---------|-------------|
| | | | | |



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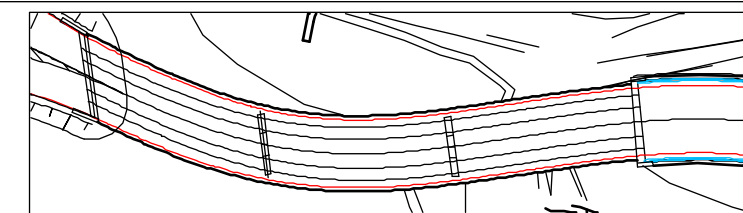
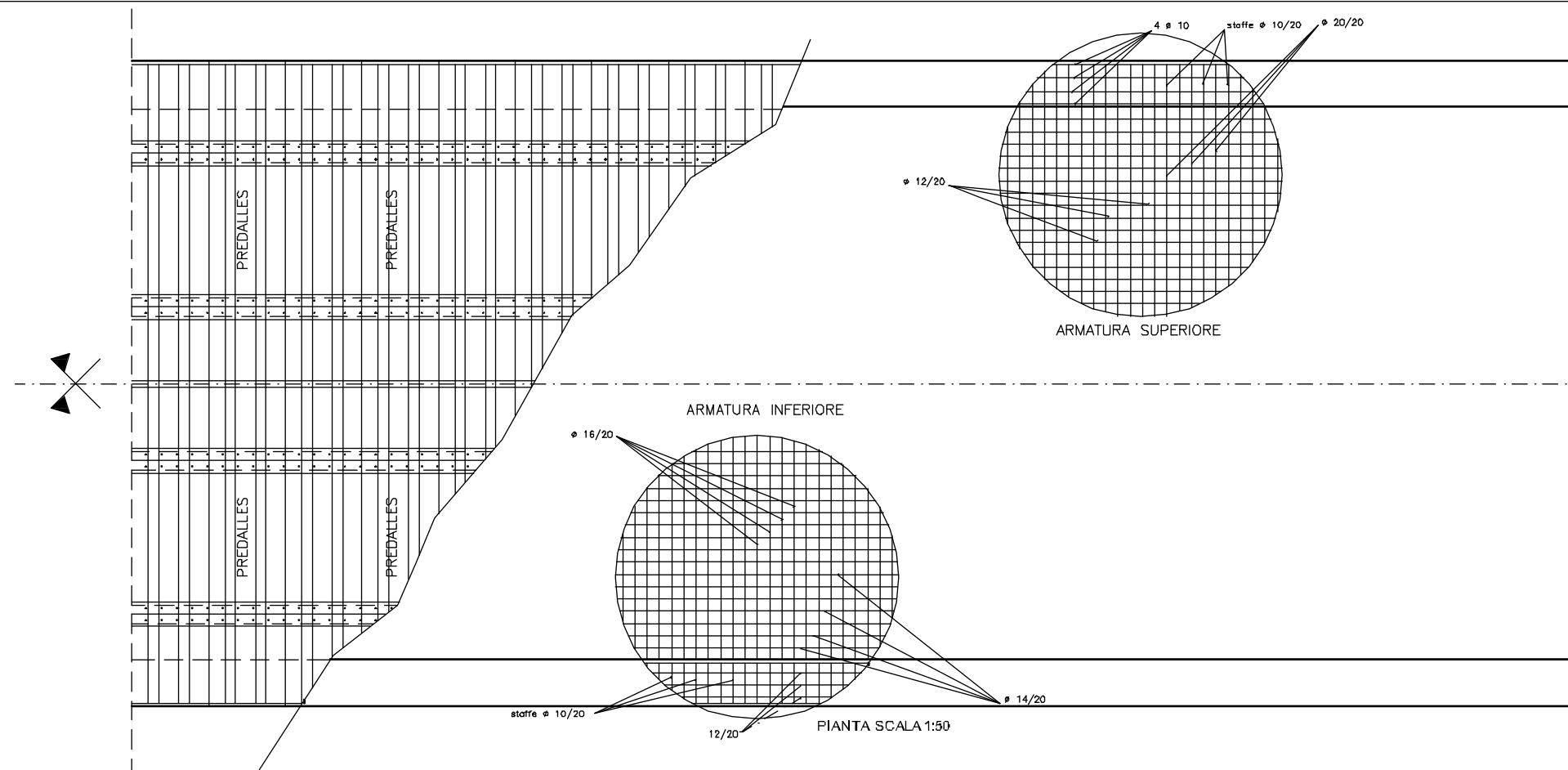
S.R. n° 445 "della Garfagnana"
 VARIANTE ALL'ABITATO DI CAMPORGIANO

PROGETTO ESECUTIVO

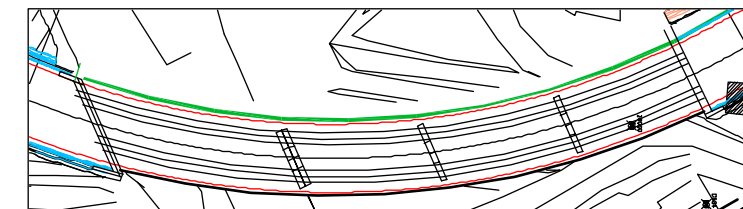
PONTE - VIADOTTO 2

Oggetto
 PIANTA, PROSPETTO, SEZIONE

| | | | | | |
|---|------|---|------------------------------|--|-------------|
| TAV. 23 | | Cod. documento D044-02P2r-2 | Scala 1:800 - 1:50 - 1:85 | | |
| Il Responsabile del Procedimento Dott. Ing. Riccardo Gaddi | | Progettazione e Coordinamento Dott. Ing. Gabriele Cerri Dott. Geol. Giorgio Musumatti | | Consulenza Progettazione Studio TECHNE S.p.A. Dott. Ing. Alberto Paoletti Progettazione stradale Progettazione strutturale | |
| Rev. | Data | Descrizione | | Redatto | Controllato |
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VIADOTTO 1

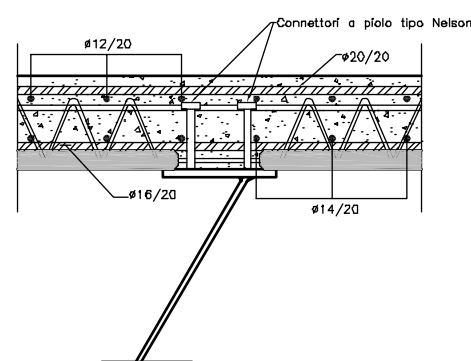
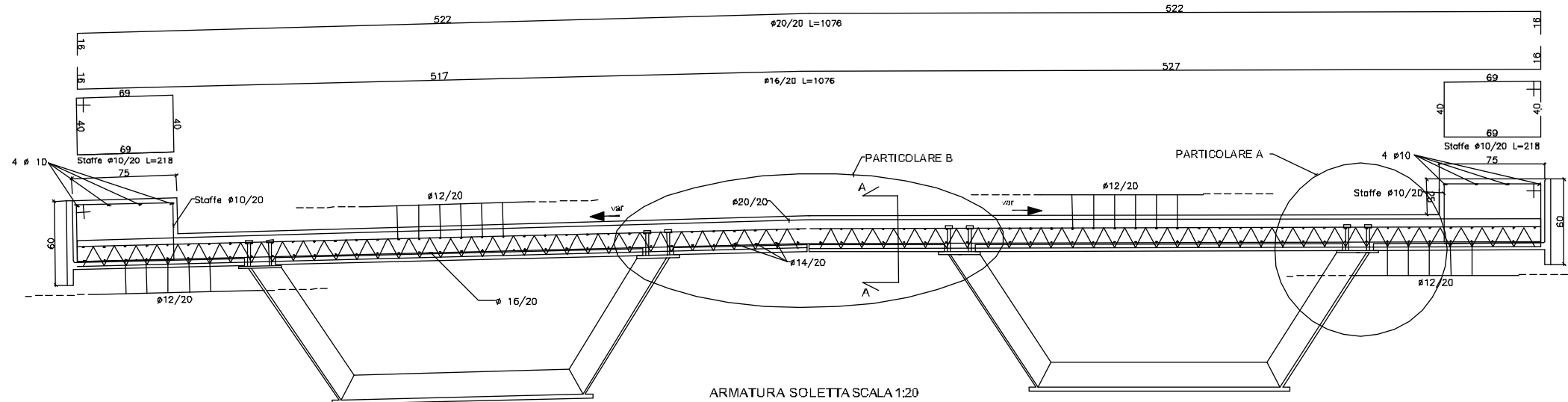


VIADOTTO 2

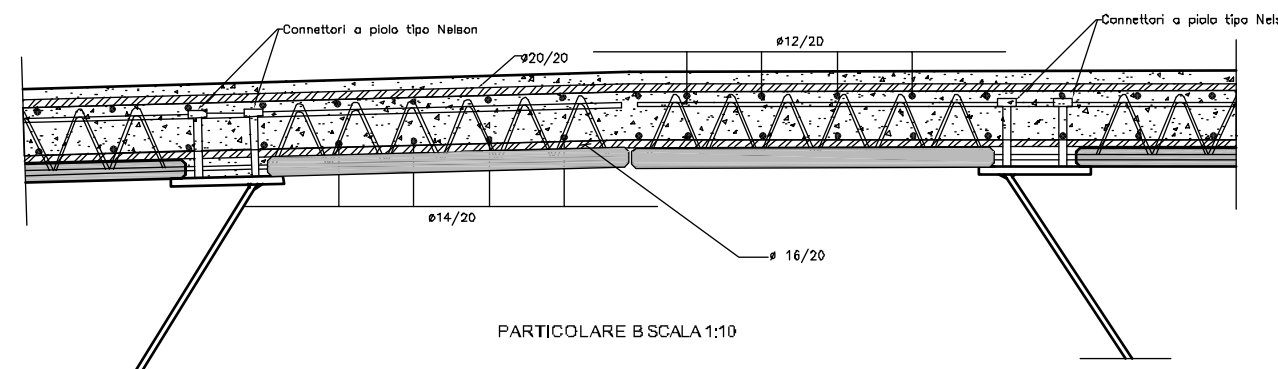
| MATERIALI | | | |
|--|-----------------------------------|-----------------------------------|---------------------------------------|
| Calcestruzzo str. liscio per soletta classe fcc=30 | $f_{ck} = 110 \text{ daN/cm}^2$ | $f_{ctm} = 3.7 \text{ daN/cm}^2$ | $f_{ctd} = 19.7 \text{ daN/cm}^2$ |
| Calcestruzzo per lastre predalles classe fcc=40 | $f_{ck} = 122.5 \text{ daN/cm}^2$ | $f_{ctm} = 7.33 \text{ daN/cm}^2$ | $f_{ctd} = 21.14 \text{ daN/cm}^2$ |
| Acciaio in barre Fe 344 e pernozz. | $f_{yk} = 2300 \text{ daN/cm}^2$ | $f / f_{yk} = 1.35$ | $(\sigma / \sigma_{yk})_{lim} = 1.13$ |
| Note: Il coefficiente di profilo è pari a 3 cm | | | |

Note

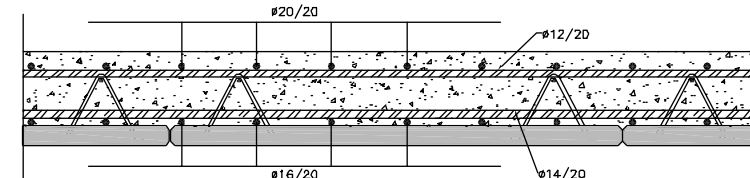
- Ove non indicato sovrapposizione minima dei ferri 40 diametri
- Armatura di stabilimento delle lastre predalles da calcolare per la fase di getto a cura del prefabbricatore
- Per qualità e provenienza dei materiali e modalità esecutive delle singole lavorazioni riferirsi all'elenco dei prezzi unitarie al capitolo speciale d'appalto
- In caso di dubbio richiedere indicazioni scritte alla D.L.



PARTICOLARE A SCALA 1:10



PARTICOLARE B SCALA 1:10



SEZIONE A-A SCALA 1:10

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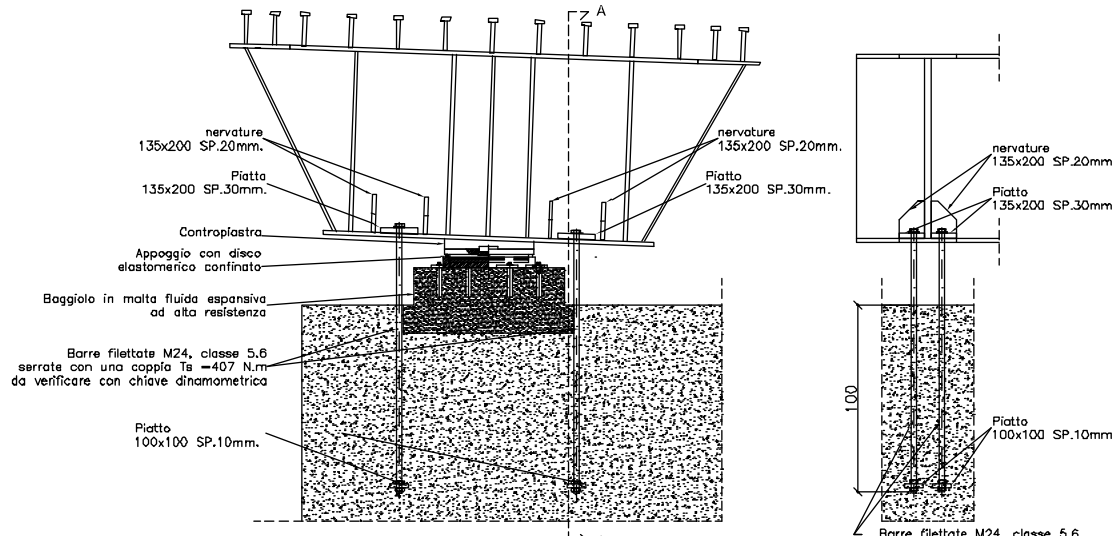
S.R. n° 445 "della Garfagnana"
 VARIANTE ALL'ABITATO DI CAMPORGIANO

PROGETTO ESECUTIVO

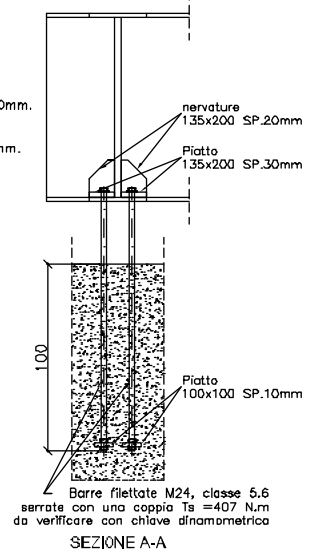
SOLETTA DI IMPALCATO

Oggetto
 ARMATURA TIPICA

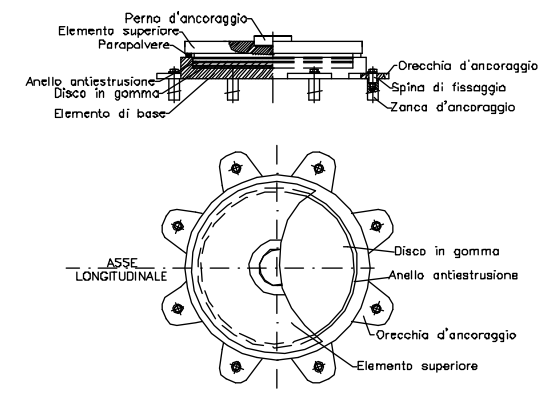
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|--|------|--|-----------------------------|--|
| TAV. 36 | | Cod. documento D044-02N°2 | Scala 1:50 - 1:20 - 1:10 | |
| Il Responsabile del Procedimento Dott. Ing. Riccardo Gaddi | | Progettazione e Coordinamento Dott. Ing. Gabriele Carri Dott. Geol. Giorgio Massanti | | Consulenza Progettazione studio TECHNE INGEGNERIA CIVILE Dott. Ing. Alberto Pucetti Progettazione stradale Progettazione strutturale |
| Rev. | Data | Descrizione | | Redatto |
| | | | | Controllato |
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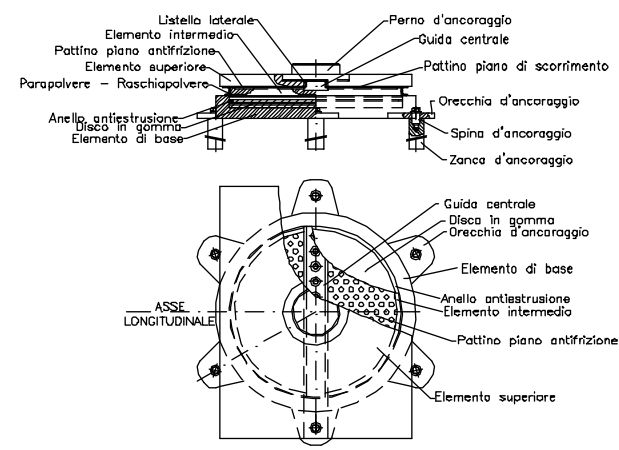
PARTICOLARE APPOGGIO 2 DEL PONTE
SCALA 1:20



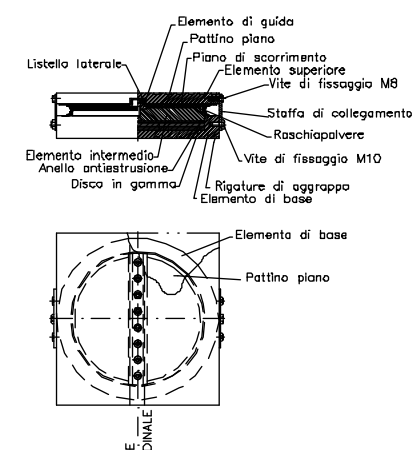
SEZIONE A-A



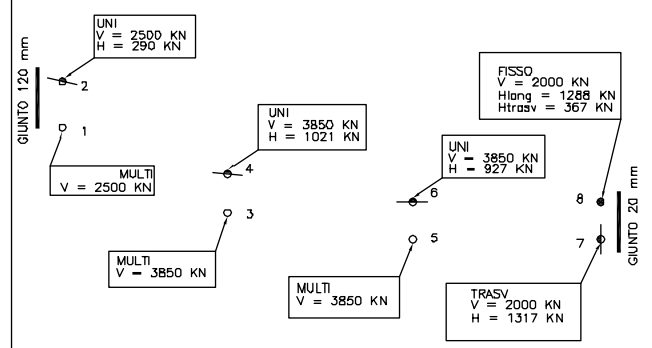
APPOGGIO TIPO FISSO
SCALA 1:10



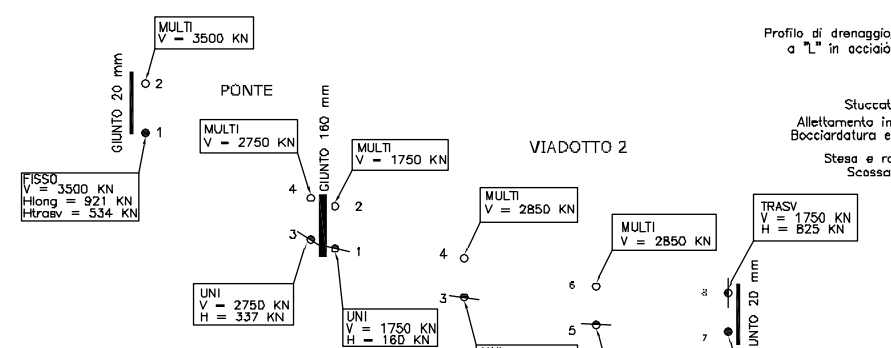
APPOGGIO TIPO UNIDIREZIONALE TRASVERSALE
SCALA 1:10



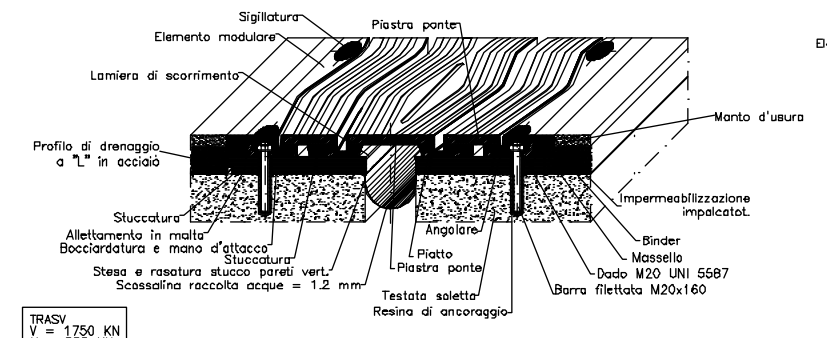
APPOGGIO TIPO UNIDIREZIONALE LONGITUDINALE
SCALA 1:10



SCHEMA AZIONI APPOGGI VIADOTTO 1

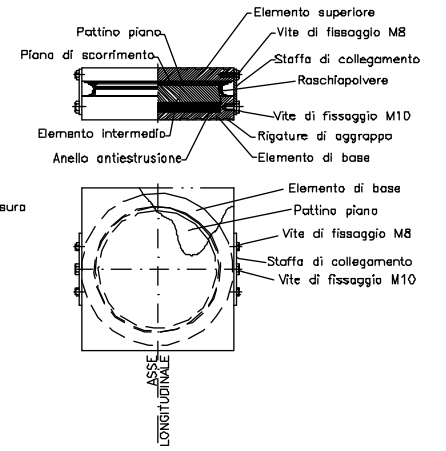


SCHEMA AZIONI APPOGGI PONTE E VIADOTTO 2

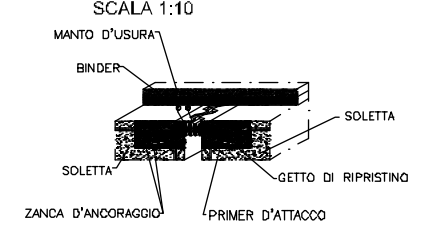


GIUNTO DI DILATAZIONE
SCALA 1:10

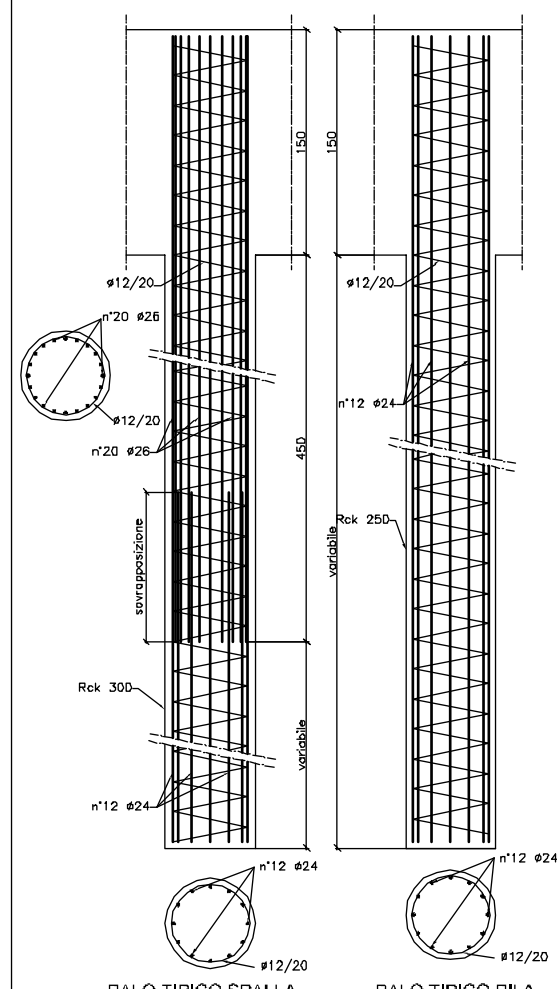
Note
 - Malta fluida espansiva ad alta resistenza art. 25.26 capitolo speciale d'appalto
 - Per qualità e provenienza dei materiali e modalità esecutive delle singole lavorazioni riferirsi all'elenco dei prezzi unitari e al capitolo speciale d'appalto
 - In caso di dubbio richiedere indicazioni scritte alla D.L.



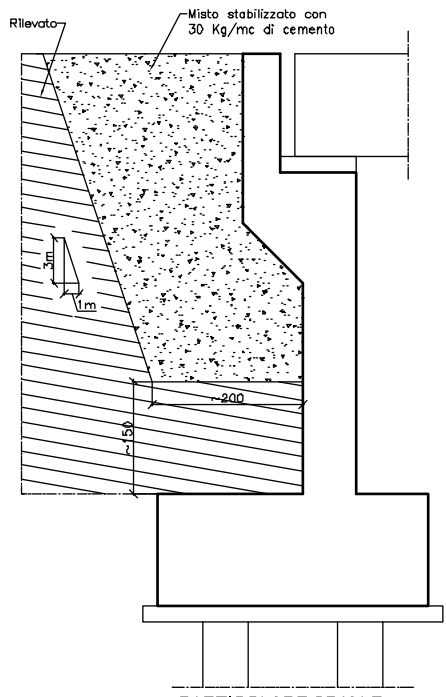
APPOGGIO TIPO MULTIDIREZIONALE
SCALA 1:10



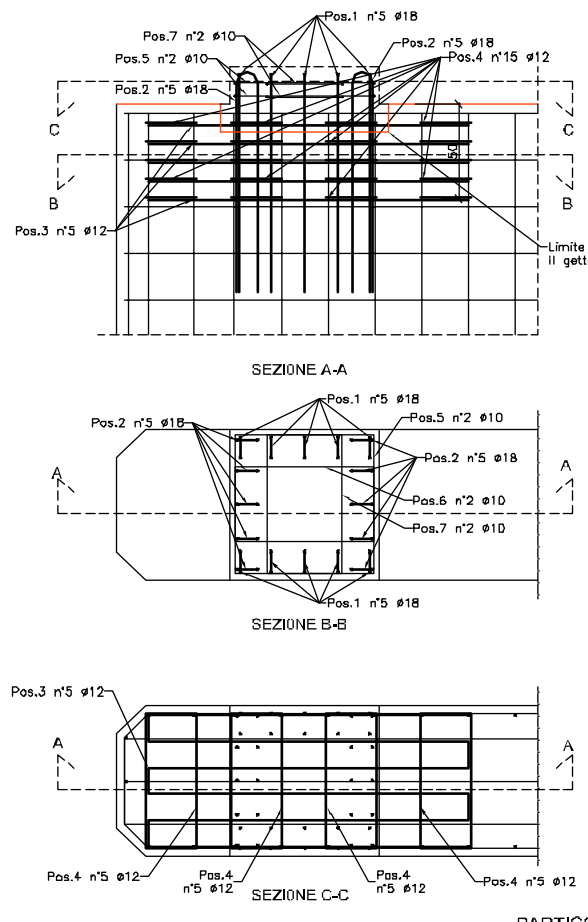
GIUNTO SOTTOPAVIMENTAZIONE
SCALA 1:10



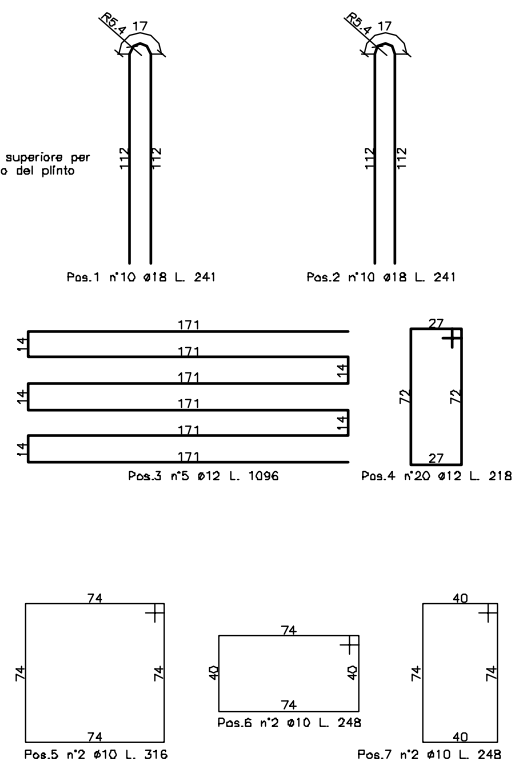
PALO TIPICO SPALLA SCALA 1:25
PALO TIPICO PILA SCALA 1:25



PARTICOLARE SPALLE
SCALA 1:50



PARTICOLARE ARMATURA DEL BAGGIOLO
SCALA 1:20



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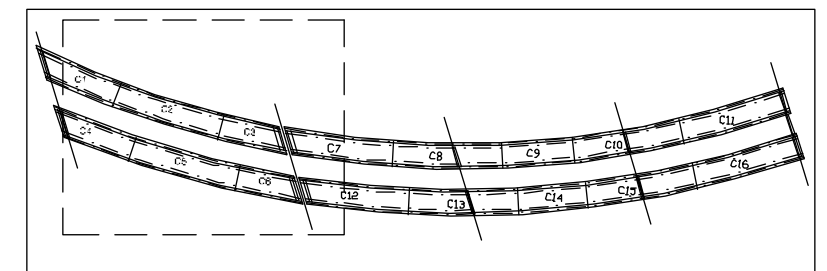
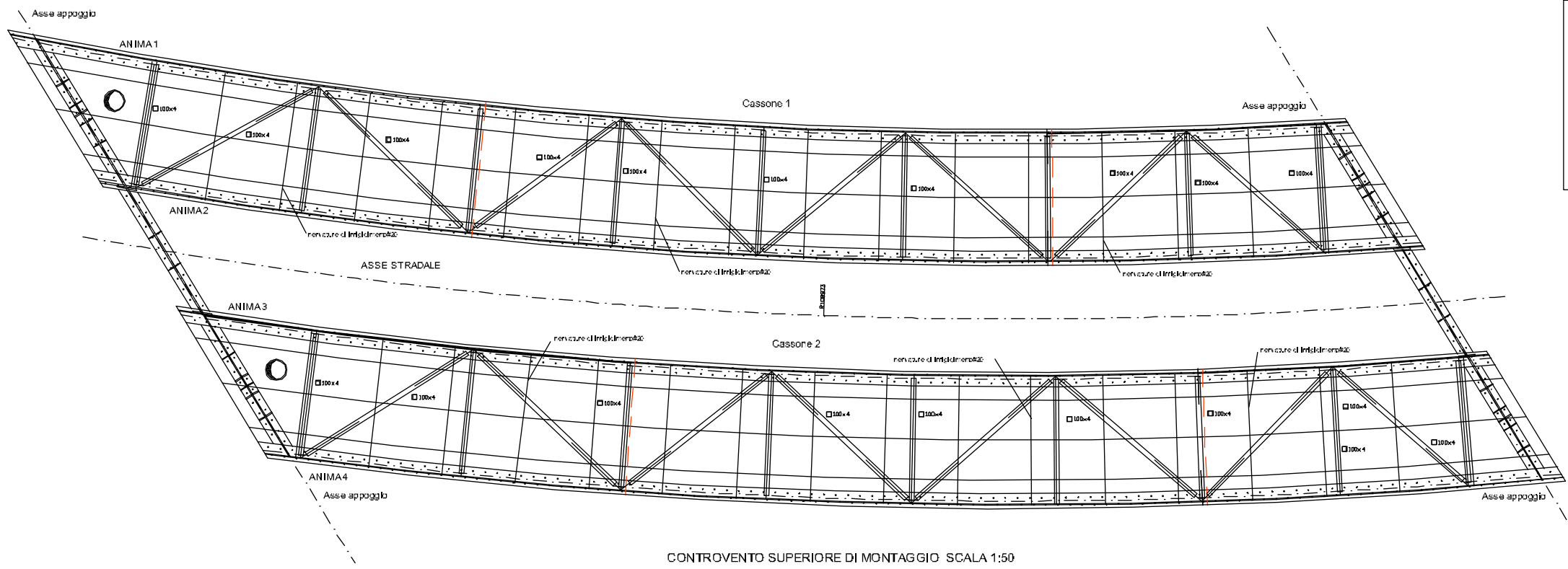
S.R. n° 445 "della Garfagnana"
 VARIANTE ALL'ABITATO DI CAMPORGIANO

PROGETTO ESECUTIVO

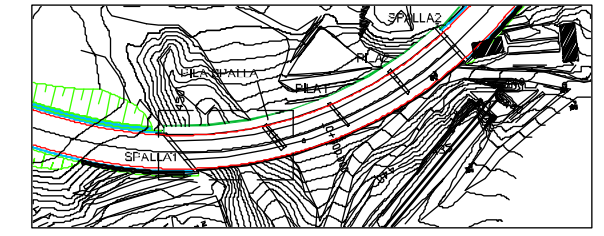
PONTE E VIADOTTI

Oggetto
 PARTICOLARI COSTRUTTIVI

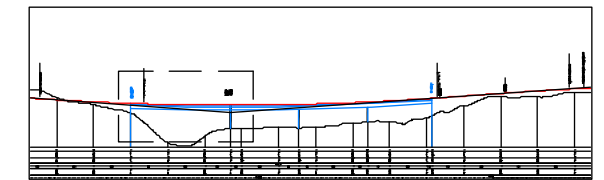
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| TAV. 37 | Cod. documento D044-020r2 | Scala 1:50 - 1:25 - 1:80 - 1:10 | | |
| Il Responsabile del Procedimento Dott. Ing. Riccardo Gaddi | Progettazione e Coordinamento Dott. Ing. Gabriele Cerri Dott. Geol. Giorgio Mammari | Consulenza Progettazione Studio TECHNE Dott. Ing. Alberto Puccini Progettazione stradale Progettazione strutturale | | |
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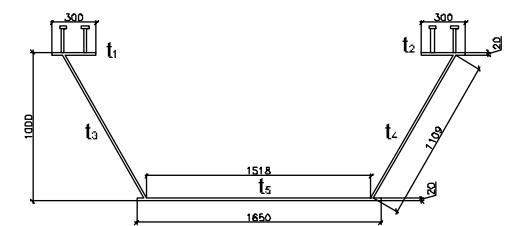
DIVISIONE IN CONCI DELLA STRUTTURA D'ACCIAIO



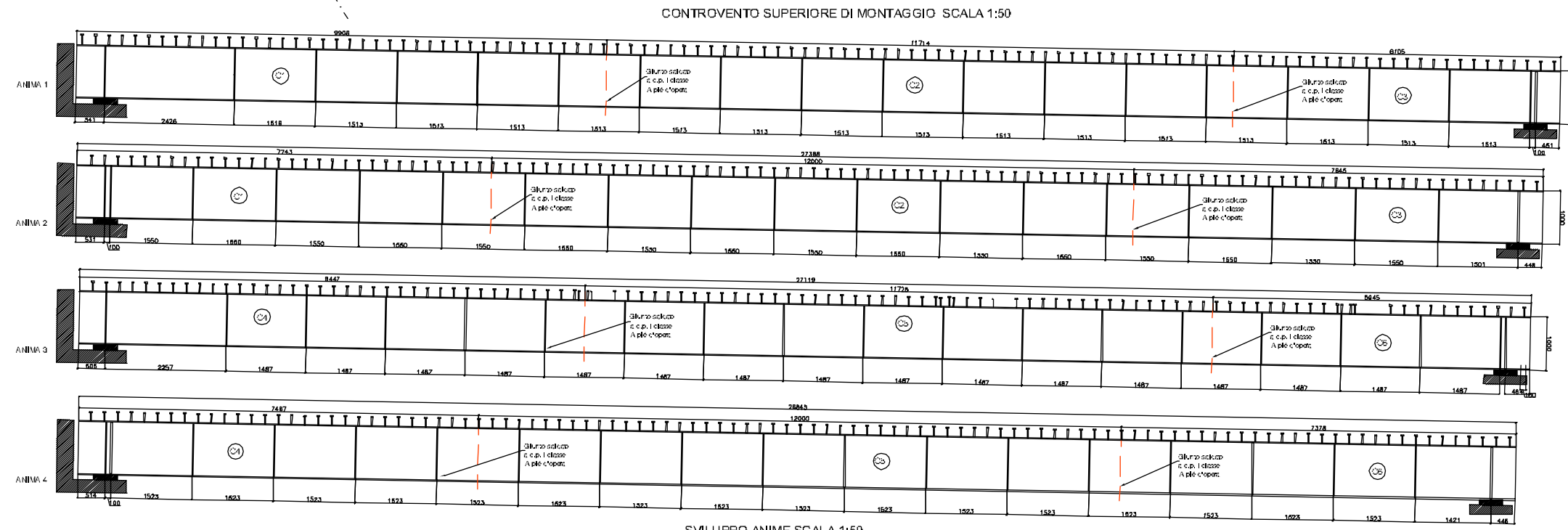
PLANIMETRIA



PROFLO LONGITUDINALE



CASSONE TIPO 1:25



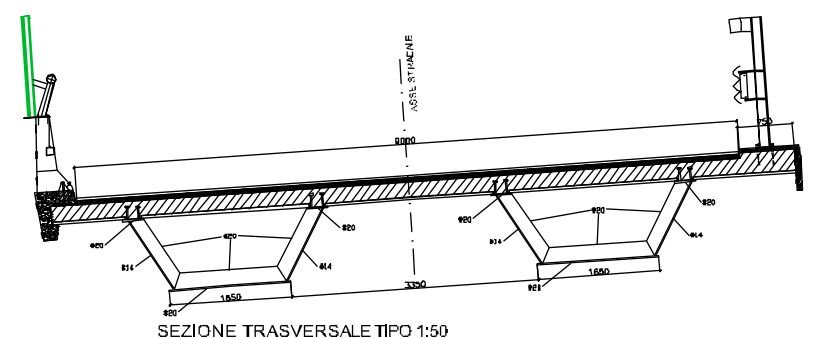
SVILUPPO ANIME SCALA 1:50

Nota:
 -Le quote planimetriche ed altimetriche devono essere verificate dall'impresa appaltatrice a realizzazione della sottostuttura avvenuta
 -Per qualità e provenienza dei materiali e modalità esecutive delle singole lavorazioni riferirsi all'elenco dei prezzi unitari e al capitolo speciale d'appalto
 -In caso di dubbio richiedere indicazioni scritte alla DL.

| | | MATERIALI | | | | | | SIMBOLOGIA COLLEGAMENTI | | | |
|----------------|-------------------|-----------|--------|--------|--------|--------|--|--|--|--|--|
| t ₁ | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | Calcestruzzo per magrone classe Foc 150 | σ _{ax} = 50,0 daN/cm ² | σ _{ax} = 4,0 daN/cm ² | σ _{ax} = 14,0 daN/cm ² | |
| t ₂ | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | 300x20 | Calcestruzzo strutturale per soletta classe Foc 350 | σ _{ax} = 110 daN/cm ² | σ _{ax} = 6,57 daN/cm ² | σ _{ax} = 19,7 daN/cm ² | |
| t ₃ | 110x4 | 110x4 | 110x4 | 110x4 | 110x4 | 110x4 | Acciaio In. qual. Fe 3.44 e perno. | σ _{ax} = 2400 daN/cm ² | f _{yk} = 1,35 | (f _{yk} /f _{yk}) = 1,18 | |
| t ₄ | 110x4 | 110x4 | 110x4 | 110x4 | 110x4 | 110x4 | Acciaio per curve rinf. metallurg. ferro Fe 510 C. Qual. rotella "Coteler" | σ _{ax} = 2400 daN/cm ² | σ _{ax} = 1385 daN/cm ² | | |
| t ₅ | 660x20 | 660x20 | 660x20 | 660x20 | 660x20 | 660x20 | 3 bulli classe 8.8 | σ _{ax} = 3730 daN/cm ² | σ _{ax} = 2400 daN/cm ² | | |
| connettori | 2x4x4 Ø22/4 n° 30 | | | | | | Tiranti di classe 4.6 | σ _{ax} = 1300 daN/cm ² | σ _{ax} = 1130 daN/cm ² | | |
| controfessia | | | | | | | Note: Il coefficiente di punta è cm | | | | |



SEZIONE TRASVERSALE SPALLA 1:50



SEZIONE TRASVERSALE TIPO 1:50

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S.R. n° 445 "della Garfagnana"
 VARIANTE ALL'ABITATO DI CAMPORGIANO

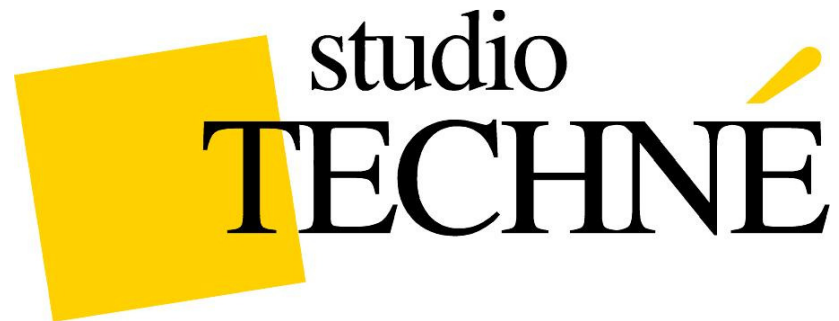
PROGETTO ESECUTIVO

PROGETTO PONTE-VIADOTTO 2 SU FOSSO DEL LICONE E VIABILITA' SECONDARIA ESISTENTE

Oggetto
 PONTE - COMPOSIZIONE DELLA TRAVATA

| | | | | |
|---|---|--|---------|-------------|
| TAV. 24 | Cod. documento DD44-02Gr2 | Scala 1:50 - 1:85 | | |
| Il Responsabile del Procedimento Dot. Ing. Riccardo Gaddi | Progettazione e Coordinamento Dot. Ing. Gabriele Cerri Dot. Geol. Giorgio Musumatti | Consulenza Progettazione Studio TECHNÉ Dot. Ing. Alberto Paoletti Progettazione stradale Progettazione strutturale | | |
| Rev. | Data | Descrizione | Redatto | Controllato |
| | | | | |



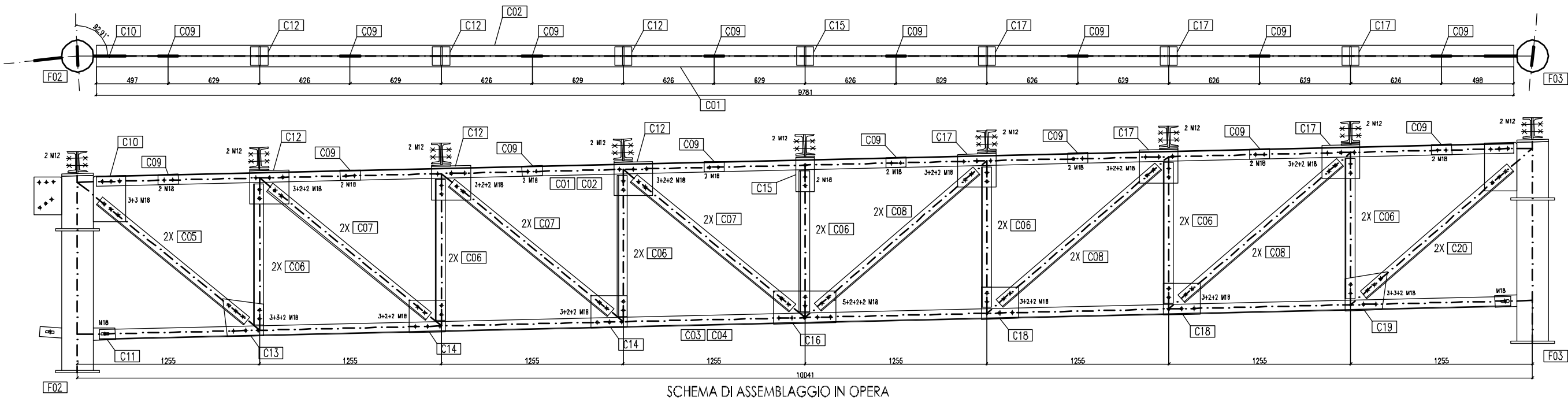


PRIVATE ACCESS ROAD WIDENING – BAGNI DI LUCCA (LU)

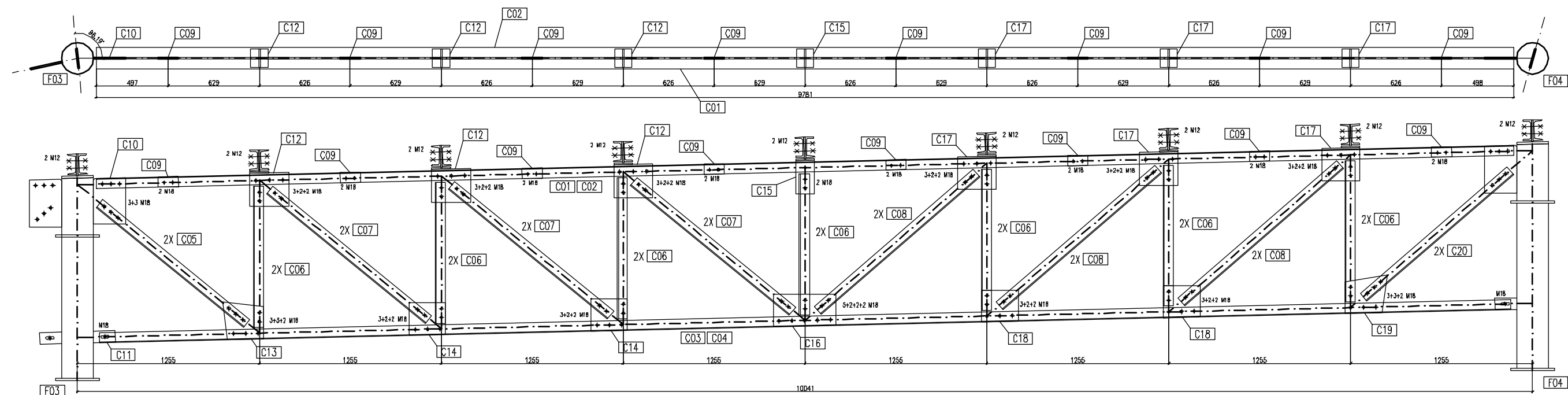
DESCRIPTION: CIVIL AND STRUCTURAL DETAILED DESIGN OF A PRIVATE ACCESS ROAD WIDENING IN THE MUNICIPALITY OF BAGNI DI LUCCA (LU)

CLIENT: MR AUGUSTINUS RIETER

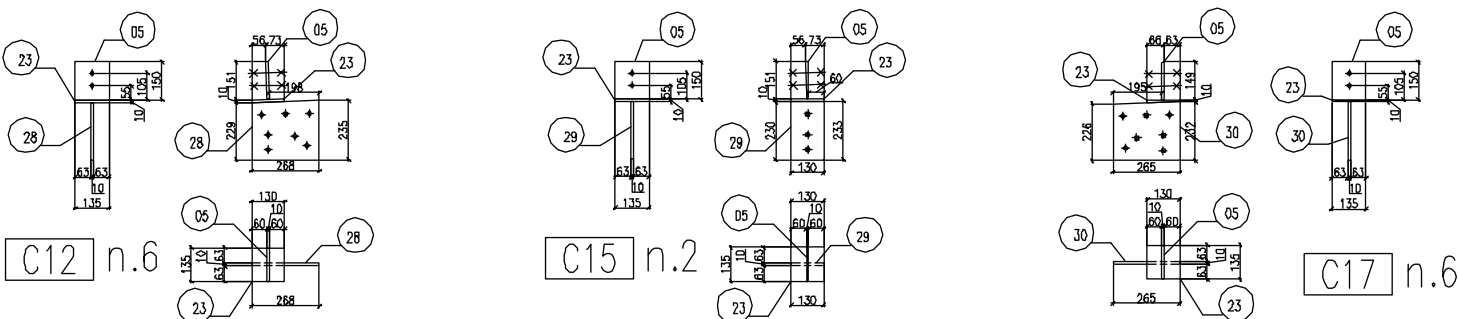
STATUS: BUILT



SCHEMA DI ASSEMBLAGGIO IN OPERA



SCHEMA DI ASSEMBLAGGIO IN OPERA



| Pezzi | Sezione | Lungh. | Peso/m | Pos. | Marche | Numero posizioni per marche | P. unitario | P. totale |
|-------|---------------|--------|--------|------|--------|-----------------------------|-------------|-----------|
| 6 | | | | | C12 | | 8 | 47 |
| 2 | | | | | C15 | | 5 | 11 |
| 6 | | | | | C17 | | 8 | 47 |
| 2 | L 70x7 | 9783 | 7.4 | | C01 | | 72 | 144 |
| 2 | L 70x7 | 9783 | 7.4 | | C02 | | 72 | 144 |
| 2 | L 70x7 | 9743 | 7.4 | | C03 | | 72 | 144 |
| 2 | L 70x7 | 9743 | 7.4 | | C04 | | 72 | 144 |
| 4 | L 70x7 | 1310 | 7.4 | | C05 | | 10 | 39 |
| 28 | L 70x7 | 970 | 7.4 | | C06 | | 7 | 200 |
| 12 | L 70x7 | 1412 | 7.4 | | C07 | | 10 | 125 |
| 12 | L 70x7 | 1444 | 7.4 | | C08 | | 11 | 128 |
| 16 | Piatto 140x10 | 70 | 11.0 | | C09 | | 1 | 12 |
| 2 | Piatto 320x10 | 222 | 25.1 | | C10 | | 6 | 11 |
| 2 | Piatto 80x10 | 152 | 6.3 | | C11 | | 1 | 2 |
| 2 | Piatto 285x10 | 261 | 22.4 | | C13 | | 6 | 12 |
| 4 | Piatto 225x10 | 250 | 17.7 | | C14 | | 4 | 18 |
| 2 | Piatto 225x10 | 435 | 17.7 | | C16 | | 8 | 15 |
| 4 | Piatto 255x10 | 220 | 20.0 | | C18 | | 4 | 18 |
| 2 | Piatto 294x10 | 260 | 23.1 | | C19 | | 6 | 12 |
| 4 | L 70x7 | 1339 | 7.4 | | C20 | | 10 | 40 |
| | | | | | | | TOTALE | 1313 |

SIMBOLOGIA COLLEGAMENTI

CORDONI DI SALDATURA TIPICI
RETTANGOLO CON DIVERSE SPECIFICAZIONI



FORI PER BULLONI STANDARD

| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M10 | 11 | 11.5 | | M20 | 21 | 21.5 | 4.39 | 5.49 | |
| M12 | 13 | 13.5 | 9C | M22 | 23 | 24 | 5.97 | 7.41 | |
| M14 | 15 | 15.5 | 1.44 | M24 | 25 | 25 | 5.97 | 9.49 | |
| M16 | 17 | 17.5 | 2.28 | M27 | 28 | 29 | 11.96 | 13.55 | |
| M18 | 19 | 19.5 | 3.69 | M30 | 31 | 32 | 13.95 | 15.55 | |

| | | | | | | | | |
|--------|----------|-------------|----------|------------|-----------|--------|--|--|
| 0 | 25/06/02 | EMISSIONE | | | | | | |
| REVIS. | DATA | DESCRIZIONE | ESEGUITO | VERIFICATO | APPROVATO | U.T.E. | | |

LENCONI COSTRUZIONI METALLICHE s.r.l. - Lucca

CLIENTE: SIG. RIETER

DESCRIZIONE: AMPLIAMENTO STRADA DI ACCESSO AD ABITAZIONE PRIVATA

TITOLO: TRAVE RETICOLARE TIPO "C"

La proprietà di questo disegno è tutelata a termini di legge. È vietato quindi usarlo, riprodurlo, modificarlo, renderlo noto a terzi.

DIS. N° 233-05

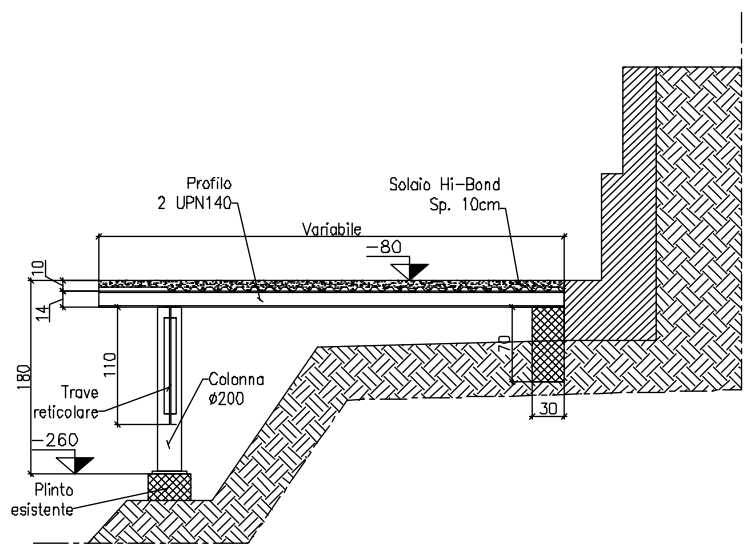
DATA 25/06/02

SCALA 1:15

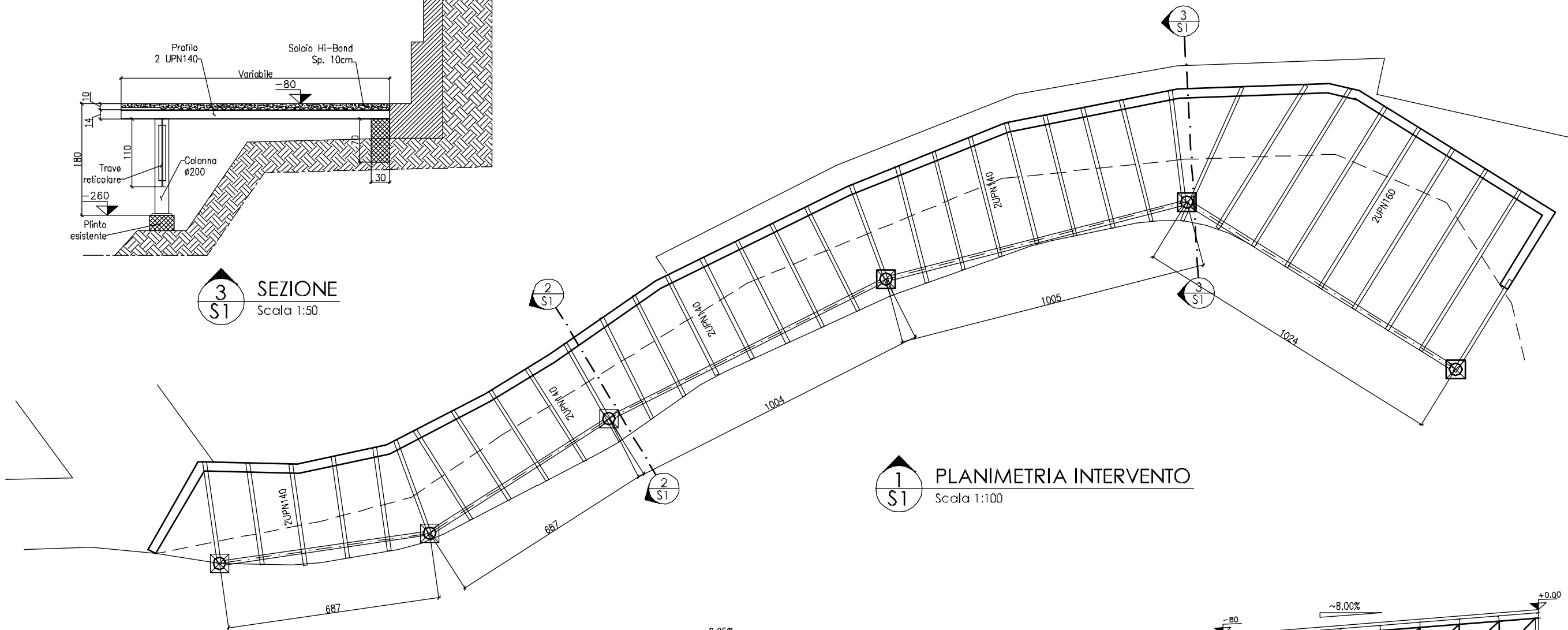
DESIGNO TECHN'E'

VISTO U.T.E.

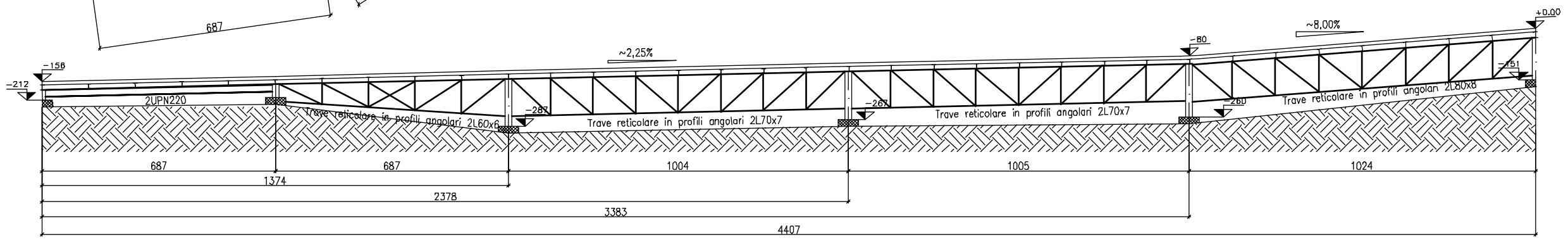
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|---------|-----------|----------|
| R0 | Emissione | 06/06/02 |



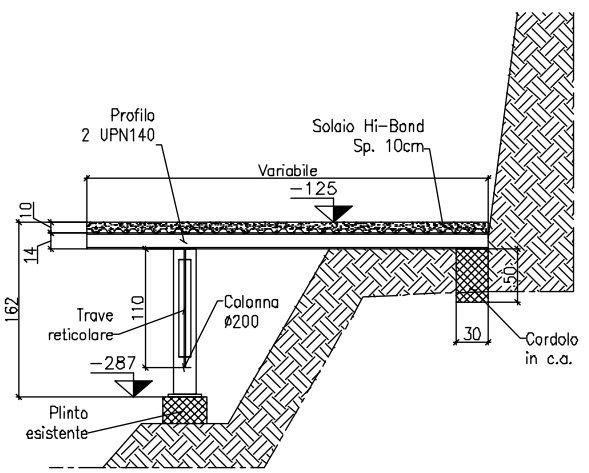
3 SEZIONE
Scala 1:50




1 PLANIMETRIA INTERVENTO
Scala 1:100



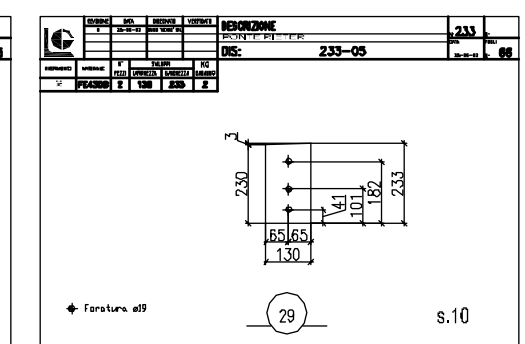
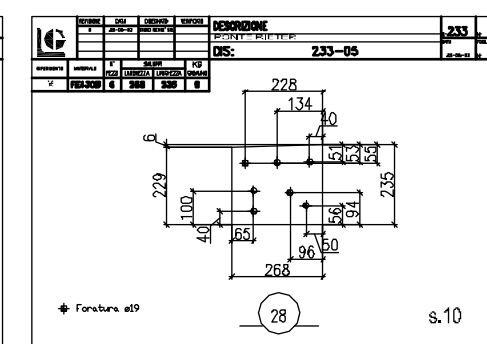
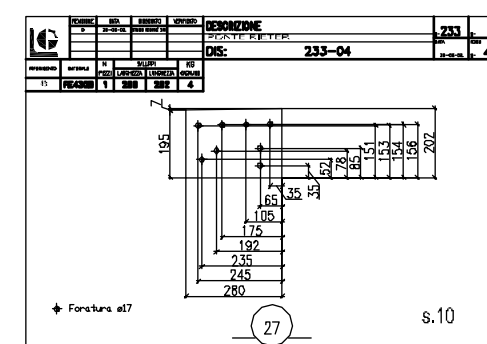
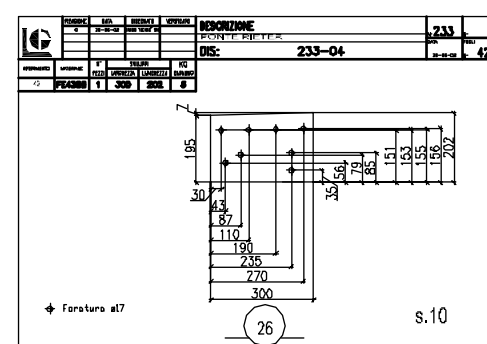
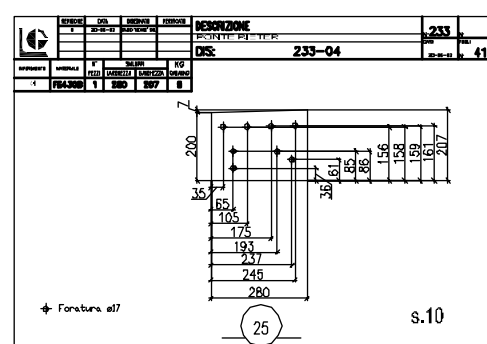
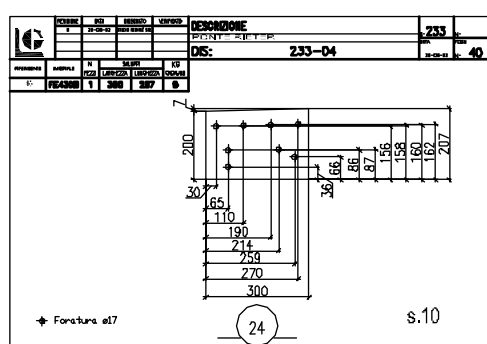
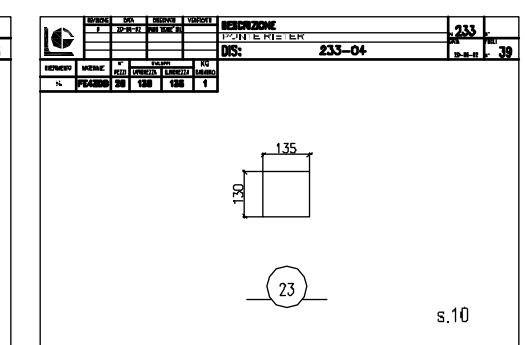
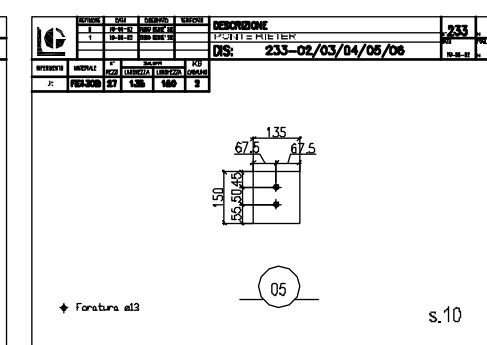
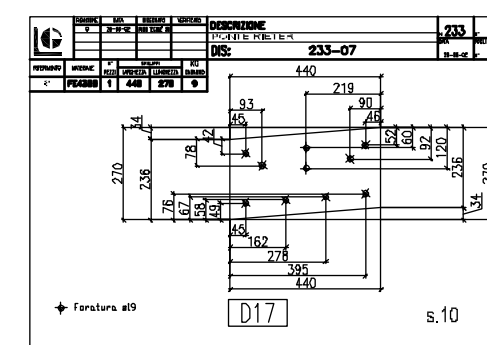
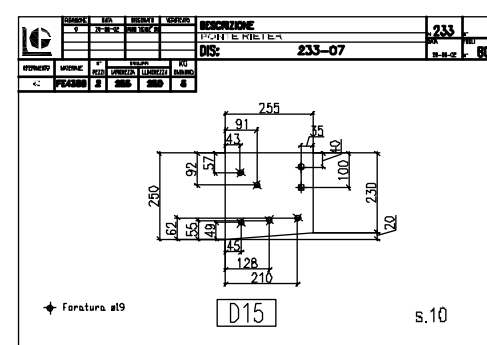
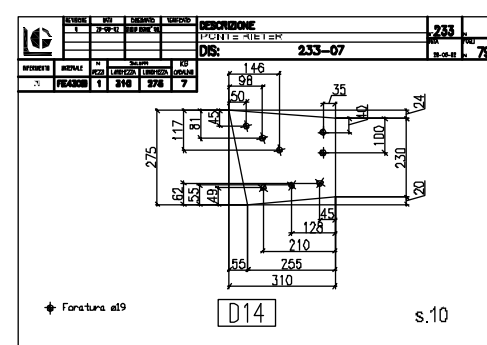
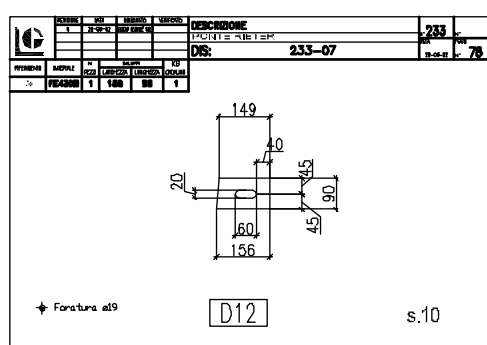
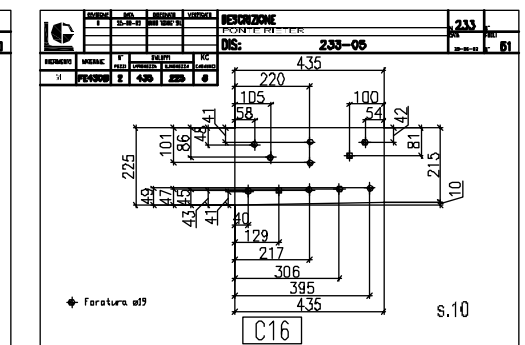
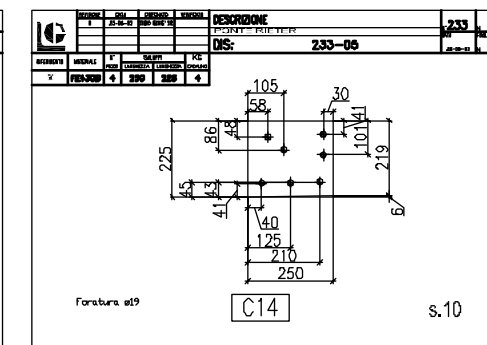
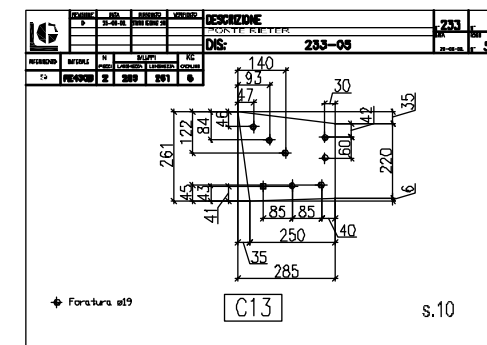
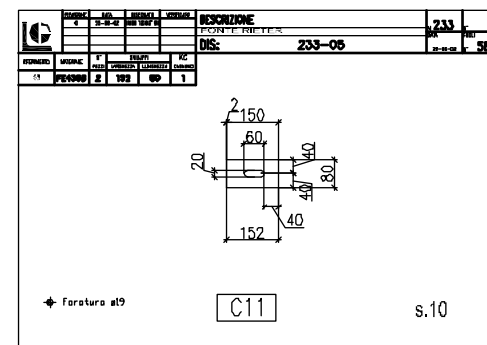
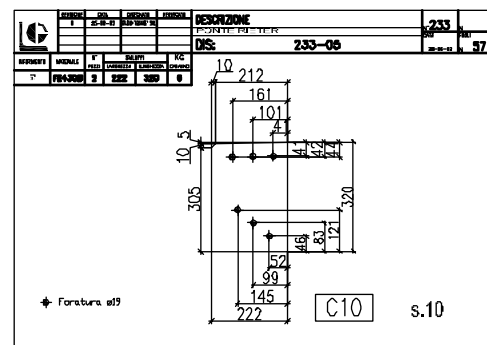
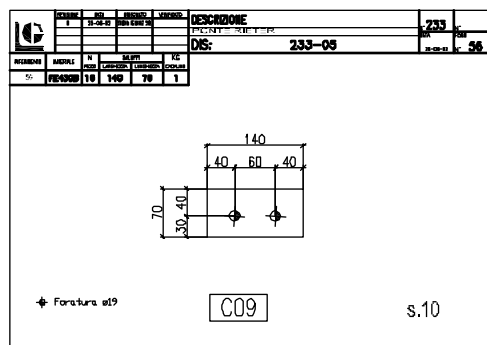
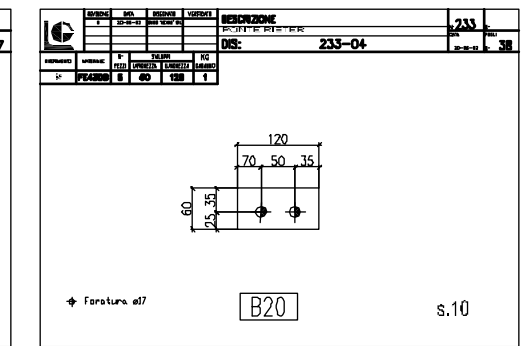
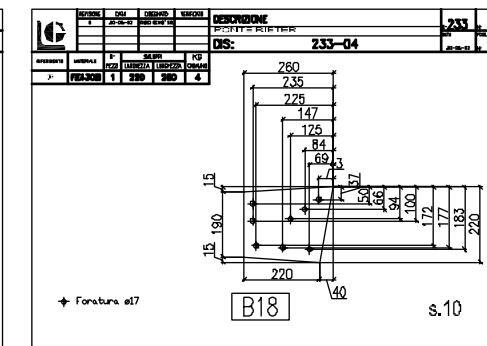
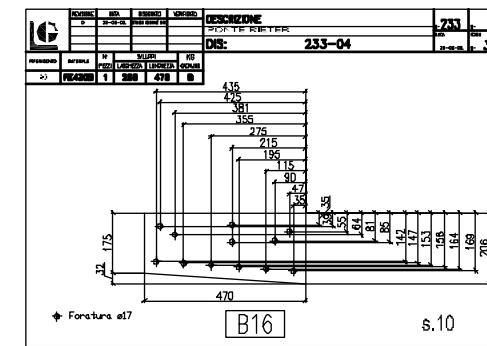
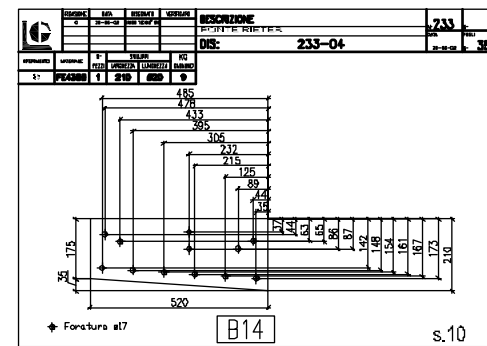
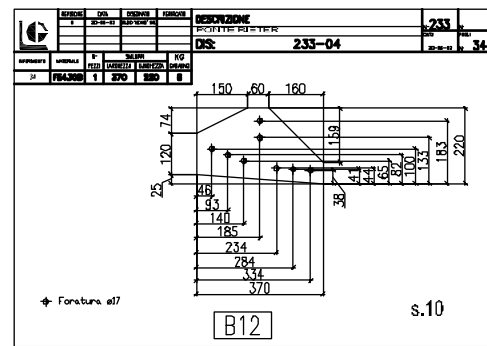
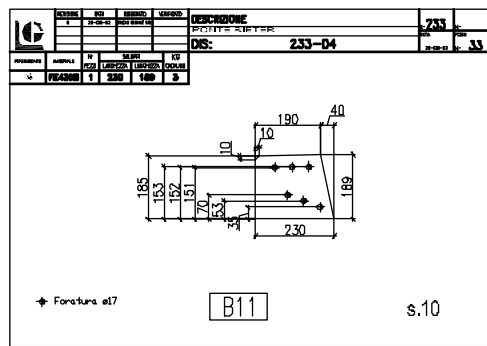
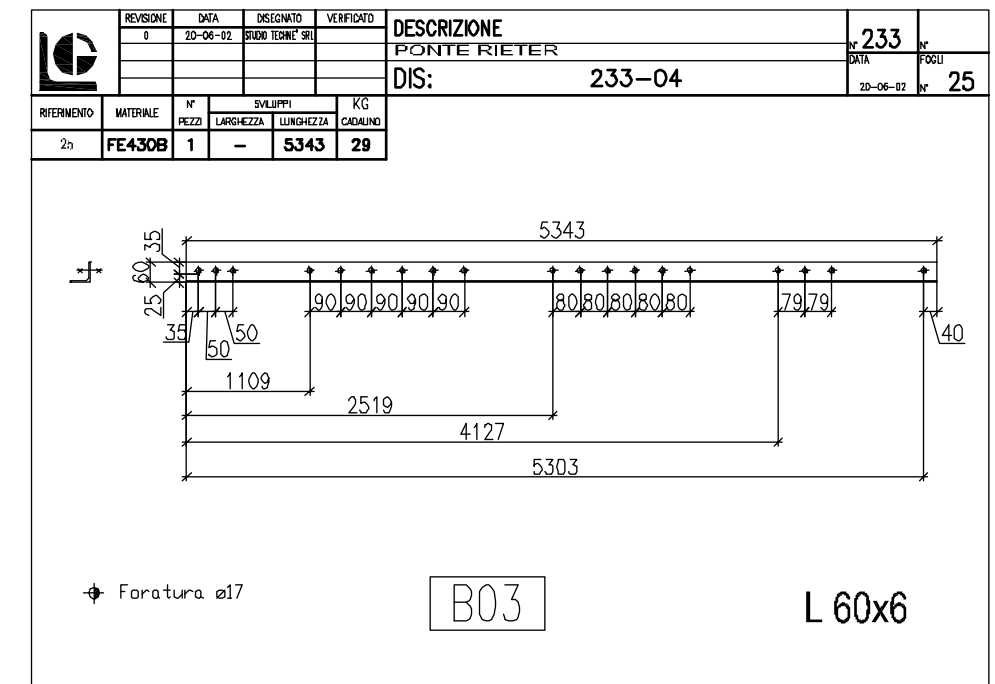
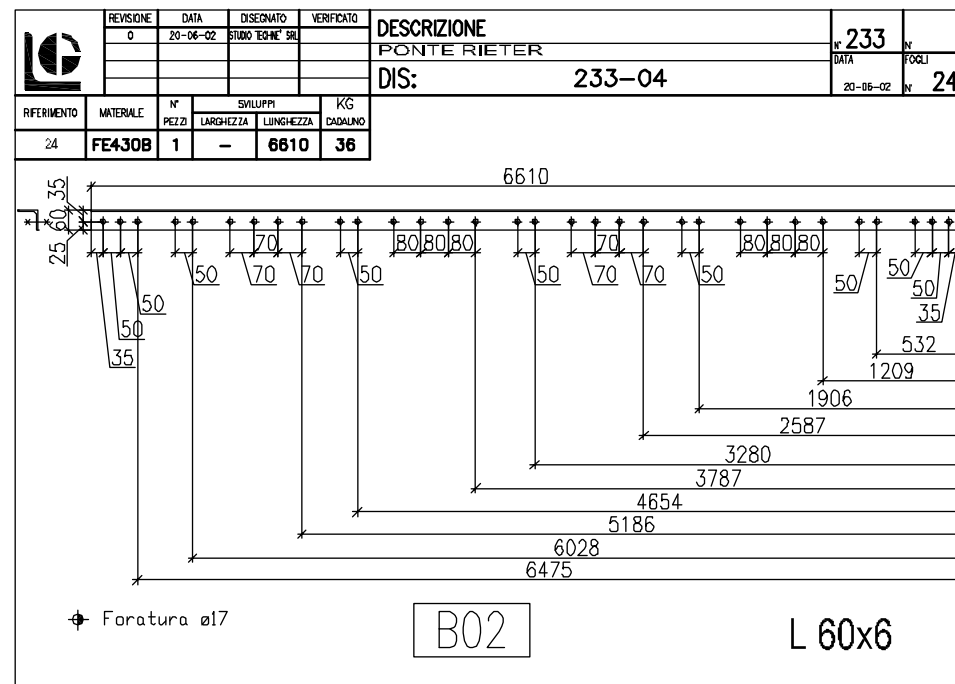
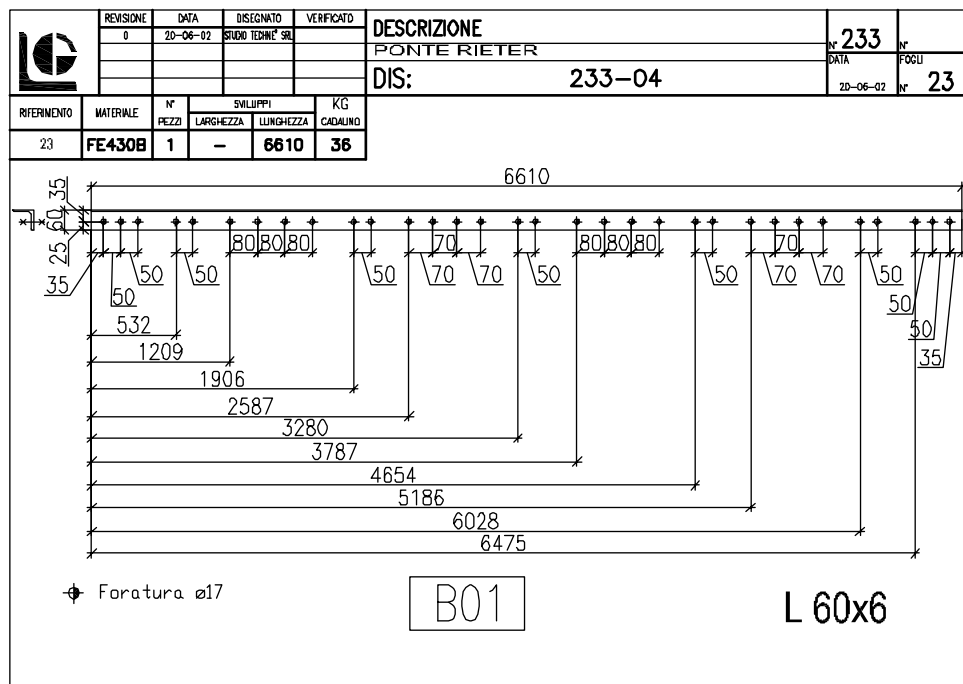
4 PROFILO LONGITUDINALE
Scala 1:100

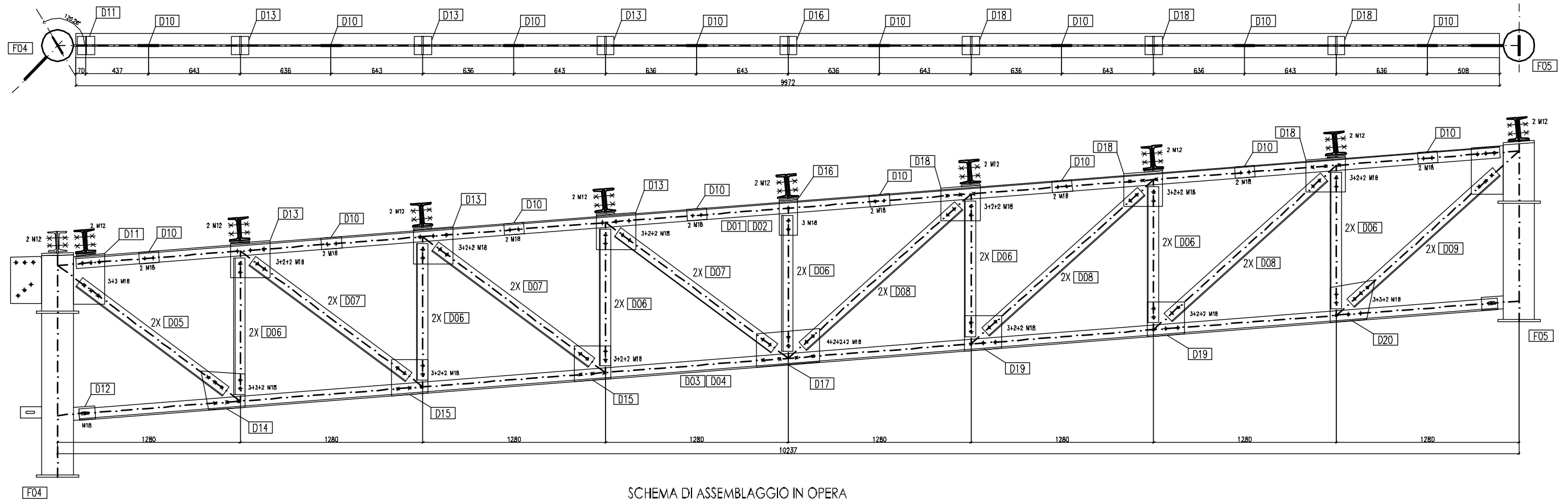


2 SEZIONE
Scala 1:50

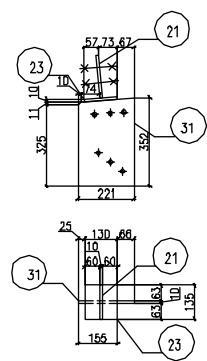
| | | |
|--|---|---|
| Comune di BAGNI DI LUCCA | Oggetto Tavola Assieme generale delle opere strutturali | Commessa 045-02 |
| Livello Progetto PRELIMINARE | Committente LENZIONI COSTRUZIONI METALLICHE S.R.L. | Tavola S01 |
| Quantità tavola 01 | Oggetto Commessa SISTEMAZIONE STRADA PRIVATA PER ACCESSO ABITAZIONE | Rev. Scad. r0 VARIE |
| Data 06/06/02 | Codice File D045-02S01r0 | Disegnato da Ing. F. Pisano |
|  | | Responsabile commessa Ing. F. Pisano |
| Via Nuova del Pisa, 9624 - 55038 S. Maria del Giudice - LUCCA Tel. +39 0583 270892 - Fax +39 0583 27109 www.studiotecno.com - e-mail: info@studiotecno.com | | Approvato da Ing. A. Puccini |

La stampa di questo disegno è autorizzata ai termini di legge. È vietata la ristampa, l'uso non autorizzato, l'uso per scopi diversi da quelli per i quali è stato prodotto.

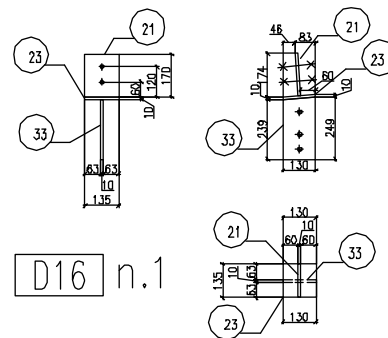




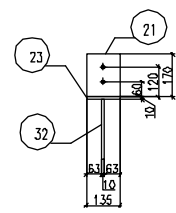
SCHEMA DI ASSEMBLAGGIO IN OPERA



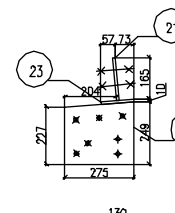
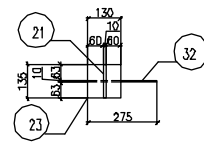
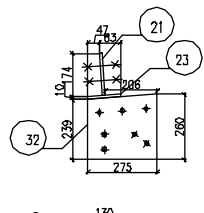
D11 n.1



D16 n.1



D13 n.3



D18 n.3

| Pezzi | Sezione | Lungh. | Peso/m | Pos. | Marche | Numero posizioni per marche | P. unitario | P. totale |
|-------|---------------|--------|--------|------|--------|-----------------------------|-------------|-----------|
| 1 | | | | | D11 | | 9 | 9 |
| 3 | | | | | D13 | | 9 | 26 |
| 1 | | | | | D16 | | 6 | 6 |
| 3 | | | | | D18 | | 9 | 26 |
| 1 | L 80x8 | 10002 | 9.7 | | D01 | | 97 | 97 |
| 1 | L 80x8 | 10002 | 9.7 | | D02 | | 97 | 97 |
| 1 | L 80x8 | 9962 | 9.7 | | D03 | | 96 | 96 |
| 1 | L 80x8 | 9962 | 9.7 | | D04 | | 96 | 96 |
| 2 | L 80x8 | 1279 | 9.7 | | D05 | | 12 | 25 |
| 14 | L 80x8 | 953 | 9.7 | | D06 | | 9 | 129 |
| 6 | L 80x8 | 1356 | 9.7 | | D07 | | 13 | 79 |
| 6 | L 80x8 | 1468 | 9.7 | | D08 | | 14 | 85 |
| 2 | L 80x8 | 1373 | 9.7 | | D09 | | 13 | 27 |
| 8 | Piatto 70x10 | 140 | 5.5 | | D10 | | 1 | 6 |
| 1 | Piatto 90x10 | 156 | 7.1 | | D12 | | 1 | 1 |
| 1 | Piatto 275x10 | 310 | 21.6 | | D14 | | 7 | 7 |
| 2 | Piatto 255x10 | 250 | 20.0 | | D15 | | 5 | 10 |
| 1 | Piatto 270x10 | 440 | 21.2 | | D17 | | 9 | 9 |
| 2 | Piatto 245x10 | 280 | 19.2 | | D19 | | 5 | 10 |
| 1 | Piatto 295x10 | 315 | 23.2 | | D20 | | 7 | 7 |
| | | | | | | TOTALE | 648 | |
| 8 | Piatto 170x10 | 135 | 13.3 | 21 | | | 2 | 14 |
| 8 | Piatto 130x10 | 135 | 10.2 | 23 | | | 1 | 11 |
| 1 | Piatto 223x10 | 353 | 17.5 | 31 | | | 6 | 6 |
| 3 | Piatto 275x10 | 280 | 21.6 | 32 | | | 6 | 17 |
| 1 | Piatto 130x10 | 249 | 10.2 | 33 | | | 3 | 3 |
| 3 | Piatto 275x10 | 280 | 21.6 | 34 | | | 6 | 17 |

| REVIS. | DATA | EMISSIONE | DESCRIZIONE | ESEGUITO | VERIFICATO | APPROVATO |
|--------|----------|-----------|-------------|----------|------------|-----------|
| 0 | 28/06/02 | EMISSIONE | | | | U.T.E. |

LENCONI COSTRUZIONI METALLICHE s.r.l. - Lucca

CLIENTE: SIG. RIETER DIS. N° 233-07

DESCRIZIONE: AMPIAMENTO STRADA DI ACCESSO AD ABITAZIONE PRIVATA DATA 28/06/02

TITOLO: TRAVE RETICOLARE TIPO "D" SCALA 1:15

La proprietà di questo disegno è tutelata a termini di legge. È vietato quindi usarlo, riprodurlo, modificarlo, renderlo noto a terzi. DISSEGNO TECHNÉ'

VISTO U.T.E.

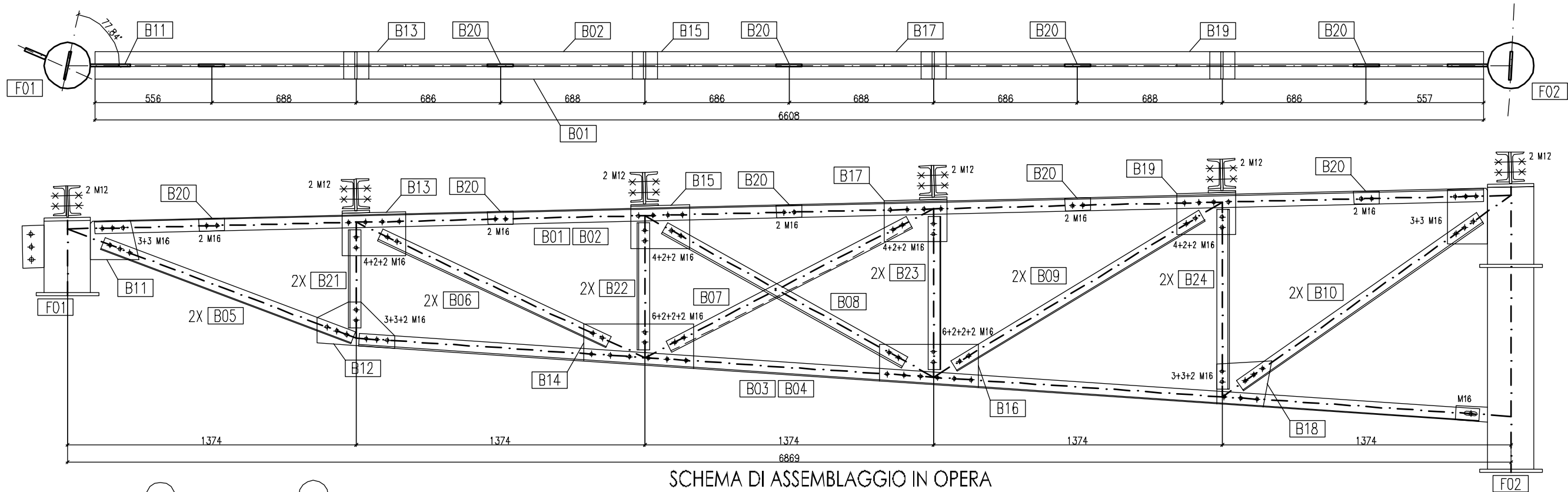
SIMBOLOGIA COLLEGAMENTI

CORDONI DI SALDATURA TIPICI
RETTANGOLO DOVE DIVERSAMENTE SPECIFICATO

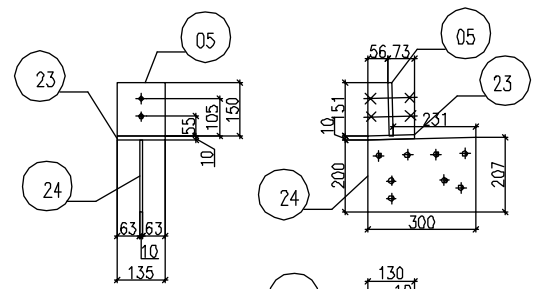


FORI PER BULLONI STANDARD

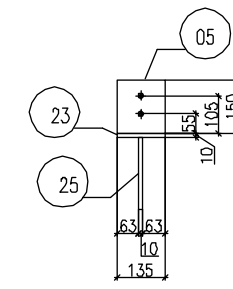
| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO |
|----------|----------|----------|----------|----------|----------|----------|----------|
| 11 | 11.5 | 13 | 13.5 | 15 | 15.5 | 17 | 17.5 |
| 12 | 12.5 | 14 | 14.5 | 16 | 16.5 | 18 | 18.5 |
| 13 | 13.5 | 15 | 15.5 | 17 | 17.5 | 19 | 19.5 |
| 14 | 14.5 | 16 | 16.5 | 18 | 18.5 | 20 | 20.5 |
| 15 | 15.5 | 17 | 17.5 | 19 | 19.5 | 21 | 21.5 |
| 16 | 16.5 | 18 | 18.5 | 20 | 20.5 | 22 | 22.5 |
| 17 | 17.5 | 19 | 19.5 | 21 | 21.5 | 23 | 23.5 |
| 18 | 18.5 | 20 | 20.5 | 22 | 22.5 | 24 | 24.5 |
| 19 | 19.5 | 21 | 21.5 | 23 | 23.5 | 25 | 25.5 |
| 20 | 20.5 | 22 | 22.5 | 24 | 24.5 | 26 | 26.5 |
| 21 | 21.5 | 23 | 23.5 | 25 | 25.5 | 27 | 27.5 |
| 22 | 22.5 | 24 | 24.5 | 26 | 26.5 | 28 | 28.5 |
| 23 | 23.5 | 25 | 25.5 | 27 | 27.5 | 29 | 29.5 |
| 24 | 24.5 | 26 | 26.5 | 28 | 28.5 | 30 | 30.5 |
| 25 | 25.5 | 27 | 27.5 | 29 | 29.5 | 31 | 31.5 |
| 26 | 26.5 | 28 | 28.5 | 30 | 30.5 | 32 | 32.5 |
| 27 | 27.5 | 29 | 29.5 | 31 | 31.5 | 33 | 33.5 |
| 28 | 28.5 | 30 | 30.5 | 32 | 32.5 | 34 | 34.5 |



SCHEMA DI ASSEMBLAGGIO IN OPERA



B13 n.1



B15 n.1

SIMBOLOGIA COLLEGAMENTI

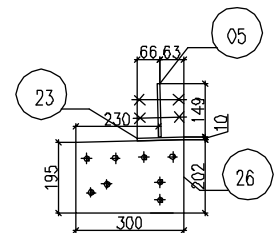
CORDONI DI SALDATURA TIPICI
(ECCETTO OVE DIVERSAMENTE SPECIFICATO)

S1 = S2
H = 0.7 * S2
SP = 0.5 * S2

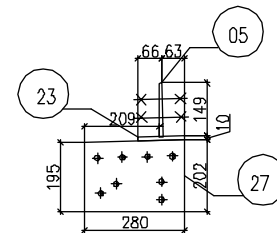
FORI PER BULLONI STANDARD

| SIMBOLO | | DIAM. BULL. | | NUMERO FORO | | COPPIA DI SERBATOIO | | SIMBOLO | | DIAM. BULL. | | NUMERO FORO | | COPPIA DI SERBATOIO | |
|---------|-----|-------------|-----|-------------|---|---------------------|---|---------|-----|-------------|-------|-------------|------|---------------------|---|
| * | + | + | + | + | + | + | + | + | * | + | + | + | + | + | + |
| Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø | Ø |
| ∅10 | ∅11 | ∅11.5 | — | — | — | — | — | — | ∅20 | ∅21 | ∅21.5 | 437 | 549 | — | — |
| ∅12 | ∅13 | ∅13.5 | 90 | 113 | — | — | — | — | ∅22 | ∅23 | ∅24 | 597 | 747 | — | — |
| ∅14 | ∅15 | ∅15.5 | 144 | 180 | — | — | — | — | ∅24 | ∅25 | ∅26 | 759 | 949 | — | — |
| ∅16 | ∅17 | ∅17.5 | 225 | 281 | — | — | — | — | ∅27 | ∅28 | ∅29 | 1110 | 1388 | — | — |
| ∅18 | ∅19 | ∅19.5 | 309 | 387 | — | — | — | — | ∅30 | ∅31 | ∅32 | 1508 | 1885 | — | — |

| Pezzi | Sezione | Lungh. | Peso/m | Pos. | Marche | Numero posizioni per marche | P. unitario | P. totale |
|-------|---------------|--------|--------|------|--------|-----------------------------|-------------|-----------|
| 1 | | | | | B13 | | 8 | 8 |
| 1 | | | | | B15 | | 8 | 8 |
| 1 | | | | | B17 | | 8 | 8 |
| 1 | | | | | B19 | | 7 | 7 |
| 1 | L 60x6 | 6610 | 5.4 | | B01 | | 36 | 36 |
| 1 | L 60x6 | 6610 | 5.4 | | B02 | | 36 | 36 |
| 1 | L 60x6 | 5343 | 5.4 | | B03 | | 29 | 29 |
| 1 | L 60x6 | 5343 | 5.4 | | B04 | | 29 | 29 |
| 2 | L 60x6 | 1272 | 5.4 | | B05 | | 7 | 14 |
| 2 | L 60x6 | 1201 | 5.4 | | B06 | | 7 | 13 |
| 1 | L 60x6 | 1288 | 5.4 | | B07 | | 7 | 7 |
| 1 | L 60x6 | 1307 | 5.4 | | B08 | | 7 | 7 |
| 2 | L 60x6 | 1382 | 5.4 | | B09 | | 7 | 15 |
| 2 | L 60x6 | 1393 | 5.4 | | B10 | | 8 | 15 |
| 1 | Piatto 230x10 | 189 | 18.1 | | B11 | | 3 | 3 |
| 1 | Piatto 220x10 | 370 | 17.3 | | B12 | | 6 | 6 |
| 1 | Piatto 210x10 | 520 | 16.5 | | B14 | | 9 | 9 |
| 1 | Piatto 206x10 | 470 | 16.2 | | B16 | | 8 | 8 |
| 1 | Piatto 220x10 | 260 | 17.3 | | B18 | | 4 | 4 |
| 5 | Piatto 60x10 | 120 | 4.7 | | B20 | | 1 | 3 |
| 2 | L 60x6 | 464 | 5.4 | | B21 | | 3 | 5 |
| 2 | L 60x6 | 602 | 5.4 | | B22 | | 3 | 7 |
| 2 | L 60x6 | 728 | 5.4 | | B23 | | 4 | 8 |
| 2 | L 60x6 | 853 | 5.4 | | B24 | | 5 | 9 |
| | | | | | | | TOTALE | 293 |
| 4 | Piatto 150x10 | 135 | 11.8 | 05 | B13 | 1 1 1 1 | 2 | 6 |
| 4 | Piatto 130x10 | 135 | 10.2 | 23 | B15 | 1 1 1 1 | 1 | 6 |
| 1 | Piatto 300x10 | 207 | 23.6 | 24 | B17 | 1 | 5 | 5 |
| 1 | Piatto 280x10 | 207 | 22.0 | 25 | B19 | 1 | 5 | 5 |
| 1 | Piatto 300x10 | 202 | 23.6 | 26 | | 1 | 5 | 5 |
| 1 | Piatto 280x10 | 202 | 22.0 | 27 | | 1 | 4 | 4 |



B17 n.1



B19 n.1

| REVIS. | DATA | DESCRIZIONE | ESEGUITO | VERIFICATO | APPROVATO |
|--------|----------|-------------|----------|------------|-----------|
| 0 | 21/06/02 | EMISSIONE | | | U.T.E. |

LENZIONI COSTRUZIONI METALLICHE s.r.l. - Lucca

CLIENTE: SIG. RIETER

DESCRIZIONE: AMPLIAMENTO STRADA DI ACCESSO AD ABITAZIONE PRIVATA

TITOLO: TRAVE RETICOLARE TIPO "B"

La proprietà di questo disegno è tutelata a termini di legge. E' vietato quindi usarlo, riprodurlo, modificarlo, renderlo noto a terzi.

DIS. N° 233-04

DATA 21/06/02

SCALA 1:15

DESEGNO TECHNE'

VISTO U.T.E.



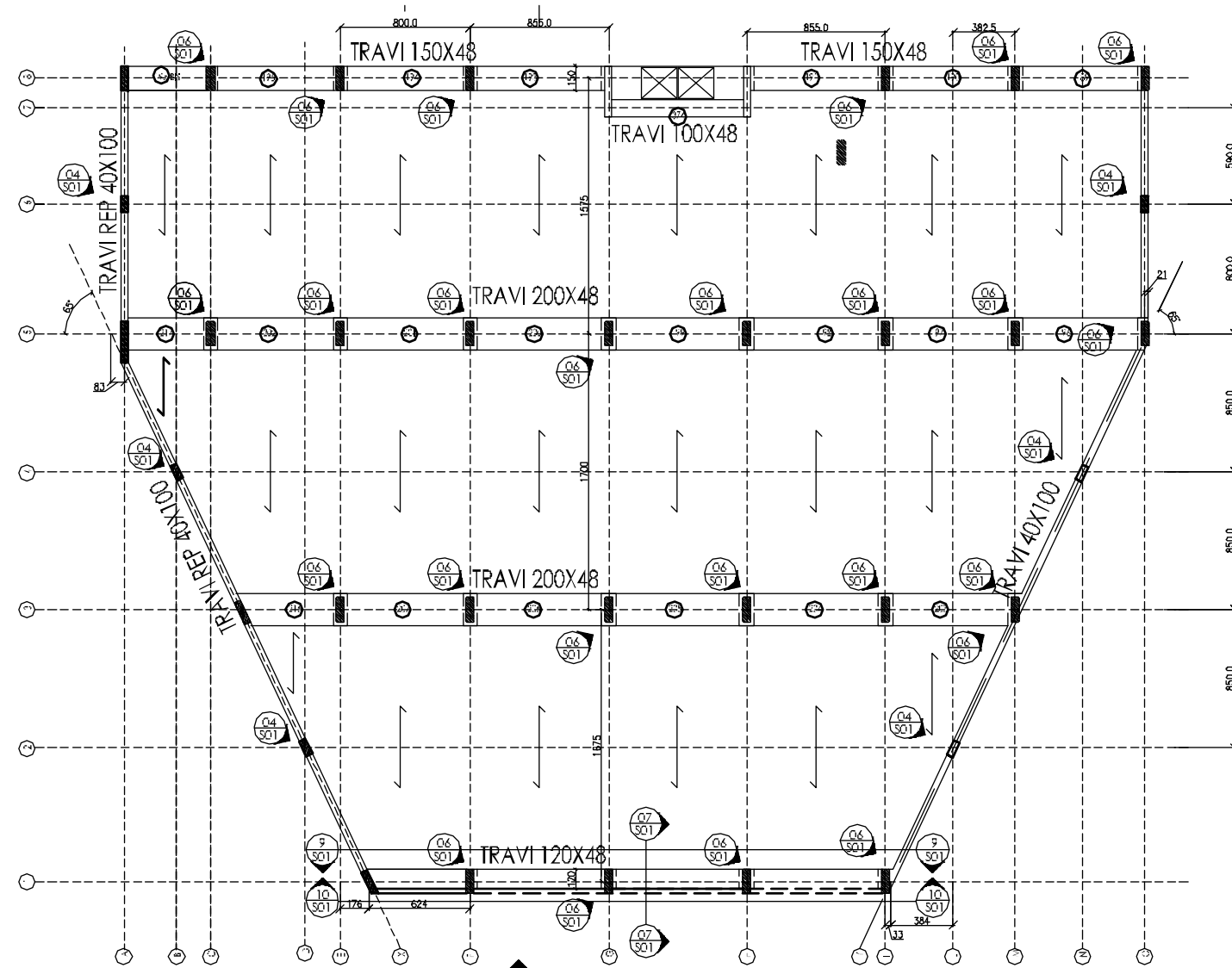
SHOPPING CENTRE IN MONTAIONE (FI)

DESCRIPTION: DETAILED DESIGN OF A 2300 SQUARE METRE SHOPPING CENTRE WITH MEZZANINE AND BASEMENT

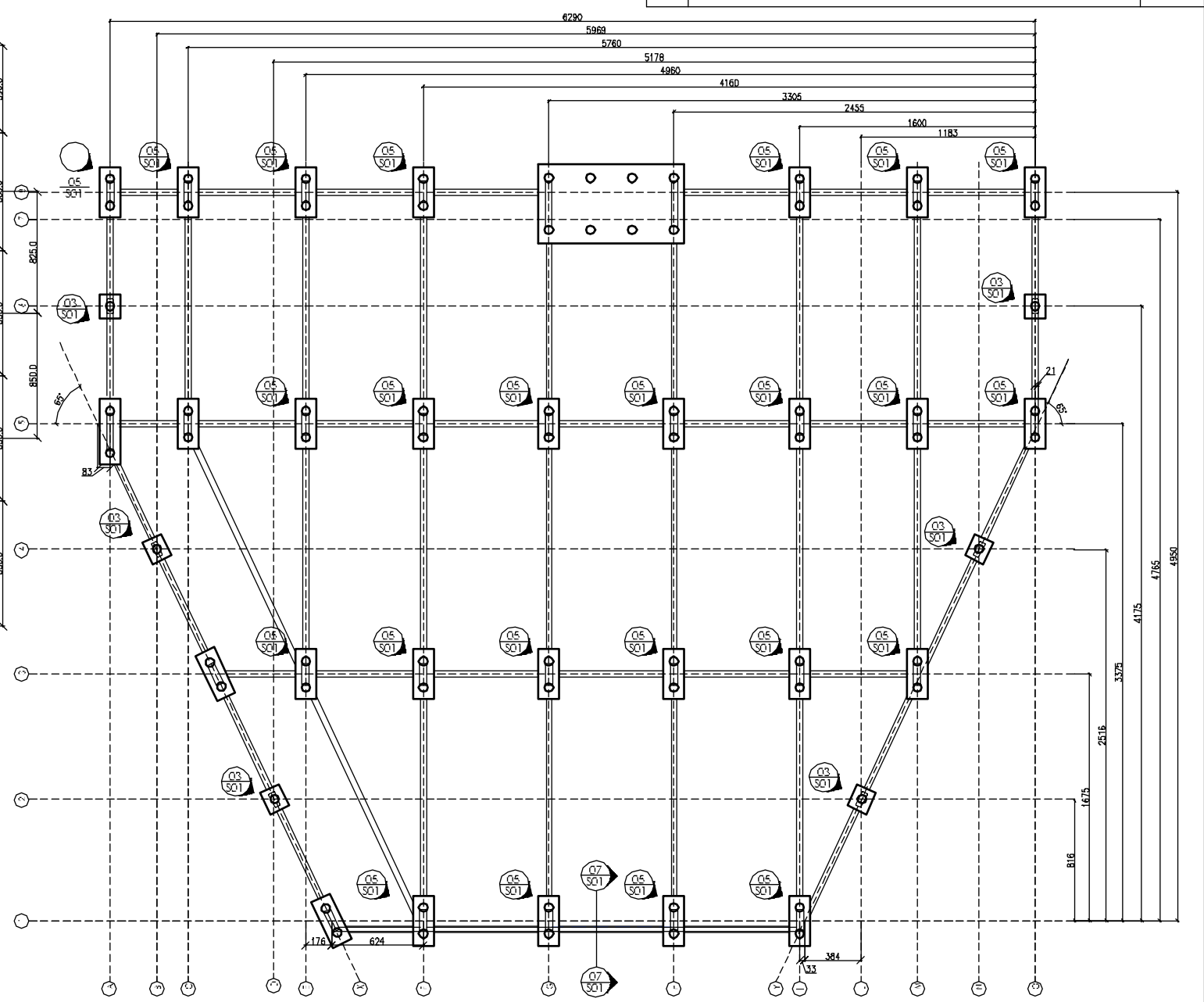
CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

STATUS: BUILT

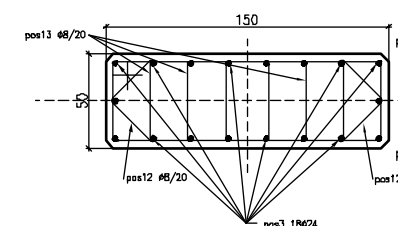
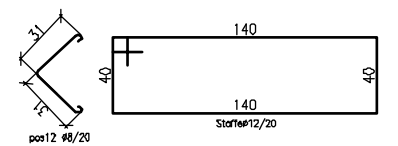
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|-----|-----------|-----|
| REV | NOI | REV |
| RO | Emissione | REV |



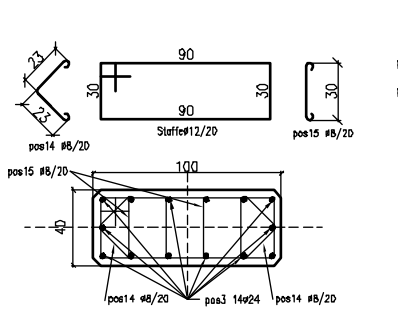
02
S01
orditura travi
Scala 1:200



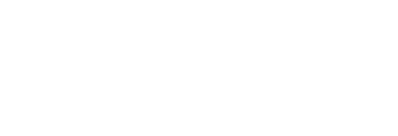
01
S01
PIANTA FONDAZIONI
Scala 1:100



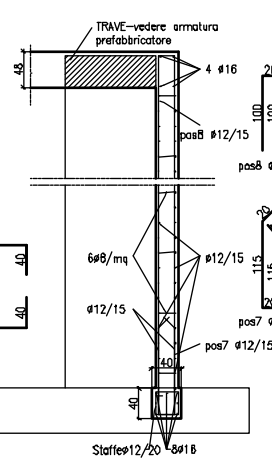
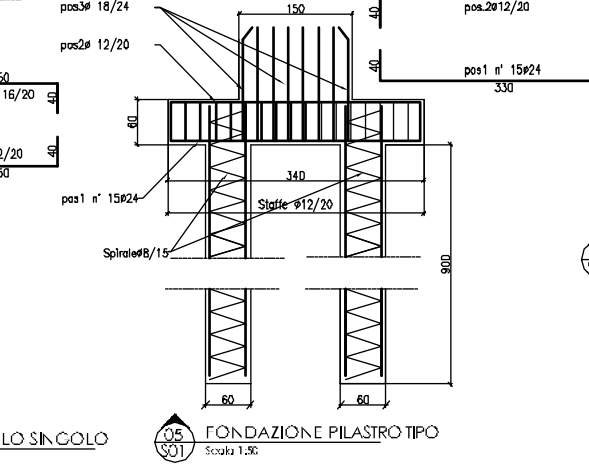
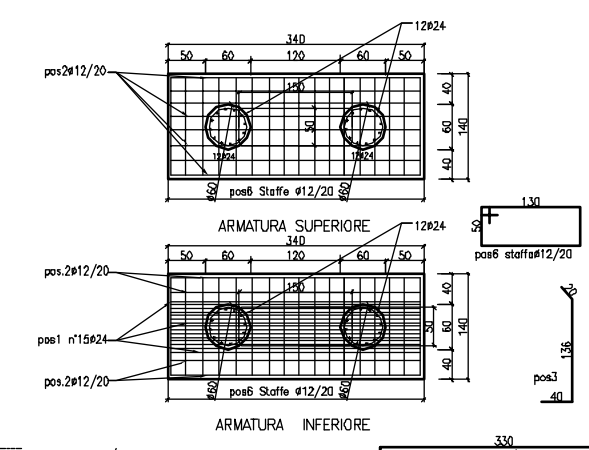
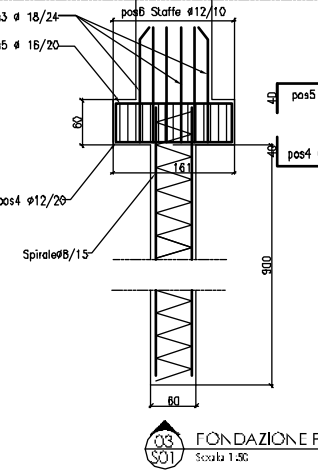
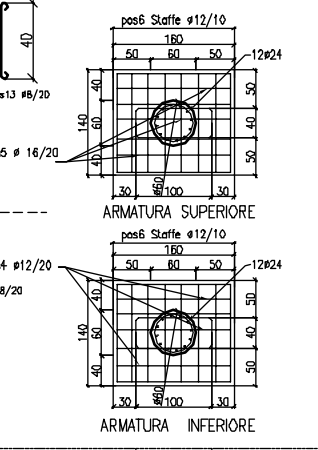
06
S01
SEZIONE PILASTRO 150X50
Scala 1:20



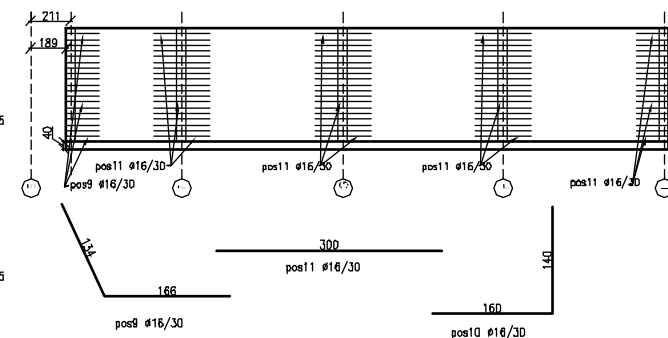
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S01
SEZIONE PILASTRO 100X40
Scala 1:20



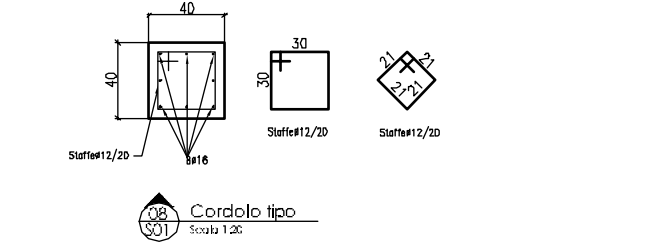
03
S01
FONDAZIONE PALO SINGOLO
Scala 1:20



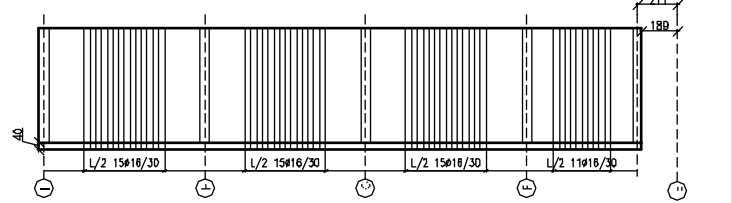
07
S01
Sezione tipo del muro filo 1
Scala 1:20



10
S01
Armatura integrativa faccia esterna del muro filo 1
Scala 1:20



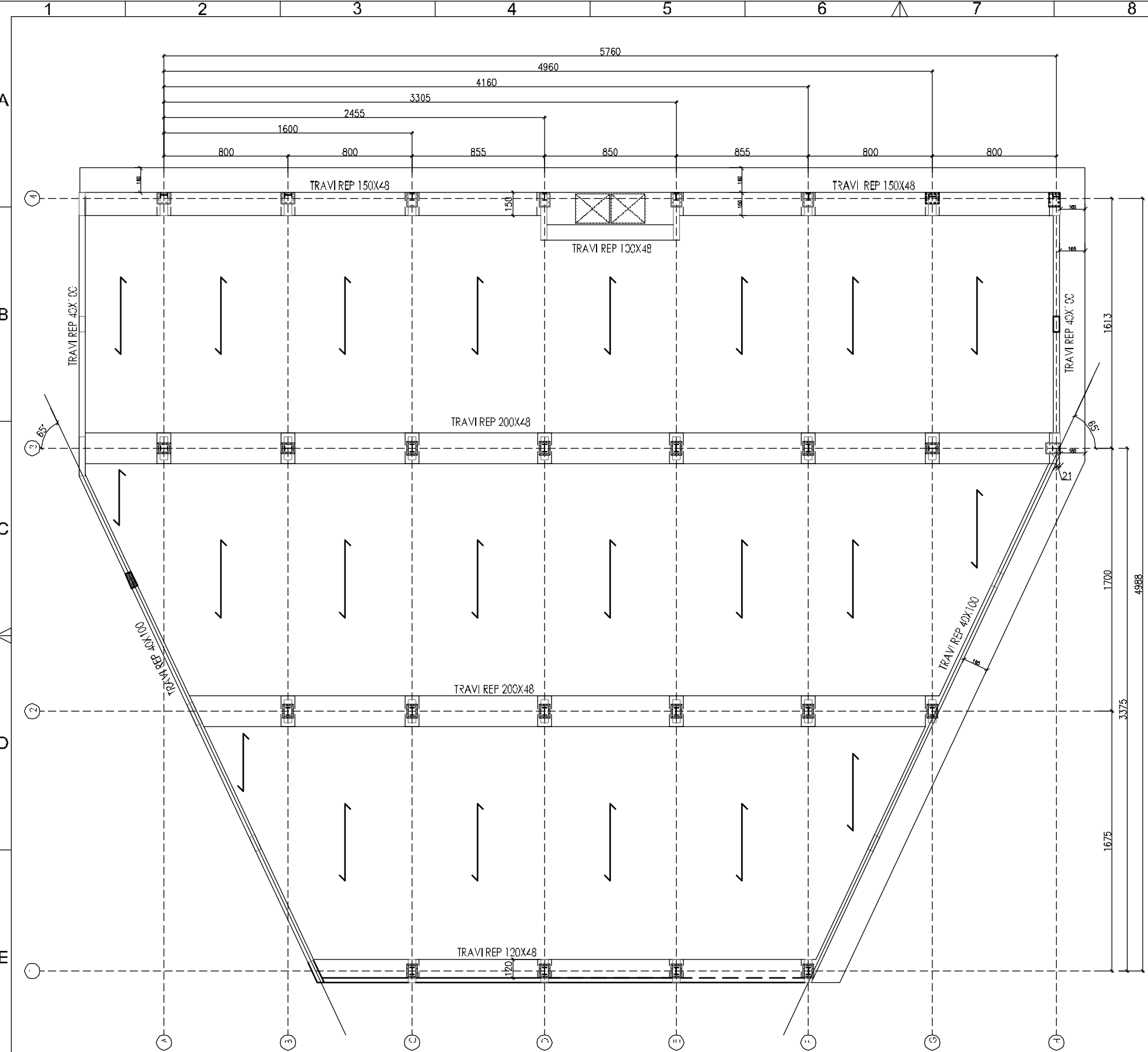
08
S01
Cordolo tipo
Scala 1:20



09
S01
Armatura integrativa faccia interna muro filo 1
Scala 1:20

| | | |
|--|--|--|
| <p>000-01</p> <p>S01</p> <p>REV VARIE</p> | <p>000-01</p> <p>S01</p> <p>REV VARIE</p> | <p>000-01</p> <p>S01</p> <p>REV VARIE</p> |
| <p>000-01</p> <p>S01</p> <p>REV VARIE</p> | <p>000-01</p> <p>S01</p> <p>REV VARIE</p> | <p>000-01</p> <p>S01</p> <p>REV VARIE</p> |

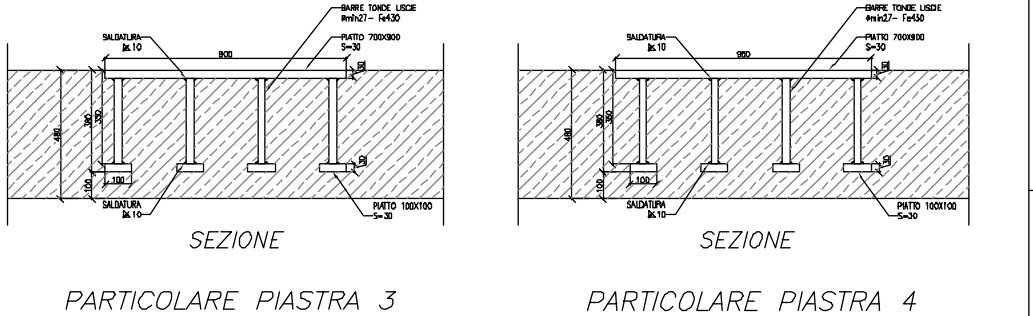
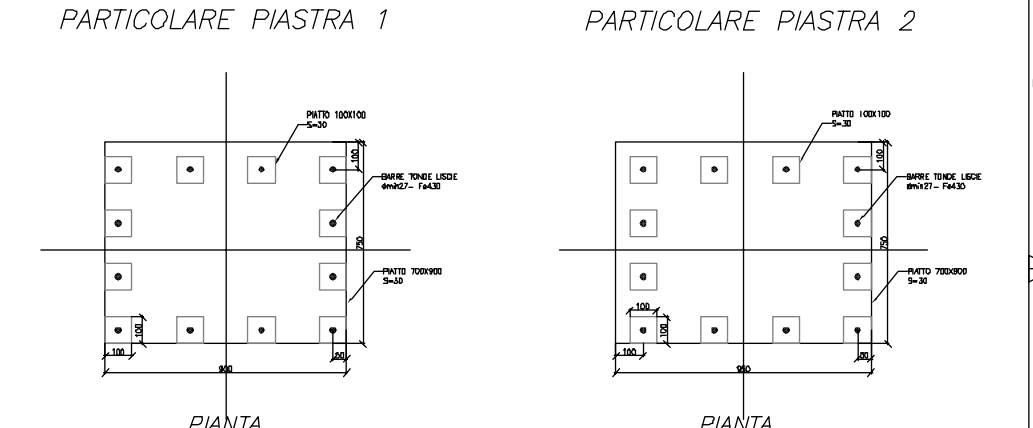
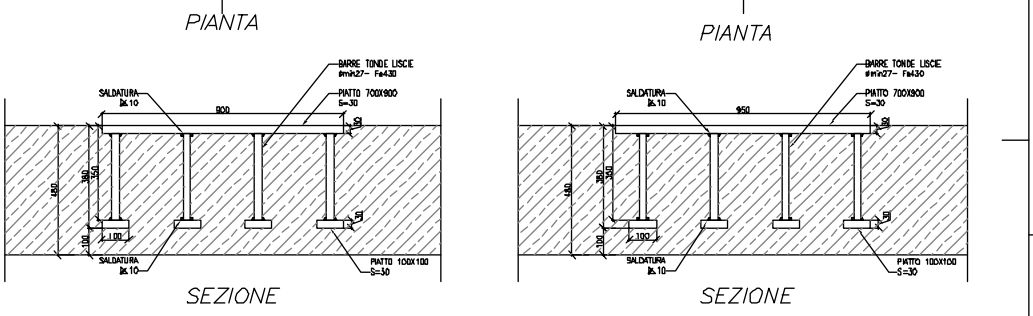
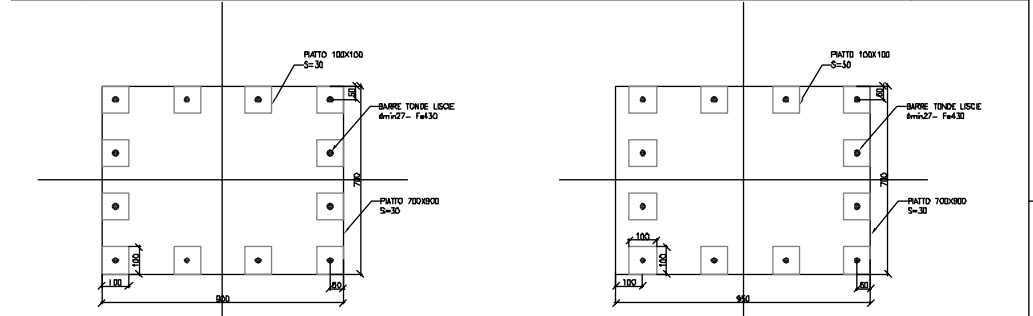
Montatore: **CARPENTERIA FONDAZIONI E PILASTRI**
 Impresa: **Impresa FONDELLI Cav. ORESTE**
 Progetto: **PROGETTO DI EDIFICIO INDUSTRIALE**
 Studio: **studio TECHNE**
 Data: **6/02/03**
 Codice: **D069-02S01-0**



01
S01 orditura travi
Scala 1:200

NUMERO TOTALE PIASTRE: 26
 -n°17 tipo 1
 -n°5 tipo 2 (piastre 3-4-5-6-16)
 -n°3 tipo 3 (piastre 1-2-7)
 -n°1 tipo 4 (piastra 8)

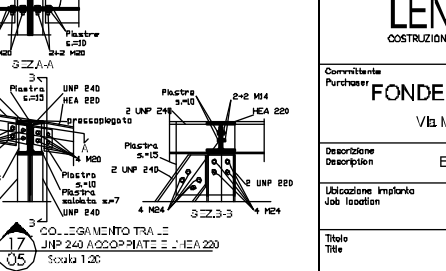
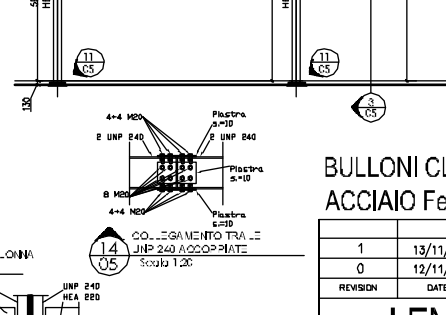
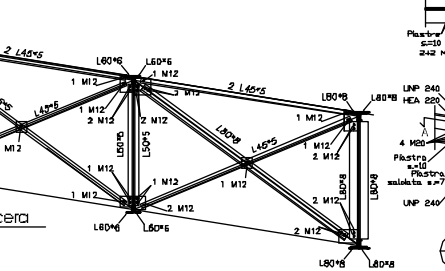
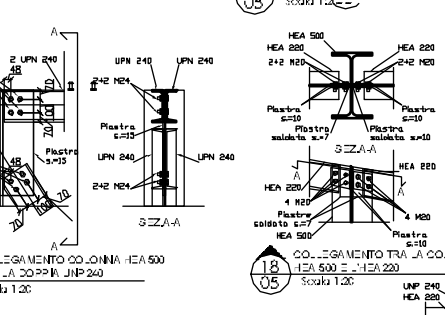
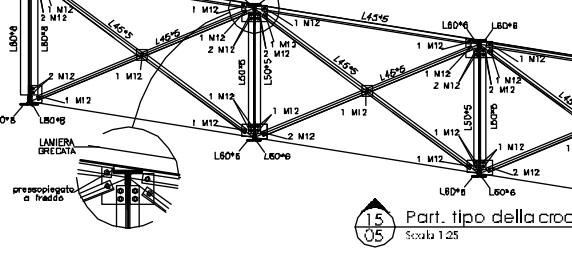
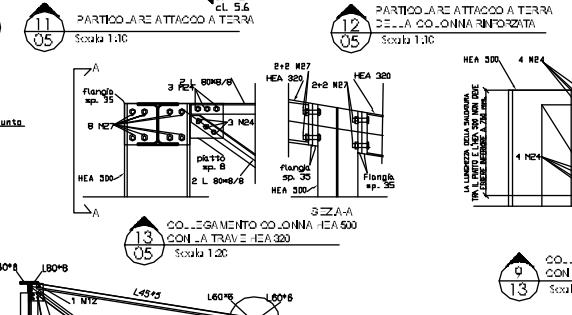
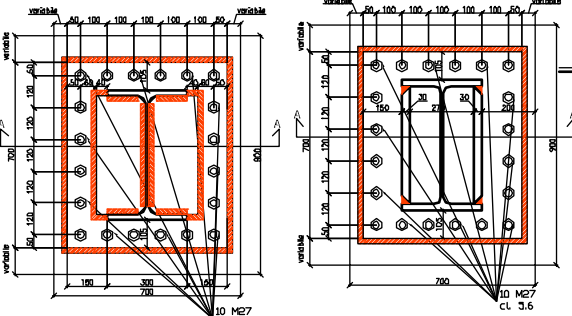
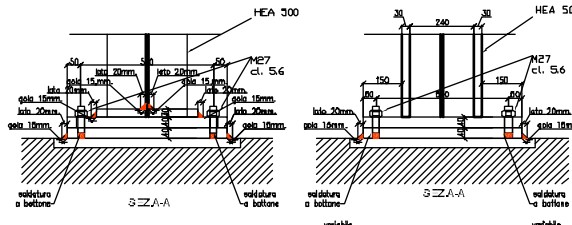
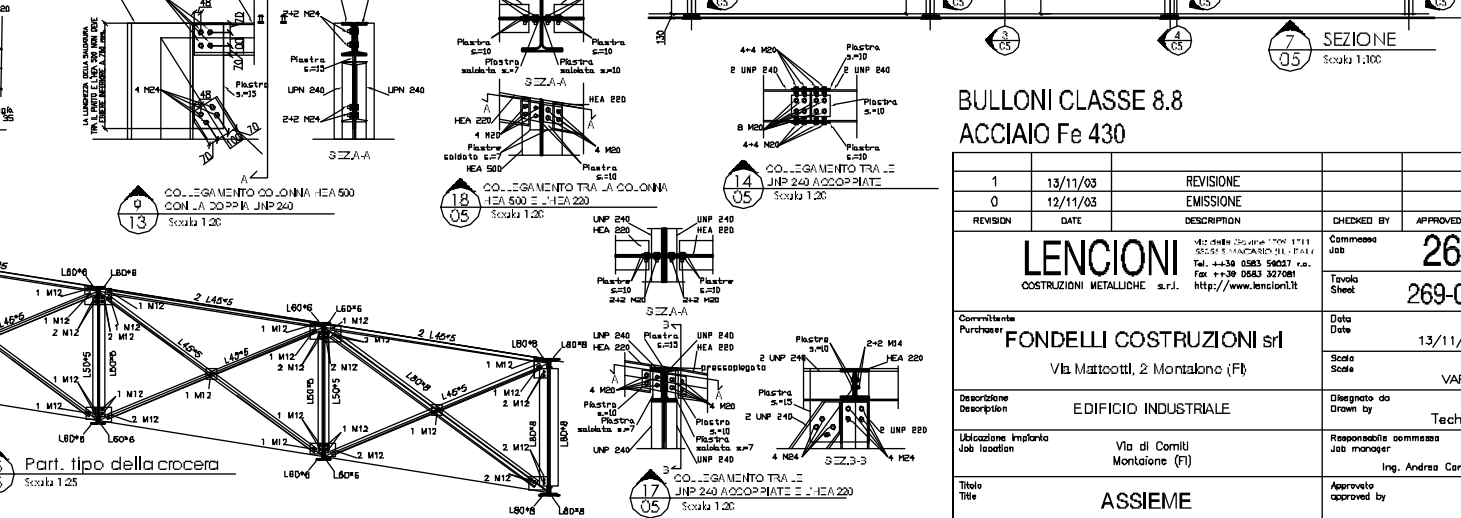
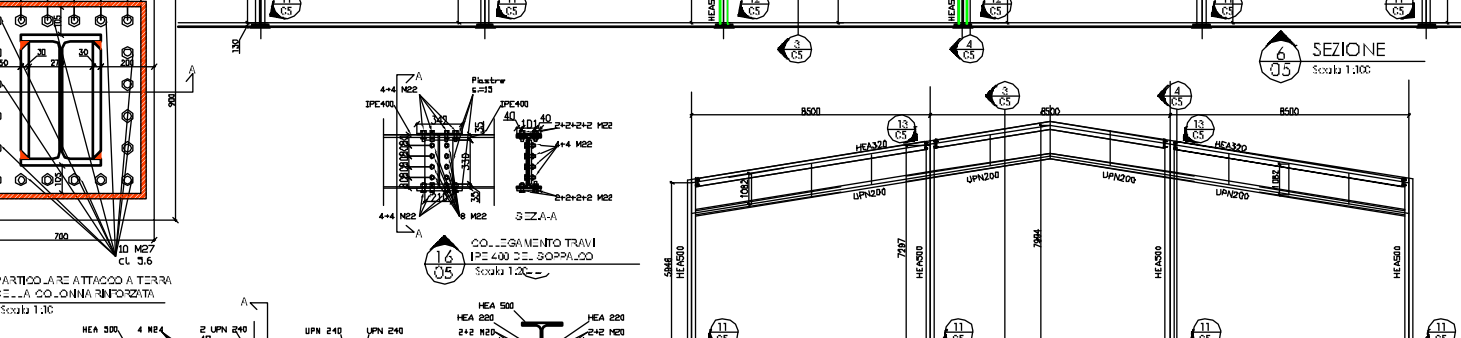
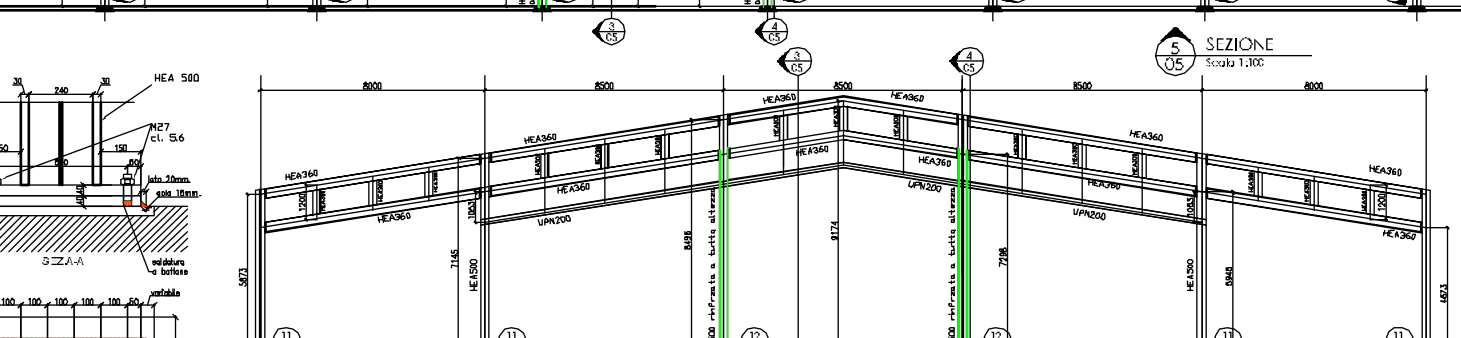
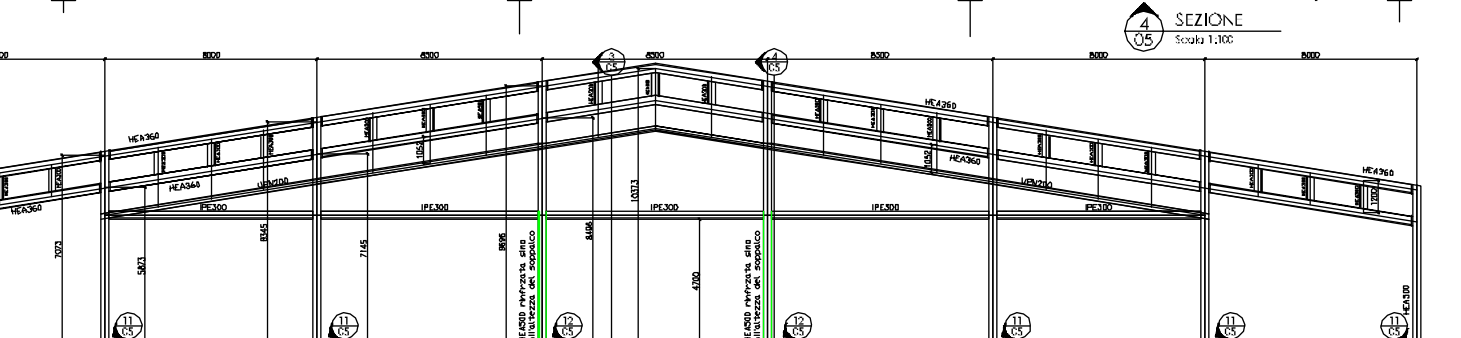
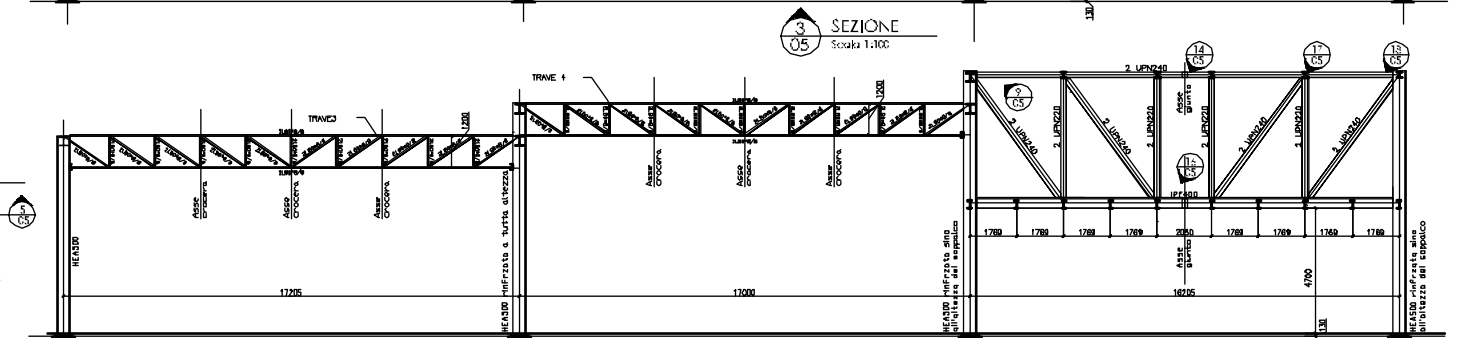
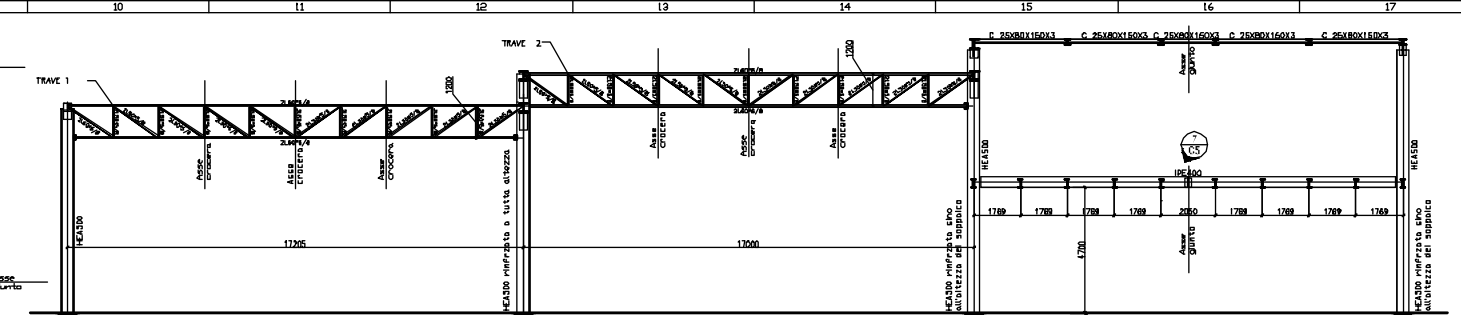
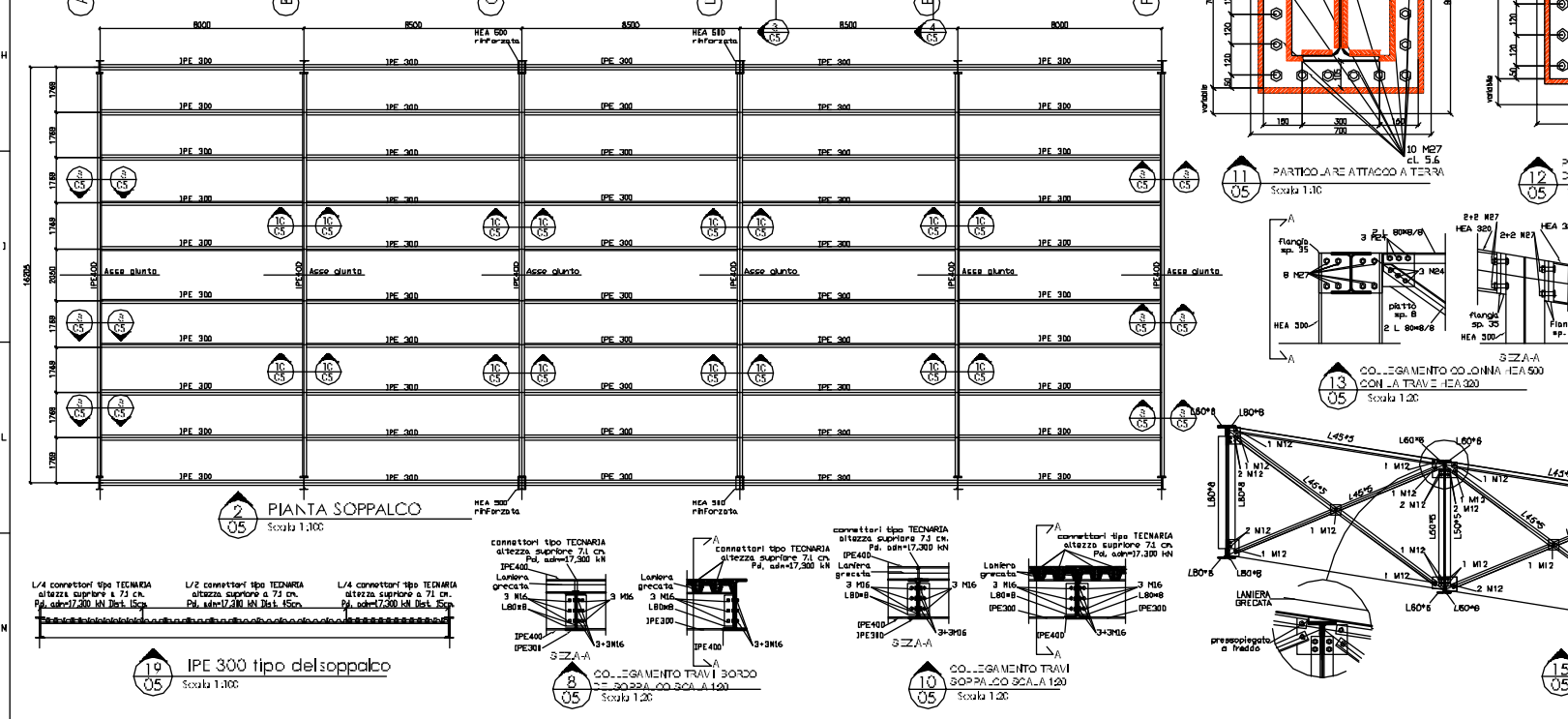
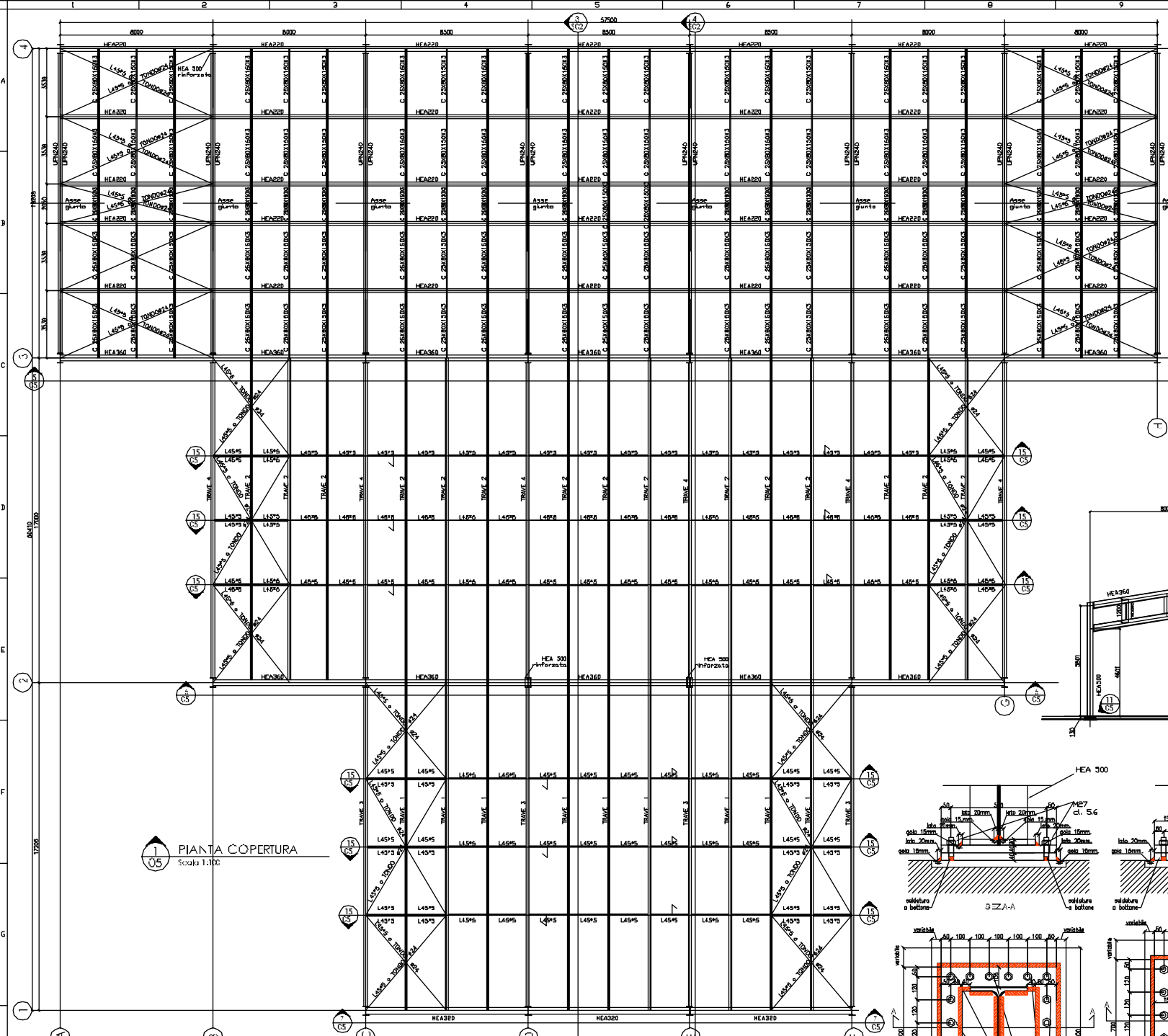
| | | |
|--------|-----------|------|
| Rev N° | NOTE | Data |
| R0 | Emissione | |



02
S01 PARTICOLARE PIASTRE
Scala 1:20

| | | |
|--------------------------------------|---|--|
| Livello Progetto ESECUTIVO | Oggetto Tavola pianta fili fissi - particolare piastre | Commessa 069-03 |
| Comune di MONTAIONE (FI) | Committente Lencioni Costruzioni Metalliche | Tavola S01 |
| Quantità tavole 01 | Oggetto Commessa PROGETTAZIONE STRUTTURA METALLICA PER FABBRICATO COMMERCIALE | Revis. r0 Scala VARIE |
| Data 02/10/03 | Codice File D069-02S03r0 | Disegnato da Ing. F. Guidotti |
| | | Responsabile commessa Ing. P. Princi |
| | | Approvato da Ing. A. Puccini |

La stampa di questo disegno è vietata a terzi di legge. E' vietato quindi l'uso, il ricambio, il ricalco, il rendering, l'uso a terzi.



BULLONI CLASSE 8.8 ACCIAIO Fe 430

| REVISIONE | DATE | REVISIONE | EMISSIONE | CHECKED BY | APPROVED BY |
|-----------|----------|-----------|-----------|------------|-------------|
| 1 | 13/11/03 | | | | |
| 0 | 12/11/03 | | | | |

LENZIONI
COSTRUZIONI METALLICHE s.r.l.
Via Matcootti, 2 Montalone (FR)

Committente: **FONDELLI COSTRUZIONI srl**
Descrizione: **EDIFICIO INDUSTRIALE**
Localizzazione: **Via di Corni Montalone (FR)**

Scale: **269-05**
Date: **13/11/03**
Drawn by: **VARIE**
Responsible: **Ing. Andrea Carpi**
Approved by: **ASSIEME**



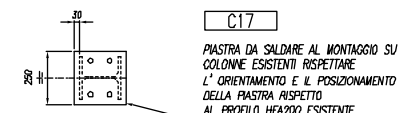
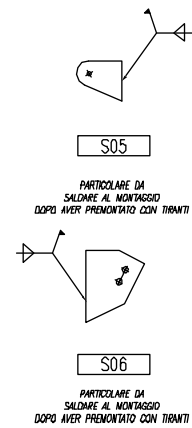
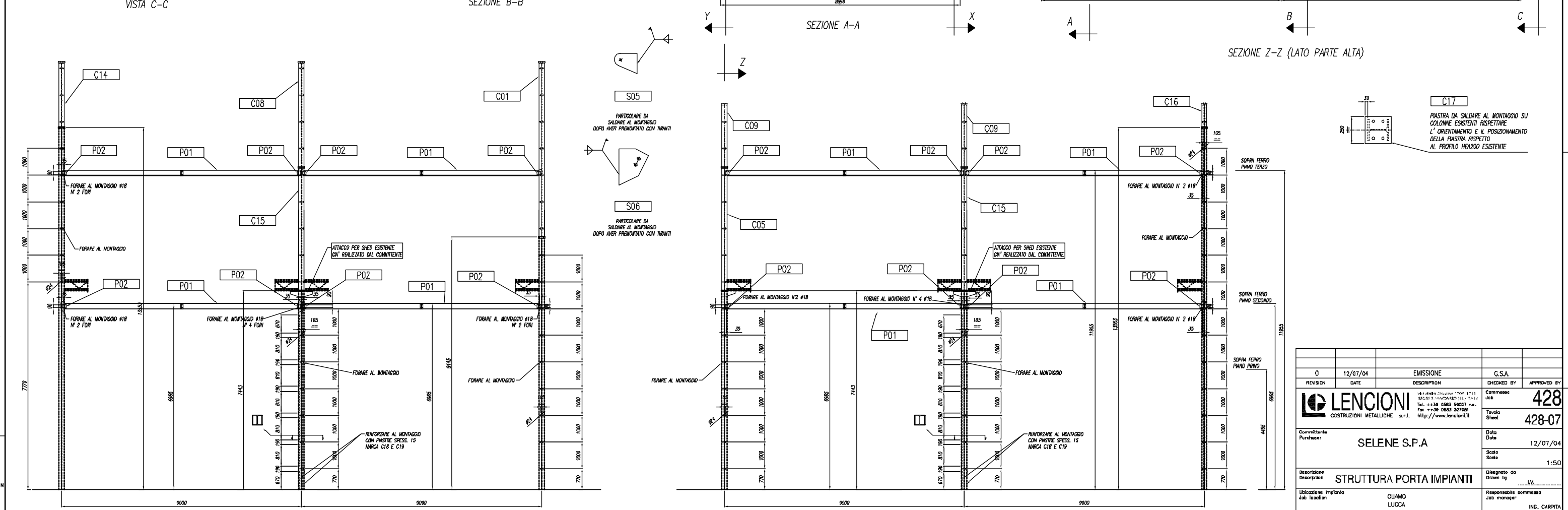
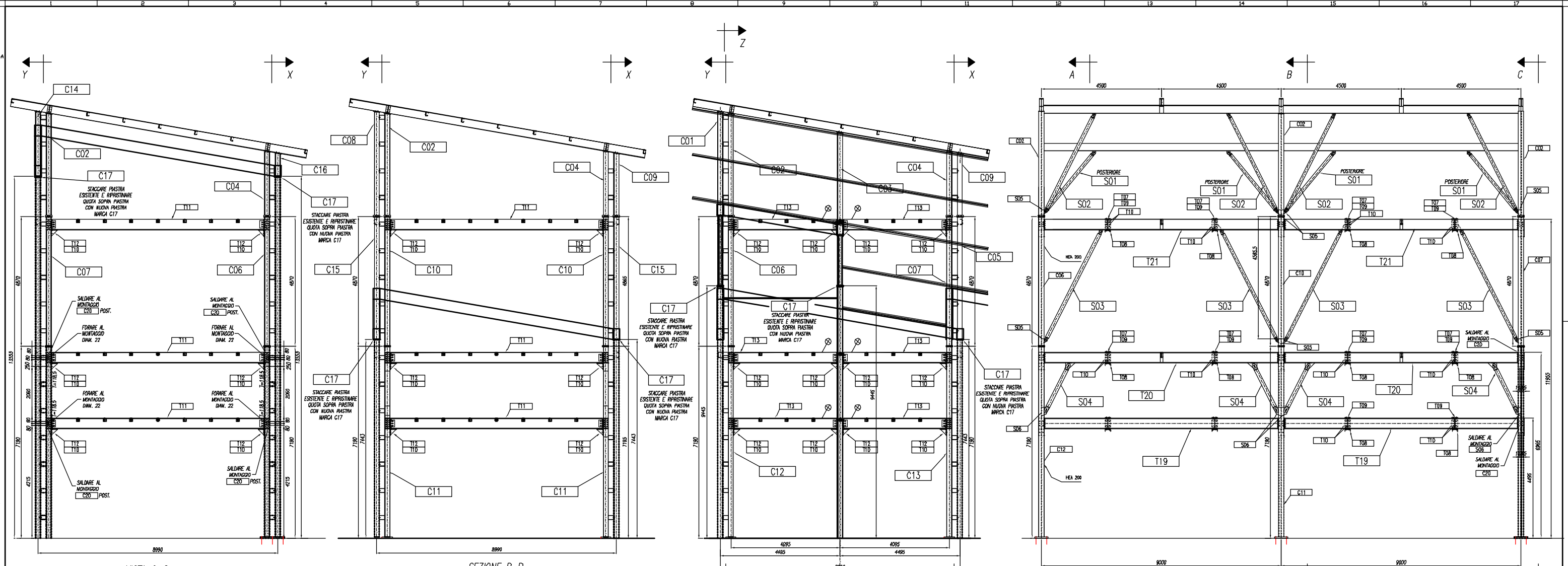


INDUSTRIAL BUILDING EXTENSION

DESCRIPTION: DETAILED DESIGN OF A STEEL STRUCTURE FOR THE EXTENSION OF AN INDUSTRIAL BUILDING IN VICOPELAGO (LUCCA). THE STRUCTURAL DESIGN INCLUDES THE ADDITION OF A NEW STRUCTURAL FRAME TO SUPPORT NEW MACHINERY AND THE STRENGTHENING OF THE EXISTING.

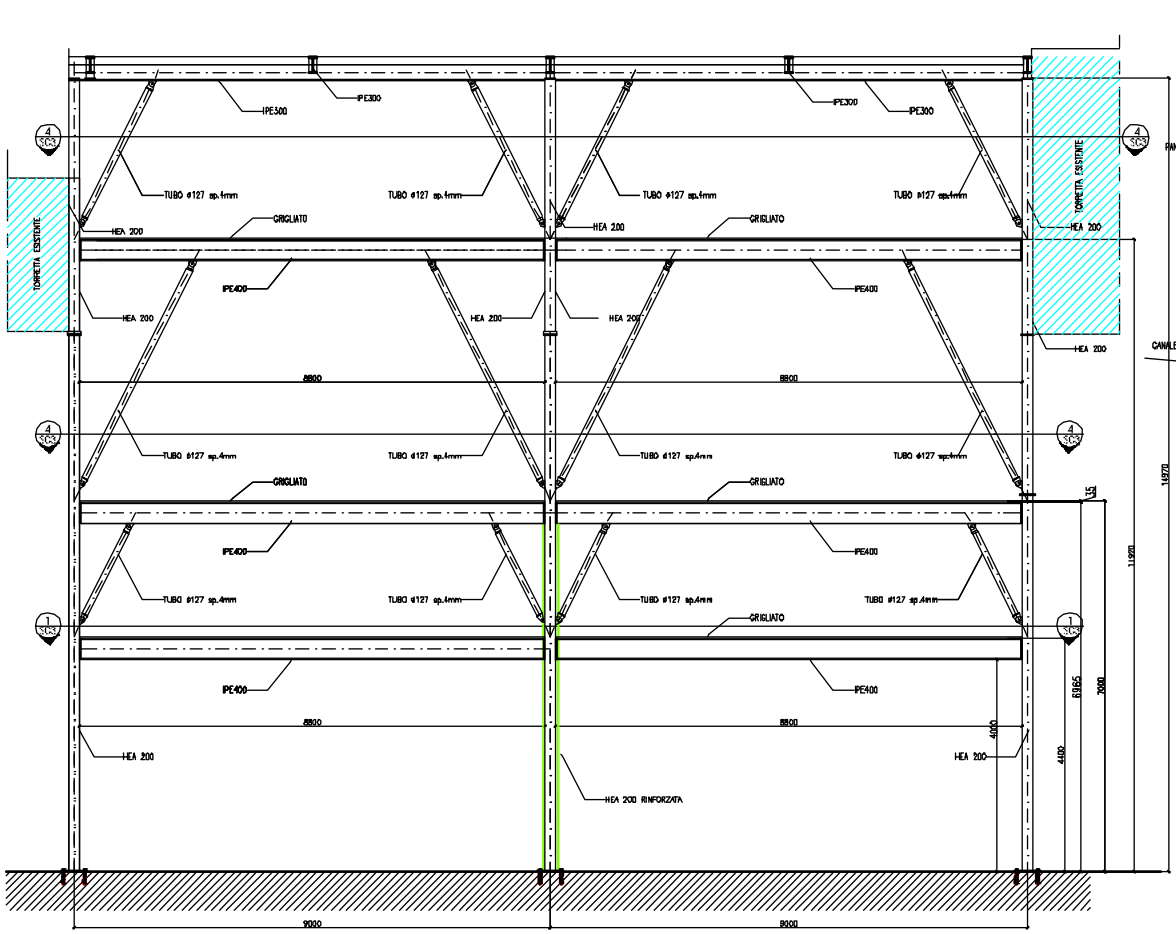
CLIENT: SELENE S.P.A.

STATUS: BUILT

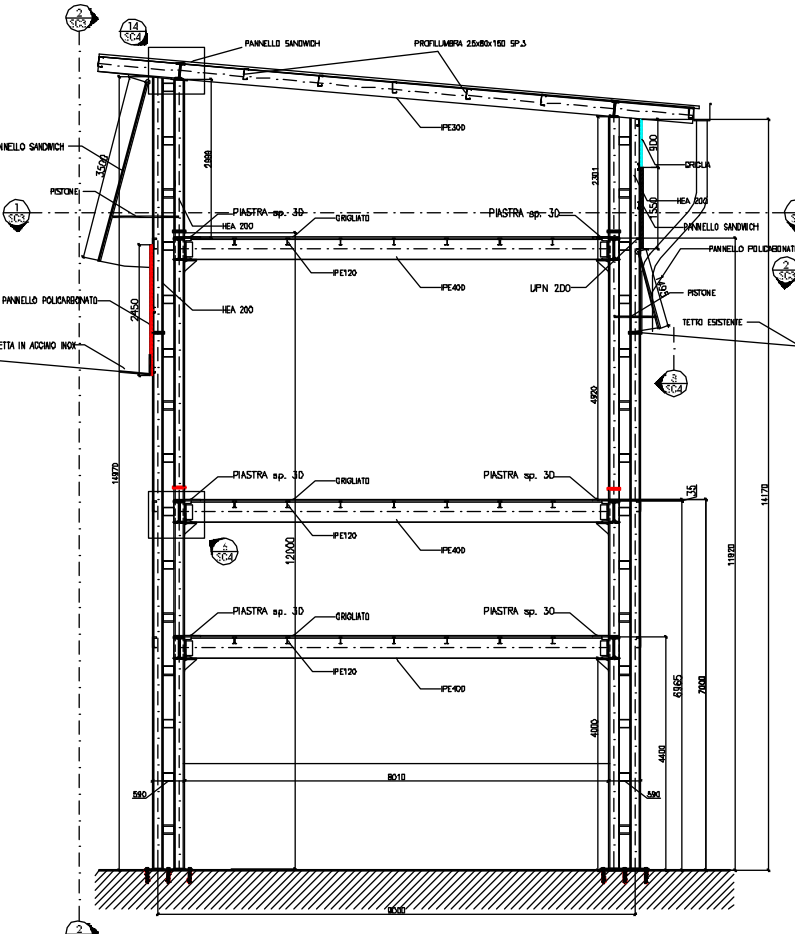


| | | | | | | |
|------------------------|--------------------------|----------|-----------|-----------------------|--------------|-------------|
| REVISIONI | 0 | 12/07/04 | EMISSIONE | G.S.A. | CHECKED BY | APPROVED BY |
| DESCRIPTION | STRUTTURA PORTA IMPIANTI | | | Commissario Job | 428 | |
| TECNICO | SELENE S.P.A. | | | Tecnico Sheet | 428-07 | |
| COMPRATTORE | SELENE S.P.A. | | | Data Date | 12/07/04 | |
| DESCRIZIONE | STRUTTURA PORTA IMPIANTI | | | Scala | 1:50 | |
| UTILIZZAZIONE IMPIANTO | GUAMO LUCCA | | | Responsabile commessa | ING. CARPITA | |
| TITOLO | ASSIEME ALZATI | | | Approvato | approved by | |

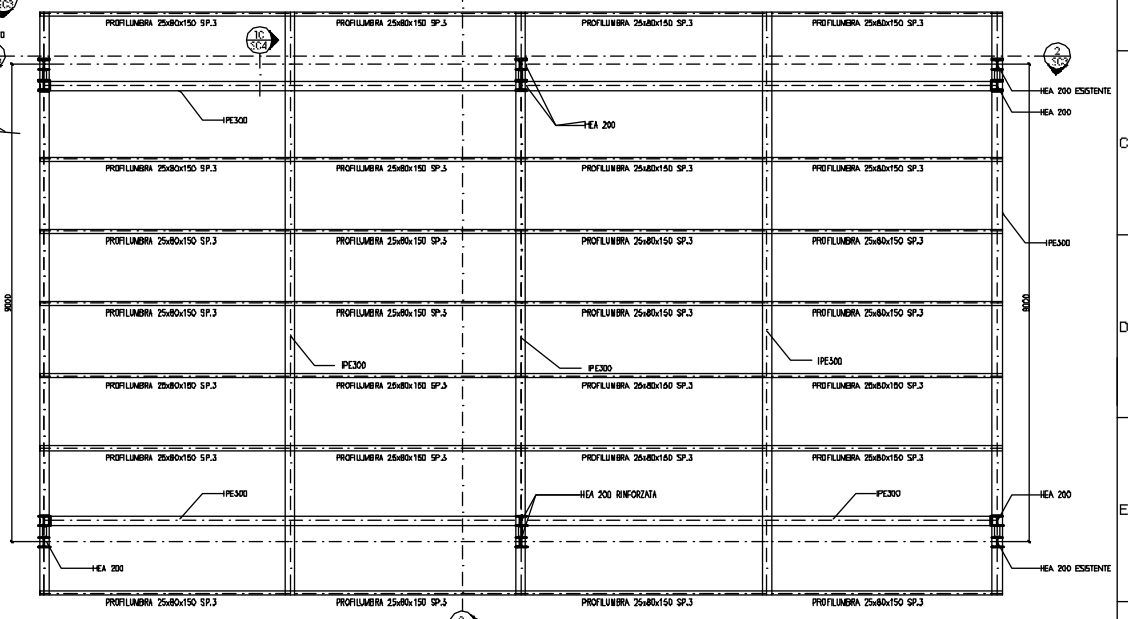
| | | |
|--------|----------|-----|
| Rev. 1 | 15/04/23 | Ed. |
| Rev. 2 | 22/05/24 | Ed. |
| Rev. 3 | 22/05/24 | Ed. |



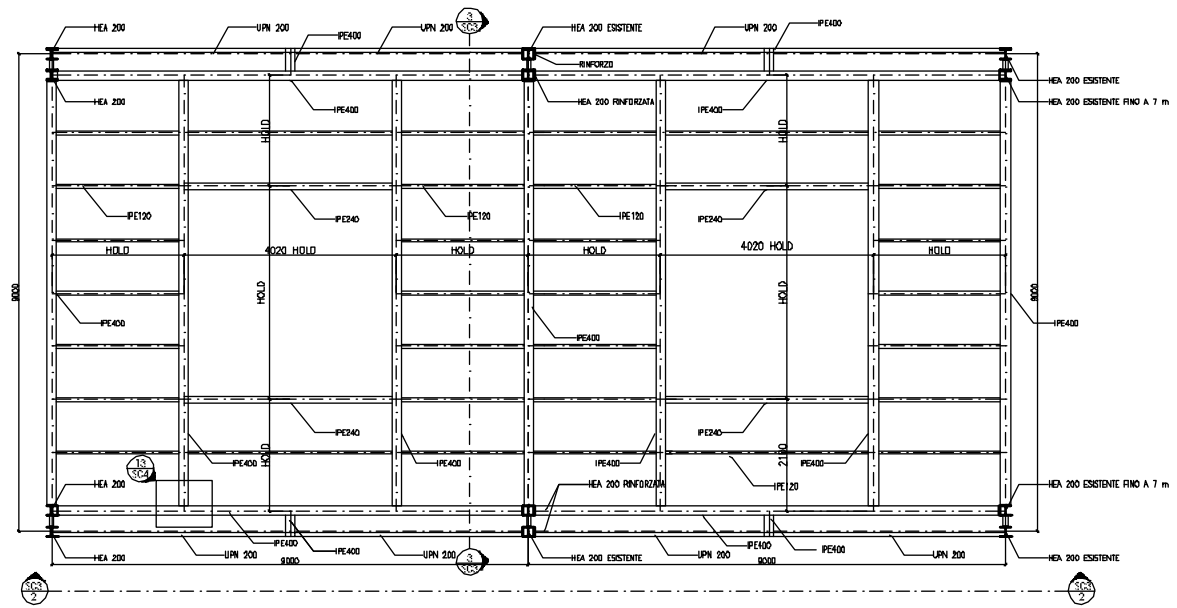
2 VISTA LONGITUDINALE
Scala 1:50



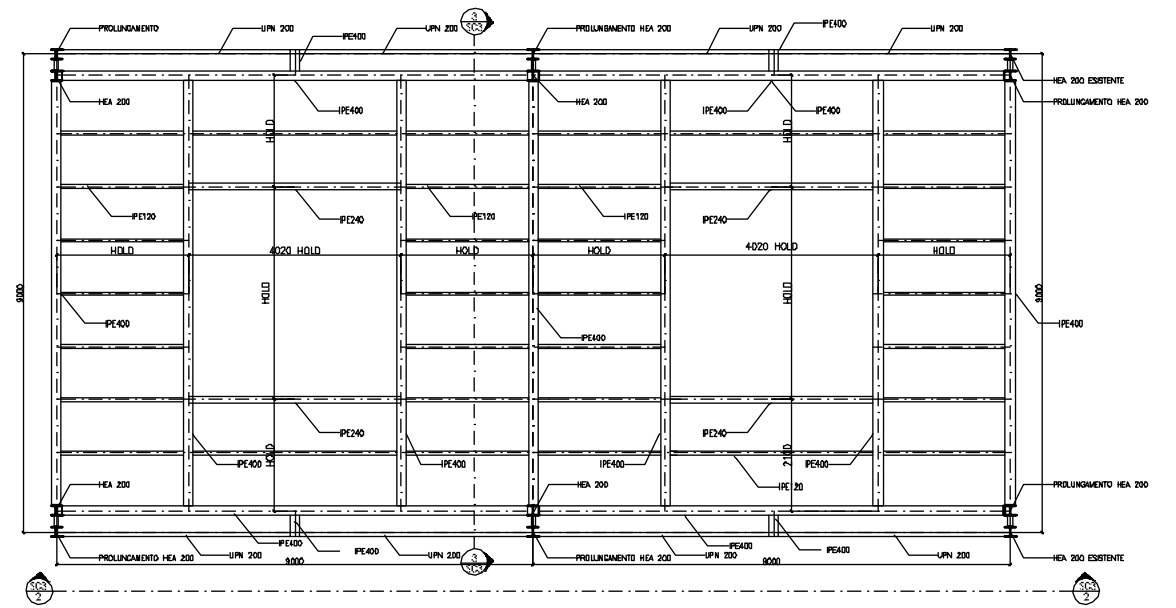
3 SEZIONE TRASVERSALE
Scala 1:50



5 PIANTE COPERTURA
Scala 1:50



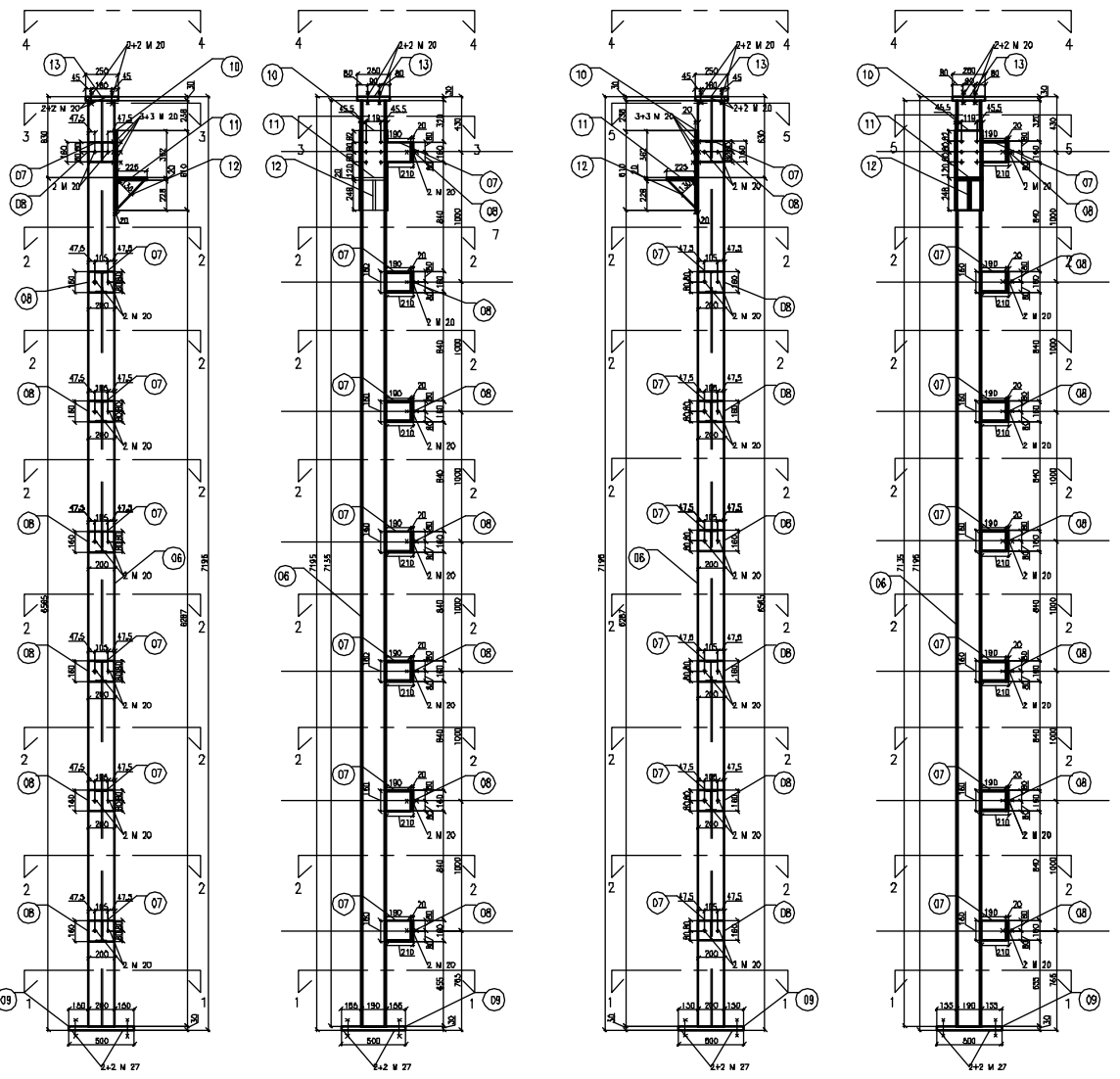
1 PIANTE PIANO PRIMO
Scala 1:50



4 PIANTE PIANI II E III
Scala 1:50

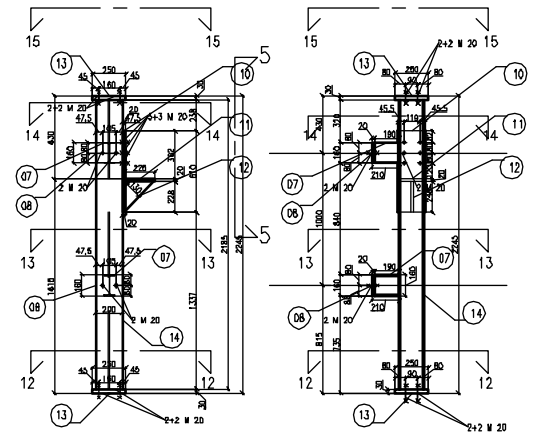
| MATERIALI | SOVRACCARICHI ACCIDENTALI | Simbologia Collegamenti |
|----------------|---|-----------------------------|
| Acciaio S235JR | Q _{acc} = 0,50 kN/m ² | CORDONI DI SALDATURA TIPICI |
| Acciaio S275JR | Q _{acc} = 0,50 kN/m ² | PER BULLONI |
| Acciaio S355JR | Q _{acc} = 0,50 kN/m ² | |
| Acciaio S460NL | Q _{acc} = 0,50 kN/m ² | |
| Acciaio S550ML | Q _{acc} = 0,50 kN/m ² | |

| | | |
|---|--|--------------------------------------|
| <p>15/04/23</p> <p>PRELIMINARE</p> <p>JUCA</p> <p>04</p> <p>23/05/24</p> <p>3380-07-03/03</p> | <p>090-02</p> <p>SELENE S.P.A.</p> <p>AMPLIAMENTO DI UN EDIFICIO INDUSTRIALE</p> <p>1:50</p> <p>SELENE</p> | <p>090-02</p> <p>S03</p> <p>1:50</p> |
|---|--|--------------------------------------|



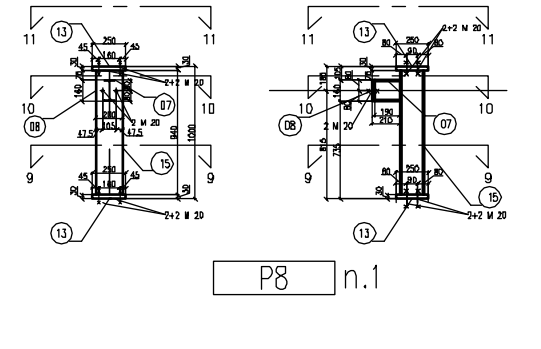
P6 n.2

P10 n.1

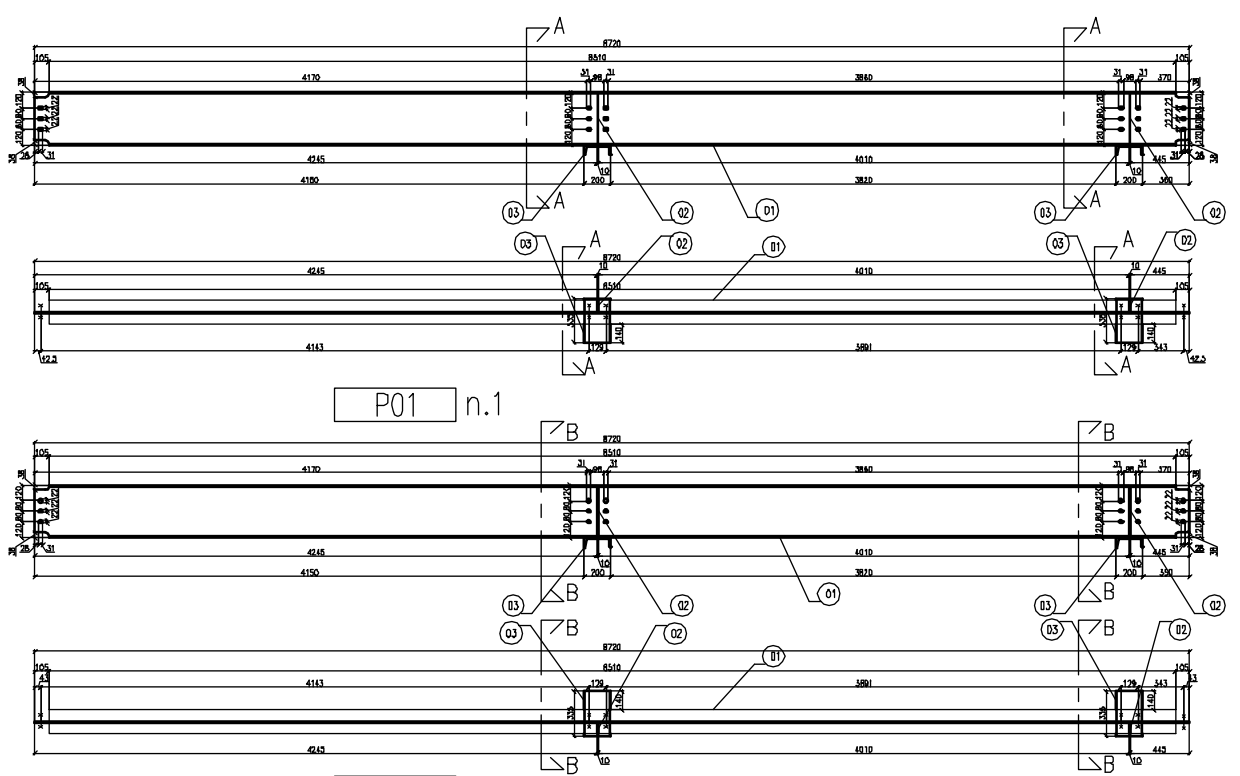


P7 n.1

P8 n.1

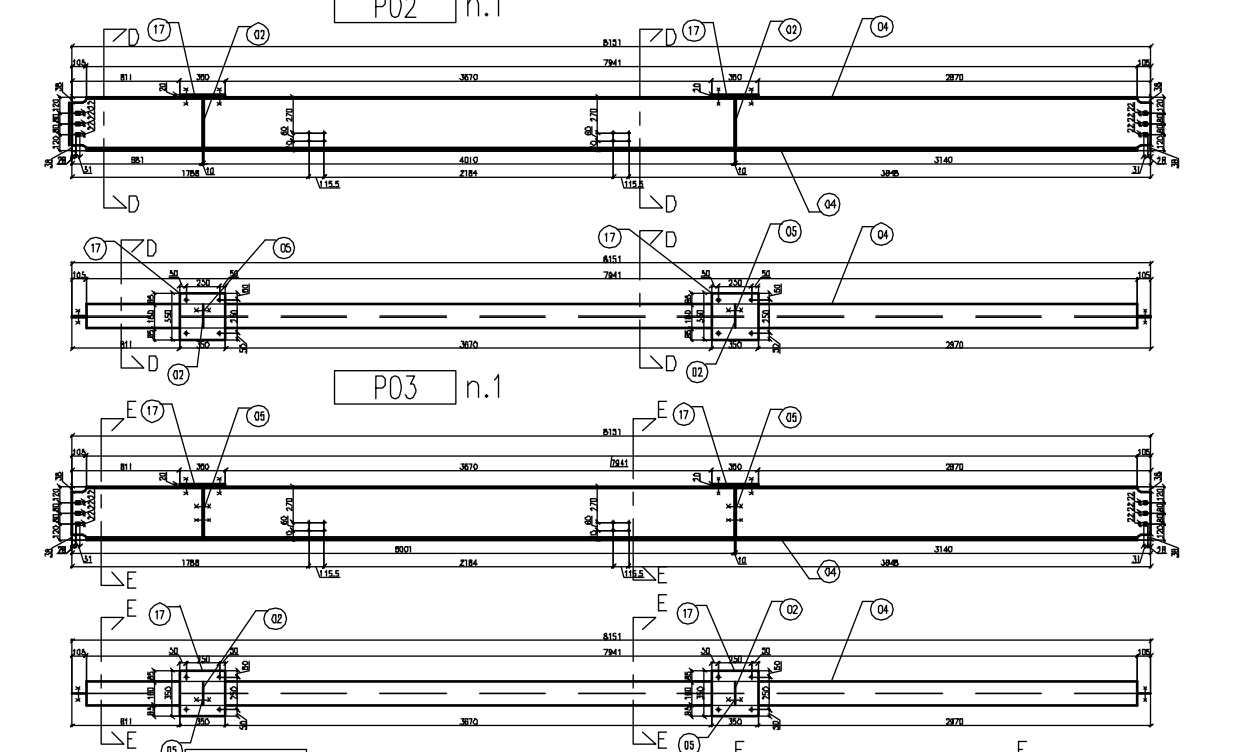


P9 n.1



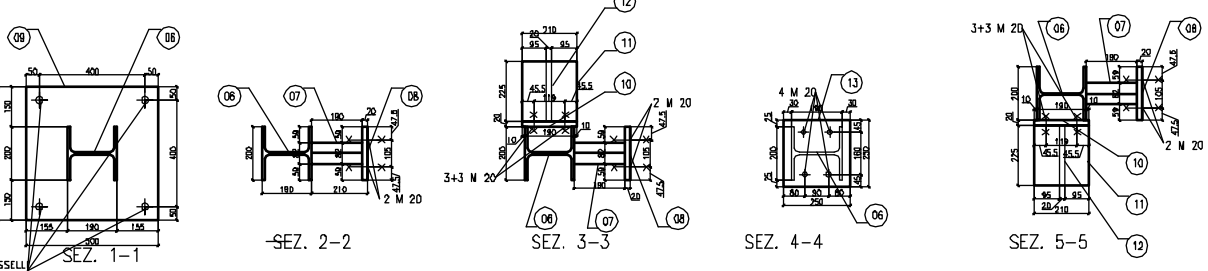
P01 n.1

P02 n.1



P03 n.1

P04 n.1

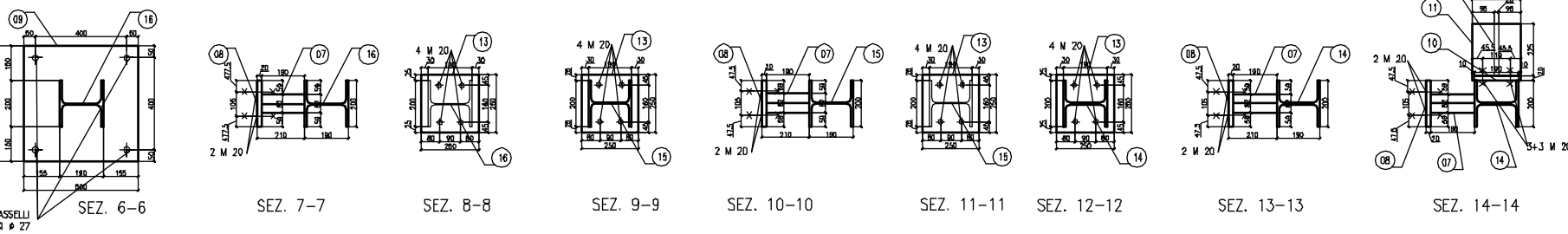


SEZ. 2-2

SEZ. 3-3

SEZ. 4-4

SEZ. 5-5



SEZ. 7-7

SEZ. 8-8

SEZ. 9-9

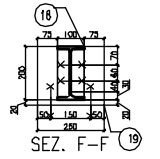
SEZ. 10-10

SEZ. 11-11

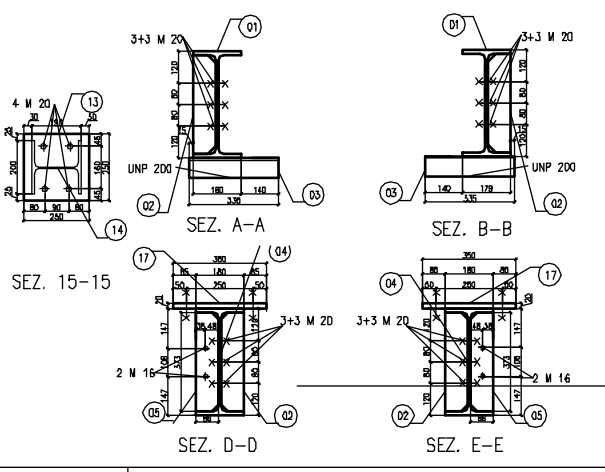
SEZ. 12-12

SEZ. 13-13

SEZ. 14-14



SEZ. F-F

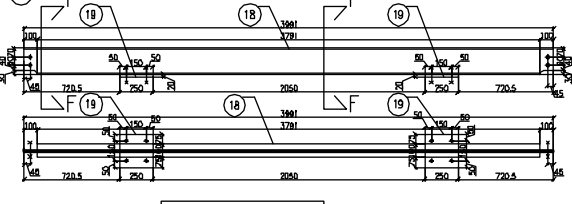


SEZ. A-A

SEZ. B-B

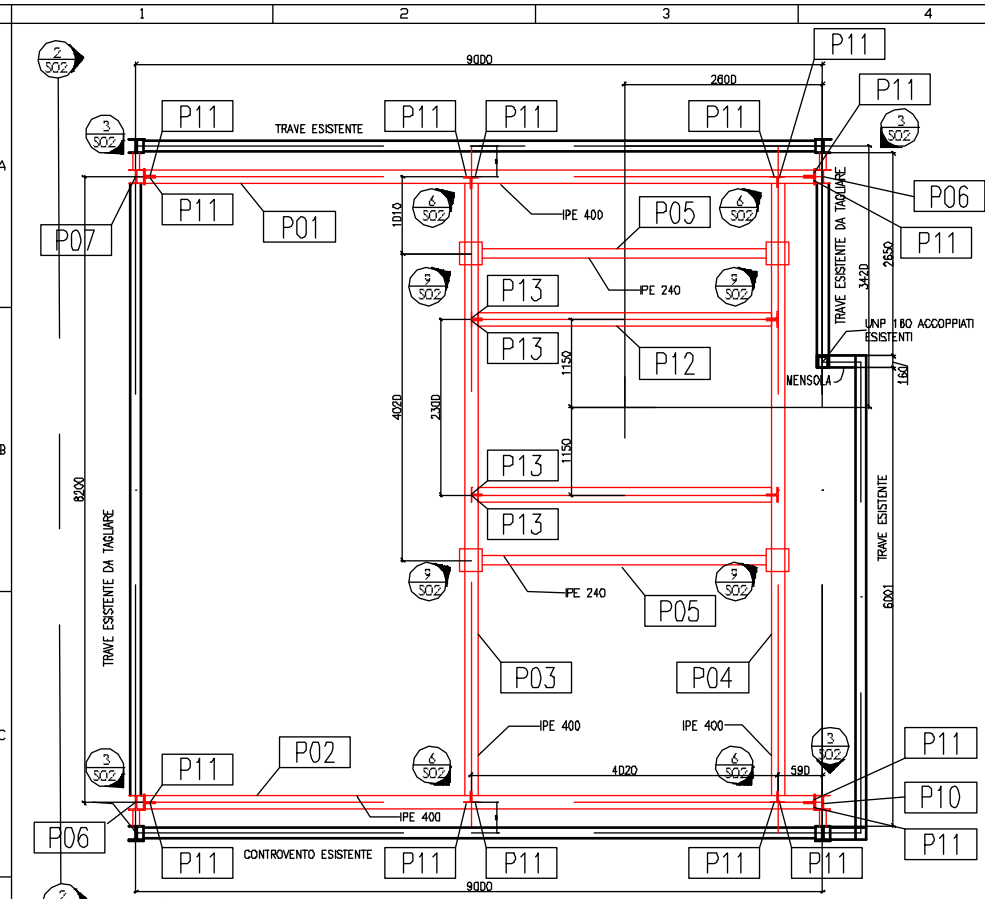
SEZ. D-D

SEZ. E-E

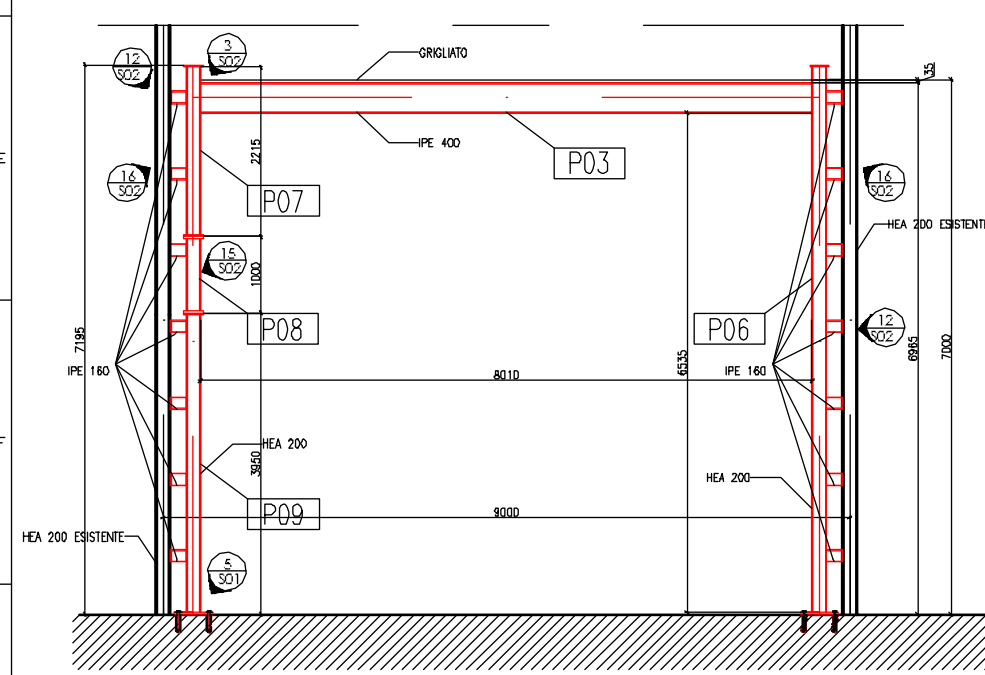


P12 n.2

| | | | |
|------------------------|--------------|---|-----------------------|
| 0 | 12/03/03 | EMISSIONE | U.T.E. |
| REVISIONI | DATE | DESCRIPTION | CHECKED BY |
| | | LENZIONI | 302 |
| | | CONSTRUZIONI METALLICHE s.r.l. | TECNICHE |
| Committente | Purchaser | SELENE s.p.a. | Data Date |
| | | Via per Vicopelago, 53 | 12/03/03 |
| | | Vicopelago (LU) | Scale |
| | | | VARIE |
| Descrizione | Description | RISTRUTTURAZIONE DI UN EDIFICIO INDUSTRIALE | Disegnato da |
| | | | Drawn by |
| | | | TECNICHE |
| Utilizzazione Impianto | Job location | VICOPELAGO (LUCCA) | Responsabile commessa |
| | | | Job manager |
| | | | LENZIONI |
| Titolo | Title | Distinte di officina | Approvato |
| | | | approved by |



1 Pianta
Scala 1:50
NUOVA COSTRUZIONE



2 Prospetto
Scala 1:50
NUOVA COSTRUZIONE

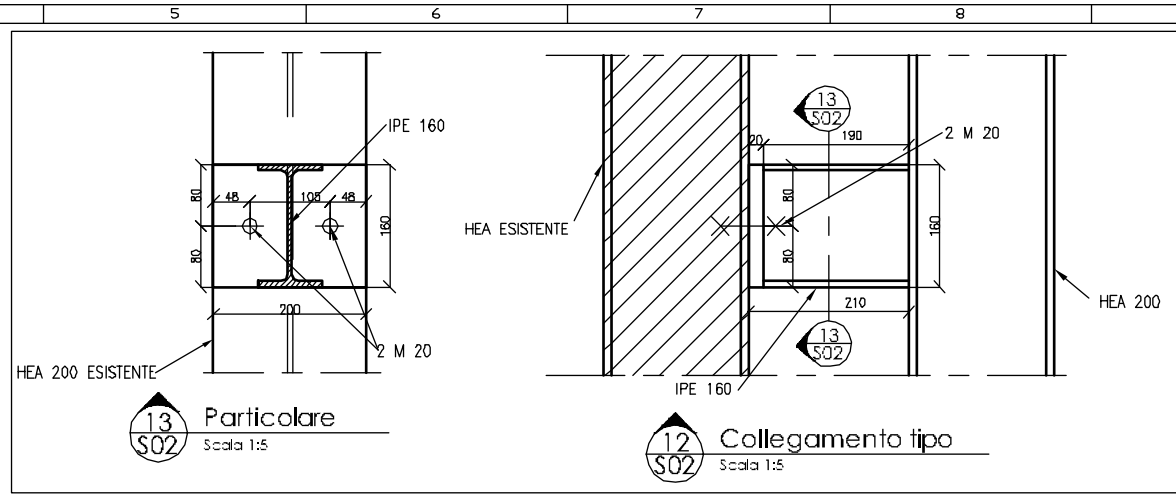
SIMBOLOGIA COLLEGAMENTI

CORDONI DI SALDATURA TIPICI
ESEMPIO DI DUE TIPI DI SALDATURE SPECIFICHE

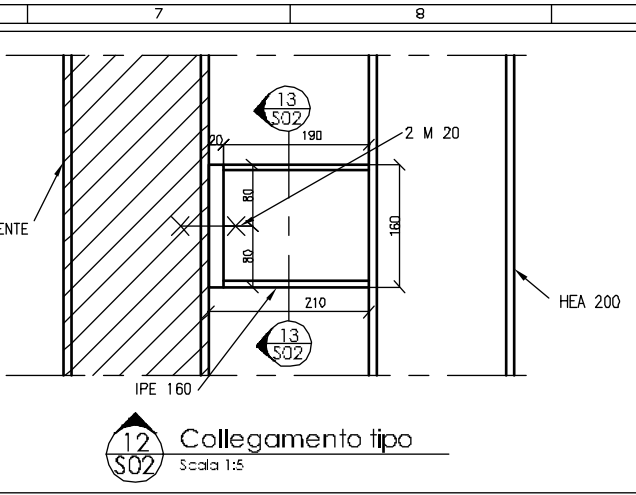
| DIAM. BULLONI | DIAM. CORDONE | ALTEZZA CORDONE | DIAM. BULLONI | DIAM. CORDONE | ALTEZZA CORDONE |
|---------------|---------------|-----------------|---------------|---------------|-----------------|
| M10 | 11 | 10 | M20 | 21 | 40 |
| M12 | 13 | 12 | M22 | 24 | 50 |
| M14 | 15 | 14 | M24 | 26 | 55 |
| M16 | 17 | 16 | M26 | 28 | 60 |
| M18 | 19 | 18 | M30 | 32 | 70 |

FORI PER BULLONI STANDARD

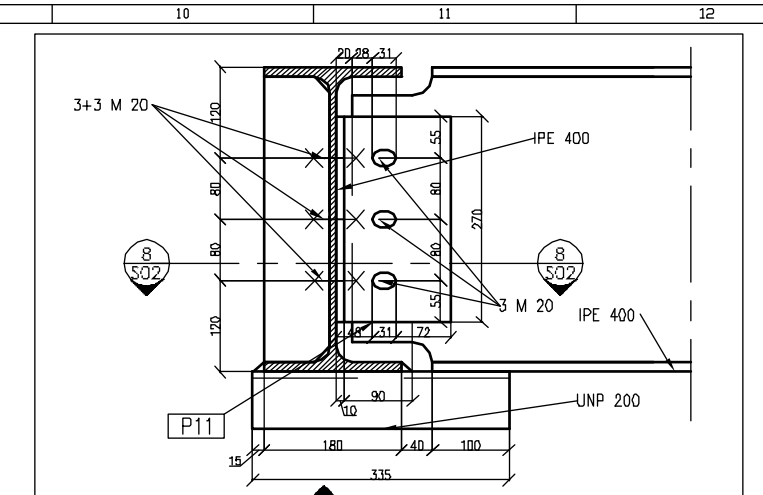
| DIAM. BULLONI | DIAM. FORO | DIAM. BULLONI | DIAM. FORO |
|---------------|------------|---------------|------------|
| M10 | 12 | M20 | 24 |
| M12 | 14 | M22 | 26 |
| M14 | 16 | M24 | 28 |
| M16 | 18 | M26 | 30 |
| M18 | 20 | M30 | 34 |



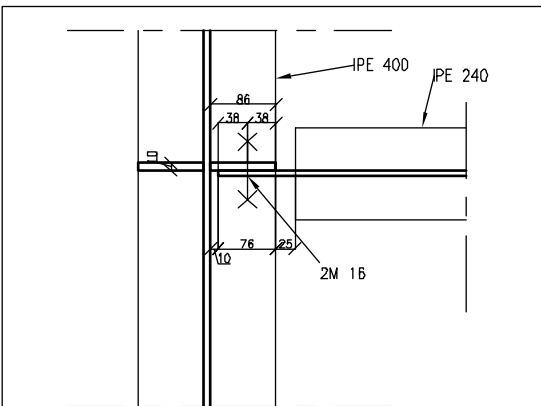
13 Particolare
Scala 1:5



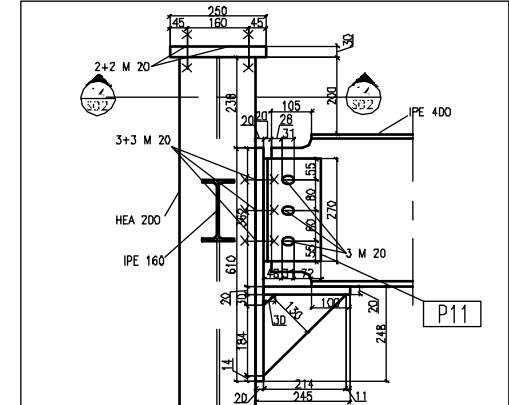
12 Collegamento tipo
Scala 1:5



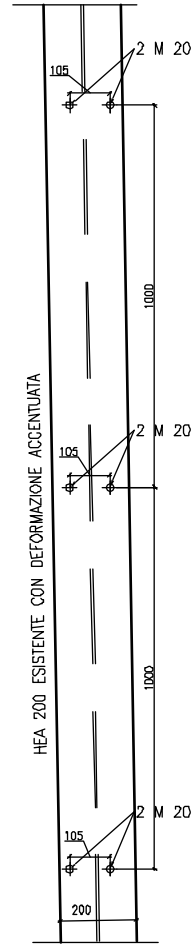
6 Particolare
Scala 1:5



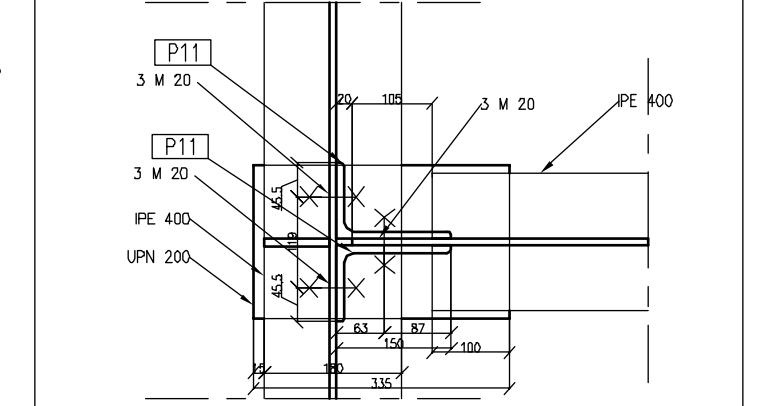
11 Particolare
Scala 1:5



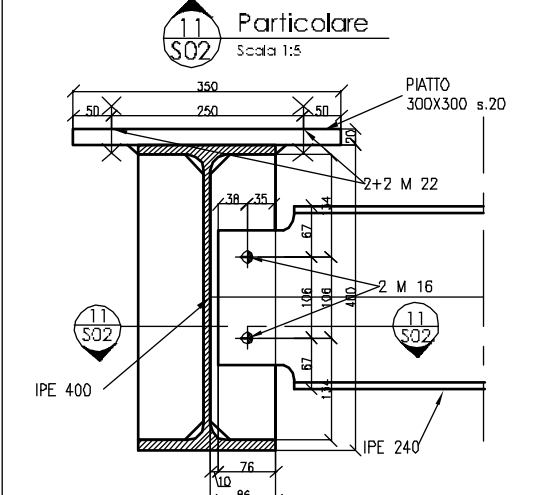
4 Particolare
Scala 1:10



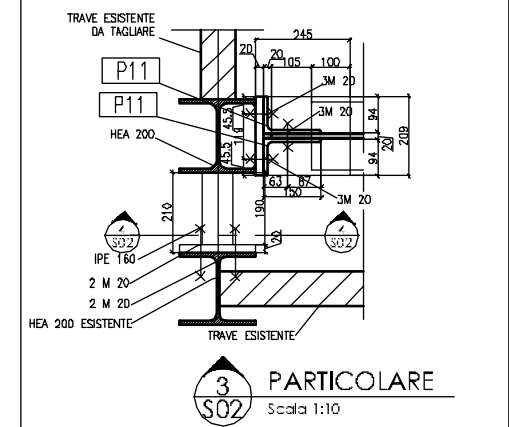
16 Particolare
Scala 1:10



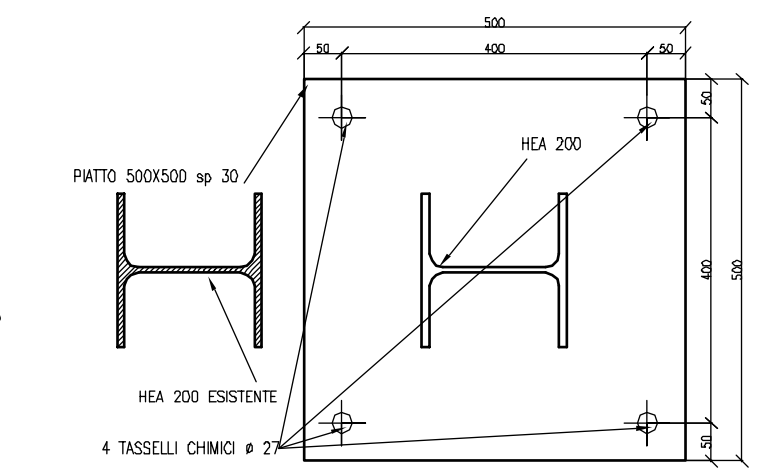
8 Particolare
Scala 1:5



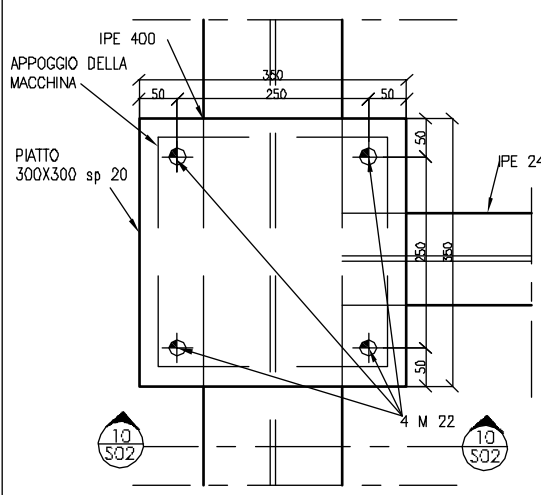
10 Particolare
Scala 1:5



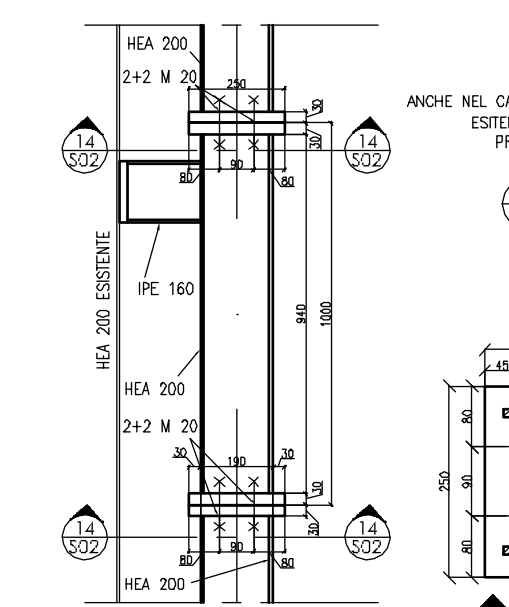
3 Particolare
Scala 1:10



5 Particolare attacco a terra
Scala 1:5

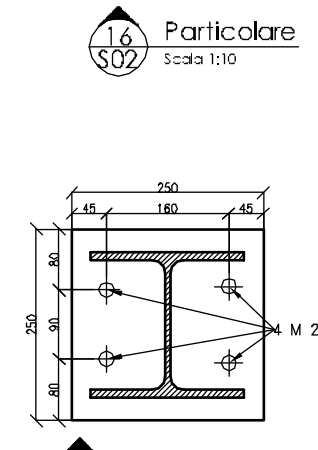


9 Particolare
Scala 1:5



14 Particolare
Scala 1:10

ANCHE NEL CASO DI DEFORMAZIONI DELL'HEA 200 ESISTENTI I FORI D'AGGANCIAMENTO CON I NUOVI PROFILATI DEVONO ESSERE IN PIOMBO



14 Particolare
Scala 1:5

| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
|----------|----------|-------------|------------|-------------|
| 0 | 12/03/03 | EMISSIONE | | U.T.E. |

LENCONI
COSTRUZIONI METALLICHE s.r.l.
Via delle Galine 709/1711
53045 S. MARCAIO (LU) ITALY
Tel. +439 0583 59027 r.a.
Fax +439 0583 327081
http://www.lenconi.it

Committente Purchaser: **SELENE s.p.a.**
Via per Vicopelago, 53
Vicopelago (LU)

Ubicazione impianto Job location: **VICOPELAGO (LUCCA)**

Disegnato da Drawn by: **TECHNE**

Responsabile commessa Job manager: **LENCONI**

Titolo Title: **Pianta prospetto e particolari**

Commissio Job: **302**

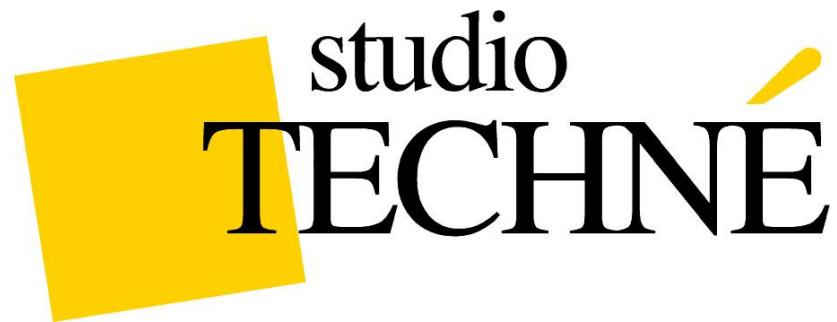
Tavola Sheet: **S01**

Data Date: **12/03/03**

Scala Scale: **VARIE**

Approved approved by: **LENCONI**

La proprietà di questo disegno è tutelata a termini di legge

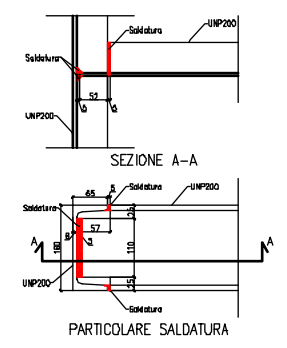
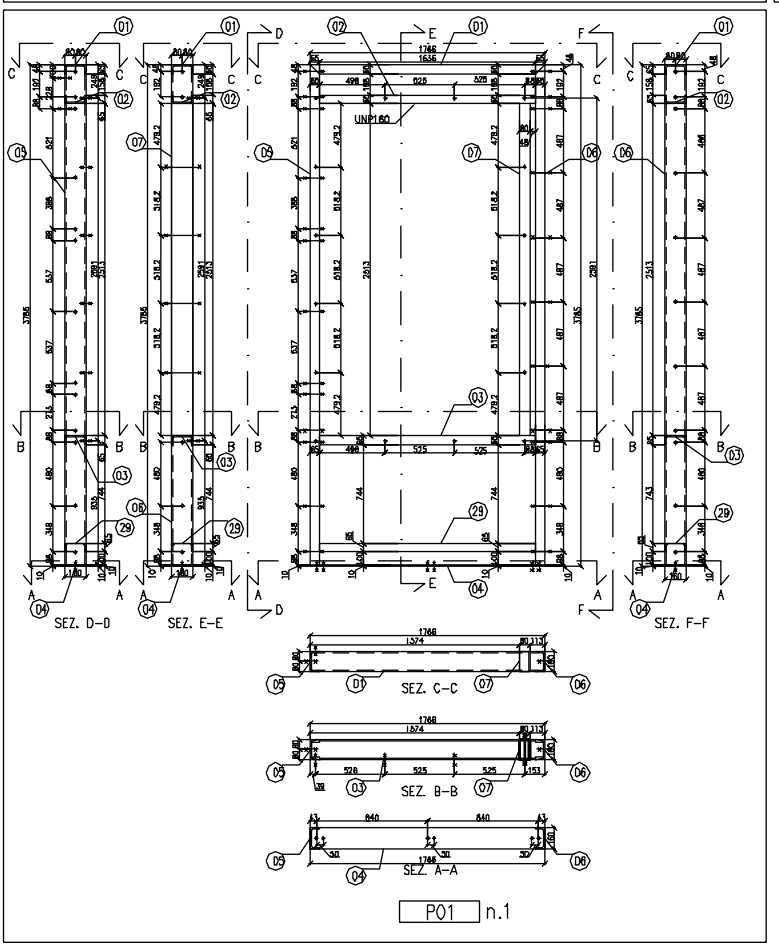
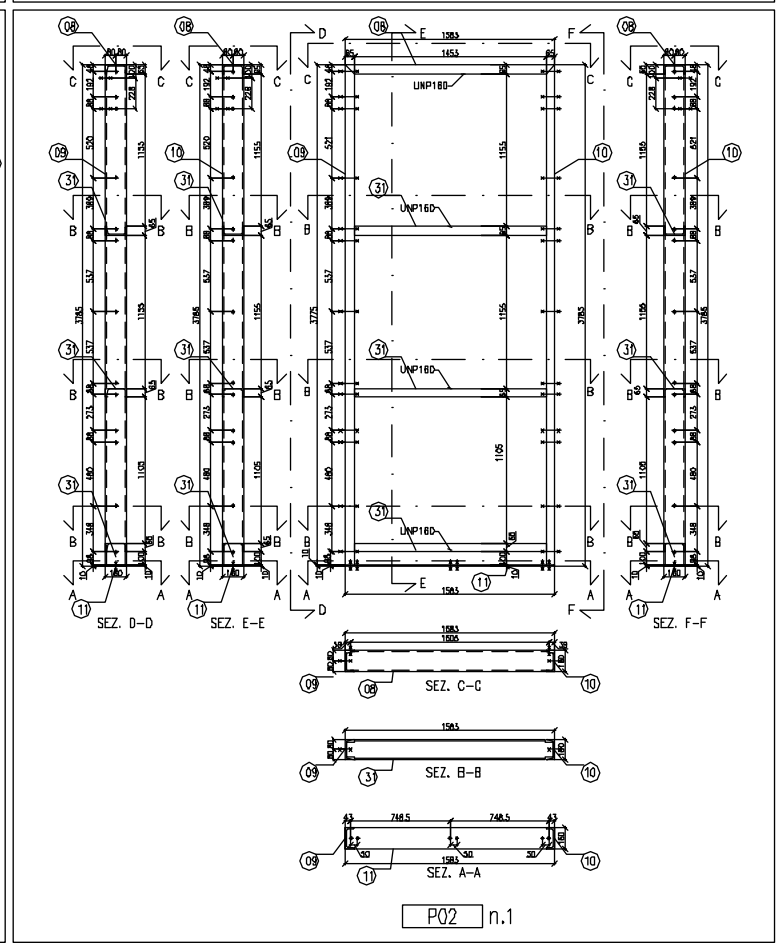
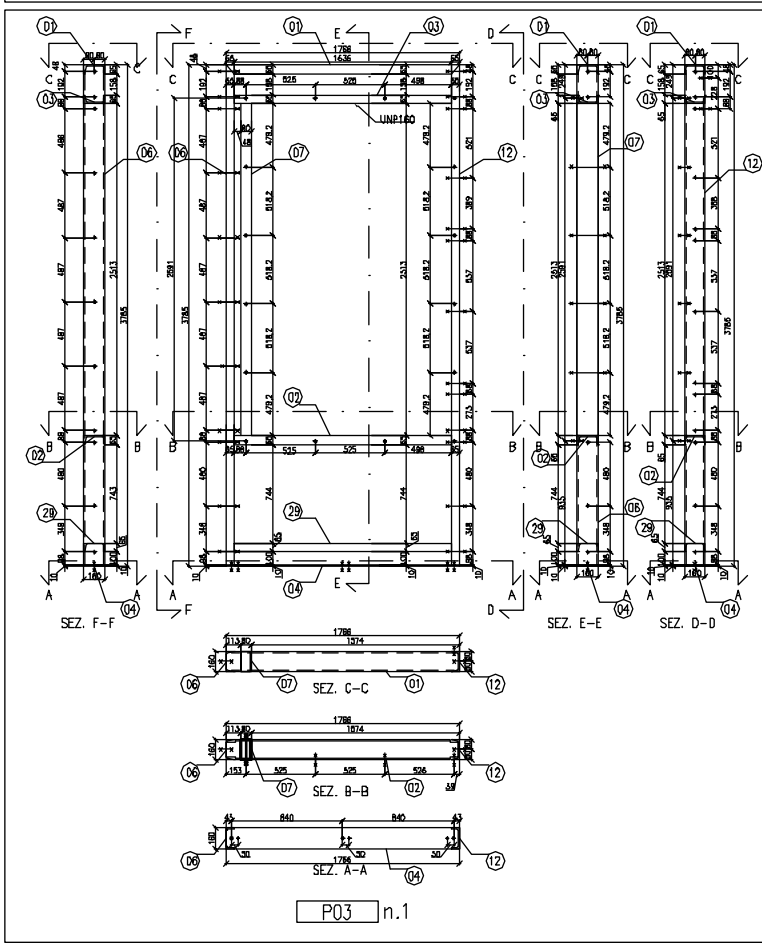
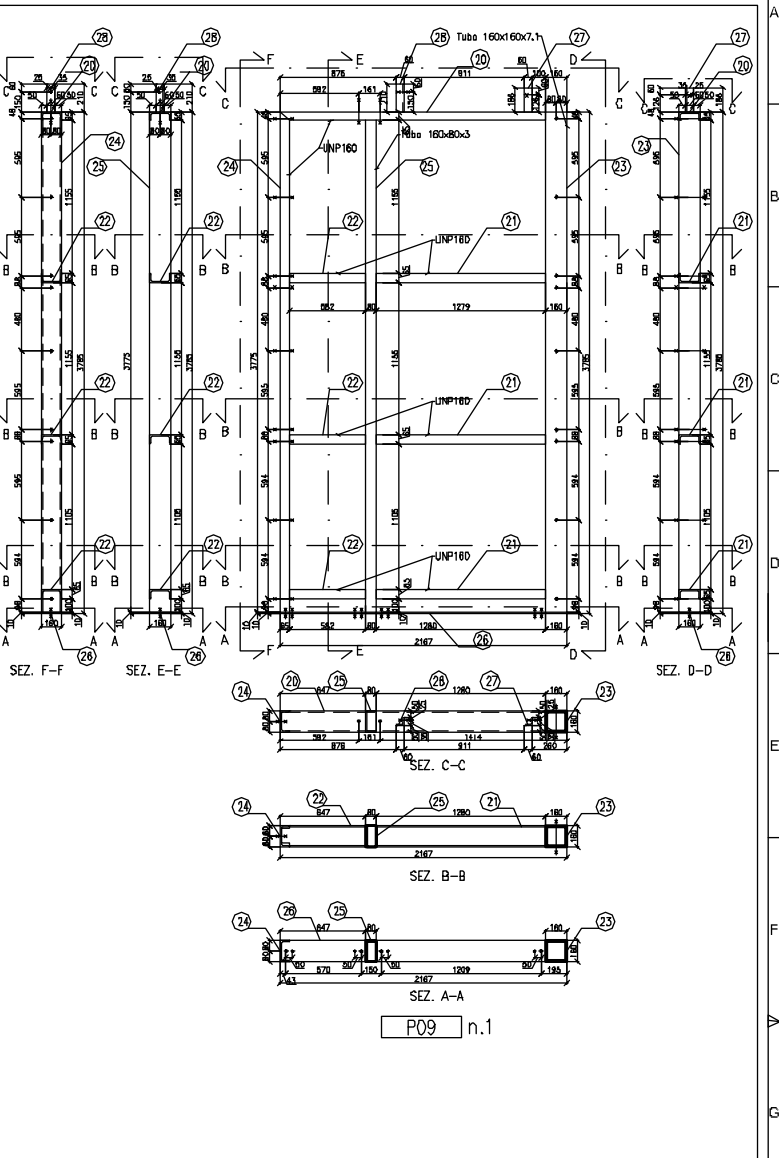
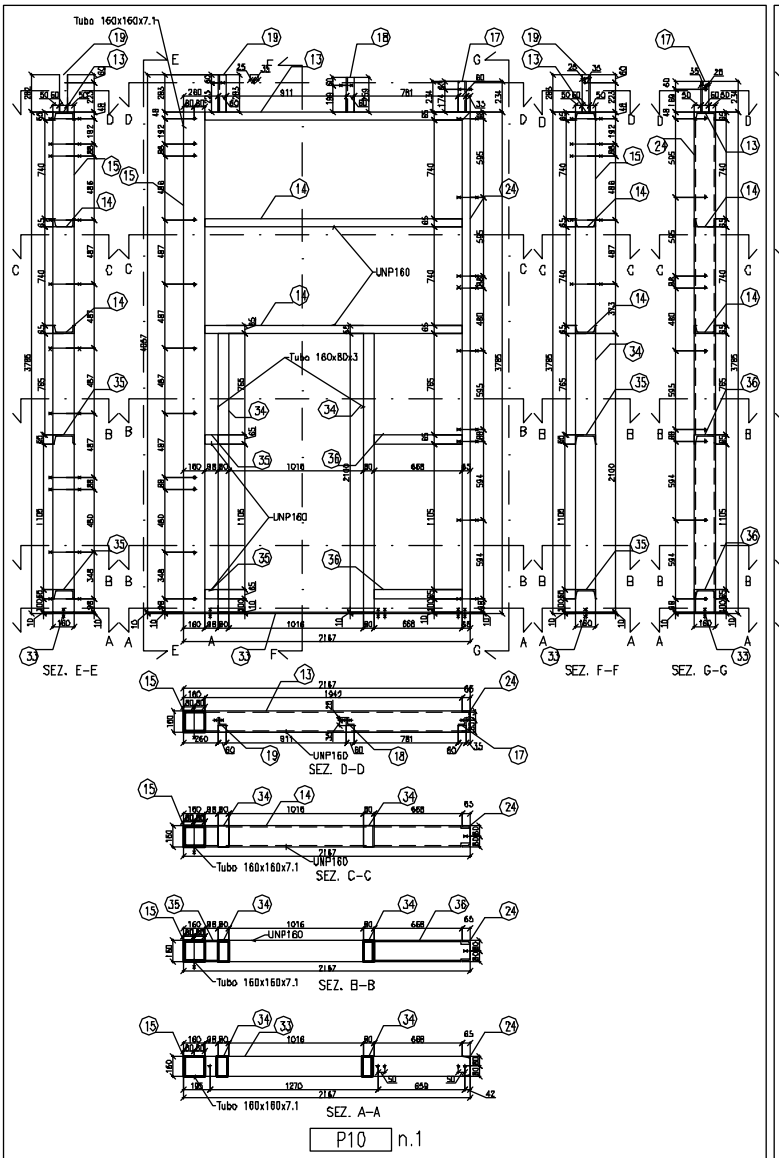
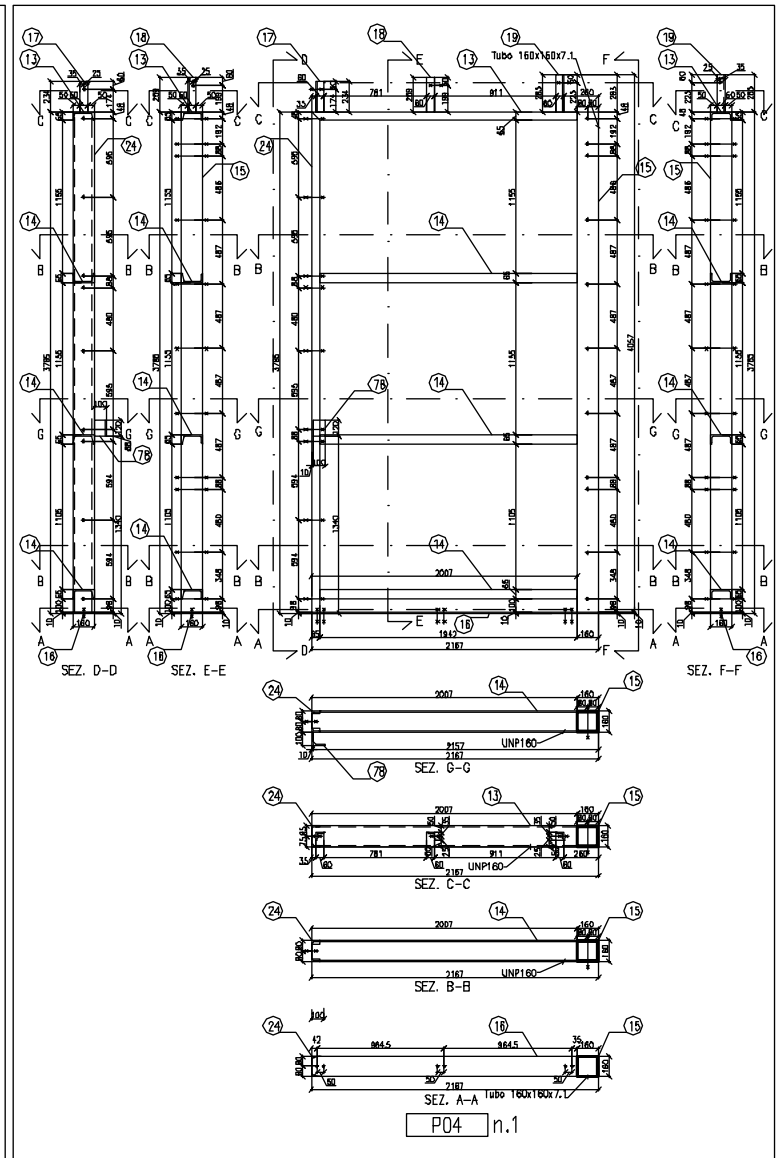
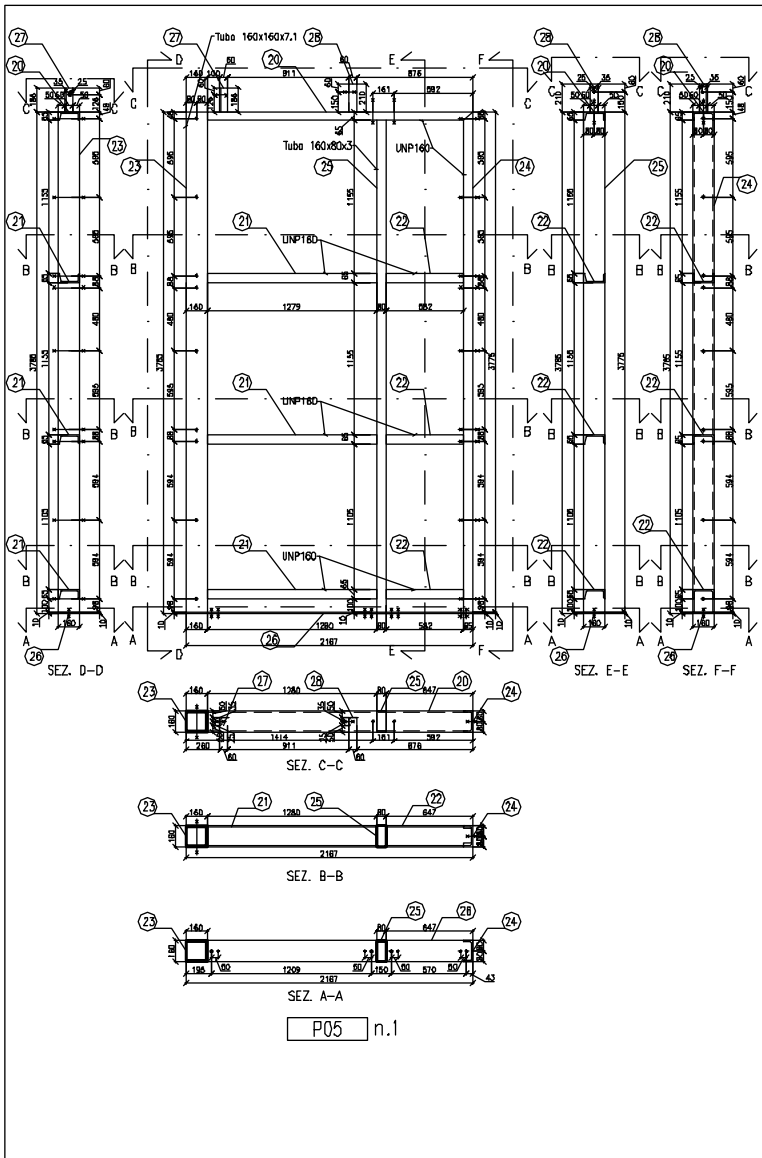


FILTER ROOM FOR PAPERMAKING MACHINERY

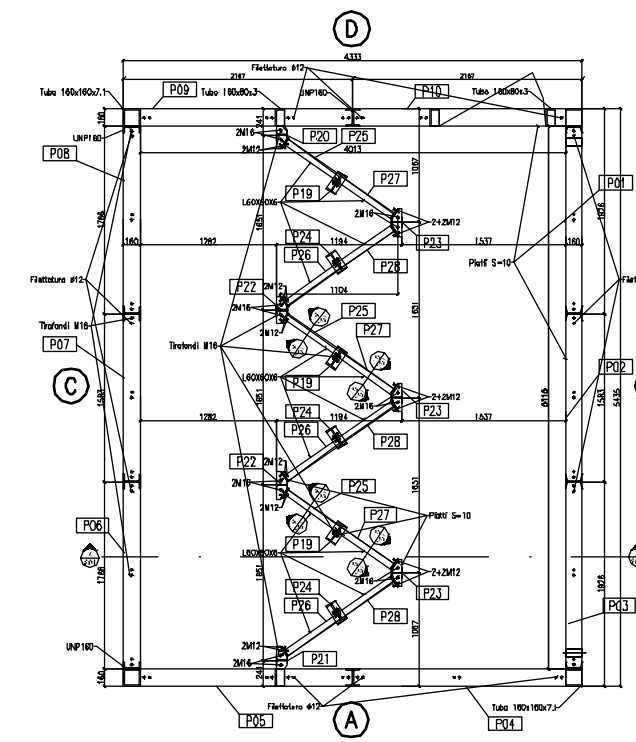
DESCRIPTION: DETAILED DESIGN AND SHOP DETAILING OF A FILTER ROOM FOR A PAPERMAKING MACHINERY TO BE INSTALLED IN LAS VEGAS (USA)

CLIENT: OFFICINE MECCANICHE TOSCHI S.P.A.

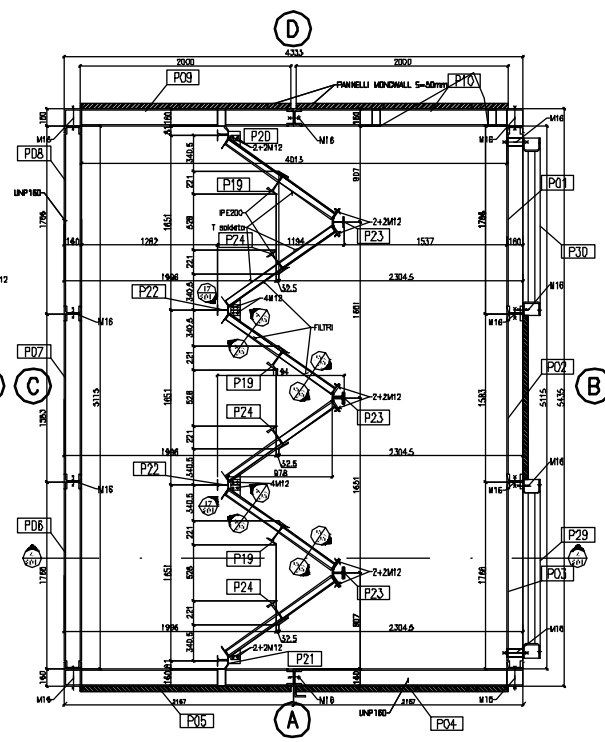
STATUS: BUILT



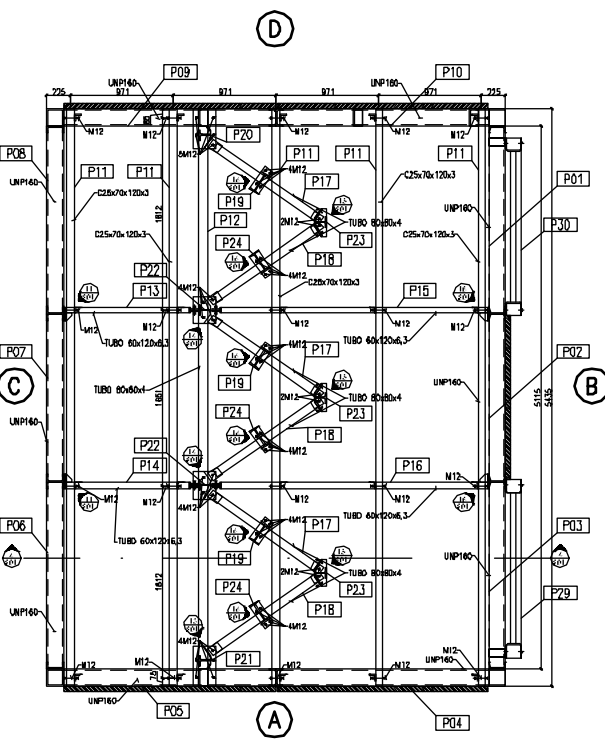
| | | |
|--|---|--|
| Cliente: CA'ANNACCI L. JCCN 18488 Poggibonsi Comune: CA Edificio: 15/05/03 Progetto: 2017-030114 | Direzione: Distinta di officina Officina: OFFICINE TOSCHI S.P.A. Gruppo Officina: SALA FILTRI | Codice: 017-03 Tipo: S02 Materiale: LIVARE |
|--|---|--|



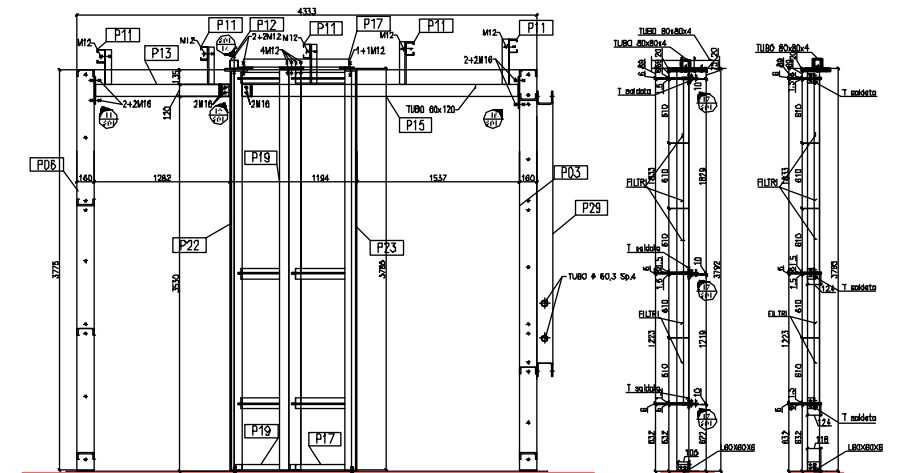
1 Pianta fondazione
Scala 1 : 25



2 Pianta copertura
Scala 1 : 25



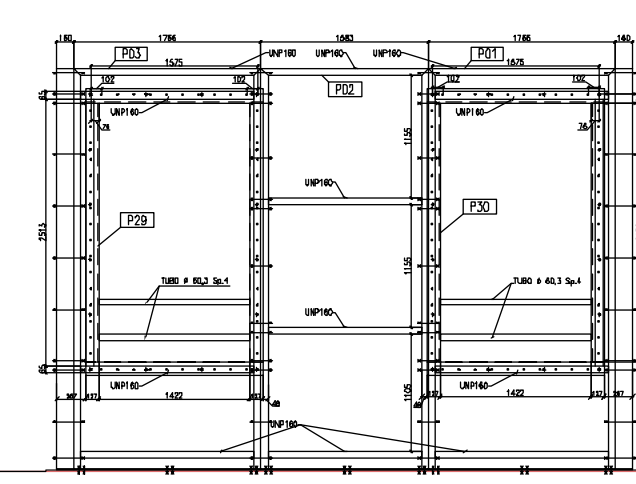
3 Pianta copertura
Scala 1 : 25



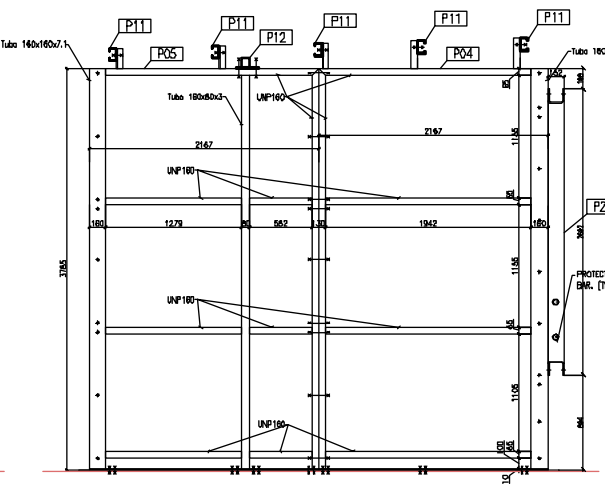
4 Sezione
Scala 1 : 25

9 Sezione
Scala 1 : 25

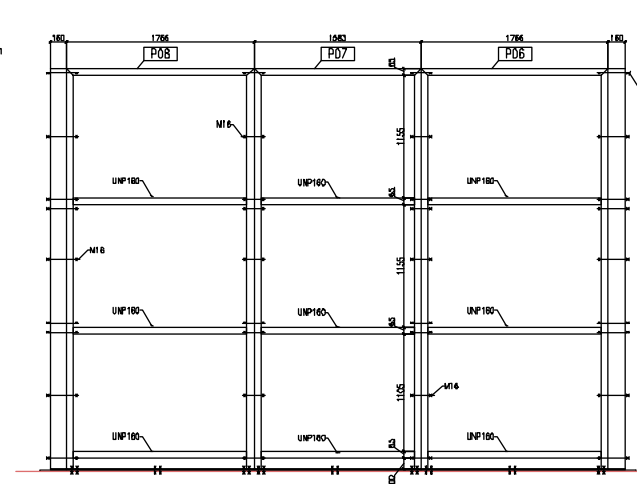
10 Sezione
Scala 1 : 25



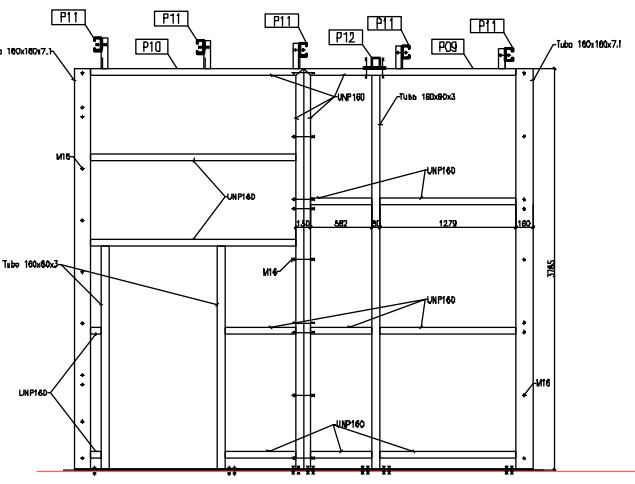
5 Prospetto B
Scala 1 : 25



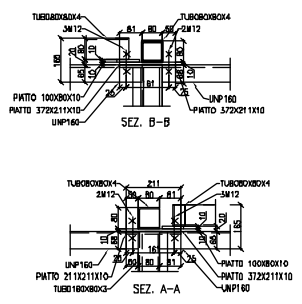
6 Prospetto A
Scala 1 : 25



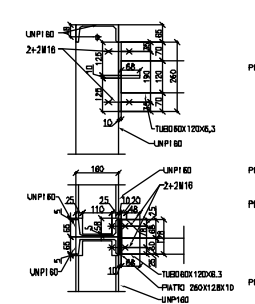
7 Prospetto C
Scala 1 : 25



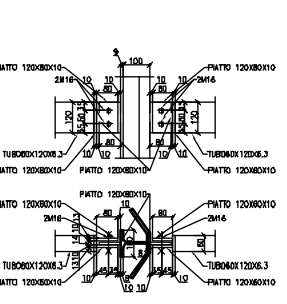
8 Prospetto D
Scala 1 : 25



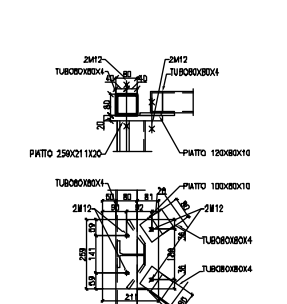
11 Particolare
Scala 1 : 10



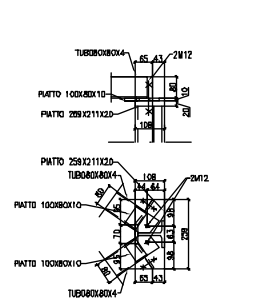
12 Particolare
Scala 1 : 10



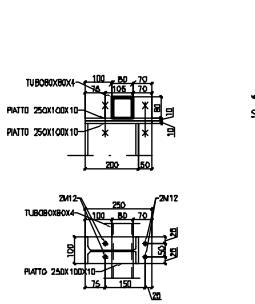
14 Particolare
Scala 1 : 10



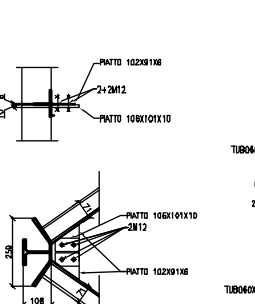
15 Particolare
Scala 1 : 10



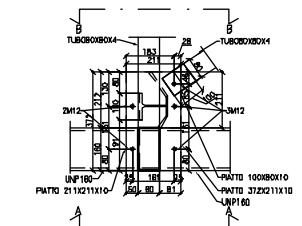
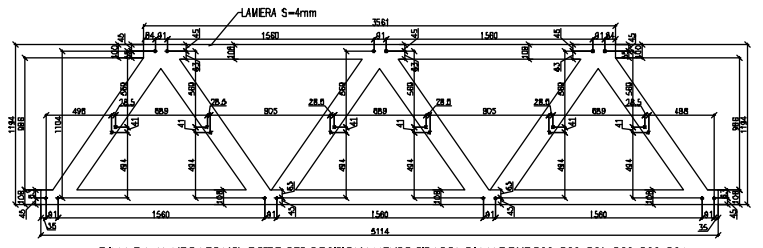
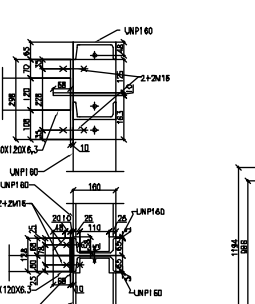
16 Particolare
Scala 1 : 10



17 Particolare
Scala 1 : 10



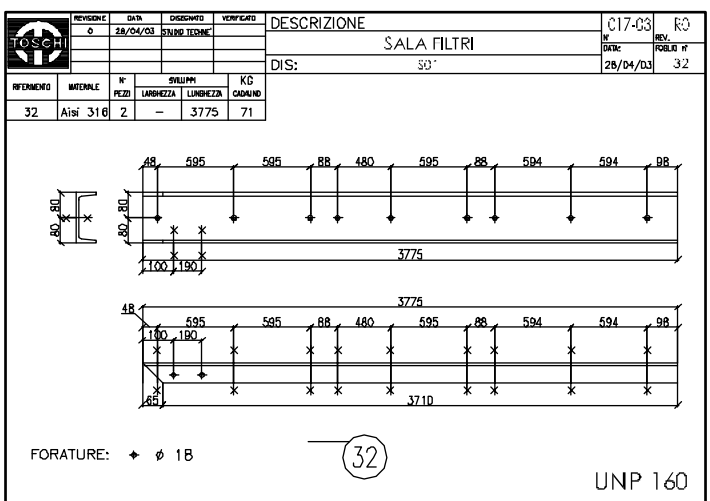
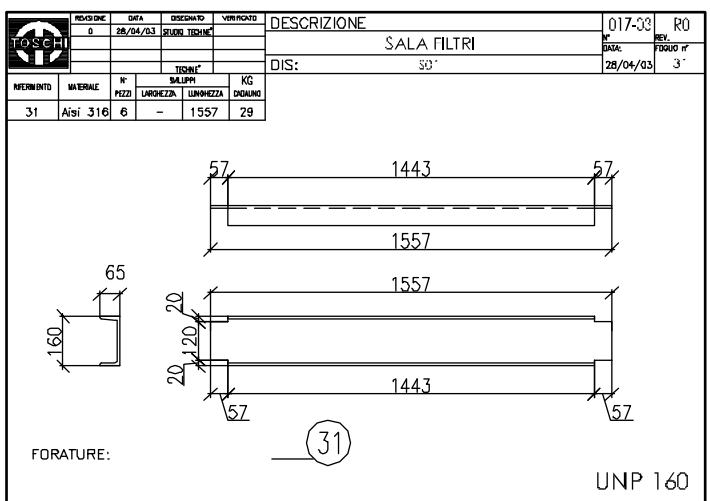
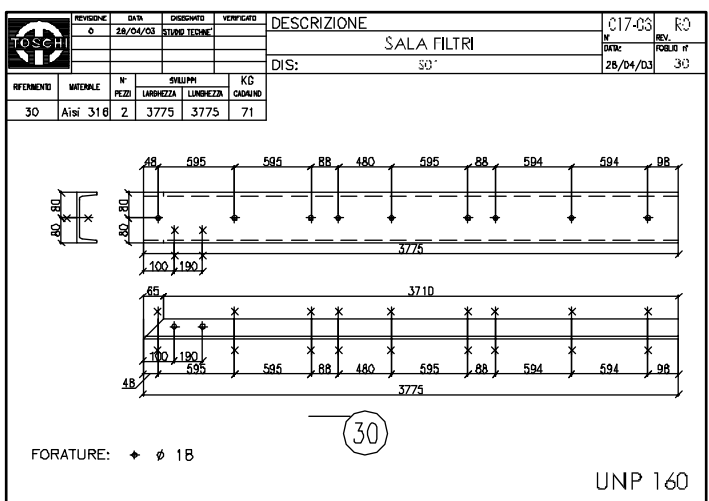
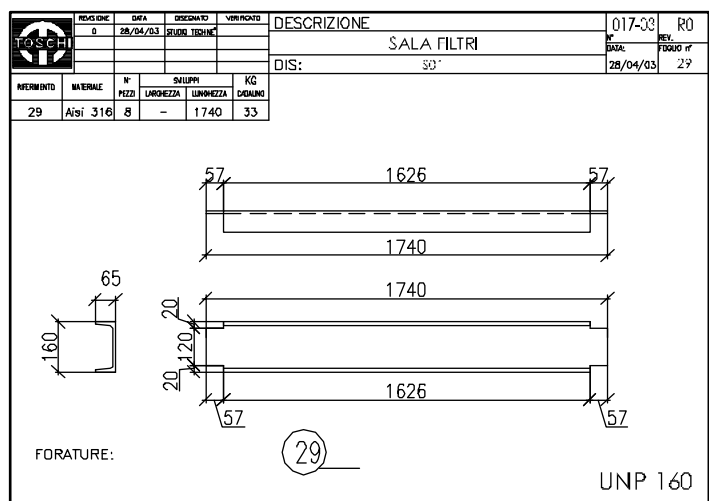
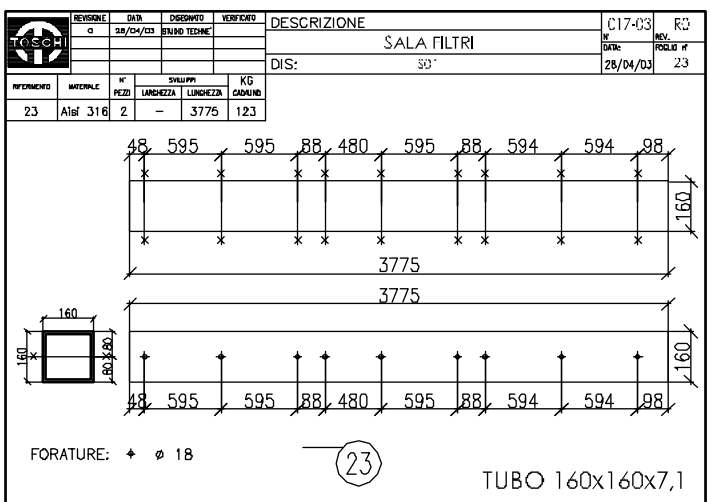
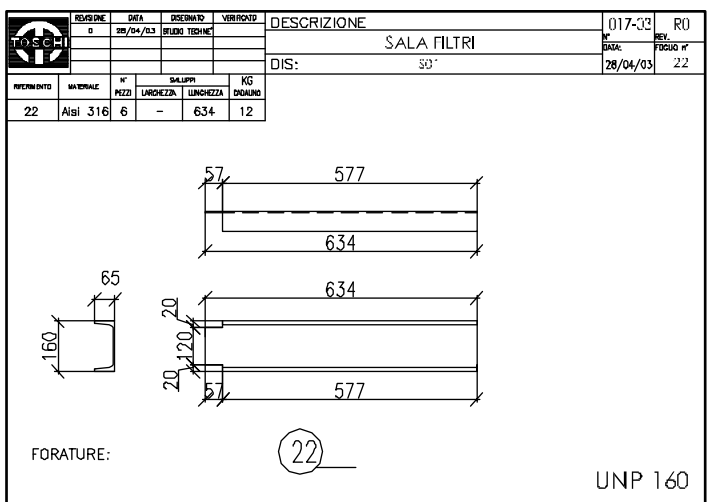
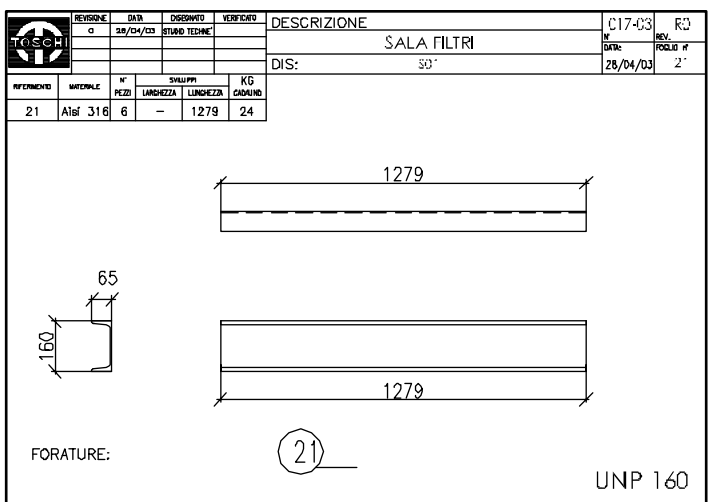
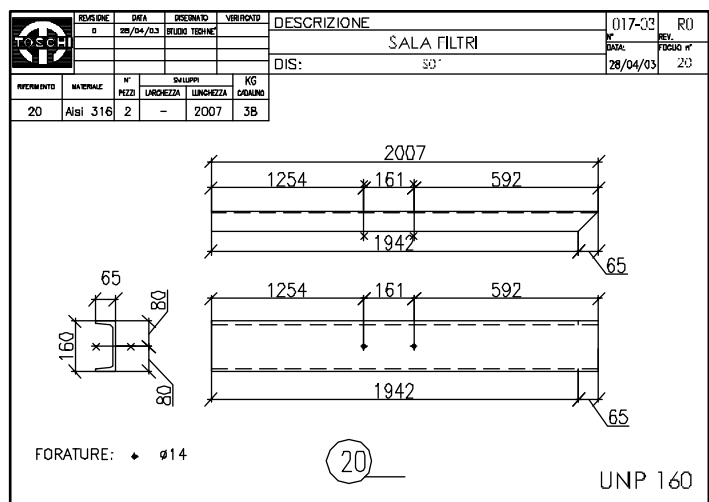
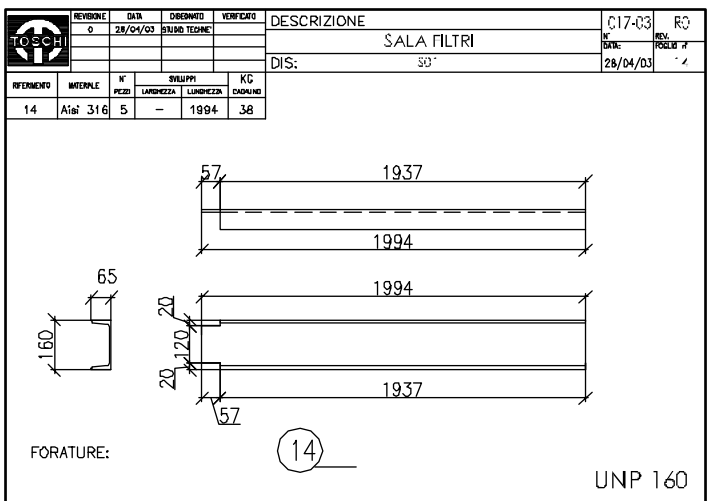
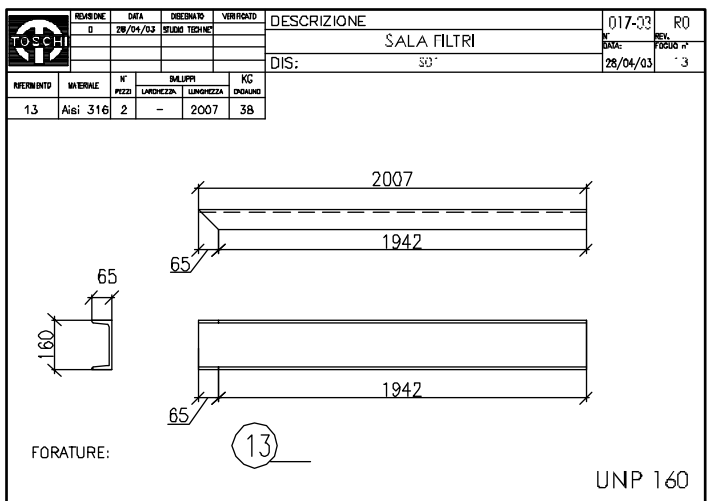
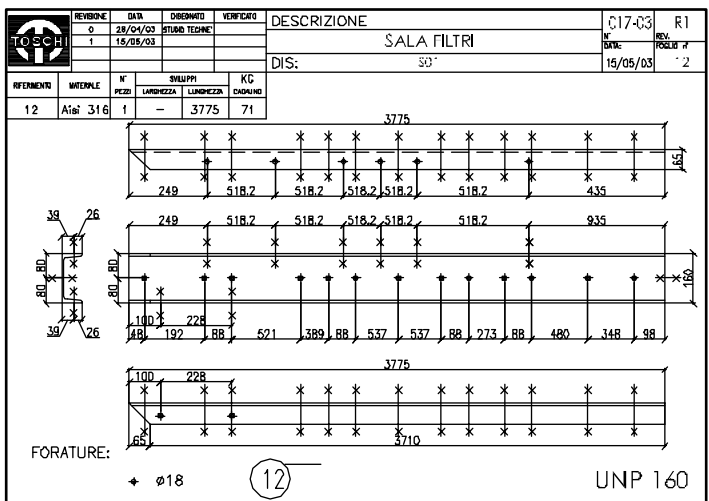
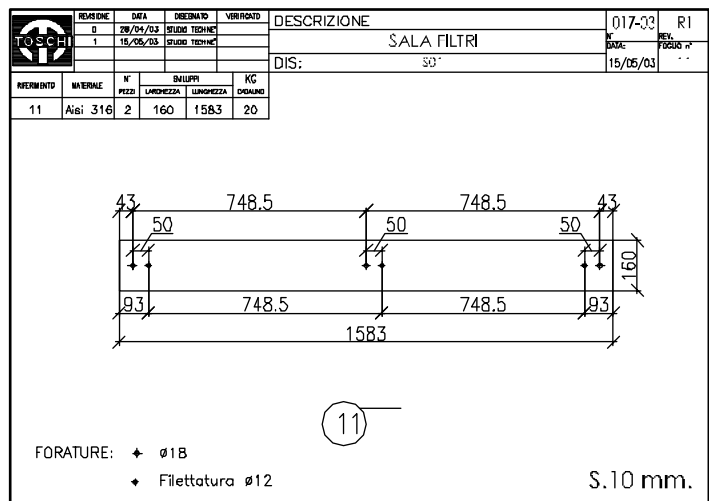
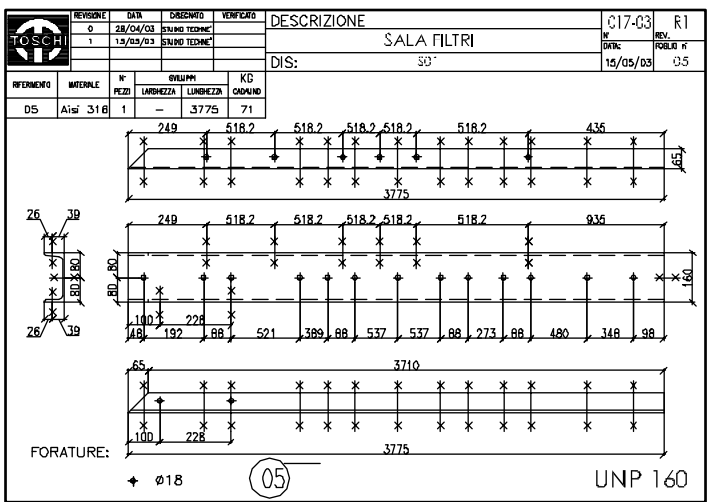
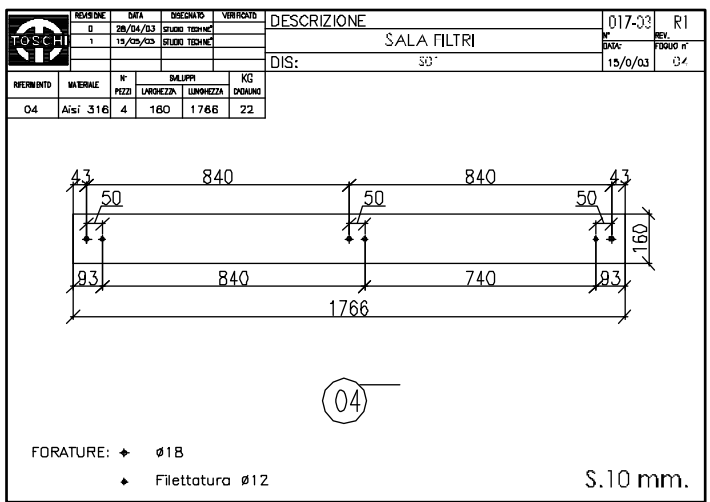
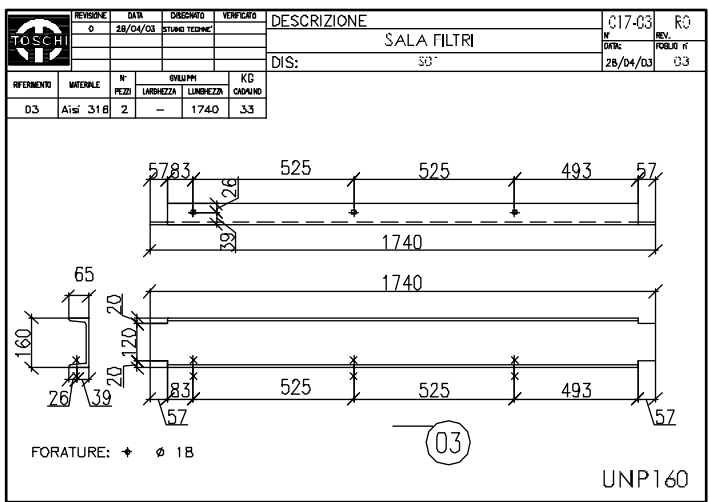
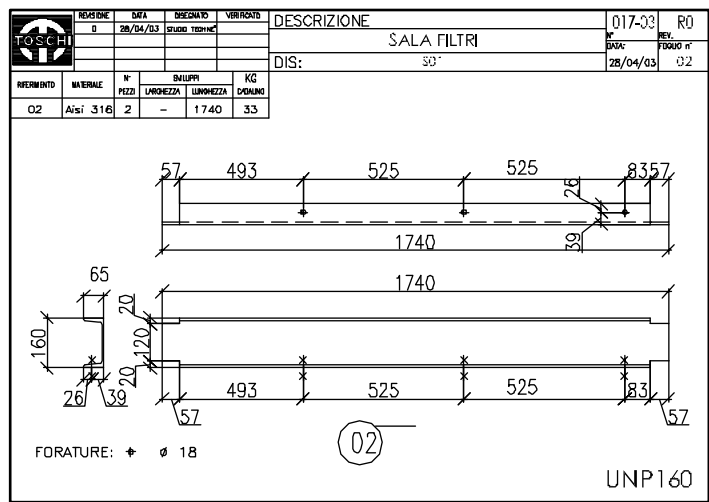
18 Particolare
Scala 1 : 10

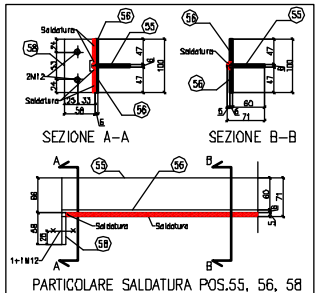
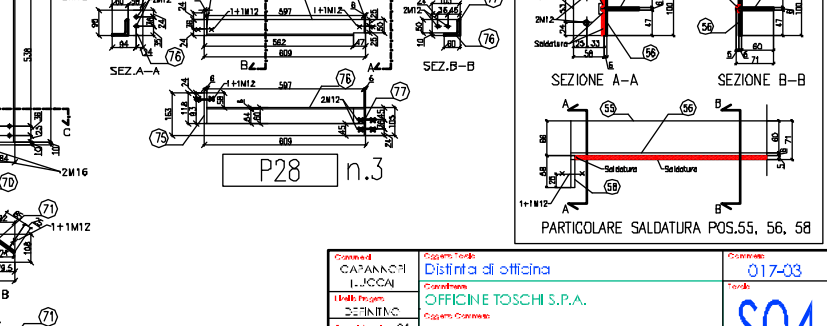
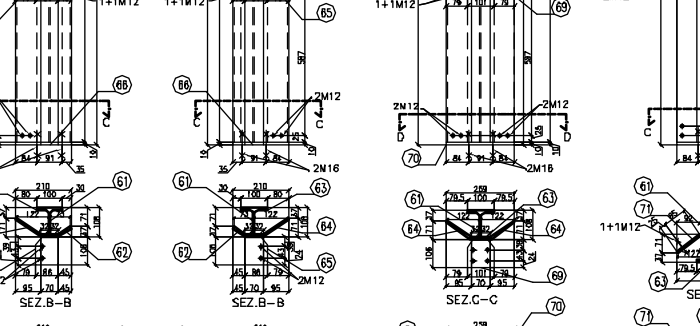
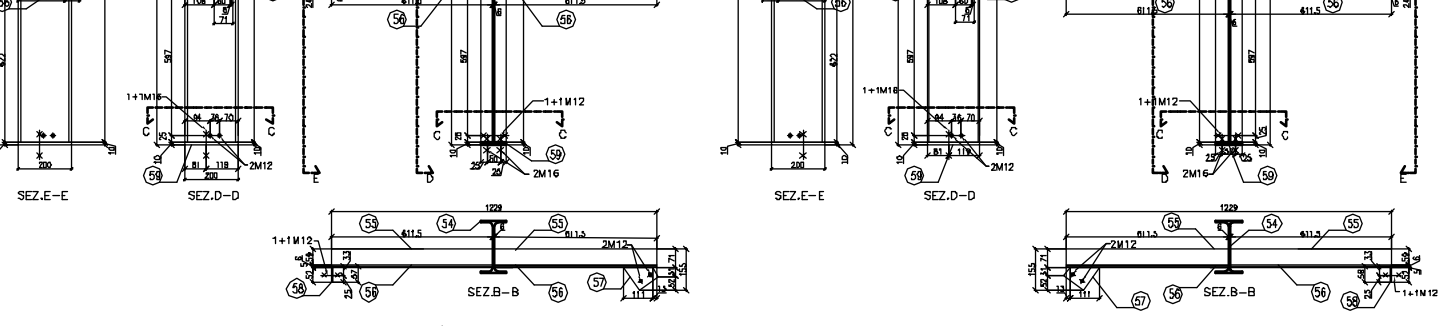
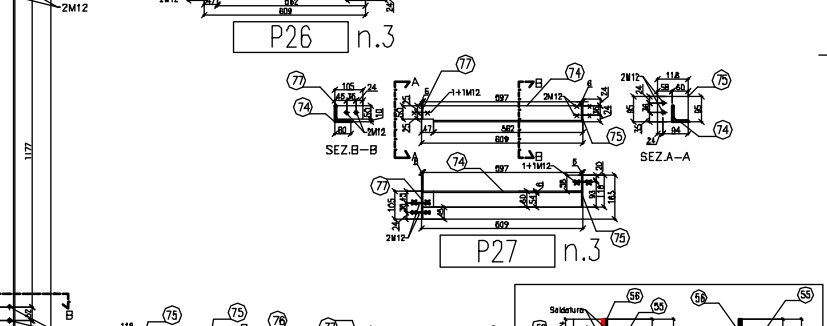
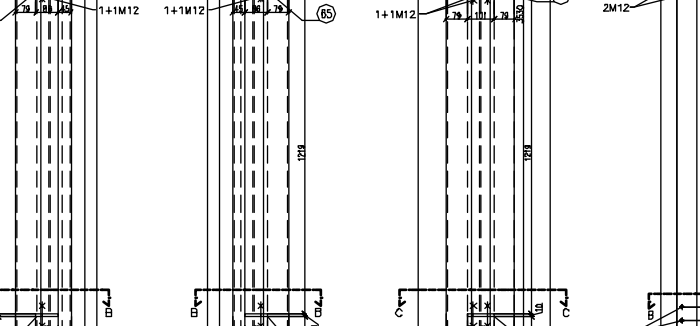
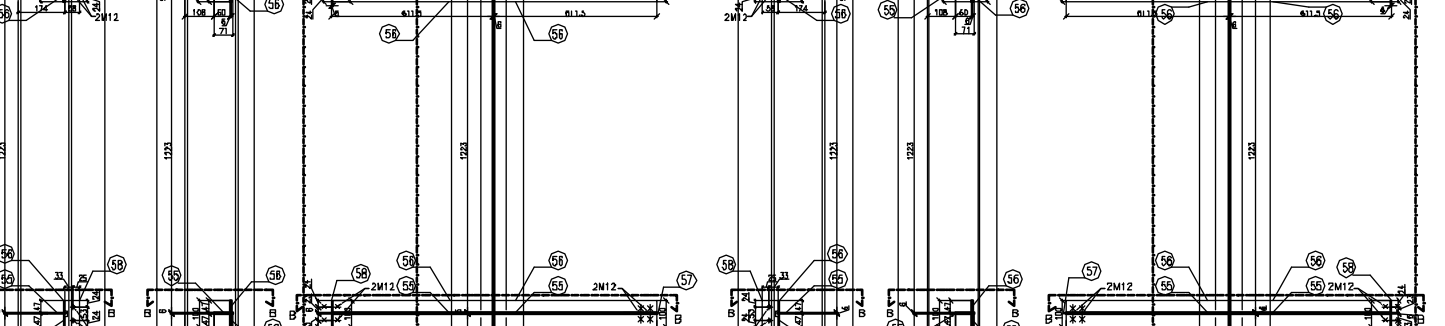
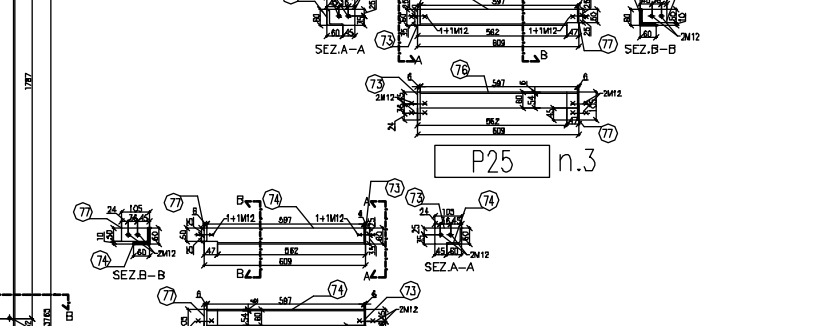
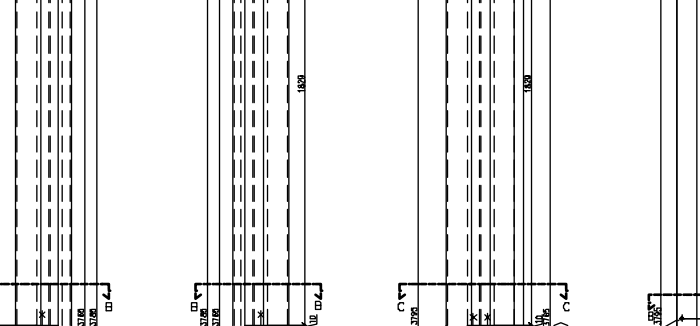
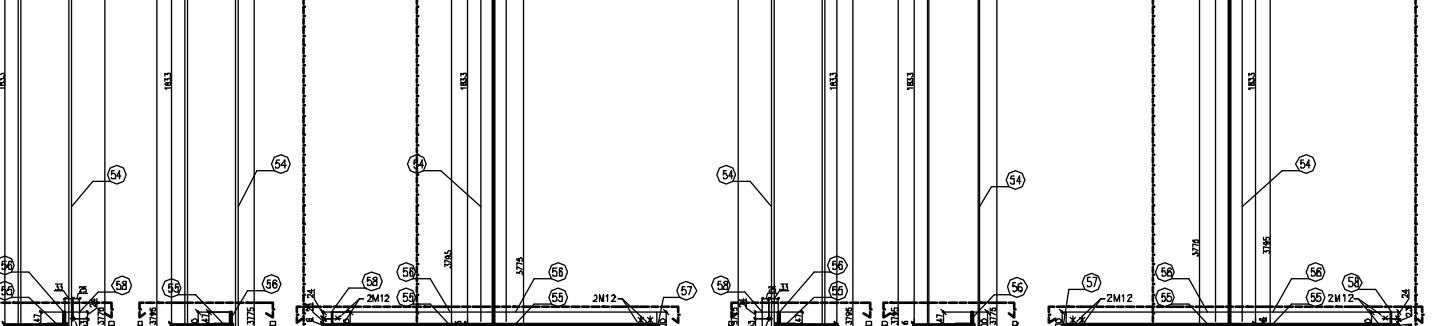
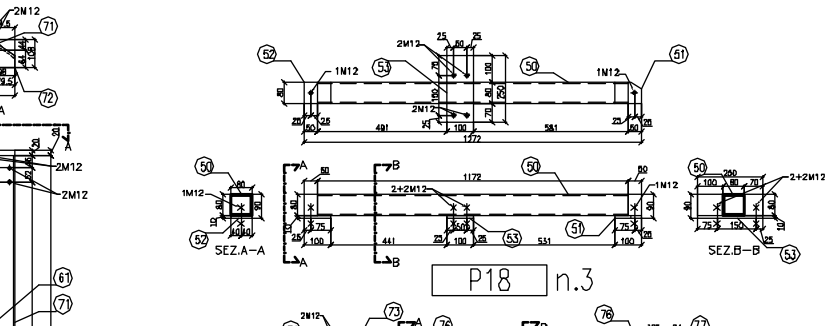
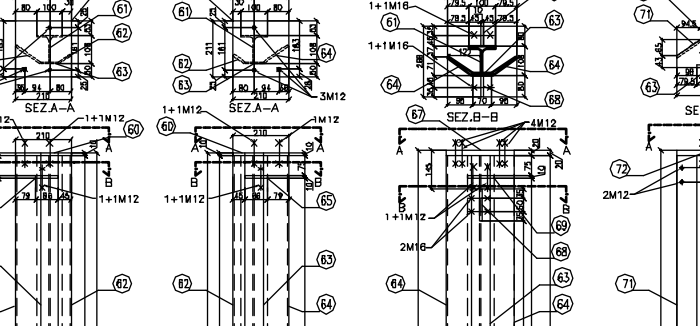
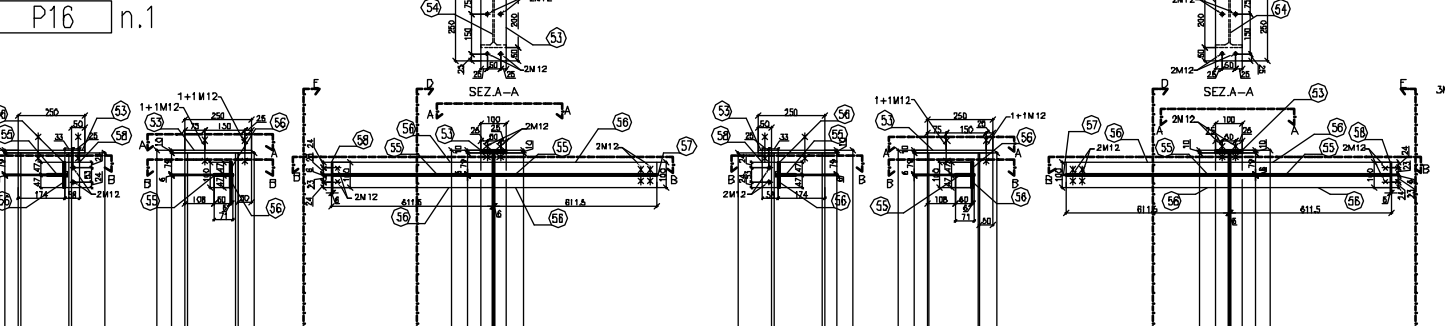
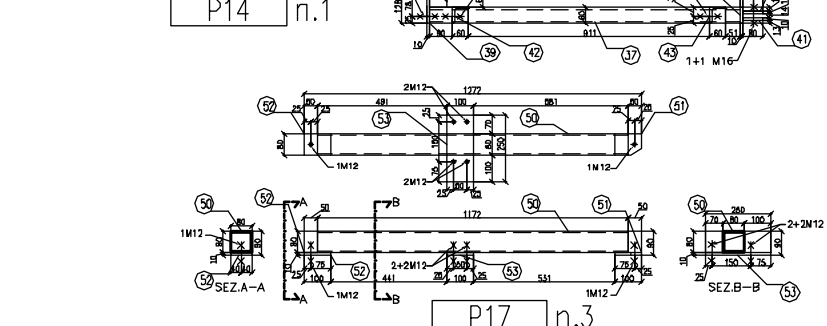
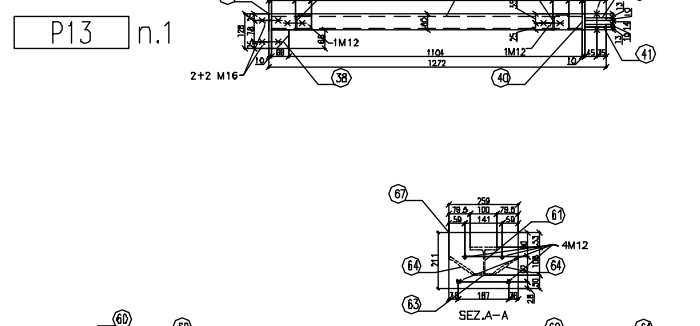
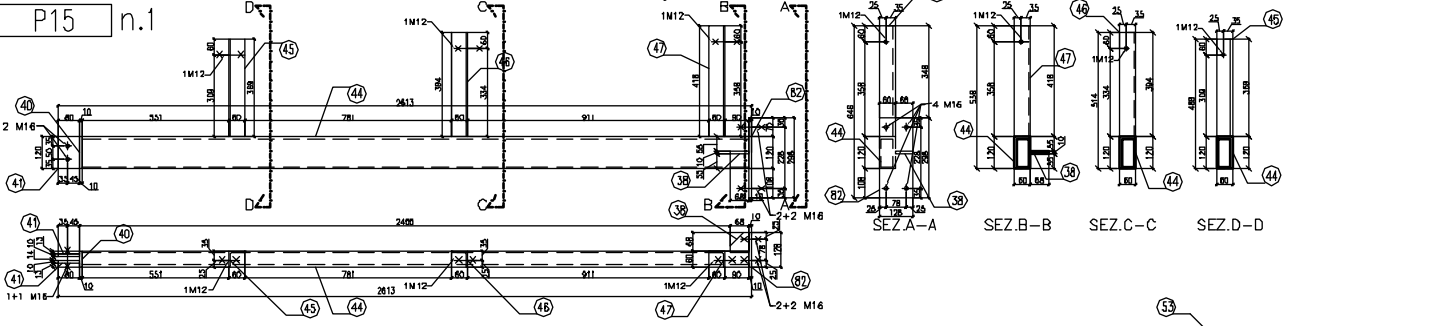
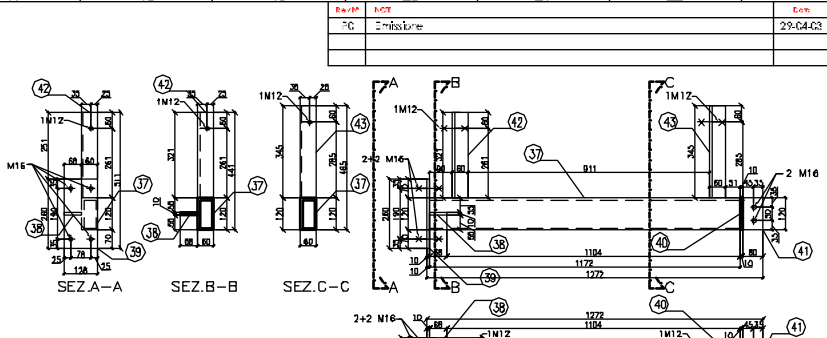
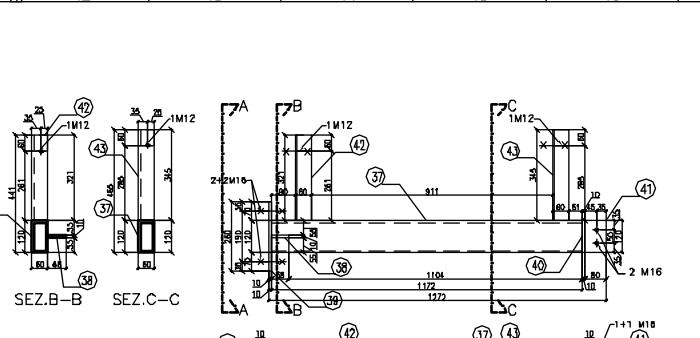
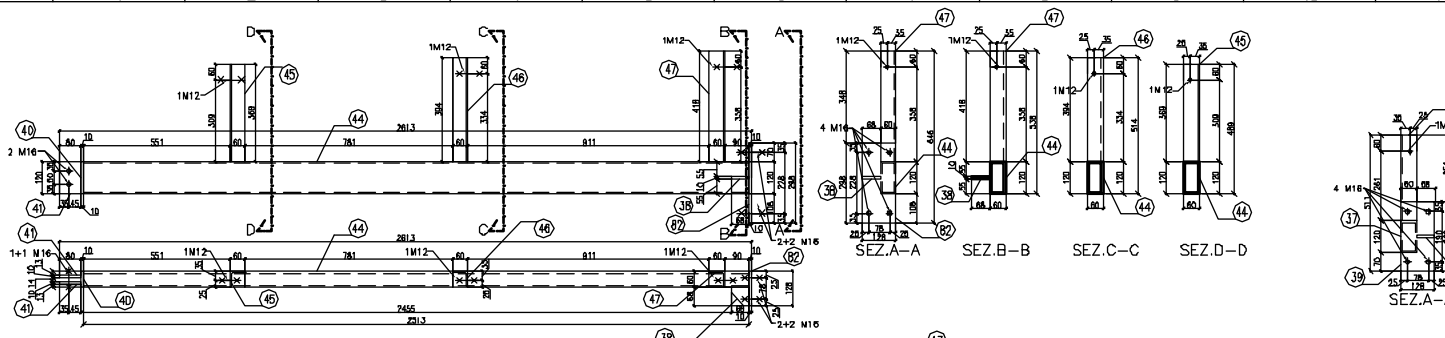


13 Particolare
Scala 1 : 10

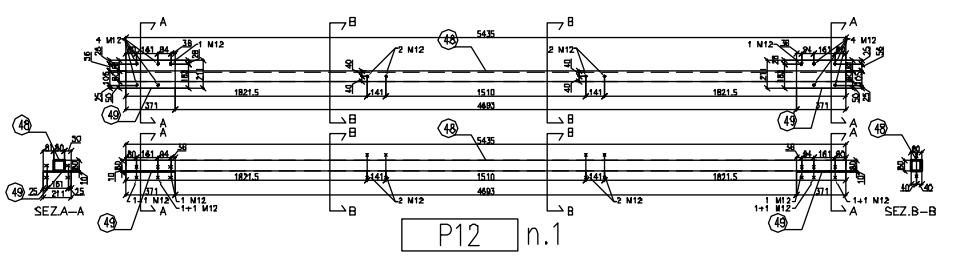
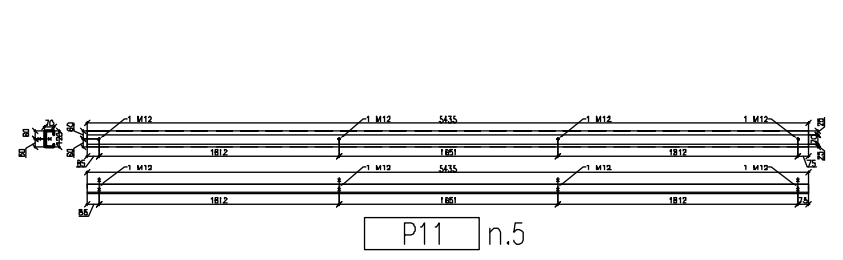
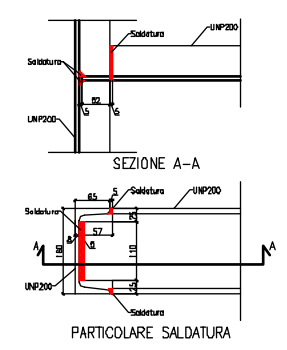
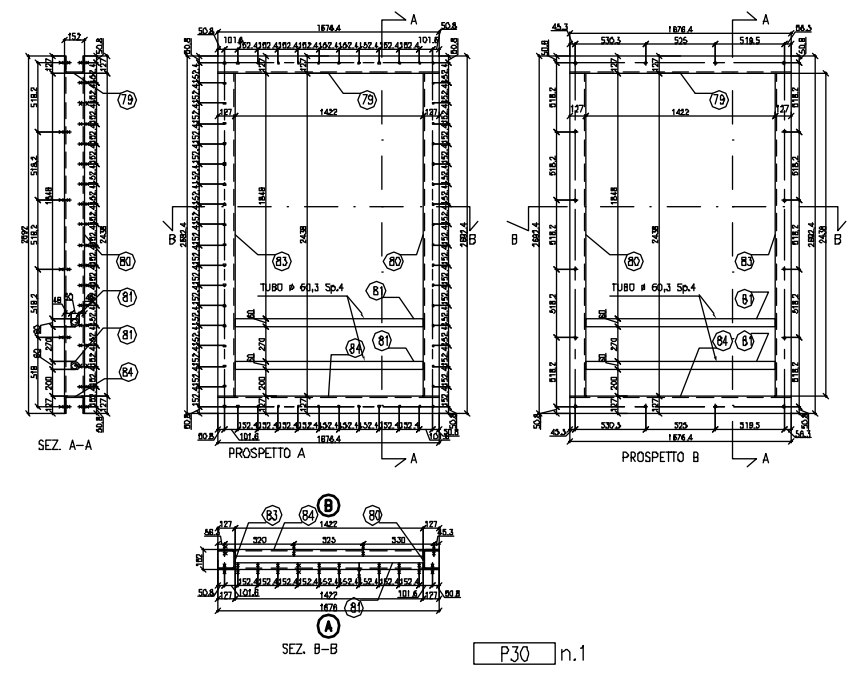
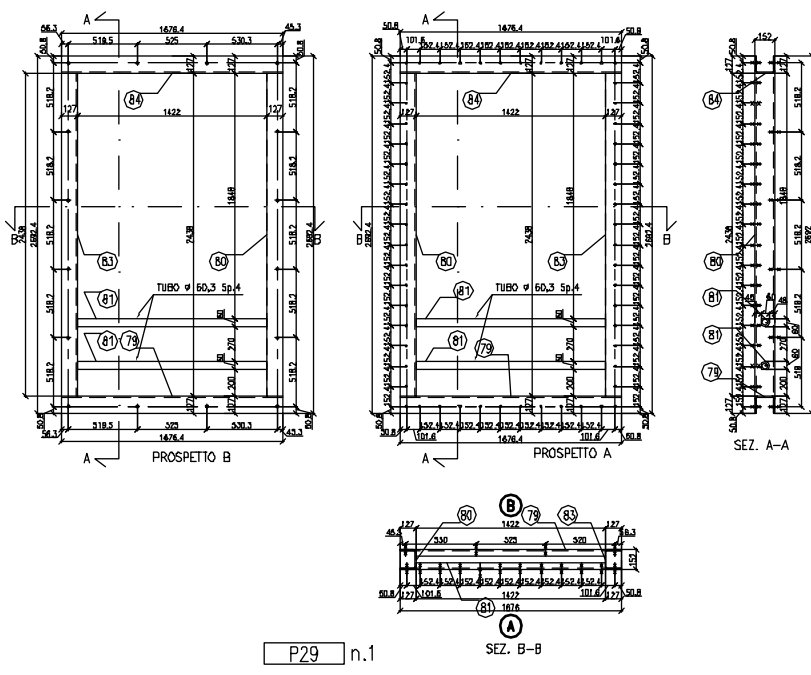
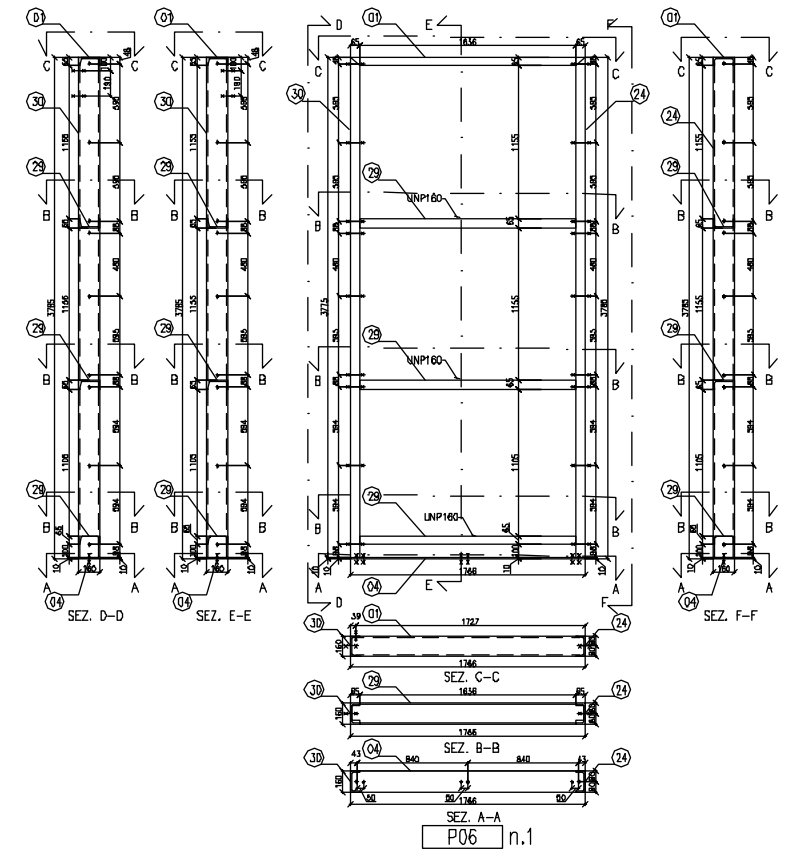
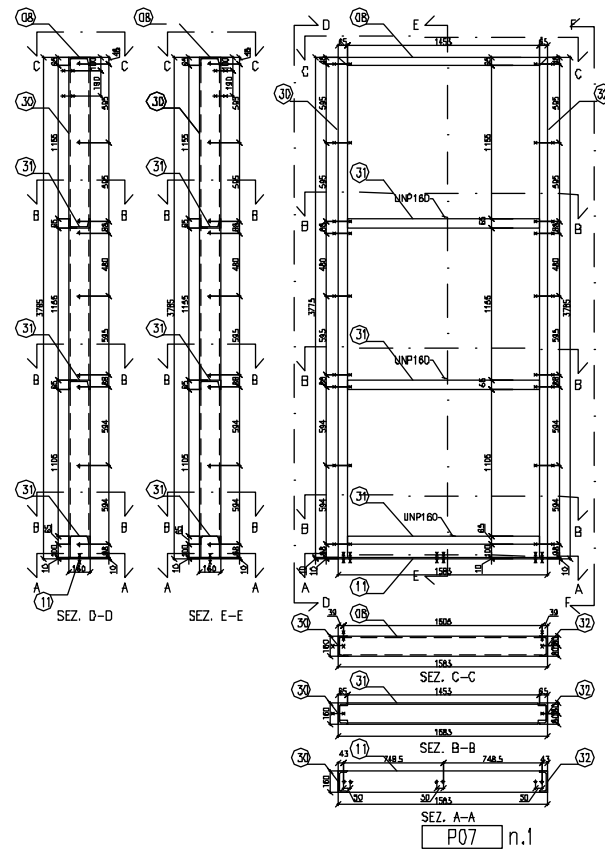
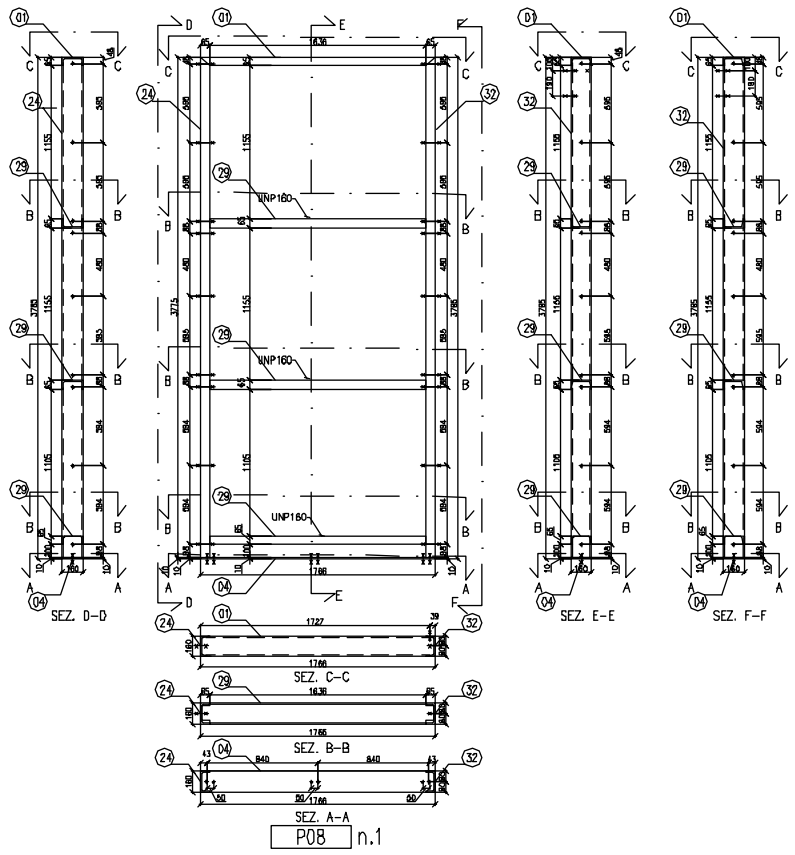
Project information table:

| | | |
|----------------------------|-------------------------------------|--------------|
| Client: CA'ANNACI L. JCCAI | Project: Pianta prospetti e sezioni | Code: 017-03 |
| Scale: 1:50 (S01) | Company: OFFICINE TOSCHI S.P.A. | |
| Date: 15/05/03 | Department: SALA FILTRI | |
| Project Code: 2017-03011 | Architect: SALA FILTRI | |
| Scale: 1:10 (S01) | | |





| | | |
|--|---|--------------------------------|
| CA'ANNACCI L.JCCAN 1944 Program CA 30/04/03 2017-03/016 | Distinta di officina OFFICINE TOSCHI S.P.A. SALA FILTRI | 017-03 S04 L.VARE |
|--|---|--------------------------------|

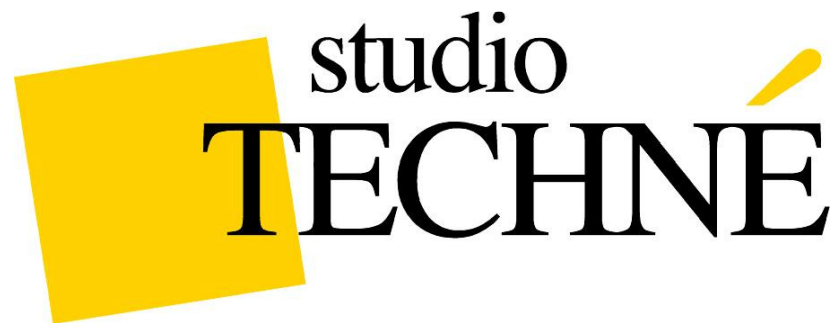


| | | |
|----------|------------------------|--------|
| Client | Distinta di officina | 017-03 |
| Project | OFFICINE | |
| Contract | OFFICINE TOSCHI S.P.A. | |
| Scale | SALA FILTRI | |
| Scale | 1:5, 05, 03 | |
| Scale | 2017-03014 | |
| Project | OFFICINE TOSCHI S.P.A. | |
| Project | OFFICINE TOSCHI S.P.A. | |
| Project | OFFICINE TOSCHI S.P.A. | |
| Project | OFFICINE TOSCHI S.P.A. | |
| Project | OFFICINE TOSCHI S.P.A. | |

S03

LIVARE



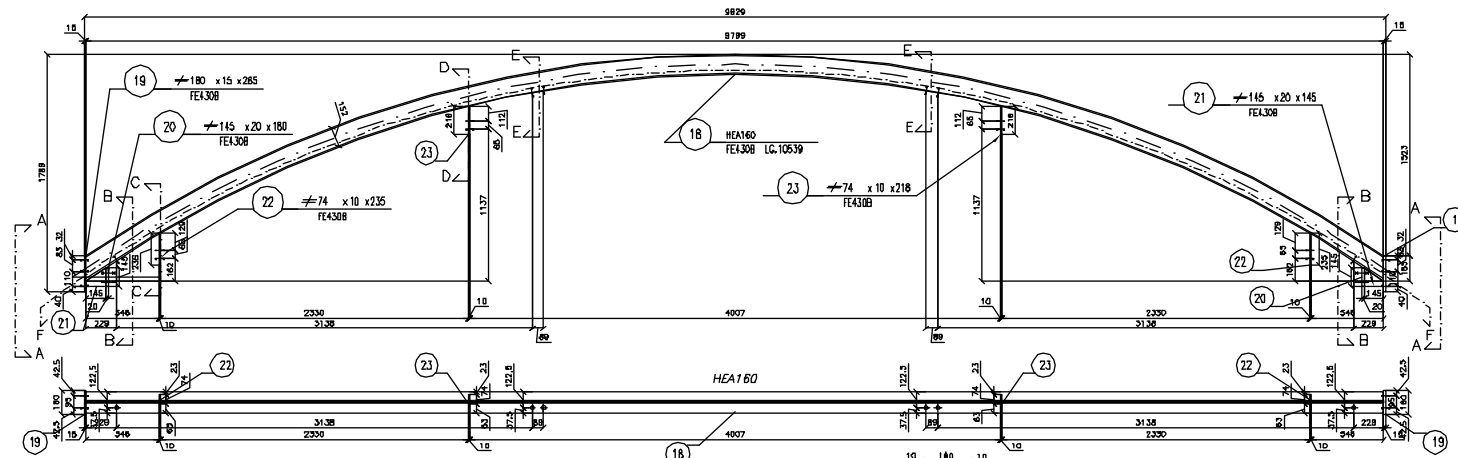


INDUSTRIAL STEEL BUILDING IN BARGA (LU)

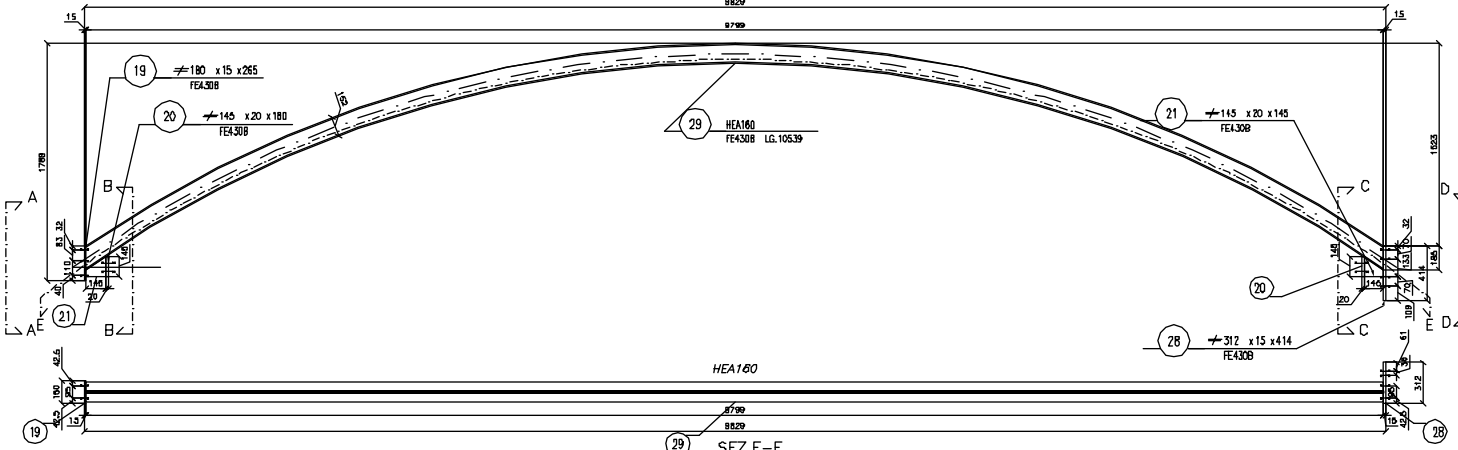
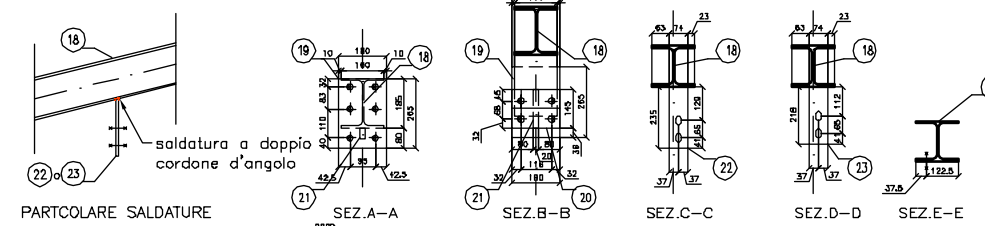
DESCRIPTION: DETAILED DESIGN AND SHOP DETAILING OF A STEEL INDUSTRIAL BUILDING IN BARGA (LU)

CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

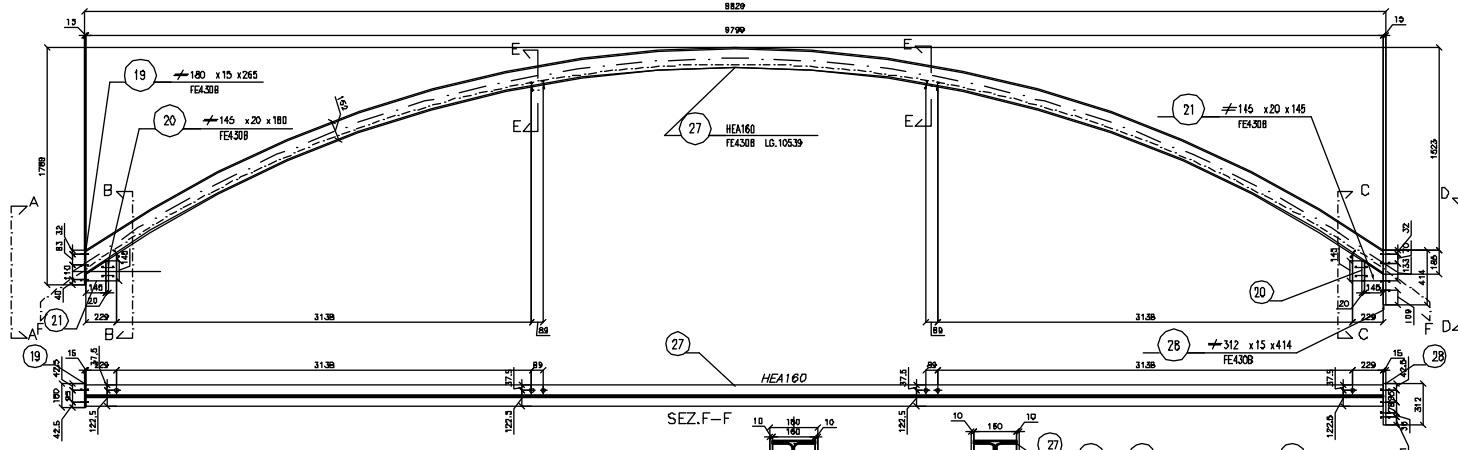
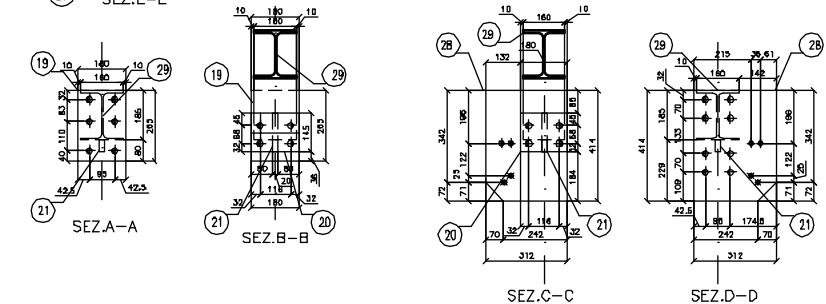
STATUS: BUILT



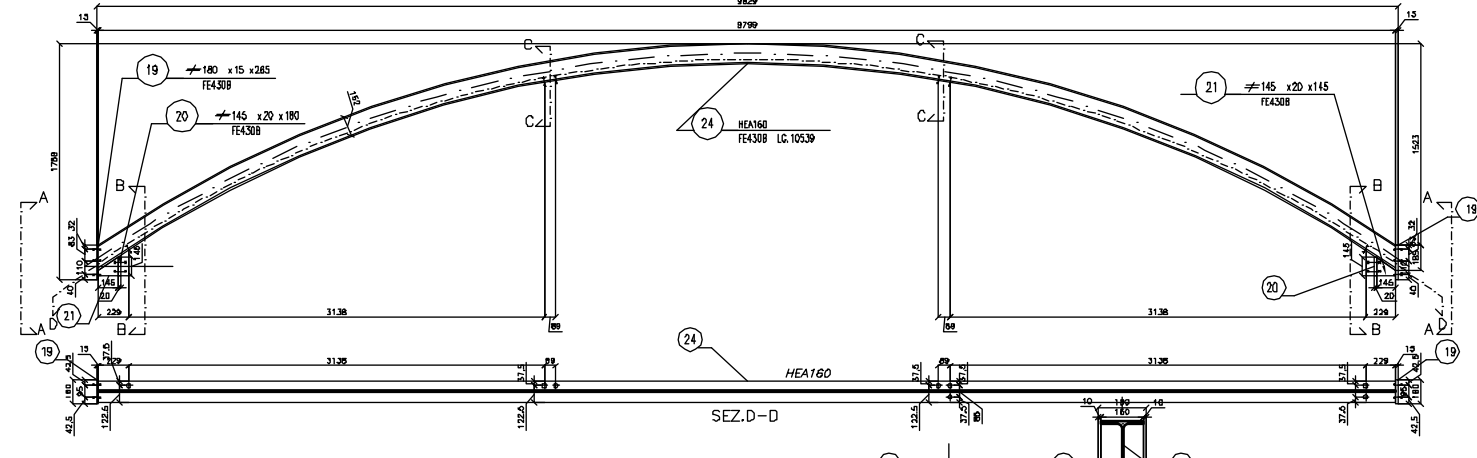
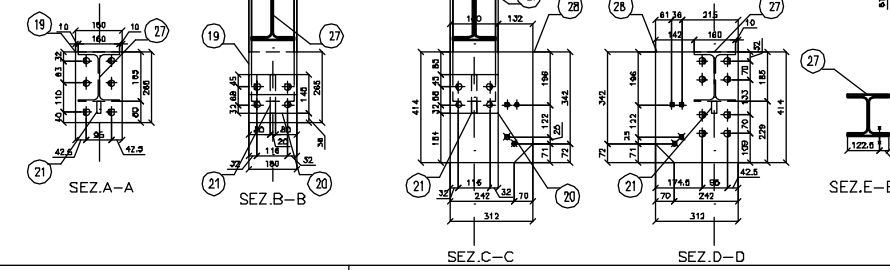
P12 n.3



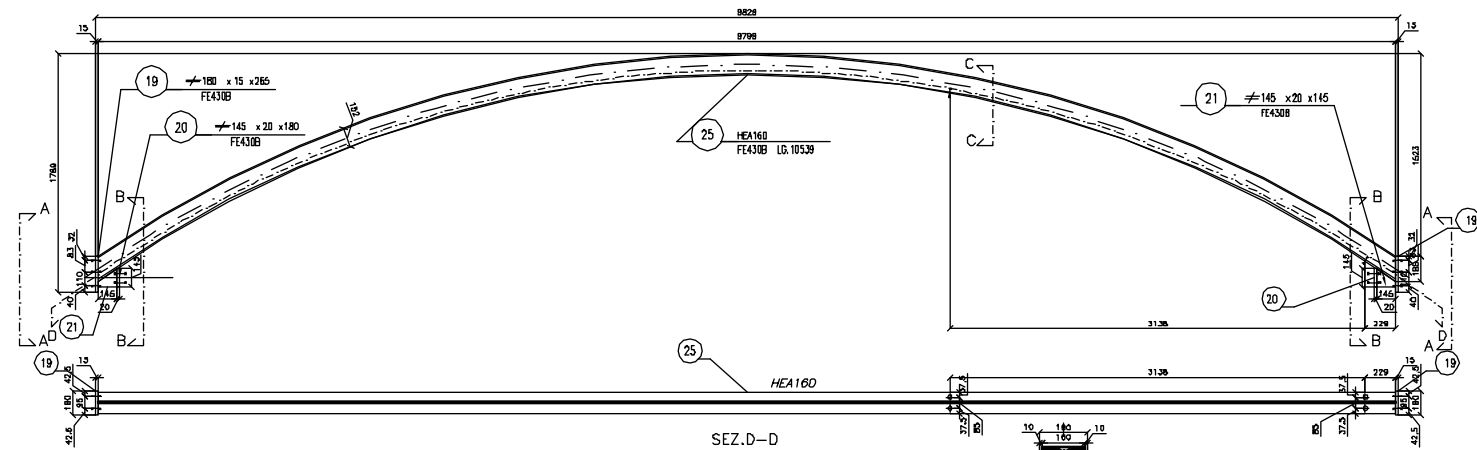
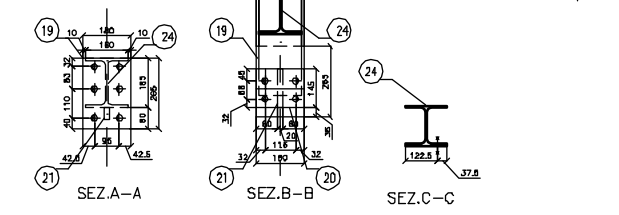
P25 n.1



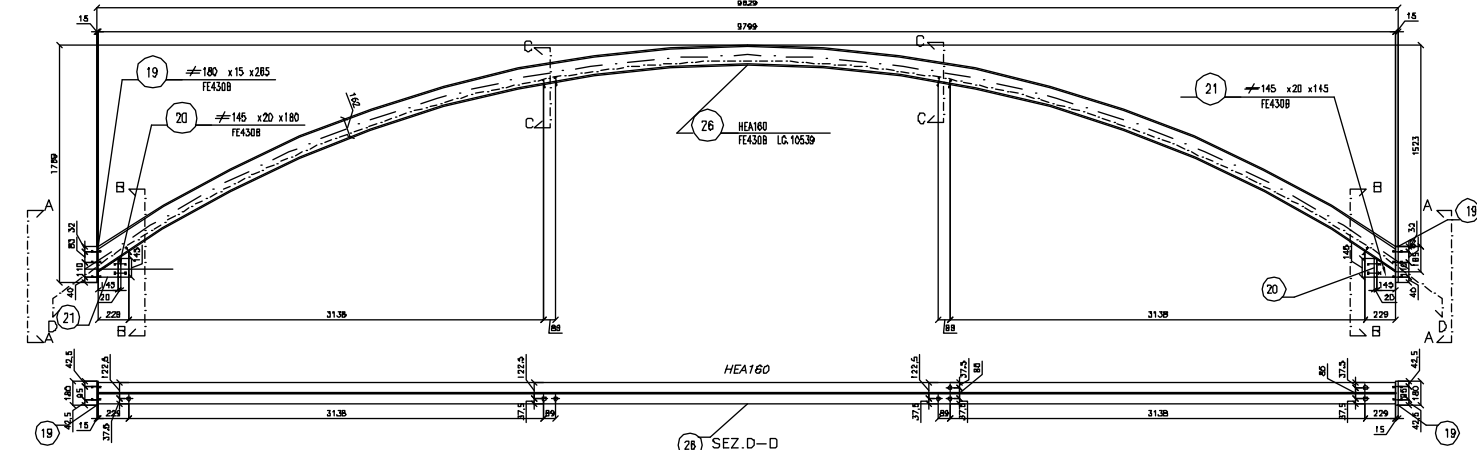
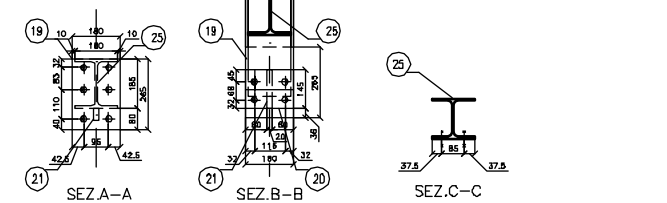
P26 n.1



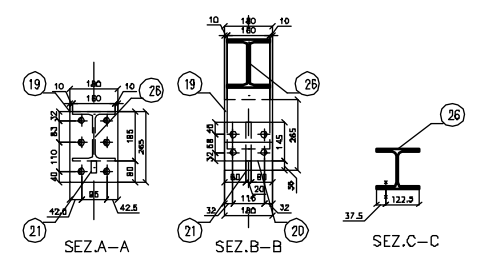
P13 n.1



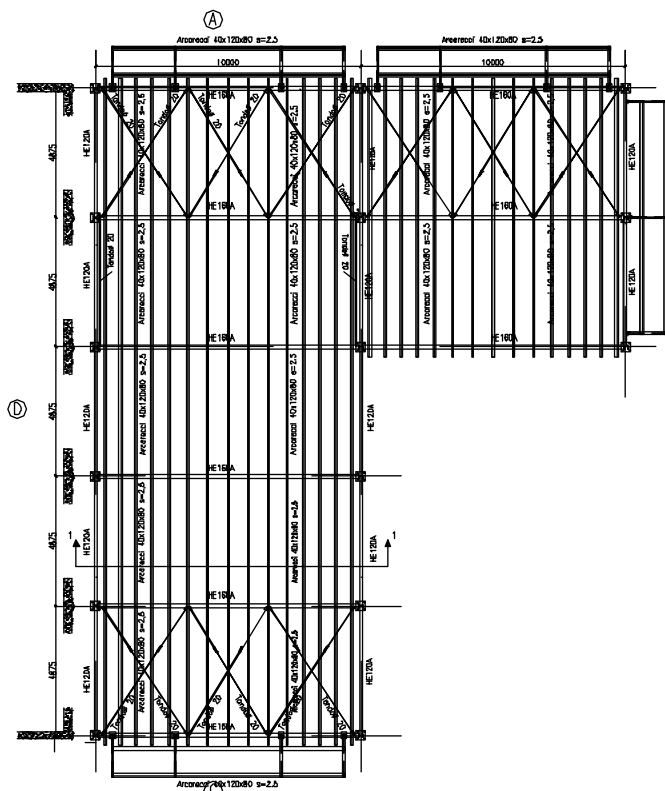
P14 n.2



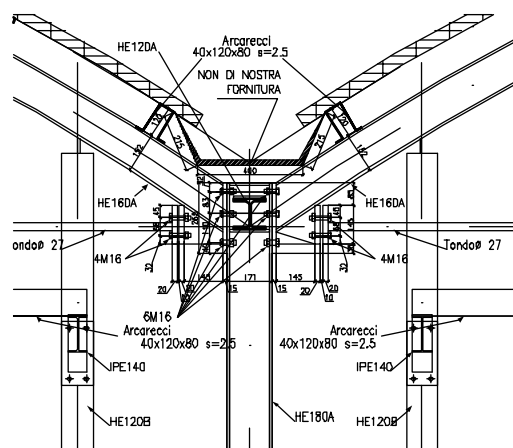
P21 n.1



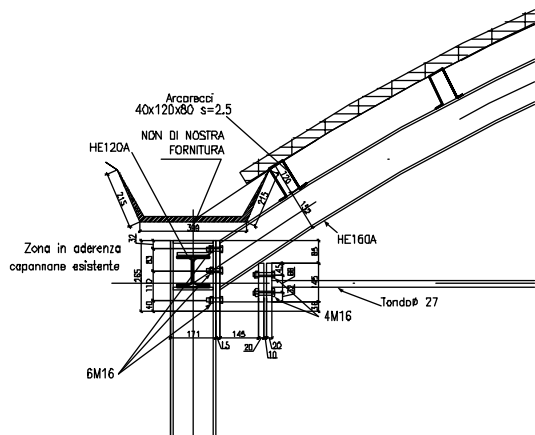
| | | | | |
|--|----------|---|------------|--------------------------------------|
| 0 | 31/07/03 | EMISSIONE | U.T.E. | |
| REVISIONI | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | | | COMMITTEE 332 |
| | | OSTRUZIONI METALLICHE s.r.l. Via Provinciale, 196 Fornaci di Barga (LU) | | TECHNICAL SHEET 332-07 |
| Committente Purchaser | | Società Garfagnana s.r.l. Via Provinciale, 196 Fornaci di Barga (LU) | | Date 31/07/03 |
| Descrizione Description | | EDIFICIO INDUSTRIALE | | Disegnato da Drawn by |
| Utilizzazione Impianto Job location | | Fornaci di Barga (LUCCA) | | Responsabile commessa Job manager |
| Titolo Title | | Distinta d'officina - travi curve | | Approvato approved by |



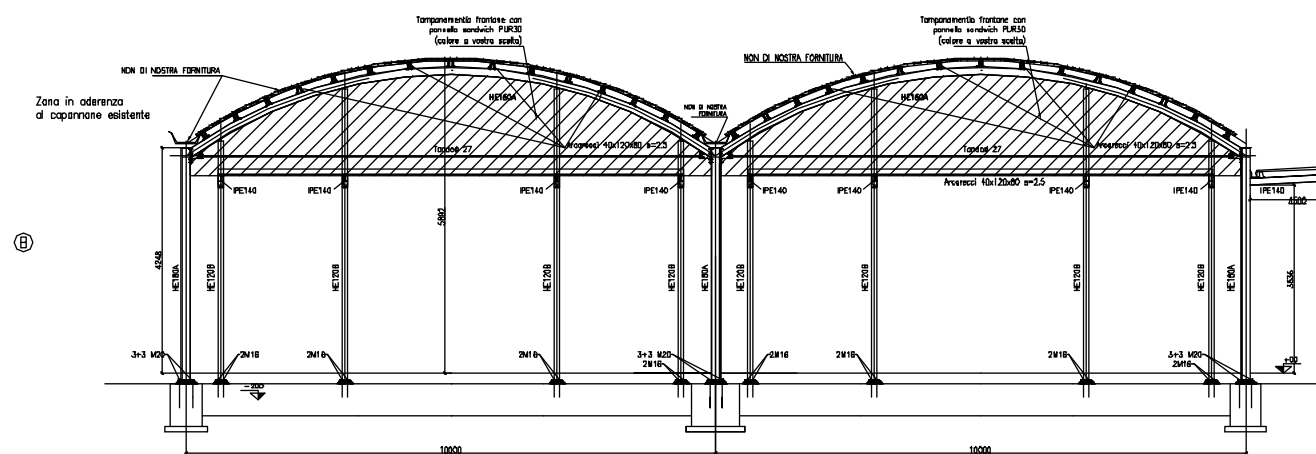
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01 PIANTA DELLA COPERTURA
Scala: 1:100



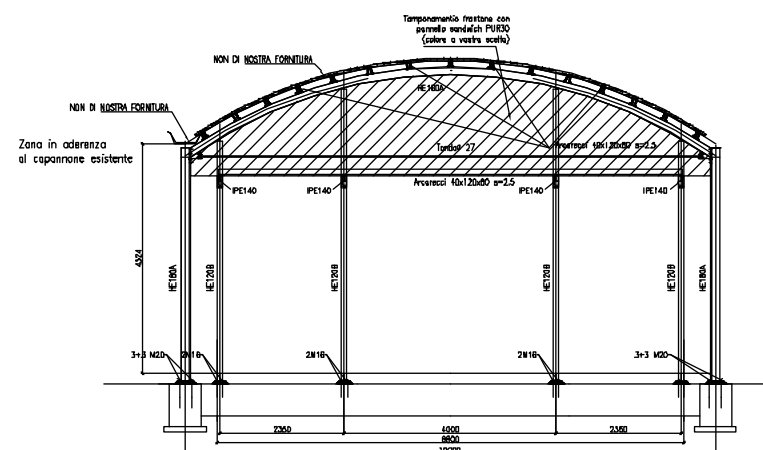
5
01 PARTICOLARE INPLUVIO
Scala: 1:10



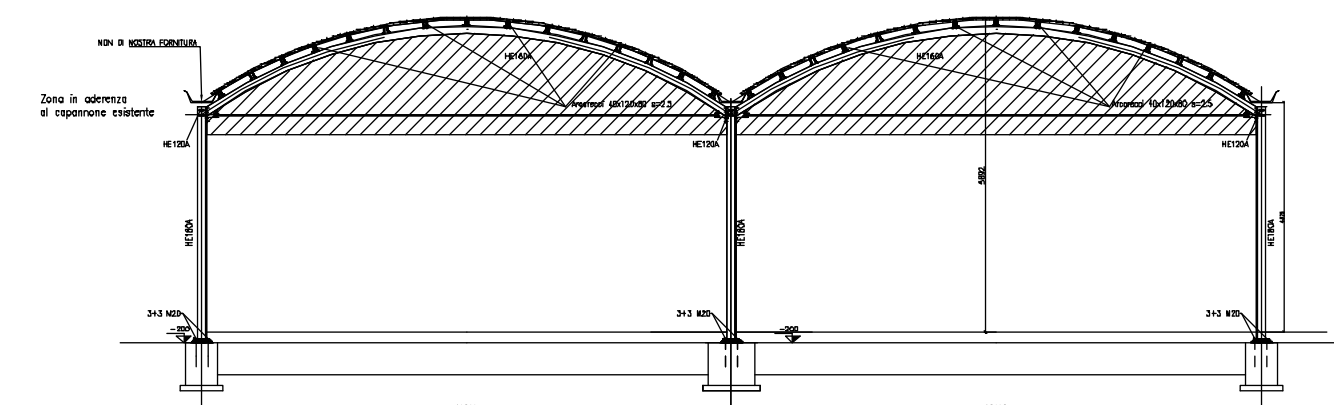
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01 INCASTRO TRAVE-COLONNA
Scala: 1:10



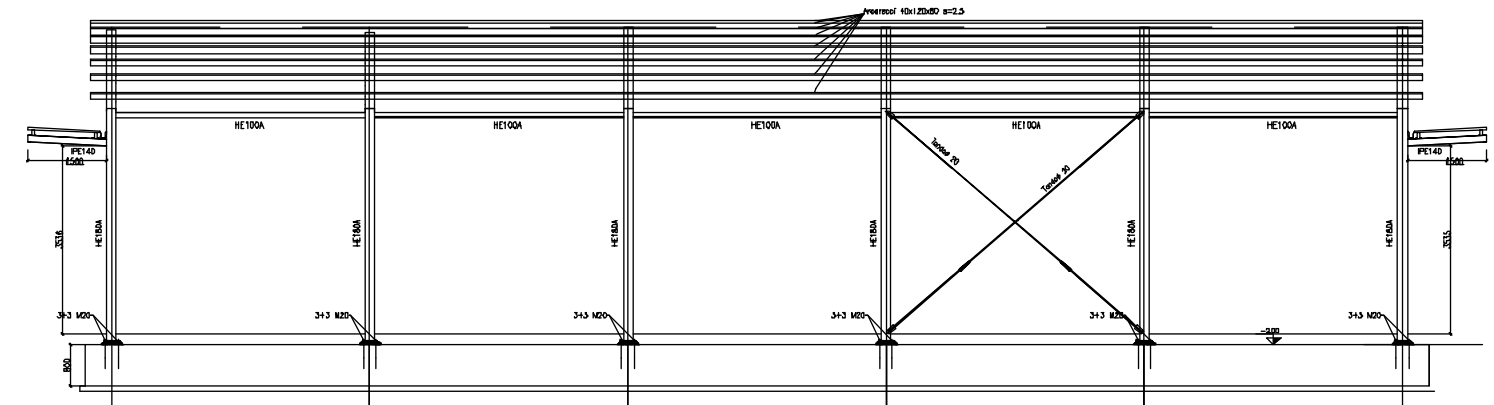
3
01 PROSPETTO FRONTALE A
Scala: 1:20



4
01 PROSPETTO FRONTALE C
Scala: 1:20



7
01 SEZIONE 2
Scala: 1:20



8
01 PROSPETTO LATERALE D
Scala: 1:20

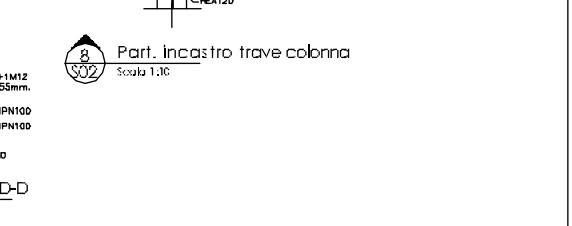
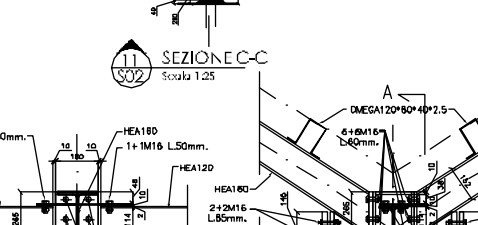
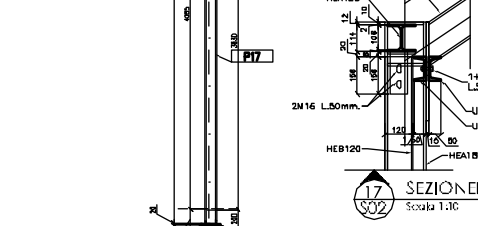
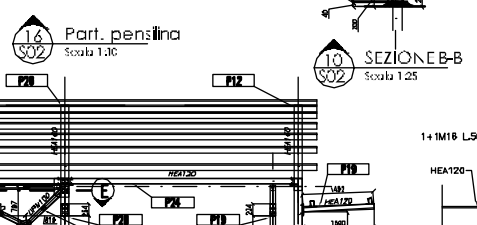
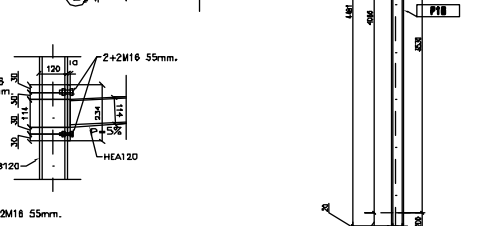
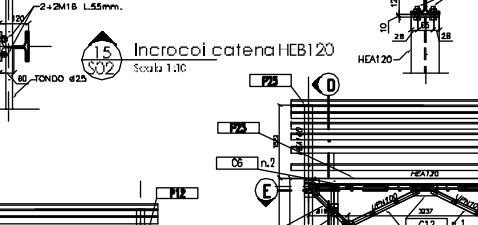
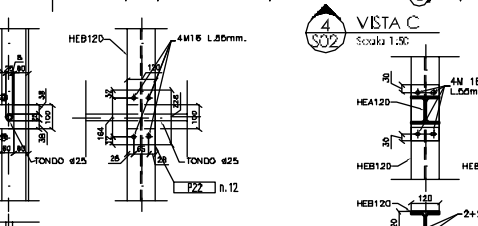
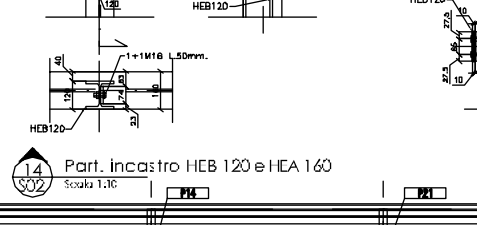
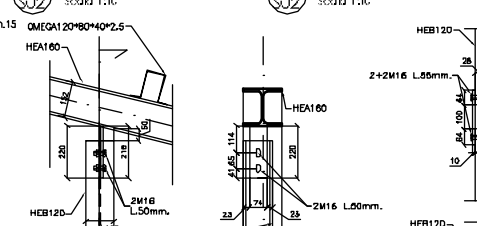
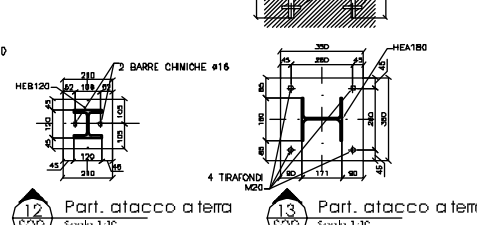
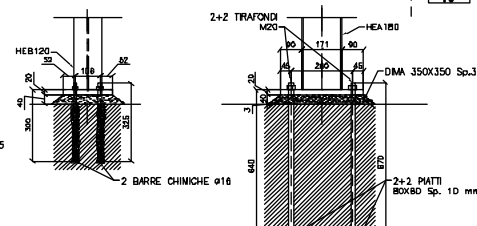
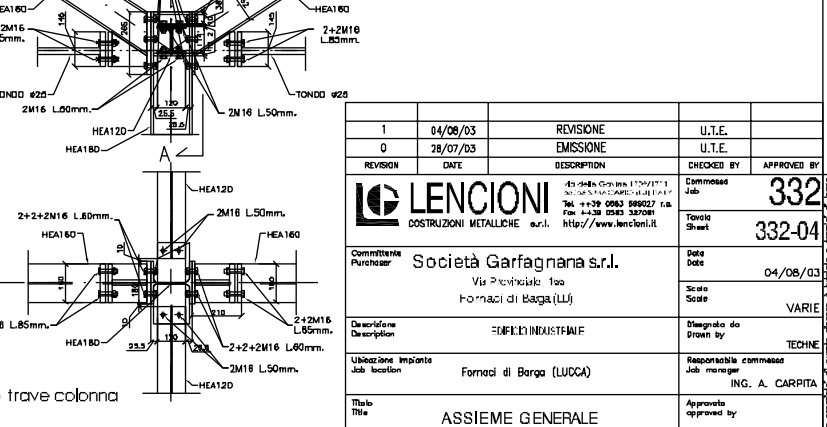
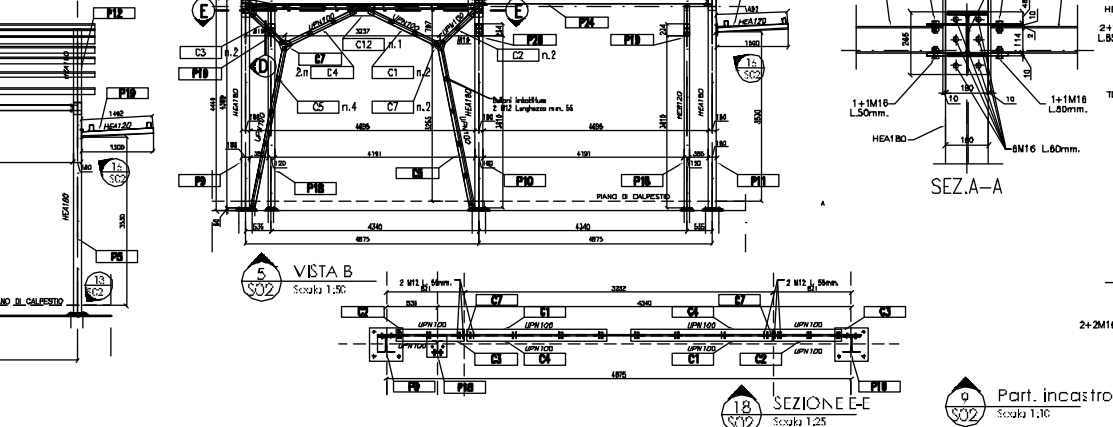
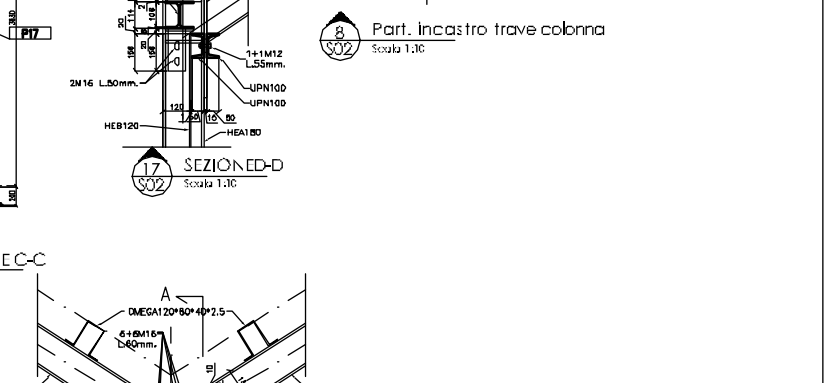
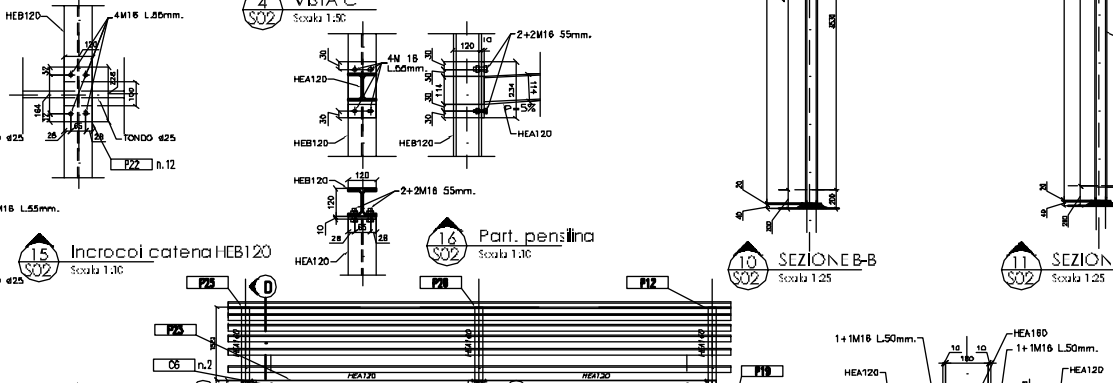
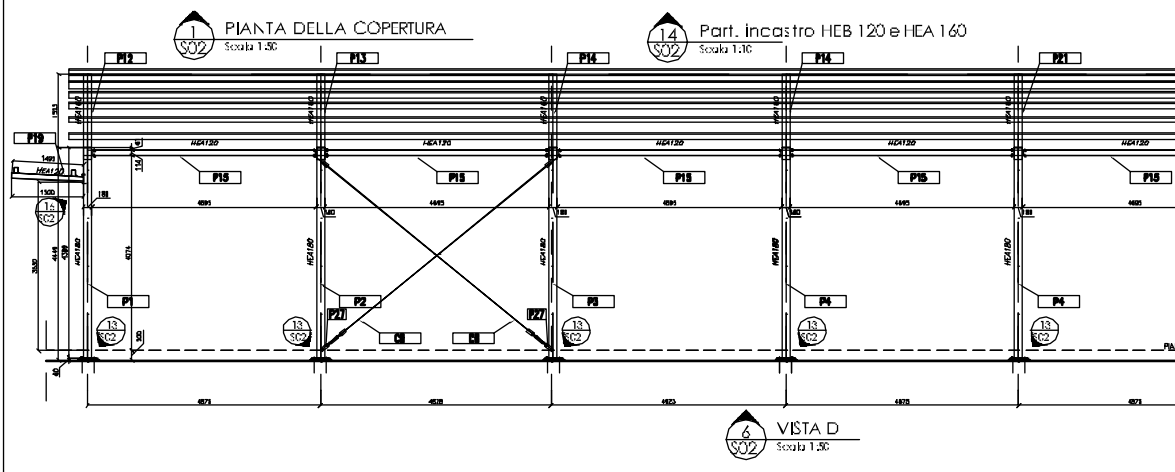
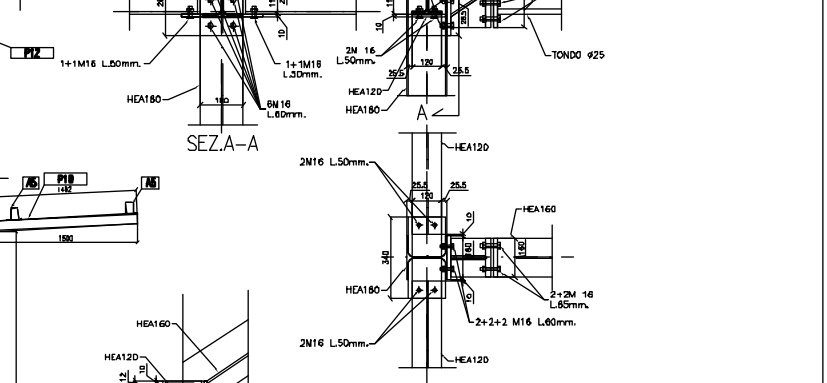
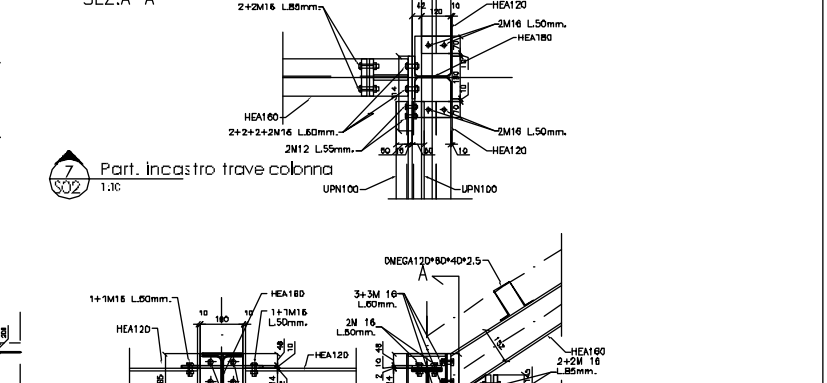
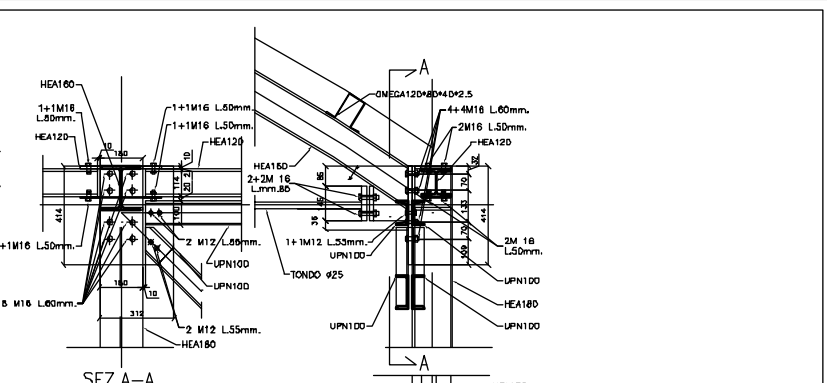
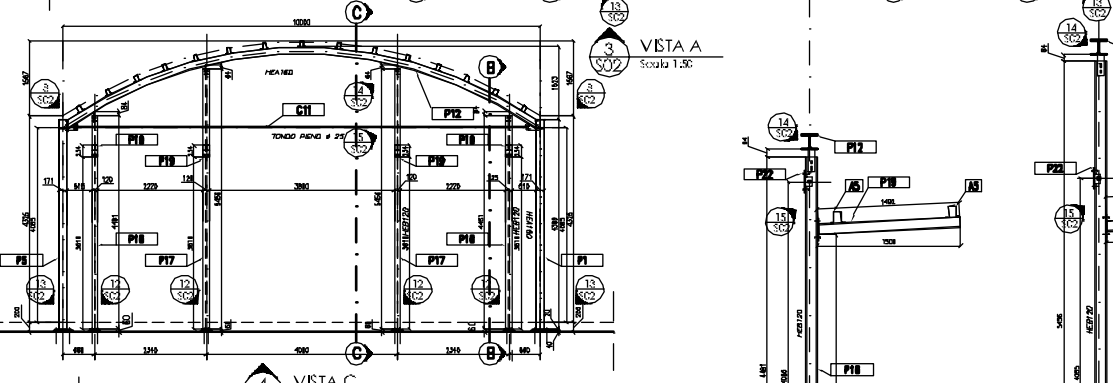
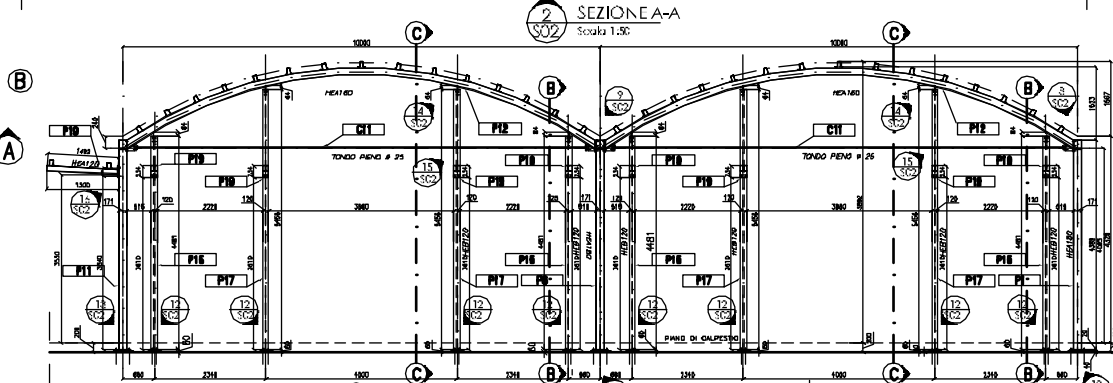
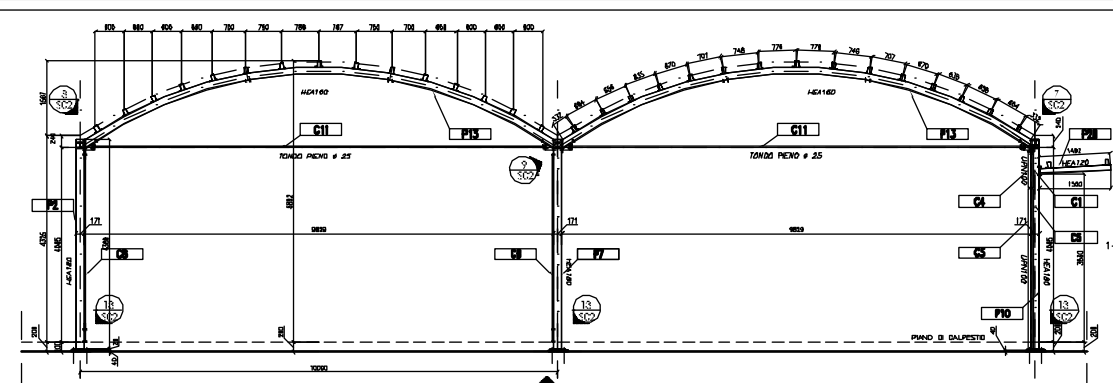
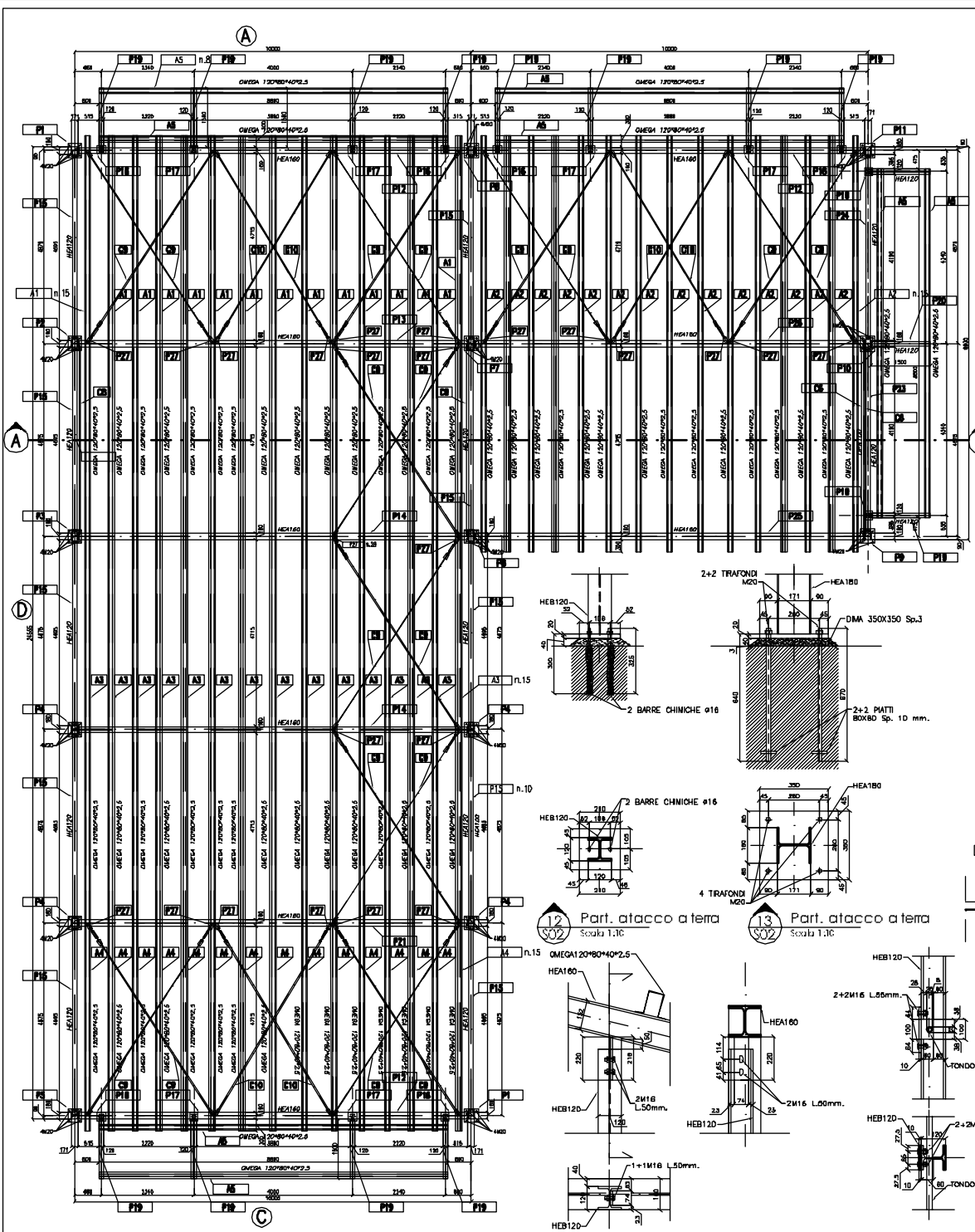
11
01 PARTICOLARE COLLEGAMENTO MONTANTE
Scala: 1:10

10
01 PARTICOLARE PENSILINA FRONTALE
Scala: 1:20

6
01 SEZIONE 1
Scala: 1:20

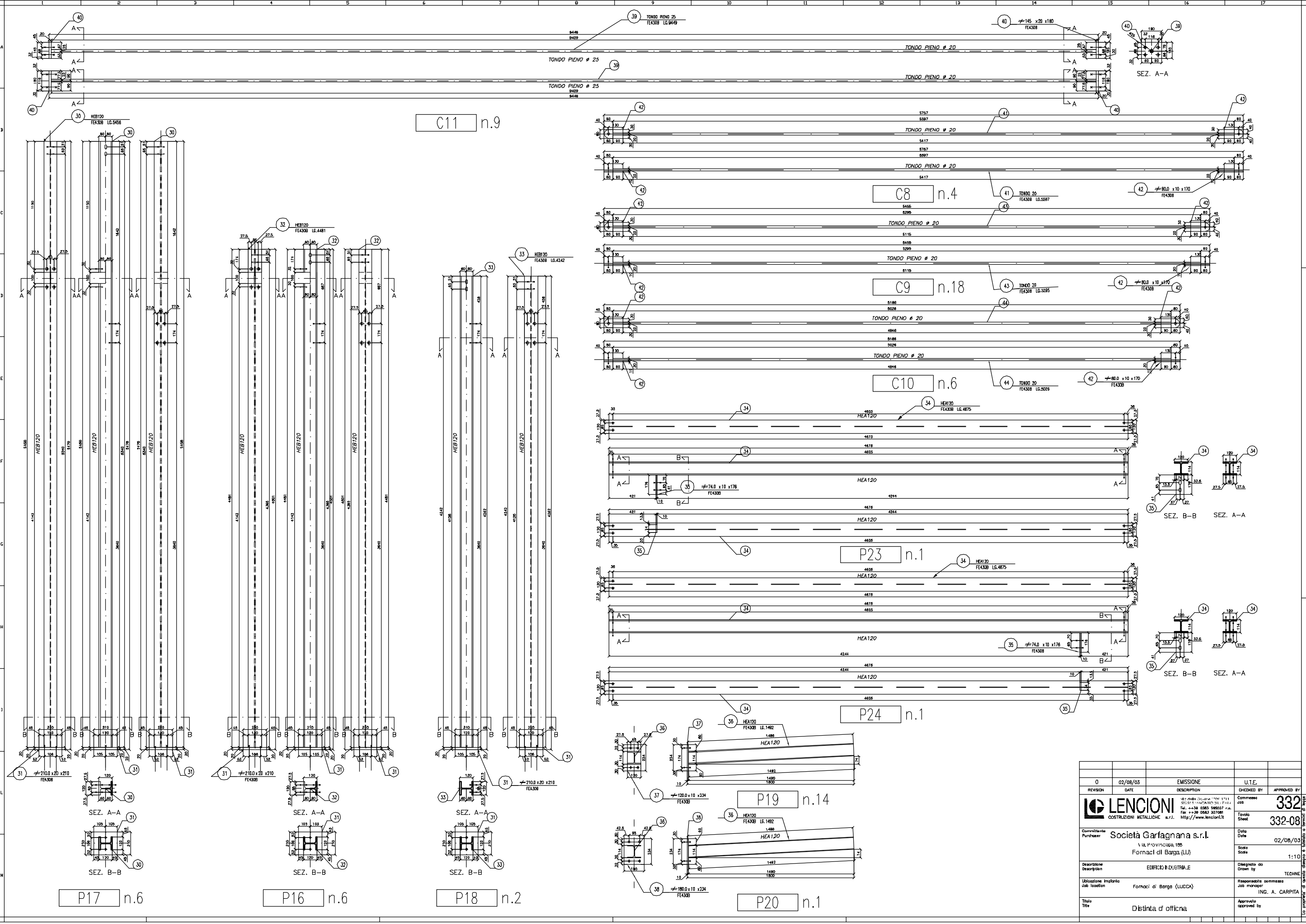
9
01 PROSPETTO LATERALE B
Scala: 1:20

| | | | | |
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| 1 | 18/07/03 | REVISIONE | U.T.E. | |
| 0 | 2/07/03 | EMISSIONE | U.T.E. | |
| REVISIONI | DATE | DESCRIZIONE | CHIEDEDA BY | APPROVED BY |
| | | | M2: 0448,00 - 0448,00 - 1711 0555 - 0555 - 0555 - 0555 Tel. ++39 0583 50027 r.a. Fax ++39 0583 307081 http://www.lenzioni.it | 332 Commessa 332 |
| Committente Purchaser | Società Garfagnana s.r.l. Via Provinciale, 195 Fornaci di Barga (LU) | | Data Date | 18/07/03 |
| Descrizione Description | EDIFICIO INDUSTRIALE | | Disegnato da Drawn by | TECHNICAL |
| Utilizzazione Impianto Job location | Fornaci di Barga (LUCCA) | | Responsabile commessa Job manager | LENZIONI |
| Titolo Title | Assieme generale | | Approvato approved by | |



| REVISIONE | DATE | DESCRIZIONE | CHECKED BY | APPROVED BY |
|-----------|----------|-------------|------------|-------------|
| 1 | 04/08/03 | REVISIONE | | U.T.E. |
| 0 | 28/07/03 | EMISSIONE | | U.T.E. |

| | | | |
|---|---|--|--|
| LENIONI DISTRUZIONI METALLICHE s.r.l. | | 43-54840 - Via S. Maria 11707171 05039-05039-05039-05039 Tel. +39 0563 999027 r.a. Fax +39 0563 530708 http://www.lenioni.it | |
| Committente Purchaser | Società Garfagnana s.r.l. Via Provinciale 100 Fornaci di Barga (LU) | | |
| Descrizione Description | FORNICI INDUSTRIALI | | |
| Ubicazione impianto Job location | Fornaci di Barga (LUCCA) | | |
| Disegnato da Drawn by | ING. A. CARPITA | | |
| Verificato da Checked by | ING. A. CARPITA | | |
| Approvato da Approved by | ING. A. CARPITA | | |



C11 n.9

C8 n.4

C9 n.18

C10 n.6

P23 n.1

P24 n.1

P19 n.14

P20 n.1

P17 n.6

P16 n.6

P18 n.2

| | | | | |
|--|----------|---|------------|--|
| 0 | 02/08/03 | EMISSIONE | U.T.E. | |
| REVISIONI | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | | | Commessa 332 |
| | | OSTRUZIONI METALLICHE s.r.l. Via Provinciale, 195 Fornaci di Barga (LU) | | Foglio 332-08 |
| Committente Purchaser | | Società Garfagnana s.r.l. Via Provinciale, 195 Fornaci di Barga (LU) | | Data Date 02/08/03 |
| Descrizione Description | | EDIFICIO INDUSTRIALE | | Disegnato da Drawn by TECHNICAL |
| Utilizzazione Impianto Job location | | Fornaci di Barga (LUCCA) | | Responsabile commessa Job manager ING. A. CARPITA |
| Titolo Title | | Distinta d' officina | | Approvato approved by |



REDEVELOPMENT OF THE S.MARTINO GEOTHERMAL PLANT

DESCRIPTION: CIVIL STRUCTURAL AND FACADE SERVICES FOR THE ARCHITECTURAL REDEVELOPMENT OF THE S.MARTINO GEOTHERMAL PLANT IN MONTEROTONDO (GR).

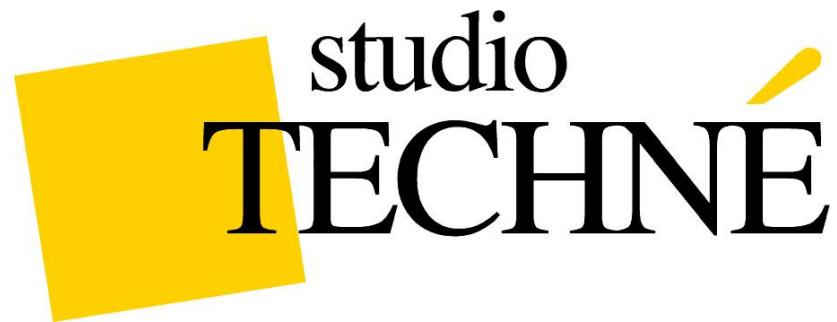
CLIENT: ENEL S.P.A.

STATUS: BUILT







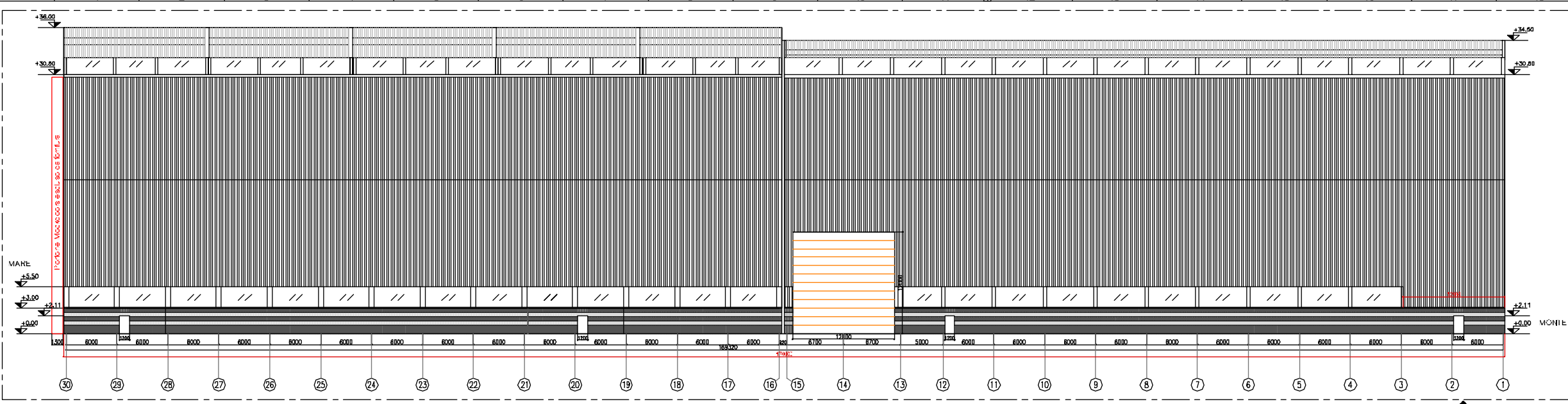


FINCANTIERI MEGAYACHT PRODUCTION FACILITY

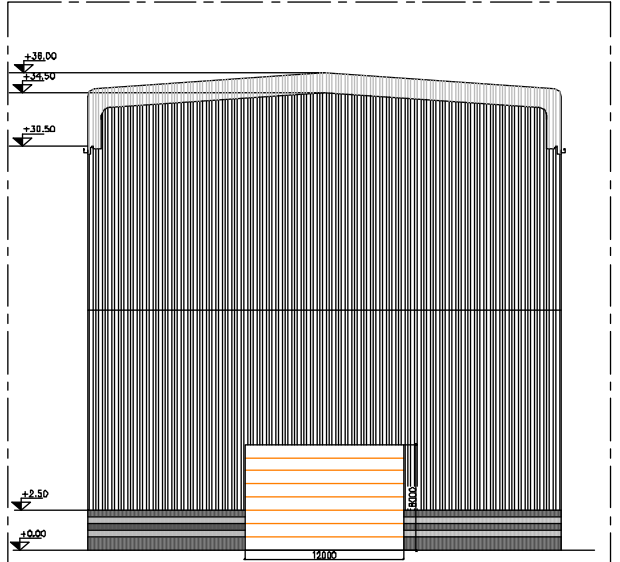
DESCRIPTION: DETAILED DESIGN OF THE FINCANTIERI MEGAYACHT PRODUCTION FACILITY IN MUGGIANO (SP) – THE STRUCTURE FEATURES TWO X 50 TONN ES CRANES AND A SLIDING ROOF

CLIENT: COMETAL S.P.A. - PARMA

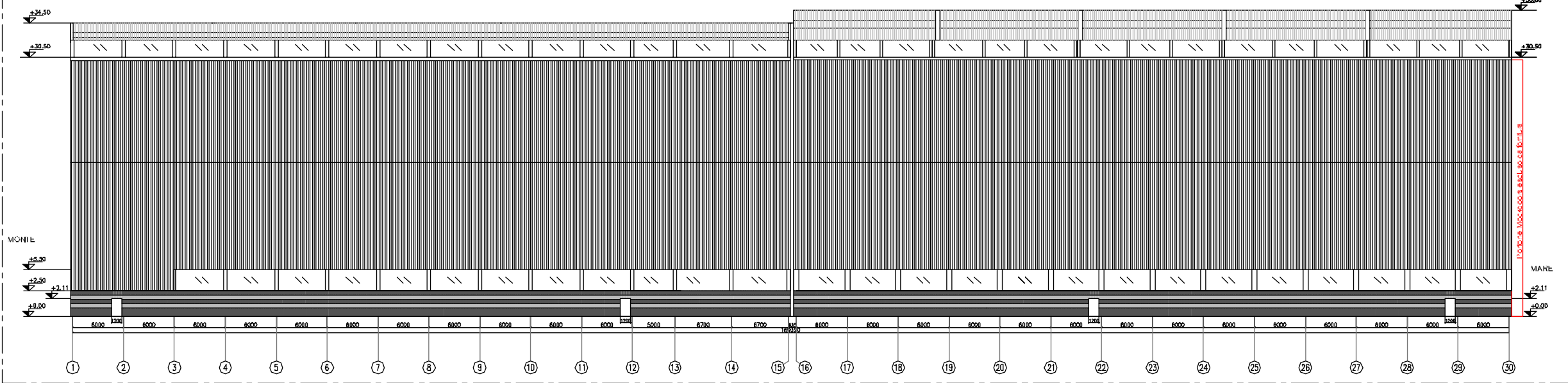
STATUS: BUILT



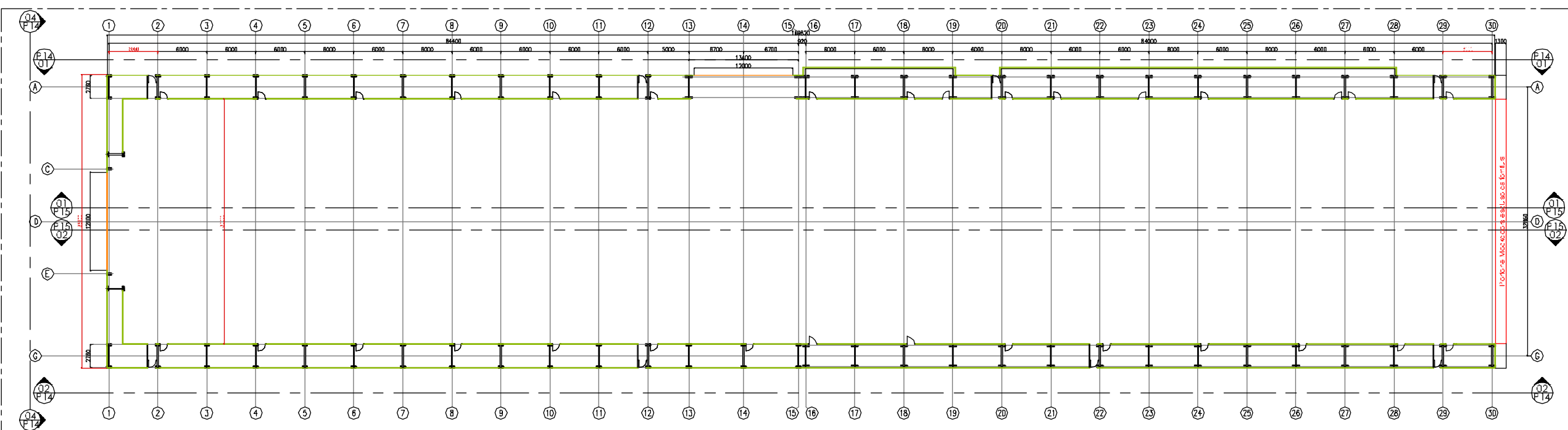
01 PROSPETTO
P14
Scala 1:200



04 PROSPETTO
P14
Scala 1:200



02 PROSPETTO
P14
Scala 1:200



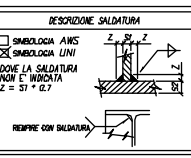
03 PIANTE
P14
Scala 1:200

- 1) ACCIAIO PER CARPENTERIA METALLICA:
- S275JR - S355D PROFILI LAMINATI
 - 2) ACCIAIO PER TRAFONDI:
- S275JR - PER COLONNE PRINCIPALI E COLONNE DI BARACCATURA
 - 3) BULLONE:
- Classe 8.8 (UNI 5737) CON DOPIA RONDELLA E DADI 6.5 - TRATTAMENTO ZINCATURA A FREDDO
- NOTE: TUTTE LE QUOTE SONO ESPRESSE IN mm.

PRESCRIZIONE PER L'ESECUZIONE DELLE SALDATURE, COME DA PIANO DI SALDATURA SS N. 793-001

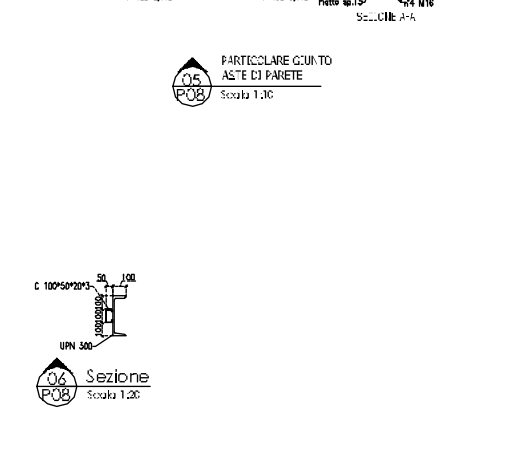
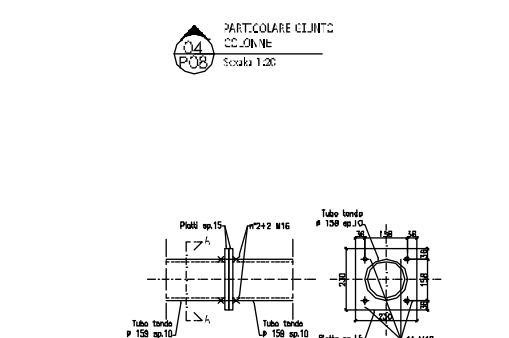
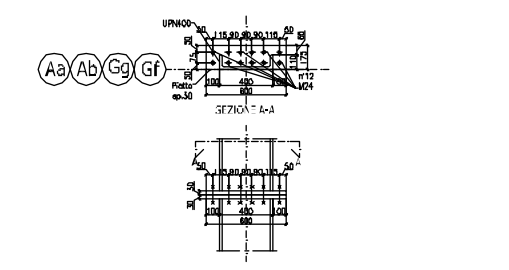
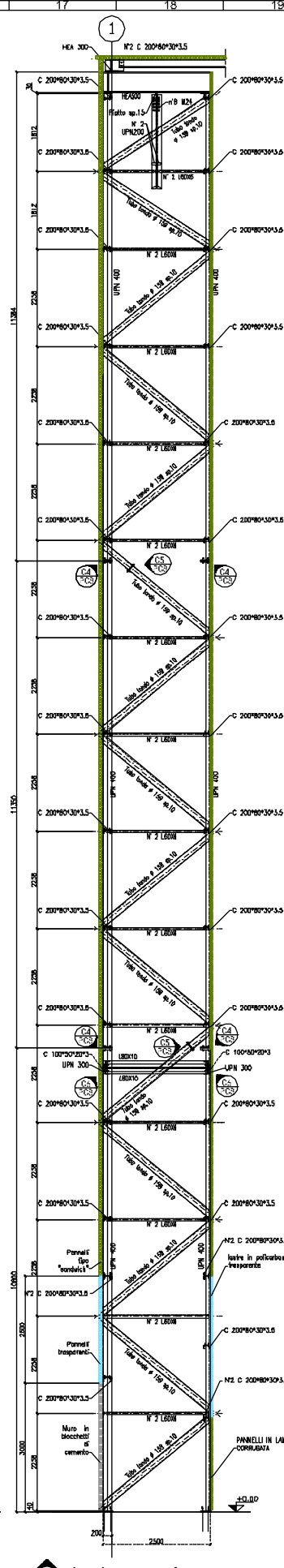
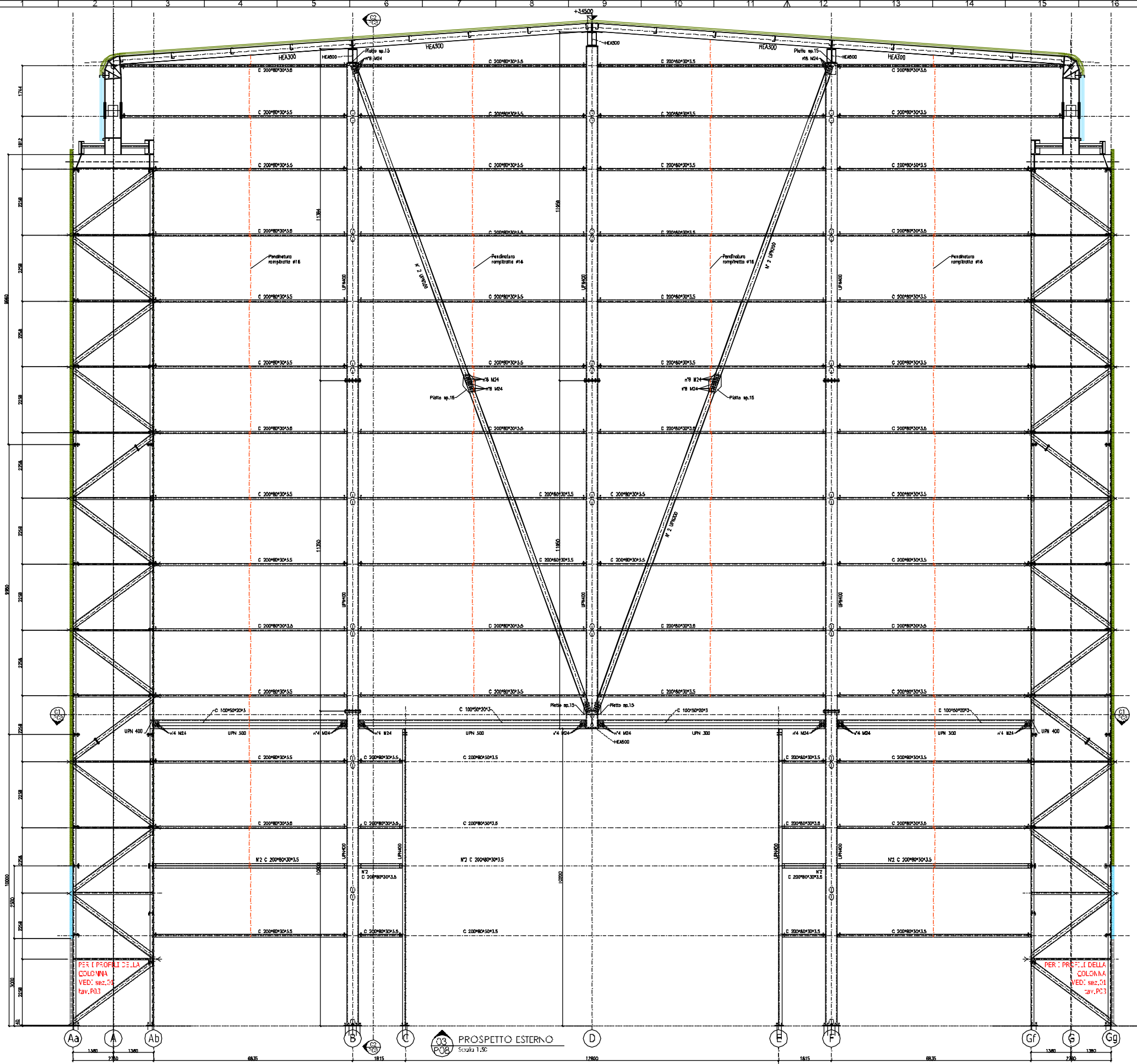
PRESCRIZIONI PER I CONTROLLI FINALI (VISIVO, DIMENSIONALE, NON DISTRUTTIVO) COME DA PCQ. 793-001

OGGETTO DELLA MODIFICA:



| CONTROLLO | DATA | ASSICURAZ. QUALITA' | DATA | OPER. PROGETTAZ. | DATA |
|-----------|------|---------------------|------|------------------|------|
| Disegn. | | | | | |
| Verif. | | | | | |
| Aut. | | | | | |

Data: 28/01/2007
 Scale: 1:200
 Foglio: P14
 Numero: 793
 Cliente: **FINCANTIERI**
 Indirizzo: VIALE GARIBOLDI, 10 - 40138 BOLOGNA (BO)
 Telefono: +39 051 236011
 Fax: +39 051 236042
cometal architetture in acciaio
 43055 CASALE DI MEZZANI (PR) - ITALY
 PROSPETTI ESTERNI
 PIANTE +1,00m



1) ACCIAIO PER CARPENTERIA METALLICA:
- S275JR - S355JO PROFILI LAMINATI E LAMIERE

2) ACCIAIO PER TRAFONDI:
- S275JR

3) BULLONI:
- Classe 8.8 (UNI 5737) CON DOPPIA RONDELLA E DADI 6.5 - TRATTAMENTO ZINCATURA A FREDDO

NOTE: TUTTE LE QUOTE SONO ESPRESSE IN mm.

PRESCRIZIONE PER L'ESECUZIONE DELLE SALDATURE, COME DA PIANO DI SALDATURA SS N. 793 - 001

PRESCRIZIONI PER I CONTROLLI FINALI (VISIVO, DIMENSIONALE, NON DISTRUTTIVO) COME DA PCQ. 793 - 001

SEZIONE SALDATURA

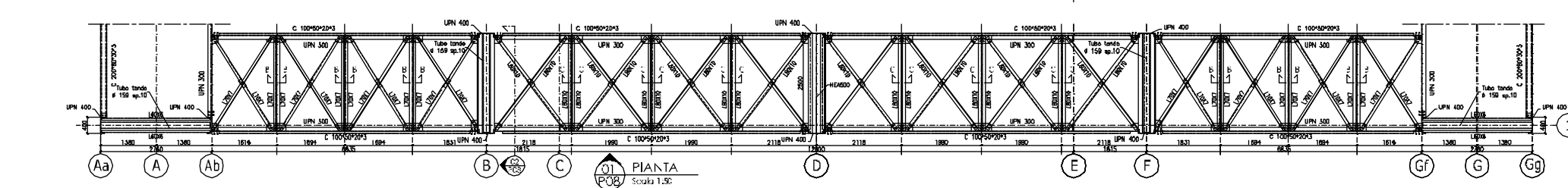
OMBOLOGIA AWS
 OMBOLOGIA UNI
DOVE LA SALDATURA NON E' INDICATA E = ST - 02

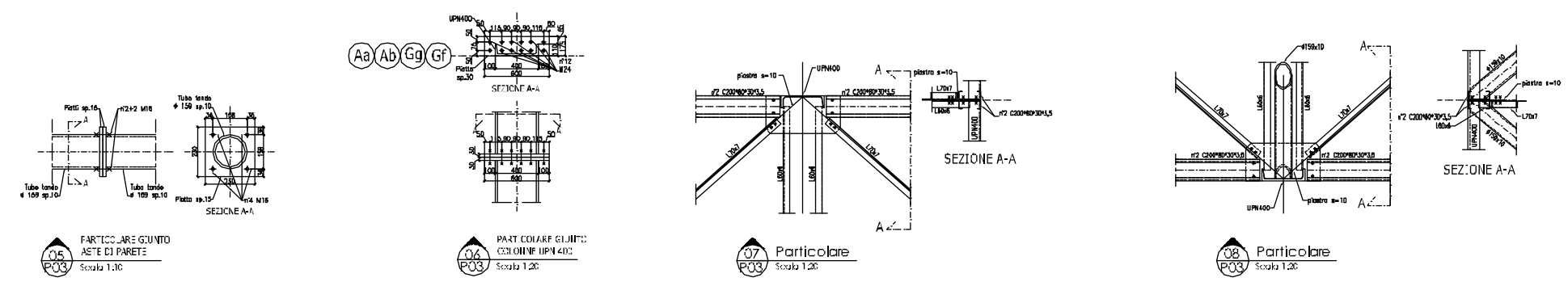
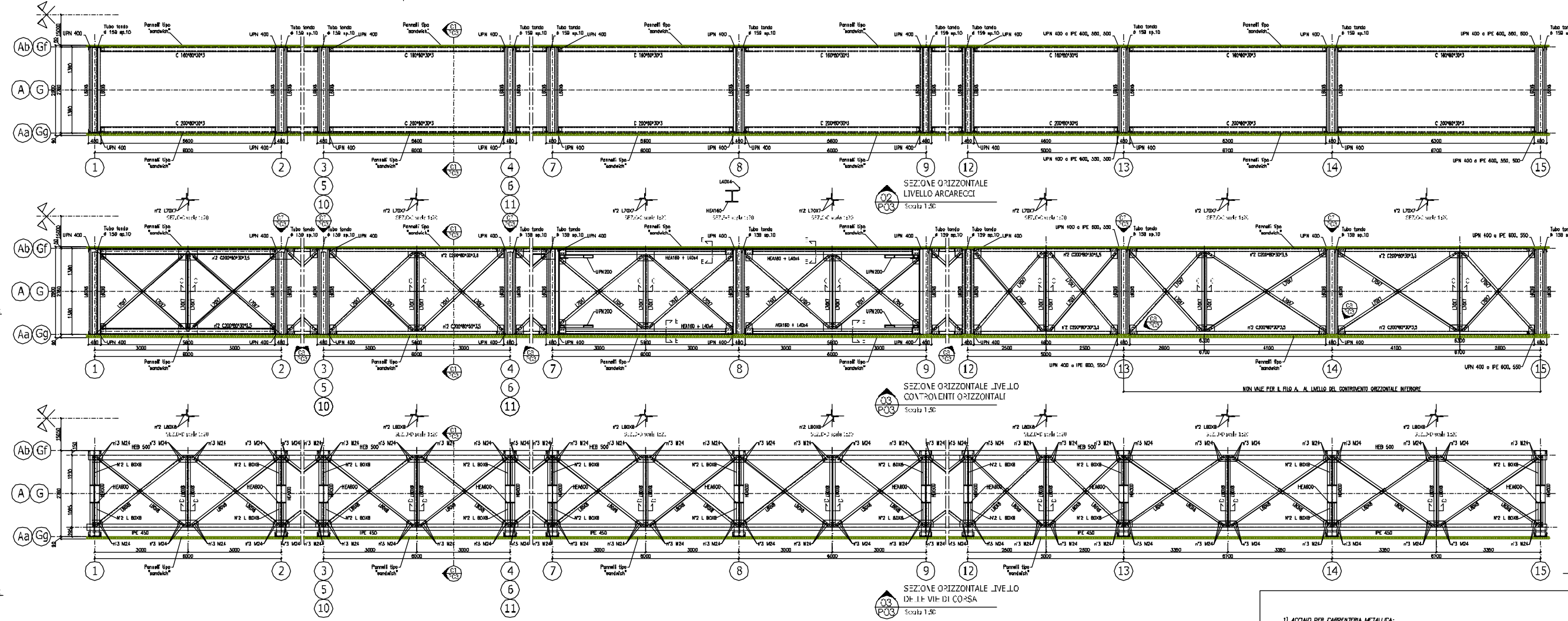
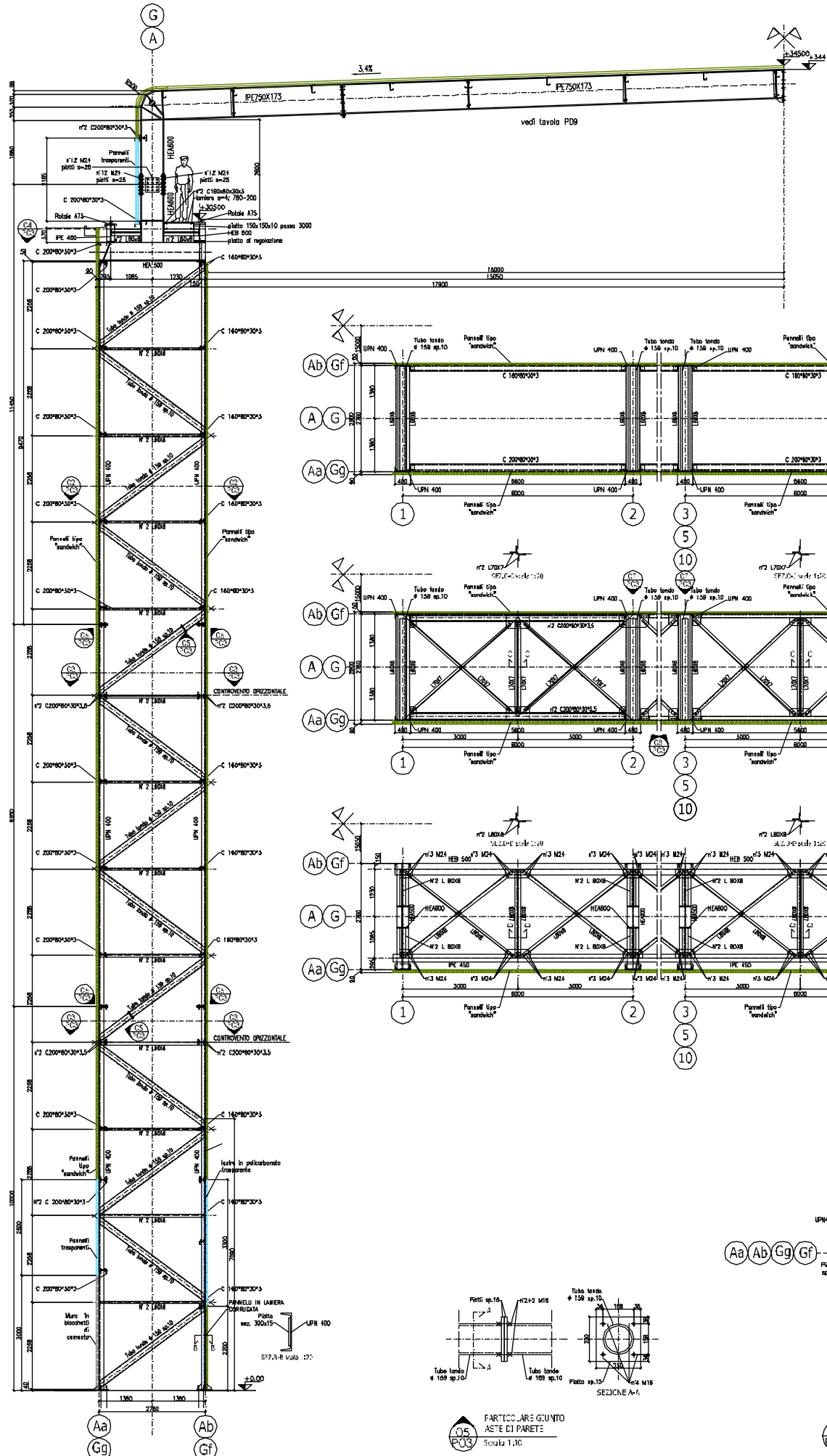
RESINE CON INIBITORI

OGGETTO DELLA MODIFICA:

| CONTROLLI DISegni | DATA | ASSICURAZ. QUALITA' | DATA | PREZ. PROGETTAZ. | DATA |
|-------------------|------|---------------------|------|------------------|------|
| | | | | | |

n. 4: **P08** Data: 26-01-07
 n. 5: **793**
 n. 6: **FINCANTIERI**
 n. 7: **cometal** architetture in acciaio
 n. 8: **PROSPETTO TRASVERSALE PICOCCO 1**
 n. 9: **PIANTA E SEZIONE CARPENTERIA METALLICA**
 n. 10: **43055 CASALE DI MEZZANI**
 n. 11: **PIEMONTE - ITALY**
 n. 12: **TEL. 051/376611**
 n. 13: **FAX 051/376642**





- ACCIAIO PER CARPENTERIA METALLICA:
- S275JR - S355JO PROFILI LAMINATI E LAMIERE
 - ACCIAIO PER TRAFONDINI:
- S275JR
 - BALLONI:
- Classe 8.8 (UNI 5737) CON DOPPIA RONDELLA E DADI 6.5 - TRATTAMENTO ZINCATURA A FREDDO
- NOTE: TUTTE LE QUOTE SONO ESPRESSE IN mm.

PRESCRIZIONE PER L'ESECUZIONE DELLE SALDATURE, COME DA PIANO DI SALDATURA SS N. 793-001

PRESCRIZIONI PER I CONTROLLI FINALI (VISIVO, DIMENSIONALE, NON DISTRUTTIVO) COME DA PCQ 793-001

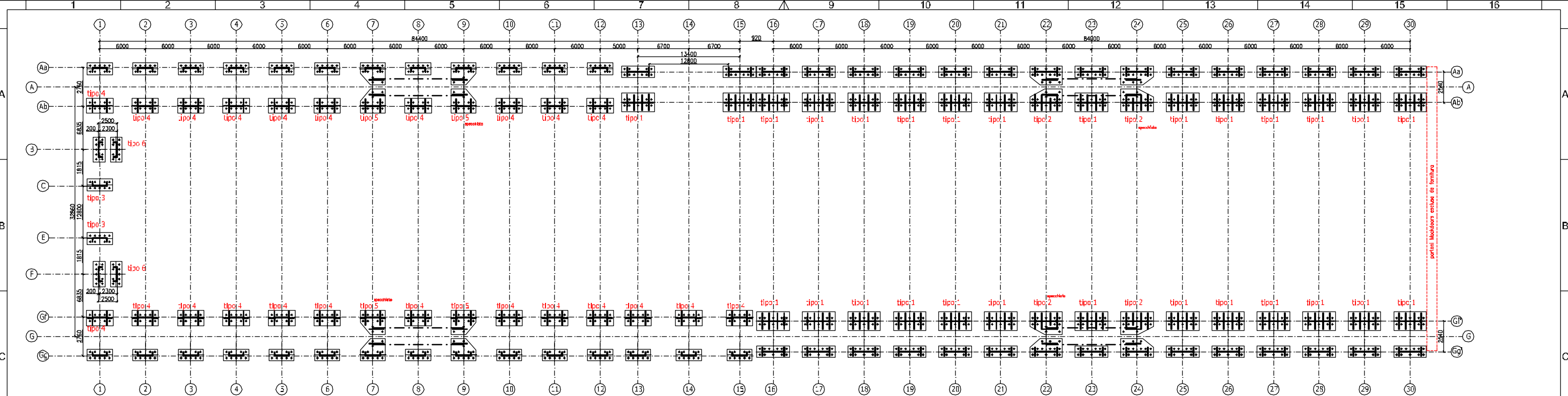
OGGETTO DELLA MODIFICA:

| CONTROLLO | DISIGN | DATA | ASSICURAZ. QUALITA' | DATA | PREZ. PROGETTAZ. | DATA |
|-----------|--------|------|---------------------|------|------------------|------|
| | | | | | | |

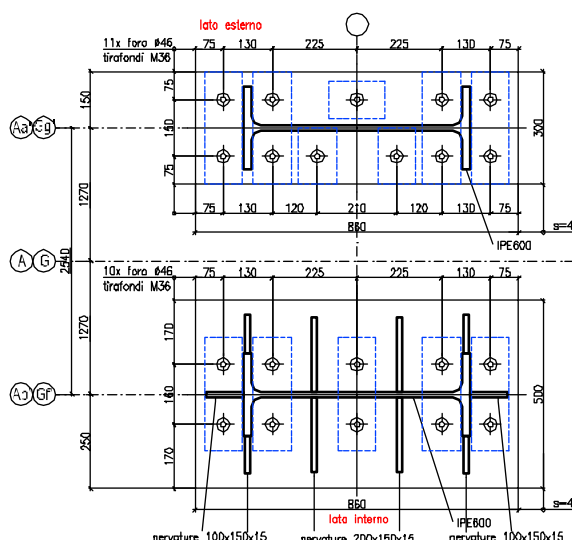
Mod. n. **P03** del 26-01-07
 Disegnato Da **Stefano Turchetti**
 Scale: 1:50, 1:20, 1:10
 Conn. n. **793**
FINCANTIERI
 Disegnato Da **Stefano Turchetti**
 Scale: 1:50, 1:20, 1:10
 Conn. n. **793**
FINCANTIERI
 Disegnato Da **Stefano Turchetti**
 Scale: 1:50, 1:20, 1:10
 Conn. n. **793**
FINCANTIERI

cometal
architetture in acciaio

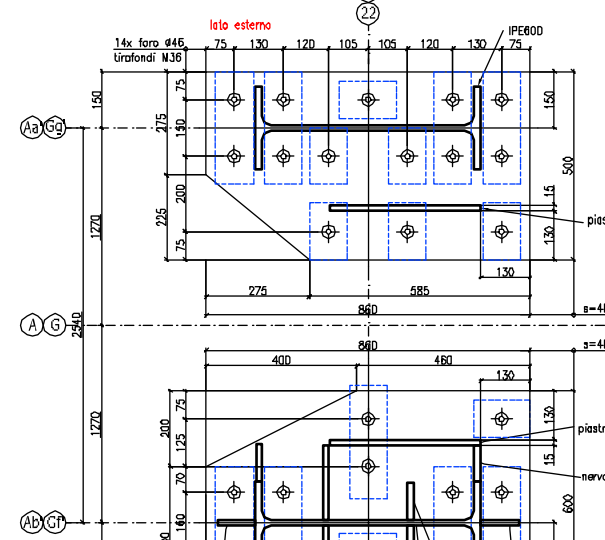
43055 CASALE DI MEZZANI
 INDIRIZZO - ITALY
 TEL. 0521/376611
 FAX 0521/376642



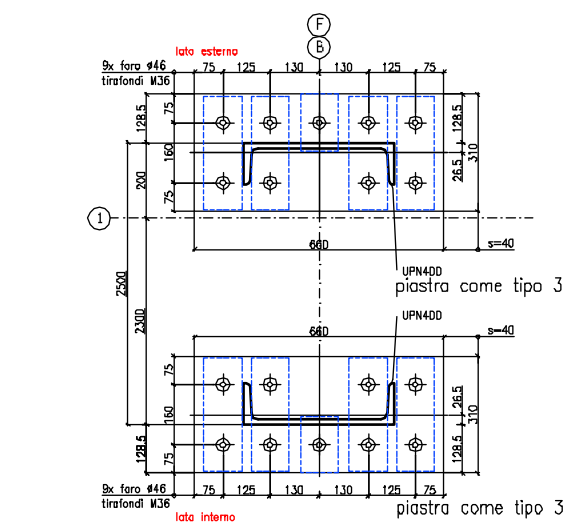
PIANTA TIRAFONDI
 Scala 1:250 **PIASTRE DI BASE SCALA 1:50**



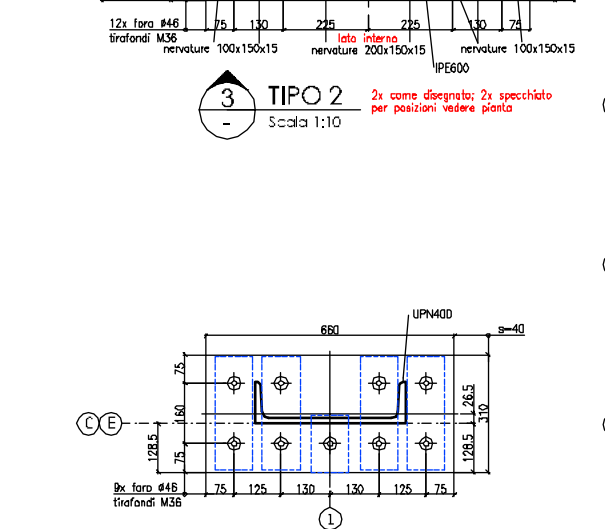
TIPO 1
 Scala 1:10
 2x per posizioni vedere pianta



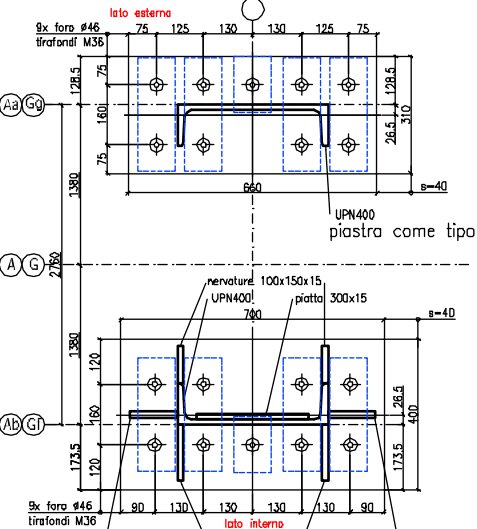
TIPO 2
 Scala 1:10
 2x come disegnato; 2x specchiato per posizioni vedere pianta



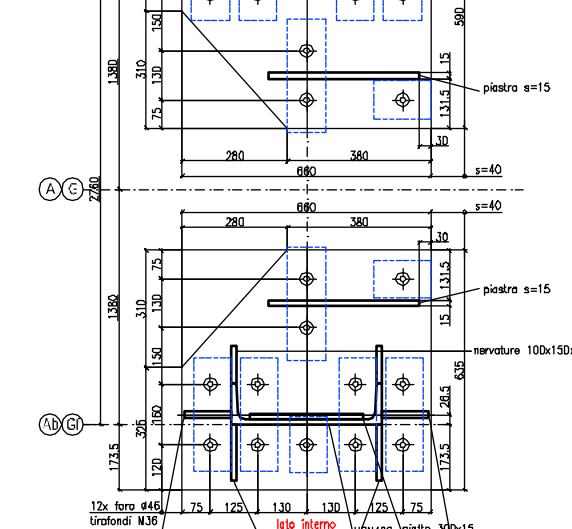
TIPO 6
 Scala 1:10
 2x per posizioni vedere pianta



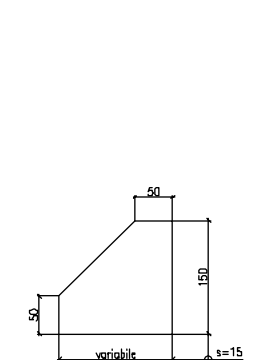
TIPO 3
 Scala 1:10
 2x per posizioni vedere pianta



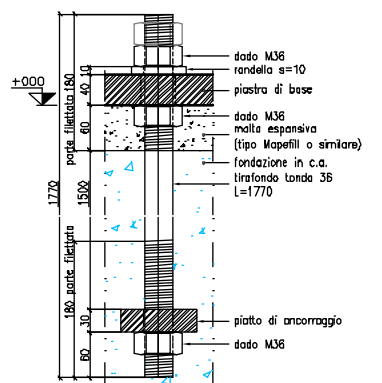
TIPO 4
 Scala 1:10
 2x per posizioni vedere pianta



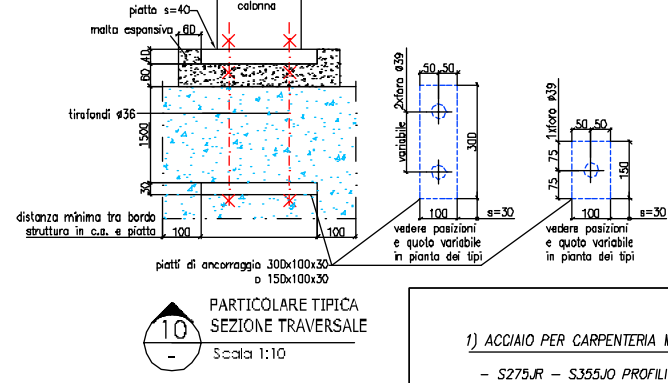
TIPO 5
 Scala 1:10
 2x come disegnato; 2x specchiato per posizioni vedere pianta



DETAGLIO TIPICO NERVATURA
 Scala 1:5



TIRAFONDO
 Scala 1:5



PARTICOLARE TIPICA SEZIONE TRASVERSALE
 Scala 1:10

- 1) ACCIAIO PER CARPENTERIA METALLICA:
 - S275JR - S355JO PROFILI LAMINATI E LAMIERE
 - 2) ACCIAIO PER TIRAFONDI:
 - S275JR
 - 3) BULLONI:
 - Classe 8.8 (UNI 5737) CON DOPPIA RONDELLA E DADI 6.5 - TRATTAMENTO ZINCATURA A FREDDO
- QUOTE: TUTTE LE QUOTE SONO ESPRESSE IN mm.

PRESCRIZIONE PER L'ESECUZIONE DELLE SALDATURE, COME DA PIANO DI SALDATURA SS N. 793 - 001

PRESCRIZIONE PER I CONTROLLI FINALI (VISIVO, DIMENSIONALE, NON DISTRUTTIVO) COME DA PCQ. 793 - 001

| | |
|-------------------------|--|
| DESCRIZIONE SALDATURA | |
| RIPREPIRE CON SALDATURA | |

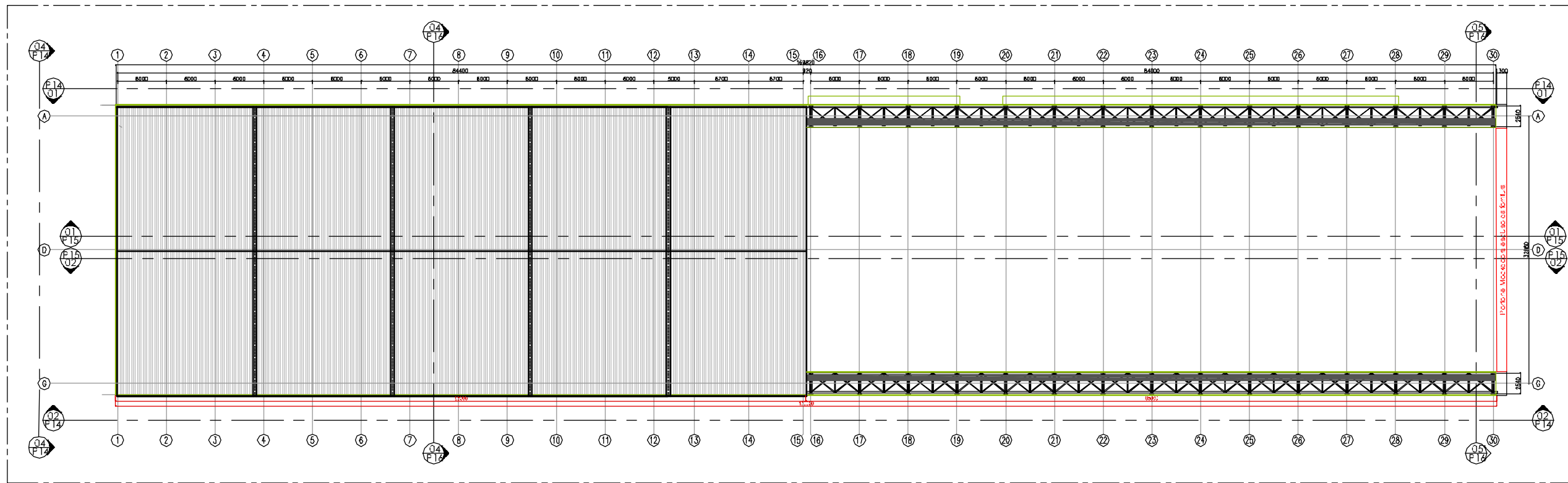
OGGETTO DELLA MODIFICA:

| | | | | | |
|-------------------|--------------------|---------------------|-------------------------|-------------------|---|
| CONTROLLO DESEGNI | DATA | ASSICURAZ. QUALITA' | DATA | DIREZ. PROGETTAZ. | DATA |
| Dr. n. | P02 | Comm. n. | 793 | | |
| Scala | 1:250 - 1:10 - 1:5 | Disegnata da | Studio Techné s.r.l. | Committ. | FINCANTIERI |
| | | Struttura | CAPELLI & ASSOCIATI | Commessa | NUOVO CAPANNONE LINEA MEGA YACHT CANTIERE DI MUGLIANO |
| A | | Objetto: | PIASTRE DI BASE COLONNE | | |
| B | | | PIANTA TIRAFONDI | | |
| C | | | CARPENTERIA METALLICA | | |
| D | | | | | |

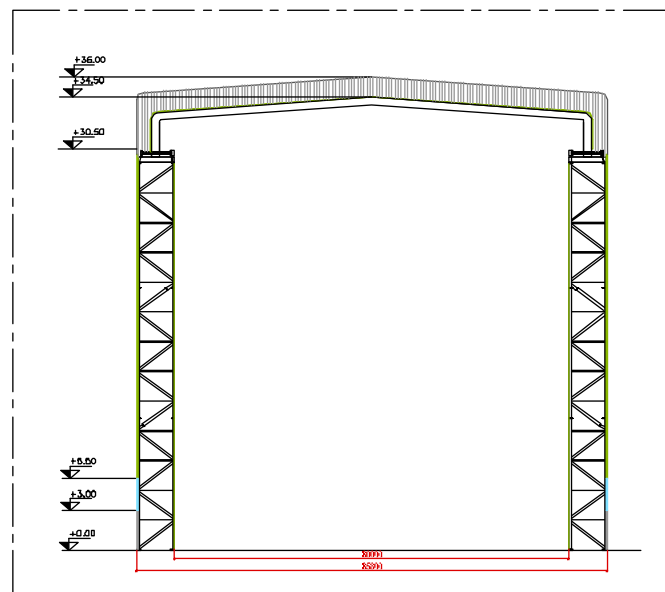
UNI EN ISO 9001

cometal
 architetture in acciaio

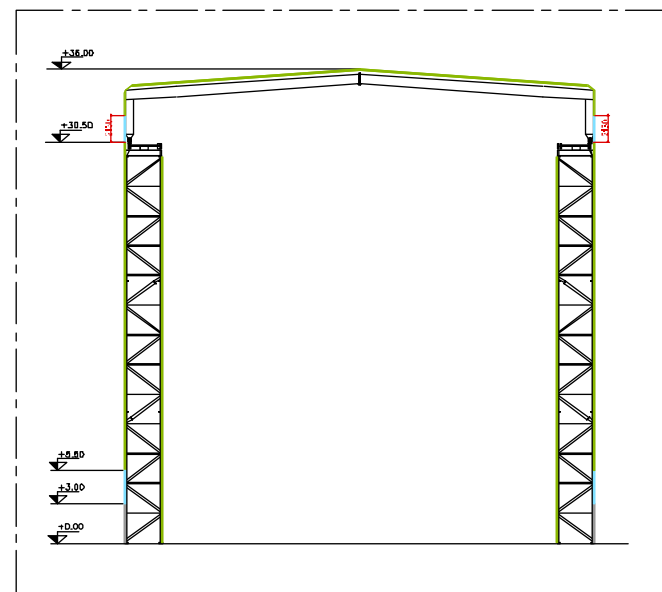
43055 CASALE DI MEZZANI
 PARMA - ITALY
 TEL. 0521/316911
 FAX. 0521/3169242



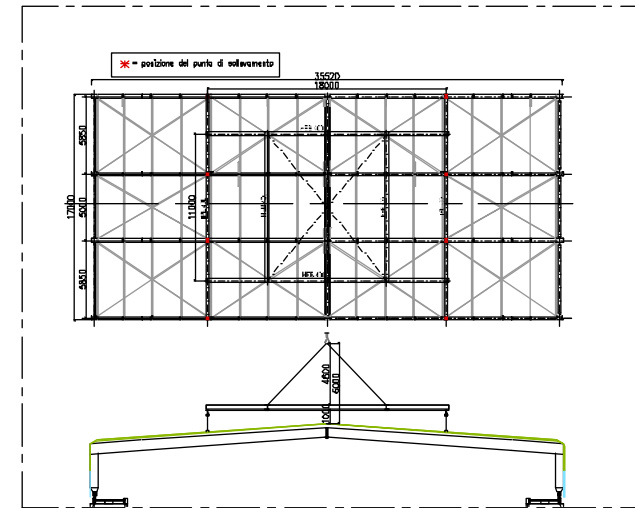
01 PIANTE
Scala 1:200



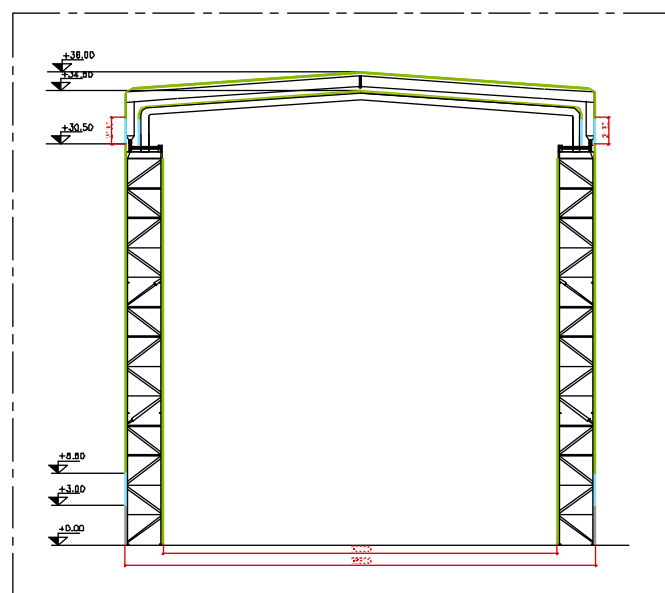
02 SEZIONE
P16
Scala 1:200



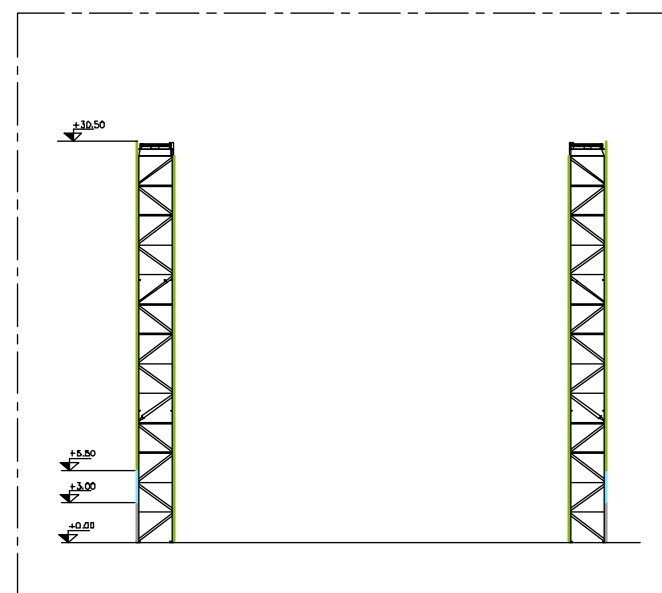
03 SEZIONE
P16
Scala 1:200



06 SCHEMA DEL SISTEMA DISOLLEVAMENTO
P16
Scala 1:200



04 SEZIONE
P16
Scala 1:200



05 SEZIONE
P16
Scala 1:200

- 1) ACCIAIO PER CARPENTERIA METALLICA:
- S275JR - S355JO PROFILI LAMINATI
 - 2) ACCIAIO PER TRAFONDI:
- S275JR - PER COLONNE PRINCIPALI E COLONNE DI BARACCATURA
 - 3) BULLONE:
- Classe 8.8 (UNI 5737) CON DOPIA RONDELLA E DADI 6.5 - TRATTAMENTO ZINCATURA A FREDDO
- NOTE: TUTTE LE QUOTE SONO ESPRESSE IN mm.

PRESCRIZIONE PER L'ESECUZIONE DELLE SALDATURE, COME DA PIANO DI SALDATURA SS N. 793 - 001

PRESCRIZIONI PER I CONTROLLI FINALI (VISIVO, DIMENSIONALE, NON DISTRUTTIVO) COME DA PCQ. 793 - 001

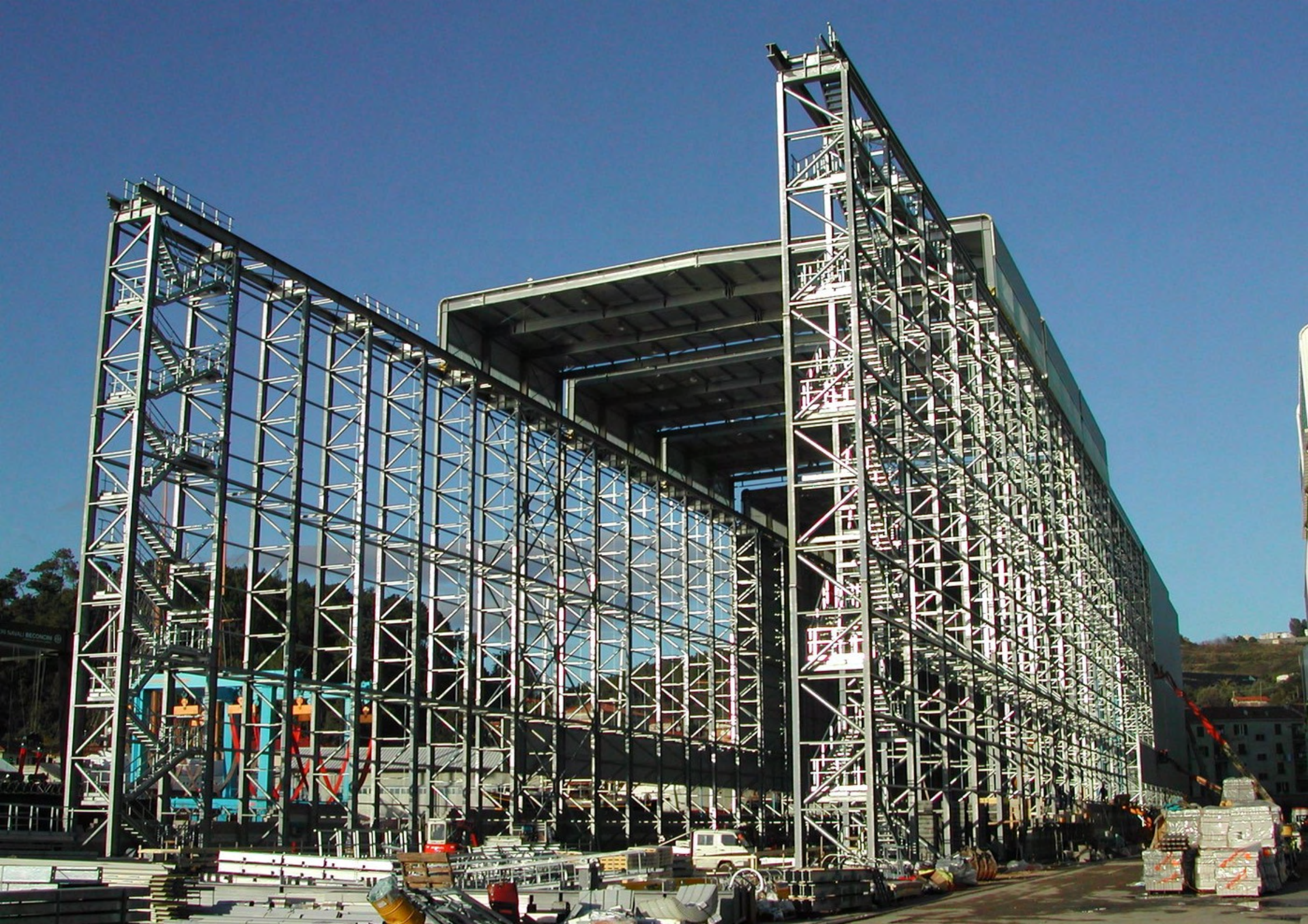
| CONTROLLO | DESCRIZIONE | DATA | ASSICURAZ. QUALITA' | DATA | PREZ. PROGETTAT. | DATA |
|-----------|-------------|------|---------------------|------|------------------|------|
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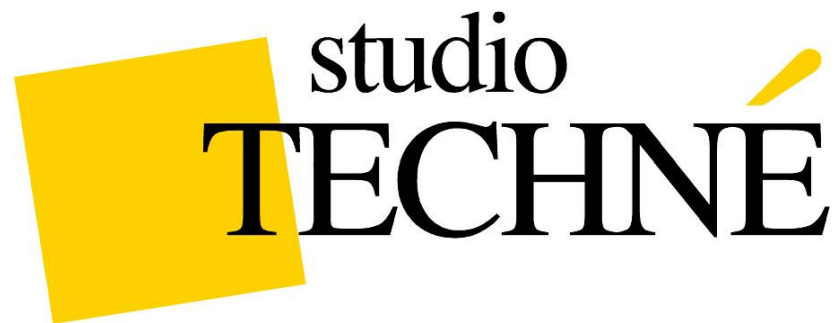
OGGETTO DELLA MODIFICA:

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

Data: 26/01/2007
 Disegnato Da: Studio Tachini s.r.l.
 Scale: 1:200
 Client: **FINCANTIERI**
 Oggetto: NUOVO CAMPIONE LINEA MEVA TACHINI
 Contatore: CONTATORE DI MODIFICAZIONE
 Pianta Copertura Aperta
 Sezioni
 Schema Sistema di Sollevamento

cometal
 architetture in acciaio
 43055 CASALE DI MEZZANI
 ITALIA - ITALY
 TEL. 0521/376011
 FAX 0521/376042



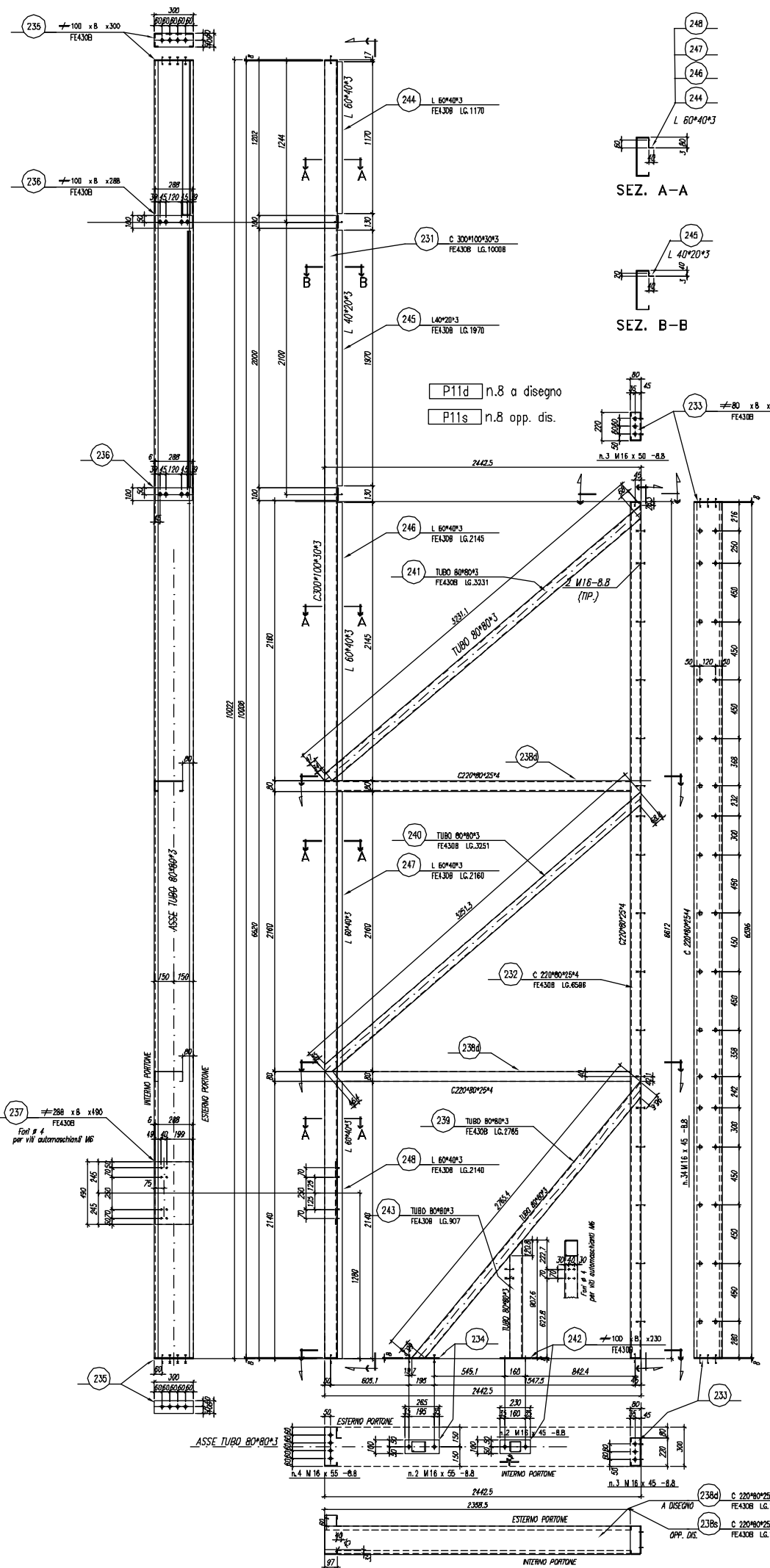


STEEL INDUSTRIAL BUILDING

DESCRIPTION: DETAILED DESIGN OF AN INDUSTRIAL BUILDING IN VIAREGGIO (LU).

CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

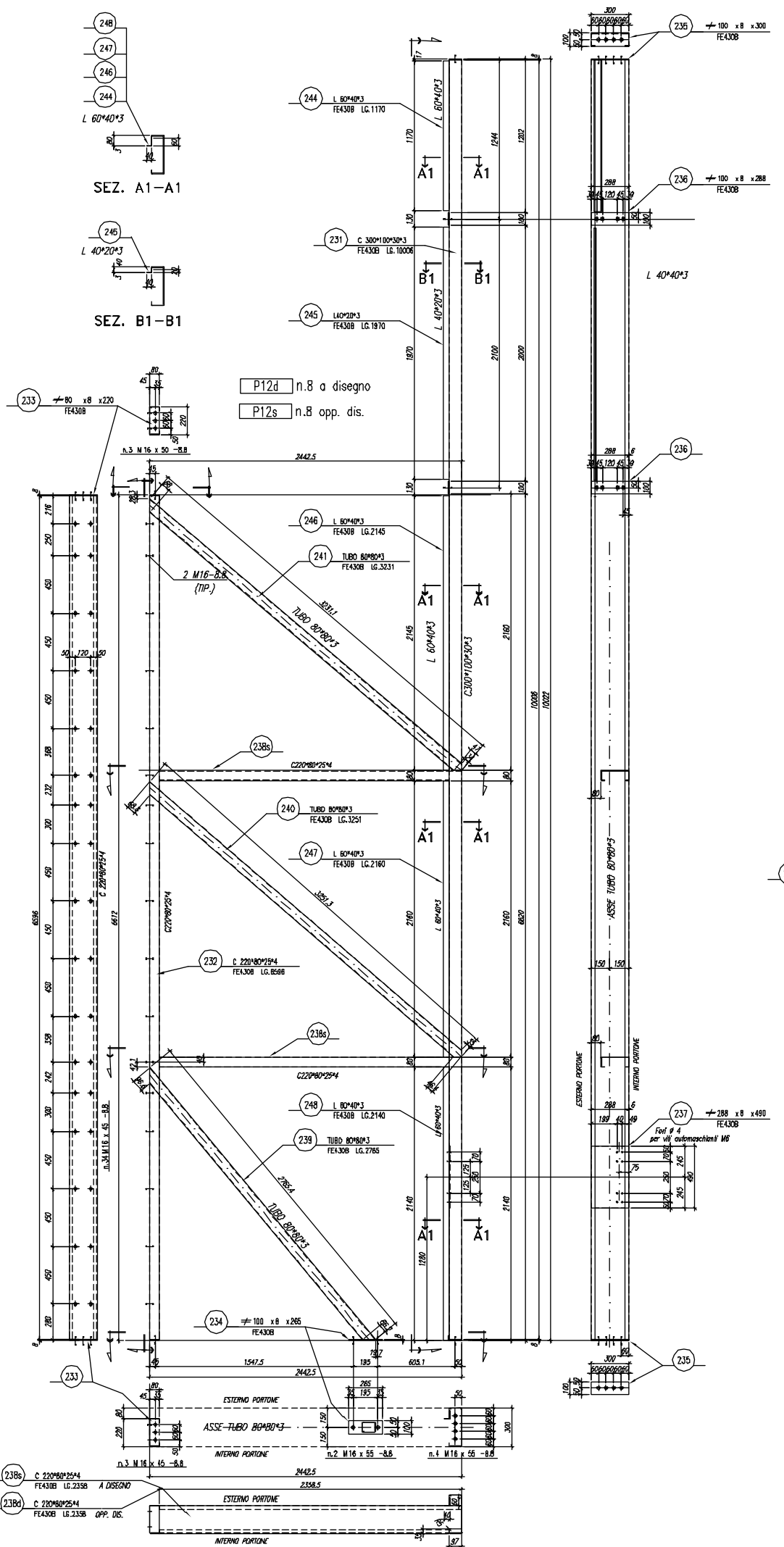
STATUS: ESEGUITO



SEZ. A-A

SEZ. B-B

P11d n.8 a disegno
P11s n.8 opp. dis.

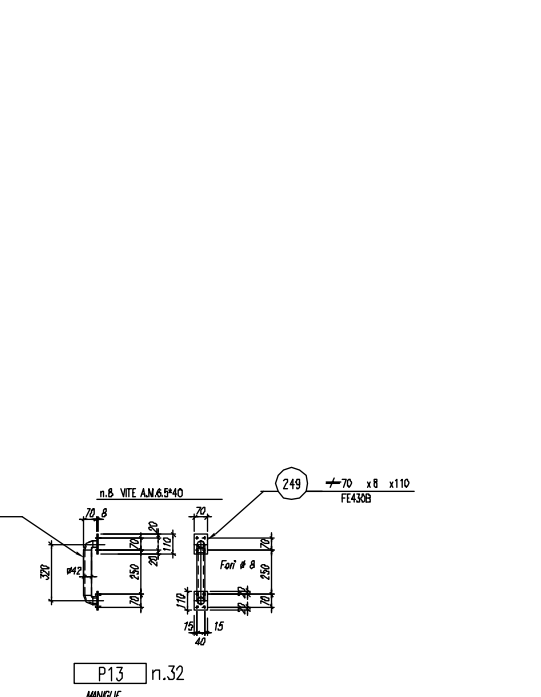


SEZ. A1-A1

SEZ. B1-B1

P12d n.8 a disegno
P12s n.8 opp. dis.

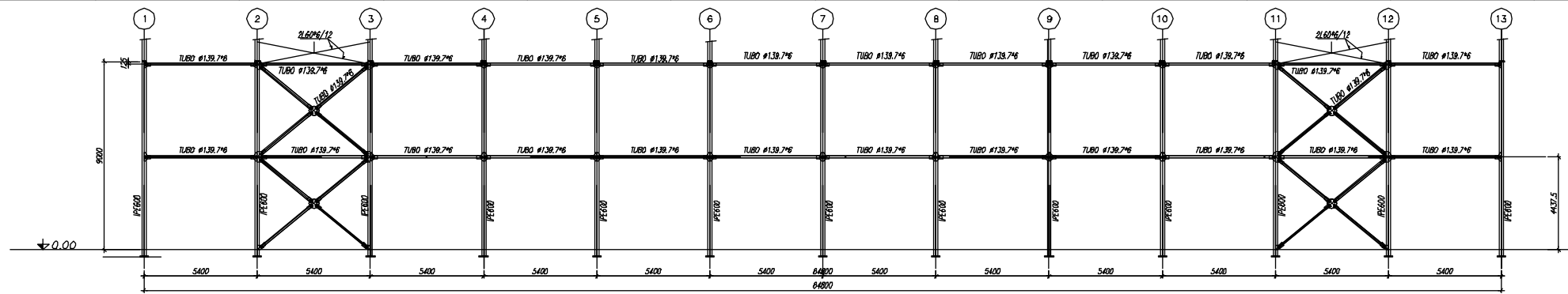
| BILL OF MATERIALS | | | | | | | | | | |
|-------------------|-------------|--------------|-------------|-------------|------------|-------------------------------|------------|-------|-------|-------|
| MARK OR POSITION | No OF PLECS | DESCRIPTION | WIDTH mm. | LEN. mm. | QUALITY | No PCS for each assembly mark | WEIGHT Kg. | UNIT. | TOTAL | SURF. |
| P11D | 8 | | | | | | 360.9 | 3071 | 296.7 | |
| P11S | 8 | | | | | | 360.9 | 3071 | 296.7 | |
| P12D | 8 | | | | | | 376.0 | 3008 | 294.0 | |
| P12S | 8 | | | | | | 376.0 | 3008 | 294.0 | |
| P13 | 32 | | | | | | 2.1 | 67 | 2.8 | |
| | | | | | | | | | | |
| P21 | 32 | C 200*80*254 | 100 | 80 | F430B | 1 | 127.1 | 4864 | | |
| P22 | 32 | C 220*80*254 | 100 | 80 | F430B | 1 | 127.1 | 4864 | | |
| P23 | 64 | L 60*40*3 | 60 | 40 | F430B | 2 | 1.1 | 71 | | |
| P24 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P25 | 64 | L 60*40*3 | 60 | 40 | F430B | 2 | 1.1 | 71 | | |
| P26 | 64 | L 60*40*3 | 60 | 40 | F430B | 2 | 1.1 | 71 | | |
| P27 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P28 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P29 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P30 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P31 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P32 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P33 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P34 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P35 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P36 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P37 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P38 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P39 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P40 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P41 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P42 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P43 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P44 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P45 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P46 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P47 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P48 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P49 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| P50 | 32 | L 60*40*3 | 60 | 40 | F430B | 1 | 1.1 | 71 | | |
| | | | | | | | | | | |
| LIST OF BOLTS | | | | | | | | | | |
| DESCRIPTION | REF. | CLASS | No OF PLECS | NOTE | WEIGHT Kg. | UNIT. | TOTAL | | | |
| M 16 x 45 | UNO | S727 | 8.0 | 612 ZINGATO | 0.14 | | 94.1 | | | |
| M 16 x 50 | UNO | S727 | 8.0 | 96 ZINGATO | 0.15 | | 14.4 | | | |
| M 16 x 55 | UNO | S727 | 8.0 | 192 ZINGATO | 0.16 | | 30.7 | | | |
| VITE A.M. 6.5*40 | | | | 856 ZINGATO | 0.00 | | 0.3 | | | |
| TOTAL WEIGHT kg. | | | | | | | 12364.9 | 824.2 | | |



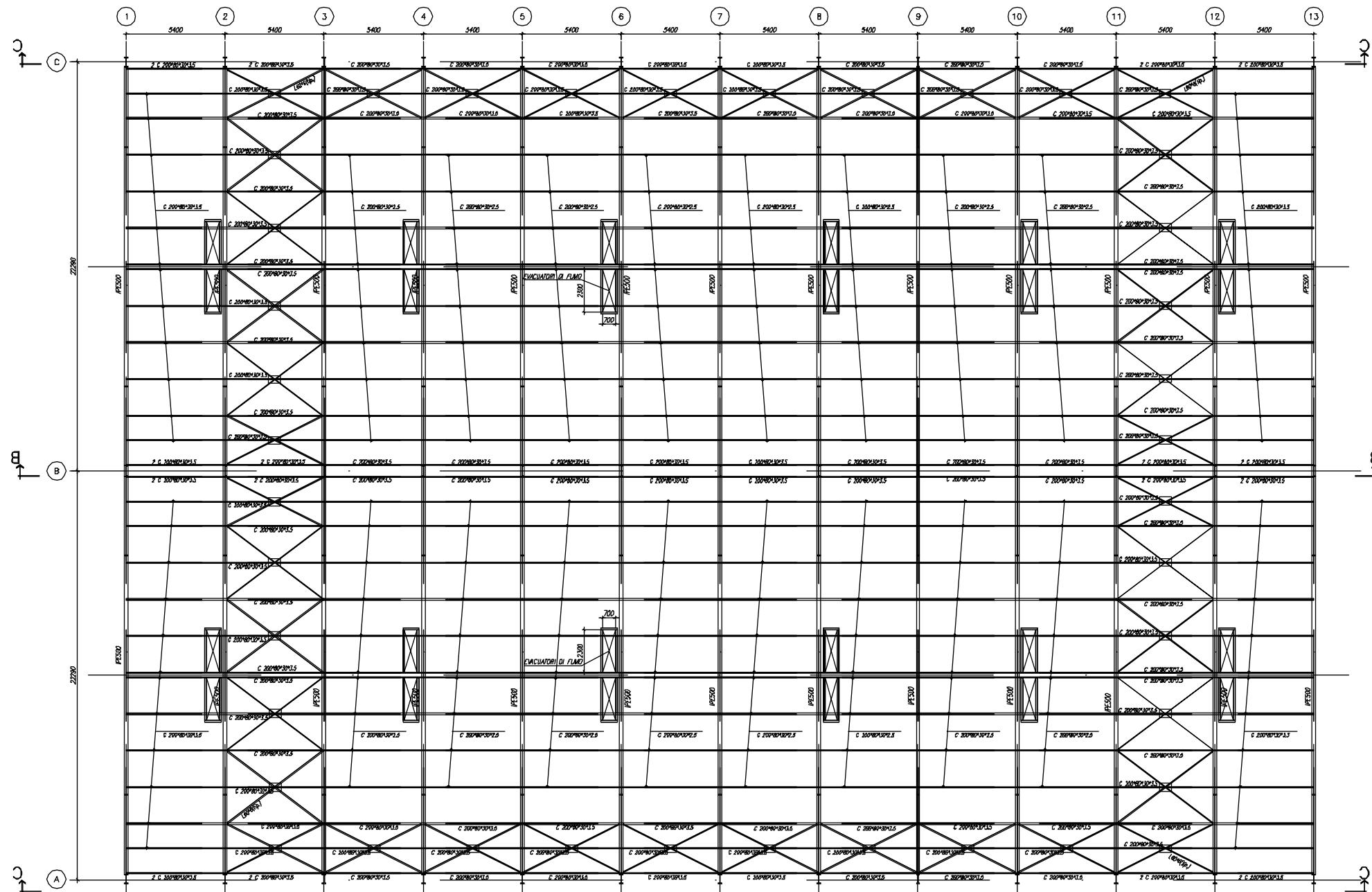
• Fori ø 14
 • Fori ø 18
 • Fori ø 22
 • Fori ø 26
 • Fori ø 29

SALDATURE :
 ove non indicato diversamente le saldature sono a cordoni d'angolo con lato pari al 70% dello spessore minimo da collegare.

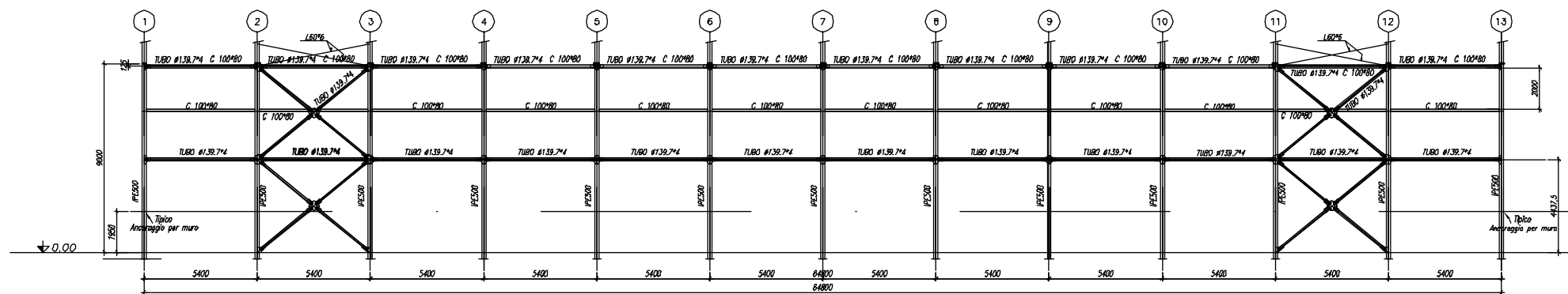
| | | | | |
|----------|----------|--|-----------------------|-------------------|
| 0 | 21/04/06 | EMISSIONE | S.SANI | APPROVED BY |
| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | LENCIONI | Commissa Job | 556 |
| | | COSTRUZIONI METALLICHE s.r.l. | Tevele Sheet | 556-16 |
| | | LA FARABOLA s.r.l. | Date | 21/04/06 |
| | | Via S. FRANCESCO, 61 VIAREGGIO (LU) | Scale | 1:15 |
| | | FABBRICATO AD USO ARTIGIANALE | Disegnato da | STUDIO SANI LUCCA |
| | | VIA SORROCCO, LOC. COMPARINI - LOTTO 31 VIAREGGIO (LU) | Responsabile commessa | job manager |
| | | PORTONI (TAVOLA 2/2) | ING. A. CARPITA | Approvato |



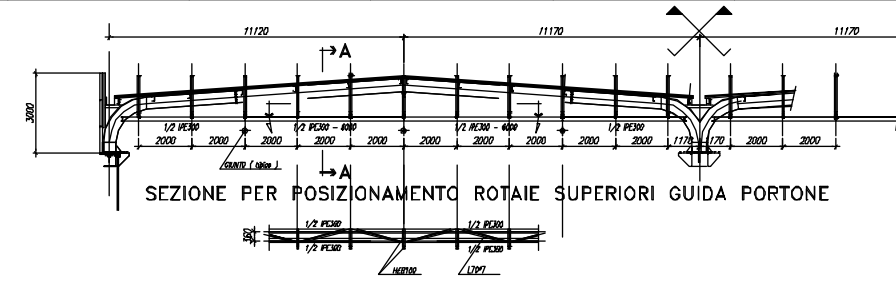
SEZIONE "B-B"



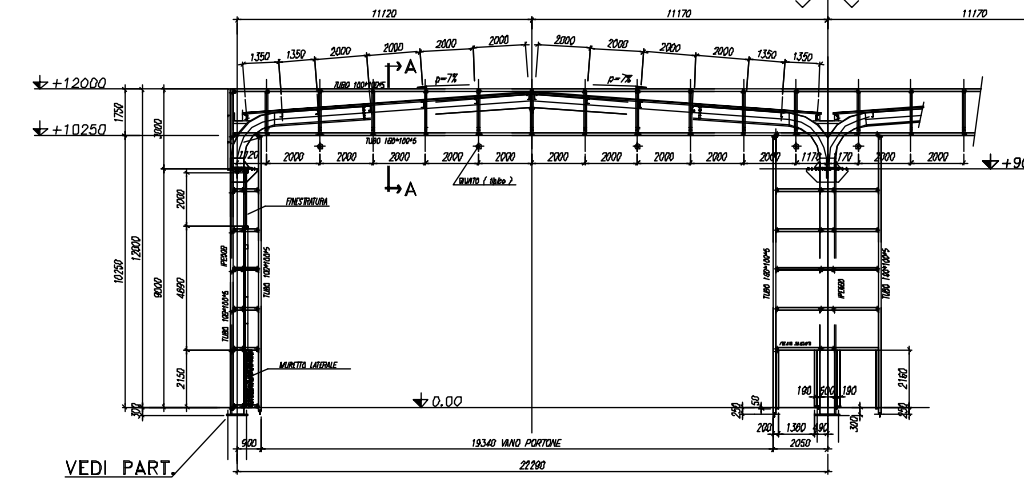
PIANTA COPERTURA



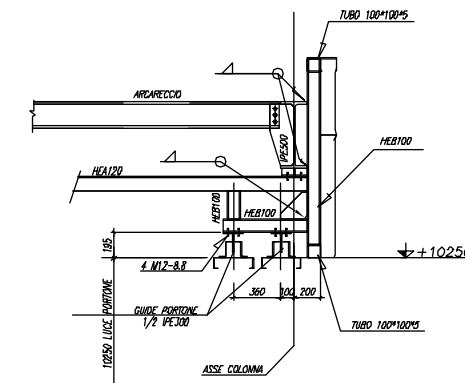
SEZIONE "C-C"



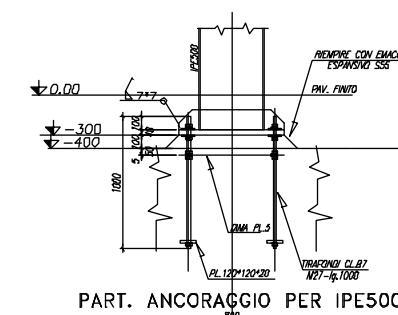
SEZIONE PER POSIZIONAMENTO ROTAE SUPERIORI GUIDA PORTONE



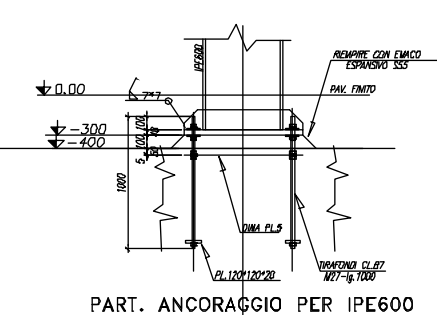
SEZIONE TELAIO DI FRONTONE



SEZIONE A-A

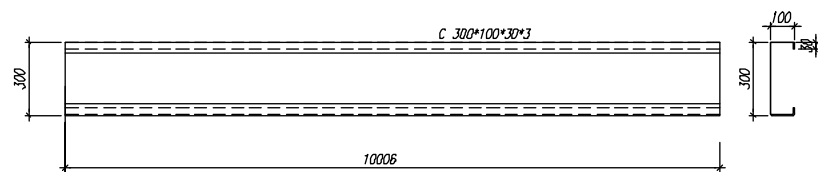


PART. ANCORAGGIO PER IPE500



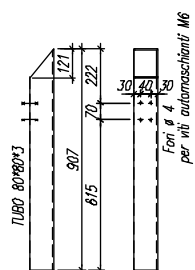
PART. ANCORAGGIO PER IPE600

| | | | |
|--------------------------|--------------|--|-----------------------|
| 0 | 23/04/06 | PER COSTRUZIONE | U.T.E. |
| REVISION | DATE | DESCRIPTION | CHECKED BY |
| | | | APPROVED BY |
| | | LENCONI | 556 |
| | | COSTRUZIONI METALLICHE s.r.l. | Tavola |
| | | Via S. FRANCESCO, 61 VIAREGGIO (LU) | Sheet |
| | | | 556-P1 |
| Committente | Purchaser | LA FARABOLA s.r.l. | Date |
| | | | 23/04/06 |
| | | | Scala |
| | | | 1:100 1:50 |
| Descrizione | Description | FABBRICATO AD USO ARTIGIANALE | Disegnato da |
| | | | STUDIO SANI LUCCA |
| Ubicazione Implantazione | Job location | VIA SCIROCCO, LOC. COMPARINI - LOTTO 31 VIAREGGIO (LU) | Responsabile commessa |
| | | | ING. A. CARPITA |
| Titolo | Title | ASSIEME E PARTICOLARI | Approvato |
| | | | approved by |



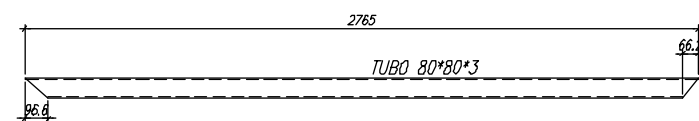
| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 222 |

| | | | | |
|-----------|----------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 231 | N° PEZZI | tot. Kg | |
| PROFILO | C 300*100*30*3 | 32 | 4066 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |



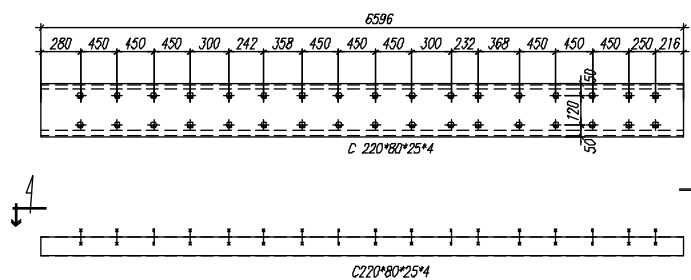
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|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 234 |

| | | | | |
|-----------|----------------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 243 | N° PEZZI | tot. Kg | |
| PROFILO | TUBO 80*80*3 Lg. 907 | 16 | 103 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 230 |

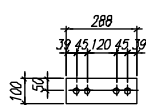
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|-----------|-----------------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 239 | N° PEZZI | tot. Kg | |
| PROFILO | TUBO 80*80*3 Lg. 2765 | 32 | 628 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 223 |

| | | | | |
|-----------|---------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 232 | N° PEZZI | tot. Kg | |
| PROFILO | C 220*80*25*4 | 32 | 2687 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |

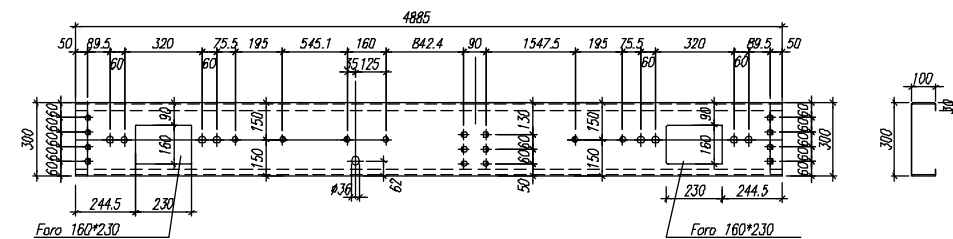
FORI Ø 18



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 227 |

| | | | | |
|-----------|-----------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 236 | N° PEZZI | tot. Kg | |
| PROFILO | Larn. 100*8*288 | 64 | 116 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |

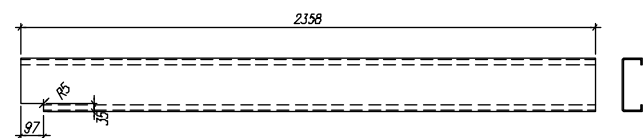
FORI Ø 18



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 202 |

| | | | | |
|-----------|----------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 213d | N° PEZZI | tot. Kg | |
| PROFILO | C 300*100*30*3 | 8 destri | 993 | |
| | | 8 sin. | | |
| MATERIALE | FE 430B | DISEGNO | 556-15 | |

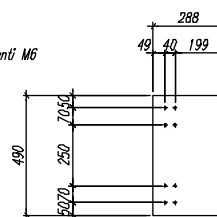
FORI Ø 18



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 229 |

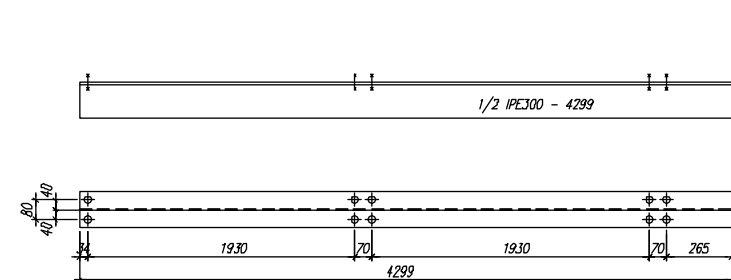
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|-----------|---------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 238d | N° PEZZI | tot. Kg | |
| PROFILO | C 220*80*25*4 | 32 dest. | 1916 | |
| | | 32 sin. | | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |

Fori Ø 4 per viti automaschianti M6



| REVISIONE | DATA | DISEGNATO | VERIFICATO | FOGLIO N° |
|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 228 |

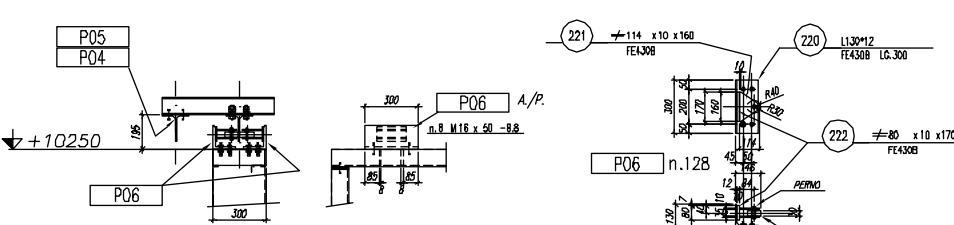
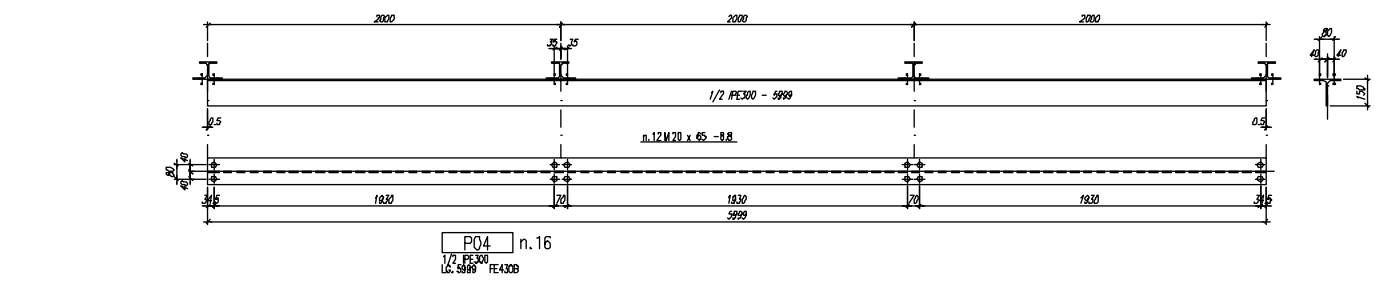
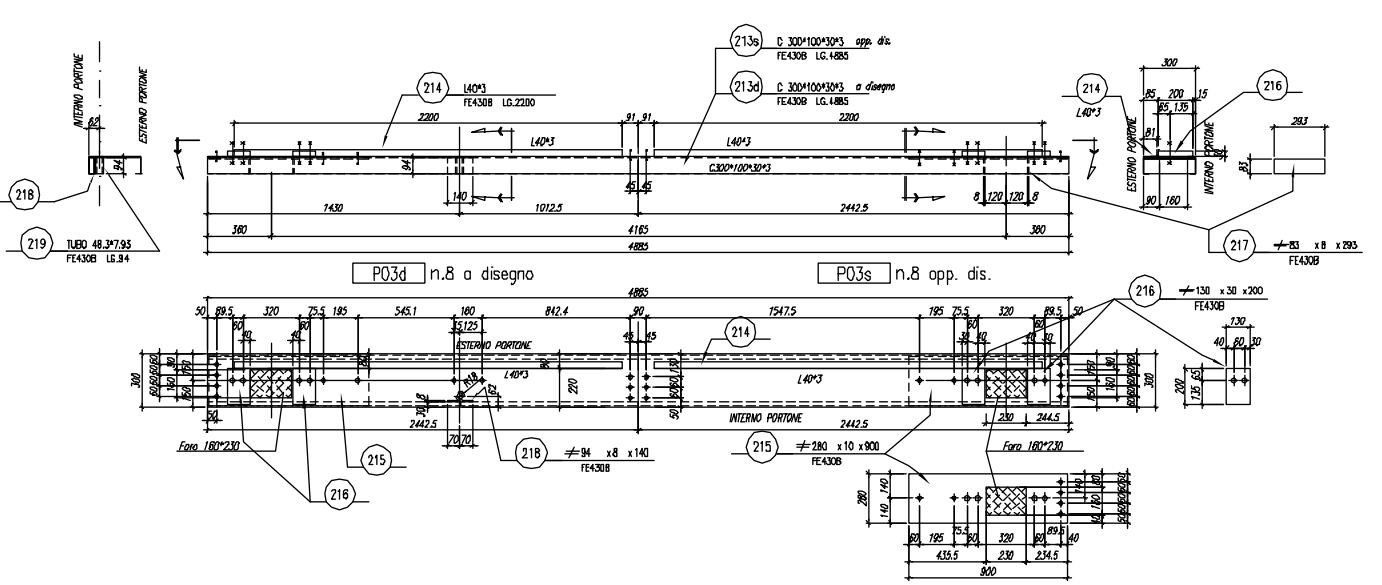
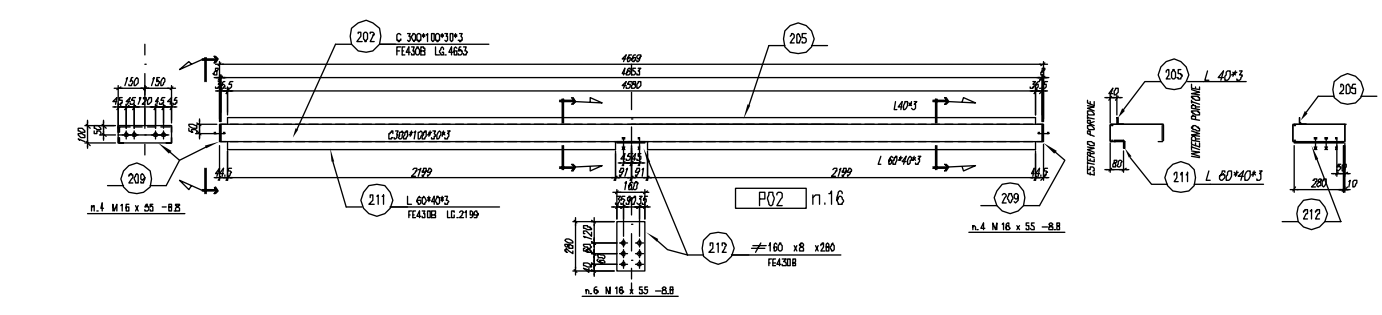
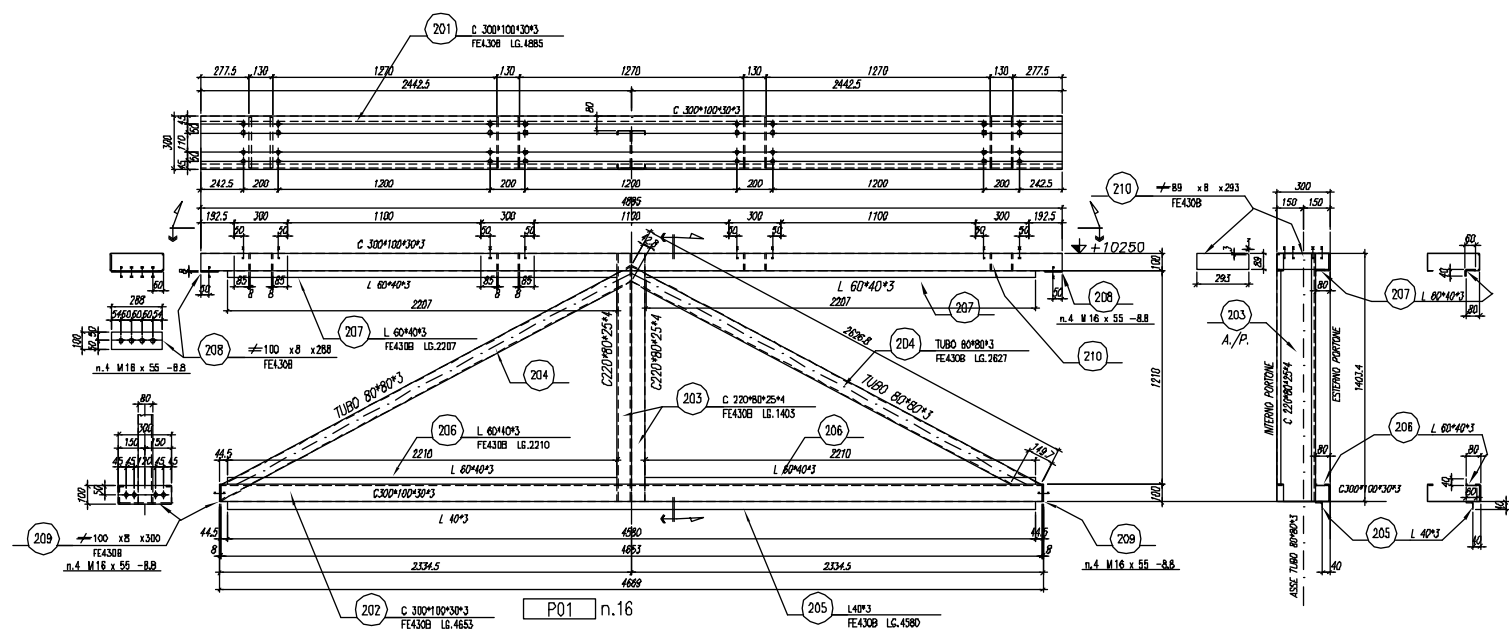
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| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| POSIZIONE | 237 | N° PEZZI | tot. Kg | |
| PROFILO | Larn. 288*8*490 | 32 | 294 | |
| MATERIALE | FE 430B | DISEGNO | 556-16 | |



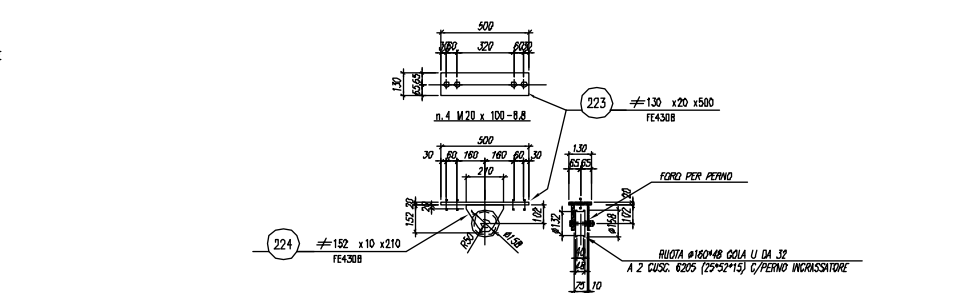
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|-----------|----------|-------------|------------|-----------|
| 0 | 21/04/06 | studio sani | | 219 |

| | | | | |
|-----------|---------------------|----------|--------------------|--|
| | | | | |
| COMMESSA | 556 | CLIENTE | LA FARABOLA s.r.l. | |
| MARCA | P05 | N° PEZZI | tot. Kg | |
| PROFILO | 1/2 IPE300 Lg. 4299 | 16 | 1456 | |
| MATERIALE | FE 430B | DISEGNO | 556-15 | |

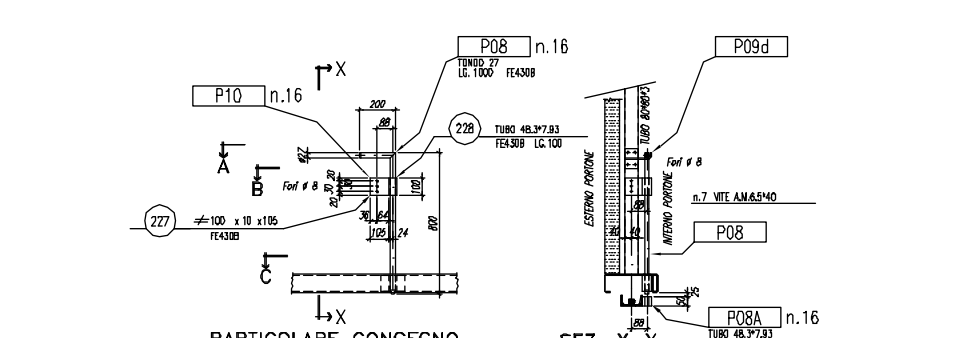
FORI Ø 22



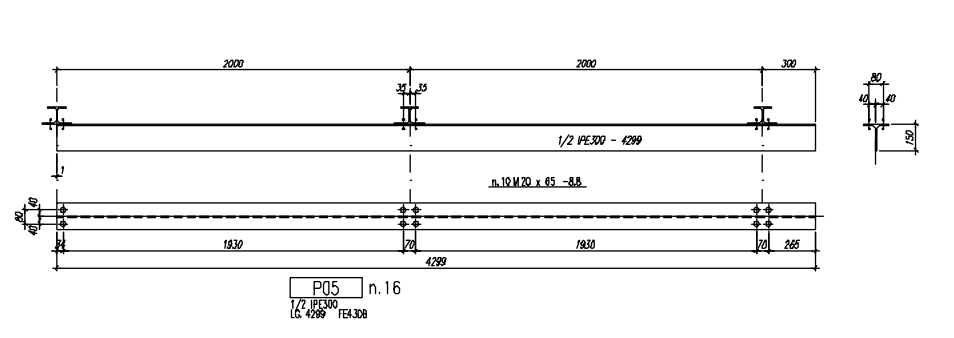
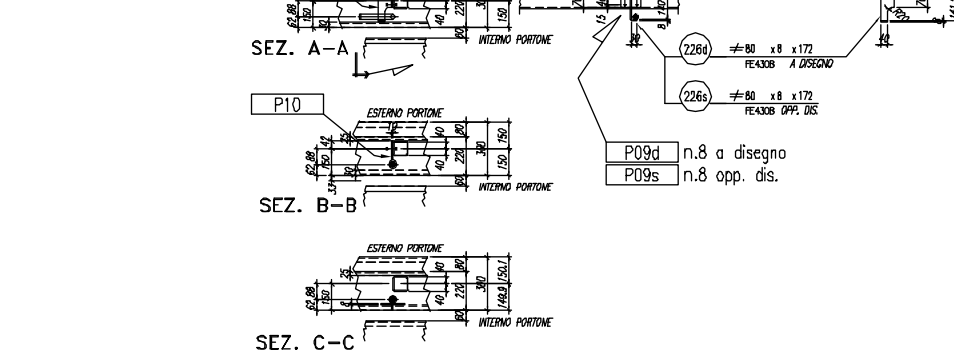
DISPOSITIVO DI SCORRIMENTO SUPERIORE



PARTICOLARE CESTELLO RUOTA DI SCORRIMENTO



PARTICOLARE CONGEGNO DI BLOCCAGGIO PORTONI



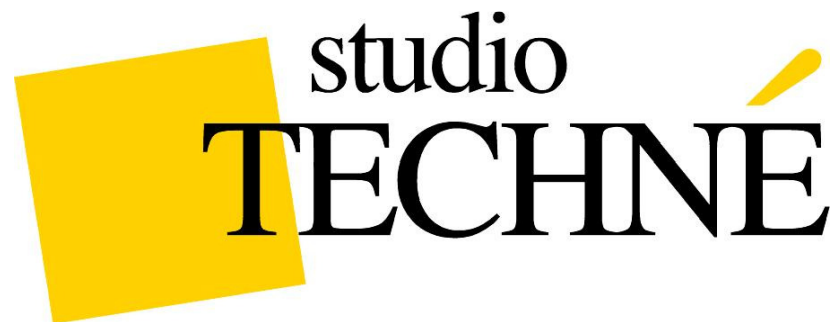
| BILL OF MATERIALS | | | | | | | | | | |
|-------------------|--------------|----------------|-----------|----------|-------------|-------------------------------|------------|-------|-------|-------|
| MARK OR POSITION | No OF PIECES | DESCRIPTION | WIDTH mm. | LEN. mm. | QUALITY | No PCS for each assembly mark | WEIGHT Kg. | UNITS | TOTAL | SURF. |
| 1 P04 | 16 | 1/2 FE300 | | | 5999 FE4308 | | 126.6 | 2825 | 59.5 | |
| 2 P05 | 16 | 1/2 FE300 | | | 4299 FE4308 | | 96.7 | 1451 | 46.6 | |
| 3 P08 | 16 | TUBO 48.3*7.93 | | | 1000 FE4308 | | 4.5 | 72 | 1.3 | |
| 4 P08A | 16 | TUBO 48.3*7.93 | | | 30 FE4308 | | 0.4 | 6 | 0.1 | |
| 5 | | | | | | | | | | |
| 6 P01 | 16 | | | | | | 242.2 | 3876 | 280.0 | |
| 7 P02 | 16 | | | | | | 83.6 | 1308 | 109.3 | |
| 8 P03d | 8 | | | | | | 141.7 | 1134 | 60.7 | |
| 9 P03s | 8 | | | | | | 141.7 | 1134 | 60.7 | |
| 10 P04 | 128 | | | | | | 11.0 | 1406 | 34.4 | |
| 11 P05 | 32 | | | | | | 15.2 | 467 | 9.5 | |
| 12 P08 | 4 | | | | | | 1.5 | 12 | 0.4 | |
| 13 P08A | 4 | | | | | | 1.5 | 12 | 0.4 | |
| 14 | | | | | | | | | | |
| 15 P01 | 16 | C 300*100*30*3 | | | 4885 FE4308 | | 62.0 | 950 | | |
| 16 P02 | 16 | C 300*100*30*3 | | | 4299 FE4308 | | 38.1 | 1891 | | |
| 17 P03d | 8 | C 300*100*30*3 | | | 1403 FE4308 | 2 | 17.8 | 376 | | |
| 18 P03s | 8 | C 300*100*30*3 | | | 2627 FE4308 | 2 | 18.7 | 597 | | |
| 19 P05 | 32 | L 60*40*3 | | | 4580 FE4308 | 1 | 8.2 | 264 | | |
| 20 P06 | 32 | L 60*40*3 | | | 2210 FE4308 | 2 | 4.9 | 156 | | |
| 21 P07 | 32 | L 60*40*3 | | | 2207 FE4308 | 2 | 4.9 | 155 | | |
| 22 P08 | 16 | L 40*3 | | | 300 FE4308 | 2 | 1.9 | 58 | | |
| 23 P08A | 16 | L 40*3 | | | 300 FE4308 | 2 | 1.9 | 58 | | |
| 24 P09 | 16 | L 40*3 | | | 89 FE4308 | 8 | 1.6 | 210 | | |
| 25 P10 | 32 | L 40*3 | | | 2199 FE4308 | 8 | 4.9 | 155 | | |
| 26 P12 | 16 | L 40*3 | | | 160 FE4308 | 1 | 2.8 | 43 | | |
| 27 P13d | 8 | C 300*100*30*3 | | | 4885 FE4308 | 1 | 62.0 | 496 | | |
| 28 P13s | 8 | C 300*100*30*3 | | | 4885 FE4308 | 1 | 62.0 | 496 | | |
| 29 P14 | 32 | L 40*3 | | | 2203 FE4308 | 1 | 4.0 | 127 | | |
| 30 P15 | 32 | L 40*3 | | | 280 FE4308 | 2 | 1.9 | 62 | | |
| 31 P16 | 16 | L 40*3 | | | 300 FE4308 | 4 | 4.1 | 392 | | |
| 32 P17 | 16 | L 40*3 | | | 80 FE4308 | 4 | 1.5 | 98 | | |
| 33 P18 | 16 | L 40*3 | | | 94 FE4308 | 1 | 0.9 | 13 | | |
| 34 P19 | 16 | TUBO 48.3*7.93 | | | 94 FE4308 | 1 | 0.7 | 12 | | |
| 35 P20 | 128 | L 60*40*3 | | | 300 FE4308 | 1 | 7.1 | 902 | | |
| 36 P21 | 256 | L 60*40*3 | | | 114 FE4308 | 2 | 1.4 | 367 | | |
| 37 P22 | 128 | L 60*40*3 | | | 80 FE4308 | 1 | 1.1 | 137 | | |
| 38 P23 | 32 | L 60*40*3 | | | 130 FE4308 | 1 | 10.2 | 367 | | |
| 39 P24 | 64 | L 60*40*3 | | | 132 FE4308 | 2 | 2.3 | 160 | | |
| 40 P25 | 16 | L 60*40*3 | | | 70 FE4308 | 1 | 0.6 | 10 | | |
| 41 P26d | 8 | L 60*40*3 | | | 80 FE4308 | 1 | 0.9 | 7 | | |
| 42 P26s | 8 | L 60*40*3 | | | 80 FE4308 | 1 | 0.9 | 7 | | |
| 43 | | | | | | | | | | |
| 44 P10 | 16 | | | | | | 1.4 | 26 | 0.6 | |
| 45 | | | | | | | | | | |
| 46 P27 | 16 | L 40*3 | | | 100 FE4308 | 1 | 0.9 | 13 | | |
| 47 P28 | 16 | TUBO 48.3*7.93 | | | 100 FE4308 | 1 | 0.9 | 13 | | |

| LIST OF BOLTS | | | | | |
|---------------------|----------|-------|--------------|------|---------------|
| DESCRIPTION | REF. | CLASS | No OF PIECES | NOTE | WEIGHT Kg. |
| | | | | | UNIT TOTAL |
| 48 M 16 x 50 | UNI S177 | 8.8 | 512 ZINCATO | | 0.15 76.8 |
| 49 M 16 x 55 | UNI S177 | 8.8 | 480 ZINCATO | | 0.14 76.8 |
| 50 M 20 x 65 | UNI S177 | 8.8 | 262 ZINCATO | | 0.20 106.6 |
| 51 M 20 x 100 | UNI S177 | 8.8 | 189 ZINCATO | | 0.39 48.6 |
| 52 VITE A.M. 6.5*40 | | | 112 ZINCATO | | 0.00 0.1 |
| TOTAL WEIGHT kg. | | | | | 13285.2 660.3 |

* Fori ϕ 14
 * Fori ϕ 18
 * Fori ϕ 22
 * Fori ϕ 26
 * Fori ϕ 29

SALDATURE :
 ove non indicato diversamente le saldature sono a cordoni d'angolo con lato pari al 70% dello spessore minimo da collegare.

| REVISION | DATE | EMMISSIONE | DESCRIPTION | CHECKED BY | APPROVED BY |
|---|----------|------------|-------------|-----------------------|-------------------|
| 0 | 19/04/06 | EMMISSIONE | | S.SANI | |
| | | | | Commissa Job | 556 |
| LA FARABOLA s.r.l. Via S. FRANCESCO, 61 VIAREGGIO (LU) | | | | Tecnico Sheet | 556-15 |
| Descrizione FABBRICATO AD USO ARTIGIANALE | | | | Disegnato da | STUDIO SANI LUCCA |
| Localizzazione Impianto VIA SOROCOCO, LOC. COMPARINI - LOTTO 31 VIAREGGIO (LU) | | | | Responsabile commessa | job manager |
| Titolo PORTONI (TAVOLA 1/2) | | | | Approvato | ING. A. CARPITA |
| | | | | Data | 19/04/06 |
| | | | | Scala | 1:15 |

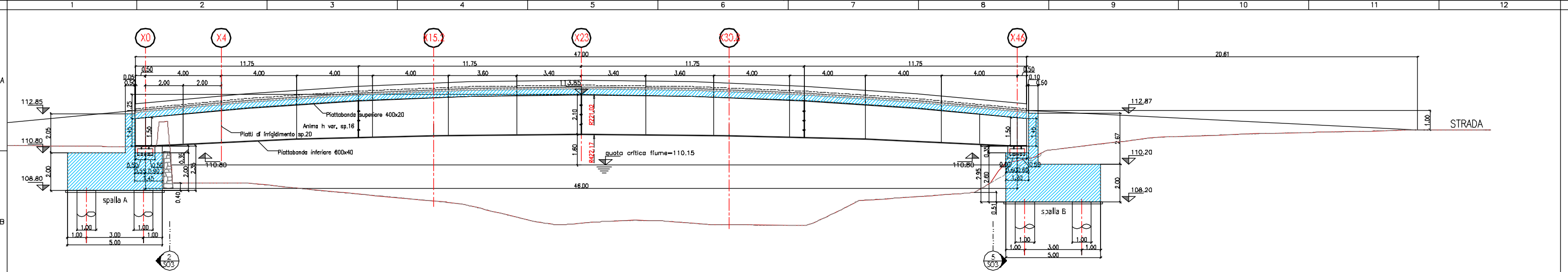


NEW 46M SINGLE SPAN COMPOSITE BRIDGE OVER MARINA RIVER

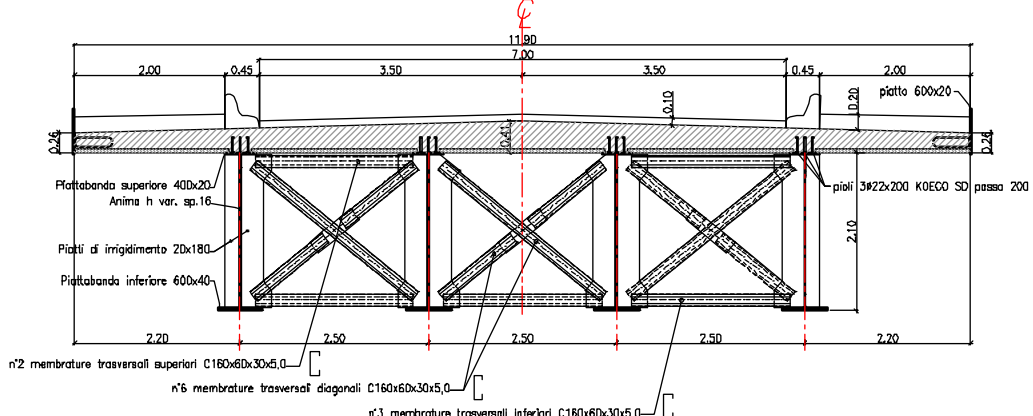
DESCRIPTION: DETAILED DESIGN OF A 46 M SINGLE SPAN COMPOSITE BRIDGE
ON MARINA STREAM IN CALENZANO (FI)

CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

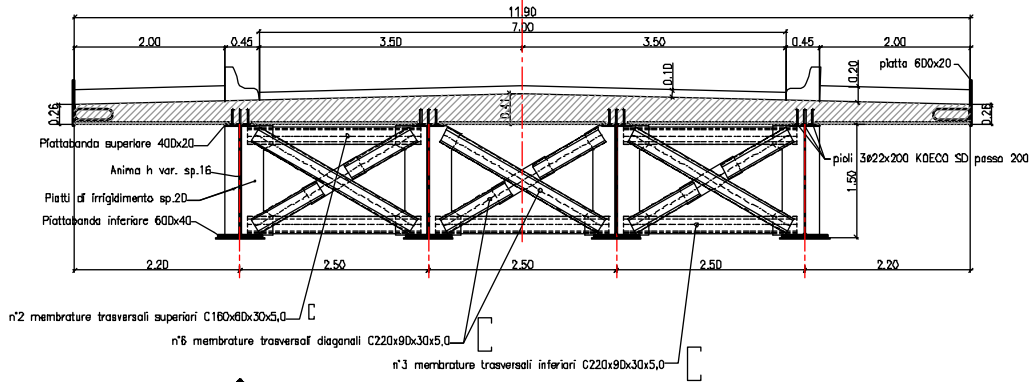
STATUS: BUILT



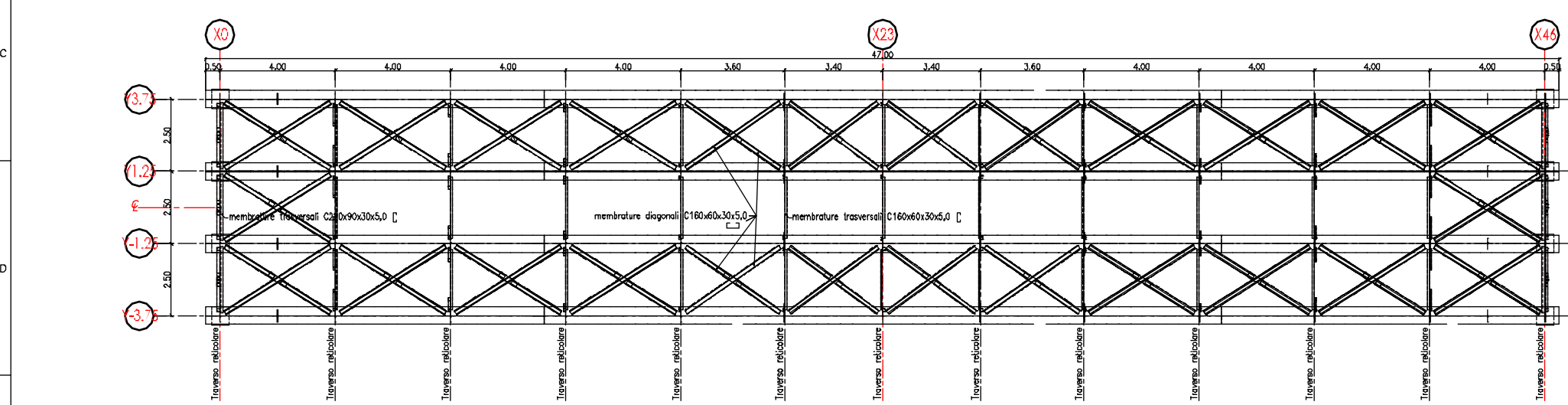
2 SEZIONE ASSE
Scala 1:100



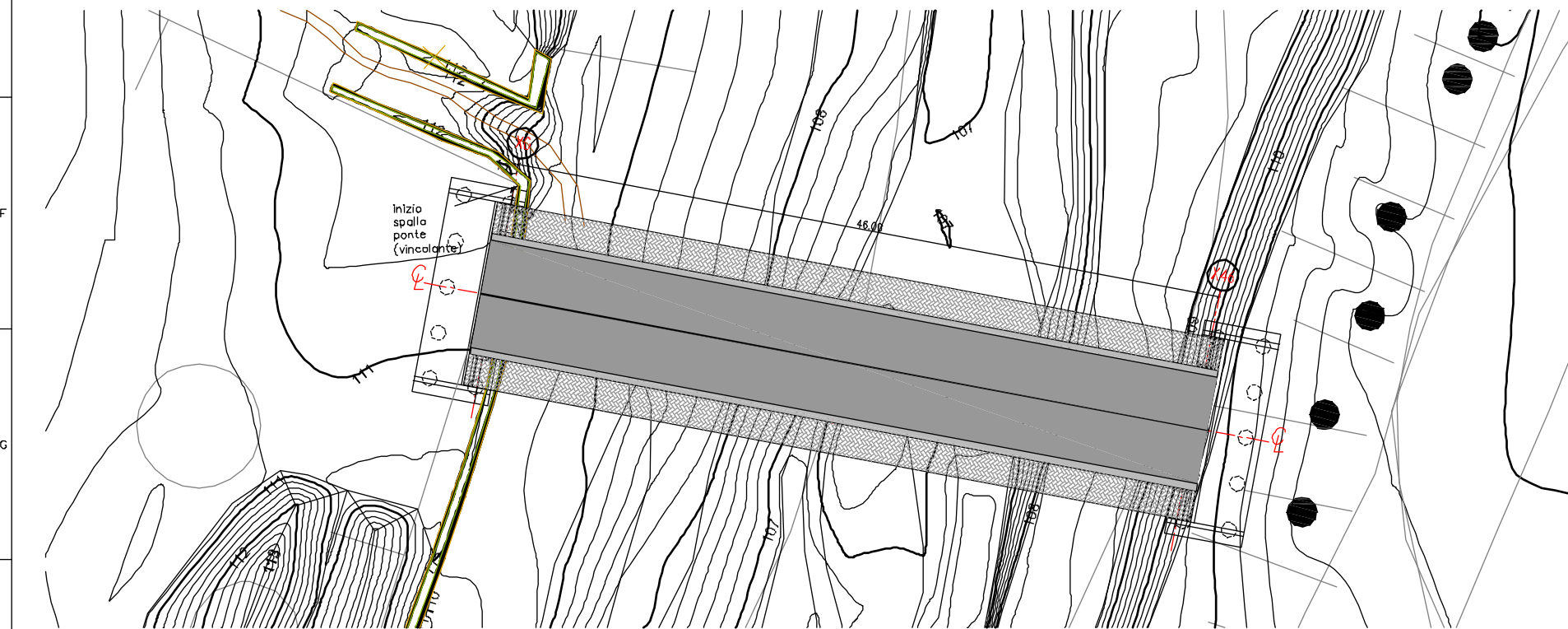
4 SEZIONE X23 in MEZZERIA
Scala 1:50



5 SEZIONE X0 e X46 all'APPOGGIO
Scala 1:50



3 PIANTA CONTROVENTATURA INFERIORE
Scala 1:100



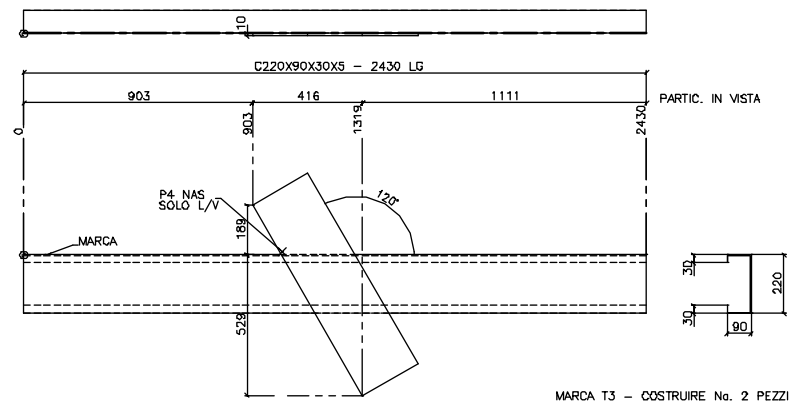
1 PLANIMETRIA
Scala 1:200

| | | | |
|--|--|---|--|
| Nome tecnico per le costruzioni: Dati: Istruzione 14 gen. 2008 | | classe di esposizione XC2 | |
| piedi: MATERIALI Acciaio: Corten; S235 | | travate: MATERIALI Acciaio: Corten; S355, S355, S355, S355 | |
| CORDONI DI SALDATURA TIPICI | | Lmin=200 | |
| baggli: MATERIALI Costruzione classe: C50/60 Armatura: B450C Copertura: 40 mm | | soletta: MATERIALI Costruzione classe: C25/35 Armatura: B450C Copertura: 40 mm | |
| pali: MATERIALI Costruzione classe: C25/30 Armatura: B450C Copertura: 80 mm | | spalle: MATERIALI Costruzione classe: C25/30 Armatura: B450C Copertura: 40 mm | |

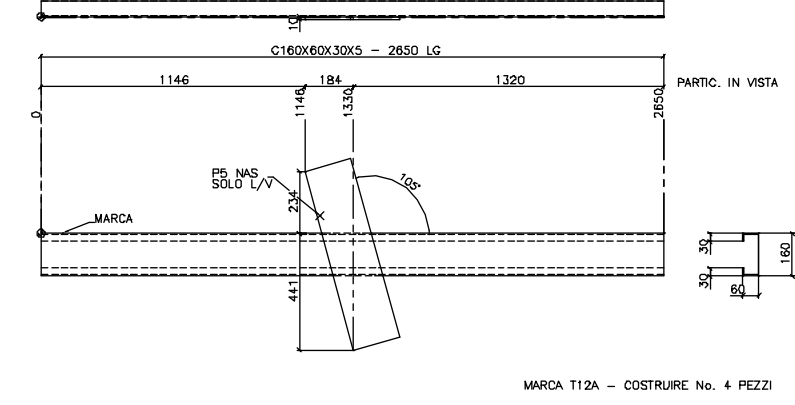
Quote altimetriche s.l.m. in m.
Quote e dimensioni in m, tranne indicazioni acciaio in mm

| | | | |
|-------------------------------------|----------|--|--|
| 0 | 29/06/09 | EMISSIONE | G.L. |
| REVISION | DATE | DESCRIPTION | CHECKED BY |
| | | LENCIONI | 826 |
| | | COSTRUZIONI METALLICHE s.r.l. | Tavolo 826-076-07-S01 |
| Committente Purchaser | | Impresa Cav. Pozzolini Lorenzo Via Vicinale Stella-50053 Empoli | Data Date 29/06/09 |
| Descrizione Description | | Costruzione ponte su torrente Marina | Disegnato da Drawn by Studio Techné srl |
| Ubicazione Impianto Job location | | Loc. Carraia - Calenzano (FI) | Responsabile commessa Job manager Bernardini |
| Titolo Title | | INSIEME GENERALE E ACCIAIO | Approvata approved by Ing. C. Lazzarini |

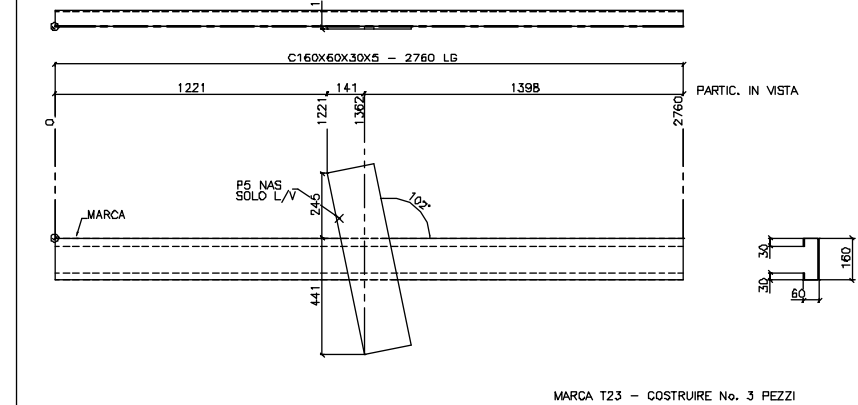




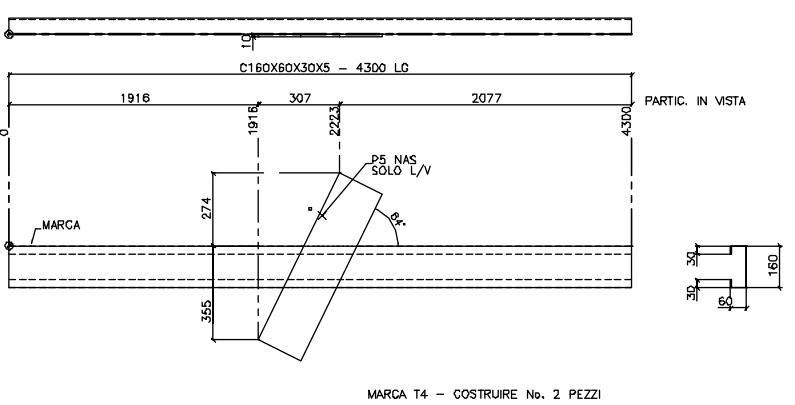
MARCA T3 - COSTRUIRE No. 2 PEZZI



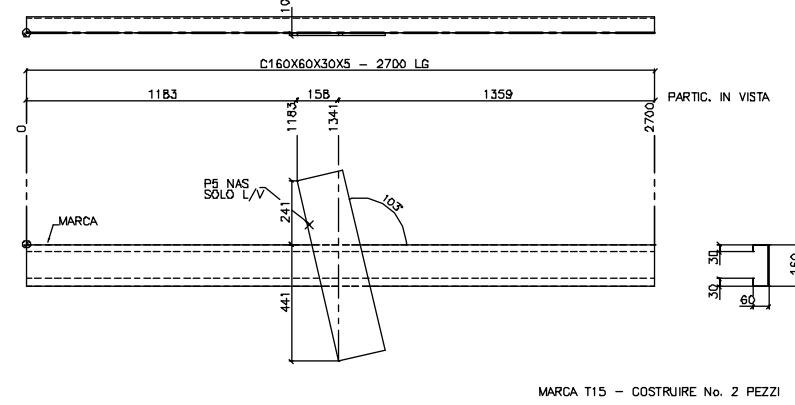
MARCA T12A - COSTRUIRE No. 4 PEZZI



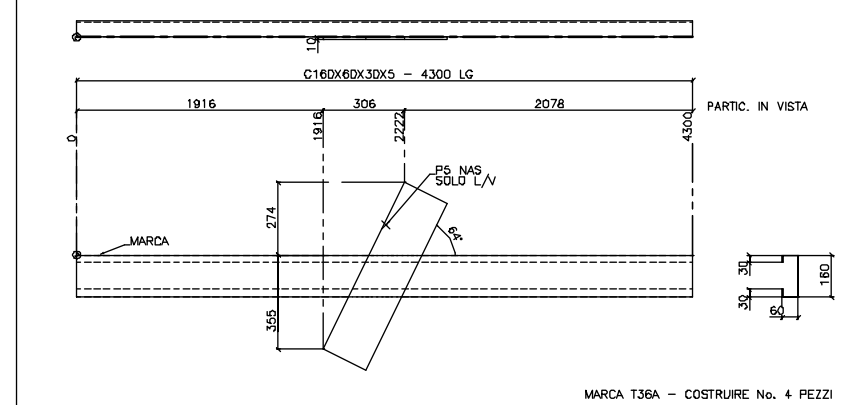
MARCA T23 - COSTRUIRE No. 3 PEZZI



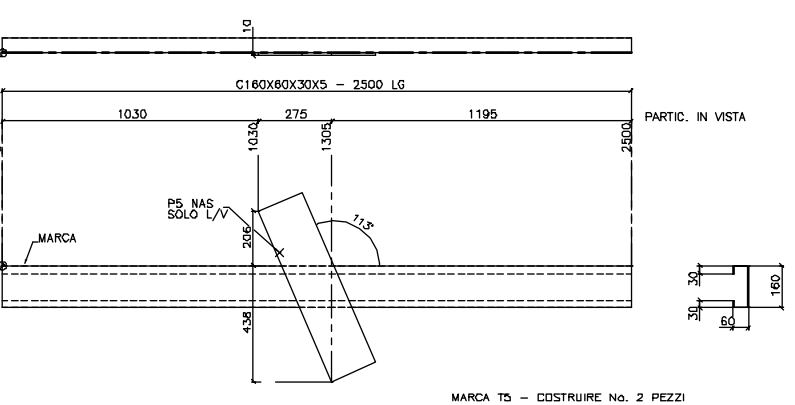
MARCA T4 - COSTRUIRE No. 2 PEZZI



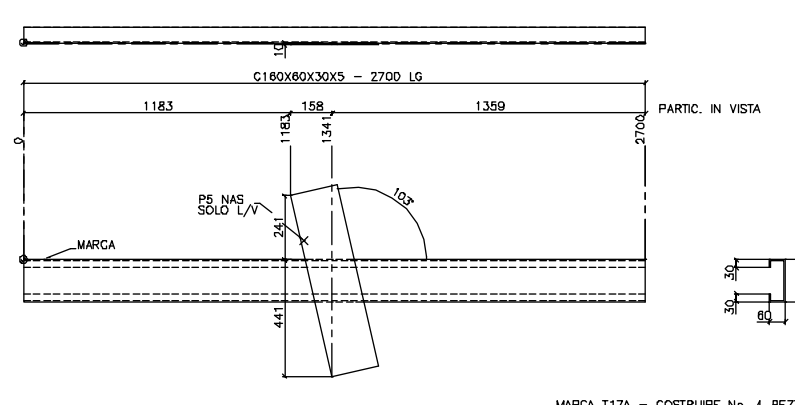
MARCA T15 - COSTRUIRE No. 2 PEZZI



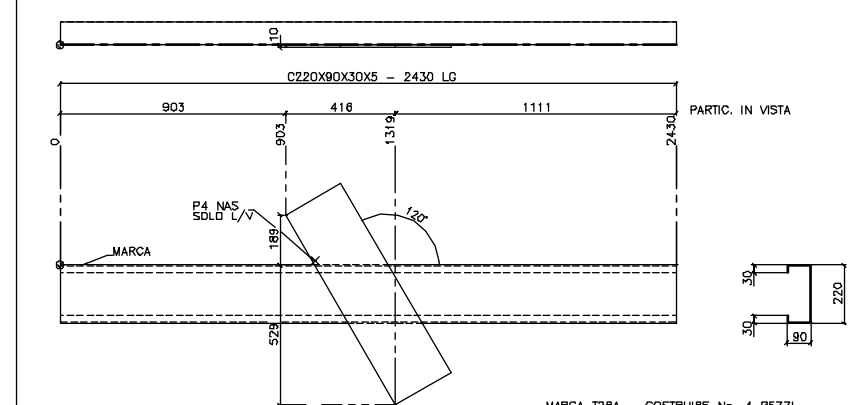
MARCA T36A - COSTRUIRE No. 4 PEZZI



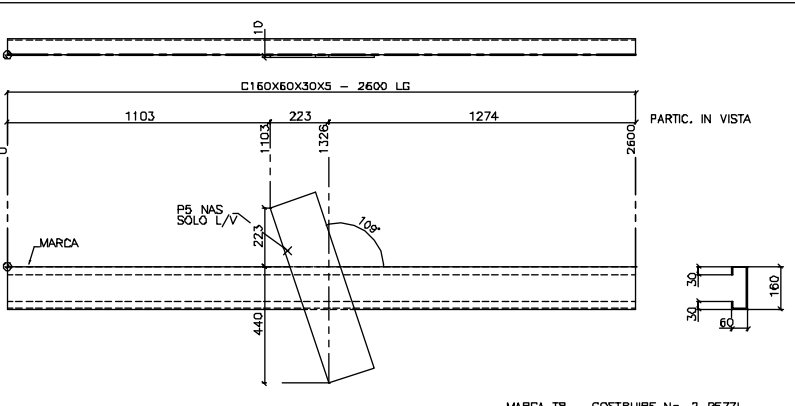
MARCA T5 - COSTRUIRE No. 2 PEZZI



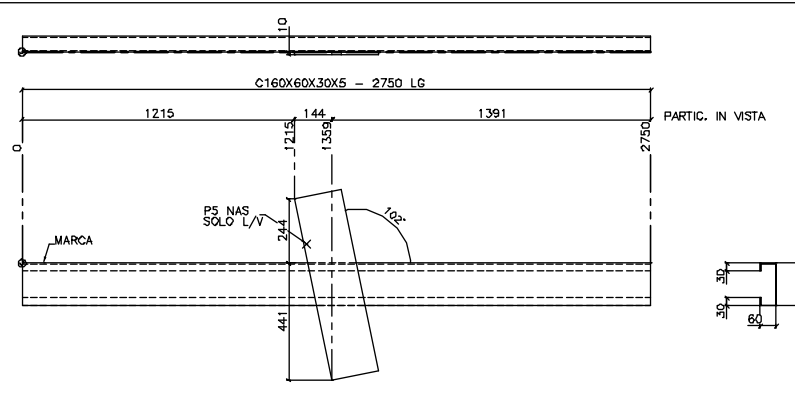
MARCA T17A - COSTRUIRE No. 4 PEZZI



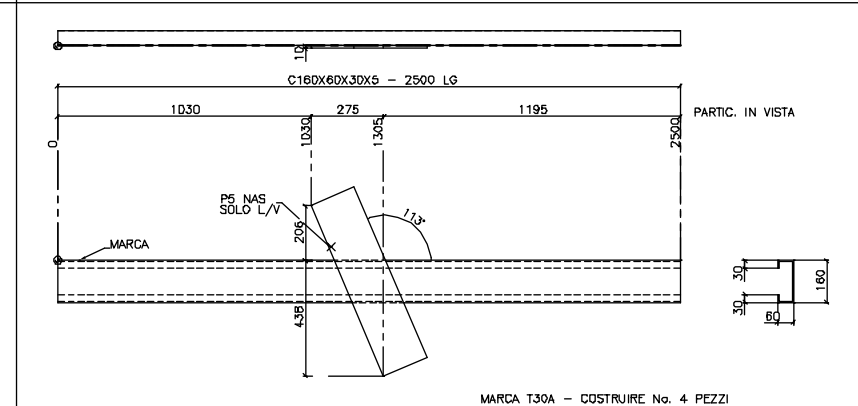
MARCA T28A - COSTRUIRE No. 4 PEZZI



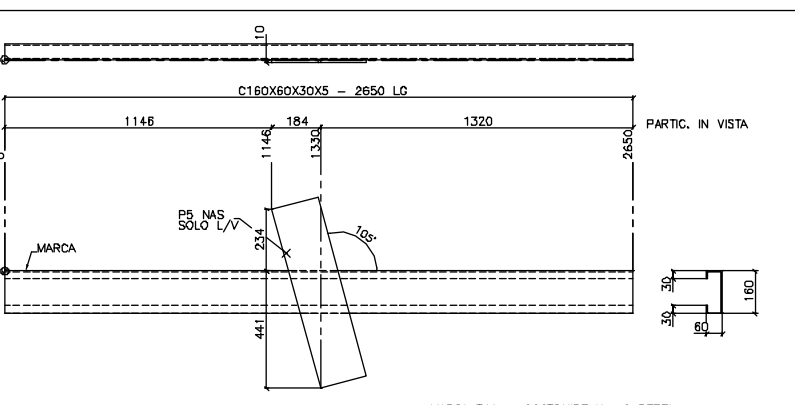
MARCA T8 - COSTRUIRE No. 2 PEZZI



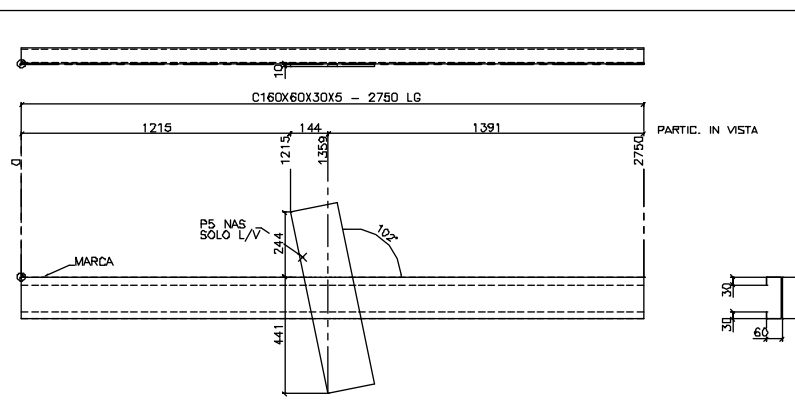
MARCA T20 - COSTRUIRE No. 2 PEZZI



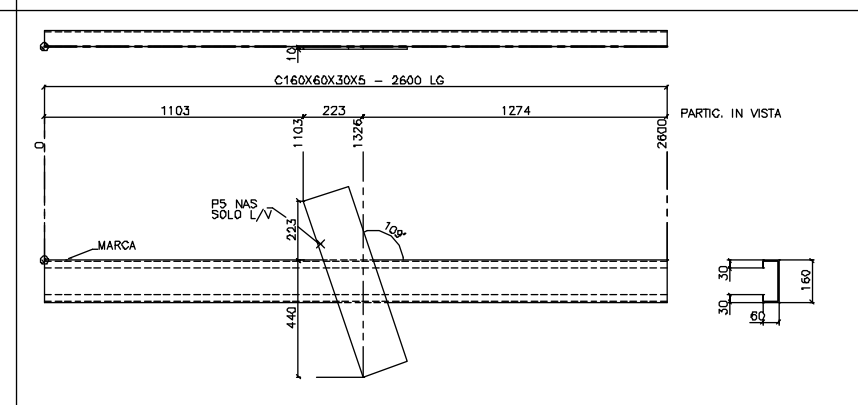
MARCA T30A - COSTRUIRE No. 4 PEZZI



MARCA T10 - COSTRUIRE No. 2 PEZZI



MARCA T22A - COSTRUIRE No. 4 PEZZI

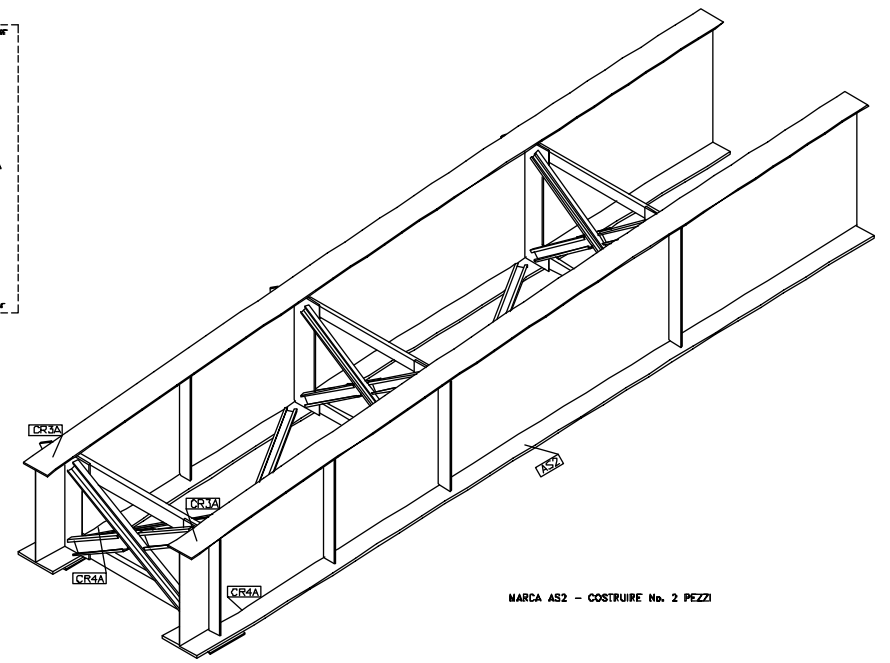
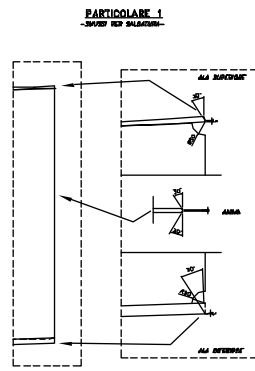
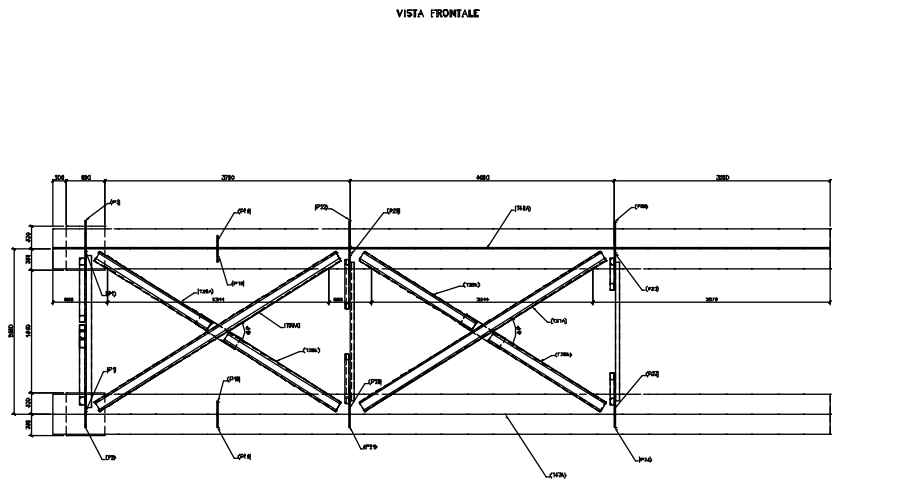
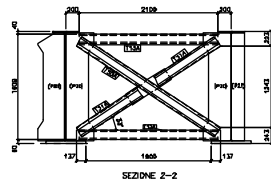
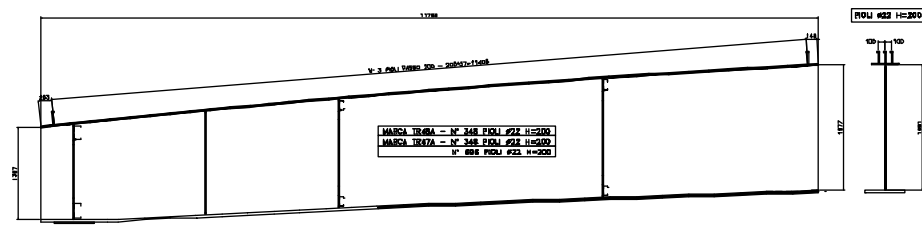
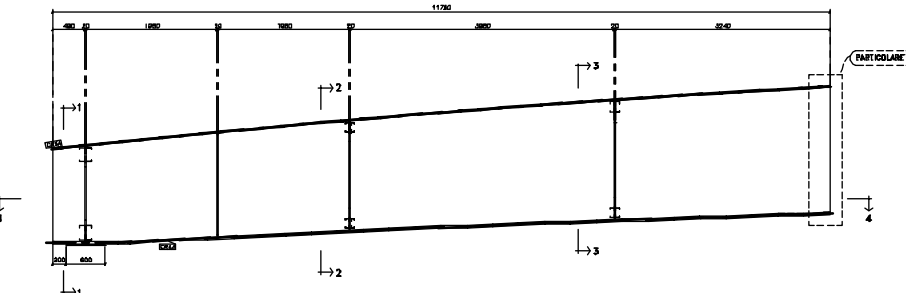
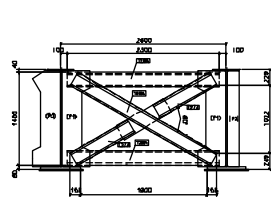


MARCA T32A - COSTRUIRE No. 4 PEZZI

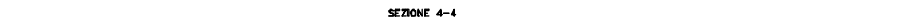
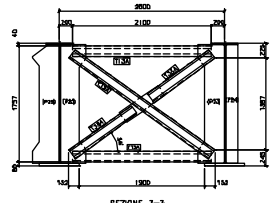
| DISTINTA MATERIALI | | | | | | | |
|--------------------|----|--------------|-------------|------------|------------------------|----------|-----------|
| Marca | N. | Tipo Sezione | Peso (kg/m) | Lungh. (m) | Area (m ²) | Peso (t) | Fori (N.) |
| T3 | 2 | C220X90X30X5 | 18,10 | 2,430 | 4,389 | 0,088 | 0 |
| T36A | 4 | C160X60X30X5 | 13,30 | 8,778 | 11,76 | 0,176 | 0 |
| T4 | 2 | C160X60X30X5 | 13,30 | 4,300 | 5,697 | 0,114 | 0 |
| T5 | 2 | C160X60X30X5 | 13,30 | 2,500 | 3,316 | 0,087 | 0 |
| T8 | 2 | C160X60X30X5 | 13,30 | 2,600 | 3,446 | 0,090 | 0 |
| T10 | 2 | C160X60X30X5 | 13,30 | 2,650 | 3,512 | 0,070 | 0 |
| T12A | 4 | C160X60X30X5 | 13,30 | 2,650 | 7,024 | 0,141 | 0 |
| T15 | 2 | C160X60X30X5 | 13,30 | 2,700 | 3,578 | 0,072 | 0 |
| T17A | 4 | C160X60X30X5 | 13,30 | 2,700 | 7,156 | 0,144 | 0 |
| T20 | 2 | C160X60X30X5 | 13,30 | 2,750 | 3,645 | 0,073 | 0 |
| T22A | 4 | C160X60X30X5 | 13,30 | 2,750 | 7,289 | 0,146 | 0 |
| T23 | 3 | C160X60X30X5 | 13,30 | 2,760 | 5,457 | 0,110 | 0 |
| T28A | 4 | C160X60X30X5 | 13,30 | 2,500 | 6,828 | 0,133 | 0 |
| T32A | 4 | C160X60X30X5 | 13,30 | 2,600 | 6,892 | 0,138 | 0 |
| T36A | 4 | C160X60X30X5 | 13,30 | 4,300 | 11,394 | 0,229 | 0 |
| P5 | 39 | 180X10PLT | 14,13 | 0,700 | 10,514 | 0,388 | 0 |
| P4 | 6 | 240X10PLT | 18,84 | 0,630 | 2,519 | 0,094 | 0 |
| Totale | | | | | | 90 Pezzi | 2,250 |

SALDATURE D'ANGOLO SECONDO SPECIFICA LENCIONI N° 07
 SALDATURE A PIENA PENETRAZIONE SECONDO SPECIFICA LENCIONI N° 01
 A = ANTERIORE
 P = POSTERIORE
 ⊗ MARCA DI ORIENTAMENTO

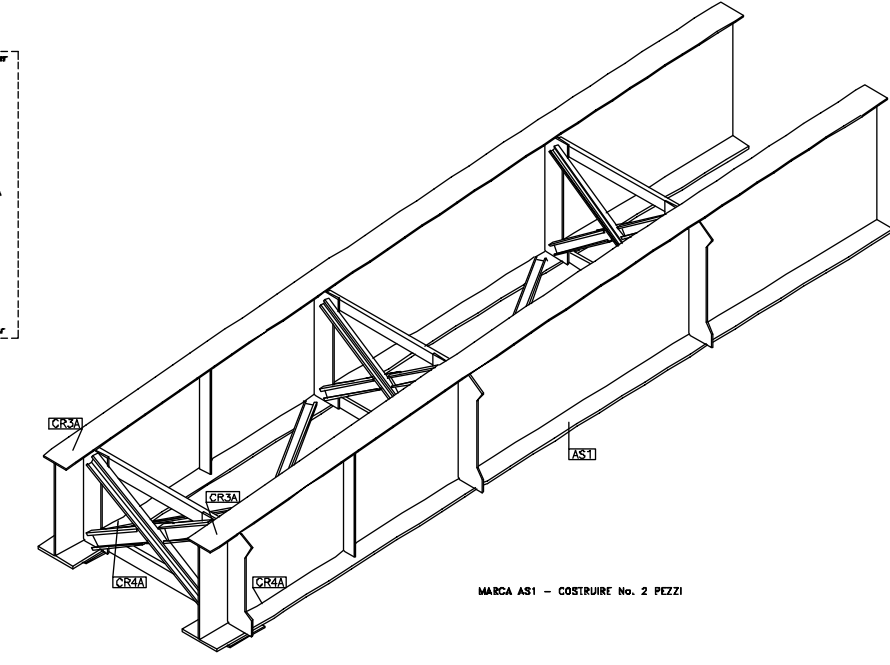
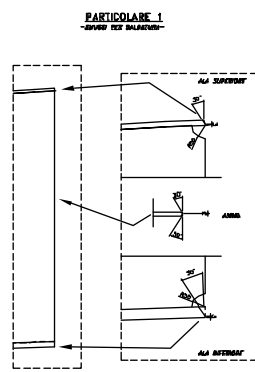
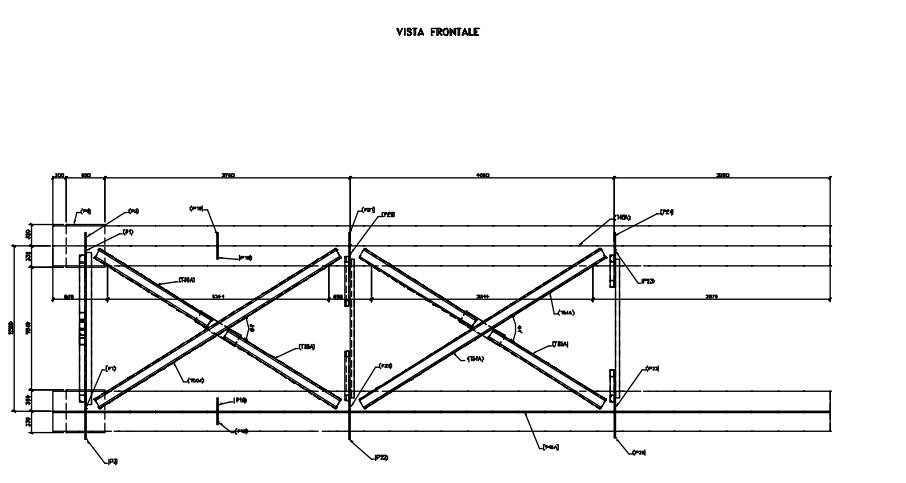
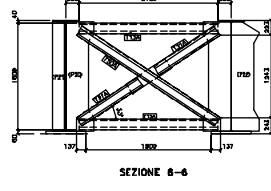
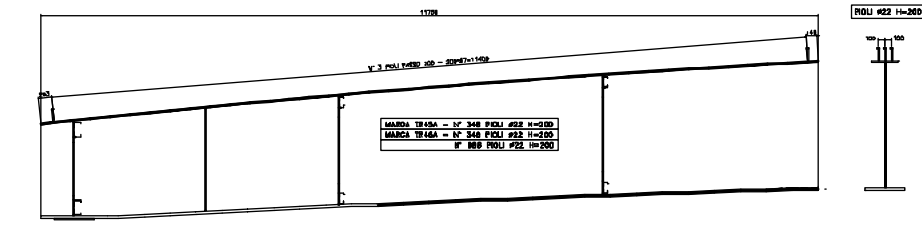
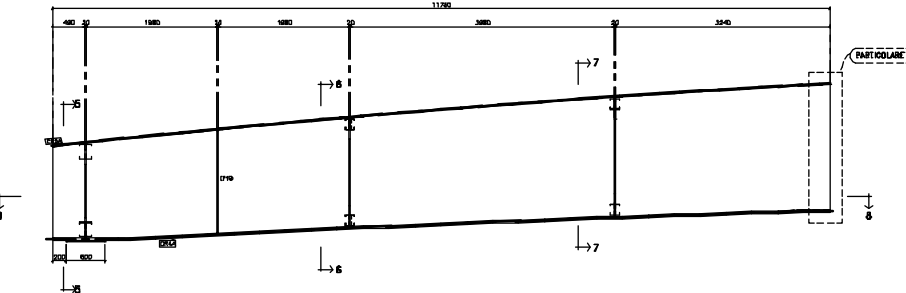
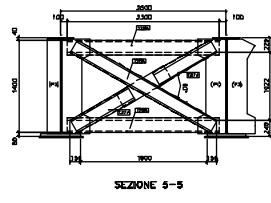
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|------------------------|----------|--------------------------------------|-----------------|-------------|
| 0 | 16/06/09 | EMISSIONE | U.T.E. | APPROVED BY |
| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | LENCIONI | 826 | |
| | | Costruzioni Metalliche s.r.l. | 826-003-COS-001 | |
| Committente | | Impresa Cav. Pozzolini Lorenzo | | |
| Purchaser | | Via Vicinale Stella-50053 Empoli | | |
| Data | | 16/06/09 | | |
| Scala | | 1:10 | | |
| Disegnato da | | CS PROJECTS S.p.A. | | |
| Disegnato da | | Costruzione ponte su torrente Marina | | |
| Utilizzazione Impianto | | Loc. Carraia - Calenzano (FI) | | |
| Responsabile commessa | | job manager | | |
| Titolo | | ESECUTIVI D'OFFICINA | | |
| Approvato | | approved by | | |



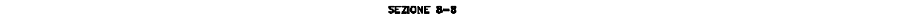
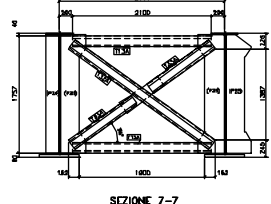
| MARCA AS1 | | | | | |
|---|--------------|------------|---------|----------|----------------|
| DISTINTA MAT. D'OFFICINA PER 2 MONTAGGI | | | | | |
| MARCA | SEZ. | LUNGH. MM. | NO. M2. | AREA M2. | PESO KG. |
| P1 | 42X20PLT | 1438 | 4 | 4.29 | 313.1 |
| P2 | 182X20PLT | 1438 | 2 | 1.23 | 86.6 |
| P3 | 42X20PLT | 1438 | 2 | 2.07 | 150.8 |
| P4 | 24X110PLT | 830 | 2 | 0.94 | 31.3 |
| P5 | 182X10PLT | 700 | 8 | 2.16 | 79.1 |
| P9 | 60X20PLT | 860 | 4 | 3.37 | 248.7 |
| P19 | 182X20PLT | 1560 | 8 | 5.34 | 375.7 |
| P20 | 42X20PLT | 1648 | 4 | 5.04 | 369.8 |
| P21 | 182X20PLT | 1648 | 2 | 1.41 | 99.2 |
| P22 | 42X20PLT | 1648 | 2 | 2.43 | 177.9 |
| P23 | 40X20PLT | 1795 | 4 | 6.08 | 370.9 |
| P24 | 182X20PLT | 1795 | 2 | 1.63 | 108.1 |
| P25 | 40X20PLT | 1795 | 2 | 2.45 | 178.4 |
| CR3A | 40X20PLT | 11788 | 4 | 39.67 | 2961.3 |
| CR4A | 60X40PLT | 11759 | 4 | 60.40 | 8861.9 |
| T13A | C16DX60X30XS | 2100 | 8 | 11.14 | 223.4 |
| T27A | C22DX90X30XS | 1000 | 4 | 3.62 | 72.4 |
| T28A | C22DX90X30XS | 2430 | 2 | 4.36 | 88.0 |
| T28A | C22DX90X30XS | 2300 | 4 | 8.31 | 168.5 |
| T30A | C16DX60X30XS | 2500 | 2 | 3.31 | 66.5 |
| T31A | C16DX60X30XS | 1100 | 4 | 2.92 | 58.5 |
| T32A | C16DX60X30XS | 2600 | 2 | 3.45 | 69.2 |
| T33A | C16DX60X30XS | 1150 | 4 | 3.05 | 61.2 |
| T39A | C16DX60X30XS | 2000 | 8 | 10.61 | 212.8 |
| T46A | 190X18PLT | 11837 | 2 | 80.25 | 5918.7 |
| T46A | 190X18PLT | 11837 | 2 | 80.25 | 5918.7 |
| T50A | C16DX60X30XS | 4300 | 2 | 5.70 | 114.4 |
| T51A | C16DX60X30XS | 4300 | 2 | 5.70 | 114.4 |
| TOTALE | | | | | 360.01 27497.1 |



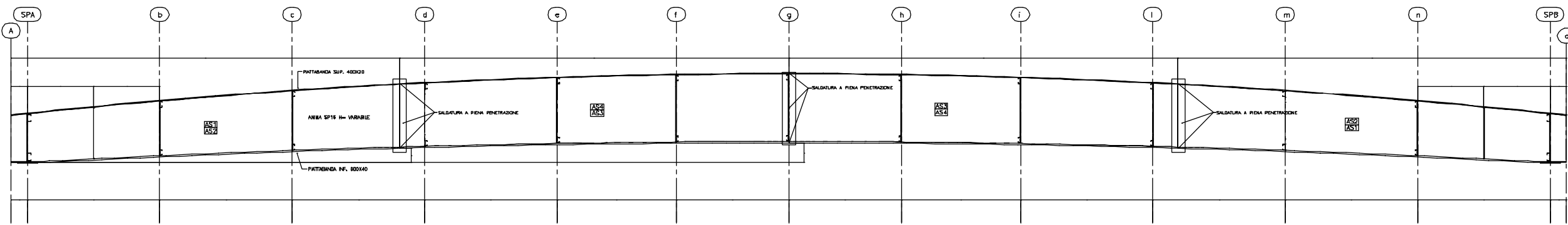
| MARCA AS2 | | | | | |
|---|--------------|------------|---------|----------|----------------|
| DISTINTA MAT. D'OFFICINA PER 2 MONTAGGI | | | | | |
| MARCA | SEZ. | LUNGH. MM. | NO. M2. | AREA M2. | PESO KG. |
| P1 | 42X20PLT | 1438 | 4 | 4.29 | 313.1 |
| P2 | 182X20PLT | 1438 | 2 | 1.23 | 86.6 |
| P3 | 42X20PLT | 1438 | 2 | 2.07 | 150.8 |
| P4 | 24X110PLT | 830 | 2 | 0.94 | 31.3 |
| P5 | 182X10PLT | 700 | 8 | 2.16 | 79.1 |
| P9 | 60X20PLT | 860 | 4 | 3.37 | 248.7 |
| P19 | 182X20PLT | 1560 | 8 | 5.34 | 375.7 |
| P20 | 42X20PLT | 1648 | 4 | 5.04 | 369.8 |
| P21 | 182X20PLT | 1648 | 2 | 1.41 | 99.2 |
| P22 | 42X20PLT | 1648 | 2 | 2.43 | 177.9 |
| P23 | 40X20PLT | 1795 | 4 | 6.08 | 370.9 |
| P24 | 182X20PLT | 1795 | 2 | 1.63 | 108.1 |
| P25 | 40X20PLT | 1795 | 2 | 2.45 | 178.4 |
| CR3A | 40X20PLT | 11788 | 4 | 39.67 | 2961.3 |
| CR4A | 60X40PLT | 11759 | 4 | 60.40 | 8861.9 |
| T13A | C16DX60X30XS | 2100 | 8 | 11.14 | 223.4 |
| T27A | C22DX90X30XS | 1000 | 4 | 3.62 | 72.4 |
| T28A | C22DX90X30XS | 2430 | 2 | 4.36 | 88.0 |
| T28A | C22DX90X30XS | 2300 | 4 | 8.31 | 168.5 |
| T30A | C16DX60X30XS | 2500 | 2 | 3.31 | 66.5 |
| T31A | C16DX60X30XS | 1100 | 4 | 2.92 | 58.5 |
| T32A | C16DX60X30XS | 2600 | 2 | 3.45 | 69.2 |
| T33A | C16DX60X30XS | 1150 | 4 | 3.05 | 61.2 |
| T39A | C16DX60X30XS | 2000 | 8 | 10.61 | 212.8 |
| T47A | 190X18PLT | 11837 | 2 | 80.25 | 5918.7 |
| T48A | 190X18PLT | 11837 | 2 | 80.25 | 5918.7 |
| T50A | C16DX60X30XS | 4300 | 2 | 5.70 | 114.4 |
| T51A | C16DX60X30XS | 4300 | 2 | 5.70 | 114.4 |
| TOTALE | | | | | 360.01 27497.1 |



SALDATURE D'ANGOLO SECONDO SPECIFICA LENCIONI N° 07
 SALDATURE A PIENA PENETRAZIONE SECONDO SPECIFICA LENCIONI N° 01
 A = ANTERIORE
 P = POSTERIORE
 ⊗ MARCA DI ORIENTAMENTO

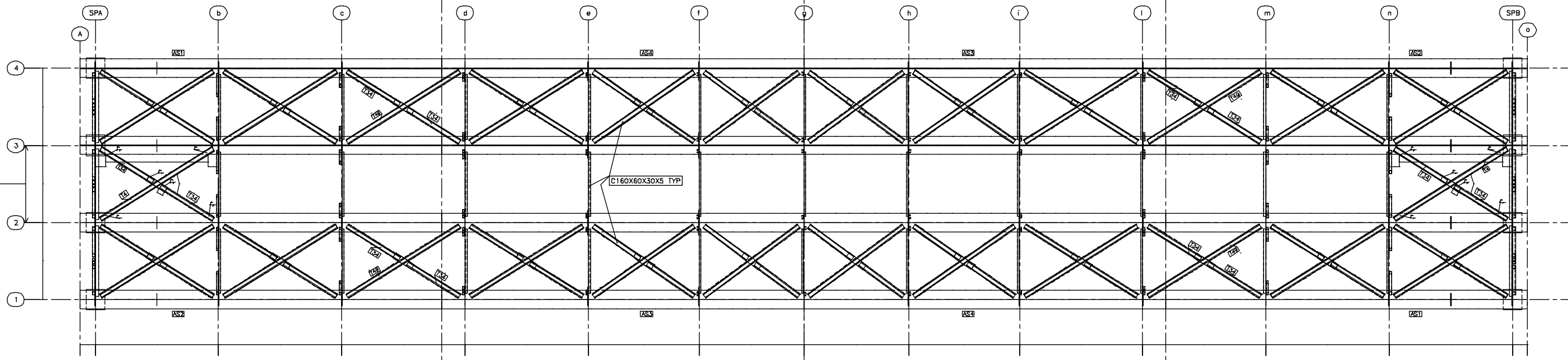


| | | | | |
|--|----------|-------------|--|-------------|
| 0 | 16/06/09 | EMMISSIONE | U.T.E. | |
| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | | Commissa Job | 826 |
| COSTRUZIONI METALLICHE s.r.l. Via Vicinale Stella-50053 Empoli Tel. ++39 0585 69271 fax ++39 0585 370611 http://www.lenconi.it | | | Titolo 826-001-COS-001 Data 16/06/09 Scala 1:40 | |
| Descrizione Costruzione ponte su torrente Marina | | | Disegnato da CS PROJECTS S.p.A. | |
| Utilizzazione Impianto Loc. Carraia - Calenzano (FI) | | | Responsabile commessa job manager Bernardini | |
| Titolo ASSEMBLAGGI MARCA AS1 & AS2 | | | Approvato approved by | |

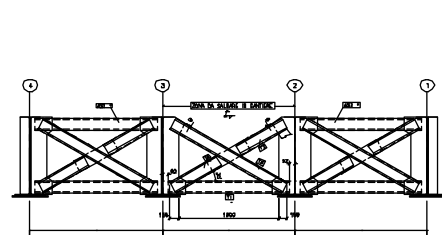


PROSPETTO LATERALE

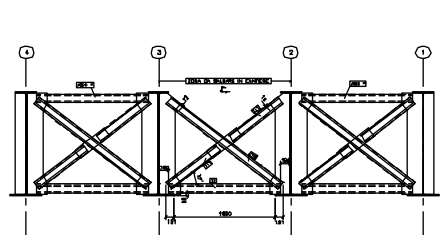
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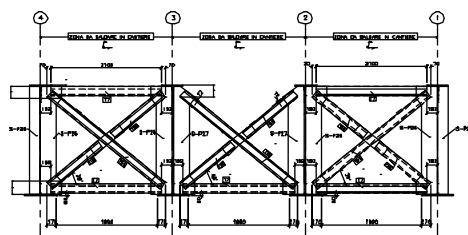
PIANTA CONTROVENTATURA INFERIORE



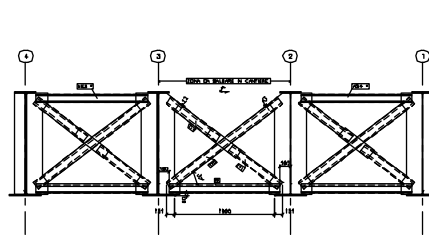
ALLINEAMENTO FILO SPA
(C200X90X30X5 TYP)



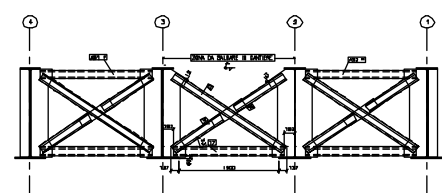
ALLINEAMENTO FILO D
(C160X60X30X5 TYP)



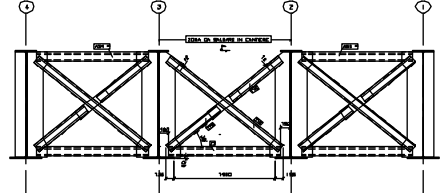
ALLINEAMENTO FILO G
(C160X60X30X5 TYP)



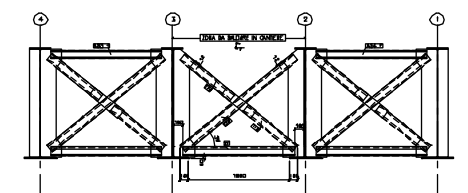
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(C160X60X30X5 TYP)



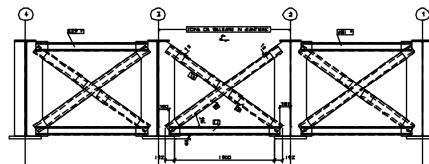
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(C160X60X30X5 TYP)



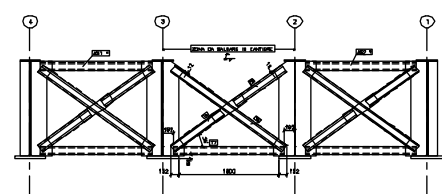
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(C160X60X30X5 TYP)



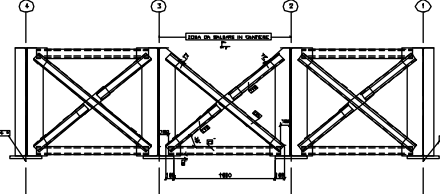
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(C160X60X30X5 TYP)



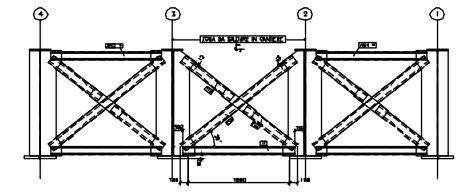
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(C160X60X30X5 TYP)



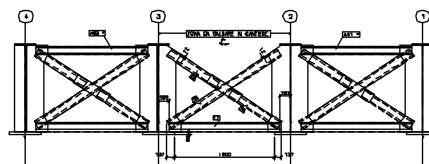
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(C160X60X30X5 TYP)



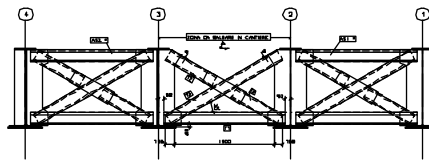
ALLINEAMENTO FILO F
(C160X60X30X5 TYP)



ALLINEAMENTO FILO I
(C160X60X30X5 TYP)



ALLINEAMENTO FILO N
(C160X60X30X5 TYP)



ALLINEAMENTO FILO SPB
(C200X90X30X5 TYP)

- SALDATURE D'ANGOLO SECONDO SPECIFICA LENCIONI N° 07
- SALDATURE A PENA PENETRAZIONE SECONDO SPECIFICA LENCIONI N° 01
- A = ANTERIORE
- P = POSTERIORE
- MARCA DI ORIENTAMENTO

| | | | | |
|---------------------------------------|----------|---|--------------------------------------|-------------------|
| 0 | 16/06/09 | EMMISSIONE | U.T.E. | APPROVED BY |
| REVISION | DATE | DESCRIPTION | CHECKED BY | COMMISSION Job |
| | | LENCIONI COSTRUZIONI METALLICHE s.r.l. Via Vicinale Stella-50053 Empoli Tel. ++39 0585 69027 (4. fax ++39 0585 37061 info@lencioni.it) | | 826 |
| Committente Purchaser | | Impresa Cav. Pozzolini Lorenzo Via Vicinale Stella-50053 Empoli | Date Date | 16/06/09 |
| Descrizione Description | | Costruzione ponte su torrente Marina | Scale Scale | 1:50 |
| Utilizzatore Impianto Job location | | Lac. Carraia - Calenzano (FI) | Disegnato da Drawn by | CS PROJETS S.p.A. |
| Titolo Title | | ASSEMBLAGGIO IN CANTIERE | Responsabile commessa Job manager | Bernardini |
| | | | Approvato approved by | |



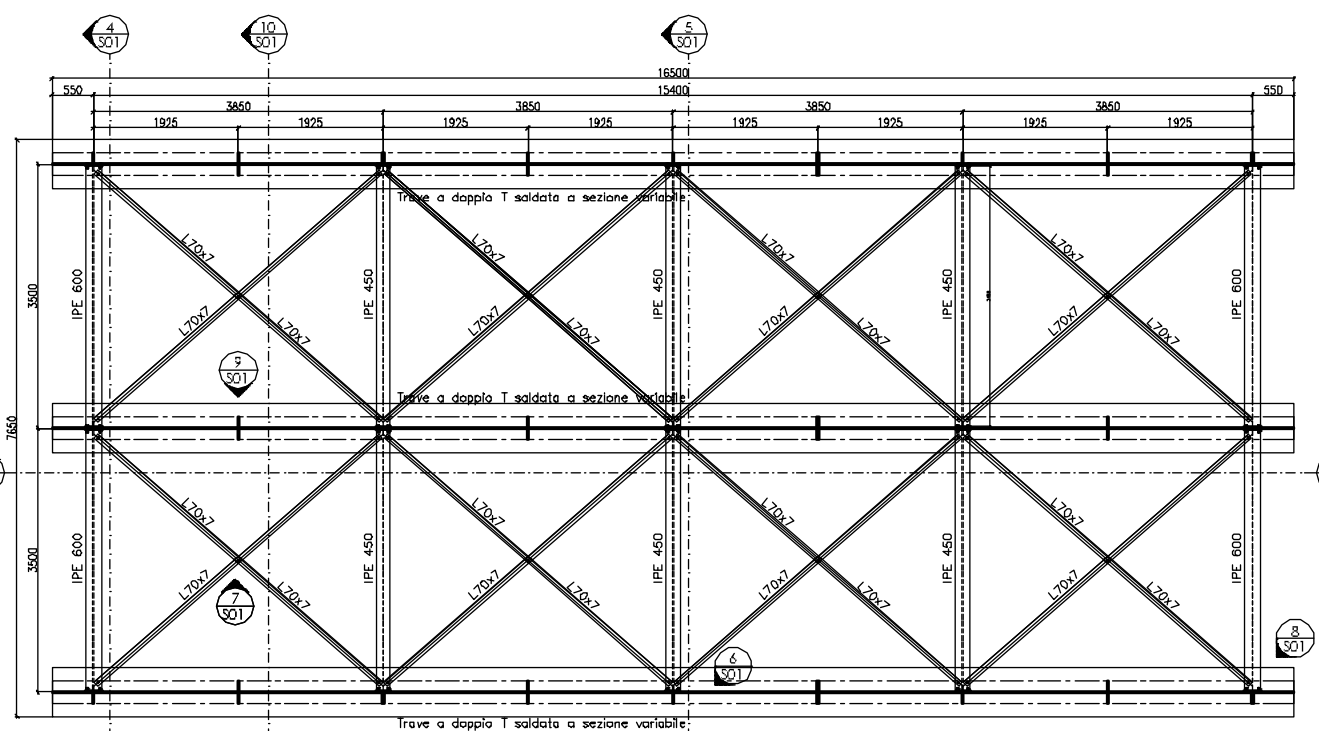


SINGLE SPAN COMPOSITE BRIDGE OVER TRESSA STREAM

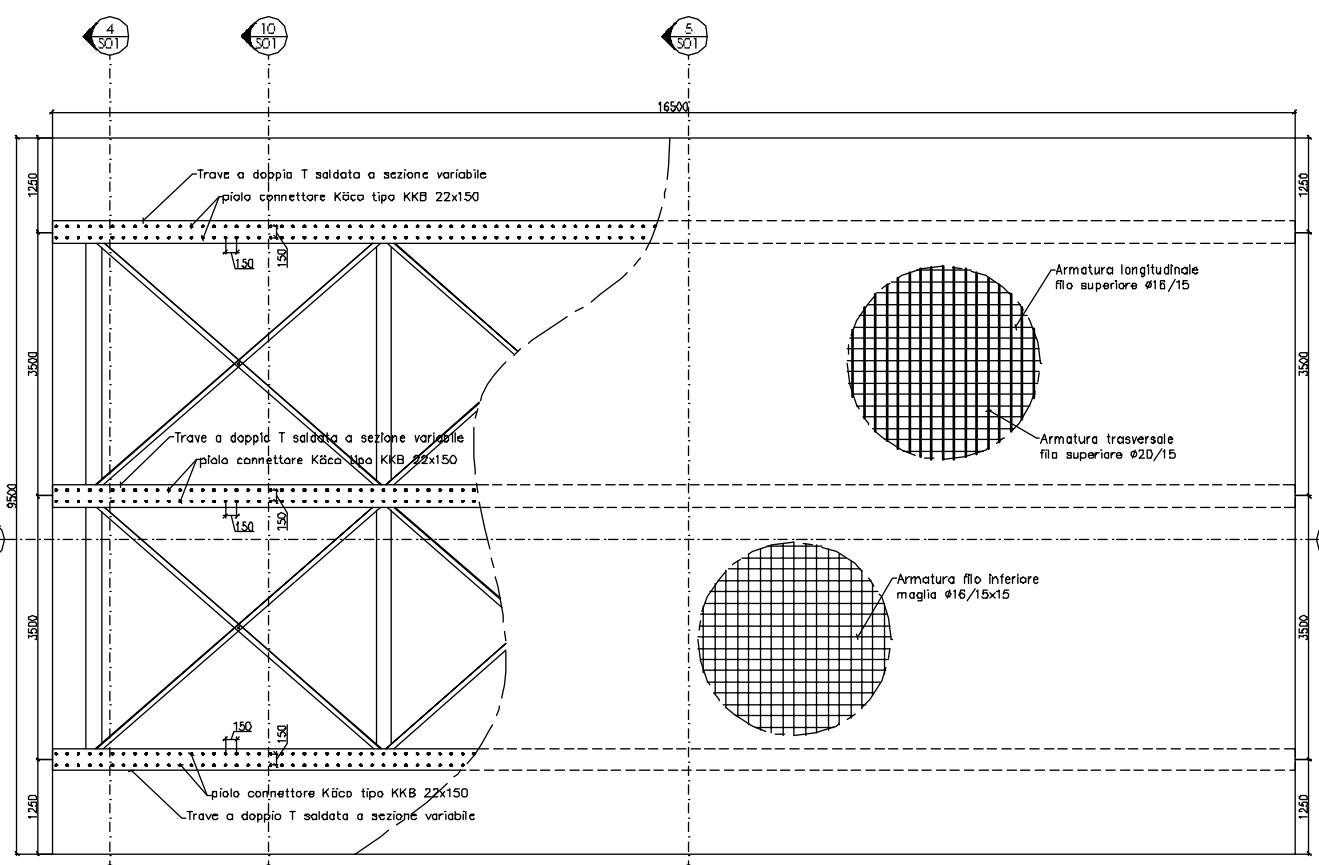
DESCRIZIONE: DETAILED DESIGN OF A SINGLE SPAN COMPOSITE BRIDGE ON TRESSA STREAM IN SIENA

CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

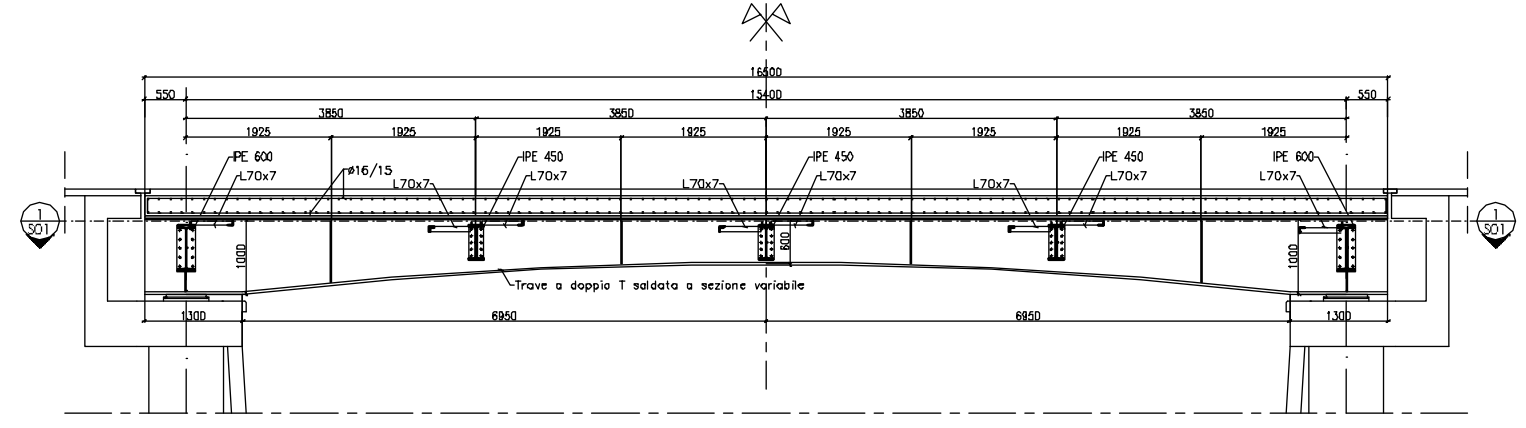
STATUS: BUILT



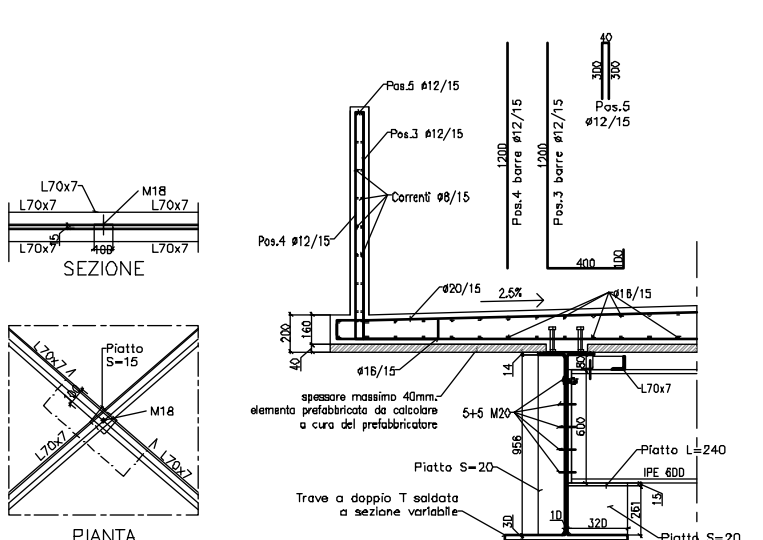
1 PLANIMETRIA
Scala 1:50



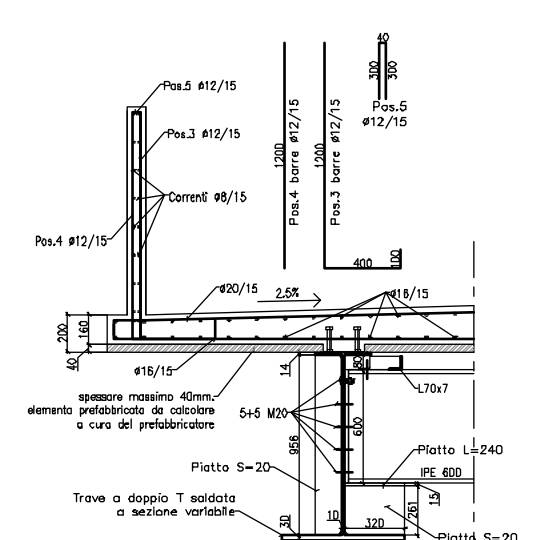
2 PLANIMETRIA IMPALCATO
Scala 1:50



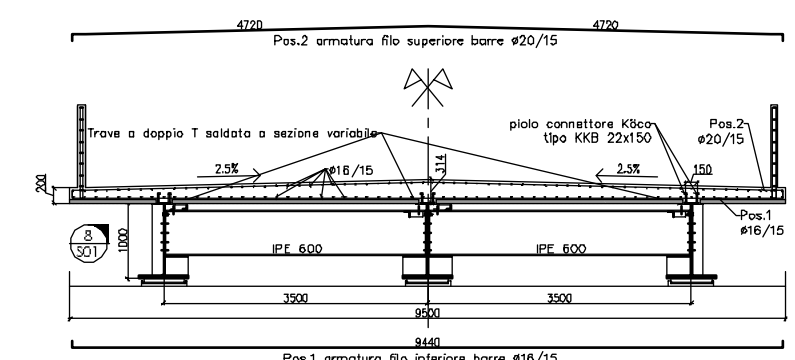
3 SEZIONE
Scala 1:50



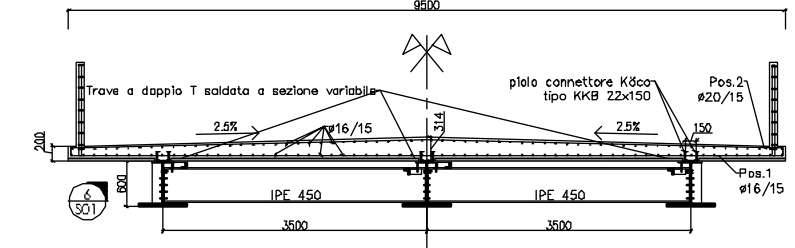
7 SEZIONE
Scala 1:20



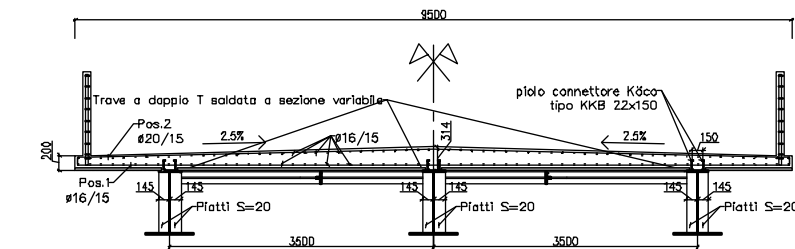
8 SEZIONE
Scala 1:20



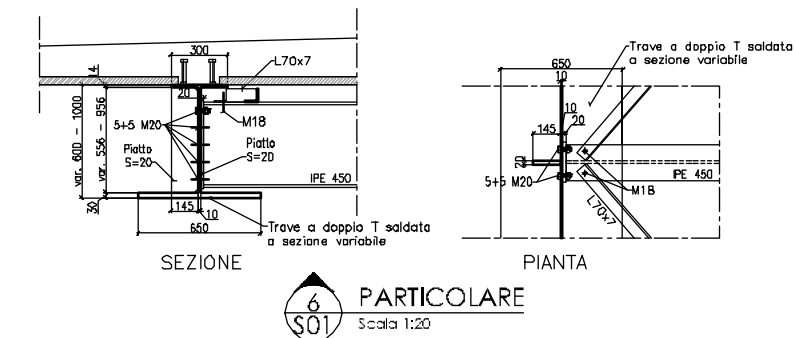
4 SEZIONE
Scala 1:50



5 SEZIONE
Scala 1:50



10 SEZIONE
Scala 1:50



6 SEZIONE
Scala 1:20

VU* 105-15/20
TRASVERSALE
V = 950 KN
Hx = 147 KN
Hy = 0

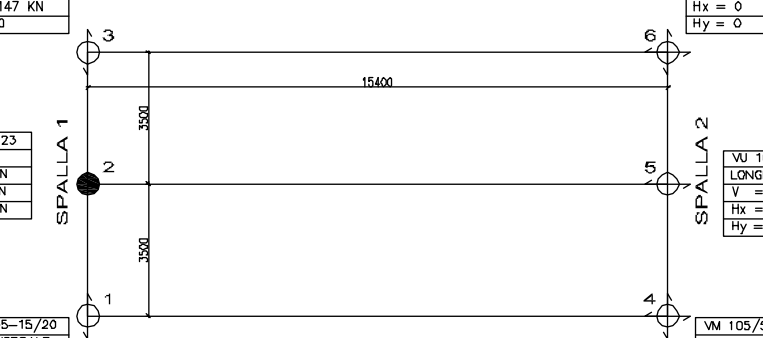
VM 105/50/20
MULTIDIREZIONALE
V = 950 KN
Hx = 0
Hy = 0

VF 105-15-23
FISSO
V = 950 KN
Hx = 147 KN
Hy = 220 KN

VM 105/50/20
MULTIDIREZIONALE
V = 950 KN
Hx = 0
Hy = 220 KN

VU* 105-15/20
TRASVERSALE
V = 950 KN
Hx = 147 KN
Hy = 0

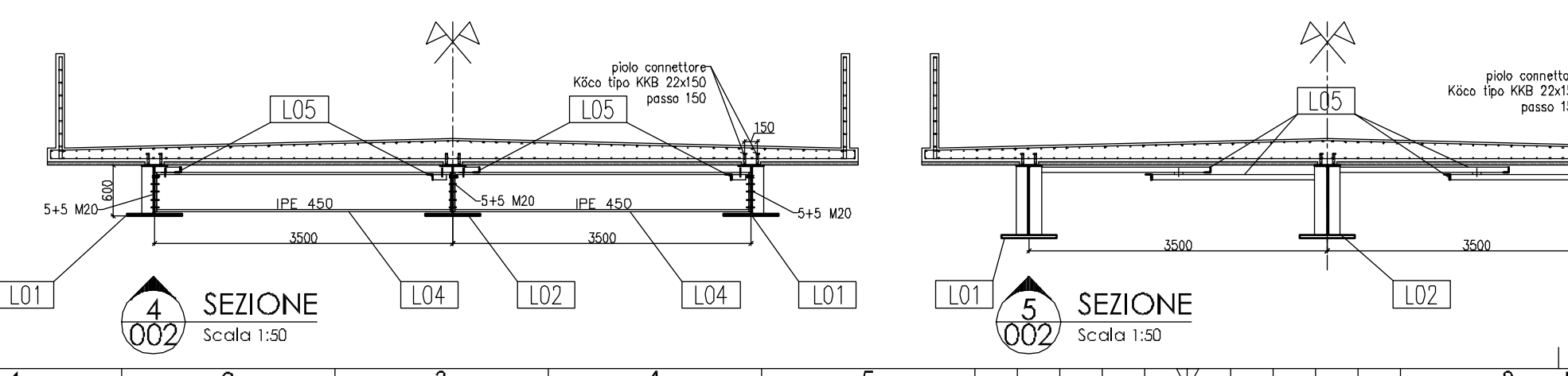
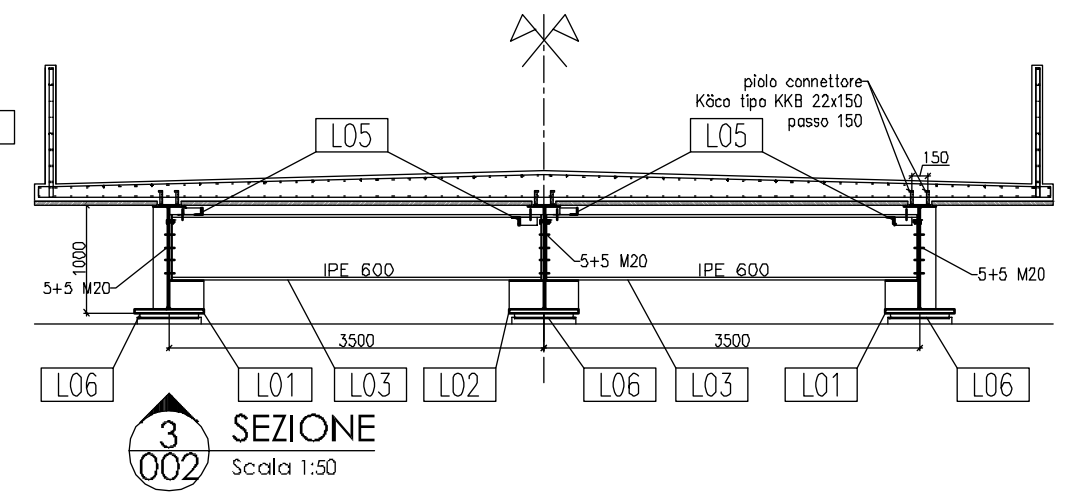
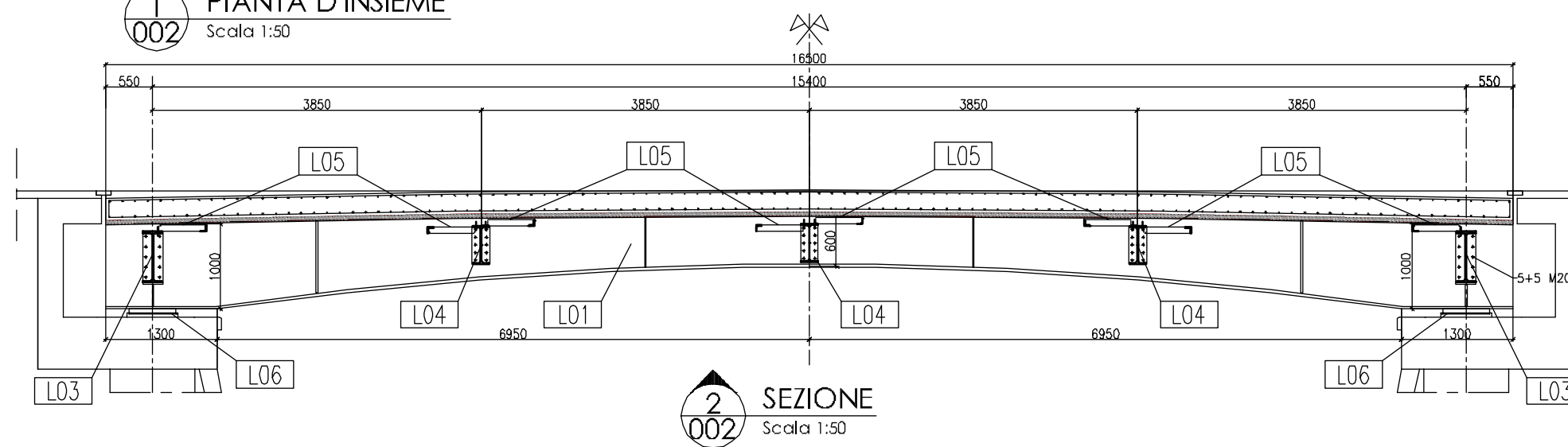
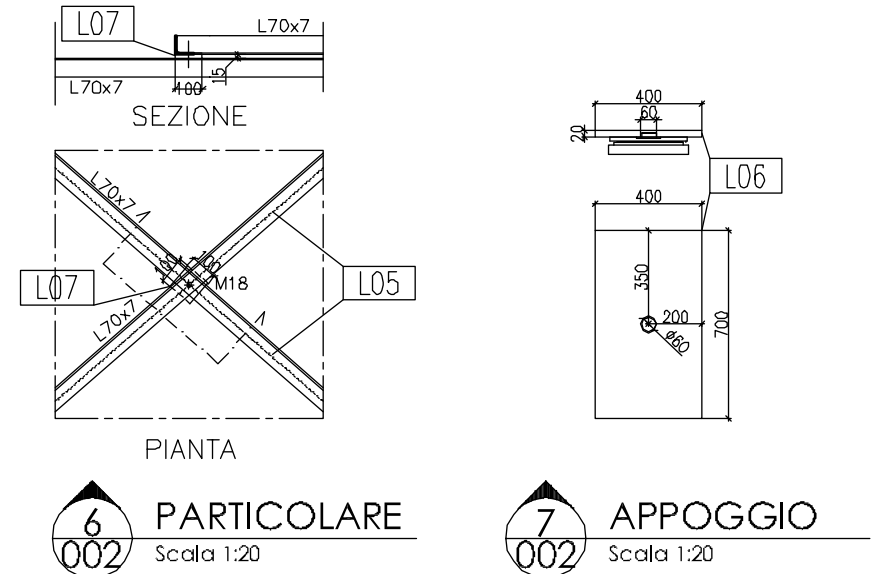
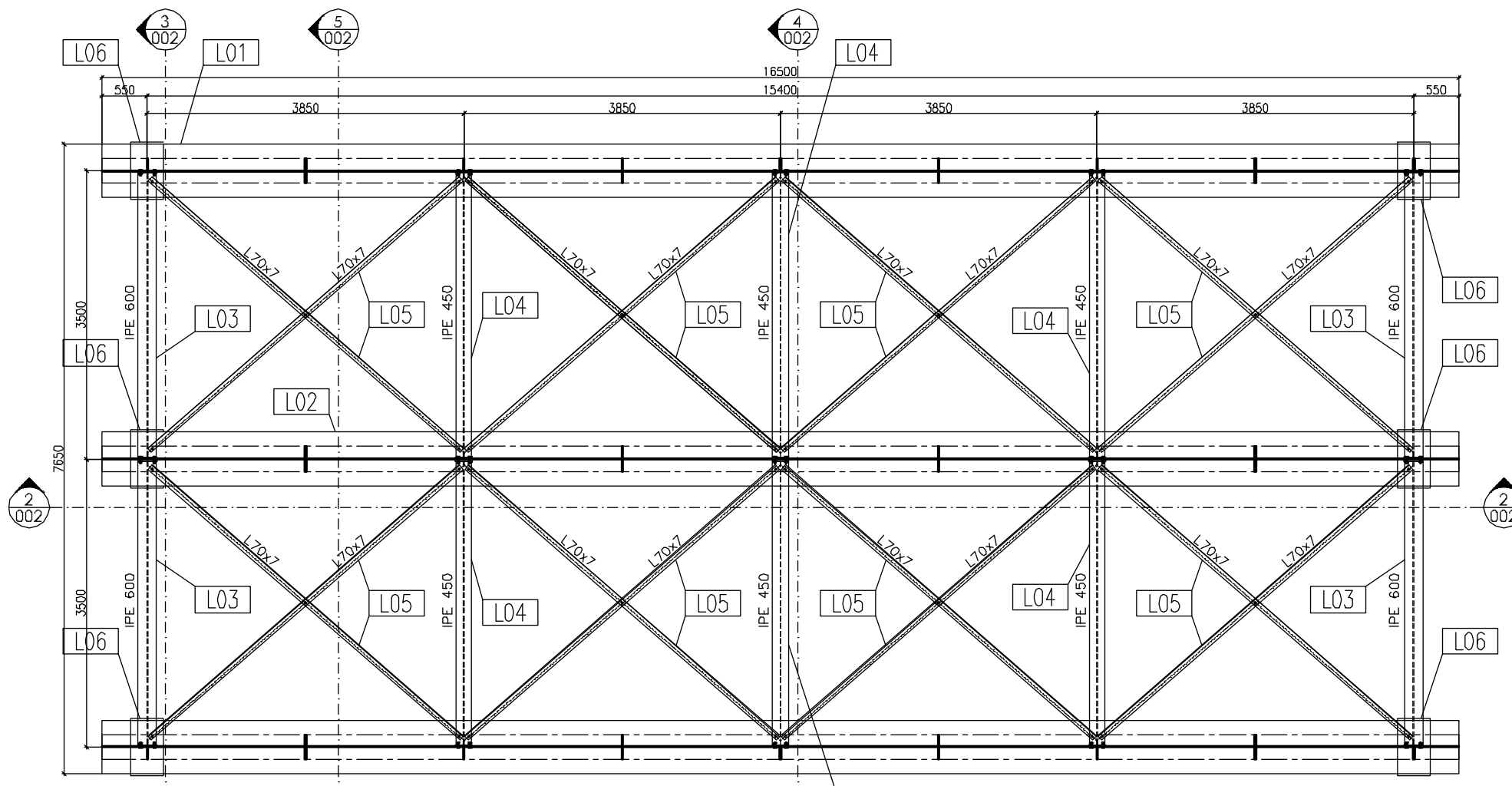
VM 105/50/20
MULTIDIREZIONALE
V = 950 KN
Hx = 0
Hy = 0



9 SCHEMA APPOGGI
Scala 1:100

| MATERIALI | | SIMBOLOGIA COLLEGAMENTI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|----|------|----|------|----|------|----|------|----|-----|----|------|----|------|----|------|----|------|----|-----|----|------|----|------|----|------|----|------|----|-----|----|------|----|------|----|------|----|------|----|-----|----|------|----|------|----|------|----|------|----|
| Calcestruzzo str. II classe fck=300 | | CORDONI DI SALDATURA TIPICI ECCETTO OVE DIVERSAMENTE SPECIFICATI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acciaio in parte Fe 344 e perno | | FORI PER BULLONI STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acciaio per corone ferri metallici | | <table border="1"> <thead> <tr> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> <th>DIAMETRO</th> </tr> </thead> <tbody> <tr> <td>M10</td> <td>11</td> <td>11.5</td> <td>13</td> <td>13.5</td> <td>14</td> <td>14.5</td> <td>15</td> <td>15.5</td> <td>16</td> </tr> <tr> <td>M12</td> <td>13</td> <td>13.5</td> <td>14</td> <td>14.5</td> <td>15</td> <td>15.5</td> <td>16</td> <td>16.5</td> <td>17</td> </tr> <tr> <td>M14</td> <td>15</td> <td>15.5</td> <td>16</td> <td>16.5</td> <td>17</td> <td>17.5</td> <td>18</td> <td>18.5</td> <td>19</td> </tr> <tr> <td>M16</td> <td>17</td> <td>17.5</td> <td>18</td> <td>18.5</td> <td>19</td> <td>19.5</td> <td>20</td> <td>20.5</td> <td>21</td> </tr> <tr> <td>M18</td> <td>19</td> <td>19.5</td> <td>20</td> <td>20.5</td> <td>21</td> <td>21.5</td> <td>22</td> <td>22.5</td> <td>23</td> </tr> </tbody> </table> | | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | M10 | 11 | 11.5 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | M12 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | 16.5 | 17 | M14 | 15 | 15.5 | 16 | 16.5 | 17 | 17.5 | 18 | 18.5 | 19 | M16 | 17 | 17.5 | 18 | 18.5 | 19 | 19.5 | 20 | 20.5 | 21 | M18 | 19 | 19.5 | 20 | 20.5 | 21 | 21.5 | 22 | 22.5 | 23 |
| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M10 | 11 | 11.5 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M12 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | 16.5 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M14 | 15 | 15.5 | 16 | 16.5 | 17 | 17.5 | 18 | 18.5 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M16 | 17 | 17.5 | 18 | 18.5 | 19 | 19.5 | 20 | 20.5 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M18 | 19 | 19.5 | 20 | 20.5 | 21 | 21.5 | 22 | 22.5 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M20 | 21 | 21.5 | 22 | 22.5 | 23 | 23.5 | 24 | 24.5 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M22 | 23 | 23.5 | 24 | 24.5 | 25 | 25.5 | 26 | 26.5 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M24 | 25 | 25.5 | 26 | 26.5 | 27 | 27.5 | 28 | 28.5 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M27 | 28 | 28.5 | 29 | 29.5 | 30 | 30.5 | 31 | 31.5 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M30 | 31 | 31.5 | 32 | 32.5 | 33 | 33.5 | 34 | 34.5 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | DIAMETRO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M32 | 33 | 33.5 | 34 | 34.5 | 35 | 35.5 | 36 | 36.5 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M36 | 37 | 37.5 | 38 | 38.5 | 39 | 39.5 | 40 | 40.5 | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M40 | 41 | 41.5 | 42 | 42.5 | 43 | 43.5 | 44 | 44.5 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M45 | 46 | 46.5 | 47 | 47.5 | 48 | 48.5 | 49 | 49.5 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M50 | 51 | 51.5 | 52 | 52.5 | 53 | 53.5 | 54 | 54.5 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: il coefficiente di snella è pari a 2,5 cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
|-------------|----------|---|------------|---------------------------------------|
| 0 | 12/05/09 | EMISSIONE | U.T.E. | |
| | | LENCONI | | 926 |
| | | COSTRUZIONI METALLICHE s.p.a. | | Tavola 926-001-ASS-001 |
| Committente | | Impresa Mario Belardi spa | | Data Date 12/05/09 |
| Purchaser | | Via dei Fossi 10 | | Scale Scale VARIE |
| | | 53027 S. Quirico D'Orcia (SI) | | Disegnato da TECNIPRO |
| Descrizione | | Ponte sul fiume Tressa | | Responsabile commessa Ing. Bernardini |
| Ubicazione | | Sp 24 "di Radi" Km 0+700 | | Approvato approved by |
| Titolo | | Assieme ponte in struttura mista acciaio-calcestruzzo | | |



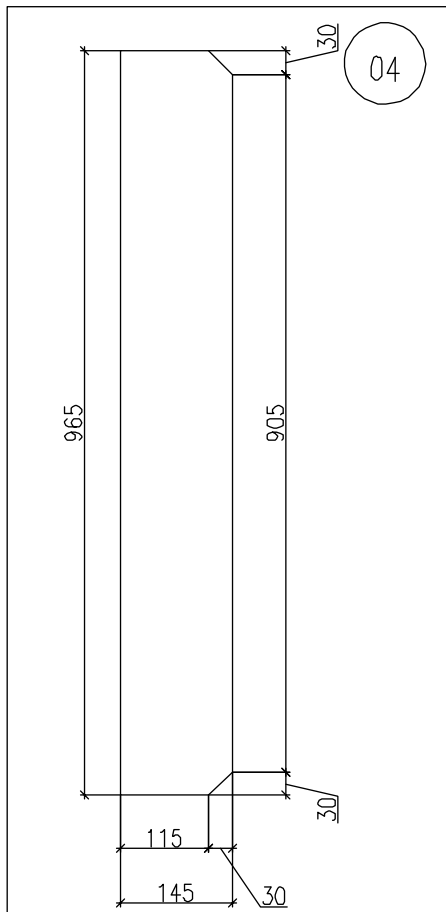
SIMBOLOGIA COLLEGAMENTI

CORDONI DI SALDATURA TIPICI
(ECCETTO OVE DIVERSAMENTE SPECIFICATO)

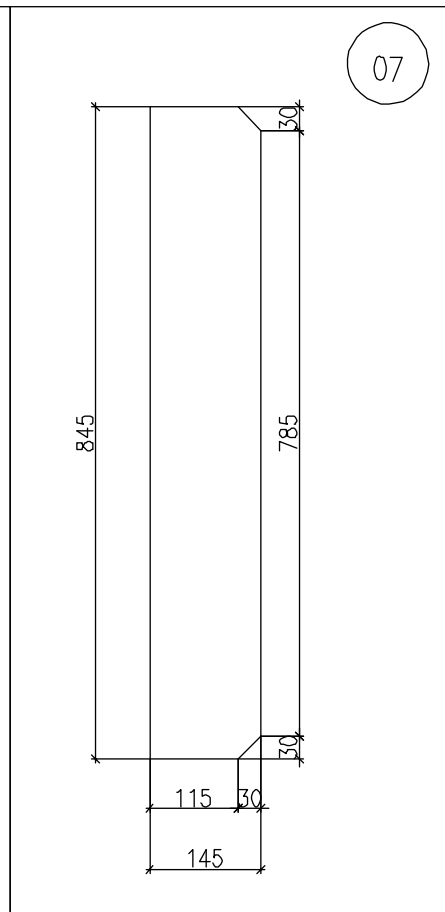
FORI PER BULLONI STANDARD

| SIMBOL | DIAM. BULL. | DIAM. VERO FORO | COEFF. DI SEPARAZIONE | SIMBOL | DIAM. BULL. | DIAM. VERO FORO | COEFF. DI SEPARAZIONE |
|--------|-------------|-----------------|-----------------------|--------|-------------|-----------------|-----------------------|
| * | V 10 | ∅ 11 | 11.5 | + | V 20 | ∅ 21 | ∅ 21.5 |
| + | V 12 | ∅ 13 | 13.5 | + | V 22 | ∅ 23 | ∅ 24 |
| α | V 14 | ∅ 15 | 15.5 | + | V 24 | ∅ 25 | ∅ 26 |
| + | V 16 | ∅ 17 | 17.5 | + | V 27 | ∅ 28 | ∅ 29 |
| + | V 18 | ∅ 19 | 19.5 | + | V 30 | ∅ 31 | ∅ 32 |

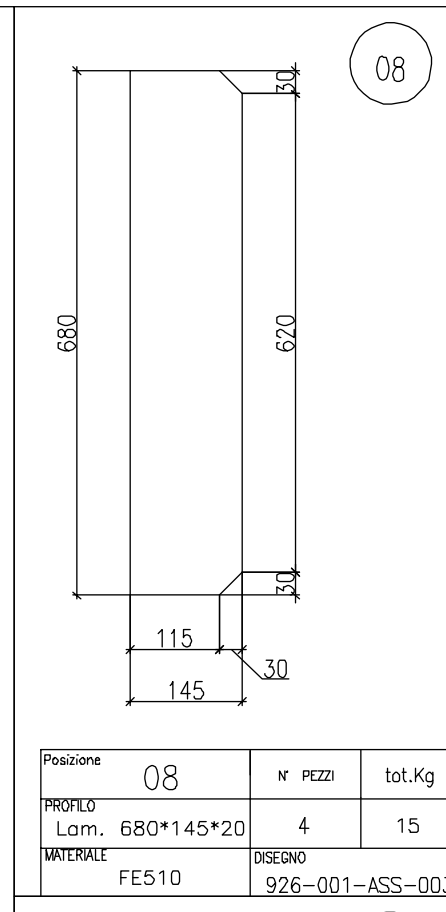
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|---------------------|--------------|---|-----------------------|
| 0 | 26/05/09 | EMISSIONE | U.T.E. |
| REVISION | DATE | DESCRIPTION | CHECKED BY |
| | | LENZIONI | APPROVED BY |
| | | COSTRUZIONI METALLICHE s.r.l. | 926 |
| | | via delle Grotte 1709/1711 - 55100 MACCARICHI (LI) ITALY | Tavola |
| | | Tel. ++39 0683 59027 r.a. Fax ++39 0683 327081 http://www.lenzioni.it | 926-001-ASS-002 |
| Committente | Purchaser | Impresa Mario Belardi spa | Data |
| | | Via dei Fossi 10 | 26/05/09 |
| | | 53027 S. Quirico D'Orcia (SI) | Scala |
| | | | VARIE |
| Descrizione | Description | Ponte sul fiume Tressa | Disegnata da |
| | | | Drawn by |
| Ubicazione Impianto | Job location | Sp 24 "di Radi" Km 0+700 | Responsabile commessa |
| | | | Job manager |
| | | | Ing. Bernardini |
| | | | Approvato |
| | | | approved by |



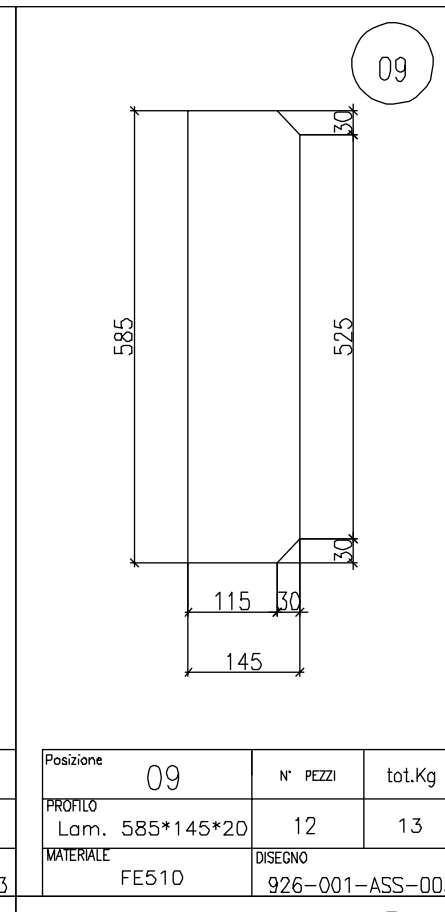
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| Posizione | 04 | N° PEZZI | 4 | tot.Kg | 22 |
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| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



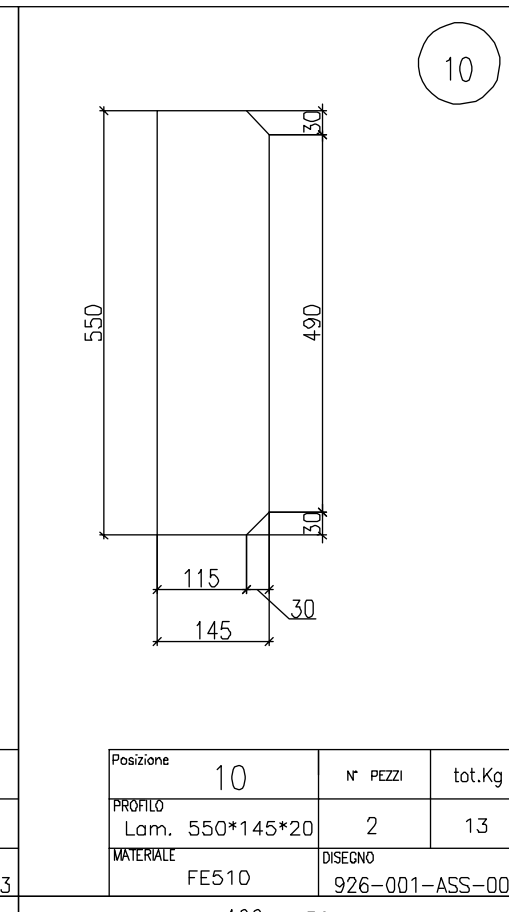
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| Posizione | 07 | N° PEZZI | 12 | tot.Kg | 19 |
| PROFILO | Lam. 845*145*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



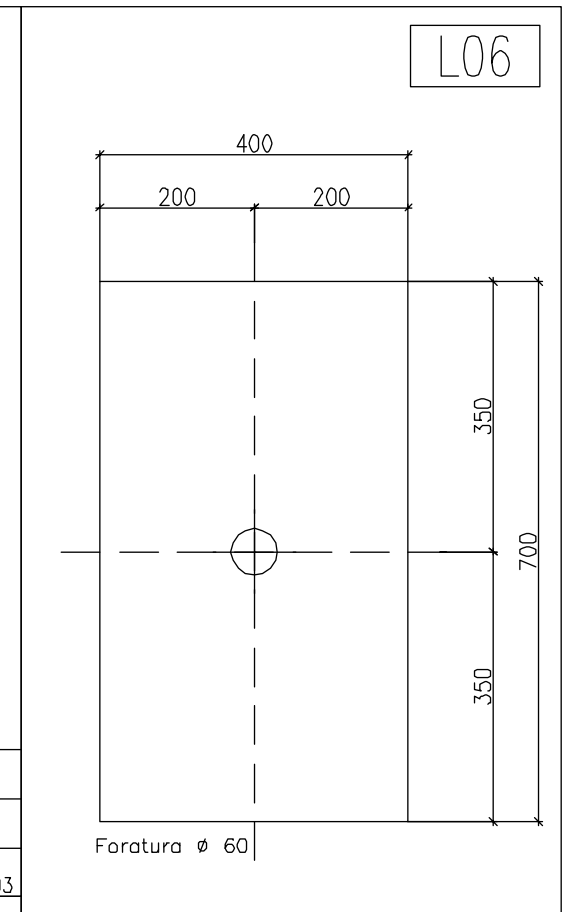
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|-----------|-----------------|----------|-----------------|--------|----|
| Posizione | 08 | N° PEZZI | 4 | tot.Kg | 15 |
| PROFILO | Lam. 680*145*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



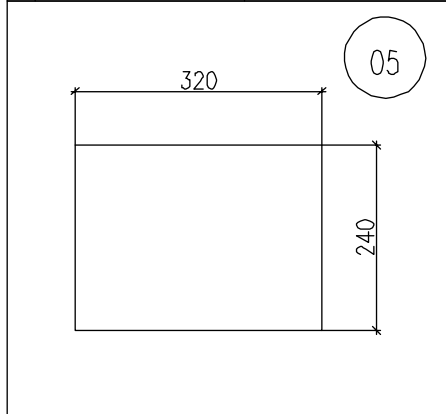
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|-----------|-----------------|----------|-----------------|--------|----|
| Posizione | 09 | N° PEZZI | 12 | tot.Kg | 13 |
| PROFILO | Lam. 585*145*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



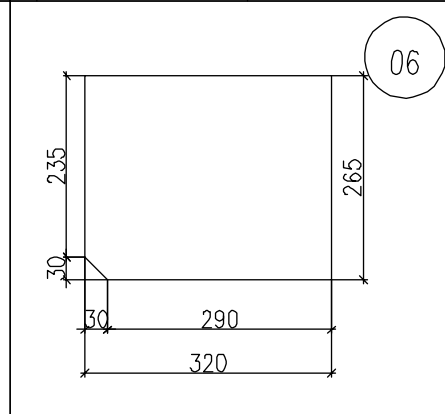
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| Posizione | 10 | N° PEZZI | 2 | tot.Kg | 13 |
| PROFILO | Lam. 550*145*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



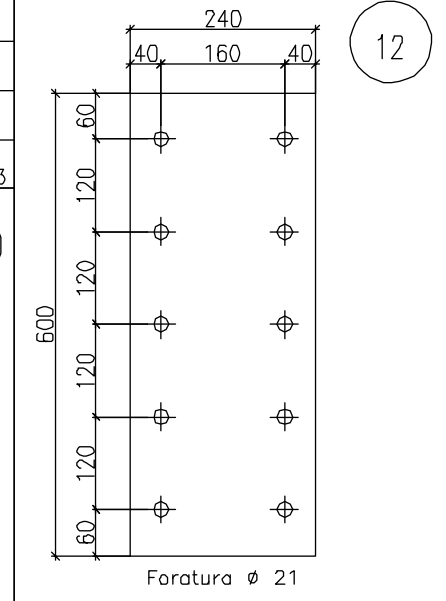
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| Posizione | L06 | N° PEZZI | 6 | tot.Kg | 44 |
| PROFILO | Lam. 700*400*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-002 | | |



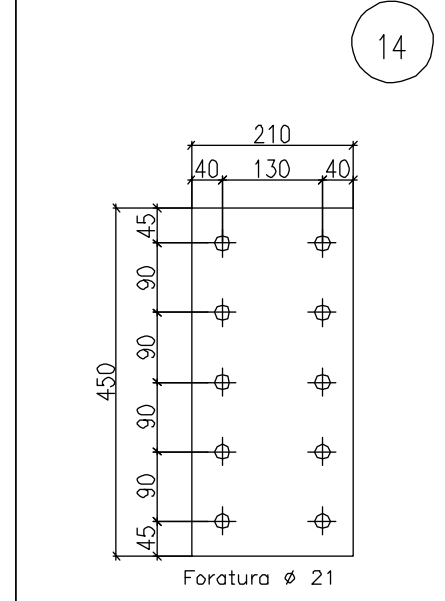
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| Posizione | 05 | N° PEZZI | 8 | tot.Kg | 12 |
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| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



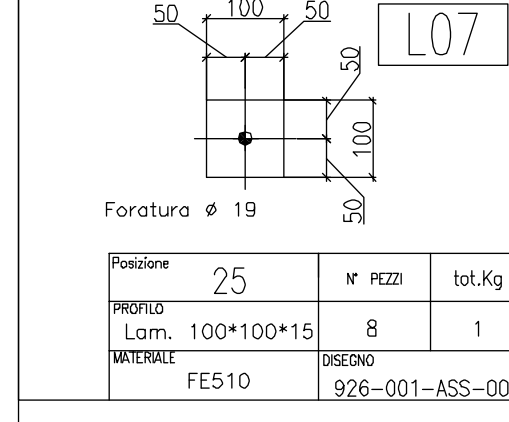
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| PROFILO | Lam. 320*265*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



| | | | | | |
|-----------|-----------------|----------|-----------------|--------|----|
| Posizione | 12 | N° PEZZI | 8 | tot.Kg | 23 |
| PROFILO | Lam. 600*240*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |

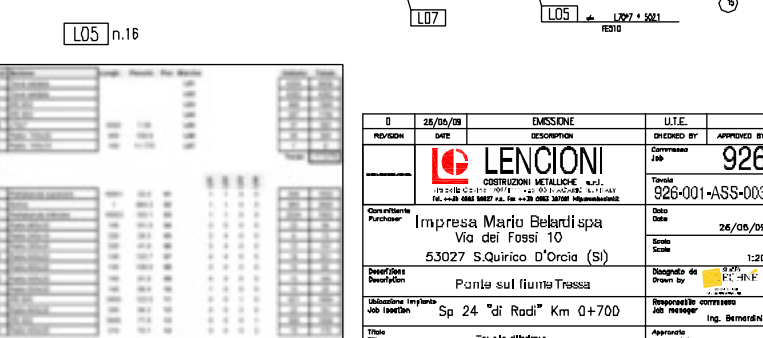
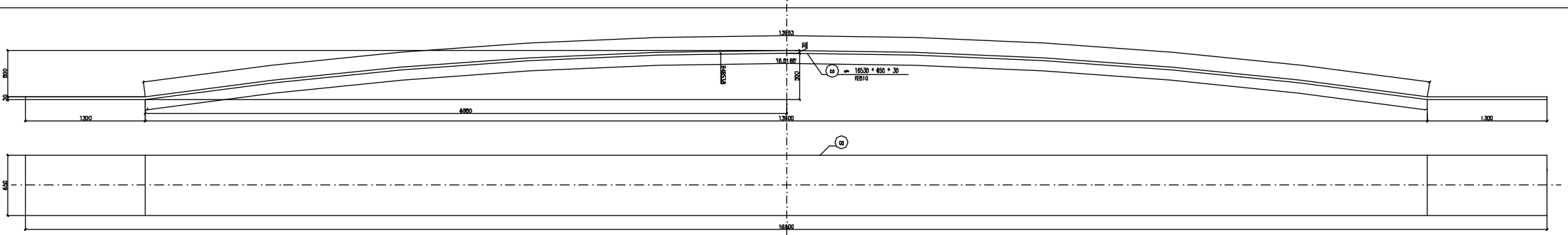
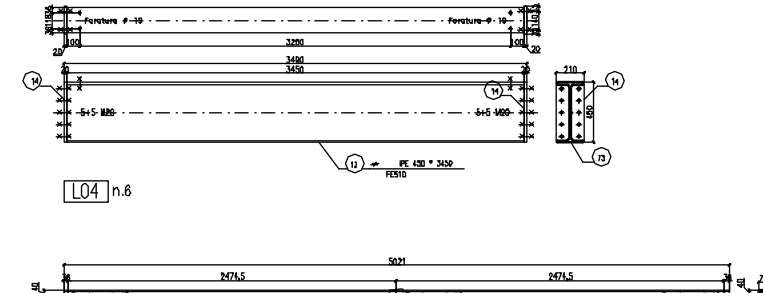
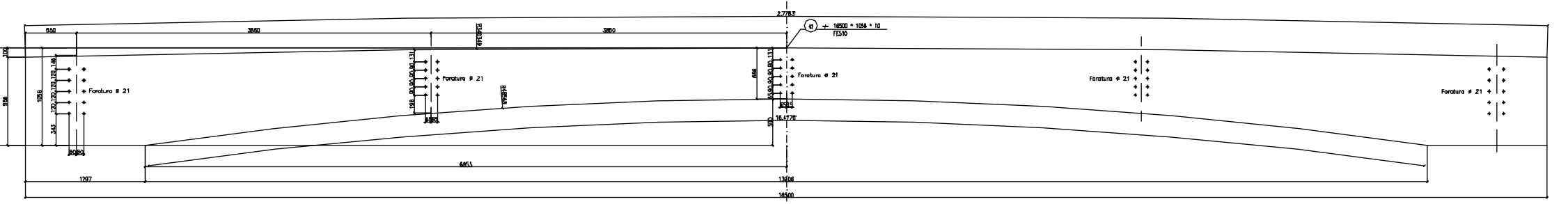
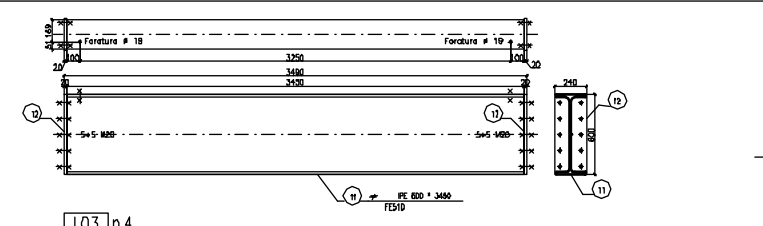
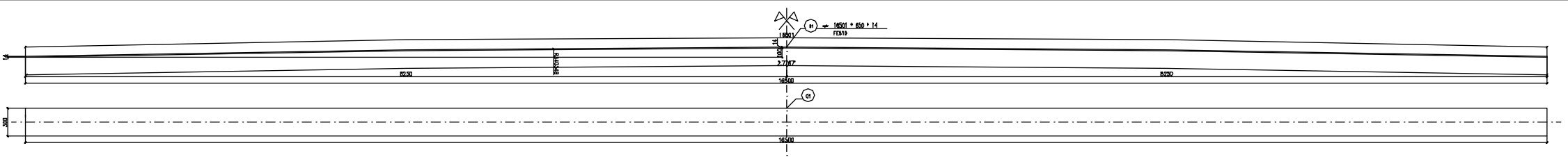
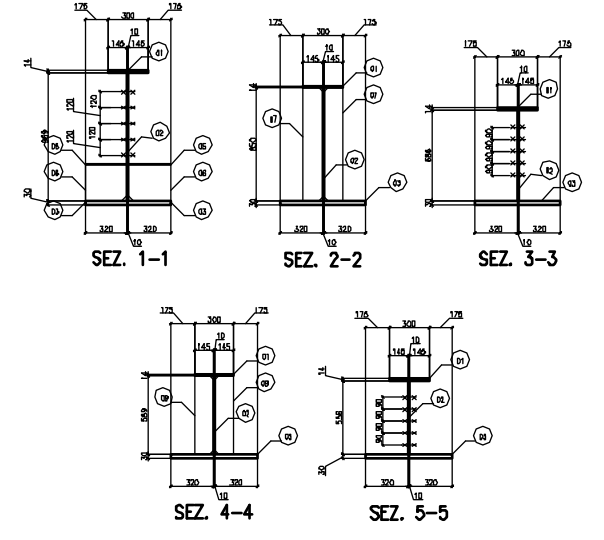
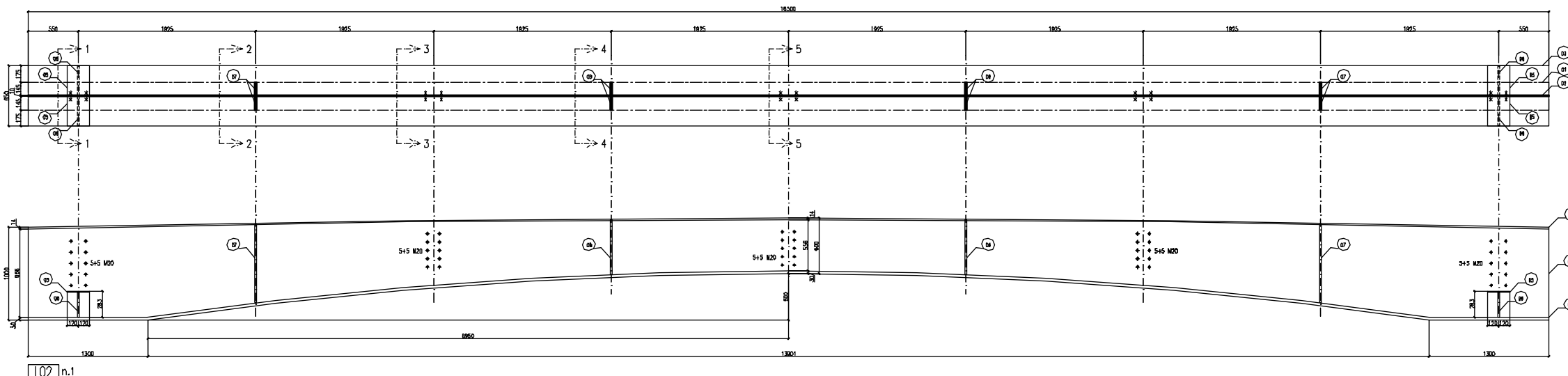
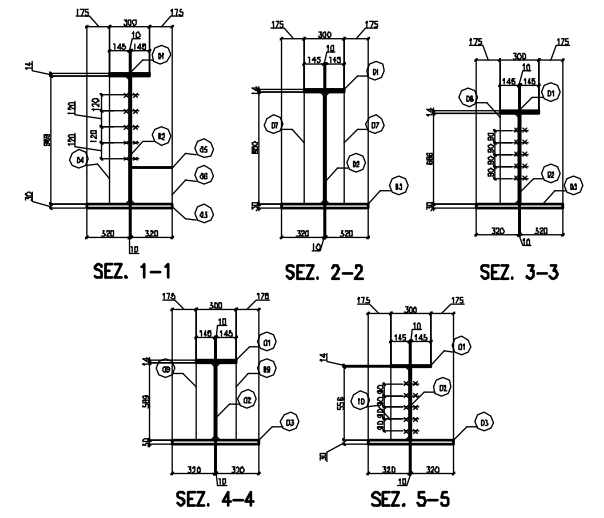
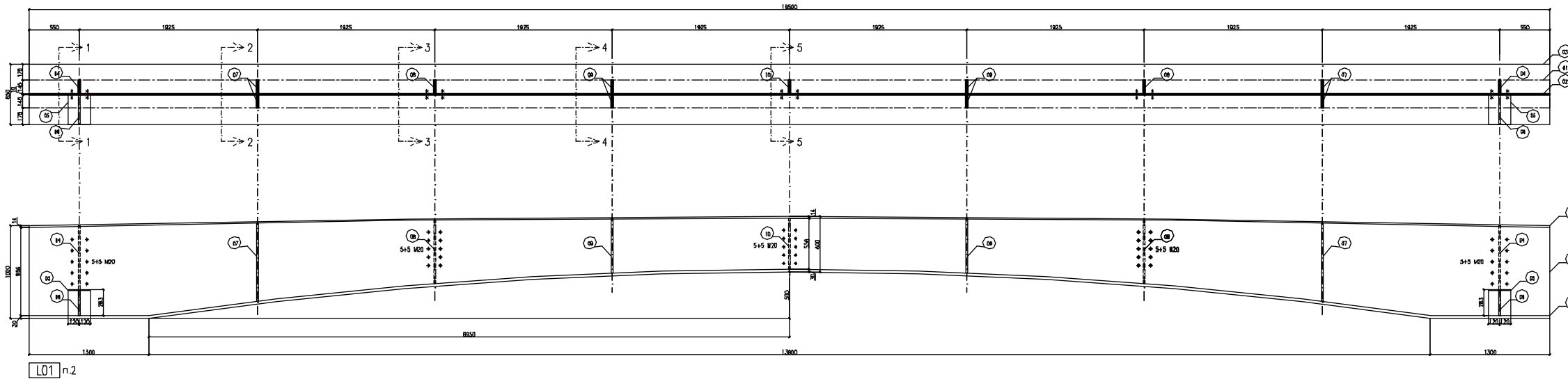


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|-----------|-----------------|----------|-----------------|--------|----|
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| PROFILO | Lam. 450*210*20 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-003 | | |



| | | | | | |
|-----------|-----------------|----------|-----------------|--------|---|
| Posizione | L07 | N° PEZZI | 8 | tot.Kg | 1 |
| PROFILO | Lam. 100*100*15 | | | | |
| MATERIALE | FE510 | DISEGNO | 926-001-ASS-002 | | |

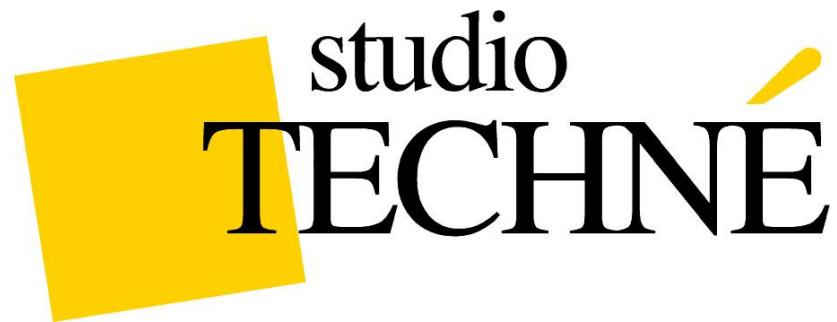
| | | | | |
|----------------------------------|---|--|-----------------------------------|---|
| 0 | 26/05/09 | EMISSIONE | U.T.E. | |
| REVISION | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | |  | Commessa Job | 926 |
| | | COSTRUZIONI METALLICHE s.r.l. via delle Gavine 1709/1711 - 53100 .MACARIO (LU) ITALY Tel. ++39 0583 59027 r.a. Fax ++39 0583 327081 http:www.lencioni.it | Tavola | 926-001-ASS-004 |
| Committente Purchaser | Impresa Mario Belardi spa Via dei Fossi 10 53027 S.Quirico D'Orcia (SI) | | Data Date | 26/05/09 |
| | | | Scala Scale | 1:10 |
| Descrizione Description | Ponte sul fiume Tressa | | Disegnato da Drawn by |  |
| Ubicazione Impianto Job location | Sp 24 "di Radi" Km 0+700 | | Responsabile commessa Job manager | Ing. Bernardini |
| Titolo Title | Plastrame | | Approvato approved by | |



| REVISIONI | DATE | DESCRIZIONE | DESIGNER | APPROVED BY |
|-----------|----------|-------------|----------|-------------|
| 0 | 25/05/18 | MESSINE | | |
| 1 | | | | 926 |

| | | |
|--|--|---|
| LENCONI COSTRUZIONI METALLICHE s.p.a. Via dei Fossi 10 53027 S. Quirico d'Orcia (SI) | | Disegnato da Drawn by Ing. Bernasconi |
| Cliente Impresa Mario Bernardi spa | | Data 26/05/2018 |
| Descrizione Pannello sul fusto Trassa | | Scala 1:20 |
| Ubicazione impianto Sp 24 "di Radi" Km 0+700 | | Approvato e Ing. Bernasconi |



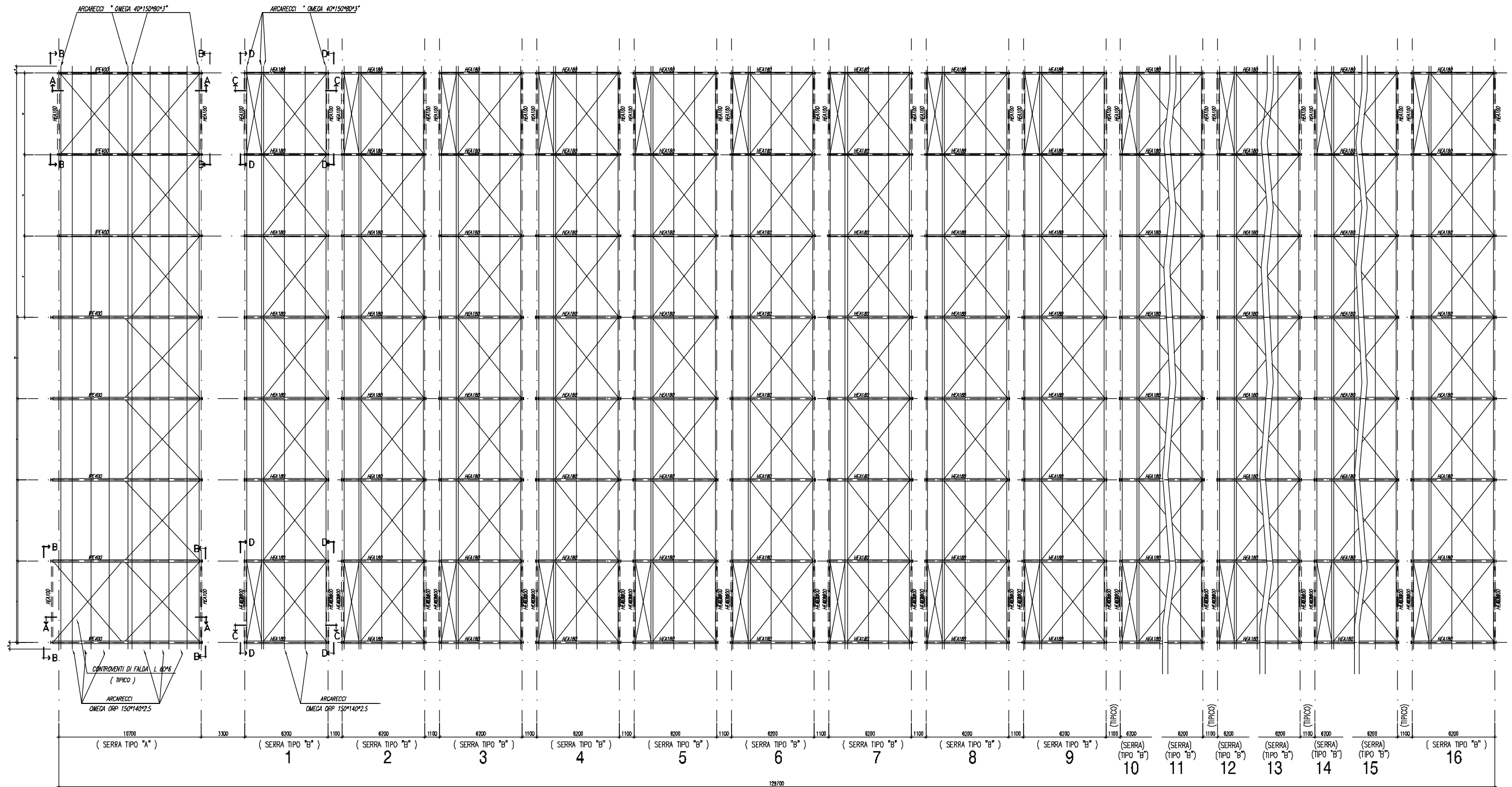


STEEL STRUCTURE FOR GREENHOUSES

DESCRIPTION: GREENHOUSE STRUCTURES IN BELLARIA IGEA MARINA – RIMINI.

CLIENT: LENCIONI COSTRUZIONI METALLICHE S.R.L.

STATUS: BUILT



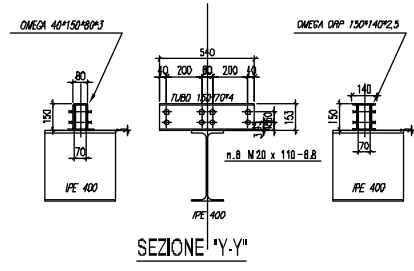
PIANTA DELLA COPERTURA

NOTE

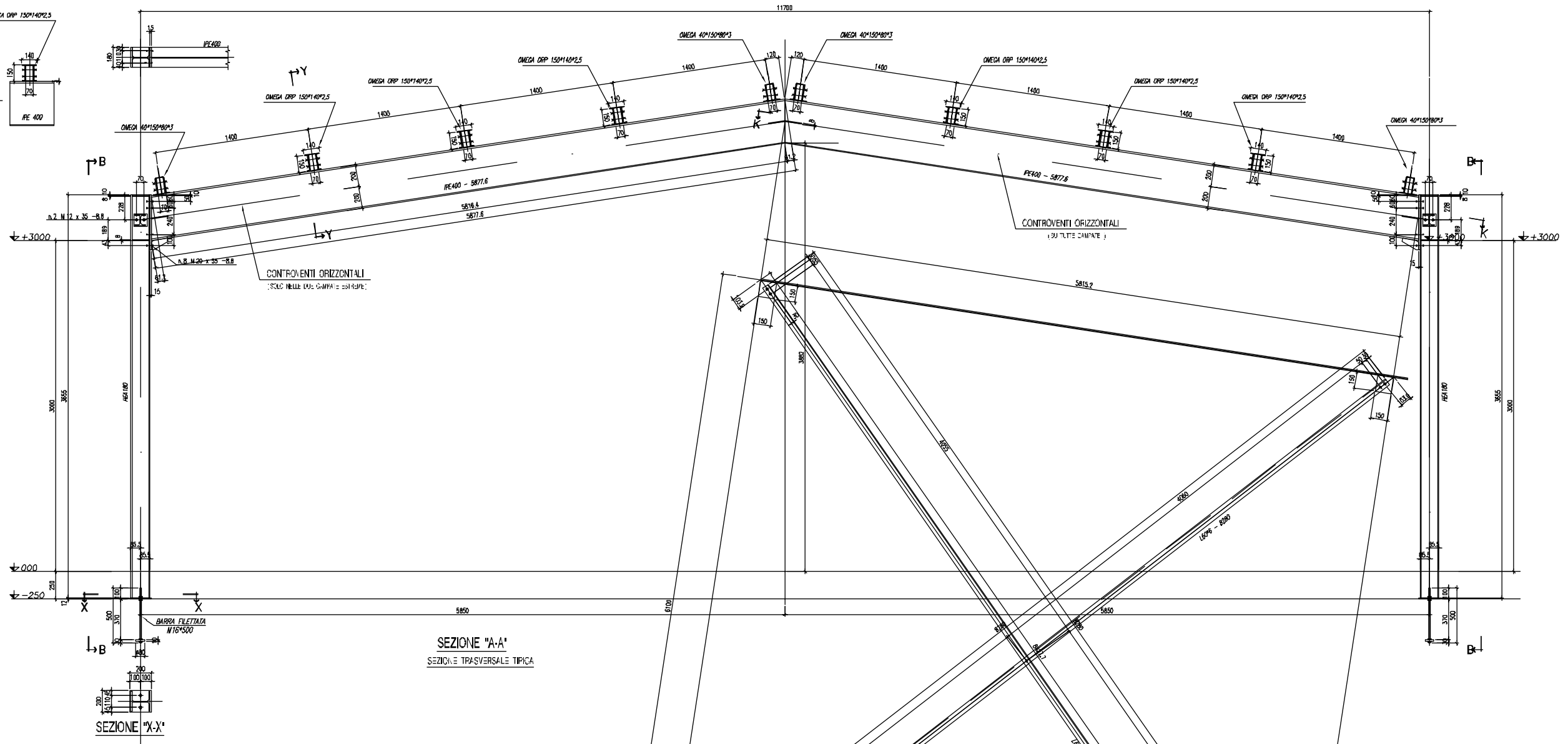
- SALVO DIVERSA INDICAZIONE LE MISURE SONO ESPRESSE IN mm
- PER SEZIONE "A-A" VEDERE DIS. N° 957-002-PRO-002
- PER SEZIONE "B-B" VEDERE DIS. N° 957-002-PRO-002
- PER SEZIONE "C-C" VEDERE DIS. N° 957-003-PRO-003
- PER SEZIONE "D-D" VEDERE DIS. N° 957-003-PRO-003

| REVISIONI | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
|-----------|------------|-------------|------------|-------------|
| 1 | 01/06/2010 | revisione | | |
| 0 | 24/05/2010 | EMISSIONE | S. SANI | 957 |

| | | |
|---|--|--|
| LENCONI COSTRUZIONI METALLICHE s.r.l. <small>Via Salaria 100 - 00198 Roma - Tel. +39 06 47814111 - Fax +39 06 47814112</small> | | Data Date 24/06/2010 |
| Committente Purchaser ITALTETTI SRL VIA SANTAR CANGIOLESE 4081 47814 Poggibonni (RN) | | Scala Scale 1:100 |
| Descrizione Description SERRE A STRUTTURA METALLICA | | Disegnato da Drawn by S. SANI |
| Utilizzazione Impianto Job location Bellaria Igea Marina (RN) | | Responsabile commessa Job manager GASPARETTI |
| Titolo Title PLANIMETRIA GENERALE COPERTURA | | Approvato approved by |

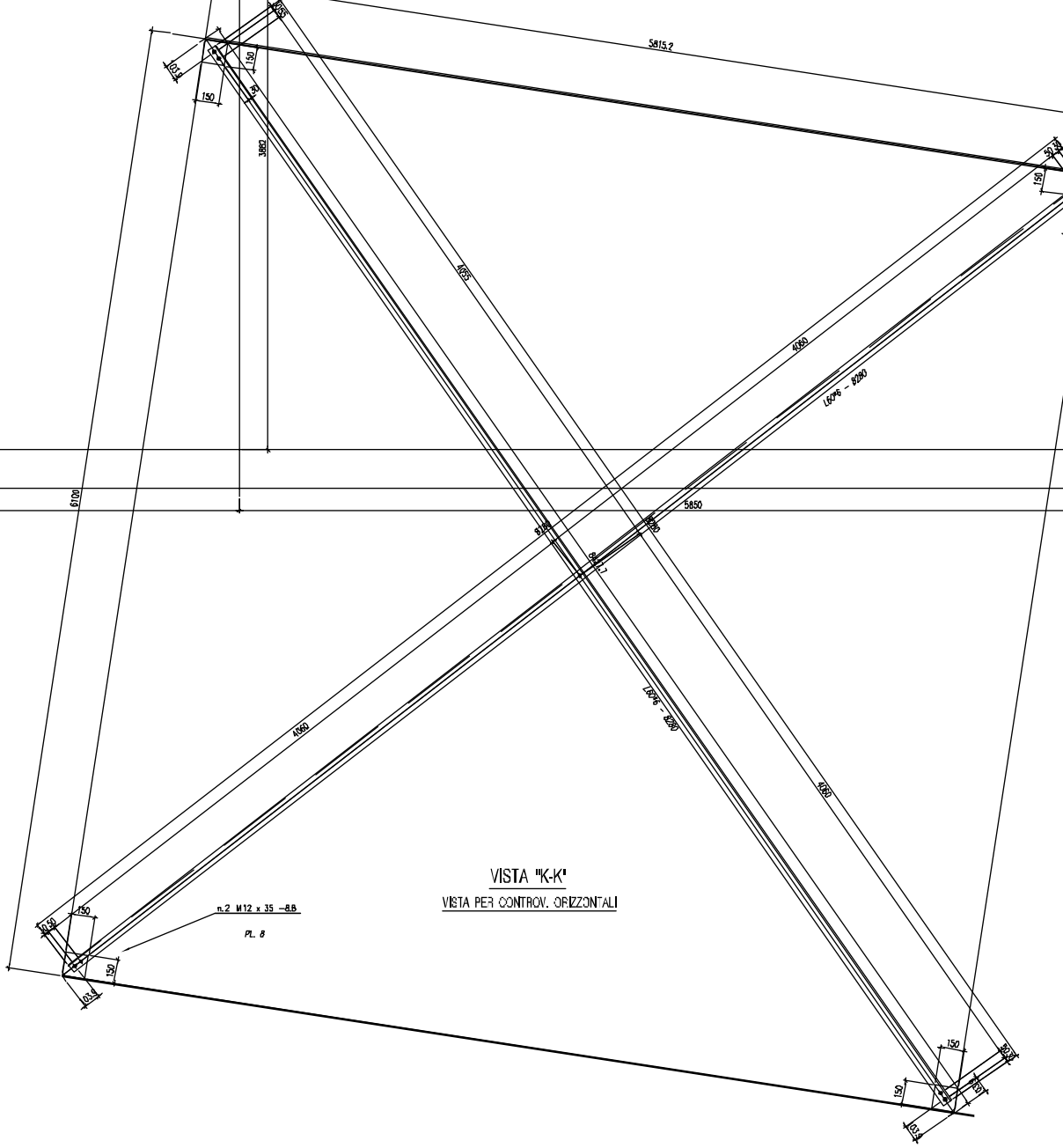


SEZIONE "Y-Y"

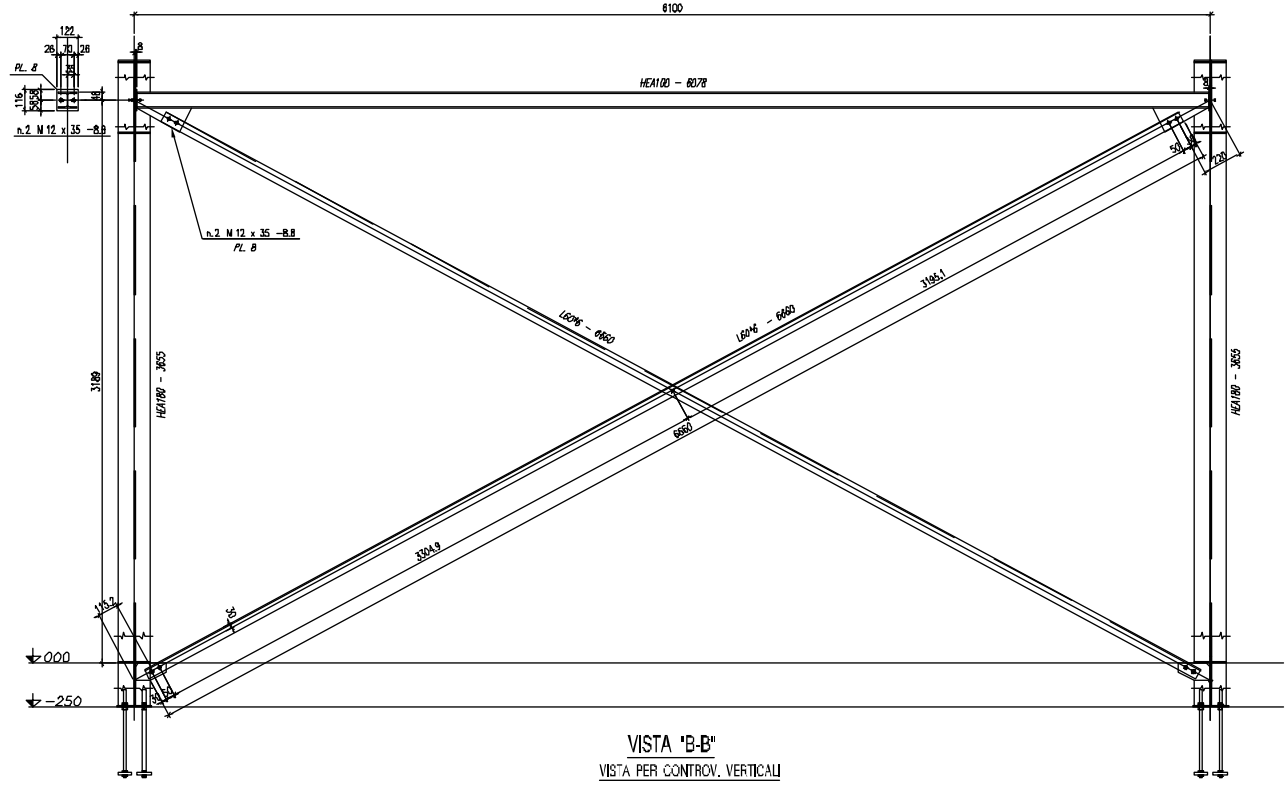


SEZIONE "A-A"
SEZIONE TRASVERSALE TIPICA

SEZIONE "X-X"



VISTA "K-K"
VISTA PER CONTROR. ORIZZONTALI



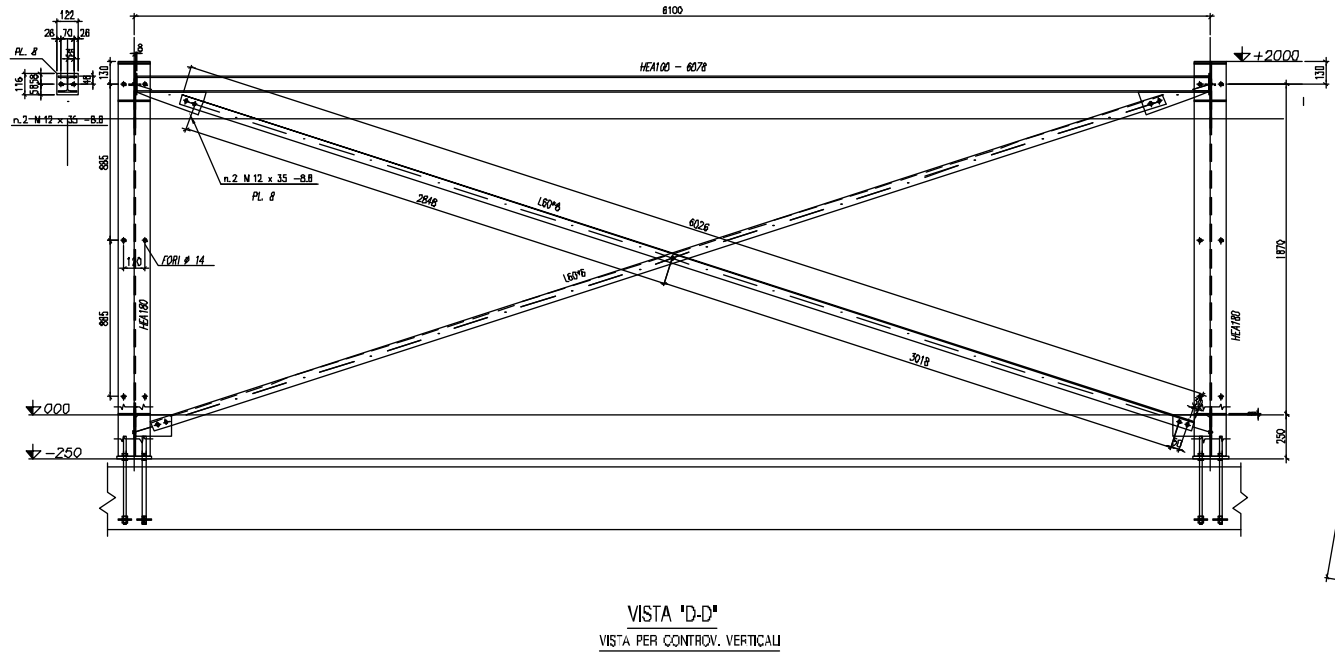
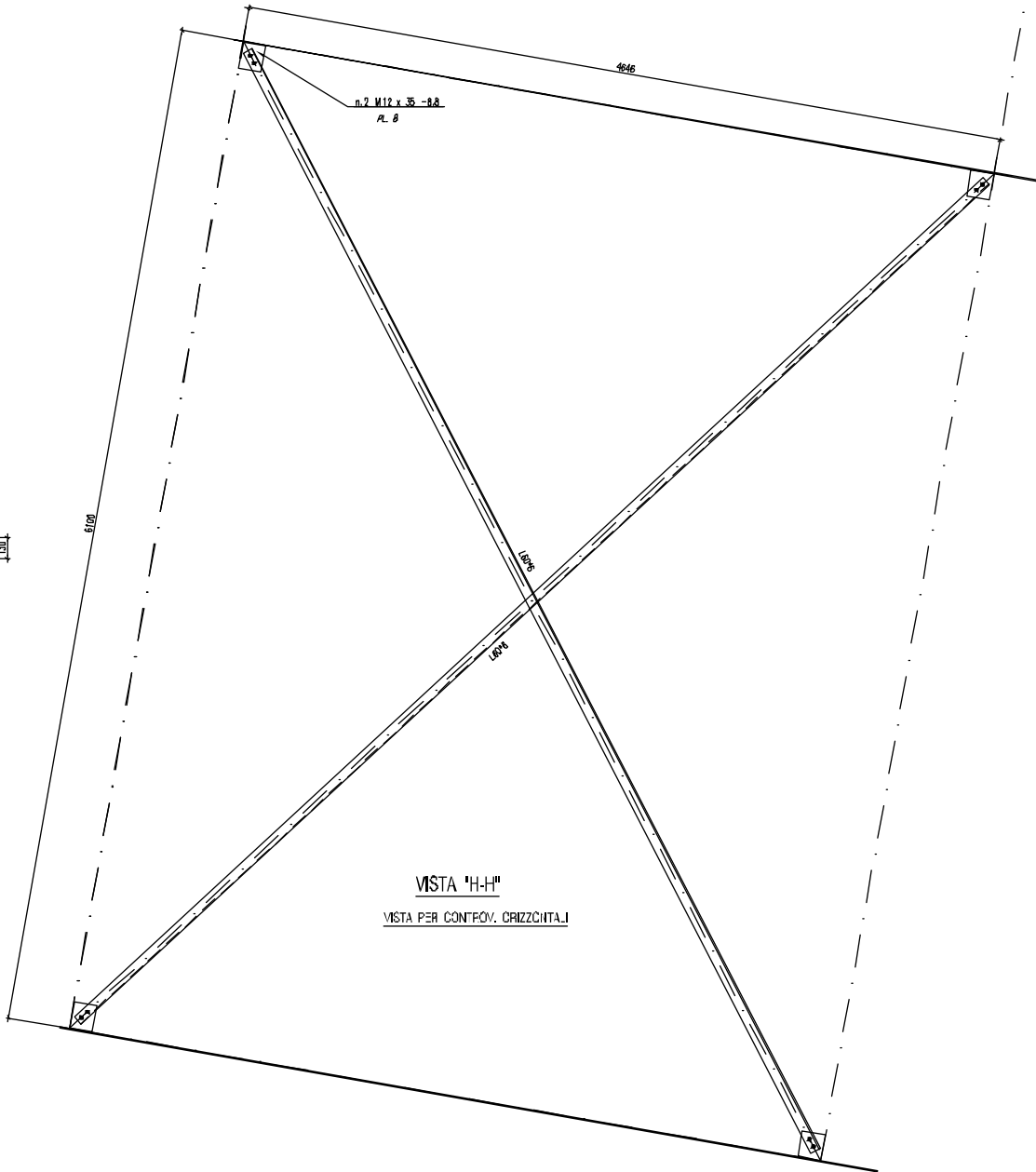
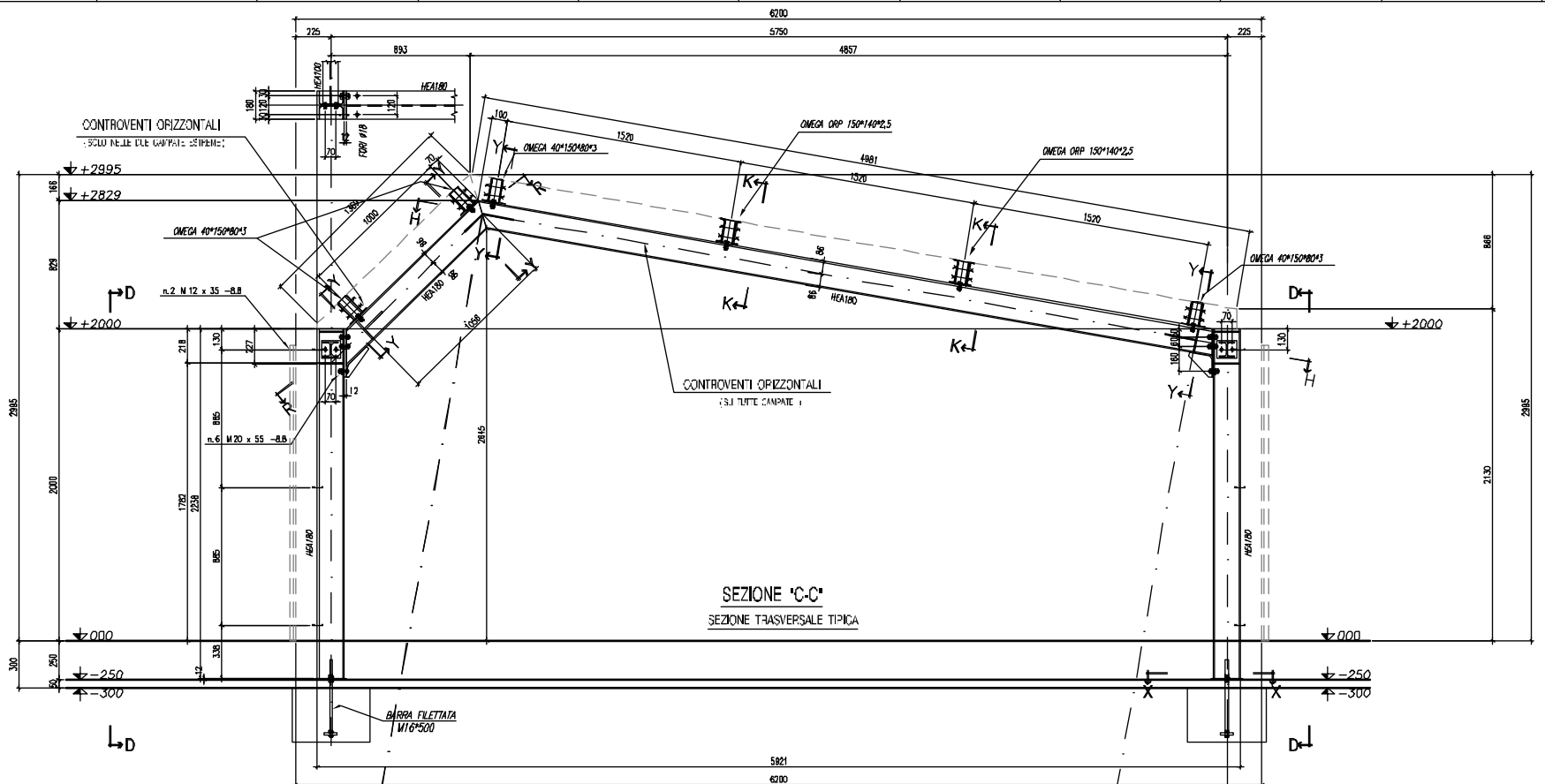
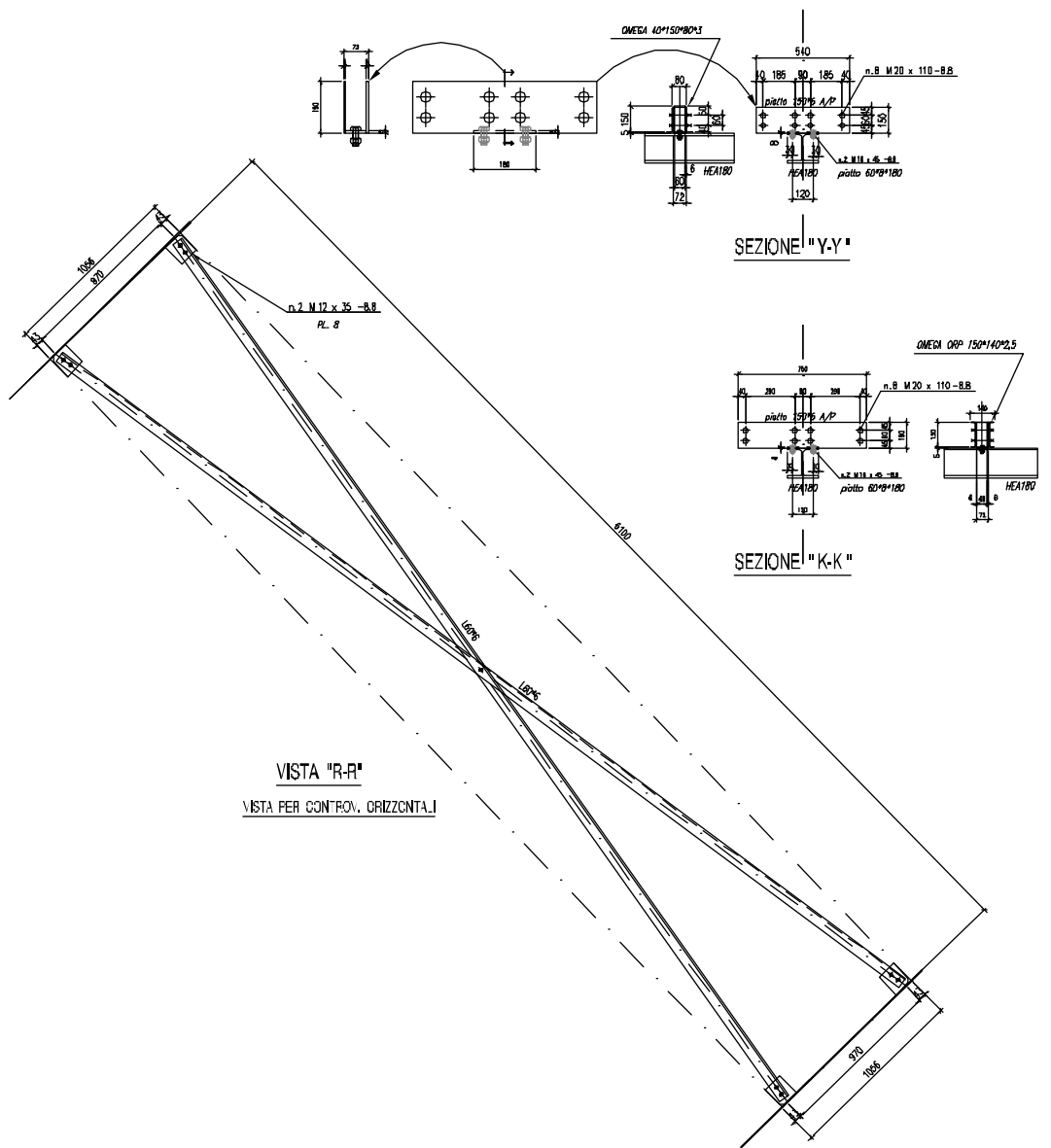
VISTA "B-B"
VISTA PER CONTROR. VERTICALI

NOTE

- SALVO DIVERSA INDICAZIONE LE MISURE SONO ESPRESSE IN mm
- SALDATURE D'ANGOLO SECONDO SPECIFICA LENCIONI N° 07
- SALDATURE A PIENA PENETRAZIONE SECONDO SPECIFICA LENCIONI N° 01
- A = ANTERIORE
- P = POSTERIORE
- I = INTERMEDIO

- ZINCATURA A CALDO SECONDO UNI EN 1461
- PROFILI E LAMIERA IN QUALITA' S275 JR
- BARRE FILETATE CLASSE 4.6
- BULLONI CLASSE 8.8

| | | | | |
|--|---|---|--------------------------------------|------------------------------------|
| 0 | 24/05/2010 | EMISSIONE | S. SANI | |
| REVISIONI | DATE | DESCRIPTION | CHECKED BY | APPROVED BY |
| | | | Commissa Job | 957 |
| | | LENCIONI COSTRUZIONI METALLICHE s.r.l. <small>Via... 34... 0523 6927 fax... 0523 67061</small> | | Titolo Sheet 957-002-PRO-002 |
| Committente Purchaser | ITALTETTI srl VIA santarcangelo,4081 47814 Poggio Borni (RN) | | Data Date | 24/05/2010 |
| Descrizione Description | SERRE A STRUTTURA METALLICA | | Disegnato da Drawn by | S.SANI |
| Utilizzazione Impianto Job location | Bellaria Igea Marina (RN) | | Responsabile commessa Job manager | M.GASPERETTI |
| Titolo Title | SEZIONE SERRA TIPO "A" | | Approvato approved by | |



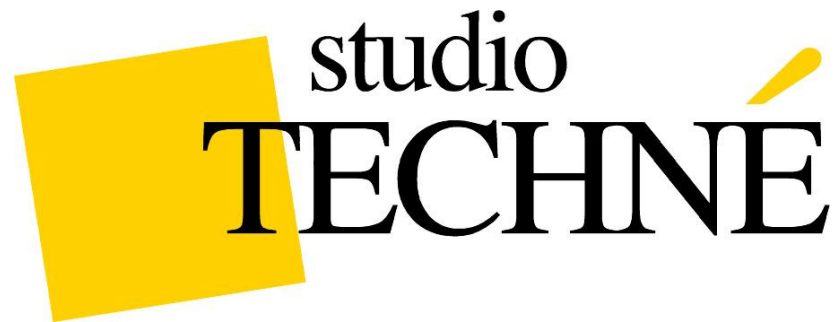
NOTE

- SALVO DIVERSA INDICAZIONE LE MISURE SONO ESPRESSE IN mm
- SALDATURE D'ANGOLO SECONDO SPECIFICA LENCIONI N° 07
- SALDATURE A PIENA PENETRAZIONE SECONDO SPECIFICA LENCIONI N° 01
- A = ANTERIORE
- P = POSTERIORE
- I = INTERMEDIO
- ZINCATURA A CALDO SECONDO UNI EN 1461
- PROFILI E LAMIERA IN QUALITA' S275 JR
- PROFILI ARCARECCI IN QUALITA' S275 JR
- BARRE FILETTATE CLASSE 4.6
- BULLONI CLASSE 8.8

| REVISIONI | DATE | DESCRIZIONE | CHECKED BY | APPROVED BY |
|-----------|------------|---|------------|-------------|
| 5 | 27/08/2010 | INTEGRAZ. SERVIZIO TECNICO DI BACINO ROMANO | | |
| 4 | 11/06/2010 | revisione interasse trasversale | gas | |
| 3 | 10/06/2010 | AGGIORNATO | S. SANI | |
| 2 | 08/06/2010 | revisione | | |
| 1 | 01/06/2010 | revisione | | |
| 0 | 24/05/2010 | EMISSIONE | S. SANI | |

| | | |
|---|-------------------------------------|--|
| LENCIONI COSTRUZIONI METALLICHE s.r.l. <small>Via Salaria 1000, 00198 Roma, Tel. +39 06 57961111, Fax +39 06 57961112, www.lencioni.it</small> | | Commessa 957 Titolo 957-003-PRO-003 |
| Committente ITALTETTI srl VIA santarcangelo, 4081 47814 Poggio Borni (RN) | Data 24/06/2010 Scala 1:15 | Disegnato da S.SANI Responsabile commessa job manager M.GASPERETTI Approvato approved by |
| Descrizione SERRE A STRUTTURA METALLICA | | Utilizzatore Impianto job location Bellaria Igea Marina (RN) |
| Titolo SEZIONE SERRA TIPO "B" | | |



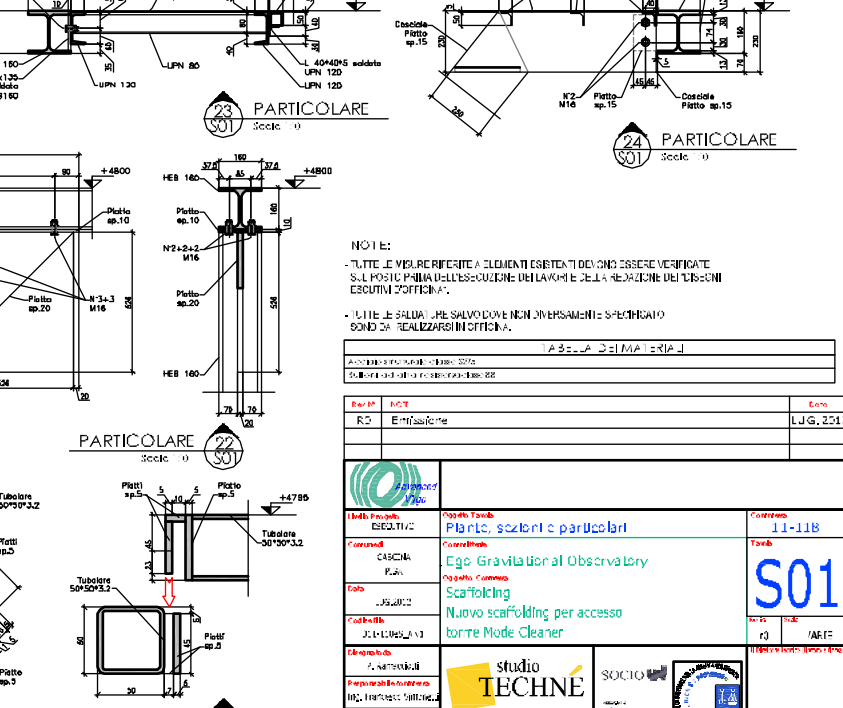
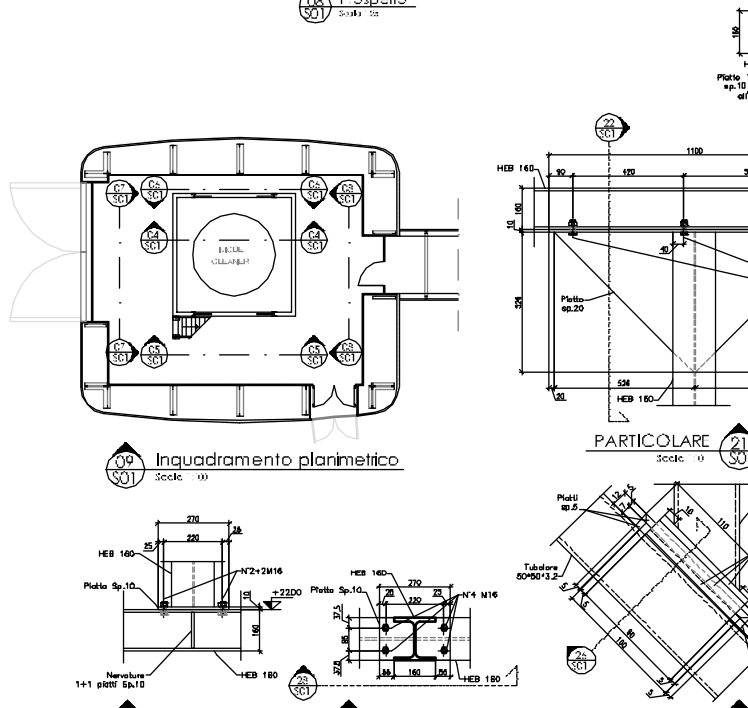
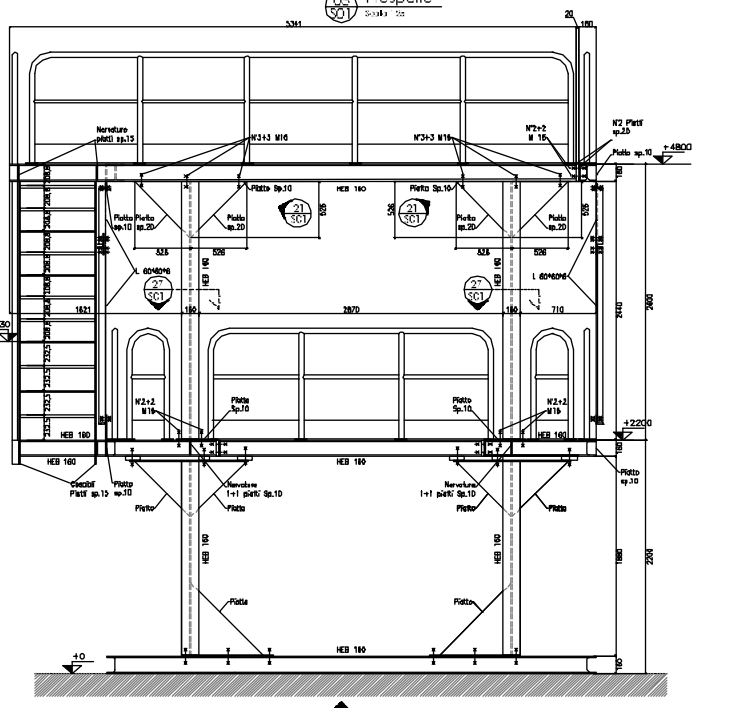
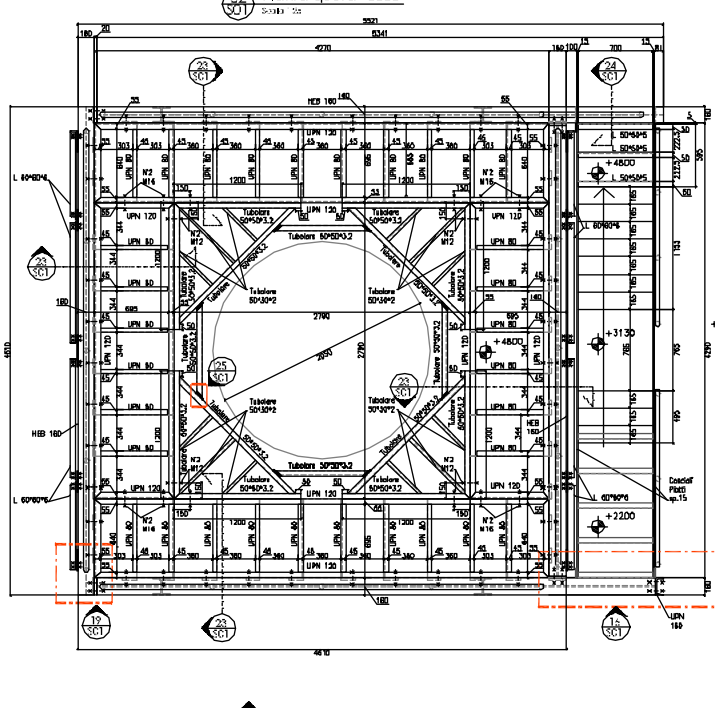
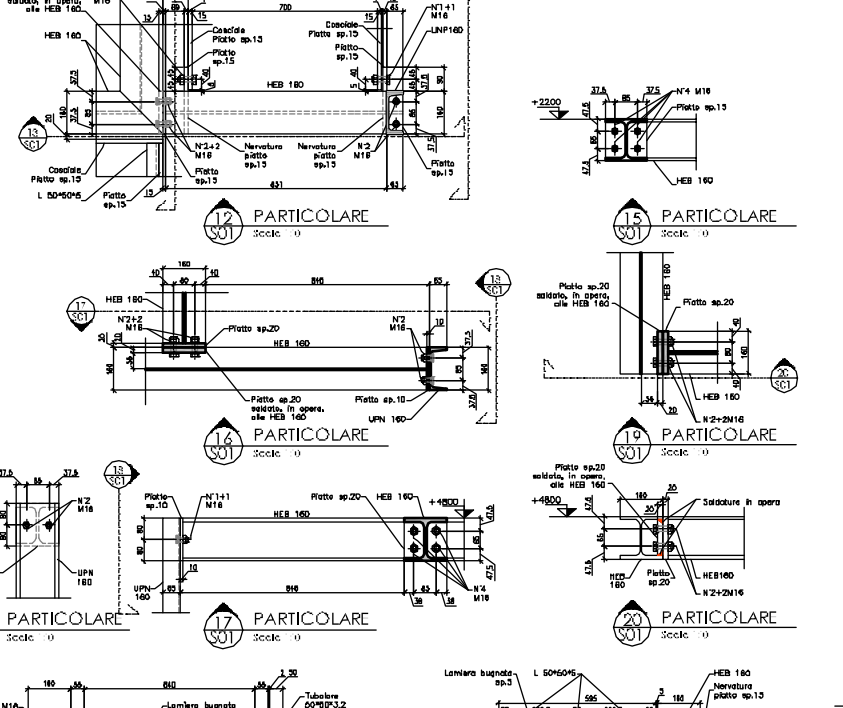
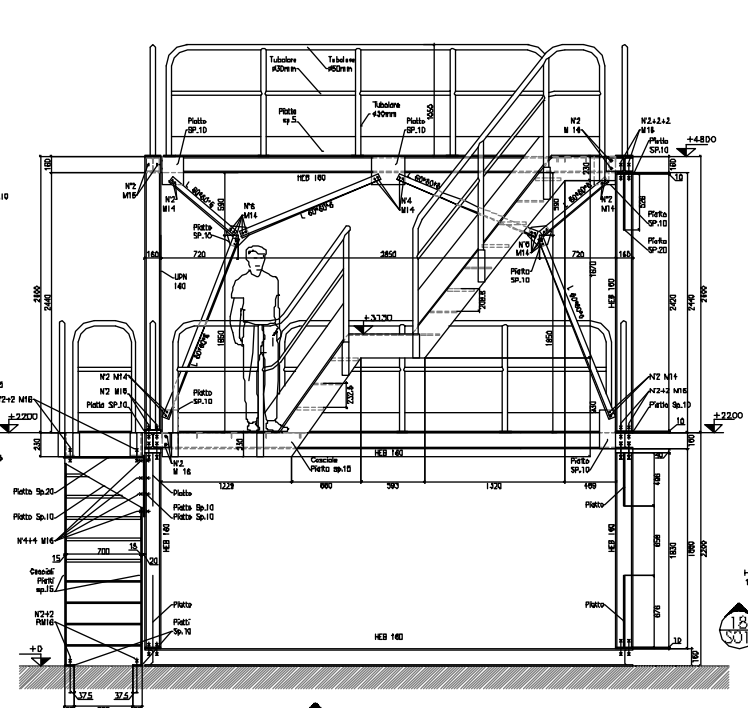
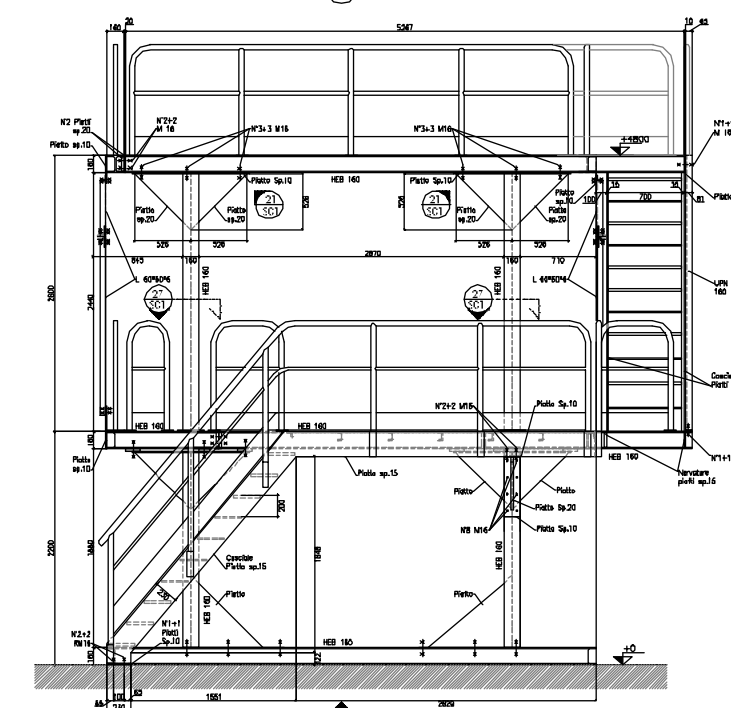
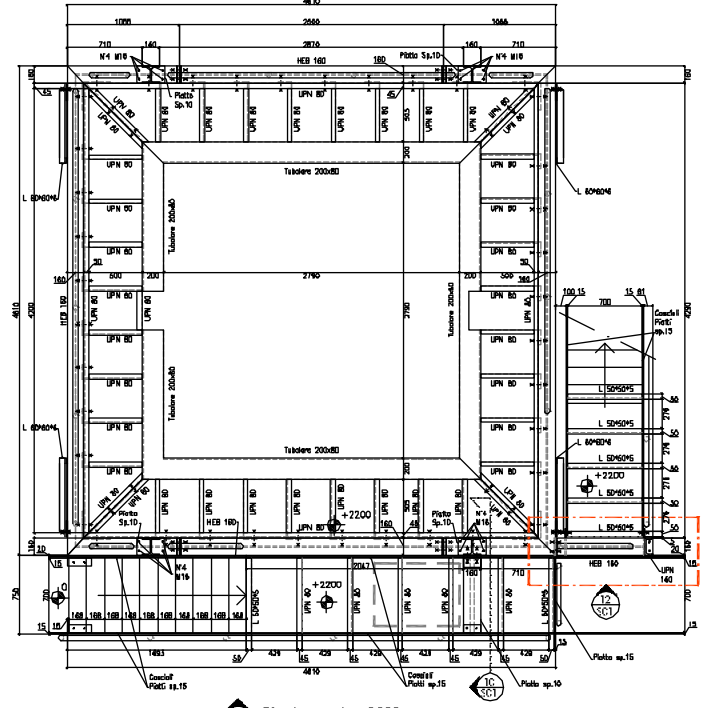
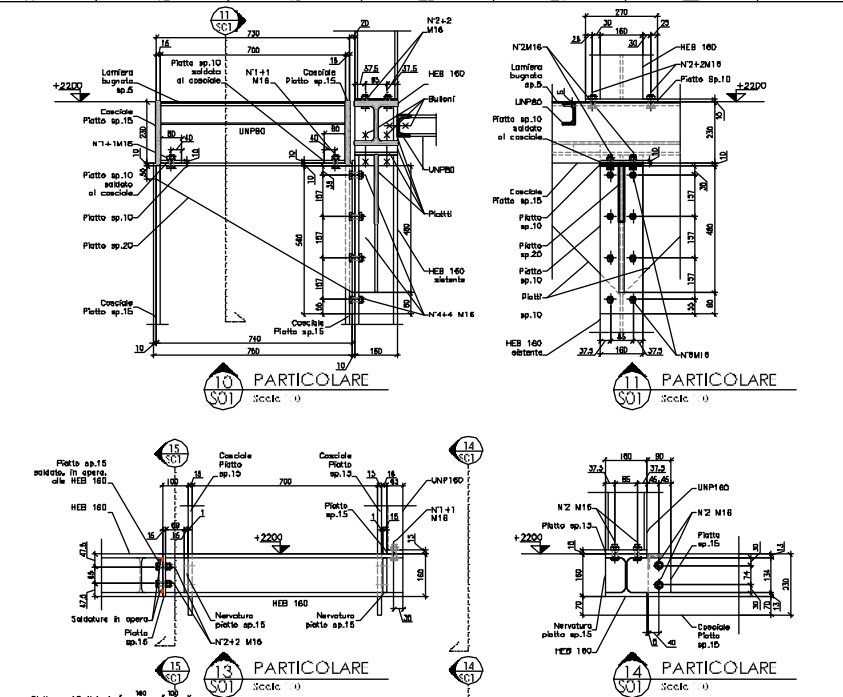
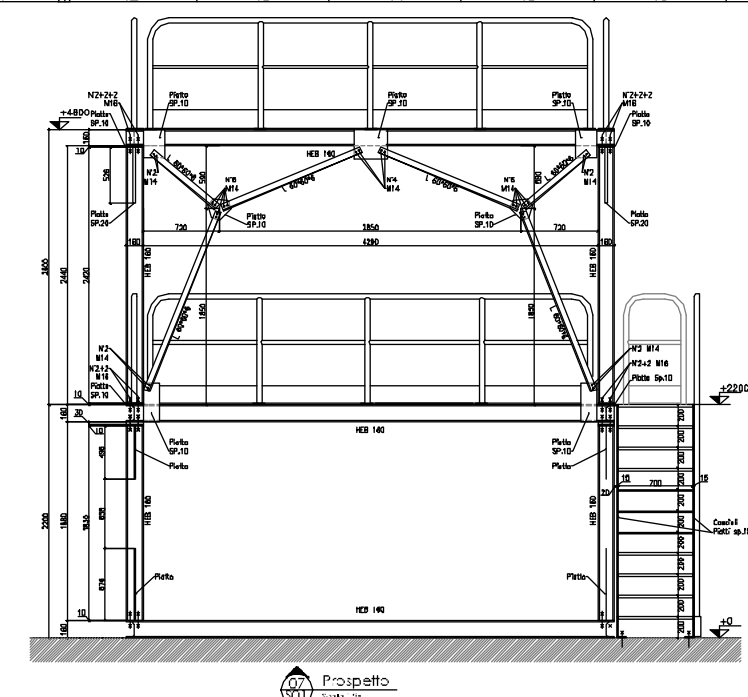
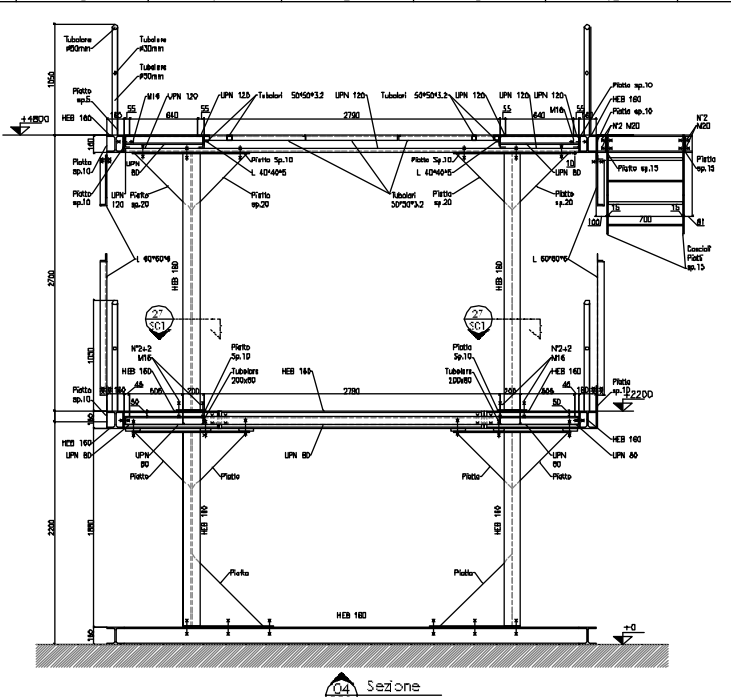
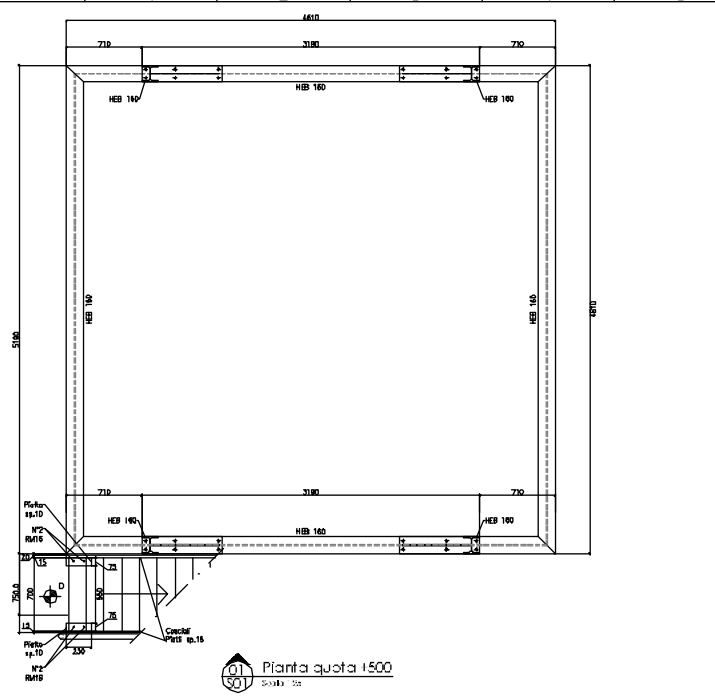


SCAFFOLDING for “MODE CLEANER” platform

DESCRIPTION: DETAILED DESIGN OF THE “MODE CLEANER” LABORATORY ACCESS PLATFORMS AND WALKWAYS, IN THE EGO (*EUROPEAN GRAVITATIONAL OBSERVATORY*) EXPERIMENTAL FACILITY IN S. STEFANO A MACERATA, CASCINA (PI).

CLIENT: EUROPEAN GRAVITATIONAL OBSERVATORY

STATUS: BUILT



NOTE:
 - TUTE LE VUE E REFERENZE ELEMENTI ESISTENTI DEVONO ESSERE VERIFICATE
 - SU I POSI PIANO DELL'ESECUZIONE DELLA OPERA E DELLA REALIZZAZIONE DEI DISegni
 - ESISTENTI VERIFICARE
 - TUTE LE SOLAIE DEL SALVO DEVONO VERIFICARE E SPECIFICARE
 - SONO DA REALIZZARE IN OFFICINA

| | | | |
|--|---|---|---|
| <p>PROGETTO R.D. Emilianese</p> | | <p>DATA LUG, 2013</p> | |
| <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> |
| <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> |
| <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> | <p>PROGETTO Emilianese</p> |

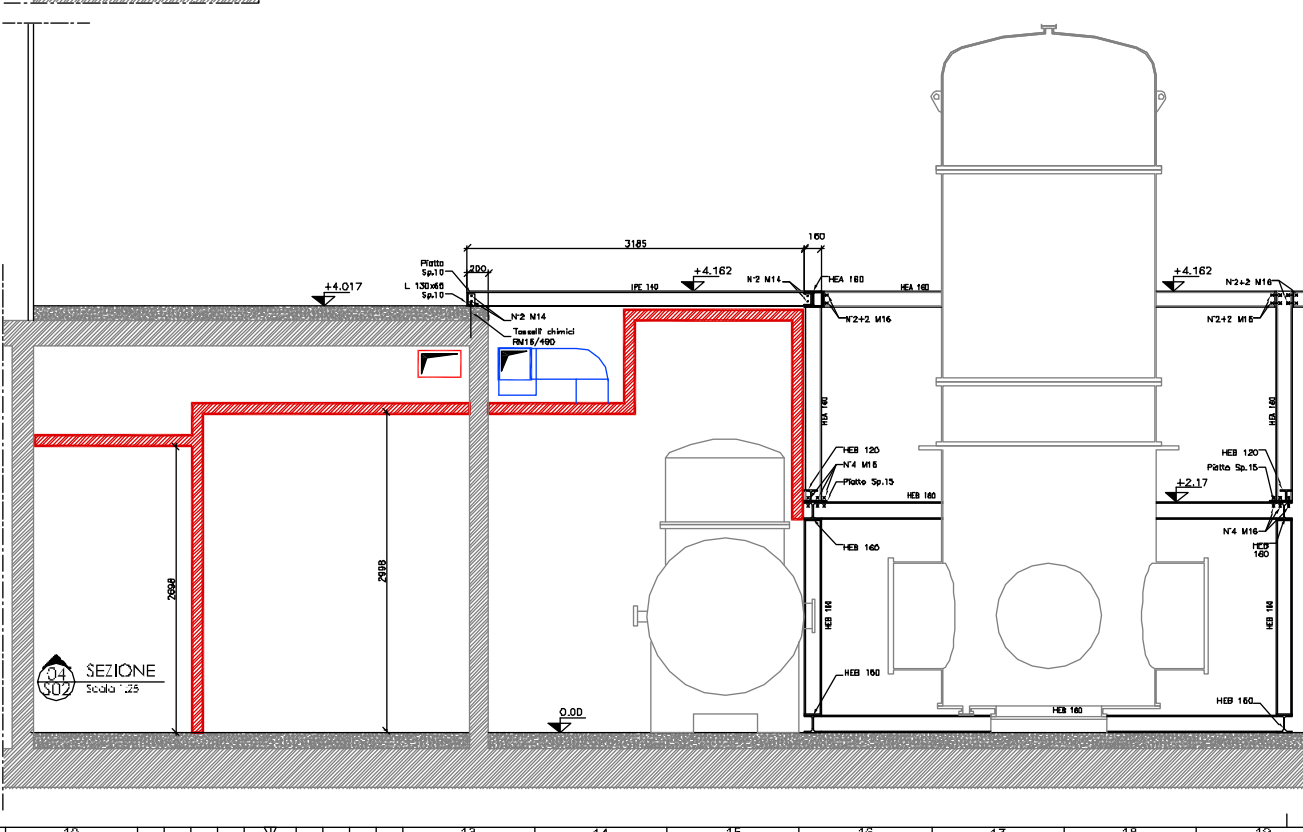
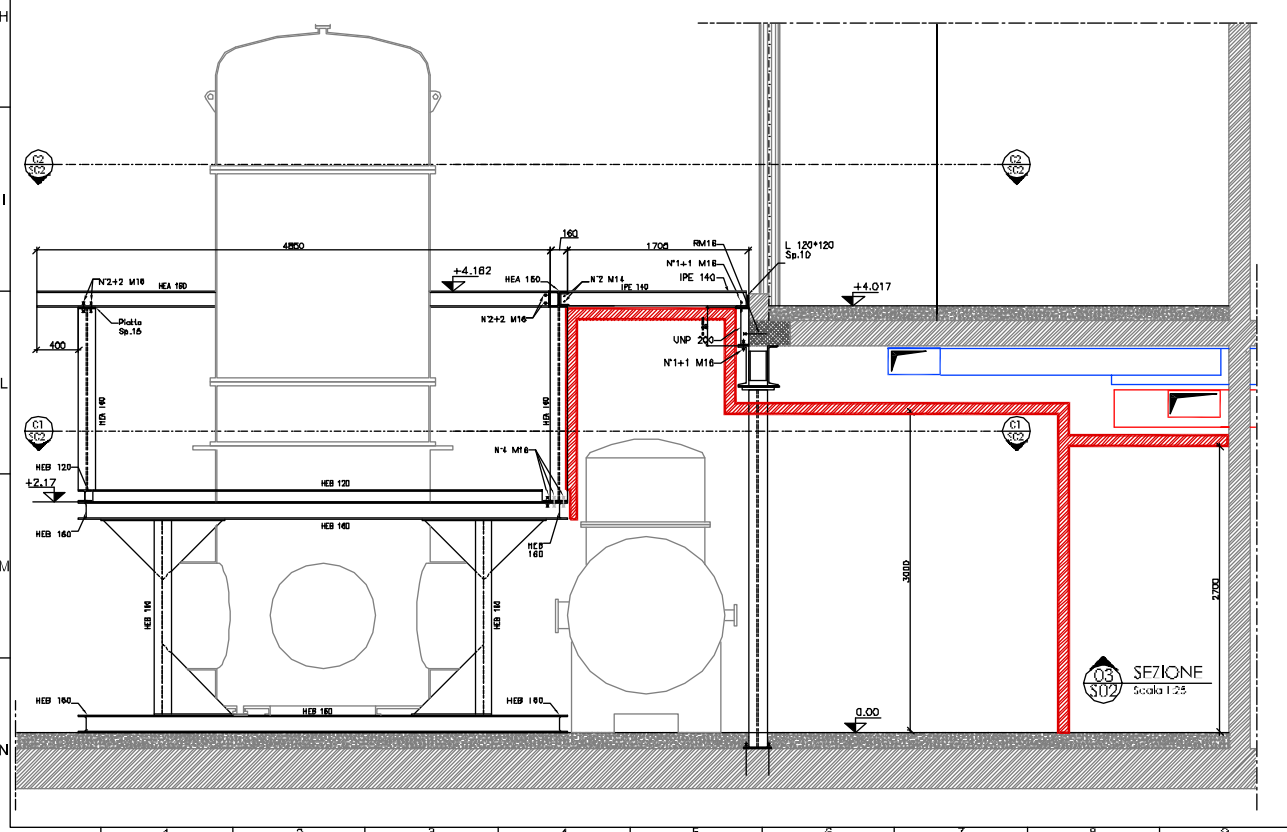
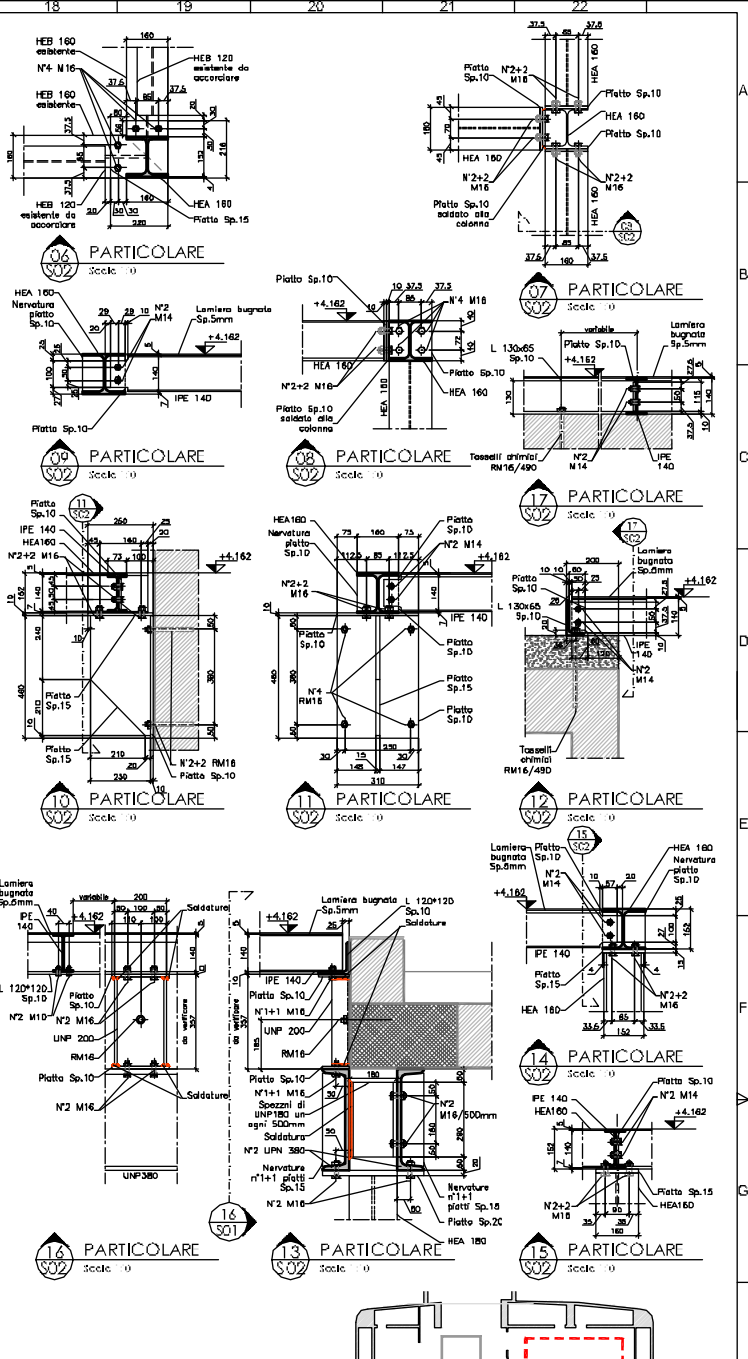
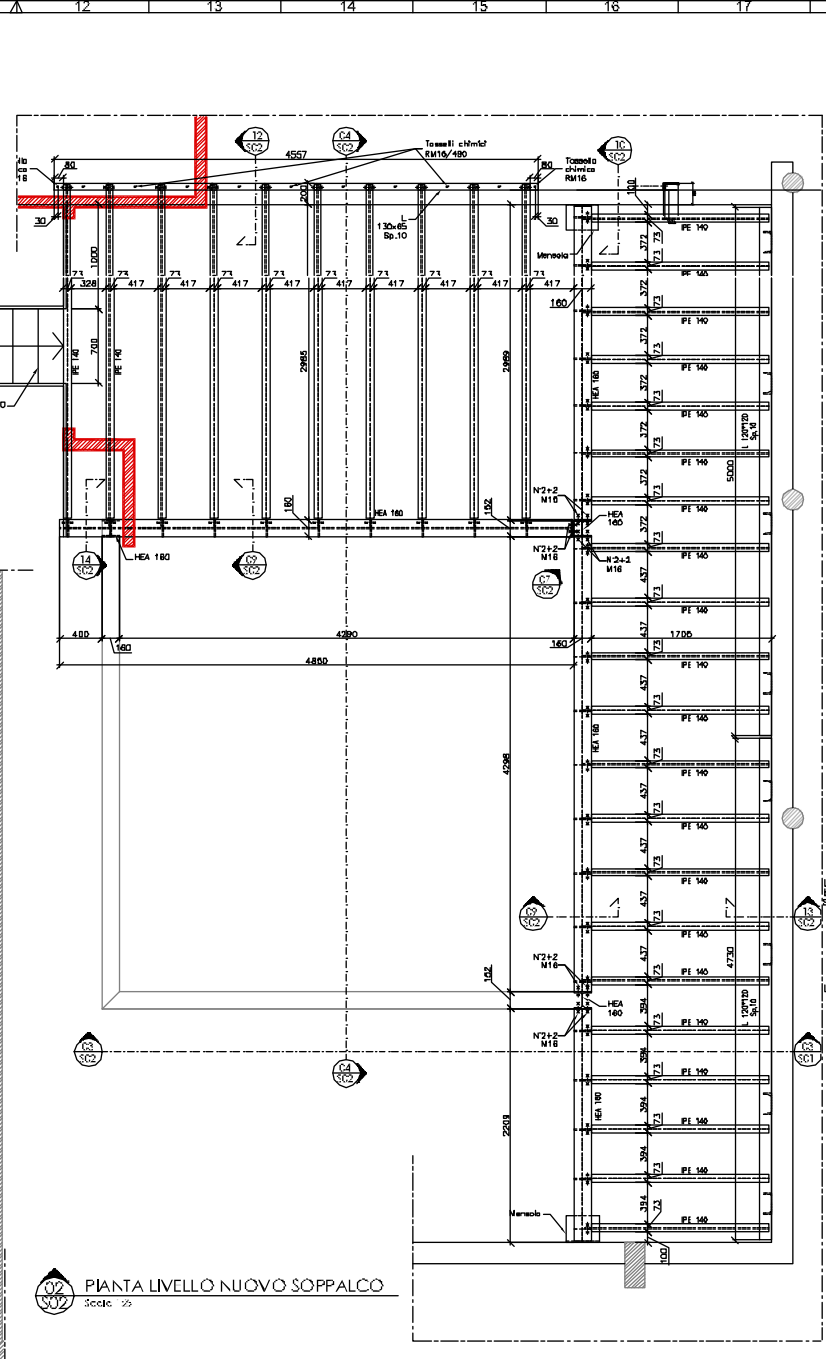
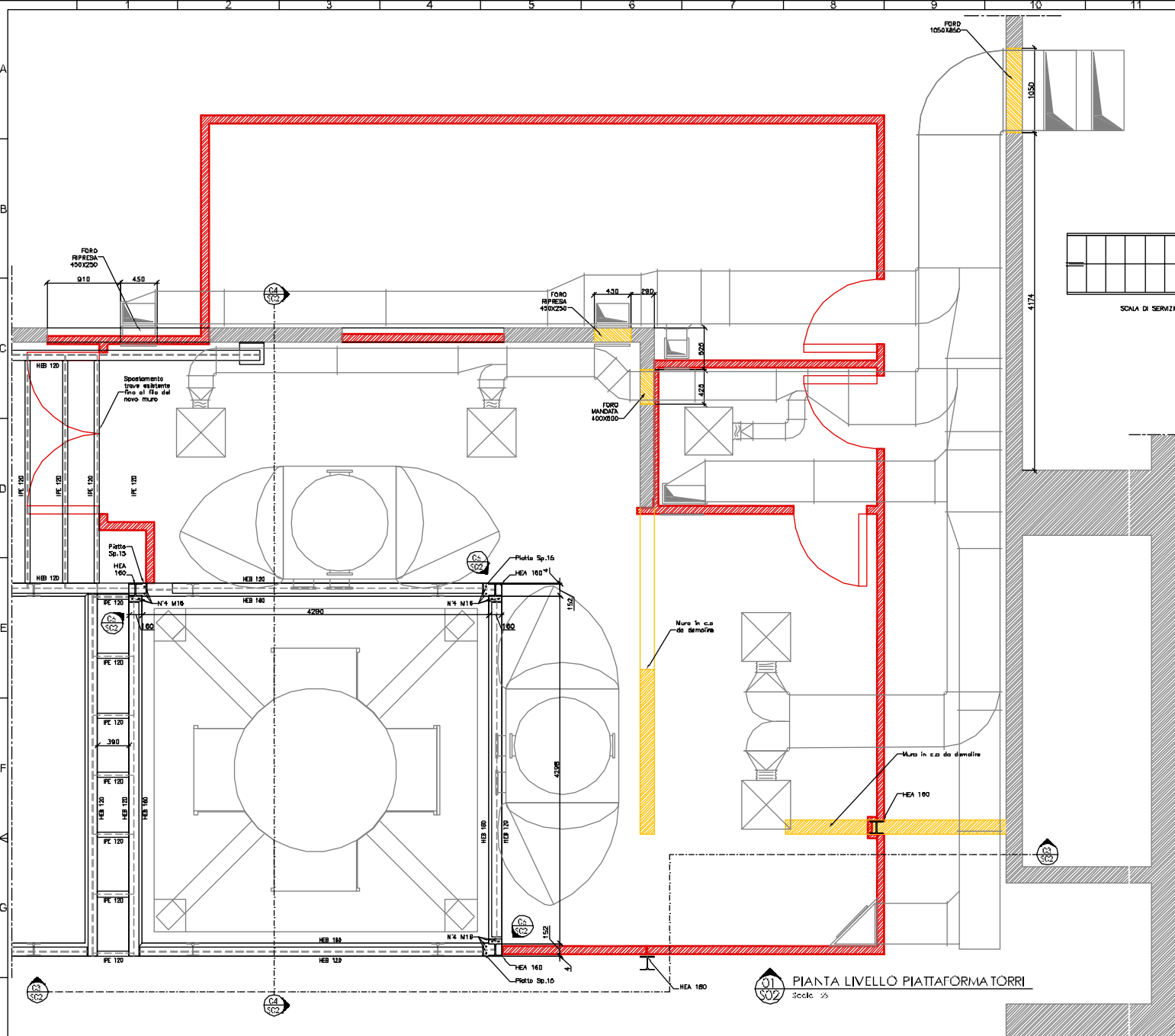
S01

studio **TECHNE**

SOCIO **TECHNE**

PROGETTO **TECHNE**

PROGETTO **TECHNE**



05 Pianta a quota -1.00 m
Scala: 1:10

NOTE:

- TUTTE LE MISURE RIFERITE A ELEMENTI ESISTENTI DEVONO ESSERE VERIFICATE SUL SITO PRIMA DELL'ESecuzione DEI LAVORI E DELLA REALIZAZIONE DEI SOGGETTI COSTRUTTIVI.
- TUTTE LE SALDATURE SALVO DOVE NON DI PAGAMENTE SPECIFICATO SONO DA REALIZZARE IN O.F.F.M.
- TUTTE LE QUOTAZIONI PER I PASSAGGI IN PIANI SONO DA CONFERMARE IN BASE AL RELATIVO PROGETTO ESECUTIVO.

REVISIONI:

| Rev. | Descrizione | Data |
|------|--|-----------|
| R0 | Emissione | LUG. 2013 |
| R1 | Modifica c.c.a. acciaio e posizione pilastro | OTT. 2013 |

PROGETTO: STUDIO **TECHNE**

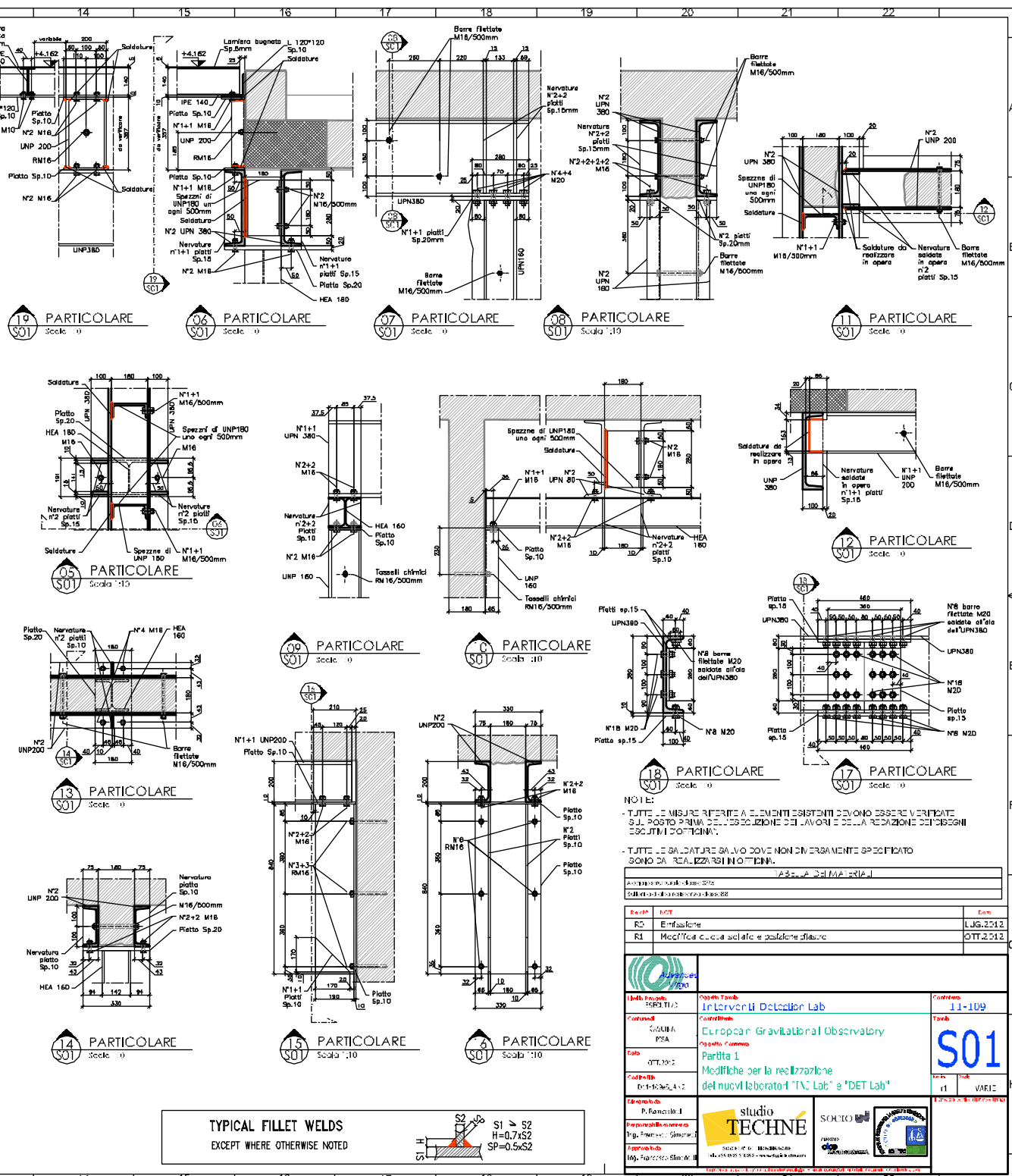
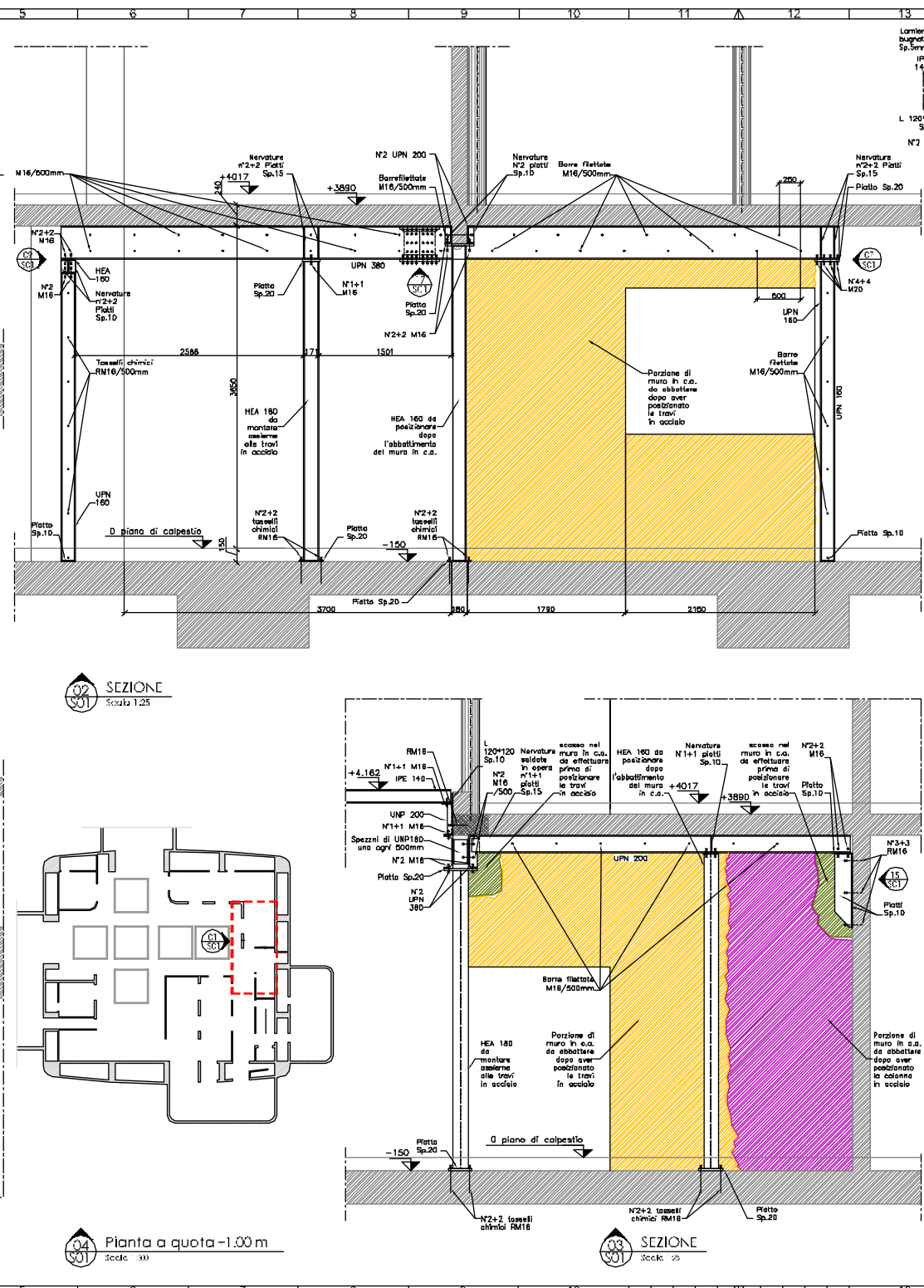
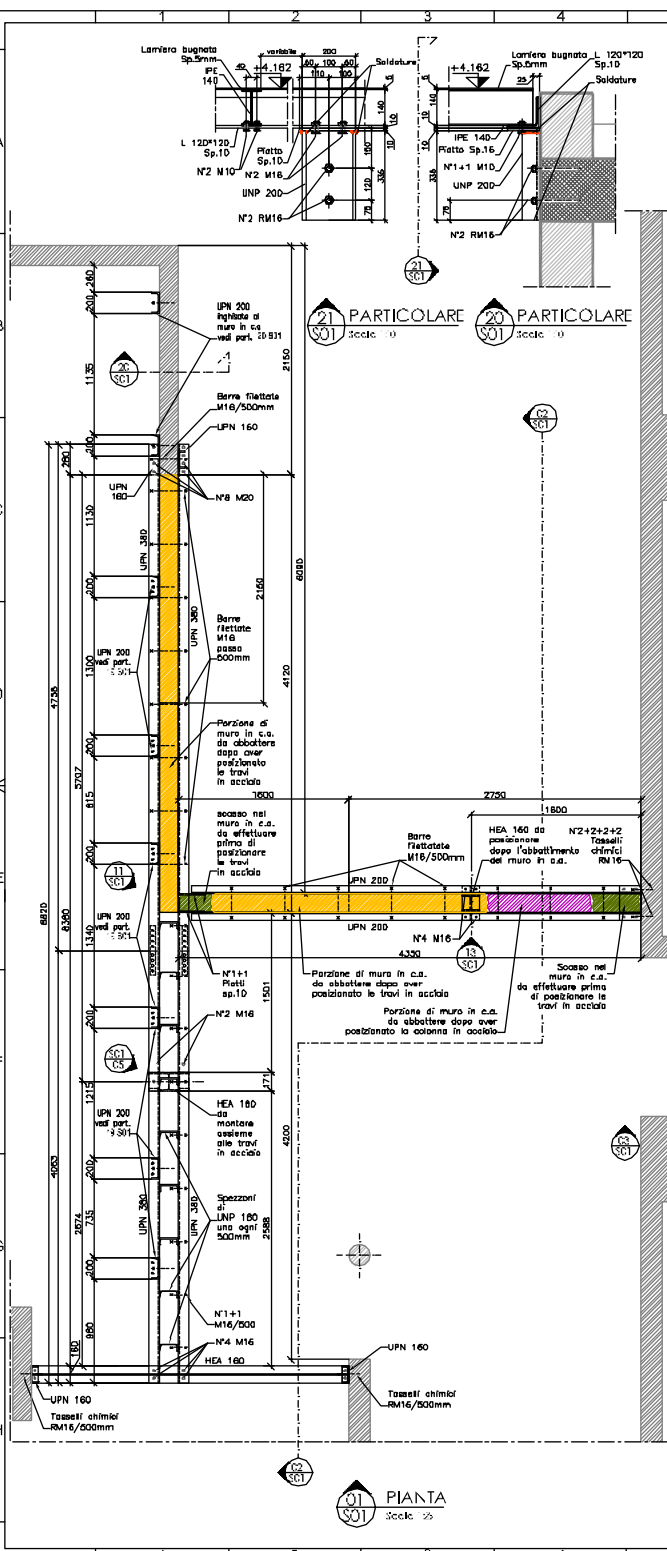
CLIENTE: European Gravitational Observatory

PROGETTO: Partita 1

DESCRIZIONE: Modifiche per la realizzazione del nuovo laboratorio "NU Lab" e "DET Lab"

NUMERO: S02

PROGETTO: STUDIO **TECHNE**



TYPICAL FILLET WELDS
EXCEPT WHERE OTHERWISE NOTED

NOTE:

- TUTTE LE MISURE RIFERITE A ELEMENTI ESISTENTI DEVONO ESSERE VERIFICATE SUL POSTO PRIMA DELL'ESecuzione DEI LAVORI E DELLA REDAZIONE DEI DISegni ESECUTIVI D'OPERA.
- TUTTE LE SALDATURE SALVO DOVE NON DIVERSAMENTE SPECIFICATO SONO DA REALIZZARSI IN OTTEVA.

| | | | |
|--------------|-----------------|-------|-----------|
| Autore | Arch. G. P. ... | Ediz. | |
| Redattore | Arch. G. P. ... | Ediz. | LUG. 2012 |
| Verificatore | Arch. G. P. ... | Ediz. | OTT. 2012 |

| | | | |
|---|---|---------------------------------------|-----------------------------|
| Intervall Detection Lab Contatti: 11-109 | European Gravitational Observatory Puntella 1 Modifiche per la realizzazione del nuovo laboratorio "IN Lab" e "DET Lab" | studio TECHNE Contatti: 11-109 | SO1 Contatti: 11-109 |
|---|---|---------------------------------------|-----------------------------|