

# **APPENDIX B**

# MOORE BIOLOGICAL CONSULTANTS

April 11, 2019

Mr. Daniel Kramer, C.E.G.  
Petralogix Engineering, Inc.  
212 Pine Street, Ste. 2  
Lodi, CA 95240

Subject: "HOUSTON SCHOOL – TRANSITION AND EXPANSION PROJECT",  
ACAMPO, SAN JOAQUIN COUNTY, CALIFORNIA: BIOLOGICAL  
RESOURCES ASSESSMENT

Dear Daniel:

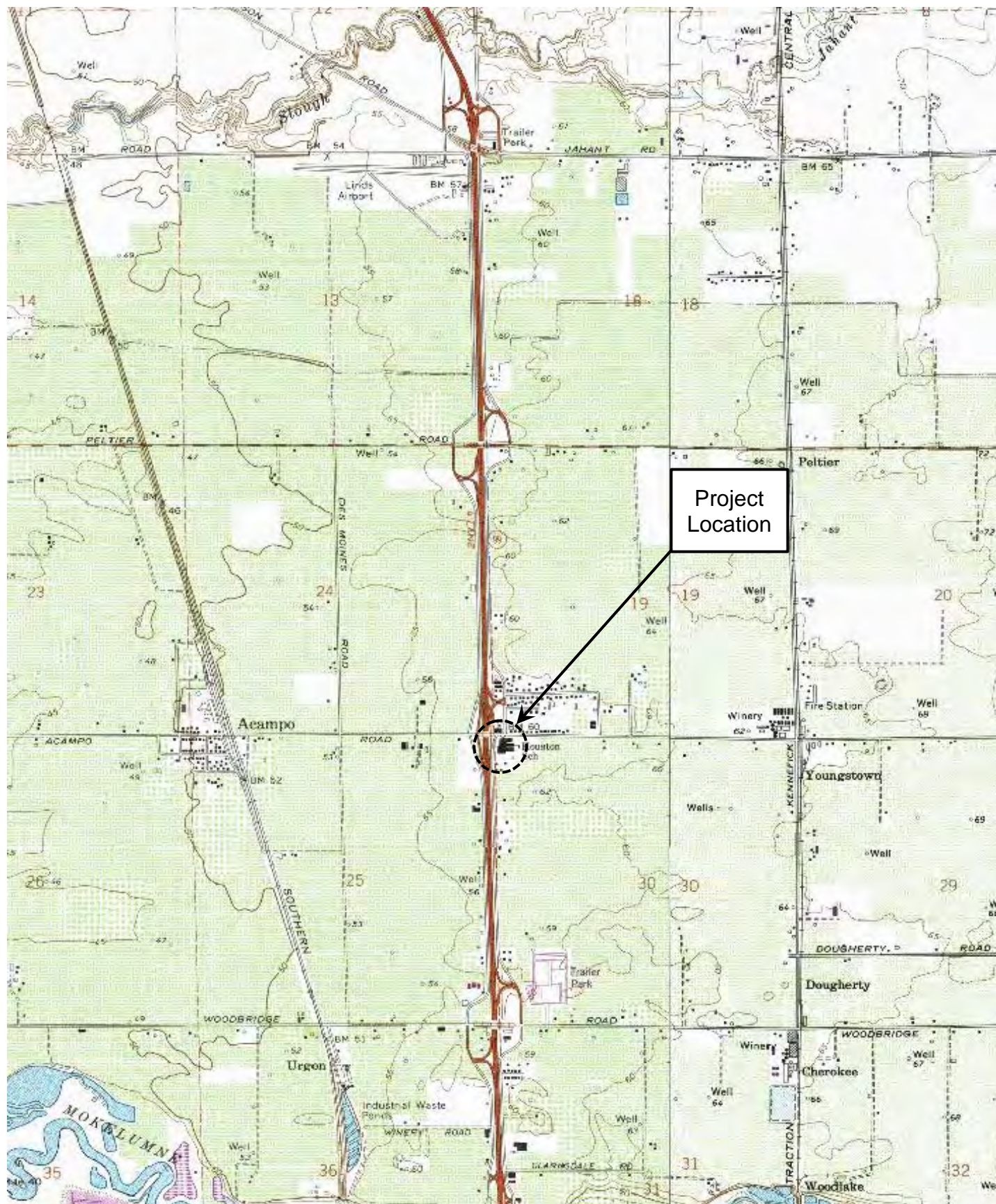
Thank you for asking Moore Biological Consultants to assist with a biological resources assessment of the "Houston School Transition and Expansion Project" at the Houston School, in Acampo, California (Figures 1 and 2). The focus of our work was to assess the site for potentially regulated Waters of the U.S. and wetlands, and to search for special-status species or potentially suitable habitat for special-status species within and near the site. This letter summarizes information related to biological resources in or near the site that was compiled by reviewing databases and available documents, and conducting reconnaissance-level field surveys on April 3 through 11, 2019.

PROJECT OVERVIEW: Lodi Unified School District is proposing a transition and expansion of the Joe Serna Jr. Charter School from its current site in Lodi to the Houston School in Acampo. The Joe Serna Jr. Charter School transition will incorporate approximately 330 additional students to share the Houston Elementary School site, which is currently under-utilized.

The proposed project includes demolition and removal of a modular building in the north part of the Houston Elementary School and the installation of up to six (6) modular buildings in the north part of a lawn area just east of the school

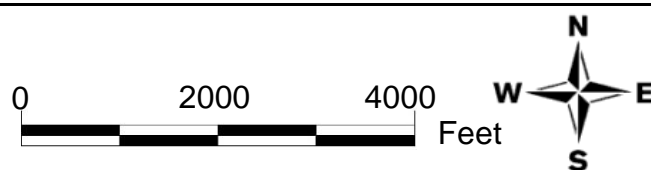






Source: USGS 7.5-minute  
Lodi North & Lockford  
topographic quadrangles

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**FIGURE 2**  
**PROJECT LOCATION**



buildings (see Plans in Attachment A). A 20,000-gallon water tank will be installed in the southwest corner of the lawn area. The tank will be connected to existing pressure tanks. Two small ornamental trees will need to be removed to accommodate the new modular buildings. To facilitate a new fire lane, approximately 80 feet of existing chain link fencing/gates will be removed; tetherball posts, a playground backstop, and goal posts will also be removed. Other associated site development work includes new and existing parking lot modifications (repairing asphalt, painting), site utilities, new fencing, and exterior lighting upgrades. The project will involve approximately 1 acre of new ground disturbance.

**GENERAL SETTING:** The project site is located in San Joaquin County, a few miles north of Lodi (Figure 1). The site is in the northwest part of Section 30 within Township 4 North, Range 7 East of the USGS 7.5-minute Lodi North topographic quadrangle (Figure 2). Project development will primarily occur in the manicured field just east of school buildings, and in paved and developed areas along the north edge of the school (Figure 3).

**VEGETATION:** Natural habitats in the project vicinity, including those in the site, have been entirely replaced by development. Most of the site is irrigated lawn that is periodically mowed (Figure 3 and photographs in Attachment B). There are a few trees in and adjacent to the work areas, and numerous trees in elsewhere on the campus and in surrounding parcels. Two small ornamental trees will be removed to facilitate installation of the modular; no other trees will be removed as part of the project. There are several large trees along the fence line surrounding the large lawn just east of school buildings. Oaks (*Quercus* spp.), pines (*Pinus* sp.), coast redwoods (*Sequoia sempervirens*), and a variety of ornamentals surround the lawn area; all of these trees are outside of the project site and will be retained. There are a few eucalyptus, pine, and other ornamental trees along the edge of the school parking lot near the Highway 99 Frontage Road, and various ornamentals adjacent to some of the school buildings.



Source (Basemap): Google Earth

Scale: 1 inch = 130+/- feet

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**FIGURE 3**

**AERIAL PHOTOGRAPH**

WILDLIFE: Only a few bird species were observed in the site. Swainson's hawk (*Buteo swainsoni*), turkey vulture (*Cathartes aura*), yellow-billed magpie (*Pica nuttalli*), northern flicker (*Colaptes auratus*), American crow (*Corvus branchyrhynchus*), mourning dove (*Zenaida macroura*), Brewer's blackbird (*Euphagus cyanocephalus*), white-crowned sparrow (*Zonotrichia leucophrys*), California scrub jay (*Aphelocoma californica*), and northern flicker (*Colaptes auratus*) were observed at the site during the surveys. A few California ground squirrel (*Spermophilus beecheyi*) burrows were observed along the east edge of the field, but no ground squirrels were observed.

There are numerous trees in and near the school that are suitable for nesting raptors and other protected migratory birds. There are no nests in the two small ornamental trees that will be removed. A few stick nests of varying sizes were observed in other trees in and near the school, including a large stick nest in one of the large trees just east of the water tank site (see photograph in Attachment B). A northern flicker was observed building a nest in an ornamental adjacent to the water tank site and a Swainson's hawk was observed constructing a nest in a large eucalyptus in the northwest corner of the school, right along the Highway 99 Frontage Road. Given the presence of some relatively large trees in and near the site, it is likely one or more additional pairs of raptors, plus a variety of songbirds, nest in trees in or near the school each year. Further, it is considered likely that numerous songbirds nest within trees and shrubs in and adjacent to the school each year.

WATERS OF THE U.S. AND WETLANDS: Jurisdictional "wetlands" includes vegetated wetland areas, which meet the technical criteria described in the U.S. Army Corps of Engineers (ACOE) 1987 Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Supplement (2008), or water bodies or channels that meet the criteria identified in 33 CFR 328.4, which define "Waters of the U.S.". Jurisdictional "Waters of the U.S" includes intermittent and perennial "blue line" streams mapped on USGS topographic maps, even when these features have been re-



aligned and seasonal wetland swales and vernal pools that are hydrologically connected to or in proximity to tributary drainages.

There are no potentially jurisdictional Waters of the U.S. or wetlands in the site. The site consists entirely of developed and landscaped areas that are highly disturbed. Specifically, we observed no relatively permanent or intermittent drainages, vernal pools, seasonal wetlands, marshes, ponds, lakes, or riparian wetlands of any type within or adjacent to the school.

**SPECIAL-STATUS SPECIES:** Special-status species are plants and animals that are legally protected under the state and/or federal Endangered Species Act or other regulations. The Federal Endangered Species Act (FESA) of 1973 declares that all federal departments and agencies shall utilize their authority to conserve endangered and threatened plant and animal species. The California Endangered Species Act (CESA) of 1984 parallels the policies of FESA and pertains to native California species.

California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDDB, 2019) is helpful to identify special-status species that have been previously documented in the greater project vicinity or have the potential to occur based on presence of suitable habitat and geographical distribution. Numerous special-status species have been documented within the Lodi North and Lockeford topographic quadrangles (see CNDDDB Search Results in Attachment C). However, only Swainson's hawk and midvalley fairy shrimp (*Branchinecta lynchi*) have been documented within a mile of the site.

Special-status plants generally occur in relatively undisturbed areas in vegetation communities such as vernal pools, marshes and swamps, chenopod scrub, seasonal wetlands, riparian scrub, and areas with unusual soils. The site has been disturbed by development and does not provide suitable habitat for special-status plants. No special-status plants or highly suitable habitat for special-status plants were observed in the site.

While the project site may have provided habitat for special-status wildlife species at some time in the past, development has substantially modified natural habitats in the greater project vicinity, including those within the Houston School parcel. Of the wildlife species identified in the CNDDDB search, Swainson's hawk is the only species that has any potential to occur in the project site on more than a transitory or very occasional basis. Due to a lack of suitable habitat, it is unlikely other special-status species have potential to occur at the school site.

**SWAINSON'S HAWK:** The Swainson's hawk is a migratory hawk listed by the State of California as a Threatened species. The Migratory Bird Treaty Act and Fish and Game Code of California protect Swainson's hawks year-round, as well as their nests during the nesting season (March 1 through September 15). Swainson's hawk are found in the Central Valley primarily during their breeding season, a population is known to winter in the San Joaquin Valley. Swainson's hawks can be disturbed if loud and intensive construction activities occur in close proximity to their nests.

Swainson's hawks prefer nesting sites that provide sweeping views of nearby foraging grounds consisting of grasslands, irrigated pasture, hay, and wheat crops. Most Swainson's hawks are migratory, wintering in Mexico and breeding in California and elsewhere in the western United States. This raptor generally arrives in the Central Valley in mid-March, and begins courtship and nest construction immediately upon arrival at the breeding sites. The young fledge in early July, and most Swainson's hawks leave their breeding territories by late August. The CNDDDB contains two records of a pair of Swainson's hawk nesting approximately 1 mile northeast of the site and several additional records within several miles of the site.

The manicured lawns and developed areas in the school do not provide suitable Swainson's hawk foraging habitat, but large trees in and near the school could be used for nesting. No active Swainson's hawk nests were observed in any of the

trees surrounding the lawn area just east of the school buildings where the modular buildings and new water tank will be installed.

As noted above, a pair of Swainson's hawks were observed exhibiting nesting behavior in the large eucalyptus tree just west of the school buildings along the Highway 99 Frontage Road (Figure 4). The nest tree is adjacent to Highway 99, the busy school parking lot, a convenience store, and a taco truck. The birds have been arranging soft green leafy twigs in the nest in preparation for egg laying and each day there is more greenery in the nest than during the prior visit. Moore Biological Consultants have observed this tree being used by nesting Swainson's hawks for the last three years. This pair will likely lay eggs in the next couple of weeks, verifying this territory is active this season.

Similar to many "urbanized" Swainson's hawks, this pair of hawks has selected a noisy and active area for nesting and appears well accustomed to noise and human activities. The nest is quite low in the tree (approximately 25 feet above the ground) and the work areas in the east part of the school (i.e., the modular building and bus parking lot) are not visible from the nest due to both the height of the nest and presence of buildings between the nest and the modular building area. Construction in the open field in the east part of the school will primarily involve off-loading modular buildings and the water tanks and hauling away an old modular building. None of this work is expected to generate substantial noise or involve large equipment such as pile drivers or cranes. The limited amount of noise related to construction activity on the opposite side of the school is not expected to result in disturbance to this pair of hawks.

In contrast, sawing pavement in three locations on the west edge of the existing school buildings (i.e., the east edge of the school parking lot) could be loud and will be directly visible from the nest. It is recommended work on the west side of the school buildings be delayed until the end of the construction project to allow the Swainson's hawks to complete nesting and for the young to fledge.





Source (Basemap): Google Earth

Scale: 1 inch = 130+/- feet

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**FIGURE 4**

**SWAINSON'S HAWK NEST**

CRITICAL HABITAT: Critical habitat is areas mapped by the United States Fish and Wildlife Service (USFWS) as being critical to maintain and/or manage in a relatively natural state for the recovery of a listed species. The site is not in designated critical habitat of any federally listed species.

## **Conclusions and Recommendations**

- The Houston School campus primarily consists of developed areas and lawns that are biologically unremarkable.
- Development of the proposed project will result in the removal of two small ornamental trees. No birds were observed nesting in these trees.
- There are no potentially jurisdictional Waters of the U.S. or wetlands in the site.
- Due to a lack of suitable habitat, it is very unlikely that special-status plants occur in the site.
- With the exception of Swainson's hawk, no special-status wildlife species are expected to occur in the body of the site on more than a very occasional or transitory basis.
- A pair of Swainson's hawks were observed exhibiting nesting behavior in the large eucalyptus tree just west of the school buildings along the Highway 99 Frontage Road. Swainson's hawks used this tree for the last three years. This pair will likely lay eggs in the next couple of weeks, verifying this territory is active this season.
- Pre-construction surveys for nesting Swainson's hawks within 0.25 miles of the project site are recommended if construction commences

between March 1 and September 15. If active nests are found, a qualified biologist should determine the need (if any) for temporal restrictions on construction. The determination should be pursuant to criteria set forth by CDFW (CDFG, 1994) and the Swainson's Hawk Technical Advisory Committee (SHTAC) survey guidelines (SHTAC, 2000). While it is anticipated construction in the east part of the school will be able to proceed during the Swainson's hawk nesting season, parking lot improvements west of the existing school buildings may need to be delayed until the Swainson's hawks fledge, which is expected to be in early-July at the latest.

- The site is not within designated critical habitat for any federally listed species.
- On-site trees, shrubs, and grasslands may be used by nesting birds protected by the Migratory Bird Treaty Act of 1918 and Fish and Game Code of California. If vegetation removal and/or project construction occurs between February 1 and August 31, a pre-construction nesting bird survey is recommended. If active nests are found within the survey area, vegetation removal and/or project construction should be delayed until a qualified biologist determines nesting is complete.

We hope this information is useful. Please call me at (209) 745-1159 with any questions.

Sincerely,



Diane S. Moore, M.S.  
Principal Biologist



## References and Literature Consulted

ACOE (U.S. Army Corps of Engineers). 1987. Technical Report Y87-1. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MI.

ACOE. 2008. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region. U.S. Army Engineer Research and Development Center, Vicksburg, MS. September.

CNDDDB (California Natural Diversity Database). 2019. California Department of Fish and Wildlife's Natural Heritage Program, Sacramento, California.

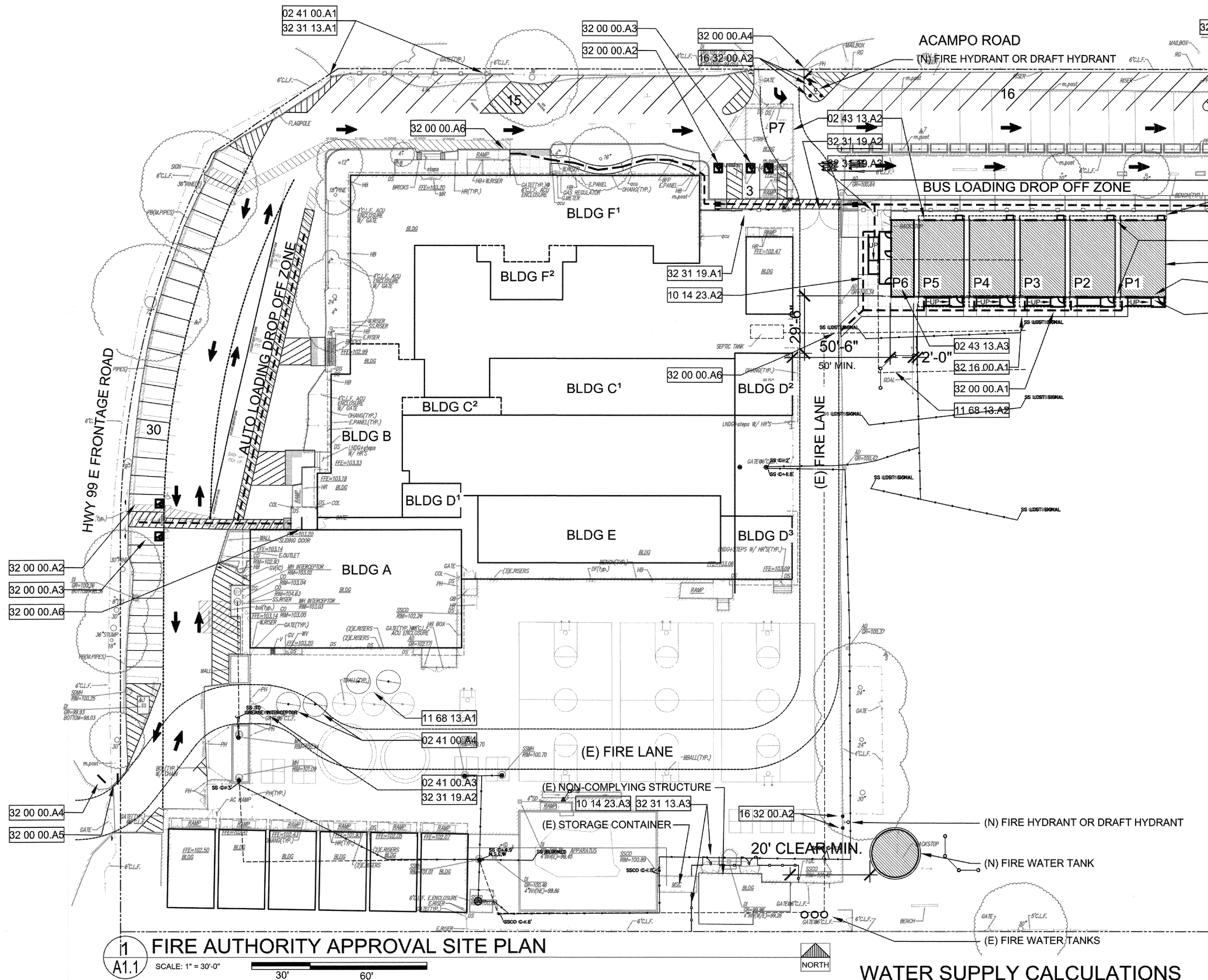
CDFG (California Department of Fish and Game). 1994. Staff Report regarding Mitigation for Impacts to Swainson's Hawks (*Buteo Swainsoni*) in the Central Valley of California. November.

SHTAC (Swainson's Hawk Technical Advisory Committee). 2000. Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley. May 31.

Attachment A

Project Plans





**1 FIRE AUTHORITY APPROVAL SITE PLAN**  
 SCALE: 1" = 30'-0"  
 30' 60'

### KEYNOTES

- 02 41 00 DEMOLITION  
 02 41 00.A1 remove existing chain link fence and gates (approximately 80 ft total)  
 02 41 00.A2 remove 3'-6" of existing chain link fence and install new end posts and secure ends of chain link to new fence posts for new gate opening  
 02 41 00.A3 remove 20'-6" of existing chain link fence and install new end posts and secure of end of chain link to new fence posts for new opening  
 02 41 00.A4 remove existing tetherball posts (2 locations)  
 02 41 00.A5 remove existing playground backstop  
 02 41 00.A6 remove existing goal posts  
 02 43 13 STRUCTURE RELOCATION  
 02 43 13.A1 Relocate five (5) relocatable classroom buildings (P1-P5) and ramps from Joe Sema Charter School. Set buildings on new wood foundations per each original building manufacturer drawings. Set ramps flush to new concrete walks.  
 02 43 13.A2 Demolish and remove one (1) relocatable classroom building (P7) and ramp from Houston Middle School.  
 02 43 13.A3 Relocate one (1) relocatable toilet building (P6) and ramp from Woodbridge Elementary School. Set building on new wood foundation per original building manufacturer drawings. Set ramp flush to new concrete walks.  
 02 43 13.A4 Relocate five (5) relocatable classroom buildings (P1-P5) and ramps from Joe Sema Charter School. Set buildings on new wood foundations per each original building manufacturer drawings. Set ramps flush to new concrete walks.  
 06 10 00 ROUGH CARPENTRY  
 06 10 00.A1 Install closure panels between relocatable buildings front and rear per detail 8/A0.1 - typical all relocated buildings.  
 10 14 23 SIGNAGE  
 10 14 23.A1 provide room identification sign and tactile exit sign per details 2/A0.1 and 3/A0.1 at five (5) door locations buildings P1-P5.  
 10 14 23.A2 provide toilet room identification sign and toilet room door symbol per detail 2/A0.1 at three (3) door locations building P6.  
 10 14 23.A3 provide sign at building stating "TEACHERS AND PUPILS SHALL NOT ENTER STRUCTURE"  
 10 44 16 FIRE EXTINGUISHERS  
 10 44 16.A1 provide one UL rated 2A-10 BC multipurpose fire extinguisher at each classroom (five locations), mount on wall with bracket near door.  
 11 68 13 PLAYGROUND EQUIPMENT  
 11 68 13.A1 install (2) tetherball poles per 5/A1.3 and strip asphalt.  
 11 68 13.A2 install (1) softball backstop (three 10' wide x 12' high chain link fence panels)  
 32 00 00 EXTERIOR IMPROVEMENTS  
 32 00 00.A1 accessible path of travel shown dashed  
 32 00 00.A2 accessible parking stall per civil  
 32 00 00.A3 accessible van parking stall per civil  
 32 00 00.A4 low away sign per civil  
 32 00 00.A5 stop sign per civil  
 32 00 00.A6 end of accessible path of travel this project  
 32 16 00 SITE  
 32 16 00.A1 new site concrete paved walk per civil  
 32 16 00.A2 install five (5) bollards at hydrants per detail 6/A1.3  
 32 31 13 CHAIN LINK FENCE  
 32 31 13.A1 install new 6' high chain link fence where gate and fences where gate and fences were removed (approximately 80 ft).  
 32 31 13.A2 install new 6' high x 3'-6" wide chain link gate per detail 4/A0.1  
 32 31 13.A3 install new 6' high x 3'-0" wide standard chain link gate  
 32 31 13.A4 install new 6' high chain link fence 6' from existing structure with two sets of double 8' gates.  
 32 31 19 ORNAMENTAL METAL FENCE  
 32 31 19.A1 install new 6' high ornamental metal fence (approximately 420 ft).  
 32 31 19.A2 install new 6' high x 20' wide ornamental metal gate at fire lane per detail 9/A0.1  
 32 31 19.A3 install new 6' high x 3'-6" wide ornamental metal gate per detail 5/A0.1

### WATER SUPPLY CALCULATIONS

THE FIRE WATER TANK IS SIZED PER NFPA 1142 BASED ON THE PROJECT SIZE AND BUILDING VOLUME. LISTED IN THE CHART BELOW. THE FIRE WATER TANK IS DESIGNED TO PROVIDE FIRE WATER FOR THE BUILDINGS OF THIS APPLICATION ONLY. THE EXISTING BUILDINGS ARE NOT INCLUDED IN THE WATER SUPPLY CALCULATION AND THEREFORE, THE FIRE WATER TANK IS NOT DESIGNED TO PROVIDE PROTECTION FOR THEM.

12/4/2018				
STRUCTURES WITHOUT EXPOSURE HAZARDS				
	VS	OHC	CC	WS
WS = (VS/OHC)xCC	86400	7	1.5	18514
Required tank volume in gallons				18514
WS = Water Supply				
VS = Volume of Structure (Cubic Feet)				
OHC = Occupancy	86400			
Hazard Classification	7			
Construction				
Classification	1.5			
VS				
Volume of Structure	Cubic feet	# bldgs	Total	
Classrooms (24' wide x 40' long x 12' high)	11520	7	80640	
Volume of Structure Restroom (12' wide x 40' long x 12' high)	5760	1	5760	
Building Cubic Feet			86400	



**810**

### FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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 for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

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

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	LODI UNIFIED SCHOOL DISTRICT
Project Name/School:	HOUSTON SCHOOL
Project Address:	4600 ACAMPO ROAD, ACAMPO, CA 95220

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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Refer to the following for fire hazard zone locations: <a href="http://www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps">www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps</a>	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"/>

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

DSA 810 (rev 10-22-18) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

### DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

#### 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: LEONARD KAHN Title: CHIEF BUSINESS OFFICER  
 Signature: [Signature] Date: 2/20/2019

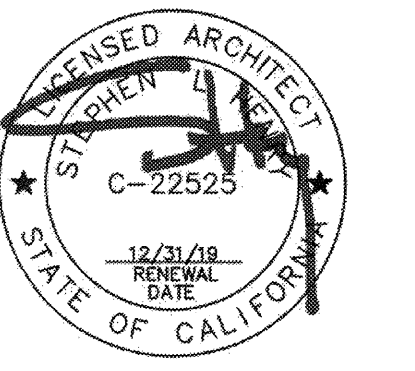
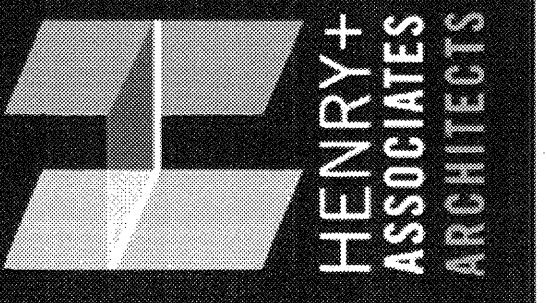
#### LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: WOODBIDGE FIRE DISTRICT  
 LFA Review Official: CHIEF STEVE BUTLER  
 Title: FIRE CHIEF Work Phone: (209) 369-1945  
 Work E-mail: steve.butler@woodbridgefire.org

LFA Reviewer's Signature: [Signature] Date: 2/28/19

FILE NO. 39-50 APP NO. 02-117209

730 Howe Avenue, Suite 450  
 Sacramento, CA 95825  
 Phone: 916.921.2112  
 Fax: 916.921.2212



INCREMENT 01  
 RELOCATABLES BUILDINGS  
 HOUSTON SCHOOL

FIRE AUTHORITY APPROVAL  
 SITE PLAN

CONSULTANT

PROJECT NO.	REVISIONS	BY
18-32-046		
DATE		
02/25/2019		
DRAWN		
SLH		
CHECKED		
SLH		
SCALE		
CADFILE		
UPDATED		
SHEET NO.		

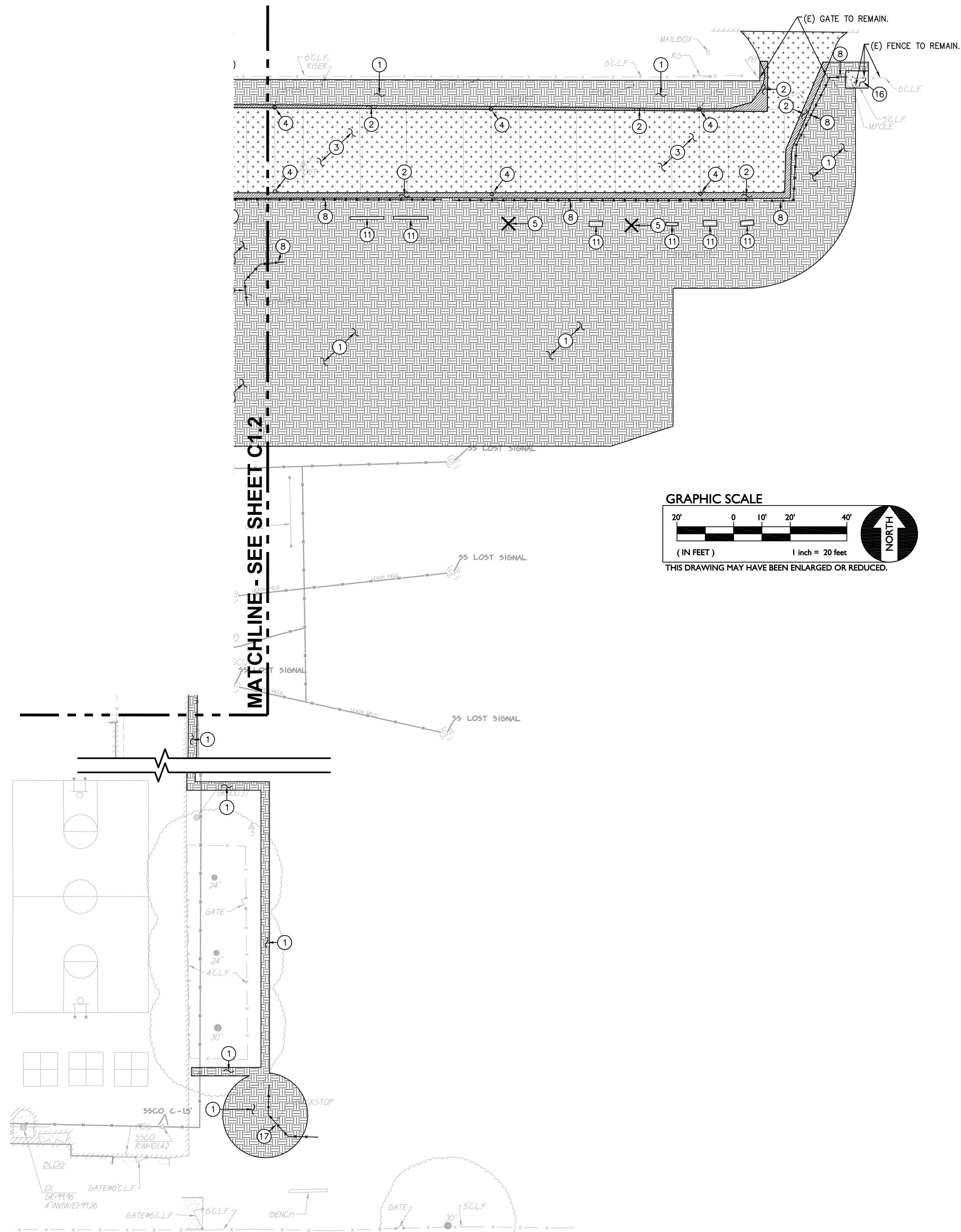
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02 OF 101 SHEETS









## DEMOLITION GENERAL NOTES


1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION..
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2014 OFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
11. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.
12. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
13. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING PLANTING AND IRRIGATION ALONG EDGES OF DEMOLITION AND NEW PAVEMENT. CONTRACTOR SHALL REPAIR ANY DAMAGE, TO INCLUDE NEW IRRIGATION LINES, NEW HEADS, NEW BARK/MULCH AND NEW SOD TURF WHERE NECESSARY.


## DEMOLITION NOTES

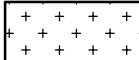
NOTE: NOT ALL NOTES MAY BE USED ON THIS SHEET.


AND/OR


LEGEND # DEMOLITION NOTES


 1. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, AND IRRIGATION SYSTEMS. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE GENERAL IRRIGATION NOTE, THIS SHEET.


 2. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE ROCK TO ALLOW FOR NEW WORK. SAWCUTS SHALL BE NEAT STRAIGHT LINES. IF EDGES BROKEN DURING CONSTRUCTION, PERFORM NEW SAWCUTS JUST PRIOR TO NEW PAVING.


 3. CRACK FILL, PATCH AND CLEAN EXISTING ASPHALT FOR NEW PAVEMENT SEALER. SEE SPECIFICATIONS.


 4. REMOVE EXISTING METAL POST/POLE AND CONCRETE BASE. TAKE CARE NOT TO DAMAGE SURROUNDING PAVING WHEN REMOVING CONCRETE BASE. BACKFILL WITH 95% COMPACTED CLASS II AB IN 6" LIFTS AND PATCH ASPHALT PAVING. MATCH SECTION.

 5. REMOVE EXISTING CONCRETE CURB / CURB GUTTER.

 6. REMOVE EXISTING UTILITY BOX AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER. REFER TO GRADING AND UTILITY PLANS AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

 7. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED.

 8. REMOVE FENCING AND GATES AS SHOWN. REMOVE POST TO INCLUDE CONCRETE FOOTINGS.

 9. REMOVE EXISTING PORTABLE BUILDING COMPLETE WITH ALL STRUCTURE FOOTINGS AND FOUNDATIONS, WOOD, CONCRETE OR OTHER AS FOUND. DISCONNECT AND REMOVE UTILITIES BACK TO NEAREST VAULT, ELECTRICAL BOX OR PANEL WHICH IS TO REMAIN. REMOVE AND CAP WET UTILITIES TO AT LEAST 5 FEET FROM THE BUILDING. SEE UTILITY DEMOLITION PLAN.

10. REMOVE EXISTING WOOD OR STEEL RAMP OR STAIR ASSEMBLY.

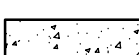
11. REMOVE EXISTING BENCH TO INCLUDE CONCRETE BASE AND/OR SLAB. BACKFILL WITH 95% COMPACTED CLASS II AB IN 6" LIFTS. PATCH EXISTING SURFACING UNLESS IN AN AREA OF NEW PAVING WORK.

12. REMOVE EXISTING SIGN TO INCLUDE POST AND CONCRETE BASE. BACKFILL VOID PER EARTHWORK SPECIFICATIONS, OR WITH CLASS II AB COMPACTED IN 6" LIFTS, EACH TO 95%.

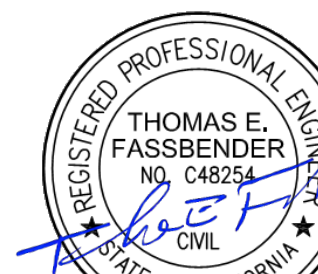
13. EXISTING DRAIN INLET TO REMAIN. REFER TO GRADING AND DRAINAGE PLANS FOR ADDITIONAL INFORMATION.

14. AFTER DISCONNECTION OF UTILITIES FROM PORTABLE, CUT CONDUITS BELOW GRADE AND INSTALL 900 SWEEPS UP INTO NEW TRAFFIC RATED ELECTRICAL BOX SET FLUSH WITH EXISTING GRADE. PATCH SURROUNDING PAVING TO MATCH EXISTING SECTION.

15. EXISTING UTILITY VAULT, BOX OR STRUCTURE TO REMAIN. PROTECT FROM DAMAGE.

 16. REMOVE EXISTING CONCRETE PAVING AND BASE ROCK. WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.

17. SALVAGE BACKSTOP FOR RE-INSTALLATION.



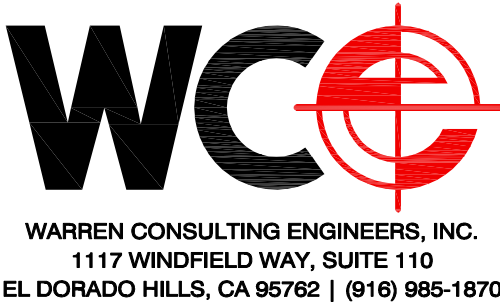


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INCREMENT 01  
RELOCATABLES BUILDINGS  
HOUSTON SCHOOL  
DEMOLITION PLAN

CONSULTANT



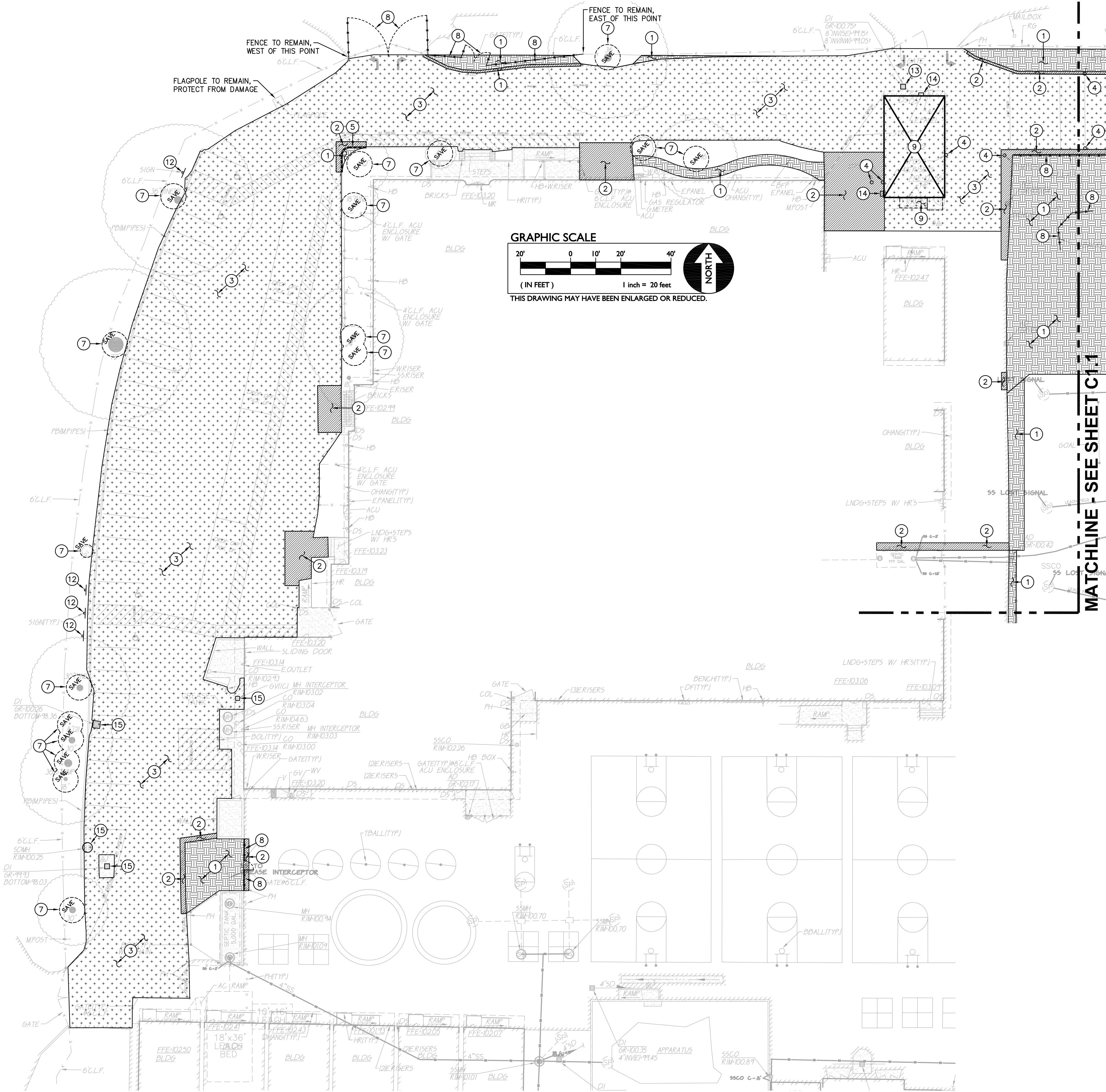
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## DEMOLITION GENERAL NOTES

- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2014 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
- ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.
- SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
- CONTRACTOR SHALL AVOID DAMAGE TO EXISTING PLANTING AND IRRIGATION ALONG EDGES OF DEMOLITION AND NEW PAVEMENT. CONTRACTOR SHALL REPAIR ANY DAMAGE, TO INCLUDE NEW IRRIGATION LINES, NEW HEADS, NEW BARK/MULCH AND NEW SOD TURF WHERE NECESSARY.

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  - EXISTING UTILITY VAULT, BOX OR STRUCTURE TO REMAIN. PROTECT FROM DAMAGE.
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INCREMENT 01  
RELOCATABLES BUILDINGS  
HOUSTON SCHOOL  
DEMOLITION PLAN

CONSULTANT



WARREN CONSULTING ENGINEERS, INC.  
1117 WINDFIELD WAY, SUITE 110  
EL DORADO HILLS, CA 95762 | (916) 985-1870

PROJECT NO.	REVISIONS	BY
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C1.2

OF 102 SHEETS



Attachment B

Photographs





Existing bus parking area, looking east from the west end of the lot; 04/04/19. There will be minor modifications to this parking lot.



East edges of the existing class modulars, looking south from Acampo Road; 04/04/19.





Area just south of the existing bus parking area, looking east; 04/04/19. Construction in this area will include modifications to the parking lot and installation of a few modular buildings.



Two ornamental trees (noted) will be removed prior to construction in this area, looking west; 04/04/19. These trees were searched for nesting birds and none were observed.





Parking lot along the west side of the school, looking north; 04/11/19.



Parking lot along the north side of the school, looking east; 04/11/19. The modular building (noted) will be removed.





Water tank site (noted), looking southwest from the manicured field; 04/04/19. A water tank will be constructed in the southwest corner of the field.



Water tank site, looking west; 04/04/19.





Large trees along the east edge of the school, looking south; 04/04/19. For completeness, all trees along the edges of the field were searched for nesting birds.



Manicured lawn just south of where the modular buildings will be placed, looking east; 04/04/19.





Bus parking area along Acampo Road, looking west; 04/11/19. The Swainson's hawk nest is not visible from this area.



Stick nest (circled) in the eucalyptus west of the school parking lot, looking southeast; 04/11/19. Swainson's hawks were observed constructing this nest.





Northern flicker hollowing out a cavity in a tree near the water tank site, looking northwest; 04/04/19. Construction will occur toward the end of the general avian nesting season.



Stick nest in a large oak just east of the water tank site, looking southeast; 04/04/19. No birds were observed using this nest during the surveys.

Attachment C

CNDDDB Summary Report and Map





# Selected Elements by Scientific Name

## California Department of Fish and Wildlife

### California Natural Diversity Database



Query Criteria: Quad</span> IS </span>(Lockeford (3812122)</span> OR </span>Lodi North (3812123))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Agelaius tricolor</i></b> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<b><i>Ambystoma californiense</i></b> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<b><i>Branchinecta lynchi</i></b> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<b><i>Branchinecta mesovallensis</i></b> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
<b><i>Buteo swainsoni</i></b> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<b><i>Castilleja campestris</i> var. <i>succulenta</i></b> succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
<b><i>Desmocerus californicus dimorphus</i></b> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Legenere limosa</i></b> legenere	PDCAM0C010	None	None	G2	S2	1B.1
<b><i>Lepidurus packardii</i></b> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
<b><i>Linderiella occidentalis</i></b> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<b><i>Melospiza melodia</i></b> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<b><i>Northern Hardpan Vernal Pool</i></b> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<b><i>Oncorhynchus mykiss irideus</i> pop. 11</b> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<b><i>Pogonichthys macrolepidotus</i></b> Sacramento splittail	AFCJB34020	None	None	GNR	S3	SSC
<b><i>Rana boylei</i></b> foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
<b><i>Sagittaria sanfordii</i></b> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<b><i>Setophaga petechia</i></b> yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC

Record Count: 18

### BIOS Layers

+ ☐ Spotted Owl Observations  
[ds704]

+ ☐ Spotted Owl Observations  
Spider Diagram [ds705]

+ ☐ Unprocessed Data from  
CNDDDB Online Field Survey  
Form [ds1002]

+ ☐ Northern Spotted Owl -  
Final Critical Habitat - USFWS  
[ds156]

- ☒ California Natural Diversity  
Database (CNDDDB) Commercial  
[ds85]

### Symbology

- Plant (80m)
- Plant (specific)
- Plant (non-specific)
- Plant (circular)
- Animal (80m)
- Animal (specific)
- Animal (non-specific)
- Animal (circular)
- Terrestrial Comm. (80m)
- Terrestrial Comm. (specific)

