



**Joe Shirley, Jr.**  
**Chairman, District I**

**Alton Joe Shepherd**  
**Supervisor, District II**

**Doyel Shamley**  
**Vice Chairman, District III**

**NOTICE OF PUBLIC MEETING AND AGENDA OF  
THE APACHE COUNTY BOARD OF SUPERVISORS**

**October 17, 2017**

**Board of Supervisors' Hearing Room, First Floor**

**75 West Cleveland Street**

**St. Johns, Arizona**

**8:30 a.m. MST**

Invocation by Invitation.  
Pledge of Allegiance.

1. County Manager: Discussion and possible approval of **CONSENT ITEMS**: All items indicated by an asterisk (\*) will be handled by a single vote as part of the consent agenda, unless a Board Member or the County Manager objects at the time the agenda item is called.

**County Manager/Clerk of the Board:**

- \*A. Request approval of demands as distributed to the Apache County Board of Supervisors between October 3, 2017 to October 17, 2017. Demands are payments made, or to be made, by the County. Specific details of the demands may be requested through the County public record request process.
- \*B. Request approval of minutes dated September 19, 2017.

**Personnel Items:**

- \*C. Building & Maintenance: Request approval to extend the temporary employment of Lane Wilkins for an additional 90 days.

## **Community Development:**

\*D. Discussion and possible approve of a conditional use permit allowing Navopache Electric Cooperative, LLC (NEC) to construct a 240' steel lattice communication tower, replacing an existing 40' steel monopole communication tower. The tower is located on private property in the new sub-station located within the Tucson Electric Power (TEP) Springerville Generating sub-station Township: 11, Range: 30, Section: 34. The Planning and Zoning commission unanimously approved the Conditional Use Permit on September 14, 2017.

## **Treasurer's Office:**

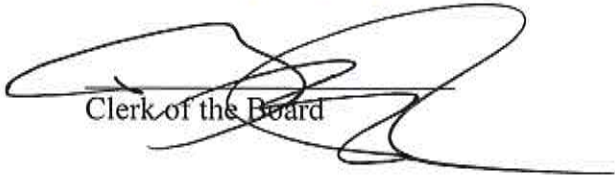
\*E. Discussion and possible approval of settlement stipulation, to abate interest of one hundred twenty dollars and 38 cents (\$120.38) and collect the levied tax charge of two hundred seventy-three dollars and 58 cents. (\$273.58) on parcel 105-18-025C/Account P9650135 for year of 2014.

2. Community Development: Discussion and possible approval to reduce the \$500 Conditional Use Permit application fee for Holly Williams to install a 60' ham radio tower on her property.
3. Emergency Management: Discussion and possible approval of the updated Hazardous Mitigation Plan. A copy of the plan is available on the County website or in the County Manager's Office.
4. Emergency Management: Discussion and possible approval to accept an Emergency Management Performance Grant award (number EMF-2017-EP-00008-S01) of two hundred two thousand, nine hundred eighty-six dollars (\$202,986.00) from the Arizona Department of Emergency & Military Affairs, Division of Emergency Management. This grant has a cost share of 50% federal funds and 50% local funds on all eligible expenditures. The grant performance period is July 1, 2017 through June 30, 2018.
5. County Manager: Discussion and possible approval of a contract with Realauction.com, LLC to conduct the sale of Tax Deed Property via an online auction.
6. County Manager: Discussion and possible approval of the back-tax parcels to be offered at public auction.
7. Notification of a tour of the Tucson Electric Power Plant, 1200 County Road #4162, Springerville, Arizona, following the Board meeting at approximately 10:30 a.m. on October 17, 2017. The County Supervisors Association Summit to be held at the Talking Stick Resort, 9800 E. Talking Stick Way, Scottsdale, Arizona on October 24, 2017 through October 26, 2017, and the Northern Arizona Council of Governments (NACOG) meeting on October 26, 2017 at 9:00 a.m. at the High Country Conference Center, 201 West Butler Avenue, Flagstaff, Arizona where two or more members of the Board of Supervisors may be in attendance.

8. Call to the Public: Individuals may address the Board on any relevant issue for an amount of time determined by the Chairman. At the close of the call to the public, Board members may not respond to any comments but may respond to criticism, ask staff to review a matter, or ask that a matter be placed on a future agenda.

*Pursuant to the Americans with Disabilities Act, the Apache County Board of Supervisors endeavors to ensure the accessibility of its meetings to all persons with disabilities. If you need an accommodation for a meeting, please contact the Clerk of the Board's office at (928)337-7503, TDD (928)-337-4402 at least 48 hours prior to the meeting (not including weekends or holidays) so that an accommodation can be arranged. One or more members of the Board of Supervisors may participate telephonically or through video communication.*

Posted 10/12/17 at 11:30 a.m. p.m. by BB

  
Clerk of the Board

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager

Date/Signature: \_\_\_\_\_



Describe in detail what you want to say to the Board and what action you want the Board to take:

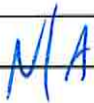
Request approval of demands as distributed to the Apache County Board of Supervisors between October 3, 2017 to October 17, 2017. Demands are payments made, or to be made, by the County. Specific details of the demands may be requested through the County public record request process.

BOS Meeting Date Requested 10/17/17

PRE-AGENDA ITEM REVIEW

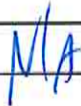
Legal Review: \_\_\_\_\_

Signature \_\_\_\_\_



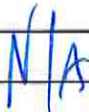
Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_



Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

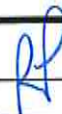


Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda.

Board Clerk's Initials \_\_\_\_\_



Status	Bank Account	Type	Number	Payment Date	Source	Payee	Amount
Open	NBAZ - Warrant Clearing Account	Check	1058624	10/03/2017	Accounts Payable	AMERICAN FAMILY LIFE ASSURANCE	1,019.06
Open	NBAZ - Warrant Clearing Account	Check	1058625	10/03/2017	Accounts Payable	APACHE COUNTY FSA	225.21
Open	NBAZ - Warrant Clearing Account	Check	1058626	10/03/2017	Accounts Payable	APACHE COUNTY HSA	3,196.67
Open	NBAZ - Warrant Clearing Account	Check	1058627	10/03/2017	Accounts Payable	APACHE COUNTY MEDICAL	163,471.60
Open	NBAZ - Warrant Clearing Account	Check	1058628	10/03/2017	Accounts Payable	APACHE COUNTY TAX WITHHOLDING	142,116.02
Open	NBAZ - Warrant Clearing Account	Check	1058629	10/03/2017	Accounts Payable	APACHE COUNTY TREASURER	0.01
Open	NBAZ - Warrant Clearing Account	Check	1058630	10/03/2017	Accounts Payable	ASRS LEGACY EORP	1,089.96
Open	NBAZ - Warrant Clearing Account	Check	1058631	10/03/2017	Accounts Payable	AZ DEPT OF REVENUE	53.08
Open	NBAZ - Warrant Clearing Account	Check	1058632	10/03/2017	Accounts Payable	AZ STATE RETIREMENT SYSTEM	97,212.96
Open	NBAZ - Warrant Clearing Account	Check	1058633	10/03/2017	Accounts Payable	CALIFORNIA STATE DISBURSEMENT UNIT	222.00
Open	NBAZ - Warrant Clearing Account	Check	1058634	10/03/2017	Accounts Payable	CINCINNATI LIFE INS CO	28.00
Open	NBAZ - Warrant Clearing Account	Check	1058635	10/03/2017	Accounts Payable	COLONIAL LIFE AND ACCIDENT INS	1,253.54
Open	NBAZ - Warrant Clearing Account	Check	1058636	10/03/2017	Accounts Payable	CORRECTIONS OFFICER RET PLAN	6,825.37
Open	NBAZ - Warrant Clearing Account	Check	1058637	10/03/2017	Accounts Payable	CORRECTIONS OFFICER RETIREMENT PLAN 520	5,048.39
Open	NBAZ - Warrant Clearing Account	Check	1058638	10/03/2017	Accounts Payable	EODCRS DISABILITY	18.42
Open	NBAZ - Warrant Clearing Account	Check	1058639	10/03/2017	Accounts Payable	EORP LEGACY	1,288.26
Open	NBAZ - Warrant Clearing Account	Check	1058640	10/03/2017	Accounts Payable	FAMILY SUPPORT REGISTRY	129.00
Open	NBAZ - Warrant Clearing Account	Check	1058641	10/03/2017	Accounts Payable	GURSTEL LAW FIRM PC	128.88
Open	NBAZ - Warrant Clearing Account	Check	1058642	10/03/2017	Accounts Payable	INTERNAL REVENUE SERVICE	339.31
Open	NBAZ - Warrant Clearing Account	Check	1058643	10/03/2017	Accounts Payable	NATIONWIDE	1,955.00
Open	NBAZ - Warrant Clearing Account	Check	1058644	10/03/2017	Accounts Payable	NATIONWIDE RETIREMENT SOL EODCRS	1,030.62
Open	NBAZ - Warrant Clearing Account	Check	1058645	10/03/2017	Accounts Payable	NATIONWIDE TRUST FSB	767.00
Open	NBAZ - Warrant Clearing Account	Check	1058646	10/03/2017	Accounts Payable	NEW MEXICO HUMAN SERVICES DEPT	185.50
Open	NBAZ - Warrant Clearing Account	Check	1058647	10/03/2017	Accounts Payable	PUBLIC SAFETY PERSONNEL 401	7,699.10
Open	NBAZ - Warrant Clearing Account	Check	1058648	10/03/2017	Accounts Payable	PUBLIC SAFETY SHERIFF RET	41,625.17
Open	NBAZ - Warrant Clearing Account	Check	1058649	10/03/2017	Accounts Payable	RIO PUERCO ACRES	495.00
Open	NBAZ - Warrant Clearing Account	Check	1058650	10/03/2017	Accounts Payable	SECURITY BENEFIT GROUP	1,550.00
Open	NBAZ - Warrant Clearing Account	Check	1058651	10/03/2017	Accounts Payable	SUPPORT PAYMENT CLEARINGHOUSE	1,942.90
Open	NBAZ - Warrant Clearing Account	Check	1058731	10/04/2017	Accounts Payable	KING SOOPERS	3.51
Open	NBAZ - Warrant Clearing Account	Check	1058811	10/04/2017	Accounts Payable	WHITE MOUNTAIN PUBLISHING CO	4.72
Open	NBAZ - Warrant Clearing Account	Check	1058700	10/04/2017	Accounts Payable	FRONTIER	5.19
Open	NBAZ - Warrant Clearing Account	Check	1058712	10/04/2017	Accounts Payable	GALLUP LUMBER & SUPPLY	9.56
Open	NBAZ - Warrant Clearing Account	Check	1058799	10/04/2017	Accounts Payable	UDALL, SHERWOOD BOWEN	19.60
Open	NBAZ - Warrant Clearing Account	Check	1058797	10/04/2017	Accounts Payable	TSOSIE, RAYMOND	20.00
Open	NBAZ - Warrant Clearing Account	Check	1058796	10/04/2017	Accounts Payable	TSO, THOMAS C	21.97
Open	NBAZ - Warrant Clearing Account	Check	1058782	10/04/2017	Accounts Payable	SPARKLETTS WATER	23.66
Open	NBAZ - Warrant Clearing Account	Check	1058704	10/04/2017	Accounts Payable	FRONTIER	25.48
Open	NBAZ - Warrant Clearing Account	Check	1058788	10/04/2017	Accounts Payable	TEEC NOS POS TRADING CO	30.00
Open	NBAZ - Warrant Clearing Account	Check	1058807	10/04/2017	Accounts Payable	WASTE MANAGEMENT OF AZ	35.45
Open	NBAZ - Warrant Clearing Account	Check	1058660	10/04/2017	Accounts Payable	ASPEN TIRE & OIL	36.48
Open	NBAZ - Warrant Clearing Account	Check	1058684	10/04/2017	Accounts Payable	CHEVRON USA INC	46.56
Open	NBAZ - Warrant Clearing Account	Check	1058784	10/04/2017	Accounts Payable	ST JOHNS UNITED DRUG	47.33
Open	NBAZ - Warrant Clearing Account	Check	1058673	10/04/2017	Accounts Payable	BLUE HILLS ENVIRONMENTAL	48.00

Status	Bank Account	Type	Number	Payment Date	Source	Payee	Amount
Open	NBAZ - Warrant Clearing Account	Check	1058658	10/04/2017	Accounts Payable	ARVISO, OLIVER	52.00
Open	NBAZ - Warrant Clearing Account	Check	1058703	10/04/2017	Accounts Payable	FRONTIER	56.67
Open	NBAZ - Warrant Clearing Account	Check	1058754	10/04/2017	Accounts Payable	NAVAJO WESTERNERS	57.58
Open	NBAZ - Warrant Clearing Account	Check	1058814	10/04/2017	Accounts Payable	WHITING, MANDY LYNN	61.00
Open	NBAZ - Warrant Clearing Account	Check	1058735	10/04/2017	Accounts Payable	MACGREGOR, ANNE T	61.90
Open	NBAZ - Warrant Clearing Account	Check	1058688	10/04/2017	Accounts Payable	DEDMAN, JOSEPH Junior	65.00
Open	NBAZ - Warrant Clearing Account	Check	1058656	10/04/2017	Accounts Payable	AMAZON CAPITAL SERVICES INC (IT DEPT)	66.37
Open	NBAZ - Warrant Clearing Account	Check	1058709	10/04/2017	Accounts Payable	FRONTIER	67.96
Open	NBAZ - Warrant Clearing Account	Check	1058682	10/04/2017	Accounts Payable	CDMC ENTERPRISES	70.40
Open	NBAZ - Warrant Clearing Account	Check	1058670	10/04/2017	Accounts Payable	BEGAY, SARAH MAE	75.00
Open	NBAZ - Warrant Clearing Account	Check	1058812	10/04/2017	Accounts Payable	WHITE MOUNTAIN REGIONAL MEDICAL CENTER	75.00
Open	NBAZ - Warrant Clearing Account	Check	1058756	10/04/2017	Accounts Payable	NOEL'S INC	77.00
Open	NBAZ - Warrant Clearing Account	Check	1058720	10/04/2017	Accounts Payable	HEART CENTERED COUNSELING INC	80.00
Open	NBAZ - Warrant Clearing Account	Check	1058664	10/04/2017	Accounts Payable	BASHAS' CORPORATE OFFICE	80.62
Open	NBAZ - Warrant Clearing Account	Check	1058764	10/04/2017	Accounts Payable	PES SAFE KIDS TESTING OFFICE	85.00
Open	NBAZ - Warrant Clearing Account	Check	1058705	10/04/2017	Accounts Payable	FRONTIER	100.69
Open	NBAZ - Warrant Clearing Account	Check	1058680	10/04/2017	Accounts Payable	BURNHAM MORTUARY	103.65
Open	NBAZ - Warrant Clearing Account	Check	1058810	10/04/2017	Accounts Payable	WENGERT, DELWIN	103.79
Open	NBAZ - Warrant Clearing Account	Check	1058713	10/04/2017	Accounts Payable	GENES FRAME & ALIGNMENT INC	107.63
Open	NBAZ - Warrant Clearing Account	Check	1058729	10/04/2017	Accounts Payable	IMPACT TELECOM	118.17
Open	NBAZ - Warrant Clearing Account	Check	1058667	10/04/2017	Accounts Payable	BEACON FIRE AND SECURITY LLC	119.00
Open	NBAZ - Warrant Clearing Account	Check	1058689	10/04/2017	Accounts Payable	DIRECTV LLC	125.97
Open	NBAZ - Warrant Clearing Account	Check	1058662	10/04/2017	Accounts Payable	AZ DEPT OF CORRECTIONS	135.00
Open	NBAZ - Warrant Clearing Account	Check	1058663	10/04/2017	Accounts Payable	AZ FIDUCIARY ASSN	135.00
Open	NBAZ - Warrant Clearing Account	Check	1058791	10/04/2017	Accounts Payable	THE POUR STATION	135.00
Open	NBAZ - Warrant Clearing Account	Check	1058789	10/04/2017	Accounts Payable	TERRY, MARVIN	147.66
Open	NBAZ - Warrant Clearing Account	Check	1058766	10/04/2017	Accounts Payable	RDO EQUIPMENT CO	149.38
Open	NBAZ - Warrant Clearing Account	Check	1058769	10/04/2017	Accounts Payable	ROBERTS TIRE SALES INC	159.86
Open	NBAZ - Warrant Clearing Account	Check	1058721	10/04/2017	Accounts Payable	HERNANDEZ, ALTA L	160.00
Open	NBAZ - Warrant Clearing Account	Check	1058697	10/04/2017	Accounts Payable	FRONTIER	163.81
Open	NBAZ - Warrant Clearing Account	Check	1058698	10/04/2017	Accounts Payable	FRONTIER	164.99
Open	NBAZ - Warrant Clearing Account	Check	1058701	10/04/2017	Accounts Payable	FRONTIER	167.32
Open	NBAZ - Warrant Clearing Account	Check	1058734	10/04/2017	Accounts Payable	LEE, MAXINE	177.60
Open	NBAZ - Warrant Clearing Account	Check	1058681	10/04/2017	Accounts Payable	BUTLER'S OFFICE EQUIPMENT & SUPPLY INC	185.46
Open	NBAZ - Warrant Clearing Account	Check	1058760	10/04/2017	Accounts Payable	PATTERSON, DENNIELLE	189.36
Open	NBAZ - Warrant Clearing Account	Check	1058801	10/04/2017	Accounts Payable	UNITED RENTALS	189.55
Open	NBAZ - Warrant Clearing Account	Check	1058817	10/04/2017	Accounts Payable	WOOD, ANTONIA	191.76
Open	NBAZ - Warrant Clearing Account	Check	1058775	10/04/2017	Accounts Payable	SEAN P WILSON MD	200.00
Open	NBAZ - Warrant Clearing Account	Check	1058722	10/04/2017	Accounts Payable	HILL AZ GROCERY STORE	201.85
Open	NBAZ - Warrant Clearing Account	Check	1058745	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 0127	204.53
Open	NBAZ - Warrant Clearing Account	Check	1058654	10/04/2017	Accounts Payable	ALL AWARDS	211.19
Open	NBAZ - Warrant Clearing Account	Check	1058706	10/04/2017	Accounts Payable	FRONTIER	214.83
Open	NBAZ - Warrant Clearing Account	Check	1058675	10/04/2017	Accounts Payable	BOWMAN, GLORIA	217.29

Status	Bank Account	Type	Number	Payment Date	Source	Payee	Amount
Open	NBAZ - Warrant Clearing Account	Check	1058757	10/04/2017	Accounts Payable	NORTH COUNTRY COMMUNITY HEALTH	217.50
Open	NBAZ - Warrant Clearing Account	Check	1058672	10/04/2017	Accounts Payable	BLACK DIAMOND AUTO GLASS II	217.74
Open	NBAZ - Warrant Clearing Account	Check	1058759	10/04/2017	Accounts Payable	OVERDRIVE INC	218.99
Open	NBAZ - Warrant Clearing Account	Check	1058762	10/04/2017	Accounts Payable	PENA, NATASHA	222.70
Open	NBAZ - Warrant Clearing Account	Check	1058707	10/04/2017	Accounts Payable	FRONTIER	225.91
Open	NBAZ - Warrant Clearing Account	Check	1058809	10/04/2017	Accounts Payable	WENGERT, DELWIN	229.52
Open	NBAZ - Warrant Clearing Account	Check	1058694	10/04/2017	Accounts Payable	ERHART, ANNA COLETTE	232.55
Open	NBAZ - Warrant Clearing Account	Check	1058665	10/04/2017	Accounts Payable	BAUMAN HOME AND AUTO INC	239.54
Open	NBAZ - Warrant Clearing Account	Check	1058794	10/04/2017	Accounts Payable	TOWN OF PAYSON	250.00
Open	NBAZ - Warrant Clearing Account	Check	1058702	10/04/2017	Accounts Payable	FRONTIER	266.29
Open	NBAZ - Warrant Clearing Account	Check	1058805	10/04/2017	Accounts Payable	VERNON DOMESTIC IMPROVEMENT	267.29
Open	NBAZ - Warrant Clearing Account	Check	1058763	10/04/2017	Accounts Payable	PERFECT PRINTZ LLC	270.00
Open	NBAZ - Warrant Clearing Account	Check	1058800	10/04/2017	Accounts Payable	UNIFIRST CORPORATION	270.84
Open	NBAZ - Warrant Clearing Account	Check	1058668	10/04/2017	Accounts Payable	BEGAY, CODY DON	279.32
Open	NBAZ - Warrant Clearing Account	Check	1058669	10/04/2017	Accounts Payable	BEGAY, DERRICK ALAN	279.32
Open	NBAZ - Warrant Clearing Account	Check	1058793	10/04/2017	Accounts Payable	TOTSONI, RAYMOND	279.32
Open	NBAZ - Warrant Clearing Account	Check	1058819	10/04/2017	Accounts Payable	YELLOWHORSE, DARON	279.32
Open	NBAZ - Warrant Clearing Account	Check	1058752	10/04/2017	Accounts Payable	NAVAJO SANITATION INC	288.75
Open	NBAZ - Warrant Clearing Account	Check	1058666	10/04/2017	Accounts Payable	BAZURTO, MALENA GENEVIEVE	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058674	10/04/2017	Accounts Payable	BOND, BETH	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058690	10/04/2017	Accounts Payable	DUGDALE, BEN	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058714	10/04/2017	Accounts Payable	GORDON, STEVEN H	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058715	10/04/2017	Accounts Payable	GREER, YVETTE L	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058725	10/04/2017	Accounts Payable	HOGLE, JONI C	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058728	10/04/2017	Accounts Payable	HOUNSHELL, BRIAN	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058730	10/04/2017	Accounts Payable	JOY, DAVID G	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058732	10/04/2017	Accounts Payable	LARRY TRAVIS HEAP	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058736	10/04/2017	Accounts Payable	MACKENZIE, ROBERT ANDREW	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058737	10/04/2017	Accounts Payable	MCCARTHY, CHRIS	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058739	10/04/2017	Accounts Payable	MONTIERTH, LEHI	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058740	10/04/2017	Accounts Payable	MOORE , ALANE M	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058770	10/04/2017	Accounts Payable	RUPP, ALEXANDRA NICOLA A	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058786	10/04/2017	Accounts Payable	STRADLING, CHERYL	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058813	10/04/2017	Accounts Payable	WHITING, GARRET LEE	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058822	10/04/2017	Accounts Payable	ZHELEV, IVAN D	300.00
Open	NBAZ - Warrant Clearing Account	Check	1058738	10/04/2017	Accounts Payable	MCCARTHY, STEPHANIE	306.65
Open	NBAZ - Warrant Clearing Account	Check	1058711	10/04/2017	Accounts Payable	GALLEGOS, OLIVIA SELENE	320.88
Open	NBAZ - Warrant Clearing Account	Check	1058743	10/04/2017	Accounts Payable	NACOG	325.00
Open	NBAZ - Warrant Clearing Account	Check	1058699	10/04/2017	Accounts Payable	FRONTIER	326.11
Open	NBAZ - Warrant Clearing Account	Check	1058778	10/04/2017	Accounts Payable	SHAMLEY, JOHN DOYEL	330.27
Open	NBAZ - Warrant Clearing Account	Check	1058781	10/04/2017	Accounts Payable	SIMSHAUSER, TRAVIS K	330.27
Open	NBAZ - Warrant Clearing Account	Check	1058655	10/04/2017	Accounts Payable	ALSCO INC	332.94
Open	NBAZ - Warrant Clearing Account	Check	1058691	10/04/2017	Accounts Payable	EMEDCO	334.18

Status	Bank Account	Type	Number	Payment Date	Source	Payee	Amount
Open	NBAZ - Warrant Clearing Account	Check	1058741	10/04/2017	Accounts Payable	MORGAN, DIANA M	336.00
Open	NBAZ - Warrant Clearing Account	Check	1058693	10/04/2017	Accounts Payable	EMPOWERMENT SYSTEMS INC	340.45
Open	NBAZ - Warrant Clearing Account	Check	1058761	10/04/2017	Accounts Payable	PATTERSON, RYAN N	351.34
Open	NBAZ - Warrant Clearing Account	Check	1058783	10/04/2017	Accounts Payable	SPEEDY SALES AND SERVICE	367.50
Open	NBAZ - Warrant Clearing Account	Check	1058808	10/04/2017	Accounts Payable	WAUNIKA, EDISON JAMES	377.17
Open	NBAZ - Warrant Clearing Account	Check	1058696	10/04/2017	Accounts Payable	FOUR CORNERS WELDING & GAS SUPPLY	384.82
Open	NBAZ - Warrant Clearing Account	Check	1058821	10/04/2017	Accounts Payable	YOUNGS FUTURE TIRE	385.28
Open	NBAZ - Warrant Clearing Account	Check	1058727	10/04/2017	Accounts Payable	HOUNSHELL, ANNELL R	386.00
Open	NBAZ - Warrant Clearing Account	Check	1058806	10/04/2017	Accounts Payable	WAITE , DELANA	386.00
Open	NBAZ - Warrant Clearing Account	Check	1058723	10/04/2017	Accounts Payable	HILL AZ GROCERY STORE	388.45
Open	NBAZ - Warrant Clearing Account	Check	1058679	10/04/2017	Accounts Payable	BURNHAM MORTUARY	395.00
Open	NBAZ - Warrant Clearing Account	Check	1058716	10/04/2017	Accounts Payable	GUINN, ADA C	403.32
Open	NBAZ - Warrant Clearing Account	Check	1058767	10/04/2017	Accounts Payable	RIVERA, REBECCA	418.50
Open	NBAZ - Warrant Clearing Account	Check	1058772	10/04/2017	Accounts Payable	SANDOVAL, PATRICK J	448.46
Open	NBAZ - Warrant Clearing Account	Check	1058785	10/04/2017	Accounts Payable	STALLINGS, YVONNE (BONNIE) L	475.18
Open	NBAZ - Warrant Clearing Account	Check	1058755	10/04/2017	Accounts Payable	NAVOPACHE ELECTRIC COOPERATIVE	484.45
Open	NBAZ - Warrant Clearing Account	Check	1058718	10/04/2017	Accounts Payable	HANCOCK, PAUL	485.90
Open	NBAZ - Warrant Clearing Account	Check	1058749	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 0202	486.84
Open	NBAZ - Warrant Clearing Account	Check	1058657	10/04/2017	Accounts Payable	AMERICAS BEST VALUE INN	498.26
Open	NBAZ - Warrant Clearing Account	Check	1058823	10/04/2017	Accounts Payable	PEREZ, CRESPIAN O	500.00
Open	NBAZ - Warrant Clearing Account	Check	1058758	10/04/2017	Accounts Payable	OFFICE DEPOT	512.83
Open	NBAZ - Warrant Clearing Account	Check	1058686	10/04/2017	Accounts Payable	CRESCENT ELECTRIC SUPPLY CO	517.92
Open	NBAZ - Warrant Clearing Account	Check	1058719	10/04/2017	Accounts Payable	HAUSER, DALE L	548.30
Open	NBAZ - Warrant Clearing Account	Check	1058750	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 0285	551.18
Open	NBAZ - Warrant Clearing Account	Check	1058652	10/04/2017	Accounts Payable	AA BEDLINERS & MOORE	578.54
Open	NBAZ - Warrant Clearing Account	Check	1058671	10/04/2017	Accounts Payable	BILLS DISCOUNT AUTO PARTS (NAPA)	589.79
Open	NBAZ - Warrant Clearing Account	Check	1058803	10/04/2017	Accounts Payable	VARIDESK LLC	595.00
Open	NBAZ - Warrant Clearing Account	Check	1058717	10/04/2017	Accounts Payable	GUINN, RICHARD C	600.00
Open	NBAZ - Warrant Clearing Account	Check	1058779	10/04/2017	Accounts Payable	SHEPHERD, ALTON JOE	600.00
Open	NBAZ - Warrant Clearing Account	Check	1058816	10/04/2017	Accounts Payable	WILTBANK, GINGER A	652.22
Open	NBAZ - Warrant Clearing Account	Check	1058818	10/04/2017	Accounts Payable	WOODLAND BUILDING CENTER	671.49
Open	NBAZ - Warrant Clearing Account	Check	1058802	10/04/2017	Accounts Payable	VALLEY AUTO PARTS	711.35
Open	NBAZ - Warrant Clearing Account	Check	1058815	10/04/2017	Accounts Payable	WHITING, MICHAEL B	739.12
Open	NBAZ - Warrant Clearing Account	Check	1058768	10/04/2017	Accounts Payable	ROAN, VALERIE	755.80
Open	NBAZ - Warrant Clearing Account	Check	1058771	10/04/2017	Accounts Payable	RUSH TRUCK CENTER	809.72
Open	NBAZ - Warrant Clearing Account	Check	1058708	10/04/2017	Accounts Payable	FRONTIER	831.38
Open	NBAZ - Warrant Clearing Account	Check	1058744	10/04/2017	Accounts Payable	NAPA	873.87
Open	NBAZ - Warrant Clearing Account	Check	1058695	10/04/2017	Accounts Payable	ERNIES FIRE EXTINGUISHER	875.00
Open	NBAZ - Warrant Clearing Account	Check	1058747	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 1587	982.77
Open	NBAZ - Warrant Clearing Account	Check	1058661	10/04/2017	Accounts Payable	AZ BRAKE & CLUTCH SUPPLY	1,009.12
Open	NBAZ - Warrant Clearing Account	Check	1058687	10/04/2017	Accounts Payable	CURTIS, ROGER STUART	1,032.00
Open	NBAZ - Warrant Clearing Account	Check	1058776	10/04/2017	Accounts Payable	SECURUS TECHNOLOGIES INC	1,043.71
Open	NBAZ - Warrant Clearing Account	Check	1058780	10/04/2017	Accounts Payable	SHIRLEY, JOE Junior	1,108.15

Status	Bank Account	Type	Number	Payment Date	Source	Payee	Amount
Open	NBAZ - Warrant Clearing Account	Check	1058777	10/04/2017	Accounts Payable	SEQIRUS USA INC	1,134.29
Open	NBAZ - Warrant Clearing Account	Check	1058726	10/04/2017	Accounts Payable	HOME DEPOT	1,150.40
Open	NBAZ - Warrant Clearing Account	Check	1058653	10/04/2017	Accounts Payable	ADAIR FUNERAL HOMES INC	1,168.20
Open	NBAZ - Warrant Clearing Account	Check	1058753	10/04/2017	Accounts Payable	NAVAJO TRIBAL UTILITY AUTHORITY	1,224.34
Open	NBAZ - Warrant Clearing Account	Check	1058804	10/04/2017	Accounts Payable	VERIZON WIRELESS	1,257.61
Open	NBAZ - Warrant Clearing Account	Check	1058820	10/04/2017	Accounts Payable	YOUNG, JOSEPH	1,363.56
Open	NBAZ - Warrant Clearing Account	Check	1058678	10/04/2017	Accounts Payable	BURBANK, ROANN	1,527.24
Open	NBAZ - Warrant Clearing Account	Check	1058746	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 1389	1,601.45
Open	NBAZ - Warrant Clearing Account	Check	1058790	10/04/2017	Accounts Payable	THE LAW OFFICE OF ELIZABETH M HALE	1,676.40
Open	NBAZ - Warrant Clearing Account	Check	1058677	10/04/2017	Accounts Payable	BROWN'S PARTSMASER INC	1,852.79
Open	NBAZ - Warrant Clearing Account	Check	1058733	10/04/2017	Accounts Payable	LATHAM, MICHAEL	1,885.60
Open	NBAZ - Warrant Clearing Account	Check	1058685	10/04/2017	Accounts Payable	COVEY, JOSHUA T	2,100.00
Open	NBAZ - Warrant Clearing Account	Check	1058724	10/04/2017	Accounts Payable	HILLYARD/FLAGSTAFF	2,236.41
Open	NBAZ - Warrant Clearing Account	Check	1058748	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 0085	2,619.95
Open	NBAZ - Warrant Clearing Account	Check	1058742	10/04/2017	Accounts Payable	MOUNTAIN COMFORT HEATING AND COOLING	2,754.50
Open	NBAZ - Warrant Clearing Account	Check	1058751	10/04/2017	Accounts Payable	NATIONAL BANK OF ARIZONA 0301	2,764.35
Open	NBAZ - Warrant Clearing Account	Check	1058787	10/04/2017	Accounts Payable	SW ECOLOGY LLC	2,830.76
Open	NBAZ - Warrant Clearing Account	Check	1058683	10/04/2017	Accounts Payable	CDW GOVERNMENT LLC	3,157.64
Open	NBAZ - Warrant Clearing Account	Check	1058792	10/04/2017	Accounts Payable	TJP COMMUNICATIONS	3,789.42
Open	NBAZ - Warrant Clearing Account	Check	1058773	10/04/2017	Accounts Payable	SANOFI PASTEUR INC	4,015.07
Open	NBAZ - Warrant Clearing Account	Check	1058765	10/04/2017	Accounts Payable	QUILL CORP	4,332.49
Open	NBAZ - Warrant Clearing Account	Check	1058659	10/04/2017	Accounts Payable	ASHTONS REPAIR INC	4,460.65
Open	NBAZ - Warrant Clearing Account	Check	1058710	10/04/2017	Accounts Payable	FRONTIER	4,463.87
Open	NBAZ - Warrant Clearing Account	Check	1058774	10/04/2017	Accounts Payable	SCHINDLER ELEVATOR CORPORATION	6,570.14
Open	NBAZ - Warrant Clearing Account	Check	1058798	10/04/2017	Accounts Payable	TYCO INTEGRATED SECURITY LLC	11,878.46
Open	NBAZ - Warrant Clearing Account	Check	1058795	10/04/2017	Accounts Payable	TRINITY SERVICES GROUP INC	14,668.11
Open	NBAZ - Warrant Clearing Account	Check	1058692	10/04/2017	Accounts Payable	EMPIRE MACHINERY	19,564.20
Open	NBAZ - Warrant Clearing Account	Check	1058676	10/04/2017	Accounts Payable	BRADCO	21,831.93

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager

Date/Signature: \_\_\_\_\_



Describe in detail what you want to say to the Board and what action you want the Board to take:

Request approval of minutes dated September 19, 2017.

BOS Meeting Date Requested 10/17/17

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PRE-AGENDA ITEM REVIEW

Legal Review: \_\_\_\_\_

Signature \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda.

Board Clerk's Initials



OFFICIAL PROCEEDINGS OF THE APACHE COUNTY  
BOARD OF SUPERVISORS MEETING

September 19, 2017  
St. Johns, Arizona

Present were: Chairman Joe Shirley, Jr., Vice Chairman Doyel Shamley and Supervisor Alton Joe Shepherd. Also present were County Manager/Clerk of the Board Delwin Wengert and County Attorney Michael Whiting.

Chairman Shirley called to order the Board of Supervisors meeting at 8:32 a.m. in the Board of Supervisors chambers, County Annex Building, 75 West Cleveland Street, St. Johns, Arizona, and welcomed all in attendance.

Angela Romero the Pledge of Allegiance.

Chris Sexton gave the invocation.

Supervisor Shamley introduced Ms. Johns and Delegate Smith from the Sanders and Lupton areas of District III and thanked them for their attendance.

Chairman Shirley called for the Apache County Public Health Services District items.

Chris Sexton, Health Director, requested approval Intergovernmental Agreement #ADHS18-177674 Immunization Services that provide immunization related services for Apache County in the amount of fifty thousand dollars (\$50,000). This grant has been budgeted for in FY18 and requires no matching funds. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** Vote was unanimous.

Chris Sexton, Health Director, requested approval of the Agreement between Apache County Public Health Services District, the Arizona Local Government Employee Benefit Trust (AZLGEBT) and the Rural Arizona Health Group Trust (RAHGT) to provide flu and pneumonia vaccines and services. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** Vote was unanimous.

**Mr. Shamley moved to adjourn the Public Health Services District meeting, seconded by Mr. Shepherd.** Vote was unanimous.

Chairman Shirley called for the Library District items.

SueAn Collins-Stradling requested approval to renew the agreement between the Arizona State Library, Archives and Public Records and Apache County Library District to specify the role each institution will play in supporting the statewide database package from July 1, 2017 through June 30, 2018. Our cost, based on county population, is eight thousand, three hundred sixty-two dollars and two cents (\$8,362.02). The Arizona State Library, Archives and Public Records contribution is four hundred five thousand, twelve dollars (\$405,012.00) towards these databases. Mrs. Collins-Stradling stated the assessed cost to the Library District

has been planned for in our budget. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** Vote was unanimous.

**Mr. Shamley moved to adjourn the Library District meeting, seconded by Mr. Shepherd.** Vote was unanimous.

Chairman Shirley called for the regular agenda items.

Devon Brown, Community Development Director, presented the items following a public hearing, discussion and possible approval of a division plat amendment allowing Karyl Carter to amend the Wilderness Subdivision Plat converting 10 lots into two lots. Lots 32, 33, 40, and 41 will become combined into one lot, and lots 34-39 will be combined into another lot. Property is located near Vernon, Arizona, A.P.N. 106-670-032 through 041 and the Planning and Zoning Commission unanimously approved the application on August 3, 2017 with the following condition: that this application be approved at the same time as the approval of the utility easement abandonment involving the same 10 lots. **Mr. Shamley moved to go into a public hearing, seconded by Mr. Shepherd.** Vote was unanimous. Ferrin Crosby stated the only easement inside the lots would be the greenbelt easements and the applicant may choose to abandon the greenbelt easements as well.

Dan Muth, a surveyor that caused the plat to be created for Mrs. Carter, stated the greenbelt easements were created as part of the plat, and the plat mentions them as easements but the CC&R's call them greenbelt areas and were set aside as building setbacks so property owners wouldn't build next to the property lines. Mr. Muth stated with the combination, that provisions were made with new adjusted lot lines along the street. Mr. Muth requested the interior individual greenbelts on the lots to be combined be dissolved so the new greenbelt along the road and interior lot line could be created for the plat.

There was no one else wanting to address the Board during call to the public. **Mr. Shepherd moved to close the public hearing, seconded by Mr. Shamley.** Vote was unanimous.

Ferrin Crosby, County Engineer, requested both the lot combination for Karyl Carter and the approval of an abandonment of 20 feet utility easement running south between utility easement on lots 32 through 41 of the Wilderness Subdivision. Mr. Crosby stated these 10 lots are too small for homes to be built on them, so the owner, Karyl Carter, is requesting to combine the 10 lots into 2 larger lots but the utility easement runs through the center of these combined lots, making it difficult to put a house anywhere on the property. There are no utilities built in the easement, and utility companies were notified of the proposed abandonment and have no objections and abandoning this easement will have no impact on other property owners. Property is located near Vernon, A.P.N 106-70-032 thru 041 in the Wilderness Subdivision. Mr. Crosby requested the approve the lot combination, the amended plat and the abandonment of the 20 foot utility easement and the interior lot line greenbelt easements and the greenbelt that splits the two resulting parcels would remain. **Mr. Shamley moved to approve both item 1 for the Engineering Department and item 2 for Community Development as stated by Mr. Crosby. Mr. Shepherd seconded the motion.** Vote was unanimous.

Mr. Wengert requested implementation of the Apache County Salary Study effective October 1, 2017. Mr. Wengert stated as directed by the Board of Supervisors, staff worked with Public Sector Consultants this past spring to come up with a salary study for the 397 county employees. Mr. Wengert stated the last salary study conducted was in 2002 and as part of this new study, the consultant looked at Gila, Graham, Greenlee, La Paz, Navajo and Santa Cruz Counties, the City of Eagar, the City of Pinetop-Lakeside, the City of Show Low and Town of Springerville and compared those employees to ours. Mr. Wengert stated due to the comparison of those towns and counties, he recommended raising employees into the new ranges. **Mr. Shamley moved approval, seconded by Mr. Shepherd.** Michael Whiting stated he repeatedly has asked Glenn Joy, with Human Resources to eliminate the position of Director of Victim Services which was removed by the Board of Supervisors in 2009 due to a federal lawsuit and has not been eliminated from the study. Mr. Whiting stated if the Board moves forward with the salary study, the Board needs to instruct Mr. Joy to remove the position from the county roles completely. Mr. Shepherd stated the Board had planned to hold a work session on this issue and one of the elements he is concerned with is the job descriptions as well as the Human Resources policy needs to be revamped. Mr. Shepherd stated if the salaries and funding are approved without addressing any changes to the job descriptions, or amending the Human Resources policy, that may cause problems. Mr. Shepherd stated he did meet with the consultant that did the salary study and they were only contracted to do the one part. Mr. Shepherd asked Mr. Wengert if this is approved for October 1, 2017, does everyone move into the recommended range and when will the other components he outlined be addressed. Mr. Wengert responded the proposal by the consultant is to raise the ranges of just about everyone in the county using the other agency comparisons and using the time and position factor to provide raises for many people. Mr. Wengert stated if the Board directed staff to look at all descriptions for every position in the county it would take the consultant about six months to review all the jobs in the county with additional costs involved. Mr. Wengert stated he is not sure how the future job descriptions would affect the current salary study; it would depend on if the job description changed significantly for a specific job, then it could change the pay. Mr. Wengert stated this would be another step in the salary study and would require about six months and cost considerably more cost to the consultant. Sheriff Dedman stated he would have liked to speak with the consultant because he has deputies that need their salaries evaluated. Michael Whiting, County Attorney, stated he would like a response from someone regarding how the salary increases would be funded. Mr. Wengert stated all departments have been reviewed and there are some departments that have enough room to handle the increases, and will use the general fund to accommodate those departments that do not have enough in their budgets to handle the increases. Mr. Whiting stated his and the sheriff's budgets are two of the largest and asked if the increases would come out of his budget for his staff. Mr. Shirley stated the increases would come from departments budgets if they can accommodate the increases and if not, the general fund would be used. Mr. Wengert stated the Sheriff's Office will need assistance to implement the salary study and Mr. Whiting's budget went up this year and will work with him directly. Mr. Wengert stated he will not allow this to hurt a department where they cannot operate; there is money set aside for these increases and if the Board would like a final report he will do that as well. Mr. Shamley stated the concern he has, is this has been in the works since May and there are a lot of deputies and road workers that need some help and the longer this is drawn out, the longer they are not getting help and we risk losing good talent and skill to other agencies, but he does not want to go forward without addressing what Mr. Shepherd expressed, and pulled his motion. Mr. Shepherd

stated we need to fine tune what was done, look at the Human Resources Policy Manual and accommodate and recognize time in position and those who have been here the longest. Mr. Shamley stated the version of the salary study has changed so many times he isn't comfortable with it, but we do need to put it on a fast track because employees are in need. Mr. Shepherd stated he supports the salary study and there are funds put aside to take the impact of the changes but he would like to see the other components addressed. Mr. Shepherd stated he isn't sure the consultant is needed for the job descriptions; each elected official or department head can review the job descriptions within their office and make those recommendations to the Board. Mr. Shirley stated he had hoped this salary study would be implemented today; the money is there, and the job descriptions can be taken on a case by case basis if there are some jobs that are in need of review but he does not believe all of the positions within the county are in need of a new description. Mr. Shirley stated the employees need to be treated fair and square and that is what the salary study is about, and would like to see it implemented and asked Mr. Shamley and Mr. Shepherd to reconsider their decision. **Mr. Shamley moved to approve the salary study with the position of Director of Victim Services removed.** Glenn Joy, Human Resources Technician stated the position will be removed shortly after the meeting is over. **Mr. Shepherd stated he hadn't withdrew his second, however the other components need to be put on the fast track to move forward with.** Mr. Shepherd stated the time in position recommendation didn't come up as part of the recommendation by the consultant so to fine tune and go forward; he understands employees that will benefit from it, but holistically, he would request Mr. Wengert address that going forward. Mr. Shepherd stated his second to Mr. Shamley 's motion stands. Mr. Shirley stated there is a motion and second to implement the salary study with the amendment to remove the position of Director of Victim's Services. Mr. Wengert stated there will be a work session coming up and we can clarify what exactly is needed for the individual positions that Mr. Shepherd has concerns with, and will then work with staff to make the needed changes. Vote was unanimous.

Chairman Shirley stated the Board needs to sit as the Board of Equalization. **Mr. Shamley moved to sit as the Board of Equalization, seconded by Mr. Shepherd.** Vote was unanimous. Mr. Wengert stated there were two Petitions for Review of Real Property heard by Hearing Officer Charles Johnson on August 23, 2017 and his determinations that were included tint eh backup material and recommended approval. Mr. Shirley asked if there was anyone who wanted to address the Board. There was no member of the public who wanted to address the Board. **Mr. Shamley moved to close the Board of Equalization, seconded by Mr. Shepherd.** Vote was unanimous. Mr. Shamley moved to approve the hearing determination of Petition for Review of Real Property Valuation for Roxanne Jetson, 106-68-008H and 106-68-008I. and determination of Petition for Review of real Property Valuation for Paul Smith, 205-31-004. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** Vote was unanimous.

Mr. Wengert presented the consent agenda items A-E. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** County Manager/Clerk of the Board: A. Request approval of demands as distributed to the Apache County Board of Supervisors between August 21, 2017 to September 5, 2017. Payee Amount AMAZON COM INC 4,526.95 APACHE COUNTY 4-H LEADERS COUNCIL 1,000.00 APACHE COUNTY SCHOOLS CONSORTIUM 58,920.00 ARIZONA ASSOCIATION OF CONSERVATION DISTRICTS 5,000.00 AZ DEPT OF HEALTH SERVICES 1,580.00 BOB BARKER COMPANY INC 2,243.39 BRADCO 2,705.49

CURTIS, ROGER STUART 1,167.78 ELECTIONS SYSTEMS AND SOFTWARE 2,560.39 FOUR CORNERS WELDING & GAS SUPPLY 4,565.57 GLAXO SMITHKLINE PHARMACY 1,182.80 GROWMAIL 1,577.85 HALL, STEVEN WAYNE 1,800.00 HOME DEPOT 1,491.45 JURY SYSTEMS INCORPORATED 1,500.00 KIMBALL EQUIPMENT COMPANY 2,208.27 MCKESSON MEDICAL SURGICAL 1,837.68 NATIONAL BANK OF ARIZONA 0127 1,476.95 NATIONAL BANK OF ARIZONA 0085 2,365.90 NATIONAL BANK OF ARIZONA 0186 2,582.78 NATIONAL BANK OF ARIZONA 0301 1,303.24 OVERDRIVE INC 1,446.72 QUILL CORP 2,848.97 SAFE RESTRAINTS INC 1,362.12 SECURUS TECHNOLOGIES INC 2,631.04 TJP COMMUNICATIONS 1,244.11 TRINITY SERVICES GROUP INC 15,176.65 YOUNGS FUTURE TIRE 11,082.20 AMERICAN FAMILY LIFE ASSURANCE 1,085.03 APACHE COUNTY HSA 3,246.67 APACHE COUNTY MEDICAL 161,941.15 APACHE COUNTY TAX WITHHOLDING 140,395.73 ASRS LEGACY EORP 1,089.96 AZ STATE RETIREMENT SYSTEM 96,019.87 COLONIAL LIFE AND ACCIDENT INS 1,281.28 CORRECTIONS OFFICER RET PLAN 7,273.19 CORRECTIONS OFFICER RETIREMENT PLAN 520 5,206.34 EORP LEGACY 1,288.26 NATIONWIDE 1,955.00 NATIONWIDE RETIREMENT SOL EODCRS 1,030.62 PUBLIC SAFETY PERSONNEL 401 7,699.10 PUBLIC SAFETY SHERIFF RET 45,049.62 SUPPORT PAYMENT CLEARINGHOUSE 2,279.89 BOWMAN, GLORIA 1,700.00 AMAZON CAPITAL SERVICES INC (IT DEPT) 1,474.74 AMIGO CHEVROLET 1,325.25 ARCHER MANUFACTURING 2,280.00 ASHTONS REPAIR INC 1,974.68 AZLGEBT 313,528.88 BENDER, JUDITH A 6,437.50 BLUE HILLS ENVIRONMENTAL 1,658.11 BOB BARKER COMPANY INC 1,712.87 BRADCO 19,815.39 BREWER LAW OFFICE PLLC 8,500.00 BURNHAM MORTUARY 1,200.00 EASTERN ARIZONA COUNTIES ORGANIZATION EAC 50,000.00 ESCUDILLA INTERIORS 1,200.00 FRONTIER 1,761.02 GALL'S INC 3,136.66 GOLIGHTLY TIRE 4,409.64 HIGH 5 DESIGN 3,521.90 HOME DEPOT 8,078.68 INGRAM LIBRARY SERVICES 1,838.10 KATHLEEN M MCGUIRE PSY D LLC 2,632.50 LAW OFFICE OF DIRK LEGATE PLLC 8,555.00 MOUNTAIN COMFORT HEATING AND COOLING 2,121.00 NAVOPACHE ELECTRIC COOPERATIVE 9,629.06 PACIFIC PONDEROSA CO INC 5,462.12 PATTERSON, DANA BRYCE 8,500.00 PITNEY BOWES 3,362.91 QUILL CORP 3,221.20 RB LASTING IMPRESSION 1,129.97 RICOH USA INC 1,375.98 ROCKWERX INC 5,975.00 SAN DIEGO POLICE EQUIPMENT 1,905.20 SCHIFF, LAURENCE 1,200.00 SCHINDLER ELEVATOR CORPORATION 2,902.09 ST JOHNS CITY 2,971.92 SUN RIDGE SYSTEMS, INC 20,980.00 SYSTEM EXCHANGE CORPORATION 2,600.00 THE AARONS COMPANY LLC 3,000.00 TJP COMMUNICATIONS 4,694.33 TYLER TECHNOLOGIES INC 3,000.00 US GEOLOGICAL SURVEY 5,600.00 US POSTMASTER 3,624.00 VALLEY AUTO PARTS 1,324.13 VERIZON WIRELESS 1,506.79 WAGNER EQUIPMENT CO 1,006.25 WAUNKA, DARREN 1,105.00 WOODLAND BUILDING CENTER 3,093.46 WRIGHT EXPRESS FSC 1,342.88 SANDOVAL, PATRICK J 3,300.00 Demands are payments made, or to be made, by the County. Specific details of the demands may be requested through the County public record request process. B. Request approval of minutes dated August 21, 2017 and September 5, 2017. C. Request approval of a Special Event Liquor License for Wes Myers, American Legion Post 130 for Oktoberfest on October 7, 2017 at the Concho Valley Lions Club Park, Commercial Drive in Concho, Arizona. D. Request approval to sell two (2) pickups to the St. Johns Unified School District for a total of four thousand dollars (\$4,000). E. District II: Request approval to create a Public Works Foreman I (Range 36) position, effective September 18, 2017. Vote was

unanimous.

Mr. Shamley requested approval of a resolution recognizing fallen firefighters and emergency services personnel and observing October 7, 2017 (first Saturday in October) as Fallen Firefighter and Emergency Services Personnel Day. Oscar Miranda, a resident of Alpine read the resolution. **Mr. Shepherd moved approval seconded by Mr. Shamley.** Vote was unanimous.

**A RESOLUTION DECLARING RECOGNITION OF FALLEN FIREFIGHTERS  
AND EMERGENCY SERVICES PERSONNEL**

**#2017-18**

**WHEREAS**, the United States Congress and the President of the United States have designated the day of the annual National Fallen Firefighters Memorial Service as a day to honor firefighters and emergency services personnel who have sacrificed their lives to save others by lowering the American flag on all federal buildings to half-staff; and

**WHEREAS**, an average of 100 firefighters courageously make the ultimate sacrifice in the line of duty each year, including nineteen firefighters who lost their lives during the Yarnell Hill Fire in Arizona on June 30, 2013; and

**WHEREAS**, the events of September 11, 2001, brought national attention to the duties, responsibilities, hazards, and sacrifices faced by fire and emergency services personnel on a daily basis; and

**WHEREAS**, the Rodeo-Chediski, Wallow and Cedar Creek Fires brought awareness of the local sacrifices, hazards, duties, responsibilities that we as a community face and those faced by emergency responders; and

**WHEREAS**, firefighters and emergency services personnel play an essential role in the protection of lives and property in our local community; and

**WHEREAS**, the National Memorial Service marks the beginning of the annual Fire Prevention Week observance; and

**WHEREAS**, it is of major importance that we increase our efforts to reduce deaths, injuries, and property losses from fire;

**BE IT THEREFORE RESOLVED**, that the Board of Supervisors of Apache County, Arizona, now calls upon all citizens of Apache County and upon all patriotic, civic, and educational organizations in Apache County to observe the first Saturday in October, (October 7, 2017) in recognition of the patriotic service and dedicated efforts of our fire and emergency services personnel by lowering American flags on all buildings to half-staff. The Board encourages appropriate services and ceremonies in which all our citizens may participate to honor fire and emergency services personnel, past and present, who, by their faithful and loyal devotion to duties, have rendered

invaluable service to our community and its citizens.

**BE IT THEREFORE RESOLVED**, that the Board of Supervisors of Apache County, further calls upon citizens of Apache County to remember all fire and emergency personnel who have made the ultimate sacrifice in service to their community and to pay respect to the survivors of our fallen heroes.

Adopted this 19<sup>th</sup> day of September 2017

/s/ Joe Shirley, Jr.  
Chairman of the Board

ATTEST:

/s/ Delwin Wengert  
Clerk of the Board

Angela Romero, Election Director, requested approval to combine precincts Puerco East and Puerco West into one precinct with the new name of "Puerco." **Mr. Shamley moved approval, seconded by Mr. Shepherd.** A discussion was held regarding the reason for the combined precincts. Mr. Romero stated both precincts currently vote at the same polling site, and vote of the same ballot and this will only affect 27 active voters. Mr. Shirley asked if there were any legal issues. Mrs. Romero stated no. Vote was unanimous.

Mr. Shepherd requested approval of the Whole and Retail Network Services Agreement between Apache County and the Navajo Tribal Utility Authority. Mr. Shepherd stated this will increase the speed at the internet at District II and will assist with implementing the digital library. **Mr. Shamley moved approval, seconded by Mr. Shepherd.** Vote was unanimous.

Mr. Wengert requested renewal of the Pioneer School Complex Lease Agreement between Northland Pioneer College and Apache County for the use of post-secondary education services. **Mr. Shepherd moved approval, seconded by Mr. Shamley.** Mr. Shamley stated he had questions regarding the maintenance of the property and wanted clarification because on the prior agreement the rental cost was \$15,000 per year to the current agreement of zero cost. Mr. Wengert stated it is the County's responsibility to maintain the building but the agreement is confusing on any remodel of the property. Mr. Wengert stated the intent of the zero cost is because the college would just charge the County back for the services provided out of the secondary taxing district. Vote was unanimous.

Craig Sullivan, Executive Director, County Supervisor's Association provided a power point report on recent County Supervisors Association activities including a discussion on the recent legislative session and budget. No action was needed or taken,

Mr. Wengert provided notification of the Eastern Arizona Counties meeting on September 20, 2017 at 3:00 p.m. at the County Supervisors Association (CSA) building, 1905 W. Washington Street, Phoenix, Arizona, Small Counties Association meeting at 5:30 p.m. at the CSA building, 1905 West Washington Street, Phoenix Arizona, the County Supervisors Association meeting on September 21, 2017 at 10:00 a.m. at the CSA building, 1905 West Washington Street, Phoenix,

Arizona where two or more members of the Apache County Board of Supervisors may be in attendance.

There was no one wanting to address the Board during the call to the public.

**Mr. Shepherd moved to adjourn, seconded by Mr. Shamley.** Vote was unanimous.

Approved this 17<sup>th</sup> day of October 2017.

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Dr. Joe Shirley, Jr.  
Chairman of the Board

---

Ryan Patterson  
Clerk of the Board

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Building & Maintenance

Date/Signature: 10-2-17 

Describe in detail what you want to say to the Board and what action you want the Board to take:

Discussion and possible approval of a request to extend the temporary employment of Lane Wilkins for an additional 90 days. Mr. Wilkins is currently a 40 hours per week temporary. Request for extension is made due to the fact that Building & Maintenance is still working on the CDBG grant for the fairground grandstands and Mr. Wilkins is needed for this project.

BOS Meeting Date Requested 10/17/17

PRE-AGENDA ITEM REVIEW

Legal Review: \_\_\_\_\_

Signature \_\_\_\_\_

Finance Review: \_\_\_\_\_

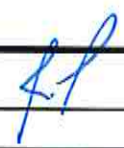
Signature 

Human Resources Review: \_\_\_\_\_

Signature 

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials 

## Beth Bond

---

**From:** Dodee Wallace  
**Sent:** Tuesday, October 10, 2017 8:25 AM  
**To:** Doyel Shamley  
**Cc:** RD Stradling; Beth Bond  
**Subject:** Temporary Extension

Good Morning Supervisor Shamley,

Building and Maintenance has an item on the October 17<sup>th</sup> board agenda to extend Lane Wilkins temporary employment another 90 days. With several project started his help is greatly needs in order to try and complete them in a timely manner. He has proven to be a good and reliable worker, with many useful skills.

His continued extension would be appreciated. Thanks for your consideration.


RD Stradling, Director  
Building and Maintenance  
PO BOX 428  
St. Johns, AZ 85936  
(928) 337-7922

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Community Development

Date/Signature: 10/5/17 

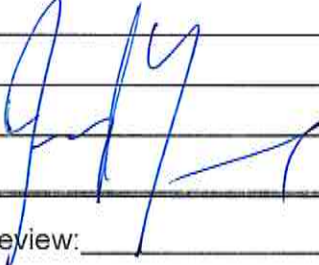
Describe in detail what you want to say to the Board and what action you want the Board to take:

Consent agenda – consideration and approval of a conditional use permit allowing Navopache Electric Cooperative, LLC (NEC) to construct a 240' steel lattice communication tower, replacing an existing 40' steel monopole communication tower. The tower is located on private property in the NEC sub-station located within the Tucson Electric Power (TEP) Springerville Generating sub-station. Township: 11, Range: 30, Section: 34. The Planning & Zoning commission unanimously approved the C.U.P. on September 14, 2017. Planning & Zoning recommends approval.

BOS Meeting Date Requested October 17, 2017

PRE-AGENDA ITEM REVIEW

Legal Review:



Signature

Finance Review:

Signature

Human Resources Review:

Signature

Other Review:

Signature

Reviews completed, item approved for Agenda.

Board Clerk's Initials





## Apache County Community Development

### MEMORANDUM

TO: Board of Supervisors  
FROM: Devin Brown, Community Development Director  
DATE: October 5, 2017  
RE: Navopache Electric installing 240 ft communication tower on TEP property.

---

Navopache Electric Cooperative (NEC) wants to install a 240 ft communication tower on the TEP property. This communication tower would allow NEC to communicate more effectively, especially if other towers in the area are destroyed somehow. NEC currently has a 40 foot tower in that location. So they want to replace the smaller tower with the 240' tower.

This tower location is far from any neighbors. The closest neighboring property, which is vacant grazing land, is over a mile away. We still sent out letters and there were no objections from neighbors. TEP itself sits on a huge parcel and the only access is by traveling on several miles of private road and passing through a security guard shack. So it is quite remote. Furthermore, even though the proposed tower is very tall, it will be shorter than the adjacent smoke stacks of the power plant. So impacts to neighboring parcels will be minimal. In fact, if there is a good place to put a tower that will not bother neighbors, this would be the place.

For these reasons, the Planning and Zoning Commission unanimously recommended approval of this Conditional Use Permit.



**APACHE COUNTY — Community Development Department**  
 P.O. Box 238 • St. Johns, AZ 85936 • Phone: (928) 337-7527 • Fax: (928) 337-7633

**CONDITIONAL USE PERMIT APPLICATION**

**APPLICANT**

Name Navopache Electric Cooperative, Inc  
 Mailing Address 1878 W White Mountain Blvd  
Lakeside, AZ 85929  
 Contact Person Tony Lindsey  
 Phone 480-319-3110 Fax \_\_\_\_\_  
 Email tlindsey@navopache.org

**PROPERTY INFORMATION**

Assessor's Parcel # TEP  
 Township 11 Range 30 Section 34  
 Subdivision \_\_\_\_\_  
 Unit # \_\_\_\_\_ Lot # \_\_\_\_\_  
 Address/Location \_\_\_\_\_  
 Existing Zoning \_\_\_\_\_  
 Existing Land Use \_\_\_\_\_  
 Lot Size \_\_\_\_\_

**CONDITIONAL USE PERMIT REQUEST**

Please provide a brief description of the request.  
We have an electrical substation on TEP property  
at the Springerville plant. It is fenced and has a  
power pole being utilized for a comm tower. We  
want to replace that pole with a proper 240' comm  
tower. 34° 18' 36.06" N 109° 9' 44.42" W

Temporary Use:  Yes  No

**SUBMITTAL CHECKLIST**

- Pre-application meeting with a staff planner in the Planning and Zoning Division.
- Proof of Ownership.
- Application, photographs, diagrams, site plans with the setbacks noted, and any other required information. Please be precise and detailed. *(See the attached guidelines)*
- Citizen Review Process as listed in ordinance Section 1106. And a list of names and addresses of all the property owners Within 300 feet of subject property.
- Seventeen copies of all plans and drawings.
- Map to property.
- A non-refundable filing fee.
- All required items need to be submitted to Planning and Zoning at least 30 days prior to the next scheduled meeting.

**CERTIFICATION & SIGNATURE**

Submittal of this application constitutes consent of the applicant in granting the Community Development Department access to the subject property during the course of project review. No further consent or notice shall be required.

I hereby certify that the information in this application is correct and agree to abide by the regulations of this jurisdiction.

Signature of Applicant  
Anthony Lindsey Date 24MAY17

Signature of Property Owner (if not the applicant)  
 \_\_\_\_\_ Date \_\_\_\_\_

**OFFICE USE ONLY**

Received By S Pearce Date 7/31/17  
 Receipt # \_\_\_\_\_ Fee 500.00  
 Permit # 2017-28  
 Related Cases \_\_\_\_\_  
 Appeal Filed By \_\_\_\_\_ Date \_\_\_\_\_  
 Receipt # \_\_\_\_\_ Fee \_\_\_\_\_

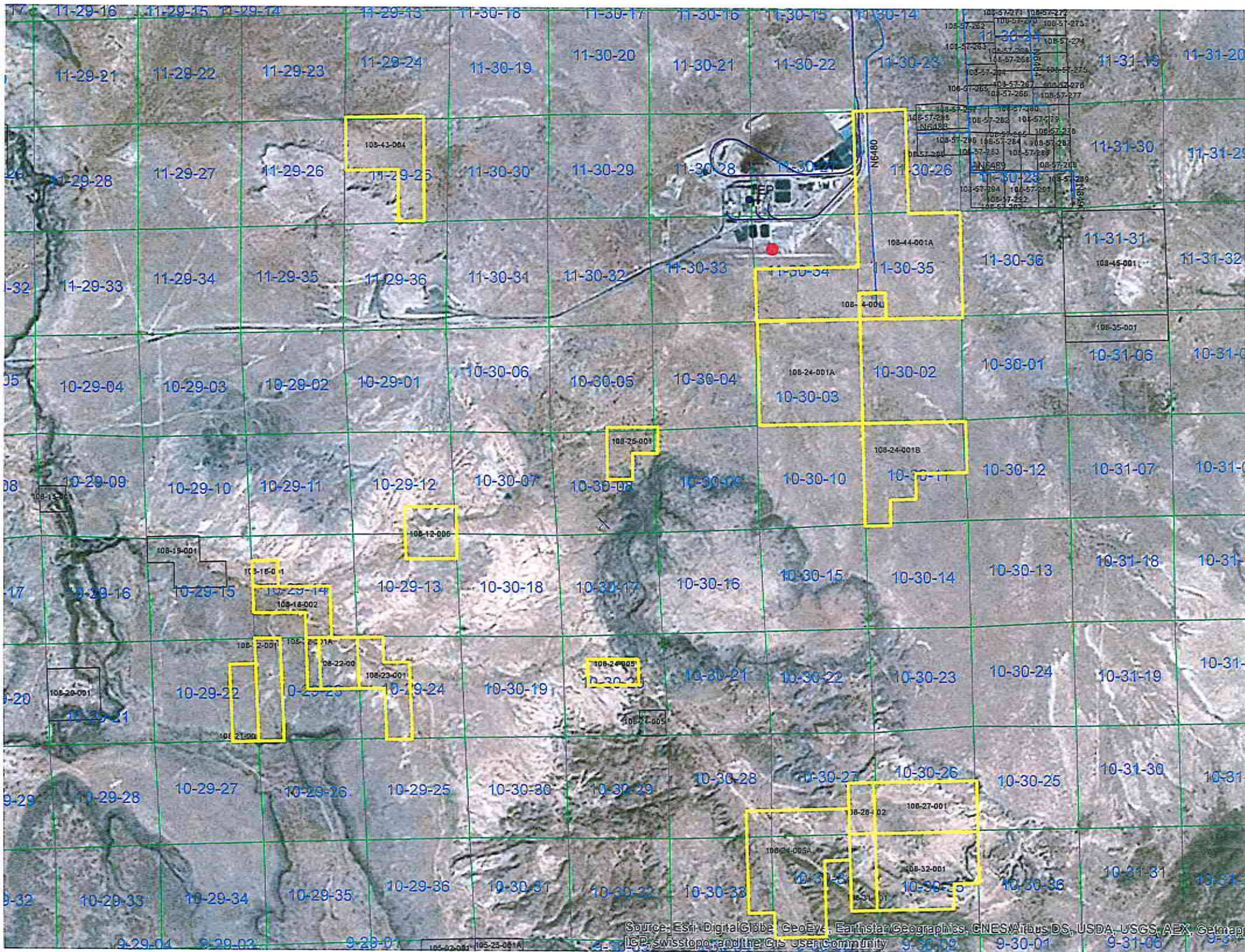
**COMMISSION ACTION**

Approved with Conditions (*see attachments*)  Denied  
 Resolution # \_\_\_\_\_ Date \_\_\_\_\_  
 Chairman [Signature] Date 9/14/17

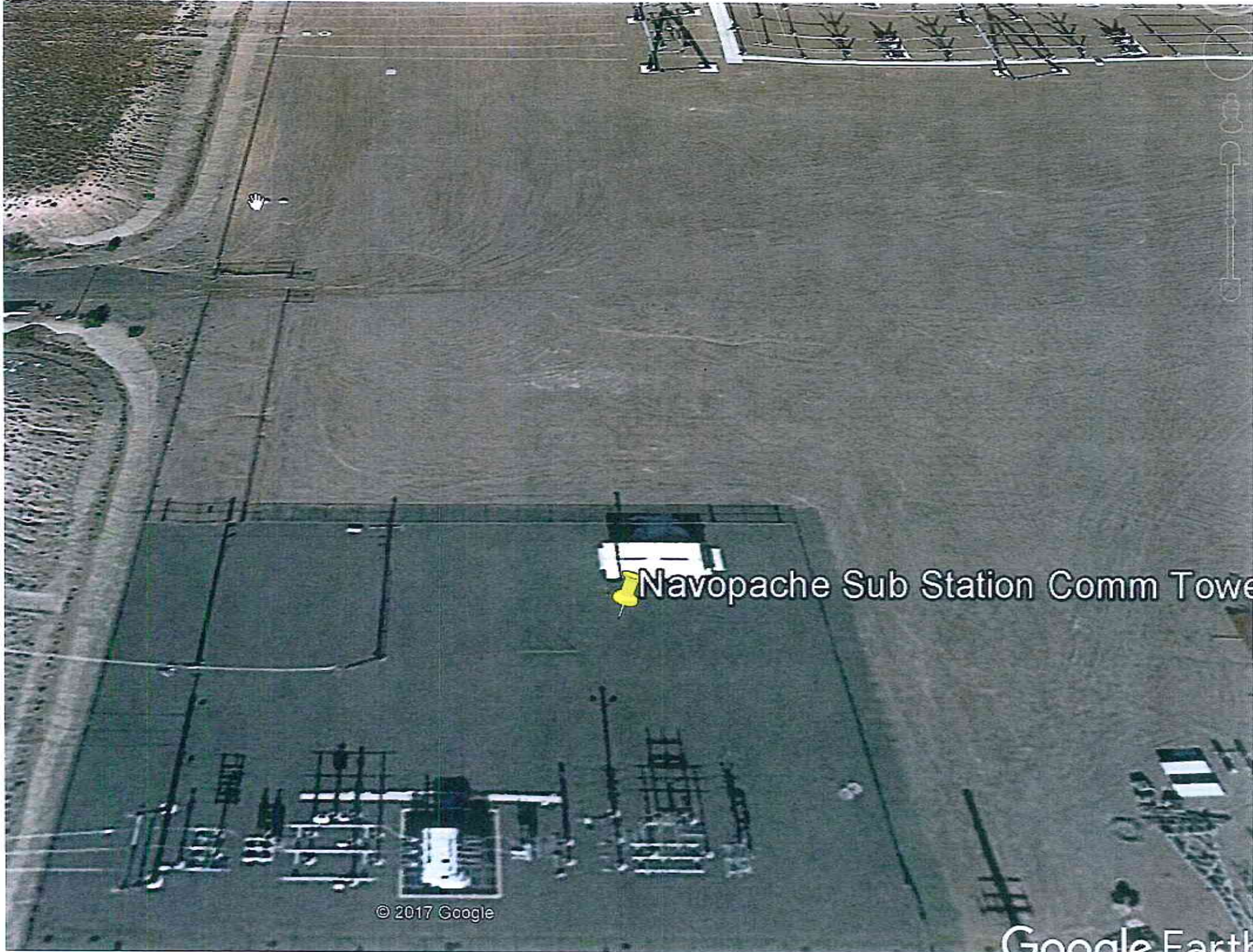
**BOARD ACTION**

Approved with Conditions (*see attachments*)  Denied  
 Ordinance # \_\_\_\_\_ Date \_\_\_\_\_  
 Supervisor \_\_\_\_\_ Date \_\_\_\_\_

April 19, 2016



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, Swayze, and the GIS user community



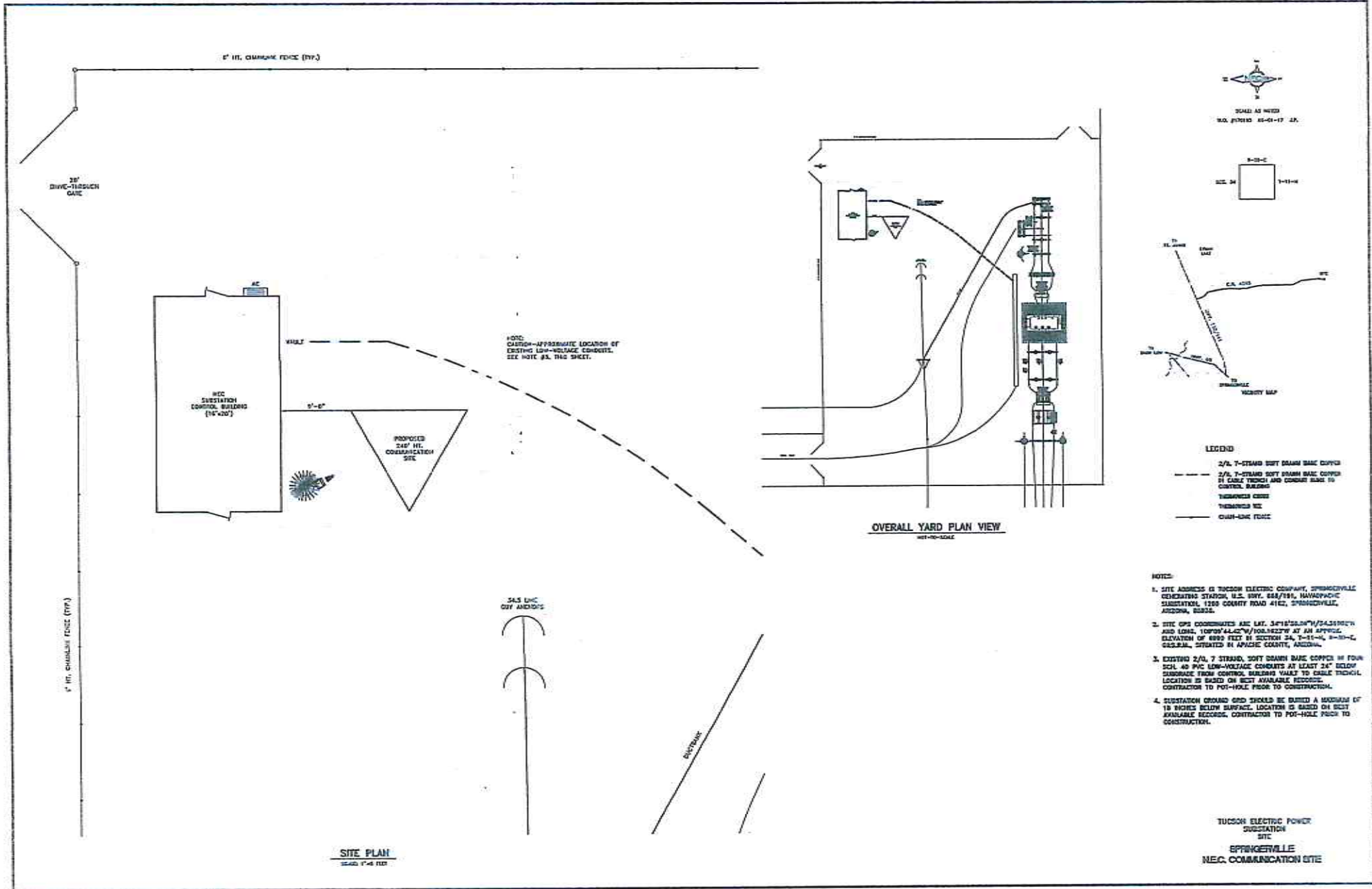
Navopache Sub Station Comm Tower



Google Earth

feet  
meters





8' x 11' CHANNEL FENCE (TYP.)

28' DRIVE-THROUGH GATE



VAULT

8' x 11'



NOTE: CAUTION--APPROXIMATE LOCATION OF EXISTING LOW-VOLTAGE CONDUITS. SEE NOTE #3, TAG SHEET.

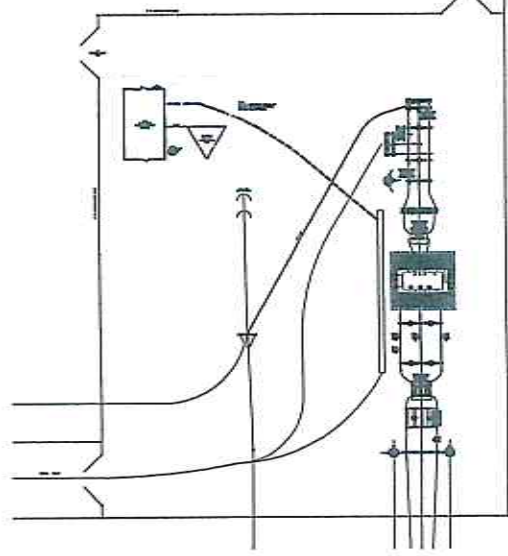
8' x 11' CHANNEL FENCE (TYP.)

3/4" DIA. DUCT AND/OR DUCT



BOUNDARY

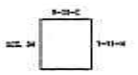
**SITE PLAN**  
SCALE: 1" = 48' 0"



**OVERALL YARD PLAN VIEW**  
SCALE: 1" = 48' 0"



SCALE AS NOTED  
NO. 201010 05-01-17 25



**LEGEND**

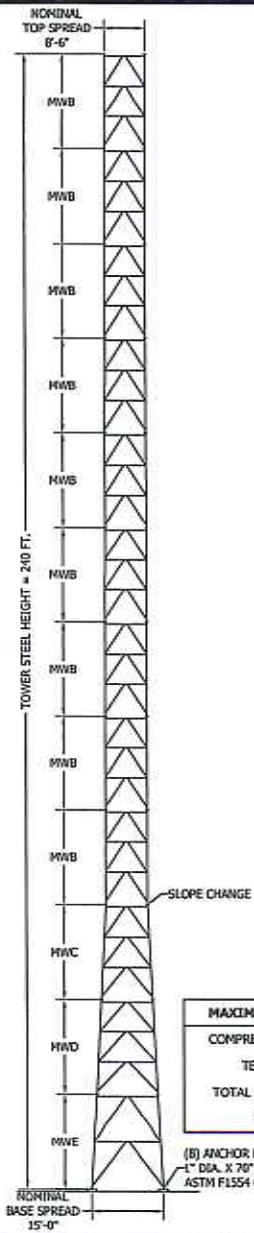
- 2/3 7-STRAND SOFT DRAIN BARE COPPER
- - - 2/3 7-STRAND SOFT DRAIN BARE COPPER IN CABLE TRUNK AND CONDUIT BUNDLES TO CONTROL BUILDING
- INSURANCE CASE
- TRENCHES AND
- CHAIN-LINK FENCE

**NOTES:**

1. SITE ADDRESS IS TUCSON ELECTRIC COMPANY, SPRINGVILLE GENERATING STATION, U.S. HWY. 88A/191, HAWAIIAN SUBSTATION, YUMA COUNTY ROAD #112, SPRINGVILLE, ARIZONA, 85332.
2. SITE GPS COORDINATES ARE LAT. 34°18'22.04"N/108°55'07.04"W AND LONG. 108°55'41.27"W/108°55'22.77"W AT AN APPROX. ELEVATION OF 8800 FEET IN SECTION 24, T-11-4, 8-28-C, GENERAL, SITUATED IN APACHE COUNTY, ARIZONA.
3. EXISTING 2/3, 7 STRAND, SOFT DRAIN BARE COPPER IN FOUR SCH. 40 PVC LOW-VOLTAGE CONDUITS AT LEAST 24" BELOW SURFACE FROM CONTROL BUILDING WALK TO CABLE TRUNK. LOCATION IS BASED ON BEST AVAILABLE RECORDS. CONTRACTOR TO POT-HOLE PRIOR TO CONSTRUCTION.
4. SUBSTATION GROUND GRID SHOULD BE BURIED A MINIMUM OF 18 INCHES BELOW SURFACE. LOCATION IS BASED ON BEST AVAILABLE RECORDS. CONTRACTOR TO POT-HOLE PRIOR TO CONSTRUCTION.

TUCSON ELECTRIC POWER  
SUBSTATION  
SITE  
SPRINGVILLE  
NEC, COMMUNICATION SITE

JUN 15, 2017 08:33 AM



MAXIMUM FACTORED REACTIONS	
COMPRESSION =	296.9 KIPS
TENSION =	274.0 KIPS
TOTAL SHEAR =	28.1 KIPS
O.T.M. =	3,813.5 FT-KIPS

(8) ANCHOR BOLTS (24 TOTAL)  
 1" DIA. X 70" LONG  
 ASTM F1554 Gr. 105

TOWER DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA-222-G: ASCE 7-10 ULTIMATE WIND SPEED (NO ICE) = 115 MPH BASIC WIND SPEED (ICE) = 30 MPH DESIGN ICE THICKNESS = 0.25 IN. STRUCTURE CLASS = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: SS = 0.225		
THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
TOP	BEACON AND LIGHTNING ROD	(1) 3/4"
230	(1) 4 FT HP DISH W/ (2) ODU's (AZ 86 DEG) [6GHZ]	(2) LMR400
220	(1) 6 FT HP DISH (AZ. 240 DEG)	(2) EW63
208	(1) 6 FT HP DISH (AZ. 110 DEG)	(1) EW63
182	(1) 6 FT HP DISH (AZ. 110 DEG)	(1) EW63
100	(1) 4 FT HP DISH W/ (2) ODU's (AZ 86 DEG) [6GHZ]	(2) LMR400

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON TOWER.

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEG	DIAGONAL	HORIZONTALS
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 3.500x0.216	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 4.500x0.237	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 5.563x0.258	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 5.563x0.375	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 5.563x0.375	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWC	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWD	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 2.375x0.154 (3)
MWE	PIPE 8.625x0.375	PIPE 2.875x0.203 (2)	PIPE 2.375x0.154 (2)

NOTE: SECTION NUMBERS ARE FOR REFERENCE ONLY. FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.  
 THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO. Q17-10984

REVISIONS

REV	DESCRIPTION	DATE	CHK	APP

PRELIMINARY  
NOT FOR CONSTRUCTION

**ROHN**  
PRODUCTS LLC

PO BOX 5999  
PEORIA, IL 61601-5999  
TOLL FREE 800-727-ROHN

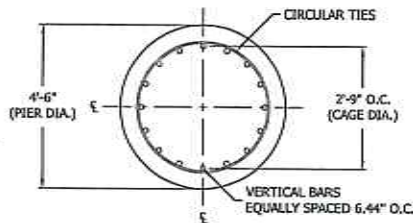
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRAZED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

**CHI MICROWAVE  
DESIGN PROFILE  
240' MW  
SPRINGER TEP GEN**

DRAWN: SWG	CHKD:	DATE: Jun/19/17
ENGR:	SHEET #: 1 OF 1	
PRJ. ENGR: SWG	PRJ. MGR:	

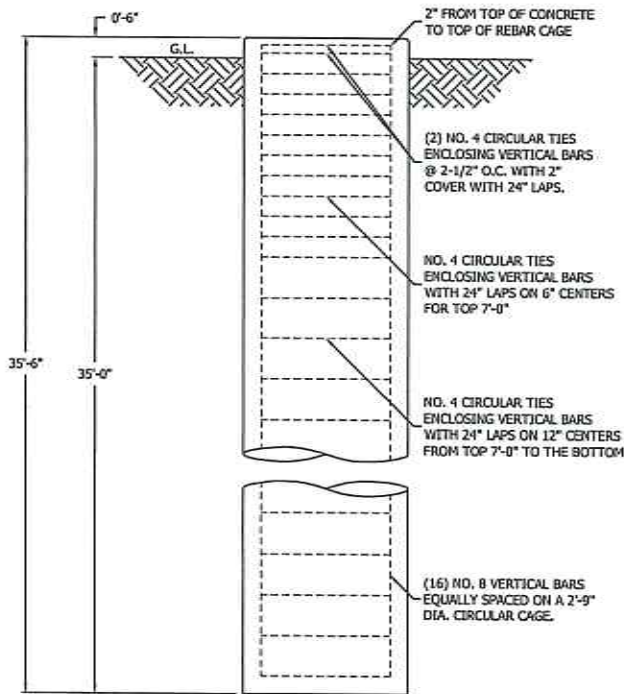
DRAWING NO: Q17-10984 PROFILE

REV: 0



**NOTE:**  
CAGE DIA. FROM CENTERLINE OF VERTICAL BARS.

**PLAN VIEW**  
N.T.S.



**ELEVATION VIEW**  
N.T.S.

**FACTORED REACTIONS/LEG**

DOWNLOAD = 296.9 KIPS  
UPLIFT = 274 KIPS  
SHEAR = 19.2 KIPS

**VOLUME OF CONCRETE**

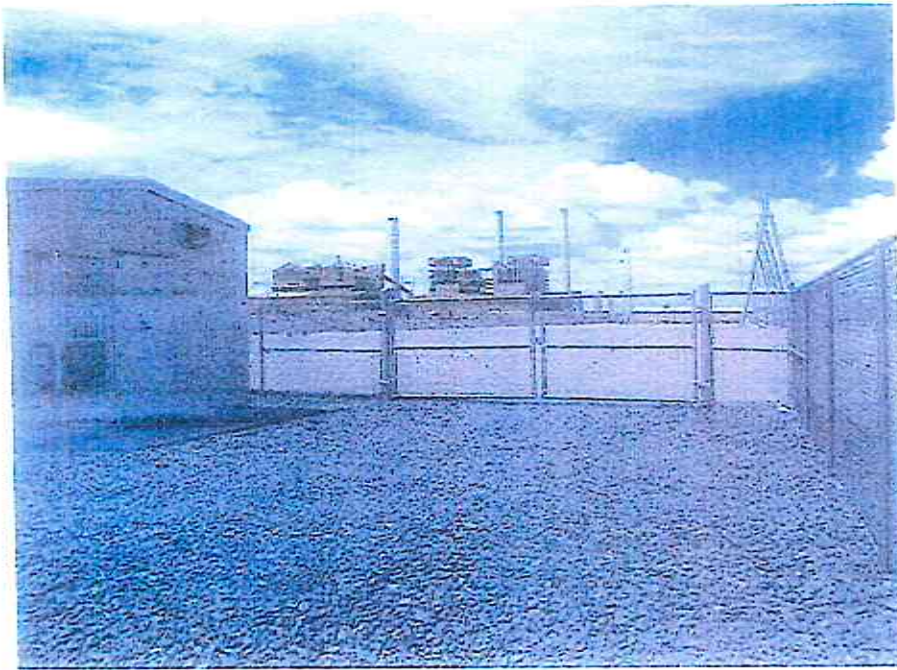
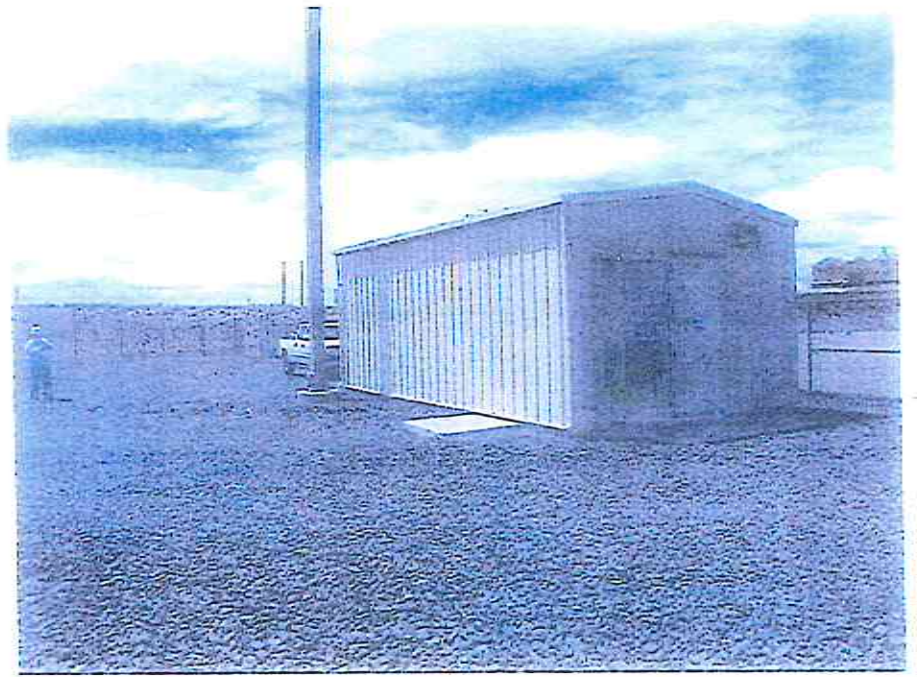
(1) FOUNDATION 20.9 CU. YDS  
(3) FOUNDATIONS 62.7 CU. YDS

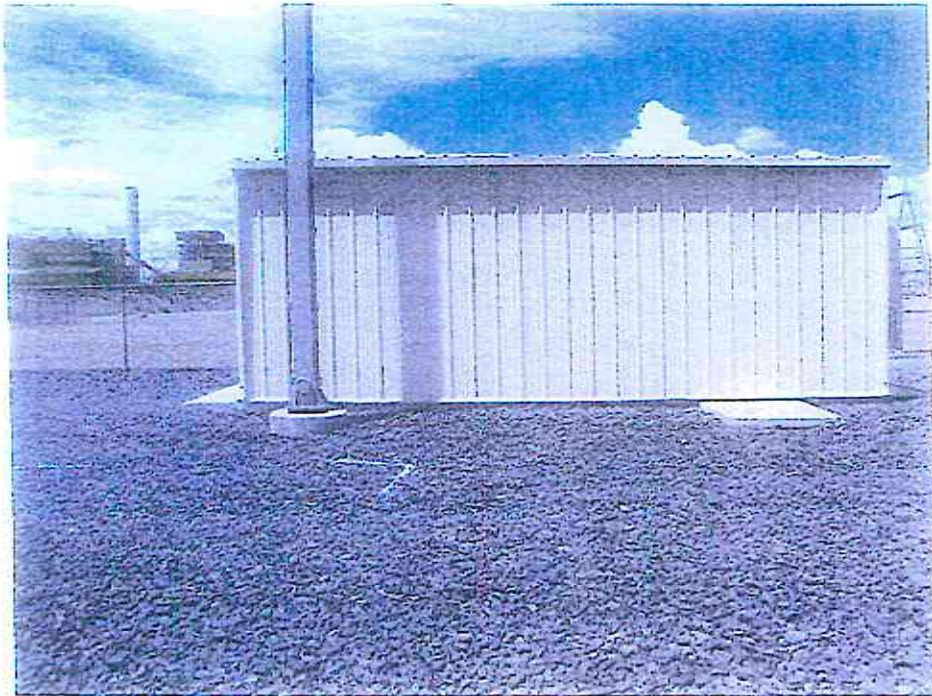
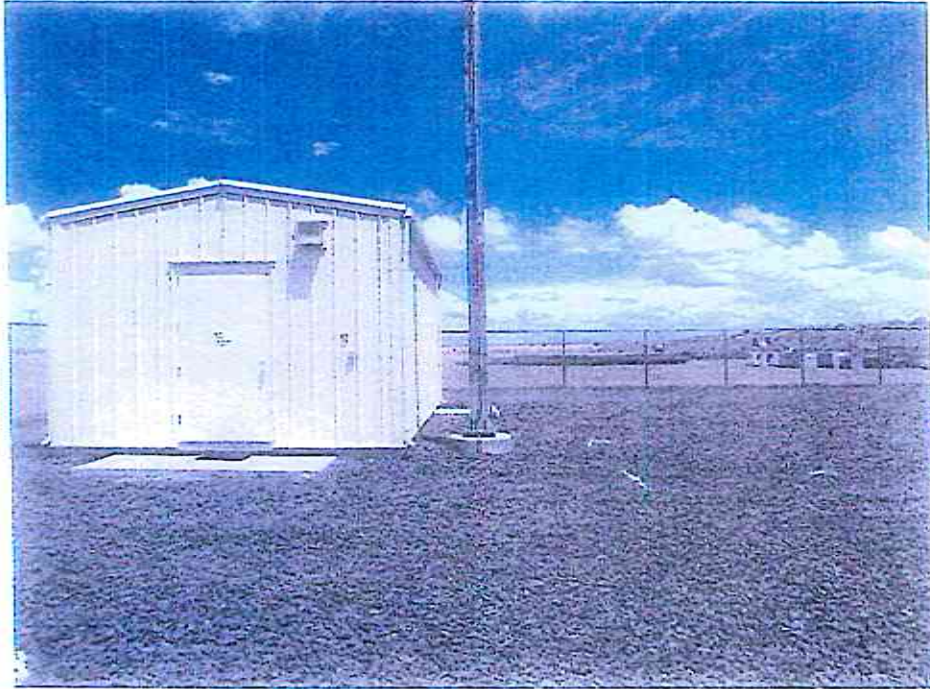
**GENERAL NOTES:**

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 3.0 FT
  - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 3.0 FT TO 10.0 FT DEPTH = 500 PSF; 10.0 FT TO 15.0 FT DEPTH = 1000 PSF; 15.0 FT TO 24.0 FT DEPTH = 1800 PSF; 24.0 FT TO 33.0 FT DEPTH = 600 PSF.
  - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 3.0 FT TO 10.0 FT DEPTH = 500 PSF; 10.0 FT TO 15.0 FT DEPTH = 1000 PSF; 15.0 FT TO 24.0 FT DEPTH = 1800 PSF; 24.0 FT TO 33.0 FT DEPTH = 600 PSF.
  - ULTIMATE NET END BEARING AT 33.0 FT = 18.00 KSF.
  - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPa) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 25149 DATED 6/13/2017 BY VANN ENGINEERING.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.
- DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.

**NOTE:** SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO.		Q17-10984		
REVISIONS				
REV	DESCRIPTION	DATE	CHK	APP
PRELIMINARY NOT FOR CONSTRUCTION				
 RQH PRODUCTS LLC PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-RDHW				
THIS DRAWING IS THE PROPERTY OF RQH. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.				
<b>CMR MICROWAVE DRILLED PIER FOUNDATION DETAILS SPRINGER TEP GEN</b>				
DATE:	CHKD:	DATE:	7/3/2017	
ENGR:	SWG	SHEET #:	1 OF 1	
PRJ. ENGR:	SWG	PRJ. MNGR:		
DRAWING NO:	Q17-10984 CAISSON			REV:
				0





Impact Statement for Navopache Electric Cooperative, Inc. for a proposed communication tower to be built in the Navopache sub station that is located within the TEP Springerville sub station yard.

Navopache Contact: Tony Lindsey, Manager of IT

Date: August 1, 2017

Reference Document: Apache County Community Development Conditional Use Permit Application  
Section C, #8

This conditional use permit is to assist the Board of Supervisors to in its evaluation of the application. Below are the required areas of consideration with Navopache responses:

- a. Number of employees; ~~Apache County~~ <sup>Navopache</sup> has approximately 100 employees; usually 2-3 employees will access the substation at a time. There will be zero permanent employees onsite.
- b. Estimated amount of traffic by day of week; Same as before the tower is built; 1-2 site visits a month; usually Mon-Thur.
- c. Parking, storage, loading, and service areas needed; None; everything will be contained with the existing Navopache substation yard.
- d. Amount of water use and source; None
- e. Method of handling increased surface drainage; No increase surface drainage
- f. Nearest residences; Ranch home on river 14 miles to West; 40 acre rural lots 4 miles to NE  
There nearest ranchland to the proposed tower comm site is 2 miles SE and is a ½ section parcel 108-24-001B that is owned by the Johnson family. They also own a ¼ section about 2 miles SW of the south TEP property line parcel 108-25-001. There are other 6 similar sized parcels owned by other ranchers approx. 5 miles south of the TEP property line.
- g. Amount and types of refuse and sewage; NA
- h. Any pollutants and method of handling; None
- i. Site changes necessary including tree removal; No trees, Remove old monopole tower, Dig 3 holes for Piers, Pour concrete piers and stack tower on pier foundation.
- j. Landscaping and recreation provided; NA
- k. Use of natural resources; NA
- l. Fire prevention and protection systems; NA
- m. Services required of the county, such as road maintenance and snow removal; NA; utilizing the existing Apache County road 4162 that goes to TEP
- n. Method of controlling dust from traffic areas and other sources. NA

The newspapers of **Arizona** make public notices from their printed pages available electronically in a single database for the benefit of the public. This enhances the legislative intent of public notice - keeping a free and independent public informed about activities of their government and business activities that may affect them. Importantly, Public Notices now are in one place on the web ([www.PublicNoticeAds.com](http://www.PublicNoticeAds.com)), not scattered among thousands of government web pages.

**County:** Navajo

**Printed In:** White Mountain Independent (Show Low)

**Printed On:** 2017/08/11

This is a local public notice of a communications tower being constructed by Navopache Electric Cooperative at the TEP Generating Station in the Navopache Sub Station yard within the TEP Sub Station yard. TEP is located on Apache County Road 4162 Springerville, AZ 85938. All interested parties may review the Form 854 File Number; A1086225 on the FCC website [www.fcc.gov/asr/applications](http://www.fcc.gov/asr/applications) for further information.

The geographical location of the tower is on private property, about 2 miles from the TEP property line on the south. GPS Coordinates are:

Latitude: 34°18' 36.06" N

Longitude: 109°09' 44.42" W

30.2 miles SE of St Johns, AZ 85936. It is a steel lattice tower, 240' in height. This is a new structure, replacing the existing 40' steel monopole comm tower.

Interested persons may raise environmental concerns about the proposed structure by filing a Request for Environmental Review with the Federal Communications Commission. The FCC strongly encourages interested parties to file Requests for Environmental Review online, and that instructions for making such filings can be found at [www.fcc.gov/asr/environmentalrequest](http://www.fcc.gov/asr/environmentalrequest). The mailing address for interested parties that would prefer to file a Request for Environmental Review by paper copy: FCC Requests for Environmental Review, Attn: Ramon Williams, 445 12th Street SW, Washington, DC 20554.

Tony Lindsey

Manager Information Technology

Navopache Electric Cooperative

1878 W. White Mtn. Blvd. 1/2 Lakeside Arizona 85929

(928) 368-1241 Office

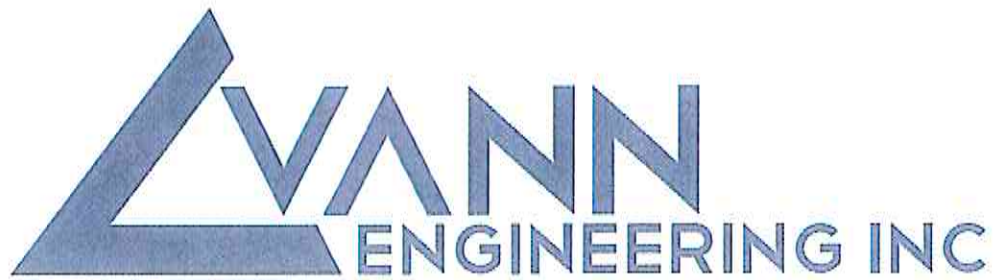
(928) 368-6038 Fax

Email: [tlindsey@navopache.org](mailto:tlindsey@navopache.org)

Published in the White Mountain Independent: August 11, 2017

WMI 0686, F, 1x, 8/11/17e

**Public Notice ID:**



***Geotechnical Investigation Report***

***SPRINGERVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109° 9'44.40"W  
SPRINGERVILLE, ARIZONA***

***Prepared for:***

***Mr. Russ Marble  
CMI Microwave  
1810 West Spruce Street  
Phoenix, Arizona 85007***

***June 13, 2017***

***Project 25149***



**GEOTECHNICAL ENGINEERING • ENVIRONMENTAL CONSULTING  
CONSTRUCTION TESTING & OBSERVATION**



GEOTECHNICAL ENGINEERING ▪ ENVIRONMENTAL CONSULTING ▪ CONSTRUCTION TESTING & OBSERVATION

June 13, 2017

Project 25149

Mr. Russ Marble  
CMI Microwave  
1810 West Spruce Street  
Phoenix, Arizona 85007

**RE: GEOTECHNICAL INVESTIGATION REPORT  
SPRINGVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109° 9'44.40"W  
SPRINGVILLE, ARIZONA**

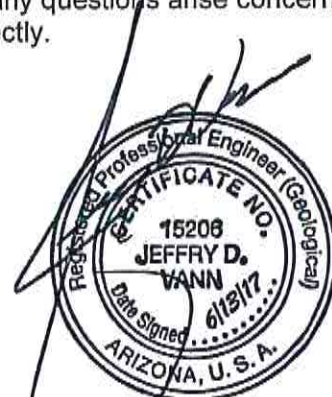
Mr. Marble:

Transmitted herewith is a copy of the final report of the geotechnical investigation on the above-mentioned project. The services performed provide an evaluation at selected locations of the subsurface soil conditions throughout the zone of significant foundation influence. As an additional service, this firm would be pleased to review the project plans and structural notes for conformance to the intent of this report. We trust that this report will assist you in the design and construction of the proposed project. Vann Engineering, Inc. appreciates the opportunity to provide our services on this project and looks forward to working with you during construction and on future projects. This firm possesses the capability of performing testing and inspection services during the course of construction. Such services include, but are not limited to, compaction testing as related to fill control, foundation inspections and concrete sampling. Please notify this firm if a proposal for these services is desired. Should any questions arise concerning the content of this report, please feel free to contact this office directly.

Respectfully submitted,

VANN ENGINEERING INC

  
Austin Olaiz, BSE  
Staff Geotechnical Engineer



Expires 09/30/19  
Jeffry D. Vann, MS, PE, F.ASCE  
Principal Engineer

Copies: (2) Addressee, and via email [rmarble@cmimicrowave.com](mailto:rmarble@cmimicrowave.com)



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# **SECTION I**

## 1.0 INTRODUCTION

This document presents the results of a geotechnical investigation conducted by Vann Engineering, Inc. for the

**SPRINGERVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109° 9'44.40"W  
SPRINGERVILLE, ARIZONA**



*Figure 1: Aerial photograph of proposed tower location and surrounding area*

Refer to the Site Plan included in Section II of this report for the exact location of the site with respect to surrounding roadways and landmarks. The services performed provide an evaluation at selected locations of the subsurface soil conditions throughout the zone of significant foundation influence.

### 1.1 Purpose

Refer to the Site Plan included in Section II of this report for the exact location of the subject site with respect to surrounding roadways and landmarks. The object of the investigation is to determine the physical characteristics of the subsurface soils underlying the site and to provide recommendations for safe and economical foundation design and slab support. The proposed development will consist of one 220' to 240' tall 3-leg self-support lattice tower, with the following anticipated base reactions:

Horizontal Shear Per Leg:	25-75 (kips)
Compression Per Leg:	350-450 (kips)
Uplift Per Leg:	250-300 (kips)

Anticipated structural loads in excess of those stated above will need to be addressed in an addendum, since they are not covered by the scope of services involved with this effort.



## 1.2 Scope of Services

The scope of services for this project includes the following:

- Description of the site at the time of the field investigation
- Surface and subsurface site investigation
- Description of all major soil and rock layers
- Site Plan indicating the locations of all points of investigation
- Explanation of applicable geologic hazards
- Laboratory testing of all samples obtained during the field investigation
- Geotechnical engineering analysis for the proposed project based on all data obtained from the site (e.g. laboratory test results and the subsurface investigation)
- Recommendations for conventional spread foundations; allowable soil bearing capacity based on a settlement analysis of ½ inch total settlement and ¼ inch differential settlement
- Recommendations for drilled shaft foundations
- Recommendations for individual spread foundations for the tower
- Recommendations for a mat foundation for the tower
- General excavation conditions
- Lateral stability analysis including active pressure, passive pressure and base friction
- Recommendations for site grading, drainage and slab support
- 2012 IBC Site Classification

Note: This report does not include, either specifically or by implication, any environmental assessment of the site or identification of contamination or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken. We are available to discuss the scope of work of such studies with you. Recommendations for basement-level facilities have not been included in our scope of services.

## 1.3 Authorization

The obtaining of data from the site and the preparation of this geotechnical investigation report have been carried out according to this firm's proposal, authorized by **Russ Marble**, to proceed with the services.

## 1.4 Standard of Care

Since our investigation is based upon review of background data, observation of the site materials at specific locations and depths, and engineering analysis, the conclusions and recommendations are professional opinions. Our professional services have been performed using that degree and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in this or similar localities. These opinions have been derived in accordance with current standards of practice and no other warranty, express or implied, is made. Limitations of this report and geotechnical issues, which further explain the limitations of the information contained in this report, are listed at 7.0.

## 2.0 PROJECT DESCRIPTION

### 2.1 Proposed Development

It is the understanding of this firm that the proposed communications facility will consist of one 220' to 240' tall 3-leg self-support lattice tower.



## 2.2 Site Description

The proposed lattice tower is to be constructed within the Springerville substation. Approximately 2.0 inches of gravel over 21.0 inches of spread fill (to remain in-place), were encountered at the location of the test boring (TB-1). The following photograph depicts the site conditions during the drilling effort and the immediate vicinity.



*Figure 2: General site conditions (facing east)*

## 3.0 SUBSURFACE INVESTIGATION AND LABORATORY TESTING

### 3.1 Subsurface Investigation

The site's subsurface was explored through the utilization of one (1) exploratory test boring, advancing to depth of 35.0 feet utilizing 4.5-inch continuous flight auger. The location of the exploratory test boring is shown on the Site Plan in Section II of this report, and is presented as TB-1.

A field log was prepared for the test boring. The field log contains visual classifications of the materials encountered during drilling as well as interpolation of the subsurface conditions between samples. The final log, included in Section II, represents our interpretation of the field log and may include modifications based on laboratory observation and tests of the field samples. The final log describes the materials encountered, their thicknesses, and the locations where samples were obtained. The sample locations are noted graphically on the boring log included in Section II of this report. The Unified Soil Classification System was used to classify soils. The soil classification symbols appear on the boring log and are briefly described in Section II.

**The materials encountered on the subject site are believed to be representative of the total area; however, soil and rock materials do vary in character between points of investigation. The recommendations contained in this report are based on the assumption that the soil conditions do not deviate appreciably from those disclosed by the investigation. Should**



**unusual material or conditions be encountered during construction, the soil engineer must be notified so that they may make supplemental recommendations if they should be required.**

Field resistivity testing was conducted at the location indicated on the included Site Plan. The testing was conducted using a 5-point Wenner Array with 2.5 feet, 5.0 feet, 10.0 feet, 20.0 feet and 40.0 feet electrode spacings. Refer to Section II for the results of the field resistivity testing.

### 3.2 Laboratory Testing

Laboratory analyses were performed on representative soil samples to aid in material classification and to estimate pertinent engineering properties of the on-site soils in preparation of this report. Testing was performed in general accordance with applicable test methods. A representative sample obtained during the field investigation was subjected to the following laboratory analyses:

**Table 1: Laboratory Testing**

Test	Sample(s)	Purpose
Response to Wetting, Dry Density, & Moisture	Native subgrade soils (1)	Determination of soil bearing
Sieve Analysis & Atterberg Limits	Native subgrade soils (1)	Soil classification
Moisture Test	Native subgrade soils (1)	In-situ soil conditions
Corrosion Suite – pH, Soluble Sulfates, Chlorides	Native subgrade soils (1)	Determination of the potential for corrosion

Refer to Section III of this report for the complete results of the laboratory testing. The samples will be stored for 30 days from the date of issue of this report, and then disposed of unless otherwise instructed in writing by the client.

## 4.0 SUBSURFACE CONDITIONS

### 4.1 Engineering Properties of the Site Soils

Expansive soils are soils that expand or swell and are typically known to have a shrink/swell potential. Cohesive soils, or clayey soils, tend to shrink as they are dried, and swell as they become wetted. The clay content of the soil determines the extent of the shrink/swell potential. The surficial and subsurface soils encountered at the site are considered cohesionless based on the laboratory testing (i.e. plasticity index of 3). This firm has determined that the potential for expansion for the surface and subsurface soils is low.

Collapsible soils are typically comprised of silt and sand size grains with small amounts of clay. The collapse potential of a soil depends on the in-situ density, depth of the deposit and the extent of a porous structure. When loading is applied to collapsible soils, originating from the weight of the structure, along with wetting, settlement occurs. Wetting sources are most commonly associated with landscape irrigation, inadequate surface drainage, utility line leakage, proximity of retention basins and water features to a structure, and long-term ponding next to the structure. Based on standard penetration testing and laboratory test data, the existing surface soils encountered at the site are considered to have a low potential for collapse and excessive differential soil movement.



#### 4.2 Soil Sulfate Content

Laboratory test data revealed that the sulfate content in the site soil is 0.058 percent at the location of TB-1. This suggests a negligible potential for sulfate exposure per Table 2 (Adapted from Reference 2-20 and ACI 318, Table 4.5.3). However, this firm recommends the use of **Type V cement with air entrainment** in all concrete applications.

Table 2: Sulfate Content

Sulfate Exposure	Water-soluble sulfate (SO <sub>4</sub> ) in soil, percent by weight	Sulfate (SO <sub>4</sub> ) in water, ppm	Cement type
Negligible	0.00-0.10	0-150	Type II
Moderate*	0.10-0.20	150-1500	II, IP(MS), IS(MS), P(MS), I(PM)(MS), I(SM)(MS)
Severe	0.20-2.00	1500-10,000	V
Very Severe	Over 2.00	Over 10,000	V plus pozzolan**

\*Seawater

\*\*Pozzolan that has been determined by test or service record to improve sulfate resistance when used in concrete containing Type V cement

#### 4.3 Soil Chloride Content

The laboratory test result for chloride concentration of the subgrade soil was determined to be 116 ppm at the location of TB-1.

#### 4.4 pH Testing

Based on the laboratory test results included in Section III, and the information presented in the following table, the site soils have a low potential for corrosion with respect to pH (tested value is 8.72).

Table 3: pH Content

Potential for Corrosion	pH
Low	6.5 – 9.5
Moderate	3.5 – 6.5 or > 9.5
High	< 3.5

#### 4.5 Groundwater

No groundwater was encountered during our site investigation.

#### 4.6 Frost Depth

The elevation of the subject site is approximately 7000 feet corresponding to a potential frost depth of 2.0 feet. This frost depth indicates a minimum surface-level foundation embedment depth of 2.5 feet for foundations bearing on soil.



## 5.0 RECOMMENDATIONS

The recommendations contained herein are based upon the properties of the surface and subsurface soils as described by the field evaluation, the results of which are presented and discussed in this report. Alternate recommendations may be possible and will be considered upon request.

### 5.1 Excavating Conditions

Excavations extending to a depth of 10.0 feet should be possible with conventional excavating equipment. Heavier excavating equipment will be necessary for effective material removal below a depth of 10.0 feet and above 24.0 feet due to the presence of very dense/hard soils. The subsurface soils, above a depth of 15.0 feet and below a depth of 24.0 feet, will be susceptible to sloughing if allowed to dry significantly and stand vertically. As such, appropriate measures should be taken during construction to avoid mishaps associated with sloughing. With regard to drilled shaft foundations, such measures may include the use of steel casing or bentonite slurry.

Excavations greater than 4.0 feet should be sloped or braced as required to provide personnel safety and satisfy local safety code regulations. Temporary construction slopes should be designed and excavated in strict compliance with the rules and regulations of the Federal Register, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA), 29 CFR, Part 1926. This document was prepared to better insure the safety of workers entering trenches or excavations, and requires that all excavations conform to new OSHA guidelines. The contractor is solely responsible for protecting excavations by shoring, sloping, benching or other means as required to maintain stability of both the excavation sides and bottom.

Vann Engineering, Inc. does not assume any responsibility for construction site safety or the activities of the contractor.

### 5.2 Site Preparation

The following recommendations are presented as a guide in the compilation of construction specifications. The recommendations are not comprehensive contract documents and should not be utilized as such. **The following earthwork recommendations are predicated on spread fill remaining in place**

It is recommended that any vegetation, gravel, and all other deleterious matter within the proposed building area, be removed prior to site work. Although underground facilities such as septic tanks, cesspools, basements, and dry wells were not encountered, such features might be encountered during construction.

Following the removal of the above mentioned, a minimum of 8.0 inches of the surface soils should be scarified, moisture processed and compacted as specified herein beneath proposed structure and pavement areas. The scarification and compaction requirement applies to cut situations as well as fill situations.

Any site cut site soils may be reused as structural supporting fill provided that all vegetation and debris has been removed, the maximum particle size is 3.0 inches, and that a suitable amount of fines will be generated to ensure a stable mixture.



Complete removal and cleaning of any undesirable materials and proper backfilling of depressions will be necessary to develop support for the proposed facilities. Widen all depressions as necessary to accommodate compaction equipment and provide a level base for placing any fill. All fills shall be properly moistened and compacted as specified in the section on compaction and moisture recommendations. All subbase fill required to bring the structure areas up to subgrade elevation should be placed in horizontal lifts not exceeding 6.0 inches compacted thickness or in horizontal lifts with thicknesses compatible with the compaction equipment utilized.

Fill placement in wash areas, pit and trench areas, or sloped topography should involve horizontal layers placed in 6-inch lifts; such that each successive lift is benched into the native site soils a minimum lateral distance of 5.0 feet.

It is the understanding of this firm that various utility trenches may traverse the completed pad. The backfill of all utility trenches, if not in conformance with this report, may adversely impact the integrity of the completed pad. This firm recommends that all utility trench backfill crossing the pads be inspected and tested to ensure full conformance with this report. Untested utility trench backfill will nullify any as-built grading report regarding the existence of controlled compacted fill beneath the proposed building foundations and place the owner at greater risk in terms of potential unwanted foundation and floor slab movement.

Compaction of backfill, subgrade soil, subbase fill, and base course materials should be accomplished to the following density and moisture criteria prior to concrete placement:

**Table 4: Compaction Requirements**

Material	Building Area	Percent Compaction (ASTM D698)	Compaction Moisture Content Range (%)
On-site native and fill soils with PI ≥ 15	Below Foundation Level	95 min	optimum to optimum +4
	Above Foundation Level	85 - 90	optimum to optimum +4
On-site native and fill soils with 12 ≤ PI < 15	Below Foundation Level	95 min	optimum -1 to optimum +3
	Above Foundation Level	92 - 97	optimum to optimum +4
On-site native and fill soils with PI < 12	Below Foundation Level	95 min	optimum -2 to optimum +2
	Above Foundation Level	95 min	optimum -2 to optimum +2
Imported fill material	Below Foundation Level	95 min	optimum -2 to optimum +2
	Above Foundation Level	95 min	optimum -2 to optimum +2
Base course	Below Concrete Slabs	95 min	-

Any soil disturbed during construction shall be compacted to the applicable percent compaction as specified herein. Increase the required degree of compaction to a minimum of 98 percent for fill materials greater than 5.0 feet below final grade. Natural undisturbed soils or compacted soils subsequently disturbed or removed by construction operations should be replaced with materials compacted as specified above.

All imported (engineered) fill material to be used as structural supporting fill should be free of vegetation, debris and other deleterious material and meet the following requirements:



**Table 5: Imported Fill Requirements**

Soil Parameter	Requirement
Plasticity Index:	14 (Maximum)
Particle Size:	3 inches (Maximum)
Passing #200 Sieve:	60 percent (Maximum)
Expansion Potential <sup>1</sup> :	1.5 % (Maximum)
Sulfates:	0.19 % (Maximum)

<sup>1</sup>Performed on a sample remolded to 95 percent of the maximum ASTM D698 density at 2 percent below the optimum moisture content, under a 100 PSF Surcharge.

Water settling and/or slurry shall not, in any case, be used to compact or settle surface soils, fill material, or trench backfill within 10.0 feet of a structure area or within an area, which is to be paved. When trench backfill consists of permeable materials that would allow percolation of water into a structure or pavement area, water settling shall not be used to settle such materials in any part of the trench.

### 5.3 Fill Slope Stability

Maximum fill slopes may conform to a 2:1 (horizontal:vertical) ratio if fill is placed in accordance with the recommendations contained herein.

### 5.4 Site Classification

This project is not located over any known active faults or fault associated disturbed zones. The 2012 IBC Site Classification **D** may be utilized in the earthquake design of the proposed structure.

### 5.5 Conventional Surface Level Spread Foundations

Conventional spread-type footings appear feasible for support of the CMU walls and any equipment cabinets at the site. 2.0 feet and 1.33 feet are recommended as the minimum width of spread and continuous footings, respectively. All foundations bearing on native undisturbed soil must be embedded a minimum depth of 2.5 feet. The following table may be used in the design of shallow spread foundations for the proposed structures.

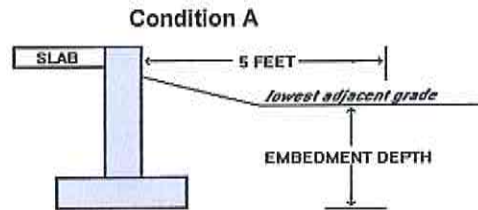
**Table 6: Conventional Surface Level Foundations**

Foundation Embedment Depth <sup>1</sup>	Bearing Stratum <sup>2</sup>	Allowable Soil Bearing Capacity <sup>3</sup>
2.5 Feet	Native Undisturbed Soil	2000 PSF
3.0 Feet	Native Undisturbed Soil	2250 PSF
3.5 Feet	Native Undisturbed Soil	2500 PSF

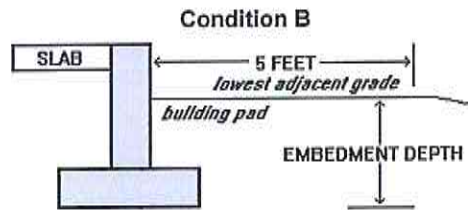
<sup>1</sup>Conditions for foundation embedment depth:

- a) The depth below the lowest adjacent exterior pad grade within 5.0 feet of proposed exterior walls;





- b) The depth below finish compacted pad grade provided that a sufficient pad blow-up (the lateral extent to which the building pad is constructed beyond the limits of the exterior walls or other structural elements, inclusive of exterior column foundations) has been incorporated into the grading and drainage design (5.0 feet or greater);



- c) The depth below finish floor level for interior foundations.

<sup>2</sup>Refers to the soil layer that the footing pad rests on, and does not mean to imply that the foundation be fully embedded into that particular stratum.

<sup>3</sup>The allowable soil bearing capacity value and associated allowable loads are based on a total settlement of  $\frac{1}{2}$ -inch and a differential settlement of  $\frac{1}{4}$ -inch. The maximum estimated footing settlements (in situ) should be within tolerable limits of  $\frac{1}{2}$ -inch if constructed in accordance with the recommendations contained in this report and a reasonable effort is made to balance loads on the footings

The weight of the foundation below grade may be neglected in dead load computations. The above recommended bearing capacities should be considered allowable maximums for dead plus design live loads. Shallow foundations that are adjacent to lower foundation areas must be stepped down so that their base is below the lower backfill materials, and below a line projected upward from the nearest lower foundation edge at a 45-degree angle. The allowable bearing for the foundation toe may be increased by a factor of 1.33 for resistance to temporary lateral loads and/or eccentric loading.

In no case should ancillary structures be designed or constructed, whose foundations will bear into deeper, non-verified backfills. We recommend that continuous footings and stem walls are reinforced and bearing walls be constructed with frequent joints to better distribute stresses in the event of localized foundation movements. Similarly, all masonry walls should be constructed with both vertical and horizontal reinforcement.

It is strongly recommended that all foundation excavations be inspected (prior to the placement of reinforcing steel) by a representative of the Vann Engineering, Inc. project geotechnical engineer or their representative to ensure that they are free of loose soil which may have blown or sloughed into the excavations, the embedment depth is adequate, and the dimensions are in accordance with the project requirements. It will also be necessary for this person to verify that the footings bearing on native undisturbed soil are embedded at the minimum foundation depth of 2.5 feet for an allowable soil bearing capacity of 2000 psf.



Code compliant concrete with **Type V cement with air entrainment** should be used for the foundations. A maximum 4-inch slump should be used for the footings.

## 5.6 Lateral Stability Analyses

All on-site retaining walls must be designed to resist the anticipated lateral earth pressures. Unrestrained (free-end) retaining walls should be designed for active earth pressures ( $K_a$ ) and are assumed to allow small movement of the wall. Restrained (fixed-end) retaining walls should be designed for at-rest earth pressures ( $K_o$ ) with no assumed wall movement. Soil or rock present in front of the toe of the retaining wall will provide resistance to movement and should be modeled as passive earth pressure ( $K_p$ ). The following presents recommendations for lateral stability analyses for engineered fill and native undisturbed soil for surface level foundations and above-grade retaining walls:

**Table 7: Lateral Stability**

Parameter	Wall Type	Native Undisturbed Soil & Engineered Fill
Active ( $K_a$ ) Pressure <sup>1</sup>	Free-end	34 psf/ft
At-Rest ( $K_o$ ) Pressure <sup>1</sup>	Fixed-end <sup>2</sup>	52 psf/ft
Passive ( $K_p$ ) Resistance	Free-end/Fixed-end independent of base friction	358 psf/ft
	Fixed-end in conjunction with base friction	240 psf/ft
Coefficient of Base Friction ( $\mu$ )	Free-end/Fixed-end independent of passive resistance	0.62
	Free or Fixed-end in conjunction with passive resistance	0.42

<sup>1</sup>Equivalent fluid pressures for vertical walls and horizontal backfill surfaces (*maximum 12.0 feet in height*). Pressures do not include temporary forces during compaction of the backfill, expansion pressures developed by over-compacted clayey backfill, hydrostatic pressures from inundation of backfill, or surcharge loads. Walls should be suitably braced during backfilling to prevent damage and excessive deflection.

<sup>2</sup>The backfill pressure can be reduced to the unrestrained lateral pressure if the backfill zone between the wall and cut slope is a narrow wedge (*width less than 1/2 the height*)

The equivalent fluid pressures presented herein do not include the lateral pressures arising from the presence of:

- Hydrostatic conditions, submergence or partial submergence
- Sloping backfill, positively or negatively
- Surcharge loading, permanent or temporary
- Seismic or dynamic conditions

We recommend a free-draining soil layer or manufactured geosynthetic material, be constructed adjacent to the back of any retaining walls serving as basement walls. A filter fabric may be required between the soil backfill and drainage layer. The drainage zone should help prevent development of hydrostatic pressure on the wall. This vertical drainage zone should be tied into a gravity drainage system at the base of the wall.



Fill against footings, stem walls, and any retaining walls should be compacted to the densities specified in Site Preparation. High plasticity clay soils should not be used as backfill against retaining walls. Compaction of each lift adjacent to walls should be accomplished with hand-operated tampers or other lightweight compactors. Overcompaction may cause excessive lateral earth pressures that could result in wall movements.

## 5.7 Drilled Shaft Foundations

As previously stated, excavations extending to a depth of 10.0 feet should be possible with conventional excavating equipment. Heavier excavating equipment will be necessary for effective material removal below a depth of 10.0 feet and above 24.0 feet due to the presence of very dense/hard soils. The subsurface soils, above a depth of 15.0 feet and below a depth of 24.0 feet, will be susceptible to sloughing if allowed to dry significantly and stand vertically. As such, appropriate measures should be taken during construction to avoid mishaps associated with sloughing. With regard to drilled shaft foundations, such measures may include the use of steel casing or bentonite slurry.

The following table presents soil parameters to be used to analyze the stability of drilled shaft foundations:

**Table 8: Drilled Shaft Analysis Parameters**

Depth (ft) & Soil Description	K Soil Modulus (pci)	S <sub>u</sub> Undrained Shear Strength (psf)	Cohesion* (psf)	φ Internal Friction Angle	γ Soil or Rock Unit Weight (PCF)	Allowable Side/Skin Friction (ksf)	N-Value	K <sub>a</sub>	K <sub>p</sub>	E <sub>so</sub>
3 to 10 Feet Dense SP-SM	225	0	0	34	105	0.25	34	0.2827	3.5371	
10 to 15 Feet Very Dense SP-SM	350	0	0	37	115	0.50	53	0.2486	4.0228	
15 to 24 Feet Hard CL	2000	4000	2000	36	110	0.90	46	0.2596	3.8518	0.005
Below 24 Feet Med. Dense SM, SC	90	0	0	32	110	0.30	30	0.3073	3.2546	

\*Do not use this value in LPILE. For LPILE use the value for S<sub>u</sub> if and only if the length to diameter ratio is at least 4.0

Lateral stability may be evaluated with a computer program known as LPILE plus Version 5.0 or higher, assuming the length to diameter ratio (L/D) is at least 4.0. If the L/D is less than 4.0, a Brom's analysis should be performed to analyze lateral stability. Vertical settlement of the drilled shaft due to axial loading is anticipated to be less than 0.25 inches. In addition to neglecting the surface 3.0 feet of soil, the weight of the foundation below grade was not considered in the design of the drilled shaft. The embedment depth refers to the depth below the existing site elevation.

Prior to the placement of reinforcing steel or concrete, all drilled shaft excavations should be examined by the project geotechnical engineer or a representative thereof. The excavations should be inspected for location, plumb, amount of loose and/or compressible material in the bottom of the excavation, and the depth and diameter of the shaft. Formal permission to proceed with construction should subsequently be given in a timely manner.



Unless otherwise specified in the project specifications, the excavation for a drilled shaft should be made so that the axis of the shaft at the top of the shaft is no more than 2 inches from its plan location. In addition, the drilled shaft should be within 2 percent of plumb for the total length of the shaft, with plumb measured from the as-constructed position of the top of the excavation, provided the excavation meets the first tolerance noted above. The top elevation of the shaft should be no more than 1.0 inch above or 3.0 inches below the plan elevation and the diameter of the drilled shaft should be no less than the plan dimension.

The clear spacing between bars of the rebar cage shall be at least three times the size of the maximum coarse aggregate. Heavy coatings of rust, chemicals, or other surface contaminants (including soil) must be removed before placement. The concrete should be designed, from a strength standpoint, so that the slump during placement is in the range of 4.0 to 6.0 inches. Admixtures and retarders are not recommended for use in the concrete for the drilled shafts.

Steps should be taken to prevent an appreciable loss of concrete slump during placement and excessive concrete shrinkage subsequent to placement. Concrete should be placed through a hopper or other device approved by the project geotechnical engineer so that it is channeled in such a manner to free fall and clears the walls of the excavation and reinforcing steel until it strikes the bottom. Adequate compaction will be achieved by free fall of the concrete up to the top 5.0 feet. The top 5.0 feet of concrete should be vibrated internally in order to achieve proper compaction.

As mentioned previously, continuous observation of the construction of drilled shafts should be carried out by the geotechnical engineer or a representative thereof. They should also verify proper diameter, depth, and cleaning, and should verify the nature of materials encountered in the shaft excavations.

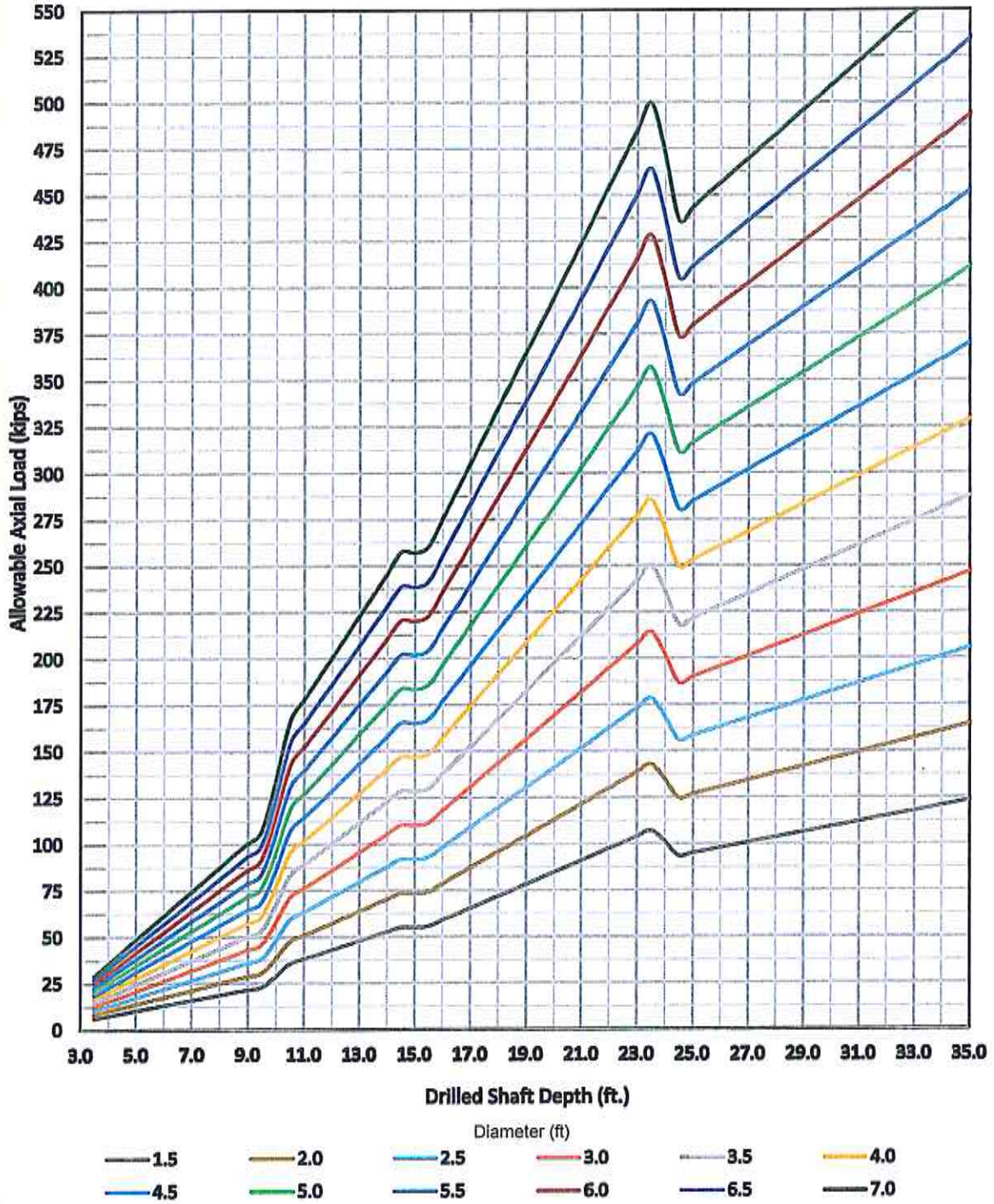
Concrete placement should be continuously observed to ensure that it meets requirements. A quality control report should be submitted on each shaft, stating, in writing, that all details have been observed and requirements were met.

Code compliant concrete with **Type V cement with air entrainment** should be used for the drilled shafts. A maximum 4-inch slump should be used for drilled shafts.

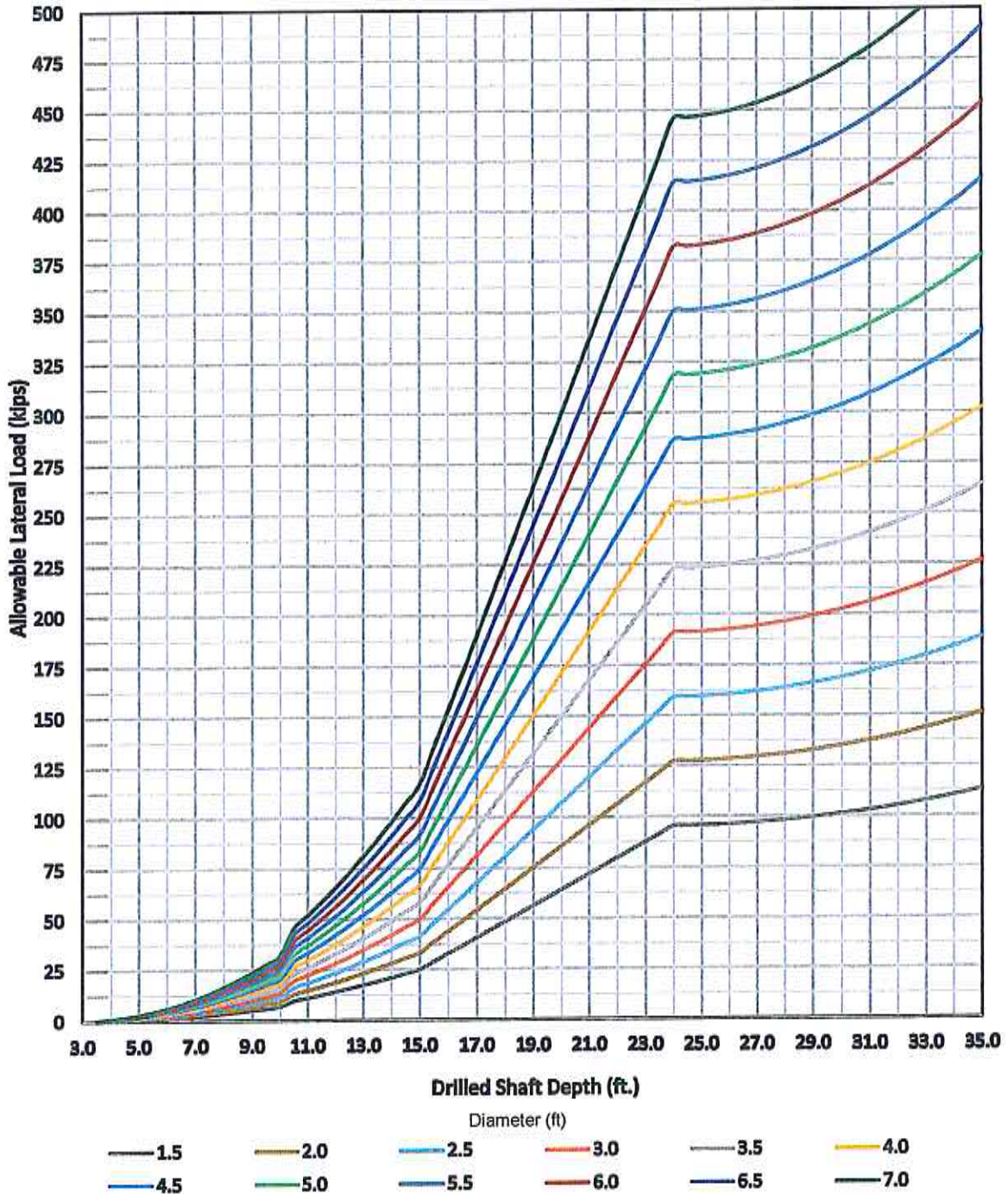
The following graphs present the allowable axial capacity, allowable lateral load, allowable maximum moment, and allowable uplift capacity versus depth for various shaft diameters ranging from 1.5 to 7.0 feet, extending to a depth of 35.0 feet.



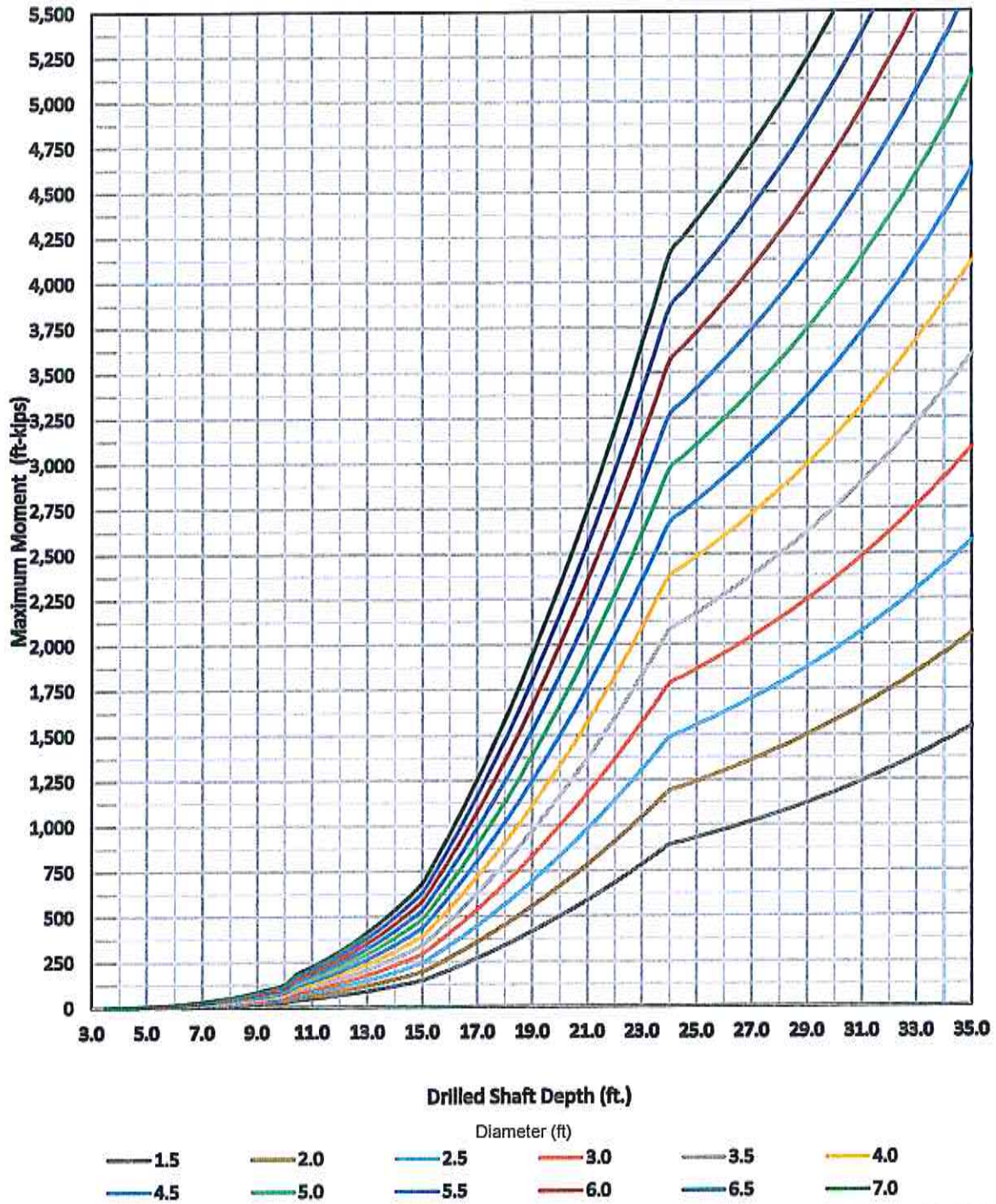
### Allowable Axial Load vs. Shaft Depth



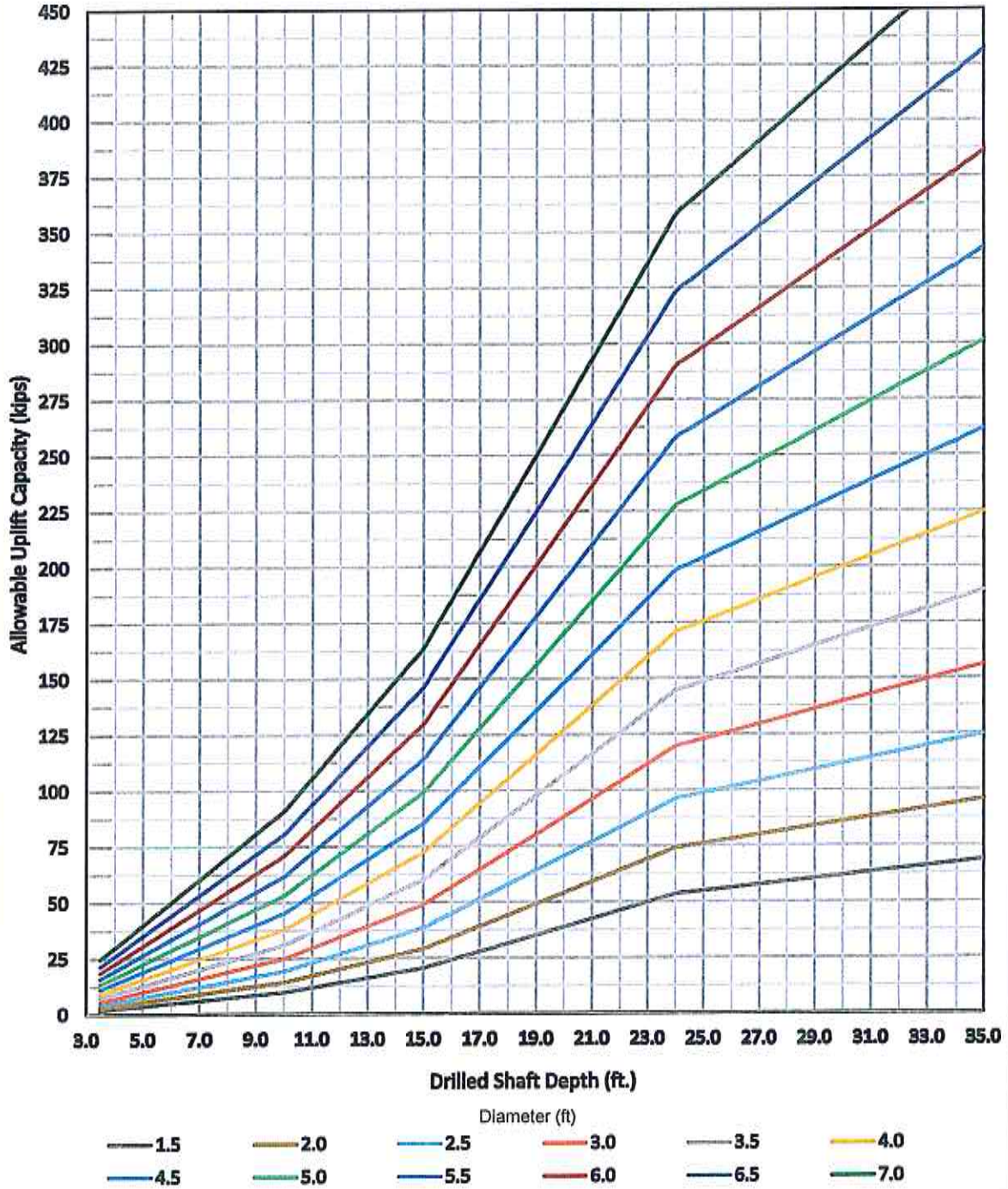
### Allowable Lateral Load vs. Shaft Depth



### Maximum Moment Capacity vs. Shaft Depth



### Allowable Uplift Capacity vs. Shaft Depth



### 5.8 Mat Foundation for the Tower

A foundation system comprised of a mat footing, with a minimum embedment depth of 5.0 feet, may also be used to support the proposed tower. Please refer to the following table, which presents the allowable soil bearing capacity versus embedment depth for ½-inch total settlement, with ¼-inch differential settlement; and 1.0-inch total settlement, with ½-inch differential settlement.

**Table 9: Mat Foundations**

Foundation Depth <sup>1</sup>	Bearing Stratum <sup>2</sup>	Allowable Soil Bearing Capacity	
		½-inch Total & ¼-inch Differential Settlement	1.0-inch Total & ½-inch Differential Settlement
5.0 Feet	Native Undisturbed Soil	3250 PSF	6500 PSF
5.5 Feet	Native Undisturbed Soil	3500 PSF	7000 PSF
6.0 Feet	Native Undisturbed Soil	3750 PSF	7500 PSF
6.5 Feet	Native Undisturbed Soil	4000 PSF	8000 PSF
7.0 Feet	Native Undisturbed Soil	4250 PSF	8500 PSF
7.5 Feet	Native Undisturbed Soil	4500 PSF	9000 PSF

<sup>1,2</sup>Please refer to footnote 1 and 2 from Table 6 for conditions for foundation embedment depth and bearing stratum

The individual spread foundation should be covered with enough backfill so that the concrete and the overburden soil weight are adequate to resist the design uplift forces. An approximate unit weight of 110 PCF may be utilized to represent the backfill soils above the foundation.

Code compliant concrete with **Type V cement with air entrainment** should be used for mat foundations. A maximum 4-inch slump should be used for the footings.

### 5.9 Individual Spread-type Foundations for the Tower

A foundation system comprised of individual spread-type footings may also be used to support the proposed tower. Each individual spread foundation must have a minimum foundation embedment of 8.0 feet. Please refer to the following table, which presents the allowable soil bearing capacity versus embedment depth for ½ inch total settlement, with ¼ inch differential settlement; and 1.0-inch total settlement, with ½ inch differential settlement.

**Table 10: Individual Spread Foundations**

Foundation Depth <sup>1</sup>	Bearing Stratum <sup>2</sup>	Allowable Soil Bearing Capacity	
		½-inch Total Settlement, ¼-inch Differential Settlement	1.0-inch Total Settlement, ½-inch Differential Settlement
8.0 feet	Native Undisturbed Soil	4750 PSF	9500 PSF
8.5 feet	Native Undisturbed Soil	5000 PSF	10000 PSF <sup>3</sup>

<sup>1,2</sup>Please refer to footnote 1 and 2 from Table 6 for conditions for foundation embedment depth and bearing stratum

<sup>3</sup>Limiting Condition

Code compliant concrete with **Type V cement with air entrainment** should be used for individual spread foundations. A maximum 4-inch slump should be used for the footings.



### 5.10 Slab Support for Equipment Slabs and Building Slabs

Based on the expected equipment loads and the expansion potential of the site soils, a 4.5-inch (full) slab should be utilized that is reinforced with #3 rebar spaced at 18.0 inches on center each way. A minimum of 2.0 inches of concrete slab must be exposed above the final site grade. A contact stress of 425 psf is expected by the equipment on the slab, which should easily be handled by the final subgrade conditions. A 30.0-inch embedded turndown should be incorporated into the slab design.

### 5.11 Drainage

The major cause of soil problems in this locality is moisture increase in soils below structures. Therefore, it is extremely important that positive drainage be provided during construction and maintained throughout the life of any proposed development. **In no case should long-term ponding be allowed near structures.** Infiltration of water into utility or foundation excavations must be prevented during construction. Planters or other surface features that could retain water adjacent to buildings should not be constructed. In areas where sidewalks or paving do not immediately adjoin structures, protective slopes should be provided with an outfall of at least 2 percent for at least 10 feet from perimeter walls.

Backfill against footings, exterior walls, retaining walls, and in utility or sprinkler line trenches should be well compacted and free of all construction debris to minimize the possibility of moisture infiltration through loose soil. Roof drainage systems, such as gutters or rain dispenser devices, are recommended all around the roof-line. Rain runoff from roofs should be discharged at least 5.0 feet from any perimeter wall or column footing. If a roof drainage system is not installed, rain-water will drip over the eaves and fall next to the foundations resulting in sub-grade soil erosion, creating depressions in the soil mass, which may allow water to seep directly under the foundations and slabs.

### 5.12 Landscaping Considerations

The potential for unwanted foundation and slab movements can often times be reduced or minimized by following certain landscape practices. The main goal for proper landscape design should be to minimize fluctuations in the moisture content of the soils surrounding the structure. In addition to maintaining positive drainage away from the structure, appropriate plant/tree selections and sprinkler/irrigation practices are extremely important to the long-term performance of the foundations and slabs. The conventional practice of planting near foundations is not recommended. Do not plant flowers and shrubs within 5.0 feet of any perimeter wall or column foundation. Ground cover plants with low water requirements may be acceptable for landscaping near foundations. Ground cover vegetation helps to reduce fluctuations in the soil moisture content. Limit the watering to the minimum needed to maintain the ground cover vegetation near foundations. For greater moisture control, water these areas by hand.

For planters and general landscaping, we recommend the following:

- Planters should be sealed
- Grades should slope away from the structures
- Only shallow rooted landscaping material should be used
- Watering should be kept to a minimum



Trees should be planted a minimum distance of 10.0 feet away from the foundation of the structure. Some trees may have extensive shallow root systems that may grow under and displace shallow foundations. In addition, tree roots draw moisture from the surrounding soils, which may exacerbate shrink/swell cycles of the surface soils. The amount of moisture drawn out of the soil will depend on the tree species, size, and location. If trees are planted well away from foundations in irrigated areas, the chances of foundation damage are greatly reduced. If irrigation/sprinkler systems are to be used, we recommended installing them all around the structure to provide uniform moisture throughout the year. The irrigation/sprinkler systems should spray no closer than 5.0 feet from the foundation. The sprinkler systems should be checked for leakages once per month. Significant foundation movements can occur if the soils under the foundations are exposed to a source of free water.

### **5.13 Foundations and Risks**

The factors that aid in the design and construction of lightly loaded foundations include economics, risk, soil type, foundation shape and structural loading. Most of the time, foundation systems are selected by the owner/builder, who as a result of economic considerations accepts higher risks in foundation design. It should be noted that some levels of risk are associated with all foundation systems and there is no such thing as a "zero-risk" foundation. It also should be noted that the foundation recommendations presented herein are not designed to resist soil movements as a result of sewer/plumbing leaks, excessive irrigation, poor drainage, or water ponding near the foundation system.

It is recommended that the owner/builder implement a foundation maintenance program to help reduce potential future unwanted foundation/slab movements throughout the useful life of the structure. The owner should conduct yearly observation of foundations and slabs and perform any maintenance necessary to improve drainage and minimize infiltrations of water from precipitation and/or irrigation. Irrigation/sprinkler systems should be periodically monitored for leaks and malfunctioning sprinkler heads, which should be repaired immediately. Post-construction landscaping should be carefully designed to preserve initial site grading.

## **6.0 ADDITIONAL SERVICES**

As an additional service, this firm would be pleased to review the project plans and structural notes for conformance to the intent of this report. Vann Engineering, Inc. should be retained to provide documentation that the recommendations set forth are met. These include but are not limited to documentation of site clearing activities, verification of fill suitability and compaction, and inspection of footing excavations. Relative to field density testing, a minimum of 1 field density test should be taken for every 2500 square feet of building area, per 6.0-inch layer of compacted fill. This firm possesses the capability of performing testing and inspection services during the course of construction. Such services include, but are not limited to, compaction testing as related to fill control, foundation inspections and concrete sampling. Please notify this firm if a proposal for these services is desired.

## **7.0 LIMITATIONS**

This report is not intended as a bidding document, and any contractor reviewing this report must draw their own conclusions regarding specific construction techniques to be used on this project. The scope of services carried out by this firm does not include an evaluation pertaining to environmental issues. If the lender requires these services, we would be most pleased to discuss



the varying degrees of environmental site assessments. This report is issued with the understanding that it is the responsibility of the owner to see that its provisions are carried out or brought to the attention of those concerned. In the event that any changes of the proposed project are planned, the conclusions and recommendations contained in this report shall be reviewed and the report shall be modified or supplemented as necessary. Prior to construction, we recommend the following:

1. Consultation with the design team in all areas that concern soils and rocks to ensure a clear understanding of all key elements contained within this report.
2. Review of the General Structural Notes to confirm compliance to this report and determination of which allowable soil bearing capacity has been selected by the project structural engineer (this directly affects the extent of earthwork and foundation preparation at the site).
3. This firm be notified of all specific areas to be treated as special inspection items (designated by the architect, structural engineer or governmental agency).

Relative to this firm's involvement with the project during the course of construction, we offer the following recommendations:

1. The site or development owner should be directly responsible for the selection of the geotechnical consultant to provide testing and observation services during the course of construction.
2. This firm should be contracted by the owner to provide the course of construction testing and observation services for this project, as we are most familiar with the interpretation of the methodology followed herein.



## DEFINITION OF TERMINOLOGY

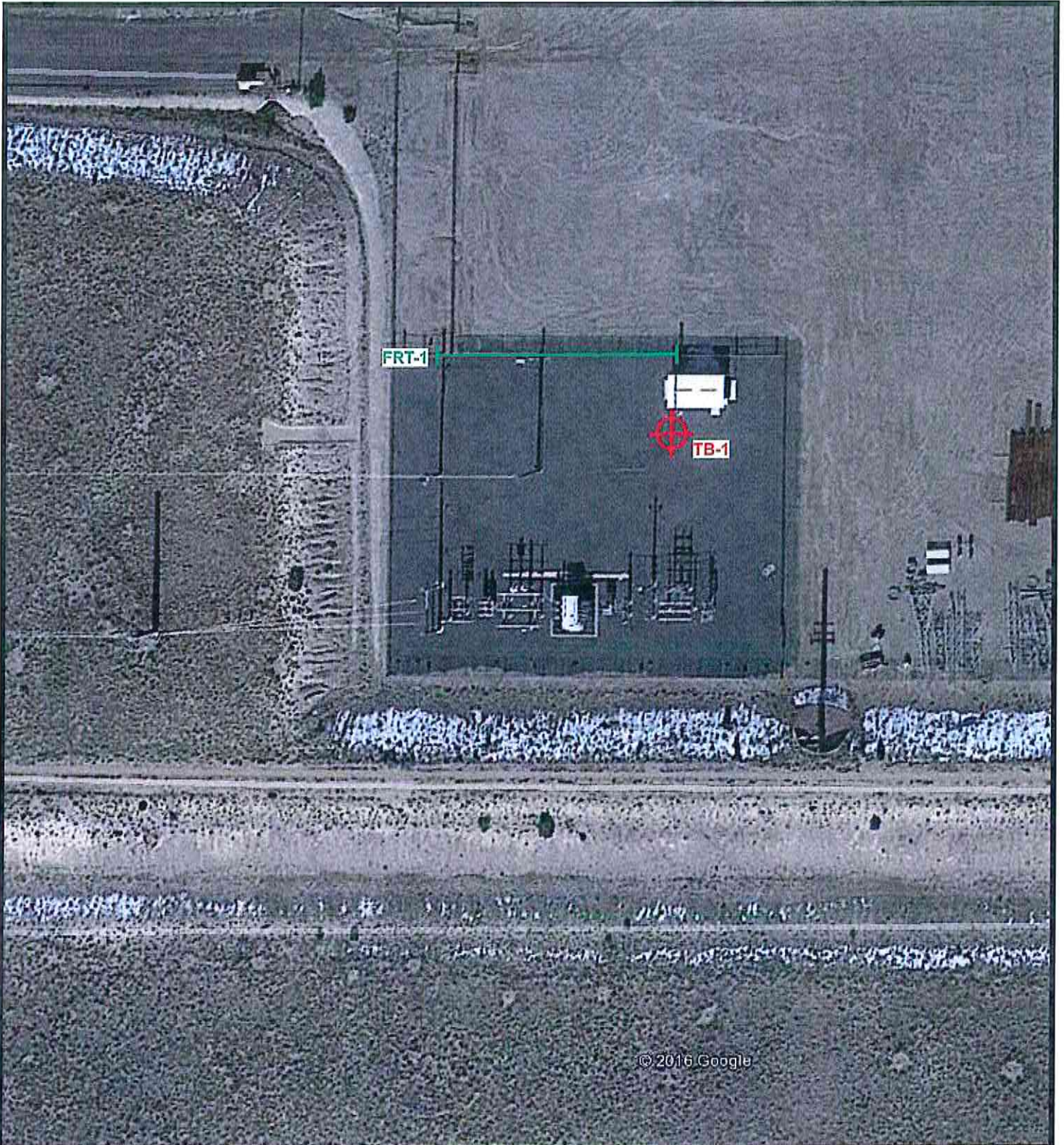
Allowable Soil Bearing Capacity Allowable Foundation Pressure	The recommended maximum contact stress developed at the interface of the foundation element and the supporting material.
Aggregate Base Course (ABC)	A sand and gravel mixture of specified gradation, used for slab and pavement support.
Backfill	A specified material placed and compacted in a confined area.
Base Course	A layer of specified material placed on a subgrade or subbase.
Base Course Grade	Top of base course.
Bench	A horizontal surface in a sloped deposit.
Caisson	A concrete foundation element cased in a circular excavation, which may have an enlarged base. Sometimes referred to as a cast-in-place pier.
Concrete Slabs-on-Grade	A concrete surface layer cast directly upon a base, subbase, or subgrade.
Controlled Compacted Fill	Engineered Fill. Specific material placed and compacted to specified density and/or moisture conditions under observation of a representative of a soil engineer.
Differential Settlement	Unequal settlement between or within foundation elements of a structure.
Existing Fill	Materials deposited through the action of man prior to exploration of the site.
Expansive Potential	The potential of a soil to increase in volume due to the absorption of moisture.
Fill	Materials deposited by the action of man.
Finish Grade	The final grade created as a part of the project.
Heave	Upward movement due to expansion or frost action.
Native Grade	The naturally occurring ground surface.
Native Soil	Naturally occurring on-site soil.
Overexcavate	Lateral extent of subexcavation.
Rock	A natural aggregate of mineral grains connected by strong and permanent cohesive forces. Usually requires drilling, wedging, blasting, or other methods of extraordinary force for excavation.
Scarify	To mechanically loosen soil or break down the existing soil structure.
Settlement	Downward movement of the soil mass and structure due to vertical loading.
Soil	Any unconsolidated material composed of disintegrated vegetable or mineral matter, which can be separated by gentle mechanical means, such as agitation in water.
Strip	To remove from present location.
Subbase	A layer of specified material between the subgrade and base course.
Subexcavate	Vertical zone of soil removal and recompaction required for adequate foundation or slab support
Subgrade	Prepared native soil surface.





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# SECTION II



**LEGEND:**



TEST BORING LOCATION



FIELD RESISTIVITY TEST LOCATION



SCALE: N.T.S.

DATE: 06/05/2017

**SITE PLAN**

PREPARED BY: ES

SPRINGVILLE SUBSTATION TOWER  
 PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
 34°18'36.10"N 109°09'43.80"W  
 SPRINGVILLE, ARIZONA

**PROJECT 25149**



# TB-1

Operator M. Mewhinney  
 Boring Date: 05/31/17  
 Boring Location: See Site Plan  
 Drilling Method: CME-55

Depth	Remarks	Moisture (%)	Dry Density	Blow Counts	Sample Type	Water Table
0						
0 - 2.0	Grab sample obtained from 2.0 to 3.0 feet	22/29				
2.0 - 15.0		16/24/29			SP-SM	
15.0 - 25.0		21/25/28			CL	
25.0 - 30.0		15/20/26			SP-SM	
30.0 - 35.0					SC	

FL	Gravel (2")
SP-SM	SPREAD FILL (21") slightly damp to damp, 30% gravel, 50% sand, 20% fines, poorly graded, subangular to subrounded coarse-grained particles, loose, PI of 4, no cementation Medium dense below 1.0 feet
	SILTY SAND, with gravel, some fines, grayish-brown, damp, 15% gravel, 75% sand, 10% fines, poorly graded, subangular to subrounded coarse-grained particles, dense to very dense, PI of 3, no cementation
	Slightly damp to damp, very dense, no to weak cementation below 10.0 feet
CL	SANDY CLAY, reddish-brown, damp, 35% sand, 65% fines, poorly graded, subangular to subrounded coarse-grained particles, hard, PI of 20+, weak to medium cementation Strong cementation below 16.0 feet
SP-SM	SILTY SAND, light-brown, slightly damp to damp, 90% sand, 10% fines, poorly graded, subrounded coarse-grained particles, medium dense, non-plastic, no cementation
SC	GRAVELLY CLAYEY SAND, brown to gray-brown, slightly damp to damp, 30% gravel, 45% sand, 25% fines, poorly graded, subrounded coarse-grained particles, medium dense to dense, PI of 8 to 10, medium cementation

TEST BORING DISCONTINUED AT 35.0 FEET

## LOG OF BORING

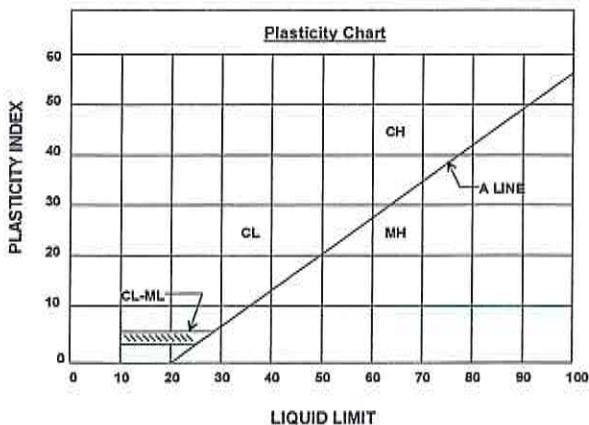
## FIELD RESISTIVITY TEST DATA

SPRINGERVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109°09'43.80"W  
SPRINGERVILLE, ARIZONA

<i>Sample Location</i>	<i>Resistivity Reading (R) (ohms)</i>	<i>Electrode Spacing (A) (feet)</i>	<i>Field Resistivity (ohm-cm)</i>
FR-1	10.40	2.5	4979
FR-1	3.51	5.0	3361
FR-1	1.67	10.0	3198
FR-1	0.92	20.0	3524
FR-1	0.46	40.0	3524

# LEGEND

Major Divisions		Group Symbol	Typical Names		
Coarse-Grained Soils (Less than 50% passes No. 200 sieve)	Gravels (50% or less or coarse fraction passes No. 4 sieve)	Clean Gravels (Less than 5% passes No. 200 sieve)		GW	Well graded gravels, gravel-sand mixtures, or sand-gravel-cobble mixtures.
				GP	Poorly graded gravels, gravel-sand mixtures, or sand-gravel-cobble mixtures.
		Gravels with Fines (More than 12% passes No. 200 sieve)	Limits plot below "A" line & hatched zone on Plasticity Chart.	GM	Silty gravels, gravel-sand-silt mixtures.
			Limits plots above "A" line & hatched zone on Plasticity Chart.	GC	Clayey gravels, gravel-sand-clay mixtures.
	Sands (More than 50% of coarse fraction passes No. 4 sieve)	Clean Sands (Less than 5% passes No. 200 sieve)		SW	Well graded sands, gravelly sands.
				SP	Poorly graded sands, gravelly sands.
		Sands with Fines (More than 12% passes No. 200 sieve)	Limits plots below "A" line & hatched zone on Plasticity Chart.	SM	Silty sands, sand-silt mixtures.
			Limits plots above "A" line & hatched zone on Plasticity Chart.	SC	Clayey sands, sand-clay mixtures.
Fine-Grained Soils (50% or more passes No. 200 sieve)	Silt-Plot below "A" line & hatched zone on Plasticity Chart	Silt of Low Plasticity (Liquid Limit Less Than 50)		ML	Inorganic silts, clayey silts with slight plasticity.
		Silt of High Plasticity (Liquid Limit More Than 50)		MH	Inorganic silts, micaceous or diatomaceous silty soils, elastic silts.
	Clays-Plot above "A" line & hatched zone on Plasticity Chart	Clays of Low Plasticity (Liquid Limit Less Than 50)		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		Clays of High Plasticity (Liquid Limit More Than 50)		CH	Inorganic clays of high plasticity, fat clays, sandy clays of high plasticity.
Note: Coarse grained soils with between 5% & 12% passing the No. 200 sieve and fine grained soils with limits plotting in the hatched zone on the Plasticity Chart to have double symbol.					



### DEFINITIONS OF SOIL FRACTIONS

SOIL COMPONENT	PARTICLE SIZE RANGE
Cobbles	Above 3 in.
Gravel	3 in. to No. 4 sieve
Coarse gravel	3 in. to 3/4 in.
Fine gravel	3/4 in. to No. 4 sieve
Sand	No. 4 to No. 200
Coarse	No. 4 to No. 10
Medium	No. 10 to No. 40
Fine	No. 40 to No. 200
Fines (silt or clay)	Below No. 200 sieve

## **TEST DRILLING EQUIPMENT & PROCEDURES**

### **Drilling Equipment**

VANN ENGINEERING INC uses a CME-55 drill-rig capable of auger drilling to depths of 150 feet in southwestern soils. The drill is truck-mounted for rapid, low cost mobilization to the jobsite and on the jobsite. The CME-55 owned by this firm is powered by a 300 cubic inch, 6-cylinder Ford industrial engine that produces 124 horsepower. This energy is transmitted through a rugged mechanical drive that provides 7,000 foot-lbs of torque on the drillstring. Two 72-inch hydraulic cylinders develop 16,000 lbs of downward thrust and 24,000 lbs of retractive force. Two hydraulic cable hoists and a mechanical cathead allow downhole sampling and testing at any depth to be accomplished with great speed and accuracy. For drilling operations, the truck is stabilized with platform mounted vertical hydraulic jacks with a 48-inch stroke. Drilling through soil or softer rock is performed with 6¾ inch O.D. hollow-stem, or 4½-inch continuous flight auger. Carbide insert teeth are normally used on the auger bits so they can often penetrate rock or very strongly cemented soils that require blasting or very heavy equipment for excavation. The operation of well-maintained equipment by an experienced crew allows VANN ENGINEERING INC to complete any type of drilling job with minimum downtime and maximum efficiency.

### **Sampling Procedures**

Dynamically driven tube samples are usually obtained at selected intervals in the borings by the ASTM D1586 procedure. In many cases, 2 inch O.D., 1⅜-inch I.D. samplers are used to obtain the standard penetration resistance. "Undisturbed" samples of firmer soils are often obtained with 3-inch O.D. samplers lined with 2.42 inch I.D. brass rings. The driving energy is generally recorded as a number of blows of a 140-pound hammer, utilizing a 30-inch free fall drop, per foot of penetration. However, in stratified soils, driving resistance is sometimes recorded in 2 or 3-inch increments so that soil changes and the presence of scattered gravel or cemented layers can be readily detected and the realistic penetration values obtained for consideration in design. These values are expressed in blows per foot on the logs. Undisturbed sampling of softer soils is sometimes performed with thin-walled Shelby tubes (ASTM D1587). Tube samples are labeled and placed in watertight containers to maintain field moisture contents for testing from auger cuttings.

### **Continuous Penetration Tests**

Continuous penetration tests are performed by driving a 2-inch O.D. blunt nosed penetrometer adjacent to or in the bottom of test borings. The penetrometer is attached to 1⅝-inch O.D. drill rods to provide clearance and thus minimize side friction so that penetration values are as nearly as possible a measure of end resistance. Penetration values are recorded as the number of blows of a 140 pound hammer, utilizing a 30-inch drop required to advance the penetrometer in one foot increments or less.

As an alternate, Cone Penetration Testing may be utilized in an effort to determine the point capacity of the cone tip, and skin friction measured on the cone sleeve.

### **Boring Records**

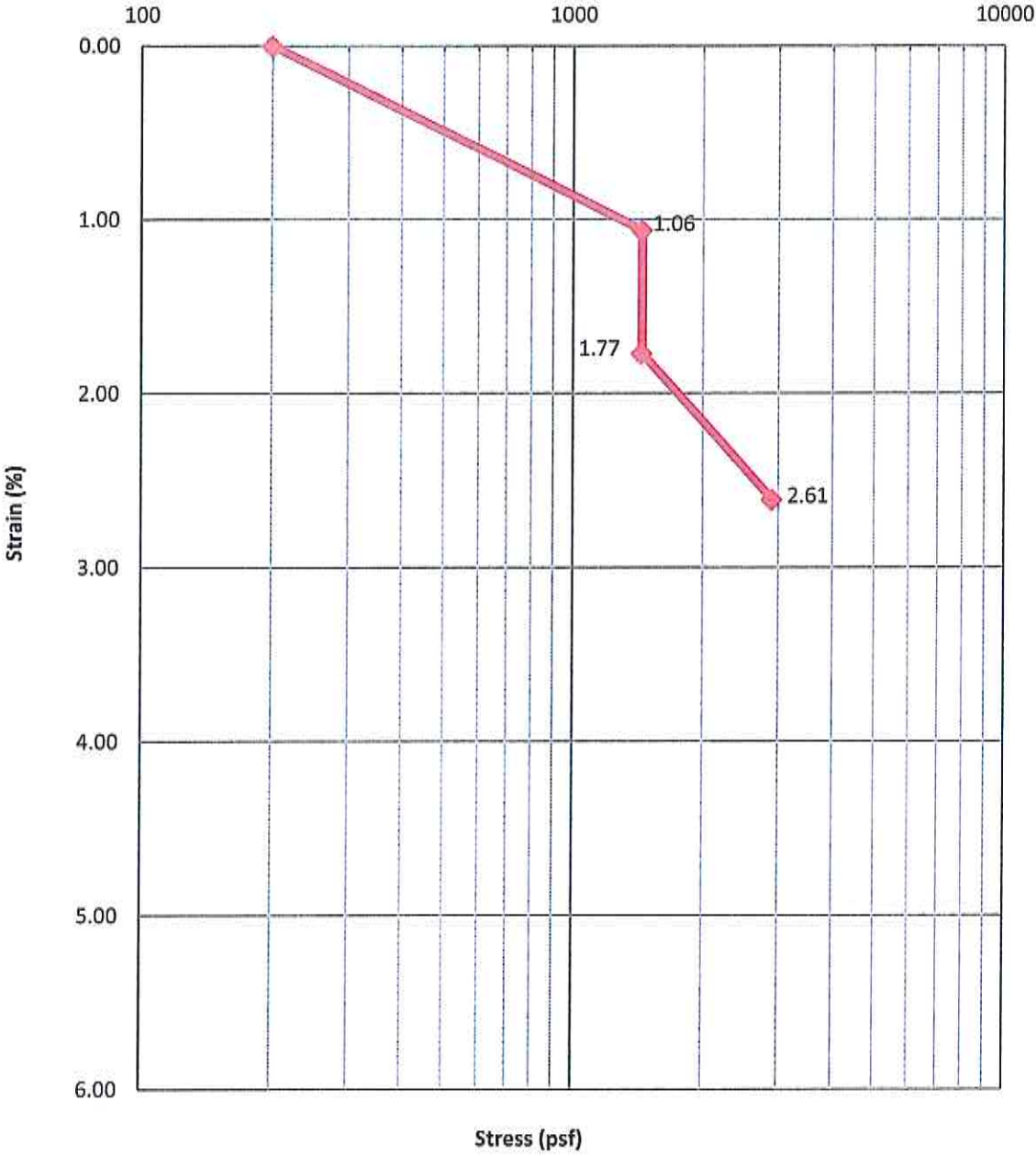
Drilling operations are directed by our field engineer or geologist who examines soil recovery and prepares boring logs. Soils are visually classified in accordance with the Unified Soil Classification System (ASTM D2487) with appropriate group symbols being shown on the logs.



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# **SECTION III**

# Response to Wetting Test Data Project 25149



◆ TB-1 (2.0'-3.0') Moisture Content: 6.3% Dry Density: 100.6 PCF

## CLASSIFICATION TEST DATA

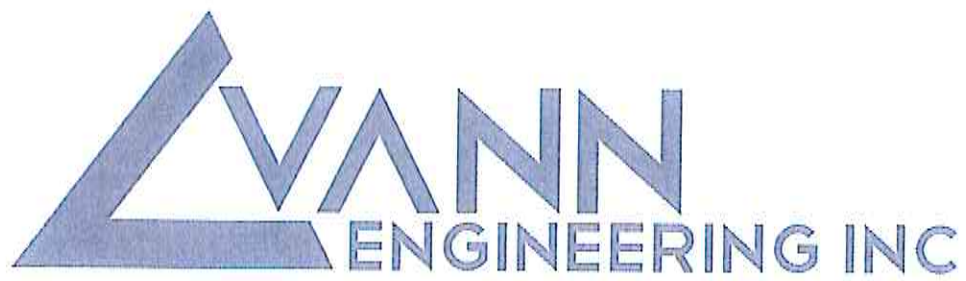
SPRINGVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109°09'43.80"W  
SPRINGVILLE, ARIZONA

Sample Location	Sieve Analysis (% Passing Sieve Size)								Atterberg Limits			Moisture Content %
	3"	2"	1"	#4	#10	#40	#100	#200	LL	PI	USCS	
TB-1 (2.0'-3.0')	-	-	100	84	67	36	-	12	23	3	SM	6.2

## ***CORROSION TEST RESULTS***

SPRINGERVILLE SUBSTATION TOWER  
PROPOSED 220'-240' TALL SELF-SUPPORT LATTICE TOWER  
34°18'36.10"N 109°09'43.80"W  
SPRINGERVILLE, ARIZONA

<b><i>Test Location and Test Interval</i></b>	<b><i>pH</i></b>	<b><i>Chlorides (ppm)</i></b>	<b><i>Sulfate (%)</i></b>
TB-1 (2.0'-3.0')	8.72	116	0.058



Geotechnical Engineering □ Enviromental Consulting □ Construction Testing & Inspection  
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Mail Processing Center  
 Federal Aviation Administration  
 Southwest Regional Office  
 Obstruction Evaluation Group  
 10101 Hillwood Parkway  
 Fort Worth, TX 76177

Aeronautical Study No.  
 2017-AWP-7864-OE

Issued Date: 08/21/2017

Anthony Lindsey  
 Navopache Electric Cooperative  
 1878 W White Mountain Blvd  
 Lakeside, AZ 85939

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Tower NEC TEP Rohn 240' Self Supporting Tower  
 Location: Springerville, AZ  
 Latitude: 34-18-36.06N NAD 83  
 Longitude: 109-09-44.42W  
 Heights: 6999 feet site elevation (SE)  
 240 feet above ground level (AGL)  
 7239 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 1, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 02/21/2019 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (202) 267-4525, or david.maddox@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-AWP-7864-OE.

**Signature Control No: 339146522-341353223**

( DNE )

David Maddox  
Specialist

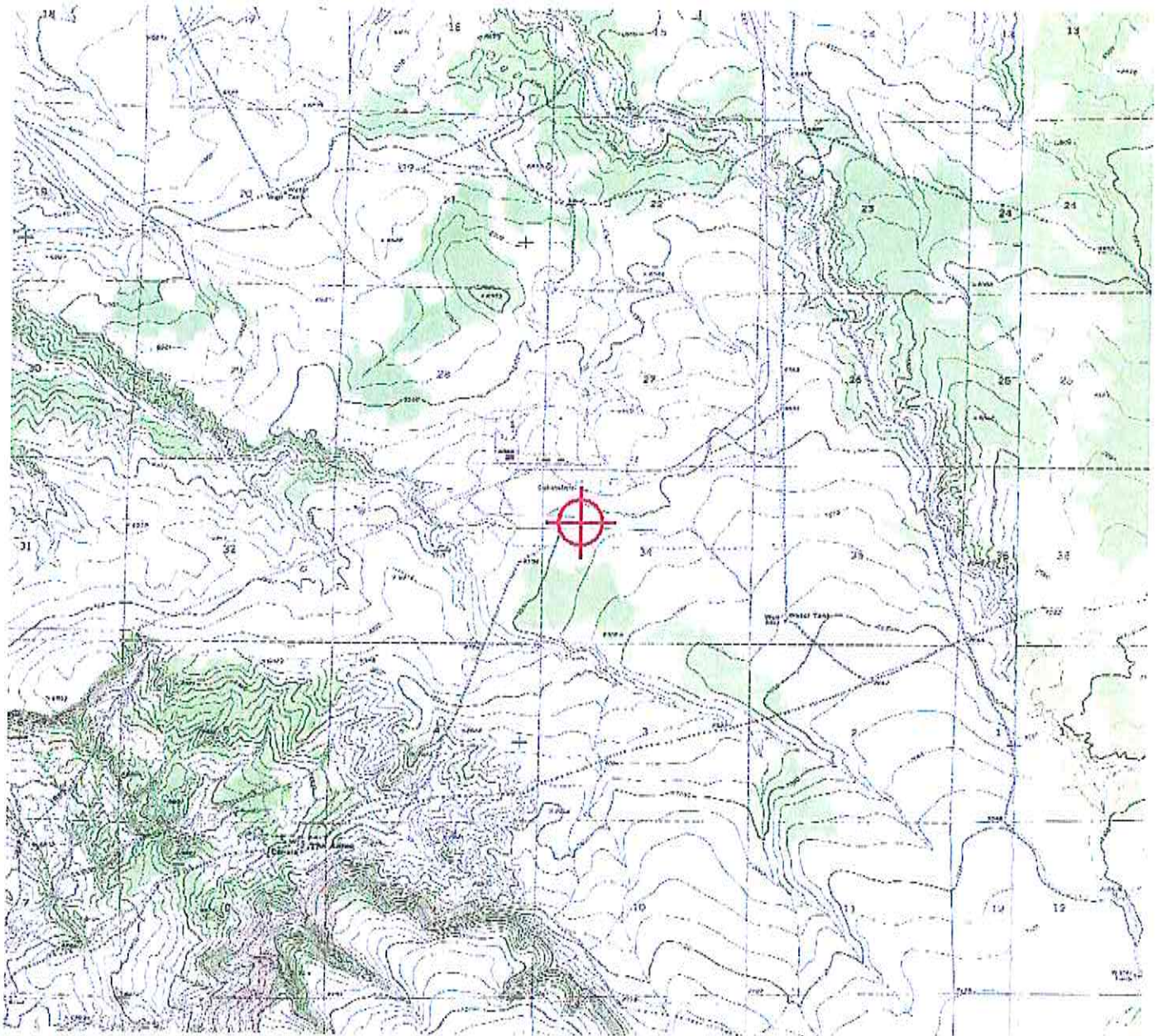
Attachment(s)  
Frequency Data  
Map(s)

cc: FCC

Frequency Data for ASN 2017-AWP-7864-OE

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
5974.85	6226.89	MHz	64.4	dBm
10795	11285	MHz	67.5	dBm

TOPO Map for ASN 2017-AWP-7864-OE





1 Fairholm Avenue  
Peoria, IL 61603 USA  
Phone 309-566-3000  
FAX 309-566-3079

August 1, 2017

CMI Microwave  
Attn: Charles McDonald  
717 N 21<sup>st</sup> Ave  
Phoenix, AZ 85009

Reference: 240 FT SSMW Self Support Tower  
Springer Tep Gen, AZ

File Number: 222564

Enclosed, please find the following for your use:

<u>Copies</u>	<u>Drawing Number</u>	<u>Description</u>
1	222564-01-D1	Design Drawing Sealed for the State of Arizona
1	222564-01-F1	Foundation

Contact phone number: 602-357-4646

Email Only: [cmcdonald@cmimicrowave.com](mailto:cmcdonald@cmimicrowave.com)

Sincerely,

JD Long

jd



1 Fairholm Avenue  
Peoria, IL 61603 USA  
Phone: (309)-566-3000  
Fax: (309)-566-3079

**DATE:** AUGUST 01, 2017

**PURCHASER:** CMI MICROWAVE

**PROJECT:** 240 FT SSMW SELF SUPPORT TOWER  
SPRINGER TEP GEN, ARIZONA

**FILE NUMBER:** 222564

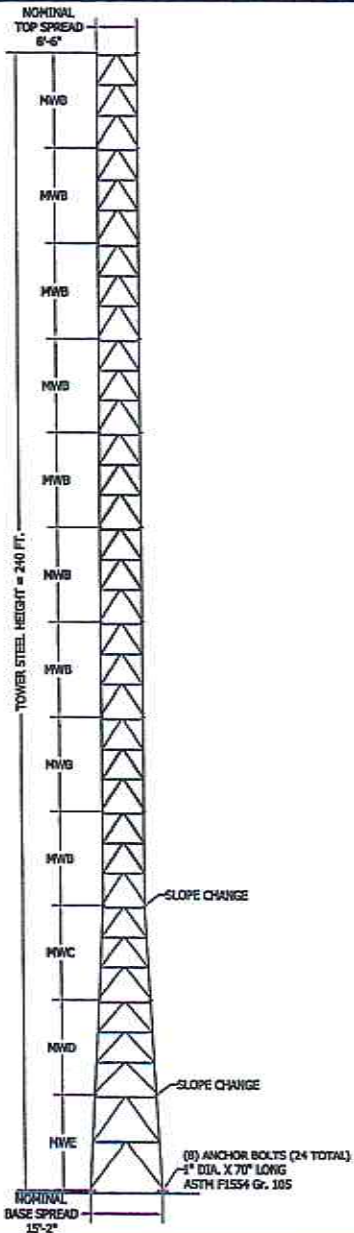
**DRAWINGS:** 222564-01-D1, 222564-01-F1

I CERTIFY THAT THE REFERENCED DRAWINGS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE DESIGN AND LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ARIZONA.

**CERTIFIED BY:**   
**DATE:** 6/1/17



*EXPIRES 6/30/2018*



TOWER DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA-222-G: ULTIMATE WIND SPEED (NO ICE) = 115 MPH PER ASCE 7-10 BASIC WIND SPEED (3SE) = 30 MPH DESIGN ICE THICKNESS = 0.25 IN. STRUCTURE CLASS = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: SS = 0.242		
THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
240	BEACON AND LIGHTNING ROD	(1) 3/4" CONDUIT
230	(1) HP4 DISH (AZ. 85 DEG.)	(2) LMR400
230	(2) ODU RADIOS	
220	(1) HP6 DISH (AZ. 240 DEG)	(2) EW63
208	(1) HP6 DISH (AZ. 110 DEG)	(1) EW63
182	(1) HP6 DISH (AZ. 110 DEG)	(1) EW63
100	(1) HP4 DISH (AZ. 248 DEG)	(2) LMR400
100	(2) ODU RADIOS	

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEG	DIAGONAL	HORIZONTALS
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 2.875x0.203	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 3.500x0.216	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 4.500x0.237	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 5.563x0.258	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 5.563x0.375	PIPE 2.375x0.154 (3)	PIPE 1.900x0.145 (3)
MWB	PIPE 6.625x0.340	PIPE 2.375x0.154 (3)	PIPE 2.375x0.154 (3)
MWB	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 2.375x0.154 (3)
MWC	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 2.375x0.154 (3)
MWD	PIPE 6.625x0.432	PIPE 2.375x0.154 (3)	PIPE 2.375x0.154 (3)
HWE	PIPE 8.625x0.375	PIPE 2.875x0.203 (2)	PIPE 2.375x0.154 (2)

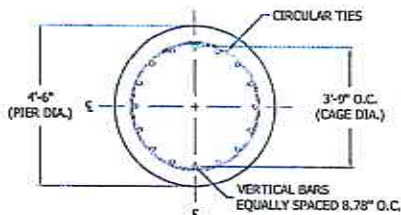
NOTE: SECTION NUMBERS ARE FOR REFERENCE ONLY. FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.  
THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

**GENERAL NOTES**

- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- STEP BOLTS ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI, EXCEPT AS NOTED BELOW:  
STRUCTURAL PLATES SHALL BE 36 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325, EXCEPT WHERE NOTED.
- PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ANSI/TIA-222-G.
- ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
- DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

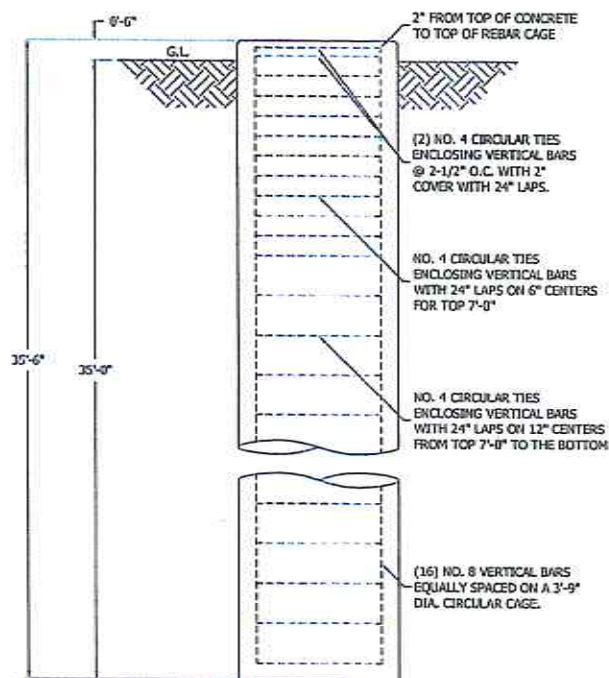
MAXIMUM FACTORED REACTIONS	
COMPRESSION	= 303.5 KIPS
TENSION	= 275.0 KIPS
TOTAL SHEAR	= 28.5 KIPS
O.T.M.	= 3,857.1 FT-KIPS

FILE NO. 222564			
REVISIONS			
REV	DESCRIPTION	DRWN	CHK APP
 PO BOX 5993 PECORIA, IL 61601-5999 TOLL FREE 800-727-ROHN			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
<b>CHI MICROWAVE          DESIGN PROJECT          240' SSMW TOWER DESIGN          SITE : SPRINGER TEP GEN, AZ</b>			
DRN:	CHKD: <i>HA</i>	DATE:	3/4/17
ENGR:	<i>HA</i>	SHEET #:	1 OF 1
PRJ. ENGR:		PRJ. MNGR:	
DRAWING NO. 222564-01-D1			REV: 0



NOTE:  
CAGE DIA. FROM CENTERLINE  
OF VERTICAL BARS.

**PLAN VIEW**  
N.T.S.



**ELEVATION VIEW**  
N.T.S.

**FACTORED REACTIONS/LEG**

DOWNLOAD = 303.5 KIPS  
 UPLIFT = 275 KIPS  
 SHEAR = 19.7 KIPS

**VOLUME OF CONCRETE**

(1) FOUNDATION 20.9 CU. YDS  
 (3) FOUNDATIONS 62.7 CU. YDS

**GENERAL NOTES:**

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 3.0 FT
  - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 3.0 FT TO 10.0 FT DEPTH = 333 PSF; 10.0 FT TO 15.0 FT DEPTH = 667 PSF; 15.0 FT TO 24.0 FT DEPTH = 1200 PSF; 24.0 FT TO 35.0 FT DEPTH = 400 PSF.
  - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 3.0 FT TO 10.0 FT DEPTH = 509 PSF; 10.0 FT TO 15.0 FT DEPTH = 1000 PSF; 15.0 FT TO 24.0 FT DEPTH = 1800 PSF; 24.0 FT TO 35.0 FT DEPTH = 600 PSF.
  - ULTIMATE NET END BEARING AT 35.0 FT = 12.00 KSF.
  - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPa) IN 28 DAYS. TYPE V CEMENT IS TO BE USED IN ALL CONCRETE.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 25149 DATED 6/13/2017 BY VANM ENGINEERING INC.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.
- DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO.		222564	
REVISIONS			
REV	DESCRIPTION	DATE	APP
PO BOX 5999 PEORIA, IL 61605-5999 TOLL FREE 800-727-ROHN			
<small>THIS DRAWING IS THE PROPERTY OF ROHN. IT IS TO BE USED FOR THE PROJECT AND NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF ROHN.</small>			
<b>CM MICROWAVE          DRILLED PIER          FOUNDATION DETAILS          SPRINGER TEP GEN, AZ</b>			
DATE:	AS	CHKD: <i>HA</i>	DATE: 7/31/2017
ENG'G:	<i>HA</i>	SHEET #:	1 OF 1
PRL ENG'G:	AS	PRL NUMBER:	
DRAWING NO:	222564-01-F1		REV: 0

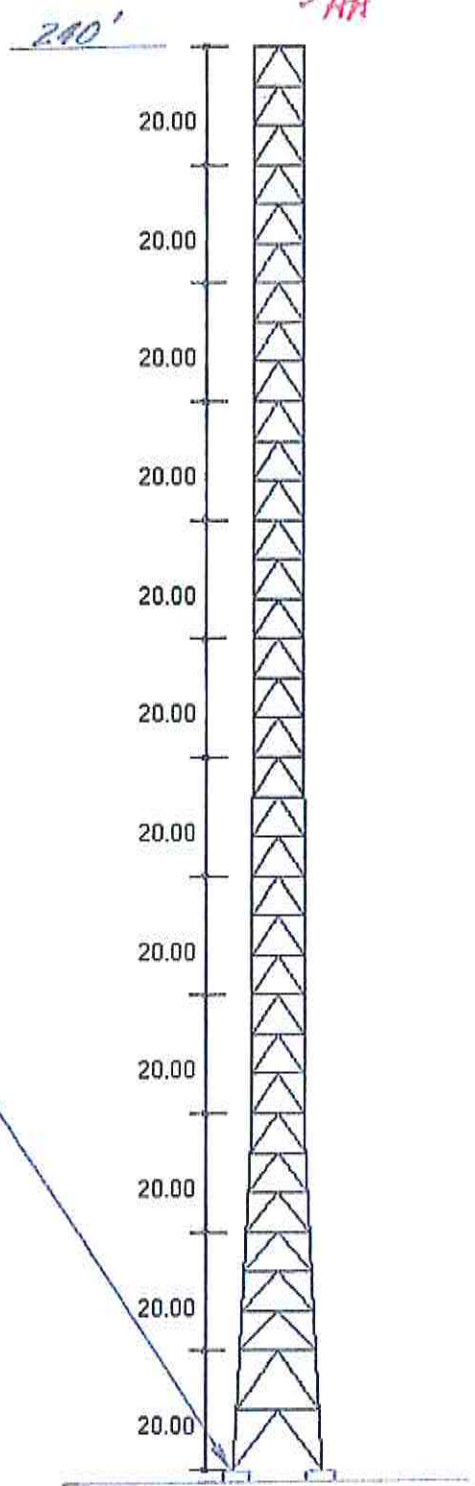
File: W:\Jobs\2017\222564\222564.out  
 Contract:  
 Project: 240' SSMW TOWER DESIGN ANALYSIS  
 Date and Time: 7/31/2017 3:03:05 PM

Revision: 0  
 Site: SPRINGER TEP GEN, AZ  
 Engineer: OH

**DESIGN SPECIFICATION**

Design Standard: ANSI/TIA-222-G-2005 Add.2  
 Ultimate Design Wind Speed (No Ice) = 115.0 (mph)  
 Nominal Design Wind Speed (No Ice) = 89.1 (mph)  
 Basic Wind Speed (With Ice) = 30.0 (mph)  
 Design Ice Thickness = 0.25 (in)  
 Structure Class = II  
 Exposure Category = C  
 Topographic Category = 1

Sct.	Length (ft)	Top W. (in)	Bot Width (in)
1	20.00	155.16	182.17
2	20.00	129.49	155.16
3	20.00	105.47	129.49
4	20.00	105.47	105.47
5	20.00	105.47	105.47
6	20.00	104.53	105.47
7	20.00	104.53	104.53
8	20.00	103.54	104.53
9	20.00	102.48	103.54
10	20.00	102.01	102.48
11	20.00	102.01	102.48
12	20.00	102.01	102.48



*(8) 1" DIA. X 70" LG. ASTM F1554 GR. 105  
 ANCHOR BOLTS PER TOWER LEG  
 (24) TOTAL*

MAXIMUM BASE REACTIONS

Download (Kips) 303.5  
 Uplift (Kips) 275.0  
 Shear (Kips) 19.7  
*O.T.M. 3857.1 FT. KIPS*

File: W:\Jobs\2017\222564\222564.out  
Contract:  
Project: 240' SSMW TOWER DESIGN ANALYSIS  
Date and Time: 7/31/2017 3:03:05 PM

Revision: 0  
Site: SPRINGER TEP GEN  
Engineer: OH

Section A: PROJECT DATA

Project Title: 240' SSMW TOWER DESIGN ANALYSIS  
Customer Name: CMI MICROWAVE  
Site: SPRINGER TEP GEN  
Contract No.:  
Revision: 0  
Engineer: OH  
Date: Jul 31 2017  
Time: 03:01:47 PM  
Project Notes: APACHE Co., A Z

Design Standard: ANSI/TIA-222-G-2005 Addendum 2

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg)  
End wind direction: 330.00 (Deg)  
Increment wind direction: 30.00 (Deg)  
Elevation above ground: 0.00 (ft)  
Gust Response Factor Gh: 0.85  
Structure class: II  
Exposure category: C  
Topographic category: 1  
Material Density: 490.1 (lbs/ft<sup>3</sup>)  
Young's Modulus: 29000.0 (ksi)  
Poisson Ratio: 0.30  
Weight Multiplier: 1.30  
Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:

Ultimate Design Wind Speed (No Ice): 115.00 (mph)  
Nominal Design Wind Speed (No Ice): 89.08 (mph)  
Directionality Factor Kd: 0.85  
Importance Factor I: 1.00  
Wind Load Factor: 1.60  
Dead Load Factor: 1.20  
Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:

Basic Wind Speed (With Ice): 30.00 (mph)  
Directionality Factor Kd: 0.85  
Wind Load Importance Factor Iw: 1.00  
Ice Thickness Importance Factor Ii: 1.00  
Ice Thickness: 0.25 (in)  
Ice Density: 56.19 (lbs/ft<sup>3</sup>)  
Wind Load Factor: 1.00  
Dead Load Factor: 1.20  
Ice Load Factor: 1.00

WIND ONLY SERVICEABILITY CONDITIONS:

Serviceability Wind Speed: 60.00 (mph)  
Directionality Factor Kd: 0.85  
Importance Factor I: 1.00  
Wind Load Factor: 1.00  
Dead Load Factor: 1.00

PATTERN LOADING (IF APPLICABLE) CONDITIONS:

Ultimate Design Wind Speed (No Ice): 115.00 (mph)  
Nominal Design Wind Speed (No Ice): 89.08 (mph)  
Directionality Factor Kd: 0.85  
Importance Factor I: 1.00  
Wind Load Factor: 1.60

File: W:\Jobs\2017\222564\222564.out

Contract:

Project: 240' SSMW TOWER DESIGN ANALYSIS

Date and Time: 7/31/2017 3:03:05 PM

Revision: 0

Site: SPRINGER TEP GEN

Engineer: OH

Dead Load Factor: 1.20  
Dead Load Factor for Uplift: 0.90

EARTHQUAKE CONDITIONS:

Site class definition: D  
Spectral response acceleration Ss: 0.242  
Spectral response acceleration S1: 0.073  
Acceleration-based site coefficient Fa: 1.600  
Velocity-based site coefficient Fv: 2.400  
Design spectral response acceleration Sds: 0.258  
Design spectral response acceleration Sd1: 0.117  
Seismic analysis method: 2  
Fundamental frequency of structure f1: 0.982

Analysis performed using: Robot Millenium Finite Element Analysis Software (by Robobat)

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Contract:

Project: 240' SSMW TOWER DESIGN ANALYSIS

Date and Time: 7/31/2017 3:03:05 PM

Revision: 0

Site: SPRINGER TEP GEN

Engineer: OH

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	240.00	240.00	12	182.17	102.01

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. (lbs)		Database (lbs)
12	R-MWBST*	220.00	240.00	102	102	451	951	0	120	1523	1537	0.787
11	R-MWBST*	200.00	220.00	102	102	451	952	0	121	1524	1537	0.787
10	R-MWBST*	180.00	200.00	102	102	451	952	0	121	1524	1537	0.787
9	R-MWBST*	160.00	180.00	104	102	592	955	0	121	1668	1680	0.787
8	R-MWBST*	140.00	160.00	105	104	841	960	0	122	1924	1938	0.787
7	R-MWBST*	120.00	140.00	105	105	1142	962	0	123	2227	2242	0.787
6	R-MWBST	100.00	120.00	105	105	1622	964	0	124	2710	2720	0.787
5	R-MWBST	80.00	100.00	105	105	1779	1065	0	124	2969	2886	0.787
4	R-MWBST*	60.00	80.00	105	105	2232	1065	0	124	3421	3338	0.787
3	R-MWCT*	40.00	60.00	129	105	2236	1127	0	134	3497	3406	0.787
2	R-MWDT*	20.00	40.00	155	129	2237	1273	0	163	3672	3750	0.787
1	R-MWET*	0.00	20.00	182	155	2582	1505	0	127	4215	4279	0.787
Total Mass:						16616	12732	0	1525	30873	30849	

PANEL GEOMETRY

Sec#	Pln#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
12	3	K	(None)		Yes	6.7	102.2	102.0	2-Subdiv.	(None)	0.260	0.00
12	2	K	(None)		Yes	6.7	102.3	102.2	2-Subdiv.	(None)	0.260	0.00
12	1	K	(None)		Yes	6.7	102.5	102.3	2-Subdiv.	(None)	0.260	0.00
11	3	K	(None)		Yes	6.7	102.2	102.0	2-Subdiv.	(None)	0.260	0.00
11	2	K	(None)		Yes	6.7	102.3	102.2	2-Subdiv.	(None)	0.260	0.00
11	1	K	(None)		Yes	6.7	102.5	102.3	2-Subdiv.	(None)	0.260	0.00
10	3	K	(None)		Yes	6.7	102.2	102.0	2-Subdiv.	(None)	0.260	0.00
10	2	K	(None)		Yes	6.7	102.3	102.2	2-Subdiv.	(None)	0.260	0.00
10	1	K	(None)		Yes	6.7	102.5	102.3	2-Subdiv.	(None)	0.260	0.00
9	3	K	(None)		Yes	6.7	102.8	102.5	2-Subdiv.	(None)	0.260	0.00
9	2	K	(None)		Yes	6.7	103.2	102.8	2-Subdiv.	(None)	0.260	0.00
9	1	K	(None)		Yes	6.7	103.5	103.2	2-Subdiv.	(None)	0.260	0.00
8	3	K	(None)		Yes	6.7	103.9	103.5	2-Subdiv.	(None)	1.006	0.00
8	2	K	(None)		Yes	6.7	104.2	103.9	2-Subdiv.	(None)	1.006	0.00
8	1	K	(None)		Yes	6.7	104.5	104.2	2-Subdiv.	(None)	1.006	0.00
7	3	K	(None)		Yes	6.7	104.5	104.5	2-Subdiv.	(None)	0.260	0.00
7	2	K	(None)		Yes	6.7	104.5	104.5	2-Subdiv.	(None)	0.260	0.00
7	1	K	(None)		Yes	6.7	104.5	104.5	2-Subdiv.	(None)	0.260	0.00
6	3	K	(None)		Yes	6.7	104.8	104.5	2-Subdiv.	(None)	0.260	0.00
6	2	K	(None)		Yes	6.7	105.2	104.8	2-Subdiv.	(None)	0.260	0.00
6	1	K	(None)		Yes	6.7	105.5	105.2	2-Subdiv.	(None)	0.260	0.00
5	3	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	1.006	0.00
5	2	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	1.006	0.00
5	1	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	1.006	0.00
4	3	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	0.260	0.00
4	2	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	0.260	0.00
4	1	K	(None)		Yes	6.7	105.5	105.5	2-Subdiv.	(None)	0.260	0.00
3	3	K	(None)		Yes	6.7	113.5	105.5	2-Subdiv.	(None)	0.260	0.00
3	2	K	(None)		Yes	6.7	121.5	113.5	2-Subdiv.	(None)	0.260	0.00
3	1	K	(None)		Yes	6.7	129.5	121.5	2-Subdiv.	(None)	0.260	0.00
2	3	K	(None)		Yes	6.7	138.0	129.5	2-Subdiv.	(None)	0.260	0.00

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Engineer: OH

2	2	K	(None)	Yes	6.7	146.6	138.0	2-Subdiv.	(None)	0.260	0.00
2	1	K	(None)	Yes	6.7	155.2	146.6	2-Subdiv.	(None)	0.260	0.00
1	2	K	(None)	Yes	10.0	168.7	155.2	2-Subdiv.	(None)	1.509	0.00
1	1	K	(None)	Yes	10.0	182.2	168.7	2-Subdiv.	(None)	1.509	0.00

MEMBER PROPERTIES

Sec/ Member Fnl Spacing	Type	Description	Steel Grade	Conn. Type	Bolt #	Bolt Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
					(ft)	(in)		(in)	(in)	(in)		(in)	(in)
12/3	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
12/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
12/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
12/3	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
12/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
12/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
12/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
12/2	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
12/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
12/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
12/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
12/1	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
11/3	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
11/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
11/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
11/3	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
11/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
11/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
11/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
11/2	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
11/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.750	A325X						
11/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
11/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
11/1	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
10/3	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.875	A325X						
10/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
10/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
10/3	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
10/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.875	A325X						
10/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
10/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
10/2	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
10/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4	0.875	A325X						
10/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
10/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
10/1	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
9/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4	0.875	A325X						
9/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
9/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
9/3	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
9/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4	0.875	A325X						
9/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
9/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
9/2	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	
9/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4	0.875	A325X						
9/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3	0.625	A325X	1.181	1.189	0.250	A36	1.875	
9/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2	0.625	A325X	1.181	0.949	0.250	A36	1.875	
9/1	PlanH1	L2x2x3/16	A36	Bolted	1	0.625	A325X	0.938	1.000	0.250	A36	1.875	

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Engineer: OH

8/3	Leg	PIPE 4.500x0.237	A500	gr.CSTension	4-1.000	A325X					
8/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
8/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
8/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
8/2	Leg	PIPE 4.500x0.237	A500	gr.CSTension	4-1.000	A325X					
8/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
8/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
8/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
8/1	Leg	PIPE 4.500x0.237	A500	gr.CSTension	4-1.000	A325X					
8/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
8/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
8/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
7/3	Leg	PIPE 5.563x0.258	A500	gr.CSTension	4-1.000	A325X					
7/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
7/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
7/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
7/2	Leg	PIPE 5.563x0.258	A500	gr.CSTension	4-1.000	A325X					
7/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
7/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
7/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
7/1	Leg	PIPE 5.563x0.258	A500	gr.CSTension	4-1.000	A325X					
7/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
7/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
7/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
6/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X					
6/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
6/3	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
6/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
6/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X					
6/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
6/2	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
6/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
6/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X					
6/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
6/1	Horiz	PIPE 1.900x0.145	A500	gr.CSBolted	2-0.625	A325X	1.181	0.949	0.250	A36	1.875
6/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
5/3	Leg	PIPE 6.625x0.340	A572	gr.50Tension	6-1.000	A325X					
5/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
5/3	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
5/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
5/2	Leg	PIPE 6.625x0.340	A572	gr.50Tension	6-1.000	A325X					
5/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
5/2	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
5/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
5/1	Leg	PIPE 6.625x0.340	A572	gr.50Tension	6-1.000	A325X					
5/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
5/1	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
5/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
4/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
4/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
4/3	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
4/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
4/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
4/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
4/2	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
4/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
4/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
4/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
4/1	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
4/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875

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3/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
3/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
3/3	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
3/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
3/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
3/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
3/2	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
3/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
3/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X					
3/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
3/1	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.188	0.250	A36	1.875
3/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
2/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	8-1.000	A325X					
2/3	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/3	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/3	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
2/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	8-1.000	A325X					
2/2	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/2	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
2/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	8-1.000	A325X					
2/1	Diag	PIPE 2.375x0.154	A500	gr.CSBolted	3-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/1	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.189	0.250	A36	1.875
2/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
1/2	Leg	PIPE 8.625x0.375	A500	gr.CSTension	8-1.000	A325X					
1/2	Diag	PIPE 2.875x0.203	A500	gr.CSBolted	3-0.625	A325X	1.181	1.437	0.250	A36	1.875
1/2	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.189	0.250	A36	1.875
1/2	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875
1/1	Leg	PIPE 8.625x0.375	A500	gr.CSTension	8-1.000	A325X					
1/1	Diag	PIPE 2.875x0.203	A500	gr.CSBolted	3-0.625	A325X	1.181	1.437	0.250	A36	1.875
1/1	Horiz	PIPE 2.375x0.154	A500	gr.CSBolted	2-0.625	A325X	1.181	1.189	0.250	A36	1.875
1/1	PlanH1	L2x2x3/16	A36	Bolted	1-0.625	A325X	0.938	1.000	0.250	A36	1.875

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Section C: ANTENNA DATA

Structure Azimuth from North: 0

ANTENNAS

Ant No.	Elev. (ft)	Antenna (#) Type	Ant. Azim.	Mount. Radius (ft)	Mount Type	Mount Azim.	Tx Line (#)Type	Mounting Pipe Size (in)	Mounting Pipe Length (ft) Full Shielded	Ka
1	230.00	(1) HP4 Vert. Offset 0.00 (ft)	86	6.00		120				1.00
2	220.00	(1) HP6 Vert. Offset 0.00 (ft)	240	6.00		240				1.00
3	208.00	(1) HP6 Vert. Offset 0.00 (ft)	110	6.00		120				1.00
4	182.00	(1) HP6 Vert. Offset 0.00 (ft)	110	6.00		120				1.00
5	100.00	(1) HP4 Vert. Offset 0.00 (ft)	248	6.00		240				1.00

ANTENNA AND MOUNT WIND AREAS AND WEIGHTS

Ant No.	Antenna/Mount	Frontal Bare Area (ft) <sup>2</sup>	Lateral Bare Area (ft) <sup>2</sup>	Frontal Iced Area (ft) <sup>2</sup>	Lateral Iced Area (ft) <sup>2</sup>	Weight Bare (lbs)	Weight Iced (lbs)	Frequency GHz	Allowable Signal Loss dB	Gh	Mount Ka
1	HP4	18.87	1.31	18.87	1.31	169.75	324.88	6.00	10	0.85	
2	HP6	40.35	2.81	40.35	2.81	279.98	591.76	6.00	10	0.85	
3	HP6	40.35	2.81	40.35	2.81	279.98	590.29	6.00	10	0.85	
4	HP6	40.35	2.81	40.35	2.81	279.98	586.84	6.00	10	0.85	
5	HP4	18.87	1.31	18.87	1.31	169.75	314.68	6.00	10	0.85	

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Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	240.00	3/8 CABLE	9.60	60.00	0.00	1	1	No		
2	0.00	240.00	TX Ladder	6.20	60.00	15.00	1	1	No		
3	0.00	240.00	RC0.75-Cnd	6.20	60.00	15.00	1	1	No		
4	0.00	230.00	LDF2-50	6.20	60.00	15.00	2	1	No		
5	0.00	220.00	EW63	6.20	60.00	15.00	2	1	No		
6	0.00	208.00	EW63	6.20	60.00	15.00	1	1	No		
7	0.00	182.00	EW63	6.20	60.00	15.00	1	1	No		
8	0.00	100.00	LDF4P-50A	6.20	60.00	15.00	2	1	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	TX Ladder	4.70	1.50	4.00	2.750	2.750
3	RC0.75-Cnd	1.05	1.05	1.09	2.750	2.750
4	LDF2-50	0.43	0.43	0.08	2.250	2.750
5	EW63	1.16	2.01	0.51	2.250	2.750
6	EW63	1.16	2.01	0.51	2.250	2.750
7	EW63	1.16	2.01	0.51	2.250	2.750
8	LDF4P-50A	0.63	0.63	0.15	2.250	2.750

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Section F: POINT LOAD DATA

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	BEACON AND LIGHTNING ROD	240.00	5.00	0.0	0.0	0.00		
2	(2) ODU RADIOS	230.00	5.00	86.0	120.0	0.00		
3	(2) ODU RADIOS	100.00	5.05	248.0	240.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	BEACON AND LIGHTNING ROD	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	(2) ODU RADIOS	4.00	4.00	6.00	6.00	0.10	0.15	0.85
3	(2) ODU RADIOS	4.00	4.00	6.00	6.00	0.10	0.15	0.85

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Engineer: OH

Section H: STRUCTURE DISPLACEMENT DATA

Load Combination Max Envelope

Wind Direction		Maximum displacements					
Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
212	240.0	53.6	-62.2	-0.1	1.79	-2.09	-0.45
206	233.3	51.1	-59.3	-0.1	1.79	-2.09	-0.45
200	226.7	48.6	-56.3	-0.1	1.79	-2.09	-0.44
194	220.0	46.1	-53.4	-0.1	1.79	-2.09	-0.44
188	213.3	43.6	-50.5	-0.1	1.78	-2.08	-0.44
182	206.7	41.1	-47.6	-0.1	1.77	-2.07	-0.43
176	200.0	38.6	-44.7	-0.1	1.74	-2.04	-0.42
170	193.3	36.2	-41.9	-0.1	1.71	-2.00	-0.41
164	186.7	33.8	-39.1	-0.1	1.67	-1.95	-0.40
158	180.0	31.5	-36.4	-0.1	1.63	-1.91	-0.39
152	173.3	29.2	-33.7	-0.1	1.58	-1.85	-0.37
146	166.7	27.0	-31.1	-0.1	1.53	-1.78	-0.35
140	160.0	24.8	-28.6	-0.1	1.48	-1.72	-0.33
134	153.3	22.8	-26.2	-0.1	1.42	-1.66	-0.31
128	146.7	20.8	-23.9	-0.1	1.36	-1.58	-0.29
122	140.0	18.9	-21.7	-0.1	1.31	-1.52	-0.28
116	133.3	17.1	-19.6	-0.1	1.25	-1.45	-0.26
110	126.7	15.3	-17.6	-0.1	1.19	-1.37	-0.24
104	120.0	13.6	-15.6	-0.1	1.13	-1.31	-0.22
98	113.3	12.1	-13.8	-0.1	1.08	-1.24	-0.20
92	106.7	10.6	-12.1	-0.1	1.01	-1.17	-0.19
86	100.0	9.1	-10.4	-0.1	0.95	-1.10	-0.17
80	93.3	7.8	-8.9	-0.1	0.89	-1.02	-0.15
74	86.7	6.6	-7.5	-0.1	0.81	-0.93	-0.14
68	80.0	5.4	-6.2	-0.1	0.75	-0.86	-0.12
62	73.3	4.4	-5.0	0.0	0.68	-0.78	-0.11
56	66.7	3.4	-3.9	0.0	0.60	-0.69	-0.09
50	60.0	2.6	-2.9	0.0	0.47	-0.53	-0.08
44	53.3	1.9	-2.2	0.0	0.39	-0.44	-0.06
38	46.7	1.4	-1.6	0.0	0.32	-0.36	-0.05
32	40.0	1.0	-1.1	0.0	0.25	-0.29	-0.04
26	33.3	0.6	-0.7	0.0	0.19	-0.22	-0.03
20	26.7	0.3	-0.4	0.0	0.14	-0.15	-0.02
14	20.0	0.1	-0.1	0.0	0.06	-0.07	-0.01
8	10.0	0.0	0.0	0.0	0.01	0.01	-0.01
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

Load Combination Wind Only - Serviceability

Wind Direction		Maximum displacements					
Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
212	240.0	15.4	-17.8	-0.1	-0.51	-0.60	-0.12
206	233.3	14.7	-17.0	-0.1	-0.51	-0.60	-0.12
200	226.7	14.0	-16.2	-0.1	-0.51	-0.60	-0.12
194	220.0	13.3	-15.3	-0.1	-0.51	-0.60	-0.12
188	213.3	12.6	-14.5	-0.1	-0.51	-0.59	-0.12
182	206.7	11.9	-13.7	-0.1	-0.51	-0.59	-0.12
176	200.0	11.1	-12.9	-0.1	0.50	-0.58	-0.12
170	193.3	10.4	-12.0	-0.1	0.49	-0.57	-0.11
164	186.7	9.8	-11.2	-0.1	0.48	-0.56	-0.11
158	180.0	9.1	-10.5	-0.1	0.47	-0.55	-0.11
152	173.3	8.4	-9.7	-0.1	0.46	-0.53	-0.10
146	166.7	7.8	-9.0	-0.1	0.44	-0.51	-0.10
140	160.0	7.2	-8.3	-0.1	0.43	-0.49	-0.09

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134	153.3	6.6	-7.6	-0.1	0.41	-0.48	-0.09
128	146.7	6.0	-6.9	-0.1	0.39	-0.45	-0.08
122	140.0	5.5	-6.3	-0.1	0.38	-0.44	-0.08
116	133.3	4.9	-5.7	-0.1	0.36	-0.42	-0.07
110	126.7	4.4	-5.1	0.0	0.34	-0.39	-0.07
104	120.0	4.0	-4.5	0.0	0.33	-0.38	-0.06
98	113.3	3.5	-4.0	0.0	0.31	-0.36	-0.06
92	106.7	3.1	-3.5	0.0	0.29	-0.34	-0.05
86	100.0	2.7	-3.0	0.0	0.28	-0.32	-0.05
80	93.3	2.3	-2.6	0.0	0.26	-0.29	-0.04
74	86.7	1.9	-2.2	0.0	0.24	-0.27	-0.04
68	80.0	1.6	-1.8	0.0	0.22	-0.25	-0.03
62	73.3	1.3	-1.5	0.0	0.20	-0.23	-0.03
56	66.7	1.0	-1.1	0.0	0.18	-0.20	-0.02
50	60.0	0.8	-0.9	0.0	0.14	-0.15	-0.02
44	53.3	0.6	-0.6	0.0	0.11	-0.13	-0.02
38	46.7	0.4	-0.5	0.0	0.09	-0.11	-0.01
32	40.0	0.3	-0.3	0.0	0.07	-0.08	-0.01
26	33.3	0.2	-0.2	0.0	0.06	-0.06	-0.01
20	26.7	0.1	-0.1	0.0	0.04	-0.04	-0.01
14	20.0	0.0	0.0	0.0	0.02	-0.02	0.00
8	10.0	0.0	0.0	0.0	0.00	0.00	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

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Engineer: OH

Section J: ANTENNA DISPLACEMENT DATA

Load Combination Max Envelope ✓

Wind Direction

Maximum displacements

Ant.	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist Tot (Deg)
1	230.00	49.8	-57.8	-0.1	1.79	-2.09	-0.45
2	220.00	46.1	-53.4	-0.1	1.79	-2.09	-0.44
3	208.00	41.6	-48.2	-0.1	1.77	-2.07	-0.43
4	182.00	32.2	-37.2	-0.1	1.64	-1.92	-0.39
5	100.00	9.1	-10.4	-0.1	0.95	-1.10	-0.17

Load Combination Wind Only - Serviceability

Wind Direction

Maximum displacements ✓

Ant.	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist Tot (Deg)	Allow. (Deg)
1	230.00	14.3	-16.6	-0.1	-0.51	-0.60	-0.12	2.21
2	220.00	13.3	-15.3	-0.1	-0.51	-0.60	-0.12	1.48
3	208.00	12.0	-13.8	-0.1	-0.51	-0.59	-0.12	1.48
4	182.00	9.3	-10.7	-0.1	0.47	-0.55	-0.11	1.48
5	100.00	2.7	-3.0	0.0	0.28	-0.32	-0.05	2.21

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Section L: STRENGTH ASSESSMENT SORTED DATA

Load Combination

Max Envelope

Wind Direction

Maximum

Sec	Pnl	Elev.	MType	Desc.	Len	kl/r	Gov.	Gov.	Max	Max	Asses.
		(ft)			(ft)		comp.	tens.	Compr.	Tens.	Ratio
							cap.	cap.	(Kips)	(Kips)	
							(Kips)	(Kips)			
12	3	233.33	Leg	PIPE 2.875x0.203	6.67	79.5	48.2	76.6	0.7	0.0	0.01
12	2	226.67	Leg	PIPE 2.875x0.203	6.67	79.5	48.2	76.6	1.0	0.2	0.02
12	1	220.00	Leg	PIPE 2.875x0.203	6.67	79.5	48.2	76.6	2.5	1.3	0.05
11	3	213.33	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	5.2	3.0	0.12
11	2	206.67	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	9.3	6.9	0.21
11	1	200.00	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	14.2	11.5	0.31
10	3	193.33	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	20.4	17.3	0.45
10	2	186.67	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	27.2	23.7	0.60
10	1	180.00	Leg	PIPE 2.875x0.203	6.67	84.8	45.2	76.6	34.6	30.6	0.77
9	3	173.33	Leg	PIPE 3.500x0.216	6.67	69.2	70.7	100.4	42.9	38.4	0.61
9	2	166.67	Leg	PIPE 3.500x0.216	6.67	69.2	70.7	100.4	52.2	47.2	0.74
9	1	160.00	Leg	PIPE 3.500x0.216	6.67	69.2	70.7	100.4	62.1	56.5	0.88
8	3	153.33	Leg	PIPE 4.500x0.237	6.67	53.2	116.1	142.7	72.6	66.3	0.63
8	2	146.67	Leg	PIPE 4.500x0.237	6.67	53.2	116.1	142.7	83.6	76.6	0.72
8	1	140.00	Leg	PIPE 4.500x0.237	6.67	53.2	116.1	142.7	95.3	87.6	0.82
7	3	133.33	Leg	PIPE 5.563x0.258	6.67	42.7	169.4	193.6	107.5	99.0	0.63
7	2	126.67	Leg	PIPE 5.563x0.258	6.67	42.7	169.4	193.6	120.7	111.4	0.71
7	1	120.00	Leg	PIPE 5.563x0.258	6.67	42.7	169.4	193.6	134.4	124.4	0.79
6	3	113.33	Leg	PIPE 5.563x0.375	6.67	43.6	239.4	275.2	148.8	137.9	0.62
6	2	106.67	Leg	PIPE 5.563x0.375	6.67	43.6	239.4	275.2	163.4	151.5	0.68
6	1	100.00	Leg	PIPE 5.563x0.375	6.67	43.6	239.4	275.2	178.4	165.6	0.75
5	3	93.33	Leg	PIPE 6.625x0.340	6.67	33.8	278.0	302.3	194.3	180.0	0.70
5	2	86.67	Leg	PIPE 6.625x0.340	6.67	36.1	274.8	302.3	211.5	196.1	0.77
5	1	80.00	Leg	PIPE 6.625x0.340	6.67	32.7	279.5	302.3	229.3	213.0	0.82
4	3	73.33	Leg	PIPE 6.625x0.432	6.67	36.5	343.6	330.3	247.8	230.4	0.72
4	2	66.67	Leg	PIPE 6.625x0.432	6.67	36.5	343.6	330.3	266.9	248.4	0.78
4	1	60.00	Leg	PIPE 6.625x0.432	6.67	36.5	343.6	330.3	286.7	267.0	0.83
3	3	53.33	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	330.3	307.5	286.6	0.89
3	2	46.67	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	330.3	305.9	284.2	0.89
3	1	40.00	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	330.3	305.0	282.5	0.89
2	3	33.33	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	378.8	304.9	281.5	0.89
2	2	26.67	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	378.8	304.0	279.8	0.88
2	1	20.00	Leg	PIPE 6.625x0.432	6.68	36.5	343.6	378.8	303.7	278.6	0.88
1	2	10.00	Leg	PIPE 8.625x0.375	10.02	39.6	390.3	437.7	304.1	277.8	0.78
1	1	0.00	Leg	PIPE 8.625x0.375	10.02	39.6	390.3	437.7	303.9	276.1	0.78
12	3	233.33	Diag	PIPE 2.375x0.154	7.91	110.6	19.9	45.5	0.4	0.4	0.02
12	2	226.67	Diag	PIPE 2.375x0.154	7.91	110.6	19.9	45.5	1.0	1.0	0.05
12	1	220.00	Diag	PIPE 2.375x0.154	7.91	110.7	19.9	45.5	1.7	1.7	0.09
11	3	213.33	Diag	PIPE 2.375x0.154	7.91	110.7	19.9	45.5	2.9	2.9	0.15
11	2	206.67	Diag	PIPE 2.375x0.154	7.91	110.7	19.9	45.5	3.6	3.6	0.18
11	1	200.00	Diag	PIPE 2.375x0.154	7.91	110.7	19.9	45.5	4.8	4.8	0.24
10	3	193.33	Diag	PIPE 2.375x0.154	7.91	110.7	19.9	45.5	5.2	5.2	0.26
10	2	186.67	Diag	PIPE 2.375x0.154	7.92	110.7	19.9	45.5	5.6	5.6	0.28
10	1	180.00	Diag	PIPE 2.375x0.154	7.92	110.7	19.8	45.5	6.3	6.3	0.32
9	3	173.33	Diag	PIPE 2.375x0.154	7.92	110.4	19.9	45.5	7.4	7.4	0.37
9	2	166.67	Diag	PIPE 2.375x0.154	7.93	110.5	19.9	45.5	7.7	7.7	0.39
9	1	160.00	Diag	PIPE 2.375x0.154	7.94	110.5	19.9	45.5	8.1	8.1	0.41
8	3	153.33	Diag	PIPE 2.375x0.154	7.95	110.0	20.1	45.5	8.5	8.5	0.42
8	2	146.67	Diag	PIPE 2.375x0.154	7.96	110.1	20.0	45.5	8.8	8.8	0.44
8	1	140.00	Diag	PIPE 2.375x0.154	7.96	110.2	20.0	45.5	9.2	9.2	0.46
7	3	133.33	Diag	PIPE 2.375x0.154	7.96	109.5	20.2	45.5	9.8	9.8	0.49
7	2	126.67	Diag	PIPE 2.375x0.154	7.96	109.5	20.2	45.5	10.2	10.2	0.51
7	1	120.00	Diag	PIPE 2.375x0.154	7.96	109.5	20.2	45.5	10.6	10.6	0.52
6	3	113.33	Diag	PIPE 2.375x0.154	7.97	109.6	20.2	45.5	10.7	10.7	0.53

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Engineer: OH

6	2	106.67	Diag	PIPE 2.375x0.154	7.98	109.7	20.2	45.5	11.0	11.0	0.55
6	1	100.00	Diag	PIPE 2.375x0.154	7.98	109.7	20.2	45.5	11.3	11.3	0.56
5	3	93.33	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	12.6	12.6	0.62
5	2	86.67	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	13.0	13.0	0.64
5	1	80.00	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	13.4	13.4	0.66
4	3	73.33	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	13.8	13.8	0.68
4	2	66.67	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	14.2	14.2	0.70
4	1	60.00	Diag	PIPE 2.375x0.154	7.98	109.1	20.4	45.5	14.6	14.6	0.72
3	3	53.33	Diag	PIPE 2.375x0.154	8.18	110.8	19.8	45.5	3.6	3.6	0.18
3	2	46.67	Diag	PIPE 2.375x0.154	8.37	112.5	19.3	45.5	3.0	3.0	0.15
3	1	40.00	Diag	PIPE 2.375x0.154	8.58	114.2	18.7	45.5	2.5	2.5	0.13
2	3	33.33	Diag	PIPE 2.375x0.154	8.81	116.1	18.1	45.5	2.8	2.8	0.16
2	2	26.67	Diag	PIPE 2.375x0.154	9.04	118.0	17.5	45.5	2.4	2.4	0.14
2	1	20.00	Diag	PIPE 2.375x0.154	9.29	119.9	17.0	45.5	2.0	2.0	0.12
1	2	10.00	Diag	PIPE 2.875x0.203	12.23	133.0	21.7	45.5	2.7	2.7	0.13
1	1	0.00	Diag	PIPE 2.875x0.203	12.56	137.7	20.3	45.5	2.1	2.1	0.10
12	3	233.33	Horiz	PIPE 1.900x0.145	4.25	97.4	17.9	30.4	0.2	0.2	0.01
12	2	226.67	Horiz	PIPE 1.900x0.145	4.25	97.5	17.9	30.4	0.6	0.5	0.03
12	1	220.00	Horiz	PIPE 1.900x0.145	4.26	97.5	17.9	30.4	1.0	0.9	0.06
11	3	213.33	Horiz	PIPE 1.900x0.145	4.26	97.5	17.9	30.4	1.7	1.7	0.09
11	2	206.67	Horiz	PIPE 1.900x0.145	4.26	97.5	17.9	30.4	1.9	1.9	0.11
11	1	200.00	Horiz	PIPE 1.900x0.145	4.26	97.5	17.9	30.4	2.6	2.7	0.14
10	3	193.33	Horiz	PIPE 1.900x0.145	4.26	97.5	17.9	30.4	2.8	2.8	0.16
10	2	186.67	Horiz	PIPE 1.900x0.145	4.26	97.6	17.9	30.4	3.0	3.0	0.17
10	1	180.00	Horiz	PIPE 1.900x0.145	4.27	97.6	17.9	30.4	3.4	3.4	0.19
9	3	173.33	Horiz	PIPE 1.900x0.145	4.27	97.4	18.0	30.4	3.9	4.0	0.22
9	2	166.67	Horiz	PIPE 1.900x0.145	4.28	97.5	17.9	30.4	4.2	4.2	0.23
9	1	160.00	Horiz	PIPE 1.900x0.145	4.30	97.7	17.9	30.4	4.4	4.4	0.25
8	3	153.33	Horiz	PIPE 1.900x0.145	4.31	97.4	18.0	30.4	4.6	4.6	0.26
8	2	146.67	Horiz	PIPE 1.900x0.145	4.33	97.5	17.9	30.4	4.8	4.8	0.27
8	1	140.00	Horiz	PIPE 1.900x0.145	4.34	97.7	17.9	30.4	5.0	5.0	0.28
7	3	133.33	Horiz	PIPE 1.900x0.145	4.36	97.4	18.0	30.4	5.4	5.4	0.30
7	2	126.67	Horiz	PIPE 1.900x0.145	4.36	97.4	18.0	30.4	5.6	5.6	0.31
7	1	120.00	Horiz	PIPE 1.900x0.145	4.36	97.4	18.0	30.4	5.8	5.8	0.32
6	3	113.33	Horiz	PIPE 1.900x0.145	4.36	97.4	18.0	30.4	5.9	5.8	0.33
6	2	106.67	Horiz	PIPE 1.900x0.145	4.37	97.5	17.9	30.4	6.0	6.0	0.34
6	1	100.00	Horiz	PIPE 1.900x0.145	4.38	97.6	17.9	30.4	6.2	6.2	0.35
5	3	93.33	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	6.9	6.9	0.26
5	2	86.67	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	7.1	7.1	0.26
5	1	80.00	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	7.4	7.4	0.27
4	3	73.33	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	7.6	7.6	0.28
4	2	66.67	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	7.8	7.8	0.29
4	1	60.00	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	8.0	8.0	0.30
3	3	53.33	Horiz	PIPE 2.375x0.154	4.39	89.6	27.1	30.4	6.0	5.6	0.22
3	2	46.67	Horiz	PIPE 2.375x0.154	4.73	92.1	26.2	30.4	1.8	1.8	0.07
3	1	40.00	Horiz	PIPE 2.375x0.154	5.06	94.6	25.3	30.4	1.6	1.5	0.06
2	3	33.33	Horiz	PIPE 2.375x0.154	5.40	97.2	24.4	30.4	1.9	1.8	0.08
2	2	26.67	Horiz	PIPE 2.375x0.154	5.75	99.9	23.4	30.4	1.6	1.6	0.07
2	1	20.00	Horiz	PIPE 2.375x0.154	6.11	102.6	22.5	30.4	1.4	1.4	0.06
1	2	10.00	Horiz	PIPE 2.375x0.154	6.46	104.7	21.8	30.4	1.6	1.5	0.07
1	1	0.00	Horiz	PIPE 2.375x0.154	7.03	109.0	20.4	30.4	1.3	1.2	0.06
12	3	233.33	PlanH1	L2x2x3/16	4.25	130.8	9.3	7.8	0.0	0.0	0.00
12	2	226.67	PlanH1	L2x2x3/16	4.25	130.9	9.3	7.8	0.0	0.0	0.00
12	1	220.00	PlanH1	L2x2x3/16	4.26	131.0	9.3	7.8	0.0	0.0	0.00
11	3	213.33	PlanH1	L2x2x3/16	4.26	131.1	9.3	7.8	0.0	0.0	0.00
11	2	206.67	PlanH1	L2x2x3/16	4.26	131.1	9.3	7.8	0.0	0.0	0.00
11	1	200.00	PlanH1	L2x2x3/16	4.26	131.1	9.3	7.8	0.0	0.0	0.00
10	3	193.33	PlanH1	L2x2x3/16	4.26	131.1	9.3	7.8	0.0	0.0	0.00
10	2	186.67	PlanH1	L2x2x3/16	4.26	131.2	9.3	7.8	0.0	0.0	0.00
10	1	180.00	PlanH1	L2x2x3/16	4.27	131.3	9.3	7.8	0.0	0.0	0.00
9	3	173.33	PlanH1	L2x2x3/16	4.27	131.4	9.3	7.8	0.0	0.0	0.00
9	2	166.67	PlanH1	L2x2x3/16	4.28	131.8	9.2	7.8	0.0	0.0	0.00

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Engineer: OH

9	1	160.00	PlanH1	L2x2x3/16	4.30	132.3	9.2	7.8	0.0	0.0	0.00
8	3	153.33	PlanH1	L2x2x3/16	4.31	132.7	9.1	7.8	0.0	0.0	0.00
8	2	146.67	PlanH1	L2x2x3/16	4.33	133.2	9.0	7.8	0.0	0.0	0.00
8	1	140.00	PlanH1	L2x2x3/16	4.34	133.6	9.0	7.8	0.0	0.0	0.00
7	3	133.33	PlanH1	L2x2x3/16	4.36	134.0	8.9	7.8	0.0	0.0	0.00
7	2	126.67	PlanH1	L2x2x3/16	4.36	134.0	8.9	7.8	0.0	0.0	0.00
7	1	120.00	PlanH1	L2x2x3/16	4.36	134.0	8.9	7.8	0.0	0.0	0.00
6	3	113.33	PlanH1	L2x2x3/16	4.36	134.0	8.9	7.8	0.0	0.0	0.00
6	2	106.67	PlanH1	L2x2x3/16	4.37	134.4	8.9	7.8	0.0	0.0	0.01
6	1	100.00	PlanH1	L2x2x3/16	4.38	134.8	8.8	7.8	0.0	0.0	0.01
5	3	93.33	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
5	2	86.67	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
5	1	80.00	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
4	3	73.33	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
4	2	66.67	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
4	1	60.00	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.1	0.1	0.01
3	3	53.33	PlanH1	L2x2x3/16	4.39	135.2	8.8	7.8	0.0	0.0	0.01
3	2	46.67	PlanH1	L2x2x3/16	4.73	145.5	7.6	7.8	0.0	0.0	0.00
3	1	40.00	PlanH1	L2x2x3/16	5.06	155.7	6.6	7.8	0.0	0.0	0.00
2	3	33.33	PlanH1	L2x2x3/16	5.40	166.0	5.8	7.8	0.0	0.0	0.00
2	2	26.67	PlanH1	L2x2x3/16	5.75	177.0	5.1	7.8	0.0	0.0	0.00
2	1	20.00	PlanH1	L2x2x3/16	6.11	188.0	4.5	7.8	0.0	0.0	0.00
1	2	10.00	PlanH1	L2x2x3/16	6.46	198.9	4.1	7.8	0.0	0.0	0.00
1	1	0.00	PlanH1	L2x2x3/16	7.03	216.2	3.4	7.8	0.0	0.0	0.00

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Site: SPRINGER TEP GEN  
Engineer: OH

Section N: LEG REACTION DATA

Load Combination	Max Envelope			
Wind Direction	Maximum			
Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
303.47	275.00			19.71

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Contract:

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Engineer: OH

Section O: TOWER FOUNDATION DATA

Load Combination

Max Envelope

Wind Direction

Maximum

Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
31.02	-0.08	28.54	28.54	3857.11	5.35	14.25	3857.14
41.36	-0.08	28.54	28.54	3856.58	5.35	13.79	3856.60

File no : 222564

Customer: **CMI MICROWAVE**

Date 07/31/17

By: AS

Description: **240 FT SSMW**

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Chk: HA 7/31/17

**SPRINGER TEP GEN, AZ**

Ver. 11/16/01

**FACTORED REACTIONS / LEG**

COMPRESSION = 303.47 k ( 8 ) - 1 " dia A.B. per leg  
 UPLIFT = 275.00 k  $f'_c = 4,500$  psi  
 SHEAR = 19.71 k  $f_v = 60,000$  psi

**SOIL PARAMETERS**

A) Depth neglected for skin friction = Top 3.0 ft

B) Average ultimate skin shear for uplift:

3.0 ft to 10.0 ft depth = 333 psf, and 10.0 ft to 15.0 ft depth = 667 psf, and 15.0 ft to 24.0 ft depth = 1200 psf, and 24.0 ft to 35.0 ft depth = 400 psf.

C) Average ultimate skin shear for download:

3.0 ft to 10.0 ft depth = 500 psf, and 10.0 ft to 15.0 ft depth = 1000 psf, and 15.0 ft to 24.0 ft depth = 1800 psf, and 24.0 ft to 35.0 ft depth = 600 psf.

D) Ultimate net end bearing at 35.0 ft = 12.00 ksf.

TYPE V CEMENT IS TO BE USED

E) Groundwater table below foundation depth.

**USE 4'- 6" DIAMETER AND 35'- 0" DEEP DRILLED PIER WITH 0'- 6" CAP**

Perimeter = 14.14 ft Area = 15.90 ft<sup>2</sup>

Total Download = 303.47 + [1.2 x 0.15 - 0.75 x 0.120] x 35 x 15.90 =  
 = 354.3 k

Tension Capacity = 15.90 x (35.5 x 0.15 + 0.0 x 0.09) x 0.90 +  
 14.14 x (0.333 x 7.0 + 0.667 x 5.0 + 1.200 x 9.0 + 0.400 x 11.0) x 0.75 =  
 76.2 + 221.3 = 297.5 k  
 297.5 >= 275.00 OK

Comp. Capacity = 15.90 x 12.00 x 0.75 +  
 14.14 x (0.500 x 7.0 + 1.000 x 5.0 + 1.800 x 9.0 + 0.600 x 11.0) x 0.75 =  
 143.1 + 331.9 = 475.0 k  
 475.0 >= 354.3 OK

**LATERAL - SEE ATTACHED CALCULATIONS USING WIGGINS METHOD**

Max M = 214.50 ft-k Max V = 19.71 k

**REINFORCEMENT - SEE ATTACHED SHAFT PROGRAM**

USE 16 # 8 BARS VERTICAL WITH  
 # 4 TIES AT 6" IN TOP 7.0 FT AND AT  
 12 " IN REST OF PIER  
 {45.0 in Cage Diameter}

CONCRETE VOLUME = 15.90 x 35.5 / 27 = 20.9 cu yds / pier

\*\*\*\*\*  
 \*\* WIGGINS METHOD \*\*  
 \*\*\*\*\*  
 \*\* DETERMINE MAXIMUM LATERAL SOIL PRESSURE \*\*  
 \*\* AND MAXIMUM MOMENT IN THE SHAFT FOR \*\*  
 \*\* A DRILLED PIER FOUNDATION \*\*  
 \*\*\*\*\* Mon Jul 31 16:28:41 2017 \*\*\*\*\*  
 Ver. 2.3 NT

FORMULAS USED

$$S1 = \frac{6 \cdot P \cdot (1+N)}{D \cdot L \cdot (1-N) \cdot (1-N)}$$

$$L = (MA/P) + R + E$$

$$S2 = \frac{(N+3) \cdot (N+3) \cdot S1}{8 \cdot (N+1) \cdot (N+2)}$$

$$NL = (MA/P) + R + G$$

$$K = \frac{1 - (N \cdot N)}{2 \cdot (2+N)}$$

$$N = NL / L$$

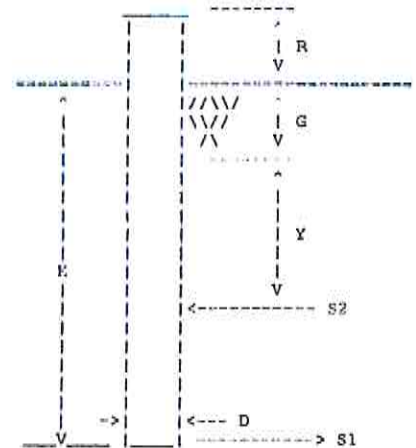
$$Y = \frac{L \cdot (1-K) - NL}{2}$$

$$SP1 = S1 / E$$

$$M = P \cdot (NL + 5/8 \cdot Y)$$

$$SP2 = S2 / (Y + G)$$

$$V = \frac{S1 \cdot D \cdot K \cdot L}{2} \text{ or } P \text{ whichever is greater}$$



Diameter of Pier = D = 4.50 ft  
 Projection Above Grade = R = .50 ft  
 Embedment Depth = E = 35.00 ft  
 Depth of Soil Ignored = G = 3.00 ft

Equivalent Length of Pier = L = 35.50 ft  
 Length for NO Soil Resistance = NL = 3.50 ft  
 Applied Moment at Top of Pier = MA = .00 ft-k  
 Shear at Top of Pier = P = 19.71 kips

MAXIMUM LATERAL SOIL PRESSURES

K = .2359  
 Y = 11.81 ft

S1 = 1.001 ksf  
 S2 = .521 ksf  
 SP1 = 29 psf/ft  
 SP2 = 35 psf/ft

MAXIMUM VALUES IN SHAFT

M = 214.50 ft-k  
 V = 19.71 kips

\*\*\*\*\*  
 \*\*  
 \*\* COMPARISION DATA \*\*  
 \*\*  
 \*\*\*\*\*

222564  
 CMI MICROWAVE 240 F1

BROMS ----->

SAND  
 PHI = 30.0 degrees  
 DENSITY = 100.00 pcf  
 E = 12.91 ft  
 Max. M = 126.96 ft-k  
 Max. V = 62.40 kips  
 Ls = 9.005 ft

CLAY

C = 1.00 ksf  
 E = 13.21 ft  
 Max. M = 152.49 ft-k  
 Max. V = 55.57 kips

EIA REV. E NORMAL SOIL -----> E = 8.28 ft

EIA REV. F NORMAL SOIL -----> E = 10.07 ft

\*618DNAME: AS

FILE NO. 222564

PAGE NO. 1

SHAFT REINFORCING PROGRAM VER. 91.7

DESIGNED BY: AS  
 ENG. FILE NO.: 222564  
 DATE: 07/31/17

CUSTOMER: CMI MICROWAVE  
 DESCRIPTION: 240 FT SSMWSPRINGER TEP GEN, AZ

INPUT DATA

C = 303.47 Kips  
 T = 275.00 Kips  
 Fy = 60.00 Ksi  
 H = 54.00 In.  
 Vc = 19.71 Kips  
 Vt = 19.71 Kips  
 Fyt = 60.00 Ksi  
 Ds = 45.00 In.  
 Mc = 214.50 Ft-K  
 Mt = 214.50 Ft-K  
 L.F. = 1.00  
 F'c = 4.50 Ksi

U = 1.00

Irs = 1

\*\*\* SHAFT CROSS SECTION IS ROUND \*\*\*

SUMMARY OF ANALYSIS

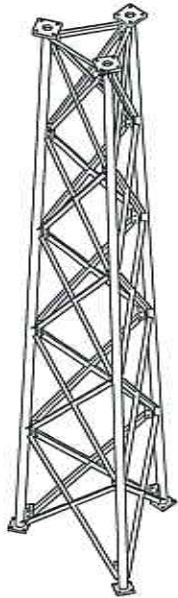
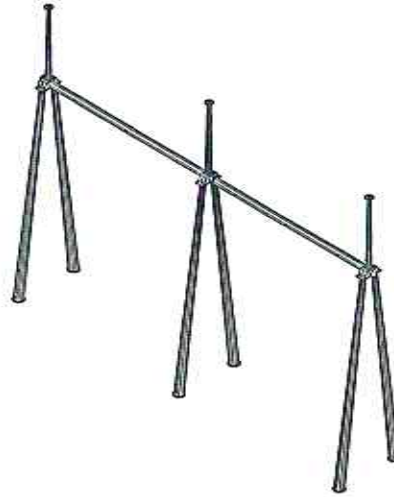
Minimum area of steel req'd. = 11.45 sq.in. (Rhomn = 0.0050)  
Maximum steel area limit = 183.22 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA

Vu &lt; .85\*Vc/2, shear reinforcement is not required.

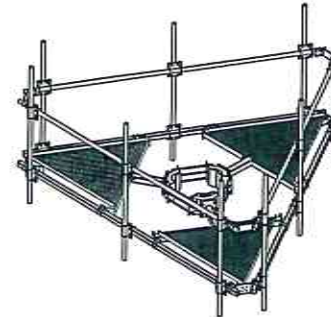
Use maximum tie spacing specified in A.C.I. 318  
Section 7.10.5 for compression reinforcement.DEVELOPMENT LENGTH MODIFIERS FOR TENSION AND COMPRESSION BAR DEVELOPMENT


DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000  
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .313  
REQUIRED Ld = MODIFIER \* BASIC Ld \* ACI 318 MODIFIERS (12 in. min.)  
DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000  
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .339  
REQUIRED Ld = MODIFIER \* BASIC Ld \* ACI 318 MODIFIERS (12 in. min.)

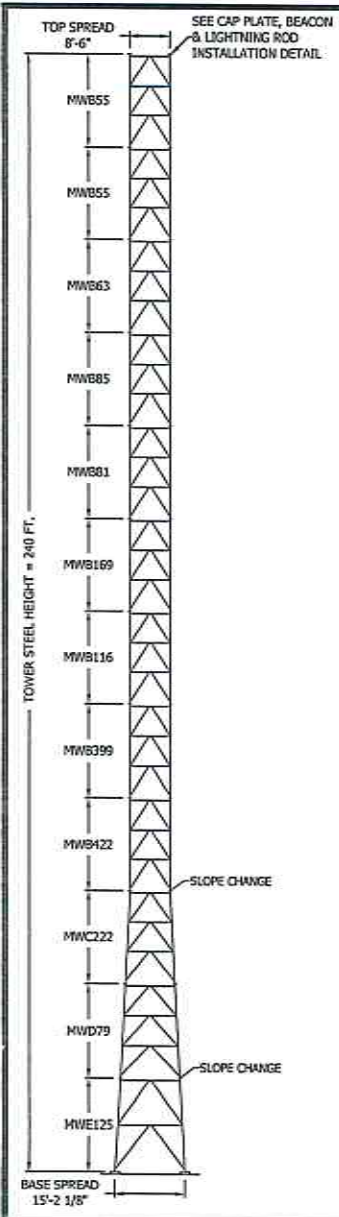


**ROHN**®  
PRODUCTS, LLC

**CMI MICROWAVE  
SPRINGER TEP GEN, AZ  
(GALVANIZED STEEL)**



FILE NO. 222564				
REVISIONS				
REV	DESCRIPTION	DMW	CHK	APP
 PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-723-ROHN				
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240' SSMW TOWER ASSEMBLY				
DRW:	JEC	CHKD:	KTL	DATE: 8/3/2017
ENGR:	SHEET #:			1 OF 1
PRJ. ENGR:	PRJ. MNGR:			
DRAWING NO: 222564CP				REV: 0



**MAXIMUM FACTORED REACTIONS**

COMPRESSION = 304.8 KIPS  
 TENSION = 275.5 KIPS  
 TOTAL SHEAR = 28.8 KIPS  
 O.T.M. = 3,868.7 FT-KIPS

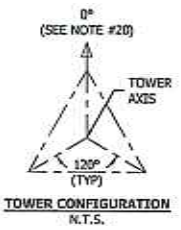
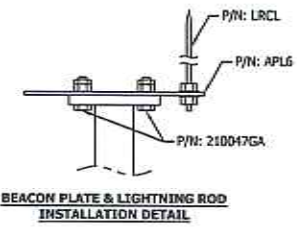
**TOWER DESIGN LOADING**

DESIGN WIND LOAD PER ANSI/TIA-222-G;  
 ULTIMATE WIND SPEED (NO ICE) = 115 MPH PER ASCE 7-10  
 BASIC WIND SPEED (ICE) = 30 MPH  
 DESIGN ICE THICKNESS = 0.25 IN.  
 STRUCTURE CLASS = II  
 EXPOSURE CATEGORY = C  
 TOPOGRAPHIC CATEGORY = 1  
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: SS = 0.242

THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NDM)
240	BEACON AND LIGHTNING ROD	(1) 3/4" CONDUIT
230	(1) HP4 DISH (AZ. 95 DEG.)	(2) LHR400
230	(2) ODU RADIOS	
220	(1) HP6 DISH (AZ. 240 DEG)	(2) EW63
208	(1) HP6 DISH (AZ. 110 DEG)	(1) EW63
182	(1) HP6 DISH (AZ. 110 DEG)	(1) EW63
100	(1) HP4 DISH (AZ. 248 DEG)	(2) LHR400
100	(2) ODU RADIOS	

NOTE: ANTENNA AZIMUTH IS SHOWN IN DEGREES WITHIN THE [BRACKETS].



**ANCHOR MATERIAL**

ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
1	1	24H1518F5T	ANCHOR BOLT STR ASSY 24-10X0	24H1518F5T

**222564LA - TOWER ACCESSORIES**

ITEM	QTY	PART NO.	DESCRIPTION	DWG. NO.
2	1	MWE125	SECTION ASSY MWE 20' BEHS BASE	8870540
3	1	MWD79	SECTION ASSY MWD 20' 6EH	8830906
4	1	MWC222	SECTION ASSY MWC 20' 6EH	802035R
5	1	MWB422	SECTION ASSY MWBST 20' 6EH	MWB422
6	1	MWB399	SECTION ASSY MWBST 20' 6EHS	8830193
7	1	MWB116	SECTION ASSY MWBST 20' SEH	8831431
8	1	MWB169	SECTION ASSY MWBST 20' S5TD	8870923
9	1	MWB81	SECTION ASSY MWBST 20' 4STD	8811329
10	1	MWB85	SECTION ASSY MWBST 20' 3STD	8811343
11	1	MWB63	SECTION ASSY MWBST 20' 2.5STD	8810381
12	2	MWB55	SECTION ASSY MWBST 20' 2.5STD	8900866
13	1	APL6A	PLATE ASSY BEACON 6" PL. PLATE	8760524
14	1	LRLC	LIGHTNING ROD C/CLAD 5/8X5	N/A
15	12	WL20F154KD1	LADDER ASSY W/G FACE 20'.75-.41	C901819
16	1	TT250-URCL-14-04-610	SAFETY DEVICE TUF TUG 250'	DWG-0120
17	1	TT-WIG-500-WJSMC	WIRE GRAB W/CARABINER	N/A
18	35	WY308DA	CLAMP ASSY W/G LAD F/1.5-2.38"	N/A
19	1	ACWS	SIGN ANTI-CLIMB WARNING ASSY	N/A
20	1	ROHN-TAG	STANDARD ROHN TAG	N/A
21	1	A810214	FOUNDATION & ANCHOR TOLERANCE	A810214
22	1	A790135	DRAWING BOLT ASSY	A790135
23	1	B651264	STEPBOLT DETAIL	B651264

- GENERAL NOTES**
- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
  - ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
  - THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
  - SEE INDIVIDUAL SECTION ASSEMBLY DRAWINGS FOR PART NUMBERS AND SECTION ASSEMBLY DETAILS.
  - STEP BOLTS ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
  - REFER TO THE LATEST REVISIONS OF THE DRAWINGS SHOWN IN THE BILL OF MATERIALS.
  - A NUT LOCKING DEVICE IS PROVIDED FOR ALL TOWER BOLTS.
  - THE LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG OF EACH SECTION.
  - DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
  - WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
  - TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
  - PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR CONSTRUCTION MARKING AND LIGHTING.
  - TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
  - DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
  - ALL TOWER ACCESSORIES AND/OR MOUNTS THAT ARE NOT SHOWN IN B.O.M., TO BE SUPPLIED BY OTHERS.
  - NUMBERS SHOWN IN BALLOONS DENOTE ITEM NUMBERS IN BILL OF MATERIAL.
  - ROHN SHALL HAVE THE OPTION TO REVIEW FINAL DISH LOCATIONS, AZIMUTHS AND MOUNTS TO VERIFY THAT ASSUMED TORQUE VALUES AND LOCAL STRESSES ARE NOT EXCEEDED.
  - TOWER ORIENTATION TO BE DETERMINED BY OTHERS.
  - DISH AZIMUTHS SHOWN ARE NOMINAL AZIMUTHS USED FOR DESIGN. ACTUAL AZIMUTHS (TO BE DETERMINED BY OTHERS) MUST NOT RESULT IN INCREASED DESIGN LOADS.
  - THE TOWER AZIMUTH SHOWN IS A RELATIVE AZIMUTH USED TO ESTABLISH THE RELATIVE POSITION OF ANTENNAS WITH RESPECT TO THE TOWER FOR DESIGN.
  - DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE.
  - ONE 15-HOLE WAVEGUIDE LADDER WITH 4'-0" ON CENTER RUNG SPACING IS PROVIDED FROM BASE TO TOP OF TOWER FOR SNAP-ON HANGERS.
  - STEP BOLTS WITH SAFETY DEVICE, LESS HARNESS, ARE PROVIDED FOR CLIMBING THE ENTIRE TOWER HEIGHT.
  - FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

FILE NO. 222564

REVISIONS

REV	DESCRIPTION	DATE	CHK	APP

**ROHN PRODUCTS LLC**  
 PO BOX 5999  
 PEORIA, IL 61601-9999  
 TOLL FREE 800-727-8040

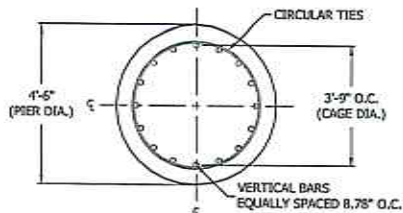
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**CMI MICROWAVE**  
 240' SSMW TOWER ASSEMBLY

SPRINGER TEP GEN, AZ

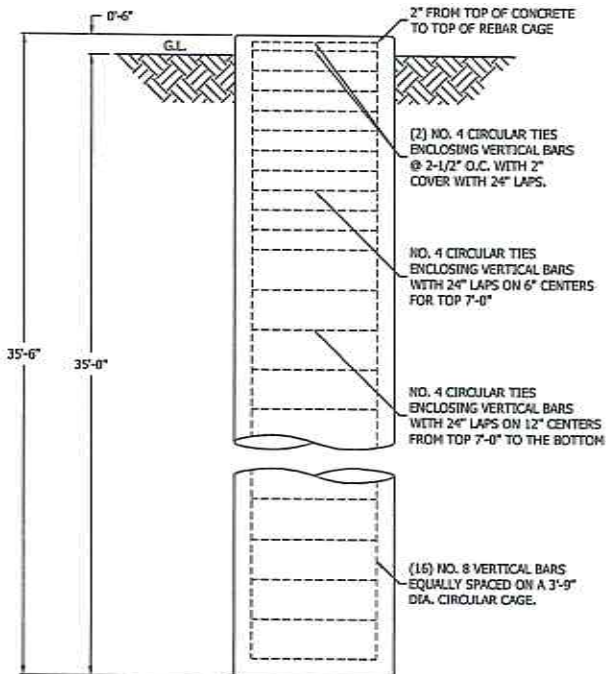
DATE:	8/28/2017
ENGR:	HA
PRJ. ENGR:	OH
DRAWING NO:	222564-01-A1

SHEET # 1 OF 1  
 REV: 0



**PLAN VIEW**

N.T.S.



**ELEVATION VIEW**

N.T.S.

**FACTORED REACTIONS/LEG**

DOWNLOAD = 303.5 KIPS  
 UPLIFT = 275 KIPS  
 SHEAR = 19.7 KIPS


**VOLUME OF CONCRETE**

(1) FOUNDATION 20.9 CU. YDS  
 (3) FOUNDATIONS 62.7 CU. YDS

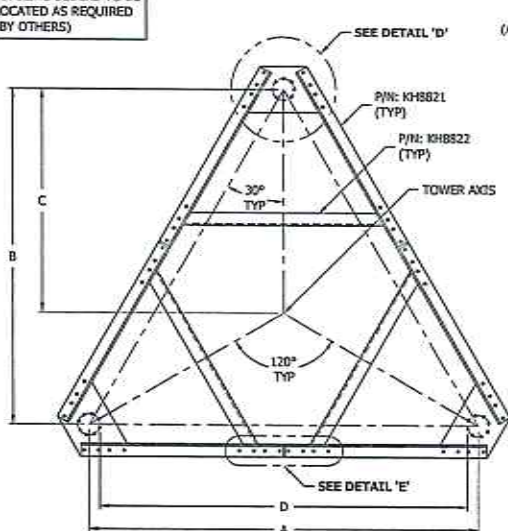
**GENERAL NOTES:**

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 3.0 FT
  - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 3.0 FT TO 10.0 FT DEPTH = 333 PSF; 10.0 FT TO 15.0 FT DEPTH = 667 PSF; 15.0 FT TO 24.0 FT DEPTH = 1200 PSF; 24.0 FT TO 35.0 FT DEPTH = 400 PSF.
  - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 3.0 FT TO 10.0 FT DEPTH = 500 PSF; 10.0 FT TO 15.0 FT DEPTH = 1000 PSF; 15.0 FT TO 24.0 FT DEPTH = 1800 PSF; 24.0 FT TO 35.0 FT DEPTH = 600 PSF.
  - ULTIMATE NET END BEARING AT 35.0 FT = 12.00 KSF.
  - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPA) IN 28 DAYS. TYPE V CEMENT IS TO BE USED IN ALL CONCRETE.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 25149 DATED 6/13/2017 BY YANN ENGINEERING INC.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.
- DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

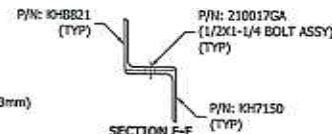
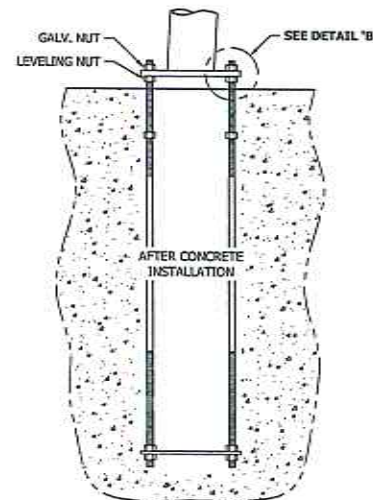
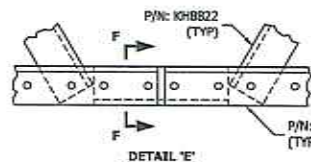
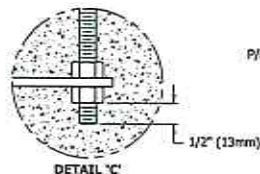
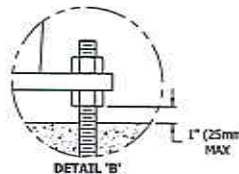
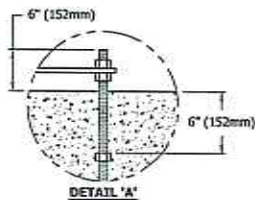
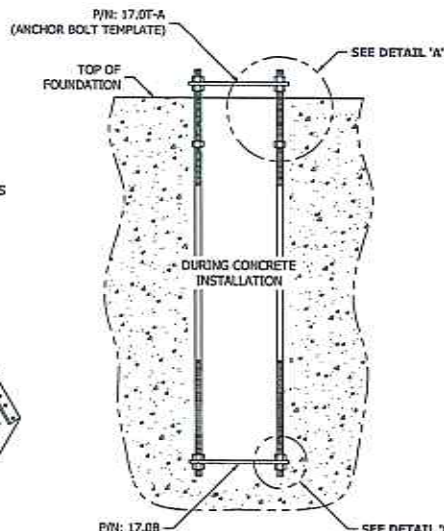
FILE NO.		222564		
REVISIONS				
REV.	DESCRIPTION	DATE	CHK	APP
 RQH PRODUCTS LLC PO BOX 5599 PEORIA, IL 61601-5599 TOLL FREE 800-727-RQH				
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<b>CME MICROWAVE          DRILLED PIER          FOUNDATION DETAILS          SPRINGER TEP GEN, AZ</b>				
DRAWN:	AS	CHKD:	HA	DATE:
				7/31/2017
ENGR:	HA	SHEET #:		1 OF 1
PRJ. ENGR:	CH	PRJ. MNGR:		
DRAWING NO:	222564-01-F1			REV:
				0

LEVELING BLOCKS TO BE LOCATED AS REQUIRED (BY OTHERS)



PLAN VIEW  
N.T.S.

A	B	C	D
15'-2 1/8" (4.626M)	13'-1 3/4" (4.007M)	8'-9 1/8" (2.670M)	14'-0 5/8" (4.283M)



**ANCHOR BOLT INSTALLATION TOLERANCES**

- FACE SPREAD DIMENSION CENTER-TO-CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2mm) OR 1/16"(2mm) PER 20 FT. (6m) OF FACE SPREAD.
- MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).
- CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25mm).
- DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
- DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
- REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
- PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3mm).
- VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2 DEGREE.
- MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (50mm).
- ANCHOR BOLT SPACING - 1/16" (2mm).
- ANCHOR BOLT CIRCLE ORIENTATION - 1/4 DEGREE.
- ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2mm).

**!!! WARNING !!!**

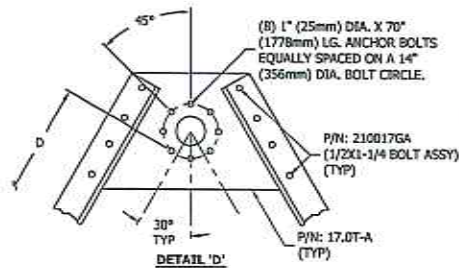
- ENSURE DIMENSIONS A-D ARE CORRECT ON ALL FACES PRIOR TO PLACING CONCRETE AND THAT THE NUMBER AND SIZE OF ANCHOR BOLTS MATCHES THE STRUCTURE DRAWING.
- AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER.

**ANCHOR BOLT TIGHTENING NOTES**

- NUTS, THREADS AND ALL NUT CONTACT SURFACES MUST BE CLEANED AND LUBRICATED AFTER CONCRETE INSTALLATION AND IMMEDIATELY BEFORE INSTALLATION OF LEVELING AND TOP NUTS. NUTS MUST BE FREE TO MOVE THROUGHOUT THE ENTIRE LENGTH OF THE ANCHOR BOLT THREAD PROJECTION.
- AFTER LEVELING THE LEVELING NUTS AND SETTING THE BASE PLATE, TOP NUTS MUST BE INSTALLED IN AN INCREMENTAL STAR TIGHTENING SEQUENCE TO A SNUG TIGHT CONDITION FOLLOWED BY TIGHTENING THE LEVELING NUTS IN A SIMILAR PATTERN TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED BY THE TIGHTNESS OBTAINED WITH THE EFFORT OF ONE PERSON WITH A 12 INCH NOMINAL LENGTH WRENCH. AFTER ALL TOP AND LEVELING NUTS ARE TIGHTENED TO A SNUG TIGHT CONDITION, TOP NUTS SHALL BE FURTHER TIGHTENED IN AN INCREMENTAL STAR PATTERN WITH THE LEVELING NUTS SECURED TO RESULT IN A 1/3 TOP NUT ROTATION FOR ANCHOR BOLTS 1-1/2 INCHES OR LESS IN DIAMETER, OR A 1/6 TOP NUT ROTATION FOR ANCHOR BOLTS GREATER THAN 1-1/2 INCHES IN DIAMETER.

**NOTES**

- ALL ANCHOR BOLTS MUST MEET OR EXCEED REQUIREMENTS OF A.S.T.M. F1554-S2, SS GRADE 105.
- ANCHOR BOLTS ARE GALVANIZED FULL LENGTH UNLESS OTHERWISE SPECIFIED.
- SPECIAL CARE MUST BE TAKEN WHEN LIFTING ANCHOR BOLT CLUSTER TO PREVENT ANCHOR BOLT TEMPLATE DISTORTION.
- ANCHOR BOLT ASSEMBLY MUST BE ADEQUATELY SUPPORTED AND RESTRAINED TO PREVENT MOVEMENT OF THE CLUSTER DURING CONCRETE INSTALLATION.
- IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.
- IT IS THE RESPONSIBILITY OF THE FOUNDATION DESIGN ENGINEER TO INSURE THAT THE ANCHORAGES PROVIDED ARE COMPATIBLE WITH THE PROPOSED FOUNDATION DESIGNS AND THAT THE CAPACITIES OF THE ANCHORAGES ARE NOT LIMITED BY THE STRENGTH OF THE FOUNDATIONS.



**!!! WARNING !!!**

- PRIOR TO PLACING CONCRETE:
- CHECK THAT THE TEMPLATE ANCHOR BOLT CIRCLE MATCHES THE ANCHOR BOLT CIRCLE SHOWN ON THE STRUCTURAL DRAWING.
  - CALL ROHN (309)-566-3000 FOR ANY DISCREPANCY.

FILE NO.

REVISIONS				
REV	DESCRIPTION	DWIT	CHK	APP

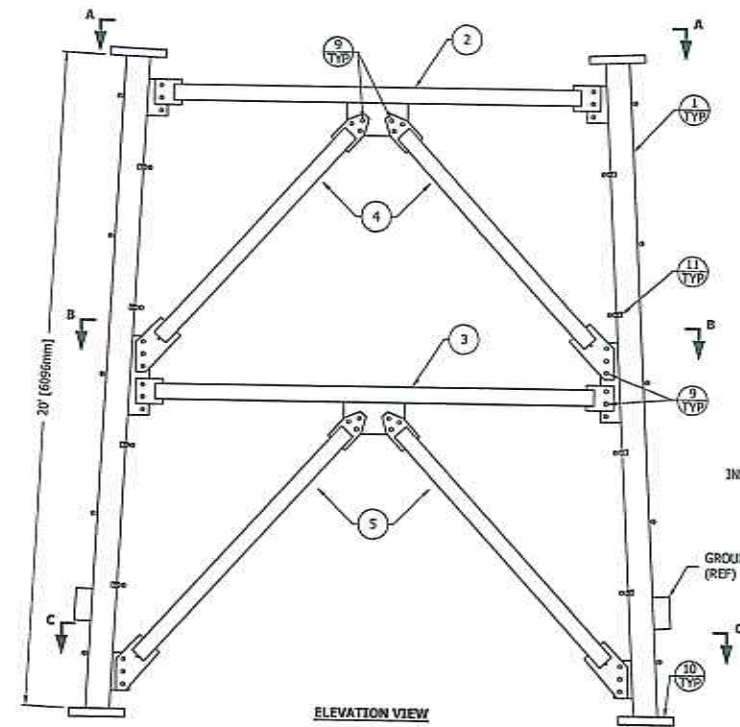
**ROHN**  
PRODUCTS LLC

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FEARDA, IL 61601-5999  
TOLL FREE 800-727-ROHN

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ANCHOR BOLT LAYOUT  
1" (25mm)Ø BOLTS (24H1518FST)

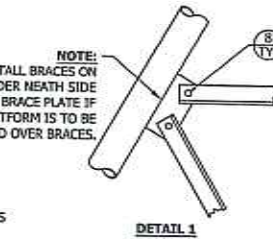
DWR:	JEC	OKCD:	KTL	DATE:	8/3/2017	
ENGR:	HA	SHEET #:	1 OF 1			
PRJ. ENGR:	OH	PRJ. MGR:				
DRAWING NO:	24H1518FST				REV:	0



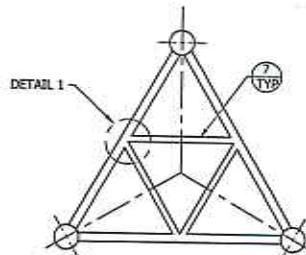
ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	17" X 17" X 2" (P/N: 17A)	12-11 1/8" [3940mm]
BOTTOM	N/A	3.3° STD	17" X 17" X 2" (P/N: 17A)	15-2 1/8" [4826mm]

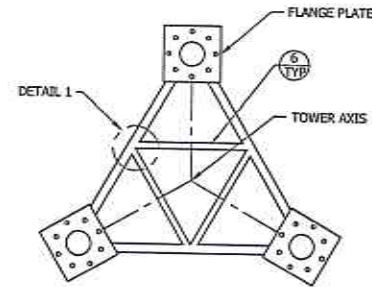
NOTE:  
INSTALL BRACES ON  
UNDER MEATH SIDE  
OF BRACE PLATE IF  
PLATFORM IS TO BE  
INSTALLED OVER BRACES.



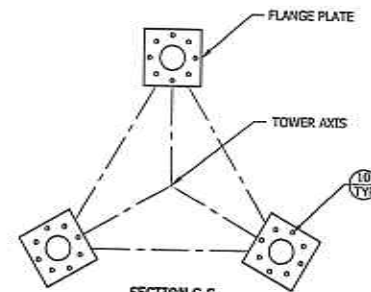
DETAIL 1



SECTION B-B



SECTION A-A



SECTION C-C

SECTION ASSEMBLY P/N: MWE125

BILL OF MATERIALS

ITEM	PART NO.	QTY	DESCRIPTION
1	WA767	3	LEG MWE 8845 20' 17-17 [PIPE 203mm EH5]
2	WE25	3	BRACE H MWE 25TDX11.98' [PIPE 51mm STD]
3	WE26	3	BRACE H MWE 25TDX13.06' [PIPE 51mm STD]
4	WE17	6	BRACE D MWE 2.55TDX10.86' [PIPE 64mm STD]
5	WE18	6	BRACE D MWE 2.55TDX11.52' [PIPE 64mm STD]
6	WE23	3	BRACE HS1 MWE LZK.13X5.71' [L 51x51x3]
7	WE24	3	BRACE HS2 MWE LZK.13X5.26' [L 51x51x3]
8	210029GA	12	BOLT ASSY 5/8X1-1/2 A325 HDG [M16x38]
9	210030GA	96	BOLT ASSY 5/8X1-3/4 A325 HDG [M19x44]
10	110164	24	NUT HVY HEX PAL 1 HDG [M25]
11	5/RSTEP	48	BOLT ASSY STEP 5/8X7 W/D8N [M16x178]

GENERAL NOTES:

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL THREE LEGS.
- THIS IS A BASE SECTION. SEE THE TOWER ASSEMBLY FOR ANCHOR BOLTS. A NUT LOCKING DEVICE IS SUPPLIED FOR THE ANCHOR BOLTS.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

FILE NO.

REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
1	REVISID TO LATEST FORMS			

DATE: 05/02/97

**ROHN**  
PRODUCTS

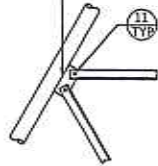
PO BOX 5709  
PEORIA, IL 61601-5709  
TOLL FREE 800-723-ROHN

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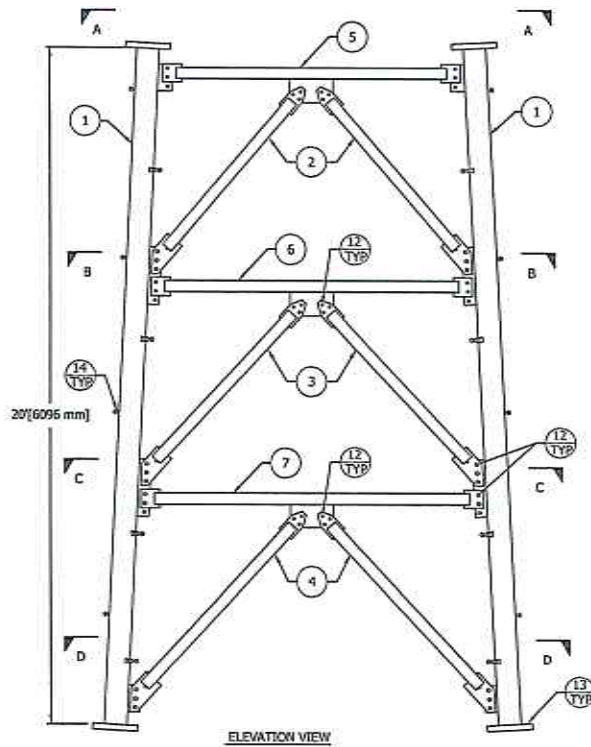
SECTION ASSEMBLY  
DETAILS FOR MWE125 (BASE)

DWN:	PJB	D-NO:	KTL	DATE:	05/11/1987
ENGR:	TS	SHEET #:	1 OF 1		
PRJ. ENGR:		PRJ. MNGR:			
DRAWING NO:	BB70540			REV:	1

NOTE:  
INSTALL BRACES ON UNDERNEATH SIDE  
OF BRACE PLATE IF PLATFORM IS TO BE  
INSTALLED OVER BRACES.



DETAIL 1



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	13 1/2" X 13 1/2" X 1/4" (P/N: 135B)	10'-9 1/2" [3289mm]
BOTTOM	1" [25mm]	N/A	17" X 17" 2" (P/N: 17D)	12'-11 1/8" [3940mm]

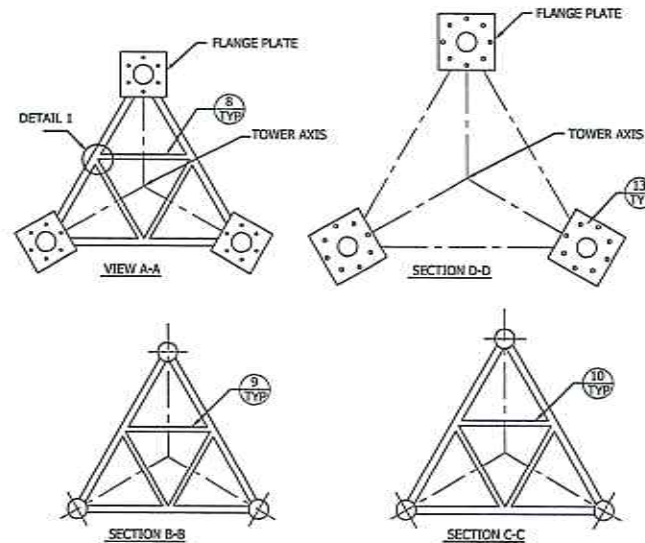
SECTION ASSEMBLY P/N: MWD79

BILL OF MATERIALS

ITEM	PART NO.	QTY	DESCRIPTION
1	WA350	3	LEG MWB-D 6EH 20'135 17 1"OFF [PIPE 152mm EH]
2	WD27	6	BRACE D MWD 2.55TDX7.45' [PIPE 64mm STD]
3	WD28	6	BRACE D MWD 2.55TDX7.98' [PIPE 64mm STD]
4	WD29	6	BRACE D MWD 2.55TDX8.21' [PIPE 64mm STD]
5	WD33	3	BRACE H MWD 25TDX9.97' [PIPE 51mm STD]
6	WD34	3	BRACE H MWD 25TDX10.60' [PIPE 51mm STD]
7	WD35	3	BRACE H MWD 25TDX11.27' [PIPE 51mm STD]
8	WD30	3	BRACE HS1 MWD L2X.13X4.71' [L 51x51x3]
9	WD31	3	BRACE HS2 MWD L2X.13X5.03' [L 51x51x3]
10	WD32	3	BRACE HS3 MWD L2X.13X5.36' [L 51x51x3]
11	210029GA	18	BOLT ASSY 5/8 X 1-1/2 HSB A325 [M16x38]
12	210030GA	144	BOLT ASSY 5/8 X 1-3/4 HSB A325 [M16x44]
13	210169GA	24	BOLT ASSY 1 X 6 HSB A325 [M25x152]
14	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN [M16x178]

GENERAL NOTES:

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS IN I.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



FILE NO.

REVISIONS:

REV	DESCRIPTION	DW1	CHK	APP
1	RELEASED IN AUTOCAD			
	DATE: 04/06/12	CEJ	PDF	DWG

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SECTION ASSEMBLY  
DETAILS FOR SSMW MWD79

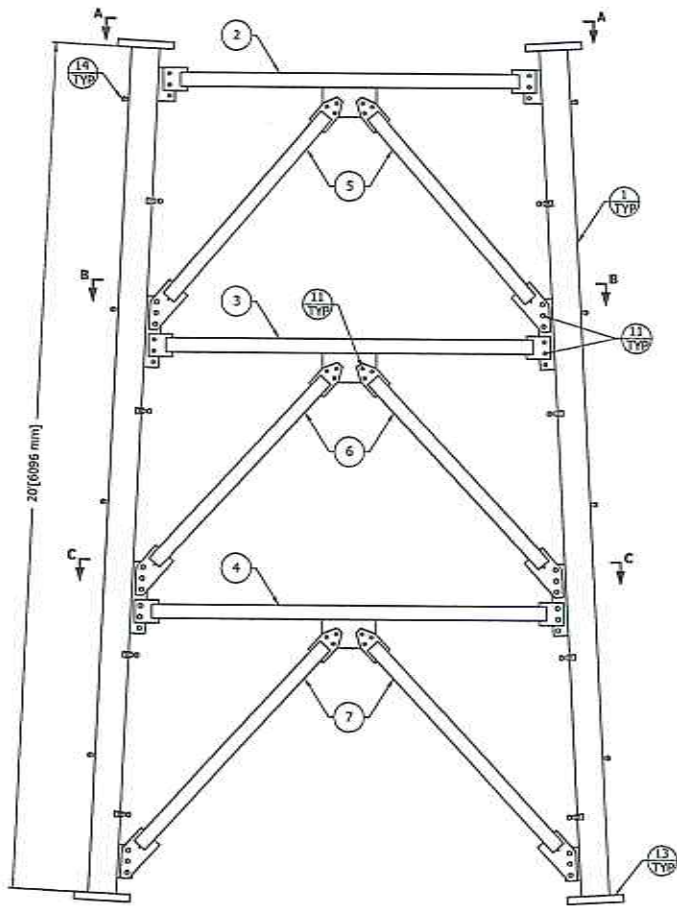
DW1: GPW    CHK'D: RM    DATE: 04/06/12

ENGR: TS    SHEET #: 1 OF 1

PRJ. ENGR:    PRJ. MGR:

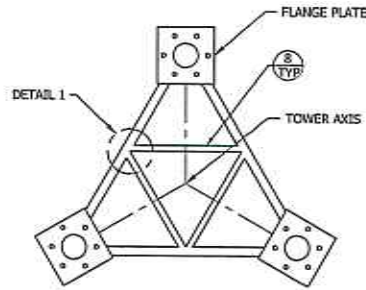
DRAWING NO:  
8830906

REV:  
3

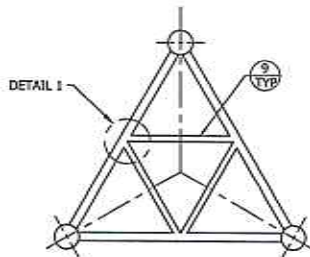


**ELEVATION VIEW**

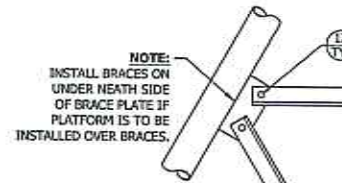
FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 135B)	8'-9 1/2" [2680mm]
BOTTOM	N/A	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 135B)	10'-9 1/2" [3289mm]



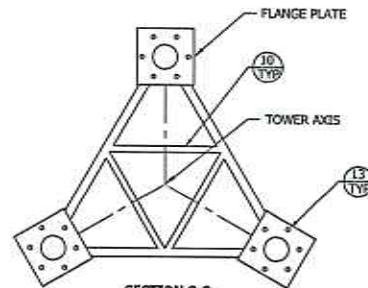
**SECTION A-A**



**SECTION B-B**



**DETAIL 1**



**SECTION C-C**

**SECTION ASSEMBLY P/N: MWC222**

**BILL OF MATERIALS**

ITEM	PART NO.	QTY	DESCRIPTION	
1	WA415	3	LEG HWB-D 6EH 135 135 B11	[PIPE 152mm EH]
2	WC91	3	BRACE H MWC 2STDx7.92"	[PIPE 51mm STD]
3	WC92	3	BRACE H MWC 2STDx8.59"	[PIPE 51mm STD]
4	WC93	3	BRACE H MWC 2STDx9.26"	[PIPE 51mm STD]
5	WC94	6	BRACE D MWC 2.5STDx6.84"	[PIPE 64mm STD]
6	WC95	6	BRACE D MWC 2.5STDx7.367"	[PIPE 64mm STD]
7	WC96	6	BRACE D MWC 2.5STDx7.56"	[PIPE 64mm STD]
8	WC88	3	BRACE H MWC L2X.L3X3.69"	[LS1X31X3]
9	WC89	3	BRACE H MWC L2X.L3X4.01"	[LS1X31X3]
10	WC90	3	BRACE H MWC L2X.L3X4.338"	[LS1X31X3]
11	210009GA	194	BOLT ASSY 5/8X1-3/4 A325 HDG	[M16x44]
12	210029GA	18	BOLT ASSY 5/8X1-1/2 A325 HDG	[M16x38]
13	210069GA	18	BOLT ASSY 1X1-1/4 A325 HDG	[M25x168]
14	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBH	[M16x178]

**GENERAL NOTES:**

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.

FILE NO.

REVISIONS				
REV	DESCRIPTION	DWG	CHK	APP
1	REVISED TO LATEST FORM		JCM	HA
DATE: 09/06/2017				

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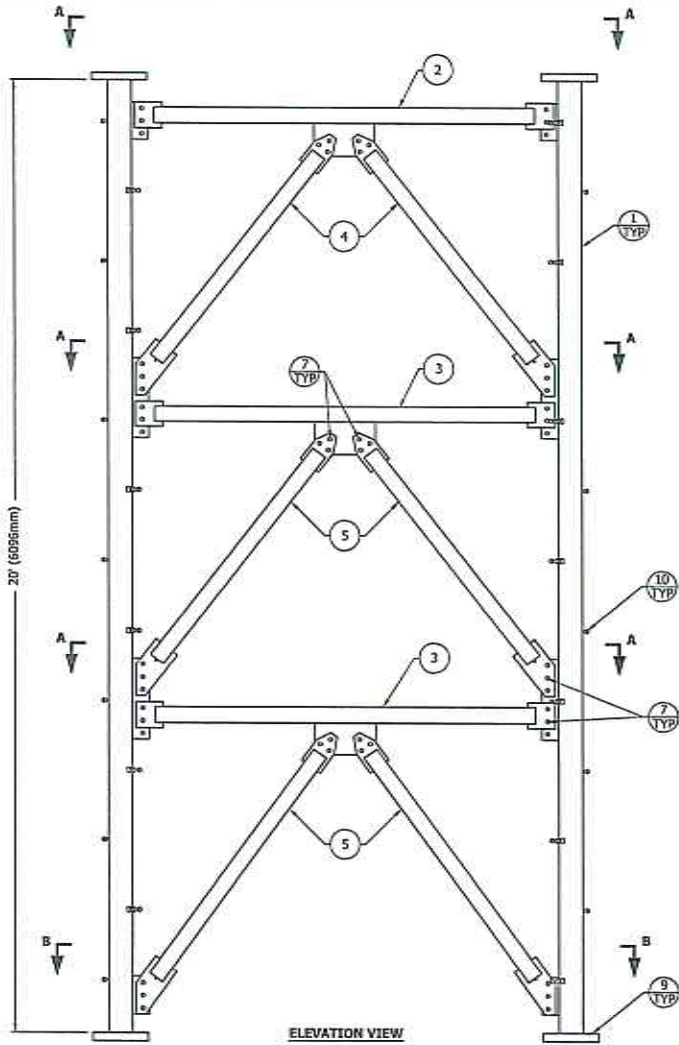
**SECTION ASSEMBLY  
DETAILS FOR MWC222**

DATE: JCM C-KC: KTL DATE: 08/02/2002

ENGR: HA SHEET #: 1 OF 1

PRJ. ENGR: PRJ. MGR:

DRAWING NO: B020398 REV: 1



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 135B)	8'-9 1/2" [2680mm]
BOTTOM	N/A	3 1/3 REV	13 1/2" X 13 1/2" X 1 1/4" (P/N: 135B)	8'-9 1/2" [2680mm]

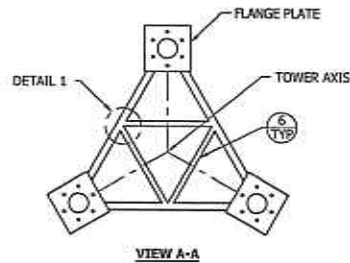
SECTION ASSEMBLY P/N: MWB422

BILL OF MATERIALS

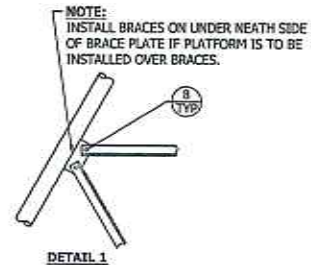
ITEM	PART NO.	QTY	DESCRIPTION
1	WA762	3	LEG MWB-D 6EH 20' 135-135 [PIPE 152mm EH]
2	WB84	3	BRACE H MWB 2STDx7.94' STR [PIPE 51mm STD]
3	WB85	6	BRACE H MWB 2STDx7.94' STR [PIPE 51mm STD]
4	WB82	6	BRACE D MWB 2.5STDx6.69' [PIPE 64mm STD]
5	WB83	12	BRACE D MWB 2.5STDx7.036' [PIPE 64mm STD]
6	WB46	9	BRACE HSI MWB L2X.L3X3.72' [L 51x51x3]
7	210030GA	144	BOLT ASSY 5/8X1-3/4 A325 HDG [M16x44]
8	210029GA	18	BOLT ASSY 5/8X1-1/2 A325 HDG [M16x38]
9	210069GA	18	BOLT ASSY 1X4-1/4 A325 HDG [M25x106]
10	5/8STEP	40	BOLT ASSY STEP 5/8X7 W/D6H [M16xL78]

GENERAL NOTES:

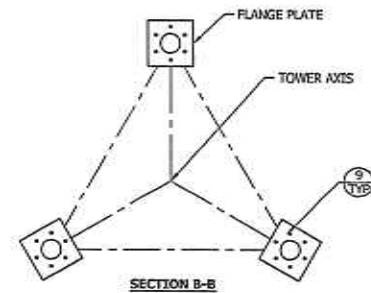
- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



DETAIL 1



SECTION B-B

FILE NO.

REVISIONS			
REV	DESCRIPTION	DATE	APP

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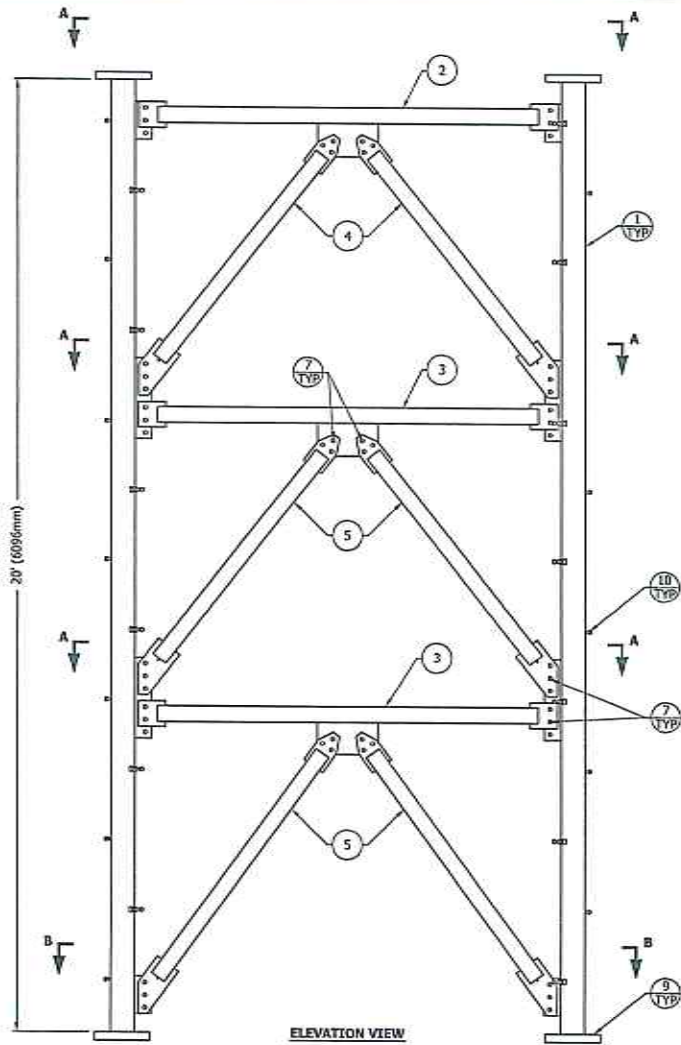
SECTION ASSEMBLY  
DETAILS FOR SSMW MWB422

DWGN:	JEC	CHK'D:	KTL	DATE:	8/10/2017
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ENGR:	FA	SHEET #:	1 OF 1
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PRJ. ENGR:	PRJ. MGR:
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DRAWING NO:	MWB422	REV:	0
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ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 1358)	8'-9 1/2" [2680mm]
BOTTOM	N/A	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 1358)	8'-9 1/2" [2680mm]

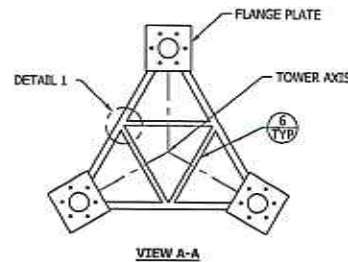
**SECTION ASSEMBLY P/N: MWB399**

**BILL OF MATERIALS**

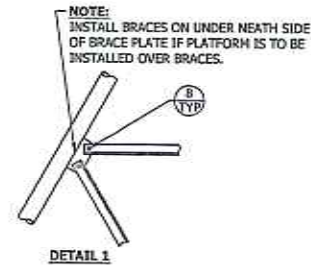
ITEM	PART NO.	QTY	DESCRIPTION
1	WA329	3	LEG MWB-D 6EHS 20' 135 135 B11 [PIPE 152mm EHS]
2	WB50	3	BRACE H MWB 1.55TDX7.94' [PIPE 38mm STD]
3	WB51	6	BRACE H MWB 1.55TDX7.94' [PIPE 38mm STD]
4	WB86	6	BRACE D MWB 2.55TDX6.71' [PIPE 64mm STD]
5	WB97	12	BRACE D MWB 2.55TDX7.06' [PIPE 64mm STD]
6	WB96	9	BRACE HS1 MWB L2X L3X1.72' [L 51x51x3]
7	210029GA	144	BOLT ASSY 5/8X1-3/4 A325 HDG [M16x4]
8	210029GA	18	BOLT ASSY 5/8X1-1/2 A325 HDG [M16x38]
9	210069GA	18	BOLT ASSY 1X4-1/4 A325 HDG [M25x108]
10	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN [M16x178]

**GENERAL NOTES:**

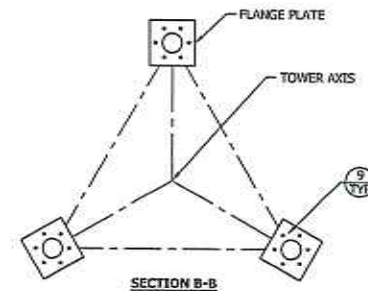
- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



DETAIL 2



SECTION B-B

FILE NO.

REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
1	REVISED TO LATEST FORM		JCH	HA

DATE: 09/05/2007

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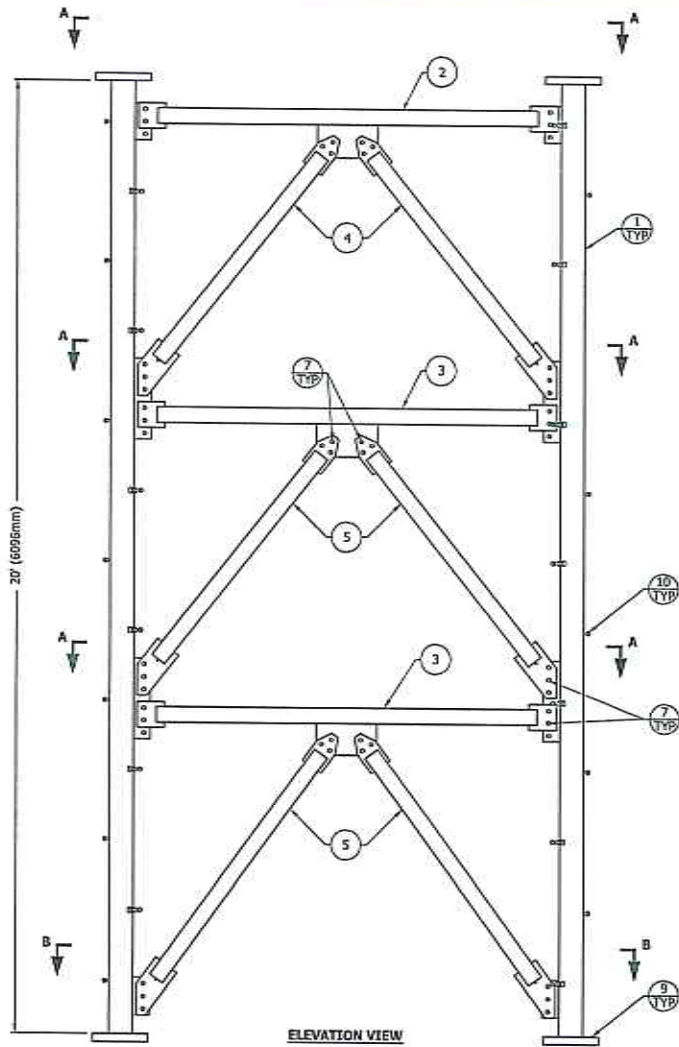
**SECTION ASSEMBLY  
DETAILS FOR SSMW MWB399**

DRAWN: KTL	CHKD: JMN	DATE: 5/29/2003
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ENGR: HA	SHEET #: 1 OF 1
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PRJ. ENGR:	PRJ. MGR:
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DRAWING NO: B030193	REV: 1
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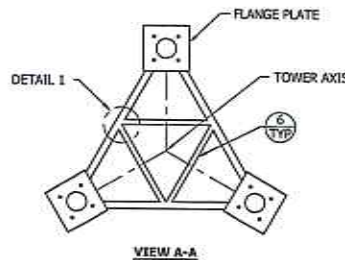
ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	9 1/2" X 9 1/2" X 1 1/4" (P/N: 95C)	8'-8 1/2" [2654mm]
BOTTOM	1/2" (13mm)	N/A	13 1/2" X 13 1/2" X 1 1/4" (P/N: 135A)	8'-9 1/2" [2680mm]

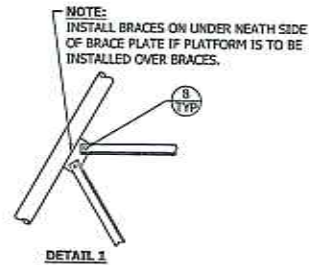
SECTION ASSEMBLY P/N: MWB116			
BILL OF MATERIALS			
ITEM	PART NO.	QTY	DESCRIPTION
1	WA351	3	LEG MWB-O SEH 20'95 135 .5"OFF [PIPE 127mm EH]
2	WB50	3	BRACE H MWB 1.55TDK7.94' [PIPE 38mm STD]
3	WB51	6	BRACE H MWB 1.55TDK7.94' [PIPE 38mm STD]
4	WB60	6	BRACE D MWB 25TDK6.71' [PIPE 51mm STD]
5	WB61	12	BRACE D MWB 25TDK7.06' [PIPE 51mm STD]
6	WB45	9	BRACE HSL MWB L2X.13X3.72' [L 51x51x3]
7	210030GA	144	BOLT ASSY 5/8X1-3/4 A325 HDG [M16x4]
8	210029GA	18	BOLT ASSY 5/8X1-1/2 A325 HDG [M16x38]
9	210069GA	18	BOLT ASSY 1X4-1/4 A325 HDG [M25x108]
10	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN [M16x178]

GENERAL NOTES:

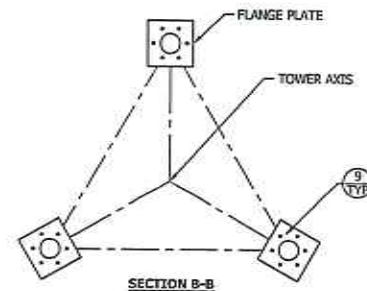
- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
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VIEW A-A



DETAIL 1



SECTION B-B

REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
2	REVISED TO LATEST FOOTPRINT	JRC	JCH	RA
DATE: 05/06/2017				

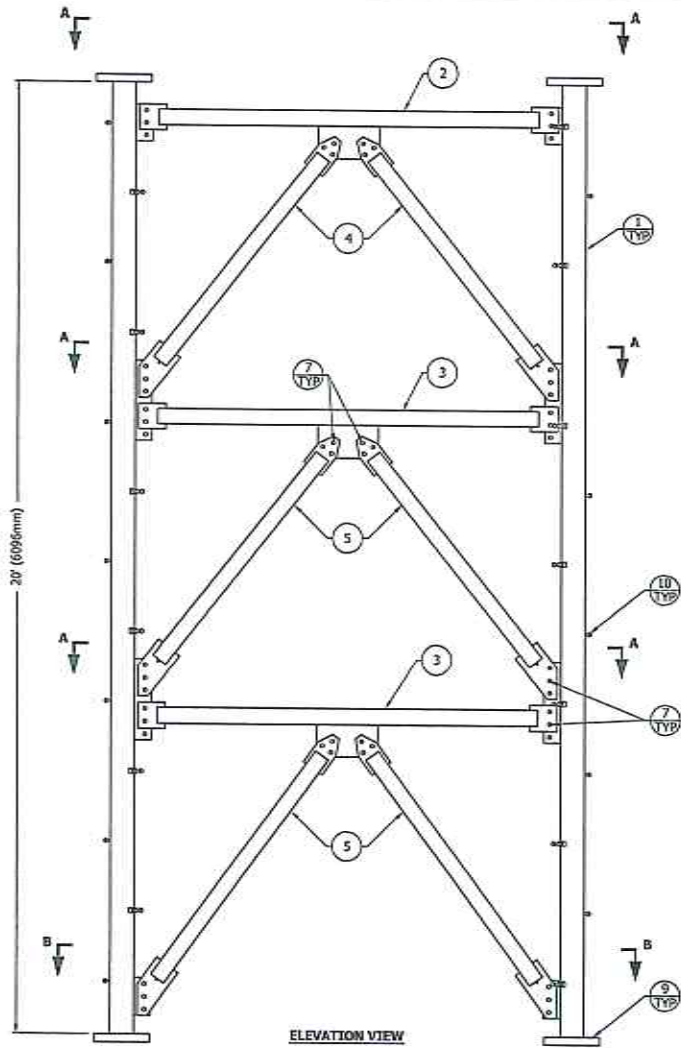



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<b>SECTION ASSEMBLY DETAILS FOR SSMW MWB116</b>				
DWN:	CHKD:	KTL	DATE:	12/15/1993
ENGR:	TS	SHEET #:		1 OF 1
PRJ. ENGR:	PRJ. MGR:			REV:
DRAWING NO:				8831431
				2



ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	9 1/2" X 9 1/2" X 1 1/4" (P/N: 95C)	8'-8 1/2" [2654mm]
BOTTOM	N/A	N/A	9 1/2" X 9 1/2" X 1 1/4" (P/N: 95C)	8'-8 1/2" [2654mm]

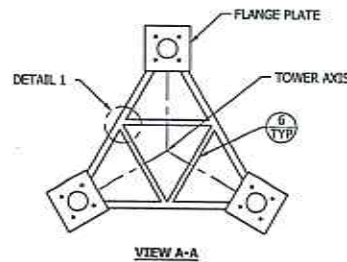
SECTION ASSEMBLY P/N: MWB169

BILL OF MATERIALS

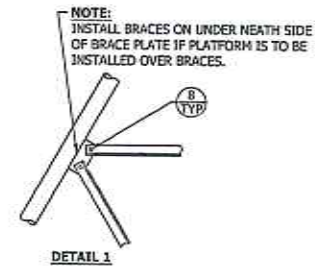
ITEM	PART NO.	QTY	DESCRIPTION
1	WA38R	3	LEG MWB-D 5STD 20' 95-95 [PIPE 127mm STD]
2	WB50	3	BRACE H MWB 1,5STDx7,94' [PIPE 38mm STD]
3	WB51	6	BRACE H MWB 1,5STDx7,94' [PIPE 38mm STD]
4	WB60	6	BRACE D MWB 25TDx6,71' [PIPE 51mm STD]
5	WB61	12	BRACE D MWB 25TDx7,06' [PIPE 51mm STD]
6	WB4G	9	BRACE HSI MWB L2X,13x3,72' [L 51x51x3]
7	210030GA	144	BOLT ASSY 5/8X1-3/4 A325 HDG [M16x44]
8	210029GA	18	BOLT ASSY 5/8X1-1/2 A325 HDG [M16x38]
9	210069GA	18	BOLT ASSY 1X4-1/4 A325 HDG [M25x108]
10	5/NSTEP	48	BOLT ASSY STEP 5/8X7 W/DBN [M16x178]

GENERAL NOTES:

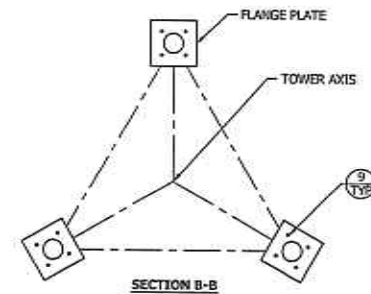
- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS IN I.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



VIEW A-A



DETAIL 1



SECTION B-B

FILE NO.

REVISIONS

REV	DESCRIPTION	OWN	CHK	APP
1	ISSUED TO LATEST FORMAT	JEC	JDM	HL

DATE: 09/29/2017

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SECTION ASSEMBLY  
DETAILS FOR SSMW MWB169

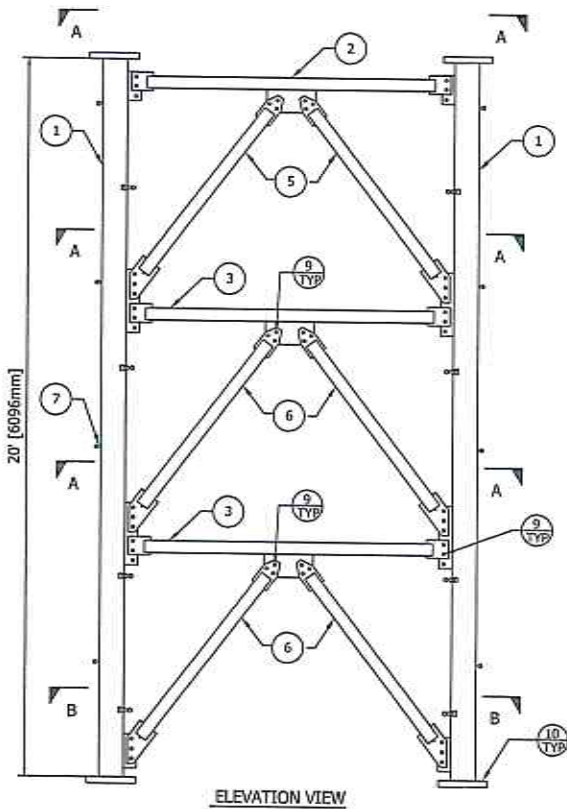
OWN: KTL    CHK'D: WDU    DATE: 9/29/1987

ENGR: TS    SHEET #: 1 OF 1

PRJ. ENGR:    PRJ. MANGER:

DRAWING NO: BB70923

REV: 1

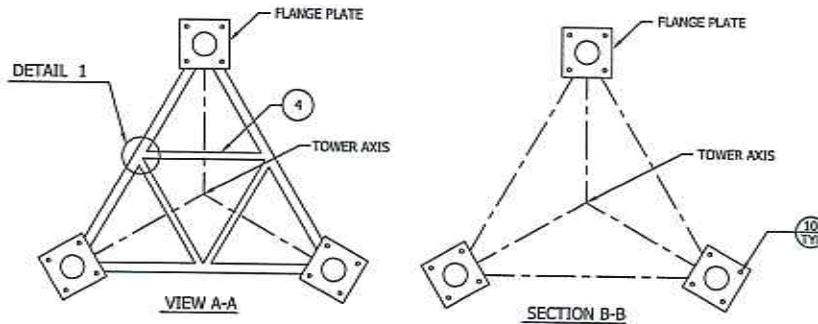


ELEVATION VIEW

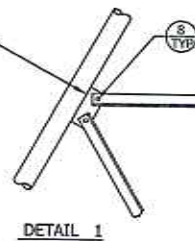
SECTION ASSEMBLY P/N: MWB81				
BILL OF MATERIALS				
ITEM	PART NO.	QTY	DESCRIPTION	
1	WA316	3	LEG MWB-D 4STD 20' 7 95.5"	[PIPE 102mm STD]
2	WB50	3	BRACE H MWB 1.55TDX7.94'	[PIPE 38mm STD]
3	WB51	6	BRACE H MWB 1.55TDX7.94'	[PIPE 38mm STD]
4	WB46	9	BRACE HSL MWB L2X.13X3.72'	[I 51x51x3]
5	WB60	6	BRACE D MWB 2STDx6.71'	[PIPE 51mm STD]
6	WB61	12	BRACE D MWB 2STDx7.06'	[PIPE 51mm STD]
7	5/RSTEP	48	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]
8	210029GA	18	BOLT ASSY 5/8 X 1-1/2 HSB A325	[M16x38]
9	210030GA	144	BOLT ASSY 5/8 X 1-3/4 HSB A325	[M19x44]
10	210069GA	12	BOLT ASSY 1 X 4-1/4 HSB A325	[M25x108]

**GENERAL NOTES:**

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



NOTE:  
INSTALL BRACES ON UNDERNEATH SIDE OF BRACE PLATE IF PLATFORM IS TO BE INSTALLED OVER BRACES.



DETAIL 1

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	7" X 7" X 1" (P/N: 7G)	8'-7 1/2" [2629mm]
BOTTOM	1/2" [13mm]	N/A	9 1/2" X 9 1/2" X 1 1/4" (P/N: 95B)	8'-8 1/2" [2654mm]

FILE NO.	Standard-SSV			
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
1	UPDATED BRACES	CEJ	ETL	HL
DATE: 08/23/16				

DWG REFERENCE	

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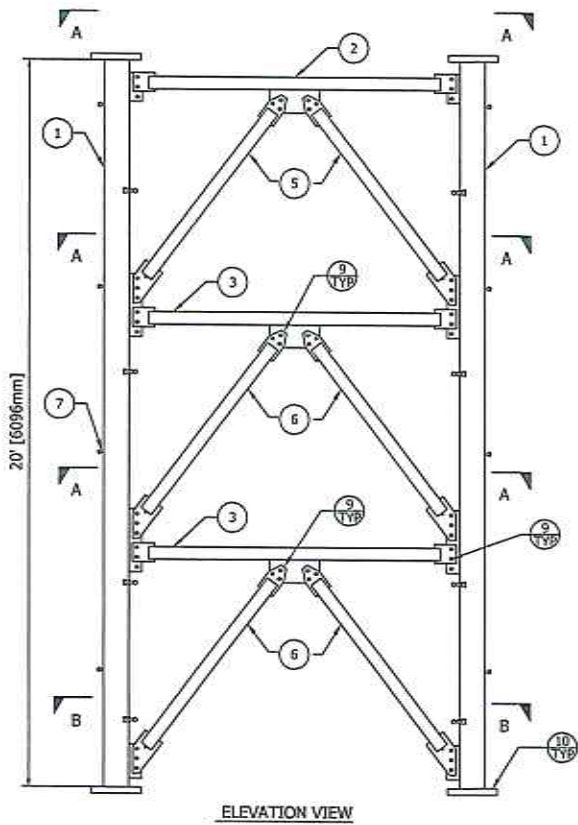
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SECTION ASSEMBLY  
DETAILS FOR MWB81

DWR:	RKB	CHKD:	WDU	DATE:	Nov/05/1991
ENGR:	XK				
DRAWING NO:	BB11329			REV:	3

June 12, 2012 3:15:23 PM

16mm x 4



ELEVATION VIEW

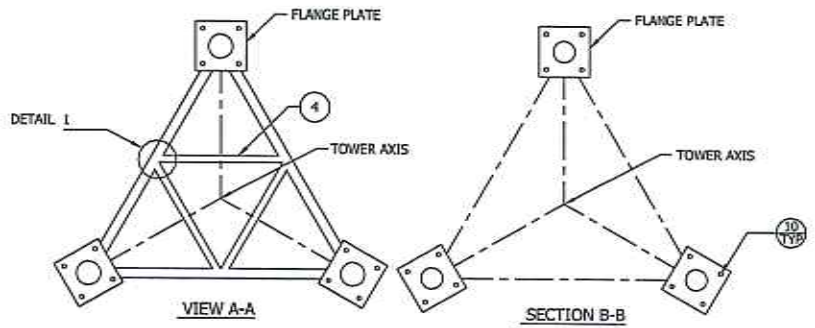
FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	7" X 7" X 1" (P/N: 7D)	8'-6 1/2" [2604mm]
BOTTOM	1/2" [13mm]	N/A	7" X 7" X 1" (P/N: 7J)	8'-7 1/2" [2629mm]

**SECTION ASSEMBLY P/N: MWB85**

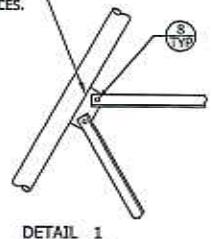
**BILL OF MATERIALS**

ITEM	PART NO.	QTY	DESCRIPTION
1	WA356	3	LEG MWB-D 3STD 20' 7 7/8" OFF [PIPE 76mm STD]
2	WB50	3	BRACE H MWB 1.5STD X 7.94' [PIPE 38mm STD]
3	WB51	6	BRACE H MWB 1.5STD X 7.94' [PIPE 38mm STD]
4	WB46	9	BRACE HSL MWB L2X.13X3.72' [L 51x51x3]
5	WB60	6	BRACE D MWB 2STD X 6.71' [PIPE 51mm STD]
6	WB61	12	BRACE D MWB 2STD X 7.06' [PIPE 51mm STD]
7	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN [M16x178]
8	210029GA	18	BOLT ASSY 5/8 X 1-1/2 HSB A325 [M16x38]
9	210030GA	144	BOLT ASSY 5/8 X 1-3/4 HSB A325 [M16x44]
10	210063GA	12	BOLT ASSY 7/8 X 3-1/2 HSB A325 [M22x89]

- GENERAL NOTES:**
1. LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
  2. STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
  3. FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
  4. DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
  5. NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



NOTE:  
INSTALL BRACES ON UNDERNEATH SIDE OF BRACE PLATE IF PLATFORM IS TO BE INSTALLED OVER BRACES.



DETAIL 1

FILE NO.	Standard-SSV			
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
1	REBRAN NEW AUTOCAD FORMAT.	DAN	ETL	HA
DATE: 2012				

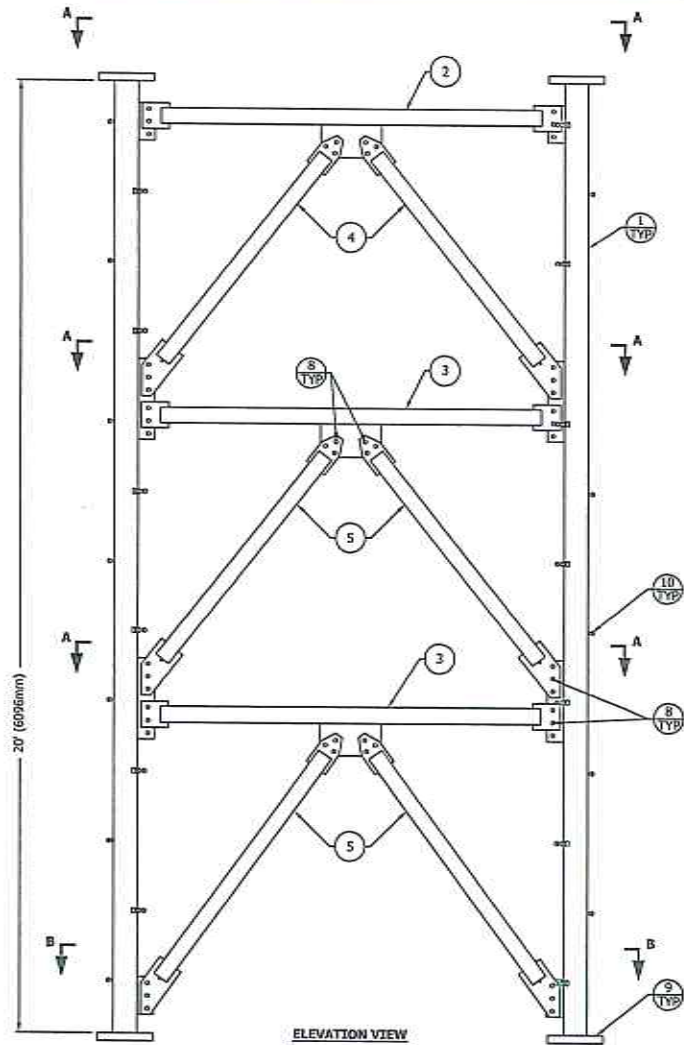
DWG REFERENCE	

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**SECTION ASSEMBLY  
DETAILS FOR MWB85**

DWPN:	RKD	CHKD:	WDU	DATE:	Nov/06/1981
ENG:	XC				
DRAWING NO.:	B811343			REV:	3



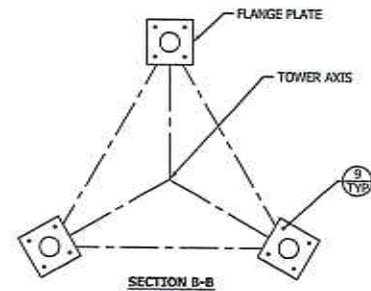
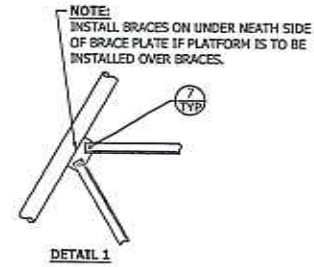
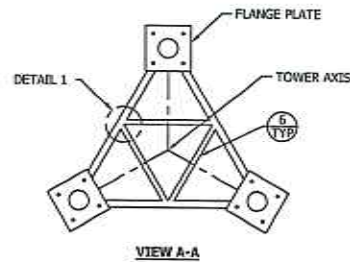
ELEVATION VIEW

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	6" X 6" X 3/4" (P/N: 6B)	8'-6" (2591mm)
BOTTOM	1/4" [6mm]	N/A	7" X 7" X 1" (P/N: 7R)	8'-6 1/2" [2604mm]

SECTION ASSEMBLY P/N: MWB63				
BILL OF MATERIALS				
ITEM	PART NO.	QTY	DESCRIPTION	
1	WA300	3	LEG MWB-D 2.5STD 20' 6 7.25	[PIPE 64mm STD]
2	WB50	3	BRACE H MMB 1.5STDx7.94'	[PIPE 38mm STD]
3	WB51	6	BRACE H MMB 1.5STDx7.94'	[PIPE 38mm STD]
4	WB60	6	BRACE D MMB 2STDx6.71'	[PIPE 51mm STD]
5	WB61	12	BRACE D MMB 2STDx7.06'	[PIPE 51mm STD]
6	WB46	9	BRACE HS1 MMB 12x.13x3.72'	[L 51x51x3]
7	210029GA	18	BOLT ASSY 5/8 X 1-1/2 HSB A325	[M16x38]
8	210030GA	144	BOLT ASSY 5/8 X 1-3/4 HSB A325	[M16x44]
9	210063GA	12	BOLT ASSY 7/8 X 3-1/2 HSB A325	[M22x89]
10	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN	[M16x178]

GENERAL NOTES:

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
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- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
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REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
5	UPDATE TO RHN STANDARDS	SEC	KTL	HR
DATE: 12/02/11				

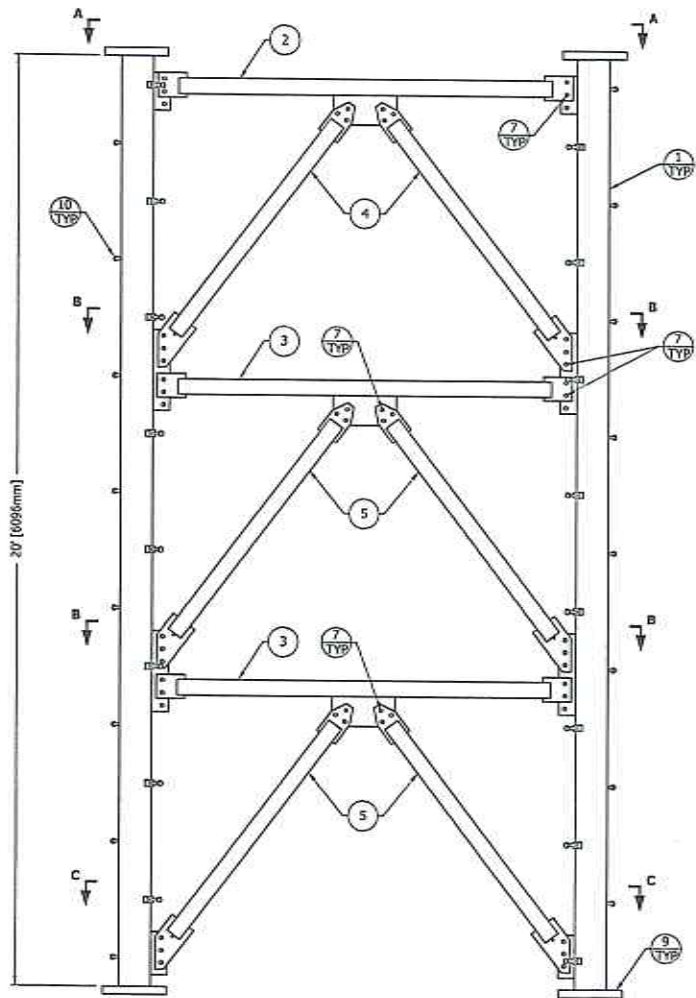


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DETAILS FOR MWB63

DWN:	CHKD:	DATE:
KTL	WDU	01/16/89
ENGR:	SHEET #:	
TS	1 OF 1	
DRAWING NO:	REV:	
B810381	5	



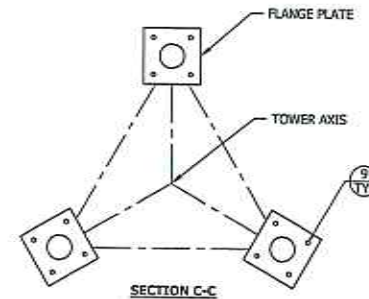
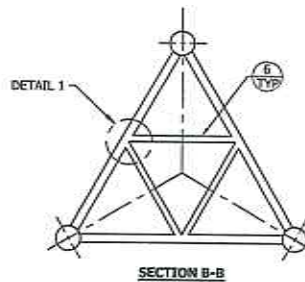
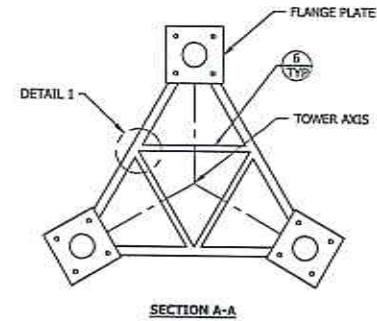
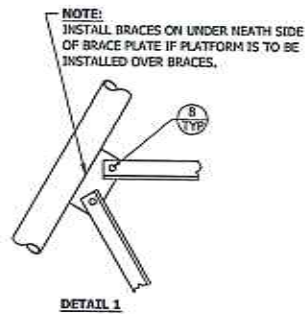
**ELEVATION VIEW**

FLANGE	OFFSET	BEVEL	FLANGE PLATE (P/N)	SPREAD
TOP	N/A	N/A	6" X 6" X 3/4" (P/N: 6B)	8'- 6" [2591MM]
BOTTOM	N/A	N/A	6" X 6" X 3/4" (P/N: 6B)	8'- 6" [2591MM]

SECTION ASSEMBLY P/N: MWB55				
BILL OF MATERIALS				
ITEM	PART NO.	QTY	DESCRIPTION	
1	WA239	3	LEG MWB-D 2.5STD 20' 6 6 B11	[PIPE 61MM STD]
2	WBS0	3	BRACE H MWB 1.5STDx7.94'	[PIPE 38MM STD]
3	WBS1	6	BRACE H MWB 1.5STDx7.94'	[PIPE 38MM STD]
4	WB60	6	BRACE D MWB 2STDx6.71'	[PIPE 51MM STD]
5	WB61	12	BRACE D MWB 2STDx7.06'	[PIPE 51MM STD]
6	WB46	9	BRACE HS1 MWB 1.2X.13X3.72'	[LS1X51X3]
7	210030GA	144	BOLT ASSY 5/8 X 1-3/4 HSB A325	[M16X14]
8	210029GA	18	BOLT ASSY 5/8 X 1-1/2 HSB A325	[M16X38]
9	210050GA	12	BOLT ASSY 3/4 X 2-3/4 HSB A325	[M18X70]
10	5/8STEP	48	BOLT ASSY STEP 5/8X7 W/DBN	[M16X178]

**GENERAL NOTES:**

- LEG PART NUMBER IS STAMPED AT THE BOTTOM OF EACH LEG AND MUST BE LOCATED AT THE BOTTOM OF THE SECTION FOR PROPER ASSEMBLY.
- STEP BOLTS ARE PROVIDED ON ALL 3 TOWER LEGS.
- FLANGE BOLTS ARE FOR FLANGE PLATES AT THE BOTTOM OF THE SECTION.
- DRAWING IS N.T.S. AND IS FOR ASSEMBLY PURPOSES ONLY.
- NOMINAL METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY AND SHALL NOT BE SUBSTITUTED FOR THE DESCRIBED SIZES UNLESS OTHERWISE APPROVED BY ROHN PRODUCTS.



REVISIONS				
REV	DESCRIPTION	OWN	CHK	APP
4	UPDATED TO NEW STANDARDS			
DATE: 02/01/13				

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**SECTION ASSEMBLY  
DETAILS FOR MWB55**

DWI: RNA    CHK'D: AJG    DATE: 09/16/1980

ENGR: T.S.    SHEET #: 1 OF 1

PRJ. ENGR:    PRJ. MANGER:

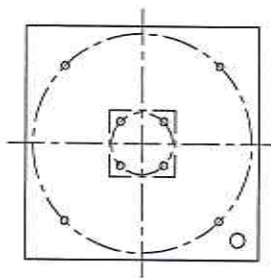
DRAWING NO: B800866    REV: 4

ASSEMBLY NUMBER	BEACON PLATE		CAP PLATE		BOLT ASSEMBLY		
	PART NO.	QTY	PART NO.	QTY	SIZE	PART NO.	QTY
APL1W2WA	APL1W2W	1	---	---	3/8 X 1-1/4	210005GA	6
APL3WNA	APL3WN	1	---	---	3/8 X 1-1/4	210005GA	6
APL4A	APL4H	1	---	---	1/2 X 1-1/2	210018GA	4
APL4HA	APL4H	1	CP4H	2	5/8 X 1-3/4	210030GA	8
APL5A	APL5	1	CP5D	2	5/8 X 2	210031GA	8
APL6A	APL6	1	CP6D	2	3/4 X 2	210047GA	8
APL7A	APL7	1	CP7D	2	7/8 X 3	210062GA	8
APL95A	APL95	1	CP95	2	1 X 3	210067GA	8
APL85A	APL8.5	1	---	---	7/8 X 3	210062GA	4
APL78A	APL7.8	1	---	---	1 X 3-1/4	210104GA	4
APL788A	APL788	1	---	---	3/4 X 3	210051GA	4
APL6A2	APL6	1	---	---	3/4 X 2-3/4	210050GA	4

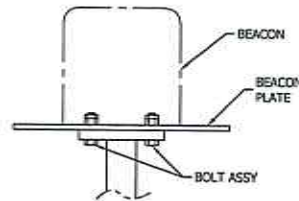
### REFERENCE DRAWINGS

\*(FAB DWG. FOR SHOP USE ONLY)

- \* 1. FOR BEACON PLATE FABRICATION SEE DRAWING # SK730369.
- \* 2. FOR CAP PLATE FABRICATION SEE DRAWING # B760639.
- 3. FOR BOLT ASSEMBLY SEE DRAWING # C770404.
- \* 4. FOR APL95 BEACON PLATE FABRICATION SEE DRAWING # B800450.
- \* 5. FOR APL1W2W FABRICATION SEE DRAWING # SK740429.
- \* 6. FOR APL3WN FABRICATION SEE DRAWING # A730902.



BEACON PLATE INSTALLATION DETAIL  
PLAN VIEW



BEACON PLATE INSTALLATION DETAIL  
ELEVATION VIEW



CAP PLATE  
INSTALLATION DETAIL

FILE NO.				
REVISIONS				
REV	DESCRIPTION	CHG	CHK	APP
14	REVISED TO LATEST FORMAT	JEC	ETL	HA
DATE: 10/19/92				

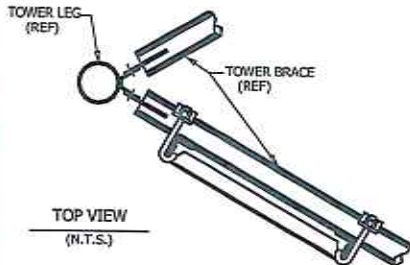
**ROHN**  
PRODUCTS, LLC

PO BOX 5993  
PEORIA, IL 61601-5999  
TOLL FREE 800-727-ROHN

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LIGHTING  
BEACON PLATE ASSEMBLY

DRAWN:	CHKD:	DATE:
EF	KTL	10/19/1992
ENGR:	TWS	SHEET #:
		1 OF 1
PROJ. ENGR:	PROJ. MANGER:	
DRAWING NO:	B760624	REV:
		14



W/G LADDER MOUNTING CLAMP ASSEMBLIES							
CLAMP ASSEMBLY P/N	TOWER BRACE SIZE (O.D.)	LADDER CLAMP			J-BOLT		
		P/N	DWG. NO.	Q/AM	P/N	DWG. NO.	Q/AM
WY3080A	1-1/2" x 2-3/8"	WY23	SK730352B	2	J44AA	B2942A	4
WY3081A	2-7/8" x 3-1/2"	WY23	SK730352B	2	J51A	B2947	4
WY3082A	4" x 1-1/2"	WY24	SK730352B	2	J51A	B2947	4
WY3083A	5-9/16"	WY25	SK730356B	2	J51A	B2947	4
WY4558A	6-5/8"	WY4558	B831316	2	J51A	B2947	4

**CLAMP ASSEMBLY ORDERING INFO**  
 ORDER 1 CLAMP ASSEMBLY (SEE BRACE SIZE) FOR EACH HORIZONTAL BRACE THAT THE W/G LADDER CROSSES.

20' (6096) W/G LADDER SECTION BILL OF MATERIAL (WL20F154KD1)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3425	20' W/G LADDER RAIL	CB40372
2	5	WY7459	LADDER RUNG (15 HOLE)	C901822
3	2	WY3498	SPLICE PLATE	B820868
4	4	250008G	3/8" WASHER	C770404
5	14	210005GA	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

10' (3048) W/G LADDER SECTION BILL OF MATERIAL (WL10F154KD1)				
ITEM	QTY	PART NO.	DESCRIPTION	DWG NO.
1	2	WY3426	10' W/G LADDER RAIL	CB40372
2	3	WY7459	LADDER RUNG (15 HOLE)	C901822
3	2	WY3498	SPLICE PLATE	B820868
4	4	250008G	3/8" WASHER	C770404
5	10	210005GA	3/8x1-1/4 BOLT ASSEMBLY	C770404
6	REF	SEE CHART	MOUNTING CLAMP ASSY	SEE CHART

FILE NO. Standard-SSV				
REVISIONS				
REV.	DESCRIPTION	DWN.	CHK.	APP.
2	UPDATED TO AUTODRAW	JSA	JDH	HA
DATE: 3-16-2004				
1	REVISION DATA FN	AS	KTL	HA
DATE: 3-18-2003				

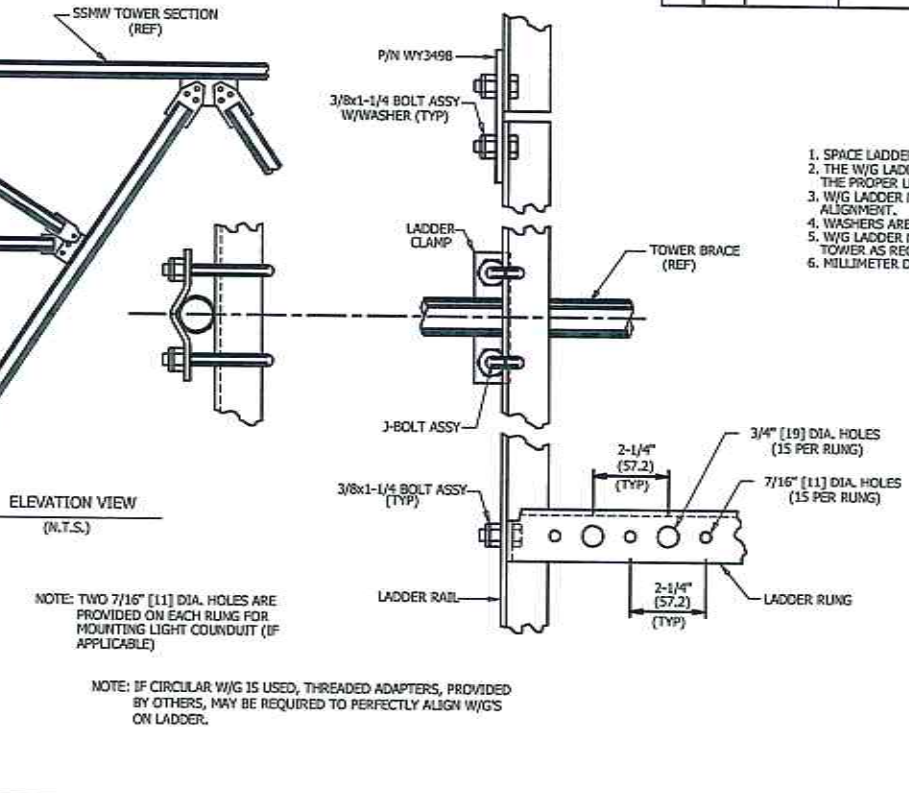
DWG REFERENCE

**RQH**  
 PRODUCTS  
 6718 WEST PLANK ROAD  
 PEORIA, IL 61604  
 TOLL FREE 800-727-RQH

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LADDER INSTALLATION  
 SSMW W/G LADDER ASSEMBLY

DWN:	WRF	CHKD:	TWS	DATE:	JUL15/2002
ENGR:	KTL				
DRAWING NO.:	C901819			REV:	3

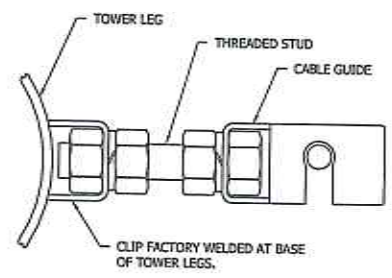
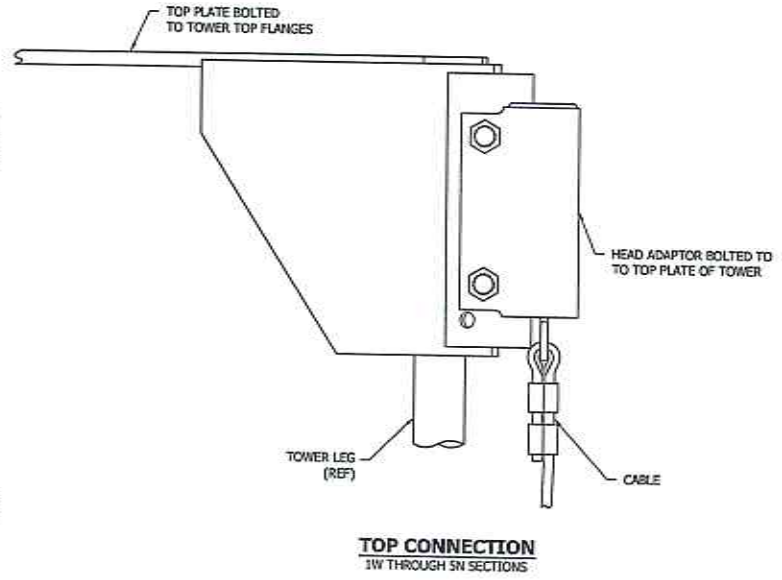
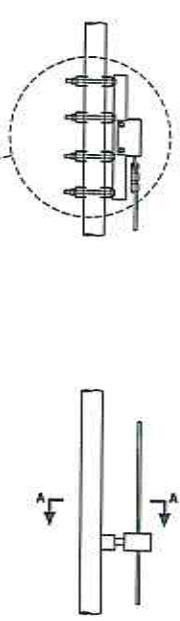
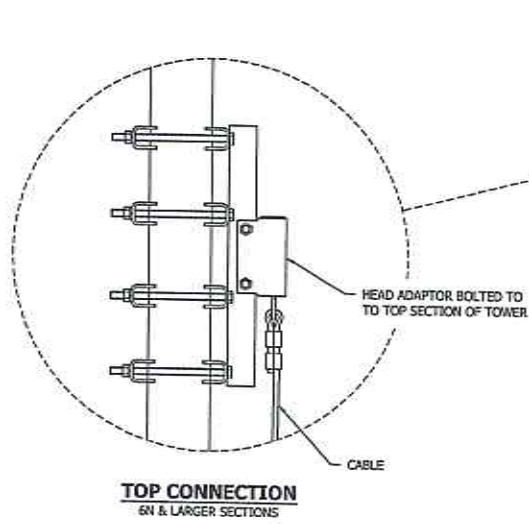


- GENERAL NOTES**
1. SPACE LADDER CLAMPS AS SHOWN.
  2. THE W/G LADDER MAY REQUIRE FIELD CUTTING TO THE PROPER LENGTH AFTER ASSEMBLY.
  3. W/G LADDER MAY BE MOVED HORIZONTALLY FOR PROPER ALIGNMENT.
  4. WASHERS ARE PROVIDED FOR ALL SLOTTED HOLES.
  5. W/G LADDER MAY BE MOUNTED INSIDE OR OUTSIDE OF TOWER AS REQUIRED.
  6. MILLIMETER DIMENSIONS ARE SHOWN IN PARENTHESES.

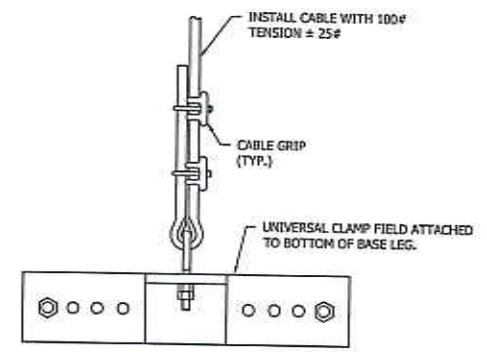
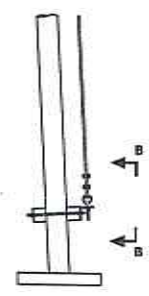
NOTE: TWO 7/16" [11] DIA. HOLES ARE PROVIDED ON EACH RUNG FOR MOUNTING LIGHT COUNDUIT (IF APPLICABLE)

NOTE: IF CIRCULAR W/G IS USED, THREADED ADAPTERS, PROVIDED BY OTHERS, MAY BE REQUIRED TO PERFECTLY ALIGN W/G'S ON LADDER.

3/16/02 9:31 AM  
 3/16/02 9:31 AM  
 3/16/02 9:31 AM



**SECTION A-A**



**VIEW B-B**  
(TOWER LEG NOT SHOWN)

FILE NO.				
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
3	CORRECTED TOP CONNECTION VIEW	DW	JDM	HA
DATE: 05/12/2010				

**ROHN**  
PRODUCTS

PO BOX 5999  
PEORIA, IL 61651-5999  
TOLL FREE 800-727-4141

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**SAFETY CLIMB**  
TUF TUG LEG MOUNTED INSTALLATION

DWG:	CHW	CHK:	JDM	DATE:	05/12/2010
ENGR:	HA	SHEET #:	1 OF 1		
PRJ. ENGR:	PRJ. MGR:				
DRAWING NO:	DWG-0120			REV:	3

## FOUNDATION AND ANCHOR TOLERANCES

### ALL FOUNDATIONS

1. CONCRETE DIMENSIONS: PLUS OR MINUS 1" (25mm)
2. DEPTH OF FOUNDATION: PLUS 3" (76mm) OR MINUS 0"
3. DRILLED FOUNDATIONS OUT OF PLUMB: 1.0°
4. REINFORCING STEEL PLACEMENT: PER A.C.I. 301
5. PROJECTION OF EMBEDMENTS: PLUS OR MINUS 1/8" (3mm)
6. VERTICAL EMBEDMENTS OUT OF PLUMB: 0.5°

### ANCHOR BOLTS

7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION: 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm)
8. ANCHOR BOLT SPACING: 1/16" (2mm)
9. ANCHOR BOLT CIRCLE ORIENTATION: 0.25°
10. ANCHOR BOLT CIRCLE DIAMETER: PLUS OR MINUS 1/16" (2mm)


### SELF-SUPPORTING TOWERS

11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES: PLUS OR MINUS 1/16" (2mm) OR 1/16" (2mm) PER 20 FT. (6m) OF FACE SPREAD
12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS: 1/2" (13mm)

### GUYED TOWERS

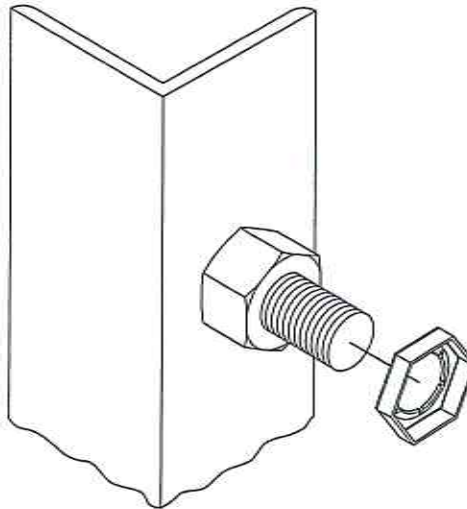
13. GUY RADIUS: PLUS OR MINUS 5% OF DISTANCE SPECIFIED
14. ANCHOR ELEVATION: PLUS OR MINUS 5% OF GUY RADIUS
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS): 1.0°
16. ANCHOR ROD SLOPE: PLUS OR MINUS 1.0°
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS: PLUS OR MINUS 1.0°
18. ANCHOR HEAD OUT OF PLUMB: 1.0°
19. GUY INITIAL TENSION: PLUS OR MINUS 10% OF TENSION SPECIFIED

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY.

FILE NO.				
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
10	PERMITS MARKING TEST	MCH	JDM	WR
DATE: 01/13/2017				
 <small>PO BOX 5599          PEORIA, IL 61601-5599          TOLL FREE 800-723-ROHN</small>				
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FOUNDATION & ANCHOR TOLERANCE				
DWN:	D-W-D:	DATE:		
CSR	KTL	09/25/1987		
SAGR:	XX	SHEET #:	1 OF 1	
PRJ. ENGR:	PRJ. MANGER:			
DRAWING NO:				REV:
A810214				10

- ASSEMBLY BOLT INSTALLATION**
1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING.
  2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES.

- PAL NUT INSTALLATION**
1. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED.



FILE NO.				
REVISIONS				
REV	DESCRIPTION	CHKD	CHK	APP
7	CHANGE MATERIAL			
DATE: 04/14/20		SEC	JOH	WA

**ROHN**  
PRODUCTS

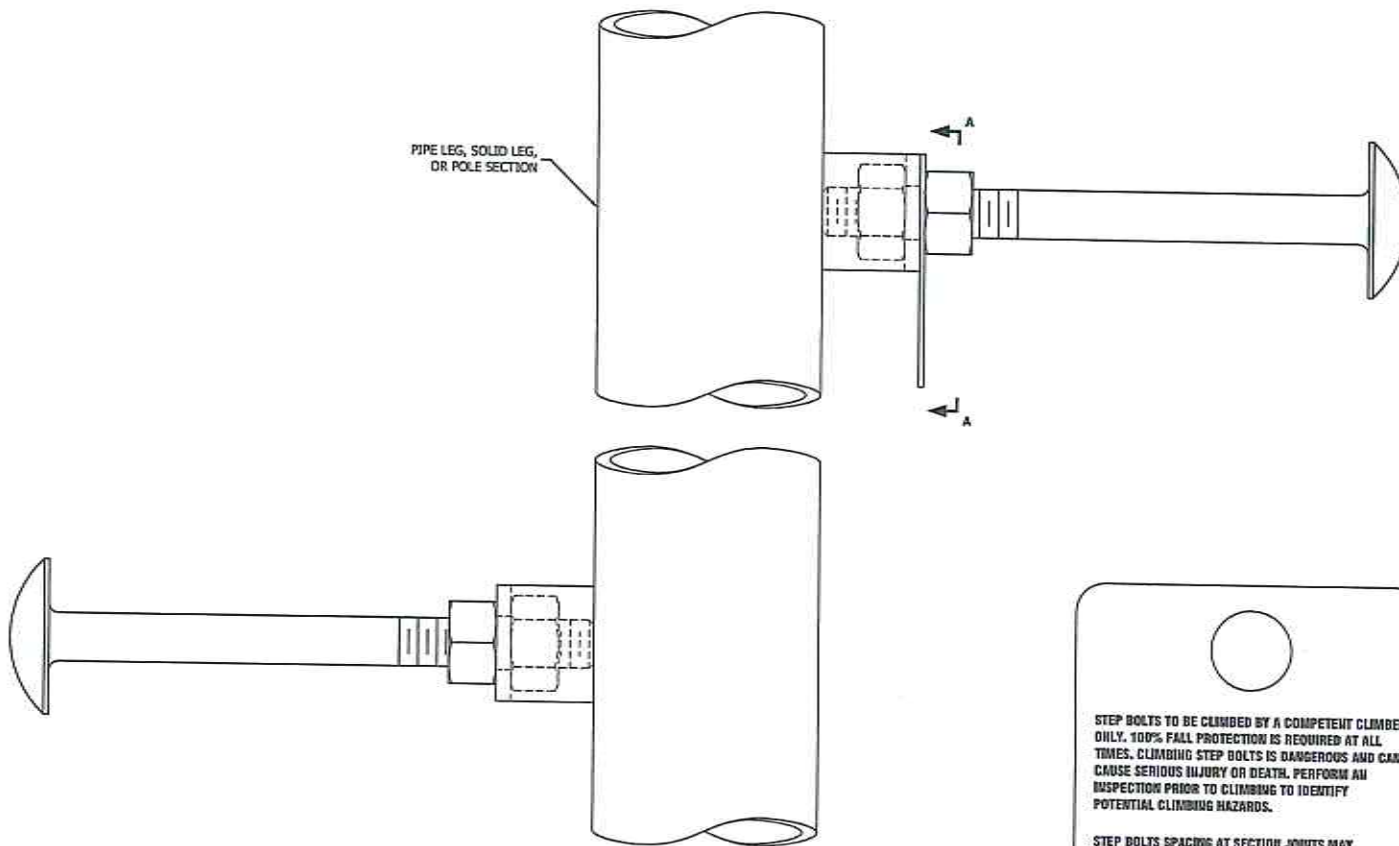
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PEORIA, IL 61604-5999  
TOLL FREE 800-727-ROHN

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**BOLT ASSEMBLY INSTALLATION**

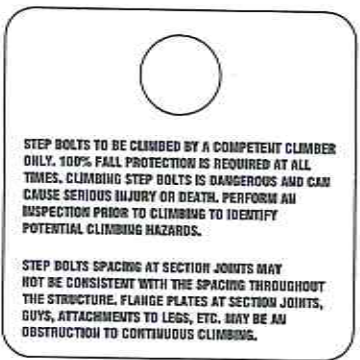
DRAWN:	CHKD:	DATE:
CH	GHS	07/05/79
ENGR:	SHEET #:	
TWS	1 OF 1	
DRAWING NO:	REV:	
A790135	7	

FILE NO.				
REVISIONS				
REV	DESCRIPTION	OWN	CHK	APP
6	UPDATED TITLE BLOCK			
DATE: 11/20/2015		JMY	ZHM	HA



PIPE LEG, SOLID LEG,  
OR POLE SECTION

A  
A



**VIEW A-A**  
**STEP BOLT CLIMBING WARNING SIGN**  
(INSTALL WARNING SIGN IN BOTTOM 5' OF STRUCTURE)

- NOTE:**
1. STEP BOLTS MUST BE TURNED UNTIL THE FRONT EDGE OF THE BOLT TOUCHES THE SIDE OF THE STRUCTURE.
  2. STEP BOLTS ARE SUPPLIED FOR CONSTRUCTION PURPOSES AND ARE NOT INTENDED FOR USE BY UNQUALIFIED PERSONNEL.
  3. DEVIATION FROM PERFECT ALIGNMENT IS ACCEPTABLE. SOME SPACING INCONSISTENCY MAY EXIST AT SPLICE LOCATIONS.
  4. IF STEP BOLTS ARE BELIEVED TO PRESENT SAFETY PROBLEMS TO PERSONNEL, DO NOT INSTALL THE STEP BOLTS.

**RQHN**  
PRODUCTS, LLC

PO BOX 5999  
PEORIA, IL 61601-9999  
TOLL FREE 800-727-RQHN

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**STEP BOLT INSTALLATION DETAIL**

DWN:	CH	CHKD:	TWS	DATE:	04/16/1974
ENGR:	CW	SHEET #:		1 OF 1	
PRJ. ENGR:	PRJ. MNGR:				
DRAWING NO:	B651264			REV:	6

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Apache County Treasurer's Office

Date/Signature: 9/26/2017 *MP McGary*

Describe in detail what you want to say to the Board and what action you want the Board to take:

Treasurer's office requests discussion and possible approval of settlement stipulation, to abate interest of 120.38 and collect the levied tax charge of \$273.58 on Parcel 10518025C / Account P9650135 for the year of 2014.

BOS Meeting Date Requested Immediately

PRE-AGENDA ITEM REVIEW

Legal Review: \_\_\_\_\_

Signature N/A

Check if item does not require review \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature N/A

Check if item does not require review \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature N/A

Check if item does not require review \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials \_\_\_\_\_

## Beth Bond

---

**From:** Joe Young  
**Sent:** Tuesday, September 26, 2017 10:21 AM  
**To:** David Romero; Beth Bond; Diana Morgan  
**Cc:** Marleita Begay; Michael Whiting  
**Subject:** RE: Agenda Item for 10/17/2017

Looks good. Thanks David.

---

**From:** David Romero [mailto:dromero@co.apache.az.us]  
**Sent:** Tuesday, September 26, 2017 10:24 AM  
**To:** Beth Bond; Diana Morgan  
**Cc:** Marleita Begay; Joe Young; Michael B. Whiting  
**Subject:** Agenda Item for 10/17/2017

Beth and Diana,  
Please see attached.

*Thank you.*



*David Romero*

*Chief Deputy Treasurer*

*Apache County*

P : (928)337.7629 Fax: (928)337.4686

C : (480)734.5162

[dromero@co.apache.az.us](mailto:dromero@co.apache.az.us)

*"Investing and Protecting Our Financial Future"*

VENDOR NAME: Apache County  
CLAIM #: None Filed

My name is Mary Petz and I work for the Liquidating Trustee for the ALCO Liquidating Trust, the successor in interest to ALCO Holdings, LLC and ALCO Stores, Inc. (collectively, as debtors-in-possession, the "Debtors"). As you are aware, on October 12, 2014, each of the Debtors filed a voluntary petition under Chapter 11 of the U.S. Bankruptcy Code; case 14-34941. On July 22, 2015, a plan of liquidation became effective and all of the remaining assets of the Debtors were transferred into the ALCO Liquidating Trust for final liquidation, at which time responsibilities transferred to the Liquidating Trustee from Deloitte CRG.

On 8/2/17 and on 9/19/17, I spoke to you, David Romero, the Apache County Deputy Treasurer in regard to outstanding personal property tax for former ALCO Store 251; Parcel Number 10518025C. There was no claim filed for this personal property tax.

I've spoken with the Liquidating Trustee, and this document (and your acceptance via reply and signed copy return) will be sufficient to document the following:

My signature below acknowledges that I have the authority to accept on behalf of Apache County a full and final settlement payment of \$273.58 for the 2014 Personal Property Tax for Parcel Number 10518025C; former ALCO Store 251. This payment will be processed with a Priority status.

In addition to the personal property tax amount noted above, my signature below also acknowledges that the personal property tax account for former ALCO Store 251; Parcel Number 10518025C has been shut down effective January 1, 2015 or prior. No further personal property payments will be due for this account.

Prior to any payment, we do require a completed W9 on file.

Please sign and return a copy of this stipulation and the completed W9 to me via email at [mpetz@alcostores.com](mailto:mpetz@alcostores.com)

Please let me know if you have any questions.

Thank you,  
Mary

\_\_\_\_\_  
Mary S. Petz  
[mpetz@alcostores.com](mailto:mpetz@alcostores.com)  
ALCO Liquidating Trust  
785-263-1288

Accepted and Agreed:

\_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

# Statement of Taxes Due

## APACHE COUNTY TREASURER

Account Number P9650135  
Assessed To

Parcel 10518025C  
ALCO STORES #251  
751 FREEPORT PARKWAY  
COPPELL, TX 75019

Legal Description

Situs Address  
207 S MOUNTAIN AVE  
SPRINGERVILLE

Year	Tax	Interest	Fees	Payments	Balance
<b>Tax Charge</b>					
2014	\$273.58	\$120.38	\$0.00	\$0.00	\$393.96
2013	\$181.60	\$0.00	\$0.00	(\$181.60)	\$0.00
2012	\$181.22	\$0.00	\$0.00	(\$181.22)	\$0.00
2011	\$200.78	\$0.00	\$0.00	(\$200.78)	\$0.00
2010	\$287.50	\$0.00	\$0.00	(\$287.50)	\$0.00
2009	\$298.56	\$0.00	\$0.00	(\$298.56)	\$0.00
2008	\$253.87	\$0.00	\$0.00	(\$253.87)	\$0.00
<b>Total Tax Charge</b>					<b>\$393.96</b>
<b>Grand Total Due as of 10/01/2017</b>					<b>\$393.96</b>

Make payment to:

Apache County Treasurer 75 West Cleveland PO Box 699 St. Johns, AZ 85936 928-337-7629

To pay online go to [www.co.apache.az.us/treasurer](http://www.co.apache.az.us/treasurer)

To pay by phone with a live operator call 1-888-891-6064

Interest the 1st of every month

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Community Development

Date/Signature: 10/5/17 DR

Describe in detail what you want to say to the Board and what action you want the Board to take:

Discussion and possible approval to reduce the \$500 Conditional Use Permit application fee for Holly Williams to install a 60' ham radio tower on her property for personal use.

BOS Meeting Date Requested 10/17/17

PRE-AGENDA ITEM REVIEW

Legal Review:

Signature [Handwritten Signature]

Finance Review:

Signature \_\_\_\_\_

Human Resources Review:

Signature \_\_\_\_\_

Other Review:

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials RP





Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Emergency Management

Date/Signature: *[Signature]* 9-27-17

Describe in detail what you want to say to the Board and what action you want the Board to take:

Emergency Management request approval of the updated Hazardous Mitigation Plan as submitted.

BOS Meeting Date Requested 10/17/2017

---

PRE-AGENDA ITEM REVIEW

Legal Review: See email

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials ff

## Beth Bond

---

**From:** Beverly Parks  
**Sent:** Wednesday, September 27, 2017 1:34 PM  
**To:** Dr. Joe Shirley; Patrick Sandoval; Alton Shepherd; Gabriel Freeland; Doyel Shamley; Travis Simshauser; Delwin P. Wengert; Beth Bond  
**Cc:** Joe Young; Joseph Dedman Jr.; Brannon Eagar  
**Subject:** Updated Apache Co 2017 Hazard Mitigation Plan.pdf  
**Attachments:** Apache Co 2017 Mit Plan.pdf

Good afternoon everyone,

Here is another plan for your review. We would like to take this before the Board on October 17th, 2017 and wanted to send it out for you to have ample time to review it first. If you have any questions, please feel free to contact me or Chief Deputy Brannon Eagar. The Updated Hazard Mitigation Plan has been posted on the county website.

I would like to mention, the plan was submitted to FEMA for their review and they have approved it.

Respectfully,

Beverly Parks  
Apache County Emergency Management  
928-337-7630  
928-551-2876

Apache Co 2017 Mit Plan.pdf

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

Emergency Management

Date/Signature: Bonnie Egan 10-2-17

Describe in detail what you want to say to the Board and what action you want the Board to take:

Emergency Management requests authorization to accept an Emergency Management Performance Grant Award (number EMF-2017-EP-00008-S01) of \$202,986.00, from the Arizona Department of Emergency & Military Affairs, Division of Emergency Management. This grant has a cost share of 50% Federal funds and 50% local funds on all eligible expenditures. The grant performance period is July 1, 2017 – June 30, 2018.

BOS Meeting Date Requested October 17, 2017

PRE-AGENDA ITEM REVIEW

Legal Review: See Email

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Check if item does not require review \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials RE

## Beth Bond

---

**From:** Joe Young  
**Sent:** Thursday, October 5, 2017 11:45 AM  
**To:** Beverly Parks; Brannon Eagar  
**Cc:** Ryan Patterson; Steve Anderson; Beth Bond  
**Subject:** RE: The EMPG 2017 Subrecipient Agreement

I have reviewed the agreement. It certainly subjects us to a lot of potential federal oversight, but the document is legal and may be submitted to the Board for a vote.

---

**From:** Beverly Parks [mailto:[bparks@co.apache.az.us](mailto:bparks@co.apache.az.us)]  
**Sent:** Monday, October 02, 2017 8:53 AM  
**To:** Joe Young; Brannon Eagar  
**Cc:** Ryan Patterson; Steve Anderson; Beth Bond  
**Subject:** The EMPG 2017 Subrecipient Agreement

Sorry, this should have been emailed with the grant award.



Douglas A. Ducey  
GOVERNOR

STATE OF ARIZONA  
DEPARTMENT OF EMERGENCY AND MILITARY AFFAIRS

5636 East McDowell Road  
Phoenix, Arizona 85008-3495  
(602) 267-2700 DSN: 853-2700



Major General Michael T. McGuire  
THE ADJUTANT GENERAL

September 18, 2017

Mr. Brannon Eagar, Director  
Apache County Emergency Management  
P. O. Box 518  
St. Johns, AZ 85936

RE: FFY 2017 Emergency Management Performance Grant (EMPG)  
Final Award Letter  
Grant # EMF-2017-EP-00008-S01  
CFDA # 97.042  
Award Amount: **\$202,986.00**

Dear Mr. Eagar:

The Arizona Department of Emergency & Military Affairs, Division of Emergency Management is pleased to provide you with this Final Grant Award letter for the above referenced grant in the amount of **\$202,986.00**. Funds may be obligated and expended within the period of performance and in accordance with the EMPG grant guidelines, including a cost share of 50% Federal funds/50% Local funds on all eligible expenditures. The period of performance will be from **July 1, 2017 – June 30, 2018**.

To complete the award process, please sign and return two copies of the enclosed Sub-Recipient Agreement to the address listed below. DEMA will then return a fully-executed copy for you to retain with your files. We must have a fully-executed copy on file in our office prior to reimbursing any funds expended under this grant award.

Additionally, all expenditures made with grant funding must adhere to all federal regulations and requirements as outlined in the EMPG Notice of Funding Opportunity, as well as the DEMA EMPG FAQ document enclosed with this letter. As outlined in the guidance, each grant award will be monitored for both programmatic and fiscal compliance once per grant cycle. Please read the guidance document carefully and thoroughly to ensure your grant funds are expended in an authorized manner.

- Recipients that expend \$750,000 or more from all federal funding sources during the fiscal year are required to submit an organization-wide financial and compliance audit report per Subpart F of 2 C.F.R. Part 200. Failure to comply with the audit requirements will suspend the release of federal funds until complete.

- Matching or Cost Sharing (Definition): This means the value of the third party in-kind contributions and the portion of the cost of a Federally assisted project or program not borne by the Federal Government. All cost-sharing or matching funds claimed against a FEMA grant by State, local or Tribal governments must meet the requirements of the program guidance and/or program regulations, 2 CFR Part 225, Cost Principles for State, Local and Indian Tribal Governments (OMB CIRCULAR A-87), 2 CFR 200.306 and <https://www.gpo.gov/fdsys/pkg/CFR-2012-title2-vol1/pdf/CFR-2012-title2-vol1-part225.pdf>.
  - Each Sub-recipient will receive a worksheet to outline all eligible hard-match and soft-match activities and submit to DEMA for review and pre-approval. The activities must follow the EMPG program intent. You will be notified of any issues or concerns.

As a reminder, the quarterly Narrative Reports are due to the EMPG Program Coordinator within 15 days of the end of each calendar quarter and the Expenditure Reports along with all financial supporting documents are due to EMPG Finance Coordinator within 30 days of the end of each calendar quarter to receive reimbursement. Reports must have original signatures and should be mailed to the following address:

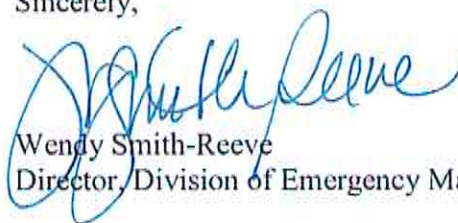
Arizona Department of Emergency & Military Affairs, Division of Emergency Management

Grants Administration Section  
Diane Fernandez  
EMPG Program Coordinator  
5636 E McDowell Rd., Bldg 5101  
Phoenix, AZ 85008

DEMA Resource Accounting/Finance  
Wendy Liebman  
EMPG Finance Coordinator  
5645 E McDowell Rd, Bldg 5800  
Phoenix, AZ 85008

Should you have any questions, please email Diane Fernandez at [Diane.fernandez@azdema.gov](mailto:Diane.fernandez@azdema.gov) or call 602-464-6268. We look forward to working with you and your staff in the coming year.

Sincerely,



Wendy Smith-Reeve  
Director, Division of Emergency Management

Enclosure: Copy of 2017 EMPG Approved Application  
2017 EMPG Sub-Recipient Agreement  
Agreement Exhibit  
Match Guidance Overview  
FAQ Sheet  
Program Performance Activity Report  
Financial Reimbursement Form

SUBRECIPIENT AGREEMENT BETWEEN

Apache County Emergency Management  
AND

The Arizona Department of Emergency and Military Affairs  
FOR

**Emergency Management Performance Grant - EMF-2017-EP-00008-S01**

WHEREAS, A.R.S. § 41-4254 (6) charges the Arizona Department of Emergency and Military Affairs (DEMA) with the responsibility of administering funds.

THEREFORE, it is agreed that DEMA shall provide funding to **Apache County Emergency Management** ("Subrecipient") under CFDA # 97.042 for services under the terms of this Grant Agreement.

I. **PURPOSE OF AGREEMENT**

The purpose of this Agreement is to specify the rights and responsibilities of DEMA in administering the distribution of Emergency Management Performance Grant (EMPG) funds to Subrecipient, and to specify the rights and responsibilities of Subrecipient as the recipient of these funds.

II. **TERM OF AGREEMENT, TERMINATION AND AMENDMENTS**

This Agreement shall become effective on **July 1, 2017** and shall terminate on **June 30, 2018**. The obligations of Subrecipient as described herein will survive termination of this agreement.

III. **DESCRIPTION OF SERVICES, SUPPLIES AND EQUIPMENT**

Subrecipient shall provide the services for DEMA, and shall purchase the supplies and equipment for Subrecipient's use in conjunction with this Agreement as set forth in writing Subrecipient's grant application titled "EMPG FY17", a copy of which is attached as Exhibit III

- a) The FY 2017 EMPG covers eligible costs from **July 1, 2017 - June 30, 2018**. The funds awarded in the grant agreement shall only be used to cover allowable costs that are incurred during the agreement period. Grant agreement funds shall not be used for other purposes. Allowable costs are defined in the FY 2017 EMPG Notice of Funding Opportunity (NOFO), a copy of which is attached as Exhibit III(a).
- b) All EMPG funded personnel must complete training requirements for the National Incident Management System (NIMS) as stated in the EMPG NOFO, and Subrecipient must provide DEMA with written proof of completion for each individual as soon as that individual's training is completed. All EMPG funded personnel must also participate in no less than three exercises run by either Subrecipient or DEMA in a 12 month period.
- c) Finance & Administration- DEMA will serve as the primary fiscal agent for all FFY 2017 EMPG funds.

- i) The FY 2017 EMPG program has a 50% cost match (cash or in-kind) requirement, as authorized by the *Robert T. Stafford Disaster Relief and Emergency Assistance Act*, as amended, (Pub. L. No. 93-288) (42 U.S.C. §§ 5121 et seq.), specifically, *Title VI, sections 611(U)* and 613. Federal funds cannot exceed 50% of eligible costs. Unless otherwise authorized by law, federal funds cannot be matched with other federal funds. All funds received by Subrecipient through DEMA under this Agreement are agreed to be federal matching funds; Subrecipient shall be solely responsible for providing the other 50% (cash or in-kind) in order to obtain these federal matching funds.
- ii) The Federal Emergency Management Agency (FEMA) administers cost matching requirements in accordance with 2 CFR § 200.306. To meet matching requirements, Subrecipient contributions must be reasonable, allowable, allocable, and necessary under the grant program and must comply with all federal requirements and regulations.

**IV. MANNER OF FINANCING**

DEMA shall:

a) Provide up to **\$202,986.00** to the Subrecipient for 50% of the costs associated with the services, supplies and equipment identified in Exhibit III. Subrecipient will provide the services required by part III of this Agreement and acquire the supplies and equipment identified therein for its own use, unless a change is agreed to as provided in part XII of this Agreement.

b) Payment made by DEMA to Subrecipient shall be on a reimbursement basis only and is conditioned upon receipt of proof of payment and applicable, accurate and complete reimbursement documents, as deemed necessary by DEMA, to be submitted by Subrecipient. A listing of acceptable documentation is attached as Exhibit IV(b). Payments by DEMA to Subrecipient will be contingent upon DEMA receiving complete documentation for each expenditure from Subrecipient.

Payment maybe contingent upon certification of the Subrecipient's financial management system in accordance with acceptable standards in OMB Circular A-110.

**V. FISCAL RESPONSIBILITY**

It is understood and agreed that all of the funds provided by DEMA to Subrecipient under this Agreement shall be used by Subrecipient only for items and services to be acquired by Subrecipient under this Agreement. For any funds received under this Agreement for which expenditure is disallowed by an audit exemption or otherwise by DEMA, the State, or Federal government, Subrecipient shall reimburse said funds directly to DEMA immediately.

**VI. FINANCIAL AUDIT/PROGRAMATIC MONITORING**

Subrecipient agrees to terms specified in A.R.S. § 35-214 and § 35-215.

- a) If Subrecipient expends \$750,000 or more from all federal funding sources during the fiscal year, Subrecipient shall submit an organization-wide financial and compliance audit report per Subpart F of 2 C.F.R. Part 200. Failure to comply with any requirements imposed as a result of an audit will suspend the release of federal funds by DEMA to Subrecipient until Subrecipient is in compliance with all such requirements.
- b) Subrecipient will be monitored periodically by DEMA, both programmatically and financially, to ensure that the project goals, objectives, performance requirements, timelines, milestone completion, budgets, and other related program criteria are being met. Monitoring will be accomplished through a combination of office-based reviews and onsite monitoring visits. Monitoring can involve aspects of the work involved under this Agreement including but not limited to the review and analysis of financial, programmatic, equipment, performance and administrative issues relative to each program, and may identify areas where technical assistance and other support may be needed. Subrecipient shall participate in and cooperate with all such monitoring by DEMA, and shall provide access to all personnel, documents, and other records as may be requested from time to time by DEMA. Subrecipient also shall comply with all requests of DEMA that DEMA deems necessary to assure the parties' compliance with their obligations under this Agreement.

**VII. APPLICABLE FEDERAL REGULATIONS**

Subrecipient must comply with the EMPG FY 2017 NOFO, Office of Management and Budget (OMB) Circular's Code of Federal Regulations (CFR), and other Federal guidance including but not limited to:

- a) 2 CFR § 200.0-200.345 Uniform Administrative Requirements Subpart A-D, for Grants and Cooperative Agreements to State and Local Governments (formerly OMB Circular A-102)
- b) 2 CFR § 200.402-200.475 Subpart E – Cost Principles, Local & Indian Tribal Governments
- c) 2 CFR Part 200 Subpart E- §200.400-200.417 State and Local Governments; 2 CFR Part 220, Educational Institutions; 2 CFR Part 230, Non-Profit Organizations; Federal Acquisition Regulation Subpart 31.2, Contracts with Commercial Organizations.
- d) U.S. Department of Homeland Security Authorized Equipment List (AEL), at <https://www.fema.gov/authorized-equipment-list>
- e) 2 CFR Part 215, Institutions of Higher Education, Hospitals and Other Non-Profit Organizations.
- f) 28 CFR applicable to grants and cooperative agreements, including Part II, Applicability of Office of Management and Budget Circulars; Part 18, Administrative Review Procedure; Part 20, Criminal Justice Information Systems; Part 22, Confidentiality of Identifiable Research and Statistical Information; Part 23, Criminal Intelligence System Operating Policies; Part 42, Non-discrimination Equal Employment Opportunities Policies and Procedures; Part 61, Procedures for

Implementing the National Environmental Policy Act; Part 63, Floodplain Management and Wetland Protection Procedures; and Part 66, Uniform Administrative Requirements for Grants and Co-operative Agreements to State and Local Government.

- g) OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, at [http://www.whitehouse.gov/omb/circulars/a133\\_compliance\\_supplement\\_2012](http://www.whitehouse.gov/omb/circulars/a133_compliance_supplement_2012).

Included within the above mentioned guidance documents are provisions for the following:

**National Incident Management System (NIMS)**

Subrecipient agrees to remain in compliance with National Incident Management System (NIMS) Implementation initiatives as outlined in the NOFO.

**Environmental Planning and Historic Preservation**

Subrecipient shall comply with all applicable Federal, State, and Local environmental and historic preservation (EHP) requirements and shall provide any information requested by FEMA to ensure compliance with applicable laws including: National Environmental Policy Act, National Historic Preservation Act, Endangered Species Act, and Executive Orders on Floodplains (11988), Wetlands (11990) and Environmental Justice (12898). Subrecipient shall not undertake any project having the potential to impact EHP resources without the prior approval of DEMA/FEMA, including but not limited to communications towers, physical security enhancements, new construction, and modifications to buildings that are 50 years old or greater. Subrecipient must comply with all conditions placed on the project as the result of the EHP review. Any change to the approved project scope of work will require re-evaluation for compliance with these EHP requirements. If ground disturbing activities occur during project implementation, Subrecipient must ensure monitoring of ground disturbance and if any potential archeological resources are discovered, Subrecipient will immediately cease construction in that area and notify FEMA and the appropriate State Historic Preservation Office. Procurement and construction activities shall not be initiated prior to the full environmental and historic preservation review.

**Consultants/Trainers/Training Providers**

Billings for consultants/trainers/training providers must include at a minimum: a description of services; dates of services; number of hours for services performed; rate charged for services; and, the total cost of services performed. Consultant/trainer/training provider costs must be within the prevailing rates; must be obtained under consistent treatment with the procurement policies of Subrecipient and 2 CFR § 200.231, 200.326 & 200.323.

**Contractors/Subcontractors**

Subrecipient may enter into written subcontract(s) for performance of certain of its functions under this Agreement in accordance with terms established in the OMB Circulars, Code of Federal Regulations, DHS Guidance/NOFO and DHS Program Guidance. Subrecipient agrees and understands that no subcontract that Subrecipient

enters into with respect to performance under this Agreement shall in any way relieve Subrecipient of any responsibilities for performance of its duties. Subrecipient shall give DEMA immediate notice in writing by certified mail of any action or suit filed and prompt notice of any claim made against Subrecipient by any subcontractor or vendor which in the opinion of Subrecipient may result in litigation related in any way to the Agreement with DEMA.

#### **Personnel and Travel Costs**

All grant funds expended for personnel, travel, lodging, and per diem must be consistent with the Subrecipient's policies and procedures and the State of Arizona Accounting Manual (SAAM); must be applied uniformly to both federally financed and other activities of the agency; and will be reimbursed at the most restrictive allowability and rate. At no time will Subrecipient's reimbursement(s) exceed the State rate established by the Arizona Department of Administration, General Accounting Office Travel Policies: <https://gao.az.gov/publications/saam>

#### **Procurement**

Subrecipient shall comply with all of its own procurement rules/policies, all Federal procurement rules/policies (including but not limited to those outlined in this section VII of this Agreement), and all Arizona State procurement code provisions and rules. The Federal intent is that all Funds are awarded competitively. Subrecipient shall not enter into a Noncompetitive (Sole or Single Source) procurement agreement, unless prior written approval is granted by DEMA.

#### **Training and Exercise**

Subrecipient agrees that any grant funds used for training and exercise must be in compliance with the NOFO. All training must be approved through DEMA/Arizona Department of Homeland Security training request process prior to execution of training contract(s). All exercises must utilize the FEMA Homeland Security Exercise and Evaluation Program (HSEEP) Toolkit for exercise design, development and scheduling. Subrecipient agrees to:

- a) Submit the HSEEP Toolkit Exercise Summary to DEMA with all Exercise Reimbursement Requests within 90 days of completion of the exercise in question.
- b) Post all exercises, documentation and After Action Reports/Improvement Plans via the HSEEP Toolkit within 90 days of completion of the exercise in question
- c) Within 60 days of completion of an exercise, or as prescribed by the most recent HSEEP guidance, the Subrecipient is required to upload the AAR/IP into the HSEEP Toolkit and email the AAR/IP to the local County Emergency Manager, the FEMA Region IX Exercise POC, [HSEEP@dhs.gov](mailto:HSEEP@dhs.gov), and the DEMA Exercise Officer.

#### **Nonsupplanting Agreement**

Subrecipient shall not use funds to supplant State or Local funds or other resources that would otherwise have been made available for this program/project. Further, if a position created by a grant is filled from within, the vacancy created by this action must be filled within thirty (30) days. If the vacancy is not filled within thirty (30) days, Subrecipient must stop charging the grant for the new position. Upon filling the vacancy, Subrecipient may resume charging for the grant position.

## E-Verify

Compliance requirements for A.R.S. § 41-4401—immigration laws and E-Verify requirement.

- a) Subrecipient warrants its compliance with all Federal immigration laws and regulations relating to its employees and to employees of any contractor or subcontractor retained through Subrecipient to provide goods or services related to this Agreement, including but not limited to A.R.S. § 23-214, Subsection A (That subsection reads: "After December 31, 2007, every employer, after hiring an employee, shall verify the employment eligibility of the employee through the E-Verify program").
- b) A breach of a warranty by Subrecipient regarding compliance with immigration laws and regulations shall be deemed a material breach of this Agreement and Subrecipient may be subject to penalties to be determined at DEMA's discretion, up to and including termination of this Agreement.
- c) DEMA retains the legal right to inspect the papers of any Subrecipient employee who works on the Agreement, and those of any employee of any contractor or subcontractor retained through Subrecipient to provide goods or services related to this Agreement, to ensure that Subrecipient is complying with the warranty under paragraph (a) above.

## Property Control

Effective control and accountability must be maintained by Subrecipient for all equipment and supplies acquired by Subrecipient under this Agreement. Subrecipient must adequately safeguard all such property and must assure that it is used for authorized purposes as described in the NOFO, grant application, and Code of Federal Regulations (CFRs). Subrecipient shall exercise caution in the use, maintenance, protection and preservation of such property.

- a) Equipment acquired by Subrecipient under this Agreement shall be used by Subrecipient in the program or project for which it was acquired as long as needed, whether or not the program or project continues to be supported by federal grant funds. Theft, destruction, or loss of property shall be reported to DEMA immediately.
- b) Nonexpendable Property is property which has a continuing use, is not consumed in use, is of a durable nature with an expected service life of one or more years, has an acquisition cost of \$300 (Three Hundred Dollars) or more, and does not become a fixture or lose its identity as a component of other equipment or plant.
- c) A Capital Asset is any personal or real property, or fixture that has an acquisition cost of \$5,000 (Five Thousand Dollars) or more per unit and a useful life of more than one year. If the Capital Asset current value is equal to or greater than \$5,000 at the end of life or required project activities is discontinued, Subrecipient must request and receive authorization from DEMA prior to disposition.
- d) A Property Control Form (if applicable) shall be maintained for the entire scope of the program or project for which property was acquired through the end of its useful life and/or disposition. All Nonexpendable Property and Capital Assets must be

included on the Property Control Form. Subrecipient shall provide DEMA a copy of the Property Control Form with the final reimbursement request form, or no more than **ninety (90) calendar days** after the end of the Agreement. The Property Control Form shall be updated and a copy provided to DEMA no more than forty-five (45) calendar days after equipment disposition, if applicable.

- e) Upon submission of the final quarterly programmatic report Subrecipient must file with DEMA a copy of the Property Control Form. Subrecipient agrees to be subject to equipment monitoring and auditing by state or federal authorized representatives to verify information.
- f) A physical inventory of the Nonexpendable Property and Capital Assets must be taken and the results reconciled with the Property Control Form at least once every two years. (1) A control system must be developed to ensure adequate safeguards to prevent loss, damage, or theft of the property. Any loss, damage, or theft shall be investigated. (2) Adequate maintenance procedures must be developed to keep the property in good condition.

**VIII. DEBARMENT CERTIFICATION**

Subrecipient agrees to comply with the Federal Debarment and Suspension regulations as outlined in the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transactions" Attached as Exhibit VIII.

**IX. FUNDS MANAGEMENT**

Subrecipient must maintain funds received under this Agreement in separate ledger accounts and cannot mix these funds with funds from other sources. Subrecipient must manage funds according to applicable Federal regulations for administrative requirements, costs principles, and audits. Subrecipient must maintain adequate business systems to comply with Federal requirements. The business systems that must be maintained are:

- Financial Management
- Procurement
- Personnel
- Property
- Travel

A system is adequate if it is 1) written; 2) consistently followed – it applies in all similar circumstances; and 3) consistently applied – it applies to all sources of funds.

**X. REPORTING REQUIREMENTS**

Regular reports by Subrecipient shall include:

- a) Programmatic Reports- Subrecipient shall provide quarterly programmatic reports to DEMA within fifteen (15) working days of the last day of the quarter in which services are provided. Subrecipient shall use the form provided by DEMA to submit quarterly programmatic reports. The report shall contain such information as deemed necessary by DEMA. Subrecipient shall use the Quarterly Programmatic Report Format template, a copy of which is attached as Exhibit X(a). If a project

has been fully completed and implemented, and there will be no further updates, then the quarterly programmatic report for the quarter in which the project was completed will be sufficient as the final report. The report should be marked as final and should be inclusive of all necessary and pertinent information regarding the project as deemed necessary by DEMA. Quarterly programmatic reports shall be submitted to DEMA until the entire scope of the Grant is completed. Upon request of DEMA, Subrecipient must provide to DEMA information necessary to meet any state or federal reporting requirements.

b) Quarterly Programmatic reports are due:

**October 15** .....(period July 1 – September 30)  
**January 15** .....(period October 1– December 31)  
**April 15** .....(period January 1 – March 31)  
**July 15** .....(period April 1 – June 30) FINAL

Quarterly Financial Expenditure reports are due:

**October 30** .....(period July 1 – September 30)  
**January 30** .....(period October 1– December 31)  
**April 30** .....(period January 1 – March 31)  
**Aug 15** .....(period April 1 – June 30) FINAL

d) Financial Reimbursements

Subrecipient shall provide DEMA with quarterly requests for reimbursement. Reimbursements shall be submitted with the Reimbursement Form provided by DEMA, a copy of which is attached as Exhibit X(d).

Subrecipient shall submit to DEMA a final reimbursement for expenses received and invoiced prior to the end of the termination of this Agreement no more than **ninety (90) calendar days** after the end of the Agreement. Requests for reimbursement received by DEMA later than the ninety (90) days after the Agreement termination will not be paid. The final reimbursement request as submitted shall be marked FINAL.

DEMA requires that all requests for reimbursement are submitted via U.S. mail (United States Postal Service), FedEx, UPS, or another established private delivery service, or in person. Reimbursements submitted via fax or by any electronic means will not be accepted.

DEMA reserves the right to request and/or require any supporting documentation and/or information DEMA believes necessary in order to process reimbursements. Subrecipient shall promptly provide DEMA with all such documents

All reports shall be submitted by Subrecipient to the DEMA contact person as described in Part XXXVII, NOTICES, of this Agreement.

XI. **ASSIGNMENT AND DELEGATION**

Subrecipient may not assign any rights hereunder without the express, prior written consent of both parties.

**XII. AMENDMENTS**

Any change in this Agreement including but not limited to the Description of Services and budget described herein, whether by modification or supplementation, must be accomplished by a formal Agreement amendment signed and approved by and between the duly authorized representative of Subrecipient and DEMA.

Any such amendment shall specify: 1) an effective date; 2) any increases or decreases in the amount of Subrecipient's compensation if applicable; 3) be titled as an "Amendment," and 4) be signed by the parties identified in the preceding sentence. Subrecipient expressly and explicitly understands and agrees that no other method of communication, including any other document, correspondence, act, or oral communication by or from any person, shall be used or construed as an amendment or modification or supplementation to this Agreement.

**XIII. AGREEMENT RENEWAL**

This Agreement shall not bind nor purport to bind DEMA for any contractual commitment in excess of the original Agreement period.

**XIV. RIGHT TO ASSURANCE**

If DEMA in good faith has reason to believe that Subrecipient does not intend to, or is unable to perform or continue performing under this Agreement, DEMA may demand in writing that Subrecipient give a written assurance of intent to perform. If Subrecipient fails to provide written assurance within the number of days specified in the demand, DEMA at its option may terminate this Agreement.

**XV. CANCELLATION FOR CONFLICT OF INTEREST**

DEMA may, by written notice to Subrecipient, immediately cancel this Agreement without penalty or further obligation pursuant to A.R.S. § 38-511 if any person significantly involved in initiating, negotiating, securing, drafting or creating the Agreement on behalf of the State or its subdivisions (unit of Local Government) is an employee or agent of any other party in any capacity or a consultant to any other party to the Agreement with respect to the subject matter of the Agreement. Such cancellation shall be effective when the parties to the Agreement receive written notice from DEMA, unless the notice specifies a later time.

**XVI. THIRD PARTY ANTITRUST VIOLATIONS**

Subrecipient hereby assigns to the State of Arizona any claim for overcharges resulting from antitrust violations to the extent that such violations concern materials or services supplied by third parties to Subrecipient toward fulfillment of this Agreement.

**XVII. AVAILABILITY OF FUNDS**

Every payment obligation of DEMA under this Agreement is conditioned upon the availability of funds appropriated or allocated for the payment of such obligations. If the funds are not allocated and available for the continuance of this Agreement, DEMA may terminate this Agreement at the end of the period for which funds are available. No liability shall accrue to DEMA in the event this provision is exercised, and DEMA shall not be obligated or liable for any future payments or for any damages as a result of termination under this part XVII, including purchases and/or contracts entered into by Subrecipient in the execution of this Agreement.

**XVIII. FORCE MAJEURE**

If either party hereto is delayed or prevented from the performance of any act required in this Agreement by reason of acts of God, strikes, lockouts, labor disputes, civil disorder, or other causes without fault and beyond the control of the party obligated, performance of such act will be excused for the period of the delay.

**XIX. PARTIAL INVALIDITY**

Any term or provision of this Agreement that is hereafter declared contrary to any current or future law, order, regulation, or rule, or which is otherwise invalid, shall be deemed stricken from this Agreement without impairing the validity of the remainder of this Agreement.

**XX. ARBITRATION**

In the event of any dispute arising under this Agreement, written notice of the dispute must be provided to the other party within thirty (30) days of the events giving the rise to the dispute. In the event that the parties cannot resolve their dispute on an agreed-upon basis, either party may invoke arbitration through the American Arbitration Association ("AAA"), with the arbitrator to be selected pursuant to AAA rules and the arbitration to be conducted according to the applicable AAA rules, and with the costs of arbitration (including but not limited to the arbitrator's fees, attorneys' fees, and costs) to be allocated between the parties by the arbitrator. Both parties being sovereign entities, the parties agree that any litigation to enforce an arbitration award or for any other purpose shall be only in the U.S. District Court for the District of Arizona in Phoenix, Arizona as the proper forum for litigation between sovereign entities located in the State of Arizona. In the event that the parties becoming involved in litigation with each other for any reason in any other forum, both parties agree to have any claim(s) against the other resolved in arbitration on the terms set forth in this part XX.

**XXI. GOVERNING LAW AND CONTRACT INTERPRETATION**

- a) This Agreement shall be governed and interpreted in accordance with the laws of the State of Arizona.
- b) This Agreement is intended by the parties as a final and complete expression of their agreement. No course of prior dealings between the parties and no usage of the trade shall supplement or explain any terms in this document.
- c) Either party's failure to insist on strict performance of any term or condition of the Agreement shall not be deemed a waiver of that term or condition even if the party accepting or acquiescing in the nonconforming performance knows of the nature of the performance and fails to object.

**XXII. ENTIRE AGREEMENT**

This Agreement and its Exhibits constitute the entire Agreement between the parties hereto pertaining to the subject matter hereof and may not be changed or added to except by a writing signed by all parties hereto in conformity with Part XII of this Agreement; provided; however, that DEMA shall have the right to immediately amend this Agreement so that it complies with any new legislation, laws, ordinances, or rules affecting this Agreement. Subrecipient agrees to comply with any such amendment within ten (10) business days of receipt of a fully executed amendment. All prior and

contemporaneous agreements, representations, and understandings of the parties, oral, written, pertaining to the subject matter hereof, are hereby superseded or merged herein.

**XXIII. RESTRICTIONS ON LOBBYING**

Subrecipient shall not use funds made available to it under this Agreement to pay for, influence, or seek to influence any officer or employee of a State or Federal government.

**XXIV. LICENSING**

Subrecipient, unless otherwise exempted by law, shall obtain and maintain all licenses, permits, and authority necessary to perform those acts it is obligated to perform under this Agreement.

**XXV. NON-DISCRIMINATION**

Subrecipient shall comply with all State and Federal equal opportunity and non-discrimination requirements and conditions of employment, including the Americans with Disabilities Act, in accordance with A.R.S. title 41, Chapter 9, Article 4 and Executive Order 2009-09.

**XXVI. SECTARIAN REQUESTS**

Funds disbursed pursuant to this Agreement may not be expended for any sectarian purpose or activity, including sectarian worship or instruction in violation of the United States or Arizona Constitutions.

**XXVII. ADVERTISING AND PROMOTION OF AGREEMENT**

Subrecipient shall not advertise or publish information for commercial benefit concerning this Agreement without the written approval of DEMA.

**XXVIII. CLOSED-CAPTIONING OF PUBLIC SERVICE ANNOUNCEMENTS**

Any television public service announcement that is produced or funded in whole or in part by Subrecipient shall include closed captioning of the verbal content of such announcement.

**XXIX. INDEMNIFICATION**

To the extent permitted by law, each party (as indemnitor) agrees to indemnify, defend and hold harmless the other party (as indemnitee) from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney's fees) (hereinafter collectively referred to as claims) arising out of bodily injury of any person (including death) or property damage, but only to the extent that such claims which result in vicarious/derivative liability to the indemnitee, and are caused by the act, omission, negligence, misconduct, or other fault of the indemnitor, its officers, officials, agents, employees, or volunteers.

**XXX. TERMINATION**

a) All parties reserve the right to terminate the Agreement in whole or in part due to the failure of Subrecipient or DEMA to comply with any term or condition of the Agreement, to acquire and maintain all required insurance policies, bonds, licenses and permits or to make satisfactory progress in performing the Agreement. The party

wishing to terminate this Agreement shall provide the other party with a written thirty (30) day advance notice of the termination and the reasons for it.

- b) If Subrecipient chooses to terminate this Agreement before the grant deliverables have been met then DEMA reserves the right to collect from Subrecipient all funds distributed by DEMA under this Agreement to Subrecipient.
- c) DEMA may, upon termination of this Agreement, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under this Agreement. Subrecipient shall be liable to DEMA for any excess costs incurred by DEMA in procuring materials or services in substitution for those due from Subrecipient.

**XXXI. CONTINUATION OF PERFORMANCE THROUGH TERMINATION**

Subrecipient shall continue to perform, in accordance with the requirements of the Agreement, up to the date of termination, as directed in the termination notice.

**XXXII. COUNTERPARTS**

This Agreement may be executed in any number of counterparts, copies, or duplicate originals. Each such counterpart, copy, or duplicate original shall be deemed an original, and collectively they shall constitute one agreement.

**XXXIII. AUTHORITY TO EXECUTE THIS AGREEMENT**

Each individual executing this Agreement on behalf of Subrecipient represents and warrants that he or she is duly authorized to execute this Agreement.

**XXXIV. SPECIAL CONDITIONS**

Subrecipient acknowledges that U.S. Department of Homeland Security and DEMA reserve a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and authorize others to use, for Federal government purposes:

1. The copyright in any work developed under an award to DEMA or this sub-award to Subrecipient; and
2. Any rights of copy right to which the Subrecipient purchases ownership with Federal support. Subrecipient shall consult with DEMA regarding the allocation of any patent rights that arise from, or are purchased with, this funding.

**XXXV. RECORD RETENTION**

Pursuant to A.R.S. §§ 35-214 and 35-215, the Parties shall retain all records relating to this Agreement for a period of five years after completion of the Agreement. All records shall be subject to inspection and audit by the State of Arizona at reasonable times.

XXXVI. **NOTICES**

Any and all notices, requests, demands, or communications by either party to this Agreement, pursuant to or in connection with this Agreement shall be in writing be delivered in person or shall be sent to the respective parties at the following addresses:

Arizona Department of Emergency & Military Affairs  
5636 E. McDowell Rd  
Phoenix, AZ 85008

Apache County Emergency  
Management  
P. O. Box 518  
St. Johns, AZ 85936

Subrecipient shall address all programmatic questions and reimbursement notices relative to this Agreement to the appropriate DEMA staff contact:

**Programmatic Coordinator**  
Diane Fernandez  
[Diane.Fernandez@azdema.gov](mailto:Diane.Fernandez@azdema.gov)  
602-464-6268

**Grants Coordinator (Fiscal)**  
Wendy Liebman  
[Wendy.Liebman@azdema.gov](mailto:Wendy.Liebman@azdema.gov)  
602-267-2762

XXXVII. **IN WITNESS WHEREOF**

The parties hereto agree to execute this Agreement.

**FOR AND BEHALF OF**  
Apache County Emergency  
Management

  
Authorized Signature

Braannon Eggar E.M. Director  
Name & Title

10-2-17  
Date

**FOR AND BEHALF OF**  
Arizona Department of Emergency & Military Affairs

\_\_\_\_\_

Wendy Smith-Reeve, Director

\_\_\_\_\_

4983525.5

**Federal Fiscal Year 2017  
Arizona Division of Emergency Management**

**REVISED**

MAY 15 2017

Grant Administration

**Application for Emergency Management Performance Grant Funds**

**APPROVED**

<b>APPLICANT INFORMATION:</b>	Date Rec'd by AZDEMA:	Status: SEP 19 2017	
Date Submitted:	Type of Applicant: [ X ] County [ ] Tribe [ ] State [ ] Other:	Grant Administration	Catalog of Federal Domestic Assistance Number: 97-042
Legal Name/Jurisdiction: Apache County	DUNS #: 170320027	Congressional District: 6	
Total Amount Requested: \$202,935.10	Employer Identification #: 866000385	Legislative District: 2	
Name of person to be contact on matters involving the application (include area code): Beverly Parks			Telephone Number: 928-337-7630
Address: (include city, state, and zip code) P.O. Box 518 St. Johns, AZ 85936			Email: bparks@co.apache.az.us

**DETAILED BUDGET TOTALS**

	Category	Total Cost	Total Federal Contribution	Total Non-Federal Contribution
A.	Personnel	\$158,745.77	\$79,372.88	\$79,372.88
B.	Fringe	\$80,348.64	\$40,174.32	\$40,174.32
C.	Travel	\$24,725.99	\$12,362.99	\$12,362.99
D.	Equipment = (>\$5000.00)	\$	\$	\$
E.	Supplies	\$4,277.72	\$2,138.86	\$2,138.86
F.	Contractual/Consultant	\$	\$	\$
G.	Other	\$137,772.08	\$68,886.04	\$68,886.04
H.	<b>Total Direct Charges:</b>	<b>\$405,870.20</b>	<b>\$202,935.10</b>	<b>\$202,935.10</b>
I.	In Direct	\$	\$	\$
J.	<b>Totals</b>	<b>\$405,870.20</b>	<b>\$202,935.10</b>	<b>\$202,935.10</b>

**Authorization to Submit Application:**

By signature below the undersigned acknowledge they have been duly authorized by the jurisdiction to submit this application and will comply with the assurances, agreements, and/or special conditions set forth upon receipt of grant award.

Type Name of Authorized Representative: Brammon Eager	Title: EM Director	Telephone Number: 928-337-7630
Signature of Authorized Representative: 		Date Signed: 3/30/17
Programmatic Contact Name: (if different than application POC) Beverly Parks		Telephone Number: 928-337-7630
Address: (include city, state, and zip code) P.O. Box 518 St. Johns, AZ 85936		Email: bparks@co.apache.az.us
Financial Contact Name: (if different than above)		Telephone Number:

Address: (include city, state, and zip code)

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Email:

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**A. Personnel**

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List each position by title and name of employee, if available. Show the annual salary rate and the percentage of time to be devoted to the EMPG program. Compensation paid for employees engaged in grant activities must be consistent with that paid for similar work within the applicant organization.

Position Title	Annual Salary	Annual Fringe Benefit	% of Time Devoted to Emergency Management	Non-Federal Match	Federal Match
EM Director, Brannon Eagar	\$83,587.11	\$80,135.69	50%	\$35,980.70	\$35,980.70
EM Coordinator, Shane Bevington	\$49,220.24	\$40,515.13	80%	\$35,918.14	\$35,918.14
EM Specialist, Beverly Parks	\$36,632.23	\$13,491.28	100%	\$25,061.76	\$25,061.76
In Kind Salary Michael Jones	\$40,480.00	\$14,555.41	20%	\$5,503.54	\$5,503.54
In Kind Salary D. Merrill	\$45,995.76	29,326.50	10%	\$3,766.16	\$ 3,766.16
In Kind Volunteer	\$10,000.00			\$10,000.00	\$5,000.00
In Kind Labor	\$20,000.00			\$20,000.00	\$10,000.00
<b>Total Personnel</b>				<b>\$168,745.77</b>	
<b>Total Fringe</b>				<b>\$80,348.84</b>	
<b>Total Federal Contribution</b>				<b>\$79,372.88</b>	<b>\$79,372.88</b>
<b>Total Non-Federal Contribution</b>				<b>\$ 40,174.32</b>	<b>\$40,174.32</b>

- Personnel funded by EMPG funding must participate in three annual HSEEP-compliant exercises of any type (i.e. discussion –based or operations-based) identified. Participation must be documented and submitted to ADEM prior to final reimbursement for personnel expenditures.
- Personnel funded by EMPG funding must also meet or show consistent progress towards meeting the training requirements as outlined on Page 28 of the EMPG Notice of Funding Opportunity.
- Personnel funded by EMPG funding will be required to submit a quarterly Time and Effort Reporting (TER) form along with their reimbursement request. The TER should document a minimum of one week's activity for all EMPG-funded personnel with the quarter being submitted for reimbursement.
- Organizational Chart must be included with the application.
- Outline of position responsibilities for all listed EMPG funded personnel must be included with application.

Briefly describe Personnel expenditures, including the method used to code or track funded staff time spent on emergency management activities charged to the grant and/or used to meet local match requirement.

Apache County Emergency Management is under the Apache County Sheriff's Office. There are three full time employees who manage the EM. The EM Director is responsible for overseeing the EM program. The EM Directors time is divided at 50% to EM and 50% to ACSO. The EM Director will set goals, set policy, and priorities for daily operations and funds and coordinates response & support during events/disasters. The EM Coordinator is responsible for reviewing, developing and maintaining plans, coordinating response support and operations of the EOC with the EM Director and other staff. His time is divided into 80% for EM, and the remainder to the

ACSO. The EIM Specialist is funded 100% to EIM. The EIM Specialist is responsible for day to day operations, maintaining the EMPG grant, compiling the programmatic reports, financial reimbursements, and coordinates with the EIM Coordinator and EIM Director with operations for the EOC. All hours worked by the EIM staff are submitted weekly through the county's electronic reporting system, along with paper time sheets submitted to the Sheriff's Office. The EIM program is funded through the EMPG award and is matched by a \$40,000.00 County General fund contribution, and the remainder of the funds are matched by the Sheriff's Office funding through salary and cost match for EIM expenditures. In Kind salaries will be used for those employees who are not federally funded but assist Emergency Management in various functions such as radio communication, equipment maintenance, search & rescue, Dispatch, Communications, Mass Notification System. In Kind Volunteer will be used for the AVERT/CERT, Sheriff's Posse, LEPC, and the Call Center volunteers. In Kind labor will be for county personnel that are called in to assist during disasters/events or through training, exercises, meetings, transporting equipment through logistics efforts, & maintenance of EIM equipment.

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**B. TRAVEL**

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Briefly list the anticipated expenditures in the travel category, including any pre-identified conferences or meetings you are scheduled to attend. You do not need to itemize each one out; categories (i.e. regional planning meetings) will be sufficient.

International Travel Yes / No	Travel Description/Category	Anticipated Cost
No	AESA Conference	\$2,210.48
No	Directors Meetings,	\$2,210.46
No	IAEM Conference	\$5,210.46
No	IMT Training/Meetings Statewide	\$9,884.13
No	NEMA	\$5,210.46
	<b>Total Travel</b>	<b>\$24,725.99</b>
	<b>Total Federal Contribution</b>	<b>\$12,362.99</b>
	<b>Total Non-Federal Contribution</b>	<b>\$12,362.99</b>

Note: All International Travel using EMPG funding requires pre-approval from FEMA Region IX. Requests should be sent to DEMA at least 45 days prior to travel to ensure the request is sent to FEMA and approved prior to the international travel.

**Briefly describe Travel expenditures and how the travel supports your program initiatives and priorities:**

Travel expenses are based on previous travel cost and the current rates based on State, County policy. Travel dates cannot be indicated as they have not been set as yet. Travel is based on annual meetings, training, conferences and exercises held by AZDEMA, AZDOHS and other partnering agencies/counties. Per Diem and lodging rates are based on State/County rates. Where possible, EIM will use lodging that has direct billing to the ACSO.

**C. Equipment:**

List all non-expendable equipment to be purchased. Non-expendable equipment is tangible property having a useful life of more than one year and a cost per item of over \$5,000. (Note: Organization's own capitalization policy and threshold amount for classification of equipment may be used.) Expendable items should be included either in the "Supplies" category or in the "Other" category. Applicants should analyze the cost/benefits of purchasing versus

leasing equipment, especially high cost items. A list of equipment eligible under the EMPG program and the AEL categories can be found at: <https://www.fema.gov/authorized-equipment-list>

AEL Category #	Item Description	Number of Items	Cost per Item	Total Cost of Items
Total Equipment				\$
Total Federal Contribution				\$
Total Non-Federal Contribution				\$

- All equipment purchased with EMPG funding will require inventory tracking and is subject to monitoring by DEMA/FEMA personnel.
- All communications equipment purchased with EMPG funding must adhere to SAFECOM Guidance
- Equipment that requires installation is subject to a comprehensive EHP review process. Please make sure you identify any equipment requiring installation in the narrative below.
- All equipment purchased with EMPG funding must be deployable in support of regional and national efforts with agency consent.

**Briefly describe** what equipment will be purchased, including why the equipment is necessary and how it supports your program initiatives and priorities, and what funds will be utilized to sustain the equipment.

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Describe the equipment installation requirements (if applicable):

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**D. Supplies**

Generally, supplies include any materials that are expendable or consumed during the course of a year and cost less than \$5,000 for a single item. List items by type (office supplies/copying paper, postage, training materials, etc.) and show the basis for computation (if applicable). These supplies should be used in support of and implementation of the EMPG-eligible actions and activities conducted by your jurisdiction.

Item description	Total Cost
Pencils, printer paper, printer ink, Various Post It Notes	\$2,800.00
File Folders, mailing envelopes, Labels for Dynma Printers	\$1,787.25
Storage Containers (for old documents)	\$590.46
Total Supplies:	\$ 5,177.71
Total Federal Contribution:	\$2,138.86

Total Non-Federal Contribution \$2,133,185

**Briefly describe Supplies expenditures:**

Standard office supplies such as pens, ink for printers, folders for files, envelopes and other mentioned items will support the daily operations of the Emergency Operations Office in conducting day-to-day business, meetings and training. Other items will be used to enhance the day to day business operations. Some of these items will also be used to support the EOC's Call Center. Storage containers will be used to store old documents and grant files that cannot be destroyed yet.

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**E. Contractual/Consultants**

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EMPG-eligible services may be contracted to support planning, training and/or exercise activities. Contractual services includes the hiring of part-time or full-time temporary employees to work on specified projects but not included as part of you jurisdictional budget. All contractual services purchased with EMPG funding will require a clear, EMPG-eligible scope of work prior to the work start date.

Description of Service	Name of Organization	Number of Hours	Cost Per Hour	Cost = (Number of hours X Cost Per Hour)
<b>Total Contractual</b>				\$
<b>Total Federal Contribution</b>				\$
<b>Total Non-Federal Contribution</b>				\$

All contractual services must adhere to proper local, state, and federal procurement procedures. For reference, please see 2 CFR 200.316

Briefly explain what contractual services will be procured, including what procurement method will be used, why the service is necessary, and how they support your priorities and initiatives as identified in Item #1 above.

**F. Other Costs**

Please list any other items or services that do not fall under the above listed categories. This typically includes items that are non-consumable and have a per-unit cost of under \$5,000. Examples include fuel for vehicles/EOC generators, fleet services, cell phones, etc.

Description of Cost	Number of Units	Cost Per Unit	Total Cost
Notification System (Everbridge maintenance)			\$25,400.00

EOP online maintenance (BOLD Planning)			\$115,000.00
Copier yearly maintenance			\$1,200.00
Laptops for Call Center	6		\$11,500.00
Utilities, propane			\$22,000.00
Fuel, vehicle maintenance			\$28,700.00
Cell Phone, Telephone, SatCom Phone			\$10,200.00
Portable Generators	4	\$4,089.90	\$16,360.00
Smart Board & Projector for EOC	1 ea		\$2,194.82
Conference Chairs for EOC	8		\$1,817.26
Folding Chairs for Call Center	12		\$1,000.00
Folding cart, Laptop Cart, For EOC			\$500.00
Uniform Supplies for EOC Staff			\$1,700.00
EM brochures, educational flyers			\$2,000.00
			\$700.00
<b>Total Other</b>			<b>\$137,772.08</b>
<b>Total Federal Contribution</b>			<b>\$68,886.04</b>
<b>Total Non-Federal Contribution</b>			<b>\$68,886.04</b>

Briefly explain what other costs will be incurred, including why they are necessary, and how they support your priorities and initiatives as identified in Item #1 above.

Items listed under this category will support the day to day business operations that is conducted out of the EOC, where staff have office space. Telephones, propane, copier maintenance, utilities, fuel, and vehicle maintenance support the daily operations along with travel to work, meetings and training by EOC staff. The grant offsets fuel and maintenance cost for the EOC vehicles, the County contributes the cost of insurance on each of the vehicles. Laptops will be used to replace older ones that have met their shelf life expectancy. These laptops will be placed in the EOC and some in the EOC's Call Center. The Notification System, Everbridge is an on-going maintenance agreement. This system is used daily for notifying staff, and partnering agencies on incidents occurring in the County. Externally it is for notifications to the public for weather, fire, evacuations etc. The maintenance for the EOP from BOLD Planning is to maintain the site and provide support for the system. Conference chairs will replace the current chairs around the EOC Conference table that are becoming old and deteriorated. The Folding cart and laptop cart will be used to transport heavy items to the Call Center. Portable Generators will be used to replace older generators that have reached the end of their life span. When we purchase the generators, we will be looking for name brand generators that will have warranties that come with the generators. Warranty duration will depend upon the make and model of generator. The generators will be located in the incident command trailer, incident command truck, emergency operations trailer, and one off site from the EOC to power emergency lighting and heating systems while working in the field. They will also be able to have a direct connect to a submersible pump for water wells because it will not require a switch. The generators will be gas operated and portable. There will be no need to attach them to a building which means no electrical work or installation will be needed. Generators will have a direct connect which will allow greater mobility to move the EOC where needed. Emergency Management staff or appointed deputy will maintain the upkeep of all emergency management equipment, as well as setting up the generators during a disaster or event. Uniform supplies will be used to purchase shirts/jackets that have the Apache County EM logo on them. This helps identify EM staff during meetings and dedicated events. EM brochures and educational flyers will be used to make and print & distribute information on emergency preparedness.

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G. Indirect Costs

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Indirect costs are allowable under the EMPG program as described in 2 C.F.R. § 200.414. With the exception of recipients who have never received a negotiated indirect cost rate as described in 2 C.F.R. § 200.414(f), recipients must have an approved indirect cost rate agreement with their cognizant Federal agency to charge indirect costs to this award. A copy of the approved rate (a fully executed, agreement negotiated with the applicant's cognizant Federal agency) is required at the time of application, and must be provided to FEMA before indirect costs are charged to the award. If no rate is established, agencies are eligible for the de minimus rate of 10% of personnel/fringe, travel, supplies, contractual services, and other costs; equipment cost are NOT included.

Select one of the following: Number of Units	Rate	Total Indirect Cost
<input type="checkbox"/> Our jurisdiction has an approved indirect cost rate agreement with our cognizant Federal agency to charge indirect costs to this award.*		
<input checked="" type="checkbox"/> Our jurisdiction does not have, or has never had an approved indirect cost rate agreement and would like to claim the de minimus 10% of personnel/fringe, travel, supplies, contractual services, and other costs as found in this application.	10%	\$
<b>Total Indirect Costs</b>		\$
<b>Total Federal Contribution</b>		\$
<b>Total Non-Federal Contribution</b>		\$

\*If your agency has an approved indirect cost agreement, you **MUST** include a copy of it with this application.

Narrative:

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**1. Provide a description of your jurisdiction's emergency management priorities and initiatives that will be addressed with these EMPG funds. Please also outline how expenditures will address/support gaps identified in the THIRA/SPR and/or County/Tribal hazard and risk assessment:**

Apache County Emergency Management will work to ensure a whole community approach with preparedness efforts. In these efforts, we will focus on prevention, protection and mitigation. EMPG will fund the EM staff through these efforts as we work with our local jurisdictions, stakeholders, partners, and neighboring counties to carry out our targeted capabilities. Many of these efforts will be through meetings, trainings and exercises with our State and County Partners.

Expenditures to address the THIRA/SPR and/or County/Tribal hazard and risk assessment will be utilized by attending meetings, trainings, and exercises with the State and Navajo County. Apache EM will continue to work with Navajo County to complete the combined THIRA for the two counties.

**1a. Which Core Capabilities will your projects primarily address? Please choose 3 from the list found at: <https://www.fema.gov/core-capabilities>:**

1. **Public Information and Warning:** Deliver coordinated, prompt, reliable, and actionable information to the whole community through the use of clear, consistent, accessible, and culturally and linguistically appropriate methods to effectively relay information regarding any threat or hazard, as well as the actions being taken and the assistance being made available, as appropriate.
2. **Operational Coordination:** Establish and maintain a unified and coordinated operational structure and processes that appropriately integrates all critical stakeholders and supports the execution of core capabilities.

3. On Scene Security, Protection, and Law Enforcement: Ensure a safe and secure environment through law enforcement and related security and protection operations for people and communities located within affected areas and also for response personnel engaged in lifesaving and life-sustaining operations.

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2. Select which description best describes the status of the designated emergency manager/coordinator for your jurisdiction.

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- Full-time, permanent staff whose primary responsibility is as the emergency manager/coordinator  
 Emergency manager/coordinator duties are assigned to full-time staff with other significant duties  
 Emergency manager/coordinator is a part-time, or seasonal position, or contracted  
 Emergency manager/coordinator duties are assumed as needed by other staff or elected officials

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### 3. Standard Assurances

- a. Has your EOP been updated within the last 2 years?  Yes  No  
If yes, provide date of most recent update:   
If no, provide a date when you anticipate the update will be completed:   
Comments: Apache EM have begun the process of updating the EOP. We should be completed with the update by the end of 2017.
- b. Our plan is in accordance with CPG-101 v.2:  Yes  No.  
If No, provide explanation:
- c. Did your agency participate in the development of the State's annual Threat and Hazard Identification and Risk Assessment (THIRA)?  Yes  No.  
If No, how will your agency accomplish this requirement?   
Provide a date when you anticipate it will be completed:
- d. Does your agency establish and maintain compliance with the National Incident Management System (NIMS) requirements?  Yes  No  
If No, how will your agency accomplish this requirement?
- e. Does your agency develop a multi-year Training and Exercise Plan? (TEP)  Yes  No and/or participate in the state multi-year Training and Exercise Plan Workshop (TEPW)?  Yes  No  
Provide a copy of your agencies 2017 TEP Schedule.  
If No, how will your agency accomplish this requirement?

### 4. Cost Match Criteria

- a. A cost match is required under the program. The Federal share that is used towards the EMPG Program budget shall not exceed 50 percent of the total budget. The subrecipient must equally match (cash or in-kind) the Federal contribution pursuant to Section 611(j) and 613 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Pub. L. No. 93-288), as amended, (42 U.S.C. §§ 5121-5207). Unless otherwise authorized by law, Federal funds cannot be matched with other Federal Funds. FEMA administers cost matching requirements in accordance with 2 CFR 200.306. To meet matching requirements, the recipient contributions must be verifiable, reasonable, allowable, allocable, and necessary under the grant program and must comply with all Federal requirements and regulations.

Briefly describe how your agency intends to match the award here:

The cost match will be covered by \$40,000.00 coming from the Apache County general budget contribution, and the remaining amount will be matched by the Apache County Sheriff's Office funding and through in-kind match.

5i. **Procurement and Administrative Policies and Procedures:** Verification of internal control over and accountability for all funds, property and other assets. Sources: 2 CFR 2015.211(b)(3), Equipment Management Procedures: 2 CFR 215.34(f)(1), 2 CFR 215.51, Written Travel Policy: 2 CFR 220 App A.5B, 2 CFR 200 App A. D(3)(f), 48 CFR 31.205-45. These policies should be readily available for review at the time of a monitoring visit or upon request.

a. Please provide a link to your agency procurement policy here, or:  
<http://www.co.apache.az.us/wp-content/uploads/2015/01/2014Purchasingpolicy.pdf>

b. You may also provide a copy of your current procurement policy with the application.

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**Complete and submit the EMPG Application with required supporting documentation to Diane Fernandez, EMPG Grants Coordinator at [Diane.fernandez@azdema.gov](mailto:Diane.fernandez@azdema.gov) or the address below. Applications and supporting documentation must be received not later than March 10, 2017.**

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**Mailing Address:**

Arizona Department of Emergency and Military Affairs  
 Division of Emergency Management  
 Grants Administration Section  
 5636 E McDowell Road, Bldg 5101, Office E7  
 Phoenix, AZ 85008

EMPG Programmatic Contacts	EMPG Financial Contacts
Darlene Quihuis Assistant Director, Grant Administration <a href="mailto:Darlene.quihuis@azdema.gov">Darlene.quihuis@azdema.gov</a> Office: 602-464-6454	Renee Dudden Resource Manager, Finance Administration <a href="mailto:Renee.dudden@azdema.gov">Renee.dudden@azdema.gov</a> Office: 602-267-2730
Diane Fernandez EMPG Programmatic Coordinator <a href="mailto:Diane.fernandez@azdema.gov">Diane.fernandez@azdema.gov</a> Office: 602-464-6268	Nicole Forbes Financial Grant Coordinator <a href="mailto:Nicole.forbes@azdema.gov">Nicole.forbes@azdema.gov</a> Office: 602-267-2762

SUBRECIPIENT AGREEMENT BETWEEN

Apache County Emergency Management

AND

The Arizona Department of Emergency and Military Affairs  
FOR

Emergency Management Performance Grant - EMF-2017-EP-00008-S01

WHEREAS, A.R.S. § 41-4254 (6) charges the Arizona Department of Emergency and Military Affairs (DEMA) with the responsibility of administering funds.

THEREFORE, it is agreed that DEMA shall provide funding to Apache County Emergency Management ("Subrecipient") under CFDA # 97.042 for services under the terms of this Grant Agreement.

I. PURPOSE OF AGREEMENT

The purpose of this Agreement is to specify the rights and responsibilities of DEMA in administering the distribution of Emergency Management Performance Grant (EMPG) funds to Subrecipient, and to specify the rights and responsibilities of Subrecipient as the recipient of these funds.

II. TERM OF AGREEMENT, TERMINATION AND AMENDMENTS

This Agreement shall become effective on **July 1, 2017** and shall terminate on **June 30, 2018**. The obligations of Subrecipient as described herein will survive termination of this agreement.

III. DESCRIPTION OF SERVICES, SUPPLIES AND EQUIPMENT

Subrecipient shall provide the services for DEMA, and shall purchase the supplies and equipment for Subrecipient's use in conjunction with this Agreement as set forth in writing Subrecipient's grant application titled "EMPG FY17", a copy of which is attached as Exhibit III

- a) The FY 2017 EMPG covers eligible costs from **July 1, 2017 - June 30, 2018**. The funds awarded in the grant agreement shall only be used to cover allowable costs that are incurred during the agreement period. Grant agreement funds shall not be used for other purposes. Allowable costs are defined in the FY 2017 EMPG Notice of Funding Opportunity (NOFO), a copy of which is attached as Exhibit III(a).
- b) All EMPG funded personnel must complete training requirements for the National Incident Management System (NIMS) as stated in the EMPG NOFO, and Subrecipient must provide DEMA with written proof of completion for each individual as soon as that individual's training is completed. All EMPG funded personnel must also participate in no less than three exercises run by either Subrecipient or DEMA in a 12 month period.
- c) Finance & Administration- DEMA will serve as the primary fiscal agent for all FFY 2017 EMPG funds.

- i) The FY 2017 EMPG program has a 50% cost match (cash or in-kind) requirement, as authorized by the *Robert T. Stafford Disaster Relief and Emergency Assistance Act*, as amended, (Pub. L. No. 93-288) (42 U.S.C. §§ 5121 et seq.), specifically, *Title VI, sections 611(U)* and 613. Federal funds cannot exceed 50% of eligible costs. Unless otherwise authorized by law, federal funds cannot be matched with other federal funds. All funds received by Subrecipient through DEMA under this Agreement are agreed to be federal matching funds; Subrecipient shall be solely responsible for providing the other 50% (cash or in-kind) in order to obtain these federal matching funds.
- ii) The Federal Emergency Management Agency (FEMA) administers cost matching requirements in accordance with 2 CFR § 200.306. To meet matching requirements, Subrecipient contributions must be reasonable, allowable, allocable, and necessary under the grant program and must comply with all federal requirements and regulations.

#### IV. MANNER OF FINANCING

DEMA shall:

- a) Provide up to \$202,986.00 to the Subrecipient for 50% of the costs associated with the services, supplies and equipment identified in Exhibit III. Subrecipient will provide the services required by part III of this Agreement and acquire the supplies and equipment identified therein for its own use, unless a change is agreed to as provided in part XII of this Agreement.
- b) Payment made by DEMA to Subrecipient shall be on a reimbursement basis only and is conditioned upon receipt of proof of payment and applicable, accurate and complete reimbursement documents, as deemed necessary by DEMA, to be submitted by Subrecipient. A listing of acceptable documentation is attached as Exhibit IV(b). Payments by DEMA to Subrecipient will be contingent upon DEMA receiving complete documentation for each expenditure from Subrecipient.

Payment maybe contingent upon certification of the Subrecipient's financial management system in accordance with acceptable standards in OMB Circular A-110.

#### V. FISCAL RESPONSIBILITY

It is understood and agreed that all of the funds provided by DEMA to Subrecipient under this Agreement shall be used by Subrecipient only for items and services to be acquired by Subrecipient under this Agreement. For any funds received under this Agreement for which expenditure is disallowed by an audit exemption or otherwise by DEMA, the State, or Federal government, Subrecipient shall reimburse said funds directly to DEMA immediately.

#### VI. FINANCIAL AUDIT/PROGRAMATIC MONITORING

Subrecipient agrees to terms specified in A.R.S. § 35-214 and § 35-215.

- a) If Subrecipient expends \$750,000 or more from all federal funding sources during the fiscal year, Subrecipient shall submit an organization-wide financial and compliance audit report per Subpart F of 2 C.F.R. Part 200. Failure to comply with any requirements imposed as a result of an audit will suspend the release of federal funds by DEMA to Subrecipient until Subrecipient is in compliance with all such requirements.
- b) Subrecipient will be monitored periodically by DEMA, both programmatically and financially, to ensure that the project goals, objectives, performance requirements, timelines, milestone completion, budgets, and other related program criteria are being met. Monitoring will be accomplished through a combination of office-based reviews and onsite monitoring visits. Monitoring can involve aspects of the work involved under this Agreement including but not limited to the review and analysis of financial, programmatic, equipment, performance and administrative issues relative to each program, and may identify areas where technical assistance and other support may be needed. Subrecipient shall participate in and cooperate with all such monitoring by DEMA, and shall provide access to all personnel, documents, and other records as may be requested from time to time by DEMA. Subrecipient also shall comply with all requests of DEMA that DEMA deems necessary to assure the parties' compliance with their obligations under this Agreement.

VII. **APPLICABLE FEDERAL REGULATIONS**

Subrecipient must comply with the EMPG FY 2017 NOFO, Office of Management and Budget (OMB) Circular's Code of Federal Regulations (CFR), and other Federal guidance including but not limited to:

- a) 2 CFR § 200.0-200.345 Uniform Administrative Requirements Subpart A-D, for Grants and Cooperative Agreements to State and Local Governments (formerly OMB Circular A-102)
- b) 2 CFR § 200.402-200.475 Subpart E – Cost Principles, Local & Indian Tribal Governments
- c) 2 CFR Part 200 Subpart E- §200.400-200.417 State and Local Governments; 2 CFR Part 220, Educational Institutions; 2 CFR Part 230, Non-Profit Organizations; Federal Acquisition Regulation Subpart 31.2, Contracts with Commercial Organizations.
- d) U.S. Department of Homeland Security Authorized Equipment List (AEL), at <https://www.fema.gov/authorized-equipment-list>
- e) 2 CFR Part 215, Institutions of Higher Education, Hospitals and Other Non-Profit Organizations.
- f) 28 CFR applicable to grants and cooperative agreements, including Part II, Applicability of Office of Management and Budget Circulars; Part 18, Administrative Review Procedure; Part 20, Criminal Justice Information Systems; Part 22, Confidentiality of Identifiable Research and Statistical Information; Part 23, Criminal Intelligence System Operating Policies; Part 42, Non-discrimination Equal Employment Opportunities Policies and Procedures; Part 61, Procedures for

Implementing the National Environmental Policy Act; Part 63, Floodplain Management and Wetland Protection Procedures; and Part 66, Uniform Administrative Requirements for Grants and Co-operative Agreements to State and Local Government.

- g) OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, at [http://www.whitehouse.gov/omb/circulars/a133\\_compliance\\_supplement\\_2012](http://www.whitehouse.gov/omb/circulars/a133_compliance_supplement_2012).

Included within the above mentioned guidance documents are provisions for the following:

**National Incident Management System (NIMS)**

Subrecipient agrees to remain in compliance with National Incident Management System (NIMS) Implementation initiatives as outlined in the NOFO.

**Environmental Planning and Historic Preservation**

Subrecipient shall comply with all applicable Federal, State, and Local environmental and historic preservation (EHP) requirements and shall provide any information requested by FEMA to ensure compliance with applicable laws including: National Environmental Policy Act, National Historic Preservation Act, Endangered Species Act, and Executive Orders on Floodplains (11988), Wetlands (11990) and Environmental Justice (12898). Subrecipient shall not undertake any project having the potential to impact EHP resources without the prior approval of DEMA/FEMA, including but not limited to communications towers, physical security enhancements, new construction, and modifications to buildings that are 50 years old or greater. Subrecipient must comply with all conditions placed on the project as the result of the EHP review. Any change to the approved project scope of work will require re-evaluation for compliance with these EHP requirements. If ground disturbing activities occur during project implementation, Subrecipient must ensure monitoring of ground disturbance and if any potential archeological resources are discovered, Subrecipient will immediately cease construction in that area and notify FEMA and the appropriate State Historic Preservation Office. Procurement and construction activities shall not be initiated prior to the full environmental and historic preservation review.

**Consultants/Trainers/Training Providers**

Billings for consultants/trainers/training providers must include at a minimum: a description of services; dates of services; number of hours for services performed; rate charged for services; and, the total cost of services performed. Consultant/trainer/training provider costs must be within the prevailing rates; must be obtained under consistent treatment with the procurement policies of Subrecipient and 2 CFR § 200.231, 200.326 & 200.323.

**Contractors/Subcontractors**

Subrecipient may enter into written subcontract(s) for performance of certain of its functions under this Agreement in accordance with terms established in the OMB Circulars, Code of Federal Regulations, DHS Guidance/NOFO and DHS Program Guidance. Subrecipient agrees and understands that no subcontract that Subrecipient

enters into with respect to performance under this Agreement shall in any way relieve Subrecipient of any responsibilities for performance of its duties. Subrecipient shall give DEMA immediate notice in writing by certified mail of any action or suit filed and prompt notice of any claim made against Subrecipient by any subcontractor or vendor which in the opinion of Subrecipient may result in litigation related in any way to the Agreement with DEMA.

#### **Personnel and Travel Costs**

All grant funds expended for personnel, travel, lodging, and per diem must be consistent with the Subrecipient's policies and procedures and the State of Arizona Accounting Manual (SAAM); must be applied uniformly to both federally financed and other activities of the agency; and will be reimbursed at the most restrictive allowability and rate. At no time will Subrecipient's reimbursement(s) exceed the State rate established by the Arizona Department of Administration, General Accounting Office Travel Policies: <https://gao.az.gov/publications/saam>

#### **Procurement**

Subrecipient shall comply with all of its own procurement rules/policies, all Federal procurement rules/policies (including but not limited to those outlined in this section VII of this Agreement), and all Arizona State procurement code provisions and rules. The Federal intent is that all Funds are awarded competitively. Subrecipient shall not enter into a Noncompetitive (Sole or Single Source) procurement agreement, unless prior written approval is granted by DEMA.

#### **Training and Exercise**

Subrecipient agrees that any grant funds used for training and exercise must be in compliance with the NOFO. All training must be approved through DEMA/Arizona Department of Homeland Security training request process prior to execution of training contract(s). All exercises must utilize the FEMA Homeland Security Exercise and Evaluation Program (HSEEP) Toolkit for exercise design, development and scheduling. Subrecipient agrees to:

- a) Submit the HSEEP Toolkit Exercise Summary to DEMA with all Exercise Reimbursement Requests within 90 days of completion of the exercise in question.
- b) Post all exercises, documentation and After Action Reports/Improvement Plans via the HSEEP Toolkit within 90 days of completion of the exercise in question
- c) Within 60 days of completion of an exercise, or as prescribed by the most recent HSEEP guidance, the Subrecipient is required to upload the AAR/IP into the HSEEP Toolkit and email the AAR/IP to the local County Emergency Manager, the FEMA Region IX Exercise POC, [HSEEP@dhs.gov](mailto:HSEEP@dhs.gov), and the DEMA Exercise Officer.

#### **Nonsupplanting Agreement**

Subrecipient shall not use funds to supplant State or Local funds or other resources that would otherwise have been made available for this program/project. Further, if a position created by a grant is filled from within, the vacancy created by this action must be filled within thirty (30) days. If the vacancy is not filled within thirty (30) days, Subrecipient must stop charging the grant for the new position. Upon filling the vacancy, Subrecipient may resume charging for the grant position.

## **E-Verify**

Compliance requirements for A.R.S. § 41-4401—immigration laws and E-Verify requirement.

- a) Subrecipient warrants its compliance with all Federal immigration laws and regulations relating to its employees and to employees of any contractor or subcontractor retained through Subrecipient to provide goods or services related to this Agreement, including but not limited to A.R.S. § 23-214, Subsection A (That subsection reads: "After December 31, 2007, every employer, after hiring an employee, shall verify the employment eligibility of the employee through the E-Verify program").
- b) A breach of a warranty by Subrecipient regarding compliance with immigration laws and regulations shall be deemed a material breach of this Agreement and Subrecipient may be subject to penalties to be determined at DEMA's discretion, up to and including termination of this Agreement.
- c) DEMA retains the legal right to inspect the papers of any Subrecipient employee who works on the Agreement, and those of any employee of any contractor or subcontractor retained through Subrecipient to provide goods or services related to this Agreement, to ensure that Subrecipient is complying with the warranty under paragraph (a) above.

## **Property Control**

Effective control and accountability must be maintained by Subrecipient for all equipment and supplies acquired by Subrecipient under this Agreement. Subrecipient must adequately safeguard all such property and must assure that it is used for authorized purposes as described in the NOFO, grant application, and Code of Federal Regulations (CFRs). Subrecipient shall exercise caution in the use, maintenance, protection and preservation of such property.

- a) Equipment acquired by Subrecipient under this Agreement shall be used by Subrecipient in the program or project for which it was acquired as long as needed, whether or not the program or project continues to be supported by federal grant funds. Theft, destruction, or loss of property shall be reported to DEMA immediately.
- b) Nonexpendable Property is property which has a continuing use, is not consumed in use, is of a durable nature with an expected service life of one or more years, has an acquisition cost of \$300 (Three Hundred Dollars) or more, and does not become a fixture or lose its identity as a component of other equipment or plant.
- c) A Capital Asset is any personal or real property, or fixture that has an acquisition cost of \$5,000 (Five Thousand Dollars) or more per unit and a useful life of more than one year. If the Capital Asset current value is equal to or greater than \$5,000 at the end of life or required project activities is discontinued, Subrecipient must request and receive authorization from DEMA prior to disposition.
- d) A Property Control Form (if applicable) shall be maintained for the entire scope of the program or project for which property was acquired through the end of its useful life and/or disposition. All Nonexpendable Property and Capital Assets must be

included on the Property Control Form. Subrecipient shall provide DEMA a copy of the Property Control Form with the final reimbursement request form, or no more than **ninety (90) calendar days** after the end of the Agreement. The Property Control Form shall be updated and a copy provided to DEMA no more than forty-five (45) calendar days after equipment disposition, if applicable.

- e) Upon submission of the final quarterly programmatic report Subrecipient must file with DEMA a copy of the Property Control Form. Subrecipient agrees to be subject to equipment monitoring and auditing by state or federal authorized representatives to verify information.
- f) A physical inventory of the Nonexpendable Property and Capital Assets must be taken and the results reconciled with the Property Control Form at least once every two years. (1) A control system must be developed to ensure adequate safeguards to prevent loss, damage, or theft of the property. Any loss, damage, or theft shall be investigated. (2) Adequate maintenance procedures must be developed to keep the property in good condition.

**VIII. DEBARMENT CERTIFICATION**

Subrecipient agrees to comply with the Federal Debarment and Suspension regulations as outlined in the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transactions" Attached as Exhibit VIII.

**IX. FUNDS MANAGEMENT**

Subrecipient must maintain funds received under this Agreement in separate ledger accounts and cannot mix these funds with funds from other sources. Subrecipient must manage funds according to applicable Federal regulations for administrative requirements, costs principles, and audits. Subrecipient must maintain adequate business systems to comply with Federal requirements. The business systems that must be maintained are:

- Financial Management
- Procurement
- Personnel
- Property
- Travel

A system is adequate if it is 1) written; 2) consistently followed – it applies in all similar circumstances; and 3) consistently applied – it applies to all sources of funds.

**X. REPORTING REQUIREMENTS**

Regular reports by Subrecipient shall include:

- a) Programmatic Reports- Subrecipient shall provide quarterly programmatic reports to DEMA within fifteen (15) working days of the last day of the quarter in which services are provided. Subrecipient shall use the form provided by DEMA to submit quarterly programmatic reports. The report shall contain such information as deemed necessary by DEMA. Subrecipient shall use the Quarterly Programmatic Report Format template, a copy of which is attached as Exhibit X(a). If a project

has been fully completed and implemented, and there will be no further updates, then the quarterly programmatic report for the quarter in which the project was completed will be sufficient as the final report. The report should be marked as final and should be inclusive of all necessary and pertinent information regarding the project as deemed necessary by DEMA. Quarterly programmatic reports shall be submitted to DEMA until the entire scope of the Grant is completed. Upon request of DEMA, Subrecipient must provide to DEMA information necessary to meet any state or federal reporting requirements.

b) Quarterly Programmatic reports are due:

**October 15** .....(period July 1 – September 30)  
**January 15** .....(period October 1– December 31)  
**April 15** .....(period January 1 – March 31)  
**July 15** .....(period April 1 – June 30) FINAL

Quarterly Financial Expenditure reports are due:

**October 30** .....(period July 1 – September 30)  
**January 30** .....(period October 1– December 31)  
**April 30** .....(period January 1 – March 31)  
**Aug 15** .....(period April 1 – June 30) FINAL

d) Financial Reimbursements

Subrecipient shall provide DEMA with quarterly requests for reimbursement. Reimbursements shall be submitted with the Reimbursement Form provided by DEMA, a copy of which is attached as Exhibit X(d).

Subrecipient shall submit to DEMA a final reimbursement for expenses received and invoiced prior to the end of the termination of this Agreement no more than **ninety (90) calendar days** after the end of the Agreement. Requests for reimbursement received by DEMA later than the ninety (90) days after the Agreement termination will not be paid. The final reimbursement request as submitted shall be marked FINAL.

DEMA requires that all requests for reimbursement are submitted via U.S. mail (United States Postal Service), FedEx, UPS, or another established private delivery service, or in person. Reimbursements submitted via fax or by any electronic means will not be accepted.

DEMA reserves the right to request and/or require any supporting documentation and/or information DEMA believes necessary in order to process reimbursements. Subrecipient shall promptly provide DEMA with all such documents

All reports shall be submitted by Subrecipient to the DEMA contact person as described in Part XXXVII, NOTICES, of this Agreement.

XI. **ASSIGNMENT AND DELEGATION**

Subrecipient may not assign any rights hereunder without the express, prior written consent of both parties.

**XII. AMENDMENTS**

Any change in this Agreement including but not limited to the Description of Services and budget described herein, whether by modification or supplementation, must be accomplished by a formal Agreement amendment signed and approved by and between the duly authorized representative of Subrecipient and DEMA.

Any such amendment shall specify: 1) an effective date; 2) any increases or decreases in the amount of Subrecipient's compensation if applicable; 3) be titled as an "Amendment," and 4) be signed by the parties identified in the preceding sentence. Subrecipient expressly and explicitly understands and agrees that no other method of communication, including any other document, correspondence, act, or oral communication by or from any person, shall be used or construed as an amendment or modification or supplementation to this Agreement.

**XIII. AGREEMENT RENEWAL**

This Agreement shall not bind nor purport to bind DEMA for any contractual commitment in excess of the original Agreement period.

**XIV. RIGHT TO ASSURANCE**

If DEMA in good faith has reason to believe that Subrecipient does not intend to, or is unable to perform or continue performing under this Agreement, DEMA may demand in writing that Subrecipient give a written assurance of intent to perform. If Subrecipient fails to provide written assurance within the number of days specified in the demand, DEMA at its option may terminate this Agreement.

**XV. CANCELLATION FOR CONFLICT OF INTEREST**

DEMA may, by written notice to Subrecipient, immediately cancel this Agreement without penalty or further obligation pursuant to A.R.S. § 38-511 if any person significantly involved in initiating, negotiating, securing, drafting or creating the Agreement on behalf of the State or its subdivisions (unit of Local Government) is an employee or agent of any other party in any capacity or a consultant to any other party to the Agreement with respect to the subject matter of the Agreement. Such cancellation shall be effective when the parties to the Agreement receive written notice from DEMA, unless the notice specifies a later time.

**XVI. THIRD PARTY ANTITRUST VIOLATIONS**

Subrecipient hereby assigns to the State of Arizona any claim for overcharges resulting from antitrust violations to the extent that such violations concern materials or services supplied by third parties to Subrecipient toward fulfillment of this Agreement.

**XVII. AVAILABILITY OF FUNDS**

Every payment obligation of DEMA under this Agreement is conditioned upon the availability of funds appropriated or allocated for the payment of such obligations. If the funds are not allocated and available for the continuance of this Agreement, DEMA may terminate this Agreement at the end of the period for which funds are available. No liability shall accrue to DEMA in the event this provision is exercised, and DEMA shall not be obligated or liable for any future payments or for any damages as a result of termination under this part XVII, including purchases and/or contracts entered into by Subrecipient in the execution of this Agreement.

**XVIII. FORCE MAJEURE**

If either party hereto is delayed or prevented from the performance of any act required in this Agreement by reason of acts of God, strikes, lockouts, labor disputes, civil disorder, or other causes without fault and beyond the control of the party obligated, performance of such act will be excused for the period of the delay.

**XIX. PARTIAL INVALIDITY**

Any term or provision of this Agreement that is hereafter declared contrary to any current or future law, order, regulation, or rule, or which is otherwise invalid, shall be deemed stricken from this Agreement without impairing the validity of the remainder of this Agreement.

**XX. ARBITRATION**

In the event of any dispute arising under this Agreement, written notice of the dispute must be provided to the other party within thirty (30) days of the events giving the rise to the dispute. In the event that the parties cannot resolve their dispute on an agreed-upon basis, either party may invoke arbitration through the American Arbitration Association ("AAA"), with the arbitrator to be selected pursuant to AAA rules and the arbitration to be conducted according to the applicable AAA rules, and with the costs of arbitration (including but not limited to the arbitrator's fees, attorneys' fees, and costs) to be allocated between the parties by the arbitrator. Both parties being sovereign entities, the parties agree that any litigation to enforce an arbitration award or for any other purpose shall be only in the U.S. District Court for the District of Arizona in Phoenix, Arizona as the proper forum for litigation between sovereign entities located in the State of Arizona. In the event that the parties becoming involved in litigation with each other for any reason in any other forum, both parties agree to have any claim(s) against the other resolved in arbitration on the terms set forth in this part XX.

**XXI. GOVERNING LAW AND CONTRACT INTERPRETATION**

- a) This Agreement shall be governed and interpreted in accordance with the laws of the State of Arizona.
- b) This Agreement is intended by the parties as a final and complete expression of their agreement. No course of prior dealings between the parties and no usage of the trade shall supplement or explain any terms in this document.
- c) Either party's failure to insist on strict performance of any term or condition of the Agreement shall not be deemed a waiver of that term or condition even if the party accepting or acquiescing in the nonconforming performance knows of the nature of the performance and fails to object.

**XXII. ENTIRE AGREEMENT**

This Agreement and its Exhibits constitute the entire Agreement between the parties hereto pertaining to the subject matter hereof and may not be changed or added to except by a writing signed by all parties hereto in conformity with Part XII of this Agreement; provided; however, that DEMA shall have the right to immediately amend this Agreement so that it complies with any new legislation, laws, ordinances, or rules affecting this Agreement. Subrecipient agrees to comply with any such amendment within ten (10) business days of receipt of a fully executed amendment. All prior and

contemporaneous agreements, representations, and understandings of the parties, oral, written, pertaining to the subject matter hereof, are hereby superseded or merged herein.

**XXIII. RESTRICTIONS ON LOBBYING**

Subrecipient shall not use funds made available to it under this Agreement to pay for, influence, or seek to influence any officer or employee of a State or Federal government.

**XXIV. LICENSING**

Subrecipient, unless otherwise exempted by law, shall obtain and maintain all licenses, permits, and authority necessary to perform those acts it is obligated to perform under this Agreement.

**XXV. NON-DISCRIMINATION**

Subrecipient shall comply with all State and Federal equal opportunity and non-discrimination requirements and conditions of employment, including the Americans with Disabilities Act, in accordance with A.R.S. title 41, Chapter 9, Article 4 and Executive Order 2009-09.

**XXVI. SECTARIAN REQUESTS**

Funds disbursed pursuant to this Agreement may not be expended for any sectarian purpose or activity, including sectarian worship or instruction in violation of the United States or Arizona Constitutions.

**XXVII. ADVERTISING AND PROMOTION OF AGREEMENT**

Subrecipient shall not advertise or publish information for commercial benefit concerning this Agreement without the written approval of DEMA.

**XXVIII. CLOSED-CAPTIONING OF PUBLIC SERVICE ANNOUNCEMENTS**

Any television public service announcement that is produced or funded in whole or in part by Subrecipient shall include closed captioning of the verbal content of such announcement.

**XXIX. INDEMNIFICATION**

To the extent permitted by law, each party (as indemnitor) agrees to indemnify, defend and hold harmless the other party (as indemnitee) from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney's fees) (hereinafter collectively referred to as claims) arising out of bodily injury of any person (including death) or property damage, but only to the extent that such claims which result in vicarious/derivative liability to the indemnitee, and are caused by the act, omission, negligence, misconduct, or other fault of the indemnitor, its officers, officials, agents, employees, or volunteers.

**XXX. TERMINATION**

a) All parties reserve the right to terminate the Agreement in whole or in part due to the failure of Subrecipient or DEMA to comply with any term or condition of the Agreement, to acquire and maintain all required insurance policies, bonds, licenses and permits or to make satisfactory progress in performing the Agreement. The party

wishing to terminate this Agreement shall provide the other party with a written thirty (30) day advance notice of the termination and the reasons for it.

- b) If Subrecipient chooses to terminate this Agreement before the grant deliverables have been met then DEMA reserves the right to collect from Subrecipient all funds distributed by DEMA under this Agreement to Subrecipient.
- c) DEMA may, upon termination of this Agreement, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under this Agreement. Subrecipient shall be liable to DEMA for any excess costs incurred by DEMA in procuring materials or services in substitution for those due from Subrecipient.

**XXXI. CONTINUATION OF PERFORMANCE THROUGH TERMINATION**

Subrecipient shall continue to perform, in accordance with the requirements of the Agreement, up to the date of termination, as directed in the termination notice.

**XXXII. COUNTERPARTS**

This Agreement may be executed in any number of counterparts, copies, or duplicate originals. Each such counterpart, copy, or duplicate original shall be deemed an original, and collectively they shall constitute one agreement.

**XXXIII. AUTHORITY TO EXECUTE THIS AGREEMENT**

Each individual executing this Agreement on behalf of Subrecipient represents and warrants that he or she is duly authorized to execute this Agreement.

**XXXIV. SPECIAL CONDITIONS**

Subrecipient acknowledges that U.S. Department of Homeland Security and DEMA reserve a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and authorize others to use, for Federal government purposes:

1. The copyright in any work developed under an award to DEMA or this sub-award to Subrecipient; and
2. Any rights of copy right to which the Subrecipient purchases ownership with Federal support. Subrecipient shall consult with DEMA regarding the allocation of any patent rights that arise from, or are purchased with, this funding.

**XXXV. RECORD RETENTION**

Pursuant to A.R.S. §§ 35-214 and 35-215, the Parties shall retain all records relating to this Agreement for a period of five years after completion of the Agreement. All records shall be subject to inspection and audit by the State of Arizona at reasonable times.

XXXVI. **NOTICES**

Any and all notices, requests, demands, or communications by either party to this Agreement, pursuant to or in connection with this Agreement shall be in writing be delivered in person or shall be sent to the respective parties at the following addresses:

Arizona Department of Emergency & Military Affairs  
5636 E. McDowell Rd  
Phoenix, AZ 85008

Apache County Emergency  
Management  
P. O. Box 518  
St. Johns, AZ 85936

Subrecipient shall address all programmatic questions and reimbursement notices relative to this Agreement to the appropriate DEMA staff contact:

**Programmatic Coordinator**  
Diane Fernandez  
[Diane.Fernandez@azdema.gov](mailto:Diane.Fernandez@azdema.gov)  
602-464-6268

**Grants Coordinator (Fiscal)**  
Wendy Liebman  
[Wendy.Liebman@azdema.gov](mailto:Wendy.Liebman@azdema.gov)  
602-267-2762


XXXVII. **IN WITNESS WHEREOF**

The parties hereto agree to execute this Agreement.

**FOR AND BEHALF OF**  
Apache County Emergency  
Management

  
\_\_\_\_\_  
Authorized Signature

  
\_\_\_\_\_  
Name & Title

  
\_\_\_\_\_  
Date

**FOR AND BEHALF OF**  
Arizona Department of Emergency & Military Affairs

\_\_\_\_\_

Wendy Smith-Reeve, Director

\_\_\_\_\_  
Date

4983525.5

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager

Date/Signature: \_\_\_\_\_ 

Describe in detail what you want to say to the Board and what action you want the Board to take:

Discussion and possible approval of a contract with Realauction.com, LLC to conduct the sale of Tax Deed Property via an online auction.

BOS Meeting Date Requested 10/17/17

Legal Review: \_\_\_\_\_ **PRE-AGENDA ITEM REVIEW**  
*See email*

Signature \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials 

The back-tax Land Sale is property that has been removed from the Tax Rolls for non-payment of taxes. The Treasurer creates "Treasurer's Deeds" and those are held by the Board of Supervisors until the Board approves the list and sets the minimum "starting bid" amounts for a public auction. Based on the fact most of the parcels back taxes are higher than what the property is worth, the Treasurers' and Assessors' staff recommend the minimum amount to start the bidding is 10% of the full cash value of the parcel.

PROS: Realauction.com is the online auction site the Treasurer currently uses for her lien auction so the County is familiar with their company and their representatives. By utilizing an online auction site, this would allow bidders from anywhere in the world to bid on, and ultimately purchase property to get those inactive parcels back on the tax rolls to generate income for the County as well as any special district boundary the parcels may be within.

CONS: I see no negative impact to moving forward with the auction associated with the auction other than the costs to Realauction.com as outlined in their contract.

## **Beth Bond**

---

**From:** Beth Bond  
**Sent:** Wednesday, August 2, 2017 4:12 PM  
**To:** Joe Young  
**Subject:** RE: Deed Auction Contract

I will make that change, I wondered about that as well, thank you!

## **Beth Bond**

**Assistant Clerk of the Board**  
**928-337-7502**

**From:** Joe Young  
**Sent:** Wednesday, August 2, 2017 3:29 PM  
**To:** Beth Bond <[bbond@co.apache.az.us](mailto:bbond@co.apache.az.us)>  
**Subject:** RE: Deed Auction Contract

I am ok with the contract. The only thing I would fix is how we are named, in the first paragraph and in the signature block the party is listed as the Apache County Clerk of the B.O.S., but the party should be the B.O.S.

---

**From:** Beth Bond [<mailto:bbond@co.apache.az.us>]  
**Sent:** Tuesday, August 01, 2017 11:50 AM  
**To:** Joe Young  
**Subject:** Deed Auction Contract

Hi Joe, here is the draft contract for the online deed auction company. Please review.

Thanks!

## **Beth Bond**

**Assistant Clerk of the Board**  
**928-337-7502**

## **AGREEMENT FOR SERVICES**

This Agreement made this 6<sup>th</sup> day of October, 2017, between the Board of Supervisors, Apache County, a municipal subdivision of the State of Arizona ("County"), and Realauction.com, L.L.C. ("Contractor"), for Internet-based electronic processing of bid information related to the auction sale of County's Tax Deeded Land, on the following terms:

### **1. Length of Agreement; Cancellation; Termination Upon Default.**

- A. The term of this Agreement shall terminate one year from the above date;
- B. Termination for Default or Breach: This Agreement may be terminated by either party upon the failure of the other to comply with any provision or requirement of this Agreement, provided that written notice of such failure is given to the defaulting party and is not cured within thirty (30) days of the date of receipt of written notice. A party's decision not to take action upon failure of the other party to perform shall not be construed as a waiver of the ability of non-breaching party to take additional action at a later date and time.

### **2. Services to be Provided by Contractor.**

- A. The Contractor shall furnish Internet Auction Services for Tax Deeded Land Sales for Apache County, Arizona. The County's Clerk of the Board of Supervisors has real property that it wishes to sell by online auction on a regular basis, however the County provides no guarantee of quantity or frequency.
- B. The Contractor shall provide a host server for the Web Site. As used herein, the term "Web Site" shall mean an Internet web site that Contractor will make available to County under this Agreement. The Web Site will utilize Contractor's proprietary software, which is capable of accepting and processing competitive bids for Real Property to be sold by Client. The County acknowledges that the Contractor's Server may not be dedicated exclusively to the Web Site. The Contractor shall use its best efforts to make the Web Site available during all business hours and shall not schedule planned maintenance downtime to occur during business hours.
- C. During each auction, the Contractor shall provide Auction Administrator(s) and the technical support necessary to facilitate the County's conduct of online auction sales of real property.
- D. Contractor will assist County with the following:
  - i. Auction set-up. County will select the auction format; e.g., sealed, proxy, etc., to be used, auction start date, end date and batch size as well as the auction's administration and execution, including but not limited to management or retrieval of user registration information and auction results.

- ii. Granting and denying various degrees of access privileges to users and County's employees to the Web Site. Before any County representative is given privileges to access the Web Site and its information, County must provide Contractor with written authorization directing Contractor to give such employees such authority.
- iii. Monitoring network performance while auctions are in progress.
- iv. Providing technical support to resolve questions related to hardware, software or network problems encountered by the County or third party users.
- v. Providing telephone and on-site training sessions for County personnel designated by the County as having a thorough knowledge of the transactions to be consummated through the use of the Web Site at times to be mutually determined.
- vi. Providing personal and telephonic support during normal business hours for the handling of bidder and County questions relating to the general operation of the Web Site. On-site support may also be provided at the County's request. Such on-site support shall be reasonable and at times mutually agreed upon by County and Contractor.

E. Contractor will include on the Web Site terms and conditions, with appropriate disclaimers, which third party users (i.e., participants in auctions/bidders) will be required to give assent. Each party will have the right to reasonably approve the terms and conditions or disclaimers that are included within the Web Site.

F. The Contractor may, in its sole discretion, provide additional ancillary services through the Web Site to third party users that are intended to assist such third party users in evaluating any or all of the Real Property to be sold. Such services may include without limitation:

- i. Hyperlinks on the Web Site to third party sites that contain additional information about the properties that are the subject of sale; and
- ii. Analytical tools, such as search, sort, upload, download and other report customization features. If such services are offered by Contractor thru Web Site, these services shall be provided **at no charge** to the bidders and auction participants.

G. Contractor shall record and maintain records of all activity occurring on the Web Site, and shall retain these records for a period of 5 years from the date of each auction.

H. Contractor shall ensure that the Web Site is capable of providing the following functions:

- i. Accepting, processing and displaying bid information and other data related to auctions of real property.
- ii. Accepting, processing and maintaining an ID number and password from users before users enter any auction, which they may obtain free of charge by simply registering on the Site.
- iii. Providing users with the means for reviewing the list of all Properties being offered for sale, along with, to the extent available, tax roll data and appraiser information with respect to the applicable properties.
- iv. Providing users with the means to bid and to withdraw bids on properties.
- v. Permitting the use, at the County's election, a proxy bidding system, whereby a user will submit the minimum rate that he/she would be willing to receive for the applicable property. The Contractor's software will act on the bidder's behalf, submitting only the maximum rate necessary to win the bidding for any given Property, but in no event less than the minimum rate specified by the bidder. When the auction is over, third party users will see only the higher of the minimum rate submitted by each bidder or their winning bid.
- vi. Allowing users to view auction results after they are approved for release by County.
- vii. Allowing Contractor's Auction Administrators and County's internal auction administrators (the "County Auctioneers") to observe auctions in progress and retrieve information immediately upon completion of each auction, and to release the final results of auctions so that they can be viewed by all users with authorized access to the Web Site.
- viii. Enabling the County's Auction Administrators, or the Contractor Auction Administrator at County's direction, to establish and modify auction parameters; to modify registration information pertaining to a particular third party user or County user; and to limit or prohibit a user's access privileges to the site. County will provide Contractor with the names of County personnel who are permitted to access and/or authorize modifications. In the event County directs Contractor to effect such modifications, County will be required to give Contractor reasonable advance notice before such modifications are to go into effect.

**3. Cooperation by County.** Notwithstanding any other provision herein, the County shall:

A. Notify Contractor of the actual date scheduled for each property sale on the Web Site at least 45 days prior to such date, and provide Contractor with all information concerning the properties which are being offered at auction at least 30 days prior to the date of each auction.

B. Providing Contractor with the names, titles and contact information for all County employees who will have decision-making authority of any kind in the auction process or access to the Contractor's Web Site, as well as the names and contact information of all County employees who are responsible for processing Contractor's requests for payment and supporting documentation.

C. The Web Site shall bear County's name and such other trade dress (e.g., logos, introductory statement from the County etc.) as reasonably directed by the County. The County acknowledges and agrees that every page of the Web Site may display the Contractor's name and company logo.

D. County will reasonably cooperate with Contractor to ensure that Contractor has access to and is provided with all the information it needs to effectuate the real property auctions described in this Agreement and for preparation and delivery of the Contractor's requests for payment. The information provided will include the initial data load and timely updates of properties that have been purchased.

**4. Payment for Services.**

A. The Contractor will be paid for the Contract amount upon invoices submitted to the County by the Contractor on a monthly basis.

B. In consideration of the Services set forth in this Agreement, County shall pay (or cause to be paid) the following fees to Contractor in the manner described:

i. During every auction run, a payment for each individual case that is **sold** through the website, the County shall pay to Contractor a fee of \$75 (seventy five) dollars.

ii. During every auction run, the County shall pay to Contractor a guaranteed flat rate minimum of \$1,500 (one thousand five hundred) if this value exceeds the calculated value of item 4. B. i .

C. The Contractor's request for payment shall be supported by reports or other documents reasonably required by the County, and shall show the Contractor's County Contract number, and the Contractor's federal identification number, in addition to any other information that may be required by the County. Additionally, all requests for payment shall have attached a copy of the original bill, containing an original signature of an authorized representative of the Contractor. Requests for payment shall be

submitted not more than once every thirty days, to an address, department and/or individual designated by the County.

D. Unless otherwise provided on Contractor's invoice or other Instructions that Contractor provides subsequent to the execution of this Agreement, payments shall be made to:

Realauction.com, LLC  
Attn: Lloyd McClendon  
861 SW 78<sup>th</sup> Ave., Suite 102  
Plantation, FL 33324

E. Contractor shall not be obligated to provide any Services hereunder in the event County is more than 60 days delinquent in paying any invoices, provided, however, that Contractor has advised the County Clerk of the Board of Supervisors in writing that it will cease performing services unless delinquent invoices are paid in full.

**5. Limited Warranty; Disclaimer of Implied Warranties; Limitation of Liability; Consequential Damages or Incidental Damages.**

A. Contractor warrants that the Web Site, when provided with accurate and properly formatted data by County and other third party users, and when accessed by properly functioning software and equipment of third party users, will perform substantially as required in order to facilitate County's online auction sales of real property. Contractor will, at no charge to County, make corrections to the Web Site so that the Web Site performs substantially as required, and will use its best efforts to make such corrections available within 24 hours, provided that County reports to Contractor any failures or defects in the Web Site and provides Contractor with information sufficient to correct such failure or defect. In the event Contractor is not able to make such corrections available within 24 hours, the Contractor's chief executive officer and/or chief operating officer will confer with County to advise County with respect to the status of problem resolution and anticipated time of correction.

B. Except for the express limited warranty set forth in the preceding section of this Contract, Contractor makes no warranty, representation, promise or guarantee, either express or implied, statutory or otherwise, with respect to the Web Site or the Services provided hereunder, including their quality, performance, merchantability or fitness for a particular purpose, or whether any of the transactions to be conducted using the Web Site comply with any applicable federal, state, county or other law or regulations. Contractor will have no responsibility for any actual or purported loss resulting from damages associated with the auction format (e.g., Proxy Bidding) selected by County for any particular auction conducted on the Web Site. In no event will Contractor be liable for indirect, special, incidental, economic, cover, consequential, tort or other damages (including without

limitation damages or costs relating to the loss of profits, business, goodwill, data or computer programs, even if advised of the possibility of such damages), without regard to the legal theory of such damages, arising out of the use of or inability to use the Web Site or the services provided hereunder. Except as provided in this paragraph, in no event will Contractor's liability to County arising out of or related to this Contract exceed the fees earned by Contractor under this Contract during the twelve month period immediately preceding the date that the event giving rise to Contractor's liability occurred. Notwithstanding the foregoing, Contractor's liability to County arising out of claims brought against Contractor pursuant to Paragraph (a) above will be no greater than \$1,000,000 in the aggregate.

**6. Confidentiality; Proprietary Information.**

A. The format in which Contractor stores data provided by County will be proprietary to Contractor. County's retrieval and use of the data compiled by Contractor on the Web Site shall be limited to County's internal use only, and County agrees that it will not, unless otherwise required by law, transmit to third parties, or permit other third parties to access the data in the format and compilation created by Contractor.

B. County acknowledges that with respect to bidders who provide minimum bids as part of the Web Site's proxy bidding feature, Contractor will be deemed the agent of such bidders in so far as bidders have provided such minimum bids. Such minimum bids will be the confidential information of the bidder, which Contractor will be required to maintain, and which contractor will not release except as required by law.

C. Except upon prior written approval by the County, the Contractor, or its subcontractors, shall not furnish or disclose to any person and/or organization, any non-public information that County designates as confidential.

D. It is expressly understood and agreed that the software used to develop and operate the Web Site; any related materials and documentation provided by Contractor, including without limitation information related to security or other technical aspects of the Web Site; and the non-public pages of the Web Site constitute a valuable proprietary product and trade secret of Contractor embodying substantial creative efforts and confidential information, ideas, and expressions (collectively for the purposes of this section "Contractor's Confidential Information"). County agrees to hold all such Contractor's Confidential Information in strictest confidence and take such steps as are reasonably necessary to protect the confidentiality of the Contractor's Confidential Information and other materials designated by Contractor as confidential. Such steps shall include, without limitation, refraining from taking any action in derogation of Contractor's ownership rights and taking actions similar to those taken by County with respect to protecting other third party confidential information in its possession. County shall not disclose or otherwise make available the Contractor's Confidential

Information in any form to any person except to those employees of County or Contractor who need access to the information to facilitate County's authorized use of the Web Site. Nothing herein shall be construed, however, to prohibit County from making any disclosures required of County pursuant to any legal process or request from any governmental authority having jurisdiction over County, or from making disclosure required by Arizona law, provided however that prior to disclosure to any such governmental authority, County shall provide notice to Contractor in order to enable Contractor to seek relief.

E. Each party agrees to treat any information they receive that is submitted to the Web Site by third party users, including without limitation, deposit amounts, social security numbers, federal tax identification numbers, etc., in accordance with applicable law and the "privacy policy" set forth in the related link on the Web Site. Contractor will not change the "privacy policy" without County's consent, which will not be unreasonably withheld.

**7. Limited Agency Created; No Third Party Beneficiaries Intended.**

For the purpose of providing auction services for the real property auction and other services specifically described herein, Contractor shall be an agent of the county and shall be required to take direction from the county as to the mechanism and effectuation of the sale. Other than with the respect to the handling of the real property auction and other services described here in, Contractor acknowledges that it does not have the authority to act on behalf of the County or its agencies. Contractor's personnel shall not be employees of the County. There are no intended third party beneficiaries, including without limitation any users of the Web Site described herein.

**8. Force Majeure.** Delay in performance or non-performance of any obligation contained herein shall be excused to the extent such failure or non-performance is caused by force majeure. For purposes of this Contract, "force majeure" shall mean any cause or agency preventing performance of an obligation which is beyond the reasonable control of either party hereto, including without limitation, fire, flood, sabotage, embargo, strike, explosion, labor trouble, accident, riot, acts of governmental authority (including, without limitation, acts based on laws or regulations now in existence as well as those enacted in the future ), and delays or failure in obtaining raw materials or transportation, acts of God, telephone line outages, Internet traffic slowdowns (including any Internet transmission problems incurred by either County's or Contractor's Internet service provider), down computer networks, down hardware, (head crashes, operating system hang-ups and the like), software or operating systems failure caused by a virus or other denial of service attack, and electricity outages. A party affected by a force majeure shall, upon notice to it of the force majeure, promptly notify the other party by the quickest means available, explaining the nature and expected duration thereof, and shall act diligently to remedy the interruption or delay if it is reasonably capable of being remedied.

**9. Entire Understanding; Amendments.** This Agreement constitutes the entire understanding and agreement between the parties hereto with respect to its subject matter and supersedes all prior or contemporaneous agreements,

representations, warranties and understandings of such parties, whether oral or written. This Agreement may only be amended by a separate document, signed by both parties.

**10. Place of Execution; Governing Law; Venue.** This Agreement shall be deemed to be executed in Coconino County, State of Arizona, regardless of the Contractor's domicile, and shall be interpreted and construed in accordance with the laws of the State of Arizona. The Contractor agrees that the venue for any and all claims between the parties arising from this Agreement shall be in the state courts in and for Coconino County, Arizona.

**11. Severability.** If this Contract contains any provision found to be unlawful, the same shall be deemed to be of no effect and shall be deemed stricken from this Contract without affecting the binding force of this Contract as it shall remain after omitting such provision.

IN WITNESS WHEREOF, the parties have executed this Agreement this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

For Realauction.com, L.L.C.: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

For Apache County Board of Supervisors

Chairman of the Board: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager

Date/Signature: \_\_\_\_\_ 

Describe in detail what you want to say to the Board and what action you want the Board to take  
Discussion and possible approval of the back-tax parcels to be offered at public auction.

BOS Meeting Date Requested 10/17/17

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PRE-AGENDA ITEM REVIEW

Legal Review: \_\_\_\_\_

Signature  \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda. Board Clerk's Initials RP

PARCEL NUMBER	LEGAL DESCRIPTION	LAST KNOWN OWNER	AMOUNT DUE	Parcel Size	FCV	10% OF FCV
10627009	CEDAR RIDGE UNIT 2 LOT 9	M.I.C LAND CO	\$ 1,805.32	1.08	\$ 5,700.00	\$ 570.00
10627010	CEDAR RIDGE UNIT 2 LOT 10	M.I.C LAND CO	\$ 1,805.18	1.07	\$ 5,700.00	\$ 570.00
10627011	CEDAR RIDGE UNIT 2 LOT 11	M.I.C LAND CO	\$ 1,805.18	1.07	\$ 5,700.00	\$ 570.00
10627169	CEDAR RIDGE UNIT 2 LOT 169	Unknown	\$ 1,907.63	1.04	\$ 5,700.00	\$ 570.00
10627204	CEDAR RIDGE COMM PARK UNIT 1 LOT 5	Unknown	\$ 1,771.38	0.13	\$ 7,200.00	\$ 720.00
10627207	CEDAR RIDGE COMM PARK UNIT 1 LOT 8	Unknown	\$ 1,695.74	0.12	\$ 7,200.00	\$ 720.00
10627208	CEDAR RIDGE COMM PARK UNIT 1 LOT 9	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627209	CEDAR RIDGE COMM PARK UNIT 1 LOT 10	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627210	CEDAR RIDGE COMM PARK UNIT 1 LOT 11	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627211	CEDAR RIDGE COMM PARK UNIT 1 LOT 12	Unknown	\$ 1,648.90	0.12	\$ 7,200.00	\$ 720.00
10627212	CEDAR RIDGE COMM PARK UNIT 1 LOT 13	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627213	CEDAR RIDGE COMM PARK UNIT 1 LOT 14	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627214	CEDAR RIDGE COMM PARK UNIT 1 LOT 15	Unknown	\$ 1,771.38	0.12	\$ 7,200.00	\$ 720.00
10627221	CEDAR RIDGE COMM PARK UNIT 1 LOT 22 CLAIM #1-66-0036	Unknown	\$ 2,158.56	0.12	\$ 7,200.00	\$ 720.00
10627222	CEDAR RIDGE COMM PARK UNIT 1 LOT 23 CLAIM #1-66-0036	Unknown	\$ 2,090.58	0.12	\$ 7,200.00	\$ 720.00
10627235	CEDAR RIDGE COMM PARK UNIT 1 LOT 36	Unknown	\$ 1,570.31	0.12	\$ 7,200.00	\$ 720.00
10627294	CEDAR RIDGE COMM PARK LOT 95 90/462	Unknown	\$ 975.73	0.12	\$ 7,200.00	\$ 720.00
10627295	CEDAR RIDGE COMM PARK LOT 96 90/462	Unknown	\$ 975.73	0.12	\$ 7,200.00	\$ 720.00
10627296	CEDAR RIDGE COMM PARK LOT 97 90/462	Unknown	\$ 975.73	0.12	\$ 7,200.00	\$ 720.00
10627302	CEDAR RIDGE COMM PARK LOT 103	Unknown	\$ 2,059.68	0.16	\$ 7,200.00	\$ 720.00
10627303	CEDAR RIDGE COMM PARK LOT 104	Unknown	\$ 2,035.95	0.17	\$ 7,200.00	\$ 720.00
10627304	CEDAR RIDGE COMM PARK LOT 105	Unknown	\$ 2,059.68	0.16	\$ 7,200.00	\$ 720.00
10627305	CEDAR RIDGE COMM PARK LOT 106	Unknown	\$ 2,059.68	0.16	\$ 7,200.00	\$ 720.00
10627308	CEDAR RIDGE COMM PARK LOT 109	Unknown	\$ 2,047.16	0.16	\$ 7,200.00	\$ 720.00
10627309	CEDAR RIDGE COMM PARK LOT 110	Unknown	\$ 2,181.38	0.16	\$ 7,200.00	\$ 720.00
10627311	CEDAR RIDGE COMM PARK LOT 112	Unknown	\$ 2,231.23	0.16	\$ 7,200.00	\$ 720.00
20614265	ARIZ PARK EST UNIT 3 LOT 265	Unknown	\$ 2,378.27	5.42	\$ 1,301.00	\$ 130.10
20630205	ARIZONA PARK ESTATES UNIT 4 LOT 205	Unknown	\$ 1,879.58	4.66	\$ 1,118.00	\$ 111.80
20727103	ARIZ PARK EST UNIT 1 LOT 441	Unknown	Unknown	1.07	\$ 546.00	\$ 54.60
20727111	ARIZ PARK EST UNIT 1 LOT 449	Unknown	Unknown	1.16	\$ 592.00	\$ 59.20
20727112	ARIZ PARK EST UNIT 1 LOT 450	Unknown	Unknown	1.16	\$ 592.00	\$ 59.20
20727170	ARIZ PARK EST UNIT 1 LOT 508	Unknown	Unknown	1.06	\$ 541.00	\$ 54.10
20727171	ARIZ PARK EST UNIT 1 LOT 509	Unknown	Unknown	1.06	\$ 541.00	\$ 54.10
20727172	ARIZ PARK EST UNIT 1 LOT 510	Unknown	Unknown	1.15	\$ 587.00	\$ 58.70
20727173	ARIZ PARK EST UNIT 1 LOT 511	Unknown	Unknown	1.15	\$ 587.00	\$ 58.70
20727176	ARIZ PARK EST UNIT 1 LOT 514	Unknown	Unknown	1.15	\$ 587.00	\$ 58.70
20727177	ARIZ PARK EST UNIT 1 LOT 515	Unknown	Unknown	1.44	\$ 734.00	\$ 73.40
20727193	ARIZ PARK EST UNIT 1 LOT 531	Unknown	Unknown	1.16	\$ 592.00	\$ 59.20
20727194	ARIZ PARK EST UNIT 1 LOT 532	Unknown	Unknown	1.16	\$ 592.00	\$ 59.20
20727202	ARIZ PARK EST UNIT 1 LOT 540	Unknown	Unknown	1.07	\$ 546.00	\$ 54.60
20727475	ARIZ PARK EST UNIT 1 LOT 813	Unknown	Unknown	1.14	\$ 581.00	\$ 58.10
20759079	BELL BRAND RANCHES UNIT 1-A LOT 79	Unknown	\$ 1,222.98	1.37	\$ 699.00	\$ 69.90
20759080	BELL BRAND RANCHES UNIT 1-A LOT 80	Unknown	\$ 1,095.54	1.07	\$ 546.00	\$ 54.60
20766013	20 Range: 28 SE4 NE4 SEC 18 T20 R28 40AC	Unknown	Unknown	40	\$ 4,600.00	\$ 460.00
20773107	Tract: 2 Range: 107 WESTERN SKIES ESTATES, LOT 107	Unknown	Unknown	1.04	\$ 328.00	\$ 32.80
21017002	COM COR NE COR SEC 28 TNS 20N R 26E W 147S; TO POB S 2100; SWLY 611; TO PT N 235Q;M/L W 550; TO POB	Unknown	Unknown	28.09	\$ 3,230.00	\$ 323.00
21021002	POR OF NE4 LYNG BTWN RR & HWY SEC 8 20 27 102.5AC	Unknown	Unknown	102.5	\$ 11,788.00	\$ 1,178.80
21125005	PETRIFIED FOREST EST #2 AMMENDED LOT 5	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125006	PETRIFIED FOREST EST #2 AMMENDED LOT 6	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125007	PETRIFIED FOREST EST #2 AMMENDED LOT 7	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125008	PETRIFIED FOREST EST #2 AMMENDED LOT 8	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125009	PETRIFIED FOREST EST #2 AMMENDED LOT 9	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125010	PETRIFIED FOREST EST #2 AMMENDED LOT 10	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125011	PETRIFIED FOREST EST #2 AMMENDED LOT 11	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125012	PETRIFIED FOREST EST #2 AMMENDED LOT 12	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125013	PETRIFIED FOREST EST #2 AMMENDED LOT 13	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125014	PETRIFIED FOREST EST #2 AMMENDED LOT 14	LAGAMCO INC.	\$ 1,925.56	2.17	\$ 1,107.00	\$ 110.70
21125017	PETRIFIED FOREST EST #2 AMMENDED LOT 17	FIRST AMERICAN TITLE CO, RAY & MARY ORNEALS	\$ 608.32	1.08	\$ 551.00	\$ 55.10
21125021	PETRIFIED FOREST EST #2 AMMENDED LOT 21	LAWRENCE A or YASUKO SCOTT	\$ 1,144.67	1.08	\$ 551.00	\$ 55.10
21125022	PETRIFIED FOREST EST #2 AMMENDED LOT 22	LAWRENCE A or YASUKO SCOTT	\$ 1,144.67	1.08	\$ 551.00	\$ 55.10
21125023	PETRIFIED FOREST EST #2 AMMENDED LOT 23	LAWRENCE A or YASUKO SCOTT	\$ 1,144.67	1.08	\$ 551.00	\$ 55.10
21125024	PETRIFIED FOREST EST #2 AMMENDED LOT 24	FIRST AMERICAN TITLE CO & TONY MAGUIRE	\$ 642.48	1.08	\$ 551.00	\$ 55.10
21125026	PETRIFIED FOREST EST #2 AMMENDED LOT 26	FIRST AMERICAN TITLE CO & JAN W. VAN WART	\$ 706.74	1.08	\$ 551.00	\$ 55.10
21125031	PETRIFIED FOREST EST #2 AMMENDED LOT 31	FIRST AMERICAN TITLE CO & LYNN MAE DYER	\$ 768.54	1.08	\$ 551.00	\$ 55.10
21125035	PETRIFIED FOREST EST #2 AMMENDED LOT 35	WILLIAM C. SMITH & ELEANOR SMITH	\$ 710.12	1.08	\$ 551.00	\$ 55.10
21125036	PETRIFIED FOREST EST #2 AMMENDED LOT 36	DALE R. WHITTINGTON	\$ 979.50	1.08	\$ 551.00	\$ 55.10
21125037	PETRIFIED FOREST EST #2 AMMENDED LOT 37	ROBERT D GAUDIOSO	\$ 562.12	1.08	\$ 551.00	\$ 55.10
21125038	PETRIFIED FOREST EST #2 AMMENDED LOT 38	ROBERT D GAUDIOSO	\$ 562.12	1.08	\$ 551.00	\$ 55.10
21125040	PETRIFIED FOREST EST #2 AMMENDED LOT 40	SUSAN ANN or NICOLE WHATLEY	\$ 1,021.03	1.08	\$ 551.00	\$ 55.10
21125042	PETRIFIED FOREST EST #2 AMMENDED LOT 42	JOSEPH METZGUER	\$ 1,849.88	2.17	\$ 1,107.00	\$ 110.70
21125043	PETRIFIED FOREST EST #2 AMMENDED LOT 43	JOSEPH METZGUER	\$ 1,925.56	2.17	\$ 1,107.00	\$ 110.70

21125045	PETRIFIED FOREST EST #2 AMMENDED LOT 45	WILLIAM C. & FLORENCE K. GREEN	\$ 352.48	1.08	\$ 551.00	\$ 55.10
21125046	PETRIFIED FOREST EST #2 AMMENDED LOT 46	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125051	PETRIFIED FOREST EST #2 AMMENDED LOT 51	LAGAMCO INC.	\$ 1,176.65	1.08	\$ 551.00	\$ 55.10
21125052	PETRIFIED FOREST EST #2 AMMENDED LOT 52	ROBERT R. & FAY L. NIEDERMEYER	\$ 1,021.57	1.08	\$ 551.00	\$ 55.10
21125053	PETRIFIED FOREST EST #2 AMMENDED LOT 53	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125054	PETRIFIED FOREST EST #2 AMMENDED LOT 54	JOSEPH METZGUER	\$ 1,231.27	1.08	\$ 551.00	\$ 55.10
21125055	PETRIFIED FOREST EST #2 AMMENDED LOT 55	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125056	PETRIFIED FOREST EST #2 AMMENDED LOT 56	LAGAMCO INC.	\$ 1,787.61	1.99	\$ 1,015.00	\$ 101.50
21125061	PETRIFIED FOREST EST #2 AMMENDED LOT 61	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125062	PETRIFIED FOREST EST #2 AMMENDED LOT 62	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125063	PETRIFIED FOREST EST #2 AMMENDED LOT 63	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125064	PETRIFIED FOREST EST #2 AMMENDED LOT 64	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125066	PETRIFIED FOREST EST #2 AMMENDED LOT 66	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125067	PETRIFIED FOREST EST #2 AMMENDED LOT 67	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125068	PETRIFIED FOREST EST #2 AMMENDED LOT 68	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125069	PETRIFIED FOREST EST #2 AMMENDED LOT 69	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125070	PETRIFIED FOREST EST #2 AMMENDED LOT 70	LAGAMCO INC.	\$ 1,929.32	2.18	\$ 1,112.00	\$ 111.20
21125074	PETRIFIED FOREST EST #2 AMMENDED LOT 74	RONALD L. DAVIS & DENISE C. DAVIS	\$ 700.52	1.09	\$ 556.00	\$ 55.60
21125081	PETRIFIED FOREST EST #2 AMMENDED LOT 81	PRESCOTT VALLEY INC.	\$ 1,187.61	1.09	\$ 556.00	\$ 55.60
21125084	PETRIFIED FOREST EST #2 AMMENDED LOT 84	FIRST AMERICAN TITLE CO	\$ 902.32	2.1	\$ 1,071.00	\$ 107.10
21125085	PETRIFIED FOREST EST #2 AMMENDED LOT 85	SURETY TRUST COMPANY	\$ 1,925.89	2.1	\$ 1,071.00	\$ 107.10
21125086	PETRIFIED FOREST EST #2 AMENDED LOT 86	SURETY TRUST CO.	\$ 1,224.42	1.09	\$ 556.00	\$ 55.60
21125088	PETRIFIED FOREST EST #2 AMMENDED LOT 88	SURETY TRUST COMPANY	\$ 1,224.42	1.09	\$ 556.00	\$ 55.60
21125099	PETRIFIED FOREST EST #2 AMMENDED LOT 99	LAGAMCO INC.	\$ 1,929.32	2.18	\$ 1,112.00	\$ 111.20
21125100	PETRIFIED FOREST EST #2 AMMENDED LOT 100	LAGAMCO INC.	\$ 1,165.17	1.09	\$ 556.00	\$ 55.60
21125101	PETRIFIED FOREST EST #2 AMMENDED LOT 101	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125102	PETRIFIED FOREST EST #2 AMMENDED LOT 102	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125105	PETRIFIED FOREST EST #2 AMMENDED LOT 105	LAGAMCO INC.	\$ 1,122.21	1.09	\$ 556.00	\$ 55.60
21125106	PETRIFIED FOREST EST #2 AMMENDED LOT 106	LAGAMCO INC.	\$ 1,122.21	1.09	\$ 556.00	\$ 55.60
21125109	PETRIFIED FOREST EST #2 AMMENDED LOT 109	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125110	PETRIFIED FOREST EST #2 AMMENDED LOT 110	SURETY TRUST COMPANY	\$ 1,298.92	1.09	\$ 556.00	\$ 55.60
21125111	PETRIFIED FOREST EST #2 AMMENDED LOT 111	KATHLEEN M. JEROME	\$ 1,298.92	1.09	\$ 556.00	\$ 55.60
21125112	PETRIFIED FOREST EST #2 AMMENDED LOT 112	D. NEIL JEROME & ELOUISE JEROME	\$ 1,501.08	1.96	\$ 1,000.00	\$ 100.00
21125113	PETRIFIED FOREST EST #2 AMMENDED LOT 113	LAGAMCO INC.	\$ 1,790.59	1.96	\$ 1,000.00	\$ 100.00
21125114	PETRIFIED FOREST EST #2 AMMENDED LOT 114	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125115	PETRIFIED FOREST EST #2 AMMENDED LOT 115	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125116	PETRIFIED FOREST EST #2 AMMENDED LOT 116	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125123	PETRIFIED FOREST EST #2 AMMENDED LOT 123	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125124	PETRIFIED FOREST EST #2 AMMENDED LOT 124	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125125	PETRIFIED FOREST EST #2 AMMENDED LOT 125	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125126	PETRIFIED FOREST EST #2 AMMENDED LOT 126	LAGAMCO INC.	\$ 1,907.45	2.18	\$ 1,112.00	\$ 111.20
21125130	PETRIFIED FOREST EST #2 AMMENDED LOT 130	AVELETTE E. CALHOON & FRANCES A. CALHOON	\$ 251.16	1.09	\$ 556.00	\$ 55.60
21125139	PETRIFIED FOREST EST #2 AMMENDED LOT 139	FIRST AMERICAN TITLE CO.	\$ 746.74	1.09	\$ 556.00	\$ 55.60
21125155	PETRIFIED FOREST EST #2 AMMENDED LOT 155	LAGAMCO INC.	\$ 1,929.32	2.18	\$ 1,112.00	\$ 111.20
21125156	PETRIFIED FOREST EST #2 AMMENDED LOT 156	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125157	PETRIFIED FOREST EST #2 AMMENDED LOT 157	CAPITAL COMMERCIAL CORP.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125158	PETRIFIED FOREST EST #2 AMMENDED LOT 158	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125161	PETRIFIED FOREST EST #2 AMMENDED LOT 161	LAGAMCO INC.	\$ 1,169.23	1.09	\$ 556.00	\$ 55.60
21125162	PETRIFIED FOREST EST #2 AMMENDED LOT 162	LAGAMCO INC.	\$ 1,169.23	1.09	\$ 556.00	\$ 55.60
21125163	PETRIFIED FOREST EST #2 AMMENDED LOT 163	LAGAMCO INC.	\$ 1,169.23	1.09	\$ 556.00	\$ 55.60
21125164	PETRIFIED FOREST EST #2 AMMENDED LOT 164	LAGAMCO INC.	\$ 1,169.23	1.09	\$ 556.00	\$ 55.60
21125166	PETRIFIED FOREST EST #2 AMMENDED LOT 166	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125167	PETRIFIED FOREST EST #2 AMMENDED LOT 167	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125168	PETRIFIED FOREST EST #2 AMMENDED LOT 168	LAGAMCO INC.	\$ 1,804.96	1.96	\$ 1,000.00	\$ 100.00
21125169	PETRIFIED FOREST EST #2 AMMENDED LOT 169	LAGAMCO INC.	\$ 1,804.96	1.96	\$ 1,000.00	\$ 100.00
21125170	PETRIFIED FOREST EST #2 AMMENDED LOT 170	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125171	PETRIFIED FOREST EST #2 AMMENDED LOT 171	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125172	PETRIFIED FOREST EST #2 AMMENDED LOT 172	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125173	PETRIFIED FOREST EST #2 AMMENDED LOT 173	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125174	PETRIFIED FOREST EST #2 AMMENDED LOT 174	LAGAMCO INC.	\$ 1,184.99	1.08	\$ 551.00	\$ 55.10
21125175	PETRIFIED FOREST EST #2 AMMENDED LOT 175	BETTIE R. PRICKETT	\$ 1,193.47	1.08	\$ 551.00	\$ 55.10
21125176	PETRIFIED FOREST EST #2 AMMENDED LOT 176	LAGAMCO INC.	\$ 1,190.48	1.08	\$ 551.00	\$ 55.10
21125177	PETRIFIED FOREST EST #2 AMMENDED LOT 177	LAGAMCO INC.	\$ 1,163.12	1.08	\$ 551.00	\$ 55.10
21125178	PETRIFIED FOREST EST #2 AMMENDED LOT 178	LAGAMCO INC.	\$ 1,190.48	1.08	\$ 551.00	\$ 55.10
21125179	PETRIFIED FOREST EST #2 AMMENDED LOT 179	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125180	PETRIFIED FOREST EST #2 AMMENDED LOT 180	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125181	PETRIFIED FOREST EST #2 AMMENDED LOT 181	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125182	PETRIFIED FOREST EST #2 AMMENDED LOT 182	LAGAMCO INC.	\$ 1,949.25	2.18	\$ 1,112.00	\$ 111.20
21125187	PETRIFIED FOREST EST #2 AMMENDED LOT 187	DELBERT C. GUM & SHEILA D. GUM	\$ 611.35	1.08	\$ 551.00	\$ 55.10
21125195	PETRIFIED FOREST EST #2 AMMENDED LOT 195	FIRST AMERICAN TITLE CO. & MICHAEL S. PELLERIN	\$ 710.12	1.08	\$ 551.00	\$ 55.10
21125198	PETRIFIED FOREST EST #2 AMMENDED LOT 198	FIRST AMERICAN TITLE CO. & JAMES SAGER	\$ 675.02	1.08	\$ 551.00	\$ 55.10
21125211	PETRIFIED FOREST EST #2 AMMENDED LOT 211	LAGAMCO INC.	\$ 1,886.78	2.18	\$ 1,112.00	\$ 111.20

21125212	PETRIFIED FOREST EST #2 AMMENDED LOT 212	LAGAMCO INC.	\$ 1,181.83	1.08	\$ 551.00	\$ 55.10
21125213	PETRIFIED FOREST EST #2 AMMENDED LOT 213	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125214	PETRIFIED FOREST EST #2 AMMENDED LOT 214	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125215	PETRIFIED FOREST EST #2 AMMENDED LOT 215	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125216	PETRIFIED FOREST EST #2 AMMENDED LOT 216	GUY A. MINNELLA & JOSEPH P. MINNELLA	\$ 743.04	1.08	\$ 551.00	\$ 55.10
21125218	PETRIFIED FOREST EST #2 AMMENDED LOT 218	LAGAMCO INC.	\$ 1,327.92	1.08	\$ 551.00	\$ 55.10
21125220	PETRIFIED FOREST EST #2 AMMENDED LOT 220	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125221	PETRIFIED FOREST EST #2 AMMENDED LOT 221	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125222	PETRIFIED FOREST EST #2 AMMENDED LOT 222	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125223	PETRIFIED FOREST EST #2 AMMENDED LOT 223	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125224	PETRIFIED FOREST EST #2 AMMENDED LOT 224	LAGAMCO INC.	\$ 1,830.56	1.96	\$ 1,000.00	\$ 100.00
21125233	PETRIFIED FOREST EST #2 AMMENDED LOT 233	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125234	PETRIFIED FOREST EST #2 AMMENDED LOT 234	LAGAMCO INC.	\$ 1,151.17	1.08	\$ 551.00	\$ 55.10
21125235	PETRIFIED FOREST EST #2 AMMENDED LOT 235	LAGAMCO INC.	\$ 1,201.17	1.08	\$ 551.00	\$ 55.10
21125236	PETRIFIED FOREST EST #2 AMMENDED LOT 236	LAGAMCO INC.	\$ 1,163.12	1.08	\$ 551.00	\$ 55.10
21125237	PETRIFIED FOREST EST #2 AMMENDED LOT 237	LAGAMCO INC.	\$ 1,163.12	1.08	\$ 551.00	\$ 55.10
21125238	PETRIFIED FOREST EST #2 AMMENDED LOT 238	LAGAMCO INC.	\$ 2,167.31	2.17	\$ 1,107.00	\$ 110.70
21125239	PETRIFIED FOREST EST #2 AMMENDED LOT 239	FORREST G. STITH & LILYFERN T. STITH	\$ 1,039.33	2.17	\$ 1,107.00	\$ 110.70
21125240	PETRIFIED FOREST EST #2 AMMENDED LOT 240	FORREST G. STITH & LILYFERN T. STITH	\$ 710.12	1.08	\$ 551.00	\$ 55.10
21125241	PETRIFIED FOREST EST #2 AMMENDED LOT 241	FORREST G. STITH & LILYFERN T. STITH	\$ 710.12	1.08	\$ 551.00	\$ 55.10
21125242	PETRIFIED FOREST EST #2 AMMENDED LOT 242	FORREST G. STITH & LILYFERN T. STITH	\$ 710.12	1.08	\$ 551.00	\$ 55.10
21125252	PETRIFIED FOREST EST #2 AMMENDED LOT 252	RALPH M. FLYNN & THERESA R. FLYNN	\$ 1,490.68	2.25	\$ 1,148.00	\$ 114.80
21125267	PETRIFIED FOREST EST #2 AMMENDED LOT 267	LAGAMCO INC.	\$ 2,163.55	2.17	\$ 1,107.00	\$ 110.70
21125268	PETRIFIED FOREST EST #2 AMMENDED LOT 268	LAGAMCO INC.	\$ 1,314.68	1.08	\$ 551.00	\$ 55.10
21125269	PETRIFIED FOREST EST #2 AMMENDED LOT 269	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125270	PETRIFIED FOREST EST #2 AMMENDED LOT 270	LAGAMCO INC.	\$ 1,184.99	1.08	\$ 551.00	\$ 55.10
21125271	PETRIFIED FOREST EST #2 AMMENDED LOT 271	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125272	PETRIFIED FOREST EST #2 AMMENDED LOT 272	LAGAMCO INC.	\$ 1,163.12	1.08	\$ 551.00	\$ 55.10
21125273	PETRIFIED FOREST EST #2 AMMENDED LOT 273	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125274	PETRIFIED FOREST EST #2 AMMENDED LOT 274	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125275	PETRIFIED FOREST EST #2 AMMENDED LOT 275	LAGAMCO INC.	\$ 1,212.35	1.08	\$ 551.00	\$ 55.10
21125277	PETRIFIED FOREST EST #2 AMMENDED LOT 277	LAGAMCO INC.	\$ 1,190.48	1.08	\$ 551.00	\$ 55.10
21125278	PETRIFIED FOREST EST #2 AMMENDED LOT 278	LAGAMCO INC.	\$ 1,190.48	1.08	\$ 551.00	\$ 55.10
21125279	PETRIFIED FOREST EST #2 AMMENDED LOT 279	LAGAMCO INC.	\$ 1,190.48	1.08	\$ 551.00	\$ 55.10
21125280	PETRIFIED FOREST EST #2 AMMENDED LOT 280	LAGAMCO INC.	\$ 1,834.25	2.04	\$ 1,040.00	\$ 104.00
21125281	PETRIFIED FOREST EST #2 AMMENDED LOT 281	LAGAMCO INC.	\$ 1,833.04	2.08	\$ 1,061.00	\$ 106.10
21125282	PETRIFIED FOREST EST #2 AMMENDED LOT 282	LAGAMCO INC.	\$ 1,205.37	1.09	\$ 556.00	\$ 55.60
21125283	PETRIFIED FOREST EST #2 AMMENDED LOT 283	LAGAMCO INC.	\$ 1,205.37	1.09	\$ 556.00	\$ 55.60
21125284	PETRIFIED FOREST EST #2 AMMENDED LOT 284	LAGAMCO INC.	\$ 1,216.55	1.09	\$ 556.00	\$ 55.60
21125285	PETRIFIED FOREST EST #2 AMMENDED LOT 285	LAGAMCO INC.	\$ 1,216.55	1.09	\$ 556.00	\$ 55.60
21125286	PETRIFIED FOREST EST #2 AMMENDED LOT 286	LAGAMCO INC.	\$ 1,191.40	1.09	\$ 556.00	\$ 55.60
21125288	PETRIFIED FOREST EST #2 AMMENDED LOT 288	LAGAMCO INC.	\$ 1,216.55	1.09	\$ 556.00	\$ 55.60
21125295	PETRIFIED FOREST EST #2 AMMENDED LOT 295	FREDA ELIZABETH WALLACE & ELSA MARIE FOSTER	\$ 928.44	2.19	\$ 1,117.00	\$ 111.70
21125304	PETRIFIED FOREST EST #2 AMMENDED LOT 304	JOEL T. WEIGAND & ELAINE F WEIGAND	\$ 1,217.33	1.09	\$ 556.00	\$ 55.60
21125310	PETRIFIED FOREST EST #2 AMMENDED LOT 310	FIRST AMERICAN TITLE	\$ 700.52	1.09	\$ 556.00	\$ 55.60
21125321	PETRIFIED FOREST EST #2 AMMENDED LOT 321	FREDA ELIZABETH WALLACE & ELSA MARIE FOSTER	\$ 646.40	1.09	\$ 556.00	\$ 55.60
21125322	PETRIFIED FOREST EST #2 AMMENDED LOT 322	FREDA ELIZABETH WALLACE & ELSA MARIE FOSTER	\$ 928.44	2.19	\$ 1,117.00	\$ 111.70
21125329	PETRIFIED FOREST EST #2 AMMENDED LOT 329	LAGAMCO INC.	\$ 1,216.55	1.09	\$ 556.00	\$ 55.60
21125330	PETRIFIED FOREST EST #2 AMMENDED LOT 330	LAGAMCO INC.	\$ 1,216.55	1.09	\$ 556.00	\$ 55.60
21125331	PETRIFIED FOREST EST #2 AMMENDED LOT 331	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125332	PETRIFIED FOREST EST #2 AMMENDED LOT 332	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125333	PETRIFIED FOREST EST #2 AMMENDED LOT 333	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125334	PETRIFIED FOREST EST #2 AMMENDED LOT 334	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125335	PETRIFIED FOREST EST #2 AMMENDED LOT 335	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125336	PETRIFIED FOREST EST #2 AMMENDED LOT 336	LAGAMCO INC.	\$ 1,853.43	2.1	\$ 1,071.00	\$ 107.10
21125337	PETRIFIED FOREST EST #2 AMMENDED LOT 337	LAGAMCO INC.	\$ 1,849.04	2.15	\$ 1,097.00	\$ 109.70
21125338	PETRIFIED FOREST EST #2 AMMENDED LOT 338	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125339	PETRIFIED FOREST EST #2 AMMENDED LOT 339	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125340	PETRIFIED FOREST EST #2 AMMENDED LOT 340	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125346	PETRIFIED FOREST EST #2 AMMENDED LOT 346	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125347	PETRIFIED FOREST EST #2 AMMENDED LOT 347	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125349	PETRIFIED FOREST EST #2 AMMENDED LOT 349	LAGAMCO INC.	\$ 1,174.72	1.09	\$ 556.00	\$ 55.60
21125351	PETRIFIED FOREST EST #2 AMMENDED LOT 351	PRESCOTT VALLEY INC.	\$ 1,915.43	2.19	\$ 1,117.00	\$ 111.70
21125352	PETRIFIED FOREST EST #2 AMMENDED LOT 352	PRESCOTT VALLEY INC.	\$ 1,187.61	1.09	\$ 556.00	\$ 55.60
21125353	PETRIFIED FOREST EST #2 AMMENDED LOT 353	PRESCOTT VALLEY INC.	\$ 1,187.61	1.09	\$ 556.00	\$ 55.60
21125354	PETRIFIED FOREST EST #2 AMMENDED LOT 354	PRESCOTT VALLEY INC.	\$ 1,167.61	1.09	\$ 556.00	\$ 55.60
21125362	PETRIFIED FOREST EST #2 AMMENDED LOT 362	D. THOMAS HIGGINS, JR.	\$ 409.56	1.09	\$ 556.00	\$ 55.60
21125363	PETRIFIED FOREST EST #2 AMMENDED LOT 363	FIRST AMERICAN TITLE	\$ 700.52	1.09	\$ 556.00	\$ 55.60
21125364	PETRIFIED FOREST EST #2 AMMENDED LOT 364	FIRST AMERICAN TITLE	\$ 1,086.24	2.4	\$ 1,224.00	\$ 122.40
21125366	PETRIFIED FOREST EST #2 AMMENDED LOT 366	LAGAMCO INC.	\$ 1,165.17	1.09	\$ 556.00	\$ 55.60
21125375	PETRIFIED FOREST EST #2 AMMENDED LOT 375	KENNETH C. LONG	\$ 858.72	1.09	\$ 556.00	\$ 55.60
21125376	PETRIFIED FOREST EST #2 AMMENDED LOT 376	KENNETH C. LONG	\$ 858.72	1.09	\$ 556.00	\$ 55.60

21125377	PETRIFIED FOREST EST #2 AMMENDED LOT 377	KENNETH C. LONG	\$ 858.72	1.09	\$ 556.00	\$ 55.60
21125378	PETRIFIED FOREST EST #2 AMMENDED LOT 378	KENNETH C. LONG	\$ 1,297.40	2.19	\$ 1,117.00	\$ 111.70
21125379	PETRIFIED FOREST EST #2 AMMENDED LOT 379	LAGAMCO INC.	\$ 1,931.26	2.19	\$ 1,117.00	\$ 111.70
21125380	PETRIFIED FOREST EST #2 AMMENDED LOT 380	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125381	PETRIFIED FOREST EST #2 AMENDED LOT 381	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125382	PETRIFIED FOREST EST #2 AMMENDED LOT 382	LAGAMCO INC.	\$ 1,196.59	1.09	\$ 556.00	\$ 55.60
21125383	PETRIFIED FOREST EST #2 AMMENDED LOT 383	LILLIAN WALSH	\$ 835.74	1.09	\$ 556.00	\$ 55.60
21125385	PETRIFIED FOREST EST #2 AMMENDED LOT 385	LAGAMCO INC.	\$ 1,165.32	1.09	\$ 556.00	\$ 55.60
21125389	PETRIFIED FOREST EST #2 AMMENDED LOT 389	LADD WELLS KUEHNE & VERA M. KUEHNE	\$ 900.68	1.09	\$ 556.00	\$ 55.60
21125390	PETRIFIED FOREST EST #2 AMMENDED LOT 390	LADD WELLS KUEHNE & VERA M. KUEHNE	\$ 900.68	1.09	\$ 556.00	\$ 55.60
21125391	PETRIFIED FOREST EST #2 AMMENDED LOT 391	LADD WELLS KUEHNE & VERA M. KUEHNE	\$ 900.68	1.09	\$ 556.00	\$ 55.60
21125392	PETRIFIED FOREST EST #2 AMMENDED LOT 392	LADD WELLS KUEHNE & VERA M. KUEHNE	\$ 1,365.18	2.18	\$ 1,112.00	\$ 111.20
21125393	PETRIFIED FOREST EST #2 AMMENDED LOT 393	LAGAMCO INC.	\$ 1,812.64	2.2	\$ 1,122.00	\$ 112.20
21125394	PETRIFIED FOREST EST #2 AMMENDED LOT 394	LAGAMCO INC.	\$ 1,143.16	1.08	\$ 551.00	\$ 55.10
21125395	PETRIFIED FOREST EST #2 AMMENDED LOT 395	LAGAMCO INC.	\$ 1,143.16	1.08	\$ 551.00	\$ 55.10
21125396	PETRIFIED FOREST EST #2 AMMENDED LOT 396	LAGAMCO INC.	\$ 1,207.50	1.08	\$ 551.00	\$ 55.10
21125397	PETRIFIED FOREST EST #2 AMMENDED LOT 397	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125398	PETRIFIED FOREST EST #2 AMMENDED LOT 398	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125399	PETRIFIED FOREST EST #2 AMMENDED LOT 399	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125400	PETRIFIED FOREST EST #2 AMMENDED LOT 400	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125401	PETRIFIED FOREST EST #2 AMMENDED LOT 401	LAGAMCO INC.	\$ 1,143.16	1.08	\$ 551.00	\$ 55.10
21125402	PETRIFIED FOREST EST #2 AMMENDED LOT 402	LAGAMCO INC.	\$ 1,258.73	1.08	\$ 551.00	\$ 55.10
21125403	PETRIFIED FOREST EST #2 AMMENDED LOT 403	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125404	PETRIFIED FOREST EST #2 AMMENDED LOT 404	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125405	PETRIFIED FOREST EST #2 AMMENDED LOT 405	LAGAMCO INC.	\$ 1,192.39	1.08	\$ 551.00	\$ 55.10
21125406	PETRIFIED FOREST EST #2 AMMENDED LOT 406	LAGAMCO INC.	\$ 1,929.32	2.18	\$ 1,112.00	\$ 111.20
21125412	PETRIFIED FOREST EST #2 AMMENDED LOT 412	WESLEY H SHARP & BIVIAN SHARP	\$ 890.62	1.08	\$ 551.00	\$ 55.10
21125413	PETRIFIED FOREST EST #2 AMMENDED LOT 413	TWO SPIRITS BEGAY & LAWRENCE BEGAY	\$ 484.82	1.08	\$ 551.00	\$ 55.10
21125435	PETRIFIED FOREST EST #2 AMMENDED LOT 435	LAGAMCO INC.	\$ 1,929.32	2.18	\$ 1,112.00	\$ 111.20
21125436	PETRIFIED FOREST EST #2 AMMENDED LOT 436	LAGAMCO INC.	\$ 1,200.07	1.1	\$ 561.00	\$ 56.10
21125437	PETRIFIED FOREST EST #2 AMMENDED LOT 437	LAGAMCO INC.	\$ 1,200.07	1.1	\$ 561.00	\$ 56.10
21125438	PETRIFIED FOREST EST #2 AMMENDED LOT 438	LAGAMCO INC.	\$ 1,200.07	1.1	\$ 561.00	\$ 56.10
21125442	PETRIFIED FOREST EST #2 AMMENDED LOT 442	LAGAMCO INC.	\$ 1,178.20	1.1	\$ 561.00	\$ 56.10
21125443	PETRIFIED FOREST EST #2 AMMENDED LOT 443	LAGAMCO INC.	\$ 1,099.87	1.1	\$ 561.00	\$ 56.10
21125444	PETRIFIED FOREST EST #2 AMMENDED LOT 444	LAGAMCO INC.	\$ 1,061.63	1.01	\$ 515.00	\$ 51.50
21125445	PETRIFIED FOREST EST #2 AMMENDED LOT 445	LAGAMCO INC.	\$ 1,168.81	1.01	\$ 515.00	\$ 51.50
21125446	PETRIFIED FOREST EST #2 AMMENDED LOT 446	JOHN H. BREWER & EVELYN R. BREWER	\$ 746.12	1.01	\$ 515.00	\$ 51.50
21125447	PETRIFIED FOREST EST #2 AMMENDED LOT 447	JOHN H. BREWER & EVELYN R. BREWER	\$ 777.38	1.1	\$ 561.00	\$ 56.10
21125448	PETRIFIED FOREST EST #2 AMMENDED LOT 448	JOHN H. BREWER & EVELYN R. BREWER	\$ 1,162.33	2.25	\$ 1,148.00	\$ 114.80
21126001	1/8 Range: 24 IN SE4 100X2640' SEC 4 1/8 24 GAC	WILLIS LYNCH	\$ 1,636.15	6	\$ 690.00	\$ 69.00
21133008	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 8	DAVID GUZMAN GALICIA	\$ 1,048.30	1.17	\$ 597.00	\$ 59.70
21133015	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 15	TOM BARRETT	\$ 2,323.04	2.38	\$ 1,214.00	\$ 121.40
21133017	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 17	WILLARD F. JONES & AGNES E JONES	\$ 1,257.84	1.19	\$ 607.00	\$ 60.70
21133018	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 18	WILLARD F. JONES & AGNES E JONES	\$ 1,257.84	1.18	\$ 602.00	\$ 60.20
21133019	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 19	WILLARD F. JONES & AGNES E JONES	\$ 1,257.84	1.18	\$ 602.00	\$ 60.20
21133021	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 21	WILLARD F. JONES & AGNES E JONES	\$ 1,257.84	1.17	\$ 597.00	\$ 59.70
21133022	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 22	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,012.03	1.17	\$ 597.00	\$ 59.70
21133026	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 26	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,041.60	1.15	\$ 587.00	\$ 58.70
21133027	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 27	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133028	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 28	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,699.83	1.93	\$ 984.00	\$ 98.40
21133029	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 29	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,536.99	1.96	\$ 1,000.00	\$ 100.00
21133030	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 30	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133032	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 32	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133033	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 33	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133034	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 34	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133035	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 35	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133042	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 42	MATT KEILLER & IVEDELL LEE KEILLER	\$ 1,869.81	2.29	\$ 1,168.00	\$ 116.80
21133043	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 43	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,791.43	2.29	\$ 1,168.00	\$ 116.80
21133044	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 44	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,069.18	1.17	\$ 597.00	\$ 59.70
21133045	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 45	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.17	\$ 597.00	\$ 59.70
21133046	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 46	DONALD D. WENT & GLADYS E. WENDT	\$ 780.78	1.17	\$ 597.00	\$ 59.70
21133047	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 47	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.17	\$ 597.00	\$ 59.70
21133048	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 48	AMELIA K. TANASE & GEORGE E. STOVER	\$ 1,188.69	1.17	\$ 597.00	\$ 59.70
21133051	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 51	CAPTIAL COMMERCIAL CORP.	\$ 698.32	1.17	\$ 597.00	\$ 59.70
21133060	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 60	FRANK VENEZIANO & LILA M. VENEZIANO	\$ 853.36	1.16	\$ 592.00	\$ 59.20
21133061	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 61	FRANK VENEZIANO & LILA M. VENEZIANO	\$ 902.89	1.16	\$ 592.00	\$ 59.20
21133062	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 62	AMELIA K. TANASE & GEORGE E. STOVER	\$ 975.07	1.16	\$ 592.00	\$ 59.20
21133066	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 66	BETTE L. & BARBARA ANN GRIGLAK, MARGUERITE LOUISE HEINBLOCK	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21133067	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 67	BETTE L. & BARBARA ANN GRIGLAK, MARGUERITE LOUISE HEINBLOCK	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21133068	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 68	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21133069	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 69	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21133072	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 72	I.P. LARSON & EDNA M. LARSON	\$ 705.28	1.16	\$ 592.00	\$ 59.20

21133075	PETRIFIED FOREST EST #1 AMENDED LOT 75	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133077	PETRIFIED FOREST EST #1 AMENDED LOT 77	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133078	PETRIFIED FOREST EST #1 AMENDED LOT 78	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133079	PETRIFIED FOREST EST #1 AMENDED LOT 79	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133080	PETRIFIED FOREST EST #1 AMENDED LOT 80	TOM BARRETT, TRUSTEE FOR LAND CORP.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133081	PETRIFIED FOREST EST #1 AMENDED LOT 81	A. RALPH YAPPEL	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133082	PETRIFIED FOREST EST #1 AMENDED LOT 82	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133083	PETRIFIED FOREST EST #1 AMENDED LOT 83	DEREL G. PARKER	\$ 689.64	1.16	\$ 592.00	\$ 59.20
21133084	PETRIFIED FOREST EST #1 AMENDED LOT 84	DEREL G. PARKER	\$ 1,048.24	2.02	\$ 1,030.00	\$ 103.00
21133085	PETRIFIED FOREST EST #1 AMENDED LOT 85	MARY DOROCKE	\$ 917.45	2.06	\$ 1,051.00	\$ 105.10
21133086	PETRIFIED FOREST EST #1 AMENDED LOT 86	MARY DOROCKE	\$ 608.32	1.16	\$ 592.00	\$ 59.20
21133087	PETRIFIED FOREST EST #1 AMENDED LOT 87	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133088	PETRIFIED FOREST EST #1 AMENDED LOT 88	A. RALPH YAPPEL	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133089	PETRIFIED FOREST EST #1 AMENDED LOT 89	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 637.34	1.16	\$ 592.00	\$ 59.20
21133090	PETRIFIED FOREST EST #1 AMENDED LOT 90	WEBB R. PHILLIPS & MYRTLE G. PHILLIPS	\$ 797.16	1.16	\$ 592.00	\$ 59.20
21133100	PETRIFIED FOREST EST #1 AMENDED LOT 100	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21133101	PETRIFIED FOREST EST #1 AMENDED LOT 101	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21133102	PETRIFIED FOREST EST #1 AMENDED LOT 102	BETTE L. & BARBARA ANN GRIGLAK, MARGUERITE LOUISE HEINBLOCK	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21133103	PETRIFIED FOREST EST #1 AMENDED LOT 103	BETTE L. & BARBARA ANN GRIGLAK, MARGUERITE LOUISE HEINBLOCK	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21133107	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 107	AMELIA K. TANASE & GEORGE E. STOVER	\$ 975.07	1.16	\$ 592.00	\$ 59.20
21133108	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 108	FRANK VENEZIANO & LILA M. VENEZIANO	\$ 853.36	1.16	\$ 592.00	\$ 59.20
21133109	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 109	FRANK VENEZIANO & LILA M. VENEZIANO	\$ 853.36	1.16	\$ 592.00	\$ 59.20
21133120	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 120	CAPITAL COMMERCIAL CORP.	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21133121	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 121	CAPITAL COMMERCIAL CORP.	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21133123	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 123	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133135	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 135	VIOLET GROSODANOTT-VIGLASKY, DIMITRIUA SIDOROVSKI, TRAJKA SIDOROVSKA, & DEREK MARK VIGLASKY	\$ 255.08	1.16	\$ 592.00	\$ 59.20
21133136	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 136	LEE & MICHELLE BENNETT	\$ 319.86	1.16	\$ 592.00	\$ 59.20
21133139	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 139	LEE & MICHELLE BENNETT	\$ 319.86	1.16	\$ 592.00	\$ 59.20
21133145	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 145	LEE & MICHELLE BENNETT	\$ 319.86	1.16	\$ 592.00	\$ 59.20
21133155	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 155	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,791.43	2.32	\$ 1,183.00	\$ 118.30
21133156	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 156	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133157	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 157	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133163	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 163	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133164	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 164	EDWARD DART & ELEANOR D. DART	\$ 294.58	1.16	\$ 592.00	\$ 59.20
21133166	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 166	CATHER CLANTON & WILLO M. CLANTON	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21133168	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 168	CATHER CLANTON & WILLO M. CLANTON	\$ 1,959.57	2.53	\$ 1,290.00	\$ 129.00
21133169	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 169	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,854.82	2.48	\$ 1,265.00	\$ 126.50
21133170	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 170	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133171	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 171	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133172	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 172	DONNA M. KUHN & R.M. KUHN	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133173	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 173	DONNA M. KUHN & R.M. KUHN	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133174	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 174	DONNA M. KUHN & R.M. KUHN	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133175	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 175	DONNA M. KUHN & R.M. KUHN	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133176	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 176	JOHN S. KRUGLICK INVESTMENT TRUST	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133177	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 177	JOHN S. KRUGLICK INVESTMENT TRUST	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133178	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 178	JOHN S. KRUGLICK INVESTMENT TRUST	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133179	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 179	JOHN S. KRUGLICK INVESTMENT TRUST	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133183	PETRIFIED FOREST EST #1 AMENDED LOT 183	E.H. & BLANCHE C. HOWE	\$ 1,968.45	2.29	\$ 1,168.00	\$ 116.80
21133184	PETRIFIED FOREST EST #1 AMENDED LOT 184	CAPITAL COMMERCIAL CORP.	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21133185	PETRIFIED FOREST EST #1 AMENDED LOT 185	CAPITAL COMMERCIAL CORP.	\$ 975.07	1.15	\$ 587.00	\$ 58.70
21133187	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 187	TOM BARRETT, TRUSTEE FOR ARIZONA LAND CORP.	\$ 1,012.03	1.15	\$ 587.00	\$ 58.70
21133189	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 189	CAPITAL COMMERCIAL CORP.	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21133190	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 190	WILLIAM S. & LELIA C. COOLEY	\$ 1,166.82	1.15	\$ 587.00	\$ 58.70
21133192	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 192	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133193	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 193	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133194	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 194	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133195	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 195	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133196	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 196	LLOYD D. & ELOISE M. GOLDEN	\$ 766.17	2.15	\$ 1,097.00	\$ 109.70
21133197	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 197	LLOYD D. & ELOISE M. GOLDEN	\$ 766.17	2.15	\$ 1,112.00	\$ 111.20
21133198	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 198	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133199	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 199	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133200	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 200	LLOYD D. & ELOISE M. GOLDEN	\$ 509.52	1.15	\$ 587.00	\$ 58.70
21133201	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 201	LLOYD D. & ELOISE M. GOLDEN	\$ 553.14	1.15	\$ 587.00	\$ 58.70
21133203	PETRIFIED FOREST EST #1 AMENDED LOT 203	TOM BARRETT, TRUSTEE FOR ARIZONA LAND CORP.	\$ 1,073.70	1.15	\$ 587.00	\$ 58.70
21133204	PETRIFIED FOREST EST #1 AMENDED LOT 204	TOM BARRETT, TRUSTEE FOR ARIZONA LAND CORP.	\$ 1,073.70	1.15	\$ 587.00	\$ 58.70
21133206	PETRIFIED FOREST EST #1 AMENDED LOT 206	LOUIS GONZALES & ADELINE M. GONZALES, GONZALES FAMILY TRUST	\$ 363.48	1.15	\$ 587.00	\$ 58.70
21133207	PETRIFIED FOREST EST #1 AMENDED LOT 207	LOUIS GONZALES & ADELINE M. GONZALES, GONZALES FAMILY TRUST	\$ 363.48	1.15	\$ 587.00	\$ 58.70
21133208	PETRIFIED FOREST EST #1 AMENDED LOT 208	LOUIS GONZALES & ADELINE M. GONZALES, GONZALES FAMILY TRUST	\$ 363.48	1.15	\$ 587.00	\$ 58.70
21133209	PETRIFIED FOREST EST #1 AMENDED LOT 209	LOUIS GONZALES & ADELINE M. GONZALES, GONZALES FAMILY TRUST	\$ 363.48	1.15	\$ 587.00	\$ 58.70
21133210	PETRIFIED FOREST EST #1 AMENDED LOT 210	E.H. & BLANCHE C. HOWE	\$ 2,076.12	2.29	\$ 1,168.00	\$ 116.80
21133214	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 214	DONALD D. WENT & GLADYS E. WENDT	\$ 1,208.31	1.15	\$ 587.00	\$ 58.70
21133215	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 215	DONALD D. WENT & GLADYS E. WENDT	\$ 1,208.31	1.15	\$ 587.00	\$ 58.70

21133216	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 216	DONALD D. WENT & GLADYS E. WENDT	\$ 1,208.31	1.15	\$ 587.00	\$ 58.70
21133217	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 217	DONALD D. WENT & GLADYS E. WENDT	\$ 1,208.31	1.15	\$ 587.00	\$ 58.70
21133218	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 218	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133219	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 219	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133220	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 220	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133221	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 221	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133222	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 222	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133223	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 223	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21133224	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 224	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,717.92	2.45	\$ 1,250.00	\$ 125.00
21133225	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 225	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,914.31	2.39	\$ 1,219.00	\$ 121.90
21133226	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 226	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133228	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 228	PRESCOTT UTILITIES CORP.	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133229	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 229	PRESCOTT UTILITIES CORP.	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21133230	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 230	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,078.59	1.15	\$ 587.00	\$ 58.70
21133236	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 236	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133237	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 237	CAPITAL COMMERCIAL CORP.	\$ 1,204.31	1.15	\$ 587.00	\$ 58.70
21133238	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 238	CAPITAL COMMERCIAL CORP.	\$ 1,996.05	2.29	\$ 1,168.00	\$ 116.80
21133239	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 239	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,780.54	2.29	\$ 1,168.00	\$ 116.80
21133240	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 240	SYDNEY ALBERTSON & GRACE ALBERTSON	\$ 1,232.24	1.15	\$ 587.00	\$ 58.70
21133241	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 241	SYDNEY ALBERTSON & GRACE ALBERTSON	\$ 1,232.24	1.15	\$ 587.00	\$ 58.70
21133242	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 242	ARIZONA LAND COMPANY, FRED M. & MARY M. WILLIAMS	\$ 1,166.82	1.15	\$ 587.00	\$ 58.70
21133243	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 243	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133244	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 244	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,021.18	1.15	\$ 587.00	\$ 58.70
21133245	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 245	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,375.67	1.15	\$ 587.00	\$ 58.70
21133251	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 251	CAPITAL COMMERCIAL CORP.	\$ 1,126.79	1.15	\$ 587.00	\$ 58.70
21133252	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 252	ELMER J. BRENNAN & EDNA G. BRENNAN	\$ 479.20	1.08	\$ 551.00	\$ 55.10
21133253	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 253	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.12	\$ 571.00	\$ 57.10
21133254	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 254	MAX ENGEL & SUSAN GRAEBER	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133255	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 255	MAX ENGEL & SUSAN GRAEBER	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21133267	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 267	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 2,076.56	2.29	\$ 1,168.00	\$ 116.80
21133274	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 274	TOM BARRETT, TRUSTEE FOR ALCO INDUS.	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21133275	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 275	CAPITAL COMMERCIAL CORP.	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21133276	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 276	PRESCOTT UTILITIES CORP.	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21133277	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 277	PRESCOTT UTILITIES CORP.	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21133279	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 279	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,205.55	1.15	\$ 587.00	\$ 58.70
21133280	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 280	MARY DOROCKE	\$ 917.61	2.36	\$ 1,204.00	\$ 120.40
21133282	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 282	W.F. BLACKERBY JR.	\$ 1,046.84	1.16	\$ 592.00	\$ 59.20
21133283	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 283	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,079.60	1.16	\$ 592.00	\$ 59.20
21133286	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 286	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133287	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 287	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133288	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 288	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133289	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 289	JAMAL I. & SOUSAN S. HAMADEH	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133293	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 293	JAMAL I. & SOUSAN S. HAMADEH	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133295	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 295	JAMAL I. & SOUSAN S. HAMADEH	\$ 1,046.84	1.16	\$ 592.00	\$ 59.20
21133295	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 295	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,791.43	2.32	\$ 1,183.00	\$ 118.30
21133301	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 301	JOHN A. & FLORA S. MIZNER	\$ 294.58	1.16	\$ 592.00	\$ 59.20
21133304	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 304	CAPITAL COMMERCIAL CORPORATION	\$ 1,074.50	1.16	\$ 592.00	\$ 59.20
21133305	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 305	CAPITAL COMMERCIAL CORPORATION	\$ 1,074.50	1.16	\$ 592.00	\$ 59.20
21133306	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 306	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133307	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 307	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,388.69	1.16	\$ 592.00	\$ 59.20
21133310	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 310	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133311	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 311	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133312	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 312	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133313	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 313	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133316	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 316	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133318	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 318	CARL E. BARR, JR. & MELUE E. BARR	\$ 933.38	1.16	\$ 592.00	\$ 59.20
21133319	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 319	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133320	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 320	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133321	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 321	Unknown	Unknown	1.16	\$ 592.00	\$ 59.20
21133322	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 322	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133323	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 323	CAPITAL COMMERCIAL CORPORATION	\$ 1,994.85	2.32	\$ 1,183.00	\$ 118.30
21133328	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 328	MIKE POPE	\$ 1,146.48	2.31	\$ 1,178.00	\$ 117.80
21133331	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 331	BRIAN QUILTY	\$ 804.18	1.16	\$ 592.00	\$ 59.20
21133332	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 332	BRIAN QUILTY	\$ 821.28	1.16	\$ 592.00	\$ 59.20
21133332	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 332	PYRAMID PLANNERS ASSURANCE CO.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133333	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 333	PYRAMID PLANNERS ASSURANCE CO.	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133334	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 334	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133335	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 335	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133336	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 336	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133338	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 338	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,653.51	2.3	\$ 1,173.00	\$ 117.30
21133339	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 339	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133345	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 345	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133345	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 345	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133346	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 346	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133347	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 347	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20

21133348	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 348	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133350	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 350	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 734.98	2.31	\$ 1,178.00	\$ 117.80
21133351	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 351	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,824.90	2.32	\$ 1,183.00	\$ 118.30
21133353	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 353	W.F. BLACKERBY JR.	\$ 1,115.99	1.16	\$ 592.00	\$ 59.20
21133354	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 354	ARNOLD N. WARD & ALICE R. WARD	\$ 914.27	1.16	\$ 592.00	\$ 59.20
21133355	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 355	ARNOLD N. WARD & ALICE R. WARD	\$ 933.38	1.16	\$ 592.00	\$ 59.20
21133356	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 356	ARNOLD N. WARD & ALICE R. WARD	\$ 933.38	1.16	\$ 592.00	\$ 59.20
21133357	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 357	ARNOLD N. WARD & ALICE R. WARD	\$ 933.38	1.16	\$ 592.00	\$ 59.20
21133358	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 358	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133359	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 359	E.H. HOWE & BLANCHE C. HOWE	\$ 1,238.12	1.16	\$ 592.00	\$ 59.20
21133360	PETRIFIED FOREST EST #1 AMENDED LOT 360	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133361	PETRIFIED FOREST EST #1 AMENDED LOT 361	HELEN M. MAJEWSKI	\$ 1,414.93	1.16	\$ 592.00	\$ 59.20
21133362	PETRIFIED FOREST EST #1 AMENDED LOT 362	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133363	PETRIFIED FOREST EST #1 AMENDED LOT 363	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133364	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 364	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,791.43	2.4	\$ 1,224.00	\$ 122.40
21133365	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 365	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,791.43	2.41	\$ 1,229.00	\$ 122.90
21133366	PETRIFIED FOREST EST #1 AMENDED LOT 366	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133367	PETRIFIED FOREST EST #1 AMENDED LOT 367	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133368	PETRIFIED FOREST EST #1 AMENDED LOT 368	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133369	PETRIFIED FOREST EST #1 AMENDED LOT 369	HELEN M. MAJEWSKI	\$ 1,336.94	1.16	\$ 592.00	\$ 59.20
21133370	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 370	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133371	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 371	E.H. HOWE & BLANCHE C. HOWE	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21133374	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 374	ALICE TOWNSEND BARLOW & CHARLOTTE BARLOW MATTHEWS	\$ 760.07	1.16	\$ 592.00	\$ 59.20
21133376	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 376	FRANK T. MEYER	\$ 1,221.63	1.16	\$ 592.00	\$ 59.20
21133377	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 377	FRANK T. MEYER	\$ 1,221.63	1.16	\$ 592.00	\$ 59.20
21133378	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 378	FRANK T. MEYER	\$ 1,843.16	2.32	\$ 1,183.00	\$ 118.30
21133381	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 381	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133382	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 382	WILLIAM H. SCHULTE & PAULINE B. SCHULTE	\$ 548.62	1.16	\$ 592.00	\$ 59.20
21133383	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 383	LESLIE B. MOREAU & MARIE M. MOREAU	\$ 433.22	1.16	\$ 592.00	\$ 59.20
21133384	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 384	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133385	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 385	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133387	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 387	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,041.60	1.16	\$ 592.00	\$ 59.20
21133390	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 390	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21133392	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 392	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 2,069.33	2.22	\$ 1,132.00	\$ 113.20
21133393	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 393	ALFRED POE & LELA K. POE	\$ 2,055.11	2.13	\$ 1,086.00	\$ 108.60
21133394	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 394	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133395	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 395	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133396	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 396	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133397	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 397	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133406	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 406	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,777.23	2.28	\$ 1,163.00	\$ 116.30
21133407	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 407	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,791.43	2.28	\$ 1,163.00	\$ 116.30
21133408	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 408	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133409	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 409	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,099.60	1.14	\$ 581.00	\$ 58.10
21133413	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 413	ALICE TOWNSEND BARLOW & CHARLOTTE BARLOW MATTHEWS	\$ 779.18	1.14	\$ 581.00	\$ 58.10
21133414	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 414	ALICE TOWNSEND BARLOW & CHARLOTTE BARLOW MATTHEWS	\$ 779.18	1.14	\$ 581.00	\$ 58.10
21133415	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 415	ALICE TOWNSEND BARLOW & CHARLOTTE BARLOW MATTHEWS	\$ 779.18	1.14	\$ 581.00	\$ 58.10
21133420	PETRIFIED FOREST EST UNIT 1 AMENDED LOT 420	ARIZONA LAND CORPORATION OR FRED M. WILLIAMS & MARY M. WILLIAMS	\$ 1,872.76	2.43	\$ 1,239.00	\$ 123.90
21134047	PETRIFIED FOREST EST #3 LOT 47	BRIAN QUILTY	\$ 800.79	1.16	\$ 592.00	\$ 59.20
21134070	PETRIFIED FOREST EST #3 LOT 70	CAPITAL COMMERCIAL CORP	\$ 1,204.31	1.16	\$ 592.00	\$ 59.20
21134071	PETRIFIED FOREST EST #3 LOT 71	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134072	PETRIFIED FOREST EST #3 LOT 72	QUILTY BRIAN	\$ 1,137.30	1.16	\$ 592.00	\$ 59.20
21134073	PETRIFIED FOREST EST #3 LOT 73	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134075	PETRIFIED FOREST EST #3 LOT 75	SPIGER JOHN H AND HELEN E	\$ 608.32	1.16	\$ 592.00	\$ 59.20
21134077	PETRIFIED FOREST EST #3 LOT 77	QUILTY BRIAN	\$ 1,115.43	1.16	\$ 592.00	\$ 59.20
21134078	PETRIFIED FOREST EST #3 LOT 78	QUILTY BRIAN	\$ 1,115.43	1.16	\$ 592.00	\$ 59.20
21134079	PETRIFIED FOREST EST #3 LOT 79	QUILTY BRIAN	\$ 1,115.43	1.16	\$ 592.00	\$ 59.20
21134081	PETRIFIED FOREST EST #3 LOT 81	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 2,139.86	2.38	\$ 1,214.00	\$ 121.40
21134082	PETRIFIED FOREST EST #3 LOT 82	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134083	PETRIFIED FOREST EST #3 LOT 83	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134084	PETRIFIED FOREST EST #3 LOT 84	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134085	PETRIFIED FOREST EST #3 LOT 85	LABER, LOWALLO & COLARICH, LTD	\$ 1,235.97	1.16	\$ 592.00	\$ 59.20
21134086	PETRIFIED FOREST EST #3 LOT 86	LABER, LOWALLO & COLARICH, LTD	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134087	PETRIFIED FOREST EST #3 LOT 87	LABER, LOWALLO & COLARICH, LTD	\$ 1,124.69	1.16	\$ 592.00	\$ 59.20
21134089	PETRIFIED FOREST EST #3 LOT 89	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134090	PETRIFIED FOREST EST #3 LOT 90	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134091	PETRIFIED FOREST EST #3 LOT 91	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134092	PETRIFIED FOREST EST #3 LOT 92	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134093	PETRIFIED FOREST EST #3 LOT 93	JOHN S KRUGLICK INVESTMENTS TRUST	\$ 1,258.84	1.16	\$ 592.00	\$ 59.20
21134094	PETRIFIED FOREST EST #3 LOT 94	QUILTY BRIAN	\$ 1,503.02	1.57	\$ 801.00	\$ 80.10
21134095	PETRIFIED FOREST EST #3 LOT 95	PRESCOTT VALLEY INC	\$ 1,214.66	1.15	\$ 587.00	\$ 58.70
21134096	PETRIFIED FOREST EST #3 LOT 96	PRESCOTT VALLEY INC	\$ 1,161.40	1.16	\$ 592.00	\$ 59.20
21134097	PETRIFIED FOREST EST #3 LOT 97	PRESCOTT VALLEY INC	\$ 1,161.40	1.16	\$ 592.00	\$ 59.20

21134098	PETRIFIED FOREST EST #3 LOT 98	METZGUER JOSEPH C	\$ 1,235.97	1.16	\$ 592.00	\$ 59.20
21134099	PETRIFIED FOREST EST #3 LOT 99	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134100	PETRIFIED FOREST EST #3 LOT 100	CAPITAL COMMERCIAL CORP	\$ 1,205.55	1.16	\$ 592.00	\$ 59.20
21134101	PETRIFIED FOREST EST #3 LOT 101	CAPITAL COMMERCIAL CORP	\$ 1,206.55	1.16	\$ 592.00	\$ 59.20
21134102	PETRIFIED FOREST EST #3 LOT 102	CAPITAL COMMERCIAL CORP	\$ 933.38	1.16	\$ 592.00	\$ 59.20
21134103	PETRIFIED FOREST EST #3 LOT 103	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134105	PETRIFIED FOREST EST #3 LOT 105	COX ALBERT L AND ROSAMOND M	\$ 504.18	1.16	\$ 592.00	\$ 59.20
21134111	PETRIFIED FOREST EST #3 LOT 111	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134113	PETRIFIED FOREST EST #3 LOT 113	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134114	PETRIFIED FOREST EST #3 LOT 114	ALCO INDUSTRIES, INC	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134117	PETRIFIED FOREST EST #3 LOT 117	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134118	PETRIFIED FOREST EST #3 LOT 118	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134119	PETRIFIED FOREST EST #3 LOT 119	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134120	PETRIFIED FOREST EST #3 LOT 120	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134121	PETRIFIED FOREST EST #3 LOT 121	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134122	PETRIFIED FOREST EST #3 LOT 122	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134127	PETRIFIED FOREST EST #3 LOT 127	METZGUER JOSEPH C	\$ 1,091.48	1.16	\$ 592.00	\$ 59.20
21134128	PETRIFIED FOREST EST #3 LOT 128	METZGUER JOSEPH C	\$ 1,091.48	1.16	\$ 592.00	\$ 59.20
21134129	PETRIFIED FOREST EST #3 LOT 129	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134130	PETRIFIED FOREST EST #3 LOT 130	BARRETT TOM	\$ 1,074.50	1.16	\$ 592.00	\$ 59.20
21134131	PETRIFIED FOREST EST #3 LOT 131	QUILTY BRIAN	\$ 1,038.83	1.16	\$ 592.00	\$ 59.20
21134134	PETRIFIED FOREST EST #3 LOT 134	MOBILE WORLD	\$ 705.28	1.16	\$ 592.00	\$ 59.20
21134135	PETRIFIED FOREST EST #3 LOT 135	MOBILE WORLD	\$ 705.28	1.16	\$ 592.00	\$ 59.20
21134136	PETRIFIED FOREST EST #3 LOT 136	MOBILE WORLD	\$ 705.28	1.16	\$ 592.00	\$ 59.20
21134137	PETRIFIED FOREST EST #3 LOT 137	MOBILE WORLD	\$ 705.28	1.16	\$ 592.00	\$ 59.20
21134138	PETRIFIED FOREST EST #3 LOT 138	QUILTY BRIAN	\$ 1,088.28	1.16	\$ 592.00	\$ 59.20
21134147	PETRIFIED FOREST EST #3 LOT 147	ALCO INDUSTRIES, INC	\$ 593.12	1.16	\$ 592.00	\$ 59.20
21134150	PETRIFIED FOREST EST #3 LOT 150	CALLERI MICHAEL OR RAMONA	\$ 1,236.51	1.16	\$ 592.00	\$ 59.20
21134159	PETRIFIED FOREST EST #3 LOT 159	METZGUER JOSEPH C	\$ 1,024.97	1.16	\$ 592.00	\$ 59.20
21134162	PETRIFIED FOREST EST #3 LOT 162	ALCO INDUSTRIES, INC	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134167	PETRIFIED FOREST EST #3 LOT 167	DANNER ELMER G AND LENA C	\$ 788.17	2.3	\$ 1,173.00	\$ 117.30
21134168	PETRIFIED FOREST EST #3 LOT 168	DANNER ELMER G AND LENA C	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134169	PETRIFIED FOREST EST #3 LOT 169	DANNER ELMER G AND LENA C	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134170	PETRIFIED FOREST EST #3 LOT 170	DANNER ELMER G AND LENA C	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134176	PETRIFIED FOREST EST #3 LOT 176	METZGUER JOSEPH C	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134177	PETRIFIED FOREST EST #3 LOT 177	METZGUER JOSEPH C	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134181	PETRIFIED FOREST EST #3 LOT 181	METZGUER JOSEPH C	\$ 1,081.54	1.16	\$ 592.00	\$ 59.20
21134182	PETRIFIED FOREST EST #3 LOT 182	METZGUER JOSEPH C	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134183	PETRIFIED FOREST EST #3 LOT 183	METZGUER JOSEPH C	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134184	PETRIFIED FOREST EST #3 LOT 184	METZGUER JOSEPH C	\$ 1,809.04	1.99	\$ 1,015.00	\$ 101.50
21134185	PETRIFIED FOREST EST #3 LOT 185	MIKESKA ISABEL DANA	\$ 1,092.24	1.96	\$ 1,000.00	\$ 100.00
21134272	PETRIFIED FOREST EST #3 LOT 272	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134273	PETRIFIED FOREST EST #3 LOT 273	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134274	PETRIFIED FOREST EST #3 LOT 274	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134275	PETRIFIED FOREST EST #3 LOT 275	TOM BARRETT	\$ 1,278.22	1.35	\$ 689.00	\$ 68.90
21134278	PETRIFIED FOREST EST #3 LOT 278	CAPITAL COMMERCIAL CORP	\$ 1,257.84	1.15	\$ 587.00	\$ 58.70
21134279	PETRIFIED FOREST EST #3 LOT 279	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21134280	PETRIFIED FOREST EST #3 LOT 280	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21134281	PETRIFIED FOREST EST #3 LOT 281	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21134282	PETRIFIED FOREST EST #3 LOT 282	CAPITAL COMMERCIAL CORP	\$ 1,127.02	1.15	\$ 587.00	\$ 58.70
21134283	PETRIFIED FOREST EST #3 LOT 283	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134285	PETRIFIED FOREST EST #3 LOT 285	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134286	PETRIFIED FOREST EST #3 LOT 286	BARRETT TOM	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21134287	PETRIFIED FOREST EST #3 LOT 287	BARRETT TOM	\$ 1,099.60	1.15	\$ 587.00	\$ 58.70
21134288	PETRIFIED FOREST EST #3 LOT 288	BREWER JOHN H & EVELYN JT	\$ 637.34	1.15	\$ 587.00	\$ 58.70
21134289	PETRIFIED FOREST EST #3 LOT 289	BARRETT TOM	\$ 1,791.43	2.3	\$ 1,173.00	\$ 117.30
21134290	PETRIFIED FOREST EST #3 LOT 290	PRESCOTT VALLEY INC	\$ 1,919.96	2.31	\$ 1,178.00	\$ 117.80
21134291	PETRIFIED FOREST EST #3 LOT 291	PRESCOTT VALLEY INC	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21134292	PETRIFIED FOREST EST #3 LOT 292	PRESCOTT VALLEY INC	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21134293	PETRIFIED FOREST EST #3 LOT 293	PYRAMID PLANNERS ASSUR CO	\$ 1,161.04	1.15	\$ 587.00	\$ 58.70
21134294	PETRIFIED FOREST EST #3 LOT 294	CAPITAL COMMERCIAL CORP	\$ 1,205.55	1.15	\$ 587.00	\$ 58.70
21134295	PETRIFIED FOREST EST #3 LOT 295	CAPITAL COMMERCIAL CORP	\$ 1,205.55	1.15	\$ 587.00	\$ 58.70
21134296	PETRIFIED FOREST EST #3 LOT 296	CAPITAL COMMERCIAL CORP	\$ 1,205.55	1.15	\$ 587.00	\$ 58.70
21134297	PETRIFIED FOREST EST #3 LOT 297	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134298	PETRIFIED FOREST EST #3 LOT 298	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134299	PETRIFIED FOREST EST #3 LOT 299	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134300	PETRIFIED FOREST EST #3 LOT 300	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134301	PETRIFIED FOREST EST #3 LOT 301	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134302	PETRIFIED FOREST EST #3 LOT 302	CAPITAL COMMERCIAL CORP	\$ 1,137.31	1.15	\$ 587.00	\$ 58.70
21134303	PETRIFIED FOREST EST #3 LOT 303	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.15	\$ 587.00	\$ 58.70
21134304	PETRIFIED FOREST EST #3 LOT 304	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70
21134305	PETRIFIED FOREST EST #3 LOT 305	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.15	\$ 587.00	\$ 58.70

21134306	PETRIFIED FOREST EST #3 LOT 306	CAPITAL COMMERCIAL CORP	\$ 1,818.42	1.93	\$ 984.00	\$ 98.40
21134307	PETRIFIED FOREST EST #3 LOT 307	CAPITAL COMMERCIAL CORP	\$ 1,818.42	1.94	\$ 989.00	\$ 98.90
21134308	PETRIFIED FOREST EST #3 LOT 308	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134309	PETRIFIED FOREST EST #3 LOT 309	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134310	PETRIFIED FOREST EST #3 LOT 310	CAPITAL COMMERCIAL CORP	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134311	PETRIFIED FOREST EST #3 LOT 311	CAPITAL COMMERCIAL CORP	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134312	PETRIFIED FOREST EST #3 LOT 312	CAPITAL COMMERCIAL CORP	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134313	PETRIFIED FOREST EST #3 LOT 313	CAPITAL COMMERCIAL CORP	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134314	PETRIFIED FOREST EST #3 LOT 314	CAPITAL COMMERCIAL CORP	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134315	PETRIFIED FOREST EST #3 LOT 315	CAPITAL COMMERCIAL CORP	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134316	PETRIFIED FOREST EST #3 LOT 316	CAPITAL COMMERCIAL CORP	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134317	PETRIFIED FOREST EST #3 LOT 317	CAPITAL COMMERCIAL CORP	\$ 1,167.73	1.16	\$ 592.00	\$ 59.20
21134318	PETRIFIED FOREST EST #3 LOT 318	CAPITAL COMMERCIAL CORP	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134319	PETRIFIED FOREST EST #3 LOT 319	CAPITAL COMMERCIAL CORP	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134321	PETRIFIED FOREST EST #3 LOT 321	CAPITAL COMMERCIAL CORP	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21134322	PETRIFIED FOREST EST #3 LOT 322	CAPITAL COMMERCIAL CORP	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21134323	PETRIFIED FOREST EST #3 LOT 323	CAPITAL COMMERCIAL CORP	\$ 878.27	1.16	\$ 592.00	\$ 59.20
21134324	PETRIFIED FOREST EST #3 LOT 324	CAPITAL COMMERCIAL CORP	\$ 1,394.81	2.36	\$ 1,204.00	\$ 120.40
21134325	PETRIFIED FOREST EST #3 LOT 325	BARRETT TOM	\$ 1,791.43	2.3	\$ 1,173.00	\$ 117.30
21134326	PETRIFIED FOREST EST #3 LOT 326	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134327	PETRIFIED FOREST EST #3 LOT 327	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134328	PETRIFIED FOREST EST #3 LOT 328	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134330	PETRIFIED FOREST EST #3 LOT 330	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134331	PETRIFIED FOREST EST #3 LOT 331	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134332	PETRIFIED FOREST EST #3 LOT 332	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134333	PETRIFIED FOREST EST #3 LOT 333	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134334	PETRIFIED FOREST EST #3 LOT 334	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134336	PETRIFIED FOREST EST #3 LOT 336	BECH CARL A AND COLLEEN M	\$ 669.74	1.16	\$ 592.00	\$ 59.20
21134337	PETRIFIED FOREST EST #3 LOT 337	BARRETT TOM	\$ 1,386.08	1.88	\$ 959.00	\$ 95.90
21134338	PETRIFIED FOREST EST #3 LOT 338	BARRETT TOM	\$ 1,714.03	2.13	\$ 1,086.00	\$ 108.60
21134339	PETRIFIED FOREST EST #3 LOT 339	MARLEY ROBERT C AND JUANITA	\$ 706.28	1.16	\$ 592.00	\$ 59.20
21134341	PETRIFIED FOREST EST #3 LOT 341	BOARDMAN MARCELLUS C AND BONNIE L	\$ 569.56	1.16	\$ 592.00	\$ 59.20
21134342	PETRIFIED FOREST EST #3 LOT 342	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134343	PETRIFIED FOREST EST #3 LOT 343	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134344	PETRIFIED FOREST EST #3 LOT 344	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134345	PETRIFIED FOREST EST #3 LOT 345	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134346	PETRIFIED FOREST EST #3 LOT 346	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134347	PETRIFIED FOREST EST #3 LOT 347	CAPITAL COMMERCIAL CORP	\$ 1,189.60	1.16	\$ 592.00	\$ 59.20
21134348	PETRIFIED FOREST EST #3 LOT 348	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134349	PETRIFIED FOREST EST #3 LOT 349	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134350	PETRIFIED FOREST EST #3 LOT 350	BARRETT TOM	\$ 2,090.15	3.5	\$ 1,785.00	\$ 178.50
21134351	PETRIFIED FOREST EST #3 LOT 351	BARRETT TOM	\$ 2,105.93	2.36	\$ 1,204.00	\$ 120.40
21134352	PETRIFIED FOREST EST #3 LOT 352	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134353	PETRIFIED FOREST EST #3 LOT 353	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134354	PETRIFIED FOREST EST #3 LOT 354	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134355	PETRIFIED FOREST EST #3 LOT 355	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134356	PETRIFIED FOREST EST #3 LOT 356	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134357	PETRIFIED FOREST EST #3 LOT 357	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134358	PETRIFIED FOREST EST #3 LOT 358	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134359	PETRIFIED FOREST EST #3 LOT 359	BARRETT TOM	\$ 338.20	1.16	\$ 592.00	\$ 59.20
21134360	PETRIFIED FOREST EST #3 LOT 360	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134361	PETRIFIED FOREST EST #3 LOT 361	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134362	PETRIFIED FOREST EST #3 LOT 362	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134363	PETRIFIED FOREST EST #3 LOT 363	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134364	PETRIFIED FOREST EST #3 LOT 364	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134365	PETRIFIED FOREST EST #3 LOT 365	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134366	PETRIFIED FOREST EST #3 LOT 366	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134367	PETRIFIED FOREST EST #3 LOT 367	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134370	PETRIFIED FOREST EST #3 LOT 370	CUTTRIGHT DONALD E AND ANNA M	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21134371	PETRIFIED FOREST EST #3 LOT 371	CUTTRIGHT DONALD E AND ANNA M	\$ 754.22	1.16	\$ 592.00	\$ 59.20
21134372	PETRIFIED FOREST EST #3 LOT 372	CUTTRIGHT DONALD E AND ANNA M	\$ 730.88	1.16	\$ 592.00	\$ 59.20
21134375	PETRIFIED FOREST EST #3 LOT 375	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134376	PETRIFIED FOREST EST #3 LOT 376	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134377	PETRIFIED FOREST EST #3 LOT 377	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134378	PETRIFIED FOREST EST #3 LOT 378	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134379	PETRIFIED FOREST EST #3 LOT 379	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134380	PETRIFIED FOREST EST #3 LOT 380	FRASER HELEN P	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134381	PETRIFIED FOREST EST #3 LOT 381	FRASER HELEN P	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134382	PETRIFIED FOREST EST #3 LOT 382	FRASER HELEN P	\$ 533.52	1.16	\$ 592.00	\$ 59.20
21134383	PETRIFIED FOREST EST #3 LOT 383	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134384	PETRIFIED FOREST EST #3 LOT 384	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134385	PETRIFIED FOREST EST #3 LOT 385	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20

21134386	PETRIFIED FOREST EST #3 LOT 386	BARRETT TOM	\$ 1,769.56	2.36	\$ 1,204.00	\$ 120.40
21134387	PETRIFIED FOREST EST #3 LOT 387	BARRETT TOM	\$ 1,777.23	2.27	\$ 1,158.00	\$ 115.80
21134388	PETRIFIED FOREST EST #3 LOT 388	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134389	PETRIFIED FOREST EST #3 LOT 389	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134390	PETRIFIED FOREST EST #3 LOT 390	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134391	PETRIFIED FOREST EST #3 LOT 391	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134392	PETRIFIED FOREST EST #3 LOT 392	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134393	PETRIFIED FOREST EST #3 LOT 393	BARRETT TOM	\$ 1,235.97	1.16	\$ 592.00	\$ 59.20
21134394	PETRIFIED FOREST EST #3 LOT 394	ARNOLD JEFFREY DEAN	\$ 837.58	1.16	\$ 592.00	\$ 59.20
21134395	PETRIFIED FOREST EST #3 LOT 395	ARNOLD JEFFREY DEAN	\$ 837.58	1.16	\$ 592.00	\$ 59.20
21134401	PETRIFIED FOREST EST #3 LOT 401	BARRETT TOM	\$ 1,248.57	1.49	\$ 760.00	\$ 76.00
21134402	PETRIFIED FOREST EST #3 LOT 402	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134403	PETRIFIED FOREST EST #3 LOT 403	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134404	PETRIFIED FOREST EST #3 LOT 404	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134405	PETRIFIED FOREST EST #3 LOT 405	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134407	PETRIFIED FOREST EST #3 LOT 407	RUSINEK ARTHUR RICHARD	\$ 363.48	1.16	\$ 592.00	\$ 59.20
21134408	PETRIFIED FOREST EST #3 LOT 408	RUSINEK ARTHUR RICHARD	\$ 363.48	1.16	\$ 592.00	\$ 59.20
21134409	PETRIFIED FOREST EST #3 LOT 409	RUSINEK ARTHUR RICHARD	\$ 363.48	1.16	\$ 592.00	\$ 59.20
21134410	PETRIFIED FOREST EST #3 LOT 410	RUSINEK ARTHUR RICHARD	\$ 363.48	1.16	\$ 592.00	\$ 59.20
21134411	PETRIFIED FOREST EST #3 LOT 411	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134412	PETRIFIED FOREST EST #3 LOT 412	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134413	PETRIFIED FOREST EST #3 LOT 413	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134415	PETRIFIED FOREST EST #3 LOT 415	BARRETT TOM	\$ 1,805.78	2.38	\$ 1,214.00	\$ 121.40
21134416	PETRIFIED FOREST EST #3 LOT 416	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134417	PETRIFIED FOREST EST #3 LOT 417	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134418	PETRIFIED FOREST EST #3 LOT 418	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134420	PETRIFIED FOREST EST #3 LOT 420	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134421	PETRIFIED FOREST EST #3 LOT 421	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134423	PETRIFIED FOREST EST #3 LOT 423	FRASER HELEN P	\$ 435.28	1.16	\$ 592.00	\$ 59.20
21134429	PETRIFIED FOREST EST #3 LOT 429	BARRETT TOM	\$ 1,069.18	1.16	\$ 592.00	\$ 59.20
21134430	PETRIFIED FOREST EST #3 LOT 430	TOM BARRETT, TRUSTEE FOR ALCO INDUSTRIES, INC. & ARIZONA LAND CORPORATION	\$ 1,069.18	1.16	\$ 592.00	\$ 59.20
21134431	PETRIFIED FOREST EST #3 LOT 431	BARRETT TOM	\$ 1,069.18	1.16	\$ 592.00	\$ 59.20
21134432	PETRIFIED FOREST EST #3 LOT 432	BARRETT TOM	\$ 1,345.38	1.93	\$ 984.00	\$ 98.40
21134433	PETRIFIED FOREST EST #3 LOT 433	BARRETT TOM	\$ 1,393.34	1.92	\$ 979.00	\$ 97.90
21134434	PETRIFIED FOREST EST #3 LOT 434	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134435	PETRIFIED FOREST EST #3 LOT 435	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134436	PETRIFIED FOREST EST #3 LOT 436	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134437	PETRIFIED FOREST EST #3 LOT 437	BARRETT TOM	\$ 1,149.41	1.16	\$ 592.00	\$ 59.20
21134438	PETRIFIED FOREST EST #3 LOT 438	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134439	PETRIFIED FOREST EST #3 LOT 439	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134440	PETRIFIED FOREST EST #3 LOT 440	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134441	PETRIFIED FOREST EST #3 LOT 441	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134443	PETRIFIED FOREST EST #3 LOT 443	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134444	PETRIFIED FOREST EST #3 LOT 444	BARRETT TOM	\$ 991.54	1.16	\$ 592.00	\$ 59.20
21134445	PETRIFIED FOREST EST #3 LOT 445	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134446	PETRIFIED FOREST EST #3 LOT 446	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134447	PETRIFIED FOREST EST #3 LOT 447	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134448	PETRIFIED FOREST EST #3 LOT 448	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134449	PETRIFIED FOREST EST #3 LOT 449	BARRETT TOM	\$ 1,077.73	1.16	\$ 592.00	\$ 59.20
21134450	PETRIFIED FOREST EST #3 LOT 450	BARRETT TOM	\$ 1,783.91	2.4	\$ 1,224.00	\$ 122.40
21134451	PETRIFIED FOREST EST #3 LOT 451	BARRETT TOM	\$ 1,777.23	2.25	\$ 1,148.00	\$ 114.80
21134452	PETRIFIED FOREST EST #3 LOT 452	BARRETT TOM	\$ 1,099.60	1.16	\$ 592.00	\$ 59.20
21134453	PETRIFIED FOREST EST #3 LOT 453	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134454	PETRIFIED FOREST EST #3 LOT 454	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134455	PETRIFIED FOREST EST #3 LOT 455	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134456	PETRIFIED FOREST EST #3 LOT 456	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134457	PETRIFIED FOREST EST #3 LOT 457	BARRETT TOM	\$ 1,179.31	1.16	\$ 592.00	\$ 59.20
21134458	PETRIFIED FOREST EST #3 LOT 458	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134462	PETRIFIED FOREST EST #3 LOT 462	BARRETT TOM	\$ 1,257.84	1.16	\$ 592.00	\$ 59.20
21134463	PETRIFIED FOREST EST #3 LOT 463	BARRETT TOM	\$ 1,127.02	1.16	\$ 592.00	\$ 59.20
21134466	PETRIFIED FOREST EST #3 LOT 466	BARRETT TOM	\$ 1,250.80	1.46	\$ 745.00	\$ 74.50
21134467	PETRIFIED FOREST EST #3 LOT 467	LAUER FRANK FRED AND JOANN	\$ 733.20	1.45	\$ 740.00	\$ 74.00
21134468	PETRIFIED FOREST EST #3 LOT 468	BARRETT TOM	\$ 1,281.86	1.44	\$ 734.00	\$ 73.40
21134469	PETRIFIED FOREST EST #3 LOT 469	BARRETT TOM	\$ 1,281.86	1.43	\$ 729.00	\$ 72.90
21134470	PETRIFIED FOREST EST #3 LOT 470	BARRETT TOM	\$ 1,214.74	1.42	\$ 724.00	\$ 72.40
21134471	PETRIFIED FOREST EST #3 LOT 471	BARRETT TOM	\$ 1,236.61	1.41	\$ 719.00	\$ 71.90
21134472	PETRIFIED FOREST EST #3 LOT 472	BARRETT TOM	\$ 1,210.09	1.4	\$ 714.00	\$ 71.40
21134473	PETRIFIED FOREST EST #3 LOT 473	BARRETT TOM	\$ 1,243.41	1.39	\$ 709.00	\$ 70.90
21134474	PETRIFIED FOREST EST #3 LOT 474	THE EDLAND CORPORATION	\$ 358.14	1.38	\$ 704.00	\$ 70.40
21134475	PETRIFIED FOREST EST #3 LOT 475	THE EDLAND CORPORATION	\$ 358.14	1.37	\$ 699.00	\$ 69.90
21134476	PETRIFIED FOREST EST #3 LOT 476	THE EDLAND CORPORATION	\$ 358.14	1.36	\$ 694.00	\$ 69.40
21134477	PETRIFIED FOREST EST #3 LOT 477	THE EDLAND CORPORATION	\$ 358.14	1.35	\$ 689.00	\$ 68.90

21134478	PETRIFIED FOREST EST #3 LOT 478	BARRETT TOM	\$ 1,869.03	2.58	\$ 1,316.00	\$ 131.60
21134479	PETRIFIED FOREST EST #3 LOT 479	CLEVELAND LISA ANN	\$ 1,673.01	2.73	\$ 1,392.00	\$ 139.20
21134480	PETRIFIED FOREST EST #3 LOT 480	CLEVELAND LISA ANN	\$ 975.07	1.3	\$ 663.00	\$ 66.30
21134481	PETRIFIED FOREST EST #3 LOT 481	CLEVELAND LISA ANN	\$ 1,004.13	1.29	\$ 658.00	\$ 65.80
21134482	PETRIFIED FOREST EST #3 LOT 482	BARRETT TOM	\$ 1,253.20	1.28	\$ 653.00	\$ 65.30
21134483	PETRIFIED FOREST EST #3 LOT 483	BARRETT TOM	\$ 1,135.15	1.27	\$ 648.00	\$ 64.80
21134484	PETRIFIED FOREST EST #3 LOT 484	BARRETT TOM	\$ 1,135.15	1.26	\$ 643.00	\$ 64.30
21134485	PETRIFIED FOREST EST #3 LOT 485	BARRETT TOM	\$ 1,135.15	1.25	\$ 638.00	\$ 63.80
21134486	PETRIFIED FOREST EST #3 LOT 486	BARRETT TOM	\$ 1,113.28	1.25	\$ 638.00	\$ 63.80
21134487	PETRIFIED FOREST EST #3 LOT 487	BARRETT TOM	\$ 1,106.27	1.23	\$ 627.00	\$ 62.70
21134488	PETRIFIED FOREST EST #3 LOT 488	BARRETT TOM	\$ 1,106.27	1.22	\$ 622.00	\$ 62.20
21134489	PETRIFIED FOREST EST #3 LOT 489	BARRETT TOM	\$ 1,099.17	1.21	\$ 617.00	\$ 61.70
21134490	PETRIFIED FOREST EST #3 LOT 490	CLEVELAND ROBERT E AND EUZABETH J	\$ 1,205.55	1.2	\$ 612.00	\$ 61.20
21134491	PETRIFIED FOREST EST #3 LOT 491	BARRETT TOM	\$ 1,099.60	1.19	\$ 607.00	\$ 60.70
21134492	PETRIFIED FOREST EST #3 LOT 492	BARRETT TOM	\$ 1,099.60	1.18	\$ 602.00	\$ 60.20
21134493	PETRIFIED FOREST EST #3 LOT 493	THE EDLAND CORP, LAGAMCO INC	\$ 1,024.97	1.17	\$ 597.00	\$ 59.70
21134494	PETRIFIED FOREST EST #3 LOT 494	THE EDLAND CORP, LAGAMCO INC	\$ 1,024.97	1.16	\$ 592.00	\$ 59.20
21134495	PETRIFIED FOREST EST #3 LOT 495	THE EDLAND CORP, LAGAMCO INC	\$ 1,024.97	1.15	\$ 587.00	\$ 58.70
21134496	PETRIFIED FOREST EST #3 LOT 496	THE EDLAND CORP, LAGAMCO INC	\$ 1,282.20	1.88	\$ 959.00	\$ 95.90
21134498	PETRIFIED FOREST EST #3 LOT 498	BARRETT TOM	\$ 1,078.96	1.28	\$ 653.00	\$ 65.30
21135001	PETRIFIED FOREST EST #4 LOT 1	ALCO INDUSTRIES INC	\$ 1,035.92	1.54	\$ 785.00	\$ 78.50
21135002	PETRIFIED FOREST EST #4 LOT 2	ALCO INDUSTRIES INC	\$ 1,185.19	1.06	\$ 541.00	\$ 54.10
21135003	PETRIFIED FOREST EST #4 LOT 3	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135004	PETRIFIED FOREST EST #4 LOT 4	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135005	PETRIFIED FOREST EST #4 LOT 5	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135006	PETRIFIED FOREST EST #4 LOT 6	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135007	PETRIFIED FOREST EST #4 LOT 7	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135008	PETRIFIED FOREST EST #4 LOT 8	ALCO INDUSTRIES INC	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135009	PETRIFIED FOREST EST #4 LOT 9	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135010	PETRIFIED FOREST EST #4 LOT 10	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135011	PETRIFIED FOREST EST #4 LOT 11	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135012	PETRIFIED FOREST EST #4 LOT 12	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135013	PETRIFIED FOREST EST #4 LOT 13	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135014	PETRIFIED FOREST EST #4 LOT 14	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135015	PETRIFIED FOREST EST #4 LOT 15	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135016	PETRIFIED FOREST EST #4 LOT 16	ALCO INDUSTRIES	\$ 1,459.64	2.63	\$ 1,341.00	\$ 134.10
21135017	PETRIFIED FOREST EST #4 LOT 17	ALCO INDUSTRIES	\$ 1,459.64	2.42	\$ 1,234.00	\$ 123.40
21135018	PETRIFIED FOREST EST #4 LOT 18	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135019	PETRIFIED FOREST EST #4 LOT 19	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135020	PETRIFIED FOREST EST #4 LOT 20	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135021	PETRIFIED FOREST EST #4 LOT 21	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135022	PETRIFIED FOREST EST #4 LOT 22	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135023	PETRIFIED FOREST EST #4 LOT 23	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135024	PETRIFIED FOREST EST #4 LOT 24	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135025	PETRIFIED FOREST EST #4 LOT 25	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135026	PETRIFIED FOREST EST #4 LOT 26	ALCO INDUSTRIES	\$ 1,053.32	1.06	\$ 541.00	\$ 54.10
21135027	PETRIFIED FOREST EST #4 LOT 27	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135028	PETRIFIED FOREST EST #4 LOT 28	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135029	PETRIFIED FOREST EST #4 LOT 29	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135030	PETRIFIED FOREST EST #4 LOT 30	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135031	PETRIFIED FOREST EST #4 LOT 31	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135032	PETRIFIED FOREST EST #4 LOT 32	ALCO INDUSTRIES	\$ 1,244.69	1.8	\$ 918.00	\$ 91.80
21135033	PETRIFIED FOREST EST #4 LOT 33	ALCO INDUSTRIES	\$ 1,244.69	1.76	\$ 898.00	\$ 89.80
21135034	PETRIFIED FOREST EST #4 LOT 34	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135035	PETRIFIED FOREST EST #4 LOT 35	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135036	PETRIFIED FOREST EST #4 LOT 36	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135037	PETRIFIED FOREST EST #4 LOT 37	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135038	PETRIFIED FOREST EST #4 LOT 38	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135038	PETRIFIED FOREST EST #4 LOT 39	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135040	PETRIFIED FOREST EST #4 LOT 40	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135041	PETRIFIED FOREST EST #4 LOT 41	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135042	PETRIFIED FOREST EST #4 LOT 42	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135043	PETRIFIED FOREST EST #4 LOT 43	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135044	PETRIFIED FOREST EST #4 LOT 44	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135045	PETRIFIED FOREST EST #4 LOT 45	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135046	PETRIFIED FOREST EST #4 LOT 46	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135047	PETRIFIED FOREST EST #4 LOT 47	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135048	PETRIFIED FOREST EST #4 LOT 48	ALCO INDUSTRIES	\$ 1,459.64	2.19	\$ 1,117.00	\$ 111.70
21135049	PETRIFIED FOREST EST #4 LOT 49	ALCO INDUSTRIES	\$ 1,459.64	1.96	\$ 1,000.00	\$ 100.00
21135050	PETRIFIED FOREST EST #4 LOT 50	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135051	PETRIFIED FOREST EST #4 LOT 51	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10
21135052	PETRIFIED FOREST EST #4 LOT 52	ALCO INDUSTRIES	\$ 1,035.92	1.06	\$ 541.00	\$ 54.10











21135414	PETRIFIED FOREST EST #4 LOT 414	ALCO INDUSTRIES	\$ 1,009.34	1.36	\$ 694.00	\$ 69.40
21135415	PETRIFIED FOREST EST #4 LOT 415	ALCO INDUSTRIES	\$ 1,088.36	1.06	\$ 541.00	\$ 54.10
21135416	PETRIFIED FOREST EST #4 LOT 416	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135417	PETRIFIED FOREST EST #4 LOT 417	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135418	PETRIFIED FOREST EST #4 LOT 418	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135419	PETRIFIED FOREST EST #4 LOT 419	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135420	PETRIFIED FOREST EST #4 LOT 420	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135421	PETRIFIED FOREST EST #4 LOT 421	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135422	PETRIFIED FOREST EST #4 LOT 422	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135423	PETRIFIED FOREST EST #4 LOT 423	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135424	PETRIFIED FOREST EST #4 LOT 424	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135425	PETRIFIED FOREST EST #4 LOT 425	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135426	PETRIFIED FOREST EST #4 LOT 426	ALCO INDUSTRIES	\$ 1,009.34	1.04	\$ 530.00	\$ 53.00
21135427	PETRIFIED FOREST EST #4 LOT 427	ALCO INDUSTRIES	\$ 1,009.34	1.02	\$ 520.00	\$ 52.00
21135428	PETRIFIED FOREST EST #4 LOT 428	ALCO INDUSTRIES	\$ 1,009.34	1.02	\$ 520.00	\$ 52.00
21135429	PETRIFIED FOREST EST #4 LOT 429	ALCO INDUSTRIES	\$ 1,009.34	1.02	\$ 520.00	\$ 52.00
21135430	PETRIFIED FOREST EST #4 LOT 430	ALCO INDUSTRIES	\$ 1,009.34	1.02	\$ 520.00	\$ 52.00
21135431	PETRIFIED FOREST EST #4 LOT 431	ALCO INDUSTRIES	\$ 1,009.34	1.02	\$ 520.00	\$ 52.00
21209010	N2 S2 SW4 SEC 11 T13N R26E	MINNESOTA TITLE CO	\$ 5,597.31	40	\$ 12,800.00	\$ 1,280.00
21211011	S2 S2 SE4 SEC 15 T13N R26E	WYATT ALBERT AND SARAH	\$ 7,891.39	40	\$ 12,800.00	\$ 1,280.00
21225015	CONCHO PARK ESTATES #1 LOT 15	ENGLEMAN ROBERT AND LILLIAN E	\$ 7,032.71	0.69	\$ 3,200.00	\$ 320.00
21225039	CONCHO PARK ESTATES #1 LOT 39	CONTINENTAL SERVICE CORP	\$ 5,924.35	0.75	\$ 3,200.00	\$ 320.00
21225043	CONCHO PARK ESTATES #1 LOT 43	CONTINENTAL SERVICE CORP	\$ 5,802.41	0.75	\$ 3,200.00	\$ 320.00
21225106	CONCHO PARK ESTATES #1 LOT 106	CONTINENTAL SERVICE CORP	\$ 4,815.36	1.04	\$ 3,200.00	\$ 320.00
21225137	CONCHO PARK ESTATES #1 LOT 137	CONTINENTAL SERVICE CORP	\$ 22,286.29	1.04	\$ 3,200.00	\$ 320.00
21225139	CONCHO PARK ESTATES #1 LOT 139	CONTINENTAL SERVICE CORP	\$ 21,220.25	1.04	\$ 3,200.00	\$ 320.00
21225140	CONCHO PARK ESTATES #1 LOT 140	CONTINENTAL SERVICE CORP	\$ 24,035.66	1.04	\$ 3,200.00	\$ 320.00
21225141	CONCHO PARK ESTATES #1 LOT 141	CONTINENTAL SERVICE CORP	\$ 23,034.88	1.04	\$ 3,200.00	\$ 320.00
21225143	CONCHO PARK ESTATES #1 LOT 143	CONTINENTAL SERVICE CORP	\$ 7,687.25	1.04	\$ 3,200.00	\$ 320.00
21225172	CONCHO PARK ESTATES #1 LOT 172	CONTINENTAL SERVICE CORP	\$ 21,839.97	0.51	\$ 3,200.00	\$ 320.00
21225174	CONCHO PARK ESTATES #1 LOT 174	CONTINENTAL SERVICE CORP	\$ 21,804.48	0.49	\$ 3,200.00	\$ 320.00
21225179	CONCHO PARK ESTATES #1 LOT 179	AMCA, INC	\$ 7,172.73	0.51	\$ 3,200.00	\$ 320.00
21225184	CONCHO PARK ESTATES #1 LOT 184	CONTINENTAL SERVICE CORP	\$ 21,841.37	0.51	\$ 3,200.00	\$ 320.00
21225188	CONCHO PARK ESTATES #1 LOT 188	CONTINENTAL SERVICE CORP	\$ 21,841.37	0.51	\$ 3,200.00	\$ 320.00
21225189	CONCHO PARK ESTATES #1 LOT 189	CONTINENTAL SERVICE CORP	\$ 21,841.37	0.51	\$ 3,200.00	\$ 320.00
21225207	CONCHO PARK ESTATES #1 LOT 207	CONTINENTAL SERVICE CORP	\$ 7,074.99	0.51	\$ 3,200.00	\$ 320.00
21225224	CONCHO PARK ESTATES #1 LOT 224	HOLLAND CHARLES F AND DEMARISE J	\$ 15,579.23	0.51	\$ 3,200.00	\$ 320.00
21225231	CONCHO PARK ESTATES #1 LOT 231	CONTINENTAL SERVICE CORP	\$ 5,465.94	0.51	\$ 3,200.00	\$ 320.00
21225253	CONCHO PARK ESTATES #1 LOT 253	CONTINENTAL DEVELOPMENT COMPANY	\$ 7,177.95	0.56	\$ 3,200.00	\$ 320.00
21225346	CONCHO PARK ESTATES #1 LOT 346	CONTINENTAL DEVELOPMENT COMPANY	\$ 7,196.01	0.52	\$ 3,200.00	\$ 320.00
21225635	CONCHO PARK ESTATES #1 LOT 635	MCCORKLE CAROL LYNN	\$ 5,994.79	1.04	\$ 3,200.00	\$ 320.00
102-43-004F	Section: 29 Township: 7 Range: 30 SEC 29 T7N R30E BEG SE COR OF W2 OF NW4 OF SW4 N 95.88; SW 306.05; S 30; SW 80	Unknown	\$ 1,842.22	0.52	\$ 10,776.00	\$ 1,077.60
					\$ 110,416.00	\$ 11,041.60

Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager

Date/Signature:



Describe in detail what you want to say to the Board and what action you want the Board to take:

Notification of a tour of the Tucson Electric Power Plant, 1200 County Road #4162, Springerville, Arizona, following the Board meeting at approximately 10:30 a.m. on October 17, 2017. The County Supervisors Association Summit to be held at the Talking Stick Resort, 9800 E. Talking Stick Way, Scottsdale, Arizona on October 24, 2017 through October 26, 2017, and the Northern Arizona Council of Governments (NACOG) meeting on October 26, 2017 at 9:00 a.m. at the High Country Conference Center, 201 West Butler Avenue, Flagstaff, Arizona where two or more members of the Board of Supervisors may be in attendance.

BOS Meeting Date Requested

PRE-AGENDA ITEM REVIEW

Legal Review:

Signature

Finance Review:

Signature

Human Resources Review:


Signature

Other Review:

Signature

Reviews completed, item approved for Agenda.

Board Clerk's Initials



Apache County Board of Supervisors  
AGENDA ITEM REVIEW FORM

date/time stamp

Submitter's Name: (Individual, Organization, or County Department)

County Manager \_\_\_\_\_

Date/Signature: \_\_\_\_\_



Describe in detail what you want to say to the Board and what action you want the Board to take:

Call to the Public: Individuals may address the Board on any relevant issue for an amount of time determined by the Chairman. At the close of the call to the public, Board members may not respond to any comments but may respond to criticism, ask staff to review a matter, or ask that a matter be placed on a future agenda.

BOS Meeting Date Requested \_\_\_\_\_

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PRE-AGENDA ITEM REVIEW

Legal Review: \_\_\_\_\_

Signature \_\_\_\_\_

Finance Review: \_\_\_\_\_

Signature \_\_\_\_\_

Human Resources Review: \_\_\_\_\_

Signature \_\_\_\_\_

Other Review: \_\_\_\_\_

Signature \_\_\_\_\_

Reviews completed, item approved for Agenda.

Board Clerk's Initials \_\_\_\_\_

