CARATTERISTICHE DEI MATERIALI
D.M. 17 gennaio 2018

CALCESTRUZZO

STRUTTURE DI FONDAZIONE

Cemento tipo:	CEM I 42.5N	UNI-EN 197-1:2007
Classe di resistenza (MPa):	C25/30	DM 17/01/2018 – UNI-EN 206:2014
Classe di esposizione:	XC2	UNI 11104:2004 – UNI-EN 206:2014
Classe di consistenza:	S3	UNI 11104:2004 – UNI-EN 206:2014
Dimensione max nominale inerti (mm):	20	UNI 11104:2004 – EN 12350-2:2009

STRUTTURE IN ELEVAZIONE GETTATE IN OPERA

Cemento tipo:	CEM I 42.5N	UNI-EN 197-1:2007
Classe di resistenza (MPa):	C25/30	DM 17/01/2018 – UNI-EN 206:2014
Classe di esposizione:	XC1	UNI 11104:2004 – UNI-EN 206:2014
Classe di consistenza:	S3	UNI 11104:2004 – UNI-EN 206:2014
Dimensione max nominale inerti (mm):	20	UNI 11104:2004 – EN 12350-2:2009

SOLETTE INTERNE GETTATE IN OPERA

Cemento tipo:	CEM I 42.5N	UNI-EN 197-1:2007
Classe di resistenza (MPa):	C25/30	DM 17/01/2018 – UNI-EN 206:2014
Classe di esposizione:	XC1	UNI 11104:2004 – UNI-EN 206:2014
Classe di consistenza:	S3	UNI 11104:2004 – UNI-EN 206:2014
Dimensione max nominale inerti (mm):	20	UNI 11104:2004 – EN 12350-2:2009

ACCIAIO

ARMATURE

Acciaio:	B450C	
Tensione caratteristica di snervamento:	fyk = 450 MPa	D.M. 17 gennaio 2018
Tensione caratteristica di rottura:	ftk = 540 MPa	

RETI

Acciaio:	B450A	
Tensione caratteristica di snervamento:	fyk = 450 MPa	D.M. 17 gennaio 2018
Tensione caratteristica di rottura:	ftk = 540 MPa	

BULLONI e TIRAFONDI

Classe:	10.9	
Tensione caratteristica di snervamento:	fyk = 900 MPa	D.M. 17 gennaio 2018
Tensione caratteristica di rottura:	ftk = 1000 MPa	

CARPENTERIA METALLICA

Acciaio zincato a caldo:	S275JR	
Tensione caratteristica di snervamento:	fyk = 275 MPa	D.M. 17 gennaio 2018
Tensione caratteristica di rottura:	ftk = 430 MPa	

ARMATURE

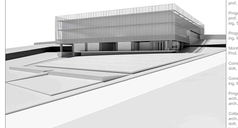
Ø	SOVRAPPOSIZIONE MINIMA	Ø	SOVRAPPOSIZIONE MINIMA
8	45 cm	20	110 cm
10	55 cm	22	120 cm
12	65 cm	24	130 cm
14	80 cm	26	145 cm
16	90 cm	30	165 cm

COPRIFERRO MINIMO

Strutture gettate in opera:	30 ± 10 mm

Comune di Camerino
CRU_CENTRO RICERCA UNIVERSITARIA
Ordinanza del Capo Dipartimento della Protezione Civile n.489 / 2017 art.6

PROGETTO ESECUTIVO



UNIVERSITA' DI CAMERINO
SAAD
Scuola di Ateneo
Architettura e Design "E. Vittoria"

Responsabile Unico del Procedimento:
Ing. Gian Luca Marconi

Coordinamento Progetto:
prof. Luigi Coccia
prof. Girolamo Lauro

Progettazione Architettonica:
prof. Arch. Dall'Aglio
prof. Marco D'Annuntiis

Progettazione Strutturale:
prof. Archivi Dall'Aglio
Ing. Stefano Pasquini

Progettazione Impiantistica:
Ing. Matteo Mascarone

Monitoraggio e sensoristica
Prof. Alessandro Zona

Consulenza Geologica:
dott. Giuseppe Cappelli

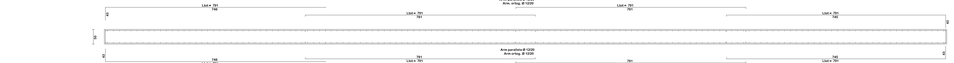
Consulenza Geotecnica:
Ing. Michela Monzi

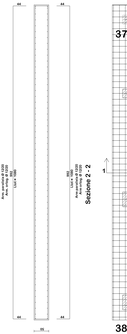
Progettazione del verde:
arch. Sara Ciputelli
arch. Alessandro Gabbanelli

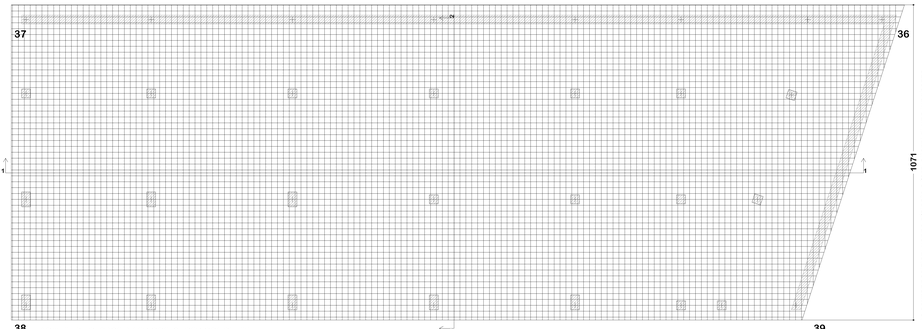
Collaboratori:
arch. Alessandro Caiani
arch. Sara Ciputelli
Ing. Laura Ginella
Ing. Fabio Morozzi
arch. Fabio Scarpecci

D | ELABORATO: 300 (0) | Locale Tecnico 1: Fili fissi, Platea di fondazione e armatura pilastri

15.12.2018

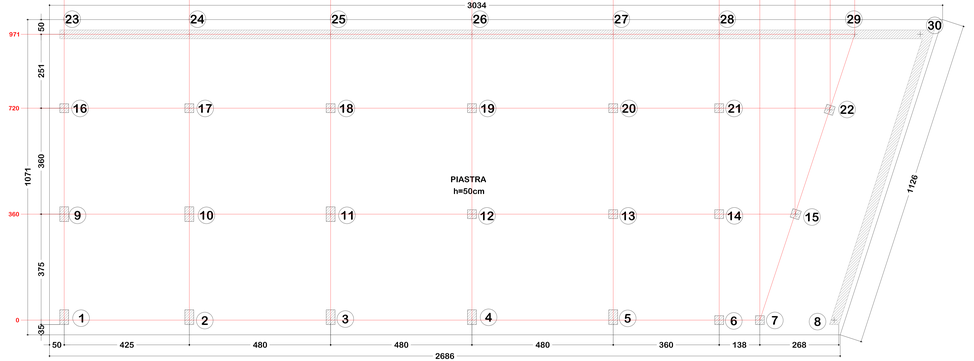






ARMATURA DI BASE INFERIORE=SUPERIORE PLATE
Ø 12/ 20 direz.X
Ø 12/ 20 direz.y (spessore= 50 cm)

ACCIAIO B450C CALCESTR. C25/30



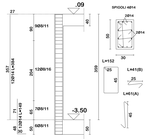
PIANTA FILI FISSI E PLATEA

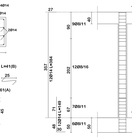
TABELLA PILASTRI QUOTA m:-3.50

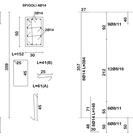
PIL.		PIL.	
1 2 3	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*45 LTOT=152 Ø8/11 L= 90 Ø8/16 L= 252 Ø8/11 L= 65	6	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 90 Ø8/16 L= 208 Ø8/11 L= 65
4	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*45 LTOT=152 Ø8/11 L= 90 Ø8/16 L= 252 Ø8/11 L= 65	7	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 90 Ø8/16 L= 208 Ø8/11 L= 65
5	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*45 LTOT=152 Ø8/11 L= 90 Ø8/16 L= 252 Ø8/11 L= 67	9	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*45 LTOT=152 Ø8/11 L= 90 Ø8/16 L= 208 Ø8/11 L= 61
10 11	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*45 LTOT=152 Ø8/11 L= 90 Ø8/16 L= 208 Ø8/11 L= 61	14	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 91 Ø8/16 L= 213 Ø8/10 L= 35
12 19	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 92 Ø8/16 L= 213 Ø8/8 L= 54	15	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 A= 1Ø14 B= 1Ø14 C= 1Ø14 D= 1Ø14 Ø8/11 L= 90 Ø8/16 L= 213 Ø8/11 L= 39
13	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 92 Ø8/16 L= 213 Ø8/8 L= 55	16	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 93 Ø8/16 L= 213 Ø8/11 L= 39
17 18	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 93 Ø8/16 L= 213 Ø8/8 L= 55	22	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 A= 1Ø14 B= 1Ø14 C= 1Ø14 D= 1Ø14 Ø8/11 L= 91 Ø8/16 L= 213 Ø8/11 L= 39
20	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 92 Ø8/16 L= 212 Ø8/8 L= 55	21	L=559 L.FER=384 SPIGOLI 4Ø14 STAFFE: 25*25 LTOT=112 Ø8/11 L= 92 Ø8/16 L= 213 Ø8/11 L= 54

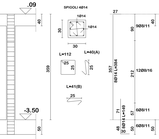
ACCIAIO B450C CALCESTR. C28/35

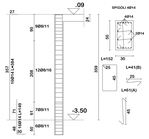
Le sovrapposizioni vanno sfalsate a ferri alterni di una lunghezza pari a 0,6S dalla sovrapposizione (EC 1992-2005 p.8.7.3)

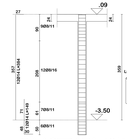


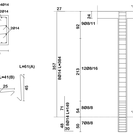


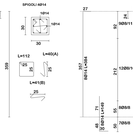


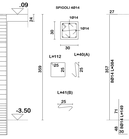


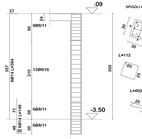


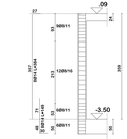


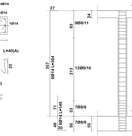


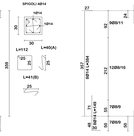


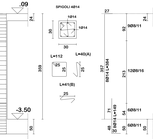


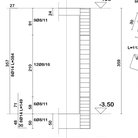
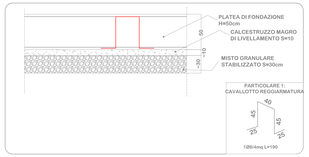












PARTICOLARE STRATIGRAFIA FONDAZIONE