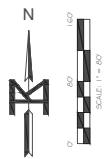


TOTAL PARKING  
 489 REGULAR SPACES  
 19 ACCESSIBLE SPACES  
 TOTAL ACCESSIBLE SPACES REQUIRED = 13 SPACES



LEGEND  
 --- SPECIAL USE BOUNDARY

PROJ. SHEET DRAW	TITLE: RLI EXISTING OVERALL CAMPUS SITE PLAN SPECIAL USE BOUNDARY		CLIENT: RLI PEORIA CAMPUS
SUBMITTED	CASH	DATE	12/27/18
CHECKED	SCALE	DATE	
DESIGNED	DATE		
REV. 1	DATE		
REV. 2	DATE		
REV. 3	DATE		
REV. 4	DATE		
REV. 5	DATE		
REV. 6	DATE		
REV. 7	DATE		
REV. 8	DATE		
REV. 9	DATE		
REV. 10	DATE		
REV. 11	DATE		
REV. 12	DATE		
REV. 13	DATE		
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REV. 95	DATE		
REV. 96	DATE		
REV. 97	DATE		
REV. 98	DATE		
REV. 99	DATE		
REV. 100	DATE		

**M** MOHR & KERR ENGINEERING & LAND SURVEYING, P.C.  
 5901 N. Prospect Road, Suite 8B  
 Peoria, Illinois 61614  
 www.mohr-kerr.com  
 Office: (309) 692-9500  
 Fax: (309) 692-9501  
 Professional Design Firm #184-005091



NOTE: DIMENSIONS ON SOLAR PANELS AND AISLE ARE DEPENDENT ON FINAL PANEL MANUFACTURER. NUMBER OF ROWS AND GENERAL SPACING OF PANEL SHALL NOT CHANGE.

**LANDSCAPING**  
 FRONT YARD - 600' - 403 POINTS REQUIRED  
 EXISTING SHADE TREE 3 @ 15 POINTS  
 EVERGREENS - 1 @ 20 POINTS  
 SHRUBS - 107 @ 3 POINTS  
 GREEN MOUNTAIN BOXWOOD HEDGE  
 TOTAL POINTS PROVIDED - 620 POINTS

OVERALL EXISTING SITE PLAN  
 SCALE: 1" = 30'

CLIENT:	
SUBMITTED	DATE
CHECKED	DATE
DATE	DATE

**MOHR & KERR ENGINEERING & LAND SURVEYING, P.C.**  
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 Peoria, Illinois 61614  
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PROJECT NO. 04-306  
 SHEET 2 OF 3  
 DRAWING NO. C2.0

TITLE:  
 RUI PEORIA CAMPUS  
 SOLAR FARM  
 SPECIAL USE EXHIBIT

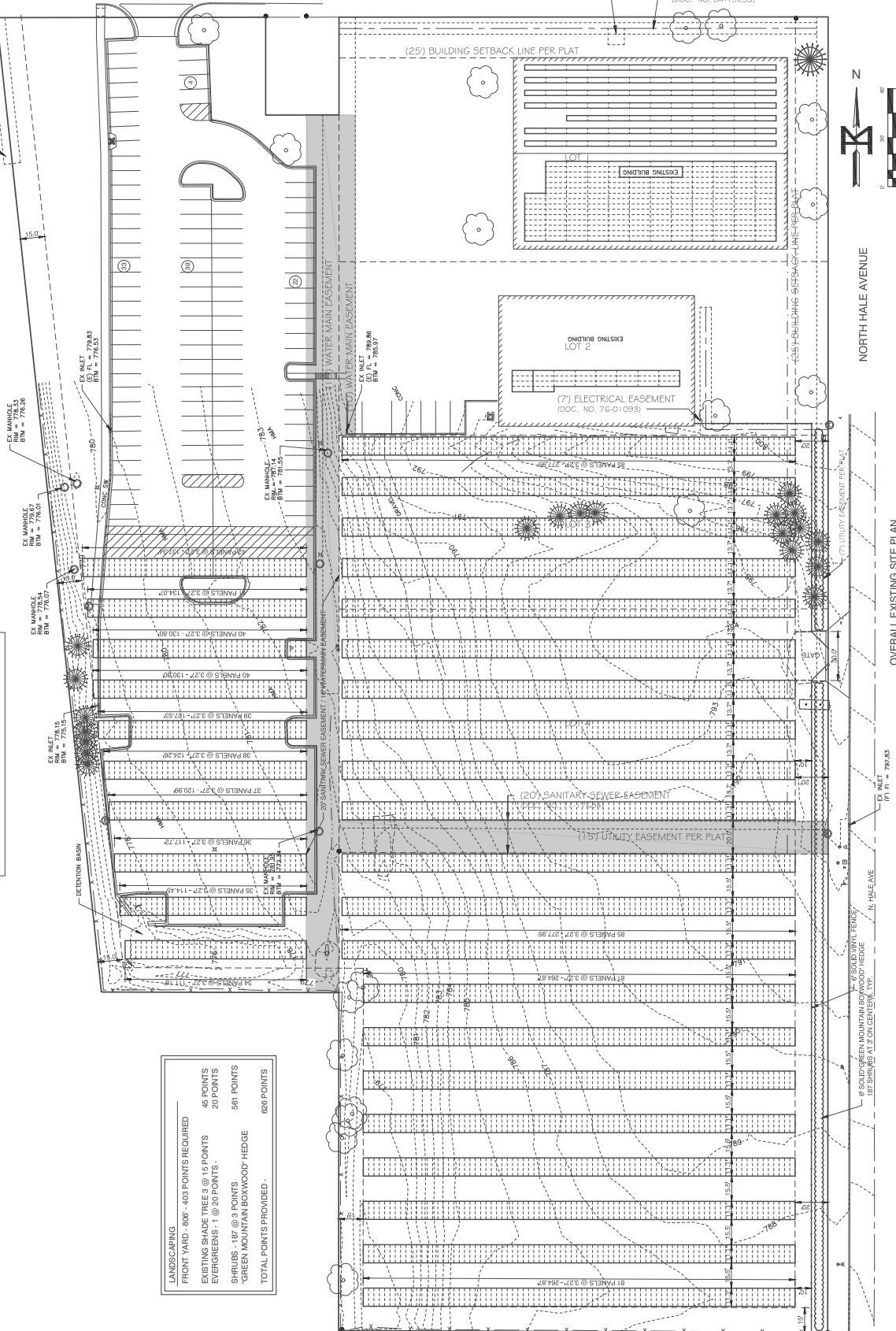
SCALE: 1" = 30'

CLIENT:	
SUBMITTED	DATE
CHECKED	DATE
DATE	DATE

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 Professional Design Firm #184-006091  
 www.mohr-kerr.com

(10) ELECTRICAL EASEMENT  
(DOC. NO. 34-05942)

NOTE: DIMENSIONS ON SOLAR PANELS AND AISLE ARE DEPENDENT ON FINAL PANEL MANUFACTURER. NUMBER OF ROWS AND GENERAL SPACING OF PANEL SHALL NOT CHANGE.



**LANDSCAPING**  
 FRONT YARD - 600' - 403 POINTS REQUIRED  
 EXISTING SHADE TREE 3 @ 15 POINTS  
 20 POINTS  
 EVERGREENS - 1 @ 20 POINTS -  
 561 POINTS  
 SHRUBS - 107 @ 5 POINTS  
 GREEN MOUNTAIN BOMWOOD HEDGE  
 628 POINTS  
 TOTAL POINTS PROVIDED -

PHOTOLOG 04.30.20  
 SHEET 3 OF 3  
 DRAWING NO. C2.1

**SOLAR FARM  
 SPECIAL USE EXHIBIT**

TITLE: **RUI PEORIA CAMPUS**

SCALE: 1" = 30'

CLIENT: **MOHR & KERR ENGINEERING & LAND SURVEYING, P.C.**  
 5901 N. Prospect Road, Suite 8B  
 Peoria, Illinois 61614  
 Professional Design Firm #184-006091  
 www.mohrland.com

REV.	DATE	BY	CHKD.	SCALE

DATE: 12/27/18

OVERALL EXISTING SITE PLAN  
 SCALE: 1" = 30'



REVISION	DATE	DESCRIPTION
1	10/23/20	INITIAL
2	11/02/20	ADD TILT ADJUSTERS
3	11/26/20	REVISED NOTES
4	12/15/20	REVISED NOTES & SP-300
5	12/24/21	UPDATED LINE TYPES

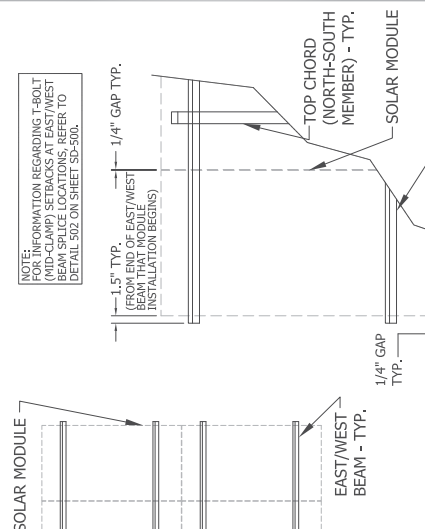
DATE: 12/24/21  
 DRAWING NUMBER: SD-300  
 PROJECT NUMBER: 1111 Broadway Boulevard, Suite 400  
 Albuquerque, New Mexico 87102  
 Phone: (505) 242-4111  
 Fax: (505) 242-4112  
 WWW.UNIRAC.COM

UNIRAC'S DGFT  
 DISTRIBUTION GROUND FIXED TILT  
 STRUCTURAL RACKING DRAWINGS

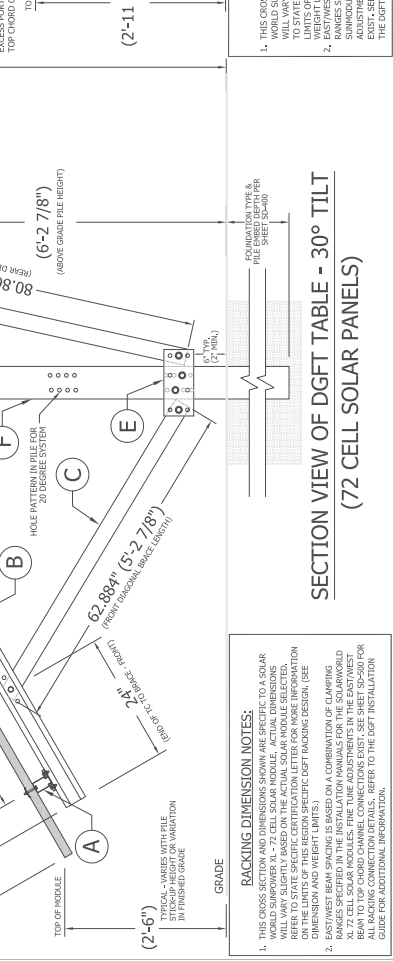
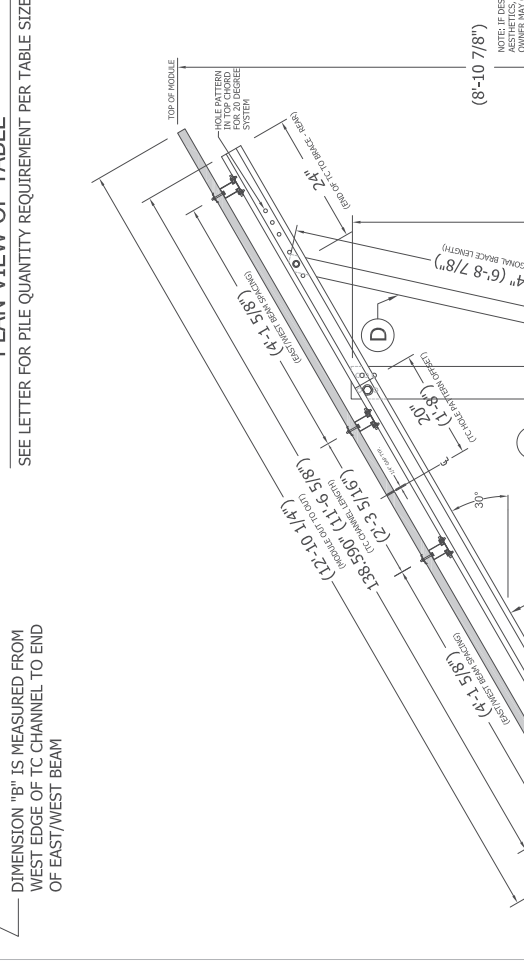
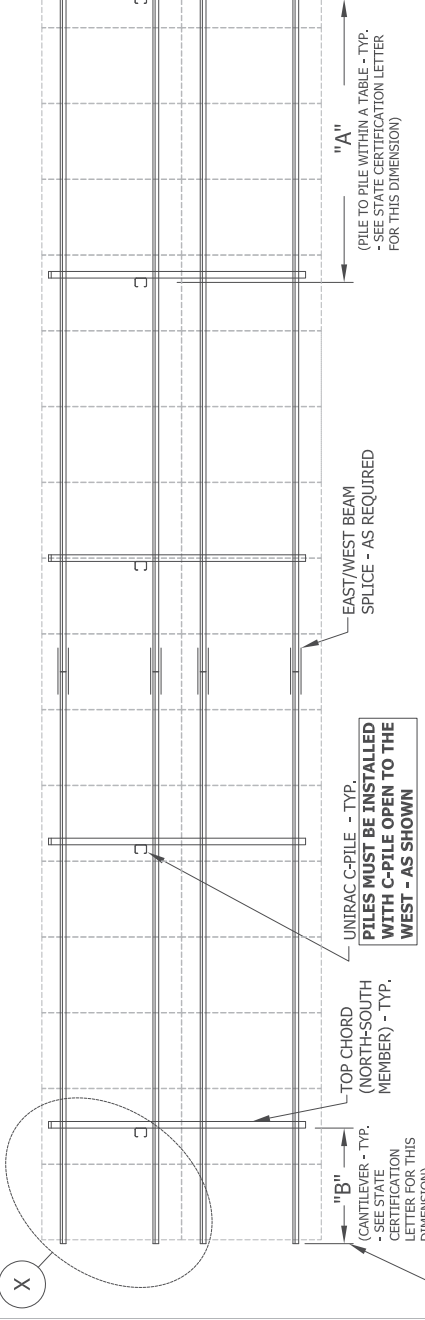
PROFESSIONAL SEAL  
 SEE STATE  
 SPECIFIC STAMPED  
 & SIGNED GFT  
 CERTIFICATION  
 LETTER

UNIRAC  
 1111 Broadway Boulevard, Suite 400  
 Albuquerque, New Mexico 87102  
 Phone: (505) 242-4111  
 Fax: (505) 242-4112  
 WWW.UNIRAC.COM

PROJECT NUMBER: SD-300  
 DRAWING NUMBER: SD-300  
 SHEET: 3 of 3



REF NUMBER	PART DESCRIPTION	GUAGE/ THICKNESS	FINISH
A	ALUMINIUM E-W BEAM	-	MILL
B	TOP CHORD CHANNEL	14	G180
C	FRONT DIAGONAL BRACE	14	G180
D	REAR DIAGONAL BRACE	14	G180
E	DIAGONAL BRACE PLATE	-	G180
F	C-PILE	11	G235



- RACKING-DIMENSION NOTES:
- THIS CROSS SECTION AND DIMENSIONS SHOWN ARE SPECIFIC TO A SOLAR MODULE. DIMENSIONS WILL VARY SLIGHTLY BASED ON THE ACTUAL SOLAR MODULE SELECTED. REFER TO STATE SPECIFIC CERTIFICATION LETTER FOR MORE INFORMATION ON THE WEIGHT LIMITS.
  - EAST/WEST BEAM SPACING IS BASED ON A COMBINATION OF CLAMPING AND SHIMMOLE PILES AND TRIMA POOL - 60 CELL SOLAR MODULES, FINE TUNE ADJUSTMENTS IN THE EAST/WEST BEAM TO TOP CHORD CHANNEL CONNECTIONS WILL VARY SLIGHTLY. REFER TO THE DGFT INSTALLATION GUIDE FOR ADDITIONAL INFORMATION.

DATE	REVISION	DESCRIPTION
10/17/19	1	ISSUE FOR PERMITS
11/15/19	2	REVISED PERMITS
01/16/20	3	REVISED PERMITS
02/12/20	4	REVISED PERMITS
03/10/20	5	REVISED PERMITS
03/10/20	6	REVISED PERMITS

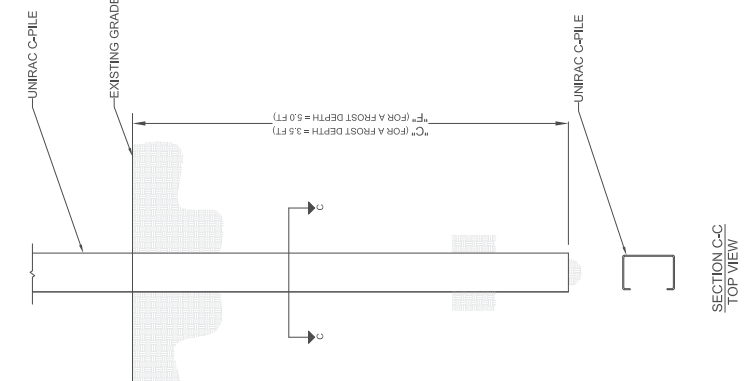
ENGINEER/CONSULTANT:  
**Design Optimization Technologies**  
 424 Jefferson Street  
 Houston, TX 77002  
 Phone: (281) 724-8872  
 www.dotengineer.com

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 & SIGNED GFT  
 CERTIFICATION  
 LETTER

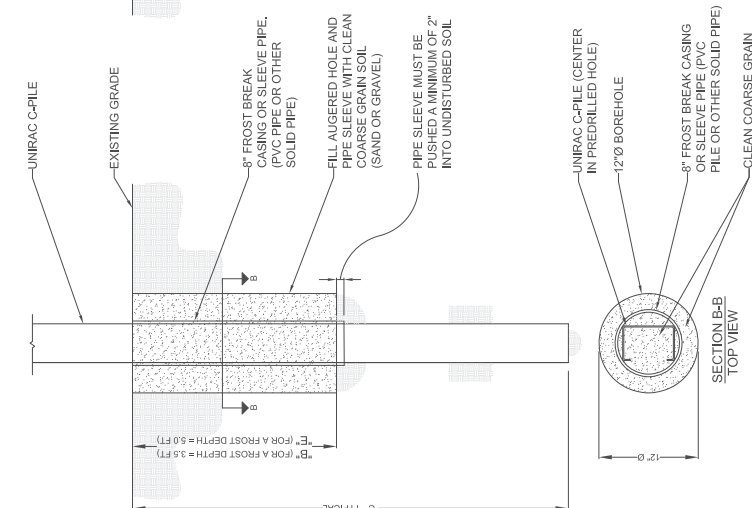
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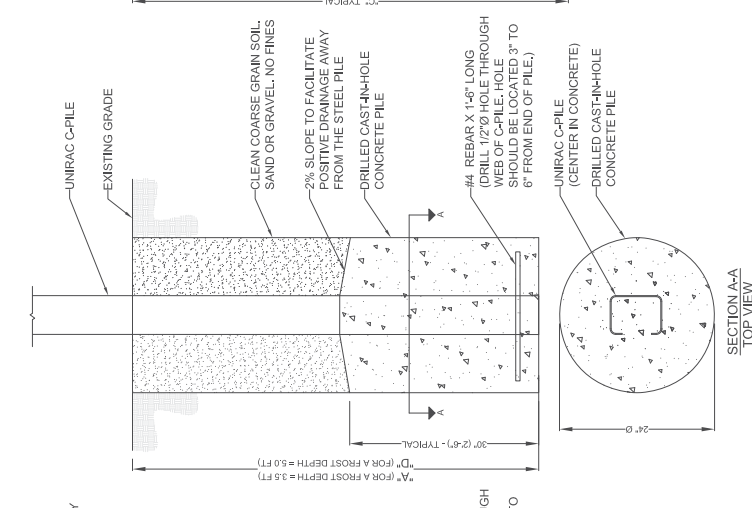
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PROJECT NAME:	FOUNDATION AND FOUNDATION DETAILS
PROJECT NUMBER:	SD-400



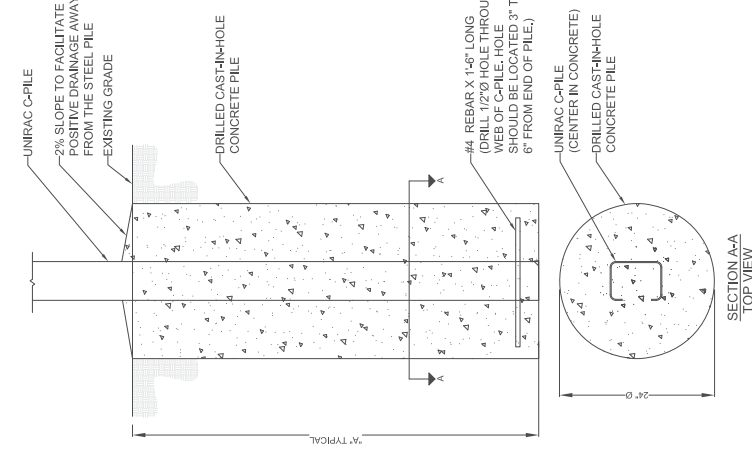
SECTION A-A  
TOP VIEW



SECTION B-B  
TOP VIEW



SECTION C-C  
TOP VIEW



SECTION A-A  
TOP VIEW

**400** NOT TO SCALE  
**DRILLED CAST-IN-HOLE CONCRETE PILE FOUNDATION**  
 (ALTERNATE OPTION)

FOUNDATION 400: DRILLED CAST-IN-HOLE CONCRETE PILE FOUNDATION. FOUNDATION MUST BE EXCAVATED WITH LITTLE TO NO LOOSE MATERIAL IN THE BOTTOM.

- IF THE FOUNDATION IS BELOW THE GROUND WATER LEVEL, THERE MUST BE A TEMPORARY CASING IN PLACE TO STABILIZE THE EXCAVATION.
- AROUND THE CASING, THE PILE MUST BE CENTERED IN THE HOLE WITH EQUAL AMOUNTS OF CONCRETE.
- CONCRETE SHALL CONFORM TO THE CONCRETE SPECIFICATIONS LISTED ON SHEET DR-100.
- THE TOP OF THE CONCRETE MUST BE ABOVE GRADE.
- UNIRAC C-PILES AS DEPICTED IN THE FIGURE.

**401** NOT TO SCALE  
**DRILLED "PARTIAL" CAST-IN-HOLE CONCRETE PILE FOUNDATION**  
 (ALTERNATE OPTION)

FOUNDATION 401: DRILLED "PARTIAL" CAST-IN-HOLE CONCRETE PILE FOUNDATION. FOUNDATION MUST BE EXCAVATED WITH LITTLE TO NO LOOSE MATERIAL IN THE BOTTOM.

- IF THE FOUNDATION IS BELOW THE GROUND WATER LEVEL, THERE MUST BE A TEMPORARY CASING IN PLACE TO STABILIZE THE EXCAVATION.
- AROUND THE CASING, THE PILE MUST BE CENTERED IN THE HOLE WITH EQUAL AMOUNTS OF CONCRETE.
- CONCRETE SHALL CONFORM TO THE CONCRETE SPECIFICATIONS LISTED ON SHEET DR-100.
- THE TOP OF THE CONCRETE MUST BE BELOW THE DEPTH OF THE FROST ZONE.
- THE UNIRAC C-PILES AS DEPICTED IN THE FIGURE.
- THE BACKFILL MATERIAL MUST CONSIST OF MEDIUM TO COARSE SAND OR GRAVEL. NO CLAY OR ORGANICS MAY BE USED IN THE BACKFILL.

**402** NOT TO SCALE  
**PARTIAL DRIVEN PILE WITH CLEAN COARSE BACKFILL**  
 (ALTERNATE OPTION)

FOUNDATION 402: PARTIAL DRIVEN PILE WITH CLEAN COARSE BACKFILL. EACH PILE SECTION MUST BE FULFILLED WITH THE SAME DIMENSION SHOWN.

- THE PILE MUST BE CENTERED IN THE HOLE WITH THE FROST BREAK CASING PLACED AROUND THE PILE PRIOR TO BACKFILLING THE EXCAVATION.
- THE FROST BREAK CASING MUST NOT HAVE ANY CRACKS OR HOLES THAT MAY ALLOW WATER TO SEEP IN. THE CASING MUST BE SET A MINIMUM OF 2 INCHES INTO THE GROUND SURFACE.
- THE BOTTOM OF THE EXCAVATION, THE CASING TOP MUST EXTEND TO THE FROST BREAK CASING.
- LITTLE SILT CONTENT. NO CLAY OR ORGANICS MAY BE USED IN THE BACKFILL MATERIAL.
- THE PILE MUST BE INSTALLED TO THE FULL DEPTH INDICATED. PILES NOT DRIVEN TO FULL DEPTH ARE CONSIDERED FAILED AND THE CONCRETE OPTION MUST BE UTILIZED.
- THE CASING MUST BE FILLED WITH THE SAME FILL MATERIAL AFTER THE PILE IS INSTALLED TO THE CORRECT DEPTH.
- THE FILL SHALL BE FORMED IN A WAY TO DIRECT WATER AWAY FROM THE PILE.
- IF THE CASING IS AFFECTED BY FROST HEAVE, THE CASING SHALL BE ATTEMPTED TO BE RE-EMBEDDED TO THE PROPER DEPTH IN ORDER TO PROTECT THE C-PILE FROM FUTURE FROST HEAVE.

**403** NOT TO SCALE  
**FULLY DRIVEN PILE**  
 (ALTERNATE OPTION)

FOUNDATION 403: FULLY DRIVEN PILE. FOUNDATION MUST BE EXCAVATED WITH LITTLE TO NO LOOSE MATERIAL IN THE BOTTOM.

- IF THE FOUNDATION IS BELOW THE GROUND WATER LEVEL, THERE MUST BE A TEMPORARY CASING IN PLACE TO STABILIZE THE EXCAVATION.
- AROUND THE CASING, THE PILE MUST BE CENTERED IN THE HOLE WITH EQUAL AMOUNTS OF CONCRETE.
- CONCRETE SHALL CONFORM TO THE CONCRETE SPECIFICATIONS LISTED ON SHEET DR-100.
- THE TOP OF THE CONCRETE MUST BE ABOVE GRADE.
- UNIRAC C-PILES AS DEPICTED IN THE FIGURE.

NOTE: FOR PILE QUANTITY BASED ON TABLE SIZE. SEE TABLES ON THE STATE SPECIFIC CERTIFICATION LETTER. ALSO FOR PILE EMBEDMENT DEPTH AND TOTAL PILE LENGTH, SEE TABLES ON STATE SPECIFIC CERTIFICATION LETTER.

FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS			FROST DEPTH = 5.0 FT		
		DIAMETER "A"	LENGTH "B"	DEPTH "C"	DIAMETER "A"	LENGTH "B"	DEPTH "C"
FULL CAST IN-PLACE CONCRETE	400	8'-0"	---	---	8'-0"	---	---
CAST IN-PLACE CONCRETE WITH FROST BREAK	401	8'-0"	---	---	8'-0"	---	---
PARTIAL DRIVEN PILE WITH FROST BREAK	402	---	10'-0"	---	---	5'-0"	---
FULLY DRIVEN PILE	403	---	---	10'-0"	---	---	10'-0"

\*SHALLOWER PILE EMBEDMENT MAY BE USED IF APPROVED BY A GEOTECHNICAL ENGINEER.

FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS			FROST DEPTH = 5.0 FT		
		DIAMETER "A"	LENGTH "B"	DEPTH "C"	DIAMETER "A"	LENGTH "B"	DEPTH "C"
FULL CAST IN-PLACE CONCRETE	400	6'-0"	---	---	6'-0"	---	---
CAST IN-PLACE CONCRETE WITH FROST BREAK	401	6'-0"	---	---	6'-0"	---	---
PARTIAL DRIVEN PILE WITH FROST BREAK	402	---	5'-0"	---	---	5'-0"	---
FULLY DRIVEN PILE	403	---	---	5'-0"	---	---	5'-0"

\*SHALLOWER PILE EMBEDMENT MAY BE USED IF APPROVED BY A GEOTECHNICAL ENGINEER.

FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS			FROST DEPTH = 5.0 FT		
		DIAMETER "A"	LENGTH "B"	DEPTH "C"	DIAMETER "A"	LENGTH "B"	DEPTH "C"
FULL CAST IN-PLACE CONCRETE	400	6'-0"	---	---	6'-0"	---	---
CAST IN-PLACE CONCRETE WITH FROST BREAK	401	6'-0"	---	---	6'-0"	---	---
PARTIAL DRIVEN PILE WITH FROST BREAK	402	---	5'-0"	---	---	5'-0"	---
FULLY DRIVEN PILE	403	---	---	5'-0"	---	---	5'-0"

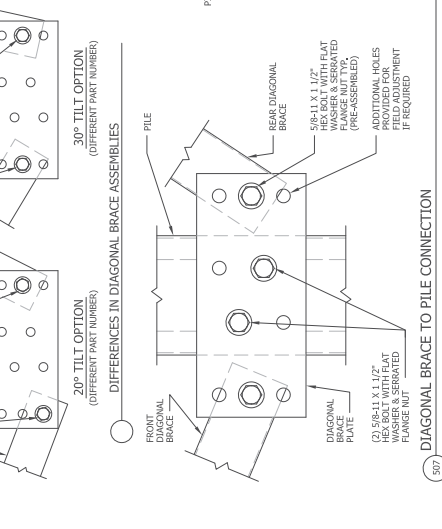
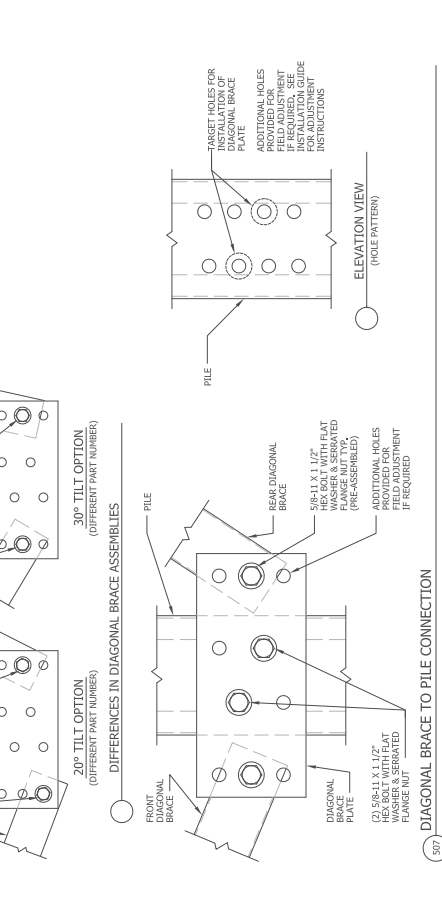
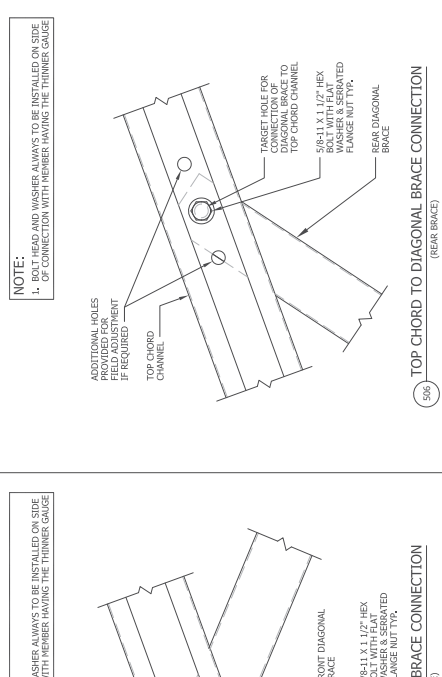
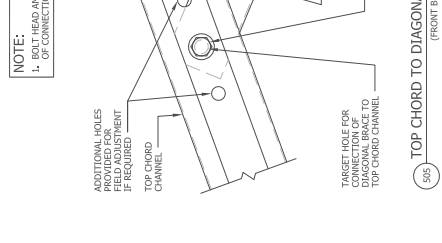
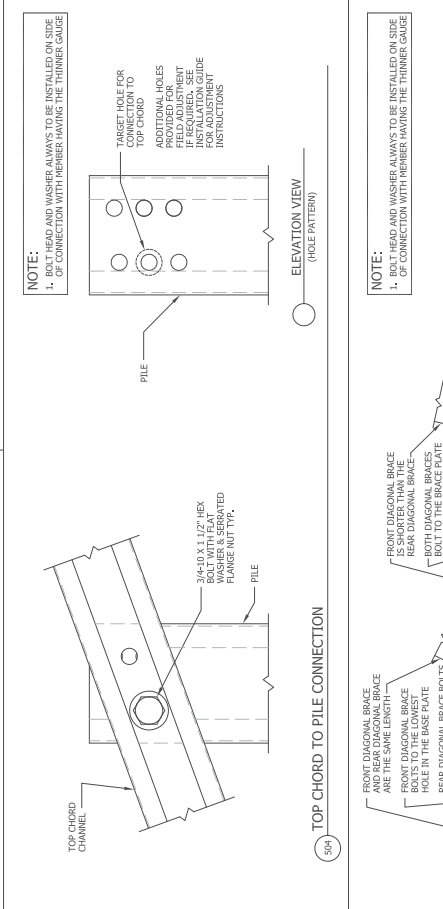
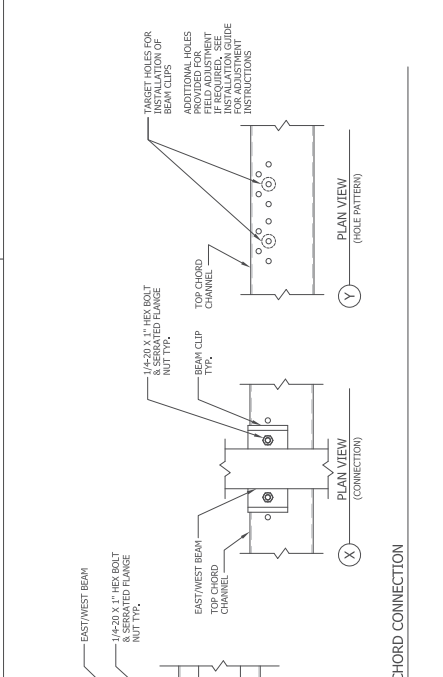
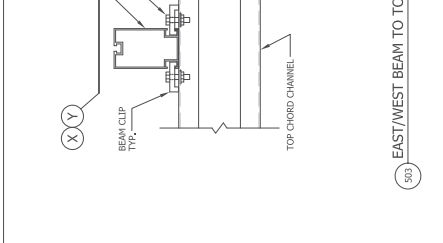
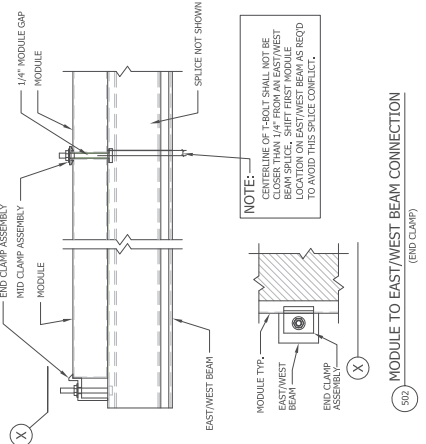
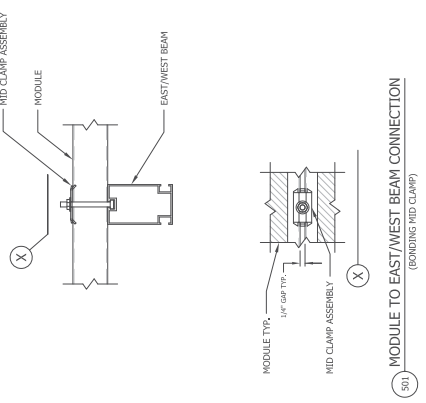
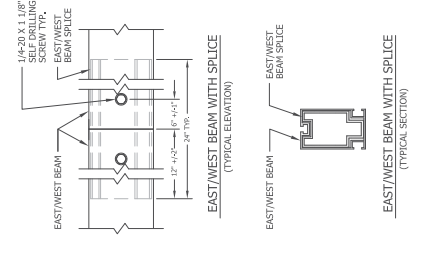
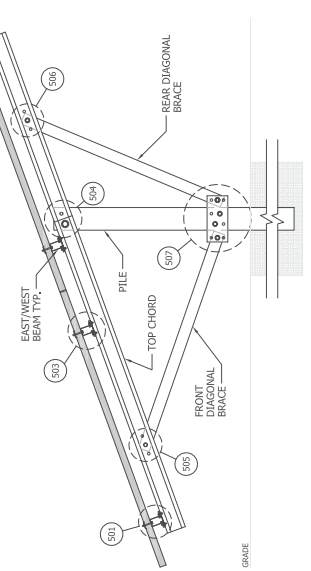
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FOUNDATION TYPE	DETAIL NUMBER	FROST DEPTH = 3.5 FT OR LESS			FROST DEPTH = 5.0 FT		
		DIAMETER "A"	LENGTH "B"	DEPTH "C"	DIAMETER "A"	LENGTH "B"	DEPTH "C"
FULL CAST IN-PLACE CONCRETE	400	6'-0"	---	---	6'-0"	---	---
CAST IN-PLACE CONCRETE WITH FROST BREAK	401	6'-0"	---	---	6'-0"	---	---
PARTIAL DRIVEN PILE WITH FROST BREAK	402	---	5'-0"	---	---	5'-0"	---
FULLY DRIVEN PILE	403	---	---	5'-0"	---	---	5'-0"

\*SHALLOWER PILE EMBEDMENT MAY BE USED IF APPROVED BY A GEOTECHNICAL ENGINEER.

**RACKING DETAIL NOTES:**

- SEE INSTALLATION GUIDE FOR PILE TOLERANCES
- SEE INSTALLATION GUIDE FOR CONNECTION ADJUSTMENT INSTRUCTIONS
- SEE INSTALLATION GUIDE FOR INSTRUCTIONS TO SCALE
- DETAILS SEEN ON THIS SHEET ARE NOT DRAWN TO SCALE



**UNIRAC**

1411 Broadway Boulevard NE  
 Albuquerque, New Mexico 87102  
 Phone: (505) 242-4842  
 Fax: (505) 242-4842  
 www.unirac.com

PROJECT NUMBER:	DATE:
PROJECT NAME:	SCALE:
DRAWING TITLE:	DATE:
DRAWING NUMBER:	DATE:
DESIGNED BY:	DATE:
CHECKED BY:	DATE:
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:

**RACKING DETAILS**

**SD-500**

5 of 5

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 CERTIFICATION  
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**ENGINEERING CONSULTANT:**  
 Design Optimization Technologies  
 424 Jefferson Street  
 Albuquerque, NM 87102  
 Phone: (505) 724-8872  
 www.dotechengineering.com

**REVISION BLOCK**

NO.	DATE	DESCRIPTION
1	10/17/19	PILE & BRACE DIMENSIONS
2	11/14/19	BEAM SPLICE
3	1/6/20	BEAM SPLICE
4	2/12/20	BEAM SPLICE & END CLAMP
5	2/12/20	UPDATED LINE TYPES