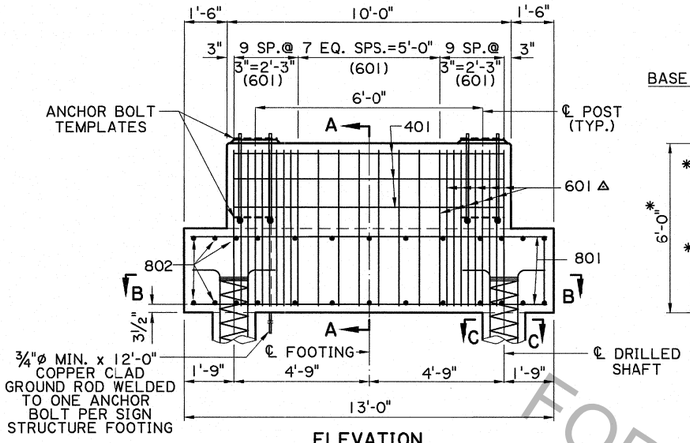
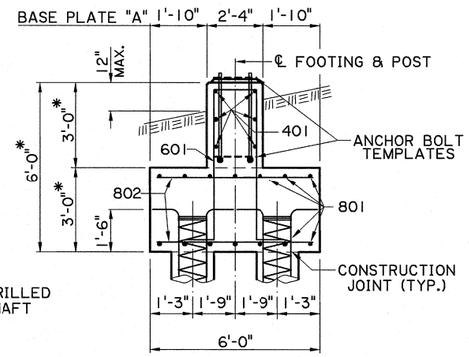
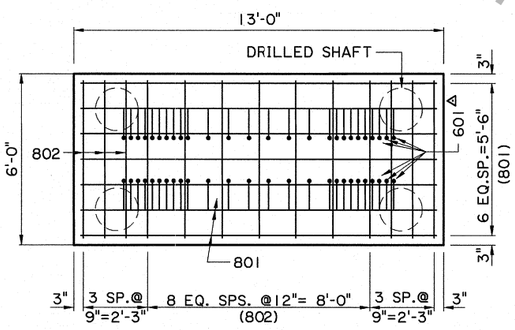
01-NOV-2011 09:29
CHECK PRINTS
IP_PWP:dms55699\Overhead Traffic Signs 13.dgn



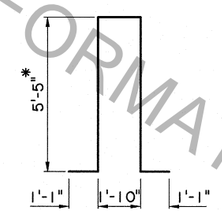
ELEVATION



SECTION A-A



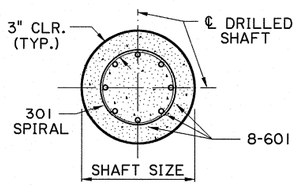
SECTION B-B



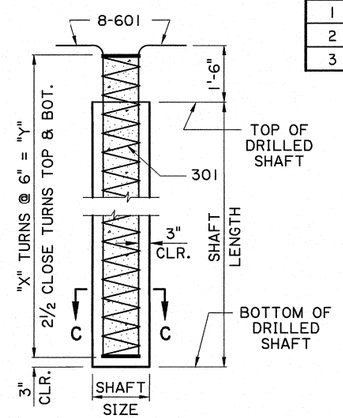
601
(4½"ø PIN)

DRILLED SHAFT FOOTING "A"
(OVERHEAD SIGN TRUSS)

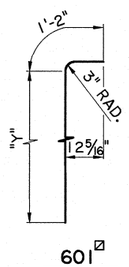
DRILLED SHAFT DATA TABLE (FOOTING "A")				
WIND ZONE	SHAFT SIZE (IN.)	SHAFT LENGTH (FT.)	X	Y (FT.)
1	18	30	62	31
2	18	35	72	36
3	18	60	122	61



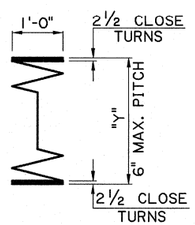
SECTION C-C



DRILLED SHAFT DETAIL



601 ⊠
(4½"ø PIN)

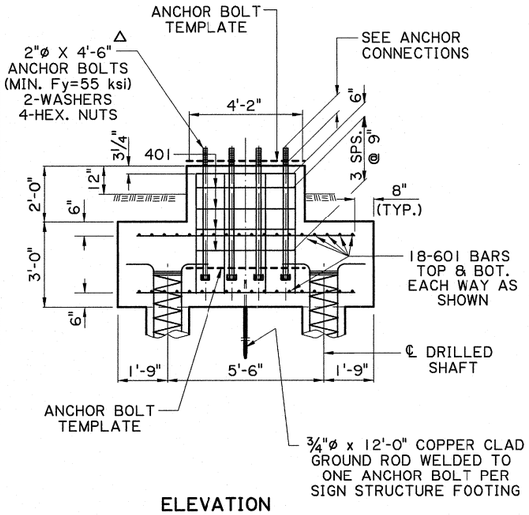


301 ⊗

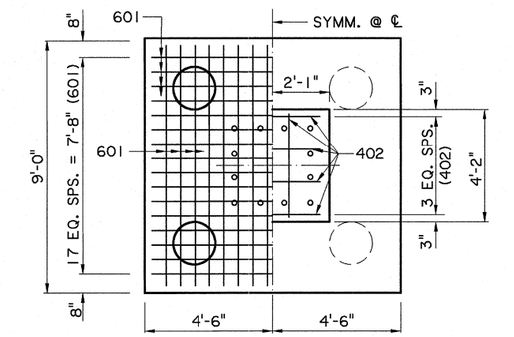
ESTIMATED QUANTITIES (DRILLED SHAFT FOOTING "A")				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
801	14	12'-6"	175'-0"	FOOTING
802	26	5'-6"	143'-0"	FOOTING
TOTAL NO. 8 BARS = 318'-0"			=	849 LBS.
601	26	14'-10"	385'-8"	STIRRUPS IN FOOTING & PED.
TOTAL NO. 6 BARS = 385'-8"			=	579 LBS.
401	6	9'-6"	57'-0"	PEDESTAL
TOTAL NO. 4 BARS = 57'-0"			=	38 LBS.
TOTAL DEFORMED REINFORCING STEEL			=	1466 LBS.
TOTAL CLASS A CONCRETE			=	11.26 CU.YDS.
STRUCTURAL EXCAVATION			=	40.0 CU.YDS.
STRUCTURAL STEEL			=	(SEE ANCHOR BOLT DETAILS)
⊖ DRILLED SHAFT			=	140 LIN. FT.

ESTIMATED QUANTITIES (CANTILEVER SIGN TRUSS ; ONE FOOTING)				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
601	72	7'-8"	552'-0"	FOOTING
TOTAL NO. 6 BARS = 552'-0"			=	829 LBS.
401	4	15'-6"	62'-0"	STIRRUPS IN FOOTING & PED.
402	6	14'-0"	84'-0"	STIRRUPS IN FOOTING & PED.
TOTAL NO. 4 BARS = 146'-0"			=	98 LBS.
TOTAL DEFORMED REINFORCING STEEL			=	927 LBS.
TOTAL CLASS A CONCRETE			=	10.29 CU.YDS.
STRUCTURAL EXCAVATION			=	34.7 CU.YDS.
STRUCTURAL STEEL			=	(SEE ANCHOR BOLT DETAILS)
⊖ DRILLED SHAFT			=	120 LIN.FT.

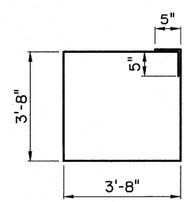
ESTIMATED QUANTITIES (ONE DRILLED SHAFT ; L = 35'-0") ⊖				
BAR	NO.	UNIT LENGTH	TOTAL LENGTH	LOCATION
⊠ 601	8	37'-2"	297'-4"	DRILLED SHAFT
TOTAL NO. 6 BARS = 297'-4"			=	447 LBS.
⊗ 301	1	237'-3"	237'-3"	SPIRAL
TOTAL NO. 3 BARS = 237'-3"			=	89 LBS.
TOTAL DEFORMED REINFORCING STEEL			=	536 LBS.
TOTAL CLASS S CONCRETE			=	2.29 CU.YDS.



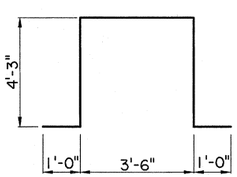
ELEVATION



PLAN



401
(2"ø PIN)



402
(2"ø PIN)

DRILLED SHAFT CANTILEVER FOOTING

DRILLED SHAFT DATA TABLE (CANTILEVER FOOTING)				
WIND ZONE	SHAFT SIZE (IN.)	SHAFT LENGTH (FT.)	X	Y (FT.)
1	18	30	62	31
2	18	30	62	31
3	18	60	122	61

NOTES:

THIS DRILLED SHAFT ALTERNATE IS ALLOWED IN LIEU OF TIMBER PILES AND IS A SUPPLEMENT TO PLAN SHEET NO. 8 OF 16.

FOR ANCHOR BOLT DETAILS, SEE TYPE II TRUSS & CANTILEVER DETAILS AND THE GENERAL NOTES.

ANCHOR BOLTS SHALL BE FURNISHED IN A PREPOSITIONED ANCHOR BOLT ASSEMBLY. (TWO TEMPLATES REQUIRED)

* THESE DIMENSIONS MAY VARY ± ONE FOOT TO ADJUST ELEVATION FOR SITE ADJUST 401 & 601 BARS ACCORDINGLY.

△ NO. 601 BARS MAY BE MOVED TO CLEAR TRUSS ANCHOR BOLTS.

⊖ WIND ZONE 2 ASSUMED FOR SHAFT QUANTITIES. FOR OTHER WIND ZONES, ADJUST QUANTITIES ACCORDINGLY. SEE DRILLED SHAFT DATA TABLES.

⊠ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 2'-9".

⊗ IF A SPLICE IS REQUIRED, THE MINIMUM SPLICE LENGTH SHALL BE 1½ TURNS.

STATE OF LOUISIANA
KURT M. BRAUNER
License No. 30567
PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
8/29/11

STATE OF LOUISIANA
CHING-NIEN TSAI
REG. No. 23092
REGISTERED PROFESSIONAL ENGINEER IN
CIVIL ENGINEERING
8/29/2011

FOR GEOTECHNICAL INFORMATION ONLY

FOR PURPOSES ONLY

SHEET NUMBER

PARISH | FEDERAL PROJECT | STATE PROJECT

DESIGNED K. BRAUNER
CHECKED C. PORTER
DETAILED I.KOURILOVA
CHECKED K. BRAUNER
DATE JAN. 2011
SHEET 13 OF 16

REVISION DESCRIPTION | BY | NO. | DATE

DRILLED SHAFT FOOTING ALT.

BD.2.7.1.0.13 - OVERHEAD TRAFFIC SIGNS

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

BRIDGE AND STRUCTURAL DESIGN