

PALM VALLEY ELEMENTARY SCHOOL

COOLING TOWER REPLACEMENT

2801 NORTH 135TH AVENUE - GOODYEAR, AZ 85395

PROJECT DIRECTORY:

OWNER: LITCHFIELD ELEMENTARY SCHOOL DISTRICT
18421 WEST THOMAS ROAD, BLDG D
BUCKEYE, ARIZONA 85340
CONTACT: DAN ENSIGN - (623)-547-1590

MECHANICAL & ELECTRICAL ENGINEERS: PEARSON ENGINEERING ASSOCIATES, INC.
8825 N. 23RD AVENUE
PHOENIX, ARIZONA 85021
PHONE: (602) 264-0807
FAX: (602) 214-7542
CONTACT:
MECHANICAL: BOB WILCOXSON P.E.
ELECTRICAL: ROB NEWTON

STRUCTURAL ENGINEERS: CARUSO TURLEY SCOTT STRUCTURAL ENGINEERS
1215 W RIO SALADO PKWY, SUITE 200
TEMPE, ARIZONA 85281
PHONE (480) 714-1700
EMAIL CTSTEAM@CTSAAZ.COM
TOM MORRIS

CODE DATA:

GOVERNING BUILDING CODES:

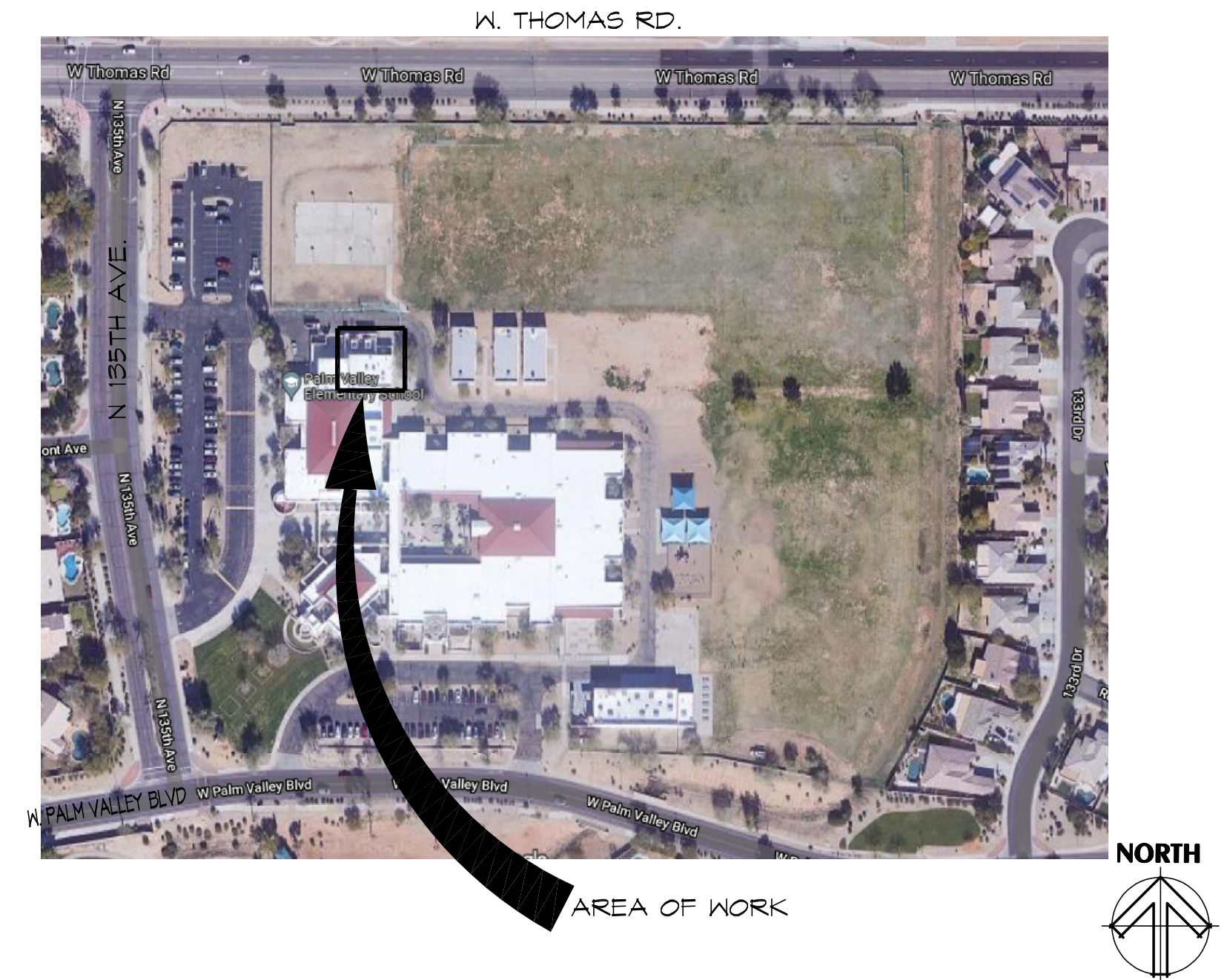
A. ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND AMENDMENTS PER THEIR ADOPTING ORDINANCES:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRIC CODE

SEISMIC ZONE:

A. DESIGN AND CONSTRUCT TO MEET REQUIREMENTS OF ZONE 2B (SEC. 1627.2 AS AMENDED)
B. ZONE FACTOR, $Z = 0.075$ (SEC 1627.2 AS AMENDED)

VICINITY MAP:



GENERAL NOTES:

- THESE GENERAL NOTES APPLY TO ALL DRAWINGS.
- COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS, AS REQUIRED BY CODE. ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH APPROVED UL MATERIALS, AND METHODS MEETING ALL APPLICABLE CITY REQUIREMENTS.
- THE CONTRACTOR IS ADVISED THAT DAMAGE TO ANY PORTION OF THIS PROJECT'S BUILDING(S) AND SURROUNDINGS AREA, AS A RESULT OF THIS CONSTRUCTION, IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE SITE, TO VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID AND THE START OF CONSTRUCTION. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE MECHANICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS CONSTRUCTION RELATED DEBRIS, AT THE END OF EACH WORK DAY.
- ALL EQUIPMENT OR MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR IN THE SPECIFICATIONS, BUT ARE REQUIRED TO COMPLETE THE INSTALLATION SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THE CONTRACT WORK.
- ALL CORES OR OPENINGS INTO WALLS AND SLABS SHALL BE PRIOR APPROVED BY THE STRUCTURAL ENGINEER.
- IT IS THE INTENT OF THESE CONSTRUCTION DOCUMENTS THAT THE LAYOUT BE FOLLOWED AS CLOSELY AS POSSIBLE, AND THAT THE QUALITY AND STANDARD OF WORKMANSHIP BE IN SUBSTANTIAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. ANY DEVIATION FROM THE PLANS AND SPECIFICATIONS SHALL BE APPROVED IN WRITING FROM THE ENGINEER PRIOR TO COMMENCING WORK.
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE UNDAMAGED AND IN NEW CONDITION.
- THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO STARTING ANY WORK. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK TO ASSURE THAT THE REQUIREMENTS OF CONSTRUCTION FOR VARIOUS TRADES AS SHOWN OR NOTED ON THE PLANS AND/OR SPECIFICATIONS ARE FAMILIAR TO ALL TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY PRECAUTIONS AND MEASURES TO PROTECT THE PUBLIC AND EMPLOYEES FROM DAMAGE AND INJURY THROUGHOUT THE COURSE OF CONSTRUCTION AND TO PROVIDE ALL NECESSARY MEANS TO PROTECT THE ENVIRONMENT FROM DAMAGE. ANY DAMAGED MATERIALS SHALL BE REPLACED WITH LIKE KIND AT NO COST TO THE OWNER.
- THE BUILDING OWNER IS PRESENTLY ENGAGED IN HIS NORMAL BUSINESS ACTIVITIES AT THIS LOCATION AND WILL CONTINUE HIS ACTIVITIES DURING THE WORK. THE CONTRACTOR SHALL RESPECT THE NECESSITY OF THE OWNER MAINTAINING HIS BUSINESS OPERATIONS. ALL WORK, MEN, MATERIAL, STORAGE AND EQUIPMENT SHALL BE CONDUCTED TO MINIMIZE INTERFERENCE WITH THE OWNER OPERATIONS.
- THE CONTRACTOR SHALL EXERCISE CAUTION AND IMPLEMENT MEASURES TO PREVENT CONSTRUCTION DUST AND FUMES FROM MIGRATING TO ADJACENT AREAS.

SHEET INDEX:

GENERAL:

T1-1 TITLE SHEET

MECHANICAL:

M1-1 MECHANICAL SPECIFICATIONS AND SHEET INDEX
M1-2 MECHANICAL SPECIFICATIONS, CONTROLS AND DETAILS
M2-1 MECHANICAL PARTIAL FLOOR PLAN - DEMOLITION
M3-1 MECHANICAL PARTIAL FLOOR PLAN - NEW

ELECTRICAL:

E1 ELECTRICAL SYMBOLS AND SPECIFICATIONS
E2 ELECTRICAL OVERALL SITE PLAN
E3 ELECTRICAL ENLARGED DEMOLITION AND NEW PLANS
E4 ELECTRICAL ONE LINE DIAGRAM AND PANEL SCHEDULES

STRUCTURAL:

S1-1 GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS
S2-1 PARTIAL MECHANICAL FLOOR PLAN

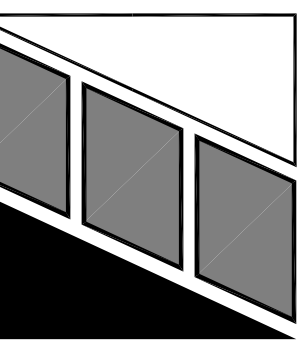
PROJECT DESCRIPTION:

SCOPE

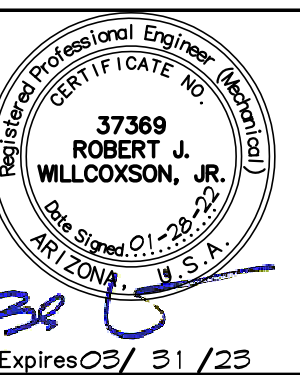
THE SCOPE OF THIS PROJECT SHALL INCLUDE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO FACILITATE THE REMOVAL OF TWO (2) COOLING TOWERS, ASSOCIATED PIPING AND SUPPORT BASES. FURNISH AND INSTALL ONE (1) COOLING TOWER, ASSOCIATED PIPING, VALVES AND SUPPORT BASE.

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REVISIONS



PALM VALLEY ELEMENTARY SCHOOL
COOLING TOWER REPLACEMENT
2801 N 135TH AVE
GOODYEAR, AZ 85395

DATE: 01/28/22
JOB No: 2022013
DRAWN: NWC
CHECKED: DMD
APPROVED: RJW

SHEET TITLE
TITLE SHEET

T1-1