PORTABLE BUILDING ONSITE RELOCATION LIBERTY HIGH SCHOOL T-WING PORTABLE BUILDINGS 850 Second Street, Brentwood, California 94513 LIBERTY UNION HIGH SCHOOL DISTRICT

CONSTRUCTION DOCUMENTS

SYMBOLS		ABBR	EVIATIONS		
		A.B. A.C.	Anchor Bolt Asphalt Concrete	LAM.	Laminate
		A.C. A.D. ADJ.	Area Drain Adjustable	LAV. L.S. L.L.V.	Lavatory Lag Screw Long Leg Vertical
NORTH	NORTH ARROW	ADJCT. AGGR.	Adjacent Aggregate	L.L.H. LT.	Long Leg Horizontal Light
1 DETAIL REFERENCE	BUILDING SECTION	A.F.F. ALT.	Above Finished Floor Alternate	MAX. M.B.	Maximum Machine Bolt Mainture Parrier
A0.1 SHEET NUMBER	BUILDING SECTION	ALUM. ANG.	Aluminum Angle	M.C. MECH.	Moisture Barrier Medicine Cabinet Mechanical
1 DETAIL REFERENCE A0.1 SHEET NUMBER	WALL SECTION	APPROX. AWN. ©	Approximate Awning	MEMB. MFR.	Membrane Manufacturer
1 DETAIL REFERENCE A0.1 SHEET NUMBER	DETAIL	BD. BITUM.	At Board Bituminous	MIN. MIR.	Minimum Mirror
GRID REFERENCE	COLUMN GRIDS	BLDG. BLK.	Building Block	MISC. MLDG. M.O.	Miscellaneous Molding Masonry Opening
1 DETAIL REFERENCE		BM. BTWN.	Beam Between	м.О. М.R. М.Т.	Moisture Resistent Metal Threshold
A0.1 SHEET NUMBER	INTERIOR ELEVATIONS	CAB. C.B. CEM.	Cabinet Catch Basin Cement	MTD. (N) N.I.C.	Mounted New
101 ROOM NUMBER	ROOM NUMBERS	CER. C.I.	Ceramic Cast Iron Piping	NOM.	Not In Contract Nominal
A GLASS TYPE	WINDOW TYPES	C.J.	Control Joint Ceiling Joist	N.T.S. OBS. O.C.	Not To Scale Obscure On Center
O1 DOOR NUMBER	DOOR TYPES	CL CLG.	Center Line Ceiling	0.0. 0.D. 0.H.	Outside Diameter Overhang, Overhead
	VALL TYPE	CLKG. CLO. CLR.	Caulking Closet Clear	OPNG. P. P & S	Opening Pole Pole and Shelf
3	KEYNDTE	CNTR. C.O.	Counter Clean Out	P & S P.D. P.D.F. PKT.	Pole Pole and Shelf Perforated Drain Powder Driven Fastener Pocket
3	NE INU IE	COL. CONC.	Cased Opening Column Concrete	PEN P.E.N.	Penetration Plywood Edge Nail
	ELEVATION MARKER	CONT. C.T.	Continuous Ceramic Tile	P.G. & E. PL. PLAS.	Pacific Gas & Electric Plate Plaster
	PROPERTY LINE	CTR. CTSK.	Center Countersink	PLAS. PL. LAM. PLYWD.	Plaster Plastic Laminate Plywood
сиятелетическопическопически X выполнителемическопическопически	FENCE	C.W. D.A.	Cold Water Disabled Access Disabled Accessible	PNT. PT.	Paint Point
	STORM DRAIN LINE	DBL. DET.	Double Detail	P.T.D. Q.T.	Paper Towel Dispenser Quarry Tile
	WATER LINE	D.F. DIA.	Douglas Fir Diameter	R. R / RAD	Risers (stair) Radius
-	GAS LINE	DN. DO.	Down Do Over, Ditto	R.Á.R. R.D. REF.	Return Air Register Roof Drain Reference
The construction of the second secon	TELEPHONE LINE	DR. DS. DW.	Door Downspout Dishwasher	REINF.	Refrigerator Reinforced
nopessestormantanismustations 📱 sourceutanismustations	POWER LINE	DWG.	Drawing Existing	REQD. RET.	Required Retaining
eccentration of the second se	SANITARY SEWERLINE	(E) EA. EL.	Each Elevation	R.J. RM.	Roof Joist Room Rough Opening
<u>A</u>	FIRE HYDRANT	ELEC. E.P.	Electrical Electrical Panel	R.O. RWD. R.W.L.	Rough Opening Redwood Rain Water Leader
ter an en antis a second car a second car a second	WATER VALVE	EQ. E.W. EXH.	Equal Each Way Exhaust	S.A.R. S.C.	Supply Air Register Solid Core
<u>M</u>	WATER METER	EXIST. EXP.	Existing Expansion	SCHED. S.D.	Schedule Smoke Detector
МН	MANHOLE	F.A.U. F.B.	Forced Air Unit Flat Bar	SECT. S.F. SH.	Section, Sectional Square Feet Shelf
СВ	CATCH BASIN	F.D. FDN.	Floor Drain Foundation	S.H. SHR.	Single Hung Shower
00	CLEAN OUT BOX	F.G. FIN.	Fiberglass Finish Grade Finish, Finished	SHT. SIM.	Sheet Similar
	POLE AND ANCHOR	F.E. F.J.	Fire Extinghisher Floor Joist	SL. SPEC.	Sliding Specification
X SL	STREET LIGHT	FLR. FLASH.	Floor Flashing	SQ. S.S. S.S.D.	Square Sanitary Sewer See Structural Drawings
nataraanaanaanaa 000 aaraanaa		FLUOR. F.O.S.	Fluorescent Face of Stud	S,ST. STD.	Stainless Steel Standard, Stud
PPTP	POWER POLE TELEPHONE POLE	FTG. FURR. F.V.	Footing Furring, Furred Field Verify	STL. STRL.	Steel Structural
	/ Labala / / Haj/Nar / Litata	FX. G.	Fixed Gas	S.W. SYM. T.	Shear Wall Symetrical Tread, Treads
EARTH	- 11 1	GA. GAL.	Gage Galvanized	T&B T&G	Top and Bottom Tongue and Groove
<u>k.4.3225225275250</u>		G.C.O. G.D. G.F.I.	Grade Clean Out Garbage Disposer Ground Fault Interrupt	T.B. T.D.	Towel Bar Tie Down
1286.55		G.I. GL.	Galvanized Iron Glass	TH. THK. T.L.	Threshold Thick Tight Line
BRICK (I	LARGE SCALE ONLY)	G/L GR. G.S.M.	Glu—lam Grade Galvanized Sheet Metal	T.O. T.P.H.	Top Of Toilet Paper Holder
	MASONRY UNIT (LARGE SCALE ONLY)	GYP. H.B.	Gypsum Hose Bibb	T.S. T.V. TYP.	Tube Steel Television Typical
	MASONRY UNIT (SMALL SCALE ONLY)	H.C. H.D.	Hollow Core Hold Down	UNF. U.N.O.	Unfinished Unless Noted Otherwise
METAL (LARGE SCALE ONLY)	HDR. HDWD. HGT.	Header Hardwood Height	V VERT. V.F.B.	Vent Pipe Vertical Vent From Below
		HORIZ. HR.	Horizontal Handrail, Hour	V.T.R. W	Vent Thru Roof Waste Pipe With
	1997).	H.S. HTR. H.W.	Horizontal Siding Heater Hot Water	W/ W / O WD. WDW.	Without Wood
FINISH W		I.D. INSUL.	Inside Diameter Insulation	WDW. WFB WH	Window Waste Pipe From Below Water Heater
	UGH	I.J. J.H. JST.	Wood "I" Truss Joist Hanger Joist	W.P.	Weather Protected Waterproof
BLDCKING	i	JT. KIT.	Joint Kitchen	W.R. W.S. WT.	Water Resistant Weather Stripping Weight
BATT INS	ULATION	K.S.	Kitchen Sink	W.W.M.	Welded Wire Mesh
-	SULATION (LARGE SCALE ONLY)	TTA:			
	CAL TILE	UECI	ARATION		
FILITITITI GYPSUM I		THESE CON	STRUCTION DOCUMENTS ARE STR	NCTLY FOR THE	CLIENT'S USE ONLY FOR
<u></u>	TUD WALL		NANCE, OPERATION, AND OCCUP ONSTRUCTION, IMPROVEMENT, RE FEREIN.		
METAL SI	NOD WREE	ARE INCOMP	AND SPECIFICATIONS ARE INSTR PLETE WITHOUT THE INTERPRETA	TION AND INVO	LVEMENT OF THE LICENSED
		OR REGISTE	RED PROFESSIONAL OF RECORD; AND THE VARIOUS ENGINEERING	INCLUDING BU	T NOT LIMITED TO THE
		IT IS ACKNO	" DWLEDGED THAT SUBDIVISION (a) SSIONS CODE OF THE STATE OF) OF SECTION 5	536.25 OF THE BUSINESS
		ARCHITECT	SSIONS CODE OF THE STATE OF WHO SIGNS DRAWINGS, SPECIFIC SPONSIBLE FOR DAMAGE CAUSEI	ATIONS, REPOR	TS, OR DOCUMENTS SHALL

OF, THESE DRAWINGS, SPECIFICATIONS, REPORTS, OR DOCUMENTS, WHERE THE SUBSEQUENT CHANGES OR USES, INCLUDING CHANGES OR USES MADE BY STATE OR LOCAL GOVERNMENT AGENCIES, ARE NOT AUTHORIZED OR APPROVED IN WRITING BY

REPORTS, OR OTHER DOCUMENTS.

MARK ALBERTSON C-19586 ARCHITECT OF RECORD

THE LICENSED-ARCHITECT WHO ORIGINALLY SIGNED THE DRAWINGS, SPECIFICATIONS,

DSA FILE #: 7-14 DSA APPLICATION #: 01-118034

OAUSD PROJECT TRACKING #: 61721-71

GENERAL NOTES

- 1. ALL CONSTRUCTION, WORKMANSHIP, AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC), 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 28 CFR PART 35 FOR TITLE II ENTITIES, APPLICABLE SECTIONS OF THE STATE BUILDING CODE, TITLE 24, AND OTHER APPLICABLE CODES AS ADOPTED BY DSA.
- ALL CONSTRUCTION, WORKMANSHIP, AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPAL PLANNING AND BUILDING PERMIT DEPARTMENT AND THE MUNICIPAL FIRE DEPARTMENT WHERE APPLICABLE.
 IF A DISCREPENCY OR CONFLICT BETWEEN CODE REQUIREMENTS, DRAWINGS, DETAILS,
- SPECIFICATIONS, ENGINEERING DATA, MANUFACTURER'S RECOMMENDATIONS, OR OWNER PROVIDED INFORMATION BECOMES KNOWN TO THE CONTRACTOR, HE OR SHE SHALL PROMPTLY REPORT THE CONFLICT OR DISCREPENCY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE FOR CLARIFICATION AND CORRECTIVE ACTION.
- 4. IN NO CASE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO PRECEEDING WITH SUBSEQUENT WORK, ACTIVITY OR IMPROVEMENT.
- 5. ALL ENGINEERING DRAWINGS, INCLUDING CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICALARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK EACH DISIPLINE'S WORK BEFORE PROCEEDING WITH INSTALLATION OF THE RELATED WORK. ANY DISCREPENCES SHALL BE PROMPTLY REPORTED IN WRITING TO THE ARCHITECT OR OWNER'S REPRESENTATIVE FOR CLARIFICATION AND CORRECTIVE ACTION. IN ADDITION, ANY WORK INSTALLED IN CONFLICT WITH THE REQUIREMENTS IDENTIFIED HEREIN WITHOUT NOTFICATION SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
- 6. ALL SYMBOLS AND ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING ABBREVIATIONS OR SYMBOLS AS TO EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- 7. THIS PROJECT IS A FULLY ACCESSIBLE BUILDING AS PER CHAPTER 11 OF THE 2016 CALIFORNIA BUILDING CODE, REQUIRING MANDATORY COMPLIANCE.
- 8. ALL GLAZING , AS LOCATED IN HAZARDOUS LOCATIONS, SHALL COMPLY WITH GLAZING REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE, CHAPTER 24, SECTION 2406.
- 9. ALL PENETRATIONS AND JOINTS OF FIRE RESISTIVE ROOF-CEILING ASSEMBLES SHALL BE PROTECTED AS PER THE REQUIREMENTS OF CBC SECTIONS 713 AND 714.
- 10. ALL HVAC DUCTS PENETRATING FIRE RATED OCCUPANCY SEPARATIONS SHALL BE EQUIPPED WITH SMOKE AND FIRE DAMPERS AS PER THE REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE, SECTION 716.
- 11. INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH THE FLAME-SPREAD AND FIRE RESISTIVE REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE, CHAPTER 8.
- REFERENCE TABLE 803.9.

 12.
 COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND
- DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED. 13. PRIOR TO START OF CONSTRUCTION OF THE CURRENT PROJECT, THE PROJECT IOR SHALL COORDINATE WITH THE AOR TO PERFORM AN INSPECTION OF THE EXISTING RELOCATABLE BUILDINGS AND THEIR FOUNDATIONS TO VERIFY THAT THE RELOCATABLE BUILDINGS AND AS-BUILT FOUNDATIONS CONFORM TO THE ORIGINAL DSA APPROVED PC-DRAWINGS. IN
- ADDITION, THE INSPECTION SHALL ALSO VERIFY THAT THE EXISTING RELOCATABLE BUILDINGS AND FOUNDATIONS ARE STRUCTURALLY SOUND AND HAVE NOT BEEN ALTERED NOR SUFFERED ANY STRUCTURAL DETERIORATIONS. AN INSPECTION REPORT BY THE IOR SHALL BE SUBMITTED TO DSA'S DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND RECORD.
 14. DSA-103 TESTING AND INSPECTION (T&) FORM REQUIRED.

APPLICABLE BUILDING STANDARDS

-	 analogi may njanite di kelamat Girangi adari pinihi di kiten digaratike Mise		
	NFPA 13 NFPA 14 NFPA 17 NFPA 17a NFPA 20	AUTOMATIC SPRINKLER SYSTEMS STANDPIPE SYSTEMS DRY CHEMICAL EXTINGUISHING SYSTEMS WET CHEMICAL SYSTEMS STATIONAL PUMPS	2016 2013 2013 2013 2013 2016
CONTRACT OF	NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2013
	NFPA 24	PRIVATE FIRE MAINS	2016
	NFPA 72	NATIONAL FIRE ALARM CODE	2016
	NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016
	NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2016
	NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2016
	NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2016
	ICC 300	ICC STANDARDS ON BLEACHERS, FOLDING, AND TELESCOPING	2015
	 	SEATING AND GRAND STANDS	2012
	UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS	* * * *
0.000	UL 464	FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING	2005
	01 107	SYSTEMS INCLUDING ACCESSORIES	2003
100000000	UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING	2000
		SYSTEMS	1999
	UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002
STATES IN			

APPLICABLE BUILDING CODES

- 2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2015INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIF. AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2014/NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
- □ 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)
- □ 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- □ 2007 ASME A17.1 (with A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS
- AND ESCALATORS

 CONTRA COSTA ENVIRONMENTAL HEALTH DEPT. 2012 CALIFORNIA HEALTH AND
 SAFETY CODE

VICINITY MAP

NORTH



SCOPE OF WORK FOR THE PAVING PROJECT IS LIMITED TO PAVING AND MINOR SITEWORK PER THE MARKED UP DRAWINGS ATTACHED.

PROJECT DESCRIPTION

FIRE HAZARD SEVERITY ZONE.

THE PROPOSED SCOPE OF WORK INCLUDES THE RELOCATION OF (12) 24x40 PORTABLE CLASSROOM BUILDINGS, RELOCATION OF (1) 12x40 PORTABLE RESTROOM BUILDING, AND MOVING OF (1) 24x40 CLASSROOM BUILDING ALL LOCATED ON THE LIBERTY HIGH SCHOOL CAMPUS. THE LIBERTY HIGH SCHOOL CAMPUS IS LOCATED AT 820 SECOND STREET, BRENTWOOD, CALIFORNIA. LIBERTY HIGH SCHOOL IS NOT LOCATED IN A FLOOD-PRONE AREA OR IN A

TOTAL SQUARE FOOTAGE OF THE PROJECT IS:

IMPROVEMENT SITE AREA:46,000 Square Feet (Approximate)PORTABLE BUILDING AREA:12,960 Square Feet

THE PORTABLE CLASSROOM BUILDINGS SHALL BE INSTALLED UTILIZING DSA APPROVED TEMPORARY FOUNDATION ATTACHMENT SYSTEM. THE PORTABLE CLASSROOM BUILDINGS SHALL FULLY ACCESSIBLE WITH ACCESS RAMPS AND SIGNAGE MEETING CURRENT ACCESS REQUIREMENTS.

PORTABLE BUILDING IMPROVEMENTS ARE LIMITED TO REPLACEMENT OF EXISTING EXTERIOR SIDING AND TRIM THAT HAS EXPERIENCED DEGREGATION AS WELL AS INSTALLATION OF (1) HI-LOW DRINKING FOUNTAIN AT THE RESTROOM PORTABLE BUILDING.

SITE IMPROVEMENTS SHALL INCLUDE BUILDING PAD PREPARATION, STORM DRAINAGE, ASPHALT PAVING, ACCESSIBLE PARKING. CURB RAMPS, CHAIN LINK FENCING, AND PARKING LOT LIGHT POLES. THE PORTABLE BUILDINGS SHALL REQUIRE UTILITY IMPROVEMENTS INCLUDING WATER SERVIE, SEWER SERVICE, ELECTRICAL SERVICE, FIRE ALARM, VOICE EVACUATION, AND COMMUNICATIONS CONNECTIONS.

DSA ADMINISTRATIVE REQUIREMENTS

- 1. A COPY OF PART 1 AND 2 CCR SHALL BE KEPT ONSITE AT ALL TIMES.
- 2. ALL CHANGE ORDERS AND ADDENDA TO BE SIGNED BY THE ARCHITECT, THE OWNER, AND APPROVED BY DSA. CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338.
- 3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335.
- TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335.
 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE
- PER SECTION 4-331.
 6. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 3-342.
- SUPERVISION OF CONSTRUCTION BY DSA SHALL BE INACCORDANCE WITH 4-334.
 CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-5)
- CONTRACTOR, INSPECTOR, ARCHIECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 535-5) IN ACCORDANCE WITH SECTION 4-336 AND 4-343.
 THE ARCHITECT AND STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH THE PERFORM THEIR DUTIES IN ACCORDANCE WITH THE PERFORM THE PERFORM THE PERFORM THE PERFORMANCE WITH THE PERFORMANCE AND A PERFORMANCE WITH THE PERFORMANCE AND A PE
- SECTIONS 4-333(a) AND 4-341. 10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THE (RE)CONSTRUCTION OF A SCHOOL BUILDING(S) IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID C.C.R., A CONSTRUCTION CHANGE DOCUMENT (CCD) DETAILING AND SPECIFIYING THE REQUIRED WORK SHALL BE SUBMITTED AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
 DSA IS NOT SUBJECT TO ARBITRATION.

ADDITIONAL DSA NOTES:

- NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
- 2. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
- 3. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWINGS:
- ARCHITECT OR ENGINEER OF RECORD
 STRUCTURAL ENGINEER (WHEN APPLICABLE)
 DELEGATED PROFESSIONAL ENGINEER
- DSA • DSA • DSA • DSA
- MANUFACTURER'S RECOMMENDATIONS.
 5. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIOAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.

EXISTING CONSTRUCTION

PROCEEDING WITH THE REPAIR WORK.

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE

FOR TEMPORARY BUILDINGS, A LETTER SIGNED BY THE SCHOOL DISTRICT SUPERINTENDENT OR THE FACILITY MANAGER SHALL BE PROVIDED INDICATING THAT THE BUILDINGS WITHIN THIS APPLICATION ARE TEMPORARY AND SHALL BE REMOVED FROM THE SCHOOL SITE WITHIN THE APPROPRIATE NUMBER OF YEARS DESCRIBED BELOW. FOR TEMPORARY BUILDINGS UTILIZED FOR EMERGENCY PLACEMENT FOLLOWING A DISASTER, THE MAXIMUM USE SHALL BE LIMITED TO TWO YEARS IN ACCORDANCE WITH SECTION 4–302(b), TITLE 24, CALIFORNIA CODE OF REGULATIONS. FOR TEMPORARY BUILDINGS UTILIZED FOR MODERNIZATION OR OTHER PURPOSES ACCEPTABLE TO DSA, THE MAXIMUM USE SHALL BE LIMITED TO THREE YEARS IN ACCORDANCE WITH CHAPTER 9, PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS.

STATEMENT OF GENERAL CONFORMANCE

Statement of General Conformance FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. 01-118034 File No. 7-44)

The drawings or sheets listed on the cover or index sheet This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

 design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
 coordination with my plans and specifications and is acceptable for incorporation into

1.2.19

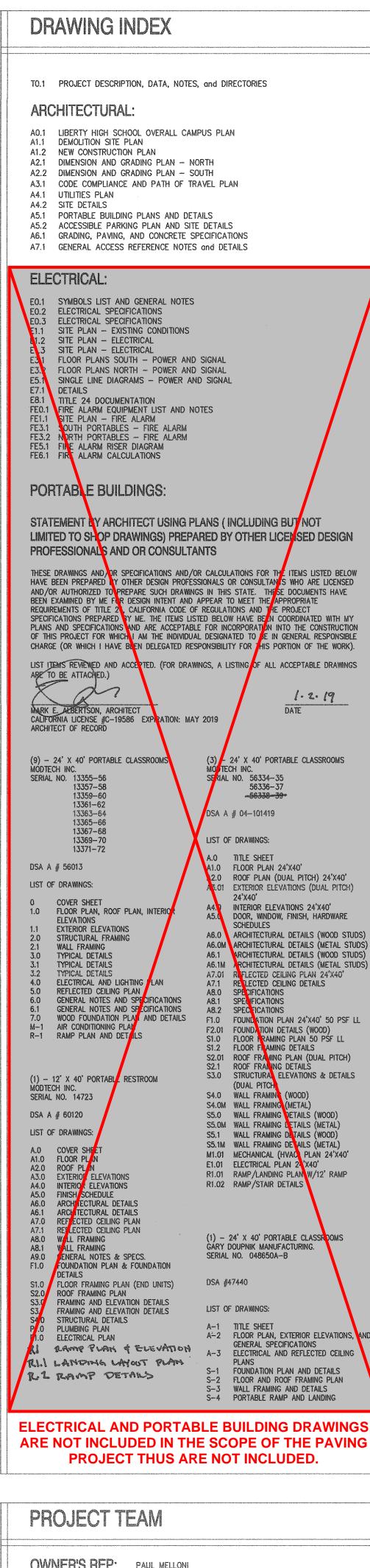
The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

Signature

Architect or Engineer designated to be in general responsible charge

the construction of this project

Mark Albertson Architect C019586 Exp. 05-2019



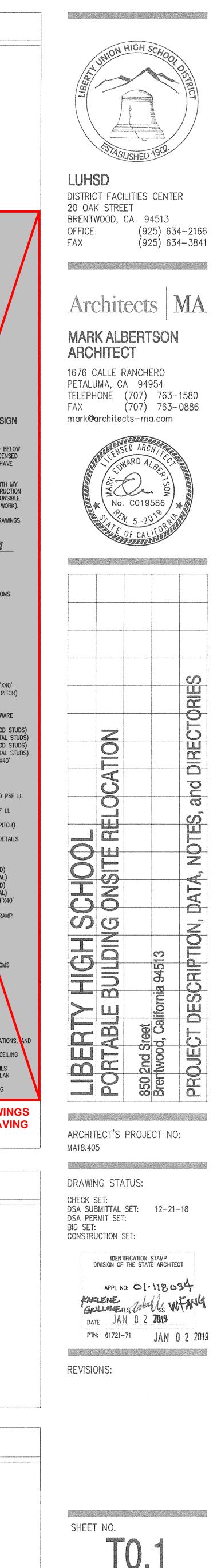
PROJECT TEAM		
OWNER'S REP:	PAUL MELLONI DISTRICT FACILITIES DIRECTOR LIBERTY UNION HIGH SCHOOL DISTRICT 20 OAK STREET BRENTWOOD, CALIFORNIA 94513 OFFICE: (925) 634-3812 x5791	
ARCHITECT:	MARK ALBERTSON ARCHITECTS MA 1676 CALLE RANCHERO PETALUMA, CALIFORNIA 94954 OFFICE: (707) 763—1580 E—MAIL: mark@architects—ma.com	
ELECTRICAL:	PIETER COLENBRANDER O'MAHONY & MYER ELECTRICAL ENGINEERS 4340 REDWOOD HIGHWAY SUITE 245 SAN RAFAEL, CALIFORNIA 94903 OFFICE: (415) 492-0420 E-MAIL: pcolenbrander@ommconsulting.com	
DRAWING S	SET	
ARCHITECT CHEC PRINT DATE:	CK SET -	
DSA SUBMITTAL PRINT DATE:	SET – FOR APPROVAL DECEMBER 21, 2018	

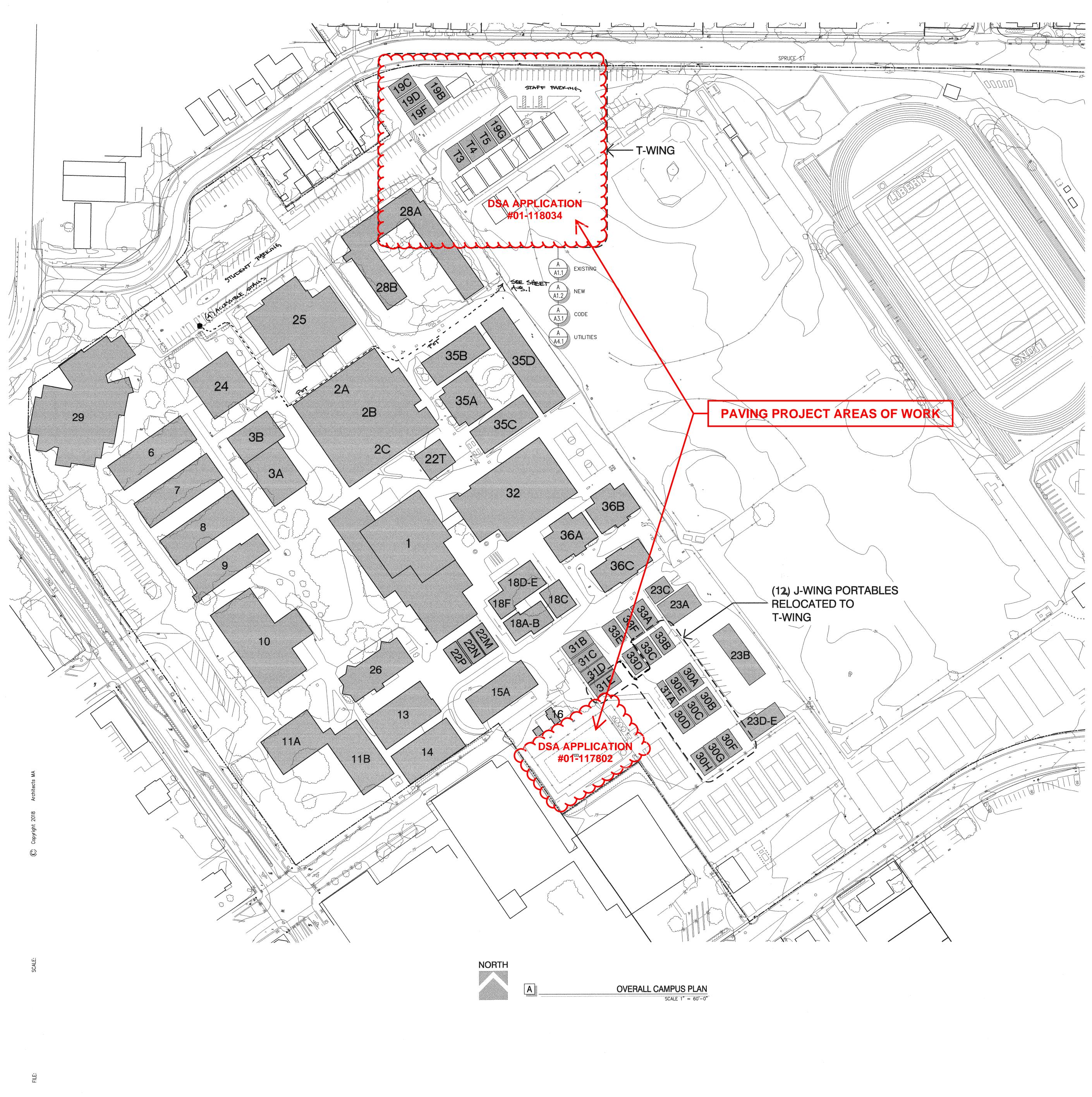
CONTRACTOR BID SET - SUBJECT TO DSA APPROVAL

CONSTRUCTION CONTRACT SET - FOR CONSTRUCTION

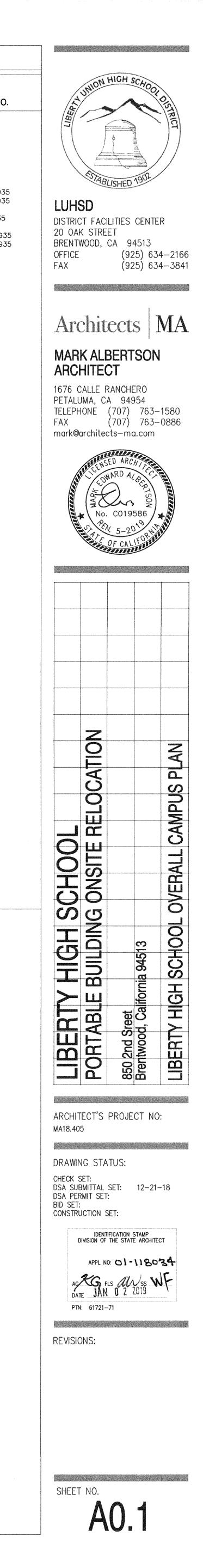
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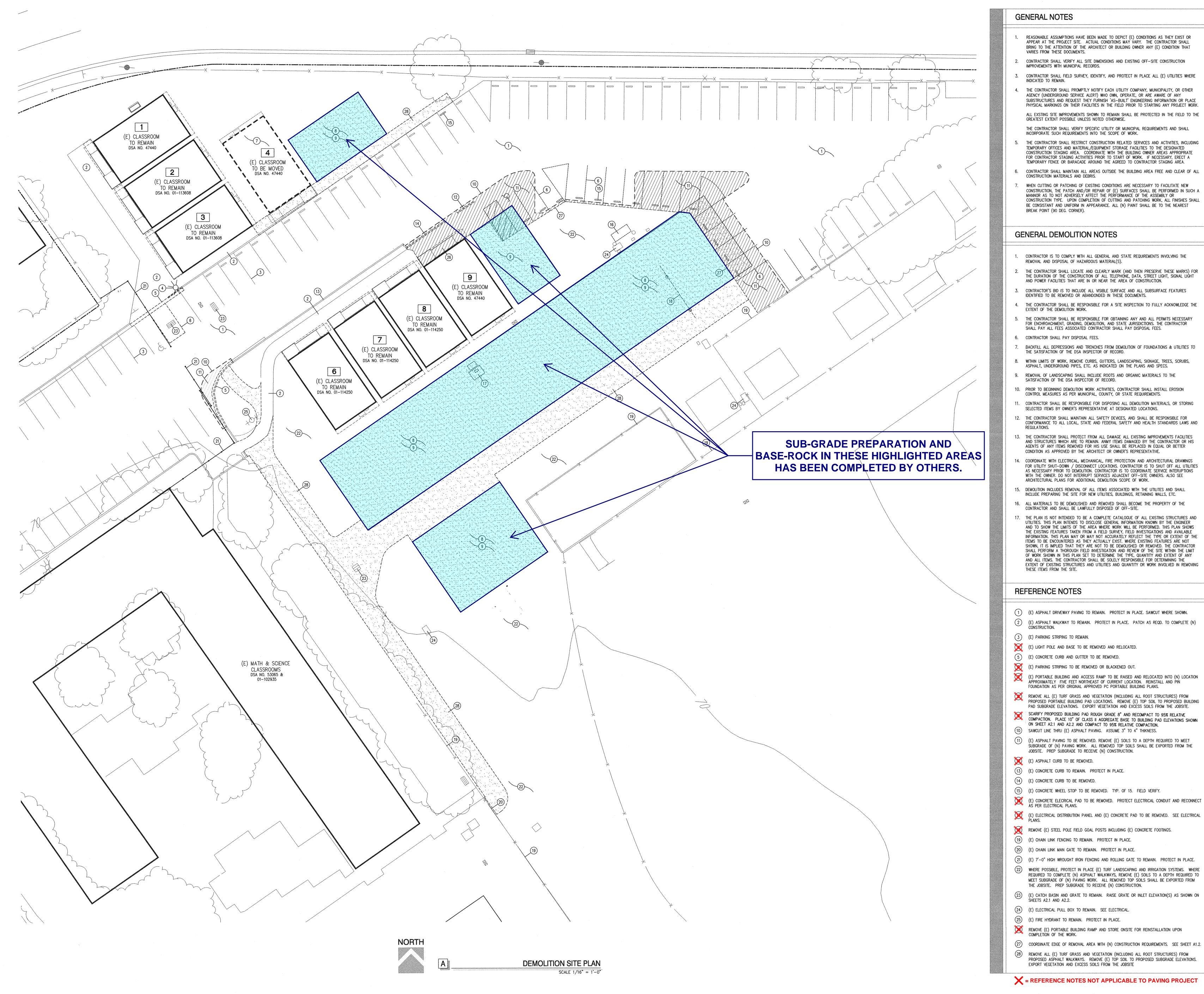
PRINT DATE:





CAMPU	CAMPUS BUILDING SUMMARY				
NO.	BUILDING DESCRIPTION	DSA APPLICATION NO.			
1 2 A 2 B 2 C 3 A 3 B 4 5 6 7 8 9 10 11 A 11 B	GYMNASIUM LANGUAGE & SOCIAL SCIENCE BLDGS LANGUAGE & SOCIAL SCIENCE BLDGS LANGUAGE & SOCIAL SCIENCE BLDGS LIBRARY LIBRARY ADDITION STORAGE BUILDING REMOVED CLASSROOM BUILDING CLASSROOM BUILDING CLASSROOM BUILDING ADMINISTRATION STUDENT ACTIVITY CENTER & CAFETERIA COMPUTER BUILDING ART BUILDING	30513 25083, 106316 25083, 106316 25083, 106316 25083, 106316 53065 NRBD ** - 22109, 53065, 102935 22109, 53065, 102935 8915, 102935 2929, 8915, 102935 25083 54083, 105791, 106935			
12 13 14 15 15 A 16 17 18 A 18 B 18 C 18 D 18 E 18 F 19 A 19 B	NOT USED WOOD SHOP METAL SHOP AUTO SHOP SWIMMING POOL BLDG. AGRICULTURAL BLDGS T1 BIOLOGICAL, PHYSIOLOGY T2 CLOTHING LABORATORY T3 COMPUTER LABORATORY T4 PHYSICAL/EARTH SCIENCE LAB. T5 CHEMISTRY LABORATORY T6 BIOLOGY REMOVED CC8 SPECIAL EDUCATION	- 14568 7354 3518 25083 7894 NRBD ** 46363 46363 46363 46363 46363 46363 46363 46363 46363 46363 46363 46363			
19 C 19 D 19 E 19 F 20 B 20 C 21 22 M 22 N 22 P 22 Q 22 R 22 S	CC9 SPECIAL EDUCATION CC9 SPECIAL EDUCATION NOT USED CC12 SPECIAL EDUCATION CC13 SPECIAL EDUCATION REFRESHMENT STAND BLEACHERS BUS GARAGE WEIGHTS ROOM WEIGHTS ROOM WEIGHTS ROOM REMOVED REMOVED REMOVED	47440 01113608 47440 NRBD ** 25083 NRBD ** 48458 48458 48458 			
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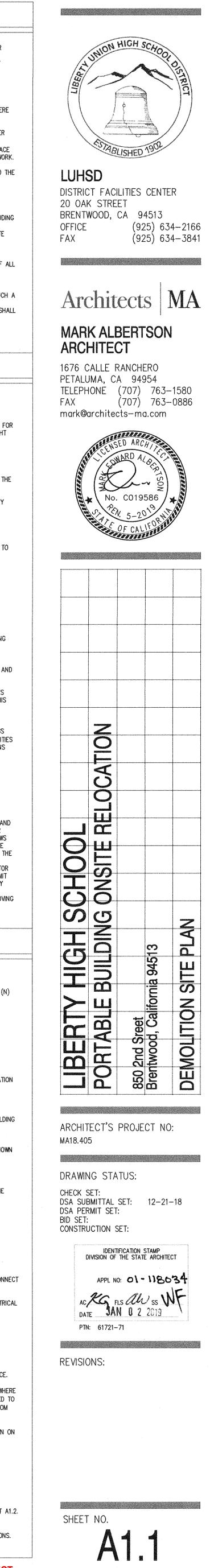


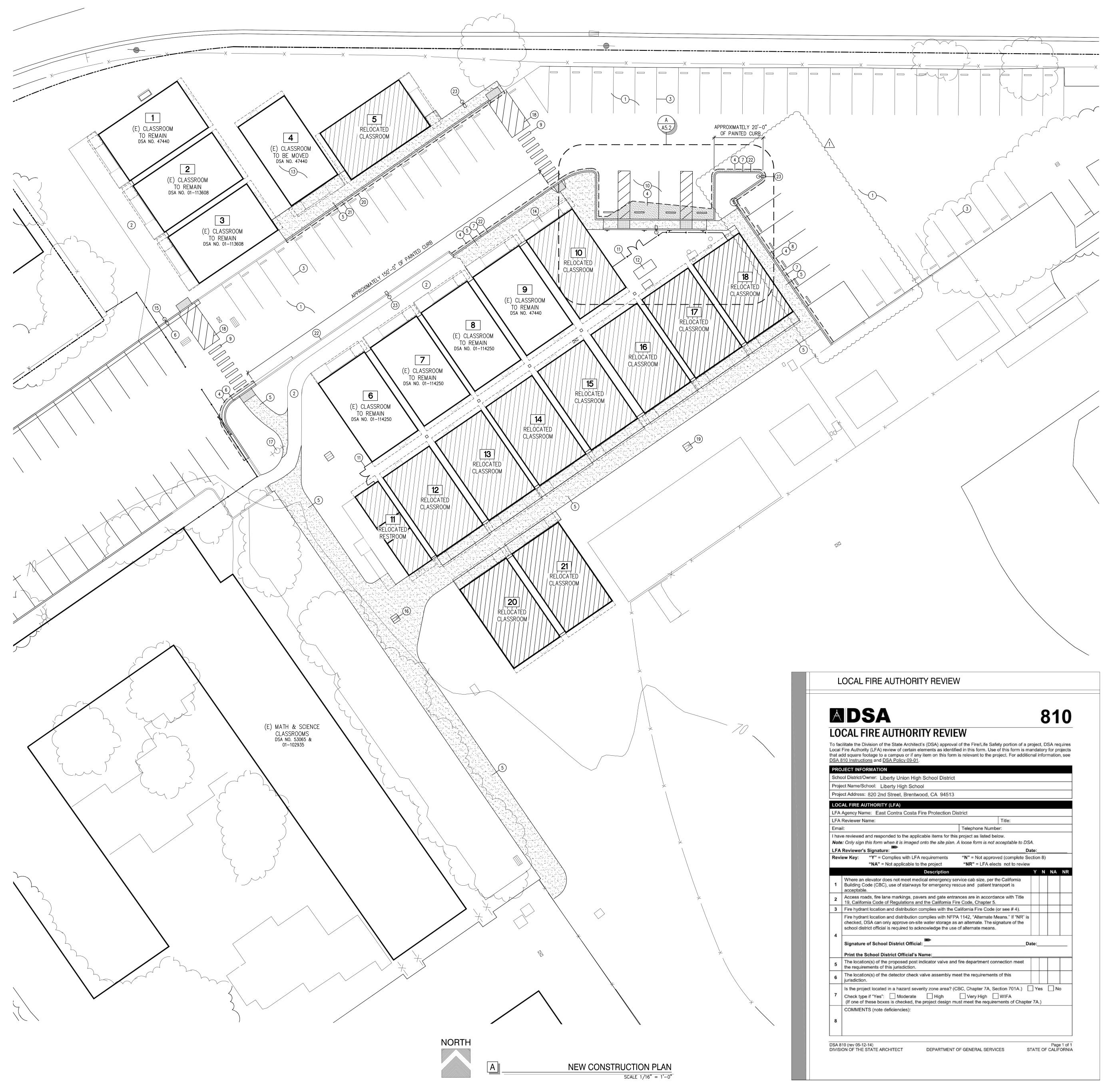
GE	ENERAL NOTES
1.	REASONABLE ASSUMPTIONS HAVE BEEN MADE TO DEPICT (E) CONDITIONS AS THEY EXIST OR APPEAR AT THE PROJECT SITE. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT OR BUILDING OWNER ANY (E) CONDITION THAT VARIES FROM THESE DOCUMENTS.
2.	CONTRACTOR SHALL VERIFY ALL SITE DIMENSIONS AND EXISTING OFF-SITE CONSTRUCTION IMPROVEMENTS WITH MUNICIPAL RECORDS.
3.	CONTRACTOR SHALL FIELD SURVEY, IDENTIFY, AND PROTECT IN PLACE ALL (E) UTILITIES WHERE INDICATED TO REMAIN.
4.	THE CONTRACTOR SHALL PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY (UNDERGROUND SERVICE ALERT) WHO OWN, OPERATE, OR ARE AWARE OF ANY SUBSTRUCTURES AND REQUEST THEY FURNISH 'AS-BUILT' ENGINEERING INFORMATION OR PLACE PHYSICAL MARKINGS ON THEIR FACILITIES IN THE FIELD PRIOR TO STARTING ANY PROJECT WOR
	ALL EXSTING SITE IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED IN THE FIELD TO T GREATEST EXTENT POSSIBLE UNLESS NOTED OTHERWISE.
	THE CONTRACTOR SHALL VERIFY SPECIFIC UTILITY OR MUNICIPAL REQUIREMENTS AND SHALL INCORPORATE SUCH REQUIREMENTS INTO THE SCOPE OF WORK.
5.	THE CONTRACTOR SHALL RESTRICT CONSTRUCTION RELATED SERVICES AND ACTIVITIES, INCLUDIN TEMPORARY OFFICES AND MATERIAL/EQUIPMENT STORAGE FACILITIES TO THE DESIGNATED CONSTRUCTION STAGING AREA. COORDINATE WITH THE BUILDING OWNER AREAS APPROPRIATE FOR CONTRACTOR STAGING ACTIVITIES PRIOR TO START OF WORK. IF NECESSARY, ERECT A TEMPORARY FENCE OR BARACADE AROUND THE AGREED TO CONTRACTOR STAGING AREA.
6.	CONTRACTOR SHALL MAINTAIN ALL AREAS OUTSIDE THE BUILDING AREA FREE AND CLEAR OF A CONSTRUCTION MATERIALS AND DEBRIS.
7.	WHEN CUTTING OR PATCHING OF EXISTING CONDITIONS ARE NECESSARY TO FACILITATE NEW CONSTRUCTION, THE PATCH AND/OR REPAIR OF (E) SURFACES SHALL BE PERFORMED IN SUCH MANNOR AS TO NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ASSEMBLY OR CONSTRUCTION TYPE. UPON COMPLETION OF CUTTING AND PATCHING WORK, ALL FINISHES SHA BE CONSISTANT AND UNIFORM IN APPEARANCE. ALL (N) PAINT SHALL BE TO THE NEAREST BREAK POINT (90 DEG. CORNER).
GE	ENERAL DEMOLITION NOTES
1.	CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
2.	THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKS) FO THE DURATION OF THE CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
3.	CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONDED IN THESE DOCUMENTS.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE TH EXTENT OF THE DEMOLITION WORK.
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCHROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED CONTRACTOR SHALL PAY DISPOSAL FEES.
6.	CONTRACTOR SHALL PAY DISPOSAL FEES.
7.	BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO THE SATISFACTION OF THE DSA INSPECTOR OF RECORD.
8.	WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECS.
9.	REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE DSA INSPECTOR OF RECORD.
10.	PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS PER MUNICIPAL, COUNTY, OR STATE REQUIREMENTS.
11.	CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12.	THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AN REGULATIONS.
13.	THE CONTRACTOR SHALL PROTECT FROM ALL DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANMY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
14.	COORDINATE WITH ELECTRICAL, MECHANICAL, FIRE PROTECTION AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIE AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERLIPTIONS

- AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERUPTIONS WITH THE OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITES AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
- 16. ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
- 17. THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTEND OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

REFERENCE NOTES

	(E) ASPHALT DRIVEWAY PAVING TO REMAIN. PROTECT IN PLACE. SAWCUT WHERE SHOWN.
2	(E) ASPHALT WALKWAY TO REMAIN. PROTECT IN PLACE. PATCH AS REQD. TO COMPLETE (I CONSTRUCTION.
3	(E) PARKING STRIPING TO REMAIN.
\mathbf{X}	(E) LIGHT POLE AND BASE TO BE REMOVED AND RELOCATED.
5	(E) CONCRETE CURB AND GUTTER TO BE REMOVED.
X	(E) PARKING STRIPING TO BE REMOVED OR BLACKENED OUT.
X	(E) PORTABLE BUILDING AND ACCESS RAMP TO BE RAISED AND RELOCATED INTO (N) LOCATE APPROXIMATELY FIVE FEET NORTHEAST OF CURRENT LOCATION. REINSTALL AND PIN FOUNDATION AS PER ORIGINAL APPROVED PC PORTABLE BUILDING PLANS.
X	REMOVE ALL (E) TURF GRASS AND VEGETATION (INCLUDING ALL ROOT STRUCTURES) FROM PROPOSED PORTABLE BUILDING PAD LOCATIONS. REMOVE (E) TOP SOIL TO PROPOSED BUILD PAD SUBGRADE ELEVATIONS. EXPORT VEGETATION AND EXCESS SOILS FROM THE JOBSITE.
	SCARIFY PROPOSED BUILDING PAD ROUGH GRADE 8" AND RECOMPACT TO 95% RELATIVE COMPACTION. PLACE 10" OF CLASS II AGGREGATE BASE TO BUILDING PAD ELEVATIONS SHO ON SHEET A2.1 AND A2.2 AND COMPACT TO 95% RELATIVE COMPACTION.
(10)	SAWCUT LINE THRU (E) ASPHALT PAVING. ASSUME 3" TO 4" THIKNESS.
(11)	(E) ASPHALT PAVING TO BE REMOVED. REMOVE (E) SOILS TO A DEPTH REQUIRED TO MEET SUBGRADE OF (N) PAVING WORK. ALL REMOVED TOP SOILS SHALL BE EXPORTED FROM THE JOBSITE. PREP SUBGRADE TO RECEIVE (N) CONSTRUCTION.
\bigotimes	(E) ASPHALT CURB TO BE REMOVED.
(13)	(E) CONCRETE CURB TO REMAIN. PROTECT IN PLACE.
(14)	(E) CONCRETE CURB TO BE REMOVED.
(15)	(E) CONCRETE WHEEL STOP TO BE REMOVED. TYP. OF 15. FIELD VERIFY.
X	(E) CONCRETE ELECRICAL PAD TO BE REMOVED. PROTECT ELECTRICAL CONDUIT AND RECON AS PER ELECTRICAL PLANS.
X	(E) ELECTRICAL DISTRIBUTION PANEL AND (E) CONCRETE PAD TO BE REMOVED. SEE ELECTR PLANS.
\bigotimes	REMOVE (E) STEEL POLE FIELD GOAL POSTS INCLUDING (E) CONCRETE FOOTINGS.
(19)	(E) CHAIN LINK FENCING TO REMAIN. PROTECT IN PLACE.
20	(E) CHAIN LINK MAN GATE TO REMAIN. PROTECT IN PLACE.
(21)	(E) 7'-0" HIGH WROUGHT IRON FENCING AND ROLLING GATE TO REMAIN. PROTECT IN PLACE
22	WHERE POSSIBLE, PROTECT IN PLACE (E) TURF LANDSCAPING AND IRRIGATION SYSTEMS. WHERE POSSIBLE, PROTECT IN PLACE (E) TURF LANDSCAPING AND IRRIGATION SYSTEMS. WHEET SUBGRADE OF (N) ASPHALT WALKWAYS, REMOVE (E) SOILS TO A DEPTH REQUIRED MEET SUBGRADE OF (N) PAVING WORK. ALL REMOVED TOP SOILS SHALL BE EXPORTED FROM THE JOBSITE. PREP SUBGRADE TO RECEIVE (N) CONSTRUCTION.
23	(E) CATCH BASIN AND GRATE TO REMAIN. RAISE GRATE OR INLET ELEVATION(S) AS SHOWN SHEETS A2.1 AND A2.2.
24)	(E) ELECTRICAL PULL BOX TO REMAIN. SEE ELECTRICAL.
25)	(E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE.





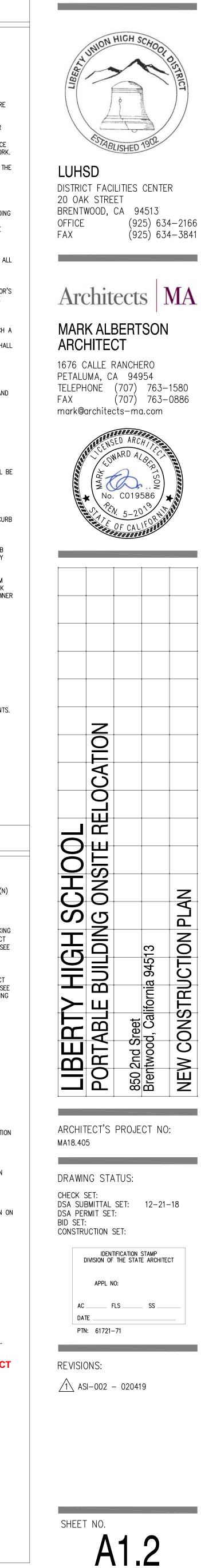
NFORMATION				
ict/Owner: Liberty Union High School District				
e/School: Liberty High School				
ress: 820 2nd Street, Brentwood, CA 94513				
E AUTHORITY (LFA)				
Name: East Contra Costa Fire Protection Dis	trict			
er Name:	Title:			
	Telephone Number:			
wed and responded to the applicable items for this sign this form when it is imaged onto the site plan. A		to DSA.		
ver's Signature:	2.7	Date:		
 "Y" = Complies with LFA requirements "NA" = Not applicable to the project 	"N" = Not approved (comple "NR" = LFA elects not to r		n 8)	
Description		Y	N NA	NR
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s roads, fire lane markings, pavers and gate entran alifornia Code of Regulations and the California Fire	e Code, Chapter 5.			
ydrant location and distribution complies with the Ca	alifornia Fire Code (or see # 4)			
ydrant location and distribution complies with NFPA ed, DSA can only approve on-site water storage as a I district official is required to acknowledge the use of	an alternate. The signature of t	10 George - Contra Maria		
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the School District Official's Name:				
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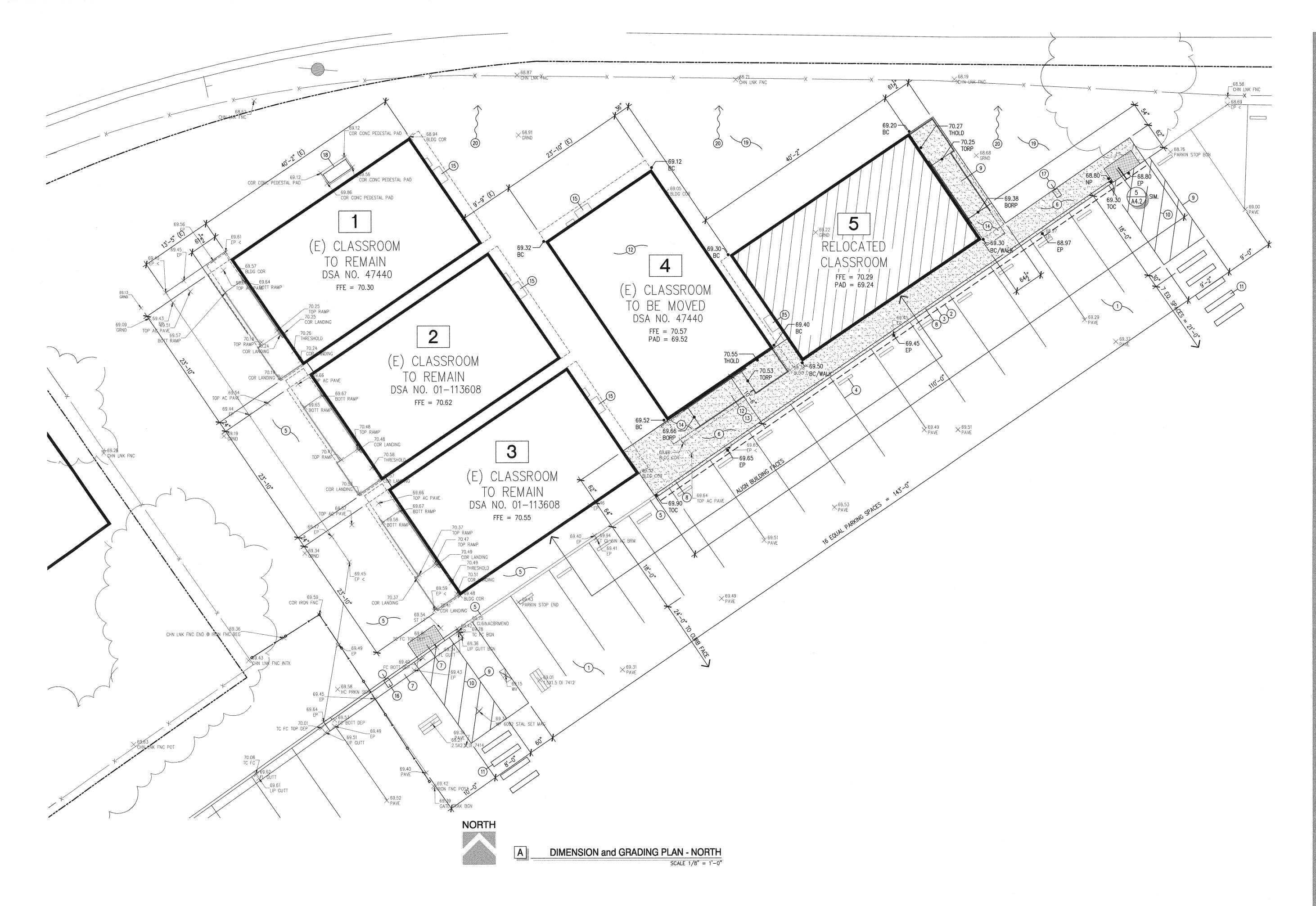
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- 10. WHEN CUTTING OR PATCHING OF EXISTING CONDITIONS ARE NECESSARY TO FACILITATE NEW CONSTRUCTION. THE PATCH AND/OR REPAIR OF (E) SURFACES SHALL BE PERFORMED IN SUCH A MANNOR AS TO NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ASSEMBLY OR CONSTRUCTION TYPE. UPON COMPLETION OF CUTTING AND PATCHING WORK, ALL FINISHES SHALL BE CONSISTANT AND UNIFORM IN APPEARANCE. ALL (N) PAINT SHALL BE TO THE NEAREST BREAK POINT (90 DEG. CORNER).
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PROIR TO SUBMITTING OF A BID.
- 12. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS. 13. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTACTOR
- SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPAMCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
- 14. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIL SHALL BE RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 15. CONTRACTOR SHALL REPLACE ALL STUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
- 16. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS. CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONISIBILITY 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 NOTTO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL 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 OR THE CONSULTING ENGINEER.
- EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRCTION.
- 19. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLAN NOTES, THE MORE
- STRINGENT REQUIREMENT SHALL GOVERN. 20. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT GEOTECHNICAL REPORT
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS AND COSTS
- ASSOCIATED WITH SAID PERMITS. 22. REFER TO SHEETS A2.1 AND A2.2 FOR ALL DIMENSIONAL CONTROL AND GRADING REQUIREMENTS.
- 23. REFER TO SHEET A3.1 FOR CODE COMPLIANCE.
- 24. REFER TO SHEET A4.1 FOR ALL WATER AND SEWER UTILITY IMPROVEMENTS.
- 25. REFER TO SHEET A5.1 FOR ENLARGED PORTABLE BUILDING PLANS.
- 26. REFER TO SHEET A7.1 FOR TYPICAL ACCESS DETAILS AND REFERENCE NOTES.

REFERENCE NOTES

- (1) (E) ASPHALT DRIVEWAY PAVING TO REMAIN. PROTECT IN PLACE. SAWCUT WHERE SHOWN. (2) (E) ASPHALT WALKWAY TO REMAIN. PROTECT IN PLACE. PATCH AS REQD. TO COMPLETE (N)
- CONSTRUCTION.
- (3) (E) PARKING STRIPING TO REMAIN. (4) (N) 3" THICK ASPHALT PAVING OVER 8" CLASS II AGGREGATE BASE (MINIMUM) WITHIN PARKING LOT AREA AS REPRESENTED BY SHADED AREA. 1/2" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE
- PAVING PATCH EDGE DETAIL 5/A4.2. (5) (N) 2-1/2" THICK ASPHALT PAVING OVER 6" CLASS II AGGREGATE BASE ASPHALT PAVING SIDEWALK AS REPRESENTED BY SHADED AREA. 3/8" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE SPECIFICATIONS. PROVIDE CONTINUOUS 2x8 REDWOOD HEADER ON ALL PAVING EDGES JOINING
- TURF LANDSCAPE. SEE PAVING SECTION DETAIL 6/A4.2. (6) (N) CONCRETE CURB AND GUTTER. SEE ENLARGED PLANS, SHEET A2.1 AND A2.2.
- (7) (N) CONCRETE CURB. SEE ENLARGED PLANS, SHEET A2.1 AND A2.2.
- (N) PARKING LOT STRIPING. SEE ENLARGED PLANS, SHEET A2.1 AND A2.2.
- (N) 12" WIDE CROSSWALK STRIPES.
- (N) ACCESSIBLE PARKING STALLS, SEE ENLARGED PLAN, SHEET A5.2.
- (N) CHAIN LINK FENCING AND GATE, SEE SHEET A5.2 FOR LAYOUT.
- (N) ELECTRICAL DISTRIBUTION PANEL SET ON CONCRETE PAD. SEE SHEET A5.2. (E) PORTABLE BUILDING AND ACCESS RAMP TO BE RAISED AND RELOCATED INTO (N) LOCATION AS SHOWN. REINSTALL AND PIN FOUNDATION AS PER ORIGINAL APPROVED PC PORTABLE BUILDING PLANS. SEE SHEET A2.1 FOR DETAILED DIMENSIONAL CONTROL OF (N) BUILDING LOCATION.
- 💢 REINSTALL (E) PREFABRICATED STEEL RAMP. VERIFY RAMP LAYOUT COMPLIANCE WITH PLAN LAYOUT AS SHOWN ON SHEET A5.1 AND ON DSA APPROVED PC DRAWINGS.
- RELOCATED (E) LIGHT POLE ON (N) CONCRETE BASE. SEE ELECTRICAL PLANS.
- (16) (E) CATCH BASIN AND GRATE TO REMAIN. RAISE GRATE OR INLET ELEVATION(S) AS SHOWN ON SHEETS A2.1 AND A2.2.
- (17) (E) FIRE HYDRANT TO REMAIN. PROTECT IN PLACE.
- (N) 4" STRIPING.
- (N) CATCH BASIN AND GRATE, SEE SHEET A4.1.
- (20) SAWCUT AND PATCH ASPHALT ALONG CURBLINE IF REQUIRED BY (E) CONDITIONS.
- (21) (N) ASPHALT CURB WITH PROFILE TO MATCH (E) CURB. PAINT CURB RED AND MARK CURB "NO PARKING - FIRE LANE" IN WHITE AT APPROXIMATE
- 30'-0"o.c. INCREMENTS ALONG LENGTH OF CURB.
- (N) LIGHT POLE AND FIXTURE ON A (N) CONCRETE BASE. TYPICAL OF 4. SEE ELECTRICAL.
- **X** = REFERENCE NOTES NOT APPLICABLE TO PAVING PROJECT







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GENERAL NOTES

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- REMOVAL ITEMS SHOWN THROUGHOUT THE CONSTRUCTION DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE WORK. 10. WHEN CUTTING OR PATCHING OF EXISTING CONDITIONS ARE NECESSARY TO FACILITATE NEW
- CONSTRUCTION, THE PATCH AND/OR REPAIR OF (E) SURFACES SHALL BE PERFORMED IN SUCH A MANNOR AS TO NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ASSEMBLY OR CONSTRUCTION TYPE. UPON COMPLETION OF CUTTING AND PATCHING WORK, ALL FINISHES SHALL BE CONSISTANT AND UNIFORM IN APPEARANCE. ALL (N) PAINT SHALL BE TO THE NEAREST BREAK POINT (90 DEG. CORNER).
- 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PROIR TO SUBMITTING OF A BID.
- 12. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- 13. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPAMCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
- 14. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIL SHALL BE RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 15. CONTRACTOR SHALL REPLACE ALL STUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
- 16. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS. CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
- 17. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONISIBILITY 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 NOTTO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL 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 OR THE CONSULTING ENGINEER.
- 18. REFER TO SHEET A4.1 FOR ALL WATER, SEWER, AND STORM DRAIN UTILITY IMPROVEMENTS.
- REFER TO SHEET A5.1 FOR ENLARGED PORTABLE BUILDING PLANS.
 REFER TO SHEET A7.1 FOR TYPICAL ACCESS DETAILS AND REFERENCE NOTES.

GRADING GENERAL NOTES

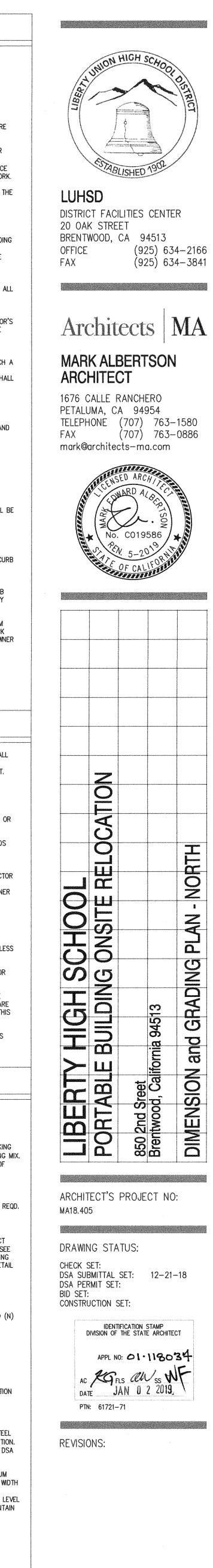
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES. UNDERGROUND FACILITIES DAMAGED DURING GRADING SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO CONTRACT. REFER TO TOPOGRAPHY SURVEY AND UTILITY SURVEY FOR ADDITIONAL INFORMATION.
 THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC
- RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL OTHER PUBLIC CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICALLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.
- 4. IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADUIS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE CORONER IMMEDIATELY.
- 5. CONTRACTOR VERIFY EXISTING UTILITY STUB LOCATIONS AND DEPTHS PRIOR TO COMMENCING CONSTRUCTION.
- 6. CUT AND FILL SLOPES AND GRADING TRANSITIONS AT THE OUTER EDGES OF THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED AT THREE HORIZONTAL TO ONE VERTICAL (3:1) UNLESS OTHERWISE NOTED.
- 7. FINISHED GRADES SHALL BE SLOPED TOWARDS INLETS OR POSITIVE RELEASE AT 0.5% MIN. FOR CONCRETE AND 1.0% MIN. FOR ASPHALT AREAS.
- 8. REFER TO ARCHITECTURAL SHEET A3.1 FOR ACCESSIBLE PATH OF TRAVEL. GRADES SHALL BE DONE PER FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS. IF CONTRACTOR BECOMES AWARE OF GRADES THAT ARE NOT CONFORMING TO ACCESSIBILTY REQUIREMENTS, HE SHALL BRING THIS TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER.
- WHERE MAXIMUM GRADES PERTAINING TO BUILDING ACCESSIBILITY ARE NOT REQUIRED, GRADES SHALL BE ESTABLISHED SO THAT PERIMETER BUILDING FINISHED GRADES SLOPE AWAY FROM FOUNDATIONS AT 2.0% MIN. FOR AT LEAST 10 FEET.

REFERENCE NOTES

- (E) ASPHALT DRIVEWAY PAVING TO REMAIN. PROTECT IN PLACE.
- 2 SAWCUT LINE. FIELD VERIFY EXTENT.
- (3) (N) 3" THICK ASPHALT PAVING OVER 8" CLASS II AGGREGATE BASE (MINIMUM) WITHIN PARKING LOT AREA AS REPRESENTED BY SHADED AREA ON SHEET A1.2. 1/2" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE PAVING PATCH EDGE DETAIL 5/A4.2. SEE SPECIFICATIONS, SHEET A6.1.
 (4) (E) RAPKING STRIPHIC AND CONCEPTS HELET. CLOSE TO THE ADVING MIX.
- (4) (E) PARKING STRIPING AND CONCRETE WHEEL STOPS TO REMAIN. SEE SHEET A1.1.
 (5) (E) ASPHALT WALKWAY AND ADJACENT CURB TO REMAIN. PROTECT IN PLACE. PATCH AS REQD. TO COMPLETE (N) CONSTRUCTION.
- (N) 2-1/2" THICK ASPHALT PAVING OVER 6" CLASS II AGGREGATE BASE ASPHALT PAVING SIDEWALK AS REPRESENTED BY SHADED AREA. 3/8" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE SPECIFICATIONS. PROVIDE CONTINUOUS 2x8 REDWOOD HEADER ON ALL PAVING EDGES JOINING TURF LANDSCAPE. EXTEND PAVING UNDER RAMPS AS INDICATED. SEE PAVING SECTION DETAIL
- 6/A4.2. SEE SPECIFICATIONS, SHEET A6.1. (N) CONCRETE CURB AND GUTTER INFILL BETWEEN (E) CONCRETE CURBS. PROVIDE FLUSH TRANSITION RETWEEN (E) AND (AL) CURPS
- TRANSITION BETWEEN (E) AND (N) CURBS.

 (8)
 (N) ASPHALT CURB TO MATCH (E) PROFILE. PROVIDE FLUSH TRANSITION BETWEEN (E) AND (N)

 CURBS
- (N) 4" WIDE PERIMETER STRIPING COLOR: WHITE.
- (N) 4" WDE 45deg. DIAGONAL STRIPING AT 36"o.c. COLOR: WHITE.
- (N) 12" WIDE CROSSWALK STRIPES. COLOR: WHITE.
- (E) PORTABLE BUILDING AND ACCESS RAMP TO BE RAISED AND RELOCATED INTO (N) LOCATION AS SHOWN. REINSTALL AND PIN FOUNDATION AS PER ORIGINAL APPROVED PC PORTABLE BUILDING PLANS. SEE SHEET A2.1 FOR DETAILED DIMENSIONAL CONTROL OF (N) BUILDING LOCATION.
- UPON COMPLETION OF PORTABLE BUILDING INSTALLATION, REINSTALL (E) PREFABRICATED STEEL RAMP OVER (N) ASPHALT PAVING OR OVER (N) CLASS II AGGREGATE BASE AT DISTRICT OPTION. VERIFY RAMP LAYOUT COMPLIANCE WITH PLAN LAYOUT AS SHOWN ON SHEET A5.1 AND ON DSA APPROVED PC DRAWINGS.
- (14) PROVIDE OR VERIFY LEVEL LANDING AT PRE-FABRICATED RAMP LANDING WITH A 2% MAXIMUM SLOPE IN ALL DIRECTIONS. LEVEL LANDING TO BE 6'-O" IN THE DIRECTION OF TRAVEL BY WIDTH OF RAMP AS REFERENCED BY DOTTED LINE. FIELD VERIFY UPON COMPLETION OF RAMP INSTALLATION. IF REQUIRED, PROVIDE A 3/8" MIX ASPHALT PAVING OVERLAY TO ESTABLISH LEVEL LANDING AS INDICATED. EXTEND OVERLAY BEYOND LEVEL LANDING AS NECESSARY TO MAINTAIN A MAX. SLOPE OF 5.0% IN THE DIRECTION OF TRAVEL.
- (E) PORTABLE BUILDING WALL-MOUNTED HVAC UNIT. PROTECT IN PLACE.
- RELOCATED (E) LIGHT POLE ONTO (N) CONCRETE BASE. SEE ELECTRICAL PLANS.
- (N) ELECTRICAL LIGHT POLE AND CONCRETE BASE. SEE ELECTRICAL PLANS.
- (E) ELECTRICAL PANEL ON CONCRETE PAD TO REMAIN. PROTECT IN PLACE. SEE ELECTRICAL PLANS.
- RESTORE LANDSCAPING AND IRRIGATION UPON COMPLETION OF (N) BUILDING PAD, BUILDING INSTALLATION, AND ASPHALT PAVING WORK.
- (20) SLOPE GRADE AWAY FROM BUILDING PERIMETER. SEE GRADING NOTES THIS SHEET.



SHEET NO.

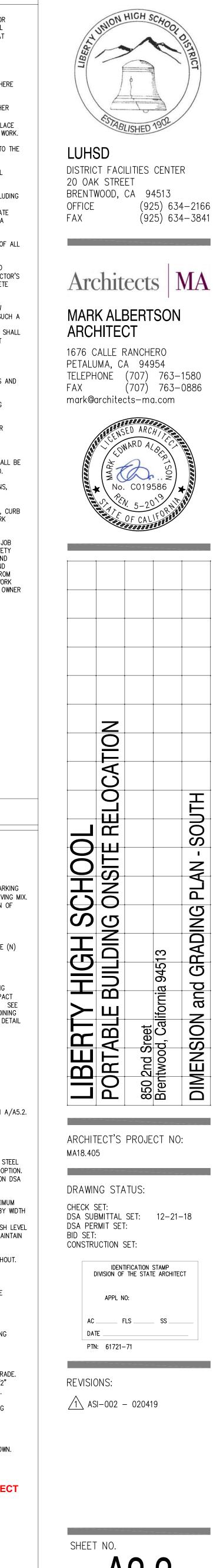


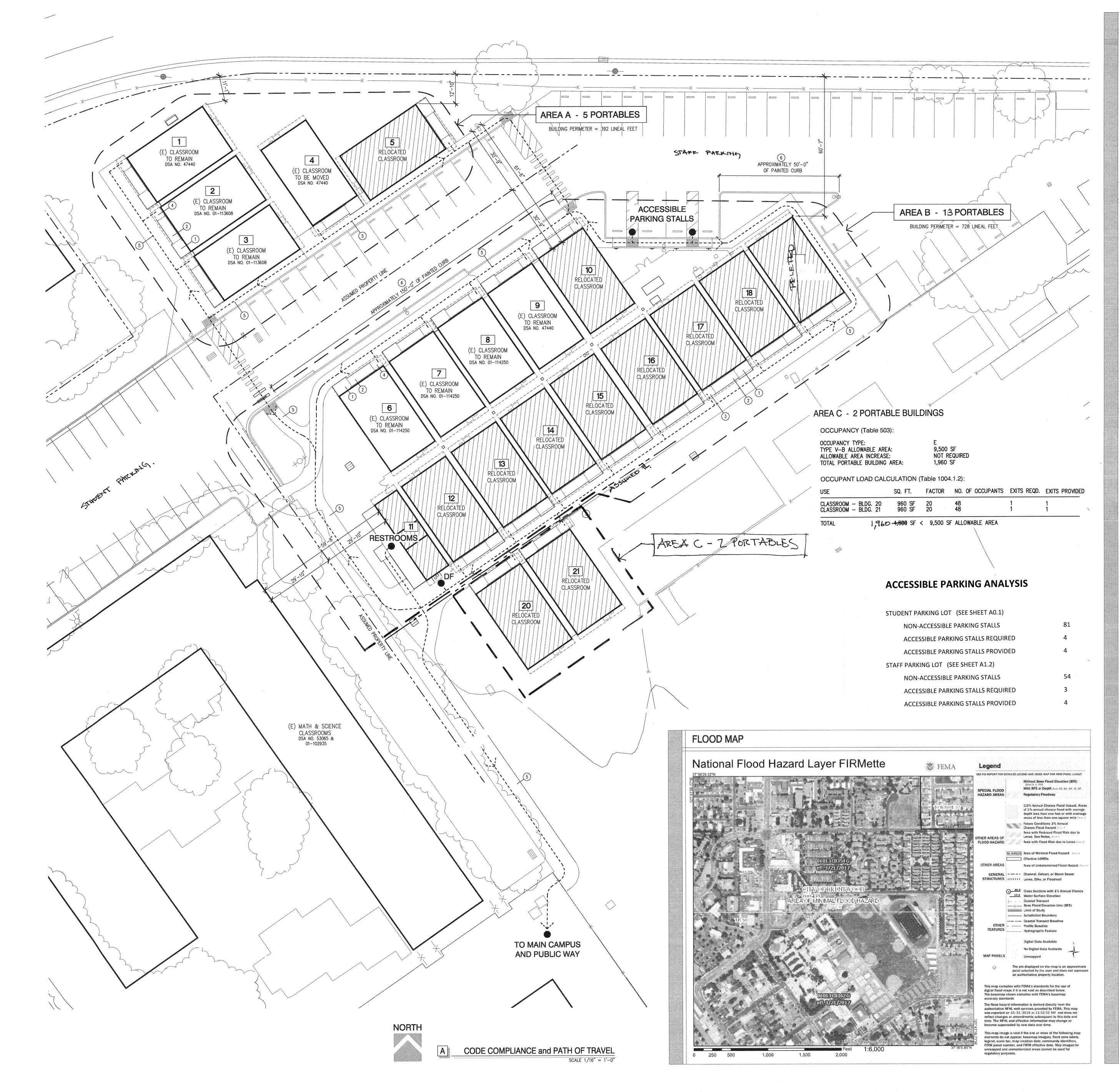
GENERAL NOTES

- REASONABLE ASSUMPTIONS HAVE BEEN MADE TO DEPICT (E) CONDITIONS AS THEY EXIST OR APPEAR AT THE PROJECT SITE. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT OR BUILDING OWNER ANY (E) CONDITION THAT VARIES FROM THESE DOCUMENTS.
- CONTRACTOR SHALL VERIFY ALL SITE DIMENSIONS AND EXISTING OFF-SITE CONSTRUCTION IMPROVEMENTS WITH MUNICIPAL RECORDS.
- CONTRACTOR SHALL FIELD SURVEY, IDENTIFY, AND PROTECT IN PLACE ALL (E) UTILITIES WHERE INDICATED TO REMAIN.
- THE CONTRACTOR SHALL PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY (UNDERGROUND SERVICE ALERT) WHO OWN, OPERATE, OR ARE AWARE OF ANY SUBSTRUCTURES AND REQUEST THEY FURNISH 'AS-BUILT' ENGINEERING INFORMATION OR PLACE PHYSICAL MARKINGS ON THEIR FACILITIES IN THE FIELD PRIOR TO STARTING ANY PROJECT WORK.
- ALL EXSTING SITE IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED IN THE FIELD TO THE GREATEST EXTENT POSSIBLE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY SPECIFIC UTILITY OR MUNICIPAL REQUIREMENTS AND SHALL INCORPORATE SUCH REQUIREMENTS INTO THE SCOPE OF WORK. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION RELATED SERVICES AND ACTIVITIES, INCLUDING TEMPORARY OFFICES AND MATERIAL/EQUIPMENT STORAGE FACILITIES TO THE DESIGNATED CONSTRUCTION STAGING AREA. COORDINATE WITH THE BUILDING OWNER AREAS APPROPRIATE
- FOR CONTRACTOR STAGING ACTIVITIES PRIOR TO START OF WORK. IF NECESSARY, ERECT A TEMPORARY FENCE OR BARACADE AROUND THE AGREED TO CONTRACTOR STAGING AREA. CONTRACTOR SHALL MAINTAIN ALL AREAS OUTSIDE THE BUILDING AREA FREE AND CLEAR OF ALL CONSTRUCTION MATERIALS AND DEBRIS.
- FULL EXTENT OF DEMOLITION AND REMOVAL REQUIRED SHALL INCLUDE ALL DEMOLITION AND REMOVAL ITEMS SHOWN THROUGHOUT THE CONSTRUCTION DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE WORK.
- 0. WHEN CUTTING OR PATCHING OF EXISTING CONDITIONS ARE NECESSARY TO FACILITATE NEW CONSTRUCTION, THE PATCH AND/OR REPAIR OF (E) SURFACES SHALL BE PERFORMED IN SUCH A MANNOR AS TO NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ASSEMBLY OR CONSTRUCTION TYPE. UPON COMPLETION OF CUTTING AND PATCHING WORK, ALL FINISHES SHALL BE CONSISTANT AND UNIFORM IN APPEARANCE. ALL (N) PAINT SHALL BE TO THE NEAREST BREAK POINT (90 DEG. CORNER).
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PROIR TO SUBMITTING OF A BID.
- 12. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS. 3. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPAMCIES
- GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER. 14. DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIL SHALL BE
- RESPONSIBLE OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 15. CONTRACTOR SHALL REPLACE ALL STUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC.., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS.
- 16. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS. CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONISIBILITY 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 NOTTO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL 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 OR THE CONSULTING ENGINEER.
- EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRCTION.
- 19. IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLAN NOTES, THE MORE
- STRINGENT REQUIREMENT SHALL GOVERN. 20. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT GEOTECHNICAL REPORT
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS AND COSTS
- ASSOCIATED WITH SAID PERMITS. 22. REFER TO SHEET A4.1 FOR ALL WATER, SEWER, AND STORM DRAIN UTILITY IMPROVEMENTS.
- 23. REFER TO SHEET A5.1 FOR ENLARGED PORTABLE BUILDING PLANS.
- 24. REFER TO SHEET A7.1 FOR TYPICAL ACCESS DETAILS AND REFERENCE NOTES.
- 25. SEE GENERAL GRADING NOTES, SHEET A2.1.

REFERENCE NOTES

- (1) (E) ASPHALT DRIVEWAY PAVING TO REMAIN. PROTECT IN PLACE.
- (2) SAWCUT LINE. FIELD VERIFY EXTENT.
- (3) (N) 3" THICK ASPHALT PAVING OVER 8" CLASS II AGGREGATE BASE (MINIMUM) WITHIN PARKING LOT AREA AS REPRESENTED BY SHADED AREA ON SHEET A1.2. 1/2" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%.. SEE PAVING PATCH EDGE DETAIL 5/A4.2. SEE SPECIFICATIONS, SHEET A6.1.
- (4) (E) CONCRETE CURB TO REMAIN. PAINT RED WHERE REQD. BY SHEET A1.2 AND A3.1.
- (5) (E) ASPHALT WALKWAY TO REMAIN. PROTECT IN PLACE. PATCH AS REQD. TO COMPLETE (N) CONSTRUCTION.
- (6) (E) PREFABRICATED STEEL RAMP AND RAILINGS TO REMAIN. TYPICAL OF (4). (7) (N) 2–1/2" THICK ASPHALT PAVING OVER 6" CLASS II AGGREGATE BASE ASPHALT PAVING SIDEWALK AS REPRESENTED BY SHADED AREA. 3/8" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE SPECIFICATIONS. PROVIDE CONTINUOUS 2x8 REDWOOD HEADER ON ALL PAVING EDGES JOINING TURF LANDSCAPE. EXTEND PAVING UNDER RAMPS AS INDICATED. SEE PAVING SECTION DETAIL 6/A4.2. SEE SPECIFICATIONS, SHEET A6.1.
- (8) (N) CONCRETE CURB.
- (9) (N) CONCRETE CURB RAMP AND SIDEWALK. SEE DETAIL 1/A5.2.
- (10) (N) CONCRETE CURB RAMP. SEE DETAIL 8/A4.2.
- (N) 4" WIDE PERIMETER STRIPING COLOR: BLUE. SEE ENLARGED PLAN A/A5.2.
- (N) 4" WIDE 45deg. DIAGONAL STRIPING AT 36"o.c. COLOR: WHITE. SEE ENLARGED PLAN A/A5.2.
- (N) 12" WIDE CROSSWALK STRIPES. COLOR: WHITE. (N) PRECAST WHEEL STOP. TYPICAL OF 8 REQD.
- UPON COMPLETION OF PORTABLE BUILDING INSTALLATION, REINSTALL (E) PREFABRICATED STEEL RAMP OVER (N) ASPHALT PAVING OR OVER (N) CLASS II AGGREGATE BASE AT DISTRICT OPTION. VERIFY RAMP LAYOUT COMPLIANCE WITH PLAN LAYOUT AS SHOWN ON SHEET A5.1 AND ON DSA APPROVED PC DRAWINGS.
- (16) PROVIDE OR VERIFY LEVEL LANDING AT PRE-FABRICATED RAMP LANDING WITH A 2% MAXIMUM SLOPE IN ALL DIRECTIONS. LEVEL LANDING TO BE 6'-0" IN THE DIRECTION OF TRAVEL BY WIDTH OF RAMP AS REFERENCED BY DOTTED LINE. FIELD VERIFY UPON COMPLETION OF RAMP INSTALLATION, IF REQUIRED. PROVIDE A 3/8" MIX ASPHALT PAVING OVERLAY TO ESTABLISH LEVEL LANDING AS INDICATED. EXTEND OVERLAY BEYOND LEVEL LANDING AS NECESSARY TO MAINTAIN A MAX. SLOPE OF 5.0% IN THE DIRECTION OF TRAVEL.
- (17) (E) PORTABLE BUILDING WALL-MOUNTED HVAC UNIT. PROTECT IN PLACE. TYP. THROUGHOUT.
- (N) ELECTRICAL LIGHT POLE AND CONCRETE BASE. SEE ELECTRICAL PLANS.
- (N) ELECTRICAL PANEL ON (N) CONCRETE HOUSEKEEPING PAD. PROTECT IN PLACE. SEE ELECTRICAL PLANS. (N) ELECTRICAL PULL BOX.
- RESTORE LANDSCAPING AND IRRIGATION UPON COMPLETION OF (N) BUILDING PAD, BUILDING INSTALLATION, AND ASPHALT PAVING WORK.
- (22) SLOPE GRADE AWAY FROM BUILDING PERIMETER. SEE GRADING NOTES, SHEET A2.1.
- (N) DURATEMP PLYWOOD ENCLOSURE BETWEEN PORTABLES. HOLD 4" ABOVE FINISHED GRADE. EXTEND TO UNDERSIDE OF BUILDING OVERHANG. FASTEN TO 2x WOOD CLEATS WITH 1-1/2" STAINLESS STEEL TEK SCREWS AT 16"o.c. PROVIDE PAINT FINISH. TYPICAL OF 15 REQD.
- INSTALL (N) 7'-0" HIGH CHAIN LINK FENCING. SEE DETAIL 2/A4.2 FOR SPECIFIC FENCING REQUIREMENTS.
- INSTALL (N) 6'-0" WIDE DOUBLE-LEAF CHAIN LINK GATE. SEE DETAIL 1/A4.2.
- (26) (E) CATCH BASIN AND GRATE TO REMAIN. RAISE GRATE OR INLET ELEVATION(S) AS SHOWN. (N) 12x12 AND 24x24 CATCH BASINS AND GRATES, SEE SHEET A4.1.
- **X** = REFERENCE NOTES NOT APPLICABLE TO PAVING PROJECT







REFERENCE NOTES

	└── WITH	+ CROSS SLO	OPE IN EACH DIRE	CTION NOT-TO-EXC	EED 1.9% (2.0% MAX	NG EXTERIOR DOORS .). SEE SHEET A5.1
ł	2 PRE ON	FABRICATED SHEET A5.1	STEEL PORTABLE AND ON DSA APP	TYPICAL OF ALL 21 BUILDING RAMP WITI PROVED PC DRAWING PORTABLE BUILDINGS	h non-slip finish. S for each dsa pi	SEE RAMP LAYOUT
(POR	TABLE BUILD				E BASE OF EACH O—EXCEED 1.9% (2.0%
(4 FIEL ASP TRA	D VERIFY LE HALT OVERL NSITION AS	VEL LANDINGS AT AY ONTO THE (E)	ALL (E) PORTABLE ASPHALT SURFACE IOTE 4 AND TO MEE	TO PROVIDE A LEVE	ESSARY, PROVIDE AN L LANDING AND GRADE S OF SHEET A5.1.
(5 ALL OF AND	(E) AND (N TRAVEL AND A2.2. IN /) ASPHALT SIDEW A 2.0% MAXIMUM ADDITION, ABRUPT		E GRADING REQUIRED ALONG ANY ACCESS	SIBLE ROUTE SHALL
(NOT	-TO-EXCEED) 1:2, EXCEPT TH	AT LEVEL CHANGES B "NO PARKING — F	NOT EXCEEDING 1/4	" MAY BE VERTICAL.
F	PATH C	OF TRA	VEL NOTE	ES and REC	UIREMENT	S
	TRACE COLOR VERICE ACTION	POINTS	ALONG TO PUBLIC	S PATH OF TRAVEL C WAY AND FROM A QUIREMENTS BELOW.		
(DOTS R LOCATIO	EPRESENT POINTS	OF ACCESS TO PUE IBLE RESTROOM FAC	BLIC WAY, ACCESSIBI ILITIES AROUND AND	LE PARKING WITHIN PORTABLE
1.	CHANG	T CHANGES ES DO OCCU	IN LEVEL ALONG /	ANY ACCESSIBLE ROU E BEVELED WITH A S	SLOPE NOT-TO-EXC	EED 1/2". WHEN EED 1:2, EXCEPT
2.	. (N) CO HEAVY	NCRETE FINI BROOM FINI	SHES WITH A CON	IG 1/4" MAY BE VEF CRETE SURFACE GRI TE FINISHES WITH A	EATER THAN 6% SLO	
ID C/ AI OF CC SC IN OF CC DI DI	ENTIFIED IN ALIFORNIA B LTERATIONS, HE PATH OF F TRAVEL TI ORRECTIVE N COPE OF TH TO THESE OF THE PATH HRESHOLD L ONSTRUCTIO URING CONS	THESE CON DUILDING COD ADDITIONS, TRAVEL WA HAT WERE D WORK NECES IIS PROJECT' CONSTRUCTION OF TRAVEL IMITATIONS (N DOCUMENT TRUCTION, IF	STRUCTION DOCUM DE ACCESSIBILITY I AND STRUCTURAL S EXAMINED AND ETERMINED TO BE SARY TO BRING T S WORK THROUGH ON DOCUMENTS. A THAT WILL NOT E OR A FINDING OF TS. F PATH OF TRAVEL	ISIBLE CHARGE STAT IENTS IS COMPLIANT PROVISIONS FOR PAT REPAIRS. AS PAR ANY ELEMENTS, CON NONCOMPLIANT 1) I HEM INTO COMPLIAN DETAILS, DRAWINGS ANY NONCOMPLIANT BE CORRECTED BY T UNREASONABLE HAR L ITEMS WITHIN THE DNCONFORMING BEYC	WITH THE CURRENT TH OF TRAVEL REQU T OF THE DESIGN OF WPONENTS OR PORTI HAVE BEEN IDENTIFIE CE HAS BEEN INCLU S AND SPECIFICATION ELEMENTS, COMPONE HIS PROJECT BASED DSHIP ARE SO INDIC SCOPE OF THE PRO	APPLICABLE IREMENTS FOR F THIS PROJECT, ONS OF THE PATH D AND 2) THE DED WITHIN THE IS INCORPORATED ENTS OR PORTIONS ON VALUATION CATED IN THESE
T(Pl	DLERANCES, ROJECT BY	THEY SHALI MEANS OF A	L BE BROUGHT INT A CONSTRUCTION (FO COMPLIANCE WITH CHANGE DOCUMENT.		
					,	
*	OCCUPA	NCY (Table		_		
	ALLOWABLE	ALLOWABLE AREA INCR		E 9,500 SF NOT REQUIRED 4,800 SF		
	OCCUPA USE	NT LOAD (CALCULATION (SQ. FT.	Table 1004.1.2):	OCCUPANTS EXIT	EXITS PROVIDED
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	CLASSROOM CLASSROOM TOTAL	M — BLDG. 4 M — BLDG. 5	5 960 SF	20 48 20 48 < 9,500 SF ALLOW	1 1 ABLE AREA	1
		- 13 PC	DRTABLE B e 503):	UILDINGS		
T A	LLOWABLE	ALLOWABLE AREA INCE		E 9,500 SF REQUIRED 12,000 SF		
E			CREASE CALC square feet	CULATIONS (Sec	ction 506):	
	If FRONT/	= .276 Age incre <i>i</i>	ASE CALCULATIO			
	lf			728 lineal feet 250 = .750 .	750 x 1 = .750	
	72 W	28 lineal fe = 30	et / 728 lineal 30/30 = 1	feet = 1.00 a	t 30 feet wide or	more
	Ac Ac	a = (9,500) a = (9,500)	CALCULATIONS: $sf + (9,500sf \times 0.5f + 7,125sf) =$.750)) = 16,625 square :	feet	
00				> 12,000 square		
	SROOM -		SQ. FT. 960 SF	20 48	DF OCCUPANTS E	EXITS REQD. EXITS PR
CLAS	SSROOM - SSROOM - SSROOM - SSROOM -	BLDG. 8 BLDG. 9	960 SF 960 SF 960 SF 960 SF	20 48 20 48 20 48 20 48 20 48	1	1
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ninat internet with the set	********	ABLES	S LEGEN		JWABLE AKEA WIT	ALLOWABLE INCREASE
10.	MFR.	SIZE	USE	SERIAL NO.	DSA PC NO.	STATUS
1	MT	24x40	CLASSROOM	048662ab	47020	(E) AT LHS T WING
2	MT	24x40	CLASSROOM	02-89-DH-04ab	51304	(E) AT LHS T WING
3	MT MT	24x40 24x40	CLASSROOM	02-89-DH-05ab 048650ab	51304 47020	(E) AT LHS T WING (E) AT LHS T WING
5	MT	24x40	CLASSROOM	13357–58	56013	(E) AT LHS J4
6 7	MT	24x40 24x40	CLASSROOM	01-470-940ab 01-470-943ab	02-102043	(E) AT LHS T WING (E) AT LHS T WING
7 8	MT	24x40 24x40	CLASSROOM	01-470-943ab	02-102043	(E) AT LHS T WING
9	MT	24x40	CLASSROOM	048653ab	47020	(E) AT LHS T WING
10 11	MT MT	24x40 12x40	CLASSROOM	13369-70	56013 60120	(E) AT LHS J5 (E) AT LHS J WING
12	MT	24x40	CLASSROOM	13367–68	56013	(E) AT LHS - J8
13	MT	24x40	CLASSROOM	13359-60	56013	(E) AT LHS – J9
14	MT	24x40	CLASSROOM	13355-56	56013	(E) AT LHS - J11

24x40 CLASSROOM

24x40 CLASSROOM

24x40 CLASSROOM

24x40 CLASSROOM

18 MT 24x40 CLASSROOM

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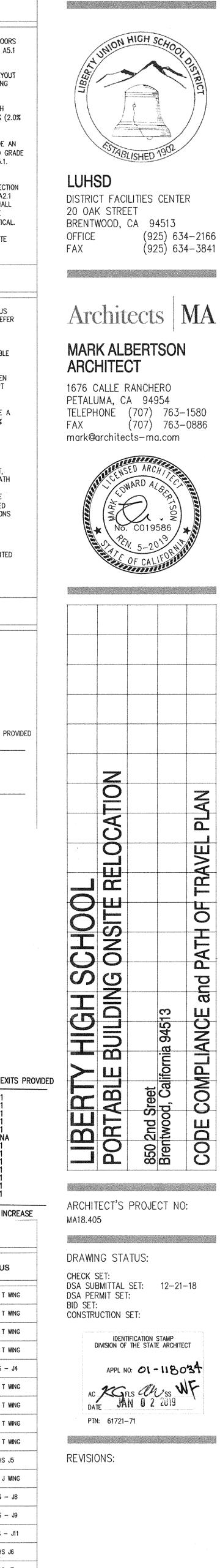
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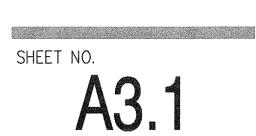
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(E) AT LHS J15



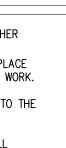


----t wing t wing denga salara sasing dan sanasin WING WING t wing S J5 andus dan sing S. Nam A. and S J WNG - J8 (E) AT LHS - J11 (E) AT LHS J6 (E) AT LHS J7 (E) AT LHS J10 (E) AT LHS J12 (E) AT LHS J14



GE	NERAL NOTES
1.	THE CONTRACTOR SHALL PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY (UNDERGROUND SERVICE ALERT) WHO OWN, OPERATE, OR ARE AWARE OF ANY
	SUBSTRUCTURES AND REQUEST THEY FURNISH 'AS-BUILT' ENGINEERING INFORMATION OR PLACE PHYSICAL MARKINGS ON THEIR FACILITIES IN THE FIELD PRIOR TO STARTING ANY PROJECT WORK.
2.	ALL EXSTING SITE IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED IN THE FIELD TO THE GREATEST EXTENT POSSIBLE UNLESS NOTED OTHERWISE.
3.	THE CONTRACTOR SHALL VERIFY SPECIFIC UTILITY OR MUNICIPAL REQUIREMENTS AND SHALL INCORPORATE SUCH REQUIREMENTS INTO THE SCOPE OF WORK.
4. 5.	ALL BIULDING POINTS OF CONNECTION SHALL BE FIELD VERIFIED. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE STARTING OF GRADING. NOTIFY THE ENGINEER IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO
6.	AVOID DELAY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND
0.	SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227–2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPY ON–SITE FOR REFERENCE FOR DURATION OF CONTRACT.
	PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
8. 9.	ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT, UNLESS NOTED OTHERWISE. COORDINATE ALL EXISTING AND PROPOSED DRAINAGE SLEEVES, AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
SAI	NITARY SEWER GENERAL NOTES
1.	INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SERVICE IN
2.	NON-PAVED AREAS, AND AT THE BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION- SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL. PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH GLUED JOINTS.
WA	TER GENERAL NOTES
	WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
3.	WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/ OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN. USE DECTECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
4.	ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY/TOWN OR APPLICABLE WATER DISTRICT STANDARDS.
5.	ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS.
6.	ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
STO	ORM DRAIN GENERAL NOTES
	ALL STORM DRAIN PIPE SHALL BE PVC, SLOPED AT 2% UNLESS OTHERWISE SPECIFIED ON THE PLANS. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A Y-CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
2.	USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION- STORM DRAIN LINE BELOW",
3.	CALPICO TYPE 2 OR EQUAL. PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK
	OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND. A "NO DUMPING"
	ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS AND HAVE BOLT DOWN GRATES.
	ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS WITH APPROPRIATE TEST BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES. FOR GRAVITY FLOW SYSTEMS, CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE,
7.	ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
REI	FERENCE NOTES
\bigotimes	(N) 2" WATER SERVICE LINE FROM (E) CONNECTION POINT. TRENCH (N) LINE AS PER TRENCH DETAIL $7/A4.2$.
X	FIELD VERIFY WATER POINT-OF-CONNECTION TO (E) CAMPUS POTABLE WATER SUPPLY.
\mathbf{X}	2" WATER SHUT-OFF GATE VALVE MOUNTED IN PRECAST CHRISTY BOX AND TRAFFIC RATED LID. (N) 1" BRANCH WATER SERVICE LINE. TRENCH (N) LINE AS PER TRENCH DETAIL 7/A4.2.
X	TYPICAL OF 3 BUILDING LOCATIONS. 1" WATER SHUT—OFF GATE VALVE MOUNTED ABOVE GRADE AND PRIOR TO WATER SERVICE ENTERING BUILDING. TYPICAL OF 3 BUILDING LOCATIONS.
\bigotimes	(N) $1-1/2$ " BRANCH WATER SERVICE LINE. TRENCH (N) LINE AS PER TRENCH DETAIL 7/A4.2.
X	1-1/2" WATER SHUT-OFF GATE VALVE MOUNTED ABOVE GRADE AND PRIOR TO WATER SERVICE ENTERING BUILDING.
\mathbf{X}	WATER POINT-OF-CONNECTION AT BUILDING. FIELD VERIFY LOCATION. (N) UNDERGROUND ELECTRICAL POWER, FIRE ALARM, AND DATA SERVICE CONDUITS IN (E)
~	ÈLÉCTRICAL CONDUITS. SEE ELECTRIAL PLANS. WHERE REQUIRED, TRENCH (N) LINES ÀS PER TRENCH DETAIL 7/E7.1. PATCH ALL (E) ASPHALT PAVING. PROVIDE ASPHALT EDGE FINISH AS PER DETAIL 5/A4.2.
×	2" SEWER LINE OUTLET FROM BUILDING. FIELD VERIFY SIZE AND LOCATION. TYPICAL OF 3 BUILDING LOCATIONS.
× ×	TRANSITION (N) SEWER LINE FROM 2" ABOVE GROUND TO 4" UNDERGROUND AT BUILDING FACE. PROVIDE CLEANOUT AS PER DETAIL 4/A4.2. TYPICAL OF 3 BUILDING LOCATIONS. (N) ABOVE GROUND 4" SEWER LINE AS SHOWN RUNNING PARALLEL WITH AND ATTACHED TO (N)
X	(N) ABOVE GROUND 4 SEWER LINE AS SHOWN RUNNING PARALLEL WITH AND ATTACHED TO (N) PORTABLE BUILDING WALL. SLOPE AT 1% MINIMUM. SEWER POINT-OF-CONNECTION AT BUILDING. FIELD VERIFY LOCATION.
\propto	PROVIDE CLEANOUT AS PER DETAIL 4/A4.2. SIZE TO LINE.
X	(N) UNDERGROUND 4" GRAVITY SEWER LINE. SLOPE TO POINT-OF-CONNECTION AT 1% MINIMUM. TRENCH (N) LINE AS PER TRENCH DETAIL 7/A4.2. PATCH ALL (E) ASPHALT. PROVIDE ASPHALT EDGE FINISH AS PER DETAIL 5/A4.2.
\mathbf{X}	(N) 4" BELOW GRADE SEWER CLEANOUT. SEE DETAIL 3/A4.2. SEWER POINT-OF-CONNECTION AT (E) SEWER LINE. FIELD VERIFY FLOW LINE DEPTH.
	(E) 8" STORM DRAIN LINE TO REMAIN.
(19) (20)	 (E) CATCH BASIN AND TRAFFIC RATED GRATE TO REMAIN. (E) CATCH BASIN AND TRAFFIC RATED GRATE TO REMAIN. RAISE GRATE ELEVATION TO FINISHED
(21)	SURFACE OF ASPHALT PAVING. OPENINGS IN CATCH BASIN GRATE SHALL NOT EXCEED 1/2" IN WIDTH. FIELD VERIFY (E) GRATE OPENING WIDTH AND TRAFFIC RATING. REPLACE GRATE IF NECESSARY TO MEET OPENING WIDTH REQUIREMENTS. (E) 24" STORM DRAIN LINE TO REMAIN.
X	(N) 24" SQUARE PRECAST CONCRETE AREA DRAIN AND NON-TRAFFIC RATED STEEL GRATE. CONNECT TO STORM DRAIN LINE.
\bigotimes	(N) 8" PVC STORM DRAIN LINE.
××	(N) 12" SQUARE PRECAST CONCRETE AREA DRAIN AND NON-TRAFFIC RATED STEEL GRATE. CONNECT TO STORM DRAIN LINE. TYPICAL OF 5 LOCATIONS.
\bigotimes	(N) 6" PVC STORM DRAIN LINE. PORTABLE BUILDING ROOF DOWNSPOUT. FIELD VERIFY LOCATION.
X	CONNECT ABOVE-GRADE 4" PVC FLEXIBLE DOWNSPOUT LEADER FROM DOWNSPOUT END TO AREA DRAIN INLET. TYPICAL OF 17 DOWNSPOUT LOCATIONS. NOTE: NOT ALL LINES SHOWN FOR DRAWING CLARITY.
(28)	PATCH ALL (E) ASPHALT PAVING UPON COMPLETION OF UNDERGROUND UTILITY LINE WORK. PROVIDE ASPHALT EDGE FINISH AS PER DETAIL 5/A4.2.
X X	REPAIR ALL TURF LANDSCAPING UPON COMPLETION OF UNDERGROUND UTILITY LINE WORK. (N) ELECTRICAL LIGHT POLE AND CONCRETE BASE. SEE ELECTRICAL PLANS.

X = REFERENCE NOTES NOT APPLICABLE TO PAVING PROJECT





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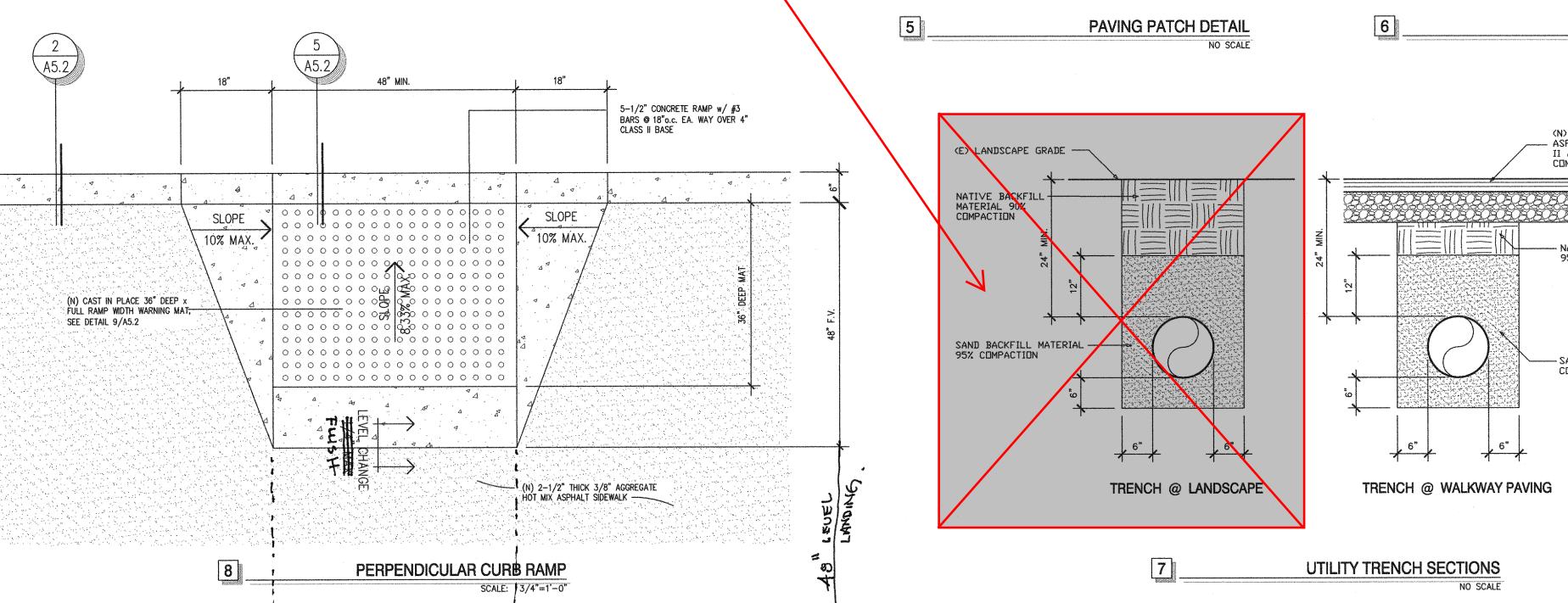
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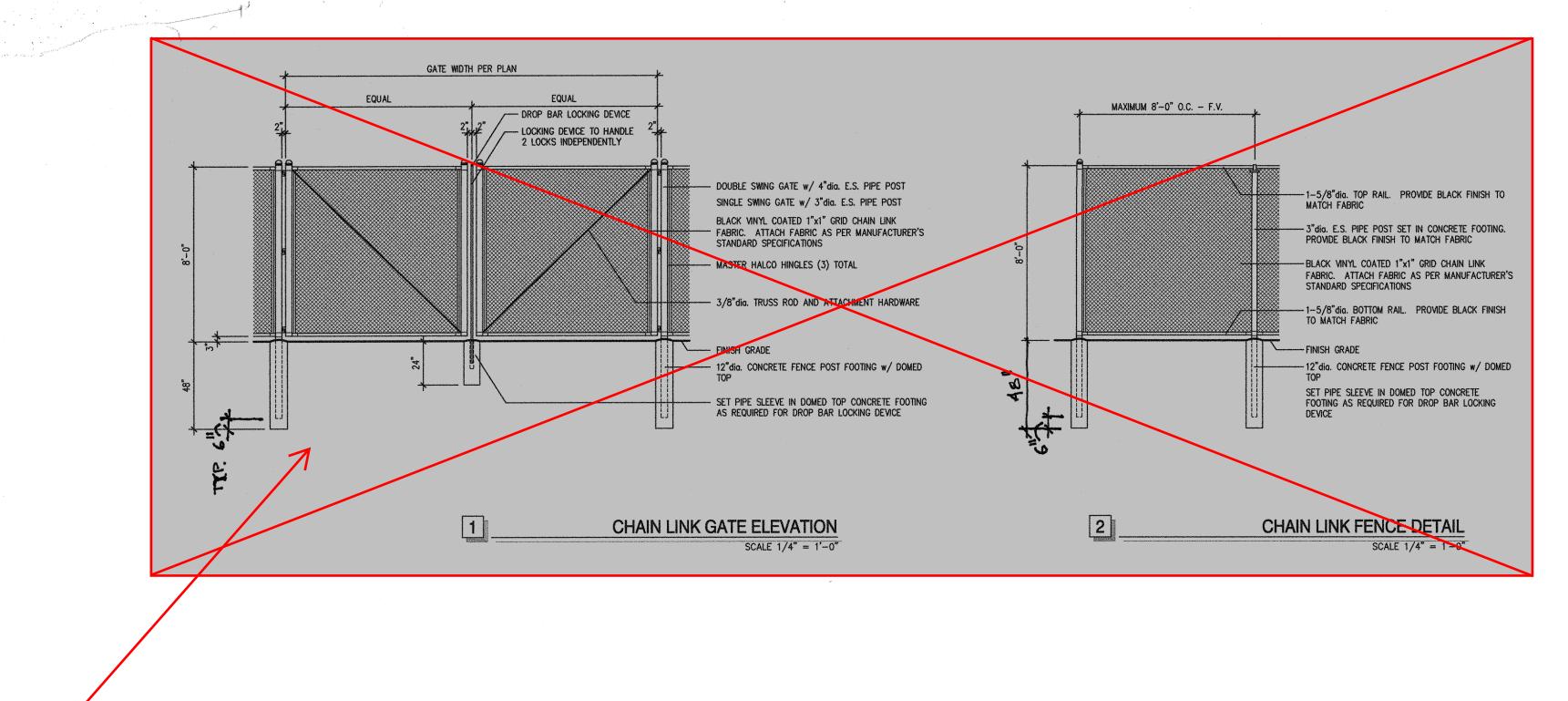
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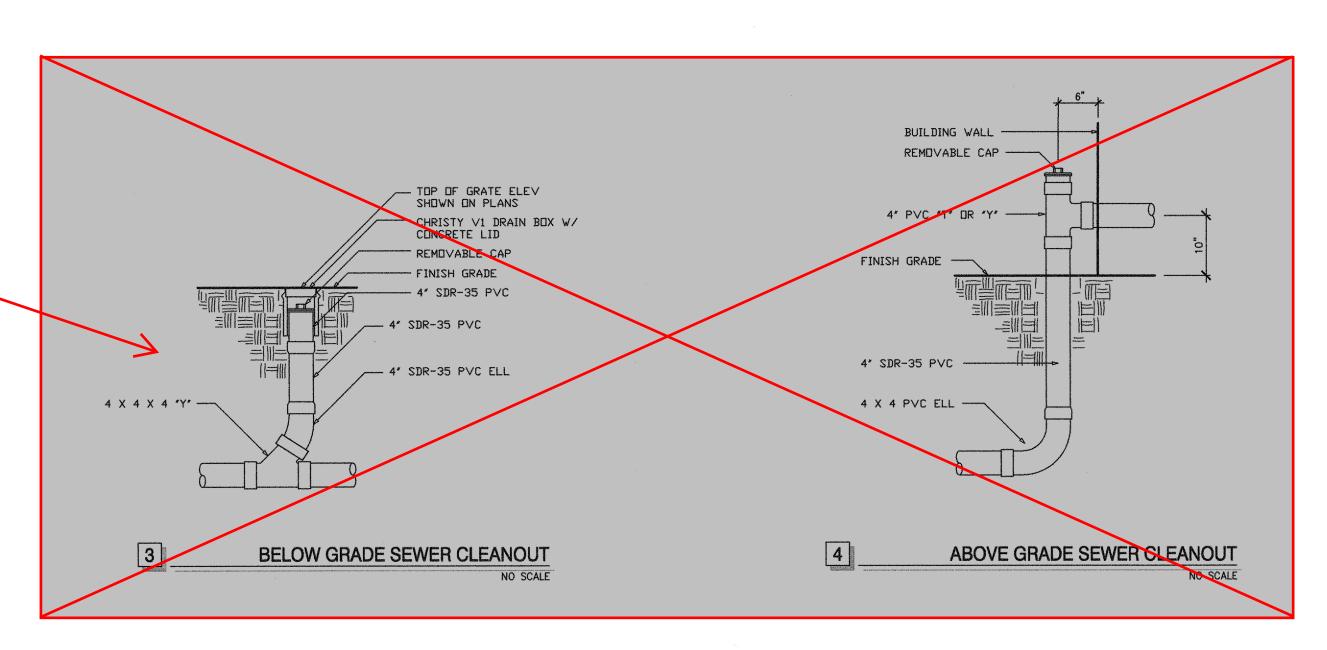


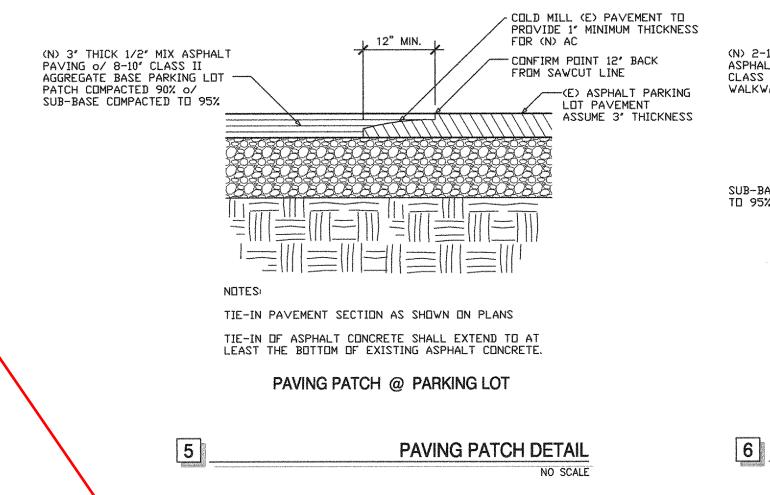
DETAILS NOT APPLICABLE TO THE PAVING PROJECT.











- 2×8 REDWOOD HEADER CONTINUOUS (N) 2-1/2" THICK 3/8" MIX ASPHALT PAVING o/ 6" - 2x2x12 STAKES AT 48"o.c. MAX. CLASS II AGGREGATE BASE -WALKWAY COMPACTED 90% (E) LANDSCAPE GRADE SUB-BASE COMPACTED PAVING EDGE @ WALKWAY

> **PAVING SECTION** NO SCALE

(N) 2-1/2' THICK 3/8' MIX - ASPHALT PAVING 0/ 6' CLASS II AGGREGATE BASE WALKWAY COMPACTED 90%

− NATIVE BACKFILL MATERIAL 95% COMPACTION UNDER PA∨ING

— SAND BACKFILL MATERIAL 95% COMPACTION

<u>______</u>

TRENCH @ WALKWAY PAVING

GENERAL NOTES

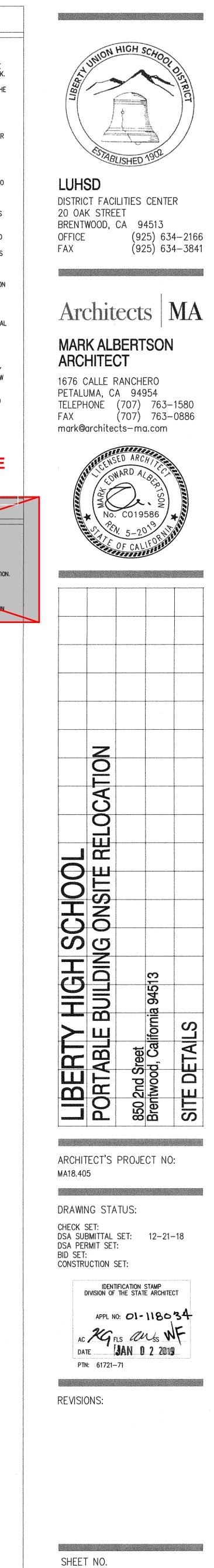
THE CONTRACTOR SHALL PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY (UNDERGROUND SERVICE ALERT) WHO OWN, OPERATE, OR ARE AWARE OF ANY SUBSTRUCTURES AND REQUEST THEY FURNISH 'AS-BUILT' ENGINEERING INFORMATION OR PLACE PHYSICAL MARKINGS ON THEIR FACILITIES IN THE FIELD PRIOR TO STARTING ANY PROJECT WORK.

- 2. ALL EXSTING SITE IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED IN THE FIELD TO THE GREATEST EXTENT POSSIBLE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY SPECIFIC UTILITY OR MUNICIPAL REQUIREMENTS AND SHALL INCORPORATE SUCH REQUIREMENTS INTO THE SCOPE OF WORK.
- 4. CONTRACTOR SHALL VERIFY BUILDING CONNECTIONS AND ELEVATION. THIS INCLUDES RAIN WATER LEADER, SEWER CONNECTION AND WATER CONNECTION. NOTIFY ENGINEER OF ANY CONFLICTS.
- 5. ALL BIULDING POINTS OF CONNECTION SHALL BE FIELD VERIFIED. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE STARTING OF GRADING. NOTIFY THE ENGINEER IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO avoid delay.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPY ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT, UNLESS NOTED OTHERWISE. 10. COORDINATE ALL EXISTING AND PROPOSED DRAINAGE SLEEVES, AND UTILITY LOCATIONS AS
- SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS. 11. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
- 12. CONTRACTOR IS TO ENSURE THAT ALL AREAS ARE GRADED TO PROVIDE POSITIVE DRAINAGE TO IDENTIFY EXISTING AND PROPOSED DRAIN INLETS.

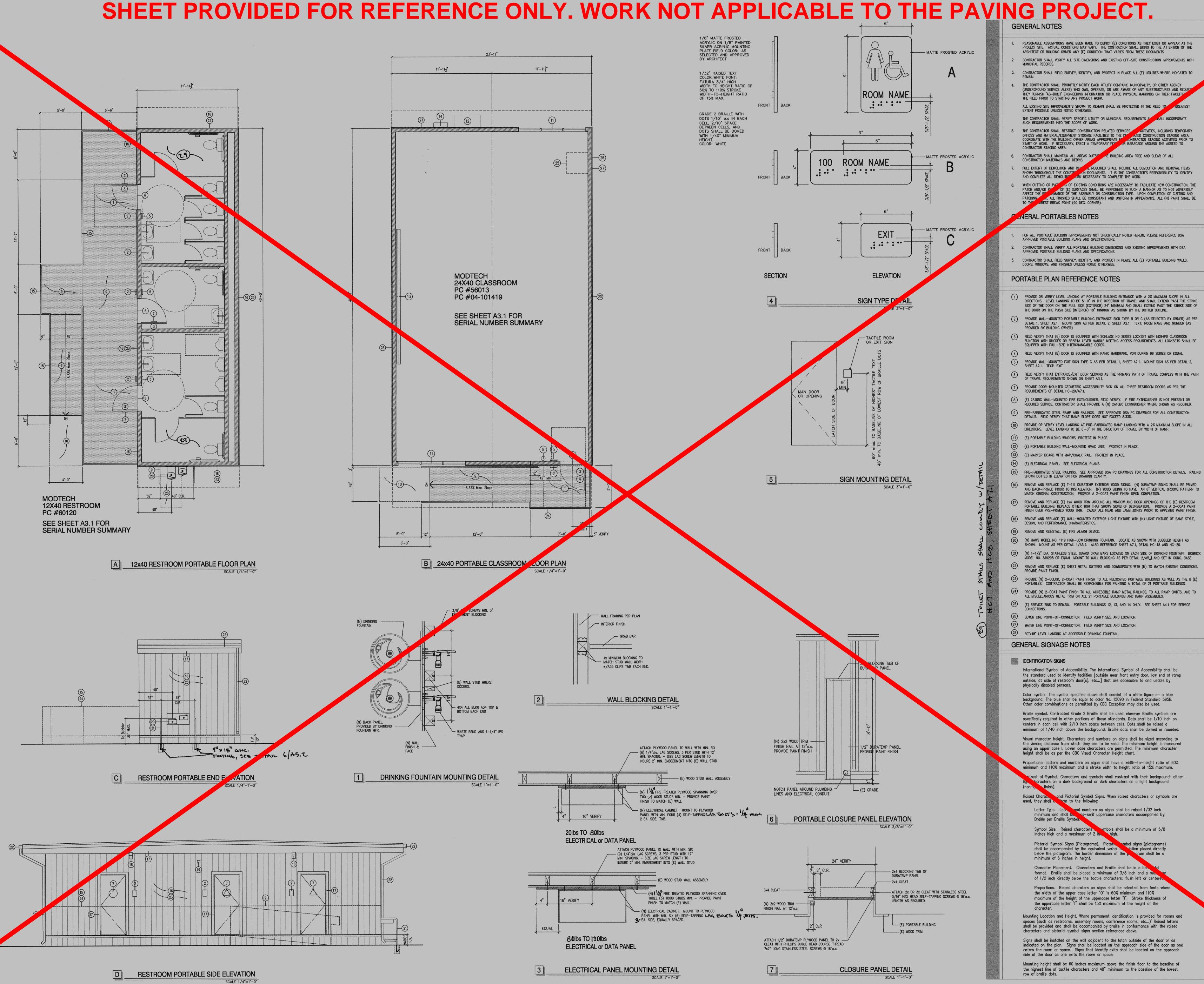
FENCING NOT INCLUDED IN THE SCOPE OF THE PAVING PROJECT.

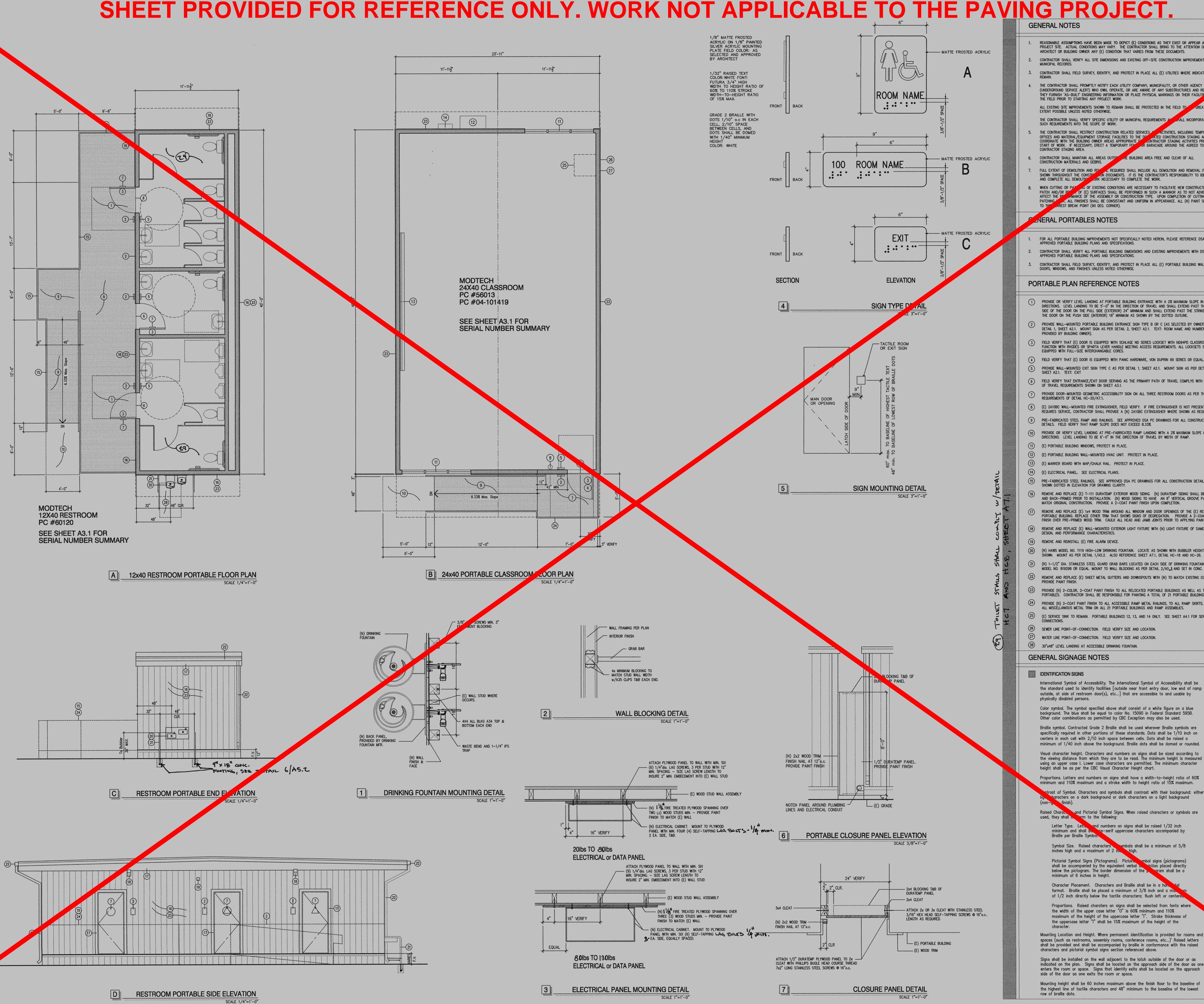
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	GE	NERAL FENCING NOTES
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	1.	PROVIDE LOCKING DEVICE TO SECURE GATE IN THE OPEN OR CLOSED POSITION.
	2.	VERTICAL FENCE PICKETS SHALL BE SPACED SO THAT A 4 SPHERE CANNOT PASS THRU ANY OPEN FENC AREA.
	3.	CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY DISTRICT REPRESENTATIVE PRIOR TO FABRIC SHOW ALL GATE COMPONENTS INCLUDING FRAME, POSTS, AND HARDWARE.
	4.	INSTALL ALL GATE HARDWARE AS PER MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
	.	PROVIDE A LEVEL LANDING ON BOTH SIDES OF MAN GATES WITH SLOPE AND CROSS SLOPES LEES THAN 2 ANY DIRECTION. LEVEL LANDINGS SHALL COMPLY WITH DETAILS HC-17 AND HC-18 ON SHEET A7.1.
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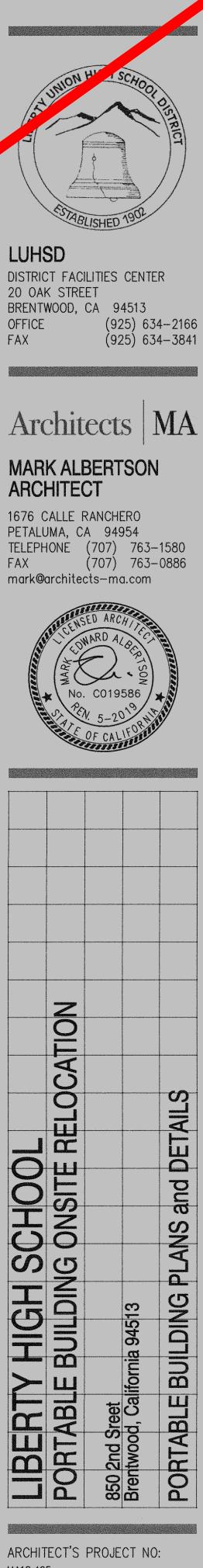
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A4.2







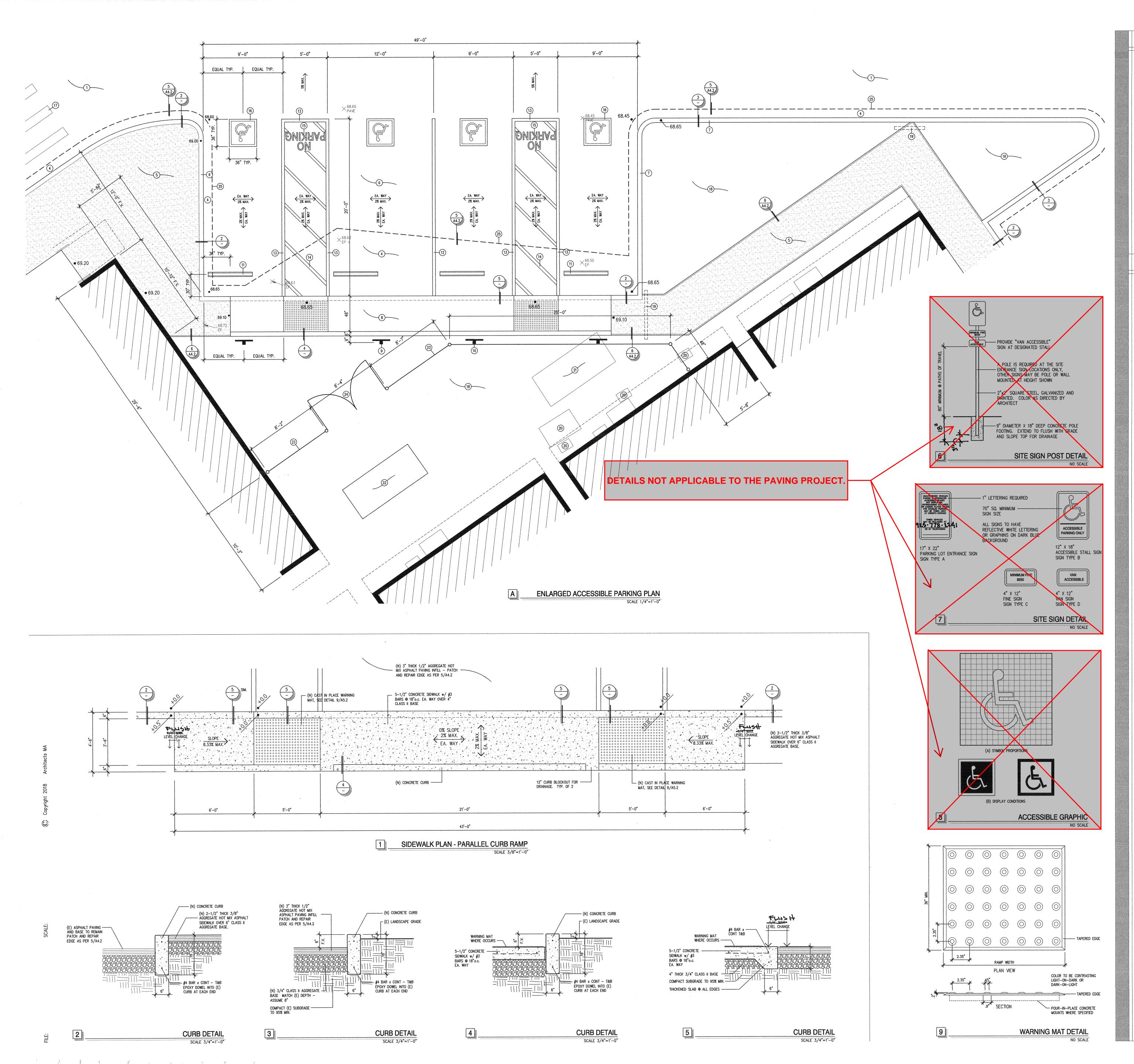
ARCHITECT'S PROJECT NO: MA18.405

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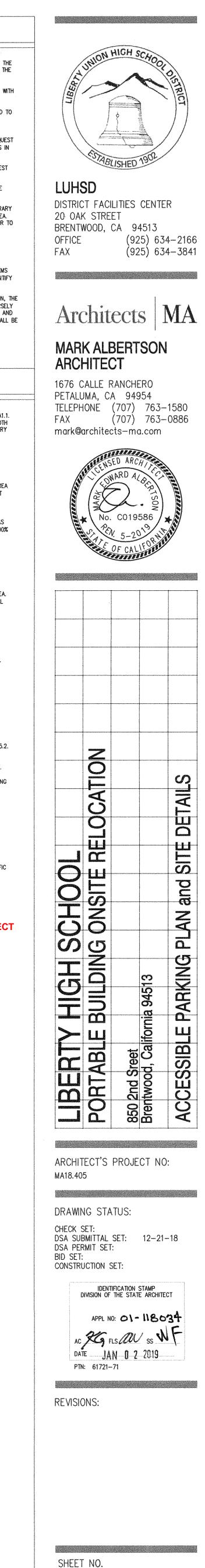


GENERAL NOTES

- REASONABLE ASSUMPTIONS HAVE BEEN MADE TO DEPICT (E) CONDITIONS AS THEY EXIST OR APPEAR AT THE PROJECT SITE. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT OR BUILDING OWNER ANY (E) CONDITION THAT VARIES FROM THESE DOCUMENTS.
- CONTRACTOR SHALL VERIFY ALL SITE DIMENSIONS AND EXISTING OFF-SITE CONSTRUCTION IMPROVEMENTS WITH MUNICIPAL RECORDS. CONTRACTOR SHALL FIELD SURVEY, IDENTIFY, AND PROTECT IN PLACE ALL (E) UTILITIES WHERE INDICATED TO
- REMAIN. THE CONTRACTOR SHALL PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY (UNDERGROUND SERVICE ALERT) WHO OWN, OPERATE, OR ARE AWARE OF ANY SUBSTRUCTURES AND REQUEST THEY FURNISH 'AS-BUILT' ENGINEERING INFORMATION OR PLACE PHYSICAL MARKINGS ON THEIR FACILITIES IN THE FIELD PRIOR TO STARTING ANY PROJECT WORK.
- ALL EXSTING SITE IMPROVEMENTS SHOWN TO REMAIN SHALL BE PROTECTED IN THE FIELD TO THE GREATEST EXTENT POSSIBLE UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY SPECIFIC UTILITY OR MUNICIPAL REQUIREMENTS AND SHALL INCORPORATE SUCH REQUIREMENTS INTO THE SCOPE OF WORK.
- 5. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION RELATED SERVICES AND ACTIVITIES, INCLUDING TEMPORARY OFFICES AND MATERIAL/EQUIPMENT STORAGE FACILITIES TO THE DESIGNATED CONSTRUCTION STAGING AREA. COORDINATE WITH THE BUILDING OWNER AREAS APPROPRIATE FOR CONTRACTOR STAGING ACTIVITIES PRIOR TO START OF WORK. IF NECESSARY, ERECT A TEMPORARY FENCE OR BARACADE AROUND THE AGREED TO CONTRACTOR STAGING AREA.
- 6. CONTRACTOR SHALL MAINTAIN ALL AREAS OUTSIDE THE BUILDING AREA FREE AND CLEAR OF ALL CONSTRUCTION MATERIALS AND DEBRIS.
- 7. FULL EXTENT OF DEMOLITION AND REMOVAL REQUIRED SHALL INCLUDE ALL DEMOLITION AND REMOVAL ITEMS SHOWN THROUGHOUT THE CONSTRUCTION DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE WORK.
- 8. WHEN CUTTING OR PATCHING OF EXISTING CONDITIONS ARE NECESSARY TO FACILITATE NEW CONSTRUCTION, THE PATCH AND/OR REPAIR OF (E) SURFACES SHALL BE PERFORMED IN SUCH A MANNOR AS TO NOT ADVERSELY AFFECT THE PERFORMANCE OF THE ASSEMBLY OR CONSTRUCTION TYPE. UPON COMPLETION OF CUTTING AND PATCHING WORK, ALL FINISHES SHALL BE CONSISTANT AND UNIFORM IN APPEARANCE. ALL (N) PAINT SHALL BE TO THE NEAREST BREAK POINT (90 DEG. CORNER).

PARKING PLAN REFERENCE NOTES

- (E) ASPHALT DRIVEWAY PAVING TO REMAIN. PROTECT IN PLACE. SAWCUT WHERE SHOWN ON SHEET A1.1.
 IN ADDITION, SAWCUT, REMOVE, PATCH AND REPAIR DAMAGED PAVING AS NECESSARY TO OBTAIN SMOOTH PARKING SURFACE TRANSITION TO ACCESSIBLE PARKING INDICATED. UPON COMPLETION, PROVIDE SLURRY SEAL TOP COAT AND ALLOW SLURRY SEAL TO CURE PRIOR TO APPLYING STRIPING.
- (2) (E) ASPHALT WALKWAY TO REMAIN. PROTECT IN PLACE. PATCH AS REQD. TO COMPLETE (N) CONSTRUCTION.
- (3) (E) PARKING STRIPING TO REMAIN.
- (4) (N) 3" THICK ASPHALT PAVING OVER 8" CLASS II AGGREGATE BASE (MINIMUM) WITHIN PARKING LOT AREA AS PATCH AGAINST (N) CONCRETE CURB CONSTRUCTION.. 1/2" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE PAVING PATCH EDGE DETAIL 5/A4.2.
- (N) 2-1/2" THICK ASPHALT PAVING OVER 6" CLASS II AGGREGATE BASE ASPHALT PAVING SIDEWALK AS REPRESENTED BY SHADED AREA. 3/8" MAX. ASPHALT PAVING MIX. COMPACT AGGREGATE BASE TO 90% RELATIVE COMPACTION OVER SUBGRADE COMPACTION OF 95%. SEE SPECIFICATIONS. PROVIDE CONTINUOUS 2x8 REDWOOD HEADER ON ALL PAVING EDGES JOINING TURF LANDSCAPE. SEE PAVING SECTION DETAIL 6/A4.2.
- (N) CONCRETE CURB AND ADJOINING ASPHALT SIDEWALK. SEE DETAIL 2/A5.2.
- $\overline{(7)}$ (N) CONCRETE CURB. SEE DETAIL 3/A5.2.
- (N) 5-1/2" THICK CONCRETE SIDEWALK AND CURB RAMP WITH #3BAR STEEL REINFORCING AT 18"o.c. EA. WAY OVER 4" OF COMPACTED 3/4" CLASS II AGGREGATE BASE. SEE ENLARGED SIDEWALK PLAN DETAIL 1/A5.2.
- (N) ACCESSIBLE PARKING ONLY AND \$ FINE SIGNS MOUNTED ON 2" SQUARE TUBE STEEL POLE SET IN CONCRETE BASE. SEE SIGN POLE DETAIL 6/45.2. SEE SIGNAGE DETAIL 7/45.2. THIS SIGN POLE
- LOCATION TO ALSO INCLUDE VAN PARKING SIGN. (N) ACCESSIBLE PARKING ONLY AND \$ FINE SIGNS MOUNTED ON 2" SQUARE TUBE STEEL POLE SET IN CONCRETE BASE TYPICAL OF 3 REOD SEE SIGN POLE DETAIL 6 (45.2). SEE SIGNAGE DETAIL 7 (45.2)
- \sim concrete base. Typical of 3 reqd. See Sign Pole Detail 6/A5.2. See Signage Detail 7/A5.2. (N) 5'-0" long wheel stop. Anchor to pavement with vertical rods. Typical of 4 required.
- (N) 4" WIDE PAINTED PARKING STALL STRIPING. COLOR: WHITE
- (N) 4" WIDE PAINTED ACCESS AISLE STRIPING. COLOR: BLUE
- (N) 4" WIDE CROSSHATCH STRIPING @ 36"o.c. COLOR: WHITE
- (N) 12" HIGH PAINTED LETTERING STATING "NO PARKING". COLOR: WHITE TYPICAL OF 2 REQD.
 (N) 36" SQUARE INTERNATIONAL ACCESSIBILITY SYMBOL WITH PROPORTIONS AS SHOWN ON DEATIL 8/A5.2. TYPICAL OF 4 REQD.
- (N) 12" WIDE CROSSWALK STRIPING. COLOR: WHITE SEE SHEET A2.1 AND A2.2 FOR COMPLETE LAYOUT.
 (E) LANDSCAPING. UPON COMPLETION OF THE WORK, RESTORE ALL IRRIGATION PIPING AND LANDCSAPING
- MATERIALS INCLUDING PLANTS AND GROUND COVER TO MATCH (E).
- PROVIDE 4" PVC SLEEVE FOR IRRIGATION PIPING AND CONTROL WIRING.
- (E) ELECTRICAL LINE-VOLTAGE AND LOW-VOLTAGE PULL BOXES TO REMAIN. SEE ELECTRICAL PLANS. REMOVE (E) ELECTRICAL DISTIBUTION CONCRETE PAD. EXTEND CONDUITS TO (N) ELECTRICAL PAD LOCATION. SEE ELECTRICAL PLANS.
- (N) ELECTRICAL PAD. SEE ELECTRICAL PLANS FOR SIZE AND LOCATION.
- (N) ELECTRICAL PAD. SEE ELECTRICAL PLANS FOR SIZE AND LOCATION. INSTALL (N) 8'-0" HIGH CHAIN LINK FENCING WITH STANDARD FABRIC. SEE DETAIL 2/A4.1 FOR SPECIFIC
- FENCING RÉQUIREMENTS. (N) 8'-0" WIDE BY 8'-0" HIGH DOUBLE-LEAF CHAIN LINK SERVICE GATE WITH LOCKABLE CLASP
- HARDWARE. NO ACCESS BY TEACHERS AND STUDENTS. SEE DETAIL 1/A4.2.
 (25) ASPHALT PAVING SAWCUT LINE. SEE SHEET A1.1 FOR SAWCUT AND DEMOLITION REQUIREMENTS.
- **X** = REFERENCE NOTES NOT APPLICABLE TO PAVING PROJECT



A5.2

SECTION 31 20 00 EARTHWORK, TRENCHING, and BACKFILL

- 1. WORK INCLUDES: CLEAR SITE, EXCAVATE FOR NEW PORTABLE BUILDING PAD AND ASPHALT PAVING CONSTRUCTION, TRENCH FOR UTILITY LINES, AND REMOVE EXCESS SUBSOIL AND MATERIALS FROM SITE.

 - A. REMOVE AND EXPORT EXISTING NATIVE SOILS TO ROUGH GRADE ELEVATIONS. B. PLACE AND COMPACT FILLS TO ROUGH GRADE ELEVATIONS: C. PLACE AND COMPACT AGGREGATE BASE UNDER BUILDING PAD AND ASPHALT PAVED SURFACES. D. CAP AND SEAL DISCONTINUED UTILITY SERVICES AND REMOVE PORTIONS OF
- LINES WITHIN EXCAVATED AREAS.
- PROTECT BENCH MARKS, EXISTING STRUCTURES, ROADS, SIDEWALKS, PAVING AND CURBS AGAINST DAMAGE FROM EQUIPMENT AND VEHICULAR OR FOOT TRAFFIC.
- 3. PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING OR UNDERPINNING TO PROTECT ADJACENT ROADS, STRUCTURES AND UTILITIES AND TO PREVENT CAVE-INS OR LOOSE DIRT FROM FALLING INTO EXCAVATIONS.
- 4. UNDERPIN ADJACENT STRUCTURES WHICH MAY BE DAMAGED BY EXCAVATION WORK. INCLUDING SERVICE LINES AND PIPE CHASES.
- 5. EXCAVATING, FILLING, BACKFILLING, AND GRADING WORK SHALL NOT BE PERFORMED DURING WEATHER CONDITIONS WHICH MIGHT DAMAGE OR BE DETRIMENTAL TO THE CONDITION OF EXISTING GROUND, IN-PROGRESS WORK, OR COMPLETED WORK. WHEN THE WORK IS INTERRUPTED BY RAIN, EXCAVATING, FILLING, BACKFILLING, AND GRADING WORK SHALL NOT RESUME UNTIL THE SITE AND SOIL CONDITION (MOISTURE CONTENT) ARE SUITABLE FOR COMPACTION.
- 6. SUB GRADE SHALL BE FREE FROM MUD, SNOW, ICE, AND DELETERIOUS MATERIAL WHEN WORK IS RESUMED. SOIL MATERIAL THAT IS TOO WET FOR COMPACTION SHALL BE LEFT TO DRAIN, TO BE AERATED AND DRIED BY DISKING AND HARROWING OR OTHER APPROVED METHODS UNTIL THE MOISTURE CONTENT OF THE AREA IS UNIFORM AND WITHIN THE SPECIFIED LIMITS.
- PREVENTION OF EROSION: PREVENT EROSION OF STOCKPILES, DITCHES, EMBANKMENTS, FILLED, BACKFILLED, AND GRADED AREAS UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. A. PREVENT SURFACE WATER RUN-OFF INTO EXCAVATED AREAS.
- 8. REFERENCES: STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), STANDARD SPECIFICATIONS, 2015 EDITION.
- REGULATORY REQUIREMENTS THAT GOVERN THE WORK OF THIS SECTION INCLUDE THE FOLLOWING GOVERNING CODES:
- A. CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, CHAPTER 4, SUBCHAPTER 4 ----CONSTRUCTION SAFETY ORDERS, AND SUBCHAPTER 19 - TRENCH CONSTRUCTION SAFETY ORDERS, FOR TRENCH EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- B. CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, CALIFORNIA BUILDING CODE, CHAPTER 33, AND APPENDIX CHAPTER 33, EXCAVATION AND GRADING, FOR PROTECTION OF THE PUBLIC.
- 10. MATERIAL USED FOR FILL, BACKFILL, AND EMBANKMENT CONSTRUCTION SHALL BE AN INERT. INORGANIC SOIL, FREE FROM DELETERIOUS SUBSTANCES AND OF SUCH QUALITY THAT IT WILL COMPACT THOROUGHLY WITHOUT THE PRESENCE OF VOIDS WHEN WATERED AND ROLLED. INORGANIC SOIL IS DEFINED AS SOIL CONTAINING LESS THAN TWO PERCENT BY WEIGHT OF ORGANIC MATERIAL WHEN TESTED IN ACCORDANCE WITH ASTM D2974.
- 11 EXCAVATED ON-SITE MATERIAL WILL BE CONSIDERED SUITABLE FOR FILL, BACKFILL, AND IBANKMENT CONSTRUCTION IF IT IS FREE FROM ORGANIC MAT DELETERIOUS SUBSTANCES AND CONFORMS TO THE REQUIREMENTS SPECIFIED HEREIN. EXCAVATED MATERIAL THAT IS SUITABLE FOR FILL, BACKFILL, AND EMBANKMENT CONSTRUCTION SHALL BE CONDITIONED FOR REUSE AND PROPERLY STOCKPILED FOR LATER FILLING AND BACKFILLING OPERATIONS, CONDITIONING SHALL CONSIST OF SPREADING MATERIAL IN LAYERS NOT TO EXCEED 8 INCHES AND RAKING FREE OF DEBRIS AND RUBBLE. ROCKS EXCEEDING 6 INCHES IN LARGEST DIMENSION AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AS SPECIFIED HEREIN UNDER DISPOSAL OF SURPLUS MATERIAL.
 - A. WHERE CONDITIONS REQUIRE THE IMPORTING OF FILL OR BACKFILL MATERIAL, THE MATERIAL SHALL BE AN INERT SOIL OR SOIL-ROCK MATERIAL FREE OF ORGANIC MATTER AND MEETING OR EXCEEDING THE MINIMUM REQUIREMENTS SPECIFIED HEREIN FOR THE LOCATION.
- 12. FILL GENERAL REQUIREMENTS: NON-EXPANSIVE MATERIAL FREE OF CLAY, DEBRIS, WASTE, FROZEN MATERIAL, VEGETABLE MATTER, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, AND OTHER DELETERIOUS MATTER. A. ACCEPTABLE FILL: ASTM D2487-TABLE 1 SOIL CLASSIFICATION GROUPS GW, GP,
- GM_SM_SW_AND SP. B. UNACCEPTABLE FILL: ASTM D2487-TABLE 1 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH, AND PT. 14. FILL - SPECIFIC REQUIREMENTS:
 - A. STRUCTURAL FILL: WELL TO MODERATELY-GRADED GRANULAR SOILS, AS EXCAVATED, SCREENED OR BLENDED, HAVING THE FOLLOWING MECHANICAL PROPERTIES AND GRADATION:
 - 1) LIQUID LIMIT (ASTM D4318): 25 MAXIMUM PLASTICITY INDEX (ASTM D4318): 6 MAXIMUM GRADATION (ASTM D422): SIEVE OPENING
 - 3 INCH SQUARE U.S. NO. 4
 - U.S. NO. 30 U.S. NO. 200
 - 4) SAND EQUIVALENT (CALIF. TEST 217):
 - B. CALTRANS 3/4" TYPE II AGGREGATE BASE: WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, CRUSHED OR UNCRUSHED GRAVEL, HAVING THE FOLLOWING MECHANICAL PROPERTIES AND GRADATION:
 - GRADATION: SIEVE OPENING
 - **1 INCHES SQUARE** 3/4 INCHES SQUARE
 - U.S. NO. 4 U.S. NO, 30 U.S. NO. 200
 - PERCENTAGE WEAR (ASTM C131 OR C535): SOFT FRAGMENTS AS A FUNCTION OF WEAR:
 - COAL AND LIGNITE: CLAY LUMPS: OTHER DELETERIOUS MATERIAL:
- C. SAND: CLEAN NATURAL SAND; FREE FROM SILT, CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATTER. 15. BEDDING:
 - A. SAND: SAND FOR BEDDING OF PIPE IN UTILITY TRENCHES SHALL BE A CLEAN AND GRADED, WASHED SAND, ALL PASSING A NO. 4 U.S. STANDARD SIEVE, AND CONFORMING GENERALLY TO ASTM C33 FOR FINE AGGREGATE. A FINER SAND MAY BE USED IF CONVENIENT, PROVIDED THE SAND IS CLEAN AND DOES NOT CONTAIN DELETERIOUS SUBSTANCES IN EXCESS OF THE AMOUNTS SPECIFIED IN ASTM C33, TABLE 3. ONLY SAND WILL BE PERMITTED FOR BEDDING OF CONCRETE PIPE, CLAY PIPE, AND CAST-IRON PIPE.
 - B. PEA GRAVEL: CLEAN AND GRADED, WASHED RIVER-RUN GRAVEL, ASTM C33, SIZE NO, 7, PEA GRAVEL MAY BE USED IN TRENCHES REQUIRING ADDITIONAL DRAINAGE AND FOR BACKFILLING ABOVE THE PIPE'S UPPER HALF (ABOVE THE HORIZONTAL CENTERLINE).
 - C. FILTER FABRIC: GEOTEXTILE ENGINEERING FABRIC CONFORMING TO CALTRANS STANDARD SPECIFICATIONS, SECTION 88, FILTER FABRIC FOR UNDERDRAINS
- 16. ESTABLISH EXTENT OF EXCAVATION BY AREA AND ELEVATION: DESIGNATE AND IDENTIFY DATUM ELEVATION. SET REQUIRED LINES AND LEVELS. MAINTAIN BENCH MARKS AND OTHER REFERENCE POINTS.
- 17. ESTABLISH LOCATION AND EXTENT OF UNDERGROUND UTILITIES OCCURRING IN WORK AREA BEFORE STARTING EXCAVATION. MAINTAIN, REROUTE OR EXTEND AS REQUIRED FOR CONSTRUCTION AND CONSTRUCTION OPERATIONS, EXISTING UTILITY LINES TO REMAIN WHICH PASS THROUGH WORK AREA. REMOVE ABANDONED UTILITY SERVICE LINES FROM AREAS OF EXCAVATION; CAP, PLUG OR SEAL ABANDONED LINES AND IDENTIFY AT GRADE. ACCURATELY LOCATE AND RECORD ABANDONED AND ACTIVE UTILITY LINES REROUTED OR EXTENDED, ON PROJECT RECORD DOCUMENTS. CLEAR

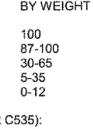
FOR NEW CONSTRUCTION.

PERCENT PASSING, BY WEIGHT

35 MINIMUM 20 MINIMUM

25 MAXIMUM 20 MINIMUM

PERCENT PASSING.



50 PERCENT MAXIMUM 15 PERCENT MAX 0.25 PERCENT MAXIMUM 0.25 PERCENT MAXIMUM 2.0 PERCENT MAXIMUM

SITE OF LANDSCAPING AND HARDSCAPING NOT PREVIOUSLY REMOVED, AS REQUIRED

EARTHWORK, TRENCHING, and BACKFILL CONT.

ASPHALT PAVING CONT

- 18. EXCAVATE SUB-SOIL IN ACCORDANCE WITH LINES AND LEVELS REQUIRED FOR WORK, INCLUDING SPACE FOR FORMS, BRACING AND SHORING, FOUNDATION DRAINAGE SYSTEM, APPLYING WATERPROOFING, AND TO PERMIT INSPECTION. ASSUME RESPONSIBILITY FOR DESIGN, INSTALLATION AND MAINTENANCE OF REQUIRED SHORING AND SHEET PILING.
- 19. COMPACT FILLED OVER-EXCAVATED AREAS TO MINIMUM 95% DRY DENSITY. 20. EXCAVATIONS SHALL NOT INTERFERE WITH NORMAL 45 DEGREE BEARING SPLAY OF
- FOUNDATION. 21. REMOVE EXCESS OR UNSUITABLE EXCAVATED MATERIAL FROM SITE.
- 22. DEWATER EXCAVATION AS NECESSARY, CONSTRUCT BERMS AROUND EXCAVATIONS AS REQUIRED PREVENTING SURFACE WATER AND RUNOFF FROM ENTERING THE EXCAVATION.
- 23. EXCAVATE AND SEPARATELY STOCKPILE SUITABLE FILL AND BACKFILL MATERIAL, AS INDICATED, DURING THE PROGRESS OF THE EXCAVATION WORK. SAVE SUFFICIENT SUITABLE EXCAVATED MATERIAL, IF AVAILABLE, FOR LATER FILLING, BACKFILLING, AND EMBANKMENT CONSTRUCTION.
- 24. STORE MATERIALS FROM REQUIRED EXCAVATIONS THAT ARE SUITABLE FOR FILL. BACKFILL, AND EMBANKMENT AS EXCAVATED, IN STOCKPILES SEGREGATED BY TYPE.
- 25. ESTABLISH EXCAVATED MATERIAL STOCKPILES ON SITE ONLY IN LOCATIONS WHERE THEY WILL NOT INTERFERE WITH THE PROGRESS OF THE WORK. OFFSITE STOCKPILING, IF NECESSARY, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 26. EXCESS EARTH MATERIALS, UNSUITABLE MATERIALS, AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER. LOCATION OF DISPOSAL SITE AND LENGTH OF HAUL SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 27. PERFORM ALL CUTTING, BLADING, AND SHAPING AS REQUIRED TO CUT AND SHAPE THE SUB GRADE TO THE GRADES AND ELEVATIONS INDICATED. SUB GRADE PREPARATION INCLUDES FINE GRADING, REWORKING AS NECESSARY, AND PREPARATION OF CUT, FILL, OR EMBANKMENT UPON WHICH THE STRUCTURE AND EQUIPMENT FOUNDATIONS, PIPE SUB BALLAST, SUB BASE, BASE, AND PAVEMENT WILL BE PLACED. REMOVE UNSUITABLE SUB GRADE MATERIAL, SUCH AS WEAK OR COMPRESSIBLE SOILS. SCARIFY AND MIX ENTIRE SURFACE OF SUB GRADE TO A DEPTH OF AT LEAST 6 INCHES. MOISTURE CONDITION SCARIFIED SUB GRADE TO 3 PERCENT ABOVE OPTIMUM MOISTURE CONTENT IF SUB GRADE STABILIZATION MATERIAL IS REQUIRED, INCORPORATE IT INTO THE SUB GRADE AT THIS TIME. AFTER THE MATERIAL HAS BEEN THOROUGHLY MIXED AND MOISTURE-CONDITIONED, ACCURATELY CONSTRUCT AND FINE GRADE THE SUB GRADE TO INDICATED LINE, GRADE, AND CONTOUR WITH HIGH AND LOW SPOTS ELIMINATED. COMPACT FOR FULL WIDTH TO THE SPECIFIED DENSITY. REMOVE SOFT SPOTS DEVELOPED DURING WORKING, FILL WITH APPROVED MATERIAL, AND RE-COMPACT.
- 28. COMPACTED FILL FOR RAISING OF SUB GRADE TO INDICATED ELEVATION SHALL BE CONSTRUCTED BY APPROVED METHODS. FILL MATERIAL SHALL BE SPREAD IN UNIFORM LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS. FILL MATERIAL THAT DOES NOT CONTAIN SUFFICIENT MOISTURE TO COMPACT PROPERLY SHALL BE SPRINKLED WITH WATER; IF IT CONTAINS EXCESS MOISTURE IT SHALL BE AERATED OR

PERMITTED TO DRY TO THE PROPER WATER CONTENT. FILL MATERIAL AND WATER SHALL THEN BE THOROUGHLY MIXED BEFORE BEING COMPACTED. EACH LAYER OF

SPREAD FILL MATERIAL SHALL BE COMPACTED TO THE SPECIFIED DENSITY.

- 29. CONTROL OF FILL SHALL CONSIST OF FIELD INSPECTION AND TESTING TO DETERMINE THAT EACH LAYER HAS BEEN COMPACTED TO THE REQUIRED DENSITY AND TO ENSURE THAT OPTIMUM MOISTURE IS BEING OBTAINED. ANY LAYER OR PORTION OF A LAYER THAT DOES NOT ATTAIN THE COMPACTION REQUIRED SHALL BE SCARIFIED AND RE-COMPACTED UNTIL THE REQUIRED COMPACTION IS OBTAINED.
- 30. SPREADING AND COMPACTING SHALL BE PERFORMED AS REQUIRED TO PRODUCE THE REQUIRED DENSITY AND A UNIFORM SURFACE SMOOTH AND TRUE TO GRADE.
- I. ENSURE AREAS TO BE BACKFILLED ARE FREE FROM DEBRIS AND WATER, AND GROUND
- SURFACES ARE NOT IN A FROZEN CONDITION. 32. DO NOT BACKFILL OVER EXISTING SUBGRADE SURFACES WHICH ARE POROUS, WET OR
- 33. BACKFILL SYSTEMATICALLY AND AS EARLY AS POSSIBLE TO ALLOW MAXIMUM TIME FOR NATURAL SETTLEMENT AND COMPACTION. PLACE AND COMPACT FILL MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 8" LOOSE DEPTH, USE METHOD THAT DOES NOT DISTURB WATERPROOFING. MAINTAIN OPTIMUM MOISTURE CONTENT OF BACKFILL MATERIALS TO ATTAIN REQUIRED COMPACTION DENSITY.
- 34. BUILDING AND PAVING AREA: SUBSOIL TO UNDERSIDE OF AGGREGATE BASE COURSE. COMPACT TO MINIMUM 95% DRY DENSITY.
- 35. OTHER AREAS: PROVIDE SUBSOIL UNLESS OTHERWISE INDICATED. COMPACT TO MINIMUM 90% DRY DENSITY
- 36. MATERIAL FOR BEDDING OF PIPE SHALL BE SAND. MINIMUM THICKNESS OF SAND BEDDING UNDER CONCRETE, CLAY, AND CAST-IRON PIPE SHALL BE 2 INCHES. PROVIDE FIRM AND UNIFORM SUPPORT OF PIPING AT INDICATED ELEVATIONS AND GRADES. TAMP SAND BEDDING AS REQUIRED FOR FIRM SUPPORT.
- 37. BACKFILL SHALL BE PLACED IN 6-INCH LAYERS, LEVELED, RAMMED, AND TAMPED IN PLACE, EACH LAYER SHALL BE COMPACTED WITH SUITABLE COMPACTION EQUIPMENT TO AT LEAST 90 PERCENT RELATIVE COMPACTION, TAKING CARE NOT TO DAMAGE OR MISALIGN ANY PIPE. THE TOP 12 INCHES UNDER STRUCTURES AND PAVEMENT SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.
- 38. FINISH GRADE ALL AREAS TO ELEVATIONS AND GRADES INDICATED. IN AREAS TO RECEIVE TOPSOIL AND LANDSCAPE PLANTING, FINISH GRADING SHALL BE PERFORMED TO A UNIFORM 7 TO 8 INCHES BELOW THE GRADES AND ELEVATIONS INDICATED.

SECTION 32 12 16 ASPHALT PAVING

3.

SPONGY.

- PROVIDE, SPREAD AND COMPACT ASPHALT PAVING AND BASE AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN.
- ADJUSTING TO FINISH GRADE ANY AND ALL NEW OR EXISTING MANHOLES, SEWER CLEANOUTS, DRAINAGE STRUCTURES, IRRIGATION CONTROLLERS, ETC., WHICH ARE
- INCLUDED IN THE LIMITS OF WORK. TESTING AND INSPECTION OF THE AGGREGATE BASE AND ASPHALTIC CONCRETE SHALL BE DONE BY A TESTING LABORATORY RETAINED AND PAID FOR BY THE OWNER. ANY AREAS RECEIVING FAILING TESTS SHALL BE REWORKED BY THE CONTRACTOR TO ACHIEVE THE MINIMUM SPECIFIED DEGREE OF COMPACTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE SATISFACTORY RESULTS.
- REFERENCES: DESIGN AND CONSTRUCTION STANDARDS OF THE LOCAL MUNICIPALITY OR JURISDICTION, LATEST EDITION. CALTRANS STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- AGGREGATE FOR AGGREGATE BASES SHALL BE CLEAN AND FREE OF VEGETABLE MATTER AND OTHER DELETERIOUS SUBSTANCES. AGGREGATE BASE SHALL BE OF SUCH A NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING AND ROLLING TO FORM A FIRM, STABLE BASE.
- AGGREGATE BASE SHALL BE CLASS 2, AND THE COMBINED AGGREGATE SHALL CONFORM TO THE 34-INCH MAXIMUM GRADING SPECIFIED IN SECTION 26-1.02A "CLASS 2 AGGREGATE BASE" OF THE 1992 CALTRANS SPECIFICATIONS. RECYCLED MATERIAL MEETING THE GRADATION AND STRENGTH REQUIREMENTS OF VIRGIN MATERIAL MAY BE USED.
- 7. THE ASPHALT CONCRETE SHALL BE TYPE A AND SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS. PROVIDE AGGREGATES AND FINES AS FOLLOWS:
 - A. 1/2 INCH MAXIMUM MEDIUM AGGREGATE, AT ALL ASPHALT DRIVEWAY AREAS AND UTILITY TRENCH PATCHES.
- B. 3/8 INCH MAXIMUM AGGREGATE AT ALL ASPHALT WALKWAYS AND RAMP LANDINGS. SUBGRADE PREPARATION SHALL NOT VARY MORE THAN 0.05 FOOT ABOVE, OR 0.05 FOOT BELOW THE GRADE ESTABLISHED. PREPARED SUBGRADE SHALL BE INSPECTED BY THE INDEPENDENT TESTING LABORATORY RETAINED BY THE OWNER PRIOR TO THE PLACEMENT
- OF ANY AGGREGATE BASE. AGGREGATE BASE SHALL BE DELIVERED TO THE ROADBED AS UNIFORM MIXTURES AND SHALL BE GRADED IN LAYERS OR WINDROWS, SEGREGATION SHALL BE AVOIDED AND THE BASE SHALL BE FREE FROM POCKETS OF COARSE OR FINE MATERIAL.
- A. THE AGGREGATE BASE, AFTER SPREADING AS ABOVE SPECIFIED, SHALL BE SHAPED TO SUCH THICKNESS THAT AFTER WATERING AND COMPACTING THE COMPLETED BASE WILL CONFORM TO THE REQUIRED GRADE AND CROSS SECTION, WITHIN THE TOLERANCES SPECIFIED IN SECTION 26-1.05 "COMPACTING" OF THE CALTRANS SPECIFICATIONS.

- THICKNESS
- 11. THE FINISHED SURFACE OF THE AGGREGATE BASE SHALL NOT VARY MORE THAN 0.05 FOOT FROM THE DESIGN GRADES. SUBGRADE SHALL NOT VARY MORE THAN 0.05 FOOT ABOVE OR **BELOW DESIGN GRADE.**
- 12. AGGREGATE BASE WHICH FAILS TO MEET THE SPECIFIED TOLERANCES SHALL BE RESHAPED, REWATERED AND RECOMPACTED AT THE CONTRACTOR'S EXPENSE. 13. APPLY TACK COAT OF RS-1 OR CRS1 EMULSION TO VERTICAL SURFACES OF EXISTING SURFACING THAT WILL COME INTO CONTACT WITH ASPHALT CONCRETE.
- SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS. 15. FINISHED PAVEMENT AREAS SHALL BE FLOW TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE TO CONFIRM THAT POSITIVE GRADIENTS THAT FACILITATE PROPER AND COMPLETE SURFACE DRAINAGE HAVE BEEN ACHIEVED IN ALL PAVED AREAS. ANY AREAS THAT FAIL THE FLOW TEST, DEFINED AS ANY AREA WHERE THE DEPTH OF PONDING WATER EXCEEDS 1/8 INCH OR WHERE THE SURFACE OF A PONDING AREA EXCEEDS 10 SQUARE FEET, SHALL BE REPAVED TO ACHIEVE POSITIVE DRAINAGE.
- COMPLETED.

SECTION 32 13 00 SITE CONCRETE

- OTHERWISE.
- FOR REINFORCED CONCRETE.
- 5. MATERIALS TO BE FACTORY PREMIXED, JOB-SITE MIXING OF MATERIALS IS NOT ACCEPTABLE.
- PLACEMENT.
- 7. FILL MATERIALS:
- INDICATED.

STANDARDS.

- INDICATED OR OTHERWISE REQUIRED. OR OTHER ERRORS AND PROVIDE NEW MATERIAL; DO NOT RE-BEND OR STRAIGHTEN UNLESS SPECIFICALLY INDICATED. REBENDING OF REINFORCEMENT IN THE FIELD IS NOT ALLOWED MATERIAL OR THE EMBEDDING CONCRETE.
- A. ACCURATELY SHOP-FABRICATE TO SHAPES, BENDS, SIZES, GAUGES AND LENGTHS B. BEND BARS ONCE ONLY. DISCARD BARS IMPROPERLY BENT DUE TO FABRICATING C. DO NOT BEND REINFORCEMENT IN A MANNER THAT WILL INJURE OR WEAKEN THE D. DO NOT HEAT REINFORCEMENT FOR BENDING. HEAT-BENT MATERIALS WILL BE
- REJECTED.

ENTIRE JOB.

E. UNACCEPTABLE MATERIALS: REINFORCEMENT WITH ANY OF THE FOLLOWING DEFECTS WILL NOT BE PERMITTED IN THE WORK.

B. THE BASE SHALL BE SPREAD, WATERED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN COMPACTED THICKNESS TO ACHIEVE THE SPECIFIED

- 10. THE RELATIVE COMPACTION OF THE BASE SHALL NOT BE LESS THAN 95 PERCENT.
- 14. SPREADING AND COMPACTING ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH
- 16. THE CONTRACTOR SHALL MARK THE LOCATION OF ALL STRUCTURES TO BE ADJUSTED TO GRADE AND SHALL BE RESPONSIBLE FOR THEIR LOCATION AFTER PAVING OPERATIONS ARE
- 17. AFTER SURFACING OR RESURFACING IS COMPLETED, THE CONTRACTOR SHALL CONSTRUCT OR RECONSTRUCT THE STRUCTURES TO GRADE AS SHOWN ON THE PLANS.

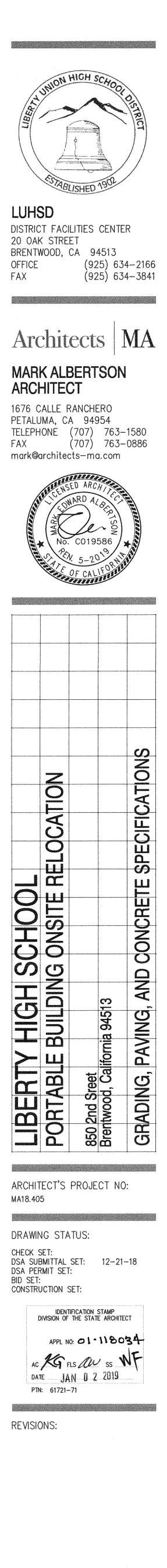
1. SECTION INCLUDES: PROVIDE SITE CONCRETE INCLUDING CURBS, CURB AND GUTTERS, RAMPS AND SIDEWALKS AS WELL AS OTHER SMALL SITE FEATURE FOOTINGS. WHERE SHOWN, PREPARATION OF SUBGRADE AND PLACING AND COMPACTING BASE COURSE. AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.

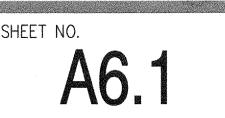
2. PROVIDE STANDARD CONCRETE FLATWORK WITH BROOM FINISH UNLESS INDICATED

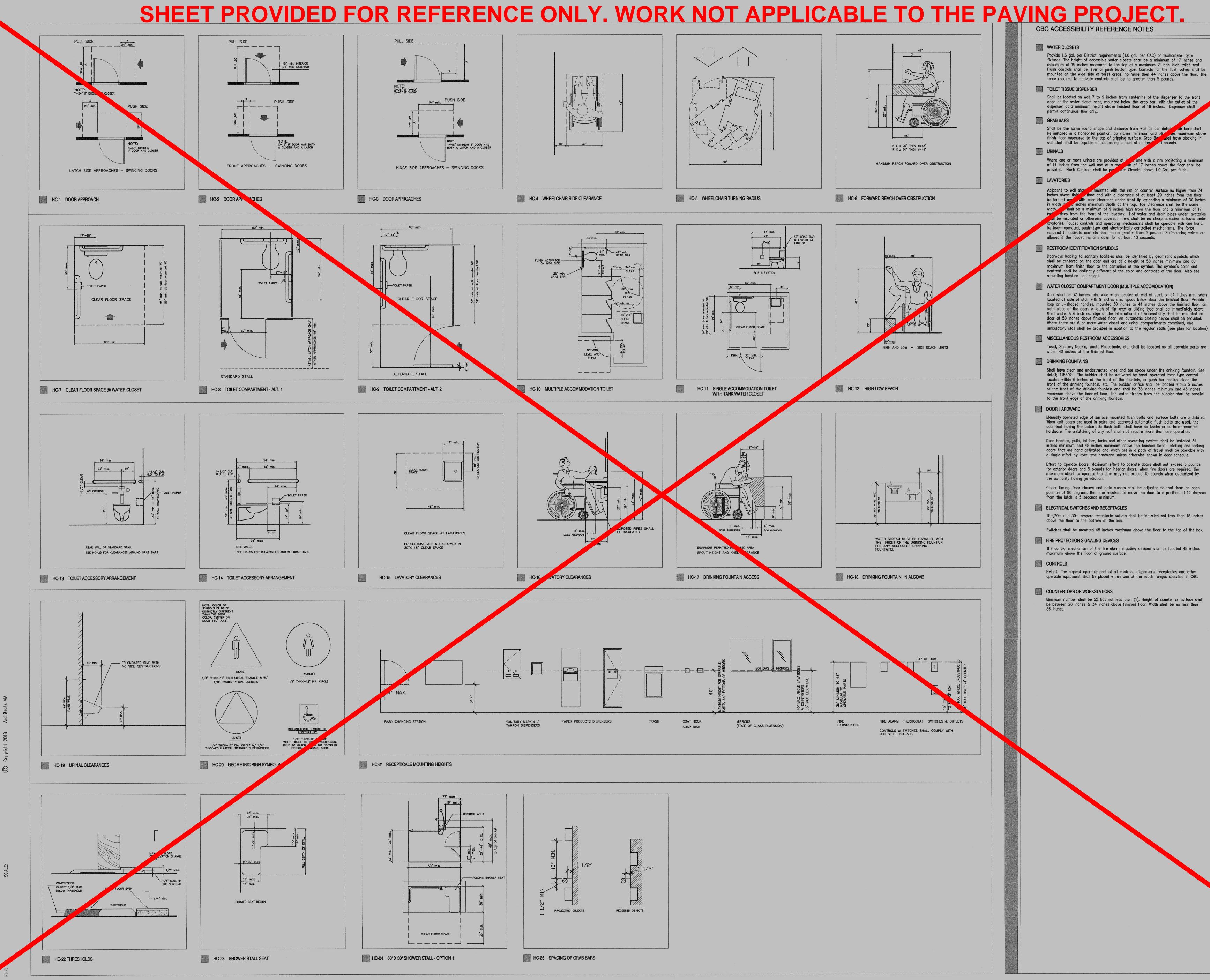
- REFERENCES: AMERICAN CONCRETE INSTITUTE, ACI 318: BUILDING CODE REQUIREMENTS
- 4. DESIGN REQUIREMENTS: MATERIALS FOR SITE CONCRETE SHALL COME FROM A SINGLE SOURCE, AND SHALL NOT BE CHANGED THROUGHOUT PROJECT.
- TRAFFIC CONTROL: MAINTAIN ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC DURING
- A. TYPE II 3/4" AGGREGATE BASE
- FORMS: SIZE FORMS TO RESIST MOVEMENT DURING CONCRETE PLACEMENT AND RETAIN HORIZONTAL AND VERTICAL ALIGNMENT UNTIL REMOVAL; USE FORMS WHICH ARE STRAIGHT AND FREE OF DISTORTIONS AND DEFECTS.
- A. USE FLEXIBLE SPRING STEEL FORMS OR LAMINATED BOARDS TO FORM RADIUS
- B. COAT FORMS WITH NON-STAINING, CLEAR, FORM RELEASE AGENT WHICH WILL NOT DISCOLOR OR DEFACE SURFACE OF CONCRETE. REINFORCING: DEFORMED STEEL BARS, ASTM A615, GRADE 60, UNLESS OTHERWISE
- A. BARS #3 AND SMALLER SHALL BE GRADE 40, UNLESS OTHERWISE INDICATED.
- B. ALL REINFORCEMENT TO BE UNFINISHED. C. JOINT DOWEL BARS, PLAIN BILLET STEEL BARS, ASTM A615, GRADE 40.
- D. CUT REINFORCING TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS. E. CONCRETE BLOCKS: SLAB-ON-GRADE CONDITIONS ONLY, AS REQUIRED TO SUPPORT REINFORCING BARS IN POSITION.
- F. REINFORCING SUPPORTS: PLASTIC OR GALVANIZED STEEL CHAIRS, BOLSTERS, BAR SUPPORTS, OR SPACERS SIZED AND SHAPED FOR ADEQUATE SUPPORT OF REINFORCEMENT AND CONSTRUCTION LOADS IMPOSED DURING CONCRETE PLACEMENT, MEETING ACI AND CRSI STANDARDS.
- REINFORCING FABRICATION: FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH CRSI (DA4), UNLESS SPECIFICALLY SHOWN OTHERWISE. DETAILS NOT SPECIFICALLY
- SHOWN OR INDICATED SHALL CONFORM TO ACI 315 AND SPECIFIED CODES AND
- 1) BAR LENGTHS, DEPTHS AND BENDS EXCEEDING SPECIFIED FABRICATION TOLERANCES. 2) BENDS OR KINKS NOT INDICATED ON DRAWINGS OR FINAL SHOP DRAWINGS 3) BARS WITH REDUCED CROSS-SECTION DUE TO RUSTING OR OTHER CAUSE.
- F. TAG REINFORCEMENT WITH DURABLE IDENTIFICATION TO FACILITATE SORTING AND PLACING.
- 11. CONCRETE GENERAL: COMPLY WITH ACI 318, INCLUDING REFERENCED ASTM STANDARDS FOR STRUCTURAL CHARACTERISTICS OF CONCRETE.
 - A. CEMENT: ASTM C150; PROVIDE TYPE I WHITE CEMENT AT CONCRETE INDICATED TO BE INTEGRAL COLOR CONCRETE; USE ONLY ONE BRAND AND TYPE OF CEMENT FOR EACH TYPE OF SITE CONCRETE.
 - B. AGGREGATES: ASTM C33, NORMAL WEIGHT AGGREGATES CONSISTING OF SAND OR CRUSHED STONE SCREENINGS, GRAVEL OR CRUSHED STONE, CLEAN, HARD, FREE OF DELETERIOUS MATTER. 1) STANDARD AGGREGATES: SIZE, TYPE AND COLOR TO MATCH APPROVED SAMPLES
 - AND MOCK-UPS; WASHED; FROM SINGLE SOURCE AND OF SAME COLOR FOR 2) EXPOSED AGGREGATES: MAXIMUM 3/8" SPECIAL COLOR CRUSHED MARBLE OR GRANITE AGGREGATE OF TYPE AND COLOR TO PROVIDE APPROVED FINISH;
 - WASHED; FROM A SINGLE SOURCE AND OF SAME TYPE FOR ENTIRE JOB. C. COMPRESSIVE STRENGTH: MINIMUM 3000 PSI AT 28 DAYS.
 - D. SLUMP RANGE: 2" TO 4".
 - E. AIR CONTENT: 5% TO 8%

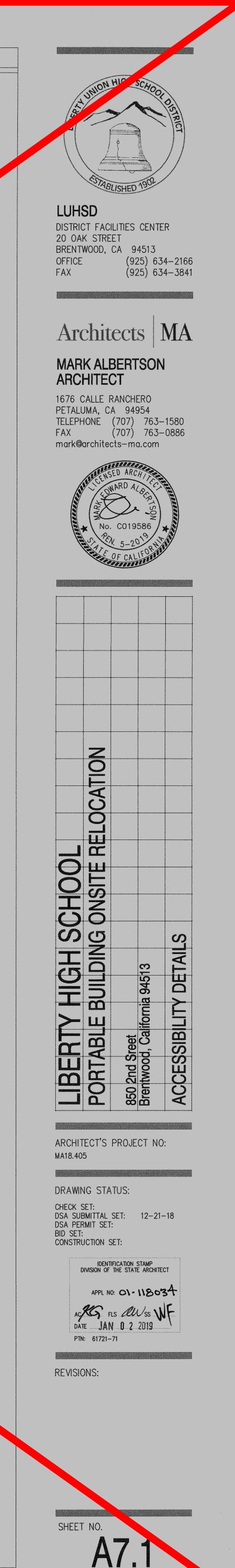
SITE CONCRETE CONT

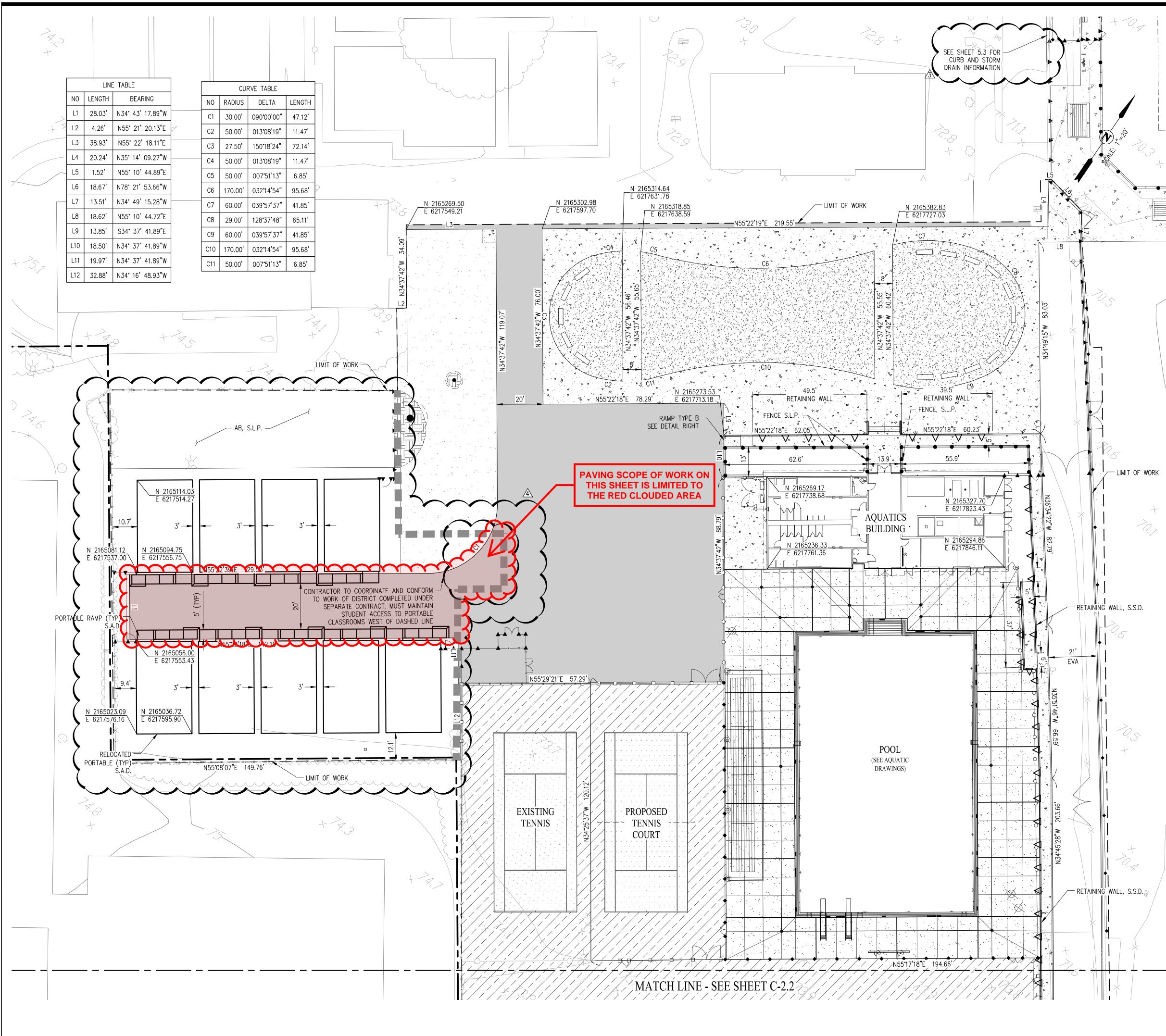
- 12. INTEGRAL COLOR PIGMENTS: PURE, NON-FADING, NON-STAINING, MINERAL OXIDES COLOR CONFORMING TO ASTM C979 AND DESIGNED AND MIXED TO PROVIDE UNIFORM COLOR
 - A. COLOR: AS SELECTED BY ARCHITECT AND AS REQUIRED TO PRODUCE FINAL, CURED COLOR OF CONCRETE TO MATCH ARCHITECT APPROVED SAMPLES; CUSTOM COLOR MAY BE REQUIRED. **B. MANUFACTURERS:**
 - 1) L.M. SCOFIELD CO./CHROMIX. DAVIS COLORS/TRUE TONE COLORS.
 - 3) SOLOMON GRIND-CHEM SERVICE, INC./SOLOMON COLORS.
 - C. ACCESSORIES: PROVIDE CURE AND HARDENERS FOR INTEGRAL COLOR CONCRETE BY SAME MANUFACTURER AS INTEGRAL COLOR PIGMENTS OR PROVIDE MATERIALS RECOMMENDED BY INTEGRAL COLOR PIGMENT MANUFACTURER FOR COMPATIBILITY WITH INTEGRAL COLOR MATERIALS.
- 13. WATER: DRINKABLE, FREE OF FOREIGN MATERIALS IN AMOUNTS HARMFUL TO CONCRETE AND EMBEDDED STEEL.
- 14. PLASTICIZERS AND ADMIXTURES: LIMIT TO TYPES AND QUANTITIES TO PROVIDE CONCRETE MIX SPECIFIED AND TO PROVIDE NECESSARY WORKABILITY; DO NOT USE CALCIUM CHLORIDES.
- 15. CURE AND HARDENER (STANDARD SITE CONCRETE): PROVIDE CLEAR LIQUID CURE/HARDENER SUITABLE FOR TRAFFIC, CURING TYPE HARDENER THAT PREVENTS DUSTING, AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED AND COMPATIBLE WITH INTEGRAL COLOR CONCRETE MATERIALS.
- A. COMPLY WITH APPLICABLE LIMITATIONS FOR VOLATILE ORGANIC COMPOUNDS (VOC).
- B. MANUFACTURERS:
- 1) SONNEBORN DIVISION CHEMREX, INC. 2) L&M CONSTRUCTION CHEMICALS, INC.
- 3) HILLYARD, INC. 4) SYMONS CORP
- 16. RETARDER (EXPOSED AGGREGATE FINISH): PROVIDE MATERIALS SPECIFICALLY INTENDED TO PREVENT SETTING OF SURFACE CEMENT ON CONCRETE SLABS TO ALLOW FOR EXPOSED AGGREGATE FINISH WITHOUT REQUIRING ABRASIVE BLASTING. CALCIUM CHLORIDES ARE NOT ACCEPTABLE
 - A. MANUFACTURERS:
 - 1) BASF/MBT. 2) W.R. MEADOWS. 3) EUCLID CHEMICAL CO.
- 17. EXPANSION JOINT MATERIAL: PREFORMED EXPANSION JOINT FILLERS AND SEALERS; MINIMUM 1/2" ASPHALTIC IMPREGNATED FIBERBOARD.
- 18. ENSURE ROUGH GRADING HAS BROUGHT SUBGRADE TO REQUIRED ELEVATIONS. FILL SOFT SPOTS AND HOLLOWS WITH ADDITIONAL FILL. LEVEL AND COMPACT SUBGRADE TO RECEIVE GRANULAR BASE TO 95% DRY DENSITY. PLACE AND LEVEL GRAVEL FILL OVER PREPARED SUBGRADE, TRUE TO LINES AND LEVELS AND COMPACTED TO 95% DRY DENSITY
- A. DEPTH: MINIMUM 6" WHERE NOT OTHERWISE INDICATED.
- 19. PLACE SAND CUSHION OVER GRAVEL BASE TO A DEPTH OF 2", LIGHTLY CONSOLIDATE AND LEVEL; PREVENT DISPLACEMENT. 20. DURING CONCRETE PLACEMENT, KEEP CUSHION SUFFICIENTLY MOIST TO PREVENT
- EXCESSIVE ABSORPTION OF WATER FROM FRESHLY PLACED CONCRETE.
- 21. FORMING: FORM VERTICAL SURFACES TO FULL DEPTH AND SECURELY POSITION TO REQUIRED LINES AND LEVELS; ENSURE FORM TIES ARE NOT PLACED SO AS TO PASS THROUGH CONCRETE.
 - A. ARRANGE AND ASSEMBLE FORMWORK TO PERMIT EASY DISMANTLING AND STRIPPING, AND TO PREVENT DAMAGE TO CONCRETE DURING FORMWORK REMOVAL
 - 22. REINFORCING: DO NOT EXTEND REINFORCING THROUGH EXPANSION AND CONTRACTION JOINTS.
 - A. PROVIDE DOWELED JOINTS THROUGH EXPANSION AND CONTRACTION JOINTS, WITH ONE END OF DOWELS FITTED WITH CAPPING SLEEVE TO ALLOW FREE MOVEMENT.
 - B. ALLOW FOR MINIMUM 1-1/2" CONCRETE COVER OF REINFORCING. 23. EXPANSION AND CONTRACTION JOINTS: PLACE EXPANSION AND CONTRACTION
 - JOINTS AT MAXIMUM 20-FOOT INTERVALS. A. WHERE POSSIBLE, MAKE JOINTS FOR CURBS COINCIDE WITH JOINTS IN WALKS.
 - B. WHEN CONCRETE ABUTS BUILDING, PROVIDE CONTINUOUS JOINT FILLER. C. FIT JOINTS WITH FILLER OF REQUIRED PROFILES, SET PERPENDICULAR TO LONGITUDINAL AXIS OF CURBS, GUTTERS AND PAVING; RECESS 1/2" BELOW FINISHED CONCRETE SURFACE.
- 24. PLACING SITE CONCRETE: PLACE CONCRETE, SCREED AND WOOD FLOAT SURFACES TO A UNIFORM FINISH TO MATCH ADJACENT PAVING AND CONFORMING TO APPLICABLE CODES AND STANDARDS.
 - A. CURE COLORED CONCRETE SURFACES TO MINIMIZE APPEARANCE BLEMISHES. B. BROOM FINISH: EXCEPT WHERE OTHERWISE INDICATED PAVING SHALL BE NON-SLIP FINISH EQUAL TO BROOM FINISH.
 - C. RETARDER (EXPOSED AGGREGATE) FINISH: WHERE INDICATED PROVIDE EXPOSED AGGREGATE FINISH BY USE OF RETARDER IN ACCORDANCE WITH RETARDER MANUFACTURER RECOMMENDATIONS AND AS REQUIRED TO MATCH APPROVED SAMPLES AND MOCK-UP.
 - D. NONSLIP FINISHES: COMPLY WITH REQUIREMENTS OF CALIFORNIA BUILDING CODE AND AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR NONSLIP FINISHES.
 - E. MAKE 1/4" WIDE DUMMY JOINTS AT 5'-0" INTERVALS.
 - F. ROUND EDGES, INCLUDING EDGES OF DUMMY AND EXPANSION AND CONTRACTION JOINTS, WITH 1/2" RADIUS EDGING TOOL. G. WHERE PAVED SURFACES ARE ADJACENT TO WALKS, MAKE CONCRETE CURBS AND GUTTERS INTEGRAL WITH WALKS. PROVIDE DUMMY JOINT AT LINE BETWEEN
 - WALKS AND CURBS. H. ENSURE FINISHED SURFACES DO NOT VARY FROM TRUE LINES, LEVELS OR GRADE BY MORE THAN 1/8" IN 10'-0" WHEN MEASURED WITH A STRAIGHTEDGE. CROSS SLOPES OF WALKS SHALL NOT EXCEED 1/4" PER FOOT.
- 25. CURING CONCRETE: APPLY CURING COMPOUND ON FINISHED SURFACES IMMEDIATELY AFTER PLACEMENT; APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. A. CURE TOPPING TO PREVENT RAPID DRYING; CURE FOR MINIMUM 7 DAYS WITH CONCRETE KEPT CONTINUOUSLY MOIST AND ABOVE 50 DEGREES F UNLESS OTHERWISE RECOMMENDED BY CURE AND HARDENER MANUFACTURER.
- 26. EXCLUDE TRAFFIC FOR AT LEAST 14 DAYS AFTER PLACEMENT; WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN SURFACES AS CLEAN AS POSSIBLE BY REMOVING STAINS AND MATERIALS SPILLAGE AS THEY OCCUR. IMMEDIATELY AFTER PLACEMENT. AND UNTIL CONCRETE IS SET, PROTECT WORK FROM VANDALISM; REPLACE VANDALIZED
- WORK











LEGEND

$ \land \land$

LIMIT OF WORK CONCRETE (SEE SHEET C-3.0 FOR SECTION) PROPOSED AC (SEE SHEET C-3.0 FOR SECTION) PROPOSED SYNTHETIC TURF, S.L.P. PROPOSED AB, S.L.P. PLEXIPAVE SYSTEM, S.L.D. POOL DECK, SEE AQUATIC DRAWINGS RETAINING WALL, S.S.D.

NOTE:

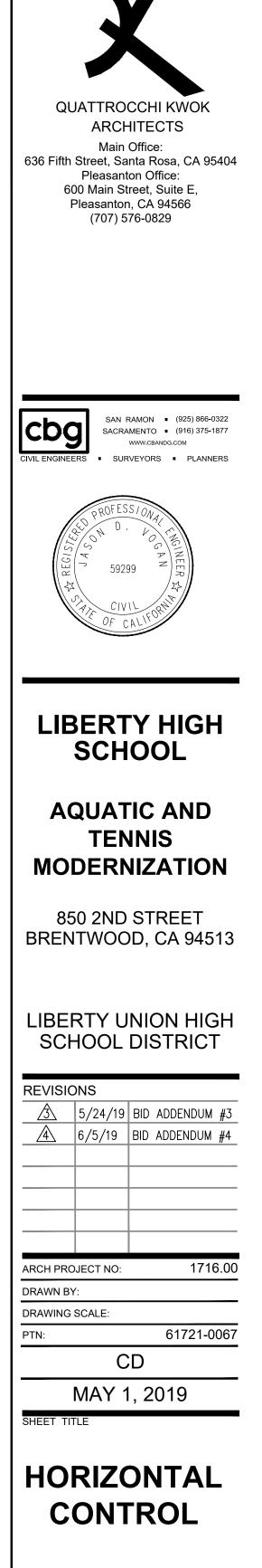
BASIS OF BEARINGS FROM 118 LSM 40. HELD FOUND POINTS 2100 (N 2164245.9187, E 6221956.2891) AND 2103 (N 2164261.2839, E 6216136.4873) THE BEARING BEING N 89° 50' 55" W

BENCHMARK:

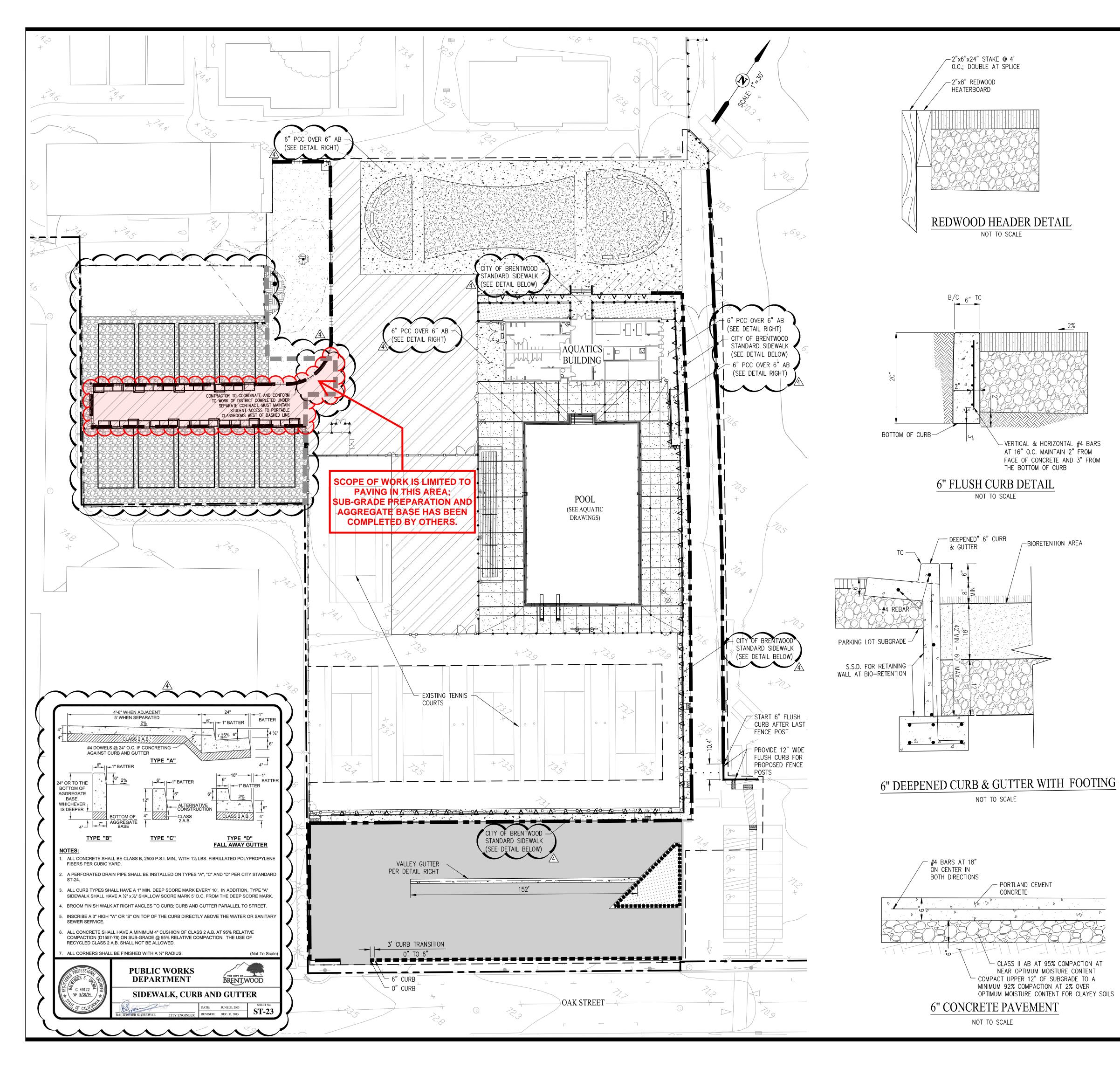
BM 8005: CITY OF BRENTWOOD STANDARD STREET MONUMENT, 2 $\frac{1}{2}$ " BRASS DISK WITH PUNCH, LS 5077, 2001 AT THE INTERSECTION OF LEXINGTON STREET AND ARMSTRONG ROAD DATUM: NAVD 88 ELEVATION: 79.76 FEET

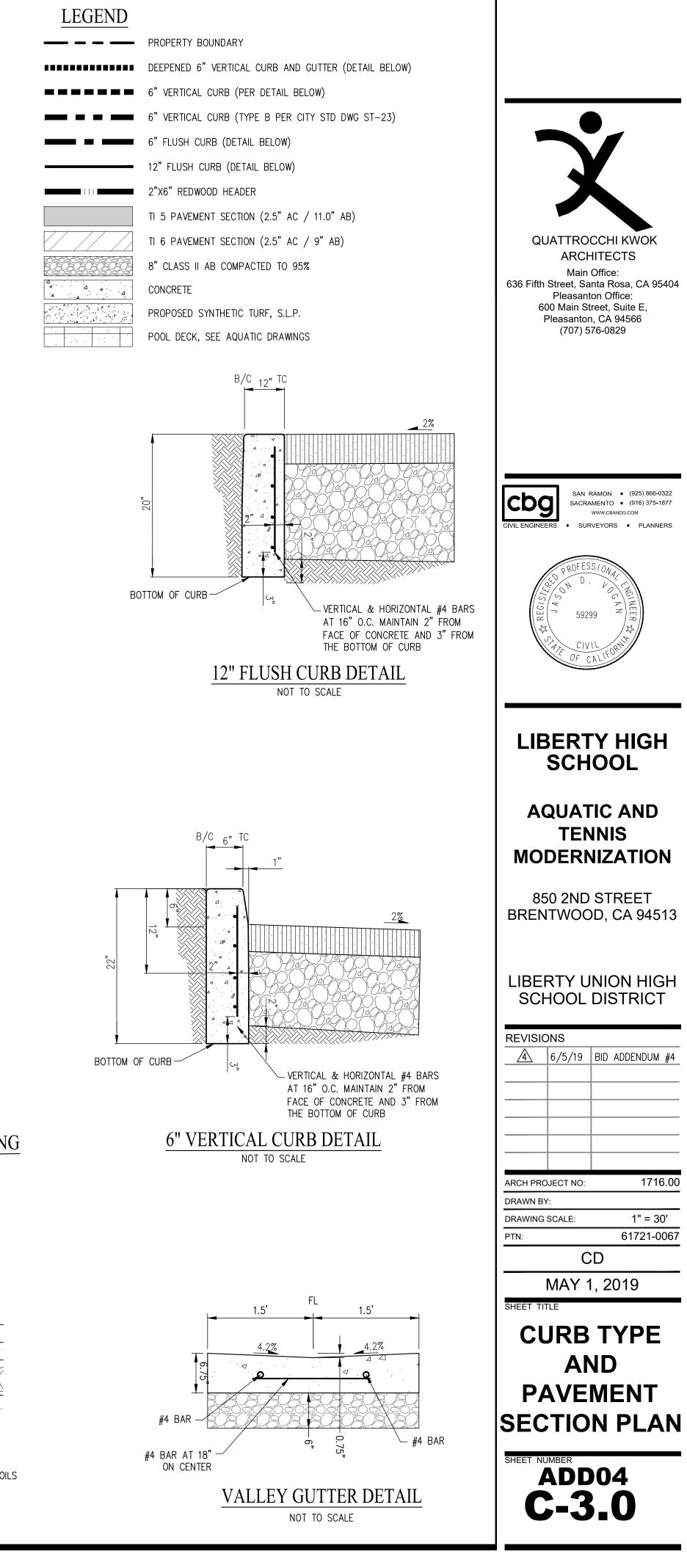
6" CURB 8% 0" CURB -RETAINING WALL TYPE B RAMP

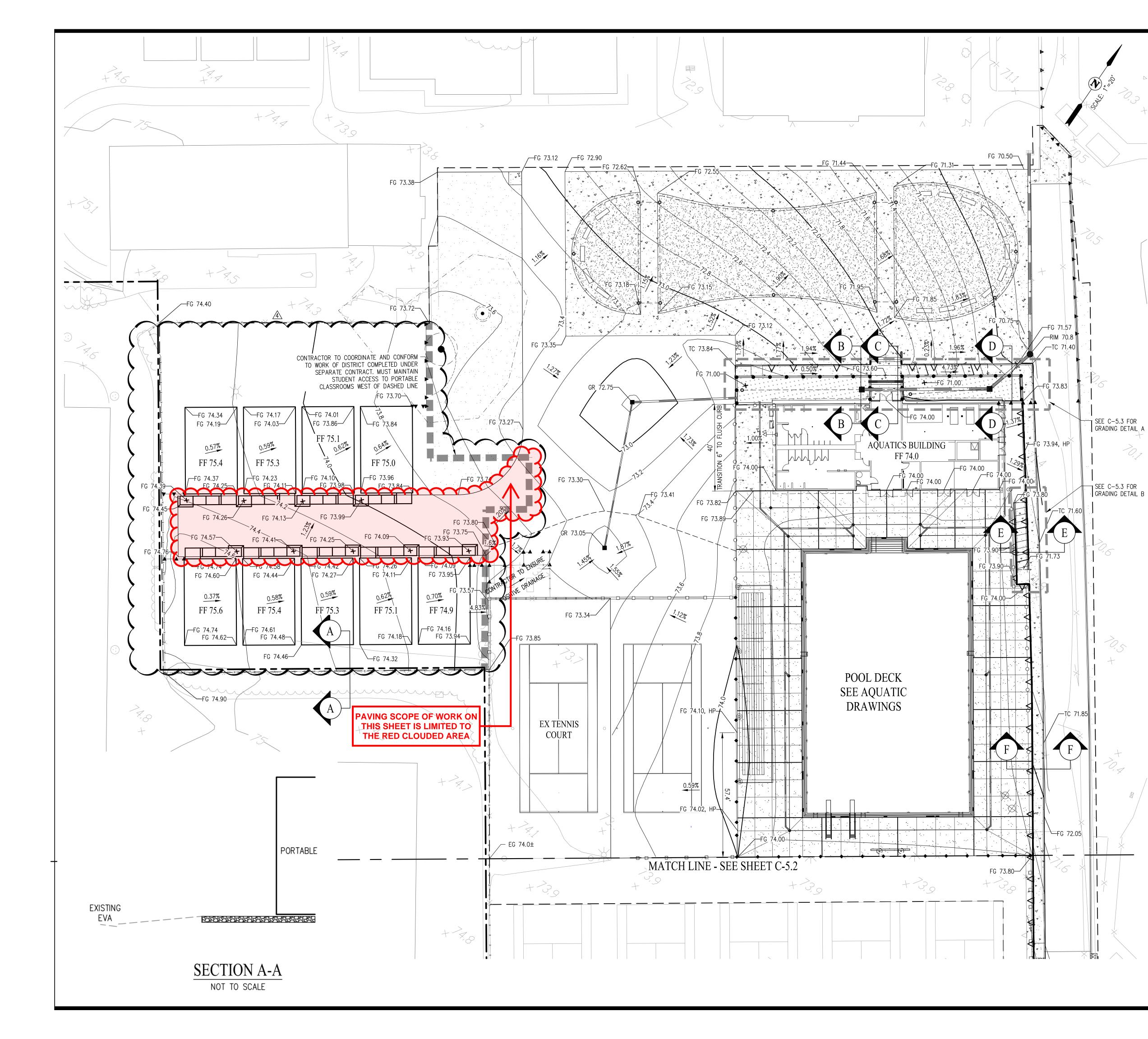
NOT TO SCALE











LEGEND
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68.0
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AC PAVEMENT

AC PAVEMENT
CONCRETE SIDEWALK/GUTTER
CURB AND GUTTER
BIO-RETENTION AREA
PROPOSED STORM DRAIN
PROPOSED FIELD INLET
PROPOSED CLEANOUT
PROPOSED CURB CUT (SEE DETAIL ON SHEET C-5.0)
EXISTING STORM DRAIN
EXISTING FIELD INLET
EXISTING FIELD INEET
GRADE BREAK
GRADE BREAK
GRADE BREAK EXISTING CONTOUR
GRADE BREAK EXISTING CONTOUR PROPOSED MAJOR CONTOUR

NOTES

FOR CROSS SECTIONS SEE SHEET C-5.3
 FOR POOL DECK GRADING, SEE AQUATIC DRAWINGS

GRADING NOTES

NOTES FROM GEOTECHNICAL REPORT DATED APRIL 11, 2018 BY BSK ASSOCIATES. 1. THERE IS A PRESENCE OF MODERATELY EXPANSIVE SURFACE CLAYS AND SOILS SUBJECT TO MODERATE COLLAPSE POTENTIAL. AND SOILS SUBJECT TO MODERATE COLLAPSE POTENTIAL. AND SOILS SUBJECT TO MODERATE COLLAPSE POTENTIAL.

- 2. ESTIMATED SETTLEMENT FOR THIS PROJECT IS 2.25-INCHES.
 3. EXTERIOR CONCRETE FLATWORK AND PAVEMENTS SHALL BE PREPPED PER APPENDIX E OF THE GEOTECHNICAL REPORT.



Project No: 1716.00

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

	SECTION 31 1000		
	SITE CLEARING	1.4	MATERIAL OWNERSH
PART 1	- GENERAL	А.	Except for stripped tops Owner's property, cleare from Project site.
1.1	RELATED DOCUMENTS		DIFORMATIONAL OFF
	Deriving and several provisions of the Contrast induction Contrast and Superlanders	1.5	INFORMATIONAL SUB
А.	Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.	А.	Existing Conditions: Doc
			site improvements that damage caused by site cl
1.2	SUMMARY		damage caused by site ci
А.	Section Includes:		 Use sufficiently de Include plans and tree or other plant
	1. Protecting existing vegetation to remain.		tree of other plant
	2. Removing existing vegetation.	В.	Record Drawings: Identi
	Clearing and grubbing.		subsurface structural, ele
	4. Stripping and stockpiling topsoil.		
	 Removing above- and below-grade site improvements. Disconnecting, comping or scaling, and abandoning site utilities in place. 	16	OUAL PTV ACCURANCE
	 Disconnecting, capping or sealing, and abandoning site utilities in place. Temporary erosion- and sedimentation-control measures. 	1.6	QUALITY ASSURANCE
	7. Temporary crosion and seamentation control measures.	А.	Preinstallation Conferen
В.	Related Sections:		Brentwood, CA.
	 Section 01 7300 "Execution" for field engineering and surveying. 		

DEFINITIONS 1.3

- A. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil; but in disturbed areas such as urban environments, the surface soil can be subsoil.
- C. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing inplace surface soil and is the zone where plant roots grow.
- D. Topsoil: Top layer of the soil profile consisting of existing native surface topsoil or existing inplace surface soil and is the zone where plant roots grow. Its appearance is generally friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 2 inches in diameter; and free of subsoil and weeds, roots, toxic materials, or other non-soil materials.
- Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other E. vegetation to be protected during construction, and indicated on Drawings.

31 1000 - SITE CLEARING - 1

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

Project No: 1716.00

- Fill depressions caused by clearing and grubbing operations with satisfactory soil material В. unless further excavation or earthwork is indicated
 - Place fill material in horizontal layers not exceeding a loose depth of 8 inches, and compact each layer to a density equal to adjacent original ground.

TOPSOIL STRIPPING 3.6

- Remove sod and grass before stripping topsoil. A.
- Β. Strip topsoil to depth of 3 inches in a manner to prevent intermingling with underlying subsoil or other waste materials.
 - Remove subsoil and non-soil materials from topsoil, including clay lumps, gravel, and other objects more than 2 inches in diameter; trash, debris, weeds, roots, and other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.
 - Limit height of topsoil stockpiles to 60 inches.
 - Do not stockpile topsoil within protection zones.
 - Dispose of surplus topsoil. Surplus topsoil is that which exceeds quantity indicated to be stockpiled or reused.
 - Stockpile surplus topsoil to allow for respreading deeper topsoil.

3.7 SITE IMPROVEMENTS

- Remove existing above- and below-grade improvements as indicated and necessary to facilitate Α. new construction.
- Remove slabs, paving, curbs, gutters, and aggregate base as indicated. Β.
 - Unless existing full-depth joints coincide with line of demolition, neatly saw-cut along line of existing pavement to remain before removing adjacent existing pavement. Sawcut faces vertically.
 - Paint cut ends of steel reinforcement in concrete to remain with two coats of antirust coating, following coating manufacturer's written instructions. Keep paint off surfaces that will remain exposed.

DISPOSAL OF SURPLUS AND WASTE MATERIALS 3.8

Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste Α. materials including trash and debris, and legally dispose of them off Owner's property.

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

1.7

Α.

D.

premises.

clearing.

3.

7.

measures are in place.

Foot traffic.

indicated.

Separate recyclable materials produced during site clearing from other nonrecyclable materials. В. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

Project No: 1716.00

F. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

L OWNERSHIP

stripped topsoil and other materials indicated to be stockpiled or otherwise remain property, cleared materials shall become Contractor's property and shall be removed

ATIONAL SUBMITTALS

onditions: Documentation of existing trees and plantings, adjoining construction, and vements that establishes preconstruction conditions that might be misconstrued as used by site clearing.

sufficiently detailed photographs or videotape. ude plans and notations to indicate specific wounds and damage conditions of each or other plants designated to remain.

awings: Identifying and accurately showing locations of capped utilities and other structural, electrical, and mechanical conditions.

tion Conference: Conduct conference at Liberty High School at 20 Oak Street,

PROJECT CONDITIONS

Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's

B. Utility Locator Service: Notify Call Before You Dig for area where Project is located before site

C. Do not commence site clearing operations until temporary erosion- and sedimentation-control

The following practices are prohibited within protection zones:

Storage of construction materials, debris, or excavated material. Parking vehicles or equipment.

Erection of sheds or structures. Impoundment of water. Excavation or other digging unless otherwise indicated. Attachment of signs to or wrapping materials around trees or plants unless otherwise

31 1000 - SITE CLEARING - 2

Project No: 1716.00

END OF SECTION 31 1000

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

Projec

- E. Do not direct vehicle or equipment exhaust towards protection zones.
- F. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.
- G. Soil Stripping, Handling, and Stockpiling: Perform only when the topsoil is dry or slightly moist.

PART 2 - PRODUCTS

- MATERIALS 2.1
- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Section 31 2000 "Earthwork."
 - Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.
- PART 3 EXECUTION
- 3.1 PREPARATION
- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain or to be relocated. Wrap a 1-inch blue vinyl tie tape flag around each tree trunk at 54 inches above the ground.
- C. Protect existing site improvements to remain from damage during construction.
 - Restore damaged improvements to their original condition, as acceptable to Owner.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL 3.2
- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

31 1000 - SITE CLEARING - 3

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

Project No: 1716.00

SECTION 31 2000

EARTHWORK

1. PART- GENERAL

RELATED DOCUMENTS 1.1

- All earthwork shall be in conformance with the soils report. Α.
- Drawings and general provisions of the contract, including General and Supplementary Conditions and Division I Specification Section, apply to this section.
- C. Published specifications, standards, tests, or recommended methods of trade, industry, or governmental organizations apply to Work of this Section where cited by abbreviations noted below (latest editions apply unless otherwise noted).
 - California Code of Regulations, Title 24, 2013 edition, also known as California 1. Building Code (CBC).
 - American Society for Testing and Materials (ASTM). 2.
 - American Association of State Highway and Transportation Officials (AASHTO), "Standard Specifications for Highway Materials and Methods of Sampling and Testing."
 - State of California, Business and Transportation Agency, Department of Public 4. Works, Division of Highways:
 - "Standard Specifications." (a)
 - "Materials Manual," (CMM). (b)

1.2 SUMMARY

- Section Includes: Α.
 - Excavation including removal of known on- or below-grade construction or obstructions, and filling and backfilling.
 - Provision of rock courses, sand beds, and vapor retarders under slabs on grade. 2.
- B. Related Sections include:
 - Section 31 2333 "Trenching and Backfill" for trenching and backfilling 1. underground utilities and detectable warning tapes.

ct	No:	1716.00	

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

3.3 TREE AND PLANT PROTECTION

- Project No: 1716.00
- A. General: Protect trees and plants remaining on-site according to requirements in Section 015639 "Temporary Tree and Plant Protection."
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.
- EXISTING UTILITIES 3.4
- A. Owner will arrange for disconnecting and sealing indicated utilities that serve existing structures before site clearing, when requested by Contractor.
 - Verify that utilities have been disconnected and capped before proceeding with site clearing.
- Locate, identify, disconnect, and seal or cap utilities indicated to be removed or abandoned in place.
- Arrange with utility companies to shut off indicated utilities. Owner will arrange to shut off indicated utilities when requested by Contractor. 2.
- C. Locate, identify, and disconnect utilities indicated to be abandoned in place.
- D. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
 - Notify Architect not less than two days in advance of proposed utility interruptions. Do not proceed with utility interruptions without Architect's written permission.
- E. Excavate for and remove underground utilities indicated to be removed.
- F. Removal of underground utilities is included in earthwork sections and with applicable fire suppression, plumbing, HVAC, electrical, communications, electronic safety and security and utilities sections and Section 024116 "Structure Demolition" and Section 024119 "Selective Demolition."
- CLEARING AND GRUBBING 3.5
- Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
 - Do not remove trees, shrubs, and other vegetation indicated to remain or to be relocated. 1. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches 2.
- below exposed subgrade. 3.
- Use only hand methods for grubbing within protection zones. Chip removed tree branches and dispose of off-site.

31 1000 - SITE CLEARING - 4

Project No: 1716.00 Liberty High School Aquatic and Tennis Mod. Liberty Union High School District 1.3 DEFINITIONS: Α. Compaction: Ratio expressed as percentage of dry density of material compacted in field to maximum dry density of same material as determined by ASTM 01557. 1.4 QUALITY ASSURANCE Regulatory Requirements: Α. Comply with rules and regulations of local and State agencies having jurisdiction. Comply with State and local code requirements for disposal of debris. 2. Allowable Tolerances: B. Excavations shall not exceed 1/10-foot variation from dimensions and elevations shown or noted on plans. Fill and backfill shall be placed within tolerance of plus or minus 1/10-foot. 1.5 PROJECT CONDITIONS Existing Conditions: Α. Carefully maintain bench marks, monuments, and survey control references. Verify or determine locations of underground utilities and avoid damage. Should 2. damage occur, notify the Architect and repair at no additional cost to the Contract. Restore grades disturbed by construction activity or other causes to elevations 3. shown or noted. Environmental Requirements: When unfavorable weather conditions necessitate В. interrupting filling and grading operations, prepare areas by compaction of surface and grading to avoid collection of water. Provide adequate temporary drainage to prevent erosion. After interruption, re-establish compaction specified in last layer before resuming work. Protection: Conduct earthwork operations so as to prevent windblown dust and dirt C. from interfering with the Owner's and adjacent property owner's normal operations. Assume liability for all claims related to windblown dust and dirt. Protect building

structures and adjacent surfaces to remain.

Sequencing: Sequence operations so as to maintain safe working conditions and preserve D. existing Work which is to remain.

Project No: 1716.00

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

2. PART 2 PRODUCTS

Layout: If any discrepancies are found by Surveyor between Drawings and actual conditions at Site, Architect reserves right to make such minor adjustments in Work specified hereunder, as are necessary to accomplish the intent of the Contract Documents, at no increase in Contract price.

RECORDS OF INVESTIGATION 1.6

Α.

The following record of investigation is available as a reference for the Contractor: Α. Title: Geotechnical Investigation Report and Geologic Hazard Assessment, 1.

- Liberty High School Campus Expansion
- Author: BSK Associates 2.
- Date: April 11, 2018 3.
- Availability: Available for reference at the offices of the author of the report and 4. the Architect.

RESPONSIBILITY FOR ACCURACY OF SITE DATA 1.7

The Contractor shall promptly, and before such condition is disturbed, notify the Architect in writing of soil or subsurface conditions which differ materially from those conditions shown in the Contract Documents or in the records of investigations of soil or subsurface conditions referred to above. The Architect shall promptly investigate the conditions. If he finds the conditions materially different from those which reasonably should have been anticipated on the basis of a careful consideration of said records of investigations, logs of borings and examination of the site, and finds that said conditions will cause an increase or decrease in the cost of, and/or the time required for performance of the Contract, he will, after approval by the Owner, modify the Contract Terms in writing to provide for an equitable adjustment in cost and/or time of performance. Any claim of the Contractor shall not be allowed unless he has given the required written notice.

2.1	MAT	ERIALS		
	Α.	All ea	rthwork	shall be in co
	В.	Typic	al Fill ar	nd Backfill:
		1.	Gran	ular, not show
			chang	ges in water co
		2.	Free o	of organic mat
			or lur	nps over 3-inc
		3.	All fil	l material sha
			moist	ure content as
		4.	On-si	te soils may b
			specif	ied. The mois
			Some	drying of on-
		5.	Confo	orm to the foll
			(a)	Maximum
			(b)	Liquid Lim
			(c)	% Passing
3. PA	RT 3 EXI	ECUTIC	DN	
3.1	INSP	ECTION	N	
	Α.	The C	Contracto	or shall be dee
		grade	s, levels	, and other co
3.2	EXCA	VATIO	N	
	Α.	All ea	rthwork	shall be in co
	В.	Gener	ral Requ	irements:
		1.	Excav	ate to dimens
			true.	
		2.	Remo	ve debris, old
			excav	ation.
		3.	Shore	, brace, sheet,
			dana	n to porcore a

31 2000 - EARTHWORK - 3

			Aquatic and Tennis Mod. Project No School District				Aquatic and Tennis Mod. School District
		3.	Subgrade under pavements supporting automobile traffic: 95-percent		F.	Preve	ent erosion of freshly graded
		4.	All other fills: 90-percent				age and erosion control mea
		5.	Do not compact soil in planting areas.				ground cover.
	D.	Com	pacting:		G.	-	finish grading is completed
		1.	Compact by power tamping, rolling or combinations thereof as approve	ed by the			ot by the Architect's approva
			Owner's Soils Engineer. Where impractical to use rollers in close proxim		FIEL	-	LITY CONTROL
			walls, stairs, etc., compact by mechanical tamping. Scarify and recompa	-	A.	The C	Owner's Soils Engineer will:
			layer not attaining compaction until required density is obtained.	2		1.	Sample and test fill mate
		2.	Compaction by flooding, ponding or jetting will not be permitted.			2.	Observe site preparation
.4	SLAB	BASE	AND VAPOR RETARDER INSTALLATION				backfill.
	A.	All e	arthwork shall be in conformance with the soils report.			3.	Perform tests and inspec
	В.	Rock	c Courses:				specifications.
		1.	Verify that all improvements such as floor drains are installed.			4.	Issue final report to the C
		2.	Verify that the Owner's Soils Engineer has approved rough graded and				specifications.
			compacted subgrade.			5.	Submit verified report to
		3.	Place nominal 6-inch thick rock course under building slabs.		В.	The G	Contractor shall:
		4.	Level and compact to smooth surface.			1.	Furnish access to site and
	C.	Vapo	or Retarder Installation: Place vapor retarder sheeting with longest parallel	with		2.	Notify the Soils Engineer
		direc	tion of pour. Lap seams 6" minimum and seal with manufacturer's recomm	ended		3.	Pay costs for additional i
		tape.					Contract Documents.
.5	GRA	DING					
	Α.	All e	arthwork shall be in conformance with the soils report.				END OF S
	В.	Begi	n grading only after debris and construction materials are removed from a	ea			
		conc	erned.				
	C.	Grad	le areas to smooth, level or evenly sloped, uniform surface in conformity to	contour			
		1.	and spot elevations noted. Make grades level where not otherwise indicate	d Pound			

- smooth abrupt changes in slopes. Refill to required levels any settled grades. Slope ground away from building walls.
- Ensure finished grades and surfaces conduct water directly to area drain, gutters, etc. D.
- Place stockpiled topsoil in maximum 6-inch lifts to depth indicated. Scarify subgrade to E. minimum depth of 6-inches and obtain the Architect's approval before placing topsoil. Topsoil shall not be used for engineered fill.

Project No: 1716.00 Liberty High School Aquatic and Tennis Mod. Projec Liberty Union High School District Keep excavation free of water at all times until concrete work and b 4 complete. Grade excavated areas to provide drainage to prevent po onformance with the soils report. water. Excavated Soil Material: All excavated material determined unsuitable for u C. ving excessive shrinkage or swelling when subjected to backfill or in excess of backfill requirements shall be removed from the site. ontent. Provisions for Formwork Construction: D. atter and other deleterious substances and containing no rocks Extend excavations sufficient distance from walls and footings to p iches in greatest dimension. and removal of forms, installation of services and inspection. all be moisture conditioned to at least 3-percent overoptimum Trim excavation walls and bottoms to reasonably smooth lines and as determined by ASTM D1557. E. Earth Forms: The Contractor may excavate to dimensions of footing require be used as fill material except where granular fill material is avoid constructing formwork, provided excavations are clean cut and free of isture content must be within the above limits to be acceptable. cave-ins and provided the Owner's Soils Engineer approves. Continuous tre -site soils may be required. individual footings will not be permitted. llowing minimum requirements: Over-Depth Excavations: Rebuild to grade with lean concrete as directed by F. n Plasticity Index: 15. Soils Engineer. mit: Less than 30%. Topsoil: Strip topsoil as directed by the Owner's Soils Engineer at the time of G. #200 Sieve: 8% - 40% The Contractor shall stockpile topsoil on the site as directed. Removal of On- or Below-Grade Construction or Obstructions: Η. Remove known existing construction or obstructions including well emed to have inspected site and informed himself of actual walls, or otherwise enclosed spaces wherever they occur below new onditions under which Work is to be performed. immediate areas of new construction, new paving or new planted a Reworking of Holes, Depressions, Softened, or Disturbed Areas: onformance with the soils report. Cut out the hole, depression, or unsuitable soil area to workable "ca wider by use of "cat and blade" or similar means, cutting to firm su sions and elevations shown or noted with bottoms square and bottom and sides. Compact the subgrade as specified hereinbefore. ld foundations, tree stumps, and loose rocks from bottom of Fill as specified for structural backfill. "Hook" into the side of the e 3. each lift or fill is spread, as far as may be required to reach firm soil , and slope excavations as required to prevent caving, erosion, of the excavation and to bond new fill into the existing soil. danger to persons and structures, or interference with construction operations Fill excavation in manner specified hereinbefore until a surface is o and as required to comply with safety laws. is even and continuous with adjoining grade and offers a firm, even final usage or placement of additional fill thereon. 31 2000 - EARTHWORK - 4 31 2000 - EAR

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

Projec

SECTION 31 2313

SUBGRADE PREPARATION & BASE MATERIAL

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide subgrade preparation and the base material installation complete,

including clearing, grading, excavation, filling and compaction and dewate B. Subgrade is that area on which concrete, aggregate base, or layer of any oth organic material is to be placed.

1.2 QUALITY ASSURANCE

- A. Reference Standards
- 1. Perform all work in accordance with all applicable laws, codes and reg required by the City of Brentwood, and County of Contra Costa.
- 2. Perform work in accordance to applicable sections of the Caltrans Stan Specifications.
- 3. Reference to "Caltrans Standard Specifications" shall mean the Specifications of the State of California, Business and Transportation Department of Transportation, CALTRANS.
- B. Related work specified elsewhere includes:
- Section 31 2000, Earthwork
- 2. Section 32 1216, Asphalt Concrete Paving
- 3. Section 03 1313, Concrete
- C. Stipulations
- 1. The finished surface of the subgrade, at any point, shall not vary more 0.05' above or below the elevation indicated on the drawings.
- 2. Finish Surface Tolerance: 1/4-inch maximum variation in 10 feet.

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ed areas during construction and until permanent neasures are installed. At cut slopes, place layer mesh and

ed, perform no further excavation or filling operations val and under observation of the Owner's Soils Engineer.

terial from source designated by the Contractor. on, excavation and placing and compacting of fill and

ections deemed necessary to ensure compliance with

e Owner on grading and certification of compliance with

to the DSA per CBC Section 1704A.

nd facilities for inspection.

er 48-hours prior to any fill or backfill operations. l inspections and tests due to noncompliance with

F SECTION 31 2000

ct No: 1716.00	, , ,	n School Aquatic and Tennis Mod. Project No: 1716.00 on High School District
backfilling is	J.	Dewatering:
onding of		1. Provide, operate, and remove dewatering equipment necessary to drain and
		keep excavations free of water under all circumstances.
use as fill or		2. Prevent surface water from flowing into excavation; promptly remove any water
		accumulated.
cormit placing		 Dewatering system shall remain in place until construction Work below
permit placing	3.3 FILL	groundwater table is completed.
d grades.	A.	All earthwork shall be in conformance with the soils report.
red in order to	В.	General Requirements:
of spaces or		1. Do not place fill or backfill until forms, rubbish and deleterious materials have
renching for		been removed, waterproofing measures completed, and areas have been
		approved by the Architect.
y the Owner's		2. Scarify surface of area to receive fill to 12-inch depth and until surface is free
of and in a		from ruts, hummocks or other uneven features. Disc or blade scarify surface until
of grading.		 free from large clods. Bring scarified material to proper moisture content and compact to specified
		density.
ells, vaults,		4. Spread material in layers not to exceed 8-inch depth before compaction. Sprinkle
w grade within		material with sufficient moisture to compact properly; permit material with
areas.		excess moisture to dry to proper water content. Thoroughly mix soil and water
		by blading and discing before compacting.
at" width or		 Place granular backfill material as adjacent backfill is being placed.
ubgrade at the		6. Adequately brace and shore footings, walls, etc., against which backfill is to be
		placed to prevent displacement or damage during placement. Do not remove
excavation as		shores or braces until permanent supports are in place and have attained their required strength.
il at the sides		 All fill material should be within 3-percent of optimum moisture contents as
		determined by ASTM 01557.
obtained which	C.	Minimum Compaction Requirements:
en subgrade for		1. Subgrade under interior slabs: 90-percent
		2. Subgrade under footings: 90-percent
RTHWORK - 5		31 2000 - EARTHWORK - 6
ect No: 1716.00		igh School Aquatic and Tennis Mod. Project No: 1716.00 nion High School District
		D. ASTM Standards.
	1.3	SUBMITTALS
		A. Provisions: Comply with Division 1 Requirements.
		B. Material list and product data of all items proposed to be provided under this
		Section.
		C. Certificates (certified analysis of certificate of compliance) signed by the material producer.
, ering.	1.4	PROJECT CONDITIONS
ther non-		
		A. Coordination: Coordinate this work with the work of other Sections to avoid delay and interference with other work.
		SOILS REPORT:
	1.5	SOILS REFORT.
	1.5	
gulations	1.5	A. A soil investigation report has prepared for the project by the firm of BSK, entitled:
-	1.5	
-	1.5	A. A soil investigation report has prepared for the project by the firm of BSK, entitled:1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty
gulations ndard Standard	1.5	 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018.
ndard	1.5	 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager
ndard Standard	1.5	 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all
ndard Standard		 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report.
ndard Standard		 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report. SOILS BORINGS A. Subsurface soils investigations have been made at the site and logs of the test holes
ndard Standard		 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report. SOILS BORINGS A. Subsurface soils investigations have been made at the site and logs of the test holes are available with the soils report. Such investigations have been made for the
ndard Standard n Agency,		 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report. SOILS BORINGS A. Subsurface soils investigations have been made at the site and logs of the test holes are available with the soils report. Such investigations have been made for the purposes of design only, and neither the Architect, the Owner, nor the Soils
ndard Standard		 A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High School Campus Expansions by BSK dated April 11, 2018. B. This report is available in the office of the Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report. SOILS BORINGS A. Subsurface soils investigations have been made at the site and logs of the test holes are available with the soils report. Such investigations have been made for the

responsibility for making his own investigations

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

- 1.7 PROJECT CONDITIONS
 - A. Coordination: Coordinate this work with the work of other Sections to avoid delay and interference with other work.
 - B. B. Protect excavations by shoring, bracing, sheeting, underpinning, or other methods as required to prevent cave-ins or loose dirt from entering excavations. Barricade open excavations and post warning fights at work adjacent to public streets and walks.
 - C. C Underpin adjacent structure(s), including utility service fines, which may be damaged by excavation operations.
 - D. Promptly repair damage to adjacent facilities caused by earthwork operations. Cost of repair at Contractor's expense.
 - E. Promptly notify the Inspector of unexpected subsurface conditions.
 - F. If during the course of operations, an area of pumping or otherwise unstable soil is encountered, the contractor shall immediately modify his operations in such a way as to limit the frequency and weight of vehicles traveling over the area and promptly notify the Inspector who will contact the Geotechnical Engineer for an evaluation.

1.8 EXISTING CONDITIONS

A. A topographic survey of the property has been included in the drawings for reference only. Upon beginning the work, Contractor represents that he has inspected the site and satisfied himself as to actual grades and levels and the true conditions under which the work is to be performed.

1.9 PROTECTION

- A. Furnish, place and maintain all supports, shoring and sheet piling which may be disturbed by earthwork operations.
- B. Maintain all benchmarks, monuments, and other reference points. If disturbed or destroyed, replace as directed.

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Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

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be Class 2, and free from vegetable matter or other deleterious substances. The percentage composition by weight of aggregate base shall conform to Section 26 of the Caltrans Standard Specifications.

PART 3 - EXECUTION

3.1 SUBGRADE PREPARATION

- A. Remove topsoil, stumps, roots, grasses and weeds to the satisfaction of the Geotechnical Engineer.
- B. Scarify subgrade to a depth specified in the geotechnical report.
- C. Remove all boulders, hardened material or rock encountered that is over 3 inches in size. The earth snail be uniform for the full depth and width of the subgrade.
- D. Lime treat the subgrade 12" deep per the Geotechnical Engineer's recommendations. Refer to the geotechnical report.
- E. The properly moisture condition and compaction per the geotechnical report.
- F. Relative compaction, maximum dry density, and optimum moisture content of fill materials shall be determined in accordance with ASTM Test Method D1557, "Moisture-Density Relations of Soils and Soil Aggregate Mixtures Using a 10-lb. Rammer and 18-in. Drop.
- G. The finished subgrade surface shall be firm and unyielding under the weight of a loaded water truck traveling over the surface.

3.2 AGGREGATE BASE

- A. Deliver to site as a unifonn mixture and spread each layer in one operation without segregation.
- 1. Class 2 Aggregate Base shall be readily compacted and spread with equipment that will provide a uniform layer conforming to the planned section, and as specified in Section 26 of the Caltrans Standard Specifications.
- B. The aggregate base shall be compacted to at least 95 percent relative compaction. 1. Proof roll and mark "soft spots" for additional compaction or correction. Proof rolling operations must be performed in the presence of a Geotechnical

- operations.

- creating a nuisance to adjacent areas.
- Protection of Existing Improvements
- at his own expense.

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Engineer.

C. Adequate protection measures shall be provided to protect workmen, passers-by,

and the site. Streets and adjacent property shall be fully protected throughout the

D. In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for working conditions on the job site,

including safety of all persons and property during performance of the work. This

requirement shall apply continuously and not be limited to normal working hours. Any construction review of the Contractor's performance conducted by the

Inspector is not intended to include review of the adequacy of the Contractor's

safety measures in, on, or near the construction site.

F. Adjacent streets, sidewalks, and property shall be kept free of mud, dirt, or similar nuisances resulting from earthwork operations.

G. Provide for surface drainage during the period of construction in a manner to avoid

H. Water as required to suppress dust nuisance.

1. Provide barricades, covering, or other types of protection necessary to prevent damage to existing improvements indicated to remain in place. Protect

improvements on adjoining properties. Repair damaged existing improvements to original condition as approved by authority having jurisdiction.

J. Provide erosion control measures as required.

K. Protection of Other Property: Excavation and other work over, under and adjacent to existing pipelines, cables, conduit runs or structures of any kind shall be procured in such a manner as not to interfere with the safe operation and use of such installations . Should any damage be incurred to existing facilities during the Contractor's operations, the Contractor shall immediately notify the Owner's Representative and authorities, and shall arrange for the immediate repair of same

Underground Obstruction: The locations of existing underground utilities and structures, insofar as they are known from information furnished by the respective utility companies and agencies, have been shown on the drawings. The Owner assumes no responsibility for the accuracy or completeness of said data, which is offered solely for the convenience of the Contractor.

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C. Unsatisfactory material shall be removed and repaired to the satisfaction of the Geotechnical Engineer.

END OF SECTION 31 231

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N. Pavement Restoration: Pavement, bases and compacted subgrade disturbed by trenching operations shall be replaced in an acceptable manner with materials equal to the adjacent compacted subgrade, bases and pavement for a minimum distance of 12" on each side of the trench, and shall conform to the requirements of these Specifications or to local ordinances governing such replacement.

1.10 FIELD QUALITY CONTROL

- A. Contractor shall provide adequate notice, cooperate with, provide access to the work, and assist testing agency and their representatives in execution of their function.
- When, during the progress of work, field tests indicate that installed compacted materials do not meet specified requirements, provide additional compaction until specified density is achieved, or remove and replace defective materials with new materials as directed by the Inspector. Cost of additional labor, materials, and testing to attain specified density at Contractor's expense.
- C. The Contractor shall engage a California Registered Civil Engineer or licensed Land Surveyor to perform field engineering.

1.11 TESTING

- A. Testing and Inspection: Testing shall be performed by a qualified independent testing laboratory under the supervision of a registered professional engineer, specializing in soils engineering.
- B. The Owner will direct, provide and pay for initial testing and inspection during operations
- C. Provide and pay for re-testing and inspection during operations. Laboratory and

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SECTION 32 1216

ASPHALT CONCRETE PAVING

PART1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - Work Included: Furnish all labor, materials, equipment, facilities, transportation and Α. services to complete all asphaltic concrete paving operations including the preparation and paving of new areas, paving overlays, patch paving of all existing paved areas disturbed by construction and related work as shown on the drawings and/or specified herein.
 - Related Sections include:
 - Section 31 2000: Earthwork
 - 2. Section 31 2333: Trenching and Backfilling
 - References: C.
 - Sections and chapters of Standard Specifications mentioned herein refer to Standard Specifications, State of Californian, Department of Public Works, Division of Highways, Latest Edition.

1.3 SUBMITTALS

A. Provide owner with complete materials listing for approval. Materials certificates shall be signed by the material producer and the Contractor, certifying that each material item complies with or exceeds specified requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- Comply with pertinent provisions of Section, Material, Equipment and Substitutions. Engineering fabrics shall be furnished in protective covers capable of protecting the Β.
- fabric from ultraviolet rays, abrasion, and water.

1.5 PROJECT CONDITIONS

Weather Limitations Α.

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inspection service shall be acceptable to the Owner.

- D. Where reference is made to relative compaction, it shall be the in-place dry density of soilexpressed as a percentage of the maximum dry density of the same material, determined by the ASTM 01557 laboratory test procedure. Optimum moisture is the water content that corresponds to the maximum dry density.
- E. For structural fills under footings, slabs or pavements, determine moisturedensity relationships in accordance with ASTM 01557.
- F. Plasticity Index: ASTM 4318-98.

1.12 GENERAL REQUIREMENTS

- A. When rain is forecast, temporary measures to protect areas of the exposed subgrade from saturation by rainfall or runoff shall be taken. These include, but are not limited to, covering grading and sloping of subgrade surfaces to prevent ponding, sealing disturbed, uneven subgrade, surfaces with a smooth drum roller, grading and excavating diversionary swales, trenches or detention basins.
- B. Failure by the Contractor to comply with the above requirements to take reasonable and adequate measures or exercise sound engineering and construction practices to protect the work from damage. All repair work shall be performed at no additional cost to the Owner.

PART 2 - MATERIALS

2.1 AGGREGATE BASE - CLASS 2

A. Aggregate base shall be Class 2, and free from vegetable matter or other deleterious substances. The percentage composition by weight of aggregate base shall conform to Section 26 of the Caltrans Standard Specifications.

2.2 RECYCLED AGGREGATE BASE - CLASS 2

B. Subject to the approval of the Geotechnical Engineer, recycled aggregate base shall

31 2313 SUBGRADE PREPARATION & BASE MATERIAL - 6

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- 1. Do not lay base course on muddy subgrade, during wet weather, or when atmospheric temperature is below 35 degrees Fahrenheit.
- Do not apply asphaltic surfacing on wet base, during hot weather, or when atmosphere temperature is below 40 degrees Fahrenheit
- Grade Controls

В.

Establish and maintain required lines and grades, including crown and cross slope.

1.6 PERFORMANCE REQUIREMENTS

- Qualifications of asphalt concrete producer: Use materials that are furnished by bulk Α. asphalt concrete producers regularly engaged in production of hot-mix, hot-laid asphalt concrete.
- Applicator qualification: Company specializing in the application of asphalt concrete paving.
- Asphalt concrete paving shall show no evidence of cracking, uneven settlement or C. improper drainage. Contractor will be responsible for correcting work displaying such conditions.
- D. Allowable tolerances: Finish surface shall be true to established elevations with 1/8" in ten feet as measured from a 10-foot straight edge in any direction.

PART 2 - PRODUCTS

- 2.1 STANDARDS
- Reference State of California design methods of flexible pavements. Α.
- 2.2 MATERIALS
 - Aggregate Base: Aggregate base material and method of placing shall conform to Section Α. 26 of the State Specifications excepting modifications as herein specified. The aggregate base shall conform to the grading providing for 3/4 inch maximum grading as shown herein.

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	Percentage Passing
Sieve Size	Sieve By Weight
	3/4" Max.
2″	100
1-1/2"	100
3/4"	90-100
No. 4	35-55
No. 30	10-30
No. 200	2-9

Asphaltic Concrete: Shall be Type "B" in conformance to Sections 39 and 92 of the State of California Specifications, except as herein modified:

- Aggregate for Asphaltic Concrete: Shall be a 1/2 inch maximum gradation for new pavement areas, medium grade.
- Asphalt Emulsion: Shall conform to Section 94 of the State Specifications. C.
- Redwood Header: All headerboards shall be two (2) inch by eight (8) inch. The D. headerboards shall be held in place with two (2) inch by six (6) inch by twenty-four (24) inch, or long enough to extend 12 inches into solid ground, whichever is greater.

PART 3 - EXECUTION

3.1 PLACEMENT OF AGGREGATE BASE

- The Contractor shall proof roll subbase prior to placement of aggregate base. If soft areas A. are encountered, the Contractor shall excavate backfill with aggregate base or suitable material and compact to 95%. The Contractor shall remove any loose material or debris. Prior to correction of any soft areas identified by proof rolling, a Change Order must be authorized by the Owner.
- Aggregate Base Method of Placing: The Contractor shall conform to Section 26 of the State Specifications excepting modification as herein specified.
- Aggregate Base shall be placed in 6" maximum lifts and each lift will be compacted to 95% relative compaction.

32 1216 - ASPHALT CONCRETE PAVING - 3

Liberty High School Aquatic and Tennis Mod. Project No: 1716.00 Liberty Union High School District

PRODUCT DELIVERY, STORAGE AND HANDLING 1.8

- Supply ready mixed concrete throughout. Batch mix and transport in accordance with A. ASTM C-94, "Specifications for Ready Mixed Concrete."
- Mix and deliver concrete in quantities that will permit immediate use only. B.
- C. Indiscriminate addition of water for any reason will be cause for rejection of the load.2.

PART 2 - PRODUCTS

2.1 FORMWORK MATERIALS

- Forms shall be wood. Α.
 - 1. Plywood: APA Plyform, Grade B-B, 5/8-inch thickness minimum.
 - 2. Lumber: Douglas fir, "Standard" grade or better (grade marks not required). 3. Plywood: 5/8-inch thickness minimum. Use overlaid plywood complying with U.S. Product Standard PS-1 "A-C or B-B High Density Overlaid Concrete Form", Class 1. Panels to receive specified form sealer to ensure uniform finish of exposed surfaces
- Form Coatings: Knox-Crete, or equal. В.
- C. Form Ties: Burke "Penta-Tie," or equal, cone and rod type with 1-inch break-back. Do not use form ties on exposed concrete of seat walls.

2.2 REINFORCING MATERIALS

- Bar Reinforcement ASTM A615.
- 1. #3 and smaller: Grade 40.
- 2 #4 and larger: Grade 60.

2.3 CONCRETE MATERIALS

- A. Portland Cement: ASTM C150, Type II.
- B. Aggregate: ASTM C33.
- 1. Coarse Aggregate: Normal weight; 3/4-inch maximum size; clean, uncoated, crushed aggregate, free of materials which cause staining or rust spots. Fine Aggregate: Clean, natural sand.
- C. Water: Clear and potable, free from deleterious impurities.
- D. Admixtures: Admixtures are optional, must be compatible with color pigments where required. Any proposed admixture shall comply with State Section 2603(b) 5 of Part 2, Title 24 CCR. Accelerating admixtures are not permitted.

	D.	The material will be dep
		section of material within
		Deposition will be by sp
		material. The material sc
		which in the opinion of t
		It shall then be immedia
		segregation of material,
		and any material, in the
		shall be removed from th
		uniformity of the materia
.2	PLAC	EMENT OF FRAMES, CO
	А.	The Contractor shall set
		and grates of all manhol
		and other appurtenant s
.3	ASPH	ALT CONCRETE
	A.	The Asphalt Concrete m
		Specifications, except as
	B.	Prior written approval o
		concrete without the use
		have a density of not less
		as determined in the lab
.4	ASPH	ALT EMULSION
	А.	Asphalt Emulsion metho
		Specifications.
.5	REDV	VOOD HEADER
	A.	Stakes shall be of sound
		and elsewhere, spaced n
		Headerboards shall have
		or base rock.
	B.	The top edges of the hea

Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

2.4 CONCRETE MIXES

- otherwise approved.

2.5 ANCILLARY MATERIALS

- A. Expansion Joint Material
 - 1. Fiber Expansion Joint: A non-extruding resilient filler, saturated with high quality bituminous materials having preserving characteristics. W. R. Meadows or accepted equal. Conform to ASTM- 01751-83. Include Joint Sealant
- Curing Compound: ASTM C309, Water-base type, free of permanent color, oil or wax, or B. accepted equal. Curing compound shall be compatible with color pigments.
- Concrete Sealer: As manufactured by L. M. Scofield Co. or silicone-based, non-staining product such as Siloxane as manufactured by Prosoco and available from White Cap (415) 626-3750 and as accepted by Architect. Concrete Sealer shall be compatible with color pigments.
- Combination Curing Compound Concrete Sealer: W. R. Meadows Vocomp-20, (800-342-D. 5976) or accepted equal. Combination Curing Compound. Combination Curing Compound Concrete Sealer shall be compatible with color pigments.
- Joint Sealant: W. R. Meadows or Sonneboum 2-part joint sealant or Sikaflex-1a elastomeric joint sealant or equal product. Available from Sika Corporation, Hayward (510) 487-2294. Color shall be as selected by Landscape Architect.
- Color of Concrete: Pigments for integral colored concrete as manufactured by Davis Colors, 800-356-4848, applied at manufacturer's specified rates of application, or accepted equal

2.6 WATERPROOFING

Products Corp or accepted equal.

posited on the subgrade in such a manner as to provide a uniform in five percent tolerance of the pre-determined required depth. preader box or bottom dump truck to prevent segregation of the o deposited on the subgrade shall have sufficient moisture, the Soils Engineer, is adequate to prevent excessive segregation. ately spread to its planned grade and cross section. Undue excessive drifting or spotting of material will not be permitted opinion of the City and Owner, to be unsuitably segregated, the subgrade or completely reworked to provide the desired

ial.

OVERS AND GRATES

t and adjust to finish grade all new and existing frames, covers, bles, drop inlets, drain boxes, valves, cleanouts, electrical boxes structures prior to placement of asphaltic concrete.

nethod of placing shall conform to Sections 39 and 92 of the State s herein modified.

of the City is required before the Contractor may place asphalt e of paving machine. After compaction, the asphalt concrete shall ss than 95 percent (95%) of the maximum theoretical unit weight, boratory by Test Method No. Calif. 304.

od of placing shall conform to Sections 37, 39 and 94 of the State

l material, neatly pointed, driven vertically, located at butt joints not over 4 feet on center and securely nailed to the headerboards. e a continuous beading on undisturbed earth or compacted earth

B. The top edges of the headerboard shall conform to the line and grade of the pavement.

END OF SECTION 32 1216

32 1216 - ASPHALT CONCRETE PAVING - 4

Project No: 1716.00

A. Concrete mixes shall be accepted and shall be in accordance with CalTrans Standard Specifications Section 90. Unless otherwise noted, mix shall be Class "A," 3,000 psi, Type II Portland cement and 3/4- inch maximum aggregate.

Lamp Black: Concrete for exposed "natural colored" concrete shall be darkened by the addition of accepted agents at the mixer. The proportion of lampblack or other accepted colorant, to a great extent dependent on the color of the cement used in the mix, shall be that required to property darken the concrete to reduce glare, and shall be subject to the approval of the Project Inspector or as required by Landscape Architect. Provide mockups with a ratio of one pound of lamp black for each cubic yard of concrete or as

A. Subseal-60 Self-adhering Waterproofing Membrane available from MFM Building

SECTION 32 1313

CONCRETE PAVING

PART1 - GENERAL

1.1 DESCRIPTION

A. Provide Portland cement concrete site work complete. including the following principal items:

1. Concrete work shown on Landscape Drawings.

- B. Related requirements include:
 - 1. Section 31 2000, Earthwork
- 2. Section 31 2313, Subgrade Preparation and Base Material
- Section 32 1216, Asphalt Concrete Paving

1.2 QUALITY ASSURANCE

- A. Reference and Standards
 - 1. Perform work in accordance with all applicable laws. codes and regulations required by City of Brentwood and County of Contra Costa and the State of California.
 - 2. Reference to "Standard Specifications" shall mean the current Standard Specifications of the State of California, Business and Transportation Agency, Department of Transportation, CALTRANS.
- 3. The American Concrete Institute (ACI): "Manual of Concrete Practice," Parts 1, 2 and
- B. Stipulations
 - Finish Surface Tolerance: 1/4-inch maximum variation in 10 feet.

1.3 TESTS

- A. The Project Inspector will select a qualified testing laboratory to take samples for testing during the course of the work as considered necessary. The Owner will pay costs for such tests. Contractor shall cooperate in making tests and shall be responsible for notifying the designated laboratory in sufficient time to allow taking of samples at time of pour.
- B. Should tests show that concrete is below specified strength, Contractor shall remove all such concrete, as directed by the Project Inspector. Full cost of removal of low strength concrete, its replacement with concrete of proper specified strength and testing, shall be borne by Contractor.

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Liberty High School Aquatic and Tennis Mod.

PART 3 - EXECUTION

3.1 GENERAL REOUIREMENTS

- Install all concrete work true to line and grade as indicated on the drawings.
- B. Correct irregularities to the satisfaction of the Project Inspector.

3.2 PREPARATION

- A. Take every precaution to obtain a subgrade of uniform bearing power by compaction to provide a firm base.
- B. Subgrade shall be kept moist and shall not be allowed to dry out before placement of concrete. Place no material on muddy subgrade.
- C. Aggregate base, where indicated, shall be placed and compacted in conformance with CalTrans Standard Specifications 26-1.04 and 26-1.05.
- D. Obtain acceptance of subgrade from Project Inspector prior to placing steel and concrete.

3.3 FORMS

- A. Forms shall be constructed in accordance with ACI 347 and shall be of sufficient strength and sufficiently tight to prevent visible distortion or leakage of mortar and fines.
- B. Forms for exposed surfaces shall be designed to protect intended finish. Deflection of facing material between studs shall not exceed 0.0025 of the span. Facing material and pattern of joints shall be as accepted by the Architect.
- C. For vertical surface of wall footings below grade, clean-cut trench may be used in lieu of form if character of soil will permit installation without sluffing and width of concrete is increased at least 1 inch beyond indicated dimension of each face poured against earth.
- D. Curb and pavement edge forms shall extend full depth of concrete. Curves shall be formed with flexible metal or wood made up of thin laminations. Curve forms shall extend one stake space straight beyond tangent point.
- E. Maintain forms within the following tolerances.
- 1. Top of Form: Plus or minus 1/8 inch in 10 feet and no abrupt variations; at required
- elevation to plus 3/8 inch. 2. Face of Form: Plus or minus 1/4 inch in 10 feet longitudinal and no abrupt
- variations; perpendicular to surface plus or minus 1/8 inch. F. Obtain approval of formwork from Project Inspector prior to placing concrete.
- Forms may be reused upon cleaning and coating with parting compound to ensure separation from concrete without damage.

Liberty Union High School District

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1.4 COORDINATION

A. Coordinate items of other trades. Contractor shall be responsible for the proper installation of all accessories embedded in the concrete and for the provision of holes, openings, etc., necessary to the execution of the work of the trades.

1.5 SOILS REPORT:

- A. A soil investigation report has prepared for the project by the firm of BSK, entitled: 1. Geotechnical Investigation Report and Geologic Hazard Assessment, Liberty High
- School Campus Expansions by BSK dated April 11, 2018.
- B. This report is available in the office of the Landscape Architect and the Construction Manager for inspection by the Contractor. Unless otherwise specified, it is intended that all work be performed in accordance with the provisions of these report.

1.6 SOILS BORINGS

Subsurface soils investigations have been made at the site and logs of the test holes are available with the soils report. Such investigations have been made for the purposes of design only, and neither the Landscape Architect, the Owner, nor the Soils Engineers guarantee adequacy or accuracy of the data, or that data are representative of all conditions to be encountered. Such information is made available for general information only and shall not relieve the Contractor of the responsibility for making his own investigations

1.7 SUBMITTALS

- A. Submittals per Division 1 requirements
- B. The Contractor's Testing Laboratory's certificate of compliance.
- C. The Contractor shall submit:
- 1. Certified copies of mix designs for each concrete class specified including
- compressive strength test reports. Certification that materials meet requirements specified.
- 3. Certification from vendor that samples originate from and are representative of each lot proposed for use.
- D. Mock-ups of all materials under this Division shall be supplied for testing as requested by the Architect
- Provide mockup of all concrete finishes, color and joints (with curing compound if any to be used) indicated on the drawings. Accepted mock-ups shall be kept at the job site to serve as a prerequisite for all finishes.

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Project No: 1716.00

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Project No: 1716.00

After concrete is placed, the following minimum times shall elapse before removal of forms.

- Footing sides: 24 hours.
- Mow bands, curbs and pads: 48 hours.

3.4 REINFORCEMENT

- A. All concrete shall be steel reinforced unless specifically noted to be "not reinforced." If no reinforcement is shown, reinforce in same manner as that shown in similar places.
- Fabricate and place reinforcement as indicated on the Drawings and in accordance with B. ACI "Detailing Manual" SP-66. No reinforcement shall be placed prior to distribution of the accepted shop drawings.
- C. Secure reinforcement in position by suitable supports and by wiring at intersections with tie wire. Supports shall be of sufficient number and strength to resist crushing or displacement under full load. Metal shall not extend to surface of concrete.
- D. At time of placing concrete, reinforcing shall be free of excessive rust, mill scale, or other bond reducing matter. Immediately before placing concrete. check and adjust position, support and anchorage.

3.5 MIXING AND PLACING CONCRETE

Conform to applicable requirements set forth in CalTrans Standard Specifications Section Α.

3.6 JOINTS AND GROOVES

- A. Plane of joints shall be perpendicular to surface. Where new pavements join existing, joints shall align.
- Install joint sealant at fiber expansion joints per manufacturer's specifications.
- C. Construction Joints: Place construction joints at the end of pours and at locations where placement operations are stopped for a period of more than one half hour, except where such pours terminate at expansion joints.
 - Construction joints shall be keyed with formed tongue and groove.
- 2. Tool concrete edge both sides of construction joint.
- D. Saw Cut Joints: Begin as soon ai; concrete has hardened enough to support saw and operator, and to allow cutting without raveling, or deforming the surface finish. Use a concrete cutting blade. Form a smooth uniform joint 1/8" wide, to 1" depth unless shown otherwise. Joints shall be cut within 48 hours of pour. Hold saw cuts 1/2" from edge of concrete.

- E. Score Joints: Form in the fresh concrete using a jointer to cut the groove so that a smooth uniform impression is obtained to 1" depth unless shown otherwise. All joints shall be struck before and after brooming. Tool concrete both sides of joint.
- F. Expansion Joints and Edging: Provided at the location and intervals as shown on the drawings, and at all locations where concrete paving abuts buildings, curbs or other structures, and not greater than 20 feet on center. Approved joint material shall be placed with top edge below the paved surface and shall be securely held in place to prevent movement. Joint and other edges shall be formed in the fresh concrete using an edging tool to provide a smooth uniform impression. All edges shall be struck before and after brooming.

3.7 FINISHING

- Mow bands, paving and other exposed work.
 - Surface Finishes
 - a. Float Finish (typical preliminary finishing for slabs to receive other finishes): The surface of the slab shall be screeded and all surface water and laitance removed. Floating shall be started as soon as the screeded surface has stiffened sufficiently. Floating shall be performed by hand using a wood float and shall be the minimum necessary to produce a relatively smooth, level, even-textured surface.
 - b. Medium Broom Finish: After the slab has been float finished as described above, the surface shall be uniformly directional textured by coarse stable broom to match accepted mock up to be a non-slip finish.
 - c. Sandblast Finish: Perform in as continuous an operation as possible, utilizing the same work crew to maintain continuity of finish to match accepted mock up. Use abrasive grit of the proper type and gradation to expose the aggregate and surrounding matrix surfaces to match mock up panel, as follows:
 - Medium Cut: Approximately 1/8" to 3/16" depth.
 - 2) Heavy cut: Approximately 1/2" to 3/4" depth.
 - 3) Blast corners and edge of patterns carefully, using backup boards in order to maintain a uniform corner of edge line.
 - 4) Use same nozzle, nozzle pressure and blasting technique as used for mock up panel.
 - 5) Maintain control of abrasive grit and concrete dust in each area of blasting. Clean up and remove all expended abrasive grit, concrete dust and debris at the end of each day of blasting operations.

3.8 DEFECTIVE CONCRETE

A. If any concrete work is not formed as indicated, is under strength concrete, if concrete is out of line, level or plumb, or showing objectionable cracks, honeycomb, rock pockets, voids, spelling or exposed reinforcing, it shall be removed, repaired or replaced as directed by the Landscape Architect.

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Liberty High School Aquatic and Tennis Mod. Liberty Union High School District

3.9	CUR	ING
	Α.	Cure exposed concrete in a
	В. С	Only water or curing compo curing concrete.
3.10	CON	CRETE SEALING
	Α.	Seal all exposed surfaces a
A.11	WAT	ERPROOF NG
	А.	Where soil is backfilled ag specifications. Hold 2" bel
	B.	During construction, wash unavoidable.
3.12 0	LEAN	UP : Per Division 1 require
	B.	Upon completion, clean ex used, must be preceded ar

accordance with CalTrans Standard Specifications Section 90.

ounds that impart no permanent color or gloss shall be used for

according to manufacturer's specifications.

gainst seat walls install waterproofing per manufacturer's low finish grade.

sh off work as quickly as possible when stains or splotches are

ements.

exposed surfaces carefully. Brushing and cleaning solution, if and followed with a through rinsing of clear water. No sandblasting will be allowed to clean surfaces.

C. Remove from premises; equipment, debris and surplus material needed for, or resulting from, this work. Remove all concrete waste from planting areas and legally dispose of it.

D. All work shall be left in a condition satisfactory to the Landscape Architect.

END OF SECTION

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