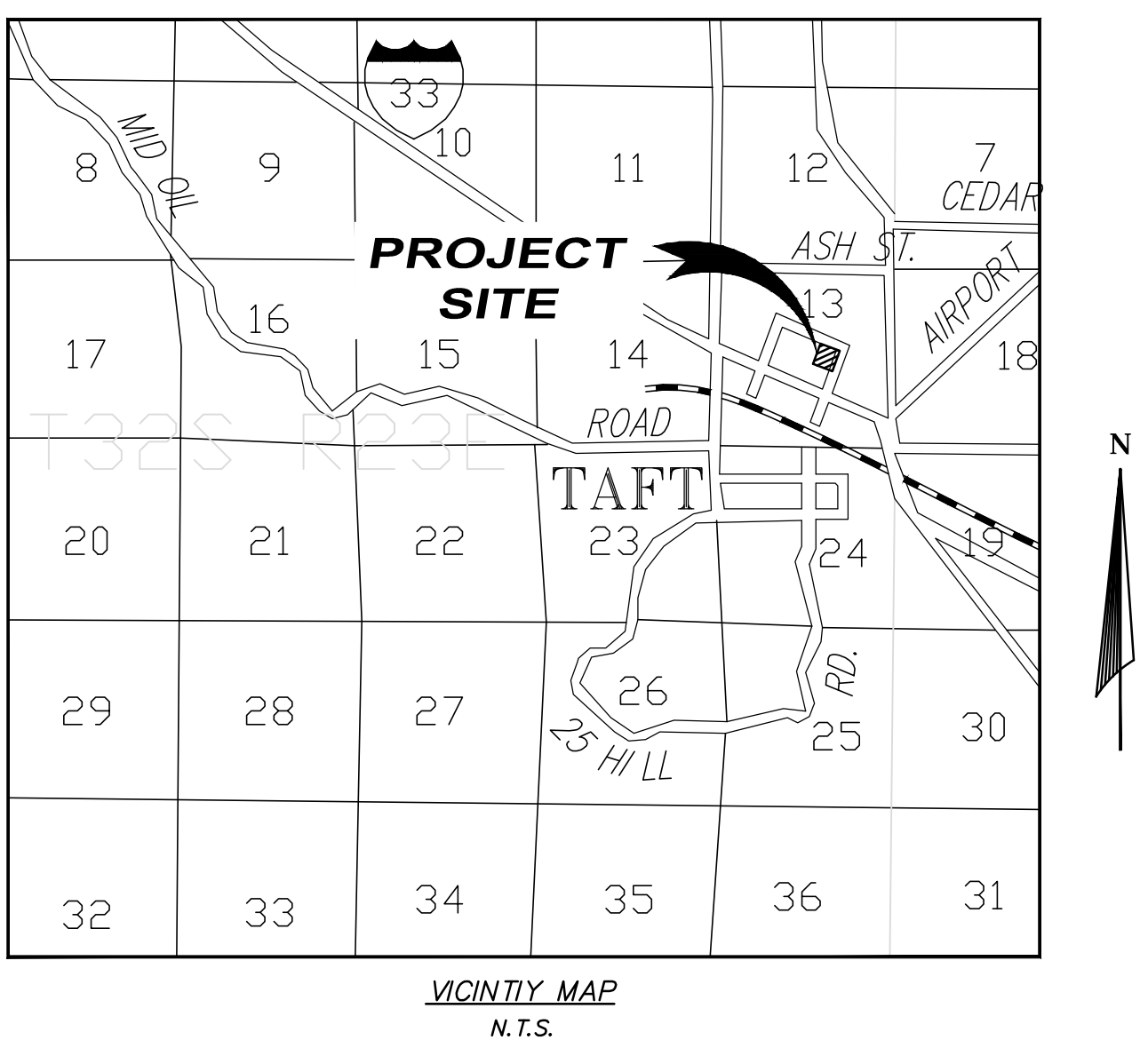
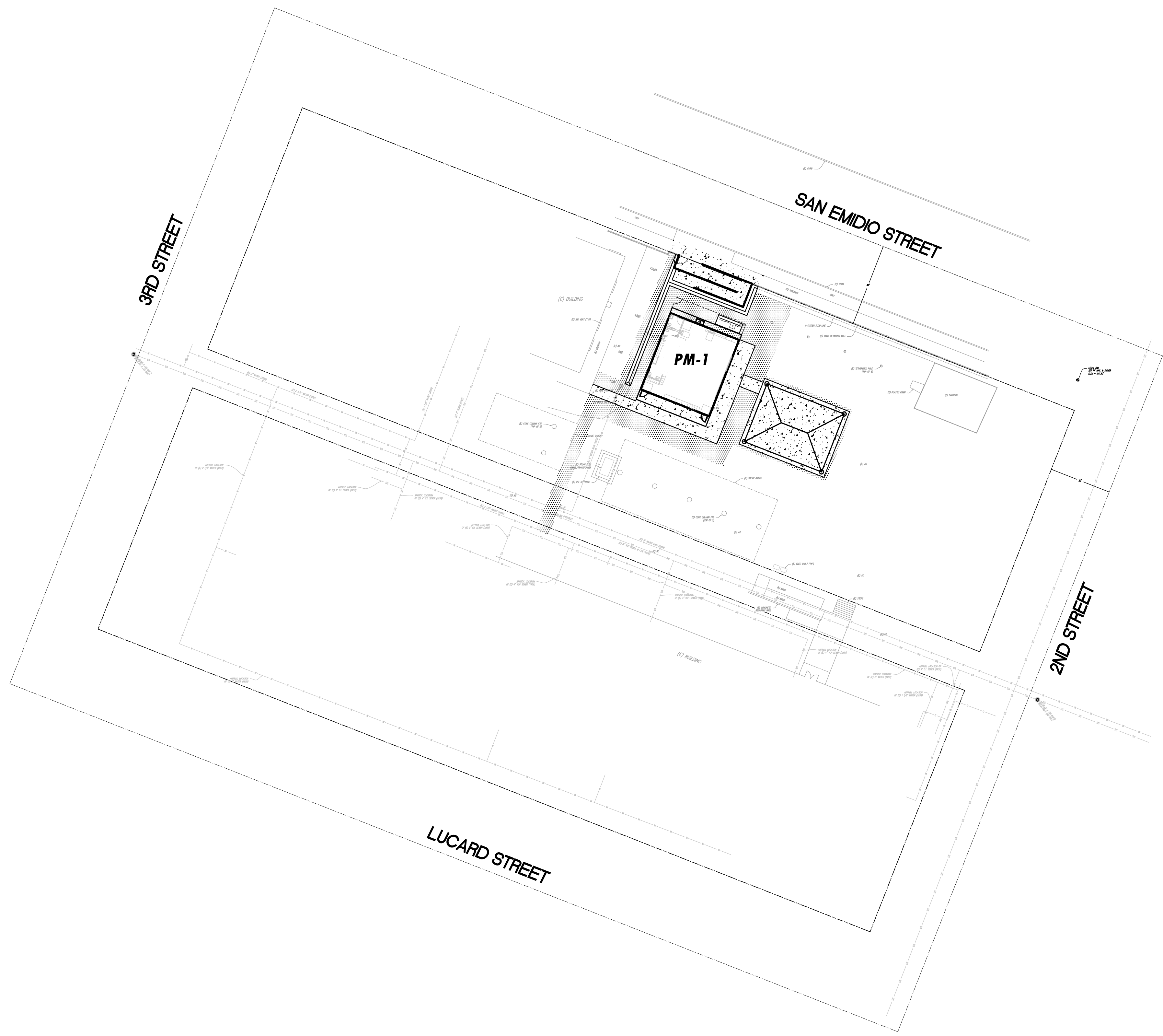


PROJECT DATA

MARK	DATE	REVISIONS
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JOB NO. <div style="font-size: 24px; font-weight: bold; text-align: center;">1333</div>		<div style="font-size: 48px; font-weight: bold;">0.0</div>
DRAWN : ED, FS CHECKED : BCW		<div style="font-size: 24px;">1 OF 87 SHEETS</div>
DATE: 3/26/25		

GRADING PLAN
TAFT PRIMARY ELEMENTARY SCHOOL
NEW PRE-K CLASSROOM
212 LUCARD STREET
TAFT, CA 93268



BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS TAKEN FROM THE TOP OF A BRASS CAP SET IN THE SOUTH CONCRETE HEADWALL, 1.2 FEET EAST OF THE WEST END OF HEADWALL, AT A DOUBLE 36" CORRUGATED METAL PIPE CULVERT LOCATED APPROXIMATELY 0.1 MILE WEST OF THE INTERSECTION OF HIGHWAY 33 AND WOOD STREET, 25.5 FEET SOUTH OF THE CENTERLINE OF WOOD STREET, STAMPED RB M 949 1532 (PND T102111) FOR HCS DATA SHEET UTILIZING A NAD 83, GSD 18 OPS PROJECTION.

ELEVATION = 950.06' (USGS DATUM)

LOCAL BENCHMARK

SET PK NAIL AND SHINY IN ASPHALT APPROXIMATELY 34 FEET WEST OF THE CENTERLINE OF 2ND STREET AND 38 FEET SOUTH OF THE CENTERLINE OF SAN EMIDIO STREET, AT RIGHT ANGLES.

ELEVATION = 917.50'

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS TAKEN FROM BETWEEN FOUND MONUMENTS SET FOR THE CENTERLINE OF LUCARD STREET HAVING A BEARING OF N49°36'00"W, AS SHOWN ON THE TOWN OF MORON MAP RECORDED JULY 20, 1912 IN BOOK OF MAPS 2, PAGE 50, IN THE OFFICE OF THE KERN COUNTY RECORDER.

LEGAL DESCRIPTION

BEING ALL THAT PORTION OF SECTION 13, T.2S., R.2E., M.28.8N., ALSO BEING LOTS 1 THROUGH 32 OF BLOCK 36 AS SHOWN ON THE THIRD ADDITION TO THE TOWN OF MORON MAP RECORDED JULY 20, 1912 IN THE BOOK OF MAPS 2, ON PAGE 50 IN THE OFFICE OF THE KERN COUNTY RECORDER.

ADDRESS

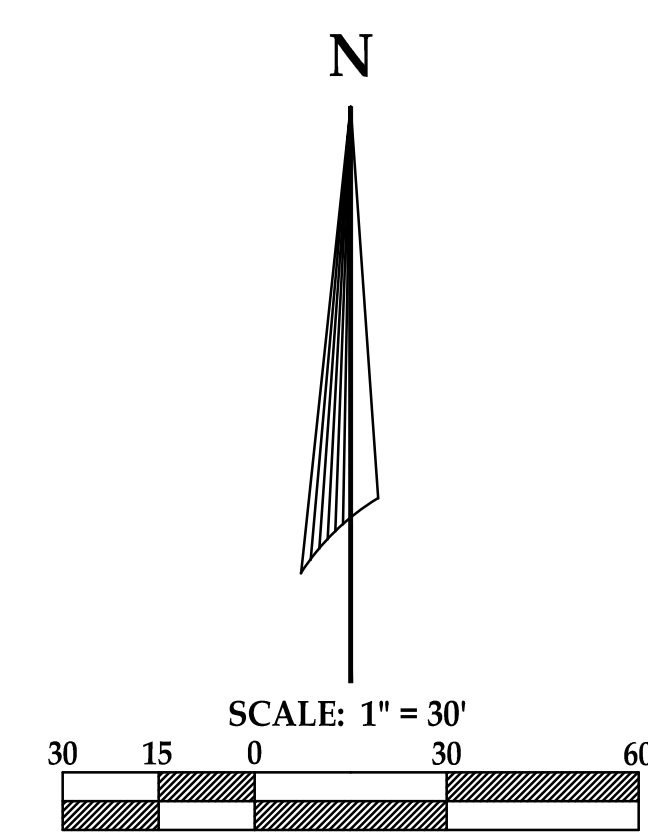
212 LUCARD STREET, TAFT, CA

APN

031-300-01, 02

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION DERIVED FROM OUTSIDE SOURCES.



SWANSON ENGINEERING, INC.
p: (661) 831-4919; f: (661) 873-4777
JOB# 22-058

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

PTN: 63800-028 FILE: 15-87

ONE (1) 36'x40' PERMANENT MODULAR PRE-K CLASSROOM
AT
TAFT PRIMARY ELEMENTARY SCHOOL
212 LUCARD STREET
FOR
TAFT CITY SCHOOL DISTRICT
TAFT, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



STEPHEN J. CORBIN, N.C.A.B., AIA, LEED AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

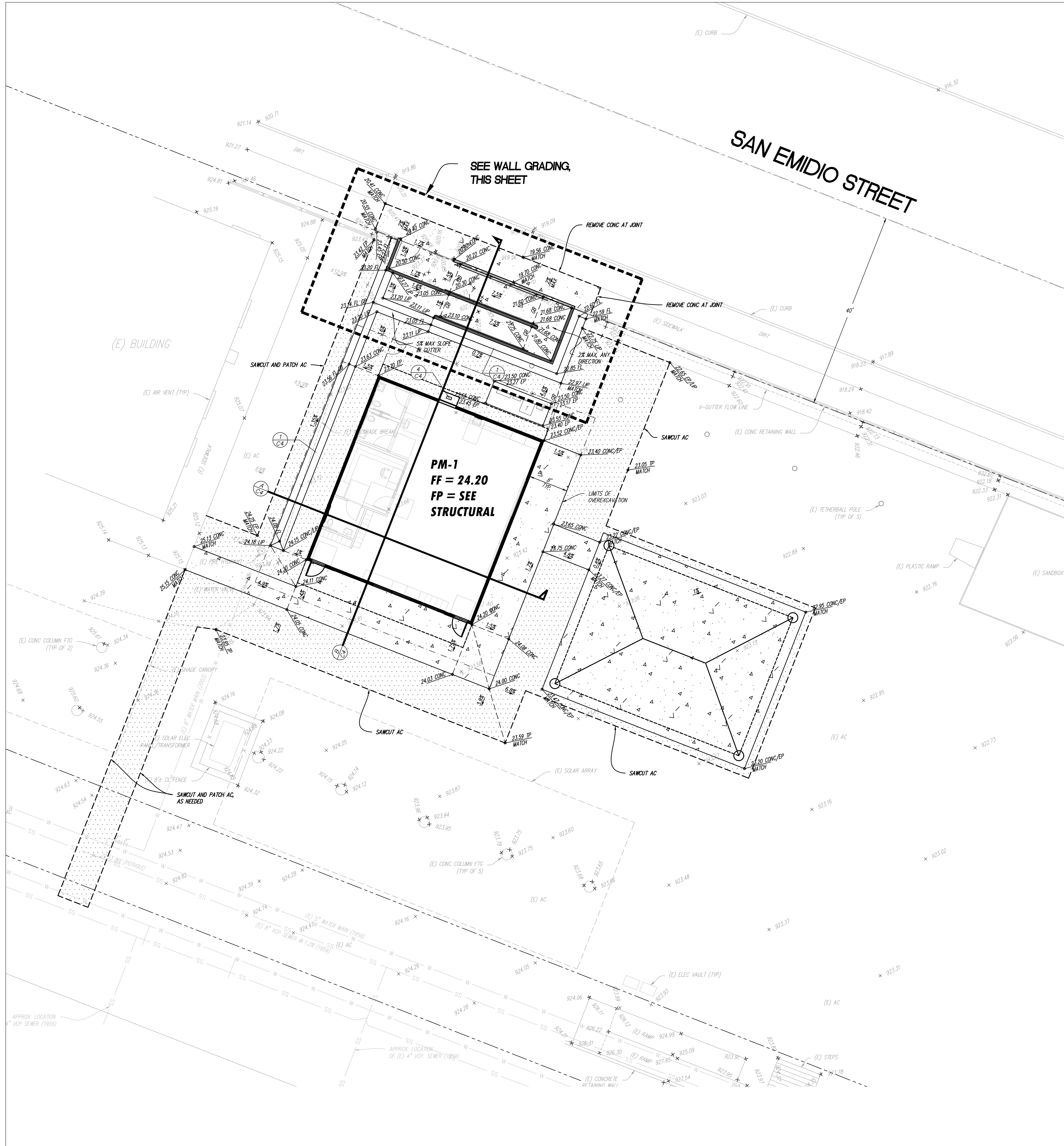


TITLE SHEET

MARK	DATE	REVISIONS
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JOB NO.
1346
DRAWN:
CHECKED:
DATE:
12/8/24

C
1
1 OF 4 SHEETS



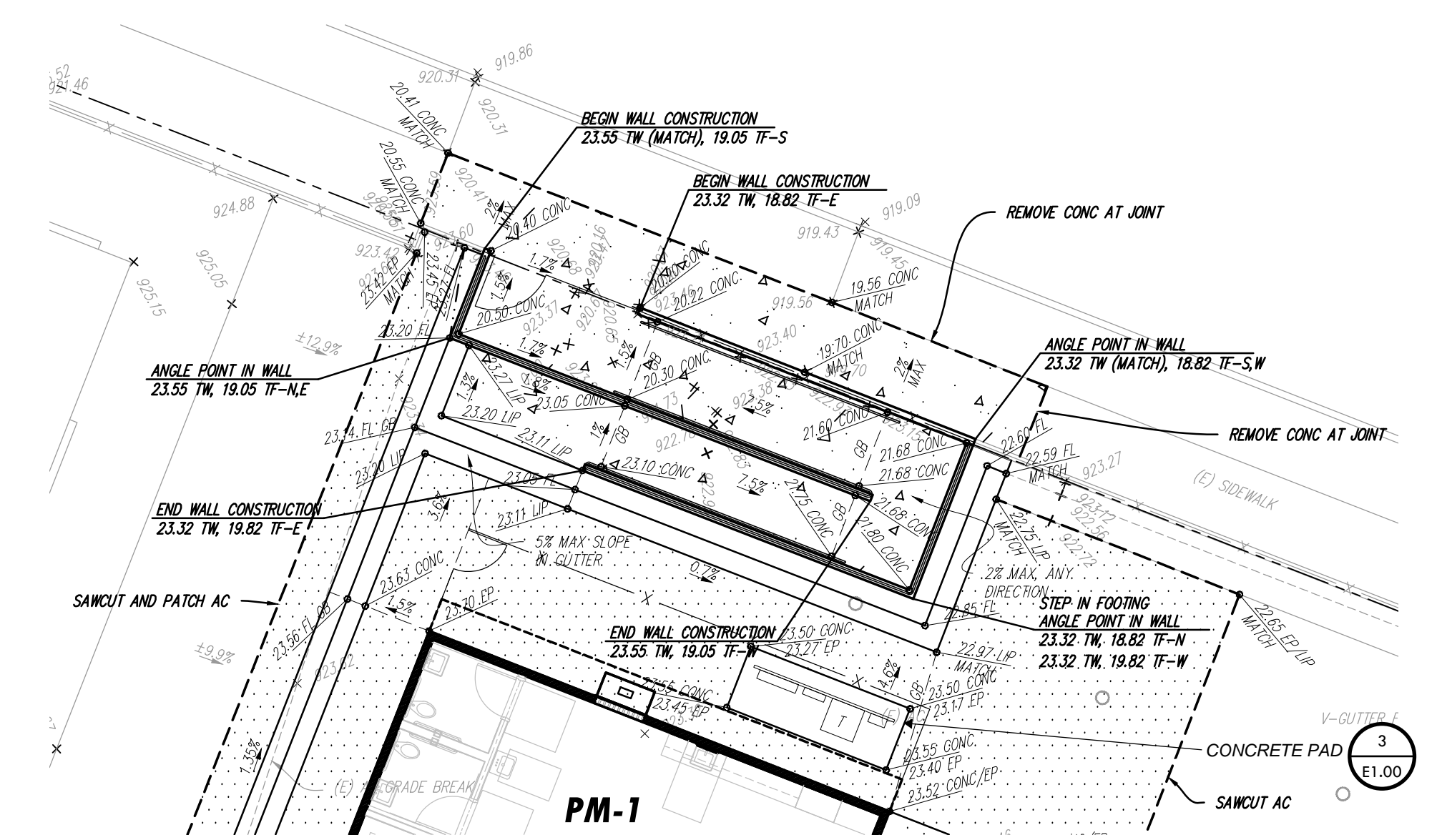
LEGEND:	
ABBREVIATIONS:	
(E) EXISTING	
TPD TYPICAL	
FD FOUND	
BC BOOK	
PC PAGE	
C.O.K. COUNTY OF KERN	
C.O.B. CITY OF BAKERSFIELD	
CONC CONCRETE	
A.C. ASPHALT PAVEMENT	
FG FINISH GRADE	
EP EDGE OF PAVEMENT	
TC TOP OF CURB	
FL FLOWLINE	
FF FINISHED FLOOR	
FP FINISHED PAD	
TP TOP OF PAVEMENT	
GB GRADE BREAK	
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE
	EXISTING STREET LIGHT
	FOUND MONUMENT
	EXISTING TRAFFIC SIGN
	EXISTING STORM DRAIN LINE
	EXISTING FIBER OPTIC LINE
	EXISTING WATER LINE
	EXISTING SEWER LINE
	EXISTING GAS LINE
	EXISTING FENCELINE
	EXISTING ELECTRIC LINE
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING CURB & GUTTER
	EXISTING GROUND CONTOUR LINE & ELEVATION
	MIN. 4" CONCRETE / 12" NATIVE @ 90% SEE ARCHITECTURAL SHEET A10.0 FOR DETAILS
	0.2" AC / 0.5" CLM AGG BASE / 12" NATIVE @ 90%

MISC. UTILITY NOTE

CONTRACTOR TO CALL FOR USA LOCATE AND POT-HOLE ALL MARKED UTILITIES IN CITY AREAS. VERTICAL AND HORIZONTAL LOCATION SHALL BE ASCERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT INTERFERE WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE AFFECTED AREA. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTRUCTING THE UTILITY COMPANY TO RELOCATE THE UTILITY. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ITS REPAIR.

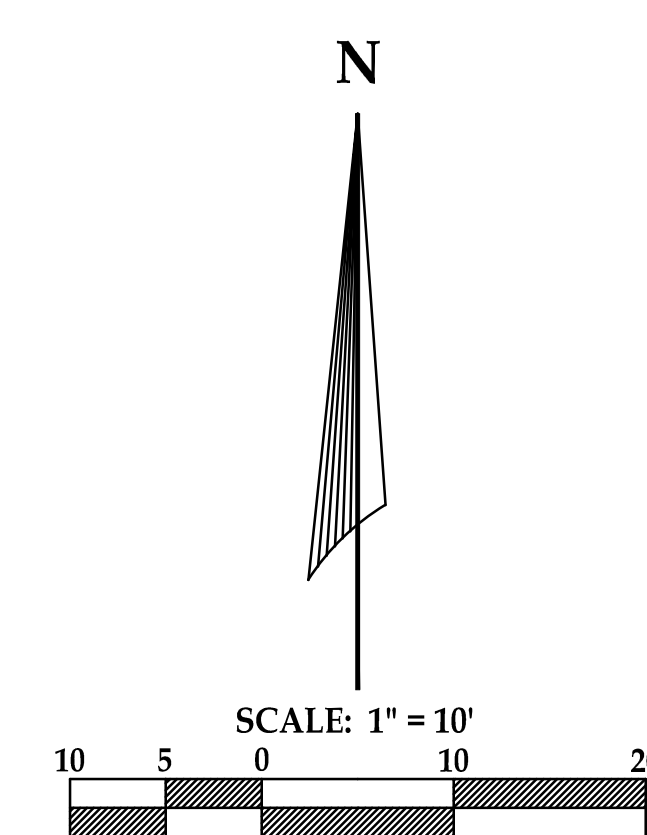
UTILITY BOXES/LIDS

UTILITY BOXES, VAULTS, AND LIDS THAT ARE TO REMAIN SHALL BE ADJUSTED TO GRADE. CONTRACTOR TO FIELD VERIFY ACTUAL NUMBER TO BE ADJUSTED.



WALL GRADING

SCALE: 1"=10'



SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93309
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JOB# 22-058

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DIV. OF THE STATE ARCHITECT
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SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

PTN: 63800-028 FILE: 15-87

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212 LUCARD STREET
FOR
TAFT CITY SCHOOL DISTRICT
TAFT, KERN COUNTY, CALIFORNIA



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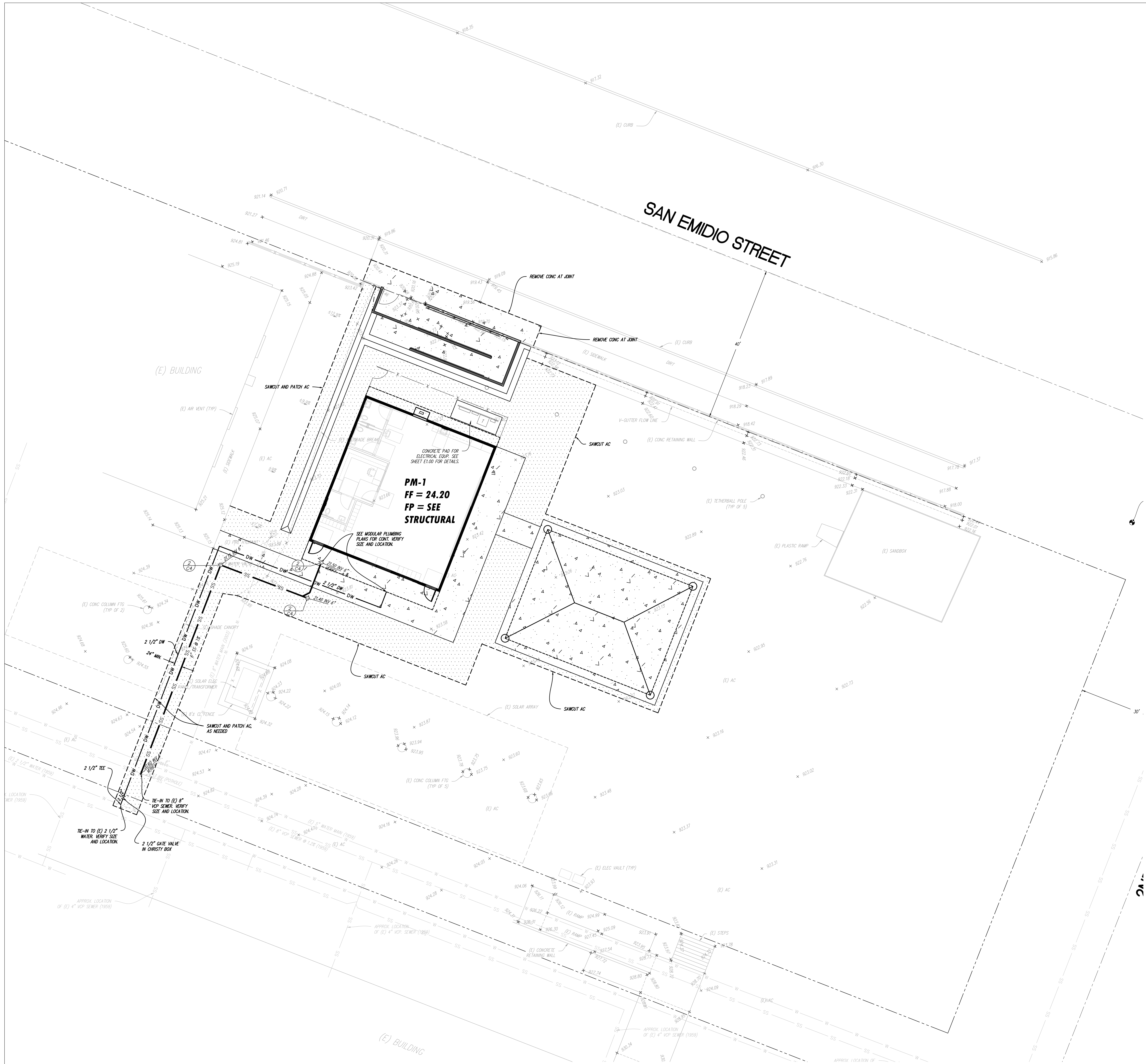


GRADING PLAN

MARK	DATE	REVISIONS
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JOB NO.
1346
DRAWN:
CHECKED:
DATE:
12/8/24

2
2 OF 4 SHEETS



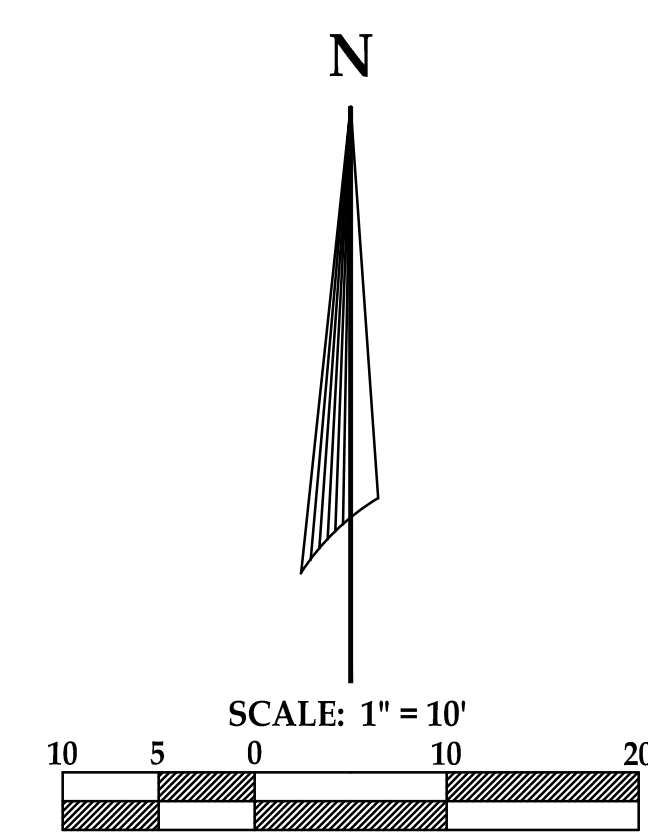
- LEGEND:**
- | | |
|----------|--|
| EXISTING | EXISTING FIRE HYDRANT |
| TYPICAL | EXISTING FIBER OPTIC LINE |
| FOUND | EXISTING WATER LINE |
| BOOK | EXISTING SEWER LINE |
| PAGE | EXISTING GAS LINE |
| C.O.K. | EXISTING FENCE LINE |
| C.O.B. | EXISTING ELECTRIC LINE |
| CONC. | EXISTING OVERHEAD ELECTRIC LINE |
| A.C. | EXISTING PROPERTY LINE |
| FG | EXISTING RIGHT-OF-WAY |
| TC | EXISTING CURB & GUTTER |
| FL | EXISTING GROUND CONTOUR LINE & ELEVATION |
| FT | NEW DOMESTIC WATER LINE |
| FP | NEW SANITARY SEWER LINE |
| TP | |
| GB | |

UTILITY TRENCH

UTILITIES SHALL BE INSTALLED PER DETAIL 3, SHEET C4.

UTILITY BOXES/LIDS

UTILITY BOXES, VAULTS, AND LIDS THAT ARE TO REMAIN SHALL BE ADJUSTED TO GRADE. CONTRACTOR TO FIELD VERIFY ACTUAL NUMBER TO BE ADJUSTED.



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STEPHEN J. CORBIN, NCB, AIA, LEED® AP

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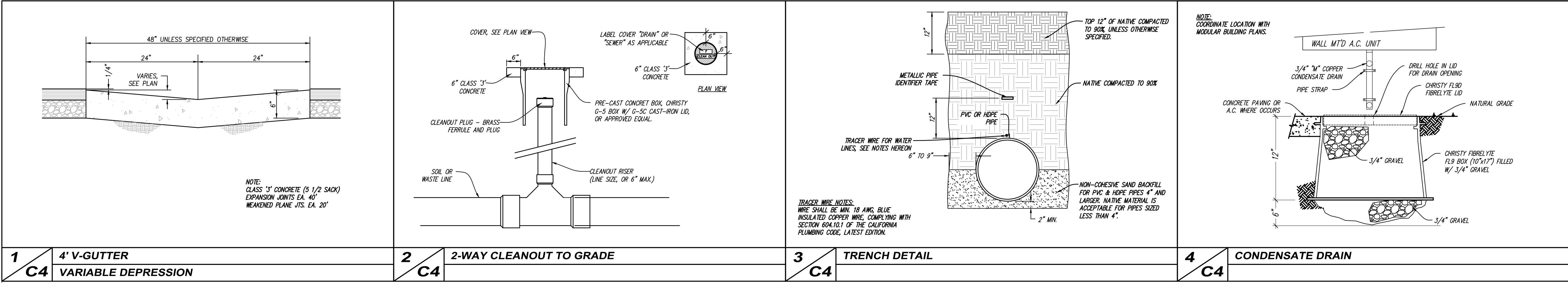
STATE OF CALIFORNIA
PLANNING & COMMUNITY DEVELOPMENT

SITE UTILITY PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1346
DRAWN:
CHECKED:
DATE: 12/8/24

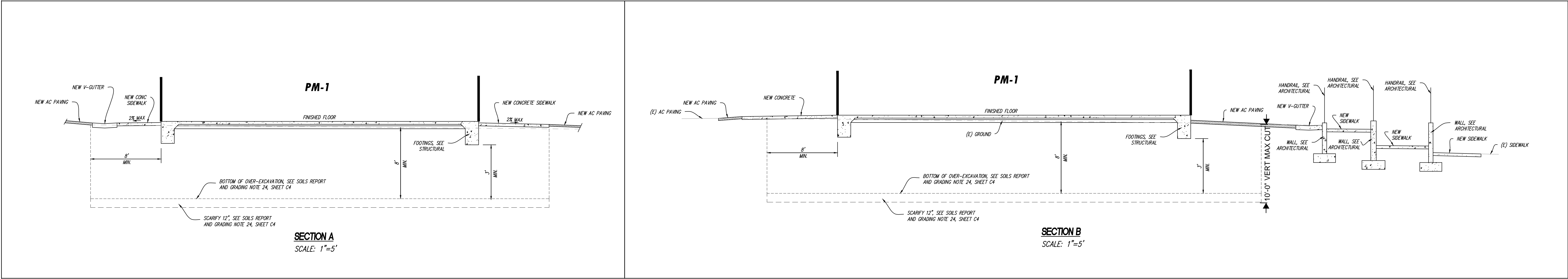
C
3
3 OF 4 SHEETS



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
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212 LUCARD STREET
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TAFT, KERN COUNTY, CALIFORNIA



DRAWING NOTES

1. ALL GRADING SHALL CONFORM TO THE CITY OF TAFT ORDINANCES AND STANDARDS PERTAINING THEREIN (CALIFORNIA BUILDING CODE, 2022) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CITY OF TAFT ORDINANCES.
2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.
3. THE SOIL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACING ANY MATERIAL.
4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DETECT, REMEDY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.
5. THE GRADING CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (054 - 011)
6. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL AREAS TO A ± 0.0 FOOT IF AN AREA SHOULD BE FOUND TO BE MORE THAN 0.10 FOOT OUT OF TOLERANCE AFTER COMPACTING AND COMPLETION OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT HIS COST TO THE OWNER. GRADING TOLERANCE FOR FINISH PAVES SHALL BE ± 0.0 FOOT TO -0.04 FOOT.
7. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER GRADIENTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY UNITED AIR POLLUTION CONTROL DISTRICT REGULATIONS.
8. EXCAVATION - EXCAVATION SHALL CONSIST OF ALL EXCAVATION INVOLVED IN GRADING THE PROJECT AS SHOWN ON THE PLANS. THIS SHALL INCLUDE EXPORTING MATERIAL TO AN OFF-SITE LOCATION, AS REQUIRED.
9. EMBANKMENTS - EMBANKMENT CONSTRUCTION SHALL CONSIST OF CONSTRUCTING EMBANKMENTS, INCLUDING THE PREPARATION OF AREAS WHERE THEY ARE TO BE PLACED, THE CONSTRUCTION OF DROPS WITHIN OR OUTSIDE THE CONSTRUCTION AREA, THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN THE CONSTRUCTION AREA WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED, AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLLS, PITS, AND DEPRESSIONS. IT SHOULD ALSO CONSIST OF PREPARING SUB-GRADE AT THE GRADING PLANE, CONFORMING TO THE GRADE TOLERANCE, DOING NECESSARY PLOWING OR BENCHING, IMPORTING OR EXPORTING, PLACING AND COMPACTING MATERIAL TO THE LINE AND GRADING SHOWN ON THE PLANS, ALL EMBANKMENT.
10. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY 2010 (UNLESS OTHERWISE SPECIFIED), INsofar AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HEREIN. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREIN, THE NOTES HEREIN SHALL TAKE PRECEDENCE, OVER AND BE USED IN LEV OF WHICH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:
a) ALL CONCRETE SHALL BE CLASS "3" (USING TYPE I/A CEMENT AS IN ACCORDANCE WITH SECTION 80 AND SHALL HAVE AT LEAST 2000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.
b) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1 1/2" MAXIMUM MEDIUM GRADED, AND FINELY MIXED WITH 5-4.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006). NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64-10.

11. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.
12. ALL GRADING SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PRELIMINARY SOILS REPORT, MADE A PART HEREOF, PREPARED BY SOILS ENGINEERING, INC., FILE NO. 23-18762, DATED MARCH 2, 2023, TITLED "GEO-TECHNICAL INVESTIGATION FOR THE TAFT PRIMARY ELEMENTARY SCHOOL MODULAR BUILDING, 212 LUCARD STREET, TAFT, KERN COUNTY, CALIFORNIA", AND ALL ADDENDA THEREIN. IN CASE OF A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS, AND SOILS RECOMMENDATIONS, THE MORE STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE.
13. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POT-HOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
14. UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT SHALL BE PREPARED BY THE SOIL ENGINEER.
15. THE SOIL ENGINEER SHALL REVIEW ALL EXCAVATIONS PRIOR TO BACKFILLING AND SHALL BE NOTIFIED OF ANY ITEM ENCOUNTERED DURING THE GRADING OPERATIONS THAT MIGHT AFFECT FOUNDATION STABILITY SO THAT RECOMMENDATIONS CAN BE MADE BY THE SOIL ENGINEER.
16. CUT AND FILL SLOPES NEARER THAN FIVE FEET FROM THE BUILDING FOUNDATIONS SHALL NOT BE STEEPER THAN 3:1. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 FOR SLOPES FARTHER THAN FIVE FEET FROM FOOTING LINES.
17. ALL SLOPES GREATER THAN THREE FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO PREVENT EROSION.
18. IMPORTED FILL MATERIAL SHOULD CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROCKS LARGER THAN TWO INCHES IN DIAMETER, DEBRIS, AND SOLUBLE SULFATES IN EXCESS OF 200 PARTS PER MILLION. IMPORTED FILL SHOULD CONTAIN SUFFICIENT SILT AND CLAY FINER TO RENDER FIRM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS. ANY EARTHEN MATERIALS PROPOSED TO BE BROUGHT ONTO SCHOOL SITES ARE SUBJECT TO TESTING TO VERIFY THEY ARE IN COMPLIANCE WITH DTSC STANDARDS. OWNER SHALL DETERMINE IF TESTING OF MATERIALS IS REQUIRED PRIOR TO ANY MATERIAL BEING BROUGHT ONTO THE SITE. TESTING OF MATERIALS MAY TAKE UP TO TWO WEEKS TO VERIFY COMPLIANCE WITH DTSC STANDARDS.
19. IMPORTED SOILS SHOULD ALSO MEET THE FOLLOWING CRITERIA:
a) MAXIMUM # PERCENT #200 SIEVE: 40
b) MAXIMUM LIQUID LIMIT: 40
c) MAXIMUM PLASTICITY INDEX: 14
d) MINIMUM P-VALUE: 50
e) MAXIMUM ORGANIC: 20
20. CLEARING AND GRUBBING - REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, ROCKS GREATER THAN 12" IN DIAMETER, BROKEN CONCRETE, VEGETATION, OTHER DEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.
21. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS (LESS THAN EIGHT INCHES UNCOMPACTED THICKNESS), BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

22. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF-SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF-SITE LOCATION, AS NEEDED.
23. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT THE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
24. BUILDING PAD PREPARATION: EXCAVATE EARTH MATERIAL TO A MINIMUM DEPTH OF EIGHT (8) FEET BELOW EXISTING GRADE OR THREE (3) FEET BELOW BOTTOM OF FOUNDATIONS, WHICHEVER IS DEEPER. THE BOTTOM OF THE EXCAVATION SHALL BE REVIEWED BY THE SOIL ENGINEER OR HIS REPRESENTATIVE PRIOR TO ANY BACKFILL OPERATIONS. THE TOP THREE INCHES OF MATERIALS EXPOSED AT THE BOTTOM OF THE EXCAVATION SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM OF 90 PERCENT OF ASTM D1557 MOISTEN IMPORTED SOILS TO NEAR THE OPTIMUM MOISTURE OR TO A MOISTURE CONTENT CONSISTENT WITH EFFECTIVE COMPACTION AND SOIL STABILITY. COMPACT MOISTENED SOILS TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINED BY ASTM TEST METHOD D1557. WORK TO LINES AT LEAST EIGHT (8) FEET BEYOND THE OUTSIDE EDGES OF EXISTING FOOTINGS AND TWO FEET BEYOND PAVEMENT EDGES.
25. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 18 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.
26. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR PROTECTING EXISTING AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.A. PERMITS WHEN WORKMEN MUST EXCEED TRENCHES DEEPER THAN FIVE FEET.
27. MAXIMUM SLOPE RATIO FROM BACK OF SIDEWALK TO FACE OF WALL OR STRUCTURE SHALL BE 4:1, EXCEPT FOR TWO FEET BEHIND THE SIDEWALK WHERE THE MAXIMUM SLOPE SHALL BE 2:1. ALTERNATIVELY, THE CITY ENGINEER MAY APPROVE CURBING BEHIND THE SIDEWALK OR OTHER METHOD TO PREVENT EROSION ONTO THE SIDEWALK.
28. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF TAFT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT OF WAY.
29. IF THE PROJECT IS SUBJECT TO THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), A "NOTICE OF INTENT" (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (OWNER ORDER NO. 2002-0057-0000, SUPERSEDING ORDER 2000-008-000-0000) MUST BE FILED WITH STATE WATER RESOURCES CONTROL BOARD IN CASHMANTO BEFORE THE BEGINNING OF ANY CONSTRUCTION ACTIVITY. COMPLIANCE WITH THE GENERAL PERMIT REQUIRES THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BE PREPARED, CONTINUOUSLY CARRIED OUT, AND ALWAYS BE AVAILABLE FOR PUBLIC INSPECTION DURING NORMAL CONSTRUCTION HOURS.

SEWER NOTES:

GENERAL

1. CONTRACTOR WILL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION.
2. MATERIALS - PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF THE CURRENT ASTM SPECIFICATION D-3034 FOR SDR35 PVC PIPE AND FITTINGS SHALL BE HOMOGENEOUS THROUGHOUT AND FREE FROM CRACKS, HOLES, FOREIGN INCLUSIONS, OR OTHER INJURIOUS DEFECTS.
3. JOINTS - USE ONLY ELASTOMERIC GASKET JOINTS. THE ASSEMBLY OF JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE PVC PIPE CONNECTS TO VSP PIPE, USE ONLY COUPLINGS APPROVED BY THE CITY OF BAKERSFIELD.
4. INSTALLATION - PIPE AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION D-3034, ONLY CLASS 1 AND 1/2 EMBEDED MATERIALS WILL BE CONSIDERED SUITABLE.

SYSTEM TESTING

1. A PRESSURE TEST SHALL BE PERFORMED ON INSTALLED PIPE IN ACCORDANCE WITH THE CITY OF BAKERSFIELD SUBDIVISION DESIGN MANUAL AND THE RECOMMENDATIONS OF THE MANUFACTURER.

WATER NOTES:

1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF TAFT WATER DEPARTMENT CURRENT STANDARDS AND SPECIFICATIONS FOR DOMESTIC WATER SYSTEMS.
2. CONNECTION TO THE CITY OF TAFT WATER SYSTEM SHALL NOT BE ALLOWED AND INSPECTIONS WILL NOT OCCUR WITHOUT VERIFICATION OF PAYMENT OF ALL ASSOCIATED WATER AVAILABILITY FEES, INSPECTION/METER SET FEES, AND APPROVAL OF WATER PLANS BY THE WATER RESOURCES DEPARTMENT.
3. NOT USED.
4. WATERLINE TRENCHES SHALL NOT BE SHARED WITH ANY OTHER UTILITY. THIS REQUIREMENT SHALL BE CLEARLY INDICATED ON THE WATER AND UTILITY PLANS FOR THE DEVELOPMENT.
5. CONTRACTOR SHALL VERIFY, BY POT-HOLING, THE EXACT LOCATION OF ALL CONNECTION POINTS AND ALL OTHER UTILITIES OR APPURTENANCES THAT MAY POTENTIALLY INTERFERE WITH INSTALLATION OF WATER IMPROVEMENTS PRIOR TO PERFORMING ANY WORK.
6. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (811) AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, 1-800-222-2600.
7. NOT USED.
8. CONTRACTOR SHALL ENSURE THAT ALL FIRE HYDRANTS ARE NOT PLACED WITHIN THE FEET OF ANY EXISTING OR PROPOSED WALLS, FENCES, STREET LIGHTS, AND LANDSCAPING OR ANY OTHER OBSTRUCTIONS.
9. ANY EXISTING OR PROPOSED TREE SHALL HAVE A MINIMUM OF FIVE FOOT (5') HORIZONTAL CLEARANCE FROM ANY WATER MAINLINE.

MISCELLANEOUS

1. PIPE FITTINGS SHALL BE INJECTION MOLDED IN-LINE TYPE AND SHALL BE USED FOR ALL LATERAL CONNECTIONS.
2. ALL SEWER STUBS SHALL BE CLOSED WITH A STANDARD PLASTIC PLUG, SOLVENT WELDED.
3. WATER JETTING AND FLOODING SHALL NOT BE USED FOR BACKFILL COMPACTION.
4. UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS BEFORE CONSTRUCTION. TELEPHONE (1-800-642-2444).
5. CONTRACTOR TO CALL FOR USA LOCATE AND POT-HOLE ALL MARKED UTILITIES THAT CROSS OR ARE WITHIN 5' HORIZONTAL DISTANCE OF SEWER AND STORM DRAIN LINES. VERTICAL AND HORIZONTAL LOCATION SHALL BE ASCERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE ALIGNMENT. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE COMPENSATED FOR INSTRUCTED RELOCATION. IF REDRESS OF THE ALIGNMENT REQUIRES ADDITIONAL FITTINGS, PIPE, OR EXCAVATION THE CONTRACTOR SHALL BE COMPENSATED FOR REVISION. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ITS REPAIR.
6. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING SEWER AND STORM DRAIN LINES THAT THE NEW SYSTEM TIES INTO PRIOR TO TRENCHING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER SO THAT ANY NECESSARY ADJUSTMENTS MAY BE MADE. UTILITIES SHALL BE THOROUGHLY RESEARCHED AND LOCATED BY THE CONTRACTOR PRIOR TO TRENCHING. CROSSING UTILITIES SHALL BE DAYLIGHTED AND CHECKED FOR GRADE BY THE CONTRACTOR PRIOR TO TRENCHING.



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BAKERSFIELD, CA 93309
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STEPHEN J. CORBIN, N.CARB, AIA, LEED [®] AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.E.C.



DETAILS

MARK	DATE	REVISIONS
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JOB NO.	1346
DRAWN:	
CHECKED:	
DATE:	12/8/24

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4

4 OF 4 SHEETS



SWANSON
ENGINEERING, INC.

2000 Oak Street, Suite 150 ~ Bakersfield, CA 93309
p: (661) 831-4919; f: (661) 873-4777

ADSA **810**
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and/or site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgment by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and signed onto the fire access site plan. When an alternate design means is proposed, all sections on pages 1 and 2 are to be completed and signed on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION		
School District/Name: TAFT CITY SCHOOL DISTRICT		
Project Name/School: ONE (1) NEW PERMANENT MODULAR PRE-K CLASSROOM/ TAFT PRIMARY ELEMENTARY SCHOOL		
Project Address: 212 LUCARD STREET, TAFT, CA 93268		
FIRE & LIFE SAFETY INFORMATION		
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ location below.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Refer to the following website for FHSZ location: http://maps.fire.ca.gov/FHSZ/		Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)		WIFA <input type="checkbox"/>

DSR DSA 810 (revised 12/2020) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED
4. Emergency vehicle access roadways do not meet CFC requirements.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	
5. Fire Hydrants: Number and spacing does not meet CFC requirements.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	
7. Location of fire department connection(s) serving the sprinkler systems or standpipes systems does not meet CFC requirements.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.	

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Steven Gragg Title: Chief Business Official
Signature: *[Signature]* Date: 7/25/24

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: KERN COUNTY FIRE DEPARTMENT
LFA Review Official: JANET HUFFAKER
Title: FIRE PLAN EXAMINER Work Phone: (661) 330-0155
Work Email: jhuffaker@kerncountyfire.org

LFA Reviewer's Signature: *[Signature]* Date: 7/24/24

DSR DSA 810 (revised 12/2020) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 2 of 4

Hydrant Flow Test Report

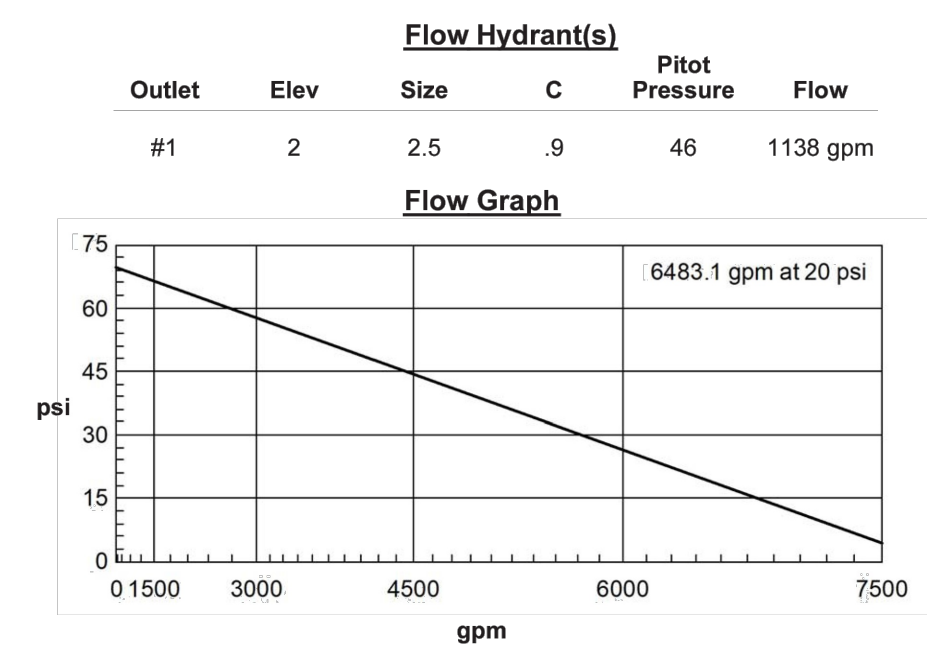
Test Date: 01-10-24 Test Time: 11:38 AM

Location
TAFT PRIMARY ELEMENTARY
212 LUCARD ST.
TAFT, CA. 93268

Tested by
JIM TERRAZAS &
VINCE QUIDACHAY
CONTROL FIRE PROTECTION, INC.
1347 OGDEN ST.
BAKERSFIELD, CA. 93305

Notes
HYDRANT A: STATIC/RESIDUAL
HYDRANT B: FLOW

Read Hydrant
70 psi static pressure
68 psi residual pressure
2 ft hydrant elevation



Created with the free hydrant flow test program from www.gpsrinc.com

ENTRY RESTRICTED AND CONTROLLED BY SECURITY PERSONNEL

NOTES:

1. MOUNT ON APPROACH SIDE AND SHALL COMPLY WITH 2022 CBC SECTION 11B-103.5
2. IF SIGN IS TO BE MOUNTED ON FENCE, PLACE AT +36" ABOVE WALK TO BOTTOM OF SIGN
3. THE STATEMENT ABOVE SHALL READ IN 1" HIGH LETTERS AS SHOWN WITH CONTRASTING COLORS. COLORS SHALL BE SELECTED BY ARCHITECT
4. SEE PLANS FOR EXACT LOCATIONS.

SITE PLAN GENERAL NOTES

1. SEE ELECTRICAL SITE PLANS FOR ADDITIONAL SITE RELATED WORK. CONTRACTOR SHALL COORDINATE ALL WORK AS REQ'D TO ENSURE A COMPLETE & FINISHED PROJECT.
2. CONTRACTOR TO TAKE ALL NECESSARY AND REQUIRED MEASURES TO PROTECT (E) IRRIGATION & TURF AREAS WITHIN THE JOB SITE, AND SHALL BE RESPONSIBLE TO REPLACE ANY OR ALL BROKEN IRRIGATION SYSTEMS, RESEED TURF AS REQUIRED.
3. CONTRACTOR TO FV ALL (E) UTILITY BOXES, (E) VALVES, ETC. IN AREA OF SCHEDULED WORK, DEMO, REMOVE, RELOCATE AND/ OR MODIFY AS NECESSARY TO COMPLETE THE WORK INDICATED. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS.
4. CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF PERFORMING THE WORK REQUIRED.

PATH OF TRAVEL

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. POT IS A MINIMUM OF 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PASSING SPACES (11B-403.5.3) AT LEAST 60"x60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF POT WITH CONTINUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400'. MAXIMUM (11B-403.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1). SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDINGS. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS AND OBJECTS PROJECTING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT SHALL VERIFY THAT NO BARRIERS EXIST IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL, IN GENERAL, RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

EMERGENCY RESPONDER RADIO COVERAGE

NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

BUILDING CODE ANALYSIS

BUILDING DESIGNATION	APPLICATION #	MODULAR #	BUILDING USE	BLDG OCC TYPE	TYPE OF CONST	BASIC ALLOWABLE AREA	ACTUAL HT STRY/FT	ACTUAL AREA	OCCUPANT LOAD	TOTAL OCCUPANCY
MODULAR BUILDING	PER THIS APPLICATION	PM-1	CLASSROOMS	E-1	V-N	9,100	1 STRY/12'-0"	1,440 SF	1440/20 =	72
SHADE STRUCTURE	PER THIS APPLICATION	-	SHADE STRUCTURE	A-3	V-B	-	1 STRY/11'-8"	1,200 SF	1200/16 =	80

ACCESSIBLE EGRESS

MINIMUM REQUIRED EGRESS WIDTH PER CBC 2022, SEC 1005.1		MINIMUM REQUIRED EXIT PER CBC 2022 1006	
OCC X 0.2	EGRESS WIDTH (N) PROVIDED	OCC X 44 (1) EXIT REQ'D	NO. OF EXITS PROVIDED
14.4	36	1	2
-	-	-	-

SAFE DISPERSAL AREA

PER CBC 2022 452.1.3 & 1029.5	
MAX OCCUPANTS X 3 = MIN AREA #	236# REQUIRED
MAX OCC/200 = 72 X 3 = 216#	16'x15' = 240#
MIN WHEELCHAIR SP REQ'D, 1/2 2 SF MIN	W/ (2) WHEELCHAIR SPACES PROVIDED, SEE SHEET A1.0 AREA ⑥

GATE SCHEDULE

GATE #	SIZE (EACH LEAF)	MAT'L	FRAME MAT'L	HDWR #	DETAIL	SIGN TYPE	REMARKS	GATE #
1	8'-0"x6'-0"	CL	CL	-	17/A10.0	--	MAINTENANCE GATE	1
2	8'-0"x9'-0"	CL	CL	-	17/A10.0	A	PROVIDE KNOX BOX	2
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

CAMPUS DIRECTORY

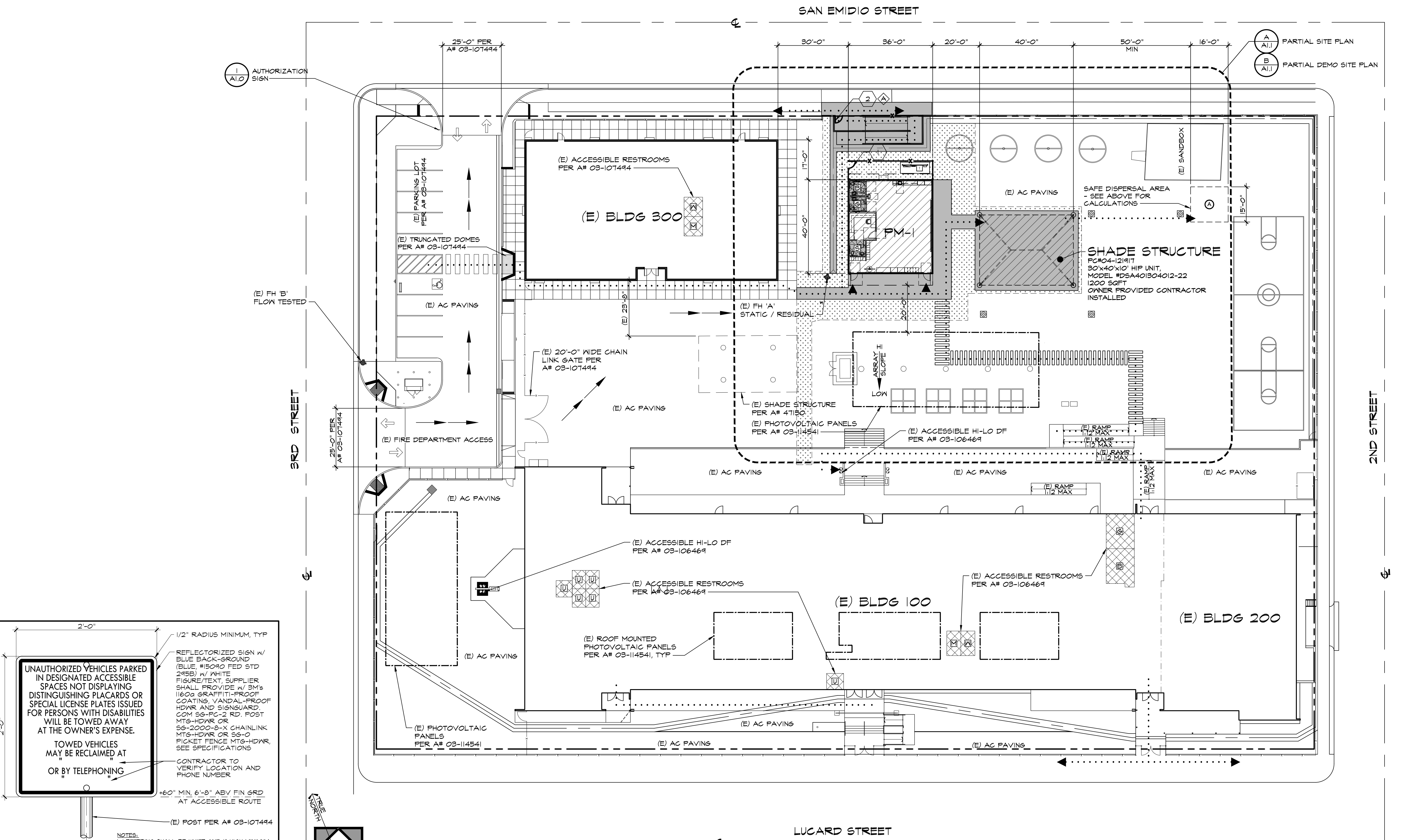
BLDG ID#	BUILDING DESCRIPTION	DSA A#	CERTIFICATION STATUS/ DATE, LETTER TYPE
(E) BLDG 100	(E) WING 'A'	17444 03-107444	CERTIFIED, 3/1/1960 #1 CERTIFICATION, 1/5/2007
(E) BLDG 200	(E) WING 'B'	17444	CERTIFIED, 3/1/1960
(E) BLDG 300	(E) LIBRARY/MEDIA CENTER BLDG	03-107444	#1 CERTIFICATION, 10/4/2007
PM-1	PERMANENT MODULAR CLASSROOM	---	PER THIS APPLICATION

PARKING ANALYSIS

(E) PARKING LOT PER DSA A# 03-107444	
REGULAR STALLS	80
ACCESSIBLE STALLS	0
ACCESSIBLE VAN STALL	4
TOTAL	84

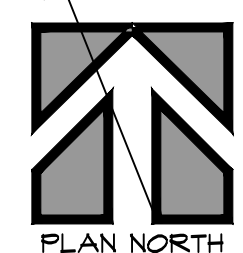
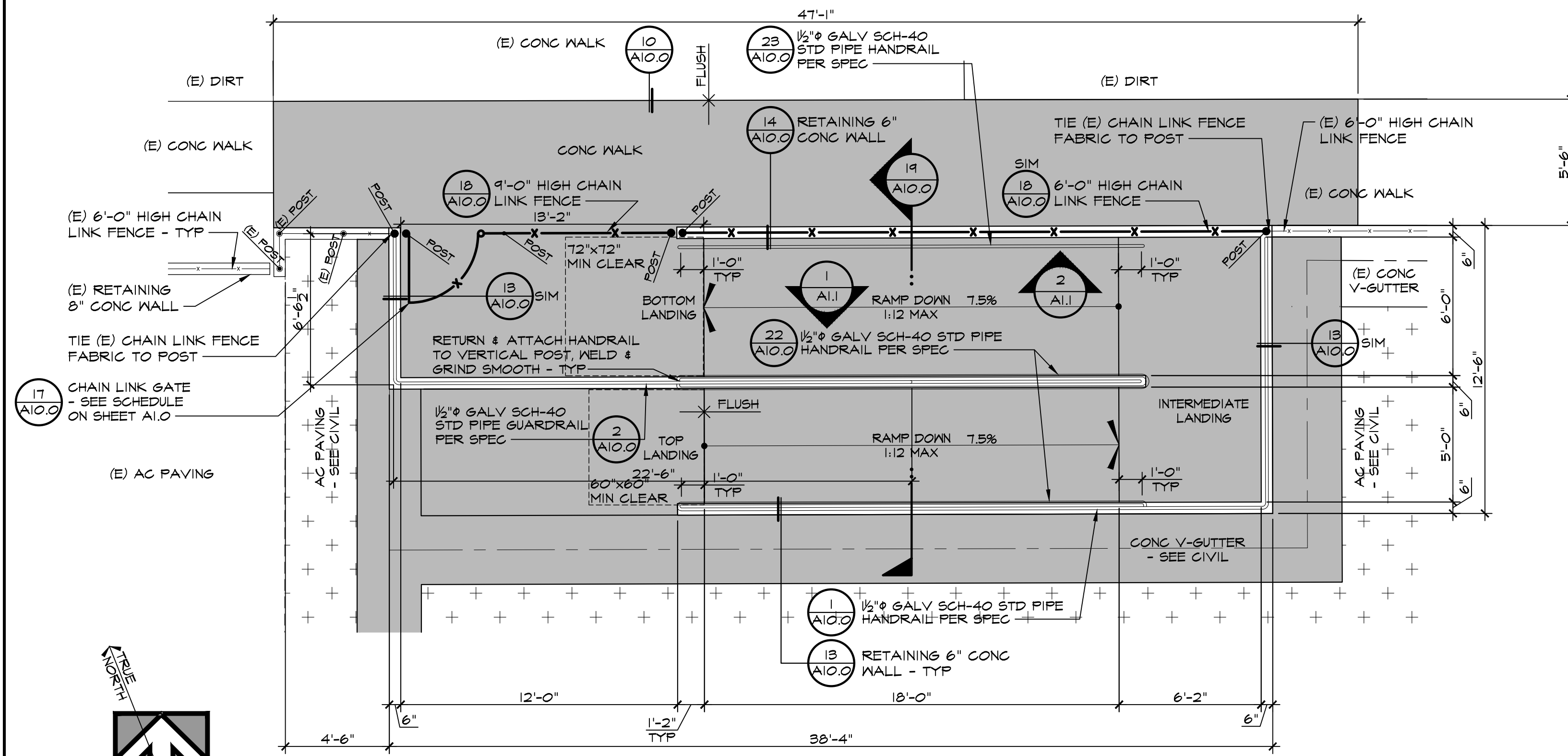
LEGEND

	(E) BUILDING NO WORK SCHEDULED		ACCESSIBLE RESTROOM		PATH OF TRAVEL		(E) CHAIN LINK FENCE
	PROPOSED MODULAR BUILDING/SHADE STRUCTURE		CONCRETE WALK (11 A10.0)		(E) FIRE DEPARTMENT ACCESS		CHAIN LINK FENCE (18 A10.0)
	(E) ACCESSIBLE RESTROOM		AC PAVING SEE CIVIL		PROPERTY LINE		GATE, SEE SCHEDULE



LEGEND

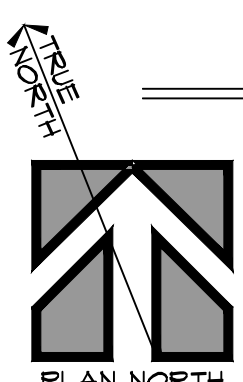
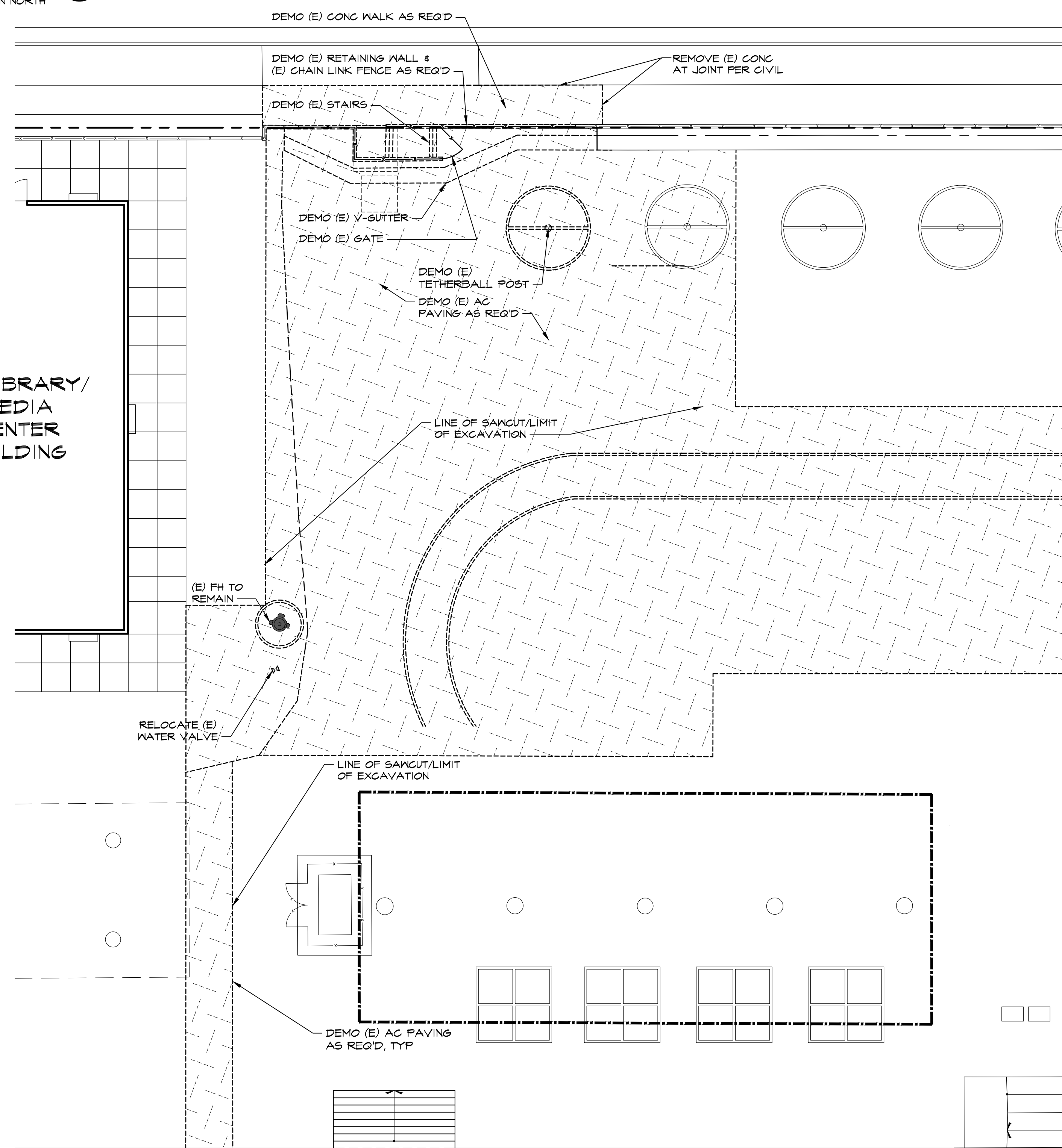
(E) BUILDING NO WORK SCHEDULED	CONCRETE WALK (11 AIO.G)	PROPERTY LINE	TO BE DEMOLISHED
PROPOSED MODULAR BUILDING/SHADE STRUCTURE	AC PAVING SEE CIVIL	(E) CHAIN LINK FENCE	FOR SIGN MOUNTING, SEE (6 AIO.G) (25 AIO.G)
ACCESSIBLE RESTROOM	DEMO (E) CONC WALK/ (E) AC PAVING AS REQ'D	CHAIN LINK FENCE (18 AIO.G)	



© ENLARGED SITE PLAN

SCALE: 1/4" = 1'-0"

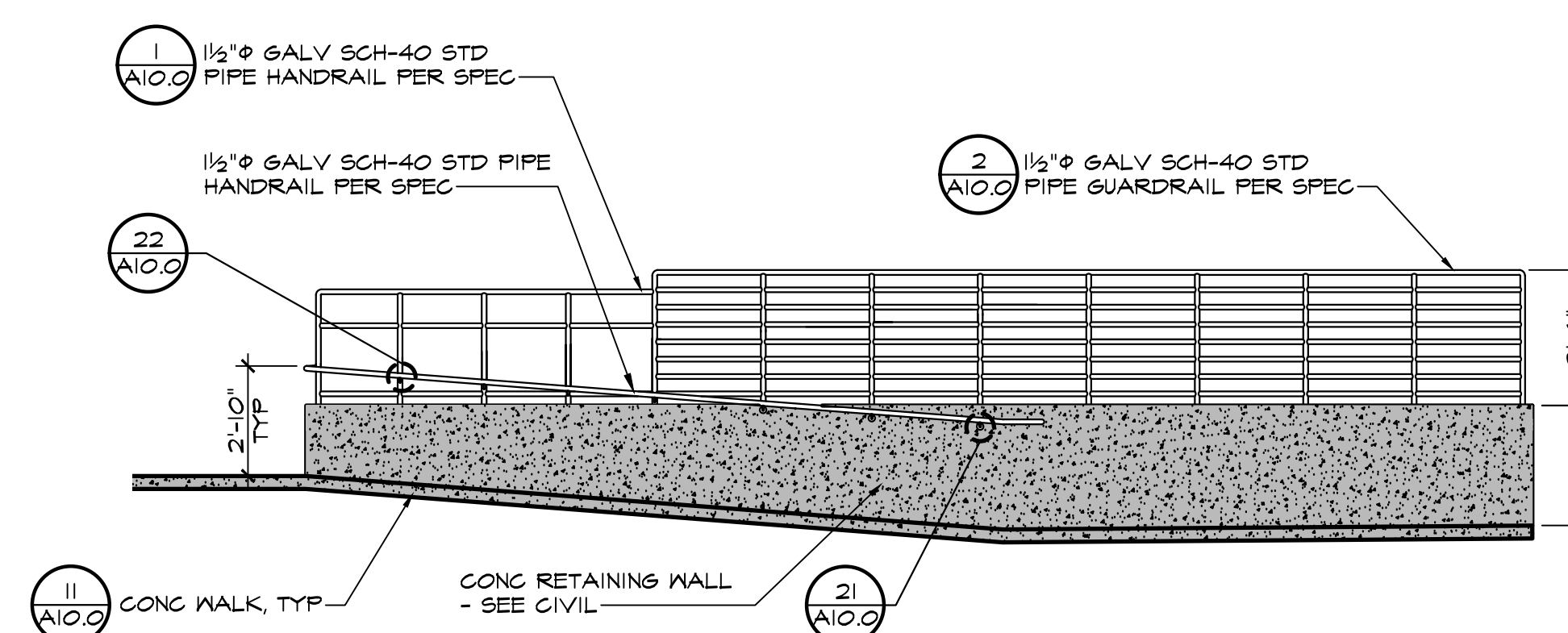
(E) LIBRARY/
MEDIA
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BUILDING



© PARTIAL DEMO SITE PLAN

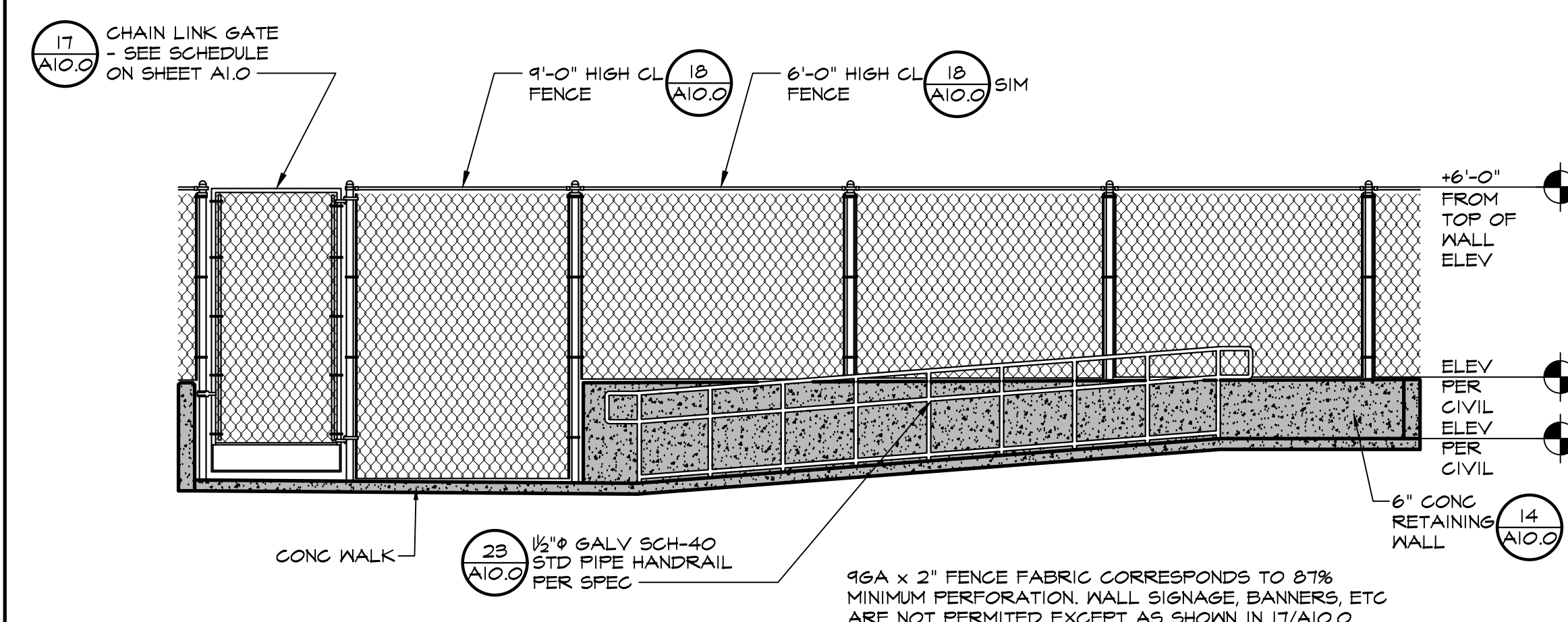
NOTE: NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

SCALE: 1" = 10'-0"



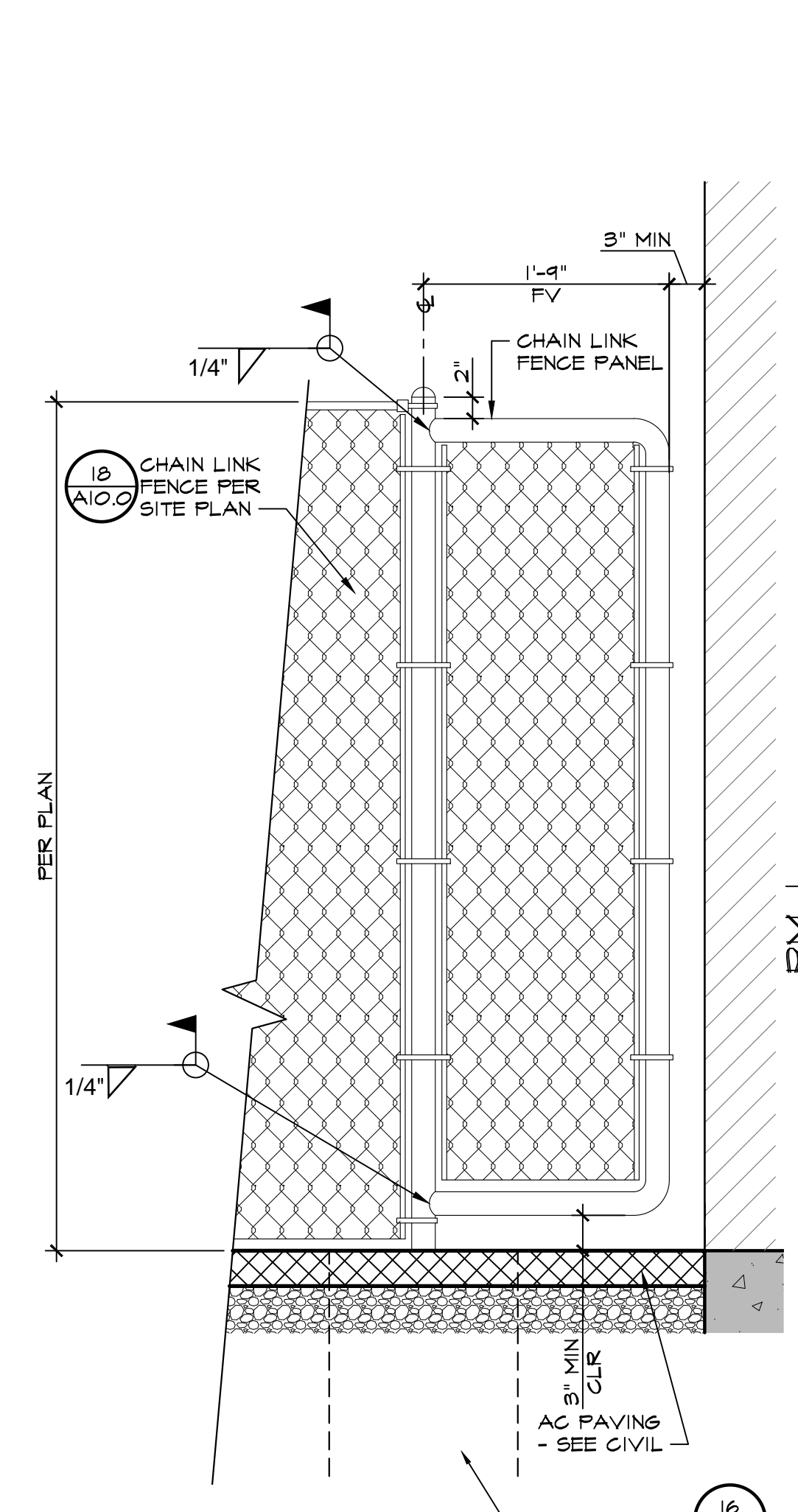
1 RAMP ELEVATION

SCALE: 1/4" = 1'-0"



2 RAMP ELEVATION

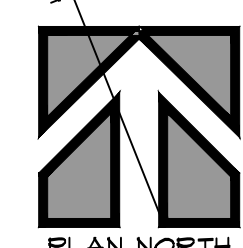
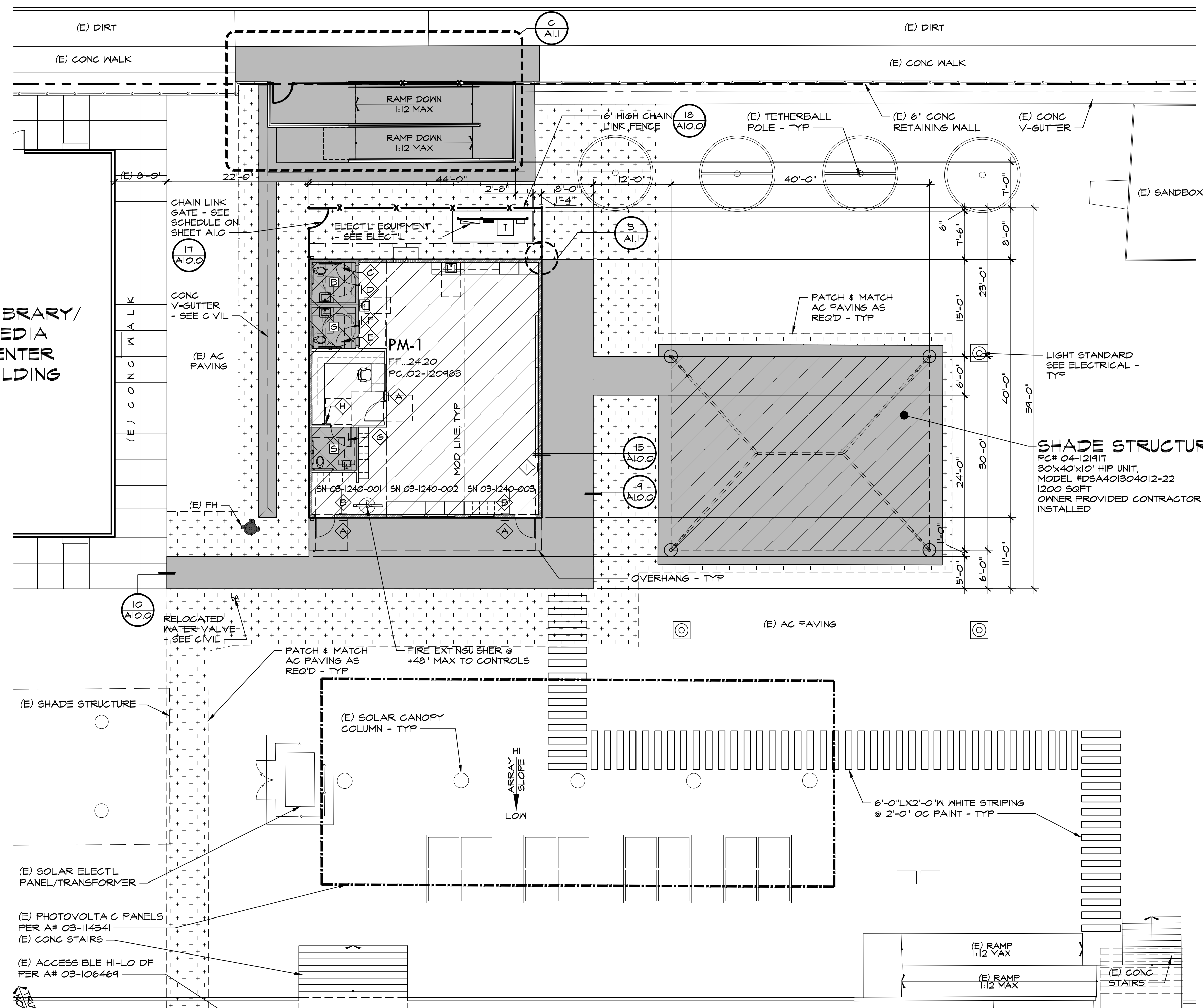
SCALE: 1/4" = 1'-0"



3 CHAIN LINK TO PM-1

SCALE: 1" = 1'-0"

(E) LIBRARY/
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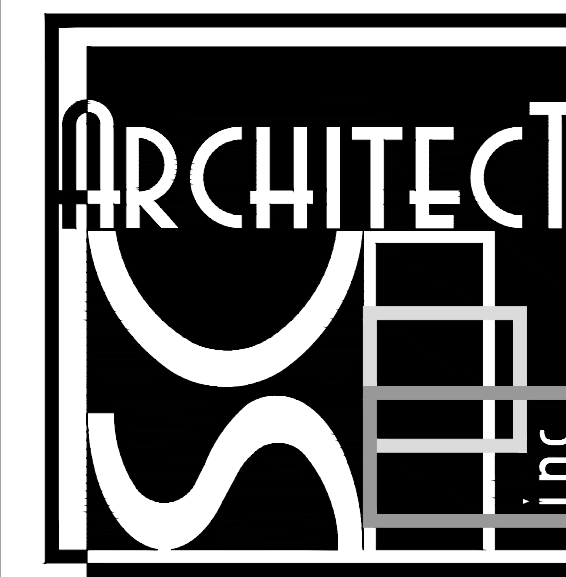
© PARTIAL SITE PLAN

SCALE: 1" = 10'-0"

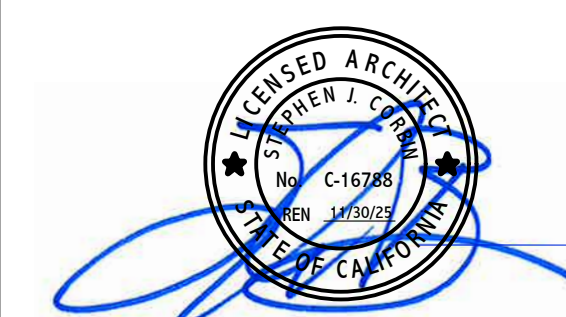
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

PTN: 63800-028 FILE: 15-87

ONE (1) 36'x40' PERMANENT MODULAR PRE-K BUILDING
AND ONE (1) 30'x40' SHADE STRUCTURE
TAFT PRIMARY ELEMENTARY SCHOOL
212 LUCARD STREET
FOR
TAFT CITY SCHOOL DISTRICT
TAFT, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
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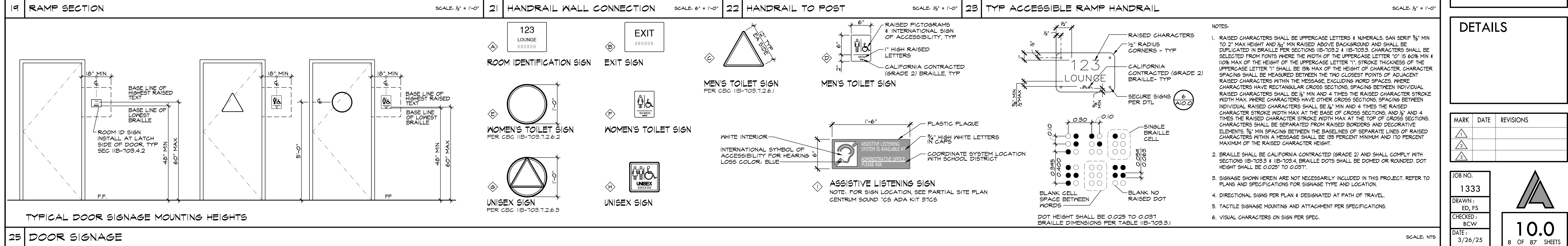
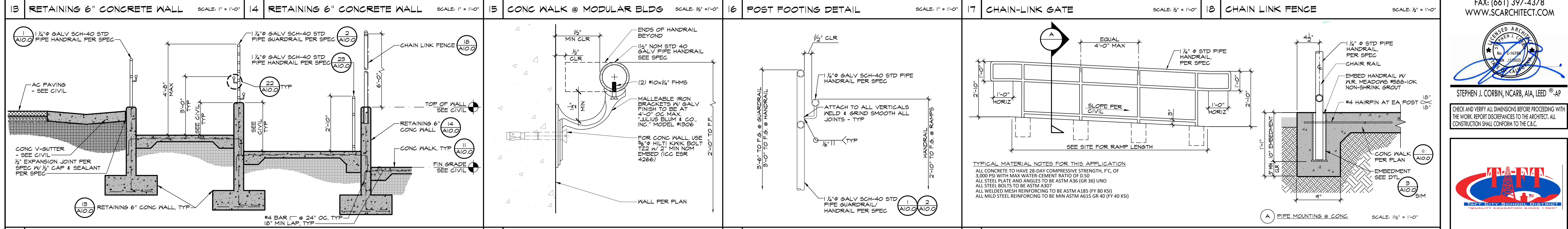
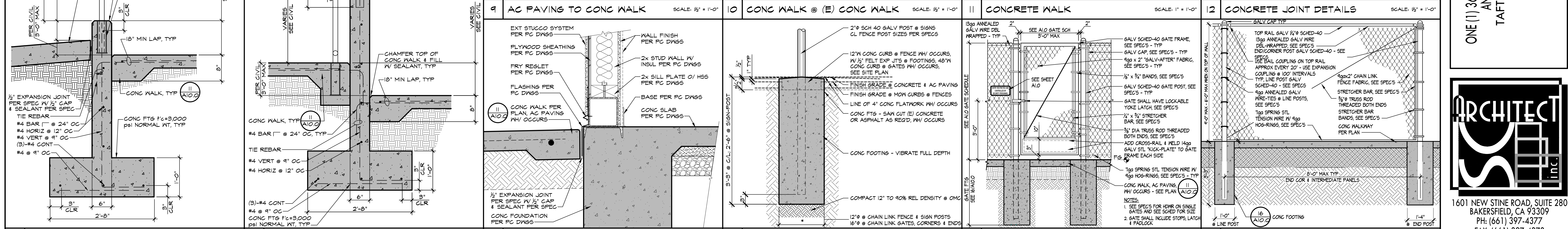
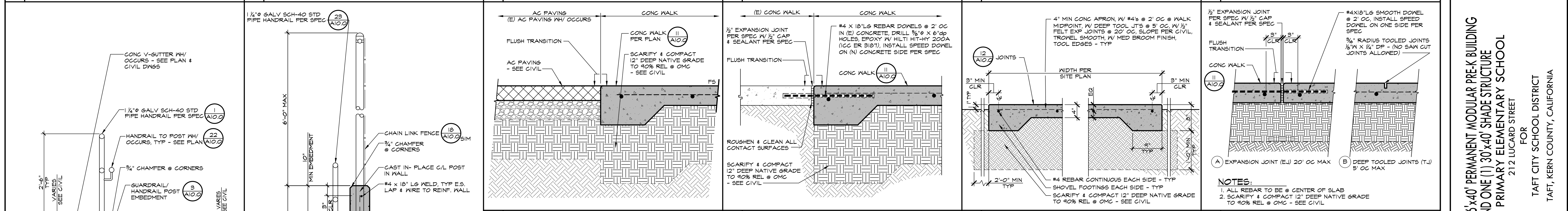
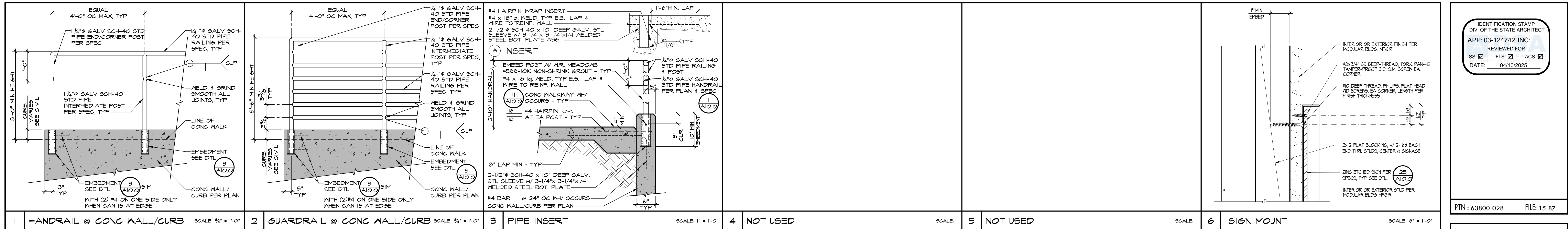


PARTIAL SITE
PLANS

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JOB NO.
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7 OF 87 SHEETS



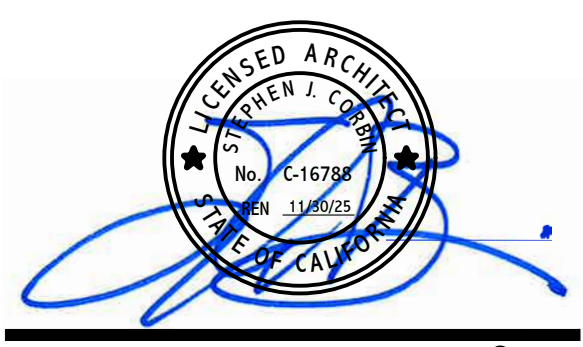
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

PTN: 63800-028 FILE: 15-87

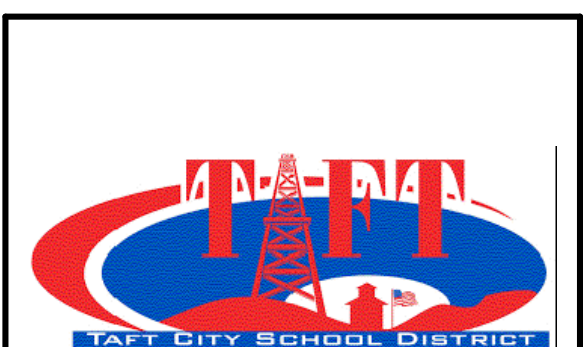
ONE (1) 36'x40' PERMANENT MODULAR PRE-K BUILDING
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



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JOB NO.
1333
DRAWN: EF, FS
CHECKED: BCW
DATE: 3/26/25

SCALE: NTS

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8 OF 87 SHEETS

FIRE DETECTION SYSTEM NOTES:

- ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
- ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
- FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
- FIRE ALARM PANEL, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
- ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
- WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
- THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
- SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2022 EDITION WITH SFM AMENDMENTS).
- THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
- AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUXF OR UULS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
- ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
- THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
- MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2022 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2022 EDITION.
- PROVIDE ACCESS HOLE FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES.
- ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
- MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
- SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2022 CBC, 2022 CFC, 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.

FIRE ALARM ACCEPTANCE TEST

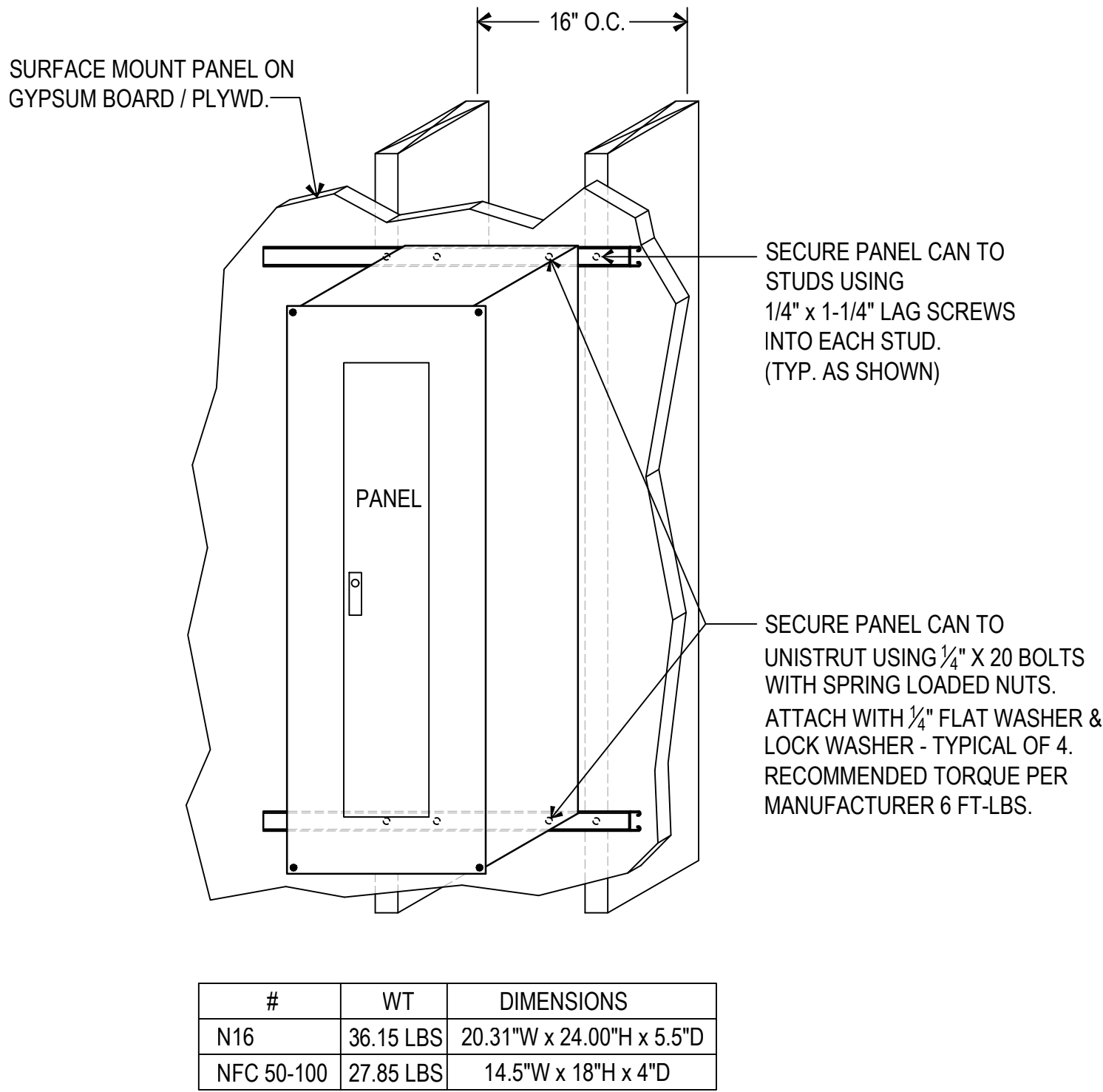
- TESTING OF ALL DEVICES AND APPLIANCES, INCLUDING THE BATTERY-(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET.
- INSPECTION TESTING AND MAINTENANCE OF SYSTEMS, THEIR INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL COMPLY WITH CHAPTER 14 OF NFPA 72 AND DOCUMENTATION WITH NFPA 72, CHAPTER 7.
- TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AHJ REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" AT SECTION 12.3 [NFPA 72, FIGURE 7.8.2(a)], AND THE "SYSTEM RECORD OF INSPECTION AND TESTING" AT SECTION 10.1 [NFPA 72, FIGURE 7.8.2 (g)].
- ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IS IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM.
- ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET. (NFPA 72, 7.7.2).

SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS / AS-BUILTS.
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2).
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8).
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9).
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2

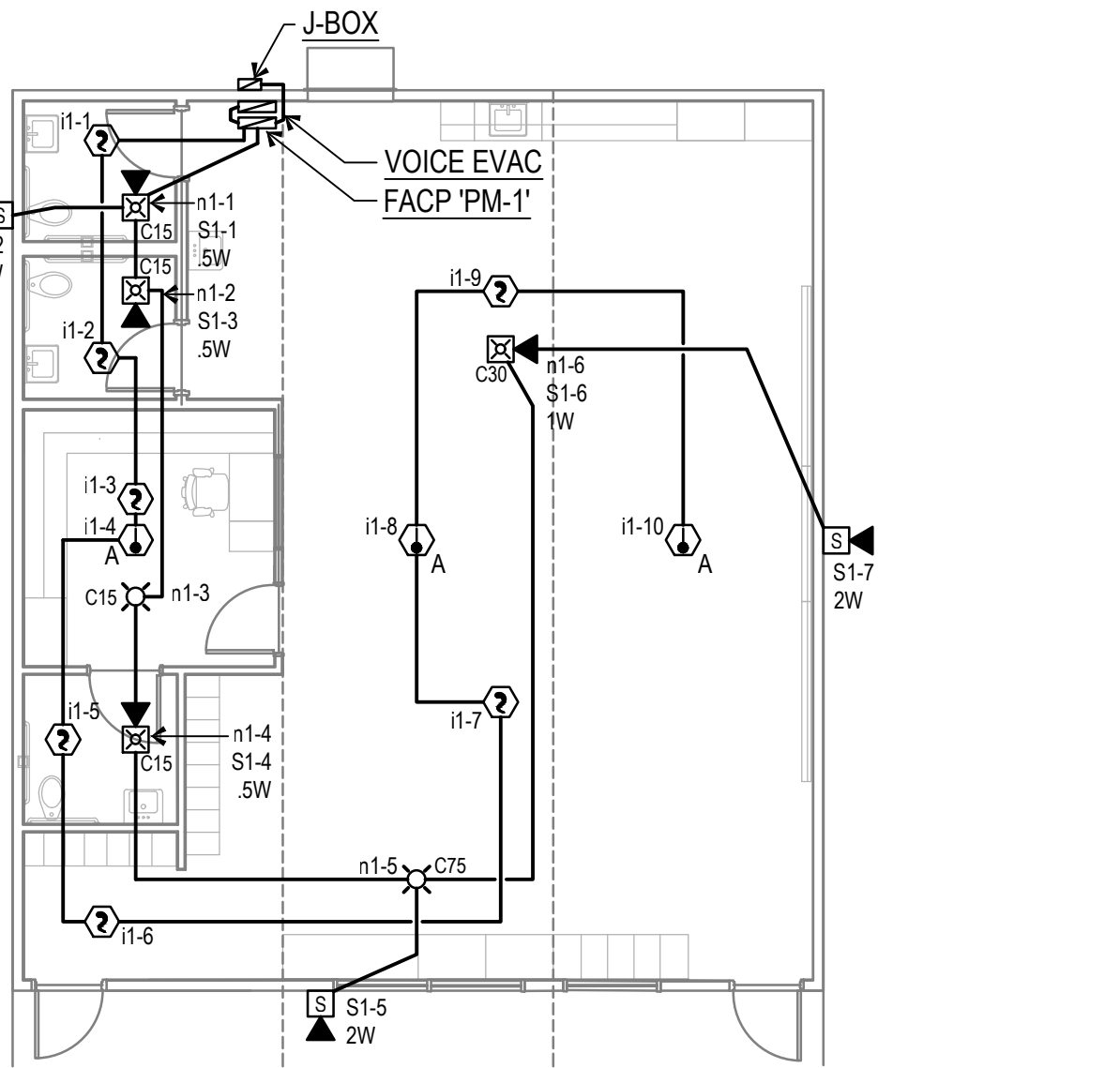
- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNITS, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.



PANEL MOUNTING DETAIL

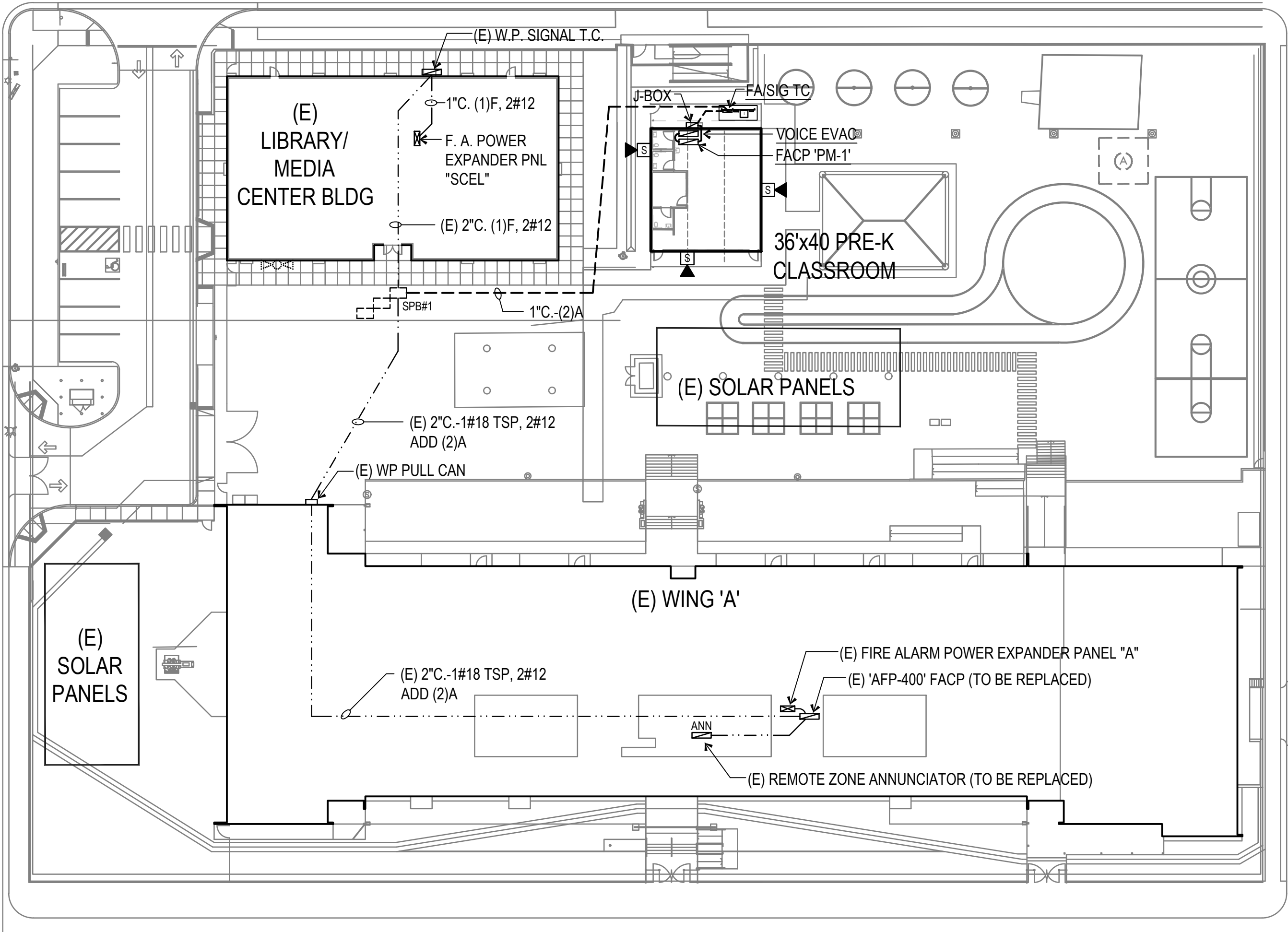
NOT TO SCALE

FIRE ALARM SYMBOL SCHEDULE			
SYMBOL	NAME	DESCRIPTION	CSFM #
(E)	EXISTING ITEM		
U.O.N.	UNLESS OTHERWISE NOTED		
---	WIRING UNDERGROUND OR IN WALL	34°C MIN U.O.N.	
---	EXISTING CONDUIT TO REMAIN		
FACP	FIRE ALARM CONTROL PANEL (REPLACING EXISTING NOTIFIER #AFP-400)	NOTIFIER #N16x	7165-0028.0516
FACP	FIRE ALARM CONTROL PANEL	NOTIFIER #N16e	7165-0028.0516
VOICE EVAC	FIRE ALARM VOICE EVACUATION AMPLIFIER WITH MICROPHONE	NOTIFIER #NFC 50 / 100	6911-0028.0265
ANN	TERMINAL CABINET	24"x18"Wx4"D	
ANN	FIRE ALARM ANNUNCIATOR WITH REQUIRED NETWORK CARDS	NOTIFIER #NCA-2	7165-0028.0243
A	ATTIC HEAT DETECTOR WITH BASE	NOTIFIER #FST-851H SYSTEM SENSOR #S300-6	7270-0028.0502 7300-1563.0109
2	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	NOTIFIER #FSP-951 SYSTEM SENSOR #S300-6	7272-0028.0503 7300-1563.0109
Cmc	VISUAL DEVICE, CEILING MOUNTED C-CEILING MTD., (MC) = MULTI-CANDELA, SET PER PLANS	SYSTEM SENSOR #SCW-P	7125-1653.0166
kw C/NFC	F.A. SPEAKER / STROBE (CEILING MTD.) C-CEILING MTD., (MC) = MULTI-CANDELA, SET PER PLANS W = SPEAKER WATTAGE	SYSTEM SENSOR #SPSCW-P (SEE PLANS FOR SETTINGS)	7320-1653.0201
kw	FIRE ALARM EXTERIOR SPEAKER (WALL MTD.) xW = WATTAGE	SYSTEM SENSOR #SPRK (SEE PLANS FOR SETTINGS)	7320-1653.0201
	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	



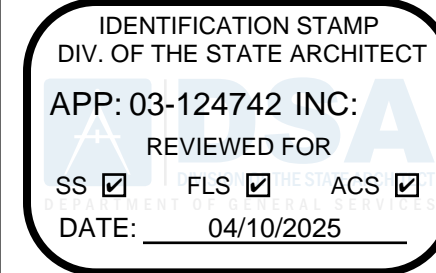
F.A. FLOOR PLAN

SCALE : 1/8" = 1'-0"



FIRE ALARM SITE PLAN

SCALE : 1" = 30'-0"



PTN: 63800-028 FILE: 15-87

ONE (1) 36'x40' PERMANENT MODULAR PRE-K BUILDING
AND ONE (1) 30'x40' SHADE STRUCTURE
TAFT PRIMARY ELEMENTARY SCHOOL
212 LUCARD STREET
FOR
TAFT CITY SCHOOL DISTRICT
TAFT, KERN COUNTY, CALIFORNIA

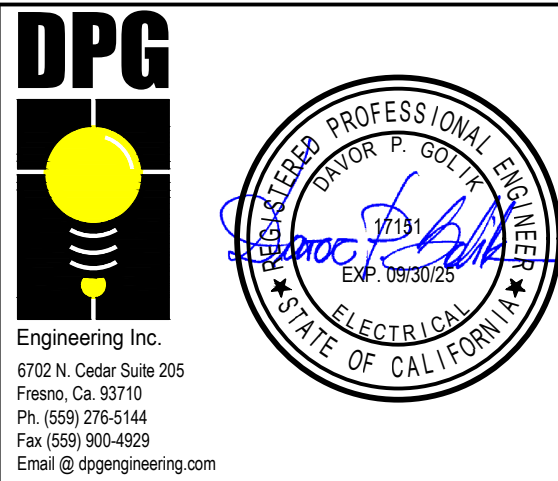


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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



F.A. SITE PLAN, FA FLOOR PLAN, SYMBOL LEGEND, DETAILS AND NOTES

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO. 1333
DRAWN: R.L.M.
CHECKED: D.P.G.
DATE: 8/22/24

2.00 OF SHEETS

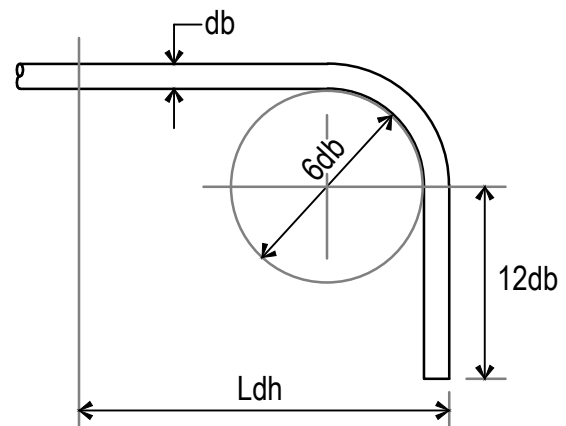
MECHANICAL ANCHORS

1. MECHANICAL ANCHORS' REFER TO POST-INSTALLED EXPANSION ANCHORS INTO CONCRETE.
2. WHEN A SPECIFIC MECHANICAL ANCHOR PRODUCT, DIAMETER, AND EMBEDMENT IS CALLED OUT ON PLANS/DETAILS, THE CONTRACTOR SHALL PROVIDE AND INSTALL IT IN ACCORDANCE WITH THE LATEST ICC/AMMO REPORT AND MANUFACTURER RECOMMENDATIONS. CONTRACTOR MAY SUBMIT SUBSTITUTIONS REQUESTS FOR SEOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT. SUBSTITUTION REQUESTS SHALL INCLUDE RELEVANT PRODUCT DATA, CODE APPROVALS, AND CALCULATIONS TO JUSTIFY THAT THE PERFORMANCE OF SUBSTITUTE IS EQUAL TO OR BETTER THAN THE ANCHOR BEING SPECIFIED.
3. WHERE THE PLANS/ DETAILS GENERICALLY CALL FOR A MECHANICAL ANCHOR WITHOUT MENTION OF A SPECIFIC PRODUCT, AN ANCHOR PRODUCT SHALL BE HILTI KB-TZ2 ICC ESR4266
4. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO MOISTURE
5. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
7. PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN APPROVED DETAILS.
8. WHERE TESTING IS REQUIRED, ANCHORS SHALL BE PROOF TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
9. UNLESS NOTES OTHERWISE, ANCHOR TEST FREQUENCY SHALL BE AS FOLLOWS:
A. 50% OF ALTERNATE BOLTS IN A GROUP FOR NONSTRUCTURAL COMPONENT ANCHORS, INCLUDING EQUIPMENT ANCHORAGE
B. 100% FOR ALL ANCHORS USED IN STRUCTURAL APPLICATIONS
10. TEST ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES CALCULATED BELOW:
A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE INSTALLATION TORQUE LOAD WITHIN ONE-QUARTER TURN OF THE NUT FOR SCREW ANCHORS AND ONE-HALF TURN OF THE NUT FOR ALL OTHER ANCHORS.

HILTI KB-TZ2 ANCHOR EMBED AND TEST LOADS		
ANCHOR DIAMETER (IN)	INSTALLATION TORQUE (FT-LB)	
3/8	30	
1/2	40	

1. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED. PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
2. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS. THEN RESUME INITIAL TESTING FREQUENCY.

STANDARD HOOK DEVELOPMENT LENGTH (Ldh)		
BAR SIZE	f _c =4000 PSI	f _c =6000 PSI
#3	8	8
#4	10	10



STANDARD HOOK BAR BEND AND DEVELOPMENT FOR BARS IN TENSION

NOT TO SCALE

F.A. SINGLE LINE DIAGRAM

FA CABLE SCHEDULE			
'A'	ADDRESSABLE FA COMMUNICATION CABLE	WEST PENN #D990 (INDOOR)	WEST PENN #AQ225 (OUTDOOR)
'B'	2#12 CU.	2#12 CU.	2#12 CU.
'C'	SPEAKER CABLE 16/2	WEST PENN #D990 (INDOOR-BLUE)	WEST PENN #AQ294 (OUTDOOR)

NOTE: ALL FIRE ALARM CABLE INSTALLED IN 3/4" EMT RED MIN.

FACP BATTERY CALCULATION

Panel	'FACP PM-1'	
	CURRENT [A]	
POWER REQUIREMENTS		
	SUPERVISORY	ALARM
PANEL OVERHEAD	0.960	0.110
SLC LOOP	0.200	-
NAC CIRCUITS SUMMARY	-	0.568
TOTALS	1.160	0.678

BATTERY CAPACITY		
SUPERVISORY POWER	= 24 Hr * 1.16A	= 27.840 AH
ALARM POWER	= 0.25 Hr * 0.678A	= 0.170 AH
TOTAL POWER REQUIREMENT = 28.010 AH		
WITH 25% SAFETY FACTOR = 35.012 AH		
MINIMUM BATTERY CAPACITY = 55 AH		
USE NOTIFIER BATTERIES (2) BAT-12550-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit 'n1'

VD = Voltage Drop [V]
I = Current [A] (0.568A)
K = 11 (Copper Constant)
L = Distance to Load [ft] (68')
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)

$$VD = K * I * 2L = 11 * 0.568 * 2 * 68' = 0.130 V$$

$$VD\% = \frac{VD}{CM} = 0.6\%$$

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT	AREA SMOKE OR HEAT DETECTORS	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
SYSTEM OUTPUT					
ANNUNCIATE AT ADMINISTRATION OFFICE	•	•	•	•	•
ACTIVATE AUDIOVISUAL THRU-OUT CAMPUS	•				•
CENTRAL STATION MONITORING	•	•			•
SHUT DOWN HVAC UNIT	•	•			
ACTIVATE VOICE EVACUATION PANEL	•				

BATTERY CALCULATION

Booster Amplifier Cabinet NFG 50/100

POWER REQUIREMENTS

	CURRENT [A]	
	STANDBY	ALARM
PANEL OVERHEAD	0.027	0.446
SPEAKER LOAD	-	0.556
TOTALS	0.027	1.002

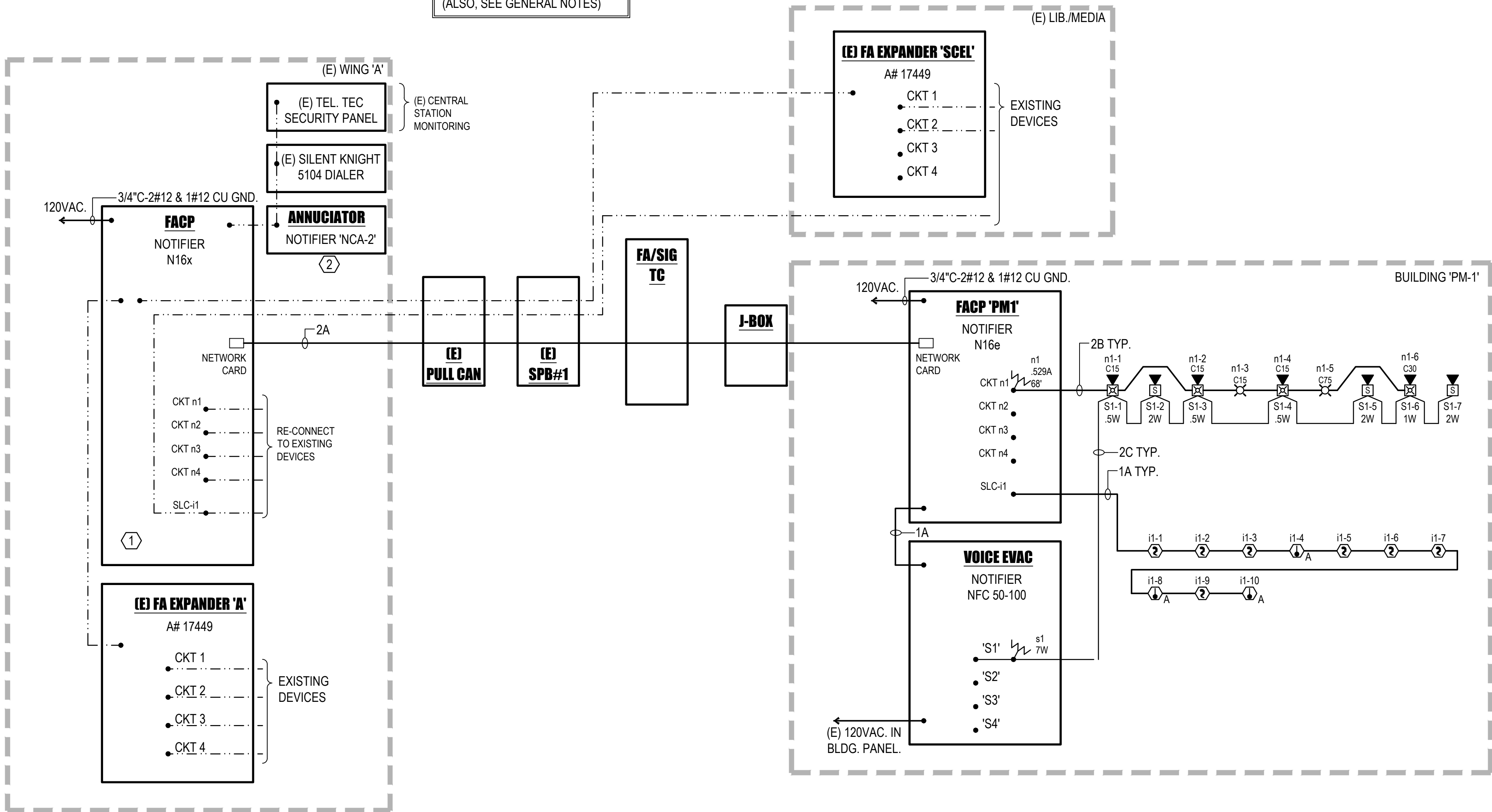
BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.027A	= 0.653 AH
SPEAKER LOAD	= 0.25 Hr * 1.002A	= 0.251 AH
TOTAL POWER REQUIREMENT =		0.903 AH
25% SAFETY FACTOR =		1.129
MINIMUM BATTERY CAPACITY =		2.032 AH

PROVIDE 5 AH BATTERY
USE NOTIFIER BATTERIES (2) BAT-1250-BP

NOTE:
PROVIDE BATTERY BOX AS REQUIRED.

CENTRAL STATION INFORMATION
MONITORING TYPE: CENTRAL STA.
TEL TEC SECURITY SYSTEMS INC
5020 LISA MARIE CT.
BAKERSFIELD CA. 93313
SUBSCRIBER NO. 921005
ACTIVE LISTING:
LIC#220003544
(ALSO, SEE GENERAL NOTES)



REFERENCE NOTES

- ① REPLACE EXISTING NOTIFIER AFF-400 FACP. RECONNCET EXISTING NAC WIRING AND SLC LOOP TO NEW FACP TO RE-ESTABLISH SYSTEM CONTINUITY.
- ② REPLACE EXISTING NOTIFIER 'ANNUNCIATOR' WITH NOTIFIER 'NCA-2', BACKBOX AND CONTROL MODULE AS REQUIRED TO RE-ESTABLISH NETWORK CONTINUITY. UTILIZE EXISTING CONDUIT AND WIRING WHERE POSSIBLE.

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

PTN: 63800-028 FILE: 15-87

ONE (1) 36'x40' PERMANENT MODULAR PRE-K BUILDING
AND ONE (1) 30'x40' SHADE STRUCTURE
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FOR
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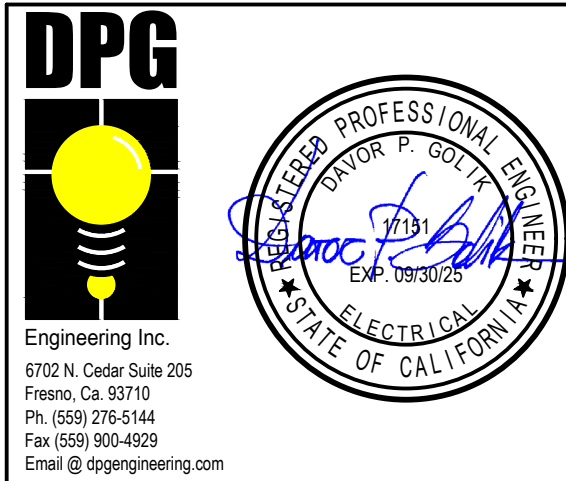


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Engineer: Stephen J. Corbin
6702 N. Cedar Suite 205
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Ph: (559) 278-5444
Fax: (559) 900-4529
Email: SJC@dpgeengineering.com

FIRE ALARM SINGLE LINE, SCHEDULES AND NOTES

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1333
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
8/22/24

2.10
OF SHEETS