CITY OF SONORA CALIFORNIA

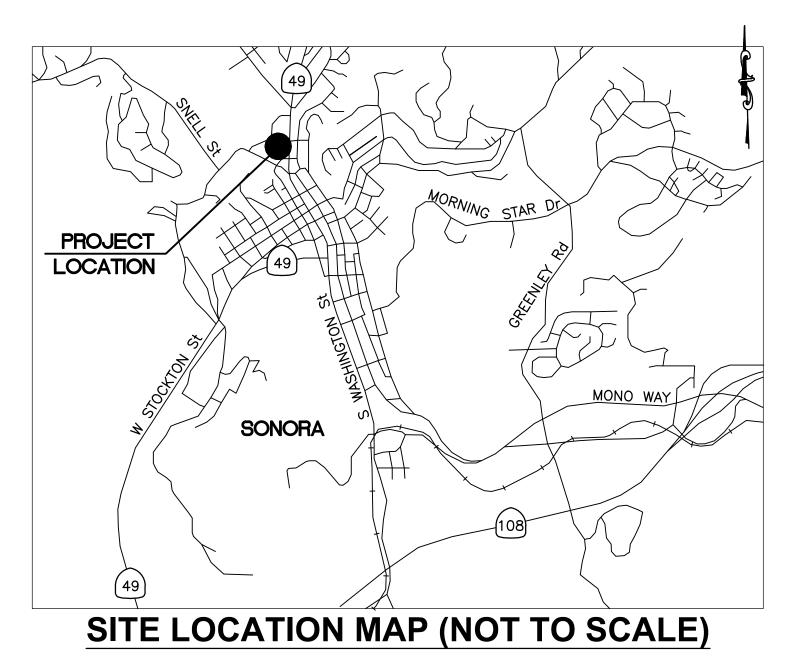
CITY OF SONORA PUBLIC WORKS MAINTENANCE YARD STRUCTURE

CITY OF SONORA CALIFORNIA	SHEET No.	TOTAL SHEETS
CITY PUBLIC WORKS	1	16
MAINTENANCE YARD STRUCTURE		

REGISTERED CIVIL ENGINEER

CITY OF SONORA 94 NORTH WASHINGTON STREET SONORA, CA 95370

DEWBERRY ENGINEERS INC. 575 EAST LOCUST AVENUE FRESNO, CA 93720



BASIS OF ELEVATIONS, BEARINGS AND

COORDINATES:
ASSUMED COORDINATE SYSTEM USED. ASSUMED ELEVATIONS USED. CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION.

> CITY OF SONORA PUBLIC WORKS

INDEX OF PLANS

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LEGEND

- * TREE
- → CHAIN LINK FENCE
- --- OVERHEAD UTILITY WATER METER
- BOX "IRRIGATION CONTROL VALVE"
- BOX "ELECTRIC"
- BOX "SEWER" WATER SPIGOT
- UTILITY POLE
- * LIGHT POLE
- 8" BLOCK WALL
- SIGN "NO PARKING"
- SURVEY CONTROL POINT
 - POINT NUMBER ELEVATION

DESCRIPTION

ABBREVIATIONS

MINIMUM MAX MAXIMUM STORM DRAIN SD

SANITARY SEWER MANHOLE

EXISTING PROPOSED

APPROVED

CITY REP 1, TITLE 1 DATE DATE CITY REP 2, TITLE 2 MIKE PUGH, PRINCIPAL ENGINEER (DEWBERRY) DATE



TITLE SHEET

T-1

USERNAME => jloy FILE NAME => MY_Title Sheet_T1.dwg BORDER LAST REVISED 7/2/2010

SONORA HIGH SCHOOL

VICINITY MAP

SCALE: 1"=40'

CONSTRUCTION LOCATION

W SCHOOL STREET

RELATIVE BORDER SCALE
IS IN INCHES

UNIT 0000

PROJECT NUMBER





BORDER LAST REVISED 7/2/2010

UNIT 0000

PROJECT NUMBER

GENERAL STRUCTURAL NOTES

BETWEEN THE DRAWINGS, SPECIFICATIONS, AND GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.

THE LOADS LISTED IN THE DESIGN SECTION OF THESE GENERAL NOTES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

REGISTERED IN THE STATE OF CALIFORNIA (OR A QUALIFIED GEOTECHNICAL TECHNICIAN WORKING UNDER THE DIRECT

D. COMPACT FILL TO AT LEAST 90% RELATIVE COMPACTION. INCREASE THE MINIMUM RELATIVE COMPACTION TO 95% WITHIN 18

G. FREE OF BOULDERS, ORGANICS, DEBRIS, TRASH, PARTICLES OF 2 INCHES OR MORE IN DIAMETER, AND OTHER DELETERIOUS

TEST RELATIVE COMPACTION AND MOISTURE CONTENTS. FREQUENCY OF DENSITY TESTING SHALL BE AS DIRECTED BY

BEFORE PLACING CONCRETE. ACTUAL FOUNDATION SUBGRADES SHALL BE OBSERVED DURING CONSTRUCTION BY THE

THE FOUNDATION LEVEL. LOOSE OR SOFT SOILS SHALL BE CAREFULLY CLEANED FROM THE BOTTOM OF THE EXCAVATIONS

REMOVED AND REPLACED WITH STRUCTURAL FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. CONCRETE STRUCTURES SHALL

SUPERVISION OF A REGISTERED ENGINEER) TO VERIFY SPECIFIED GEOTECHNICAL CONFORMANCE REQUIREMENTS.

B. CONTAIN AT LEAST 25% PASSING THE NO. 4 SIEVE AND AT LEAST 15% FINES PASSING THE NO. 200 SIEVE.

E. MOISTURE CONTENT AND PLASTICITY INDEX AS RECOMMENDED BY GEOTECHNICAL ENGINEER.

GEOTECHNICAL ENGINEER TO VERIFY SPECIFIED COMPACTION AND MOISTURE CONTENT REQUIREMENTS.

CONSTRUCTION LOADS AND OTHER LOADS IMPOSED ON THE PARTIALLY COMPLETED STRUCTURE(S). THE CONTRACTOR SHALL BE

RESPONSIBLE FOR THE DESIGN OF SHORING, BRACING, FORMWORK, ERECTION AIDS, AND OTHER NON-PERMANENT SUPPORTING

ELEMENTS UTILIZED FOR CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING IN ALL DIRECTIONS UNTIL ALL

100 PSF

32 PSF

1.00

0.36q

0.183g

0.363g

0.272g

LINEAR DYNAMIC ANALYSIS

SPECIAL REINFORCED CONCRETE MOMENT FRAME

THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND VERIFY ALL DIMENSIONS PRIOR TO START OF

CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.

NOT PROCEED PRIOR TO APPROVAL OF SUBMITTALS

BASIC WIND SPEED (3 SECOND GUST)

MAPPED SPECTRAL RESPONSE ACCELERATIONS, SS

MAPPED SPECTRAL RESPONSE ACCELERATIONS, S1

A. INSPECTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.

C. PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS.

GEOTECHNICAL ENGINEER TO EVALUATE SUITABILITY OF SUBGRADE SOILS.

WATER IN THE EXCAVATION OR DRYING OF FOUNDATION SOILS CAN BE AVOIDED.

LEVEL ONE FOOT BELOW SLAB SUBGRADE SO AS TO NOT DAMAGE FOUNDATION EXCAVATIONS.

BE CONSTRUCTED IN AN EXPEDIENT MANNER ONCE EXCAVATIONS ARE MADE TO AVOID WEATHER DAMAGE.

F. EXPANSION INDEX LESS THAN 20, PER ASTM D4829

BE GOVERNED BY THE LATEST REVISIONS OF:

A. ACI 301, ACI 315, AND ACI 318.

A. STRUCTURAL STEEL

C. REINFORCING STEEL

A. FLOOR LIVE LOADS:

B. RAIN LOAD:

C. WIND LOAD:

DISTRIBUTED LOAD

BUILDING CATEGORY

D. SEISMIC DESIGN DATA:

NOVEMBER 27, 2019.

THOSE ASSUMED FOR DESIGN.

INCHES OF FINISHED GRADE.

WIND EXPOSURE CATEGORY

BUILDING OCCUPANCY CATEGORY

SPECTRAL RESPONSE COEFF. Sps.

SPECTRAL RESPONSE COEFF. Sp1

SEISMIC-FORCE-RESISTING SYSTEM

SITE CLASS (ASSUMED)

ANALYSIS PROCEDURE

SEISMIC DESIGN CATEGORY

SEISMIC IMPORTANCE FACTOR

PERMANENT CONNECTIONS ARE MADE.

D. UTILITY SUPPORTS

B. CONCRETE

B. CRSI RECOMMENDED PRACTICE OF PLACING REINFORCING BARS.

C. ACI 306 AND ACI 305 FOR COLD AND HOT WEATHER CONCRETING, RESPECTIVELY.

2. ALL CONCRETE SHALL BE NORMAL WEIGHT WITH A MAXIMUM UNIT WEIGHT OF 150 POUNDS PER CUBIC FOOT AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH, AS SPECIFIED BELOW, FOR THE RESPECTIVE AREAS: A. FOOTINGS

B. SLABS 3,000 PSI

4,000 PSI

3. PROVIDE A 3/4" CHAMFER AT ALL EXPOSED CONCRETE CORNERS.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A 615. AND SHALL BE GRADE 60 U.N.O.

5. REINFORCING BAR LAP SPLICES AND HOOK DIMENSIONS SHALL BE AS REQUIRED PER THE SCHEDULE ON SHEET SO.01 UNLESS

6. STEEL SHALL NOT BE CUT UNLESS SHOWN OTHERWISE ON THE DRAWINGS. OR UNLESS AGREED TO BY THE ENGINEER ON A CASE BY CASE BASIS.

STRUCTURAL STEEL:

1. UNLESS NOTED OTHERWISE, DESIGN, DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CURRENT ADDITIONS OF AISC 303 AND 360, AND AWS D1.1.

2. ALL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (Fy=50 KSI MIN.). ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, U.N.O. 3. ALL WELDING SHALL BE DONE BY WELDERS CURRENTLY CERTIFIED BY THE AMERICAN WELDING SOCIETY (AWS) AS HAVING

PASSED AWS QUALIFICATION TESTS FOR THE TYPE OF WELDING THEY ARE TO PERFORM. ALL WELDERS SHALL USE E70XX

- ELECTRODES AND SHALL CONFORM TO AWS STANDARDS. 4. ALL COPES, BLOCKS, CUTS, CUT-OUTS, AND OTHER CUTTING OF STRUCTURAL MEMBERS SHALL HAVE ALL RE-ENTRANT CORNERS
- SHAPED, NOTCH-FREE, TO A RADIUS OF AT LEAST 1/2" INCH. 5. ALL STRUCTURAL STEEL CONNECTIONS SHALL BE BEARING TYPE "N" USING 3/4" DIAMETER ASTM A 325 HIGH STRENGTH BOLTS (MINIMUM OF 2 PER CONNECTION), U.N.O.
- 6. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED U.N.O.

STEEL DECK:

- 1. UNLESS NOTED OTHERWISE. TYPICAL STEEL DECK SHALL BE 2" DEEP. WIDE RIB. 22 GAUGE. GALVANIZED STEEL DECK AND SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES: Sp=0.247 IN 3/FT, Sn=0.252 IN 3/FT, AND I=0.353 IN 4/FT.
- 2. CHALKLINES OR OTHER METHODS SHALL BE USED TO ENSURE THAT DECK WELDS ARE ALIGNED WITH AND WILL OCCUR OVER THE TOP OF STEEL GIRDERS. EXCESSIVE WELD BLOWTHROUGH IN THE DECK DUE TO MISALIGNMENT OF WELDS OR EXCESSIVE WELD HEAT WILL NOT BE PERMITTED. IF, IN THE OPINION OF THE ENGINEER, EXCESSIVE BLOWTHROUGH HAS OCCURRED, THEN THE CONTRACTOR SHALL REPLACE THE DAMAGED DECK AT THEIR OWN EXPENSE.
- 3. STEEL DECK SHALL BE GALVANIZED.
- 4. ATTACH STEEL DECK TO SUPPORTING MEMBERS AS REQUIRED TO RESIST CONSTRUCTION LOADING PER MANUFACTURERS RECOMMENDATIONS.

UTILITY SUPPORTS

- 1. WATERLINE SUPPORTS SHALL BE GALVANIZED STEEL ROLLER SUPPORTS ("EATON B-LINE B3117SL STEEL ROLLER STAND" OR
- 2. WATERLINES SHALL BE ANCHORED TO EACH UTILITY SUPPORT WITH GALVANIZED STEEL U-BOLTS ("EATON B-LINE B3188 STANDARD U-BOLTS" OR APPROVED EQUAL)

- 1. AREA DRAINS SHALL BE APPROXIMATELY 5" IN DIAMETER AND INCLUDE A GALVANIZED CAST IRON BODY WITH A GALVANIZED CAST IRON VANDAL PROOF GRATE ("ZURN FD-2200 SMALL AREA FLOOR DRAIN" OR APPROVED EQUAL).
- 2. AREA DRAIN SHALL BE CONNECTED TO A 4" PVC HUB AND DRAIN PIPE THAT EXTENDS A MINIMUM OF 1" PAST THE BOTTOM OF THE STEEL DECKING.

COORDINATION:

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH, AND COORDINATED WITH CIVIL, MECHANICAL, ELECTRICAL, AND OTHER CONTRACT DOCUMENTS.
- 2. THE DRAWINGS HAVE BEEN PREPARED USING SOME DIMENSIONS AND ELEMENTS FROM A PARTICULAR EQUIPMENT MANUFACTURER. AS ALLOWED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR MAY IN FACT PROVIDE A DIFFERENT PIECE OF EQUIPMENT WHICH HAS DIFFERENT DIMENSIONS AND ELEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GAINING APPROVAL OF THE DIFFERENT DIMENSIONS AND ELEMENTS PRIOR TO ANY CONSTRUCTION AND ALL CHANGES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. THE SALIENT FEATURES SHALL NOT BE COMPROMISED. THE HYDRAULIC PERFORMANCE OF THE PUMPS SHALL NOT BE CHANGED.

REBAR SPLICE AND HOOK SCHEDULE

ASTM BAR SIZE	LD	CLASS B LAP	TOP BAR LAP	LDH
3	15"	19"	24"	9"
4	19"	25"	32"	11"
5	24"	31"	40"	14"
6	29"	37"	48"	17"
7	42"	54"	70"	19"
8	48"	62"	80"	22"
9	54"	70"	91"	25"
10	61"	79"	102"	28"

28"

(2-1/2" MIN.)- STANDARD CLASS "B" LAP AND TOP BAR LAP

SECTION

LDH

NOTES:

TOP BAR - DEFINED AS A BAR LOCATED SUCH THAT 12 IN. OR MORE OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.

MINIMUM OUTSIDE RADIUS OF BEND. R. SHALL BE 4db. LD - STANDARD DEVELOPMENT LENGTH OF BAR LDH - STANDARD DEVELOPMENT LENGTH OF HOOK db - BAR DIAMETER

MAINTENANCE YARD STRUCTURE PROFESSIO No. <u>S 3967</u> $\setminus_{Exp.} 3 - 31 - 25$ REGISTERED CIVIL ENGINEER STRUCTURAL

DEWBERRY ENGINEERS INC.

575 EAST LOCUST AVENUE

FRESNO, CA 93720

CITY OF SONORA CALIFORNIA

CITY PUBLIC WORKS

CITY OF SONORA 94 NORTH WASHINGTON STREET SONORA, CA 95370

SHEET TOTAL No. SHEETS

10

GENERAL STRUCTURAL NOTES

ST-1

BORDER LAST REVISED 7/2/2010

USERNAME => tpretzer FILE NAME => General Structural Notes.dwg RELATIVE BORDER SCALE IS IN INCHES

UNIT 0000

PROJECT NUMBER

EXPANSION

GALVANIZED

HORIZONTAL

MILES PER HOUR

NOT TO SCALE

KIPS PER SQUARE INCH

FOOTING

GAUGE

MAXIMUM

MINIMUM

NUMBER

FTG.

GALV.

HORIZ.

KSI

MAX.

MIN.

N.T.S.

STRUCTURE ABBREVIATIONS LIST

BOTH SIDES

CUBIC FOOT

воттом

CLEAR

DETAIL

FACH

DIAMETER

DIMENSION

ELEVATION

COLUMN

CONCRETE

CONTINUOUS

BOT.

CLR.

COL.

CONC.

CONT.

DET.

DIA.

DIM.

ELEV.

CF

90° BEND

50185787

NUMBER

RADIUS

TYPICAL

VERTICAL

PSI PSF

REINF.

STD.

TYP.

U.N.O.

V.I.F.

VERT.

ON CENTER

REINFORCING

VERIFY IN FIELD

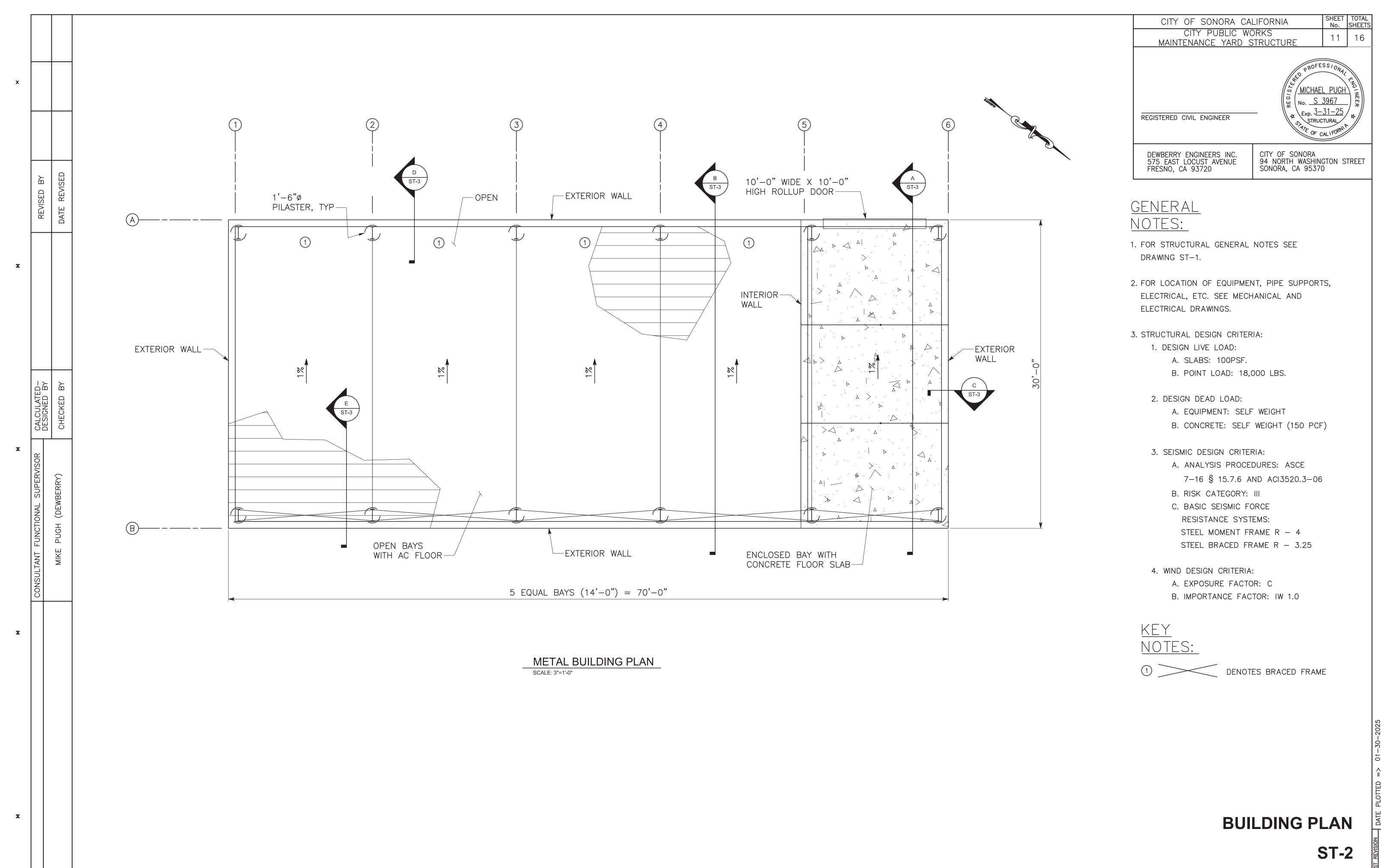
WORKING POINT

STANDARD

POUNDS PER SQUARE INCH

POUNDS PER SQUARE FOOT

UNLESS NOTED OTHERWISE



50185787

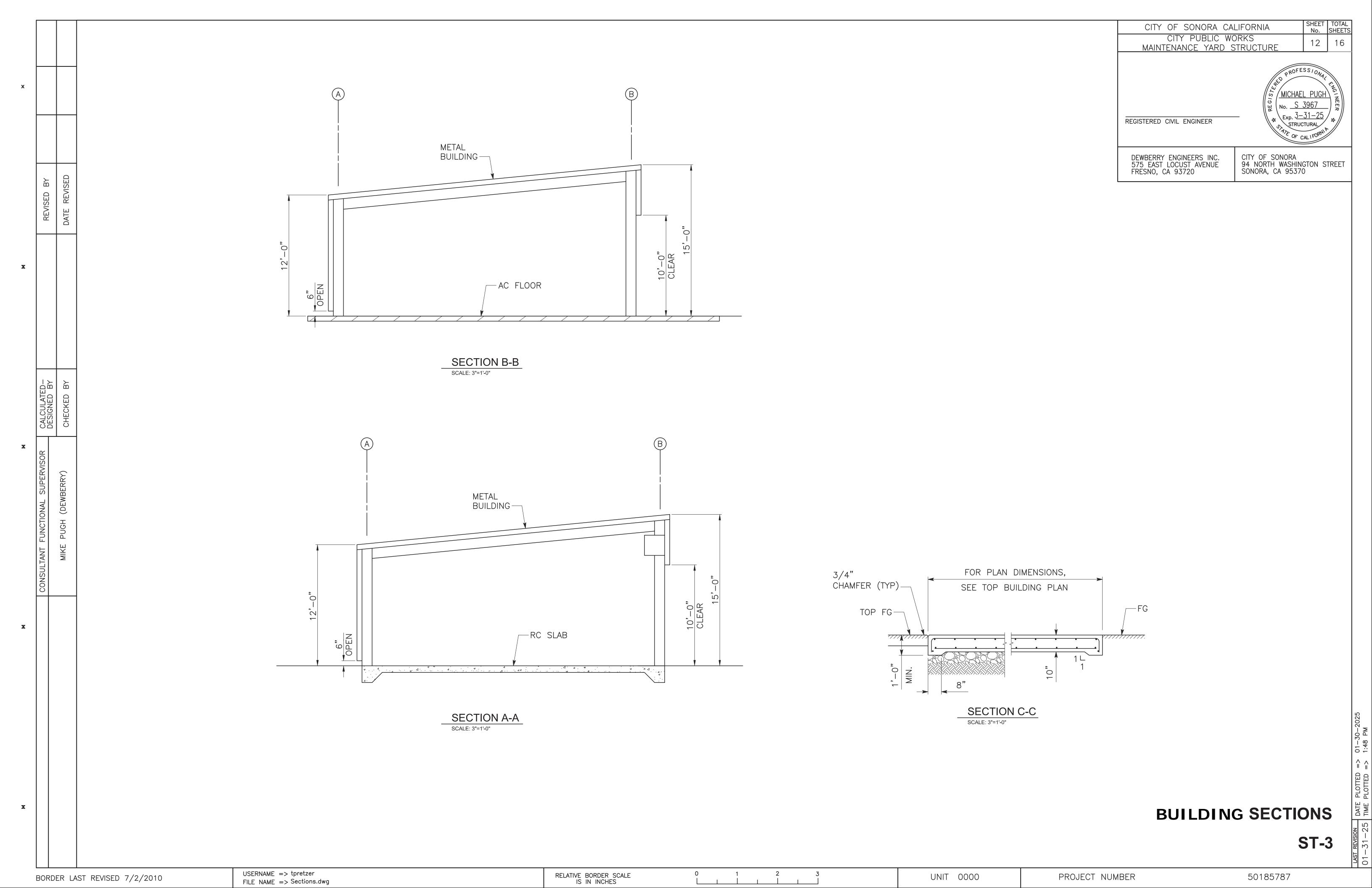
PROJECT NUMBER

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RELATIVE BORDER SCALE
IS IN INCHES

UNIT 0000





BORDER LAST REVISED 7/2/2010

Dist COUNTY ROUTE TOTAL PROJECT SHEET TOTAL SHEETS

SON TUO CITY PARK

1 3

REGISTERED CIVIL ENGINEER

DEWBERRY ENGINEERS INC. 575 EAST LOCUST AVENUE FRESNO, CA 93720

POST MILES TOTAL NO. SHEET NO. SHEET SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

WATERLINE PLAN W-1

SCALE: Horiz 1"=20'

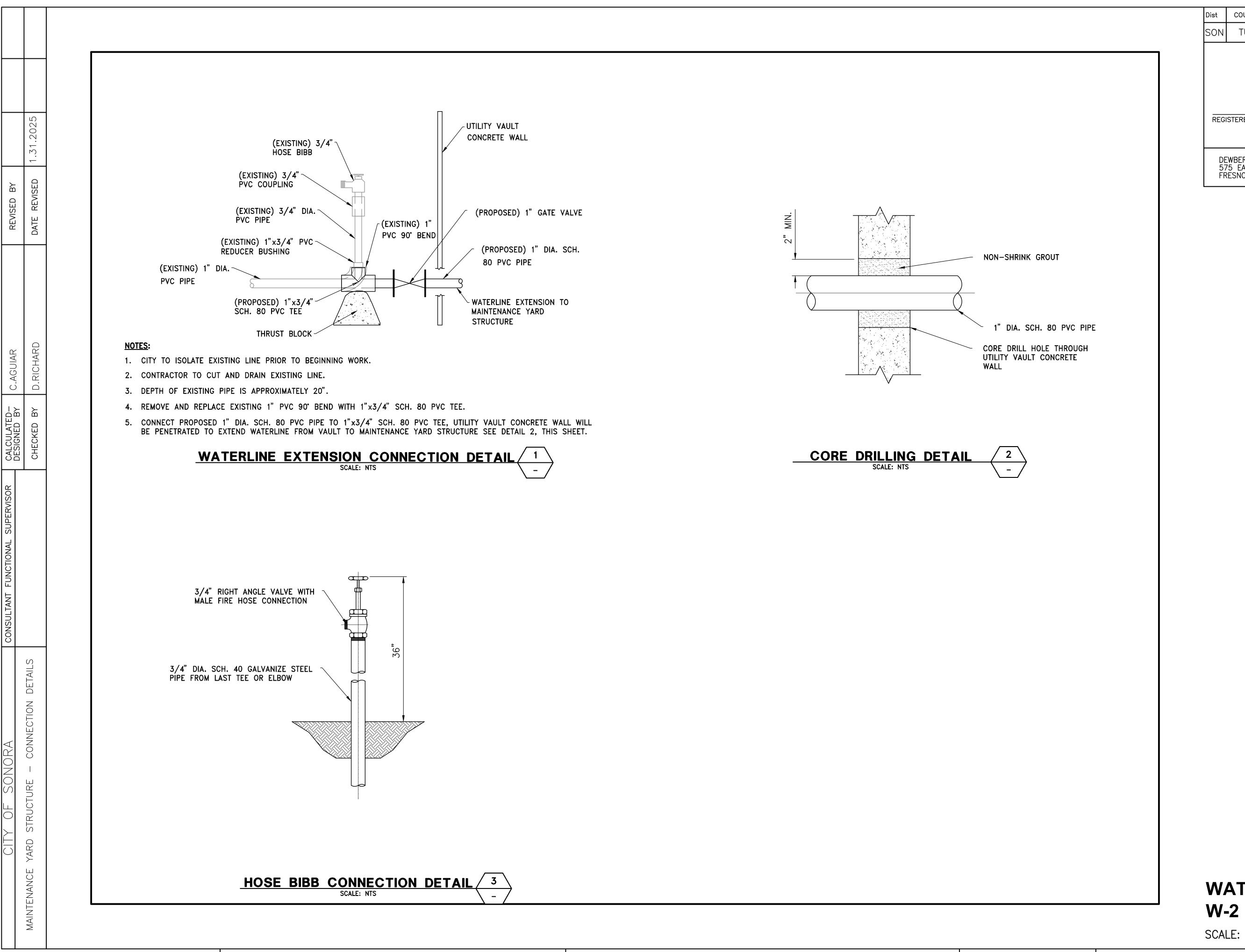
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RELATIVE BORDER SCALE
IS IN INCHES

RELATIVE BORDER SCALE
IS IN INCHES

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UNIT 0000

PROJECT NUMBER
50185787



POST MILES TOTAL PROJECT SHEET TOTAL No. SHEETS ROUTE COUNTY CITY PARK TUO EXP. 6/30/26 REGISTERED CIVIL ENGINEER DEWBERRY ENGINEERS INC. 575 EAST LOCUST AVENUE FRESNO, CA 93720 CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

WATER PIPELINE DETAILS 1

SCALE: NTS

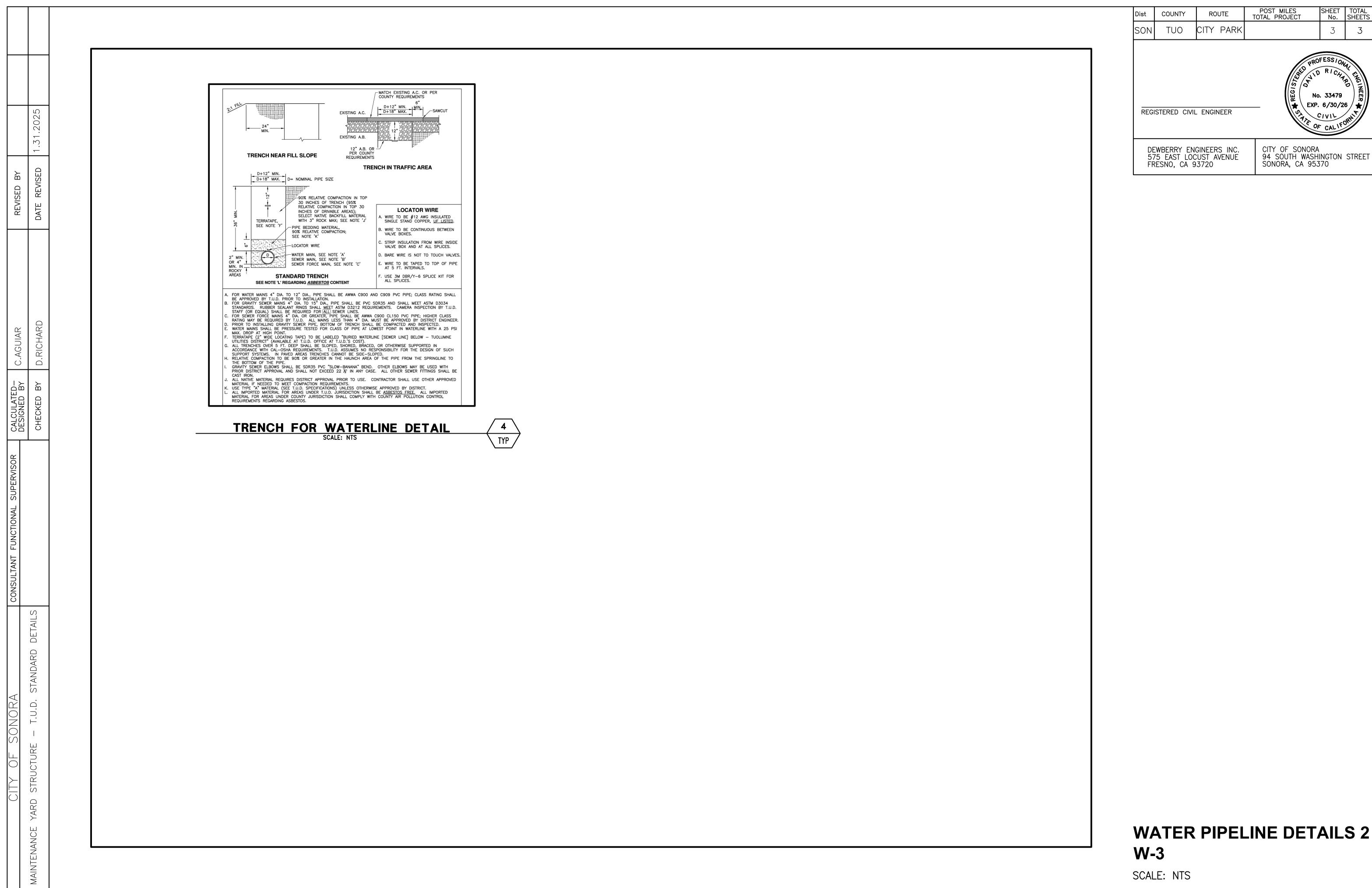
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PROJECT NUMBER



50185787

TOTAL SHEETS

SONORA, CA 95370

WATER PIPELINE DETAILS 2

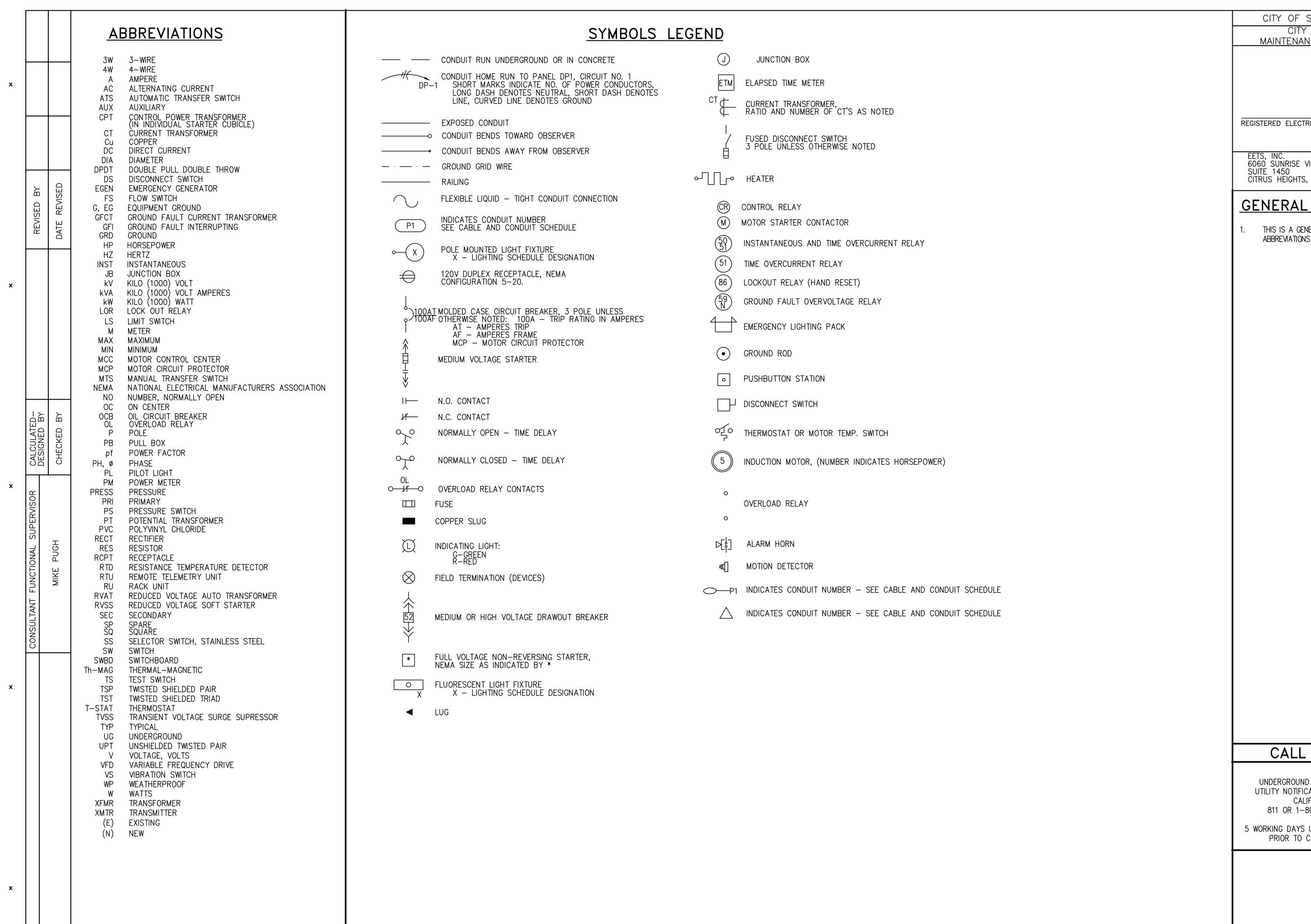
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UNIT 0000

PROJECT NUMBER



CITY OF SONORA CALIFORNIA No. SHEETS CITY PUBLIC WORKS XX XX MAINTENANCE YARD STRUCTURE

> PROFESS/ON EXP. SEPT. OF CALIFORNIA

REGISTERED ELECTRICAL ENGINEER

6060 SUNRISE VISTA DRIVE CITRUS HEIGHTS, CA 95610

CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

GENERAL NOTE

THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.

CALL BEFORE YOU DIG

UNDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF CALIFORNIA 811 OR 1-800-422-4133

5 WORKING DAYS UTILITY NOTIFICATION



PRIOR TO CONSTRUCTION

SYMBOLS & **ABBREVIATIONS**

E-1

				CITY OF SONORA CALIFORNIA SHEET T No. SH
	CODES & REGULATIONS	GENERAL NOTES (CONTINUED)	GENERAL NOTES (CONTINUED)	CITY PUBLIC WORKS MAINTENANCE YARD STRUCTURE XX
	1. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND SHALL COMPLY WITH ALL NATIONAL AND LOCAL AUTHORITIES, ORDINANCES, AND CODES AT TIME OF	19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES AND PAYING ALL ASSOCIATED FEES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.	37. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR PROTECTING EXISTING TREES NOT IDENTIFIED FOR REMOVAL. ANY TREE DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE CITY.	PROFESS/ON
	INSTALLATION. THIS INCLUDES THE CALIFORNIA BUILDING CODE (IBC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), AND AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).	20. THE PROJECT CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS AND SURVEY REFERENCE POINTS, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT BY A CALIFORNIA REGISTERED PROFESSIONAL LAND SURVEYOR.	38. CONTRACTOR SHALL COORDINATE AND NOTIFY THE CITY 24 HOURS PRIORS TO WHEN WORK IS READY FOR INSPECTIONS. NO UNDERGROUND WORK SHALL BE BURIED PRIOR TO INSPECTION BY THE CITY. THE PRESENCE OR ABSENCE OF THE CITY WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER	REGISTERED ELECTRICAL ENGINEER REGISTERED ELECTRICAL ENGINEER
	2. ALL CONSTRUCTION AND OPERATIONS BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. PRIOR TO BEGINNING WORK, CONTACT OSHA FOR PERMIT REQUIREMENTS.	21. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.	PERFORMANCE OF WORK. 39. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS THAT ARE TO BE REMOVED FROM THE	REGISTERED ELECTRICAL ENGINEER
3.	3. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.	22. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE	SITE, INCLUDING SURPLUS EXCAVATION MATERIALS AND DEBRIS. THE CONTRACTOR SHALL MAINTAIN THE SITE A SAFE, NEAT, AND ORDERLY CONDITION. THE CONTRACTOR SHALL DELIVER MATERIALS OR EQUIPMENT TO BE SALVAGED AND RETURNED TO THE CITY AT THE LOCATION TO BE DETERMINED BY THE CITY. MATERIALS MAY	FFTS. INC.
)ED	4. IN THE EVENT OF CODE CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.	RESULTS DURING THE PERFORMANCE OF THIS CONTRACT WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UTILITY COMPANIES A MINIMUM OF FORTY—EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION.	INCLUDE MECHANICAL/ELECTRICAL SYSTEMS THAT MAY BE DEMOLISHED AS PART OF THE WORK. REMOVED MATERIALS SHALL BE DISPOSED OF USING A LICENSED CARTING SERVICE.	6060 SUNRISE VISTA DRIVE SUITE 1450 CITRUS HEIGHTS, CA 95610 CITY OF SONORA 94 SOUTH WASHINGTON STR SONORA, CA 95370
REVIS	GENERAL NOTES	23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. THE COST OF REPLACING EXISTING IMPROVEMENTS WITH SAME LEVEL OF QUALITY SHALL BE INCLUDED IN THE CONTRACT BID	40. ALL TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND CITY STANDARDS AND SPECIFICATIONS.	THIS DOCUMENT, TOGETHER WITH
DATE	1. ALL EQUIPMENT SHALL BE NEW, UNUSED, AND U.L. LISTED (WHERE A U.L. LISTING IS AVAILABLE FOR THAT CLASS OF EQUIPMENT).	PROCESS. 24. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS WITHIN THE PROJECT	41. CONTRACTOR SHALL COMPLY WITH ALL STATE AND COUNTY LAWS AND ORDINANCES RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT, AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO COMD—19 REGULATIONS AS MAY BE IN EFFECT AT THE TIME, SHORING OF TRENCHES, VENTILATION OF CONFINED	THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN
	2. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, UNLESS A LONGER PERIOD IS SPECIFIED BY THE MANUFACTURER.	SITE, STAGING AREAS, AND ACCESS ROAD TO THE SITE, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.	SPACES, CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS, INCLUDING PROVISIONS AND MAINTENANCE OF BARRICADES, TRENCH COVERS, AND PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS AS REQUIRED.	INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER
	3. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGH THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.	25. REQUIRE ALL NECESSARY PERMITS AND COMPLY WITH ALL LOCAL CODES AND ORDINANCES FOR EXCAVATIONS OR TRENCHES FIVE (5) FEET OR MORE IN DEPTH.	42. MANHOLE ENTRY AND/OR ENTRY TO ANY EXCAVATION OR STRUCTURE GREATER THAN FOUR (4) FEET DEEP SHALL BE IN FULL COMPLIANCE WITH THE CONFINED SPACE ENTRY REQUIREMENTS OF CALIFORNIA AND FEDERAL OSHA.	REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY EETS INC.
	4. VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.	26. WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.	43. CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADHERING TO, AND MAINTAINING THE SWPPP FOR THE	SHALL BE WITHOUT LIABILITY TO EETS INC.
	5. VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.	27. EXACT LIMITS OF PAVEMENT REMOVAL AND RECONSTRUCTION SHALL BE DETERMINED IN THE FIELD BY THE CITY.	DURATION OF THE PROJECT. THE SWPPP SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO THE START OF ANY WORK. THE CITY MAY AT ANY TIME INSPECT AND OBSERVE COMPLIANCE WITH THE SWPPP.	
	6. PRIOR TO COMMENCING WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL AFFECTED UNDERGROUND UTILITIES MAIN AND SERMCE LINES AND POTHOLE ALL CONFLICTING UTILITIES PRIOR TO EXCAVATION. THE	28. DUST SHALL BE CONTROLLED IN COMPLIANCE WITH LOCAL AUTHORITY AND PROJECT TECHNICAL SPECIFICATIONS.	44. CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FENCING FOR THE STAGING AREA. THE CITY SHALL NOT BE RESPONSIBLE FOR SITE SECURITY.	
5	CONTRACTOR SHALL NOTIFY THE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK, BY CALLING THE TOLL—FREE NUMBER 811 FROM DIGALERT.ORG/CONTACT. THE KNOWN	29. ALL DRAINAGE PATTERNS SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION. 30. PERFORM ALL VERIFICATION, OBSERVATIONS, TESTING, AND EXAMINATION OF WORK PRIOR TO THE ORDERING OF	45. CONTRACTOR SHALL POTHOLE TO EXPOSE ALL EXISTING PIPING AT UTILITY CROSSINGS AND PROPOSED CONNECTIONS TO DEVELOP INFORMATION TO FACILITATE PIPE FABRICATIONS AND CONNECTIONS. EXPOSURE AND MEAGURE OF THE PIPE FABRICATION AND CONNECTIONS.	
I CAE	EXISTING BURIED UTILITIES AND PIPELINES ARE SHOWN ON THE DRAWINGS IN THEIR APPROXIMATE LOCATIONS. THERE IS NO GUARANTEE THAT ALL EXISTING PIPELINES AND OBSTRUCTIONS ARE SHOWN OR THAT LOCATIONS INDICATED ARE ACCURATE.	ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE CITY LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT, AND DISCREPANCIES.	MEASUREMENT SHALL OCCUR PRIOR TO PIPING SHOP DRAWING SUBMITTALS. 46. IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL CONTROL.	
<u> </u>	7. CONSTRUCTION MATERIALS TESTING, AND INSPECTION SHALL COMPLY WITH THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. FAILURE TO MEET ANY OF THE ABOVE REQUIREMENTS SHALL BE CAUSE FOR REJECTION.	31. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.	47. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.	
	8. CONTRACTOR SHALL KEEP ONE ACCURATE, LEGIBLE SET OF AS-BUILT DRAWINGS AT THE SITE AND AVAILABLE FOR REVIEW BY THE ENGINEER IN CONTRACTOR'S FIELD OFFICE THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO FINAL	32. ALL OPEN TRENCHES SHALL BE APPROPRIATELY PLATED OVER, WHEN THE CONTRACTOR IS NOT ACTIVELY WORKING IN SAID TRENCH.	48. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE CONTRACT DRAWINGS.	
	ACCEPTANCE OF THE WORK. 9. ALL MANUFACTURED EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE USED AS INTENDED BY THE CONTRACTOR, IN	33. PRIOR TO OPENING AN EXCAVATION, THE CONTRACTOR SHALL DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATION ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE LOCATION OF SUCH UNDERGROUND	49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.	
	STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS. 10. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO CIVIL AND STRUCTURAL DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.	INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION BY THE CONTRACTOR.	50. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING, AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.	
	11. THOROUGHLY TEST ALL LINES, FEEDERS, EQUIPMENT, AND DEVICES WITH MAXIMUM LOADS TO ASSURE PROPER	34. THE CITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK TO BE PERFORMED. 35. A TEN (10) DAY NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION, AND THE CITY OR ASSOCIATED UTILITY	51. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.	
	OPERATION. 12. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION	COMPANY TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED PREVIOUSLY.	52. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.	
	WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET. 13. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. PROMDE	36. EXISTING OVERHEAD ELECTRIC AND TELEPHONE TRANSMISSION LINES MAY BE LOCATED AT OR NEAR THE SITE. THESE OVERHEAD UTILITIES ARE NOT SHOWN ON THE DRAWINGS. EXTREME CAUTION SHALL BE USED WHEN WORKING IN THE VICINITY OF OVERHEAD UTILITIES SO AS TO PREVENT INJURY TO WORKMEN OR DAMAGE TO THE UTILITIES.	53. THE AREAS OF THE CITY'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.	
	COMPONENTS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS INCLUDING RACEWAYS, CONDUCTORS, BOXES, SUPPORTS, AND SIMILAR ITEMS. 14. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS			
	INCLUDING CASEWORK SHOP DRAWINGS AND INTERIOR ELEVATIONS PRIOR TO ROUGH—IN. 15. DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS AND STUB—UPS. THESE ARE TO BE			
	COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS AND MAINTAIN REQUIRED CLEARANCES. THE CONTRACTOR SHALL COORDINATE CONDUIT STUB—UP LOCATIONS BASED UPON APPROVED EQUIPMENT SHOP DRAWINGS. 16. NOT ALL COMPONENTS AND FEATURES ARE SHOWN ON PLANS. CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR			
	ADDITIONAL REQUIREMENTS TO PROMDE A COMPLETE FUNCTIONAL SYSTEM. 17. THE CONTRACTOR SHALL NOTIFY THE CITY REGARDING ANY DISCREPANCIES OR AMBIGUITIES, WHICH MAY EXIST IN THE			
	PLANS OR SPECIFICATIONS PRIOR TO ROUGH IN.			
	18. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.			ALL GENERAL NOTES APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS, AS IF THEY WERE WRITTEN IN THE ENTIRETY ON EACH SHEET.
				GENERAL NOTES
				E-2

E-2

USERNAME => ktoof FILE NAME => E2 - Electrical & RELATIVE BORDER SCALE IS IN INCHES UNIT 0000 General Notes PROJECT NUMBER & PHASE 50185787 BORDER LAST REVISED 7/2/2010

			ELECTRICAL GENERAL NOTES		GROUNDING NOTES
		1.	PROVIDE FIRESTOPPING SYSTEMS FOR CONDUIT AND RACEWAY SYSTEMS AT PENETRATIONS, SLEEVES, AND SLOTS OF FIRE RATED CONSTRUCTION FOR HORIZONTAL AND INTRABUILDING PATHWAYS AND SPACES.	1.	MULTIPLE ROD GROUNDING SYSTEMS SHALL BE CONNECTED TOGETHER WITH 4/0 BARE STRANDED COPPER CABLE. ALL BELOW GROUND CONNECTIONS SHALL BE EXOTHERMIC WELDED (CADWELD) OR COMPRESSION TYPE AS INDICATED ON DRAWN
		2.	ALL HOLES THROUGH MASONRY SHALL BE MADE WITH CORE DRILLS IF NOT SLEEVED THROUGH THE WALLS. IF CONDUITS REQUIRE CORE DRILLING, OTHER METHODS SUCH AS CHISELING OR HAMMERED OUT OPENINGS ARE NOT ACCEPTABLE.	2.	GROUNDING DETAILS. PROVIDE 1" PVC CONDUIT SLEEVES FOR GROUNDING CABLE PENETRATIONS THROUGH CONCRETE FLOORS AND/OR WALLS.
			THE HOLES SHALL BE MADE NO LARGER THAN ¼ LARGER DIAMETER THAN THE CONDUIT. ALL OPENINGS SHALL BE GROUTED USING CONSTRUCTION—GRADE NON—SHRINK GROUT WHERE INSTALLED THROUGH CONCRETE AND CAULKED USING	3.	CONNECTING SURFACES OF STEEL AND CABLES SHALL BE THOROUGHLY CLEANED BRIGHTNESS AND PREPARED PRIOR TO COMPLETING THE CONNECTION.
		3.	CONSTRUCTION—GRADE NATURAL CURE SILICONE CAULK WHERE INSTALLED THROUGH SIDING MATERIALS IF SHOWN, DRYWALL OR OTHER FINISHES ABOVE FINISH GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN	4.	COMPLETELY AND EFFECTIVELY GROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NEC.
<u></u>	ED	J.	ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND HOME-RUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.	5. 6.	A GROUND CONDUCTOR SIZED PER NEC ARTICLE 250 IS REQUIRED IN ALL CONDUITS. ALL CONDUITS SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
REVISED BY	REVISED	4.	ALL CONDUITS LEAVING OR ENTERING PANELS, ENCLOSURES, AND MOTOR CONTROL CENTERS FROM EXTERIOR OR COLD AREAS SHALL BE DUCT SEALED AT BOTH ENDS.	7.	LABEL ALL CONNECTIONS AT GROUND BUSBARS, EQUIPMENT, AND TEST WELLS. APPLY METAL TAGS TO CABLES; LABELS SHALL INDICATE CABLE PURPOSE AND PO OF TERMINATION FOR THE OPPOSITE END OF CABLE.
REV	DATE	5.	ALL INDOOR BUILDING CONDUIT PENETRATIONS INTO TOP, SIDE, OR BOTTOM OF ELECTRICAL ENCLOSURES ARE REQUIRED TO BE MADE USING MYERS HUBS FOR TERMINATION OF ELECTRICAL CIRCUITS.	8.	ALL REQUIRED BONDS MAY NOT BE SHOWN; PROVIDE ADDITIONAL BONDS TO ALL DEVICES, INSTRUMENTS, CABINETS, CONTROL VALVES, ETC. AS REQUIRED TO COMPI
		6.	ALL OUTDOOR BUILDING CONDUIT PENETRATIONS INTO SIDE OR BOTTOM OF ELECTRICAL ENCLOSURES ARE REQUIRED TO BE MADE USING WATERTIGHT MYERS HUBS FOR TERMINATION OF ELECTRICAL CIRCUITS. TOP CONDUIT PENETRATIONS INTO OUTDOOR INSTALLED ENCLOSURES IS PROHIBITED.	9.	WITH UL AND NEC. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS, AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
		7. 8.	WHEN CONNECTIONS ARE COMPLETE IN THE CONNECTION BOX, COAT THE TERMINAL BLOCKS AND WRE ENDS WITH PROTECTIVE COMPOUND, NO-OXIDE OR EQUAL, TO PREVENT CORROSION. ALL PULLBOXES SHALL BE SIZED AS REQUIRED (WITH MINIMUM SIZE OF 12"x10"x8"),	10.	ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PAT TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTION AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATH
		9.	UNLESS NOTED OTHERWISE. USE STAINLESS STEEL FASTENERS FOR MOUNTING OF JUNCTION BOXES OR OTHER DEVICES.	11.	POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE
		10.	PROVIDE EQUIPMENT SUPPORTS, PIPE, AND DUCT HANGERS, AS REQUIRED TO SAFELY AND PERMANENTLY CARRY THE WEIGHT OF EQUIPMENT.		TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURES TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTION TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE
CALCULAIED— DESIGNED BY	KED BY	11.	FACTORY SWEEPS SHALL BE USED AT ALL CONDUIT BENDS. FIELD BENDS ARE NOT ACCEPTABLE. WHEN FACTORY SWEEPS ARE UNAVAILABLE, SWEEPS SHALL BE SIZED TO MEET MINIMUM CABLE BENDING RADIUS OF 12 TIMES CABLE OUTER DIAMETER AND MAXIMUM SIDEWALL PRESSURE REQUIREMENTS.	12.	PERMANENT AND EFFECTIVE GROUNDING. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS, AND EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECT
CALCU DESIGN	СНЕСКЕВ	12. 13.	PULL CABLES USING SUFFICIENT LUBRICATION PER CABLE MANUFACTURER'S RECOMMENDATIONS. ALL BREAKERS SHALL HAVE TERMINALS RATED A MINIMUM OF 75°C.	13.	HAVING JURISDICTION, BEFORE BEING PERMANENTLY CONCEALED. ALL EXISTING GROUND BARS, WIRES, AND CONNECTIONS SHALL BE FIELD VERIFIED. ANY DEFICIENT ITEMS SHALL BE REPLACED AS REQUIRED TO ACHIEVE ADEQUATE GROUNDING REQUIRED.
/ISOR		14.	ALL POWER CONDUCTORS FOR 480V AND BELOW SYSTEMS SHALL BE 600 VOLT RATED, STRANDED COPPER WITH TYPE THHN/THWN INSULATION PER THE SPECIFICATIONS.	14.	CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYST COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
SUPERVISOR	_	15.	UNLESS SHOWN OTHERWISE, ALL LIGHTING & RECEPTACLE HOMERUNS SHALL BE 3/4" CONDUIT CONTAINING (AS A MINIMUM) (2) #12 AND (1) #12 GROUND. SPARE WIRES SHALL BE TAPED AND COILED.	15.	TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR
FUNCTIONAL	MIKE PUGH	17.		16.	CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTION TO COMPLY WITH TIGHTENING TORQUE VALUE SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING. ALL STEEL STRUCTURES AND ALL MISCELLANEOUS STEEL, INCLUDING LIGHT
		18.	LOCKOUT AND TAGOUT PROCEDURE SHALL BE COORDINATED WITH THE CITY. LIVE/ENERGIZED WORK IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY.		FRAMEWORK, STEEL SUPPORT STRUCTURES, AND METAL BUILDINGS, SHALL BE SOLIDLY CONNECTED TO THE MAIN GROUND GRID WITH 4/0 BARE COPPER GROUN CABLE.
CONSULIANI		19.	CONNECTORS FOR 480V AND BELOW RATED POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST—ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND		
၂၂		20.	LARGER. ALL WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.		
		21.	THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGE THEREIN.		

CITY OF SONORA CALIFORNIA CITY PUBLIC WORKS MAINTENANCE YARD STRUCTURE

SHEET TOTAL No. SHEETS

XX XX

REGISTERED ELECTRICAL ENGINEER

EETS, INC. 6060 SUNRISE VISTA DRIVE SUITE 1450 CITRUS HEIGHTS, CA 95610

CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

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ALL GENERAL NOTES APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS, AS IF THEY WERE WRITTEN IN THE ENTIRETY ON EACH SHEET.

ELECTRICAL NOTES

E-3

USERNAME => ktoof FILE NAME => E3 - Electrical & RELATIVE BORDER SCALE
IS IN INCHES UNIT 0000 General Notes -PROJECT NUMBER & PHASE 50185787 BORDER LAST REVISED 7/2/2010



RELATIVE BORDER SCALE
IS IN INCHES

BORDER LAST REVISED 7/2/2010

FILE NAME => E4 - Overall Site

SHEET TOTAL No. SHEETS CITY OF SONORA CALIFORNIA CITY PUBLIC WORKS XX MAINTENANCE YARD STRUCTURE

REGISTERED ELECTRICAL ENGINEER

EETS, INC. 6060 SUNRISE VISTA DRIVE SUITE 1450 CITRUS HEIGHTS, CA 95610

CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

GENERAL NOTES

- EXISTING UTILITIES ARE NOT SHOWN ON THE ELECTRICAL DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXACT UTILITY LOCATIONS PRIOR TO ROUGH IN. HAND DIG ALL UTILITIES IN CLOSE PROXIMITY TO THE INSTALLATION OF THE ELECTRICAL EQUIPMENT TO AVOID DAMAGING ANY UTILITY LINE.
- CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ON PLANS AND ARE ONLY APPROXIMATIONS. THE EXACT LOCATION AND ROUTING PATHS SHALL BE FIELD VERIFIED AND INSTALLED PER JURISDICTIONAL REQUIREMENTS.
- ALL ABOVE GROUND BUILDING INTERIOR RACEWAYS SHALL BE EMT, UNLESS THE RACEWAYS ARE NEAR VEHICLE TRAFFIC OR HEAVY EQUIPMENT TRAVELED AREAS, WHERE THE RACEWAYS ARE SUBJECT TO DAMAGE. AS A SUBSTITUTE TO EMT IN VEHICLE TRAFFIC OR HEAVY EQUIPMENT TRAVELED AREAS IN BUILDING INTERIOR, THE CONTRACTOR SHALL USE GALVANIZED RIGID STEEL CONDUIT FOR ABOVE GROUND RACEWAYS. ALL BUILDING EXTERIOR ABOVE GROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 RIGID PVC. INSTALLATION OF CONDUIT SHALL BE IN ACCORDANCE WITH THE NEC AND CITY OF SONORA STANDARDS. SEE SHEET E7 DETAIL D5 FOR CONDUIT RISER DETAIL.

KEY NOTE

MOUNT NEW LOAD CENTER ON EXTERIOR OF BUILDING IN LINE OF SIGHT WITH EXISTING 100A PANEL.

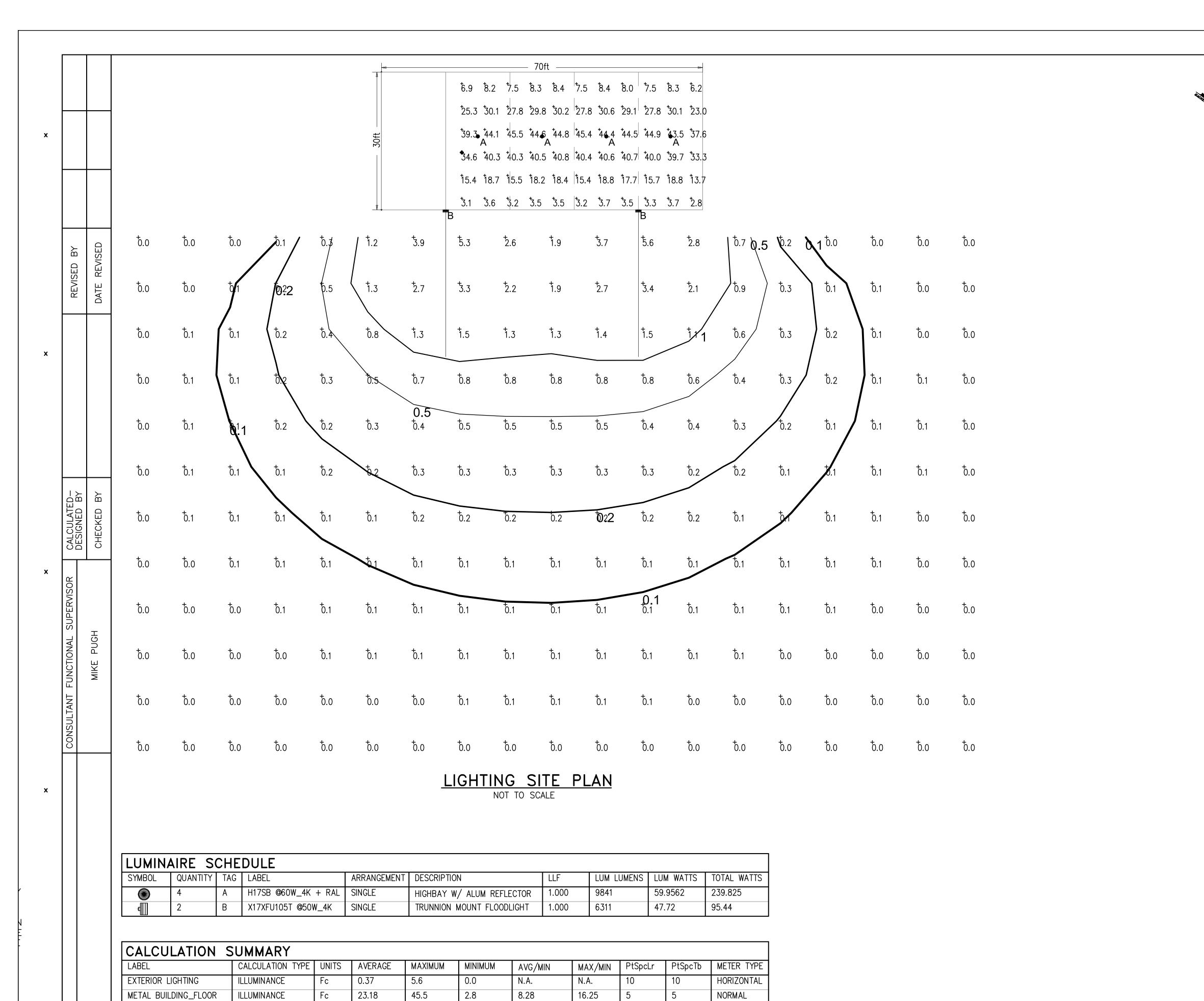
OVERALL SITE PLAN

E-4

50185787

PROJECT NUMBER & PHASE

UNIT 0000 Plan.dwg



ROOM SUMMARY

Rect-VertExtr

METAL BUILDING

WALL HEIGHT

DESCRIPTION

REFLECTANCES: 50/50/20

CITY OF SONORA CALIFORNIA

CITY PUBLIC WORKS

MAINTENANCE YARD STRUCTURE

SHEET TOTAL
No. SHEE

PROFESSIONAL PROFE

REGISTERED ELECTRICAL ENGINEER

EETS, INC. 6060 SUNRISE VISTA DRIVE SUITE 1450 CITRUS HEIGHTS, CA 95610

CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

GENERAL NOTES

- I. LOCATION OF THE LIGHTING FIXTURES ARE SHOWN DIAGRAMMATICALLY. VERIFY EXACT LOCATIONS AND SPACING WITH PLANS AT THE SITE DURING INSTALLATION. NOTIFY THE ENGINEER ABOUT VARYING FIELD CONDITIONS WITH CONTRACT DOCUMENTS, BEFORE COMMENCING INSTALLATION.
- 2. ALL LIGHTING FIXTURES SHALL BE PROVIDED COMPLETELY WITH ALL LAMPS, WIRES, AND CONTROLLERS SECURELY ATTACHED TO SUPPORTS.
- 3. CONTRACTOR SHALL VERIFY MOUNTING
 REQUIREMENTS OF ALL LIGHT FIXTURES AND
 COORDINATE WITH THE LIGHT FIXTURE SUPPLIER
 TO FURNISH ALL REQUIRED MOUNTING
 HARDWARE AND ACCESSORIES THAT ARE
 SUITABLE FOR THE SPECIFIC MOUNTING SURFACE
 AND ENVIRONMENT, REGARDLESS OF WHAT IS
 SPECIFIED IN THE LUMINAIRE SCHEDULE.
- 4. SEE SHEET E5 FOR PANEL 'A' SCHEDULE.

SITE PLAN - LIGHTING

E-5

5

BORDER LAST REVISED 7/2/2010

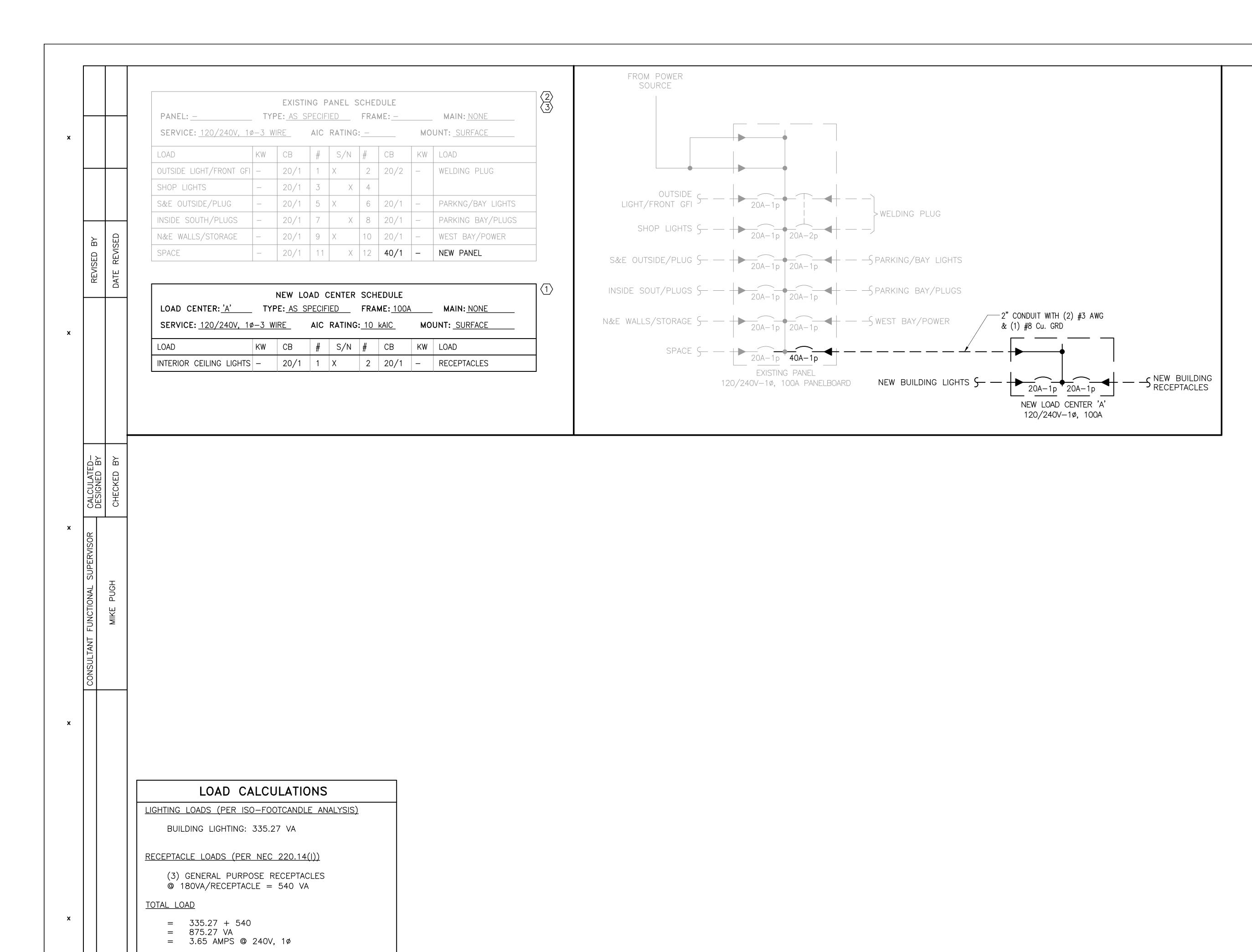
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SIZE LOAD CENTER FOR 240V, 1ø, 60 AMP SERVICE

SHEET TOTAL No. SHEETS CITY OF SONORA CALIFORNIA CITY PUBLIC WORKS XX XX MAINTENANCE YARD STRUCTURE

REGISTERED ELECTRICAL ENGINEER

EETS, INC. 6060 SUNRISE VISTA DRIVE SUITE 1450 CITRUS HEIGHTS, CA 95610

CITY OF SONORA 94 SOUTH WASHINGTON STREET SONORA, CA 95370

KEY NOTES

- LOAD CENTER SHALL BE SQUARE D MODEL Q0816L100RB, 100A, 120/240V AC, 8 SPACES, 10kA, NEMA 3R OUTDOOR RATED.
- CONTRACTOR SHALL VERIFY EXISTING EQUIPMENT RATINGS PRIOR TO ROUGH-IN. IF DISCREPANCIES EXIST, CONTRACTOR SHALL CONTACT ENGINEER OF RECORD.
- 3. THE CONTRACTOR SHALL METER THE EXISTING PANEL FOR A MINIMUM OF 30 DAYS PER NEC 220.87 TO DETERMINE WHETHER IT HAS SUFFICIENT CAPACITY FOR THE ADDITION OF NEW LOADS, WHICH TOGETHER ARE RATED AT 3.65 AMPS AT 240V SINGLE-PHASE. IF THE PANEL LACKS CAPACITY, THE CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THE ADDITION OF A NEW ELECTRICAL SERVICE WITH PG&E. IF THE PANEL HAS SUFFICIENT CAPACITY, THE CONTRACTOR SHALL PROCEED WITH THE CONSTRUCTION AS OUTLINED IN THE CONTRACT DRAWINGS.

FOR A NEW SERVICE, THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION EFFORTS, INCLUDING ISSUING THE REQUIRED DRAWINGS TO PG&E THROUGH A CALIFORNIA-LICENSED ENGINEER AND MANAGING THE PROCESSING AND INSTALLATION OF THE NEW SERVICE WITH PG&E TO ENSURE A FULLY FUNCTIONAL SYSTEM. THE CONTRACT DRAWINGS SHALL BE MODIFIED AS NECESSARY TO INCORPORATE NEW OR MODIFIED EQUIPMENT TO PROVIDE POWER TO THE NEW LIGHTS AND RECEPTACLES WHILE ENSURING COMPLIANCE WITH THE NEC AND LOCAL CITY

ALL NEW SERVICE ELECTRICAL DRAWINGS SUBMITTED TO PG&E SHALL FIRST BE REVIEWED AND APPROVED BY THE CITY BEFORE SUBMISSION.

> **SCHEDULES & ONE-LINE DIAGRAM**

E-6

USERNAME => ktoof PROJECT NUMBER & PHASE RELATIVE BORDER SCALE 50185787 UNIT 0000 BORDER LAST REVISED 7/2/2010 FILE NAME => E6 - Schedules & IS IN INCHES

