GRAND CANYON ELEMENTARY

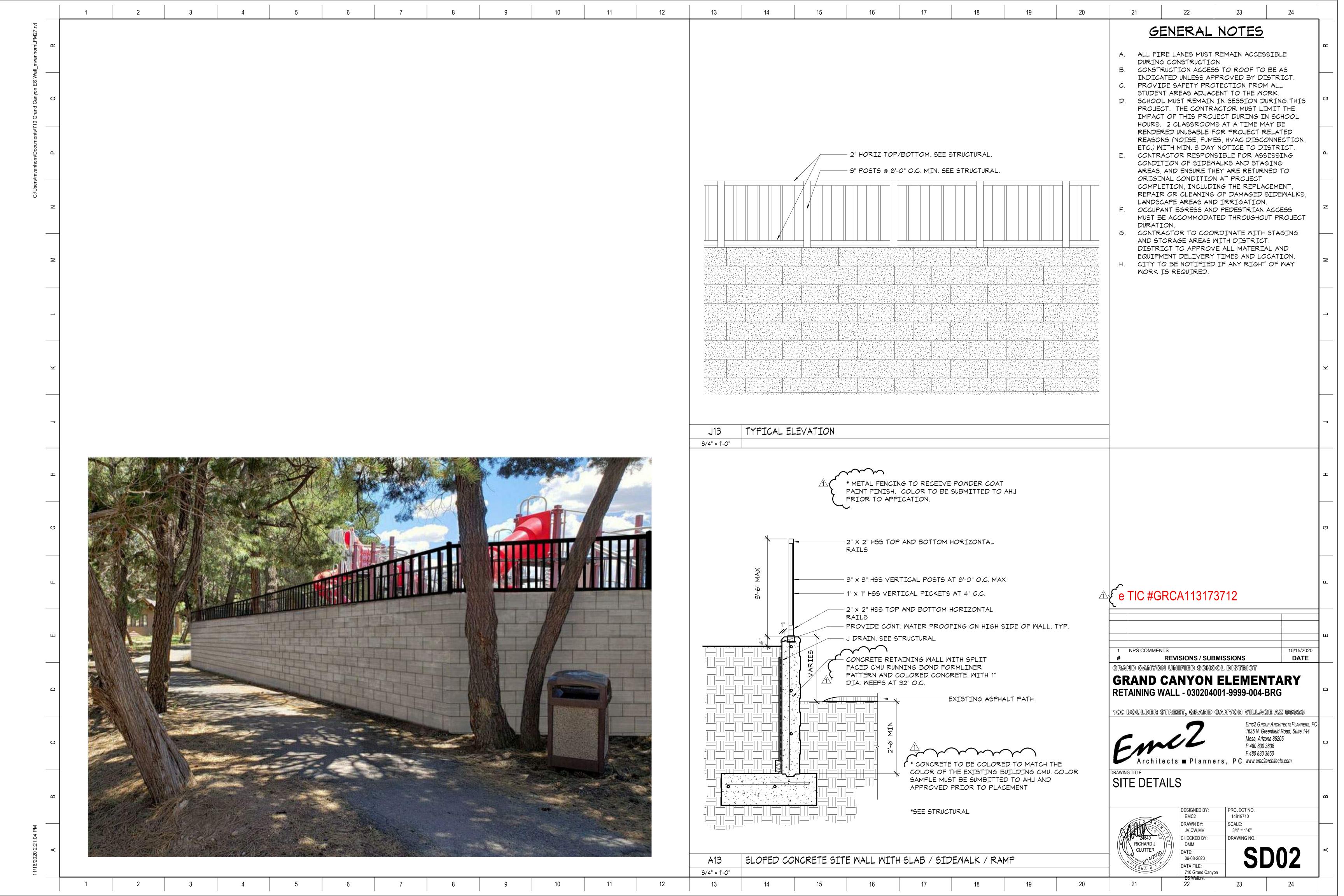


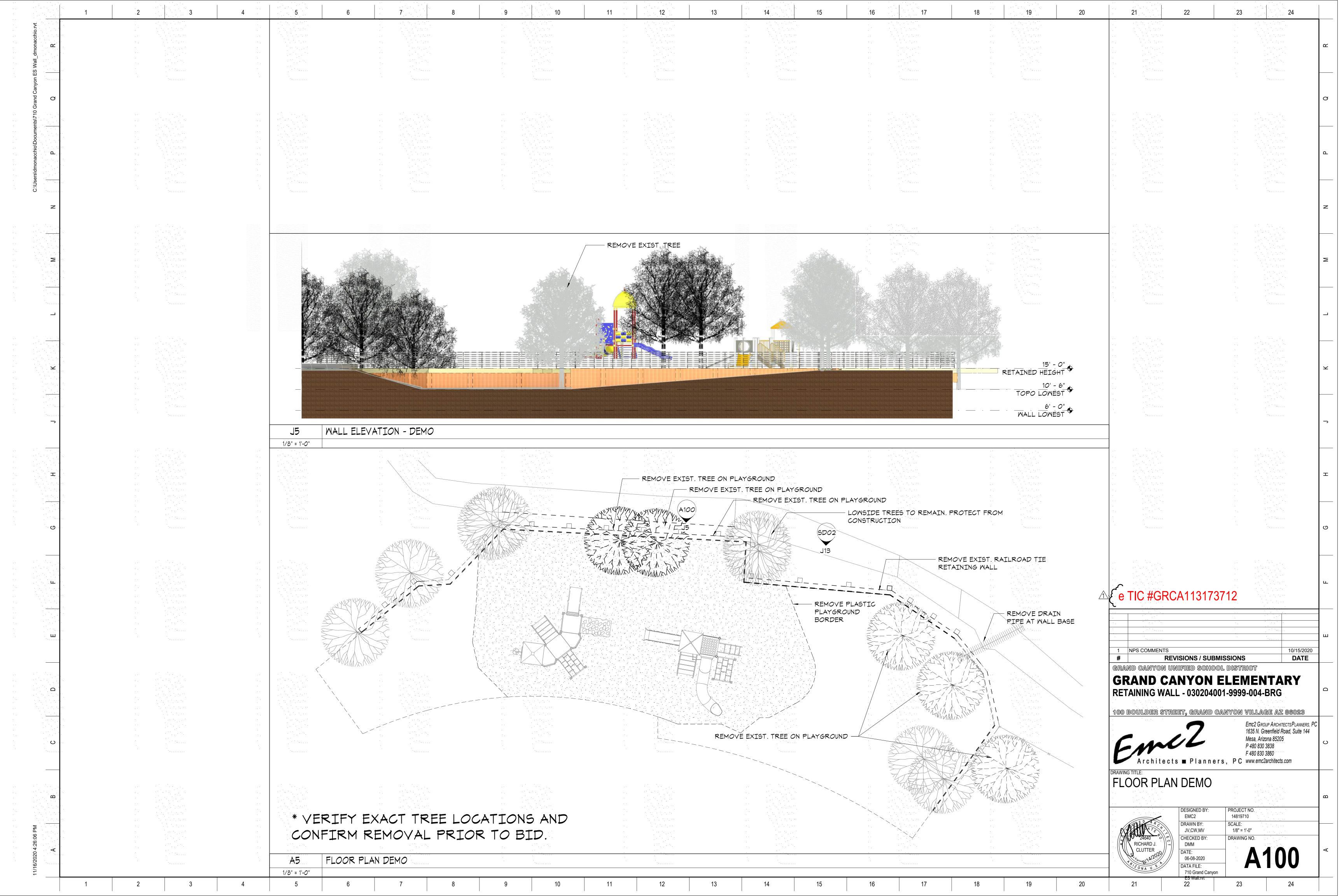
RETAINING WALL - 030204001-9999-004-BRG

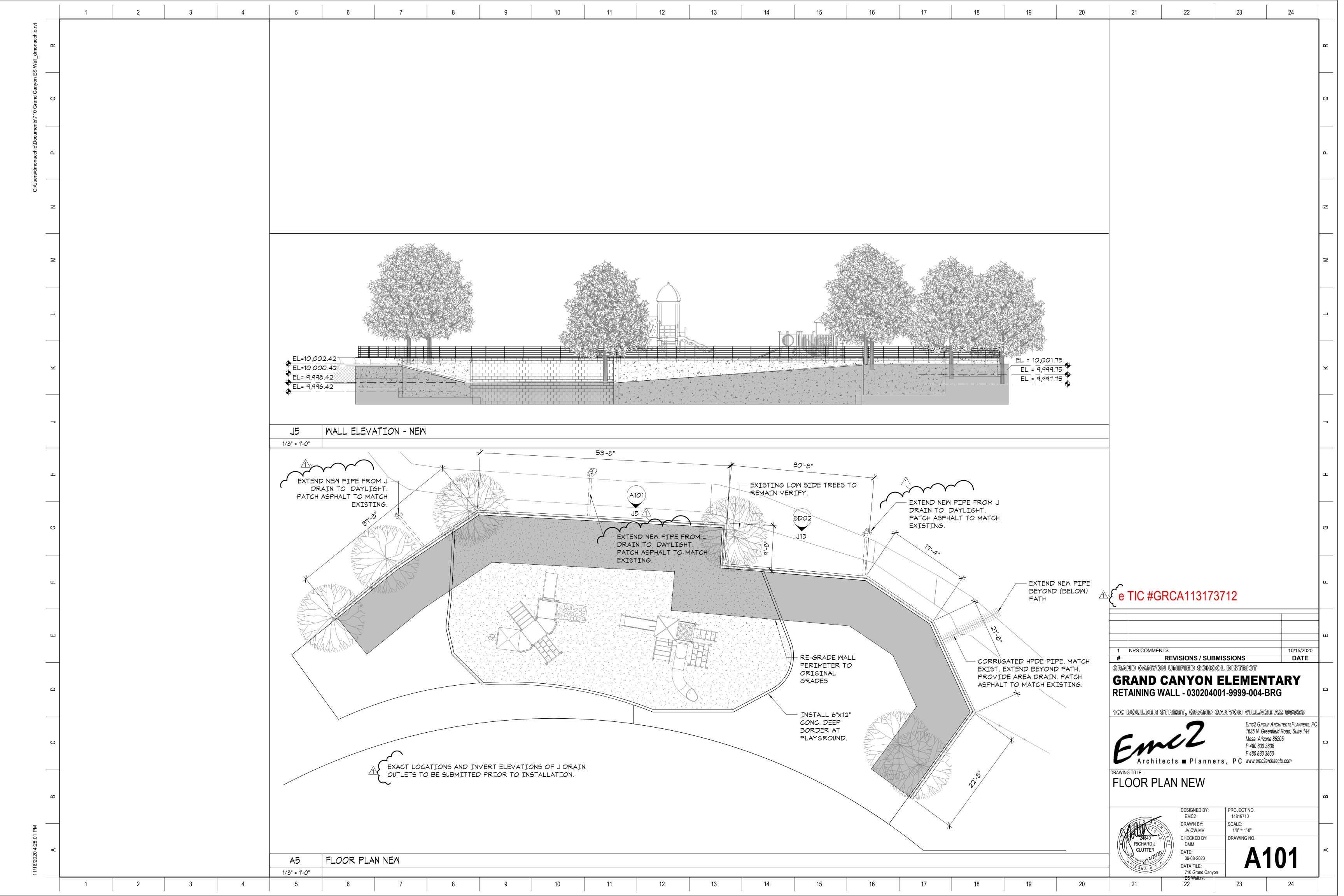


	100 BOU		ND CANYON VILLAGE A	立 86023 	
ABBREVIATIONS	SYMBOLS	MATERIALS LIST	GENERAL NOTES	OWNER / TENANT	PROJECT INFORMATIO
(ARCHITECTURAL DRAWINGS ONLY)	(ARCHITECTURAL DRAWINGS ONLY)	(ARCHITECTURAL DRAWINGS ONLY)	A. THE CONTRACTOR SHALL VISIT THE PREMISES TO REVIEW & UNDERSTAND EXISTING CONDITIONS	OWNER	GRANT FUND
ANCHOR BOLT I.B.C. INTERNATIONAL BUILDING AGGREGATE BASE COURSE CODE AIR CONDITIONING I.E. INVERT ELEVATION	BUILDING SECTION MARKER	ASPHALTIC CONCRETE PAVING	UNDER WHICH HE WILL BE OBLIGED TO PERFORM THE WORK. THE CONTRACTOR SHALL HARMONIZE HIS	E GRAND CANYON USD 1 BOULDER ST	AZ SCHOOL FACILITIES BOAR
ABOVE FINISH FLOOR INSUL. INSULATION ALTERNATE LAM. LAMINATE	SECTION IDENTIFICATION LETTER SIM ADDITIONAL INFORMATION		WORK SO EACH PIECE OF EQUIPMENT WILL BE INSTALLED TO FUNCTION PROPERLY. THE	GRAND CANYON VILLAGE, AZ 86023 PHONE: (928)-638-2461	1700 W. WASHINGTON STE 104 PHONE: (602)-542-6567
ACOUSTICAL CEILING PANEL LAV. LAVATORY BOARD MAS. MASONRY	(WHERE APPLICABLE)	BASE COURSE	CONTRACTOR SHALL COORDINATE W/OTHER TRADES	FAX: (928)-638-2045	CONTACT: DAVID KENNON
BACK FLOW PREVENTER MAT. MATERIAL BUILDING MAX MAXIMUM	SHEET NUMBER ON WHICH SECTION IS DRAWN	CONCRETE	B. WHERE DRAWINGS INDICATE EXISTING CONDITIONS AN ATTEMPT HAS BEEN MADE TO SHOW ELECTRICAL		
BLOCKING MIN. MINIMUM, MINUTE BEAM MTL. METAL	MALL SECTION MARKER		EQUIPMENT, BUILDING, SITE DETAILS, ETC. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF	TENANT GRAND CANYON ELEMENTARY SCHOOL	
BOTTOM OF STEEL MTD. MOUNTED BOTTOM N.I.C. NOT IN CONTRACT	SECTION IDENTIFICATION LETTER	EARTH	ALL EXISTING BUILDINGS, SITE DETAILS, ETC. C. THE CONTRACTOR SHALL PERFORM ALL TEMPORARY	1 BOULDER ST	ARIZONA
CABINET N.T.S. NOT TO SCALE CENTERLINE NO. NUMBER	A1 SIM— ADDITIONAL INFORMATION (WHERE APPLICABLE)	CONCRETE MASONRY	AND REMODELING WORK AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATION	GRAND CANYON VILLAGE, AZ 86023 PHONE: (928)-638-2461	School Facility
CENTER TO CENTER NOM. NOMINAL CAST-IN-PLACE O.C. ON CENTER CONTROL JOINT OPP. OPPOSITE	SHEET NUMBER ON WHICH SECTION IS DRAWN	UNIT	INCLUDING MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS	FAX: (928)-638-2045 CONTACT: FACILITIES	• BOARD•
CEILING PCP PORTLAND CEMENT PLASTER		STEEL	AND INTENT OF THE PROJECT. D. CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND		
CONCRETE MASONRY UNIT PL. PLATE CLEAN OUT PTD. PAINTED CONCRETE QT QUARRY TILE	SECTION IDENTIFICATION LETTER	TYTYTYYYYY DATT OD ACOUCTTCAI	SPECIFICATIONS AND SHALL DETERMINE THE		
CONSTRUCTION REINF. REINFORCING CONTINUOUS RM. ROOM	1 SIM - ADDITIONAL INFORMATION (WHERE APPLICABLE)	BATT OR ACOUSTICAL INSULATION	SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO;	CONSULTANTS	SFB PROJECT: 030204001-9999-004 BRG
CORRIDOR S.C. SOLID CORE CERAMIC TILE SCHED. SCHEDULE	SHEET NUMBER ON WHICH SECTION IS DRAWN	RIGID INSULATION	EXISTING, TEMPORARY, REMODELED AND NEW AREAS E. THE CONTRACTOR SHALL BE HELD FULLY	s.	GRAND CANYON ELEMENTARY - WALL
DETAIL SECT. SECTION DIAMETER S.F. SQUARE FOOT (FEET)			RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING,	STRUCTURAL BIXLER & ASSOCIATES	
DIMENSION SIM. SIMILAR EACH SPECS. SPECIFICATIONS	ELEVATION MARKER ELEVATION IDENTIFICATION LETTER	FINISH WOOD	PLASTERING, PAINTING, AND/OR OTHER REPAIR DUI TO THE CONSTRUCTION HERE IN.	8360 EAST RAINTREE DRIVE, SUITE 110	
EXPANSION JOINT STL. STEEL SUSPENDED	SIM — ADDITIONAL INFORMATION (WHERE APPLICABLE)	GYPSUM, PLASTER, OR	F. AT THE END OF THE DAY, THE CONTRACTOR SHALL PROVIDE TRAFFIC COVERS OVER ANY EXPOSED	SCOTTSDALE, AZ 85260 PHONE: (480)-219-2886	
ELECTRIC T.O. TOP OF EQUAL T.O.F. TOP OF FRAMING		STUCCO	TRENCHES. CONTRACTOR SHALL PROVIDE SUITABLE BARRICADES AND CONSTRUCTION TAPE AROUND ALL		
ELECTRIC WATER COOLER T.O.M. TOP OF MASONRY EXISTING T.O.S. TOP OF STEEL	SHEET NUMBER ON WHICH ELEVATION IS DRAWN	PLYMOOD	MORK AREAS MAINTAINING A SAFE ENVIRONMENT		
EXPANSION BOLT TLT TOILET EXPOSED STRUCTURE T.S. TUBE STEEL	DOOR MARKER		BY MEANS OF EGRESS AND ACCESSIBILITY. G. AT NO TIME SHALL THE CONTRACTOR, HIS SUB-		
EXTERIOR TYP. TYPICAL FLOOR DRAIN U.B.C. UNIFORM BUILDING CODE	0000 DOOR NUMBER		CONTRACTOR, OR ANY PERSON IN HIS EMPLOY HAVE CONTACT WITH ANY SCHOOL STAFF, FACULTY OR	SHEET LIST	
FIRE EXTINGUISHER U.N.O. UNLESS NOTED OTHERWISE FIRE EXTINGUISHER CABINET VCT. VINYL COMPOSITION TILE FINISH FLOOR LINE VERT. VERTICAL	MINDOM MARKER		STUDENTS UNLESS ABSOLUTELY NECESSARY FOR THE PROGRESS OF THE WORK.	GENERAL	
FINISH FLOOR LINE VERT. VERTICAL FINISH FLOOR VEST VESTIBULE FINISH VWC VINYL WALL COVERING	A- WINDOW NUMBER		H. CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ACCURACY OF ALL MEASUREMENTS, ESTIMATES	GOO1 GENERAL INFORMATION & SHEET INDEX	
FLOOR WD. WOOD FOOT, FEET W.H. WATER HEATER	REVISION MARKER		OF MATERIALS QUANTITIES AND SIZES, AND SITE CONDITIONS AFFECTING THE WORK.	SITE DEVELOPMENT	
FOOTING W/ WITH GUAGE W/O WITH OUT	REVISION		I. PHOTOS USED FOR REFERENCE ONLY AND REPRESENT A PAST EXISTING CONDITION. CONTRACTOR TO	SD01 SITE DEVELOPMENT PLAN SD02 SITE DETAILS	
GALVANIZED IRON WT. WEIGHT GALVANIZED WWF WELDED WIRE FABRIC	NUMBER		VERIFY ALL CURRENT CONDITIONS PRIOR TO BID. J. CONTRACTOR RESPONSIBLE TO MONITOR INTERIOR	P ARCHTTECTURAL	e TIC #GRCA113173712
GLASS XFMR. TRANSFORMER GYPSUM BOARD	GATE MARKER		AND REVIEW FOR SAFETY ALL SPACES THAT COULD	A100 FLOOR PLAN DEMO	
HOLLOW METAL HANDICAP	GATE NUMBER		POTENTIALLY BE AFFECTED BY PROJECT WORK AND RETURN THEM TO PREVIOUS USABLE CONDITION.	A101 FLOOR PLAN NEW	
HARDENED CONCRETE HOSE BIBB	FINISH MARKER		K. CONTRACTOR RESPONSIBLE TO ABATE HAZARDOUS MATERIALS DISTURBED BY THE PROJECT WORK IN	STRUCTURAL	
HAND HOLE HORIZONTAL	FINISH		ACCORDANCE WITH HCM REPORT INCLUDED AS PART OF BID DOCUMENTS, INCLUDING ALL	S1 GSN S2 TYPICAL DETAILS	1 NPS COMMENTS
HEIGHT			L. ANY ONSITE WELDING, TORCHING OR FLAME OR	S3 WALL SECTIONS	# REVISIONS / SUBMISSIONS GRAND GANYON UNIFIED SCHOOL DISTRICT
STATE MAP	VICINITY MAP	PROJECT MAP	SPARK PRODUCING WORK WILL REQUIRE A NPS HOT WORK PERMIT. A MINIMUM THREE WORKING DAY		GRAND CANYON ELEMENTA
Kuith Control of the			NOTIFICATION IS REQUIRED. M. ANY EXCAVATION WILL REQUIRE NPS DIG		RETAINING WALL - 030204001-9999-004-BRG
Merculate Grand Canyon		9100 Boulder St	PERMITTING PROCESS AND APPROVAL. A MINIMUM THREE WORKING DAY NOTIFICATION IS REQUIRED.		100 Boulder Street, grand canyon village az
As National GRAND CANYON ELEMENTARY Data Park NAVASO NATION	The second secon	NEW RETAINING WALL	THE PROPERTY OF THE PARTY OF TH		Emc2 Group Arch 1635 N. Greenfield
HUALAPATINDIAN RESERVATION Gallup	NORTH VILLAGE LOOP SOUTH/ENTRA				Mesa, Arizona 852
Kingman Williams Flagstaff Coconino Winslow BESERVA	GRAND CANYON ELEMENTARY	A CONTRACTOR OF THE PARTY OF TH			F 480 830 3860
Prescott *Cottonwood National Forest **	Boulds Boulds Center to Ralling Rd				Architects ■ Planners, PC www.emc2architect
ARIZONA Show.tows Showtows	Mauvey To Santa				GENERAL INFORMATION & SHEET
Phoenix SAN	Albright Alb				INDEX
Kota National Wildlife Refuge Reservation Reservation Reservation					DESIGNED BY: PROJECT NO. EMC2 14819710
avuma Marana Marana	St. Rongs R. Juniper Los				DRAWN BY: SCALE: JV,CW,MV As indicated
Reserva de TOHONO GONAM El Pinacate y NATION	Market Plate Red				CHECKED BY: DRAWING NO. DMM
Puerto Peñasco Sierra Vista Google	N N				CLUTTER DATE: 06-08-2020
-		- 1			DATA FILE: 710 Grand Canyon
2 3 4	5 6 7 8	0 10 11 12	40 45 40		ES Wall.rvt









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U Grand Canyon Es Wall_dr Q	1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR	8. ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS AS SHOWN ON THE FOUNDATION PLAN. KEYED CONTROL JOINTS ARE REQUIRED AT EXPOSED EDGES DURING POURING, AND SUCH THAT NO SINGLE POUR IS LARGER THAN 400 SQUARE FEET WITHOUT APPROVAL, ALL OTHER JOINTS MAY BE SAW CUT AT A MAXIMUM OF 2-1/2 ITEMS THE SLAB DEPTH IN FEET AND SHALL NOT HAVE MORE THAN A 1.5 TO 1 ASPECT RATIO. EXPANSION JOINT MATERIAL OF 1/2" IS REQUIRED WHEREVER THE SLAB ON GRADE ABUTS A VERTICAL SURFACE. ALL CONCRETE SLABS OVER STEEL DECK SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAWCUT) SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 900 SQUARE FEET.	SPECIAL INSPECTION: 1. PER IBC CHAPTER 17, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING ITEMS: SOILS: PER IBC SECTION 1704.7
uments//10	INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION WITH LOCAL AMENDMENTS.	9. ALL CONCRETE PLACEMENT SHALL COMPLY WITH THE HOT AND COLD WEATHER REQUIREMENTS OF ACI UNLESS APPROVED BY THE ARCHITECT. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH PER ACI 301.	CONCRETE CONSTRUCTION: PER IBC SECTION 1704.4 & TABLE 1704.4. NOT REQUIRED FOR SLABS ON GRADE.
ers\dmonaccnio\Doct	4. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW STRUCTURE. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CALCULATIONS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. THESE DRAWINGS REPRESENT ONLY PART OF THE COMPLETED SET OF DOCUMENTS. THE CONTRACTOR SHALL COORDINATE WITH ALL OF THE CONTRACT DOCUMENTS AND DISCREPANCIES SHALL BE	10.ALL CONCRETE SHALL BE TESTED FOR COMPRESSIVE STRENGTH AND SLUMP PER ASTM C31, C39 AND C143. PROVIDE A MINIMUM OF 4 CYLINDERS FOR EACH DAY'S PLACEMENT OR FOR EVERY 50 CUBIC YARDS, WHICHEVER IS GREATER. A QUALIFIED TESTING LABORATORY SHALL TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS AND SHALL HAVE 1 ADDITIONAL CYLINDER AS A SPARE. REINFORCING STEEL:	DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL IF REQUESTED, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN,
S.V.S.	BROUGHT TO THE ATTENTION OF THE ARCHITECT. 5. WIND DESIGN CRITERIA	1. REINFORCING STEEL SHALL CONFORM TO THE LATEST ACI AND CRSI DETAILING MANUAL AND THE FOLLOWING:	IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL. UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE
z	WIND LOAD IMPORTANCE FACTOR (IW)1.00 WIND EXPOSURE CATEGORYC RISK CATEGORYI	#4 AND LARGER DEFORMED BARSASTM A615 (Fy = 60 KSI) #3 AND SMALLER DEFORMED BARSASTM A615 (Fy = 40 KSI) ALL WELDED REINFORCING BARSASTM A615 (Fy = 40 KSI) ALL WELDED REINFORCING BARSASTM A615 FABRICASTM A706 WELDED WIRE FABRIC	THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
Σ	SEISMIC LOAD IMPORTANCE FACTOR(IE)	2. ACCURATELY SUPPORT ALL REINFORCING, INCLUDING WELDED WIRE FABRIC, WITH GALVANIZED METAL CHAIRS, SPACERS OR HANGERS FOR THE FOLLOWING CLEAR CONCRETE COVERAGES UNO: CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	
	LATERAL LOADS INDICATED ARE WORKING STRESS LOADS 7. CONSTRUCTION MATERIAL LOADS SHALL BE PLACED SUCH THAT THE LOADS DO NOT EXCEED THE LIVE LOADS SPECIFIED ON THE CONTRACT DOCUMENTS.	INTERIOR FLAT SLAB	
	8. SECTIONS AND DETAILS SHALL BE INCORPORATED AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY CUT OR NOT. TYPICAL DETAILS ARE NOT CUT ON PLANS, BUT SHALL APPLY AT ALL APPROPRIATE LOCATIONS.	3. LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH.	
~	9. THESE DOCUMENTS REPRESENT THE COMPLETED STRUCTURE. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS OR THE SAFETY PRECAUTIONS REQUIRED. NOR SHALL THE STRUCTURAL ENGINEERS INSPECTIONS OR OBSERVATIONS PERFORMED DURING CONSTRUCTION INCLUDE ANY RESPONSIBILITY FOR THESE ITEMS.	 4. LAP SPLICES IN WELDED WIRE FABRIC SHALL BE A MINIMUM OF 8". REMOVE CROSS LINK OF WELDED WIRE FABRIC AT EACH SAW JOINT. 5. ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. SPLICED BARS SHALL BE PLACED AT THE SAME EFFECTIVE DEPTH U.N.O. ALL REINFORCING NOTED AS "CONTINUOUS" SHALL BE FULLY CONTINUOUS AND SPLICED. PROVIDE BENT CORNER 	Y TO THE STATE OF
	1. FOUNDATIONS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL EXPLORATION REPORT, PREPARED BY SPEEDIE & ASSOC, DATED 05/27/2020, REPORT NUMBER #200451SF. 2. FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 3500 PSF.	BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. 6. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. SKEW HOOKS AS REQUIRED TO MAINTAIN CONCRETE COVER. SECURELY TIE ALL BARS IN PLACE PRIOR TO PLACEMENT OF CONCRETE. STRUCTURAL STEEL NOTES:	
	3. FOUNDATIONS SHALL BEAR ON COMPACTED FILL MATERIAL 24" IN DEPTH. SCARIFY AND RECOMPACT TOP 12 INCHES OF EXISTING SUBGRADE AND EACH 6" LAYER OF BACKFILL OR FILL SOIL MATERIAL TO A MINIMUM OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM	1. ALL STEEL CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE AISC HANDBOOK. THIS STRUCTURE WAS DESIGNED USING THE MANUAL OF STEEL CONSTRUCTION-ALLOWABLE STRESS DESIGN.	
	D698. 4. THE MINIMUM DEPTH OF THE TOP OF FOOTINGS BELOW THE FINISHED GRADE SHALL BE	2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:	
	12". 5. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE OWNER'S TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. THE OWNER'S TESTING AGENCY SHALL REPORT FINDINGS TO THE STRUCTURAL ENGINEER OF	STRUCTURAL STEEL SHAPES, PLATES AND BARS (EXCEPT W-SHAPES) ASTM A 36, Fy =36 KSI HOLLOW STRUCTURAL SHAPES (HSS) ASTM A 500, GRADE B, Fy = 46 KSI FOR SQUARE AND RECTANGULAR SHAPES 3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE -	e TIC #GRCA113173712
ტ	RECORD AND DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED WHERE REQUIRED. 6. NO UNBALANCED BACKFILL SHALL BE PLACED AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY	STEEL". WELD ELECTRODES SHALL BE E70XX - LOW HYDROGEN OR EQUIVALENT. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 OF THE "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN". ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY.	N.T.S.
	8. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR SLABS NOT SHOWN. 9. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. ALL INFORMATION PROVIDED WAS TAKEN FROM THE GEOTECHNICAL REPORT	4. SHOP PAINT ALL STEEL SURFACES WITH FABRICATOR'S STANDARD RUST-INHIBITING PRIMER EXCEPT AT SURFACES ENCASED IN CONCRETE, SURFACES TO RECEIVE FIREPROOFING, OR SURFACES ENCLOSED WITHIN THE BUILDING FINISHES. BEAMS, COLUMNS AND BRACES SHALL NOT BE SPLICED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.	15150 North Hayden Road Suite 220 Scottsdale, Arizona 85260 Phone: (480) 219-2886 Fax: (480) 588-8584 david.bixler@dbaaeng.com
Щ	PROVIDED. CAST-IN-PLACE CONCRETE NOTES:	SHOP DRAWINGS: 1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS	STRUCTURAL ENGINEERING Proj. No. 19.140 UNLESS THIS DRAWING IS SIGNED AND SEALED BY A LICENSED STRUCTURAL
	1. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301 AND ACI 318. 2. ALL CONCRETE WORK SHALL COMPLY WITH THE FOLLOWING:	REQUIRED BY ARCHITECTURAL SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. NO MORE THAN THREE SETS OF BLUELINES AND ONE SET OF REPRODUCIBLES WILL BE REVIEWED FOR ANY SUBMITTAL.	ENGINEER, IT IS A PRELIMINARY DESIGN AND SHALL NOT BE USED FOR CONSTRUCTION.
ш	CEMENT PER ASTM C150, TYPE II. AGGREGATE PER ASTM C33. CONCRETE SHALL BE NORMAL WEIGHT. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C94	 THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. 	ш
	3. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL BE DESIGNED FOR A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS: WALLS4,000 PSI	3. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY ITEMS WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED UNLESS NOTED ACCORDINGLY BY THE ENGINEER OF RECORD.	# REVISIONS / SUBMISSIONS DATE GRAND GANYON UNIFIED SCHOOL DISTRICT
٥	4. FLY ASH IF PERMITTED BY ARCHITECT - SHALL CONFORM TO ASTM C618, CLASS F AND	4. THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.	GRAND CANYON ELEMENTARY RETAINING WALL - 030204001-9999-004-BRG
	SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS. 5. ALL CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4". IF A SUPER PLASTICIZER IS USED, AN 8" MAXIMUM SLUMP IS ALLOWED AT THE POINT OF PLACEMENT. ALL MIX DESIGNS SHALL BE DESIGNED BY THE CONCRETE PRODUCTION FACILITY IN ACCORDANCE	5. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.	100 BOULDER STREET, GRAND GANYON VILLAGE AZ 86023 Emc2 Group A rchitects Lanners, PC
O	WITH ACI 301. MIX DESIGNS FOR POST-TENSIONING CONCRETE SHALL BE PROPORTIONED SO AS TO MINIMIZE SHRINKAGE CRACKING.	6. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS AND COMPLETENESS SHALL REST WITH THE CONTRACTOR.	1635 N. Greenfield Road, Suite 144 Mesa, Arizona 85205 P 480 830 3838
	6. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR BOLTS AND WELD PLATES SHALL BE ACCURATELY PLACED IN THE POSITIONS SHOWN AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.	7. ALLOW FIVE WORKING DAYS FOR REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.	Architects ■ Planners, PC F 480 830 3860 DRAWING TITLE: F 480 830 3860 www.emc2architects.com
а	7. MECHANICALLY VIBRATE ALL CONCRETE PER ACI.		GENERAL STRUCTURAL NOTES
			DESIGNED BY:
 NT 1.5:04			DRAWN BY: 46644 W. DAVID BIXLER BIXLER DRAWN BY: JV,CW,MV 1/8" = 1'-0" CHECKED BY: DMM DRAWING NO. DMM
124/2020 3:2 A			DATE: 06-08-2020 DATA FILE: 710 Grand Canyon
<u> </u>	1 2 3 4 5	6 7 8 9 10	11 12 13 14 15 16 17 18 19 20 21 22 23 24

