SCUSD Bret Harte ES

Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818 Sacramento Unified School District

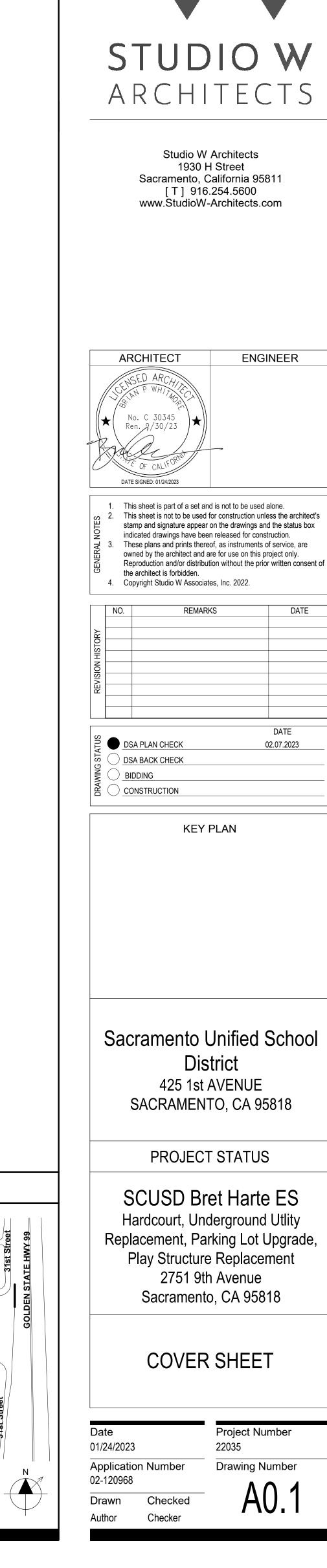
> DSA File No. 34-53 App. No. 02-120968 PTN. 67439-430

	DSA REQUIREMENTS	DEFERRED APPROVALS	PROJECT DESCRIPTION
1. 2. 3.	ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR). AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS AFFECTING	NONE	APN: 013-0273-001 THE PROJECT INCLUDES REGRADING AND REPLACEMENT OF HARDCOURT SURFACES, PARKING LOT UPGRADE AND PLAY STRUCTURE REPLACEMENT.
J.	FLS, SSS, AND/OR ACS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND DSA IR A-6.	WORK EXEMPT PER DSA 103-22	ADD ALTERNATES
4.5.6.7.	A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. A COPY OF PART 1 TO PART 5 OF TITLE 24 SHALL BE KEPT AND BE AVAILABLE IN THE FIELD DURING CONSTRUCTION. DSA SHALL BE NOTIFIED OF THE START OF CONSTRUCTION AND PRIOR TO	SOILS: 1. SHALLOW FOUNDATIONS CONCRETE/MASONRY: 1. POST INSTALLED ANCHORS 2. CONCRETE BATCH PLANT INSPECTION 3. NON-BEARING NON-SHEAR MASONRY WALLS 4. EPOXY SHEAR DOWELS	1. SHADE STRUCTURE - POLIGON - PC# 02-119075
8. 9.	THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24, CCR THE DIVISION OF THE STATE ARCHITECT IS EXEMPT FROM ARBITRATION OR MEDIATION PROCEDURES. SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT IS PER SECTION 4-334, PART 1, TITLE 24, CCR ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, CCR:	WELDING: 1. SOLID-CLAD AND OPEN MESH FENCES, GATES	STATEMENT OF GENERAL CONFORMANCE
11. 12. 13. 14.	 VERIFIED REPORTS PER SECT 4-336; PART 1, TITLE 24 CCR DUTIES OF ARCHITECT PER SECT 4-331, 4-341; PART 1, TITLE 24 CCR DUTIES OF CONTRACTOR PER SECT. 4-343; PART 1, TITLE 24 TESTING AND INSPECTION: INSPECTOR APPROVED BY DSA AS PER SECT. 4-333(D); PART 1, TITLE 24, CCR TESTS AND TESTING LABORATORIES PER SECT 4-335 SPECIAL INSPECTION PER SECT. 4-333(C) CHANGES IN LEVEL FOR FLOOR FINISHES SHALL CONFORM WITH CBC SECTION 1124B.2 AND 1124B.3. ALL TESTS TO CONFORM TO REQUIREMENTS OF SECTION 4-335; PART 1, TITLE 24, CCR TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335; PART 1, TITLE 24, CCR AND THE DISTRICT SHALL EMPLOY AND PAY THE DSA ACCEPTED LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B). THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK 	APPLICABLE STATE CODES AND REGULATIONS WITH LATEST AMENDMENTS AND SUPPLEMENTS: 1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR 2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 IBC & CALIFORNIA AMENDMENTS) 3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE & CALIFORNIA AMENDMENTS) 4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 UNIFORM MECHANICAL CODE & CALIFORNIA AMENDMENTS) 5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 UNIFORM PLUMBING CODE & CALIFORNIA AMENDMENTS) 6. 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CBSC 7. 2022 CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 CCR 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR (2018 INTERNATIONAL	FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS Application No. 02-120968 File No. 34-53 [X] The drawings or sheets listed on the cover or index sheet (all C drawings) [] 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: 1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and 2. coordination with my plans and specifications and is acceptable for incorporation into the
17.	OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR) INSPECTOR OF RECORD REQUIREMENTS: A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24; PART 1 AND IN ADDITION, SHALL BE STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8. B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT.	FIRE CODE & CALIFORNIA AMENDMENTS) 9. 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE & CALIFORNIA AMENDMENTS) 10. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE PART 11, TITLE 24 11. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR 12. TITLE 8 CCR, CH. 4, SUB-CH. 6 - ELEVATOR SAFETY ORDERS 13. TITLE 19 CCR, PUBLIC SAFETY, SFM REGULATIONS APPLICABLE FEDERAL CODES AND STANDARDS: 14. AMERICANS WITH DISABILITIES ACT (ADA), TITLE 11 15. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) or ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) APPLICABLE REFERENCED STANDARDS: 16. NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED), 2022 EDITION 17. NFPA 24, PRIVATE FIRE MAINS (CA AMENDED), 2022 EDITION 18. NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED), 2022 EDITION 19. NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES, 2019 EDITION 10. NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2018 EDITION	construction of this project. 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]) I find that: [X] All drawings or sheets listed on the cover or index sheet [] This drawing or page [X] is/are in general conformance with the project design and [X] has/have been coordinated with the project plans and specifications O1.31.2023 Date Architect or Engineer designated to be in general responsible charge. Brian P. Whitmore Print Name C 30345 License Number Description of this project. Shall not be construed as relieving me of my rights, duties of the Education Code and Sections 4-336, 4-341 and 8-1138 of the Education Code and Sections 4-36, 4-341 and 8-1138 of the Education Code and Sections 4-36, 4-341 and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-36, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-316, and 8-1138 of the Education Code and Sections 4-317, and 8-1138 of the Education Code and Sections 4-317, and 8-1138 of the Education Code and 8-1138

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2022 CFC (SFM) CHAPTER 80. SEE CHAPTER 80 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPÁ STANDARDS.

STATEMENT OF GENERAL CONFORMANCE AND SIGNATURE BLOCK PER IR A-18

	DRAWING INDEX	PROJECT DIRECTORY
SHT.		CLIENT
	DESCRIPTION	
NO.	DESCRIPTION	SACRAMENTO CITY UNIFIED SCHOOL
SENERAL		DISTRICT
A0.1 A0.2	COVER SHEET GENERAL NOTES	CHRIS RALSTON
A0.2	ARCHITECTURAL SYMBOLS AND ABBREVIATIONS	425 1st Avenue
A0.5	CODE ANALYSIS SITE PLAN	Sacramento, CA 95818 [T] (916) 395-3970
		chris-ralston@scusd.edu
CIVIL		
C0.1 C0.2	CIVIL GENERAL NOTES AND ABBREVIATIONS TOPOGRAPHY SURVEY	
C0.3	UTILITY SURVEY	
C1.1	DEMOLITION PLAN	<u>ARCHITECT</u>
C1.2	UTILITY DEMOLITION PLAN	STUDIO W ARCHITECTS
C1.3 C2.1	ENGINEERED FILL PLAN GRADING PLAN	
C2.1	GRADING PLAN GRADING PLAN	BRIAN WHITMORE, PRINCIPAL
C2.3	GRADING PLAN	1930 H STREET SACRAMENTO, CA 95811
C3.1	UTILITY PLAN	[T] (916) 254-5600
C4.1	PAVING PLAN	BrianW@StudioW-Architects.com
C5.1 C6.1	STRIPING PLAN EROSION CONTROL PLAN	 Chris Garcia
C6.1	DETAILS AND SECTIONS	1930 H STREET
C7.2	DETAILS AND SECTIONS	SACRAMENTO, CA 95811
C7.3	DETAILS AND SECTIONS	[T] (916) 254-5614 ChrisG@StudioW-Architects.com
	_	
ANDSCAPE P1	E PLAYGROUND SITE PLAN	Diane Hanamoto
P2	PLAYGROUND SITE PLAN PLAYGROUND ENLARGEMENTS	1930 H STREET SACRAMENTO, CA 95811
P3	PLAYGROUND ENLARGEMENTS	[T] (916) 254-5617
P4	PLAYGROUND ENLARGEMENTS	DianeH@StudioW-Architects.com
P5	PLAYGROUND ENLARGEMENTS	
ARCHITECT	ΊΙΡΔΙ	
A1.1	SITE PLAN OVERALL	CIVIL ENGINEER
A7.1	TOILET ROOM PLANS AND ELEVATIONS	Warren Consulting Engineers, Inc.
A10.10.2	SPECIALTIES	
PLUMBING		Anthony Tassano 1117 Windfield Way, Suite 110
P0.1	PLUMBING SCHEDULES, LEGENDS AND NOTES	ElDorado Hills, CA 95762
P1.1	PLUMBING OVERALL SITE PLAN	[T] (916) 985-1870 anthony@wceinc.com
P7.1	PLUMBING FLOOR PLAN	
NIADE OTO	NICTURE	
SHADE STR RAM1.0	ORDER FORM	
RAM1.1	NOTES AND SPECIAL INSPECTIONS	LANDSCAPE ARCHITECT
RAM2.3	FOUNDATION PLAN SPREAD PAD -RAM 30	MSLA Landscape Architecture, Inc.
	FRAMING PLAN - RAM 30	
	FRAME CONNECTION DETAILS - RAM 30	Michael Shular, ASLA, CID, Leed AP 306 Canyon Falls Drive
RAM4.3 RAM5.1	SECTION DETAILS - RAM30 ARCHTECTURAL VIEWS - RAM 30	Folsom, California 95630
	ROOF CONNECTION DETAILS	O: 916.989.3372
RAM7.0	MISC. DESIGN OPTIONS	M: 916.809.3424 mshular@msladesign.com
	ELECTRICAL OUTLETS	
OTAL SHE	ET COUNT: 41	
		SPECIFICATION WRITER
		Byun Partners
		David Byun, CCS, CCCA, LEED AP, <u>SCIP</u>
		1205 Hazel Place
		Costa Mesa, CA 92626
		iPhone (310) 800-0353 david@byunpartners.com





ARCHITECT	ENGINEER
No. C 30345 Ren. 9/30/23 ★ No. C 30345 Ren. 9/30/23	

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	REVISION HISTORY			
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$\frac{3}{2}$	DSA PLAN CHECK	02.07.2023
DRAWING STALUS	DSA BACK CHECK BIDDING CONSTRUCTION	

VICINITY MAP

Bret Harte

Eelmentary

School

8th Avenue

	OENEDAL NOTES
DRAWING DISCIPLINE PREFIX	GENERAL NOTES
A. ARCHITECTURAL C. CIVIL D. INTERIOR DESIGN / FURNITURE E. ELECTRICAL FA. FIRE ALARM FP. FIRE PROTECTION / SPRINKLER SYSTEM FS. FOOD SERVICE L. LANDSCAPING M. MECHANICAL P. PLUMBING S. STRUCTURAL T. TECHNOLOGY	 PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. BIDDERS SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS. THERE WILL BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1 THE GENERAL BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING AGENCIES IN ORDER TO PERFORM THE WORK. THE FINAL LOCATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL BOARDS, FIXTURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. DEFINITIONS A. "TYPICAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS OTHERWISE NOTED. B. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS. C. "PROVIDE" MEANS TO FURNISH AND INSTALL.
A0. GENERAL INFORMATION A1. SITE PLANS A2. FLOOR PLANS A3. REFLECTED CEILING PLANS A4. ROOF PLANS A5. EXTERIOR ELEVATIONS A6. BUILDING SECTIONS A7. ENLARGED PLANS A8. INTERIOR ELEVATIONS A9. SCHEDULES A10. CONSTRUCTION DETAILS	D. "FURNISH" MEANS TO FURNISH AND OTHERS WILL INSTALL. DIMENSIONING RULES: A. ALL HORIZONTAL DIMENSIONS SHALL BE TO FACE OF STUD OR TO CENTERLINE OF COLUMN GRID LINE, U.O.N B. DIMENSIONS NOTED "CLEAR", "CLR", OR "MINIMUM" MUST BE PRECISELY MAINTAINED. C. DIMENSIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED. D. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OTHERWISE NOTED. E. DO NOT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE LOCATED, DO NOT PROCEED WITH THE WORK WITHOUT THE ARCHITECT'S APPROVAL. F. DIMENSIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. G. VERIFY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS WITH THE MANUFACTURER PRIOR TO PROCEEDING WITH CONSTRUCTION. 7. PROVIDE REQUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL MOUNTED FIXTURES, ACCESSORIES AND EQUIPMENT. 8. VERIFY AND COORDINATE WALLS THAT MAY REQUIRE NON-TYPICAL THICKNESS OR FRAMING DUE TO ELECTRICAL, MECHANICAL, PLUMBING, STRUCTURAL AND/OR EQUIPMENT REQUIREMENTS. 9. ALL GLAZING SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND CHAPTER 24, CBC. 10. ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER MATERIALS, DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS OPERATIONS AT THE CONCLUSION OF THE INSTALLATION. HE SHALL LEAVE ALL AREAS CLEAN AND FREE FROM DUST. 12. HAZARDOUS MATERIALS: THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, DISPOSAL OF OR EXPOSURE OF PRESONS TO ASBESTOS OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. PROFESSIONAL SERVICES RELATED OR IN ANY WAY
DETAIL DRAWING CODE	CONNECTED WITH THE INVESTIGATION, DETECTION, ABATEMENT, REPLACEMENT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS, MATERIALS, OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR TOXIC MATERIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT. 13. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE
	EXISTING UNDERGROUND UTILITIES. 14. ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR
THE DIVISION PREFIX NUMBERS ARE THOSE IDENTIFIED BY THE 48 DIVISION GROUPING SYSTEM OF MASTERFORMAT AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI) AND SHALL NOT BE SOLELY REPRESENTATIVE OF REQUIREMENTS FOR ANY ONE DIVISION. THOSE DIVISIONS NOTED AS BEING OMITTED ARE NOT APPLICABLE OR ARE INCLUDED UNDER DISCIPLINE DRAWINGS. IN CASE OF DISCREPANCY BETWEEN THE INDEX AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.	ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT. 15. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIR/WATER TIGHT. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A PROFESSIONAL AND FINISHED APPEARANCE. 16. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER USE CONTROL/ OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN CONTRACT PRICE OR TIME. 17. THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE. THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES. 18. ALL WORK SHALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS WHICH GOVERN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. 19. THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT PROJECT MANUAL PUBLISHED IN BOOK FORM, COMBINED, THEY ARE THE "CONTRACT DOCUMENTS". 20. NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS. 21. CONSTRUCTION MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE OR DETERIORATION. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK. SECURITY OF MATERIALS ARE THE SOLE RESPONSIBILITY OF CONTRACTOR. 22. ALL EQUIPMENT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS, COORDINATE MECHANICAL.
MASTERFORMAT NUMBERS AND TITLES AS PUBLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI). DIVISION 01 PROCUREMENT AND CONTRACTING REQUIREMENTS DIVISION 02 EXITING CONDITIONS DIVISION 03 CONCRETE DIVISION 05 METALS DIVISION 06 WOODS, PLASTICS, AND COMPOSITES DIVISION 07 THERMAL AND MOISTURE PROTECTION DIVISION 08 POPINIGS DIVISION 09 PINISHES DIVISION 10 SPECIALTIES DIVISION 11 EQUIPMENT DIVISION 12 FURNISHINGS DIVISION 12 FURNISHINGS DIVISION 12 FURNISHINGS DIVISION 13 SPECIAL CONSTRUCTION DIVISION 29 PLABING DIVISION 29 LEATING, CONSTRUCTION DIVISION 20 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) DIVISION 25 INTEGRATED AUTOMATION DIVISION 26 ELECTRICAL DIVISION 26 ELECTRICAL DIVISION 31 EARTHWORK DIVISION 32 EXTERIOR MIPROVEMENTS DIVISION 31 TRANSPORTATION DIVISION 31 TRANSPORTATION DIVISION 33 TRANSPORTATION DIVISION 34 TRANSPORTATION DIVISION 35 PROCESS INSTRUCTIONS DIVISION 36 PROCESS INSTRUCTIONS DIVISION 37 PROCESS INSTRUCTIONS DIVISION 38 PROCESS INSTRUCTIONS DIVISION 39 PROCESS INSTRUCTIONS DIVISION 30 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 PROCESS INSTRUCTIONS DIVISION 36 PROCESS INSTRUCTIONS DIVISION 37 PROCESS INSTRUCTIONS DIVISION 38 PROCESS INSTRUCTIONS DIVISION 39 PROCESS INSTRUCTIONS DIVISION 31 DIVISION 31 DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 DIVISION 35 PROCESS INSTRUCTIONS DIVISION 36 PROCESS INSTRUCTIONS DIVISION 37 PROCESS INSTRUCTIONS DIVISION 38 PROCESS INSTRUCTIONS DIVISION 39 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 PROCESS INSTRUCTIONS DIVISION 34 PROCESS INSTRUCTIONS DIVISION 35 PROCESS INSTRUCTIONS DIVISION 36 PROCESS INSTRUCTIONS DIVISION 36 PROCESS INSTR	PLUMBING AND ELECTRICAL EQUIPMENT WITH THIS WORK. 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS ATTRIBUTED TO RAIN WATER DAMAGE DURING THE DURATION OF THIS PROJECT. 24. PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DUE TO TEMPERATURES, WIND, DUST, WATER, ETC., PROVIDE AND MAINTAIN TEMPERATURES, WIND, DUST, WATER, ETC., PROVIDE AND MAINTAIN TEMPERATURES, WIND, DUST, WATER, ETC., PROVIDE AND MAINTAIN TEMPERATURES, WIND, DUST, WATER, ETC., AS REQUIRED DURING CONSTRUCTION. 25. MAINTAIN EXISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT STREETS. 26. ALL PUBLIC IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST ADOPTED CITY/COUNTY STANDARDS. 27. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE. 28. NOTIFY THE ARCHITECT IN WRITING AND SEEK CLARRIFCATION IF ANY DISCREPANCIES OR OMISSIONS ARE FOUND, CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER A DISCREPANCY IS IDENTIFIED. 29. NEW FINISHES AND CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION ACTIVITY. DAMAGE TO FINISHES OR CONSTRUCTION WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL BE REPAIRED OR REPLACED (OWNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL MATERIAL AND/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A PHOTOGRAPHIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS. 30. SEE ELECTRICAL DRAWINGS FOR INFORMATION RELATED TO TELECOMMUNICATION EQUIPMENT, POWER, AND LIGHTING FIXTURES AND EQUIPMENT EXCENSION. SOR ON REPLACED (ELING PLAN AND INTERIOR ELEVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT SHOWN, CONTRACT ARCHITECT FOR REVIEW AND DECISION, AND INTERIOR ELEVATIONS FOR COORDINATED FOR ACCESS TO CONCEALED MEETANCAL ADMINIST FOR PROVIDE ACCESS DOORS REQUIRED FOR ACCESS TO CONCEALED MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT.

GENERAL NOTES

- BMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION ND SPECIFICATIONS AND SHALL HAVE VISITED THE TION SITE. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER LL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE THIS CONTRACT. THE GENERAL CONTRACTOR SHALL NOT MPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE
 - REQUIRING WORK, WHICH ARE NOT COVERED IN THE OCUMENTS. BE NO SUBSTITUTION FOR SPECIFIED ITEMS WITHOUT PRIOR INLESS OTHERWISE NOTED. REQUESTS FOR SUBSTITUTIONS ADE IN ACCORDANCE WITH GENERAL CONDITIONS & DIVISION 1 BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR
 - ND PAYING FOR ALL PERMITS REQUIRED BY GOVERNING ORDER TO PERFORM THE WORK. CATION OF ALL ELECTRICAL AND SIGNAL EQUIPMENT, PANEL TURES, ETC., SHALL BE APPROVED BY OWNER PRIOR TO
 - CAL" MEANS IDENTICAL FOR ALL CONDITIONS, UNLESS
 - RWISE NOTED. AR" MEANS COMPARABLE CHARACTERISTICS FOR THE ITION NOTED. VERIFY DIMENSIONS AND ORIENTATIONS. /IDE" MEANS TO FURNISH AND INSTALL.
 - G RULES: ORIZONTAL DIMENSIONS SHALL BE TO FACE OF STUD OR TO ERLINE OF COLUMN GRID LINE, U.O.N ISIONS NOTED "CLEAR". "CLR". OR "MINIMUM" MUST BE
 - SELY MAINTAINED. ISIONS CAN NOT BE MODIFIED WITHOUT APPROVAL OF THE ITECT UNLESS OTHERWISE NOTED.
 - ICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB UNLESS OT SCALE DRAWINGS. IF ANY ITEM OF WORK CANNOT BE
 - TED. DO NOT PROCEED WITH THE WORK WITHOUT THE ITECT'S APPROVAL. ISIONS MARKED "V.I.F." OR "VERIFY" SHALL BE VERIFIED BY THE RACTOR PRIOR TO THE START OF CONSTRUCTION.
 - FY ALL ROUGH OPENING DIMENSIONS FOR FABRICATED ITEMS THE MANUFACTURER PRIOR TO PROCEEDING WITH STRUCTION. QUIRED BACKING, BLOCKING, AND BRACING FOR ALL WALL -TURES, ACCESSORIES AND EQUIPMENT.
 - AND/OR EQUIPMENT REQUIREMENTS. SHALL CONFORM TO FEDERAL GLAZING REGULATIONS AND TORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A RDERLY CONDITION.
 - CTOR SHALL BE RESPONSIBLE FOR REMOVING ALL LEFT-OVER DEBRIS, TOOLS AND EQUIPMENT INVOLVED IN HIS OPERATIONS LUSION OF THE INSTALLATION. HE SHALL LEAVE ALL AREAS REE FROM DUST. MATERIALS: THE ARCHITECT AND THE ARCHITECT'S IS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY. HANDLING, REMOVAL, DISPOSAL OF OR EXPOSURE OF PERSONS
 - S OR HAZARDOUS OR TOXIC SUBSTANCES IN ANY FORM AT THE E. PROFESSIONAL SERVICES RELATED OR IN ANY WAY WITH THE INVESTIGATION, DETECTION, ABATEMENT, NT, USE, SPECIFICATION, OR REMOVAL OF PRODUCTS. OR PROCESSES CONTAINING ASBESTOS OR HAZARDOUS OR RIALS ARE BEYOND THE SCOPE OF THIS AGREEMENT. CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR /ERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS RK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING WN ON THE DRAWING ARE APPROXIMATE ROUTING LOCATION ERMINED FROM EXISTING DRAWINGS AND THE SCHOOL SHOULD NOT BE CONSTRUED TO REPRESENT ALL THE
 - ERGROUND UTILITIES. RY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT RA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR TERIAL OR EQUIPMENT NECESSARY TO MEET THE ITS AND INTENT OF THE PROJECT. NETRATIONS TO EXTERIOR WALLS SHALL BE SEALED AIR/WATER
 - TERIOR PENETRATIONS SHALL BE SEALED TO PROVIDE A AL AND FINISHED APPEARANCE. GS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS ND WORKING SYSTEM FROM THE STANDPOINT OF THE END HIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY
 - FOR PROPER USE CONTROL/ OPERATION OF EQUIPMENT WHICH LISTED, PROVIDE ALL ITEMS WHICH WILL ALLOW THE SYSTEM PROPERLY AT NO INCREASE IN CONTRACT PRICE OR TIME. REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING OF ALL TRADES. HALL CONFORM TO CALIFORNIA CODES, TRADE STANDARDS
 - RN EACH PHASE OF THE PROJECT, AND ALL APPLICABLE LOCAL UTHORITIES HAVING JURISDICTION. G SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT NUAL PUBLISHED IN BOOK FORM, COMBINED, THEY ARE THE
 - NAPPROVED MATERIALS AND EQUIPMENT IS AT THE R'S RISK. SEE SPECIFICATIONS FOR SUBMITTAL AND N REQUIREMENTS. ON MATERIAL STORED ON THE SITE SHALL BE PROPERLY PROTECTED TO PREVENT DAMAGE OR DETERIORATION. HIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL
 - NT/CABINETS SHALL BE FABRICATED FROM FIELD VERIFIED AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, ND ELECTRICAL EQUIPMENT WITH THIS WORK. CTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AND COSTS O RAIN WATER DAMAGE DURING THE DURATION OF THIS EAS FROM DAMAGE WHICH MAY OCCUR DUE TO
 - RES, WIND, DUST, WATER, ETC. PROVIDE AND MAINTAIN BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED DURING ISTING PEDESTRIAN ACCESS ALONG EXISTING ADJACENT PROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE
 - TED CITY/COUNTY STANDARDS. DETAILS SHALL APPLY UNLESS NOTED OTHERWISE. RCHITECT IN WRITING AND SEEK CLARIFICATION IF ANY IES OR OMISSIONS ARE FOUND. CONTRACTOR SHALL BE FOR REMEDIAL WORK IF RELATED WORK IS CONTINUED AFTER ICY IS IDENTIFIED. S AND CONSTRUCTION SHALL BE PROTECTED BY THE
 - FROM POTENTIAL DAMAGE CAUSED BY CONSTRUCTION MAGE TO FINISHES OR CONSTRUCTION SHALL BE REPAIRED OR WNER'S DECISION) BY THE CONTRACTOR WITH IDENTICAL ID/OR FINISHES. CONTRACTOR SHALL MAKE AND MAINTAIN A HIC RECORD NOTEBOOK WITH DATED/INDEXED PHOTOGRAPHS CAL DRAWINGS FOR INFORMATION RELATED TO NICATION EQUIPMENT, POWER, AND LIGHTING FIXTURES AND SEE ARCHITECTURAL PLANS, REFLECTED CEILING PLAN AND EVATIONS FOR COORDINATED EQUIPMENT LOCATIONS. IF NOT
 - ITACT ARCHITECT FOR REVIEW AND DECISION. CESS DOORS REQUIRED FOR ACCESS TO CONCEALED , PLUMBING, AND ELECTRICAL EQUIPMENT. ORK IS UNDERSTOOD TO BE NEW. UNLESS LABELED AS "(E)" OF

SUPPLEMENTAL GENERAL NOTES

- THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR
- REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN. AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF STUDIO W ARCHITECTS, AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF STUDIO W ARCHITECTS.
- EACH BIDDER SHALL POSSESS AT THE TIME OF BID. A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.
- FIRE SAFETY DURING CONSTRUCTION & DEMOLITION: A. GENERAL: FIRE SAFETY DURING CONSTRUCTION & DEMOLITION SHALL COMPLY WITH 2019 CALIFORNIA FIRE CODE (CFC) CH. 33 (PART 9, TITLE
- CONSTRUCTION SAFEGUARDS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3302.
- DEMOLITION: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES
- PER CBC 3308.1. MEANS OF EGRESS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CBC 3310. WATER SUPPLY: APPROVED WATER SUPPLY SHALL BE MADE
- AVAILABLE IN ACCORDANCE WITH CBC 3313. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS. FIRE WATCH SHALL REMAIN IN FFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL PER CBC 3314
- PENETRATIONS IN FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24,
- THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6. CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED THEY ARE BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE DRAWINGS.
- **ENVELOPE MANDATORY MEASURES:** INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
- ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 719 C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES
- OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND
- SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS). MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6.
- CALIFORNIA CODE OF REGULATIONS, SECTION 116(a)1. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL

FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING

- PROCEDURE. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS). PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS: A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE
- CATEGORY. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT
- USING A TORQUE WRENCH AND APPLY LOAD. FOR SLEEVE INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR
- OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO
- THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S). TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED

THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF **INSTALLED ANCHORS:** HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD.

ANCHOR ONLY.

- FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE. DROP-IN ANCHORS ARE ONLY TO BE TESTED WITH THIS METHOD. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT. ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE
- TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST VALUES TABLE) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24. PART 2, SECTION 1910A.5, "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE "
- ALL BOLTS MUST HAVE ICC APPROVAL. ALL ANCHOR BOLTS OF THE EXPANSION TYPE SHALL BE ONE OF THE FOLLOWING: 1. HILTI KB-TZ2 ANCHOR ICC NO. ESR 4266

MINIMUM TEST VALUES				
NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE				
ANCHOR	ANCHOR WEDGE			
DIA. (IN)	TENSION LOAD (LBS)	TORQUE (FT-LBS)	EFFECTIVE MIN. EMBEDMENT	
3/8	6,490	30	1 1/2" - 2 1/2"	
1/2	11,240	50	1 1/2" - 3 1/4"	
5/8	17,535	40	2 3/4" - 4"	

110

3 1/4" - 4 3/4"

POWDER-DRIVEN CONCRETE FASTENERS: GENERAL: USE OF POWDER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE

25,335

SUPERVISOR OR FIELD ENGINEER.

- ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT. ALLOWABLE LOADS: IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING
- TESTING: THE OPERATOR, TOOL, AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD, OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS, EXCEPT THAT WHEN THE DESIGN LOAD EXCEEDS 100 POUNDS, ONE HALF OF THE PINS SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATIONS MUST BE TESTED AND UNFAIR PINS REPLACED.
- FOLLOWING: HILTI, INC. 0.145 DIA. PAF X-CR INTO STEEL BASE MATERIAL -ICC NO. ESR 1663 0.138 DIA. PAF X-CR INTO CONCRETE BASE MATERIAL -

ALL POWDER DRIVEN CONCRETE FASTENERS SHALL BE ONE OF THE

DIV. OF THE STATE ARCHITEC APP: 02-120968 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 02/08/2023

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ARCHITECT	ENGINEER
No. C 30345 Ren 9/30/23 ★ No. C 30345 Ren 9/30/23 ATE OF CALIFORNIA DATE SIGNED: 01/24/2023	

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	NO.	REMARKS	DATE
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DSA PLAN CHECK	02.07.2023
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BIDDING	
CONSTRUCTION	

KEY PLAN

Sacramento Unified School District 425 1st AVENUE

SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

GENERAL NOTES

Project Number

Date	
01/24/2023	
Applicatio	n Number
02-120900	
Drawn	Checked

Drawing Number Author Checker

ACCEPTANCE TESTING OWNER FURNISHED ITEMS

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED

LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S

A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

EMERGENCY RESPONDER RADIO COVERAGE

ARCHITECT OF RECORD (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN AND EQUIPMENT SPECIFICATIONS, AND TESTING AND ACCEPTANCE CRITERIA. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL / AOR TO SUBMIT PLANS AND REQUESTED DOCUMENTATION, AND APPLICABLE FEES, TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT. THE PROJECT INSPECTORS SHALL VERIFY THAT DOCUMENTATION IS PROVIDED TO THE SCHOOL DISTRICTS.

ITEMS LISTED BELOW ARE OWNER FURNISHED, CONTRACTOR INSTALLED. SHADE STRUCTURE (POLIGON VIA SOURCEWELL) ITEMS LISTED BELOW ARE **OWNER** FURNISHED, **OWNER** INSTALLED.

PLAY APPARATUS (MIRACLE VIA SOURCEWELL) PLAY SURFACING (MIRACLE VIA SOURCEWELL)

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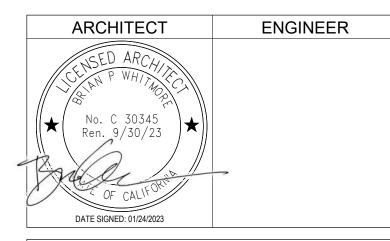
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DATE: 02/08/2023



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CONSTRUCTION	

KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

PROJECT STATUS

SACRAMENTO, CA 95818

SCUSD Bret Harte ES

Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

Date		Project Number
)1/24/2023	}	22035
• •	on Number	Drawing Number
)2-120968		$\Lambda \cap \Omega$
Drawn	Checked	A0.3
N 41	Observations	, 1010

Author Checker

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

(BASED ON DSA PROCEDURE PR 15-01)

ACC. PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS

ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2

MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND

AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS

SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS

MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND

PATH OF TRAVEL.

THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE

PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND

LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION

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

ACCESSIBLE PARKING BASED ON CBC TABLE 11B-208.2 "PARKING SPACES"

STANDARD PARKING PROVIDED: 26 STALLS ACCESSIBLE PARKING PROVIDED: 1 STALLS + 1 VAN STALLS
TOTAL PARKING PROVIDED: 28 STALLS

(E) WALL MOUNTED FIRE ALARM NOTIFICATION STROBE AS REQUIRED PER DŚA PUBLICATION IR 31-1. 02 214 (E) WALL MOUNTED SPEAKER KNOX PAD LOCK TO BE INSTALLED PARKING ENTRANCE SIGNAGE PER 11B-502.8 (SEE DETAIL 4/C5.1) 13 302 POLIGON HIP ROOF SHADE STRUCTURE - PC# 02-119077

KEYNOTES

BICYCLE STORAGE CALCS

BASED ON 2019 CAL GREEN BUILDING STANDARDS CODE SECTION 5.106.4.2 BICYCLE PARKING [DSA-SS]

N/A - NO NEW BUILDINGS

ADSA

810

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ENGINEER

ARCHITECT

No. C 30345

the architect is forbidden.

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ONSTRUCTION

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FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when

LOCAL FIRE AUTHORITY REVIEW

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

2 are to be completed and imaged on the fire access site plan. For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for

PROJECT INFORMATION School District/Owner: Sacramento City Unified School District Project Name/School: Bret Harte ES Project Address: ²⁷⁵¹ 9th Avenue, Sacramento, CA 95818 FIRE & LIFE SAFETY INFORMATION 1. Has a fire hydrant flow test been performed within the past 12 months? Yes □ (If yes, provide a copy of the test data.) 2. Was the fire hydrant water flow test performed as part of this LFA 3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification No 🗷 Refer to the following website for FHSZ locations: Moderate ☐ High ☐ Very High ☐ http://egis.fire.ca.gov/FHSZ/ | Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the | WIFA □ requirements of CBC Chapter 7A. * NO NEW STRUCTURES ARE PROPOSED FOR THIS REVIEW, EXISTING FIRE HYDANT

LOCATIONS FIRE DEPARTMENT ACCESS AND WATER FLOW INFORMATION HAVE BEEN

DEPARTMENT OF GENERAL SERVICES

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT

CONDITION MEANS AND METHODS RESOLUTION ALTERNATE ACCEPTED 4. Emergency vehicle access roadways do not meet CFC requirements. 4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed protection of life and property. 5. | Fire Hydrants: Number and spacing does not meet CFC requirements. 5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by 6. Fire Hydrants: Water flow and pressure are less than CFC minimum. 6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fir suppression and protection of life and property. School District Acceptance of Acceptable Design Alternates

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

LFA Agency Name: Sacramento Fire Department	
LFA Review Official: King Tunson	
Title: Program Secialist Work Phone: (916) 808-1358	
Work Email: ktunson@sfd.cityofsacramento.org	·

Page 2 of 4 STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES

Sacramento Unified School District 425 1st AVENUE

SACRAMENTO, CA 95818

KEY PLAN

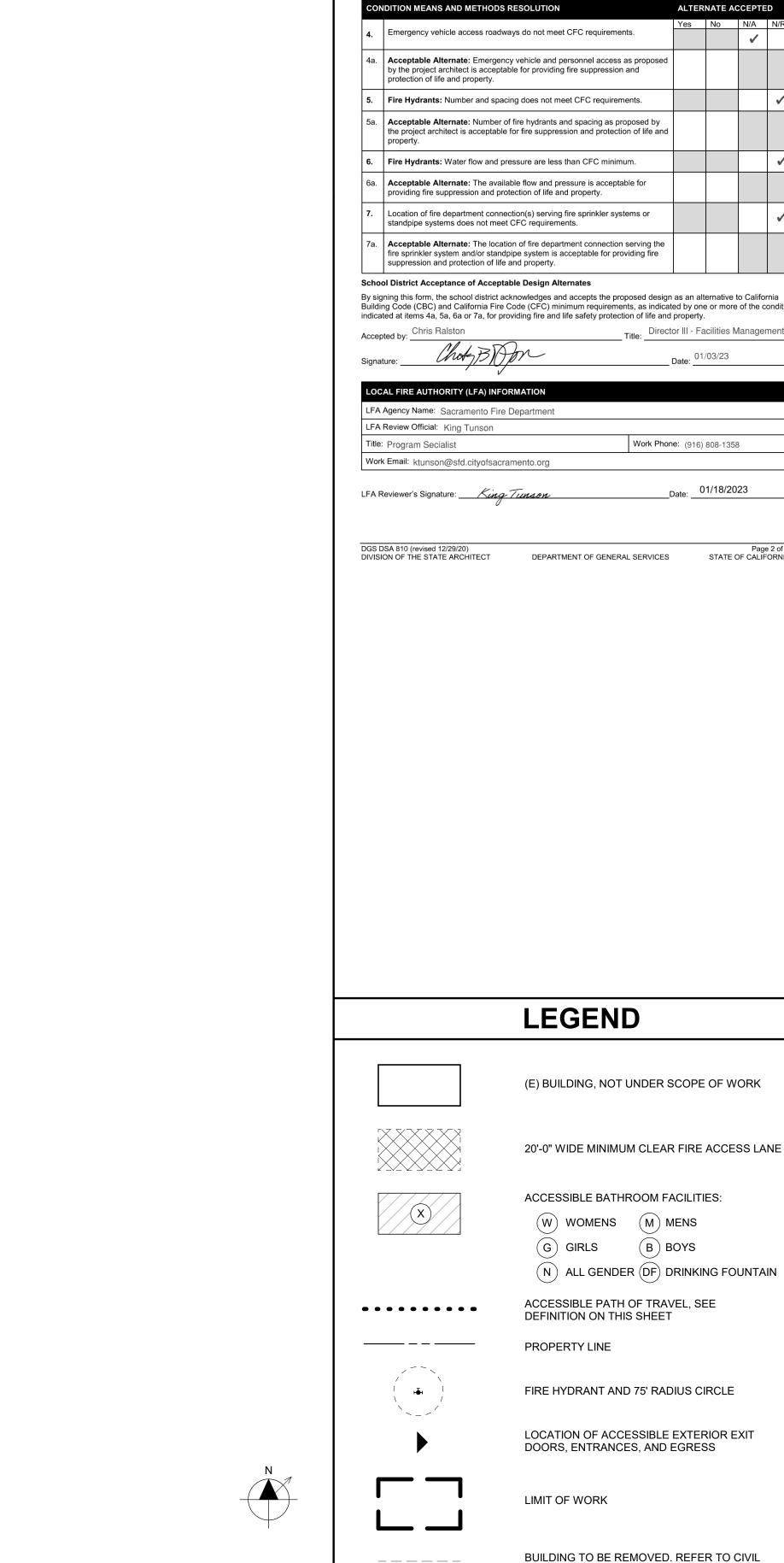
PROJECT STATUS

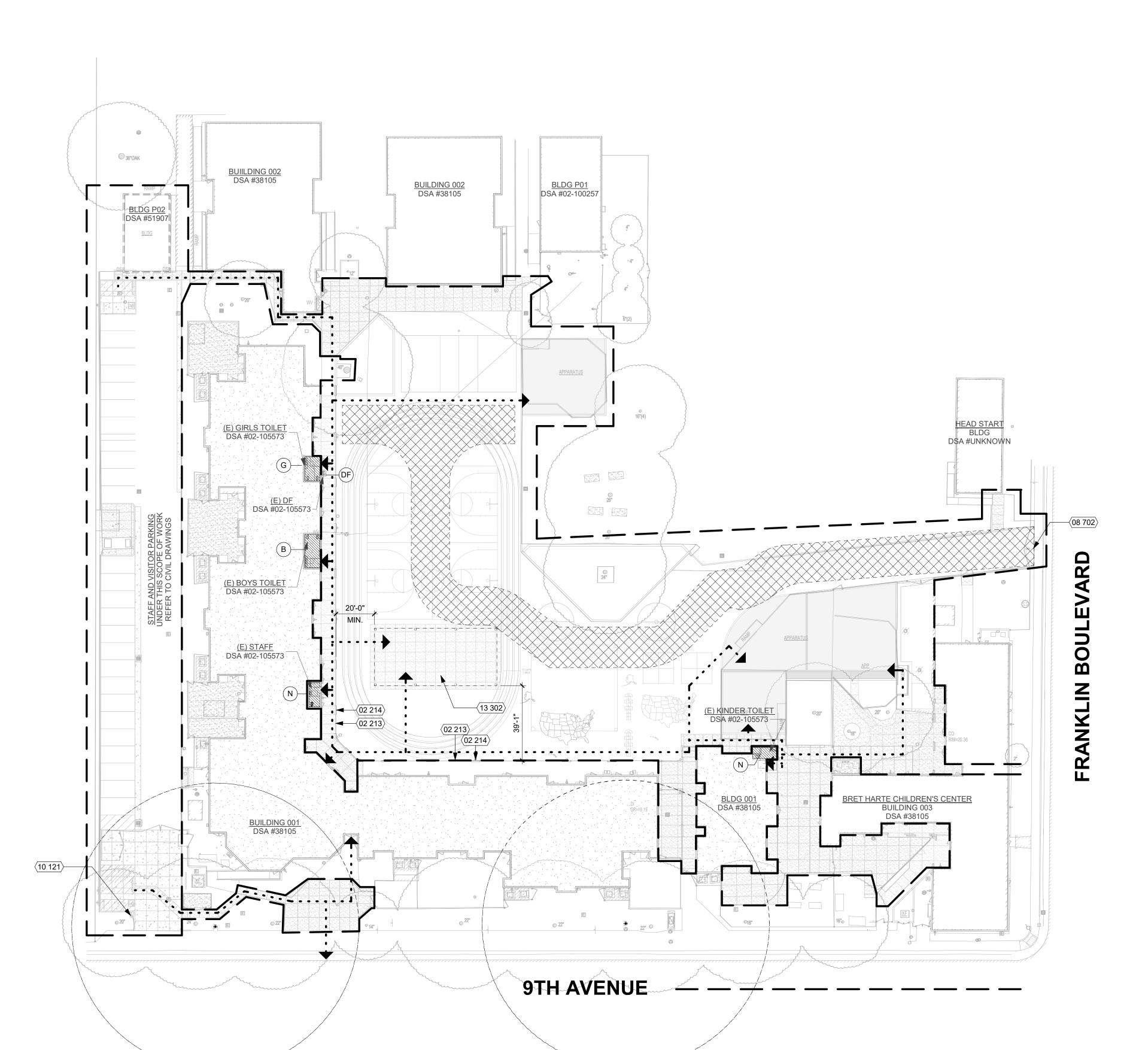
SCUSD Bret Harte ES Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

CODE ANALYSIS SITE PLAN

01/24/2023 02-120968

Project Number **Drawing Number** Application Number Checked





CODE ANALYSIS SITE PLAN 1" = 30'-0" (10)

PLANS FOR MORE INFORMATION Drawn

<u>ABBREVIATIONS</u> NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS. AGGREGATE BASE ASPHALTIC CONCRETE AREA DRAIN ASSESSOR'S PARCEL NUMBER ARV AIR RELEASE VALVE AGGREGATE SUB-BASE BLOW-OFF VALVE BUTTERFLY VALVE BACK OF WALK BW CENTERLINE CATCH BASIN CONTROL JOINT CLASS CMP CORRUGATED METAL PIPE CATV CABLE TELEVISION CO CLEANOUT COMM COMMUNICATION CONC. CONCRETE CONST CONSTRUCT CR CURB RETURN CS CONCRETE SURFACE DOUBLE CHECK VALVE

DDC DOUBLE DETECTOR CHECK VALVE DECOMPOSED GRANITE DROP INLET DIA DIAMETER DUCTILE IRON PIPE DIP DRAWING DOWNSPOUT ELECTRIC EXPANSION JOINT EDGE OF PAVEMENT EASEMENT ESMT EX **EXISTING** FS FIRE SERVICE LINE FDC

FIRE DEPARTMENT CONNECTION FLOWLINE SANITARY SEWER FORCE MAIN FM FINISHED FLOOR ELEVATION FIRE HYDRANT GAS GB GRADE BREAK GR GRATE ELEVATION GRD GRADE ELEVATION GV GATE VALVE HB HOSE BIBB HBD HEADER BOARD

HIGH DENSITY POLYETHYLENE PIPE HIGH POINT INV PIPE INVERT ELEVATION JOINT UTILITY POLE LINEAL FEET LIP OF GUTTER MOWSTRIP NOT TO SCALE NTS OVERHEAD BUILDING PAD PORTLAND CEMENT CONCRETE PLANTER DRAIN

POST INDICATOR VALVE PROPERTY LINE POWER POLE PLAY SURFACE PUBLIC UTILITY EASEMENT POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE MANHOLE RIM ELEVATION (SOLID COVER) REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE STORM DRAIN STORM DRAIN MANHOLE SUBGRADE ELEVATION FIRE SPRINKLER SERVICE

SANITARY SEWER SANITARY SEWER MANHOLE STANDARD SIDEWALK **TELEPHONE** TOP OF CURB TRENCH DRAIN TRENCH DRAIN CATCH BASIN TELEPHONE POLE TRW TOP OF RETAINING WALL TOP OF SEAT WALL TOP OF WALK ELEVATION UNDERGROUND UON UNLESS OTHERWISE NOTED VCP VITRIFIED CLAY PIPE WATER WITH

WITHOUT

WATER VALVE

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS. PROPOSED GRADING & DRAINAGE SYMBOLS: 8" SD STORM DRAIN LINE (SDMH) ----- CATCH BASIN (CB) ---- DROP INLET (DI) ----- AREA DRAIN (AD) FLOOR DRAIN (FD) 99.99 ELEVATION FF=100.00 PAD=99.33 CONCRETE SIDEWALK

 \longrightarrow --- \longrightarrow SWALE

RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS: 6" SS SANITARY SEWER LINE SANITARY SEWER MANHOLE (SSMH) SEWER CLEANOUT

PROPOSED WATER SYMBOLS: 8" W WATER LINE & SIZE 8" FS FIRE LINE & SIZE 8" DW DOMESTIC WATER LINE & SIZE 8" RW RECLAIMED WATER LINE & SIZE 8" IRR IRRIGATION SERVICE LINE & SIZE 8" NP NON POTABLE WATER LINE & SIZE 8" SP FIRE SPRINKLER SERVICE LINE & SIZE → GATE VALVE WATER METER → → FH FIRE HYDRANT ASSEMBLY FIRE DEPARTMENT CONNECTION DETECTOR CHECK VALVE DOUBLE DETECTOR CHECK VALVE

BACKFLOW PREVENTER

AIR RELEASE VALVE + SIZE

BLOW-OFF VALVE + SIZE

REDUCED PRESSURE

BUTTERFLY VALVE

POST INDICATOR VALVE

GENERAL NOTES

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.



- 2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH
- 3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN
- 4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER 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 ENGINEER.
- 5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE NECESSARY PRE-CONSTRUCTION SITE REVIEWS TO DETERMINE NECESSARY MEANS AND METHODS TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS.
- 7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE
- 9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK.. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER
- 11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.
- 12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.
- 13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.
- 14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.
- 15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY
- 16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.
- 17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.
- 18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING, CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.
- 19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.
- 20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.
- 21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO
- 22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDROSEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

EXISTING CONCRETE PER DRAWING DETAIL.

CIVIL SHEET INDEX

CO.3 - UTILITY SURVEY

C1.1 - DEMOLITION PLAN

C2.1 - GRADING PLAN

C2.2 - GRADING PLAN C2.3 - GRADING PLAN C3.1 – UTILITY PLAN

C4.1 - PAVING PLAN C5.1 – STRIPING PLAN

CO.2 - TOPOGRAPHIC SURVEY

C1.2 - UTILITY DEMOLITION PLAN

C1.3 – ENGINEERED FILL PLAN

C6.1 - EROSION CONTROL PLAN

C7.1 - DETAILS AND SECTIONS C7.2 - DETAILS AND SECTIONS C7.3 - DETAILS AND SECTIONS

CO.1 - CIVIL GENERAL NOTES AND ABBREVIATIONS

23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

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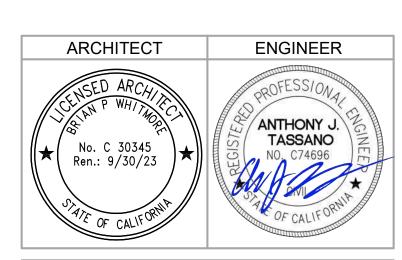
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APP: 02-120968 INC:

DATE: 02/08/2023



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KEY PLAN

| ★ O CONSTRUCTION

Sacramento Unified School District 425 1st AVENUE

SACRAMENTO, CA 95818

CONSTRUCTION DOCUMENTS

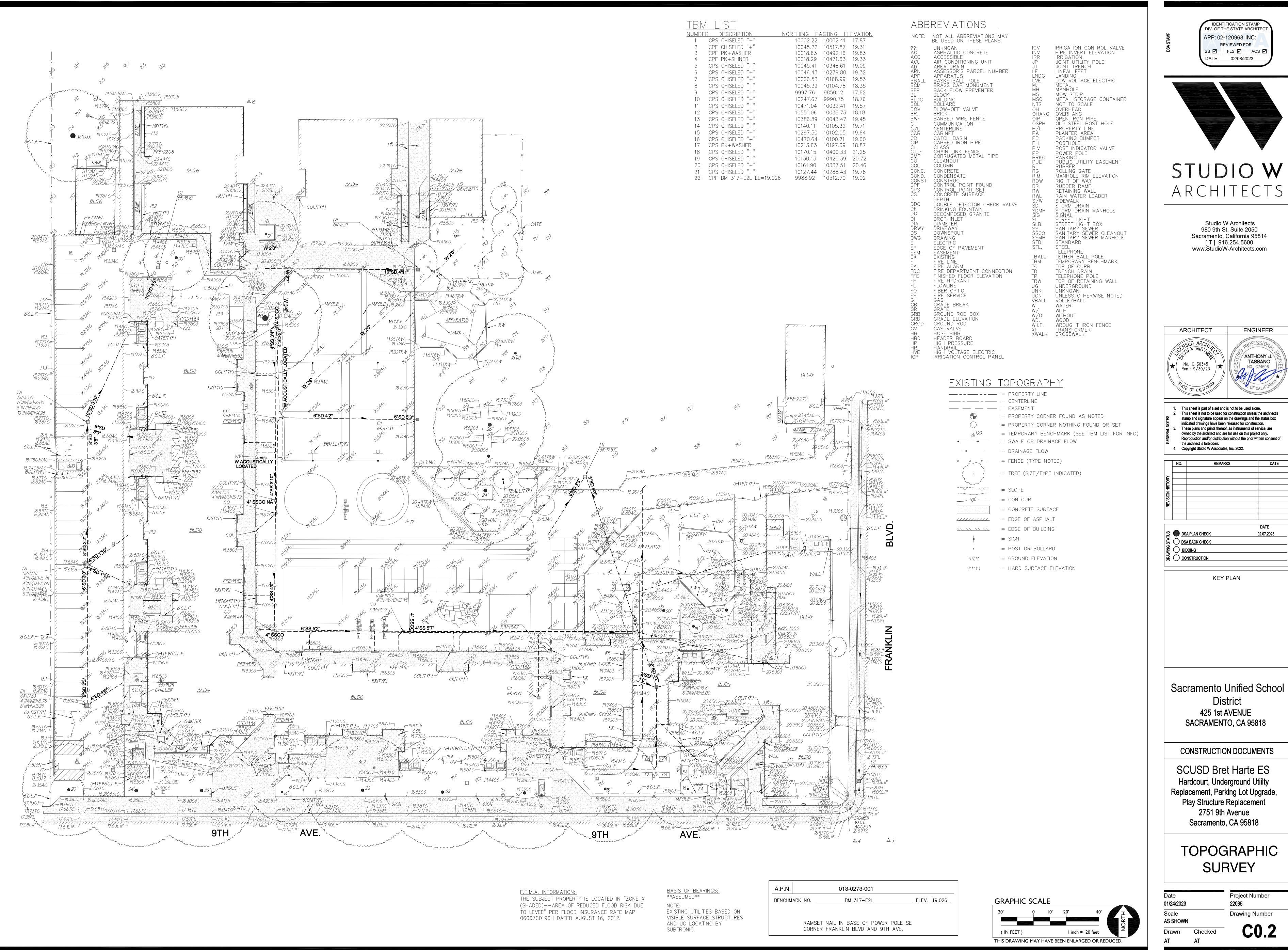
SCUSD Bret Harte ES Hardcourt, Underground Utiilty Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

> **CIVIL GENERAL** NOTES AND **ABBREVIATIONS**

Project Number 01/24/2023 Scale **Drawing Number AS SHOWN** Drawn Checked

FILENAME: I: \22-154\CIVIL\DWG\22-154-C01.DWG

(SIZE AND FLOW SHOWN) STORM DRAIN MANHOLE CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION. APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF. PLANTER DRAIN (PD) OR STORM DRAIN CLEANOUT FINISHED FLOOR ELEVATION BUILDING PAD ELEVATION GRADED DIRECTION FOR DRAINAGE FLOW TREE TO BE REMOVED REQUIREMENTS. (SIZE AND FLOW SHOWN) FLUSHER BRANCH ADMINISTRATIVE AUTHORITY.



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ARCHITECT **ENGINEER** ANTHONY J TASSANO Ren.: 9/30/23 This sheet is part of a set and is not to be used alone.

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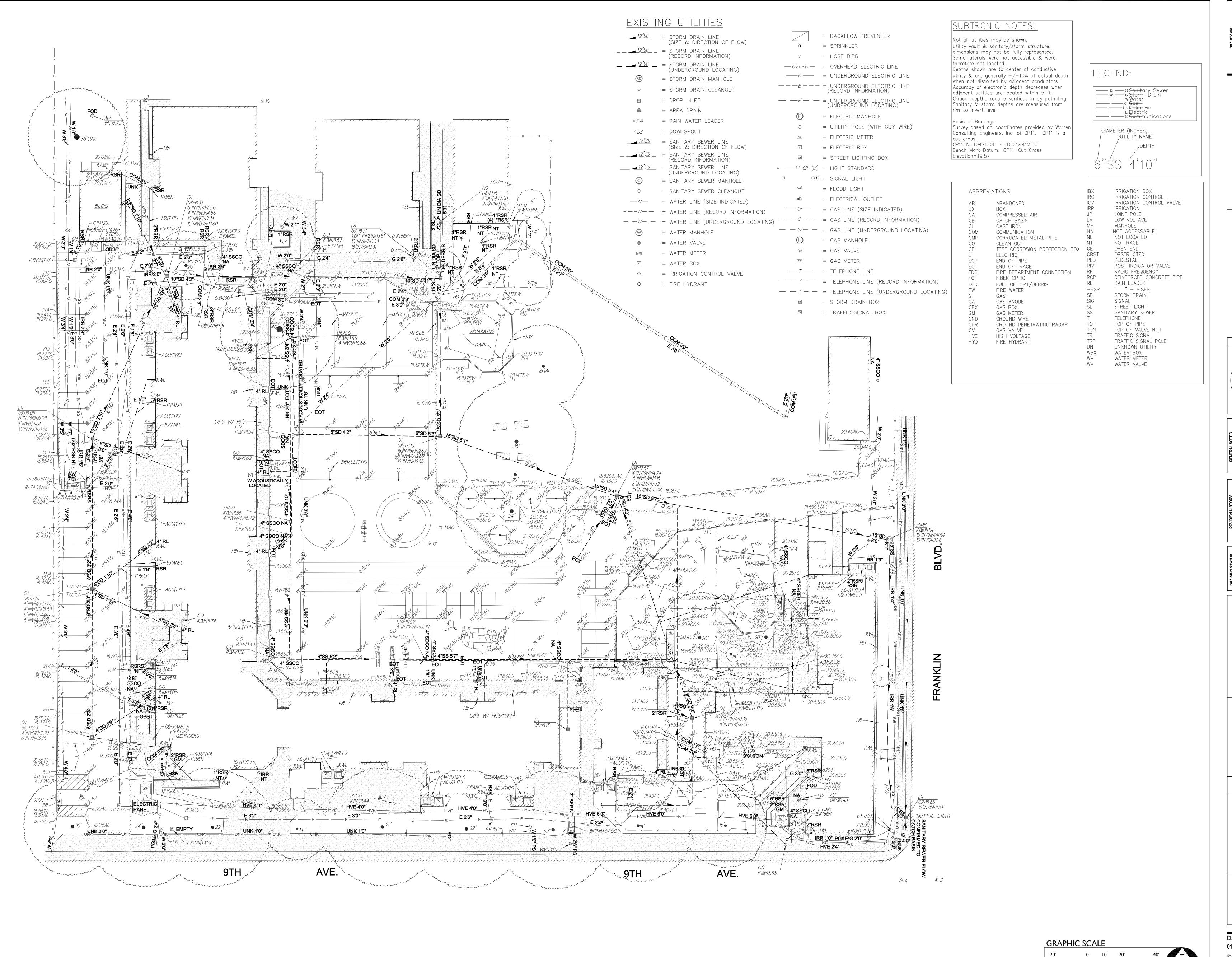
Sacramento Unified School District 425 1st AVENUE SACRAMENTO, CA 95818

CONSTRUCTION DOCUMENTS

SCUSD Bret Harte ES Hardcourt, Underground Utiilty Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

TOPOGRAPHIC **SURVEY**

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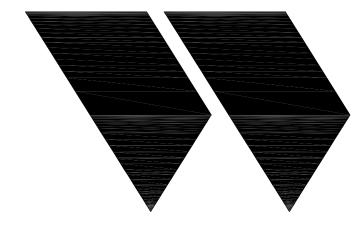


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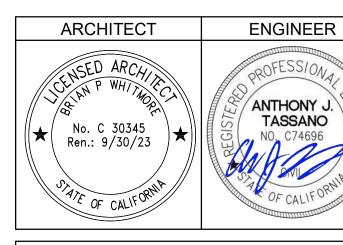
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DATE: 02/08/2023



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KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

CONSTRUCTION DOCUMENTS

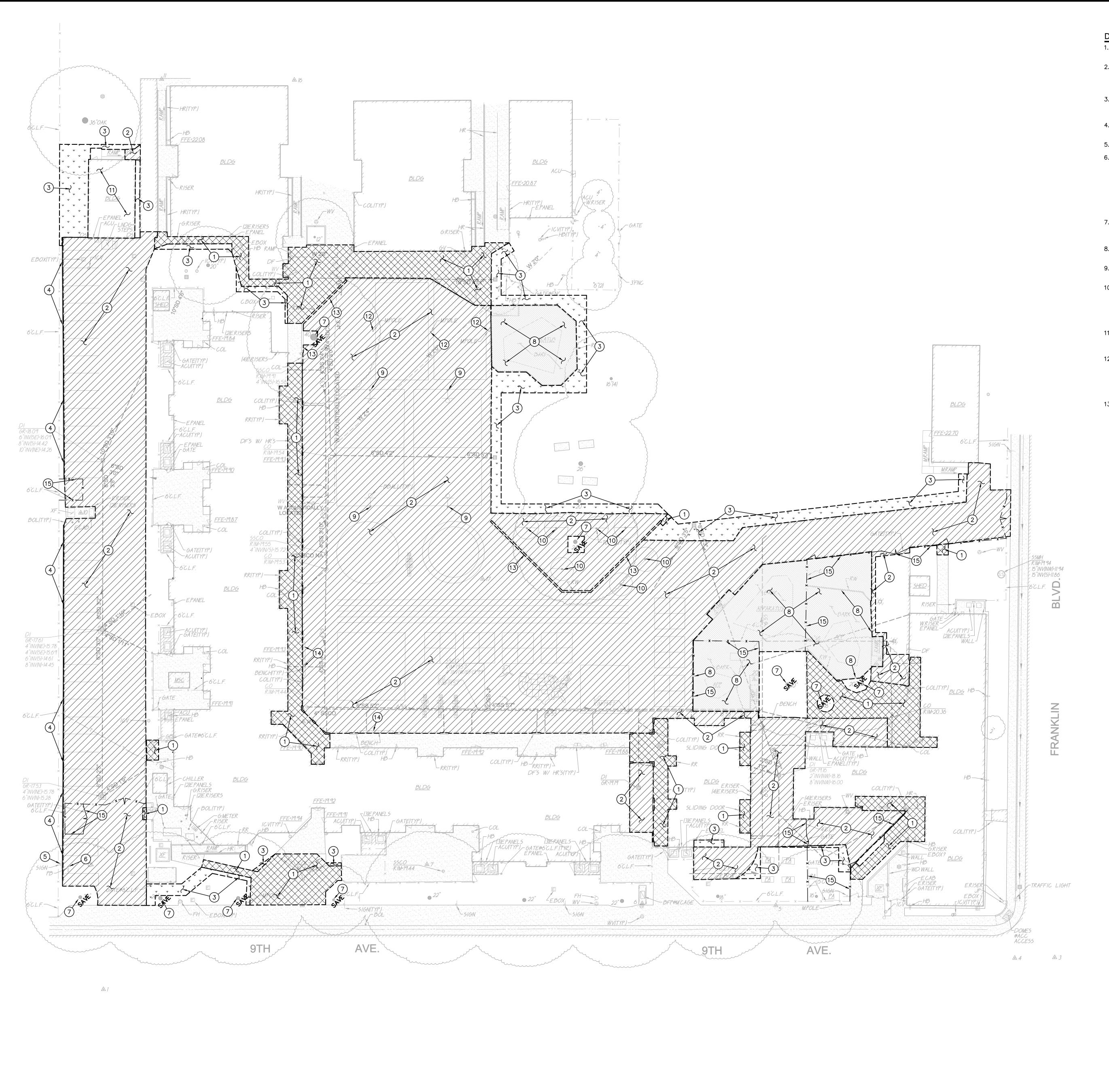
SACRAMENTO, CA 95818

SCUSD Bret Harte ES
Hardcourt, Underground Utiilty
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

UTILITY SURVEY

Date 01/24/2023		Project Number 22035
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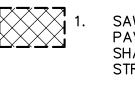


DEMOLITION GENERAL NOTES

1. REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.

- 2. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- 3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- 4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- 5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 6. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
- 7. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 9. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
- 10. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
- 11. PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
- 12. WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.
- 13. COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.

DEMOLITION NOTES



SAWCUT, REMOVE AND DISPOSE OF EXISTING CONCRETE PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.

2.

SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE. SAWCUT SHALL BE A NEAT STRAIGHT LINE, MAINTAIN CLEAN, STRAIGHT CUT EDGE UNTIL NEW PAVING IS PLACED.

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REMOVE AND DISPOSE OF EXISTING TURE AND ASSOCIATED IRRIGATION PIPING/SPRINKLERS WITHIN AREAS OF WORK. CUT AND CAP ANY MAINLINES NEAR WHERE THEY ENTER THE BOUNDARY OF THE PROJECT. MARK ALL CAPPED LINES WITH AN IRRIGATION VALVE BO. ALL EXISTING IRRIGATION AREAS OUTSIDE THE PROJECT WORK AREA SHALL BE PRESERVED AND OPERATIONAL. INTEGRITY SHALL BE MAINTAINED WITH PROPER SPRINKLER COVERAGE TO TURE AREAS TO REMAIN.

4. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB TO EXTENTS SHOWN.

5. REMOVE AND DISPOSE OF EXISTING SIGN, POST AND ASSOCIATED FOOTINGS.

6. REMOVE AND DISPOSE OF EXISTING WHEEL STOP.
7. EXISTING TREE TO REMAIN AND BE PROTECTED.

8. REMOVE AND DISPOSE OF EXISTING APPARATUS CURB, RAMP, BARK, PLAY APPARATUS, POSTS AND FOOTINGS

- 9. REMOVE AND DISPOSE OF EXISTING BASKETBALL POLE AND ASSOCIATED FOOTINGS.
- FOOTINGS.

 11. REMOVE AND DISPOSE OF EXISTING PORTABLE BUILDING, FOUNDATION AND RAMPS. REMOVE UTILITIES BACK TO SERVICE

10. REMOVE AND DISPOSE OF EXISTING TETHERBALL POST AND

- 12. REMOVE AND DISPOSE OF EXISTING METAL POST AND FOOTINGS.
- 13. EXISTING SEAT WALL TO REMAIN.
- 14. REMOVE AND DISPOSE OF EXISTING BENCH.

GATE, POSTS AND ASSOCIATED FOOTINGS.

POINT AND OUTSIDE LIMITS OF WORK.

GRAPHIC SCALE

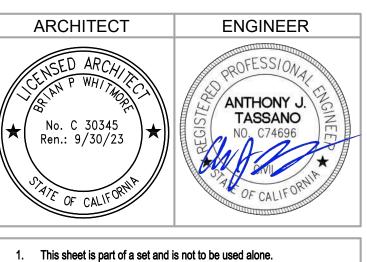
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BIDDING

CONSTRUCTION

KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

CONSTRUCTION DOCUMENTS

SACRAMENTO, CA 95818

SCUSD Bret Harte ES
Hardcourt, Underground Utiilty
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

DEMOLITION PLAN

Date
01/24/2023

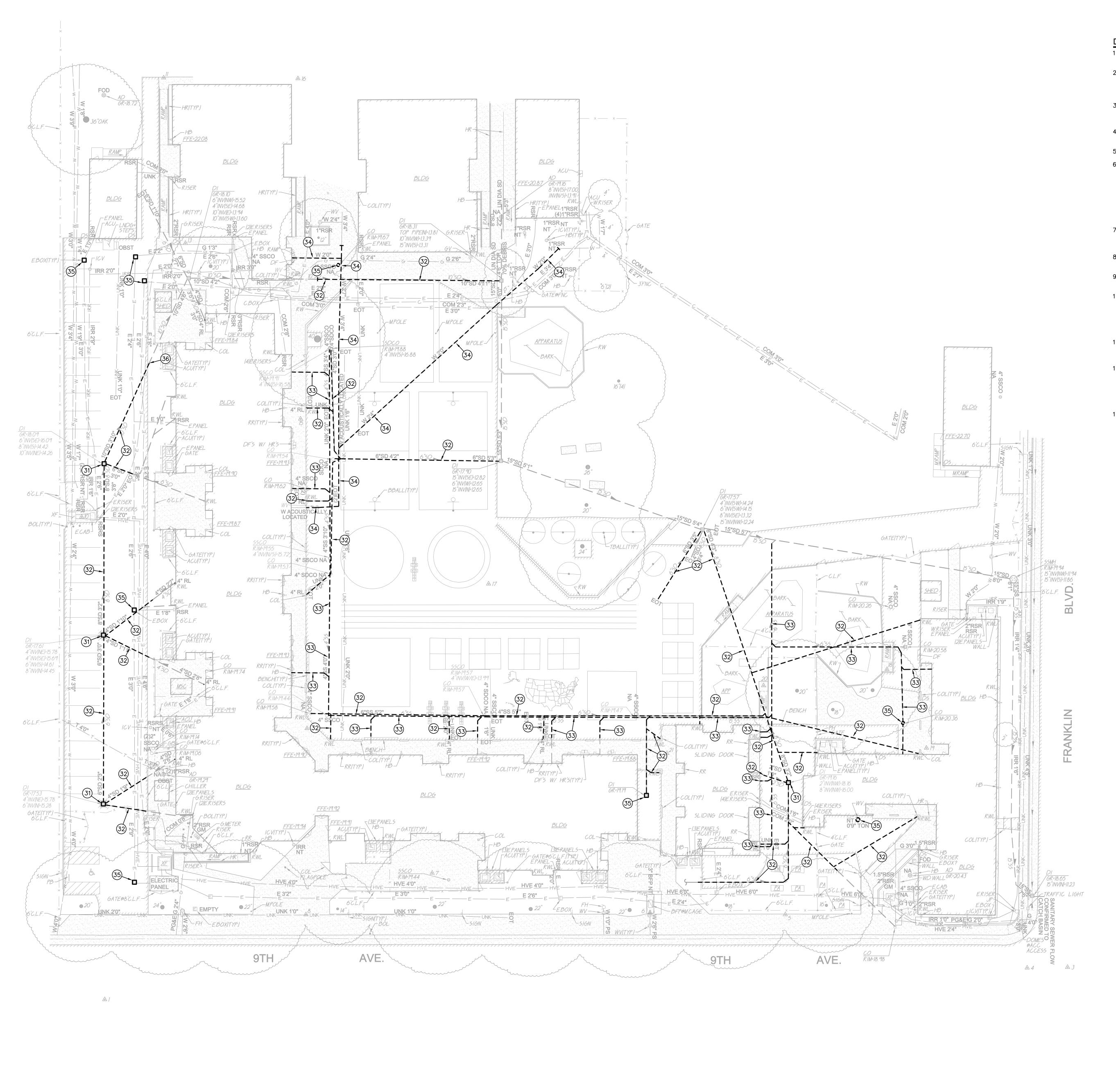
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Project Number
22035

Drawing Number

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DEMOLITION GENERAL NOTES

- REFER TO ARCHITECTURAL, LANDSCAPE, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DEMOLITION ITEMS.
- 2. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- 3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- 4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE,
- 5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.

LEGAL, DUMP SITE OR OTHER FACILITY.

- 6. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
- 7. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REPLACED WITH NEW BOX/COVER AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- 8. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- 9. EXISTING UTILITY STRUCTURES AND PIPING NOT SHOWN ON DEMOLITION PLAN TO BE REMOVED SHALL REMAIN AND BE PROTECTED.
- 10. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND THE NEAREST LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
- 11. PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.
- 12. WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINES AND HEADS ENCOUNTERED. MAIN LINES AND CONTROL WIRES MAY ONLY BE REMOVED PROVIDED THAT ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEMS INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.
- 13. COORDINATE REMOVAL OF LANDSCAPE ITEMS WITH LANDSCAPE PLANS.

UTILITY DEMOLITION NOTES

- 31. REMOVE AND DISPOSE OF EXISTING DRAINAGE STRUCTURE.
- 32. REMOVE AND DISPOSE OF EXISTING STORM DRAIN TO EXTENT SHOWN.
- 33. REMOVE AND DISPOSE OF EXISTING SEWER PIPE TO EXTENT
- 34. REMOVE AND DISPOSE OF EXISTING WATER PIPE TO EXTENT
- 35. REMOVE EXISTING UTILITY BOX AND/OR FRAME AND COVER AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER.
- 36. CAP END OF PIPE.

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KEY PLAN

Sacramento Unified School District 425 1st AVENUE SACRAMENTO, CA 95818

CONSTRUCTION DOCUMENTS

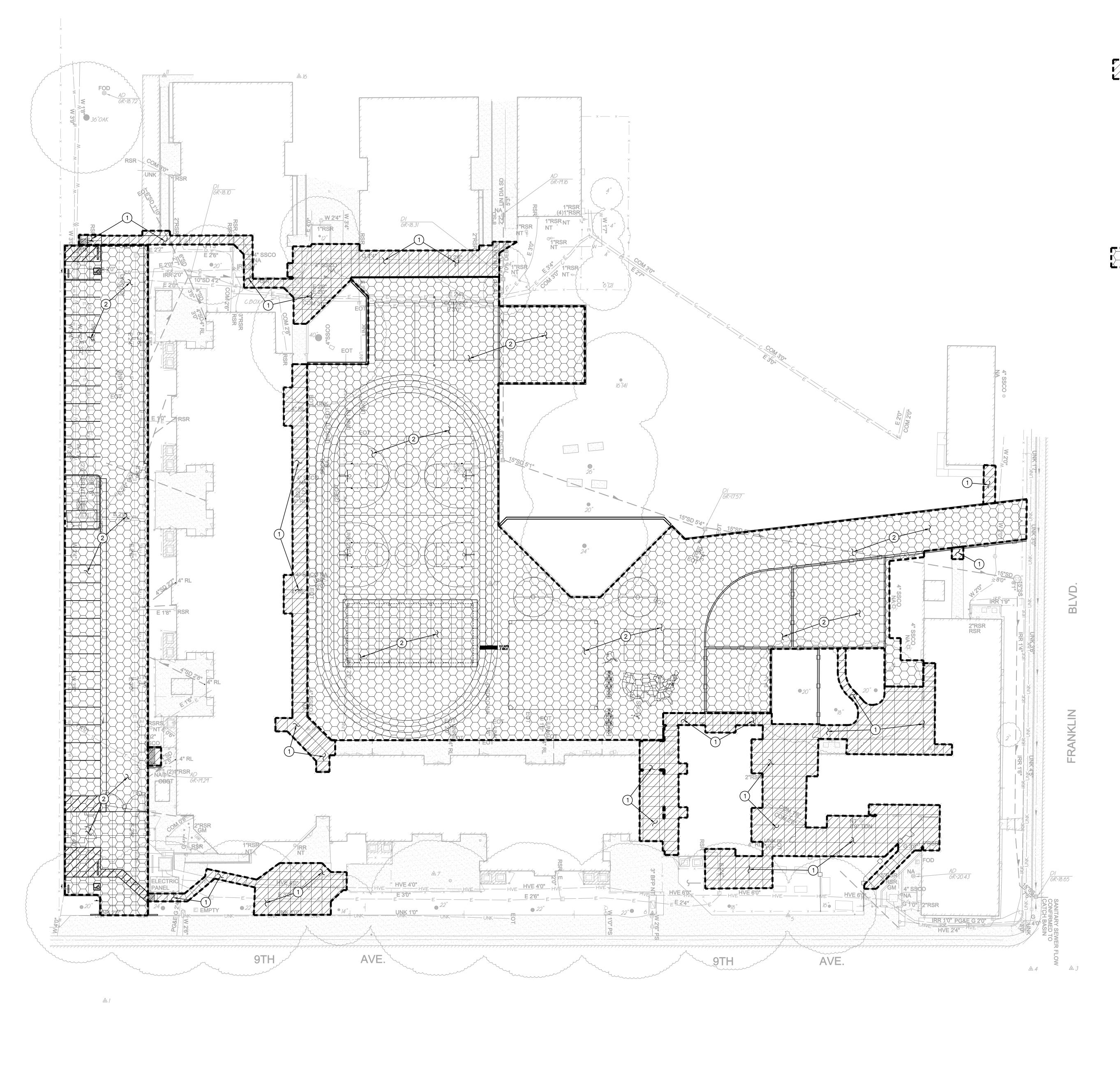
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> UTILITY **DEMOLITION PLAN**

01/24/2023 **AS SHOWN**

Project Number Drawing Number Drawn Checked

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SUBGRADE PREPARATION

FOLLOWING SITE DEMOLITION ACTIVITIES,

FOR AREAS TO BE CUT TO ACHIEVE SUBGRADE, EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

FOR AREAS TO BE FILLED TO ACHIEVE SUBGRADE, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12 INCHES AND UNIFORMLY MOISTURE CONDITION TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT AND COMPACT TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557. FILL MATERIAL SHALL BE PLACED IN LEVEL LAYERS NOT EXCEEDING 6 INCHES IN COMPACTED THICKNESS. FILL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY PER ASTM D1557.

THE UPPER 6 INCHES OF SUBGRADE SUPPORTING ASPHALT PAVING SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY

SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED ASPHALT AND CONCRETE PAVING WHEN NOT ABUTTING EXISTING PAVING ..



■ 2. FOLLOWING SITE CLEARING, STRIPPING AND DEMOLITION ACTIVITIES: EXCAVATE DOWN TO ROUGH SUBGRADE ELEVATION, SCARIFY THE EXISTING SOILS TO A MINIMUM DEPTH OF 12 INCHES.

> THE UPPER 12 INCHES OF PROPOSED SUBGRADE SHALL BE TREATED WITH 5.0 POUNDS OF LIME PER CUBIC FOOT (BY DRY WEIGHT OF SOIL) AND COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPÁCTION AT A MOISTURE CONTENT OF AT LEAST 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT.

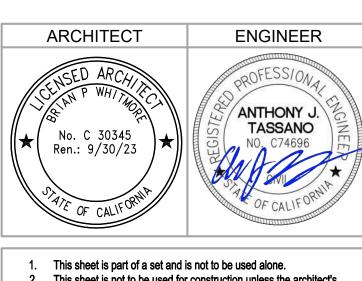
GENERAL NOTES

- 1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- 2. NO BURNING SHALL BE PERMITTED.
- 3. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.

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KEY PLAN

CONSTRUCTION

Sacramento Unified School **District** 425 1st AVENUE

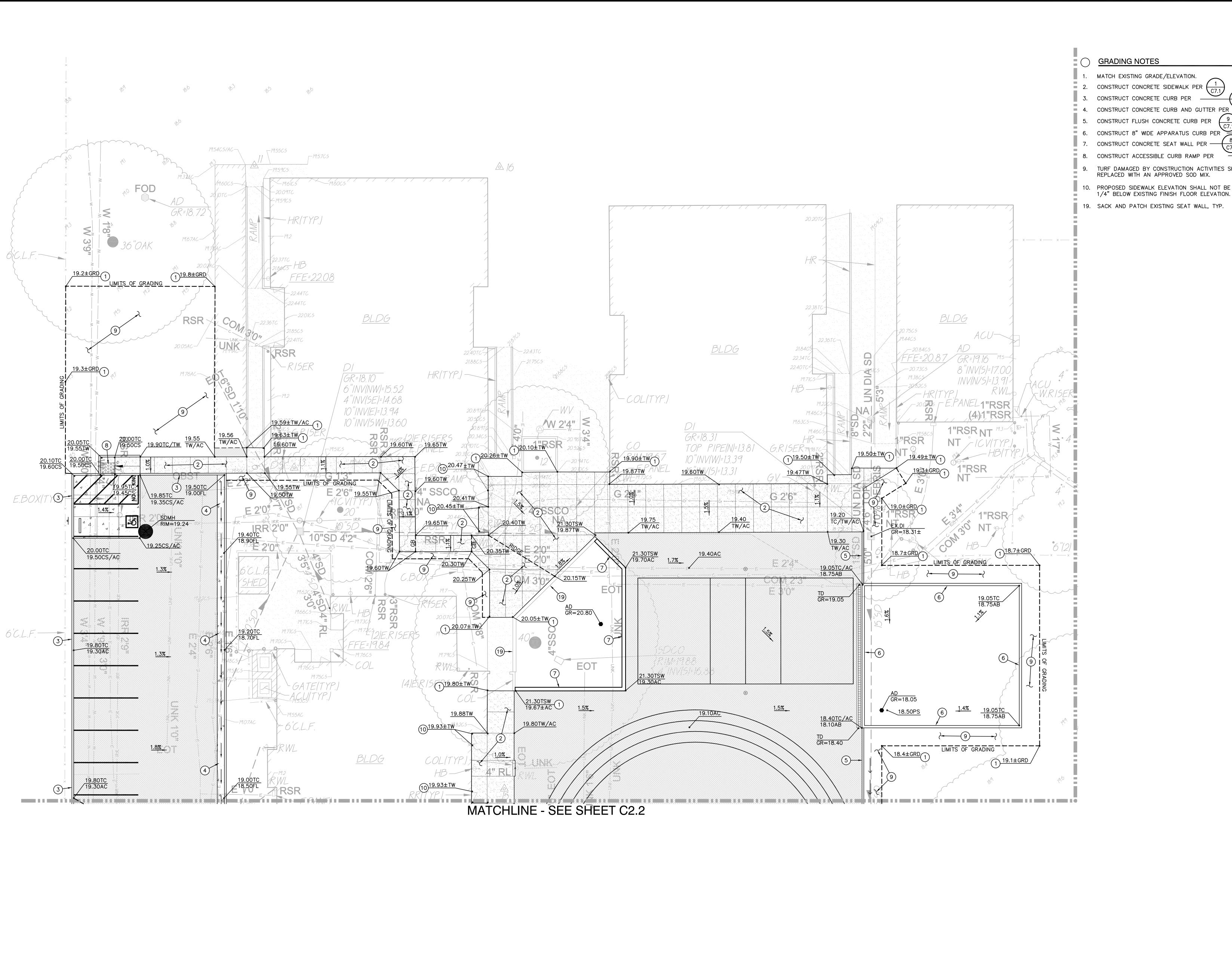
CONSTRUCTION DOCUMENTS

SACRAMENTO, CA 95818

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ENGINEERED FILL PLAN

Project Number 01/24/2023 Drawing Number **AS SHOWN** Drawn Checked



MATCH EXISTING GRADE/ELEVATION. 2. CONSTRUCT CONCRETE SIDEWALK PER 3. CONSTRUCT CONCRETE CURB PER — 4. CONSTRUCT CONCRETE CURB AND GUTTER PER 5. CONSTRUCT FLUSH CONCRETE CURB PER 6. CONSTRUCT 8" WIDE APPARATUS CURB PER 7. CONSTRUCT CONCRETE SEAT WALL PER $\frac{8}{100}$ 8. CONSTRUCT ACCESSIBLE CURB RAMP PER

9. TURF DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH AN APPROVED SOD MIX.

10. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN

19. SACK AND PATCH EXISTING SEAT WALL, TYP.

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Sacramento Unified School **District**

CONSTRUCTION DOCUMENTS

425 1st AVENUE

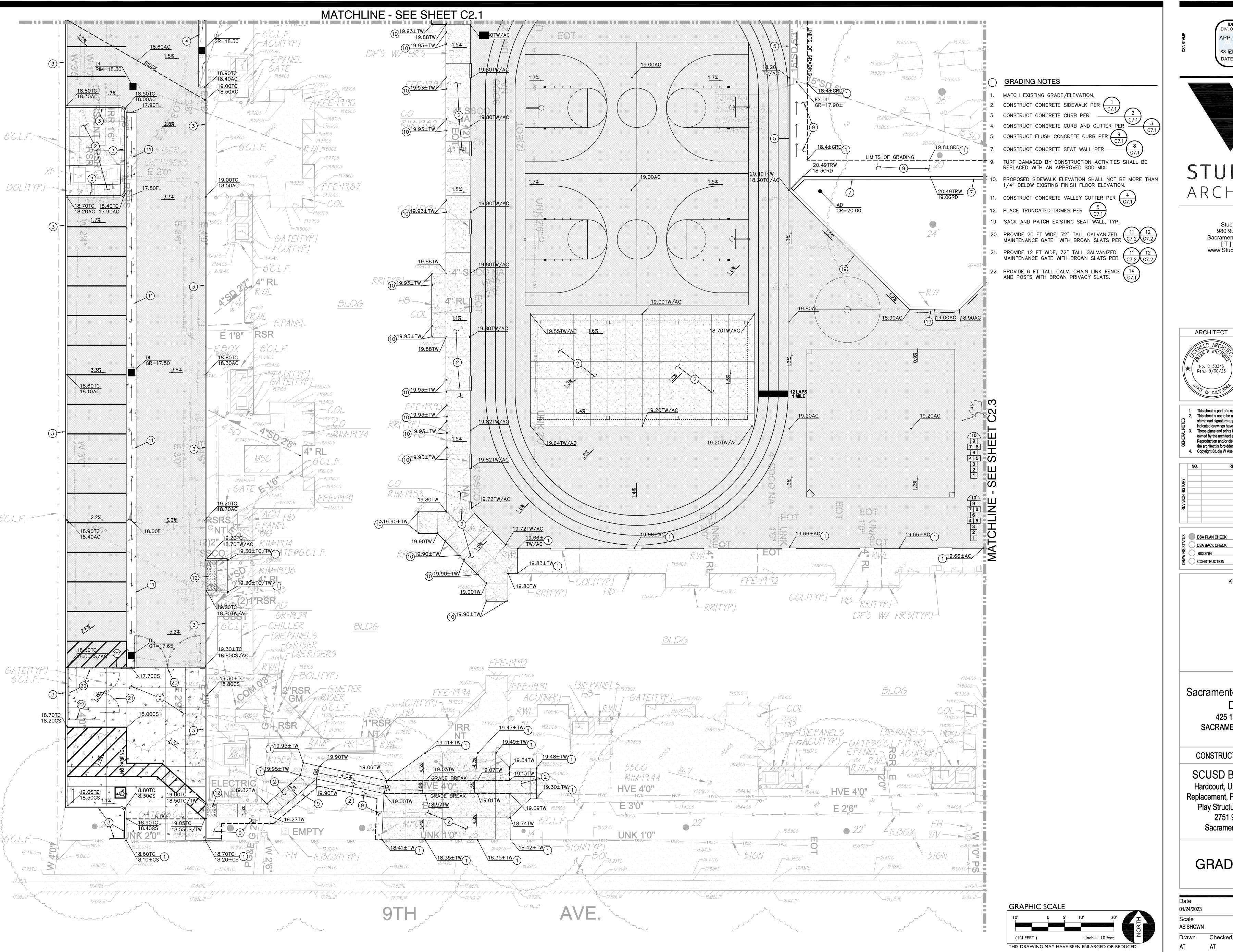
SACRAMENTO, CA 95818

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GRADING PLAN

Project Number 01/24/2023 Drawing Number AS SHOWN Drawn Checked

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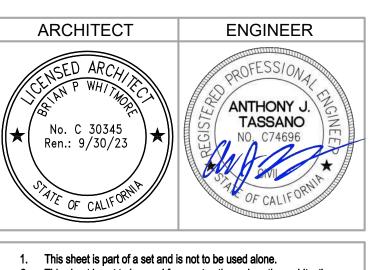


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Sacramento Unified School District 425 1st AVENUE

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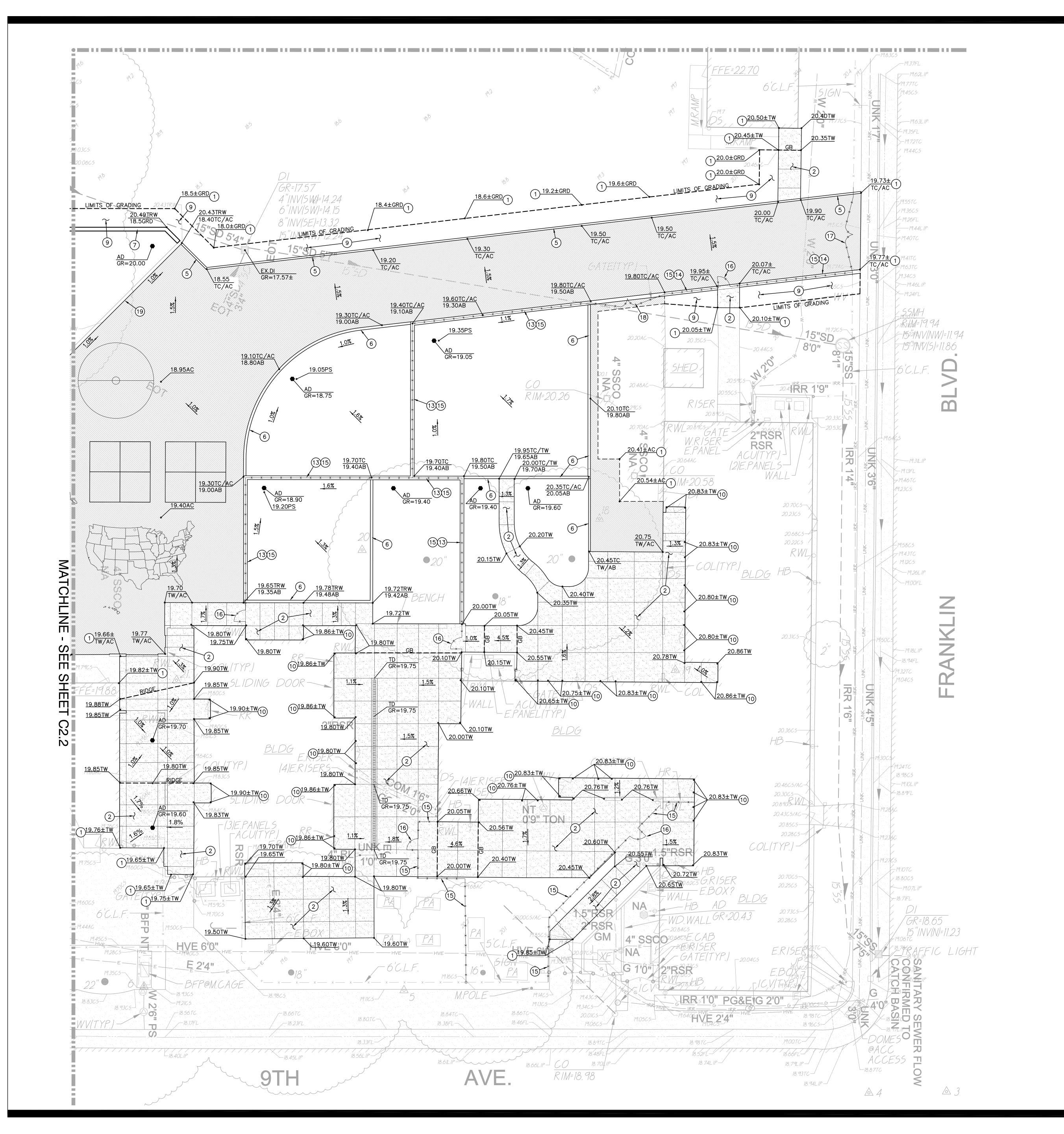
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GRADING PLAN

Project Number

Drawing Number

01/24/2023 AS SHOWN



GRADING NOTES

- 1. MATCH EXISTING GRADE/ELEVATION.
- 2. CONSTRUCT CONCRETE SIDEWALK PER —
- 5. CONSTRUCT FLUSH CONCRETE CURB PER (
- 6. CONSTRUCT 8" WIDE APPARATUS CURB PER
- 7. CONSTRUCT CONCRETE SEAT WALL PER
- 9. TURF DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH AN APPROVED SOD MIX.
- 10. PROPOSED SIDEWALK ELEVATION SHALL NOT BE MORE THAN 1/4" BELOW EXISTING FINISH FLOOR ELEVATION.
- 13. CONSTRUCT 12" WIDE APPARATUS CURB WITH FENCE PER
- 14. CONSTRUCT 12" WIDE CONCRETE CURB WITH FENCE PER -
- 15. PROVIDE 4 FT TALL BLACK VINYL CHAIN LINK FENCE AND POSTS. POSTS AND RAILS TO BE POWDER COATED. FABRIC C7.1

 TO BE 9 GA. 2" MESH. SEE SPECIFICATION 323113.
- 16. PROVIDE 3 FT WIDE ACCESSIBLE GATE PER
- 17. PROVIDE 20 FT WIDE, 72" TALL MAINTENANCE GATE PER
- 18. PROVIDE 20 FT WIDE, 48" TALL MAINTENANCE GATE PER C7.2 C7.2 C7.2 PROVIDE KNOX BOX AND LOCK.
- 19. SACK AND PATCH EXISTING SEAT WALL, TYP.

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GRADING PLAN

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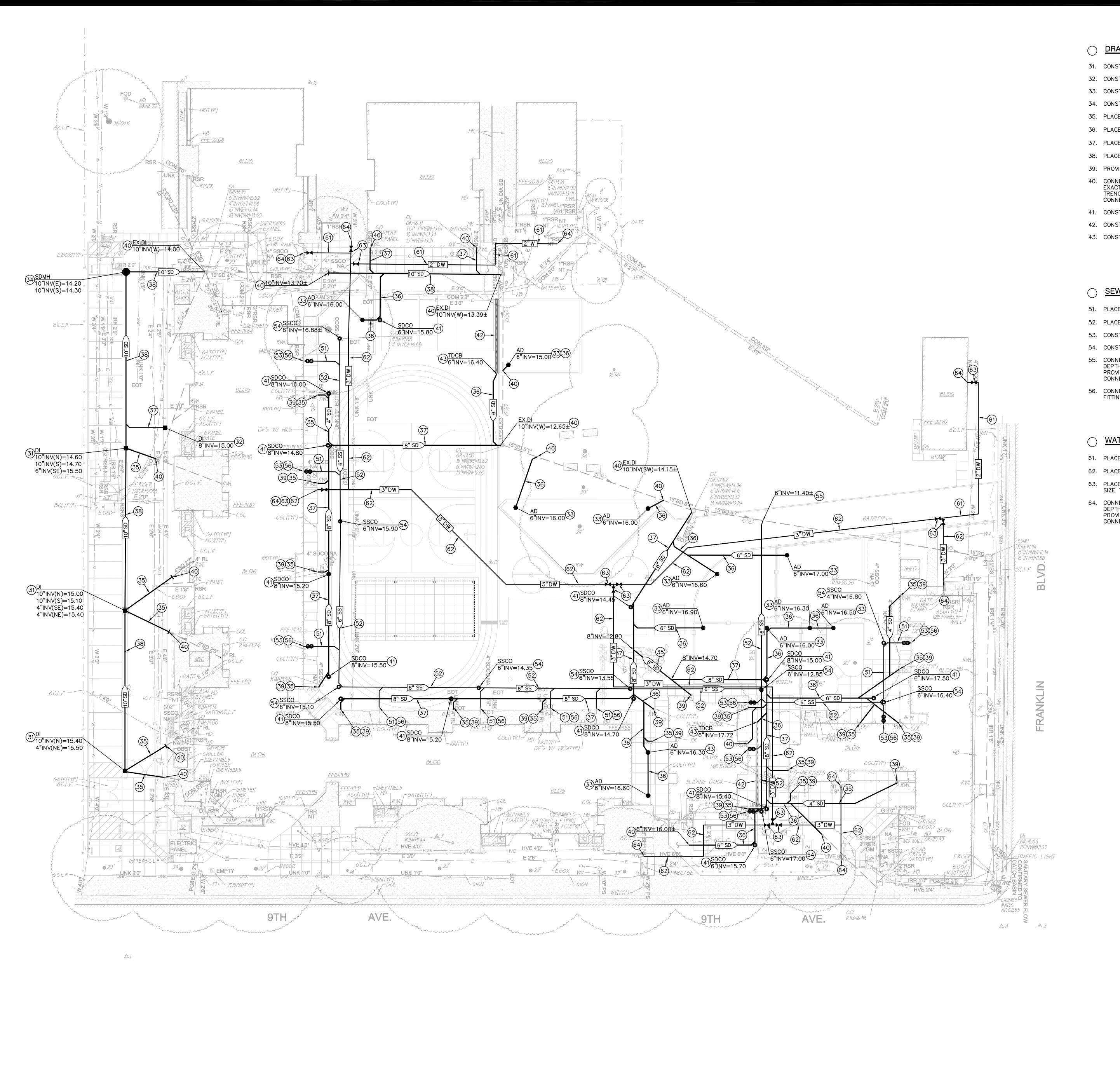
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DRAINAGE NOTES

31. CONSTRUCT DROP INLET PER

32. CONSTRUCT CURB INLET PER

33. CONSTRUCT AREA DRAIN PER

34. CONSTRUCT STORM DRAIN MANHOLE PER $\begin{pmatrix} 4 \\ C7.2 \end{pmatrix}$

35. PLACE 4" STORM DRAIN PER

36. PLACE 6" STORM DRAIN PER 37. PLACE 8" STORM DRAIN PER

38. PLACE 10" STORM DRAIN PER

39. PROVIDE DOWNSPOUT CONNECTION PER $\binom{6}{C7.2}$

40. CONNECT TO EXISTING STORM DRAIN. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE

41. CONSTRUCT STORM DRAIN CLEANOUT PER

42. CONSTRUCT TRENCH DRAIN PER

43. CONSTRUCT TRENCH DRAIN CATCH BASIN PER

SEWER NOTES

51. PLACE 4" SEWER PER 🔍

52. PLACE 6" SEWER PER 53. CONSTRUCT 2-WAY SEWER CLEANOUT PER

54. CONSTRUCT SEWER CLEANOUT PER — 55. CONNECT TO EXISTING SEWER. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

56. CONNECT TO BUILDING SEWER SERVICE. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

<u>WATER NOTES</u>

61. PLACE 2" WATER PER

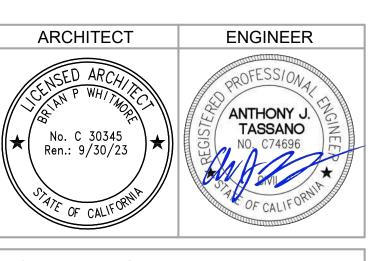
62. PLACE 3" WATER PER

63. PLACE GATE VALVE AND VALVE BOX. (7.2) SIZE TO MATCH LINE SIZE. 64. CONNECT TO EXISTING WATER. FIELD VERIFY EXACT DEPTH, LOCATION AND CONDITION PRIOR TO TRENCHING. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.

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KEY PLAN

Sacramento Unified School District 425 1st AVENUE

CONSTRUCTION DOCUMENTS

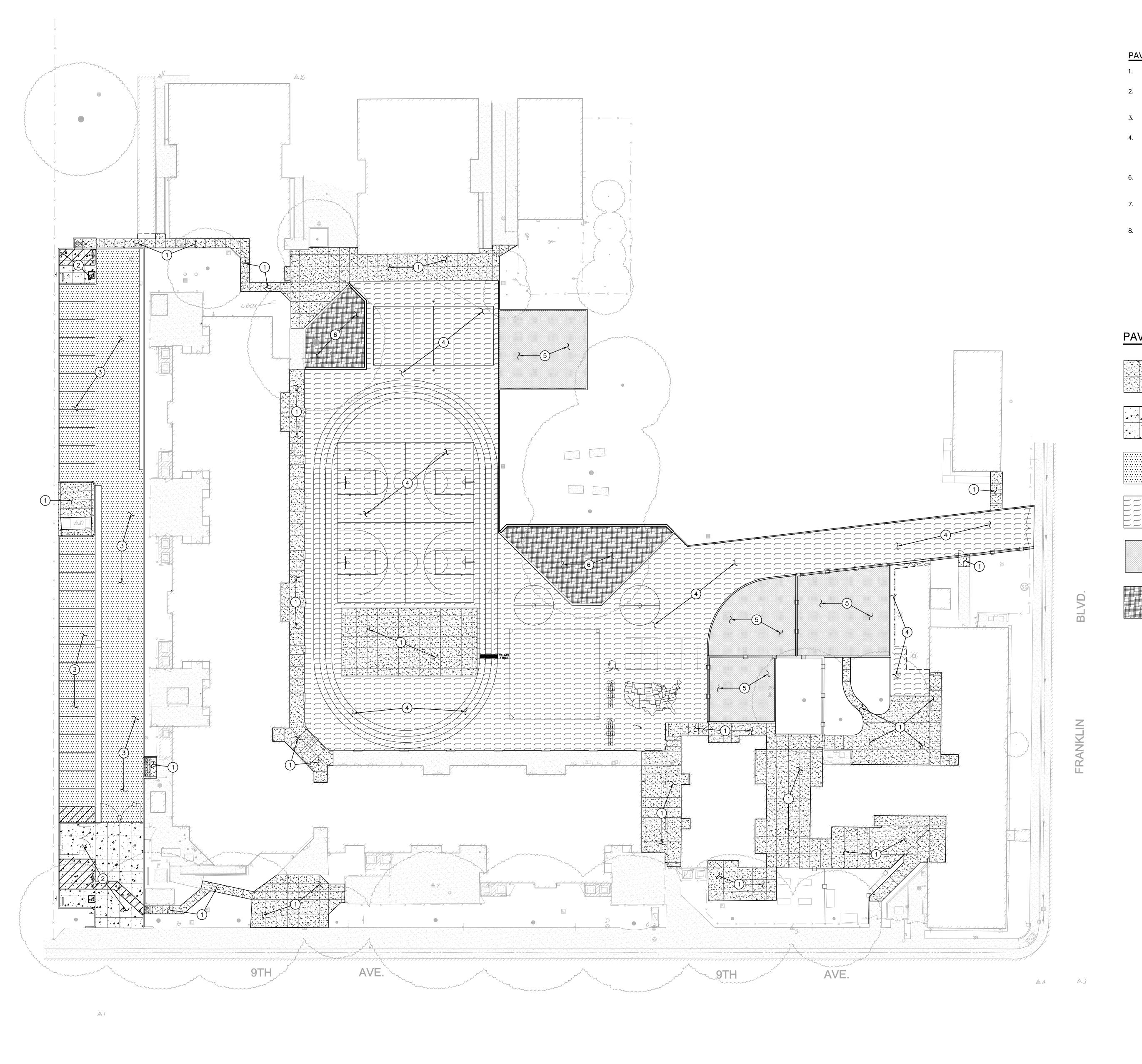
SACRAMENTO, CA 95818

SCUSD Bret Harte ES Hardcourt, Underground Utiilty Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

UTILITY PLAN

Project Number 01/24/2023 Drawing Number **AS SHOWN** Drawn Checked

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PAVING GENERAL NOTES:

- 1. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE.
- 2. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- 3. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB.
- 4. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, AND COMPACTION SHALL BE PERFORMED AFTER; A. POT HOLING ALL EXISTING UTILITIES. B. THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
- 6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE RESTORED.
- 7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- 8. ADJUST TO FINISH GRADE ALL BOXES, FRAMES, COVERS SLEEVES, POST HOLES, GRATES, ETC. FOUND IN NEW ASPHALT OR CONCRETE PAVING AREAS, WHICH ARE NOT NOTED FOR REMOVAL. REPLACE PER PLAN.

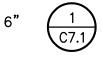
PAVING LEGEND

PLACE <u>5"</u> PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 16" (C7.1)

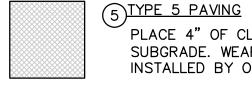


2 TYPE 2 PAVING PLACE <u>6"</u> PCC WITH #4 REBAR @ 18" O.C.E.W. OVER 6" CLASS II AB ON LIME TREATED SUBGRADE.

PLACE <u>3"</u> AC OVER 8" CLASS II AB ON LIME TREATED SUBGRADE. PLACE TWO (2) APPLICATIONS OF SEAL COAT.



PLACE <u>2.5"</u> AC OVER 4" CLASS II AB ON LIME TREATED SUBGRADE. PLACE TWO (2) APPLICATIONS OF SEAL COAT. RATED FOR IMPOSED LOAD OF FIRE APPARATUS WEIGHING UP TO 75,000 LBS. AS PER CFC APPENDIX D102.1



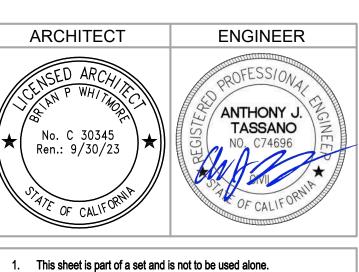
PLACE 4" OF CL2 AGGREGATE BASE ON LIME TREATED SUBGRADE. WEAR COURSE AND CUSHION LAYER TO BE INSTALLED BY OWNER.

PLACE <u>4"</u> BARK MULCH, UNTREATED, SHREDDED CEDAR.

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KEY PLAN

Sacramento Unified School **District**

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425 1st AVENUE

SACRAMENTO, CA 95818

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PAVING PLAN

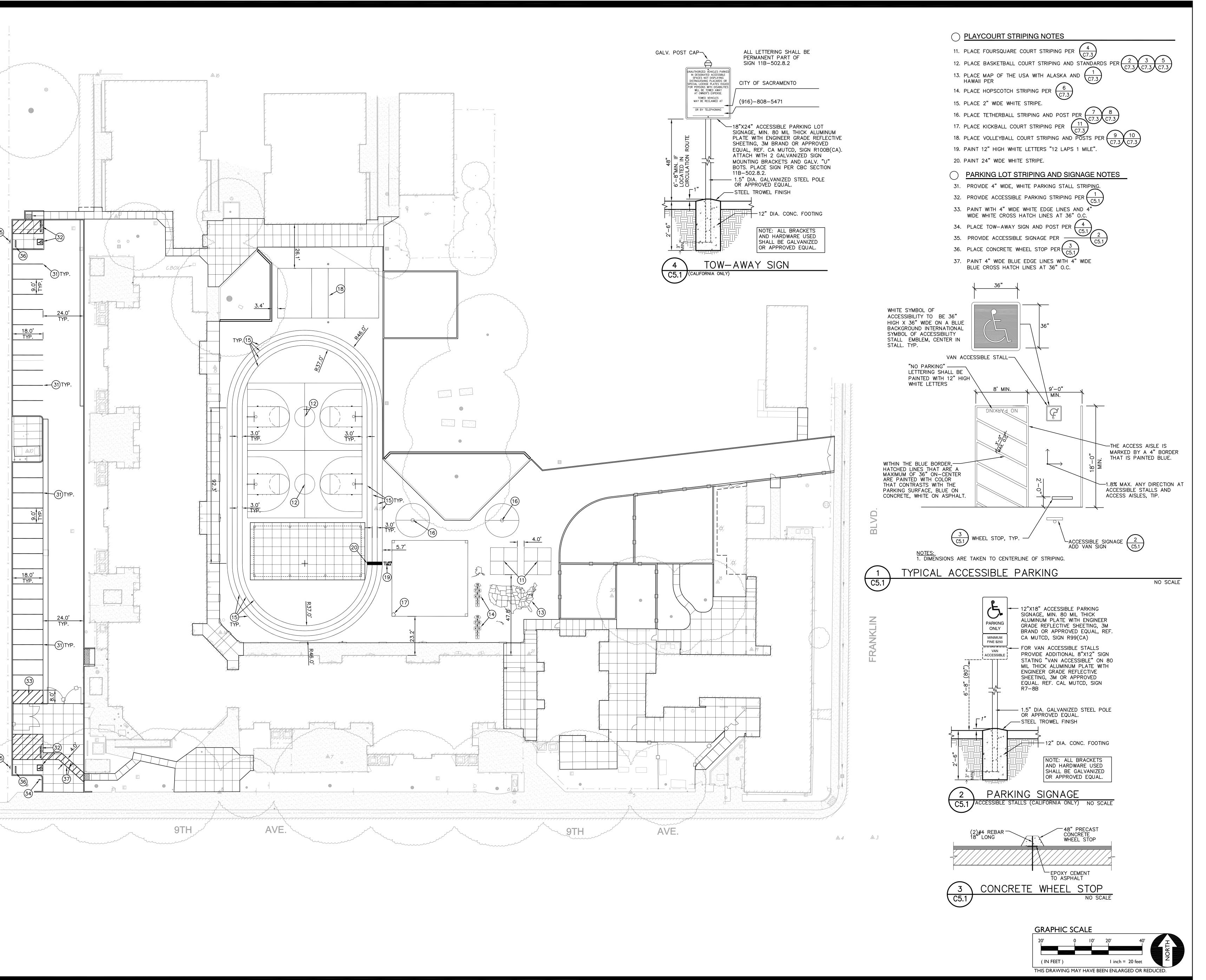
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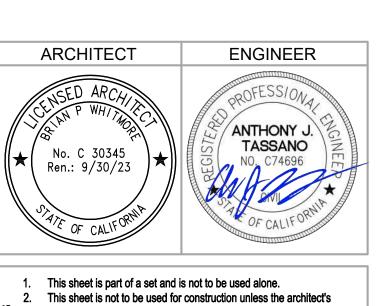
DATE: 02/08/2023



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STRIPING PLAN

Date
01/24/2023

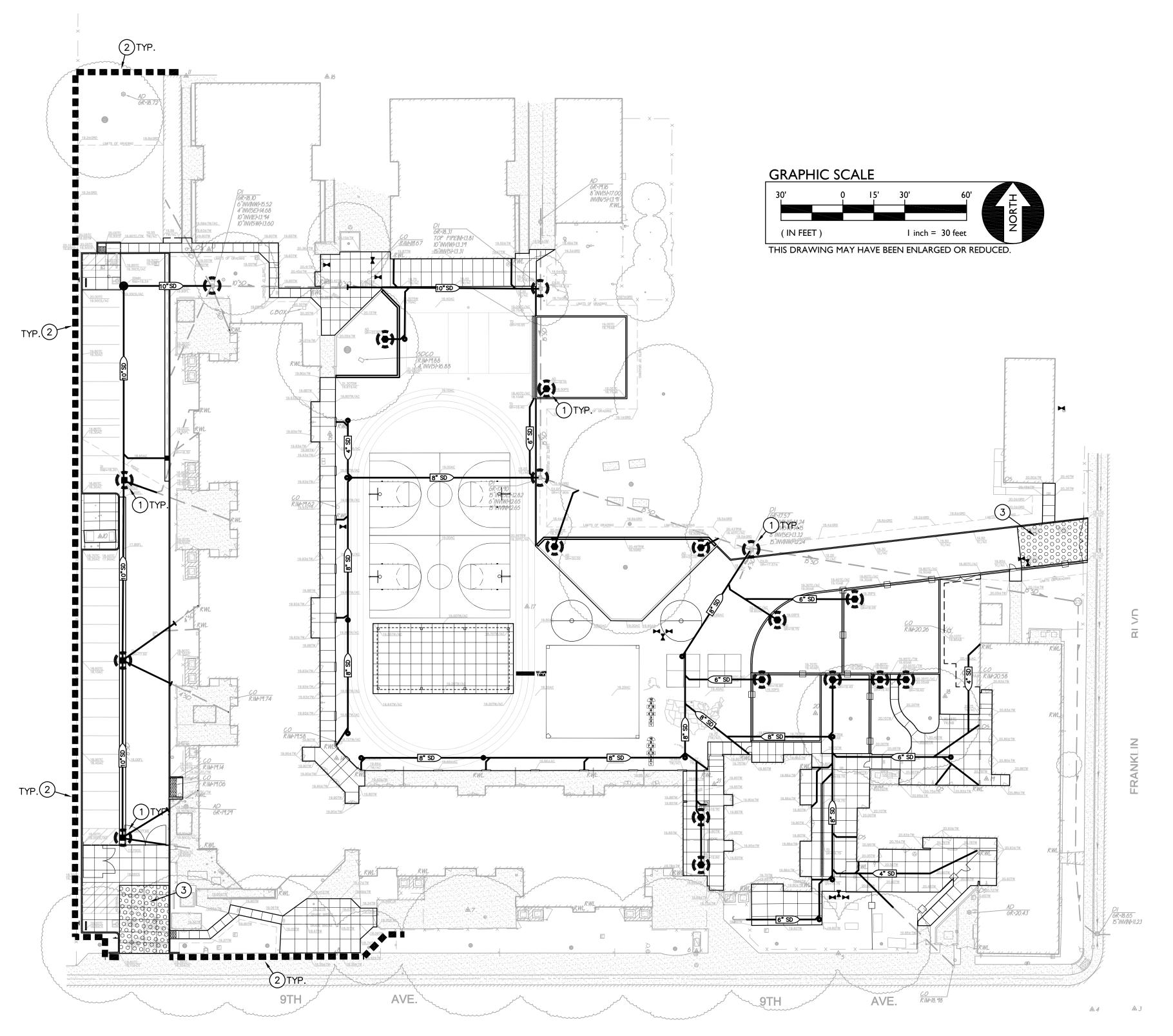
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Project Number
22035

Drawing Number

C5_1



PHASE OF	EROSION AND SEDIMENT CONTROL MEASURES																
CONSTRUCTION	WET SEASON											WET & DF	RY SEASON				
	HYDRO- SEEDING	STRAW MULCHING TACTIFIER	SOIL BINDERS	PRESERVATION OF EXISTING VEGITATION	BLANKETS MATS & GEOTEXTILES	FIBER ROLLS	DUST CONTROL	OUTLET PROTECTION	SILT FENCING	SAND/GRAVEL BAG BARRIERS	STORM DRAIN INLET PROTECTION	SEDIMENT BASIN	SEDIMENT TRAP	DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRETE
PRE-GRADING	Х	Х		X			Х		N/A			N/A	N/A				
CUT-FILL ACTIVITIES	Х	Х	Х	X	Х	Х	Х			Х	Х		Х	Х	Х	Х	
UNDERGROUND WORK	Х	Х	Х	X	Х	Х	Х	X		Х	X		Х	Х	Х	Х	Х
STORM IMPROVEMENTS	Х		Χ	X	X	Х	Х	X		X	X		X	X	Х	Х	Х
CURB AND GUTTER	N/A		Χ	X	X	Х	Χ	X		X	X			X	Χ	Х	Х
STREET IMPROVEMENTS			Х	X	X	Х	Х	X		Х	X			Х	Х	Х	Х
PAVE OUT				X	Х		Х	X		X	Х			Х		Х	Х
POST CONSTRUCTION			X	Х	Х												
MAINTENANCE SCHEDULE																	
DAILY*																	
WEEKLY*		Х	Χ		Х	Х		Х		Х	Х				X	Х	Х
MONTHLY*																	
BEFORE RAIN		Х	X		X	Х		X		Х	Х						
DURING RAIN		Х	X		X	Х		X		Х	Х						
AFTER RAIN		Х	X		X	Х		X		Х	Х						
AS NEEDED				Χ			Χ					1	T	Х			

EROSION CONTROL NOTES

NOTE: EXACT LOCATION WILL BE COORDINATED BY CONTRACTOR AND PROJECT QSP.

EXIST. (<u>0</u>) (<u>D</u>)

CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF ON-SITE WORK PER THE DETAIL PROVIDED. IN ADDITION TO WATTLE, PROVIDE FILTER BAG AT EACH INLET. STRAW WATTLES NOT REQUIRED AT INLETS IN

2. CONTRACTOR SHALL PROVIDE STRAW WATTLES AT $\binom{2}{C6.1}$

PAVED AREAS, ONLY FILTER BAG.

CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE (C6.1) ACCESS PER DETAIL

ANY CHANGES MADE TO THE SWPPP IN THE FIELD MUST BE SHOWN ON THE MAP. UPDATE MAP TO REFLECT CHANGES.

MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.

STORM DRAINAGE OUTFALL BMP'S
REFER TO PROTECT CONSTRUCTION PLAN DETAILS FOR SPECIFIC POST CONSTRUCTION BMP MEASURES AT OUTFALL STRUCTURES.

SEDIMENT AND EROSION CONTROL MEASURES ON SWPPP MAP ARE MINIMUM BMP'S RECOMMENDED FOR COMPLIANCE. CONSTRUCTION SITE MUST BE MONITORED AND BMP'S SHALL BE MODIFIED DEPENDING ON CONSTRUCTION SCHEDULE AND RAIN EVENTS.

ADD TO MAP AS LOCATED IN THE FIELD

CONSTRUCTION TRAILER.

VEHICLE/EQUIPMENT MAINTENANCE AND FUELING AREA.

COVERED WASTE STORAGE (DUMPSTERS).

STAGE | STAGING AREA

MATERIAL STORAGE (SP)

SOIL STOCKPILES.

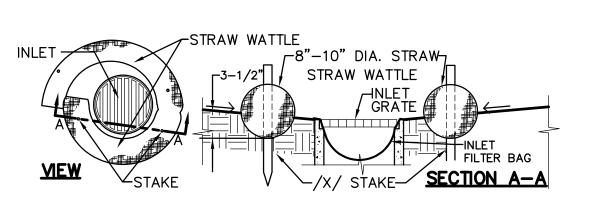
CWO CONCRETE WASHOUT.

MONITORING SCHEDULE

- WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO
- EACH QUALIFYING RAIN EVÈNT. . EVERY 24 HOURS DURING A QUALIFYING RAIN EVENT.
- WITHIN 2 BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT RÈSULTING IN 0.50 INCHES OF
- RAIN OR MORE. . RECORD THE TIME, DATE AND RAIN GAUGE READING
- OF ALL QUALIFYING RAIN EVENTS.
- QUARTERLY NON-STORM WATER DISCHARGE INSPECTIONS.
- WEEKLY INSPECTIONS.

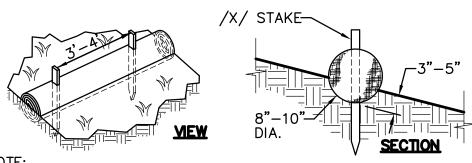
EROSION AND SEDIMENT CONTROL GENERAL NOTES

- 1. IF CERTAIN SOIL TYPES (E.G. COLLOIDAL SOILS) ARE DETECTED, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL TREATMENT MEASURES PRIOR TO DISCHARGE.
- 2. CONTRACTOR IS RESPONSIBLE FOR THE DEWATERING AND REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES JUST PRIOR TO THE
- COMMENCING OF THE FINAL GRADING AND PAVING OPERATIONS. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SITE TO MINIMIZE DUST CREATED DURING CONSTRUCTION.
- 4. PRIOR TO PLACEMENT OF HYDRO SEEDING, REMOVE TEMPORARY EROSION CONTROL MEASURES (STRAW WATTLE FENCE AND TRACKED LOOSE STRAW).
- 5. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPLIANCE WITH STATE WATER RESOURCES CONTROL BOARD REQUIREMENTS.
- 6. ALL MATERIALS STORED ON-SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS.
- 7. CONTRACTOR SHALL MAINTAIN ALL WATTLE OR SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AS WELL AS BEFORE, DURING, AND AFTER A STORM EVENT. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED. REFER TO SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.
- 8. CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION FENCING THROUGHOUT THE PROJECT. THIS FENCING SHALL DETER PEDESTRIANS AND NON-CONSTRUCTION RELATED PERSONNEL FROM ENTERING THE CONSTRUCTION SITE AREA TO THE GREATEST POSSIBLE EXTEND, THE CONTRACTOR SHALL COORDINATE THIS FENCING LAYOUT WITH SCHOOL DISTRICT PERSONNEL PRIOR TO ANY FENCING PLACEMENT SO AS TO NOT SIGNIFICANTLY INTERFERE WITH SCHOOL OPERATION.
- 9. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.
- 10. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.



NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3-1/2" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

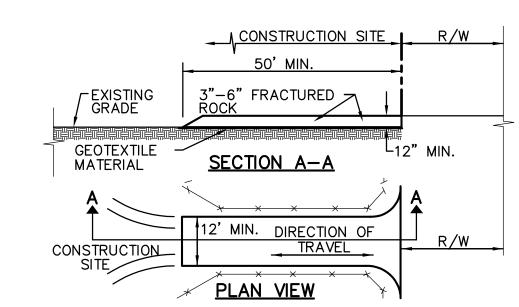




NOTE:

STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.





- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE 1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE
 CONSTRUCTED OF 3"-6" ANGULAR ROCK MATERIAL
 CONFORMING TO SECTION 26 OF STATE SPECIFICATIONS PLACED
 OVER GEOTEXTILE MATERIAL. ROCK SHALL BE PLACED TO A
 MINIMUM THICKNESS OF SIX INCHES. THE METHOD OF PLACING,
 SPREADING AND COMPACTING ROCK SHALL CONFORM TO
 SECTION 26 OF THE STATE SPECIFICATIONS.

 2. LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF
 FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE
 FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS
 AND EGRESS.
- AND EGRESS.

 3. THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.





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APP: 02-120968 INC:

DATE: 02/08/2023

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DSA PLAN CHECK DSA BACK CHECK BIDDING CONSTRUCTION

KEY PLAN

Sacramento Unified School

CONSTRUCTION DOCUMENTS

District

425 1st AVENUE

SACRAMENTO, CA 95818

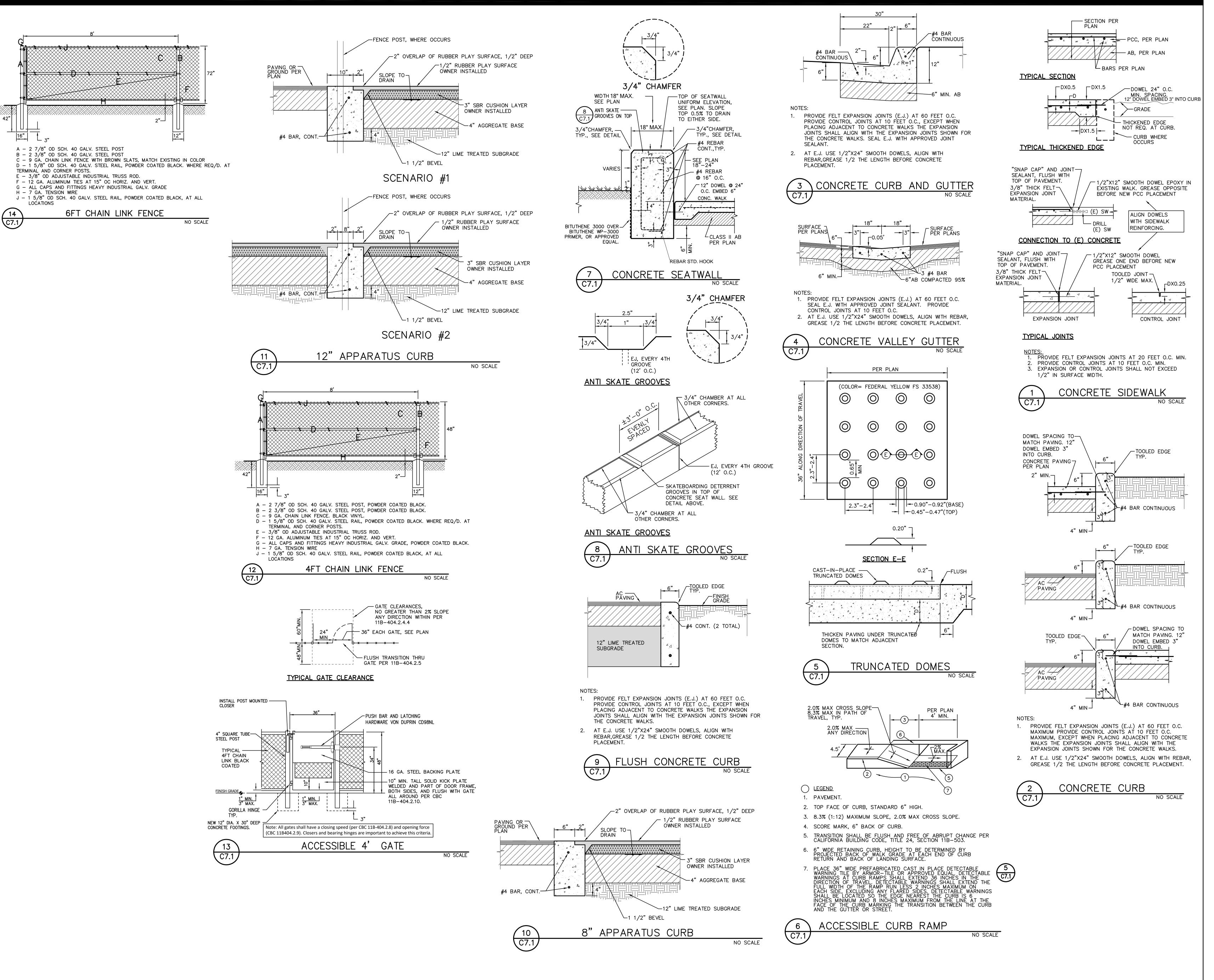
SCUSD Bret Harte ES Hardcourt, Underground Utiilty Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue

Sacramento, CA 95818

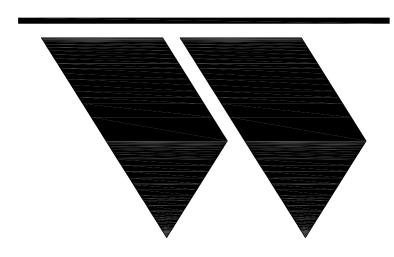
EROSION CONTROL PLAN

Project Number 01/24/2023 **Drawing Number AS SHOWN**

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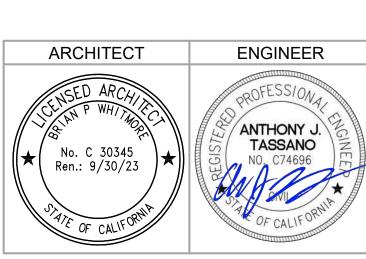


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DSA PLAN CHECK CONSTRUCTION

KEY PLAN

Sacramento Unified School District 425 1st AVENUE

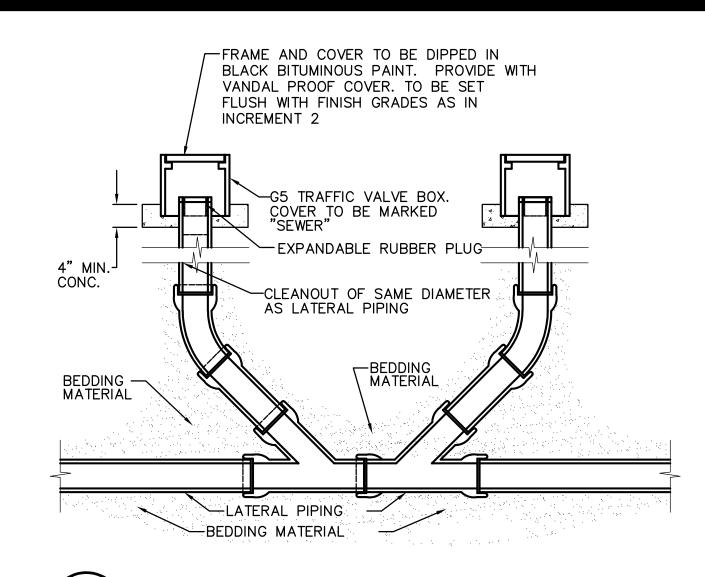
CONSTRUCTION DOCUMENTS

SACRAMENTO, CA 95818

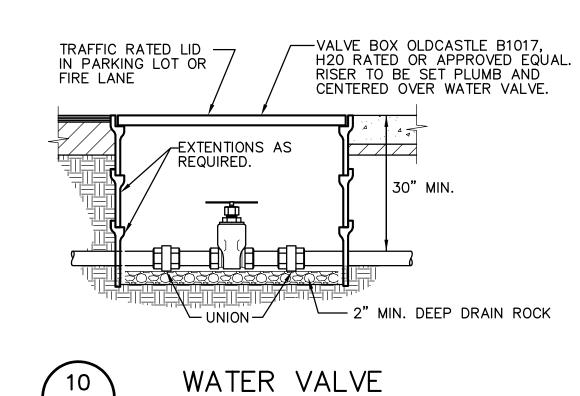
SCUSD Bret Harte ES Hardcourt, Underground Utiilty Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

> **DETAILS AND** SECTIONS

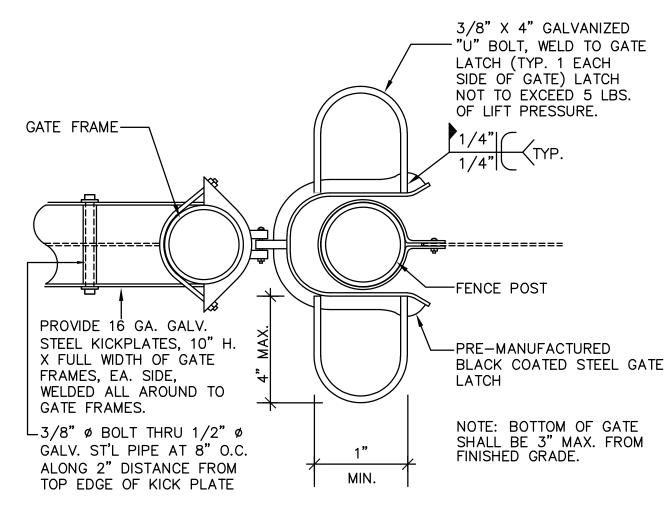
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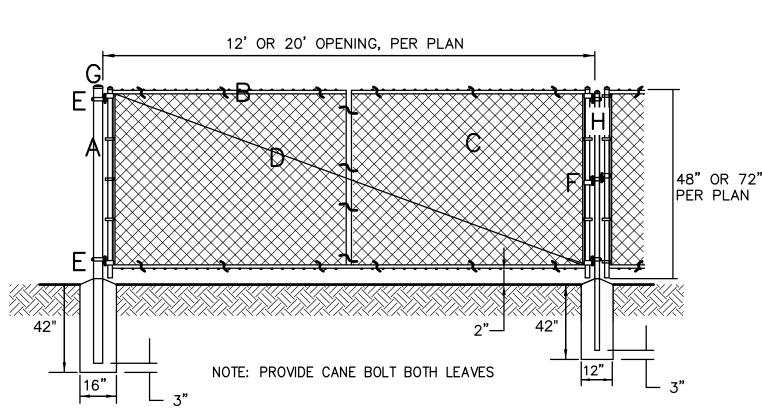
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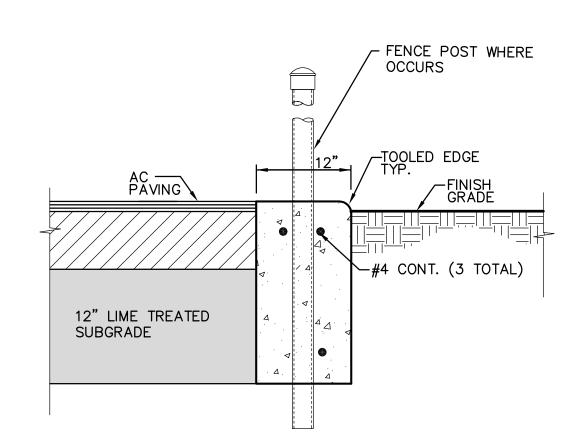






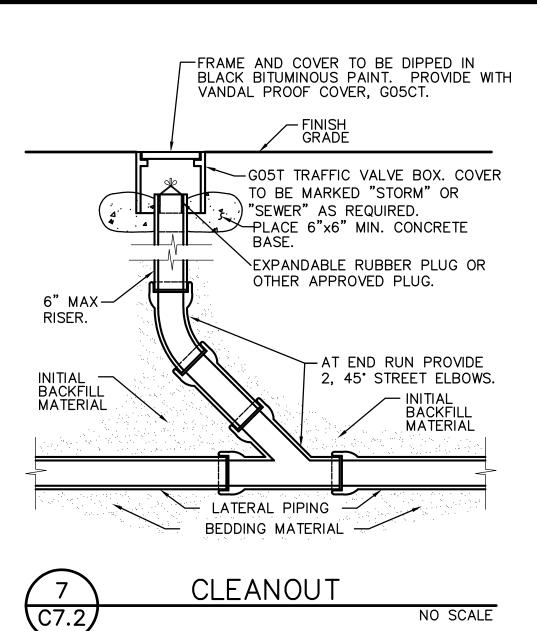
- A 4" OD SCH. 40 GALV. STEEL POST, POWDER COATED BLACK. B - 1 5/8" OD SCH. 40 WELDED GALV. STEEL FRAME, POWDER COATED BLACK. C - FABRIC TO MATCH FENCE.
- D 3/8" OD ADJUSTABLE INDUSTRIAL TRUSS ROD, POWDER COATED BLACK. E - 180 DEGREE PRESSED STEEL INDUSTRIAL HINGE.
- F 1 5/8" OD LOCKABLE INDUSTRIAL GALV. DROP ROD ASSEMBLY.
- G ALL CAPS AND FITTINGS HEAVY INDUSTRIAL GALV. GRADE, POWDER COATED BLACK. H - 2 3/8" OD SCH. 40 GALV. STEEL POST, POWDER COATED BLACK.

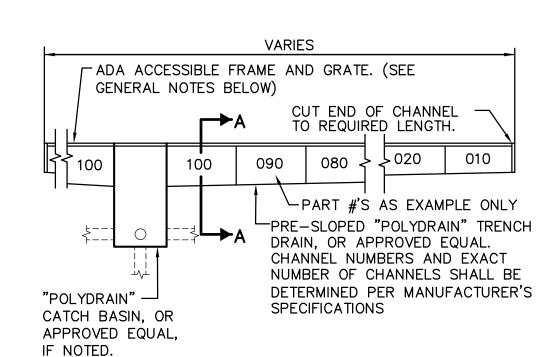


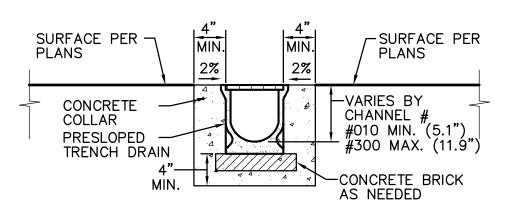


- NOTES:
- PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C., EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
- 2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE





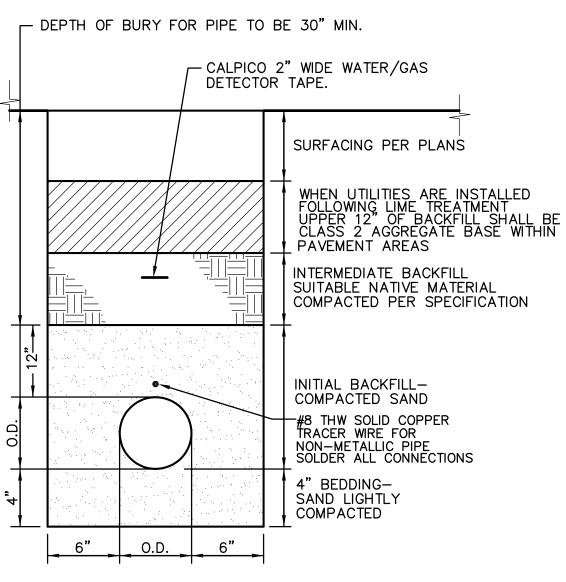




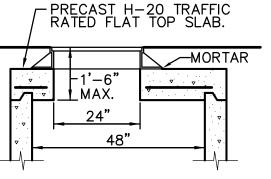
SECTION A-A **GENERAL NOTES:**

- 1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2410 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN
- . IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR APPROVED EQUAL.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH
- 5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINANCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
- 6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN

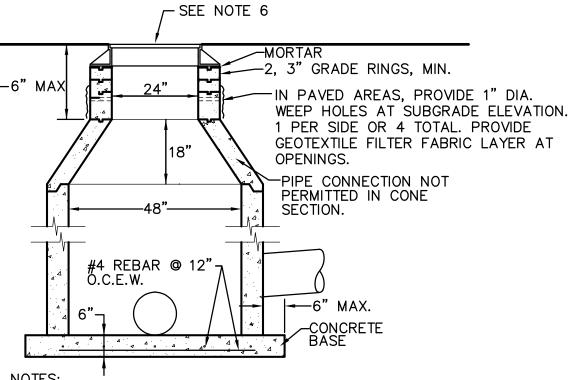






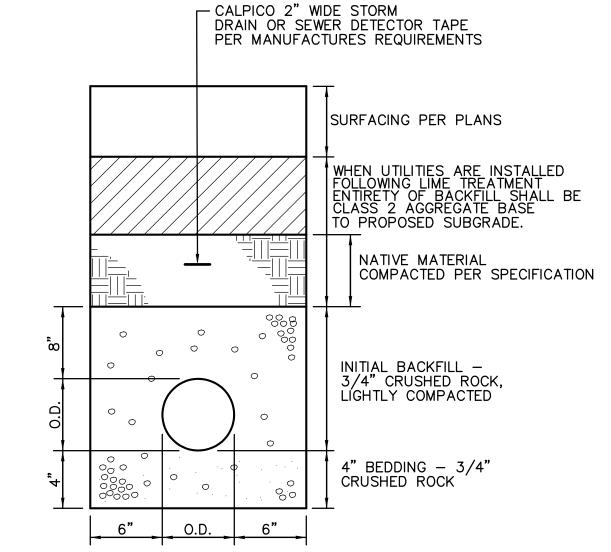


FLAT SLAB SECTION

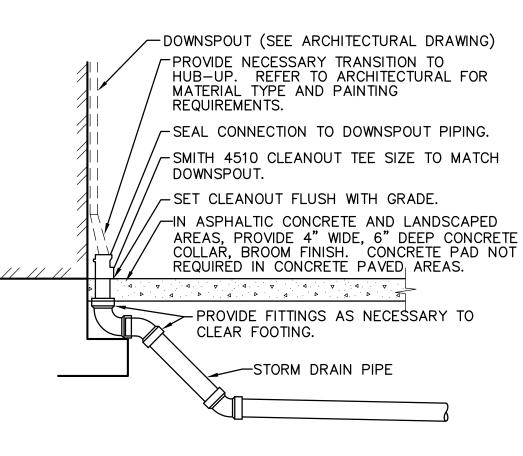


- 1. RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C-478.
- 2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
- 3. THE CONTRACTOR MAY AT HIS OPTION, CAST THE LOWER PORTION OF MANHOLE IN PLACE. THE CAST-IN-PLACE PORTION SHALL NOT BE PLACED HIGHER THAN 6 INCHES ABOVE THE OUTSIDE TOPS OF THE MAIN INCOMING AND OUTGOING PIPES.
- 4. ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
- 5. FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT. FLAT TOP SLAB TO BE TRAFFIC RATED.
- 6. SLOTTED CAST IRON GRATE AND FRAME SHALL BE D&L C2669 (C2669ADA IN PAVED AREAS) OR APPROVED EQUAL. PROVIDE WITH TWO (2) BOLTS TO BOLT COVER/GRATE TO FRAME. SOLID COVERS TO BE MARKED "STORM DRAIN". ALL CASTINGS TO BE DIPPED IN BLACK BITUMINOUS PAINT.

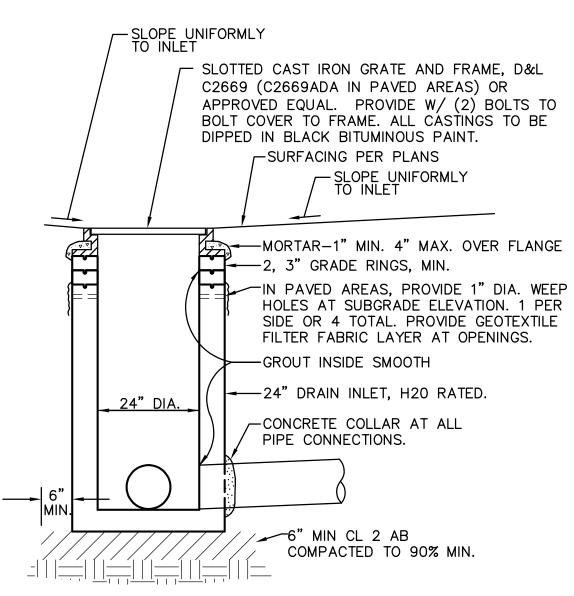








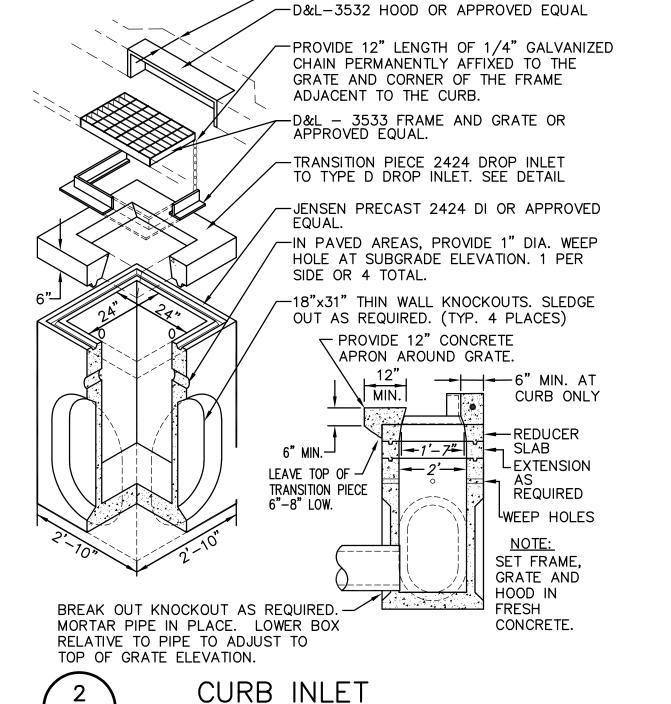


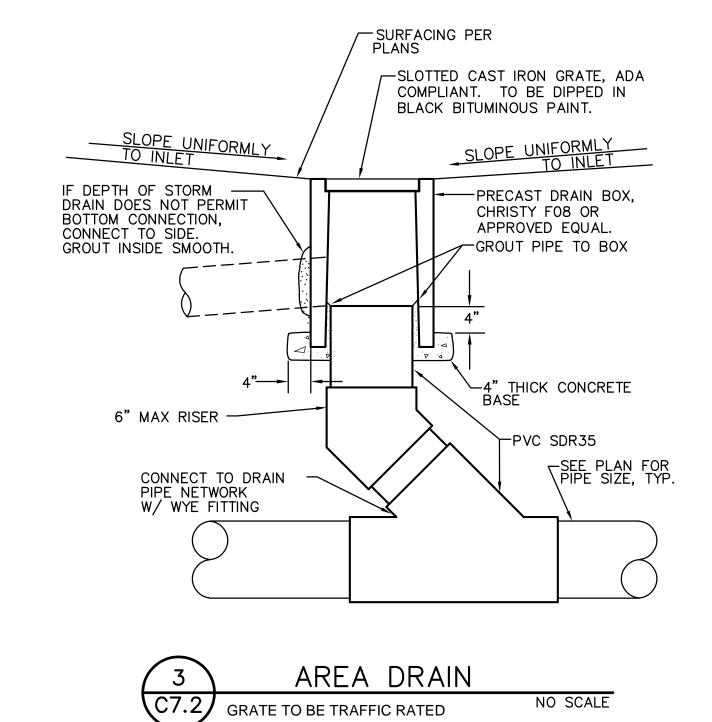


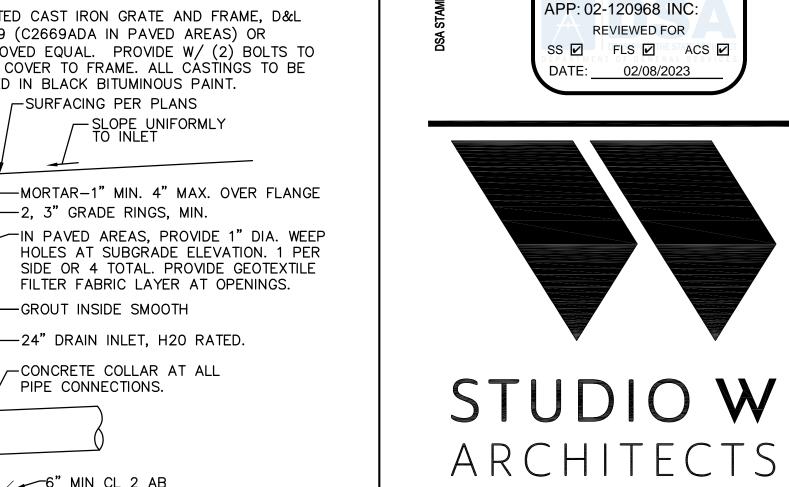


-EXTEND CURB 6" MIN. AROUND HOOD.

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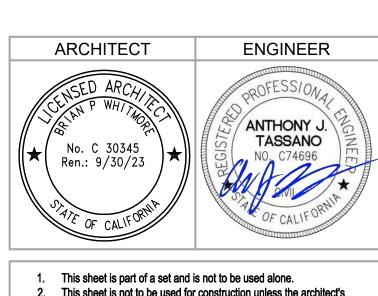




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BIDDING CONSTRUCTION

KEY PLAN

Sacramento Unified School District 425 1st AVENUE

SACRAMENTO, CA 95818

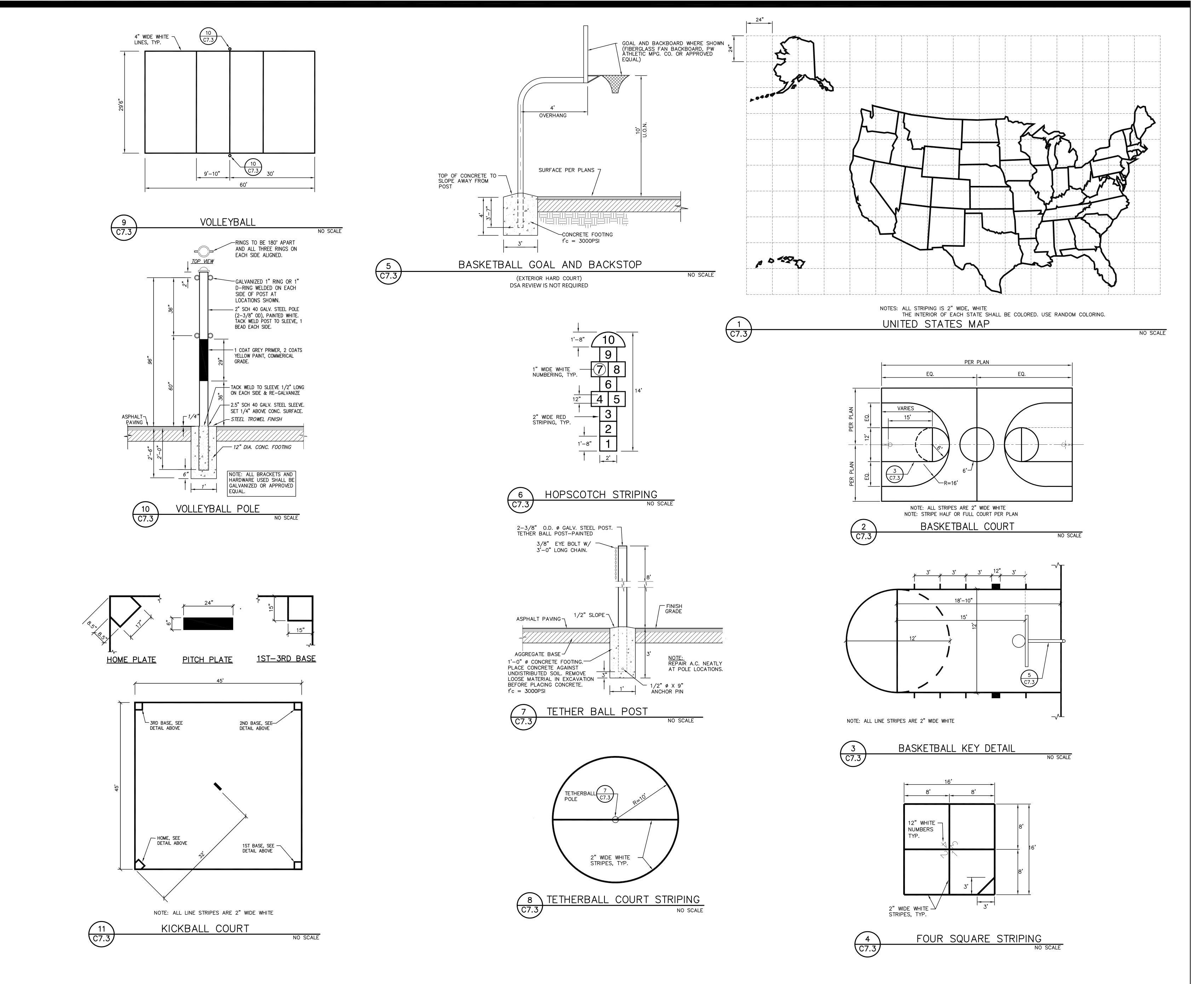
CONSTRUCTION DOCUMENTS

SCUSD Bret Harte ES Hardcourt, Underground Utility Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

> **DETAILS AND** SECTIONS

Project Number 22035 01/24/2023 Scale **Drawing Number AS SHOWN** Drawn Checked

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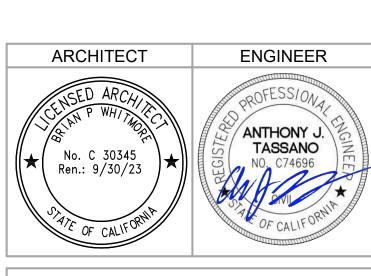
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ARCHITECTS



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CONSTRUCTION

KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

CONSTRUCTION DOCUMENTS

SACRAMENTO, CA 95818

SCUSD Bret Harte ES
Hardcourt, Underground Utiilty
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

DETAILS AND SECTIONS

Date
01/24/2023

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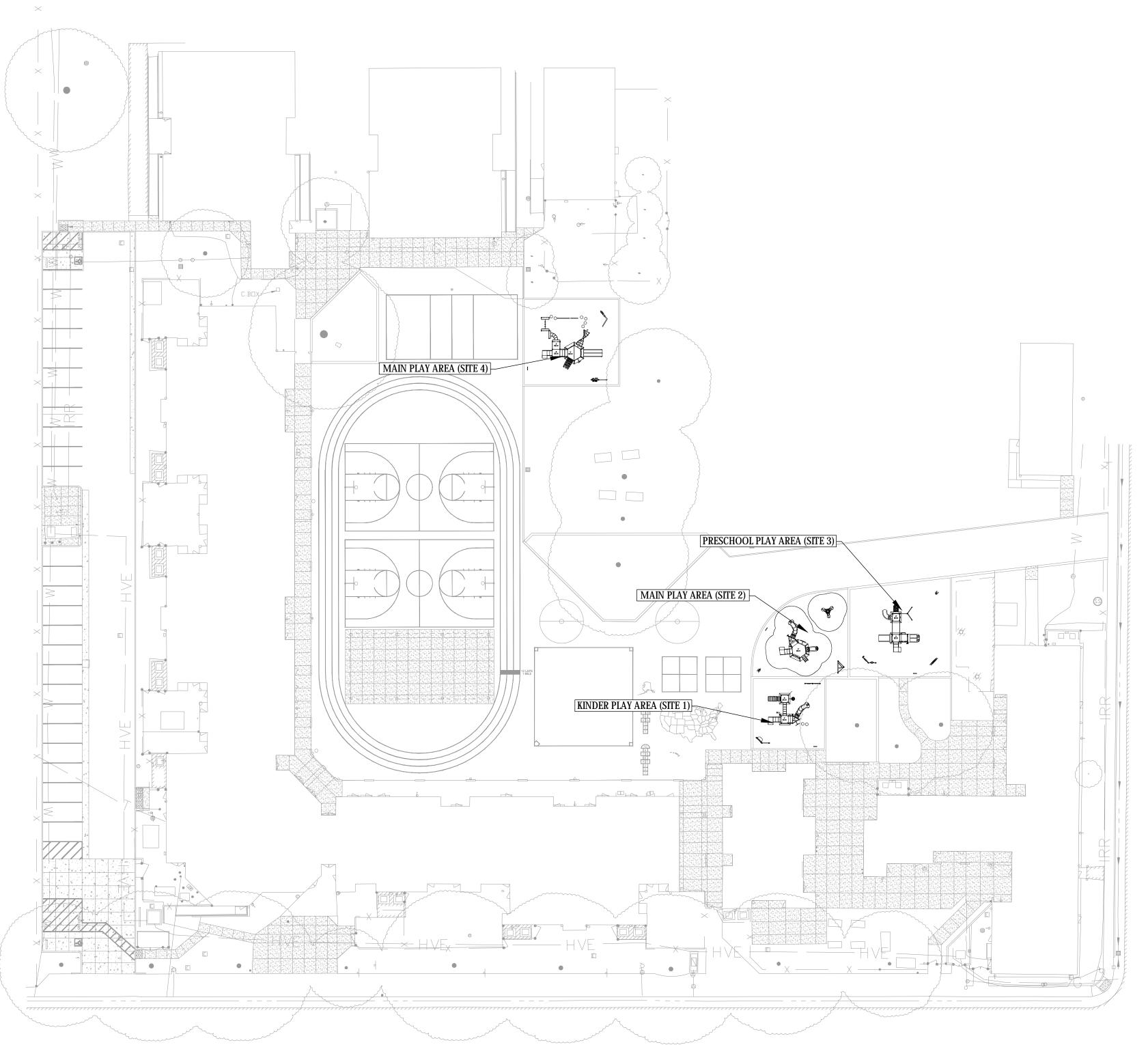
Project Number
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Drawing Number

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PLAYGROUND NOTES

- 1. EQUIPMENT TO BE PURCHASED AND INSTALLED BY THE OWNER.
- 2. PLAYGROUND SURFACE TO BE INSTALLED BY OWNER. SEE CIVIL PLANS FOR ADDITIONAL INFORMATION AND MATERIALS.
- COORDINATE WORK WITH OTHER TRADES. SUB-BASE PREPARATION, DRAINAGE, PLAY AREA PERIMETER AND FENCING TO BE INSTALLED PER CIVIL AND ARCHITECTURAL DRAWINGS.
- PLATFORM AND/OR DECK HEIGHTS SHOWN ON THE DRAWINGS ARE MEASURED FROM THE FINISHED GRADE OF THE PLAYGROUND SURFACE MATERIAL TO THE TOP OF THE PLATFORMS.
- 6. PROTECT INSTALLED EQUIPMENT FROM DAMAGE, BLEMISHES, OR INDICATION OF USE UNTIL COMPLETION AND
- CHECK DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCIES OR POSSIBLE DEFICIENCIES
- 8. SEE CIVIL DRAWINGS FOR SITE ACCESSIBILITY INFORMATION.
- 9. DSA REVIEW IS NOT REQUIRED FOR ALL PLAY STRUCTURES.



9TH AVENUE PLAYGROUND SITE PLAN

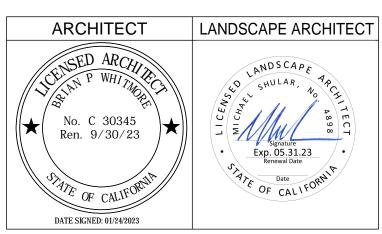
BOULEVARD

SCALE: 1"=30'-0"

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KEY PLAN

Sacramento Unified School **District**

425 1st AVENUE

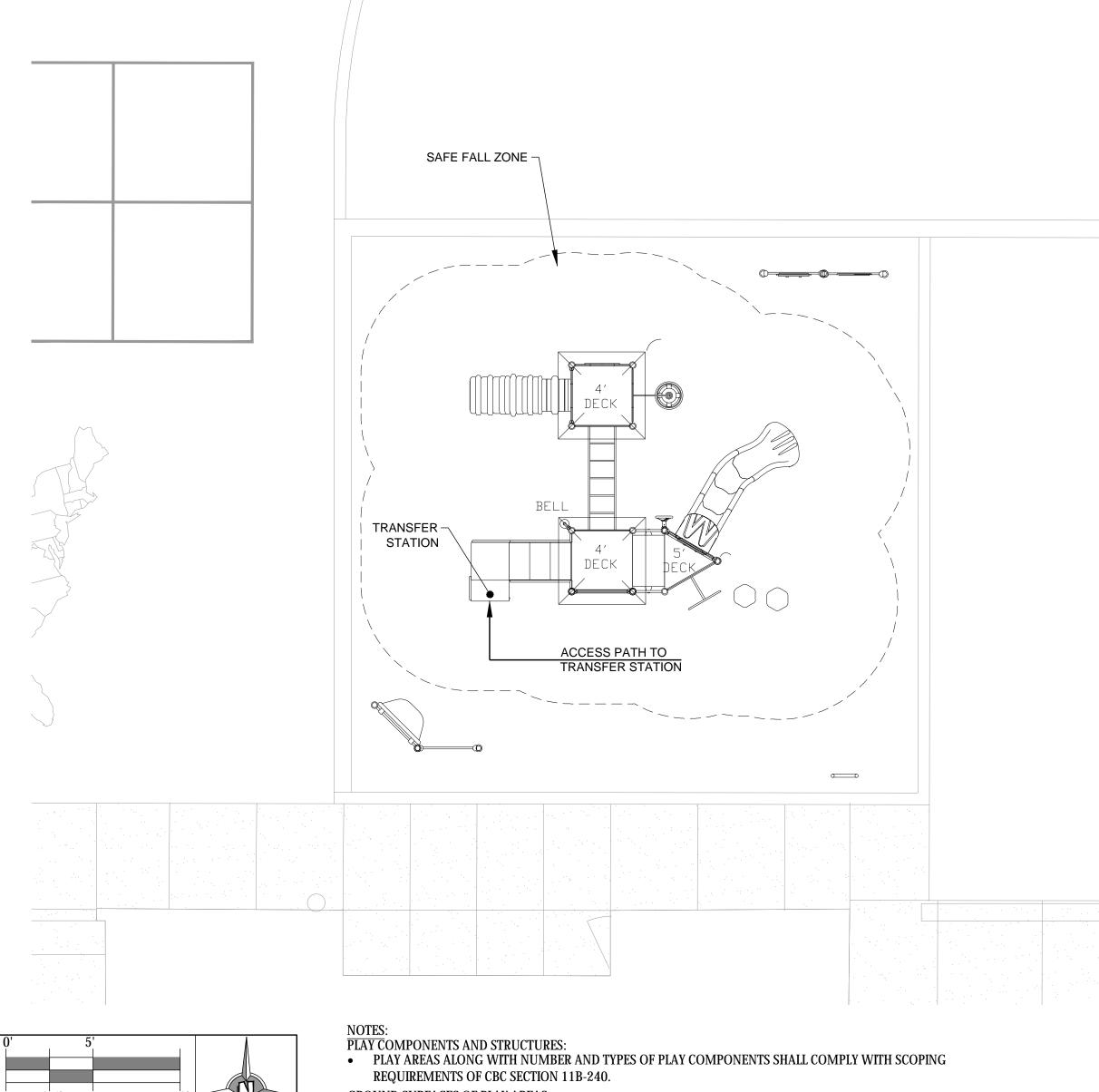
SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue Sacramento, CA 95818

PLAYGROUND SITE PLAN

Project Number Application Number 02-120968 Drawing Number Drawn Checked

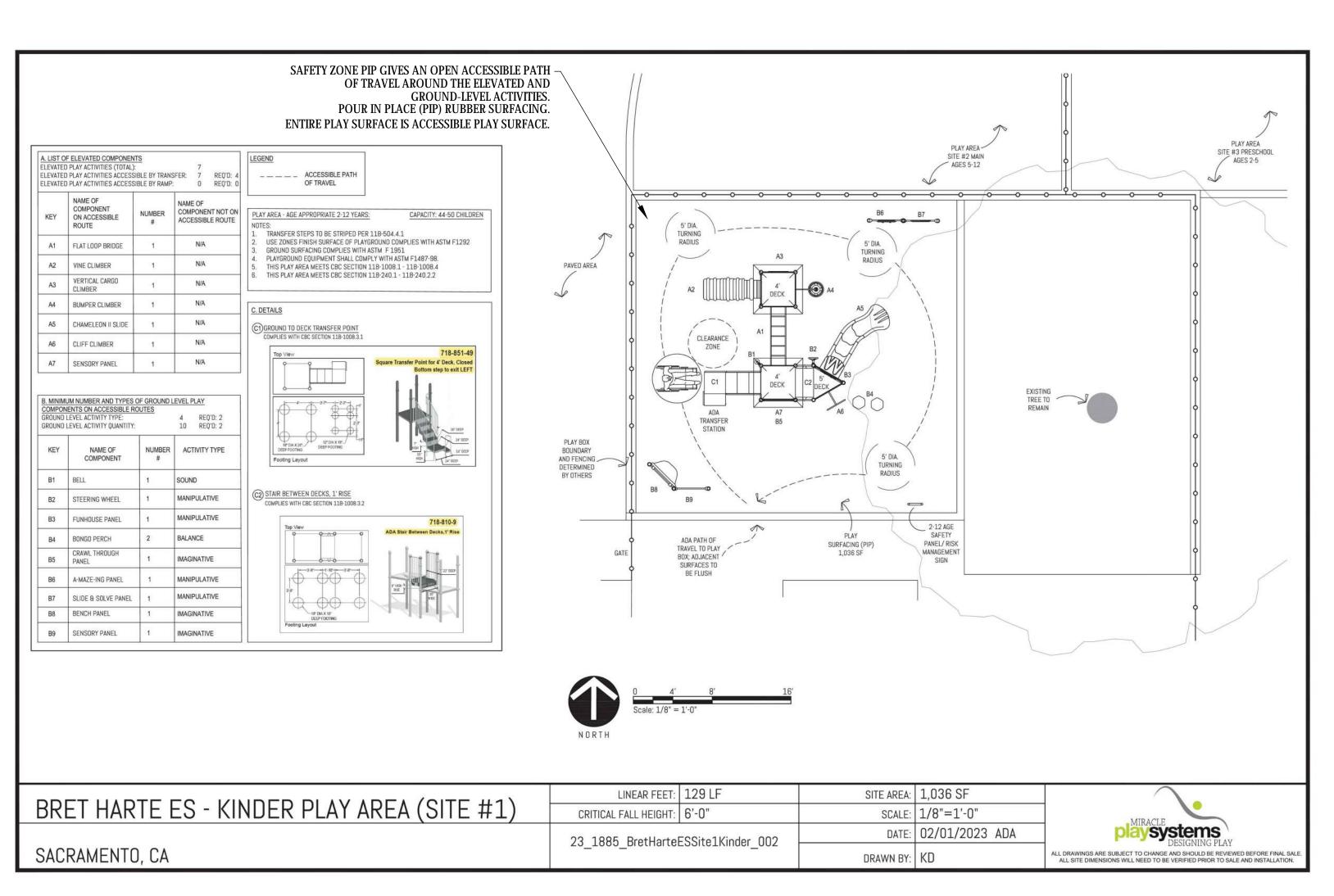


GROUND SURFACES OF PLAY AREAS:

- GROUND SURFACES ON ACCESSIBLE ROUTES, CLEAR FLOOR OR GROUND SPACES, AND TURNING SPACES FOR PLAY AREAS SHALL COMPLY WITH CBC SECTION 11B-1008.2.6 AS FOLLOWS: GROUND SURFACES SHALL BE INSPECTED AND MAINTAINED REGULARLY AND FREQUENTLY TO ENSURE
- CONTINUED COMPLIANCE WITH ASTM F 1951.
- GROUND SURFACES LOCATED WITHIN USE ZONES SHALL COMPLY WITH ASTM F 1292 (1999 EDITION OR

DSA REVIEW IS NOT REQUIRED FOR ALL PLAY STRUCTURES.

PLAYGROUND SITE 1

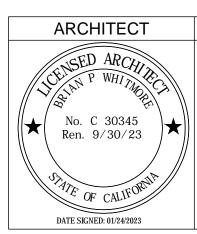


PLAY STRUCTURE ACCESSIBILITY EXHIBIT

APP: 02-120968 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹



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KEY PLAN

Sacramento Unified School **District** 425 1st AVENUE

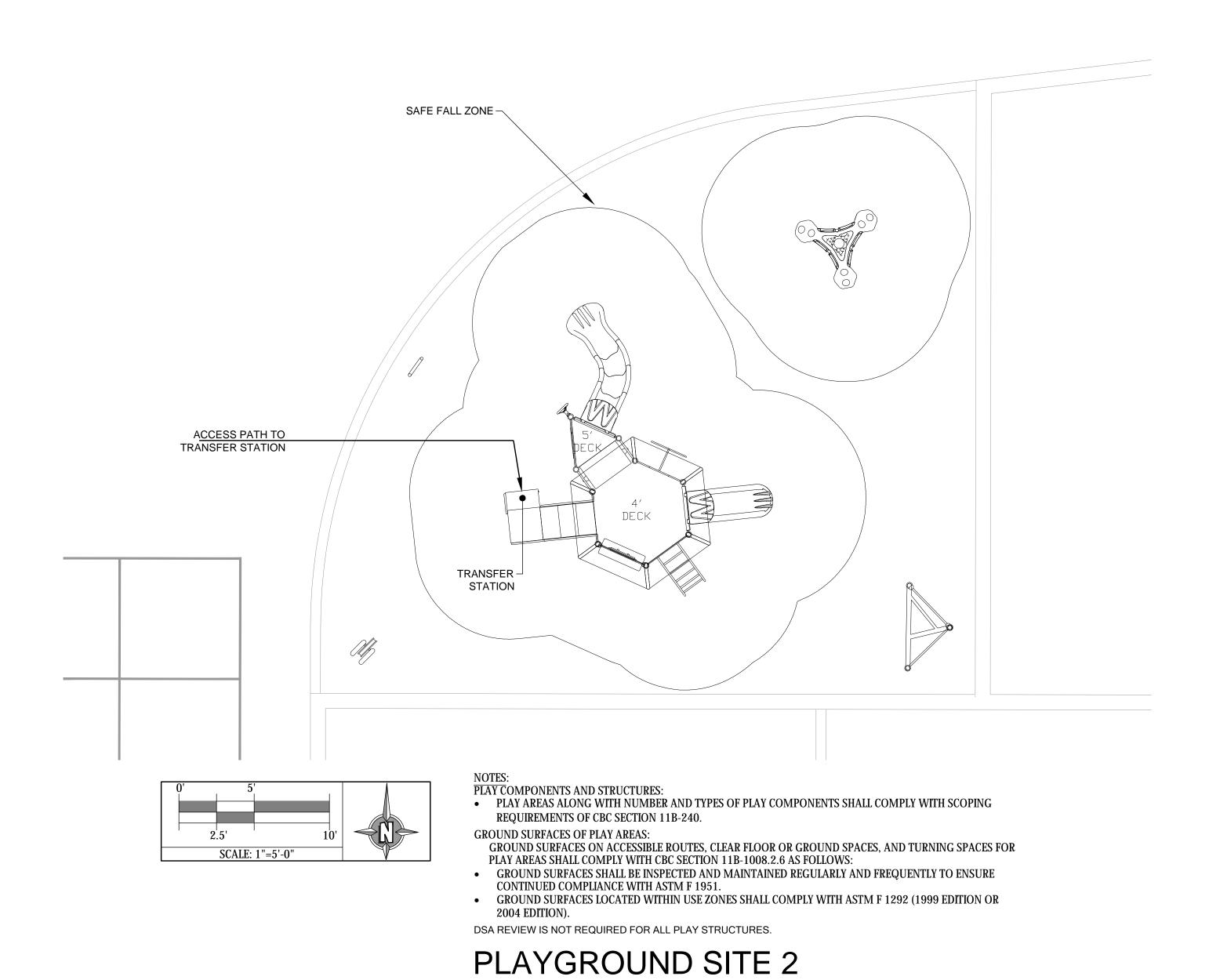
SACRAMENTO, CA 95818

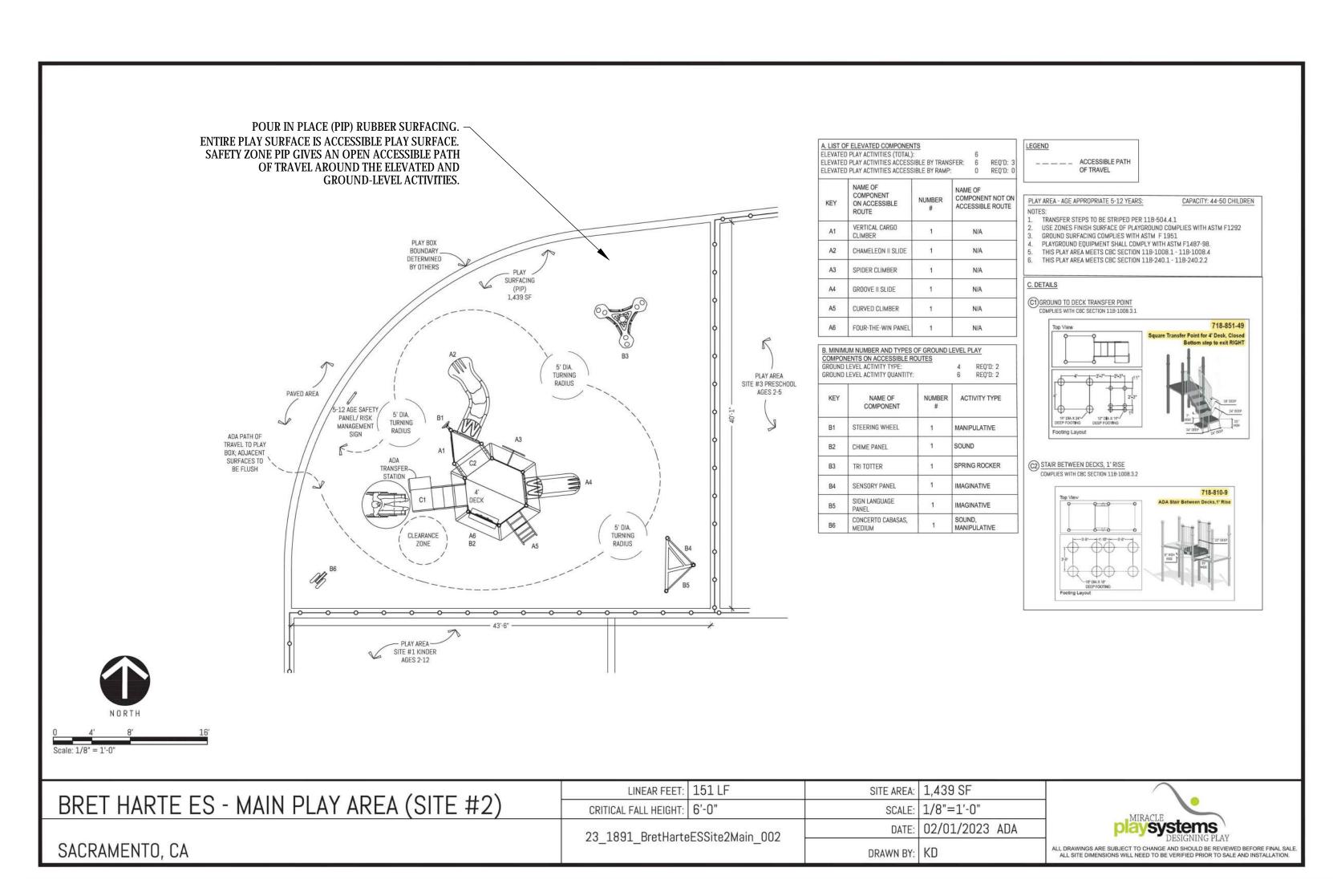
PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue Sacramento, CA 95818

> **PLAYGROUND ENLARGEMENTS**

Project Number Application Number 02-120968 Drawing Number Drawn Checked





PLAY STRUCTURE ACCESSIBILITY EXHIBIT

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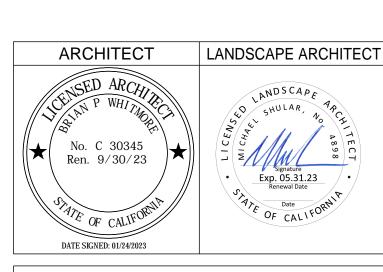
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KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

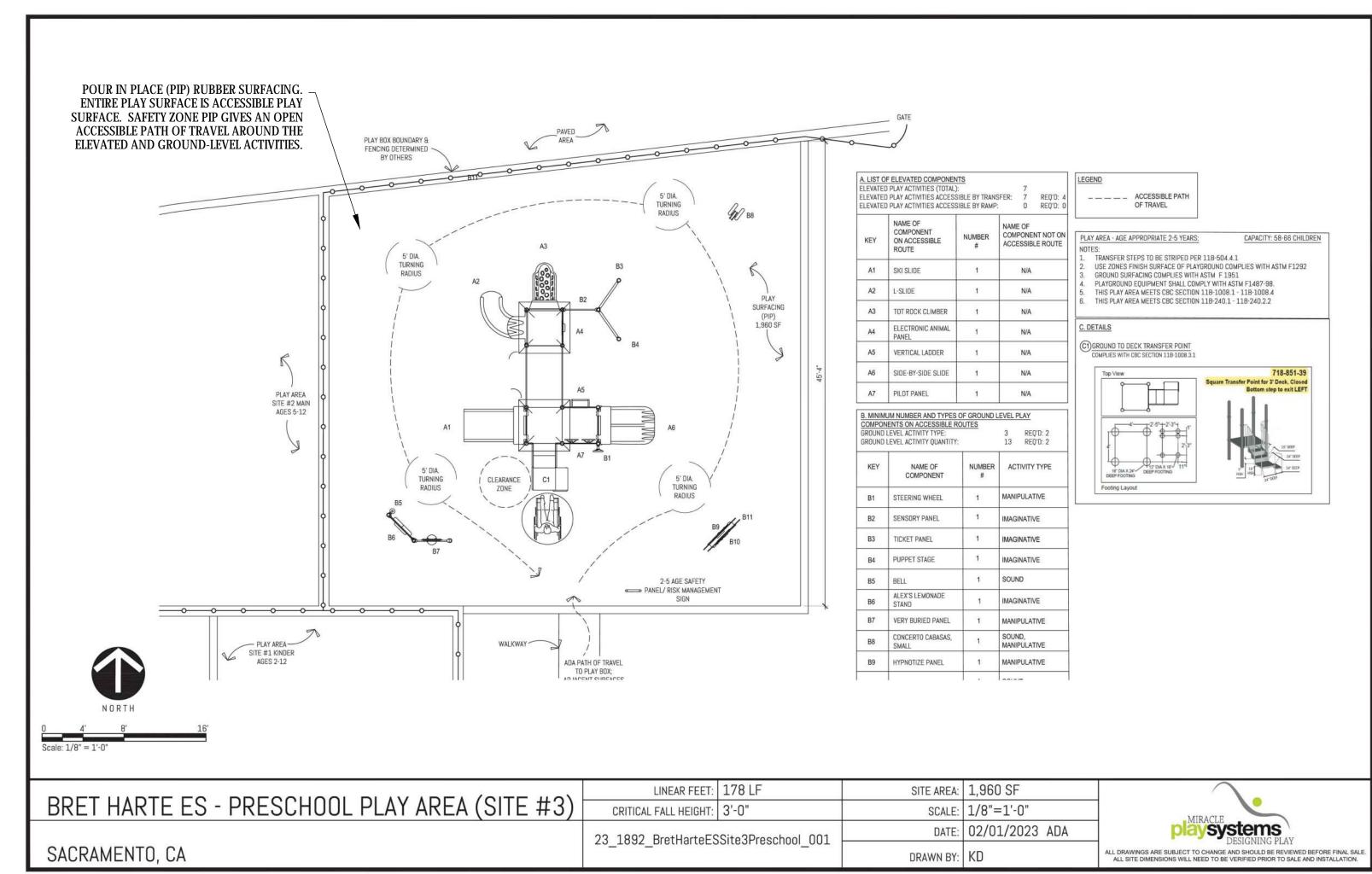
PROJECT STATUS

SCUSD Bret Harte ES
Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

SACRAMENTO, CA 95818

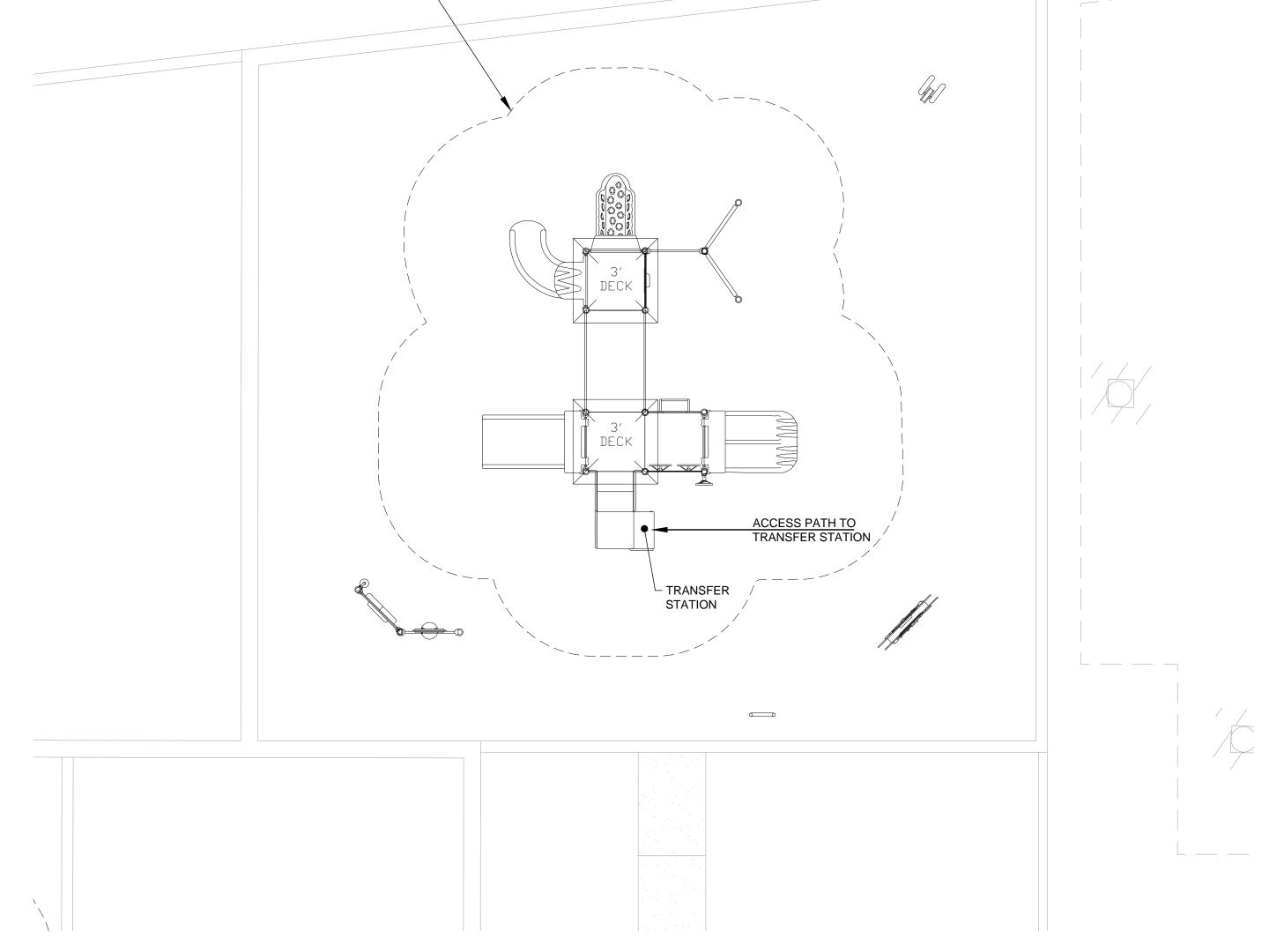
PLAYGROUND ENLARGEMENTS

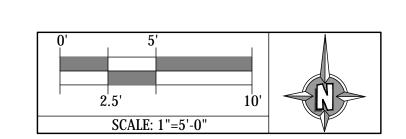
Date 02/6/2023 Application Number 02-120968 Drawn Checked MS MS		Project Number 22035 Drawing Number		
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PLAY STRUCTURE ACCESSIBILITY EXHIBIT







SAFE FALL ZONE -

 PLAY AREAS ALONG WITH NUMBER AND TYPES OF PLAY COMPONENTS SHALL COMPLY WITH SCOPING REQUIREMENTS OF CBC SECTION 11B-240.

GROUND SURFACES ON ACCESSIBLE ROUTES, CLEAR FLOOR OR GROUND SPACES, AND TURNING SPACES FOR PLAY AREAS SHALL COMPLY WITH CBC SECTION 11B-1008.2.6 AS FOLLOWS:

• GROUND SURFACES SHALL BE INSPECTED AND MAINTAINED REGULARLY AND FREQUENTLY TO ENSURE CONTINUED COMPLIANCE WITH ASTM F 1951.

• GROUND SURFACES LOCATED WITHIN USE ZONES SHALL COMPLY WITH ASTM F 1292 (1999 EDITION OR

DSA REVIEW IS NOT REQUIRED FOR ALL PLAY STRUCTURES.

GROUND SURFACES OF PLAY AREAS:

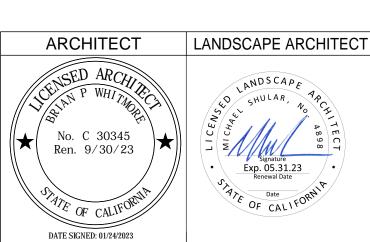
PLAYGROUND SITE 3

Application Number 02-120968

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KEY PLAN

Sacramento Unified School **District** 425 1st AVENUE

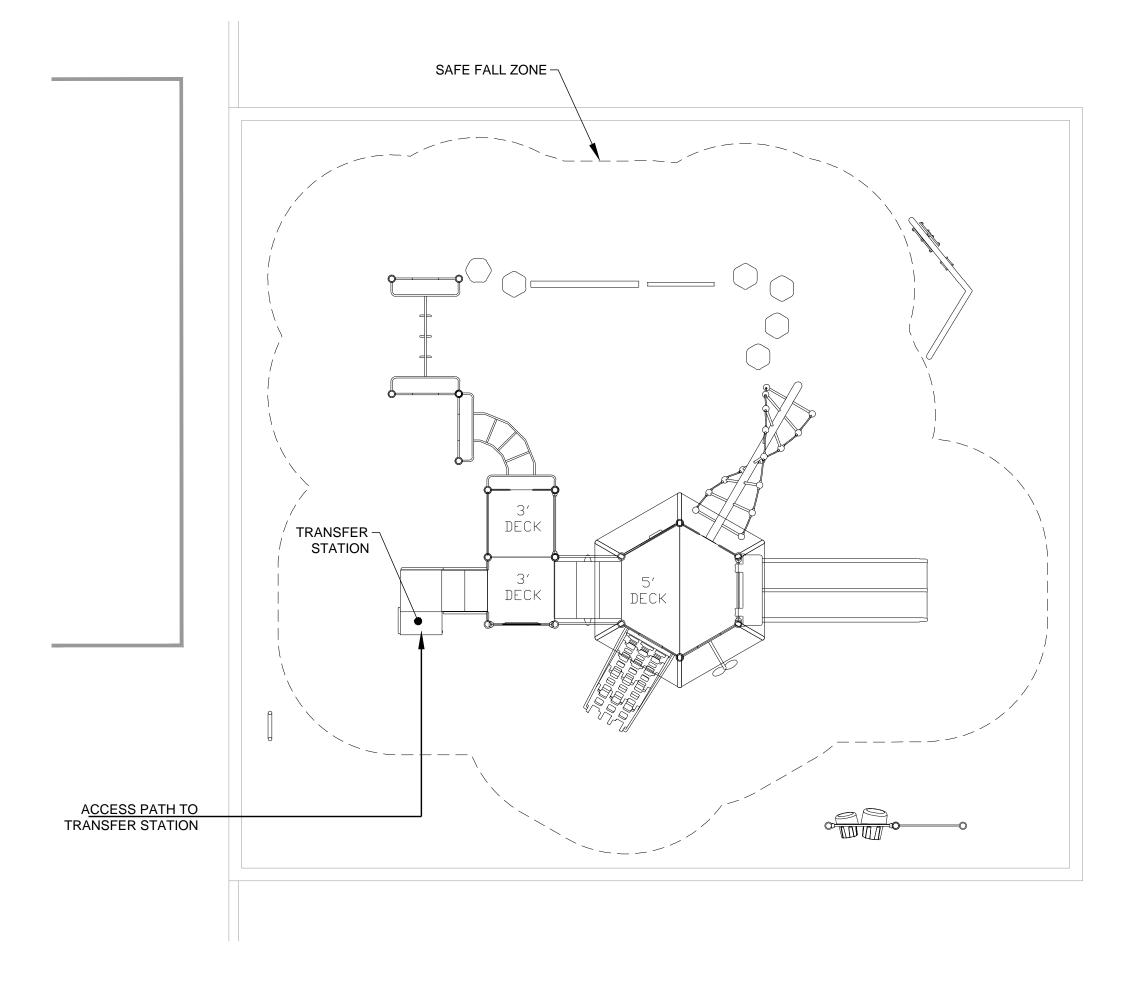
SACRAMENTO, CA 95818

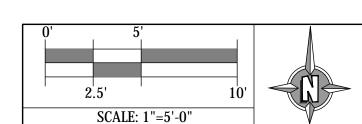
PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue Sacramento, CA 95818

> **PLAYGROUND ENLARGEMENTS**

Project Number Drawing Number Drawn Checked





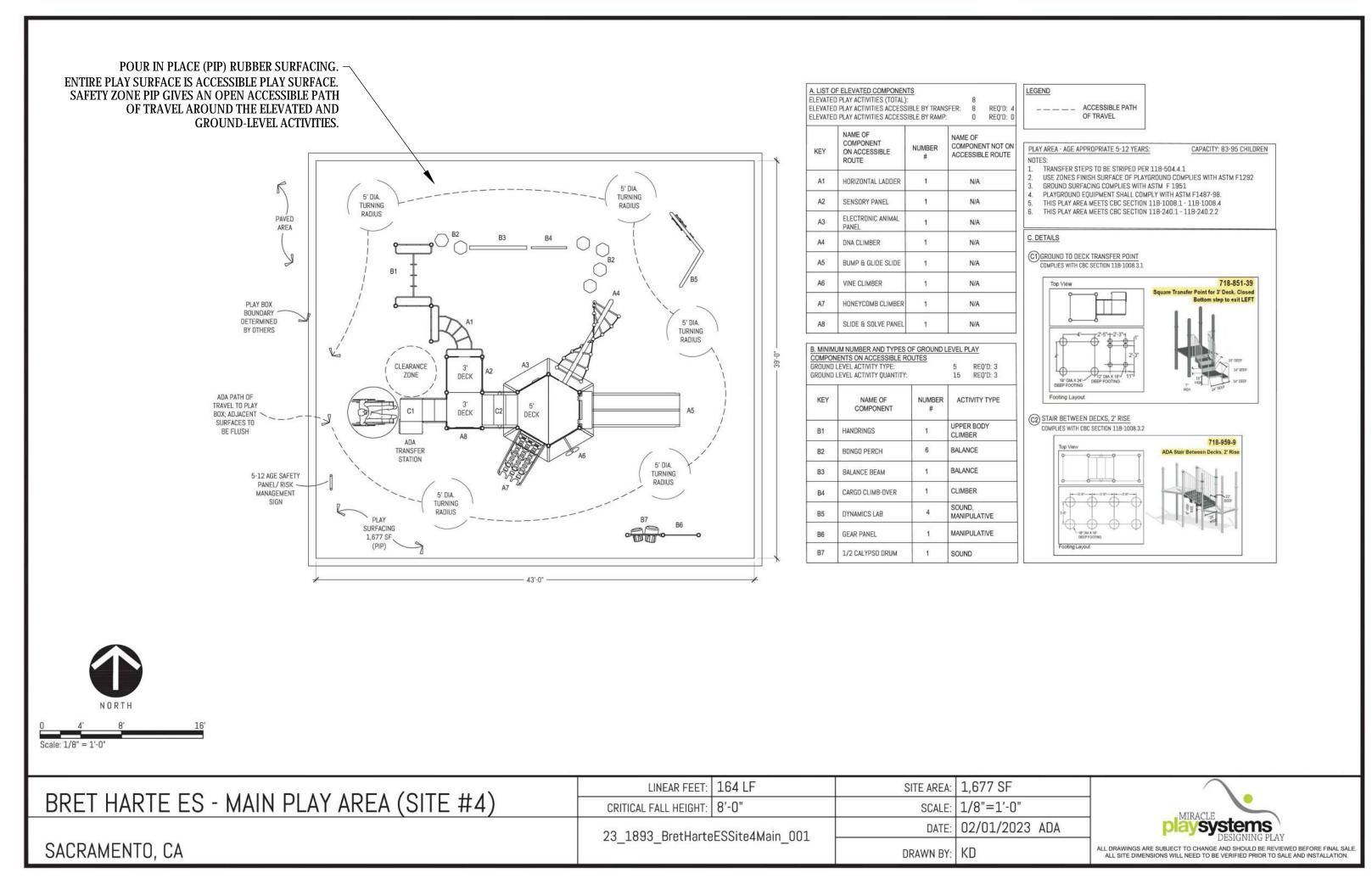
NOTES: PLAY COMPONENTS AND STRUCTURES:

GROUND SURFACES OF PLAY AREAS:

- PLAY AREAS ALONG WITH NUMBER AND TYPES OF PLAY COMPONENTS SHALL COMPLY WITH SCOPING REQUIREMENTS OF CBC SECTION 11B-240.
- GROUND SURFACES ON ACCESSIBLE ROUTES, CLEAR FLOOR OR GROUND SPACES, AND TURNING SPACES FOR PLAY AREAS SHALL COMPLY WITH CBC SECTION 11B-1008.2.6 AS FOLLOWS:
- GROUND SURFACES SHALL BE INSPECTED AND MAINTAINED REGULARLY AND FREQUENTLY TO ENSURE CONTINUED COMPLIANCE WITH ASTM F 1951.
- GROUND SURFACES LOCATED WITHIN USE ZONES SHALL COMPLY WITH ASTM F 1292 (1999 EDITION OR 2004 EDITION).

DSA REVIEW IS NOT REQUIRED FOR ALL PLAY STRUCTURES.

PLAYGROUND SITE 4



PLAY STRUCTURE ACCESSIBILITY EXHIBIT

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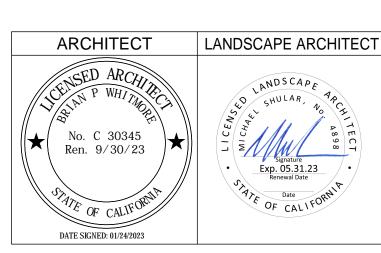
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DATE: 02/08/2023



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KEY PLAN

Sacramento Unified School
District
425 1st AVENUE

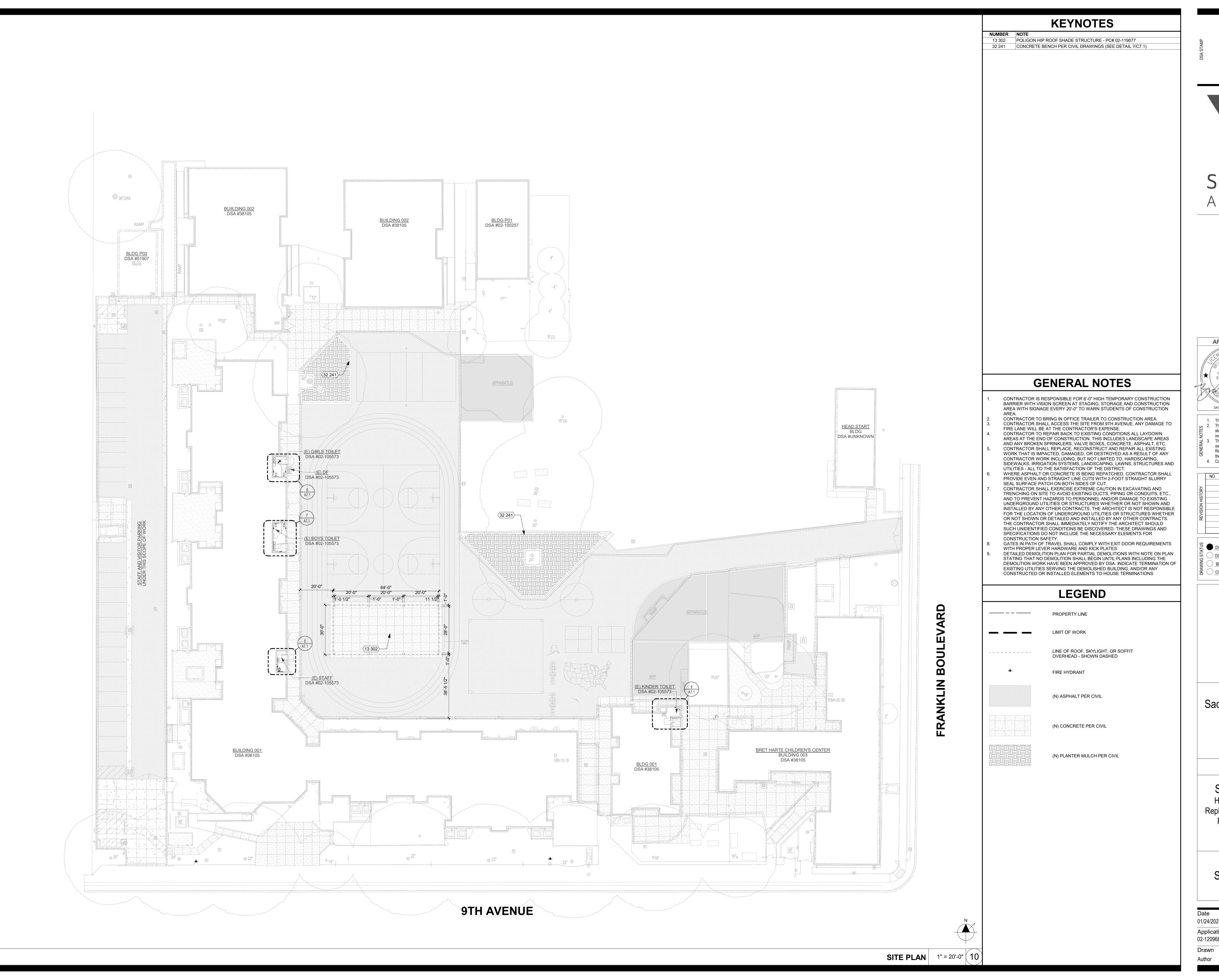
SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES
Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

PLAYGROUND ENLARGEMENTS

Date 02/6/2023		Project Number 22035
Application Number 02-120968		Drawing Number
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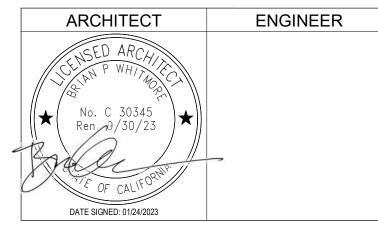
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KEY PLAN

Sacramento Unified School

District 425 1st AVENUE SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES

Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue
Sacramento, CA 95818

SITE PLAN OVERALL

Date
01/24/2023

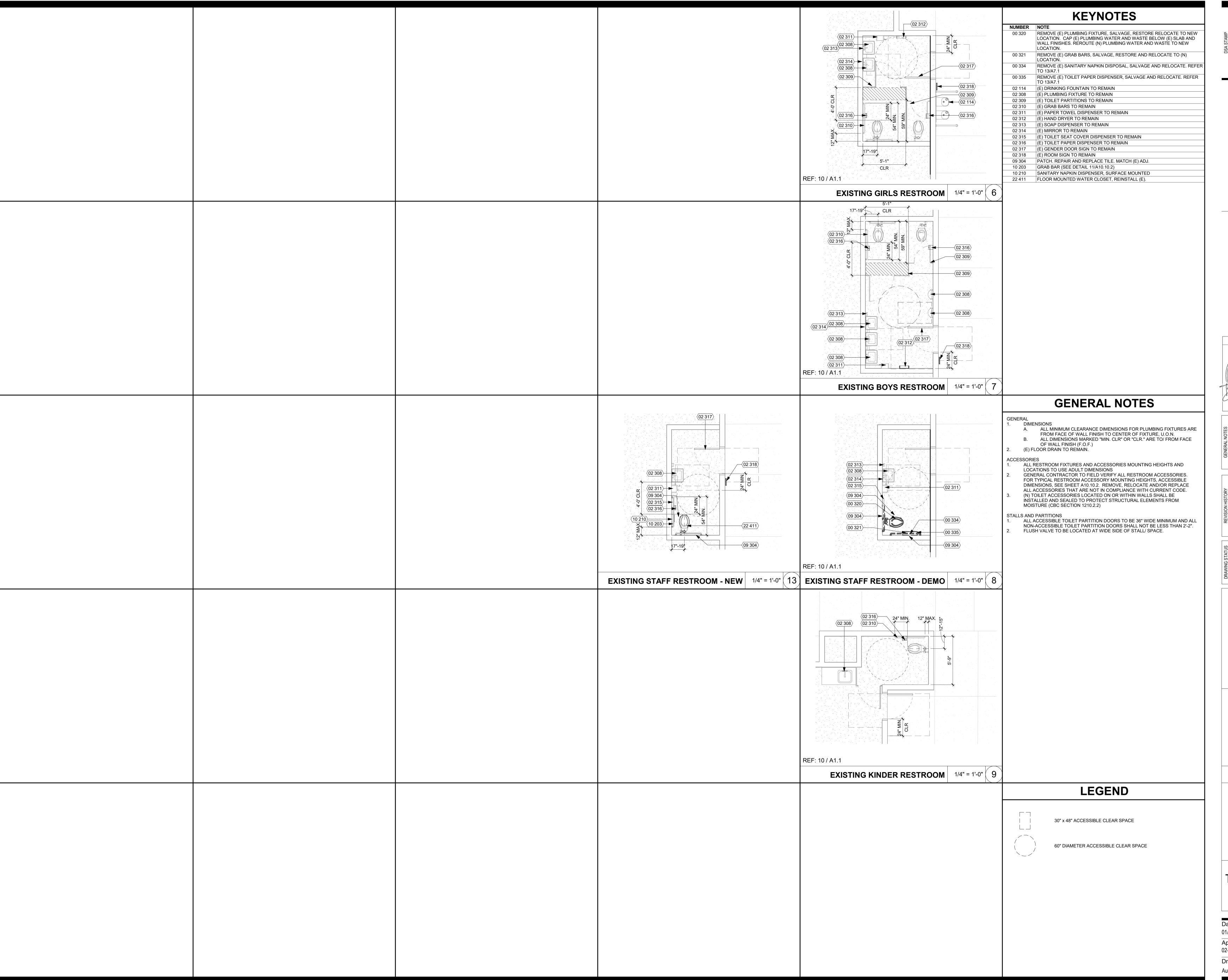
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Drawing Number



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ARCHITECT	ENGINEER
No. C 30345 Ren ∂/30/23 ★ DATE SIGNED: 01/24/2023	

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KEY PLAN

Sacramento Unified School **District** 425 1st AVENUE

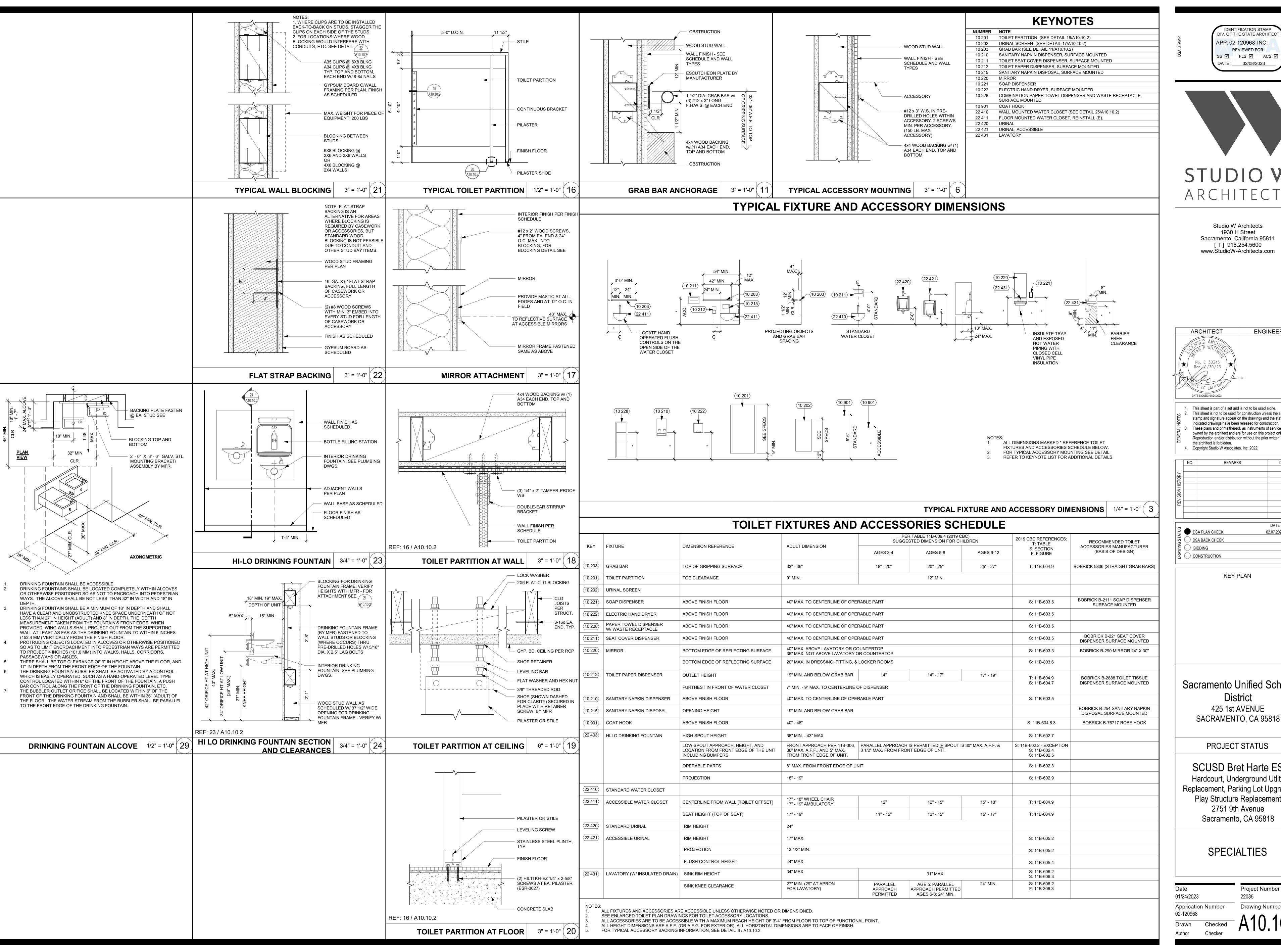
PROJECT STATUS

SACRAMENTO, CA 95818

SCUSD Bret Harte ES Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

TOILET ROOM PLANS AND **ELEVATIONS**

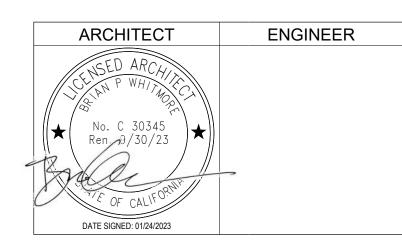
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KEY PLAN

Sacramento Unified School District 425 1st AVENUE

PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

SPECIALTIES

Project Number 01/24/2023 Application Number Drawing Number

	PLUMBING FIXTURE SCHEDULE					
MARK	FIXTURE	S or W	٧	CW	HW	DESCRIPTION
<u>WC-1</u>	Water Closet Ada	4"	2"	1-1/2"		KOHLER MODEL No. K-96057 WATER CLOSET, FLOOR MOUNTED, SIPHON JET ACTION, ELONGATED BOWL, WHITE VITREOUS CHINA COMPLETE W/ SLOAN MODEL No. 111-1.28 MANUAL FLUSHOMETER VALVE (1.28 GPF), BEMIS MODEL No. 1955-SSC WHITE ELONGATED OPEN FRONT SEAT LESS COVER W/ STAINLESS STEEL CHECK HINGE. INSTALL IN ACCORDANCE WITH CBC ACCESS REQUIREMENTS.

PLUMBING EQUIPMENT SCHEDULE						
MARK	FIXTURE	S or W	٧	CW	HW	DESCRIPTION
WHA 1	WATER HAMMER ARRESTOR			PER PDI		SIOUX CHIEF SERIES 650, TYPE 'L' COPPER TUBE PISTON TYPE WATER HAMMER ARRESTOR, SUITABLE FOR CONCEALED INSTALLATION, SIZE PER PDI REQUIREMENTS. ASSE 1010 LISTED. INSTALL PER MANUFACTURER RECOMMENDATIONS.

PLUMBING MATERIAL SCHEDULE						
LOCATION	MATERIAL		JOINING METHOD			
LOCATION	MATERIAL	TEST METHOD	MATERIAL	TEST METHOD		
ABOVE & BELOW SLAB	STANDARD WEIGHT COATED CAST IRON PIPE	CISPI 301, ASTM A888	PLAIN END NO-HUB WITH NEOPRENE GASKET & STAINLESS STEEL COUPLING	CISPI 301, ASTM A74		
ABOVE & BELOW SLAB	PVC-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D2661	SOLVENT WELD	ASTM D2661		
ABOVE SLAB	TYPE 'L' HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 95/5 TIN-SILVER SOLDERED JOINTS	ANSI B16.22		
ABOVE SLAB	SCHEDULE 40 BLACK STEEL PIPE	ASTM A53	150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS	ANSI B16.3, ANSI B16.8		
BELOW SLAB	MEDIUM DENSITY POLYETHYLENE PIPE	ASTM D2513	MEDIUM DENSITY POLYETHYLENE PIPE FITTINGS	ASTM D2513		
	ABOVE & BELOW SLAB ABOVE SLAB ABOVE SLAB	LOCATION ABOVE & STANDARD WEIGHT COATED CAST IRON PIPE ABOVE & PVC-DWV PIPE, SCHEDULE 40 THICKNESS ABOVE SLAB TYPE 'L' HARD TEMPER SEAMLESS COPPER ABOVE SLAB SCHEDULE 40 BLACK STEEL PIPE RELOW SLAB MEDIUM DENSITY	LOCATION MATERIAL TEST METHOD ABOVE & STANDARD WEIGHT COATED CAST IRON PIPE ASTM A888 ABOVE & PVC-DWV PIPE, SCHEDULE 40 THICKNESS ABOVE SLAB ABOVE SLAB ABOVE SLAB SCHEDULE 40 BLACK STEEL PIPE MEDIUM DENSITY ASTM D2513	LOCATION MATERIAL ABOVE & STANDARD WEIGHT CISPI 301, ASTM D2661 ABOVE & PVC-DWV PIPE, SCHEDULE 40 THICKNESS ABOVE SLAB AB		

- . PRIME AND PAINT ALL GAS PIPING. ALL CAST IRON PIPE SHALL BE AMERICAN MADE AND TESTED, NO IMPORTED PIPE IS ACCEPTABLE. TYLER PIPE, AB&I
- FOUNDRY OR CHARLOTTE PIPE. 3. UNDERGROUND CAST IRON PIPE SHALL HAVE HEAVY DUTY 4 BAND COUPLINGS, HUSKY 4000 OR EQUAL.
- 4. CONSULT CPVC MANUFACTURER FOR INSTALLATION REQUIREMENTS.
- MED GASSES AND VACUUM TO BE INSTALLED AND TESTED PER NFPA 99. 6. UNDERGROUND PVC-DWV TO BE INSTALLED PER ASTM D2321

PIPE HANGER SCHEDULE					
PER 2022 CPC TABLE 313.3					
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL		
CAST-IRON HUBLESS	CAST-IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT; NOTES 1,2,3,4	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET		
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET; NOTE 5		
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET; NOTE 7	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR; NOTE 7		
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET; NOTES 3,6	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET; NOTE 6		
NOTES:					

- SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18". BRACE NOT TO EXCEED 40 FOOT INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
- SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
- HANGERS SHALL NOT BE PLACED ON THE COUPLING. VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING
- SEE THE APPROPRIATE IAPMO INSTALLATION STANDARD FOR EXPANSION AND OTHER SPECIAL REQUIREMENTS. NATURAL GAS PIPING TO BE SUPPORTED PER 2022 CPC TABLE 1210.2.4.1.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- . TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF
- LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS. OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL. ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM **BRACING NOTES**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT ☐ ☐ ☐ SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL \square \square \square (OPM#) #0043-13.

SYMBOL ITEM S FIXTURE DESIGNATION -UNIT ABBREVIATION - NUMBER DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN -CW--- DOMESTIC COLD WATER CW -HW---- DOMESTIC HOT WATER HW ———— DOMESTIC HOT WATER SUPPLY - DOMESTIC HOT WATER RETURN HWR |---V---| VENT ├──MG──| MEDIUM PRESSURE GAS LPG — LPG— LIQUID PROPANE GAS — S — SEWER GREASE WASTE GW 0S —OS—OIL/SAND WASTE ACID WASTE AW SD— STORM DRAIN RD RD ROOF DRAIN OVERFLOW DRAIN OD — C — CONDENSATE DRAIN — SCD— SECONDARY DRAIN SCD —— D —— | DRAIN —T&P— TEMPERATURE & PRESSURE RELIEF T&P — FS — FIRE SPRINKLER FS PIPE CAP ── PIPE RISER/DROP ─────── SHUT-OFF VALVE IN BOX SOV CO **Ф**— FLOOR CLEANOUT TG**O** CLEANOUT TO GRADE **○──|| |** WALL CLEANOUT WCO → CLEANOUT **○**HOSE BIBB ○─▶ OVERFLOW DRAIN OUTLET BALL VALVE GATE VALVE CHECK VALVE CHK.V MIXING VALVE TMV 子 I SHUT-OFF COCK SOC CIRCULATION PUMP BALANCING VALVE BLV TRAP PRIMER TP TYPICAL VTR VENT THRU ROOF UNDERGROUND UG UNDER FLOOR ABOVE CEILING TA/TB TO ABOVE/BELOW FROM ABOVE/BELOW CONTINUATION NEW EXISTING

PLUMBING LEGEND

WHA SIZING			
FIXTURE TYPE	FIXTURE UNITS (PER FIXTURE)		
WATER CLOSET	8		
URINAL	4		
LAVATORY	2		
PDI SIZE	FIXTURE UNITS (PER ARRESTOR)		
Α	1-11		
В	12-32		
С	33-60		
D	61-113		
E	114-154		
F	155-330		

POINT OF DIS/CONNECTION

- . PROVIDE WATER HAMMER ARRESTORS AS REQUIRED IN SPECIFICATIONS. 2. WATER HAMMER ARRESTOR SIZING SHALL BE THE MORE STRINGENT OF THE TABLE ABOVE AND CURRENT PDI (PLUMBING & DRAINAGE INSTITUTE)
- REQUIREMENTS. 3. LOCATE WATER HAMMER ARRESTORS AS CLOSE TO BRANCH PIPING AS POSSIBLE.

HANGER ROD SIZING					
PER 2022 CPC TABLE	313.6				
PIPE AND TUBE	ROD SIZE				
SIZE (IN)	(IN)				
1/2 - 4	3/8				
1/2	3/0				
5 – 8	1/2				

5/8

10 -12

PLUMBING SPECIFICATIONS

- A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE,
- INCLUDING, BUT NOT LIMITED TO: A.1. 2022 CALIFORNIA BUILDING CODE
- A.2. 2022 CALIFORNIA MECHANICAL CODE
- A.3. 2022 CALIFORNIA PLUMBING CODE A.4. 2022 CALIFORNIA ELECTRICAL CODE
- A.5. 2022 CALIFORNIA GREEN BUILDING STANDARDS A.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS — TITLE 24
- A.7. NATIONAL FIRE PROTECTION ASSOCIATION
- A.8. CALIFORNIA STATE FIRE MARSHAL B. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED
- ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER. . THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.

D. CHECK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE

- LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER. E. THE LOCATIONS OF EQUIPMENT, PIPING, AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER. . SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL,
- CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE. 3. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE

SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED

- AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS PLUMBING COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR
- OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED. CHECK ALL SYSTEMS FOR LEAKS. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE
- SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY. . BEFORE COMMENCING WORK CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER
- TO AVOID FREEZING. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COSTS SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN. K. COORDINATE ALL NEW OR CHANGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ALL WORK PERFORMED NOT IN ACCORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS PRIOR TO
- COORDINATING WITH THE UTILITY COMPANY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. . INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. M. MAKE ALL CONNECTIONS TO EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AS FAR AS
- TRAPS, DRAINS, FLEXIBLE CONNECTIONS, ETC. AND AS REQUIRED BY THE EQUIPMENT AND LOCATION. N. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND ADA ACCESSIBILITY REQUIREMENTS. O. PIPING INSULATION (INTERIOR APPLICATIONS):
- O.1. GLASS FIBER INSULATION: ASTM C 547 AND ASTM C 795. 'K' ('KSI') VALUE: 0.24 AT 75 DEGREES F, WHEN TESTED IN ACCORDANCE WITH ASTM C 177. MAXIMUM SERVICE TEMPERATURE: 850 DEGREES F.
- MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. 0.2. VAPOR BARRIER JACKET: WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM; MOISTURE VAPOR TRANSMISSION WHEN TESTED IN ACCORDANCE WITH ASTM E 96/E 96M OF 0.02.
- 0.3. INSULATION THICKNESS SCHEDULES:
- 0.3.1. DOMESTIC HOT AND TEMPERED WATER SUPPLY: 0.3.1.1. 2 INCH THICKNESS FOR PIPING 2 INCH AND LARGER.
- 0.3.1.2. 1-1/2 INCH THICKNESS FOR PIPING 1 INCH TO 1-1/2 INCH.
- 0.3.1.3. 1 INCH THICKNESS FOR PIPING LESS THAN 1 INCH.
- 0.3.2. DOMESTIC COLD WATER LOCATED IN UNHEATED AREAS: 0.3.2.1. 1 INCH THICKNESS FOR PIPING 1-1/2 INCHES AND LARGER.
- 0.3.2.2. 3/4 INCH THICKNESS FOR PIPING 1 INCHES AND SMALLER. INSULATE DOMESTIC HOT WATER, TEMPERED WATER AND WASTE PIPING BELOW HANDICAPPED PLUMBING FIXTURES WITH MOLDED SINGLE PIECE REMOVABLE INSULATION COVERS, FOAM, FIRE RESISTANT, TRUEBRO,
- OR EQUAL. INSTALL INSULATION COVERS IN ACCORDANCE WITH CBC ACCESS REQUIREMENTS. Q. FIXTURES, DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE
- WITH CALIFORNIA AB 1953 LEGISLATION WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.
- R. PROVIDE COMPRESSION SHUTOFF CONTROL STOP VALVES WITH IPS INLETS AND THREADED BRASS NIPPLES
- AT PIPE CONNECTION ON WATER SUPPLIES TO EACH FIXTURE. S. PROVIDE CHROMIUM—PLATED FINISH ON FITTINGS AND ACCESSORIES EXPOSED TO VIEW.
- T. FIXTURE FITTINGS AND TRIM: CONFORM TO ASME A112.18.1M AND ASME A112.19.5, AS APPLICABLE. U. PROVIDE WATER HAMMER ARRESTORS AT END OF PIPE RUNS TO TWO OR MORE FIXTURES, PROPERLY SIZED WITH SUFFICIENT DISPLACEMENT VOLUME TO DISSIPATE CALCULATED ENERGY IN THE PIPING SYSTEMS.
- WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL SHELL WITH STAINLESS STEEL BELLOWS CONTAINED WITHIN THE CASING. /. PROVIDE PIPE SLEEVES WHERE PIPES AND TUBING PASS THROUGH WALLS, FLOORS, ROOFS, AND
- PARTITIONS. FINISH FLUSH AT BOTH ENDS. EXTEND 2 INCHES (50 MM) ABOVE FINISHED FLOORS. PACK SPACE BETWEEN PIPE OR TUBING AND SLEEVE, AND CALK.
- W. IDENTIFY PIPING WITH TAPE AND DECALS. INSTALL LABELING ON PIPE AT INTERVALS OF NOT MORE THAN 20 FEET (6 METERS) AND AT LEAST ONCE IN EACH ROOM AND EACH STORY TRAVERSED BY PIPELINE. X. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
- Y. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 10' FROM ANY OUTSIDE AIR INTAKE OR OPENING TO THE BUILDING. Z. ALL EXPOSED MATERIAL SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED.

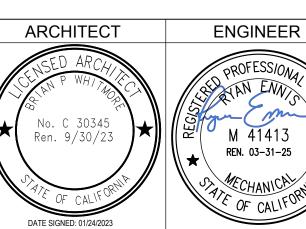
PLUMBING SHEET INDEX SHEET NUMBER | SHEET NAME P0.1 PLUMBING SCHEDULES, LEGEND & NOTES P1.1 PLUMBING OVERALL SITE PLAN

PLUMBING FLOOR PLANS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-120968 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 02/08/2023



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KEY PLAN

Sacramento Unified School

District 425 1st AVENUE SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity Replacement, Parking Lot Upgrade, Play Structure Replacement 2751 9th Avenue Sacramento, CA 95818

PLUMBING SCHEDULES, LEGEND, AND NOTES

Application Number 02-120968 Drawn Checked

Checker

Project Number

Drawing Number

1) REMOVE AND REPLACE (E) GAS PIPING SHOWN HATCHED UP TO POD.

GENERAL NOTES

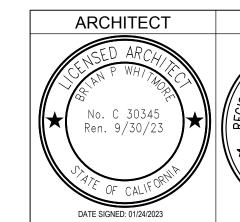
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING

WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

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KEY PLAN

Sacramento Unified School **District** 425 1st AVENUE

PROJECT STATUS

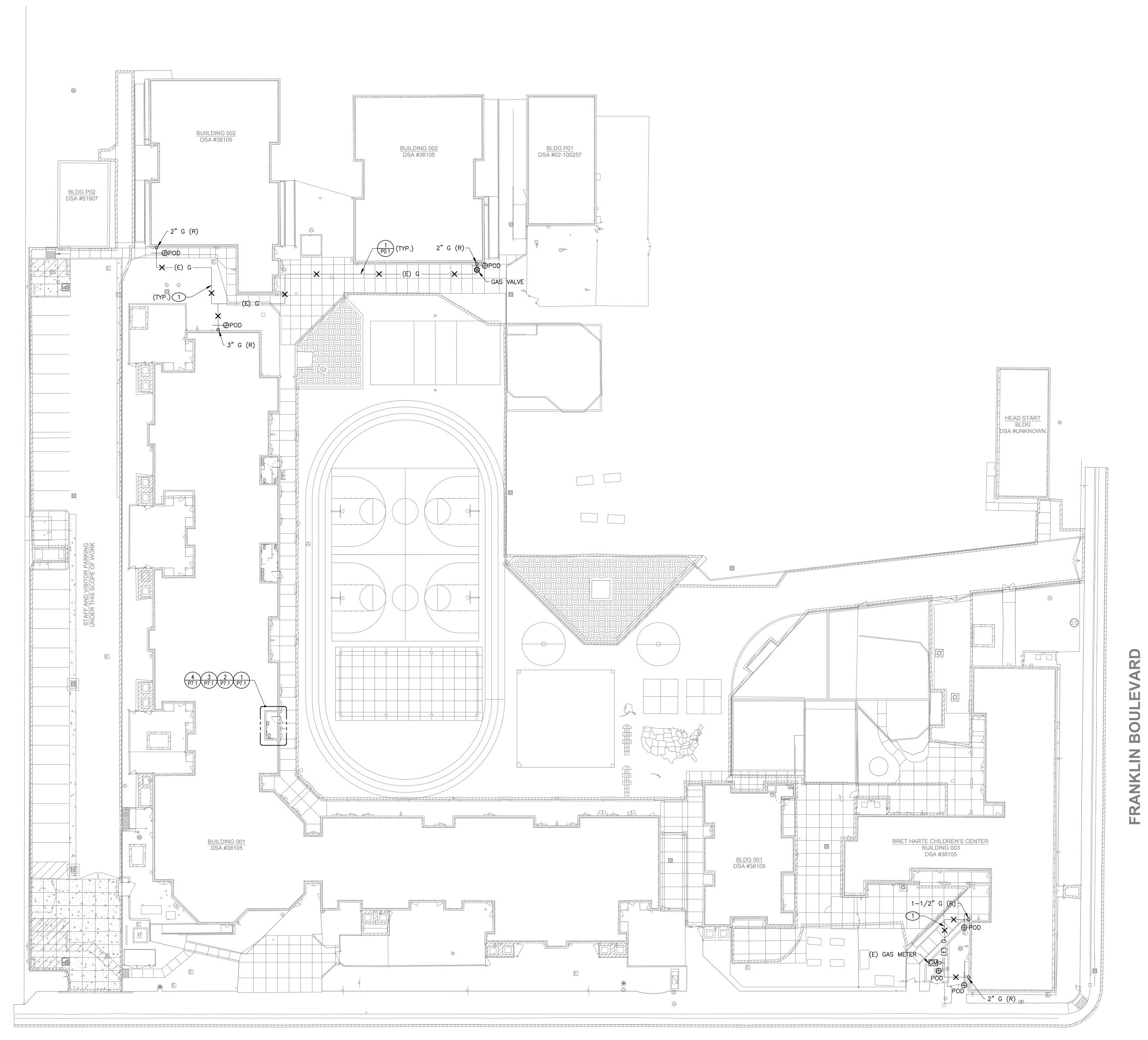
SACRAMENTO, CA 95818

SCUSD Bret Harte ES Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue Sacramento, CA 95818

PLUMBING OVERALL SITE PLAN

Project Number 22035 Application Number 02-120968 Drawing Number Drawn Checked

Checker



9TH AVENUE

PLUMBING OVERALL SITE PLAN | 1" = 20'-0" (1)

1) REMOVE (E) PLUMBING FIXTURE SHOWN HATCHED. PIPING TO BE MODIFIED FOR (N) FIXTURE.

KEY NOTES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-120968 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 02/08/2023



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GENERAL NOTES

FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

(E) LAV TO REMAIN

EXISTING STAFF RESTROOM - WASTE & VENT DEMO 1/4" = 1'-0" 1

EXISTING STAFF RESTROOM - CW & HW DEMO 1/4" = 1'-0" 3

— (E) HOSE BIBB

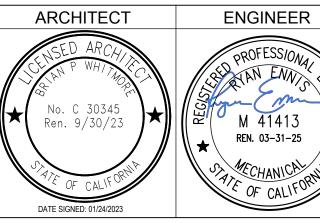
(E) LAV TO REMAIN

1-1/2" (D)-TO HEADER

(E) LAV TO REMAIN

EXISTING STAFF RESTROOM - WASTE & VENT NEW 1/4" = 1'-0" 2

EXISTING STAFF RESTROOM - CW & HW NEW 1/4" = 1'-0" 4



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KEY PLAN

Sacramento Unified School **District**

425 1st AVENUE SACRAMENTO, CA 95818

PROJECT STATUS

SCUSD Bret Harte ES Hardcourt, Underground Utlity
Replacement, Parking Lot Upgrade,
Play Structure Replacement
2751 9th Avenue Sacramento, CA 95818

PLUMBING FLOOR PLAN

Project Number Application Number 02-120968 Drawing Number

Drawn Checked

Author Checker



1. IF SITE-SPECIFICDESIGN CRITERIA ARE OUTSIDE THE LIMITS OF THESE PC DRAWINGS, CONTACT POLIGON ENGINEERING TO SEE IF AN ENGINEERING LETTER, SUPPLEMENTAL DRAWINGS, AND/OR CALCULATIONS COULD BE SUBMITTED FOR A SITE-SPECIFIC SOLUTION. ANY SITE- SPECIFIC DEVIATION FROM THIS PC MAY NOT BE SUBMITTING TO DSA AS AN

2. STRUCTURE IS NOT DESIGNED TO SUPPORT SOLAR PANELS. STRUCTURE IS NOT DESIGNED TO SUPPORT SPRINKLER SYSTEMS IN LOAD SCENARIO 2 REGIONS.

3. GEOHAZARD REPORTS ARE REQUIRED IF THE AREA COVERED UNDER THE ROOF EXCEEDS 4000 SQ FT.

4. STRUCTURAL SEPARATION BETWEEN ADJACENT STRUCTURES: RAM 20= 5.0", RAM 30= 3.0" STRUCTURAL SEPARATION BETWEEN EXISTING STRUCTURES: RAM 20= 5.5", RAM 30= 4.0"

5. When placing multiple canopies with Pier footings adjacent to one another, the design may require an ANALYSIS OF GROUP EFFECTS ON THE FOUNDATIONS. THE MINIMUM CLEARANCE BETWEEN CENTER OF PIERS IS EIGHT TIMES PIER DIAMETER WITHOUT AN ACCOMPANYING ENGINEERING LETTER

6. SITE APPLICATION DSA REVIEWER SHALL VERIFY THE STRUCTURE TO BE LOCATED AT LEAST 20 FEET FROM ANY ADJACENT STRUCTURE IF GROUND SNOW IS GREATER THAN ZERO.

ARCHITECTURAL REQUIREMENTS:

HORIZONTAL OR VERTICAL IRREGULARITIES TYPE(S)

DESCRIPTION	DESIGN VALUES
TYPE OF CONSTRUCTION	II B
number of stories	1
FIRE SPRINKLER SYSTEM	NOT BY POLIGON

RELATED BUILDING CODES AND STANDARDS:

TITLE 24 CODES:

2019 California Administrative Code (CAC)..... 2019 California Building Code (CBC), Volumes 1 and 2 (Part 2, Title 24, CCR) (2018 International Building Code with 2019 California amendments) 2019 California Electrical Code.(Part 3, Title 24, CCR) 17 National Electrical Code with 2019 California amendments) 2019 California Mechanical Code (CMC)(Part 4, Title 24, CCR) (2018 Uniform Mechanical Code with 2019 California amendments) 2019 California Plumbing Code (CPC)(Part 5, Title 24, CCR) 2018 Uniform Plumbing Code with 2019 California amendments)

2019 California Energy Code(Part 6, Title 24, CCR) 2019 California Fire Code (CFC) ..(Part 9, Title 24, CCR) 2018 International Fire Code with 2019 California Amendments) 2019 California Green Building Standards Code... ...(Part 11, Title 24, CCR)

2019 California Referenced Standards Code ... (Part 12, Title 24, CCR)

NFPA 72 - 2016

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2019 CBC, CHAPTER 35 2019 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE:

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATEI STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF TUBULAR STEEL MEMBERS SUPPORTED ON CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THIS STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

INSTRUCTIONS FOR ARCHITECTS PLANNING TO SUBMIT THESE PRE-CHECKED DRAWINGS TO DSA:

	STEP 1 PROJECT INFORMATION					
PROJECT NAME	BRET HARTE ELEMENTARY SCHOOL					
SCHOOL DISTRICT	SACRAMENTO CITY UNIFIED SCHOOL	_ DISTRICT				
USE AND OCCUPANCY CLASSIFICATION	A3	(PROPOSED OCCUPANCY: A3				
OCCUPANT LOAD FACTOR	1,920 SF \$C	Q. FT / PERSON (15FT SQ.FT. PER PERSON MAX;5 SQ.FT PER PERSON MIN				
TOTAL ROOF AREA	1,920 SF	(MAX ALLOWABLE AREA: 9500 SQ FT				
NUMBER OF OCCUPANTS	128					

STEP 2 DESIGN OPTIONS			
ROOF DECK	[X] MULTI-RIB (MR)	DEFAULT , WEIGHT 1.2 PSF	
ROOF DECK	[] STANDING SEAM (SS)	WEIGHT 1.8 PSF	
GUTTERS	[] NO	DEFAULT	
GUITERS	[X] YES	SEE RAM-7.0 FOR DETAILS	
ELECTRICAL ACCESS	[X] NO	DEFAULT	
ELECTRICAL ACCESS	[] YES	SEE RAM-7.1 FOR DETAILS	
CLEAR HEIGHT	[] 8'	DEFAULT	
CLEAK HEIGHI	[X] <u>10'-0"</u> OTHER	10' MAX	

		<u>STEP</u>	3 SEISMIC	CACCELERATI	<u>ION</u>	
	S s	0	6	5	(g)	
	\$ 1	0	2	4	(g)	
		<u>S</u>	TEP 4 SEIS	MIC REGIONS	<u> </u>	
S1 <= 0.844		•	[X] WHITE			3.5 PSF MAX DEA LOAD
S1 <= 1.070			[] GREEI	٧		2.0 PSF MAX DEAD LOAD
		\$1 \$1 \$1 <= 0.844	\$s0 \$10 \$S1 <= 0.844	\$s0 . 6 \$10 . 2 \$TEP 4 SEIS \$S1 <= 0.844 [X] WHITE	\$\$ 0 . 6 5 \$1 0 . 2 4 STEP 4 SEISMIC REGIONS \$1 <= 0.844 [X] WHITE	\$1024

STEP 5 TOTAL ROOF DEAD LOAD				
ROOF DECK	1 2 PSF	SEE STEP 2' 'ROOF DECK FOR WEIGHTS		
COLLATERAL	2 PSF	LIGHTING , FIRE SUPPRESSION, ETC.		
TOTAL	32PSF	ADD 'ROOF DECK' AND 'COLLATERAL'		

STEP 6 LOAD SCENARIO				
WHITE	TOTAL ROOF DEAD LAOD <= 3.5 PSF	[X] LOAD SCENARIO 1		
GREEN	TOTAL ROOF DEAD LOAD < 2.0 PSF	[] LOAD SCENARIO 2		

STEP 7 PC STRUCTU	<u>RE</u>
ROOF WIDTH <= 20	[] RAM 20
20 < ROOF WIDTH <= 30	[X] RAM 30

STEP 8 STRUCTURE SIZE							
RAM 20 RAM 30							
POOE WIDTH	[] 20'	DEFAULT	[X] 30'		DEFAULT		
ROOF WIDTH	[]	OTHER 9' MIN; 20' MAX	[]	OTHER	20'-6" MIN; 30' MAX		
	[] 44'	2 BAYS	[] 44'		2 BAYS		
ROOF LENGTH	[] 64'	3 BAYS	[X]64'		3 BAYS		
ROOF LENGTH	[] 84'	4 BAYS	[] 84'		4 BAYS		
	[]	OTHER	[]	OTHER			

STEP 9 FOUNDATION TYPE						
FOUNATION TYPE	RAA	۸ 20	RAM 30			
	[] SPREAD PAD	[] DRILLED PIER	[] SPREAD PAD	[X] DRILLED PIER		

STEP 10 FOUNDATION SUMMARY						
RAM	RAM 30					
[] LOAD SCENARIO 1	[] LOAD SCENARIO 1	[] LOAD SCENARIO 1	[X]LOAD SCENARIO 1			
SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER			
[] LOAD SCENARIO 2	[] LOAD SCENARIO 2	[] LOAD SCENARIO 2	[] LOAD SCENARIO 2			
SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER			

	STEP 11 SHEET INDEX								
BASE FRAME		RAM 20 SH	IEET INDEX		ram 30 sheet index				
ROOF DECK	N	IR	S	SS		MR		SS	
FOUNDATION TYPE	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	SPREAD PAD	DRILLED PIER	
SELECT ONE	[]	[]	[]	[]	[]	[X]	[]	[]	
ORDER FORM	RAM 1.0	RAM 1.0	RAM 1.0	RAM 1.0	RAM 1.0	RAM 1.0	RAM 1.0	RAM 1.0	
NOTES AND SPECIAL INSPECTIONS	RAM 1.1	RAM 1.1	RAM 1.1	RAM 1.1	RAM 1.1	RAM 1.1	RAM 1.1	RAM 1.1	
FOUNDATION PLAN	RAM 2.0	RAM 2.1	RAM 2.0	RAM 2.1	RAM 2.2	RAM 2.3	RAM 2.2	RAM 2.3	
FRAMING PLAN	RAM 3.0	RAM 3.0	RAM 3.0	RAM 3.0	RAM 3.1	RAM 3.1	RAM 3.1	RAM 3.1	
FRAME CONNECTION DETAILS	RAM 4.0	RAM 4.0	RAM 4.0	RAM 4.0	RAM 4.2	RAM 4.2	RAM 4.2	RAM 4.2	
SECTION DETAILS	RAM 4.1	RAM 4.1	RAM 4.1	RAM 4.1	RAM 4.3	RAM 4.3	RAM 4.3	RAM 4.3	
ARCHITECTURAL VIEWS	RAM 5.0	RAM 5.0	RAM 5.0	RAM 5.0	RAM 5.1	RAM 5.1	RAM 5.1	RAM 5.1	
ROOF CONNECTION DETAILS	RAM 6.0	RAM 6.0	RAM 6.1	RAM 6.1	RAM 6.0	RAM 6.0	RAM 6.1	RAM 6.1	
MISC DESIGN OPTIONS	RAM 7.0	RAM 7.0	RAM 7.0	RAM 7.0	RAM 7.0	RAM 7.0	RAM 7.0	RAM 7.0	
ELETRICAL CUTOUTS	RAM 7.1	RAM 7.1	RAM 7.1	RAM 7.1	RAM 7.1	RAM 7.1	RAM 7.1	RAM 7.1	

	STEP 12 MULTIPLE STRUCTURES	
	ROOF WIDTH X LENGTH	QTY
	35'-0" X 44'-0"	1
MULTIPLE STRUCTURES		

STEP 1: GENERAL PROJECT INFORMATION

IDENTIFY PROJECT NAME AND SCHOOL DISTRIC

- IDENTIFY USE AND OCCUPANCY CLASSIFICATION THE USE AND OCCUPANCY DETERMINE THE MAXIMUM SQUARE FOOTAGE OF THE STRUCTURE THE MAXIMUM SQUARE FOOTAGE IS ALSO LIMITED BY THE NUMBER OF OCCUPANTS IDENTIFY THE OCCUPANT LOAD PER TABLE 1004.5 IN THE CBC

- IDENTIFY EXPECTED NUMBER OF OCCUPANTS BASED ON THE ESTIMATED OCCUPANT LOAD
- THE MAXIMUM NUMBER OF OCCUPANTS FOR THIS STRUCTURE IS 250 - TOTAL ROOF AREA DIVIDED BY OCCUPANT LOAD CAN DETERMINE NUMBER OF OCCUPANTS

STEP 2: DESIGN OPTIONS

- SELECT ROOF DECK FOR YOUR PROJECT "MR" REPRESENTS MCELROY METAL "MULTI-RIB" ROOF DECK "SS" REPRESENTS MCELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF DECK

- SELECT WHETHER GUTTERS AND DOWNSPOUTS FROM POLIGON IS NEEDED FOR YOUR PROJECT - IF "YES", THEN INCLUDE SHEET RAM-7.0 IN THE DRAWING SET -SELECT WHETHER ELECTRICAL CUTOUTS ARE NEEDED FOR YOUR PROJEC SHEET RAM-7.0 SHOWS ELECTRICAL CUTOUT SIZE AND LOCATION CUTOUTS IN COLUMNS

SHEET RAM-7.1 HAS INSTRUCTIONS AND SHEET TO IDENTIFY WHICH COLUMNS SHEET RAM-7.1 MUST BE FILLED OUT IN THE SUBMITTAL SET APPROVED BY DSA IF NOTHING IS FILLED IN ON RAM-7.1, POLIGON WILL ASSUME CUTOTUS ARE ONLY IN COLUMN A1 (SEE 'FRAMING PLAN' FOR REFERENCE)

SELECT CLEAR HEIGHT (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE) MIN 6'-8"; MAX 10'-0" IF NOTHING IS SELECTED, POLIGON WILL ASSUME THE DEFAULT FOR EACH DESIGN OPTION

STEP 3: IDENTIFY THE Ss & S1 ACCELERATION (g) FOR YOUR PROJECT AND GEOTECHNICAL INFORMATION

- Ss & S1 VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES - Ss & S1 VALUE DEPENDS ON PROJECT'S GEOGRAPHICAL LOCATION FIND SS & S1 VALUES FOR YOUR PROJECT IN THE SITE SPECIFIC GEOTECHNICAL REPORT - FIND Ss & S1 VALUES FOR YOUR PROJECT USING (https://asce7hazardtool.online/)
- THIS PC IS NOT APPROVED FOR Ss VALUES GREATER THAN 2.063 (CONTACT POLIGON FOR

ADDITIONAL OPTIONS) **STEP 4**: IDENTIFY THE SEISMIC REGION FOR YOUR PROJECT

- THE REGIONS ARE DEPENDANT ON THE Ss & S1 VALUE DETERMINED IN STEP 3 - THE SEISMIC REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED (SEE TABLE TO THE LEFT)

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT

- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- TOTAL ROOF DEAD LOAD MUST BE LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 - CUT SHEETS OF ANY BOARDS, BOXES AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE, INCLUDING

STEP 6: IDENTIFY THE LOAD SCENARIO

WEIGHTS AND DIMENSIONS ARE REQUIRED

- REFERENCE THE STEP 4 COLOR AND SELECT THE APPLICABLE LOAD SCENARIO - LOAD SCENARIOS HAVE NO IMPACT ON FRAME DESIGN OR COST, BUT DO AFFECT FOUNDATION SIZE

STEP 7: IDENTIFY PC STRUCTURE

- ROOF WIDTHS UP TO 20' WIDE USE THE "RAM 20"

- ROOF WIDTHS UP TO 30' WIDE USE THE "RAM 30" - THE 20' AND 30' WIDTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST ECONOMICAL - MAXIMUM WIDTH IS 30'; (SEE 'ARCHITECTURAL VIEWS' SHEET FOR REFERENCE)

STEP 8: IDENTIFY SITE SPECIFIC ROOF WIDTH AND LENGTH

- DO NOT EXCEED THE TOTAL ROOF AREA FROM STEP 1 (ROOF WIDTH MULTIPLIED BY ROOF LENGTH) **STEP 9**: FOUNDATION TYPE

SELECT A FOUNDATION BASED THE DESIRED FOUNDATION TYPE SELECT EITHER SPREAD PAD OR DRILLED PIER FOUNDATION PRIOR TO APPROVAL - FOUNDATION TYPE IMPACTS CONSTRUCTION (TIMING, SEQUENCE, COST, ETC.)

FOUNDATION TYPE IMPACTS ANCHOR BOLT LENGTH (NOT PROVIDED BY POLIGON) - REVIEW OF SITE-SPECIFIC SOILS REPORT TO EVALUATE APPLICABILITY OF FOUNDATION OPTIONS AVAILABLE

STEP 10: FOUNDATION SUMMARY - USE THE SELECTIONS FROM STEP 6 AND STEP 9 TO SELECT THE APPROPRIATE FOUNDATION

STEP 11: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT

- IDENTIFY THE APPLICABLE SHEET INDEX

INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL - EXCLUDE 'MISC DESIGN OPTIONS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS - EXCLUDE 'ELECTRICAL CUTOUTS' SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS

STEP 12: MULTIPLE STRUCTURES WITH THE SAME PC#

- CONTACT POLIGON FOR FURTHER INFORMATION

- FILL IN ROOF LENGTH AND WIDTH OF STRUCTURES AS WELL AS QUANTITY - UNO ON THE POLIGON DRAWINGS, POLIGON WILL ASSUME ALL DESIGN CRITERIA FOR EACH STRUCTURE IS THE SAME

	SHEET INDEX								
1	RAM1.0	ORDER FORM	11	RAM4.2	FRAME CONNECTION DETAILS - RAM 30				
2	RAM1.1	NOTES AND SPECIAL INSPECTIONS	12	RAM4.3	SECTION DETAILS - RAM 30				
3	RAM2.0	FOUNDATION PLAN SPREAD PAD - RAM 20	1 3	RAM5.0	ARCHITECTURAL VIEWS - RAM 20				
-4	RAM2.1	FOUNDATION PLAN DRILLED PIER - RAM 20	14	RAM5.1	ARCHITECTURAL VIEWS - RAM 30				
5	RAM2.2	FOUNDATION PLAN SPREAD PAD - RAM 30	15	RAM6.0	ROOF CONNECTION DETAILS				
6	RAM2.3	FOUNDATION PLAN DRILLED PIER - RAM 30	16	RAM6.1	ROOF CONNECTION DETAILS				
7	RAM3.0	FRAMING PLAN - RAM 20	17	RAM7.0	MISC DESIGN OPTIONS				
8	RAM3.1	FRAMING PLAN - RAM 30	18	RAM7.1	ELECTRICAL CUTOUTS				
9	RAM4.0	FRAME CONNECTION DETAILS - RAM 20							
10	RAM4.1	SECTION DETAILS - RAM 20							

<u>ABBREVIATIONS:</u>

TOTAL SHEETS = 10

	100	NEV II VII O I VOI		
	ACI	AMERICAN CONCRETE INSTITUTE	MR	MULTI-RIB ROOF PANEL (MCELROY)
	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	NTS	NOT TO SCALE
	ASM	ASSEMBLY (INTERNAL REFERENCE)	NO	NUMBER
Ĺ	ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'LS	OC	ON CENTER
	AWS	AMERICAN WELDING SOCIETY	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADM.
	CBC	CALIFORNIA BUILDING CODE	PCF	POUNDS PER CUBIC FOOT
	CJP	COMPLETE JOINT PENETRATION	PD	POLIGON DRAWING
	CLR	CLEAR	PJ	PRETENSIONED JOINT
	DEG	DEGREE	PLCS	PLACES
	DIA	DIAMETER	PLT	PLATE
	DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
	DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
	EQ	EQUAL	QTY	QUANTITY
	FT	FEET	REF	REFERENCE
	GA	GAGE	SQ	SQUARE
	IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
	KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
	MAX	MAXIMUM	UNO	unless noted otherwise
	MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
	MISC	MISCELLANEOUS	W/	WITH
	MPH	MILES PER HOUR		

SPECIFICATIONS

PART 1 - GENERAL

I.1 STRUCTURE DESCRIPTION A. STRUCTURE(S) BASED ON THE FOLLOWING PC DESIGN(S):

1.2 DESIGN REQUIREMENTS

1. HIP ROOF (RAM)

A. MEET THE DESIGN INTENT SHOWN ON THE PC DRAWINGS APPROVED FOR THIS PROJECT. . DESIGN CRITERIA

MEMBERS SIZES . HIDDEN BOLTED CONNECTIONS BETWEEN STRUCTURAL MEMBERS

4. COLUMN ANCHORAGE SHALL INCLUDE FOUR (4) BOLTS IN COMPLIANCE WITH OSHA $19\overline{26.755}$ (A)(T). 5. NO FIELD WELDING PERMITTED 6. NO FIELD PAINTING PERMITTED 7. ROOF DIMENSIONS AND SLOPES

8. EXPOSED STEEL ROOF FASTENERS (IF APPLICABLE) POWDER COATED BY MANUFACTURER 9. ROOF DECK SPANS FROM PEAK TO EAVE AND PÉRMITS PROPER DRAINAGE WITHOUT DEBRIS BUILD-

A. DRAWINGS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE B. ONLY MANUFACTURERS THAT SUBMIT DRAWINGS AND CALCULATIONS PRIOR TO BID SHALL BE

CONSIDERED. C. MANUFACTURER MUST BE ABLE TO SUBMIT APPROPRIATE LABORATORY TESTS FOR THE FOLLOWING:

1. FRAME FINISH REQUIREMENTS LISTED IN PART 2 OF THIS SPECIFICATION.

2. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL (DESCRIBING THE CHEMICAL AND PHYSICAL 3. CERTIFIED MILL TEST REPORTS FOR STRUCTURAL BOLTS.

A. MANUFACTURER MUST HAVE IN-HOUSE ENGINEERING DEPARTMENT AND A PROFESSIONAL ENGINEER LICENSED IN THE APPROPRIATE STATE TO ANSWER TECHNICAL QUESTIONS.

1.5 QUALITY ASSURANCE

1. FABRICATION PROCEDURES SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REGULATIONS. 2. REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS INCLUDED ON THE PROJECT DSA-103 FORM

B. MANUFACTURER QUALIFICATIONS 1. MINIMUM (10) YEARS ENGINEERING AND FABRICATING PRE-ENGINEERED STRUCTURES

2. MANUFACTURER OWNED AND OPERATED POWDER COAT PAINT FINISH SYSTEM 3. ALL AWS CERTIFIED WELDERS 4. FULL-TIME PROFESSIONAL ENGINEER ON STAFF LICENSED IN THE APPROPRIATE STATE 5. FULL-TIME AWS CERTIFIED ASSOCIATE WELDING INSPECTOR ON STAFF

6. FULL-TIME QUALITY ASSURANCE MANAGER ON STAFF 7. FULL-TIME LEED AP ON STAFF C. MANUFACTURER CERTIFICATIONS

1. PCI 4000 CERTIFICATION THROUGH POWDER COATING INSTITUTE (PCI) S MANUFACTURER WARRANTY

A. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON STEEL FRAME MEMBERS. B. STRUCTURE MUST HAVE (10) YEAR LIMITED WARRANTY ON PAINT SYSTEM. C. PASS THROUGH WARRANTY OF ROOFING MANUFACTURER SHALL BE PROVIDED UPON REQUEST.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. ACCEPTABLE MANUFACTURERS 1. POLIGON, A DIVISION OF PORTERCORP. A. 4240 N 136TH AVE., HOLLAND, MI 49424; (616) 399-1963; WWW.POLIGON.COM.

I. FOR POLIGON STRUCTURES IN NORTHERN CALIFORNIA, THE LOCAL REPRESENTATIVE IS ALL ABOUT PLAY (WWW.PLAYGROUNDPROS.COM). EMAIL AAP@PLAYGROUNDPROS.COM OR CALL (916) 923-2180 II. FOR POLIGON STRUCTURES IN SOUTHERN CALIFORNIA, THE LOCAL REPRESENTATIVE IS

MIRACLE PLAYGROUND SALES (MIRACLEPLAYGROUNDSALES.COM EMAIL SALES@MIRACLEPLAYGROUND.COM OR CALL (951) 695-4515 . THE ENGINEERING FOR THIS STRUCTURE IS ONLY APPLICABLE IF POLIGON SUPPLIES THE MATERIAL.

2. IF THE CONTRACTOR ELECTS TO SUBSTITUTE A DIFFERENT STRUCTURE, THEY ARE RESPONSIBLE TO OBTAIN THE NECESSARY DSA APPROVAL WITH: A. NO COST TO THE DISTRICT OR ARCHITECT

B. NO CHANGE TO THE CONSTRUCTION SCHEDULE 3. Substitutions must be approved a minimum of (10) days before bid.

4. ALL APPROVED MANUFACTURERS SHALL BE NOTIFIED IN WRITING BEFORE THE BID DATE. 5. SUBSTITUTE MANUFACTURERS SHALL NOT BE ALLOWED TO BID WITHOUT WRITTEN

NOTIFICATION. 6. SUBSTITUTE MANUFACTURERS MUST MEET "MANUFACTURER QUALIFICATIONS" LISTED IN PART 1 OF THIS SPECIFICATION.

7. SUBSTITUTE MANUFACTURERS MUST PROVIDE PROOF OF "MANUFACTURER CERTIFICATIONS" ABOVE 8. SUBSTITUTE MANUFACTURERS MUST PROVIDE PAINT FINISH DESCRIBED IN "FRAME FINISH"

A. MATERIAL

 ANCHOR BOLTS: SEE DRAWINGS FOR REQUIREMENTS. ANCHOR BOLTS NOT PROVIDED BY MANUFACTURER

2. STRUCTURAL STEEL: SEE DRAWINGS FOR REQUIREMENTS. STRUCTURAL BOLTS: SEE DRAWINGS FOR REQUIREMENTS.

1. FRAME FINISH: POLI-5000 POWDER COAT. NO FIELD PAINTING PERMITTED. A. COMPONENTS SHALL BE CLEANED, PRE-TREATED, AND FINISHED AT A FACILITY OWNED AND DIRECTLY SUPERVISED BY THE MANUFACTURER. B. COMPONENTS SHALL BE SHOT BLASTED TO SSPC-SP10 NEAR-WHITE BLAST CLEANING. SSPC-SP2 HAND TOOL CLEANING WILL NOT BE AN ACCEPTABLE ALTERNATIVE.

C. COMPONENTS SHALL BE PRETREATED IN A (3) STAGE IRON PHOSPHATE OR EQUAL WASHER. D. COMPONENTS SHALL RECEIVE EPOXY PRIMÈR COAT FOR SUPERIOR CORROSION PROTECTION. COMPONENTS SHALL RECEIVE TOP COAT OF SUPER DURABLE TGIC POWDER COAT. . FINISH SHALL NOT HAVE ANY VOC EMISSIONS. G. MANUFACTURER SHALL BE ABLE TO PRODUCE DOCUMENTATION STATING SAMPLE PRODUCTION COMPONENTS HAVE BEEN TESTED TO MEET THE FOLLOWING:

I. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654 TO 10,000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10. II. HUMIDITY RESISTANCE PER ASTM D2247-02 TO 5,000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING. III. COLOR/UV RESISTANCE PER ASTM G154-04 TO 2,000 HOURS EXPOSURE, ALTERNATE

CYCLES WITH RESULTS OF NO CHALKING, 75% COLOR RETENTION, COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2,000 HOURS EXPOSURE). 2. FRAME COLOR: DETERMINED BY DISTRICT. C. FABRICATION

1. FABRICATE COMPONENTS TO PERMIT BOLTED CONNECTIONS ON SITE. NO FIELD WELDING 2. LABEL EACH MEMBER WITH UNIQUE PART NUMBER TO STREAMLINE ERECTION.

3. WELDING REQUIREMENTS: SEE DRAWINGS FOR REQUIREMENTS.

2.3 ROOF

1. ROOF MATERIAL: SEE DRAWINGS FOR REQUIREMENTS 2. ROOF HARDWARE: SEE DRAWINGS FOR REQUIREMENTS

. ROOF FINISH: KYNAR 500 HIGH-PERFORMANCE RESIN-BASED PAINT. 2. ROOF COLOR: DETERMINED BY OWNER.

2.4 MISCELLANEOUS A MATERIAL

1. CONCRETE MATERIAL: SEE DRAWINGS FOR REQUIREMENTS. CONCRETE NOT PROVIDED BY

PART 3 - EXECUTION

3.1 STORAGE AND HANDLING A. PROTECT MATERIAL AFTER DELIVERY FROM WEATHER, SUNLIGHT, AND DAMAGE.

B. ELEVATE MATERIAL TO ALLOW CIRCULATION AND REDUCE MOLD, FUNGI DECAY, AND INSECT INFESTATION. C. HANDLE MATERIAL WITH PROTECTIVE STRAPS OR PADDED FORKLIFT. HANDLING MATERIAL WITH CHAIN OR CABLE WILL NOT BE ACCEPTED AND MAY VOID MANUFACTURER'S WARRANTY.

D. TO PREVENT MOISTURE DAMAGE TO ANY WOOD MATERIAL (IF APPLICABLE), KEEP WOOD PACKAGED BEFORE INSTALLATION AND COVER IMMEDIATELY WITH ANY SECONDARY ROOF MATERIAL

A. INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S INSTALLATION DRAWINGS AND THESE SPECIFICATIONS.

ANCHOR BOLT AND COLUMN LAYOUT IS CRITICAL C. COMPLY WITH SPECIFIC BOLTING INSTALLATION REQUIREMENTS PROVIDED ON DRAWINGS REQUIRING THE CONTRACTOR TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME.

D. NO FIELD SLOTTING OR OPENING OF HOLES WILL BE ALLOWED. TOLERANCES ON STEEL STRUCTURAL MEMBERS ARE SET ACCORDING TO AISC CONSTRUCTION PRACTICES, FOLLOWED DURING FABRICATION, AND CANNOT BE INCREASED. AFTER INSTALLATION, RESTORE DAMAGED SURFACES TO THE ORIGINAL CONDITION USING TOUCH-UP PAINT PROVIDED BY MANUFACTURER. IF THE ARCHITECT DOES NOT ACCEPT THAT, REPLACE DAMAGED

MATERIAL AT NO COST TO THE DISTRICT COORDINATE AS REQUIRED WITH OTHER DISCIPLINES (ELECTRICAL, PLUMBING, ETC.) COMPLY WITH ALL APPLICABLE OHSA REQUIREMENTS

A. DO NOT ATTEMPT ANY FIELD CHANGES TO THE STRUCTURE WITHOUT FIRST CONTACTING THE MANUFACTURER.

DSA PR 13-01. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.4 QUALITY CONTROL A. TESTS AND INSPECTIONS DURING ERECTION ARE NOT REQUIRED BY THE MANUFACTURER, BUT MAY BE REQUIRED BY OTHERS.

B. THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH

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- GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
- WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.
- OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE architect/engineer, whether of material or work, are for the purpose of assisting in quality CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE
- 6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
- THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED, TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
- SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- 10. THE SCHOOL DISTRICT'S INSPECTOR OF RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
- SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIRMENTS.
- LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
- 13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.
- 14. OTHER SITE SPECIFIC ITEMS MAY BE REQUIRED.
- 15. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE

STRUCTURAL AND MISCELLANEOUS STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360 - 16 AND 303-16 MANUAL REFERENCED BY THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE.
- 2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 ksi, GRADE B UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A500, GRADE B (OR HIGHER), Fy = 46 KSI.
- IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESSES CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
- ALL CHANNELS, ANGLES, PLATES AND MISC. STEEL SHALL CONFORM TO ASTM A36, Fy = 36 KSI.
- 6. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A653, CS = TYPE B, Fy = 50 KSI.
- 7. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
- 8. ROOF DECK SHALL HAVE KYNAR 5000 METAL COATING.

PROPER MATERIAL ID AND WELDING.

- 9. ROOF DECK SHALL CONFORM TO ATSM A792, Fy = 50 KSI.
- 10. MR ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.31" (FLAT-TO-FLAT) AND INTEGRAL WASHER DIMENSION OF 0.58" (OUTSIDE DIAMETER).
- 11. SS ROOF SCREWS MEET ASTM A510 WITH A HEAD DIMENSION OF 0.437" (OUTSIDE DIAMETER).

- ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED.
- ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (O° F).
- ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE
- WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND

- ALL BOLTS SHOWN ON THESE DRAWINGS ARE ASTM F3125 (A325 TYPE 1) HIGH STRENGTH BOLTS (UNO) AND SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329.
- 2. HIGH STRENGTH BOLTS SHALL BE SAMPLED AND TESTED IN COMPLANCE WITH CBC 2213A.1.
- BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE
- ANCHOR BOLTS (HEAVY HEX HEAD, ASTM F1554, GRADE 55) SHALL BE HOT DIPPED GALVANIZED PER ASTM F2329. ANCHOR BOLTS MAY BE HEADED OR THREADED WITH A NUT THAT IS PREVENTED FROM ROTATING.
- HIGH STRENGTH NUTS SHALL CONFORM TO ASTM A563 AND SHALL BE GALVANIZED PER ASTM F2329.
- HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436 AND SHALL BE GALVANIZED PER ASTM F2329.
- THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME. ALL BOLTS SHALL BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
 - A. PRETENSIONED JOINTS (IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH A "PJ REQUIRED") MUST BE INSTALLED AND INSPECTED TO MEET ONE OF FOLLOWING REQUIREMENTS:
 - 1. TURN-OF-NUT PRETENSIONING
 - 2. CALIBRATED WRENCH PRENTENSIONING
 - 3. DIRECT-TENSION-INDICATOR PRETENSIONING (CONTRACTOR RESPONSIBLE FOR PURCHASE OF REQUIRED WASHERS)
 - B. ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF SNUG-TIGHTENED JOINTS.NOTE TO INSTALLER AND INSPECTOR(S): THE SNUG-TIGHT CONDITION EXISTS, IN PART, WHEN ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.
- THE CONTRACTOR, SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD MUST ALL AGREE ON WHICH APPROACH WILL BE USED TO PRETENSION THE BOLTS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE APPROACH AGREED TO BY ALL PARTIES LISTED ABOVE.

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER 2019 CBC TABLE 1806A. 2.
- FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D1557. FLOODING NOT PERMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECCESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- STRUCTURES SHALL BE SETBACK FROM ADAJCENT SLOPES TO PROVIDE FIRM MATERIAL FOR EMBEDMENT AND FOR PROTECTION FROM SLOPE DRAINAGE, EROSION, AND SHALLOW FAILURES.
 - A. BOTTOM OF ASCENDING SLOPE: THE SMALLER OF HALF THE HEIGHT OF THE SLOPE AND 15FT MEASURED FROM THE FACE OF THE STRUCTURE TO THE TOE OF THE SLOPE B. TOP OF DECENDING SLOPE: THE SMALLER OF A THIRD OF THE HEIGHT OF THE SLOPE AND 40 FT MEASURED FACE OF THE FOOTING TO THE TOP OF THE SLOPE
 - alternate setbacks are permitted, subject for approval. A geotechnical investigation may be
- STRUCTURES PLACED ON LIQUIFIABLE SOILS OR SITE CLASS F MAY NOT BE SUBMITTED FOR AN OVER THE COUNTER

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH f'c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	AIR ENTRAINMENT	SLUMP (± 1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.45	0.4	6%	4"	150 PCF

- CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA
- AGGREGATES SHALL CONFORM TO ASTM C33. MAX AGGREGATE SIZE = 1".
- CEMENT SHALL CONFORM TO ASTM C150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
- 6. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
- CONCRETE SHALL BE PROPORTIONED PER ACI 318-14 26.4.
- CONCRETE SHALL BE TESTED PER CBC 1910A.1, 1705A.3, AND ACI 318-14 24.13. BATCH PLANT INSPECTION NOT REQUIRED. CONTRACTOR SHALL IMPLEMENT WEIGHMASTER AND BATCH TICKET REQUIREMENTS OF CBC 1705A.3.3.1.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS: GR 60: (#4 BARS AND LARGER)
- DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
- MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
 - CAST AGAINST FORM BELOW GRADE. FORMED SLABS (#11 BAR & SMALLER). SLABS ON GRADE (FROM TOP OF SLÁB).
- COLUMNS AND BEAMS (MAIN BARS). . WALLS EXPOSED TO WEATHER (#6-#18 BARS).. (#5 & SMALLER)....
- G. NOT EXPOSED TO WEATHER (#11 & SMALLER)....... 3/4" BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE
- FOR #6 BARS AND SMALLER, REINFORCING SHALL BE LAP SPLICED 45 BAR DIA MINIMUM IN CONCRETE. FOR #7 .ap spliced 55 bar diameters minimum in concrete. All laf
- PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN
- WELDING OF REINFORCING IS NOT ALLOWED

SPLICES MUST COMPLY WITH ACI 318-14.

REINFORCING STEEL SHALL BE SAMPLED AND TESTED PER CBC 1910A.2.

POWDER COATED AND EPOXY PRIMED FINISH:

- 1. ENTIRE POWDER COATING PROCESS COMPLETED IN SAME FACILITY AS STEEL FABRICATION.
- ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES, ETC.) PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3" (UNLESS NOTED OTHERWISE).
- PARTS PRETREATED IN A 3 STAGE IRON PHOSPHATE WASHER (OR EQUAL).
- 4. EPOXY PRIMER POWDER COAT APPLIED TO PARTS FOR SUPERIOR CORROSION PROTECTION.
- TOP POWDER COAT OF SUPER DURABLE TGIC (COLOR SELECTED FROM MANUFACTURER'S STANDARD OPTIONS OR CUSTOM COLOR).
- SAMPLE PRODUCTION PARTS TESTED TO MEET THE FOLLOWING CRITERIA:
 - A. SALT SPRAY RESISTANCE PER ASTM B 117/ ASTM D 1654 10000 HOURS WITH NO CREEP FROM SCRIBE LINE AND RATING OF 10
 - B. HUMIDITY RESISTANCE PER ASTM D2247-02 5000 HOURS WITH NO LOSS OF ADHESION OR BLISTERING
 - C. COLOR/UV RESISTANCE PER ASTM G154-04 2000 HOURS EXPOSURE ALTERNATE CYCLES WITH NO CHALKING, 75% COLOR RETENTION, AND COLOR VARIATION MAXIMUM 3.0 E VARIATION CIE FORMULA (BEFORE AND AFTER 2000 HOURS

CONSTRUCTION NOTES

I. A DSA-CERTIFIED CLASS 2 INSPECTOR IS REQUIRED FOR THIS PROJECT.

EXPOSURE

- . Changes to the approved drawings and specifications shall be made by addenda or construction CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQURIED BY SECTION 4-338, PART 1, TITLE 24 CCR AND DSA
- 3. A "DSA-CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- 4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER (E.G. DISTRICT, ETC.) SHALL CONDUCT

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEER RESPONIBILITY

ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.

- . FOR THE SITE-SPECIFIC PROJECT, NEITHER POLIGON OR GHD ARE THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE
- 1. FOR THE SITE-SPECIFIC PROJECT, GHD AND POLIGON'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GHD AND POLIGON'S RESPONSIBILITY FOR THE SITE-SPECIFIC PROJECT.
- 4. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATIONS OF CONSTRUCTION, REVIEW OF INSPECTIONS REPORTS, AND SIGNING OFF ON THE VERIFIED REPORT FOR COMPLETED WORK.
- E POLIGON WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE STRUCTURES OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

SPECIAL INSPECTION NOTES:

THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE SELECTED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD. COSTS OF THE PROJECT INSPECTOR AND THE TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT.

- THE PROJECT INSPECTOR, AND ENTIRE CONSTRUCTION OVERSIGHT PROCESS, SHALL COMPLY WITH DSA PR 13-01,
- ON APPROVED PC DRAWINGS, THE STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (FORM DSA-103) BELOW <u>IS ONLY AN EXAMPLE.</u> ON APPROVED PC DRAWINGS, THE EXAMPLE FORM DSA-103 MUST BE CROSSED OUT BEFORE THE PC DRAWINGS CAN BE APPROVED AS PART OF A SITE-SPECIFIC (OR STOCKPILE) PROJECT SO THEY WILL NOT CONFLICT WITH THE OFFICIAL FORM DSA-103 FOR THE PROJECT.

DSA 103-19 LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC School District DSA File Number Increment Number Date Submitted: IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, fold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC). **NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code **KEY TO COLUMNS** GE - Indicates that the special inspection shall be performed by a registered geotechnical e nspection is required Periodic - Indicates that a peri-LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. spection is required PI - Indicates that the special inspection may be performed by a project inspector where specifically approved by DSA Test - Indicates that a test is requ SI - Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector. Performed By Code References and Note Refer to specific items identified in the Appendix listing Site has been prepared properly prior to placement of exemptions for limitations. Placement of controlled fill exceeding ontrolled fill and/or excavations fo**t** foundation: 12" depth under foundations is not permitted without a Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity. 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): Performed By Code References and Notes Test or Special Inspectior tinuous inspection to be provided by project inspector. Refer a. Inspect drilling operations and maintain complete and pecific items identified in the Appendix listing exemptions for accurate records for each pier.

b. Verify pier locations, diameters, plumbness, b Continuou≰ inspection to be provided by project inspector. Refer t diameters (if applicable), lengths and embedment into pecific items identified in the Appendix listing exemptions for bedrock (if applicable); record concrete or grout volumes c. Concrete piers. Provide tests and inspections per CONCRETE section below . CAST-IN-PLACE CONCRETE Material Verification and Testing: Performed By | Gode References and Notes Table 1705A.3 Item 5, 1910A.1 Verify use of required design mix 1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See b. Identifiy, sample, and test reinforcing steel Appendix for exemptions. LOR / Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12. **|c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and etermine the temperature of the concrete 1905A.1.15; ACI 318-14 Section 26.12. 17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES Material Verification and Testing

Test or Special Inspection a. Verify identification of all materials and: Table 1705A.2.1 Item 3a-3c. 2202A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Mill certificates indicate material properties that comply Sections A4 & A6. * By special inspector or qualified technician with requirements Material sizes, types and grades comply with when performed off-site. equirements. **b.** Test unidentified materials Periodia SI DSA IB 17-Inspection: Verify and document steel fabrication per DSA-approved except for trusses (1705A-2-4) construction documents 18. HIGH-STRENGTH BOLTS: RCSC 2014 Material Verification and Testing of High-Strength Bolts, Nuts and Washers

Test or Special Inspection Performed By Code References and Notes a. Verify identification markings and manufacturer's Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17 certificates of compliance conform to ASTM standards 8 & DSA IR 17-9. specified in the DSA-approved documents Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; . Test high-strength bolts, nuts and washers DSA IR 17-8 nspection of High-Strength Bolt Installation: c. Bearing-type ("snug tight") connections. Periodic able 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3. 1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360d. Pretensioned and slip-critical connections 16 J3.1 J3.2, M2.5 & N5.6: RCSC 2014 Sections 9.2 & 9.3: DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening **705A.2.5. Table 1705A.2.1 Items 4 & 5;** AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 19. WELDING: for Aluminum; AWS D1.3 for cold-formed steel;\AWS D1.4 for reinforcing steel; DSA IR 17- 3 (See Appendix for exemptions.) Verification of Materials, Equipment, Welders, etc.

Performed By Code References and Notes Test or Special Inspection a. Verify weld filler material identificat DSA IR 17-3. narkings per AWS designation listed/on the DSA- appro cuments and the WPS. c. Verify WPS, welder qualifications and equipment. DSA IR 17-3. Periodic 19.1 SHOP WELDING: Test or Special Inspection Performed By Code References and Note Table 1705A.2.1 Items 5a. 1-4; AISC 360-16 (and AISC 341-16 a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. s applicable); DSA IR 17-3. Inspect single-pass filet welds ≤ 5/16", floor and roof 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-1 (and AISC 341-16 as applicable); DSA IR 17-3. 23. ANCHOR BOLTS/AND ANCHOR RODS: Test or Special Inspection Performed By Code References and Notes a. Anchor Bolts and Anchor Rods mple and test anchor bolts and anchor rods not readily

entifiable per procedures noted in DSA IR 17-11.

Name of Architect or Engineer in general responsible charge: Name of Structural Engineer (When structural design has been delegated) Signature of Architect or Structural Engineer:

Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
Structural Testing and Inspection: Laboratory Verified Report Form DSA 29

Note: T/ facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, 2019 CBC

3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292 4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DIV. OF THE STATE ARCHITEC APP: 02-120968 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 02/08/2023

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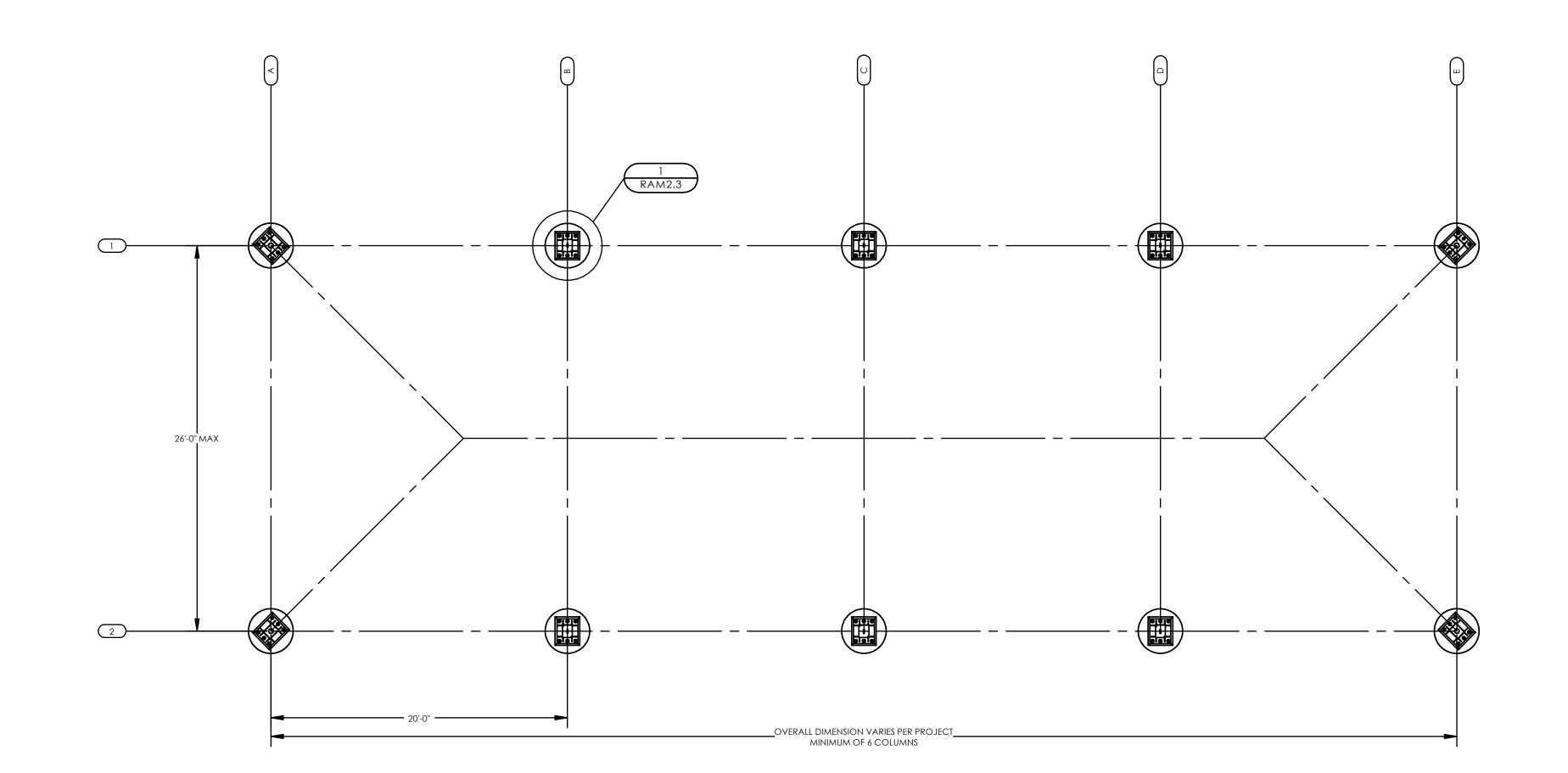
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FOUNDATION PLAN (DRILLED PIER) SCALE: 3/16" = 1'-0"

FOUNDATION PLAN NOTES:

- TOP OF ALL FOUNDATIONS MUST BE CONSTRUCTED AT ONE COMMON ELEVATION (COORDINATE WITH SITE PLANS NOT BY POLIGON)
- 2. ALL FOUNDATIONS MUST BE CENTERED UNDER COLUMNS (UNO).
- 3. SEE SHEET RAM1.1 FOR CONCRETE REQUIREMENTS.
- 4. PRIOR TO FORMING AND CASTING FOUNDATIONS, REVIEW FOUNDATION PLAN FOR REQUIRED
- 5. FOUNDATION MATERIAL AND INSTALLATION NOT BY POLIGON.
- 6. VIBRATE CONCRETE FULL DEPTH OF FOUNDATION.

DETAIL 3

SCALE: 1-1/2" = 1'-0"

1/2" TYP GUSSET INSET

FROM COLUMN

FOUNDATION-

COLUMN BASEPLATE

GROUT SHALL BE NON-METALLIC, NON-SHRINK

COLUMN BASES BELOW FINISH GRADE SHOULD BE PROTECTED FROM CORROSION, SELECT ONE OF THE FOLLOWING OPTIONS BELOW.

GROUT WITH MINIMUM f'c=6500 PSI.

COLUMNS FABICATED ASSUMING 1-1/2" GROUT PAD.

(ASSUMED CONSTANT

UNO)

INTO FOUNDATION

COLUMN BASE PROTECTION

BELOW SURFACE COLUMN INSTALLATION

ALL STEEL SURFACES BELOW GRADE

[] CONCRETE SLAB - 3" MIN ANCHOR BOLT COVER [] MASTIC COATING - 1/4" THICK MIN COATING ON

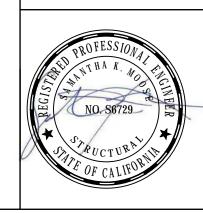
NOTES:

7. FOR DRILLED PIER FOUNDATIONS, PREVENT SOIL FROM ENTERING EXCAVATED HOLE (FORM, ETC).

─6X **Ø** 1 1/8" THRU

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STATE APPROVALS-PC

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PRE-CHECK (PC DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT ABBUICATION FOR

GUSSET PLATE 3/8" X 3" TALL X 4-1/2" LONG

FINISH GRADE - SEE NOTE 3

BASEPLATE (1"X17"X20")

GROUT UNDER BASEPLATE

(1-1/2" MAX THICKNESS)

TOP OF FOUNDATION

SEE DETAIL 3

-1" NUTS (6X)

1" WASHERS (6X) BELOW BASEPLATE (NOT BY POLIGON)

1" ANCHOR BOLTS (6X)

(NOT BY POLIGON)

OPTIONAL CONCEALING SLAB (ASSUMED AT CONSTANT ELEVATION)

— 1" NUTS (6X)

1" WASHERS (6X)

ABOVE BASEPLATE

(NOT BY POLIGON)

N PER

FOUNDATION AN DRILLED F 귑

AM2

FOUNDATION REQUIREMENTS VARY PER PROJECT SEE SHEET RAM1.0 FOR REQUIRED LOAD SCENARIO AND FOUNDATION TYPE (STEP 9 OF 'INSTRUCTIONS') ONLY REFERENCE COPY OF PC DRAWINGS SUBMITTED FOR THIS PROJECT

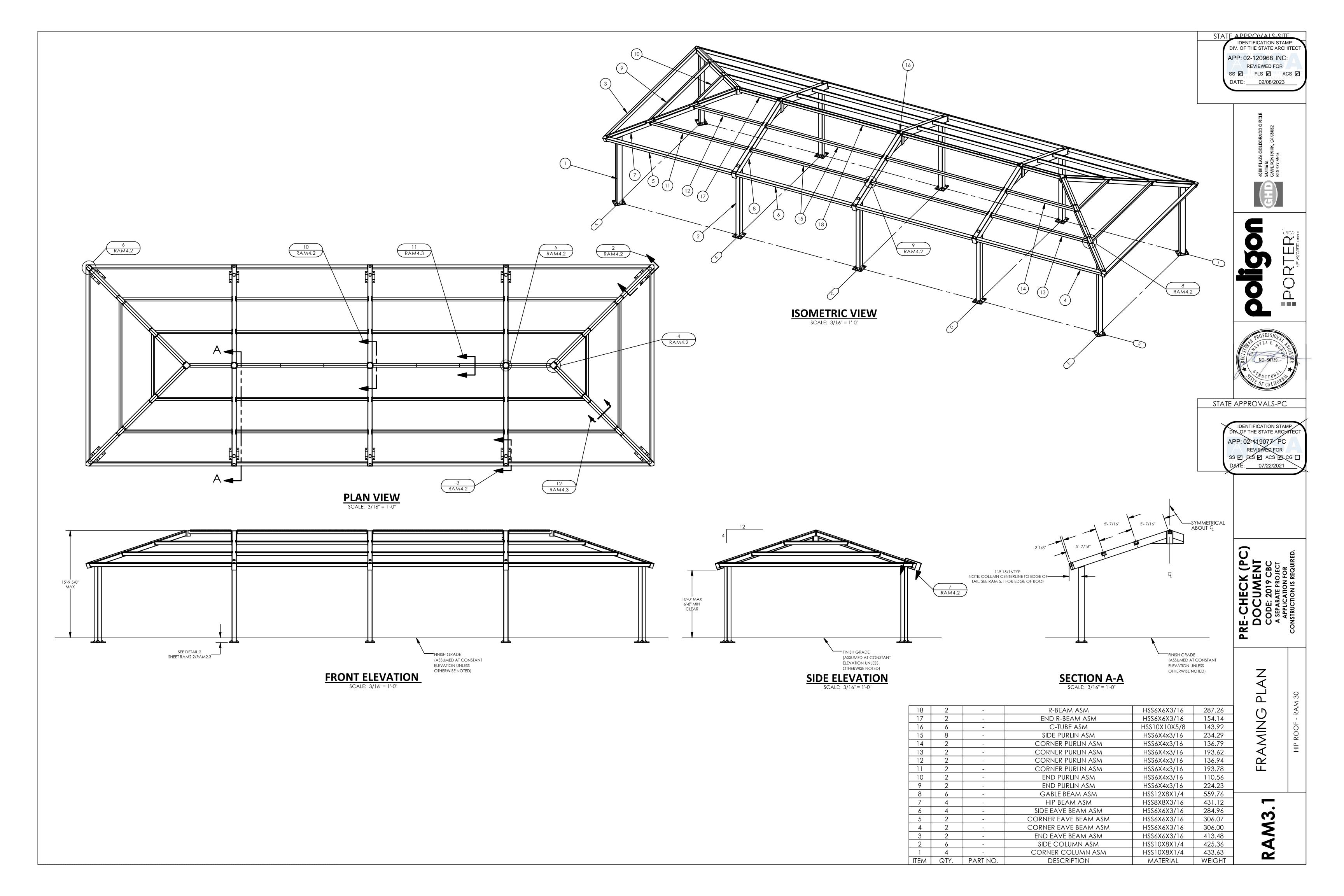
DRILLED PIER SIZE AND REINFORCING REQUIREMENTS VERTICAL REINFORCING¹ LOAD DIAMETER (Ø) DEPTH (D) **SCENARIO** QTY SIZE 3'-0'' 3'-0'' 15'-0'' 10 #7

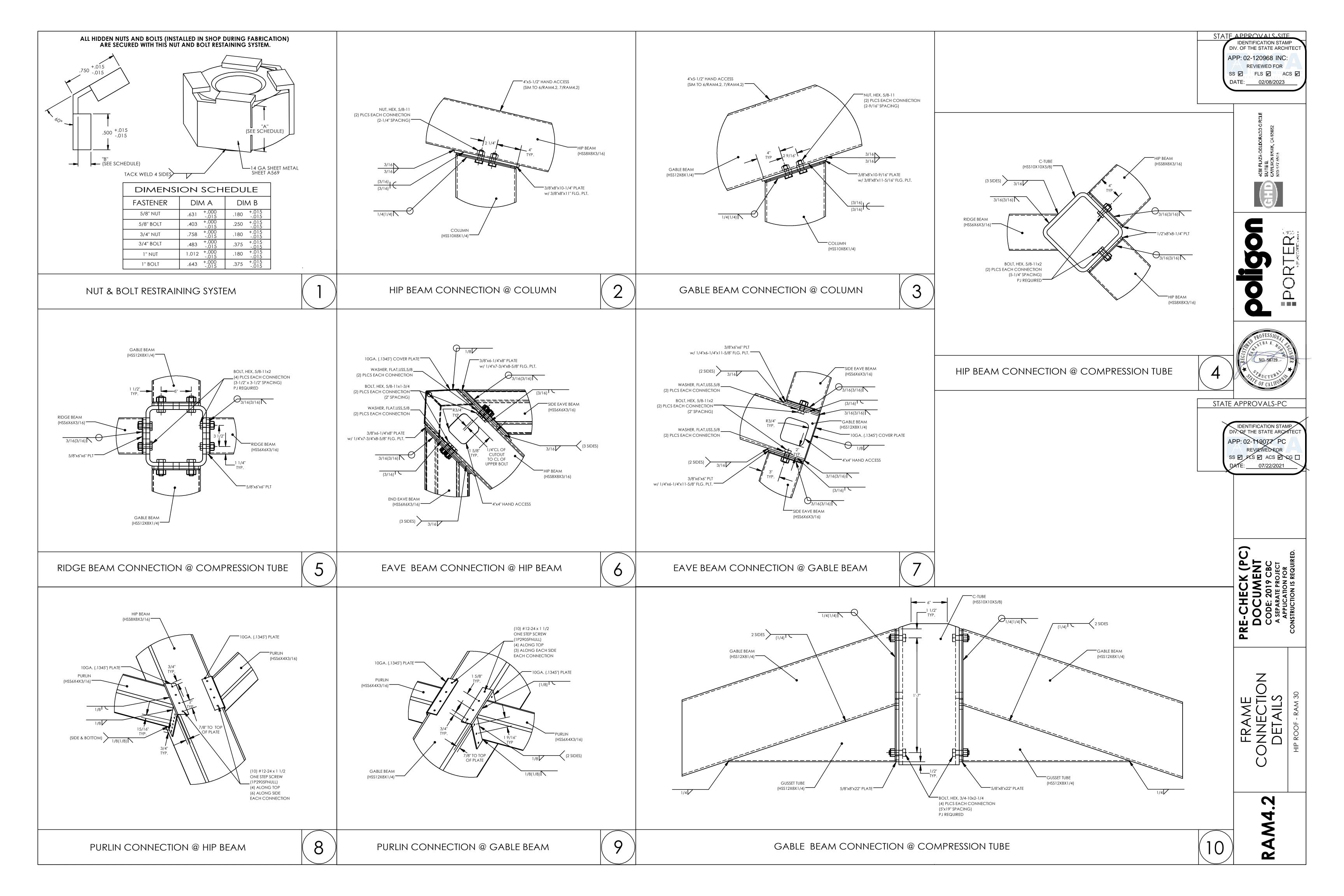
¹ EQUALLY SPACED AROUND DRILLED PIER 2 UPLIFT CAPACITY: 23.2 KIPS (FOUNDATION WEIGHT 13.8 KIPS, SKIN FRICTION 9.4 KIPS) 3 UPLIFT CAPACITY: 26.9 KIPS (FOUNDATION WEIGHT 15.9 KIPS, SKIN FRICTION 11.0 KIPS)

FINISH GRADE (ASSUMED AT CONSTANT ELEVATION) TOP OF FOUNDATION (NOT BY POLIGON) COMPRESSIBLE SLEEVE —— AROUND CONDUIT (NOT BY POLIGON) #4 HORIZONTAL TIES @ 5-1/4" OC W/2 TIES IN TOP 5" DETAIL 1 SCALE: 3/4" = 1'-0"

DETAIL 2SCALE: 1-1/2" = 1'-0"

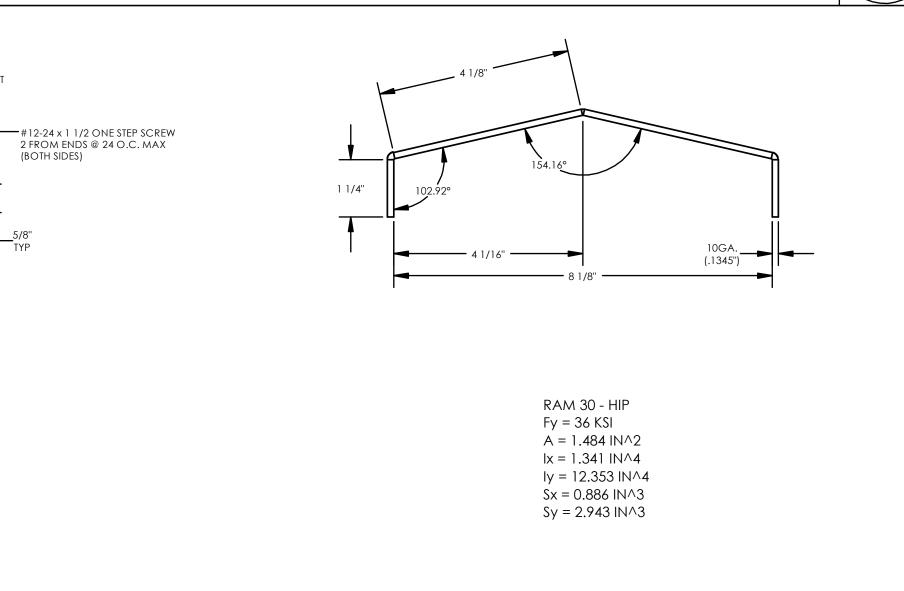
COLUMN BASEPLATE AND ANCHOR BOLTS





RIDGE BEAM DECK SUPPORT DETAIL

— HIP BEAM DECK SUPPORT



HIP BEAM DECK SUPPORT DETAIL

_HIP BEAM (HSS8X8X3/16)

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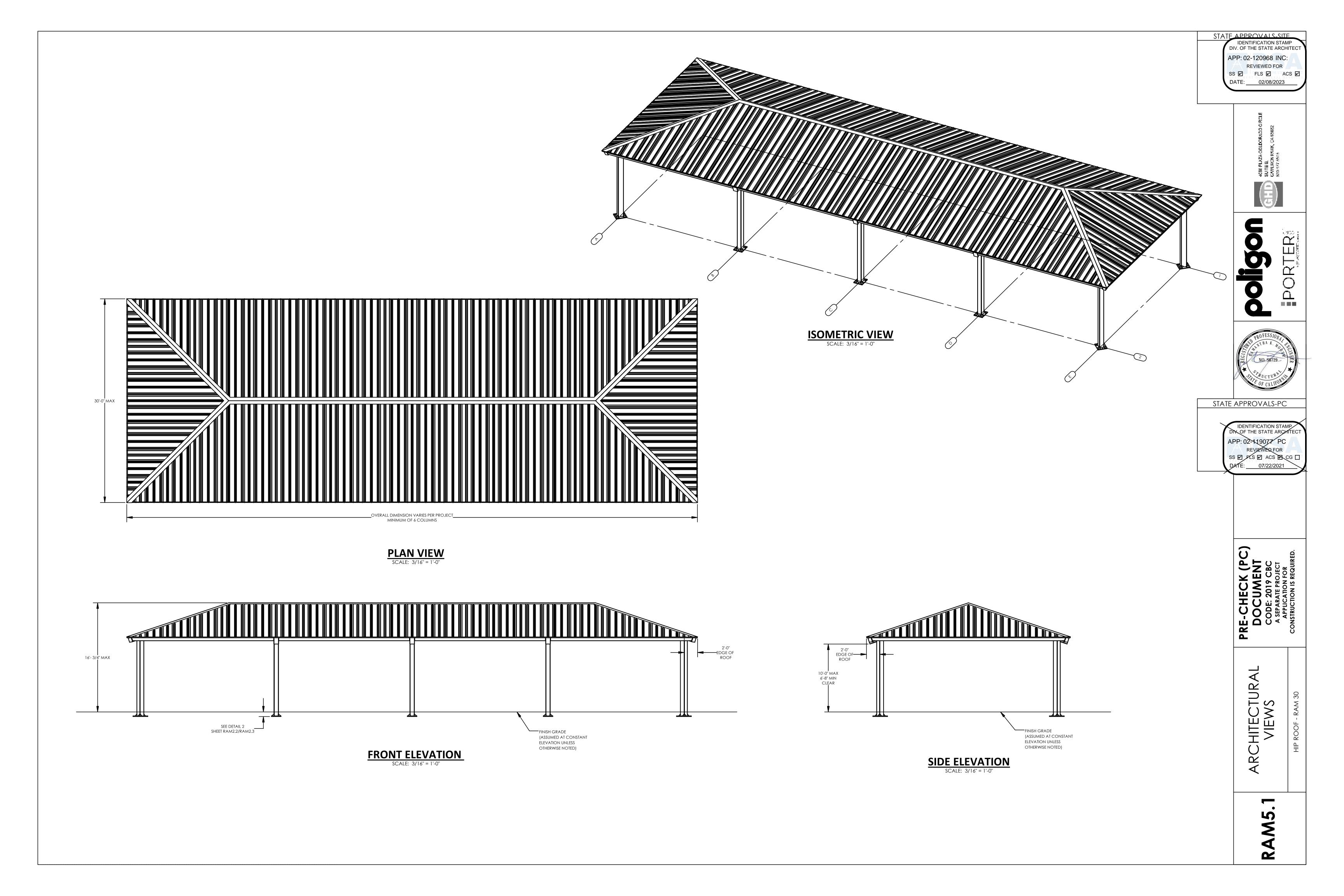


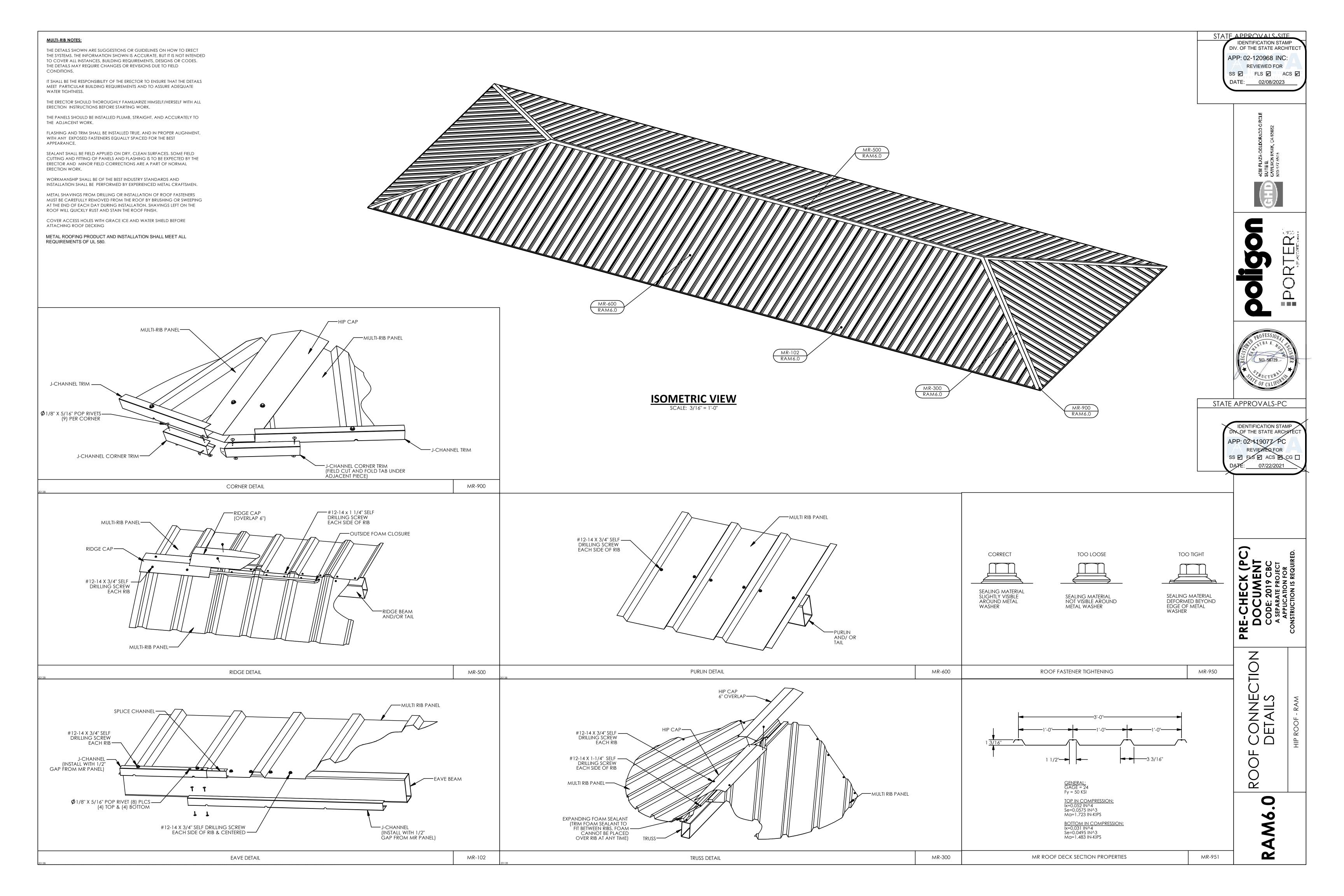


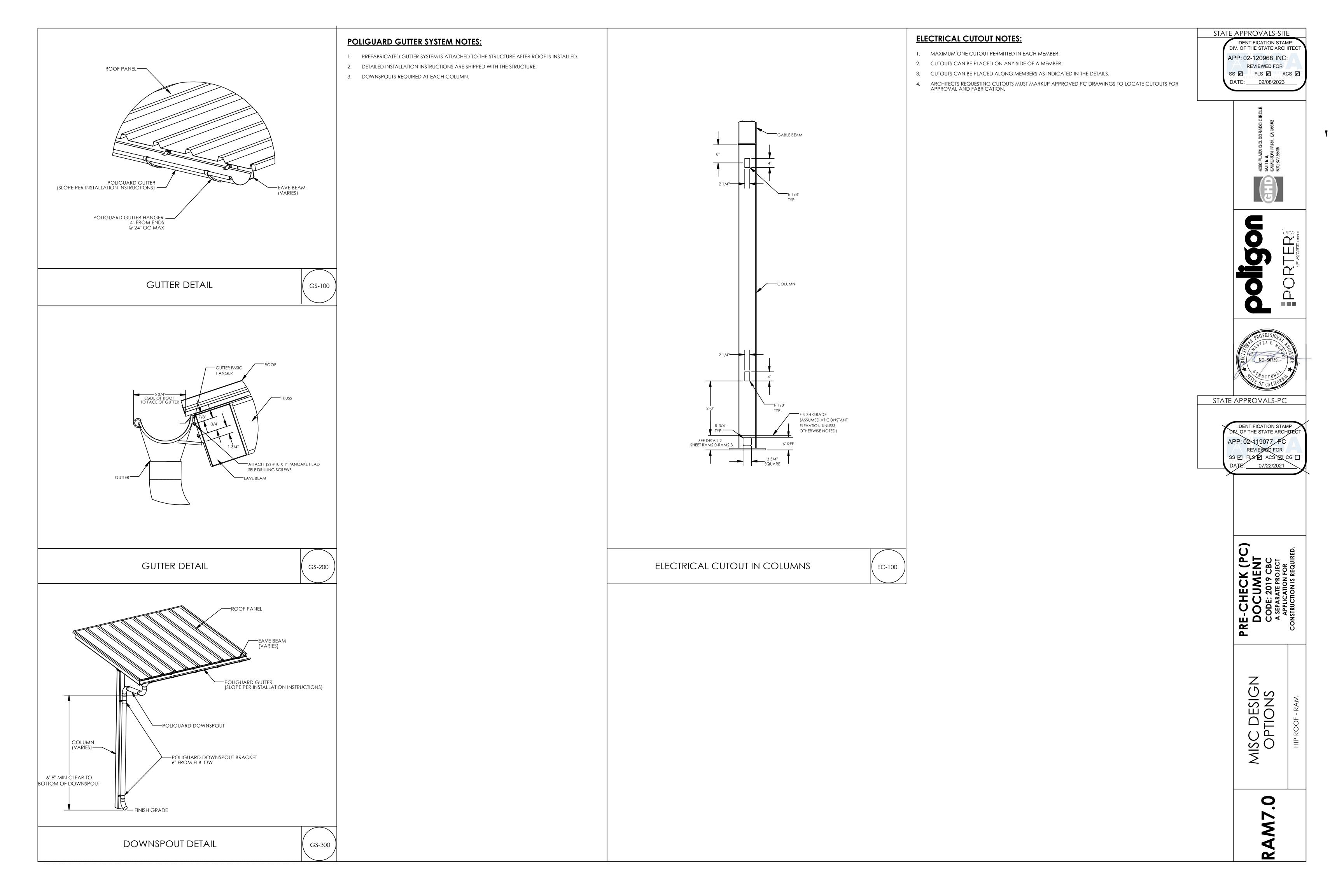
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SECTION DETAILS

RAM4.3







ELECTRICAL CUTOUT AND ACCESS INSTRUCTIONS

- IF 'YES' IS NOT SELECTED IN STEP 2 ON ORDER FORM, THEN THIS SHEET NEED
- NOT BE INCLUDED IN SITE-SPECIFIC DRAWINGS
- ONLY COLUMNS ARE PERMITTED TO HAVE ELECTRICAL ACCESS
- THE COLUMN CUTOUTS ARE STATIC AND SHOWN IN THE 'MISC DESIGN OPTIONS SHEET'
- IDENTIFY THE COLUMNS WITH ELECTRICAL CUTOUTS BELOW (REFERENCE GRID LINES IN
- ISOMETRIC FRAME VIEW TO THE RIGHT)
- STRUCTURES MAY BE LONGER OR SHORTER THAN THE ISOMETRIC FRAME VIEW SHOWN
- IF SITE-SPECIFIC STRUCTURE HAS A DIFFERENT NUMBER OF COLUMNS THAN ISOMETRIC SHOWN,

REFERENCE COLUMN A1 IN THE ISOMETRIC VIEW AND CONTINUE PATTERN TO FIT SITE-SPECIFIC LAYOUT

- IF NO COLUMNS ARE IDENTIFIED, POLIGON WILL ASSUME CUTOUTS ONLY IN COLUMN A1

- CONTACT POLIGON ENGINEERING FOR SPECIAL PROJECT SPECIFIC REQUIREMENTS

ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS

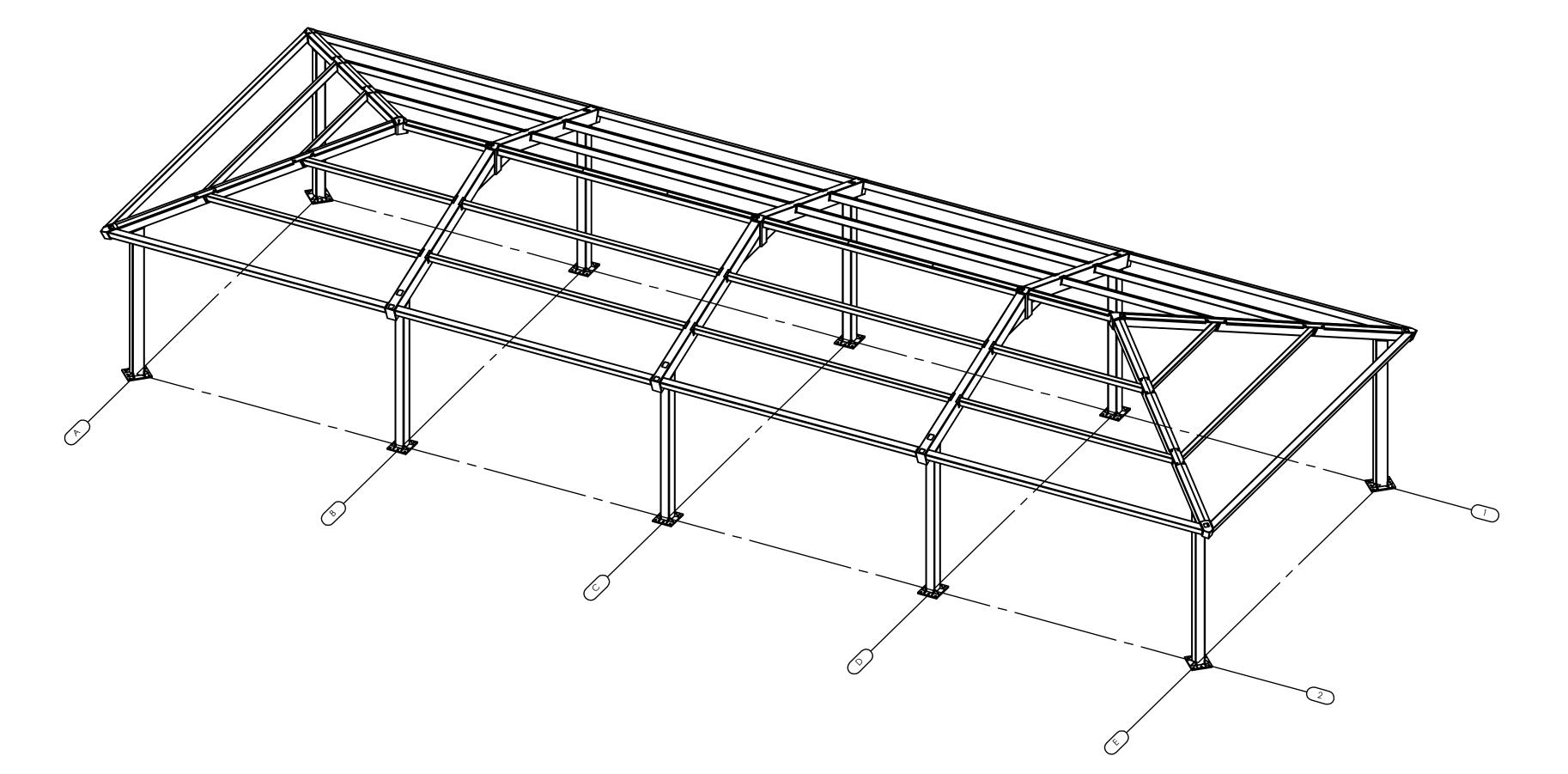
SPECIFIC MEMBERS

EXAMPLE:

ELECTRICAL CUTOUT IDENTIFICATION IN COLUMNS

SPECIFIC MEMBERS

A1, B1, F1



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ELECTRICAL CUTOUTS

RAM7.