- THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS FROM THE AUTHORITY HAVING JURISDICTION.
   A. BUILDING CODE VERSION:
   2018 INTERNATIONAL RESIDENTIAL CODE W. LOCAL AHJ AMENDMENTS
- B. AUTHORITY HAVING JURISDICTION:.....
   MONTGOMERY COUNTY
   DEAD LOADS:
- A. DEAD LOADS ARE BASED UPON ASSUMED CONVENTIONAL LIGHT FRAME WOOD ASSEMBLIES . ASSUMPTIONS FOR WALL AND ROOF ASSEMBLIES ARE SHOWN BELOW:

  a. CEILING 2X6 CEILING JOISTS @ 16" OC W. INSULATION AND 1/2" GYPSYM BOARD 7 PSF
- b. FLOOR 2X12 FLOOR JOISTS @ 16" OC W. 11 1/8" SUBFLOOR, 1/2" GYPSUM BOARD & CARPET/WOOD FLORING 12 PSF
- c. ROOF 2X6 RAFTERS @ 16" OC, FIBERGLASS SHINGLES, 15# FELT, 7/16" SHEATHING 8 PSFd. WALL 2X6 STUDS @ 16" OC, 5/8" GYPSUM, INSULATION, 7/16" WOOD STRUCTURAL PANEL SIDING 12 PSF
- e. CURTAIN WALLS / WINDOWS 10 PSF f. STONE / BRICK VENEER - 40 PSF
- g. ADHERED STONE/BRICK 10 PSF B. EQUIPMENT

a. HANGING CEILING AND MECHANICAL LOADS: AN ALLOWANCE OF <u>5</u> PSF HAS BEEN MADE FOR HANGING CEILING AND MECHANICAL EQUIPMENTS SUCH AS DUCT WORK AND SPRINKLER PIPES. 3. LIVE LOADS:

### SCOPE OF DRAWINGS:

G. STAIRS...

SCOPE	DESCRIPTION	INCLUDED?
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPIRC)	REGISTERED DESIGN PROFESSIONAL OR PRIME CONSULTANT WORKING DIRECTLY FOR THE REGISTERED DESIGN PROFESSIONAL WHO IS RESPONSIBLE FOR ENSURING THE PROJECT CONSTRUCTION DOCUMENTS ARE IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING. TYPICALLY THIS IS THE ARCHITECT OR CIVIL ENGINEER-OF-RECORD.	NO
STRUCTURAL ENGINEER-OF-RECORD	STRUCTURAL CONSULTANT UNDER THE RDPIRC WHO IS RESPONSIBLE FOR ENSURING THE PRIMARY STRUCTURAL SYSTEM IS DESIGNED IN ACCORDANCE WITH THE APPLICABLE STRUCTURAL REQUIREMENTS OF ANY GOVERNING AUTHORITIES. FOR THIS PROJECT, THE CLIENT HAS NOT RETAINED DUDLEY FOR THE SUPERSTRUCTURE DESIGN, THEREFORE WE HAVE PROVIDED THE REQUIRED PERFORMANCE CRITERIA AND EXPECT THAT THE SUPERSTRUCUTRE WITH EITHER BE DESIGNED PER THE PRESCRIPTIVE REQUIREMENTS OF THE BUILDING CODE FOR LIGHT FRAME CONSTRUCTION OR THAT A STRUCTURAL ENGINEER WILL BE ENGAGED FOR THIS DESIGN, IF REQUIRED.	YES
SPECIALTY STRUCTURAL ENGINEER (SSE) SUPERSTRUCTURE DESIGN	STRUCTURAL ENGINEER RESPONSIBLE FOR THE SUPERSTRUCTURE. IT IS THE OWNER/CONTRACTOR'S RESPONSIBILTY TO ENSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. IT IS ASSUMED THAT THE SUPERSTRUCTURE WILL ADHERE TO PRESCRIPTIVE REQUIREMENTS OF THE MINIMUM REQUIREMENTS OF THE BUILDING CODE FOR LIGHT FRAME CONSTRUCTION OR THAT A STRUCTURAL ENGINEER WILL BE ENGAGED FOR THIS DESIGN, IF REQUIRED.	NO

#### FOUNDATION DESIGN CRITERIA

- GEOTECHNICAL REPORT: THIS FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN SITE-SPECIFIC GEOTECHNICAL REPORT. IN DESIGNING THE FOUNDATION FOR THE PROPOSED STRUCTURE, THE FOUNDATION DESIGN ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE GEOTECHNICAL ENGINEER'S REPORT OR ANY INFORMATION CONTAINED THEREIN. INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT(S) REFLECTS CONDITIONS AS FOUND AT THE LOCATION OF THE BORINGS. ACTUAL CONDITIONS AT LOCATIONS BETWEEN AND SURROUNDING THE BORINGS MAY DIFFER FROM THE SOIL STRATIGRAPHY DEPICTED BY THE BORINGS. IF THERE ARE ANY CONDITIONS DIFFERING FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, OR IF ANY CHANGES HAVE BEEN IMPOSED ON THE SOILS IN QUESTION SINCE THE REPORT WAS WRITTEN, THEN THE DESIGN ENGINEER OF RECORD SHOULD BE NOTIFIED IN WRITING PRIOR TO CONSTRUCTION OF THE FOUNDATION IN ORDER TO REVIEW THE EFFECTS ON THE PERFORMANCE OF THE DESIGNED FOUNDATION.
   A. GEOTECHNICAL ENGINEER: DUDLEY
- B. REPORT NUMBER:
   23-00195

   C. REPORT DATE:
   MAY 16, 2023

CONSTRUCTION OF THE FOUNDATION HAS NOT COMMENCED WITHIN THIS TIME FRAME.

- 2. THE FOUNDATION DESIGN PARAMETERS PROVIDED WILL NOT ELIMINATE POST-CONSTRUCTION FOUNDATION MOVEMENT. AS SUCH, MEASURES SHALL BE TAKEN TO INCREASE THE TOLERANCE OF THE STRUCTURE SUPPORTED BY THE FOUNDATION. MEASURES INCLUDE BUT ARE NOT LIMITED TO FREQUENT CONTRACTION (CONTROL) JOINTS FOR
- MASONRY/BRICK/STONE/STUCCO EXTERIOR VENEER (15'-0 MAXIMUM), VERTICALLY SLOTTED CLIPS TO ATTACH ROOF TRUSSES TO NON-LOAD BEARING WALLS, ETC. 3. ABNORMAL CONDITIONS: IF THE FOUNDATION IS INSTALLED DURING A DRY OR WET PERIOD, WHICH IS CONSIDERED EXTREME OR ABNORMAL, THEN THE BUILDER SHALL NOTIFY THE GEOTECHNICAL ENGINEER AND FOUNDATION ENGINEER PRIOR TO CONSTRUCTION FOR POSSIBLE SOIL CONDITIONING OR FOUNDATION RE-DESIGN.
- 4. FOUNDATION MOVEMENT: THE FOUNDATION HAS BEEN DESIGNED WITH THE ASSUMPTION THAT MOVEMENT CAN BE TOLERATED WITHIN A STANDARD PERFORMANCE LIMIT: A. STANDARD PERFORMANCE DEFLECTION LIMIT: L/360
- SOLEMOISTORE LEVEL A LASONABLET UNITIONITION SOLE MOISTORE LEVELIS REQUIRED TO BE MAINTAINED AROUND THE TOUNDATION FOR THE LIFE OF THE STRUCTURE AND THE CONTRACTOR SHALL CONVEY THIS REQUIREMENT TO THE OWNER. THE INITIAL AND ALL SUBSEQUENT OWNERS MAINTAIN THE FOUNDATION IN ACCORDANCE WITH THE LATEST REVISION OF DOCUMENT NO. FPA-SC-07, "FOUNDATION MAINTENANCE AND INSPECTION GUIDE FOR RESIDENTIAL AND OTHER LOW-RISE BUILDINGS", AVAILABLE ON THE FOUNDATION PERFORMANCE ASSOCIATION'S WEBSITE:
- WWW.FOUNDATIONPERFORMANCE.ORG. CONTRACTOR SHALL PROVIDE THIS DOCUMENT TO OWNER. 7. EXPIRATION: PLANS ARE VALID FOR 6-MONTHS FROM THE DATE THE PLANS ARE ISSUED OR REVISED BY THE ENGINEER. CONTACT ENGINEER FOR REVIEW IF PLANS HAVE EXPIRED OR IF

#### GENERAL CONDITIONS

- 1. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE SCOPE AND DESIGN INTENT. MEANS, METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. THE PURPOSE OF THESE DRAWING AND SPECIFICATIONS ARE <u>NOT</u> TO SERVE AS AN INSTRUCTION MANUAL SHOWING THE CONTRACTOR HOW TO ASSEMBLE A STRUCTURE, BUT INSTEAD DEFINE PROJECT SCOPE AND DESIGN INTENT. THE CONTRACTOR'S WORK PLAN FOR THE MEANS-AND-METHODS OF CONSTRUCTION (I.E. SHOP DRAWINGS, SCHEDULES, SUBCONTRACTS, ETC.) MUST DEFINE WHEN AND HOW THE STRUCTURE WILL BE CONSTRUCTED.
- REVIEW AND/OR ANALYSIS OF EQUIPMENT, MATERIAL STOCKPILING, ETC. TO BE PLACED ON THE STRUCTURE ARE NOT WITHIN THE STRUCTURAL ENGINEER OF RECORDS BASIC SCOPE OF SERVICES. THESE SERVICES CAN BE
  PROVIDED AS AN ADDITIONAL SERVICE OR THE CONTRACTOR CAN ENGAGE A SPECIALTY STRUCTURAL ENGINEER TO CONDUCT THE REVIEW/ANALYSIS.
- REFER TO DRAWINGS/SPECIFICATIONS OTHER THAN STRUCTURAL FOR COMPLETE INFORMATION REGARDING: SLEEVES, CURBS, INSERTS, DEPRESSIONS, OPENINGS, ETC.
   IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST REVISIONS/ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR
- TO THE SUBMITTAL OF SHOP DRAWINGS OR MATERIAL PROCUREMENT. 5. THE USE OR REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
- ALL WORK SHALL CONFORM TO OSHA STANDARDS.
   THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL COMPARE ALL DESIGN DISCPLINE DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE DESIGN TEAM PRIOR TO THE BUY-OUT, FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
   FRAMING LAYOUTS ARE PROVIDED TO REPRESENT DESIGN CONCEPTS AND SYSTEMS CONSTRUCTION. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR MATERIAL QUANTITIES AND ANY AND ALL UNSPECIFIED COMPONENTS REQUIRED FOR CONSTRUCTION.
- 10. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR ARE EQUALLY SPACED BETWEEN THE LOCATED MEMBERS. 11. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN OR SPECIFIED IN SIMILAR CONDITIONS. 12. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, THE STRUCTER AS INDICATED BY THE
- ENGINEER, SHALL GOVERN. 13. ANY CHANGE ORDERS OR CONSTRUCTION CHANGE DIRECTIVES RELEVANT TO THE STRUCTURAL ENGINEER'S SCOPE OF WORK MUST BE PROMPTLY SENT TO THE STRUCTURAL ENGINEER FOR REVIEW & APPROVAL PRIOR TO
- ISSUANCE. 14. THE FLOOR DESIGN LIVE LOAD FOR EACH ELEVATED FLOOR STRUCTURE OR PORTION THEREOF THAT EXCEEDS 50 POUNDS PER SQUARE FOOT (PSF) SHALL BE STATED ON DURABLE SIGNS AND CONSPICUOUSLY POSTED BY THE OWNER IN THE APPLICABLE AREA(S) OF THE BUILDING.
- 15. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATING FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTRACTION (CONTROL) JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.
- 16. THE STRUCTURAL ENGINEER'S ROLE DURING CONSTRUCTION A. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO
- CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. a. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF THE STRUCTURAL ENGINEER IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK COMPLETED AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN A MANNER INDICATING THAT THE WORK, WHEN FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION(S) BY THE ENGINEER SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, AS THAT IS THE RESPONSIBILITY OF INSPECTIONS &
- SPECIAL INSPECTIONS. THE ENGINEER'S PERIODIC OBSERVATIONS ARE IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR. b. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE STRUCTURAL ENGINEER OF SCHEDULED DATES FOR CONSTRUCTION INCLUDING BUT NOT LIMITED TO THE FOLLOWING, IF APPLICABLE: • FIRST STRUCTURAL CONCRETE POUR
- FIRST ELEVATED CONCRETE POUR ON STRUCTURE
  FRAMING COMPLETION AFTER MEP ROUGH-IN.
- c. THE CONTRACTOR MUST PROVIDE A MINIMUM 48-HOURS NOTICE TO THE STRUCTURAL ENGINEER.
   17. WATERPROOFING OF THE BUILDING ENVELOPE IS OF CRITICAL IMPORTANCE TO LONG-TERM STRUCTURAL PERFORMANCE. WATERPROOFING DESIGN SHALL BE THE RESPONSIBILITY OF THE ARCHITECT/CONTRACTOR AND SHALL BE IN ACCORDANCE WITH BEST PRACTICES FOR THE LOCALITY AND THE PARTICULAR ASSEMBLY.
- ANY SUSPENDED EQUIPMENT, CEILING, ETC. TO BE HUNG FROM THE STRUCTURE, SHALL NOT EXCEED THE ALLOWABLE HANGING CEILING & MECHANICAL LOAD IDENTIFIED IN THE DESIGN CRTIERA. FURTHERMORE, ANY CONNECTION TO THE STRUCTURE SHALL BE DONE TO WHERE THE LOAD IS CONCENTRIC TO THE MEMBER (I.E. BEAM CLAMPS ONLY ON ONE SIDE OF THE MEMBER ARE NOT ALLOWED).
   FLATWORK (SIDEWALK, PAVEMENT, STOOPS, ETC.) ADJACENT TO THE STRUCTURE IS NOT WITHIN THE SCOPE OF THE STRUCTURAL ENGINEER-OF-RECORD. THE CIVIL ENGINEER & CONTRACTOR SHALL FOLLOW ALL
- RECOMMENDATIONS FROM THE GEOTECHNICAL REPORT AND REQUIREMENTS OF THE BUILDING CODE (IMPERVIOUS SURFACE SHALL BE PERMITTED TO BE SLOPED LESS THAN 2% WHERE THE SURFACE IS A DOOR LANDING OR RAMP. THE PROCEDURE USED TO ESTABLISH THE FINAL GROUND LEVEL ADJACENT TO THE FOUNDATION SHALL ACCOUNT FOR ADDITIONAL SETTLEMENT OF BACKFILL, FREEZE/THAW DUE TO FROST, AND HEAVE/SUBSIDENCE DUE TO EXPANSIVE SOIL.)

#### CONTRACTOR QUALIFICATION

- WORK SHALL BE PERFORMED BY A QUALIFIED CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR EXPERIENCED IN THIS TYPE OF WORK. SUCH KNOWLEDGE SHALL INCLUDE MAKING ALLOWANCES FOR PERFORMING WORK OF THIS NATURE FOLLOWING INDUSTRY STANDARDS OF CARE.
   THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS SHALL UNDERSTAND THE NATURE OF DRAWING PRODUCTION AND COORDINATION BETWEEN CONSULTANTS AND SHALL NOT ENTER INTO A CONTRACT BASED ON
- DRAWINGS THAT ARE BELIEVED TO CONTAIN DISCREPANCIES OR ARE OTHERWISE INCOMPLETE UNLESS PROPER ALLOWANCES HAVE BEEN MADE FOR COST IMPLICATIONS THAT MAY ARISE DUE TO FUTURE DRAWING CHANGES MADE IN PREPARATION OF FINAL CONSTRUCTION DOCUMENTS.
- 3. IN THE COURSE OF PRODUCING AND ISSUING DRAWINGS, VARIOUS STAGES OF COMPLETION ARE DEVELOPED. THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS SHALL UNDERSTAND THE PURPOSE AND CONTENT CONTAINED IN PERMIT, PRICING, AND CONSTRUCTION DRAWINGS. COST IMPLICATIONS AND CONTRACTIBILITY ARE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE OWNER.

#### FUTURE EXPANSION

1. NO PROVISIONS FOR ANY FUTURE EXPANSION HAVE BEEN MADE IN THE STRUCTURAL DESIGN.

ELEMENT	f'c	EXPOSURE CATEGORY	MAX CL-	max fly ash	MAX W/CM RATIO	MAX COARSE AGG. SIZE	MIN. AIR CONTENT <sup>E</sup>	
		CONCRETE MIX	REQUIREMENTS					
MAIERIALS, SIZES, LENGIHS, CO OPENINGS, FORMWORK COATI B. THE MINIMUM COMPRESSIVE ST	NGS, AND ALL OTHER PER	TINENT INFORMATION.			d, draced, CONSIRL	JUINIS, REVE	.nlo, CAVIDEK,	
A. THE CONTRACTOR SHALL SUBMI RECORD AND SHALL BE REVIEW	T FORMWORK DRAWING ED BY THE ENGINEER FOR	S, PREPARED UNDER THE SUPE CONFORMANCE TO STRUCT	URAL LAYOUT ONLY. SUC	CH SHOP DRAWINGS SH	ALL INDICATE ALL D	IMENSIONS AND TYP	PES OF	
<ul> <li>B. CONCRETE SHALL BE PROPERLY</li> <li>C. PLACEMENT OF CONCRETE SHALD</li> <li>D. TOLERANCES FOR CONCRETE C</li> <li>6. FORMWORK - NOT APPLICABLE TO</li> </ul>	LL BE COMPLETED WITHIN CONSTRUCTION SHALL CO	N 90 MINUTES AFTER THE INTRO INFORM TO THE LATEST ED. OI	DUCTION OF THE MIXIN	G WATER (BATCH TIME	, IN ACCORDANCE		ERIALS).	
5. PLACEMENT: A. CONCRETE SHALL BE PLACED C B. CONCRETE SHALL BE PROPERLY	AREFULLY SO AS NOT TO I	DEVIATE REINFORCEMENT FRO	OM THE DESIGN LOCATIC	DN.		, indicated in THE I	WULL DELUW.	
<ul> <li>A. TWO-COMPONENT STSTEMS</li> <li>4. CHLORIDE ION</li> <li>A. FOR CORROSION PROTECTION CONTRIBUTED FROM THE THE IN</li> </ul>	OF REINFORCEMENT IN C	CONCRETE, MAXIMUM WATER	R SOLUBLE ION CONCENT	IRATIONS IN HARDENE				
E. COMPRESSIBLE (JOINT) FILLER A a. MUST ADHERE TO ASTM D17. F. ADHESIVE ANCHORING SYSTEM. a. TWO-COMPONENT SYSTEMS	51 ASPHALT-SATURATED CI S	ELLULOSIC FIBER	ET-XP DOMERS DE 10001	1				
C. PEA STONE (PEA GRAVEL) AC D. WATER a. COMPLY WITH THE REQUIRE	MENTS OF ASTM C1602.							
C. NORMAL WEIGHT AGGREGATE: a. USE ASTM C33. b. MATERIAL CERTIFICATES FRC	IM THE AGGREGATE SUPP		H THE CONCRETE MIX DES	SIGN.				
<ul> <li>a. FLY ASH MAY BE USED TO RE LISTED IN THE CONCRETE TAI</li> <li>b. USE ASTM C618 CLASS C OR</li> <li>c. NORMAL WEIGHT ACCREGATE</li> </ul>	BLE. F.	, UNITOIN CEMENT, JUBJEC		THE ANOTHER FAND 31	NUCIUNAL ENGINEE	R TRUT TU EAUEED IF		
a. USE ASTM C150 TYPE I OR TY B. FLY ASH:		,						
<ol> <li>AIK-ENIKAINED CONCRETE SHA</li> <li>CONCRETE CONSTRUCTION MATER EQUAL TO OR BETTER THAN THE SPECE</li> <li>A. HYDRAULIC CEMENT:</li> </ol>	RIALS: (FOR ALL MATERIALS					SH THE THAT SUBSITUT	e product is	
b. IF THE CONTRACTOR HAS DE AND POINT OF PLACEMENT. F. AIR-ENTRAINED CONCRETE SHA	EVELOPED AN ACCEPTABL	E (APPROVED BY SPECIAL INS	SPECTOR AND EOR) COR	RELATION BETWEEN FR		Perties at the poin	T OF DELIVERY	
E. SLUMP TESTS SHALL BE PERFORM a. IF THE POINT OF DELIVERY IS	IED AT THE POINT OF PLAC THE SAME AS THE POINT C	OF PLACEMENT (CONCRETE IS	IS NOTED BELOW: S PLACED DIRECTLY FROM	M TRUCK)				
<ul> <li>ALL WATER ADDITIONS SH</li> <li>WATER SHALL BE INJECTE</li> </ul>	HALL BE COMPLETED WITH D INTO THE MIXER WITH S	E MIXER EXCEPT FOR SLUMP T HIN 15 MINUTES FROM THE STA UCH PRESSURE AND DIRECTIO	ART OF THE FIRST WATER A ON OF FLOW TO ALLOW F	FOR PROPER DISTRIBUT		ER.		
	XIMUM WATER CONTENT	FOR THE BATCH AS ESTABLISH		ONCRETE MIXTURE PRC	PORTIONS.			
	MIXTURE PROPORTIONS.	ADDITION OF WATER SHALL B						
SHALL COORDINATE WITH THE C RATIO HAS DETRIMENTAL EFFECT	CONCRETE SUPPLIER TO A	DD ADDITIONAL WORKABILITY	Y VIA PLASTICIZER, SUPERF	PLASTICIZER, ETC. WITH	OUT INCREASING TH	E W/C RATIO. EXCEE	DING THE W/C	
D. NO WATER SHALL BE ADDED AT THE WATER WITHHELD AT THE PL C94, SEE BELOW. IF ADDITIONAL	THE SITE (RE-TEMPERING) ' ANT ON EACH BATCH TICK	WITHOUT THE SPECIAL INSPEC KET. WHEN THE SLUMP IS BELC	CTOR PRESENT TO ENSURE DW REQUIRED, WATER CA	N BE ADDED, BUT MUS	I BE DONE IN ACCO	RDANCE WITH ACI 3	01 and astm	
<ul> <li>d. NOT EXCEED THE MAXIMUM</li> <li>B. ADHERE TO THE MINIMUM CEM</li> <li>C. THE CONTRACTOR MUST INDIC/</li> </ul>	W/C RATIO. ENTITOUS MATERIAL CON							
EMPLOYED, WITHOUT SEGRE b. MEET REQUIREMENTS FOR A c. MEET OR EXCEED THE REQUI	PPLICABLE EXPOSURE REG							
<ul> <li>A. ALL CONCRETE MIXES SHALL CO BE SUBMITTED FOR EACH CONC a. PROVIDE WORKABILITY AND</li> </ul>	CRETE MIX. PROPORTIONS CONSISTENCY TO PERMIT	OF MATERIALS FOR CONCRE I CONCRETE TO BE WORKED	ETE SHALL BE ESTABLISHED	TO:				
D. WELDING OF REINFORCEMENT 2. CONCRETE MIX DESIGN & PLACEM	IS NOT ALLOW WITHOUT V ENT:	VRITTEN PERMISSION FROM E	NGINEER.				11/210 011411	
A. CONCRETE WORK SHALL CONF B. POINT OF DELIVERY = AT DISCH, C. POINT OF PLACEMENT = AT THE	ARGE FROM THE CONCRE	ETE MIX TRUC (END OF THE CH	HUTE)			MENTS.		
1. GENERAL	<u> </u>							
STUD WELDING COMPANY OR THE	KSM WELDING SYSTEMS C							
BAR, REINFORCEMENT IN STRUCTUR 10. HEADED CONCRETE STUD ANCHOR AUTOMATICALLY END WELDED WIT	'AL SLABS, WALLS OR ELEV 25 ("HSA") FASTENED TO AN	ATED STRUCTURES SHALL REFE	er to the typical lap sp Son or KSM headed co	PLICE DETAIL. DNCRETE ANCHORS (O	R APPROVED ALTER	NATIVE). ANCHORS S	HALL BE	
<ul> <li>b. NO. 5 BAR AND SMALLER</li> <li>C. CONCRETE NOT EXPOSED TO W</li> <li>9. UNO, ALL LAP SPLICES OF REINFORG</li> </ul>	'EATHER OR IN CONTACT CEMENT IN GROUND SUPF	WITH GROUND ¾" PORTED ELEMENTS (GRADE BI		,	NIMUM OF 48Ø, WH	iere Ø = the diamet	ER OF THE	
<ul> <li>B. CONCRETE EXPOSED TO EARTH</li> <li>a. NO. 6 AND LARGER</li> </ul>	OR WEATHER:							
<ol> <li>KLINI OKCEMENT MAT BET EACED T COVER NOT SPECIFICALLY DETAILED</li> <li>COVERAGE: THE FOLLOWING SHAL</li> <li>CONCRETE CAST AGAINST AND</li> </ol>	d on the drawings sha L be the minimum reinfo	LL BE IN ACCORDANCE WITH DRCEMENT CONCRETE COVI	HACI 318.			<u>_</u> 0 (68) (19)		
STRENGTH. 6. END HOOKS, DEVELOPMENT LENGT 7. REINFORCEMENT MAY BE PLACED I	.,			LES OF REINFORCEME	NT OR TENDONS OF	3 INCHES MINIMUM.	CONCRETE	
REINFORCEMENT. IF ALTERNATE IS T A. PRECAST CONCRETE SUPPORTS WHEN PERMITTED, PRECAST SUP	(UTILITY BRICKS) MAY ONI	LY BE USED AT THE BOTTOM C	OF GRADE BEAMS WITH A	DEPTH OF AT LEAST 18"				
<ol> <li>CONCRETE REINFORCEMENT BARS</li> <li>ALL REINFORCING STEEL SHALL BE S</li> </ol>	UPPORTED AT DESIGNED I	DEPTH USING PLASTIC OR ME	TALLIC CHAIRS SPACED A	AT 48" OC IN ALL DIREC	TIONS TO SUPPORT F	FULL LENGTH OF		
<ul> <li>D. THE PLACING DRAWINGS MUST</li> <li>COMPLETE REINFORCING PLACING PLACING OF CONCRETE.</li> </ul>			15 SHALL BE REVIEWED BY	( THE ENGINEER AND A	VAILABLE ON THE JC	)B SITE PRIOR TO & D	URING THE	
<ul> <li>B. FIELD CONDITIONS, FIELD MEAS</li> <li>C. THE PLACING DRAWINGS MUST REINFORCEMENT.</li> </ul>	BE PREPARED BASED UPO	IN THE LATEST CONSTRUCTION					JKAWINGS.	
A. LAYOUT: THE PLACING DRAWIN REINFORCEMENT SUPPORTS, AS	GS MUST INCLUDE PLANS, APPLICABLE TO THIS PRO.	DETAILS, ELEVATIONS, GRAPH JECT.	HICS, SCHEDULES, MATERI	IAL LISTS, AND BENDING	G DETAILS OF REINFO			
DETAILING", AND CRSI "MANUAL O 2. PLACING DRAWINGS ARE DETAILED FABRICATION AND INSTALLATION. P	F STANDARD PRACTICE". / WORKING DRAWINGS TH	ALL REFERENCES SHALL BE THE HAT SHOW THE QUANTITY, SIZE	E LATEST EDITION AVAILAB E, DIMENSIONS, SPACING	BLE. , LOCATIONS, AND OT	HER INFORMATION F	,		
1. THE CONTRACTOR MUST SUBMIT PL CONTRACTOR ONLY SUBMITS SCHE CONCRETE REINFORCEMENT BARS	DULES (BAR LISTS, CUT AN AND ACCESSORIES SHALL	D BEND INFORMATION), THE CONFORM TO THE FOLLOW	SUBMITTAL WILL NOT BE R ING: ACI 315 "DETAILS AN	REVIEWED AND WILL BE	RETURNED REVISE A	ND RESUBMIT. DETAI	LING OF	
EINFORCING STEEL - 03 20 0	_						-	
3. SCALE: IF THE FOLLOWING LINE IS N				1"				
SUCH VIEWS SHALL APPLY WHET ENGINEER. 2. COLOR: THESE DRAWINGS ARE INTE				APPLICABILITY OF THES				
<ol> <li>DRAWING VIEWS LABELED AS TYPIC A. PARTIAL PLANS, ELEVATIONS, SE THE SAME OR SIMILAR TO THE TH</li> </ol>	CTIONS, DETAIL OR SCHEE							
DRAWING INTERPRETATION:								
2. ADDITIONAL INSPECTIONS/OBSERV								
<ul> <li>a. FRAMING INSPECTIONS SHA AND VENTS TO BE CONCEAL</li> <li>1. SPECIAL INSPECTIONS - REFER TO THE SPECTIONS - REFER THE SPECTIONS - REFER TO THE SPECTIONS</li></ul>	LED ARE COMPLETE AND	THE ROUGH ELECTRICAL, PLU	MBING, HEATING WIRES,	PIPES AND DUCTS ARE		S, CHIMNEYS		
INSTALLED, INCLUDING THE C. FRAME INSPECTION:	SUBFLOOR.	ARY EQUIPMENT ITEMS ARE IN						
<ul> <li>B. CONCRETE SLAB AND UNDER-FI</li> <li>a. CONCRETE SLAB AND UNDER</li> </ul>	LOOR INSPECTION: R-FLOOR INSPECTIONS SH		OR UNDER-FLOOR REINFO	ORCING STEEL AND BU		,		
	,				UNDATION SHALL BE	ON THE		
A. FOUNDATION INSPECTION: a. FOOTING AND FOUNDATION PLACE. FOR CONCRETE FOU ION EXCEPT INVIENT CONC					RED REINFORCING S	TEEL IS IN		

N/A = MINIMUM AIR CONTENT FOR FREEZE/THAW REQUIREMENTS IS NOT APPLICABLE (APPLIES TO F0 EXPOSURE CATEGORY ONLY)

NOTES:
A. CONCRETE MIXES FOR SLABS SHALL HAVE AN ULTIMATE DRY SHRINKAGE STRAIN LESS THAN 520 MILLIONTHS WHEN PLACED ON A DRY BASE MATERIALS. CONTRACTOR SHALL SUBMIT CERTIFICATION THAT THE PROPOSED MIX DESIGN COMPLIES.
B. "P(W)X" REFERS TO PERMEABILITY REQUIREMENTS OF THE CONCRETE. WHEN REFERENCING ACI318-11, CATEGORY SHOULD BE READ AS "YX".
C. SLUMP REQUIREMENTS SHALL BE DETERMINED BY THE CONTRACTOR AND CONCRETE PRODUCER BASED UPON HANDLING, PLACING, FINISHING AND CURING CRITERIA FOR CONCRETE CONSTRUCTION. IF THE CONTRACTOR IS NOT ABLE TO DETERMINE SLUMP REQUIREMENTS, THEN IT SHALL BE IN ACCORDANCE WITH ACI 301 (SLUMP = 4" ± 1" AT THE POINT OF PLACEMENT]. PUMPED CONCRETE LIKLEY WILL A REQUIRE A SLUMP GREATER THAN 4 AT THE POINT OF DELIVERY TO ACCOUNT FOR SLUMP LOSS DURING PUMPING.
D. UNLESS NOTED OTHERWISE, REMOVAL OF SHORING, BRACING, FORMWORK OR BACKFILLING OF STRUCTURES SHALL NOT OCCUR UNITL THE CONCRETE HAS OBTAINED A MINIMUM OF 75% OF 1°C. SHORING, BRACING, FORMWORK AND BACKFILLING OF STRUCTURES SHALL NOT OCCUR UNITL THE CONCRETE HAS OBTAINED A MINIMUM OF 75% OF 1°C. SHORING, BRACING, FORMWORK AND BACKFILLING OPERATIONS ARE MEANS AND METHOD OF CONSTRUCTION AND THUS THE CONTRACTOR IS SOLEY RESPONSIBLE FOR THESE OPERATIONS. QUESTIONS ON CAPACITY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADING CONDITIONS SHALL BE ADDRESSED IN WRITING TO THE ENGINEER. IN MANY CASES, THE CONTRACTOR WILL NEED TO CONSULT A SPECIALITY STRUCTURAL ENGINEER TO DESIGN

SHORING, BRACING, ETC., TO FACILLATE THEIR SELECTED MEANS AND METHODS OF CONSTRUCTION. E. MAXIMUM LIMITS APPLY TO SLABS THAT ARE TO RECEIVE A HARD TROWEL FINISH. THE TOLERANCE FOR AIR CONTENT IS ± 1%.

#### OW SLAB VAPOR RETARDER - SLAB-ON-GRADE (07 26 17)

- REFER TO SPECIFICATION 07 26 17, IF APPLICABLE.
   PRODUCT QUALITY STANDARD: ASTM E 1745, CLASS A, EXCEPT WATER VAPOR PERMEANCE PROPERTY SHALL NOT EXCEED 0.03 PERMS ACCORDING TO ASTM E 96, METHOD B.
   DESCRIPTION: PREFABRICATED, FLEXIBLE, LIGHTWEIGHT MATERIAL MANUFACTURED FROM RAW OR VIRGIN POLYETHYLENE OR POLYOLEFIN RESINS (POST-CONSUMER, RECYCLED RESINS)
- ARE NOT PERMITTED); D. THICKNESS: REFER TO PLAN AND/OR ARCHITECTUAL DRAWINGS/SPECIFICATIONS FOR THE MINIMUM THICKNESS.

### NCRETE FINISHING AND CURING

- 1. FINISHING: FINISHING OPERATIONS AND BULL FLOATING SHALL BE COMPLETED PRIOR TO THE ACCUMULATION OF BLEED WATER ON THE SURFACE. FINAL FINISHING SHOULD NOT BEGIN UNTIL THE BLEED WATER HAS EVAPORATED AND THE WATER SHEEN HAS DISAPPEARED FROM THE SURFACE. TROWELLING THE WET SURFACE WILL WEAKEN IT AND CAN RESULT IN SURFACE CRAZING AND DUSTING. REFER TO ARCHITECTURE FOR FINAL FINISHING REQUIREMENTS (STEEL TROWEL, BROOM FINISH, ETC.).
- 2. EXCESSIVE BLEED WATER REMOVAL: BLEEDING (FREE SURFACE WATER) OCCURS AS AGGREGATES SETILE IN THE PLACED CONCRETE, DISPLACING WATER TO THE SURFACE. IF ALLOWED TO REMAIN ON THE SURFACE, IT DILUTES THE CEMENT CONTENT, SIGNIFICANTLY REDUCING THE STRENGTH NEAR THE SURFACE. THE CONTRACTOR SHALL REMOVE BLEED WATER. ONE METHOD OF REMOVING BLEED WATER IS TO DRAG THE SURFACE WITH A GARDEN HOSE.
- CONTRACTION (CONTROL) JOINTS (SAW CUTS) IF REQUIRED, SHALL BE MADE AS SOON AS THE CONCRETE CAN SUPPORT THE WEIGHT OF WORKER AND THE EQUIPMENT.
   CURING: IMMEDIATELY AFTER FINISHING THE SLAB, THE SLAB MUST BE CURED FOR A MINIMUM OF 7 DAYS BY EITHER:

   A. APPLYING A WATER-BASED DISSIPATING RESIN TYPE CURING COMPOUND WHICH CHEMICALLY BREAKS DOWN AFTER APPROXIMATELY 4 WEEKS. MEMBRANE FORMING COMPOUND
- SHALL ADHERE TO ASTM C 309, TYPE O OR 1D, CLASS B. THE COMPOUND SHALL BE APPLIED IN TWO COATS, EACH AT RIGHT ANGLES TO THE OTHER TO ENSURE A TIGHTLY SEALED SURFACE. B. WET-CURED BY KEEPING THE SURFACE WET AFTER THE CONCRETE HAS SET AND FINISHING IS COMPLETE.

#### NCRETE CRACKS

 EVEN WITH PROPER DESIGN AND CONSTRUCTION ALL CONCRETE WILL CRACK. PLASTIC SHRINKAGE CRACKS CONTINUE TO OPEN AS THE SLAB AGES UP TO APPROXIMATELY ONE YEAR, AND REACH 50% OF THEIR FINAL SIZE IN APPROXIMATELY 30 DAYS. MANY PLASTIC SHRINKAGE CRACKS ARE VERY SMALL WHICH MAKE THEM BARELY NOTICEABLE AND INCONSEQUENTIAL TO THE STRUCTURAL PERFORMANCE OF THE CONCRETE. CRACKS WIDER THAN APPROXIMATELY 0.06" ARE LIKELY INDICATIVE OF CONCRETE THAT DID NOT ADHERE TO THE CONCRETE MIX REQUIREMENTS, PLACEMENT, FINISHING AND CURING REQUIREMENTS. IN ADDITION TO BEING VISIBLY OBJECTIONABLE, IF THESE CRACKS EXIST IN REGULAR CONSISTENCY, THEY MAY REDUCE THE STRUCTURAL PERFORMANCE OF THE CONCRETE AND REQUIRE STRUCTURAL REPAIR (FILL CRACKS WITH EPOXY PRODUCT) OR REPLACEMENT.
 PLASTIC SHRINKAGE CRACKS: OCCUR SOON AFTER THE CONCRETE IS PLACED AND WHILE IT IS STILL PLASTIC. IT IS CAUSED BY OVERLY RAPID DRYING OF THE SURFACE, USUALLY DUE TO HOT WEATHER, HIGH WIND, LOW HUMIDITY, OR A DELAY IN APPLYING THE CURING MEMBRANE.

#### EMPERING (ADDING WATER TO CONCRETE ON-SITE)

 WATER SHALL NOT BE ADDED TO THE MIX TRUCKS ON THE JOB SITE IN EXCESS OF THE VOLUME OF WATER THAT IS SPECIFICALLY INDICATED TO HAVE BEEN WITHHELD FROM THE READY MIX SUPPLIER.
 PRIOR TO ADDING WATER, THE CONTRACTOR SHALL CONFIRM THAT THE MIX IS NOT ALREADY WITHIN TOLERANCE ON SLUMP. WATER SHALL ONLY BE ADDED IF THE SLUMP IS BELOW TOLERANCE AND THE READY MIX SUPPLIER HAD INDICATED THE VOLUME OF WITHHELD (TRIM) WATER.

#### RECOMMENDED TESTING AND INSPECTION SLAB-ON-GROUND FOUNDATIONS - IRC ONLY

THE FOLLOWING INSPECTION AND MATERIAL TESTING ITEMS ARE RECOMMENDED FOR QUALITY ASSURANCE OF THE FOUNDATION, BUT ARE NOT A REQUIREMENT OF THE ADOPTED CODE - INTERNATIONAL RESIDENTIAL CODE.

#### SOILS

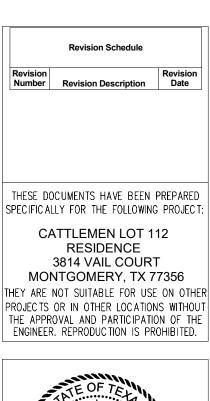
VERIFICATION AND INSPECTION	RECOMMENDED
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	YES
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	YES
PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS	YES
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL <b>[TEST AT A FREQUENCY OF</b> 2,000 SF/ LIFT MINIMUM]	YES
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THE SITE HAS BEEN PREPARED PROPERLY	YES
CONCRETE CONSTRUCTION	

### CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	RECOMMENDED
INSPECTION OF REINFORCING STEEL INCLUDING: SIZE, CLEAR COVER, SPACING, LAP SPLICES, ETC.	YES
VERIFYING USE OF REQUIRED MIX DESIGN	YES
AT THE TIME FRESH CONCRETE IS SAMPLED, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE <b>[TEST EVERY 100 YARDS OF CONCRETE PLACED]</b>	YES
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	YES
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	YES

#### IRC FINISHED FLOOR REQUIREMENTS

THE FINISHED FLOOR ELEVATION SHALL BE A MINIMUM OF 6" ABOVE FINAL GRADE, EXCEPT WHERE MASONRY VENEER IS PRESENT THIS CAN BE REDUCE TO A MINIMUM OF 4" ABOVE FINA FINAL GRADE.





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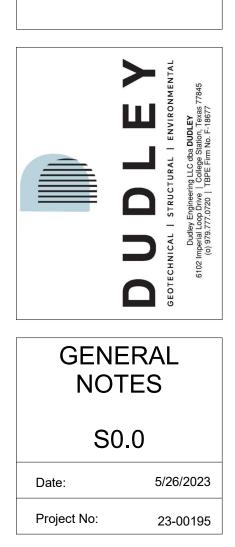
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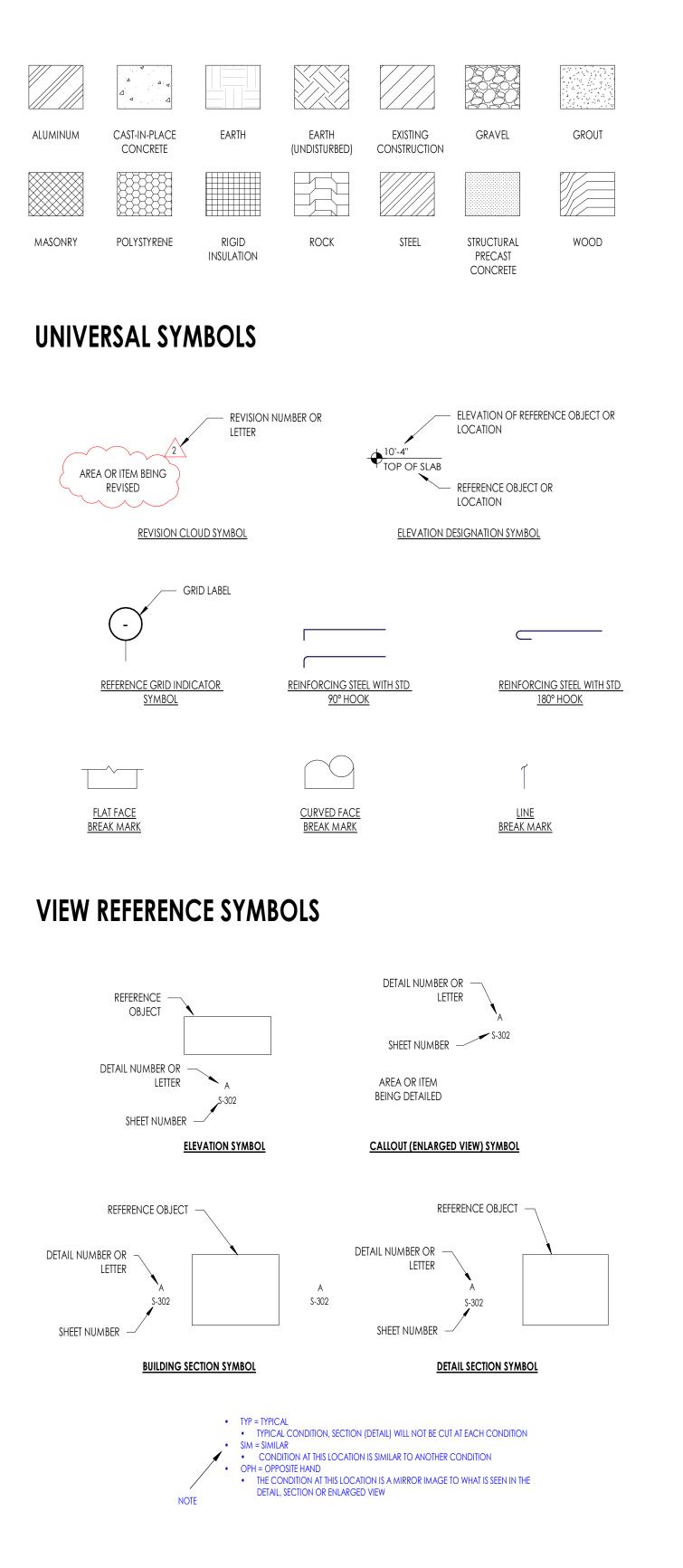
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## MATERIAL IDENTIFICATION SYMBOLS



# **ABBREVIATIONS**

ADDL

AESS

AFF

AHU

ALT

APPROX

ARCH BLDG BO

BOD BOT

BRDG

BRG

BTWN

CANT CFS CIP

CJ

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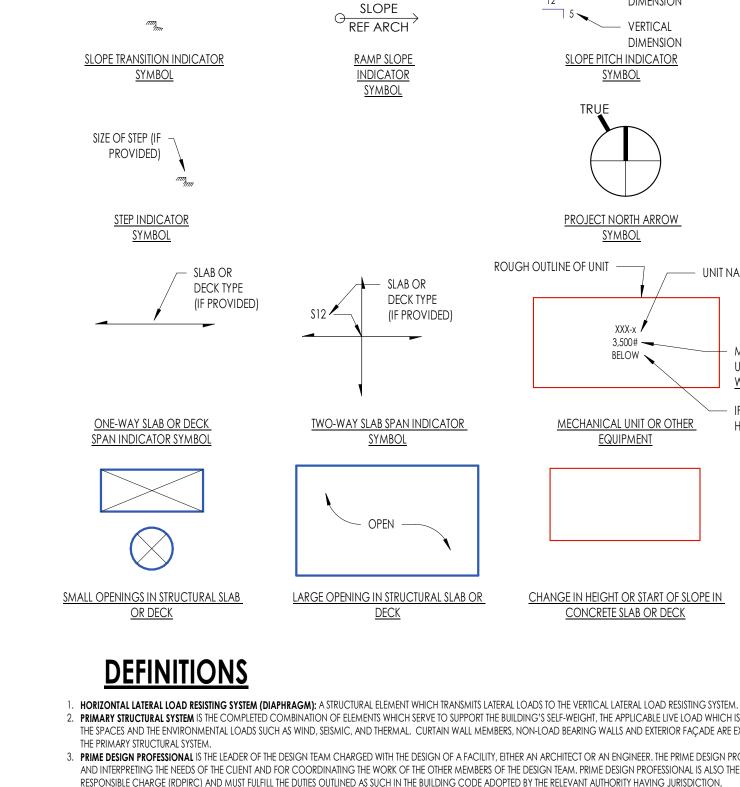
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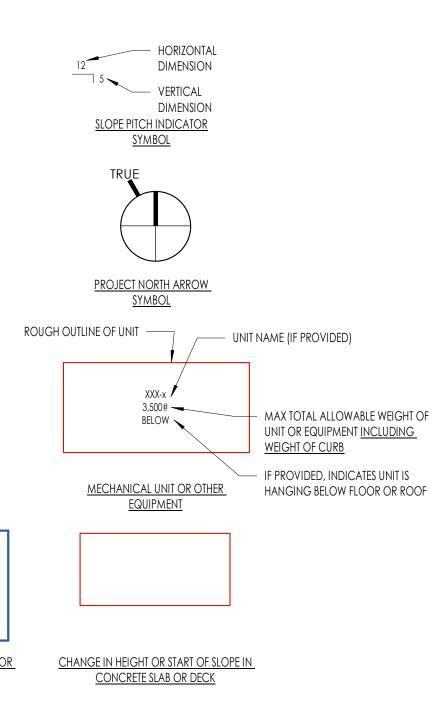
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LONG LEG VERTICALWWRWELDED WIRE REINFORCEMENTLONGITUDINALXSEXTRA STRONG (SCH. 40 PIPE)	KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUNDS	WF (W) WP	WIDE FLANGE WORK POINT
LONGITUDINAL XS EXTRA STRONG (SCH. 40 PIPE)	KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUNDS DEVELOPMENT LENGTH	WF (W) WP WS	WIDE FLANGE WORK POINT WATERSTOP
	KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUNDS DEVELOPMENT LENGTH LONG LEG BACK TO BACK LONG LEG HORIZONTAL	WF (W) WP WS WSP	WIDE FLANGE WORK POINT WATERSTOP WOOD STRUCTURAL PANEL WEIGHT
XXS DOUBLE EXTRA STRONG (SCH. 80 PIPE	KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUNDS DEVELOPMENT LENGTH LONG LEG BACK TO BACK LONG LEG HORIZONTAL LONG LEG VERTICAL	WF (W) WP WS WSP WT WWR	WIDE FLANGE WORK POINT WATERSTOP WOOD STRUCTURAL PANEL WEIGHT WELDED WIRE REINFORCEMENT
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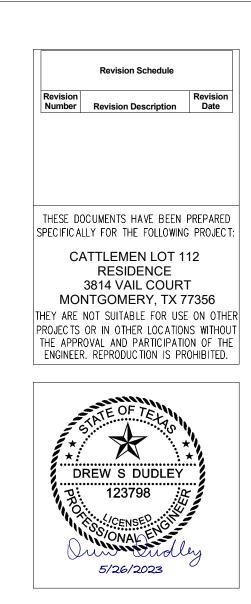
### PLAN SYMBOLS



- OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING. TYPICALLY, THIS IS THE ARCHITECT OR CIVIL ENGINEER-OF-RECORD.
- REGISTRATION LAWS OF THE STATE OR JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED.
- ELEVATOR SUPPORT RAILS AND BEAMS, RETAINING WALLS INDEPENDENT OF THE PRIMARY BUILDING, AND FLAGPOLE OR LIGHT POLE FOUNDATIONS.
- ELEMENTS OF A PROJECT NOT DESIGNED BY THE SER AS LIMITED IN THIS AGREEMENT.
- THE PRIMARY STRUCTURAL SYSTEM



2. PRIMARY STRUCTURAL SYSTEM IS THE COMPLETED COMBINATION OF ELEMENTS WHICH SERVE TO SUPPORT THE BUILDING'S SELF-WEIGHT, THE APPLICABLE LIVE LOAD WHICH IS BASED UPON THE OCCUPANCY AND USE OF THE SPACES AND THE ENVIRONMENTAL LOADS SUCH AS WIND, SEISMIC, AND THERMAL. CURTAIN WALL MEMBERS, NON-LOAD BEARING WALLS AND EXTERIOR FAÇADE ARE EXAMPLES OF ITEMS WHICH ARE NOT PART OF 3. PRIME DESIGN PROFESSIONAL IS THE LEADER OF THE DESIGN TEAM CHARGED WITH THE DESIGN OF A FACILITY, EITHER AN ARCHITECT OR AN ENGINEER. THE PRIME DESIGN PROFESSIONAL IS RESPONSIBLE FOR DETERMINING AND INTERPRETING THE NEEDS OF THE CLIENT AND FOR COORDINATING THE WORK OF THE OTHER MEMBERS OF THE DESIGN TEAM. PRIME DESIGN PROFESSIONAL IS ALSO THE REGISTERED DESIGN PROFESSIONAL IN 4. REGISTERED DESIGN PROFESSION IN RESPONSIBLE CHARGE (RDPIRC) OR PRIME DESIGN PROFESSIONAL WORKING DIRECTLY FOR THE REGISTERED DESIGN PROFESSIONAL WHO IS RESPONSIBLE FOR ENSURING THE PROJECT CONSTRUCTION DOCUMENTS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY 5. REGISTERED DESIGN PROFESSIONAL IS AN INDIVIDUAL WHO IS REGISTERED OR LICENSED TO PRACTICE THEIR RESPECTIVE DESIGN PROFESSION AS DEFINED BY THE STATUTORY REQUIREMENTS OF THE PROFESSIONAL 5. SECONDARY STRUCTURAL ELEMENTS ARE ELEMENTS THAT ARE STRUCTURALLY SIGNIFICANT FOR THE FUNCTION THEY SERVE BUT DO NOT CONTRIBUTE TO THE STRENGTH OR STABILITY OF THE PRIMARY STRUCTURE. EXAMPLES MAY INCLUDE BUT ARE NOT LIMITED TO: SUPPORT BEAMS ABOVE THE PRIMARY ROOF STRUCTURE WHICH CARRY A CHILLER OR OTHER EQUIPMENT, EXTERIOR NON-LOAD BEARING WALLS OR CLADDING SYSTEMS, STAIRS, 7. SPECIALTY STRUCTURAL ENGINEER (SSE) IS A LICENSED PROFESSIONAL ENGINEER, NOT THE STRUCTURAL ENGINEER OF RECORD, WHO PERFORMS ADDITIONAL STRUCTURAL ENGINEERING FUNCTIONS FOR SOME OF THE 8. STRUCTURAL ENGINEER OF RECORD (SER) IS THE ENGINEER LEGALLY ELIGIBLE TO SEAL THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THIS SEAL ACKNOWLEDGES THAT HE OR SHE HAS PERFORMED OR SUPERVISED THE ANALYSIS, DESIGN AND DOCUMENT PREPARATION FOR THE BUILDING STRUCTURE AND HAS KNOWLEDGE OF THE REQUIREMENTS FOR THE LOAD CARRYING STRUCTURAL SYSTEM. THE SER IS RESPONSIBLE FOR THE DESIGN OF 9. VERTICAL LATERAL LOAD RESISTING SYSTEM: ELEMENTS OF THE PRIMARY STRUCTURAL SYSTEM WHICH TRANSFER THE LATERAL LOADS INDUCED UPON THE STRUCTURE TO THE FOUNDATION AND ULTIMATELY INTO THE EARTH.



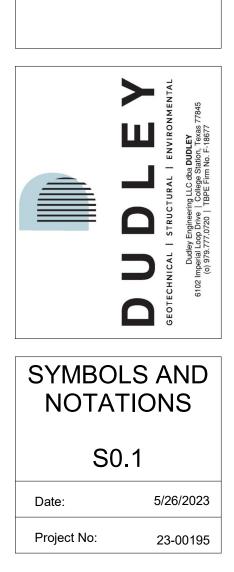
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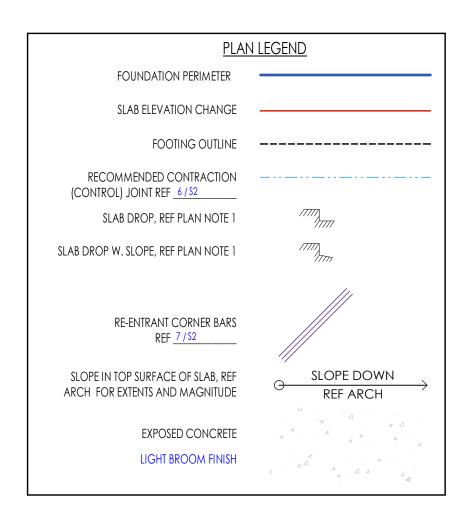
# **STRUCTURAL REFERENCE SHEETS**

FOUNDATION DETAILS: **S2** 

### PLAN NOTES

**S**3

- I. VERIFY ALL EDGE OF FOUNDATION DIMENSIONS WITH FINAL ARCHITECTURE FLOOR PLANS. 2. FORM DIMENSIONS: SLAB DROPS, SLOPES, ETC. ARE SHOWN AS AN AID TO THE CONTRACTOR ONLY.
- VERIFY EXACT DIMENSIONS AND LOCATIONS WITH ARCH./OWNER. 3. DIMENSIONS ARE TO CL OF GRADE BEAMS OR EDGE OF SLAB UNLESS NOTED OTHERWISE. 4. REFER TO MEP DRAWINGS FOR PENETRATIONS AND UNDERGROUND UTILITIES. ALL PENETRATIONS
- SHALL BE SHOWN IN REBAR PLACEMENT DRAWINGS. 5. CONTRACTION (CONTROL) JOINTS (GROOVED OR SAW-CUTS) ARE RECOMMENDED TO REDUCE
- CRACKS IN SLAB WHICH WILL BE VISIBLE, BUT ARE NOT REQUIRED FOR STRUCTURAL REQUIREMENTS. FOR THE RECOMMENDED MAXIMUM JOINT SPACING, REF DETAIL 6 / S2
- 6. FOR FLATWORK OR PAVEMENT ABUTTING THE BUILDING FOUNDATION, REF DETAIL 13/S2 7. CONCRETE IS ASSUMED TO RECEIVE A STEEL TROWEL FINISH UNLESS NOTED OTHERWISE. NOTIFY
- ENGINEER IF ARCHITECTURALLY EXPOSED CONCRETE (STAINED, POLISHED, ETC.) IS PLANNED FOR ADDITIONAL SHRINKAGE CRACKING MITIGATION METHODS 8. SUPERSTRUCTURE DESIGN: THIS FOUNDATION HAS BEEN DESIGNED BASED UPON AN ASSUMED FRAMING LAYOUT, DUDLEY SHALL BE PROVIDED THE FINAL FRAMING DESIGN/LAYOUT (WHEN COMPLETED) FOR REVIEW IN ORDER TO VERIFY THAT NO UNANTICIPATED LOADS WILL BE APPLIED TO THE FOUNDATION. IT IS ASSUMED THAT ANY WALL WITH A TOTAL FACTORED LOAD DEMAND IN EXCESS OF 500 PLF (POUNDS PER LINEAR FOOT) WILL BE POSITIONED ABOVE A GRADE BEAM OR
- TURNDOWN. ANY LOAD BEARING POSTS/COLUMN MUST BE LOCATED ABOVE A GRADE BEAM/TURN 9. ANCHOR BOLT / HOLDOWNS: REFERENCE FRAMING PLAN (BY OTHERS) FOR ALL ANCHOR BOLT AND
- HOLDOWN SIZES AND SPACING/LOCATION REQUIREMENTS. 10. FOR THE TYPICAL SUBGRADE PREPARATION DETAIL, REF 1/52



FOUNDATION & SLAB NOTES								
FOUNDATIO	N TYPE:	BRAB	BRAB TYPE III - STIFFENED NON-STRUCTURAL SLAB-ON-GROUND					
SUBGRADE N	MODULUS	175 PC	:					
SLAB THICKN	IESS:	4"	DESIGN CC	NCENTRATED	LOAD 3,	000 LBS OVER 2.5	x2.5' (900IN^2)AREA	
SLAB REINFC	RCEMENT:	#4@	#4 @ 16" OC EACH WAY - REF DETAIL 5 / S2					
DESIGN MET	HOD:	ACI 318, ACI 360						
VAPOR RETA	ARDER:	MINIMUM 10 MIL (UNLESS THICKER REQ'D BY ARCHITECT)						
BEAM ID <sup>1</sup>	DESCR	IPTION	WIDTH	DEPTH <sup>3</sup> TOP BOTTOM STIRRUPS				
B1	TYPICA	l BEAM	12"	30"	30" (2) - #6 (3) - #6 #3 @ 24" C			

NOTES:

TD

1. BEAMS ARE TYPE B1 UNO. 2. LOCATE THE FIRST STIRRUP A MAXIMUM OF 3" FROM FACE OF SUPPORT.

BEAM DEPTH INDICATED IN THE SCHEDULE IS A STRUCTURAL MINIMUM THAT THE BEAM REINFORCEMENT CAGE MAY BE BASED UPON. REFERENCE GEOTECHNICAL REPORT FOR MINIMUM GRADE BEAM EMBEDMENT BELOW ADJACENT FINAL GRADE OR FLATWORK/PAVEMENT. FOR VERTICAL MOISTURE BARRIERS THE DEPTH PROVIDED ARE AS FOLLOWS: A. (BEAM CAGE DEPTH / MINIMUM EMBEDMENT BELOW FINAL GRADE)

N/R = NOT REQUIRED 5. FOR ALLOWABLE SPLICE LOCATIONS, REF 4 /S2

TURNDOWN

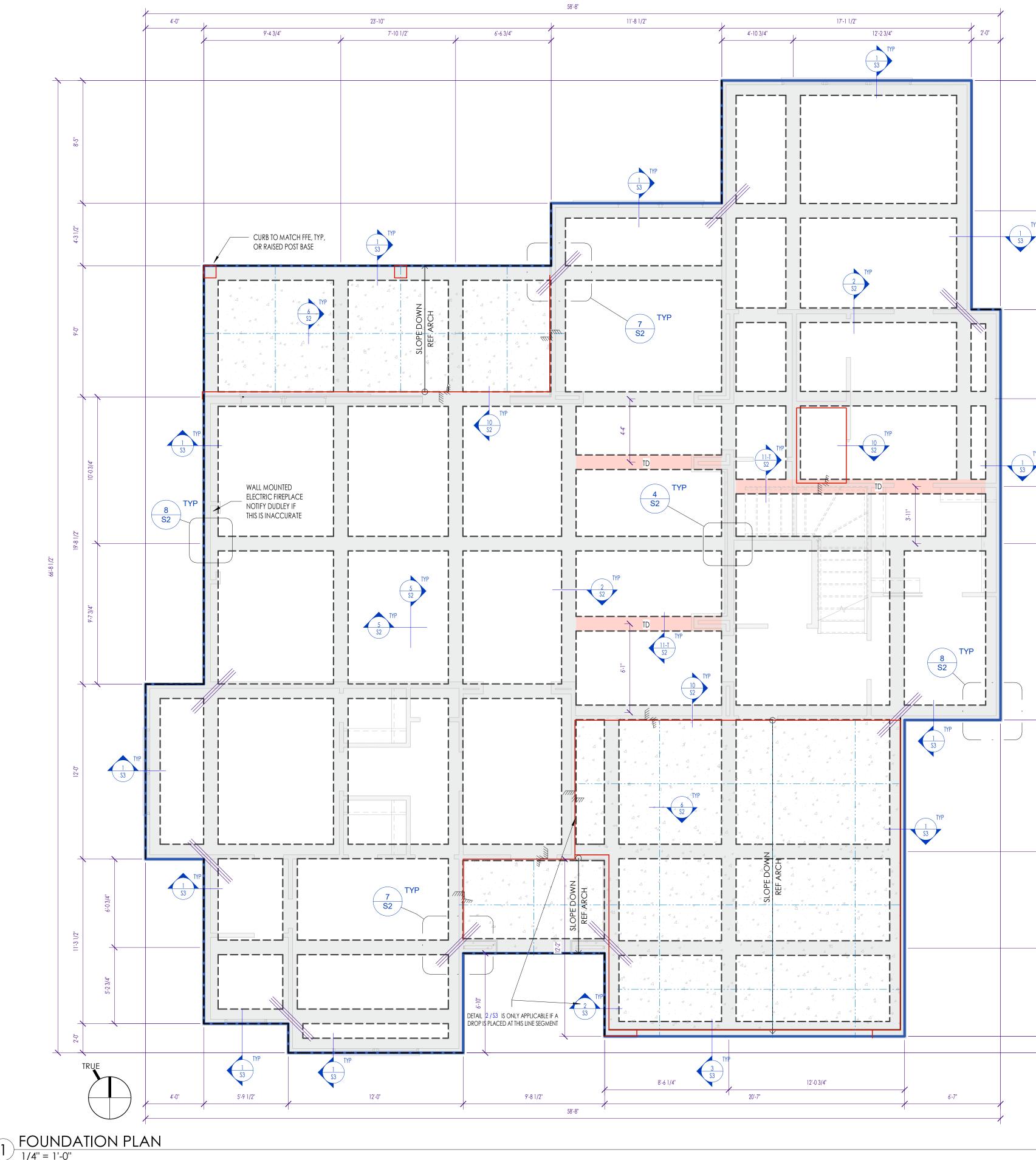
REFERENCE DRAWING(S): . SLAB DIMENSIONS SHOWN ARE BASED UPON THE FOLLWING CAD (COMPUTER-AIDED DESIGN) REFERENCE FILE(S), BY OTHERS.

FILE FORMAT: REVIT

 FILE NAME: CONROE LOT 112.0002 DATE OF FILE: MAY 17, 2023

• FILE AUTHOR: THETFORD ARCHITECTS

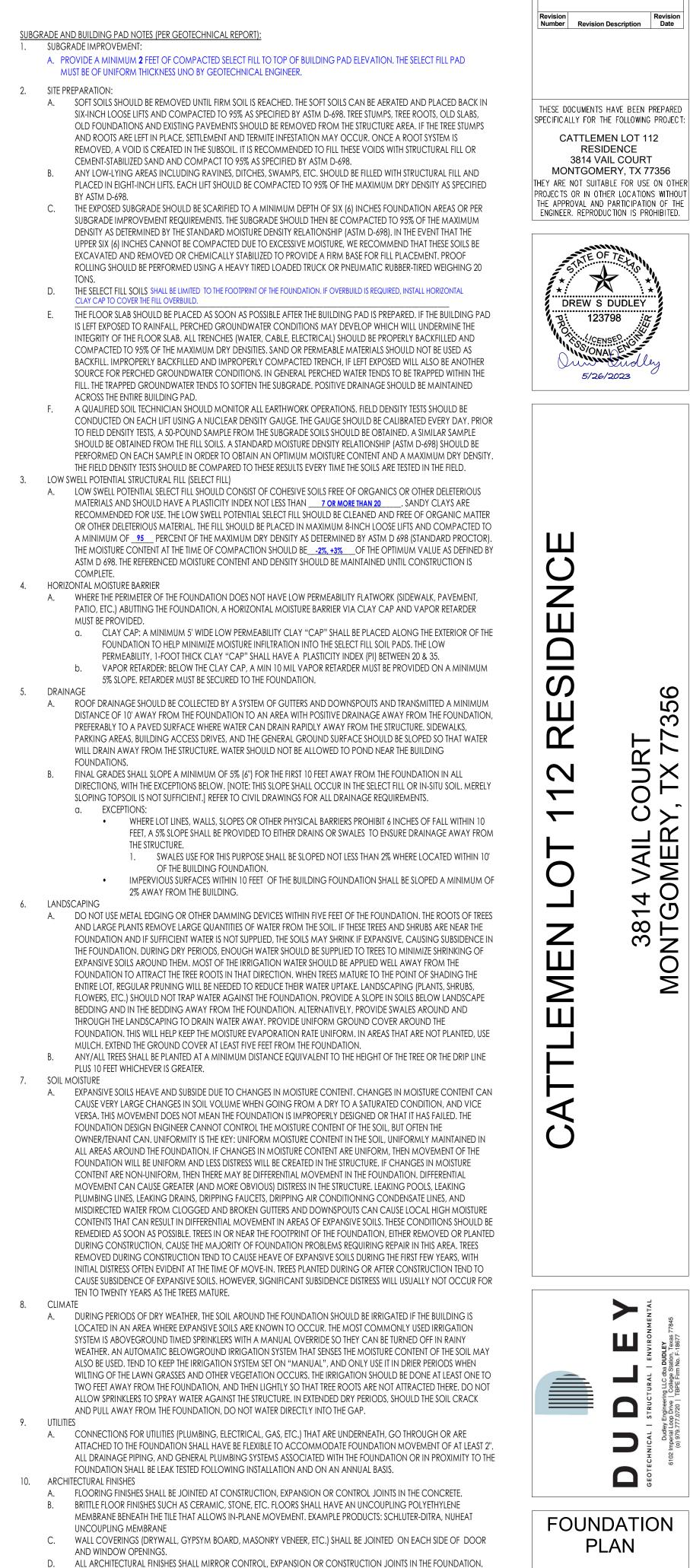
PTI PARAMETERS			
e <sub>m</sub> - CENTER	9.0'		SLAB
e <sub>m</sub> - EDGE	4.7'		ARE
Y <sub>m</sub> - CENTER	0.75"		PERIMETE
Y <sub>m</sub> - EDGE	1.25"		SHAPE FA
EFFECTIVE PLASTICITY INDEX	25		AREA AND P ARE PROVID
ALLOW. BEARING (PSF)	2250		CALCULATIN FOR THE SL
nin <u>Perimeter</u> Beam Embedment Below <u>Final</u> grade / flatwork	12"		NOT BE US
		-	





2EA (SF) 3010 TER (FT) 263 ACTOR 23 PERIMETER OF THE SLAB

DED FOR PURPOSES OF ING THE SHAPE FACTOR SLAB ONLY AND SHALL USED FOR ANY OTHER PURPOSE.



11. FUTURE STRUCTURES: A. THE OWNER/CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF FUTURE STRUCTURES SUCH AS SWIMMING POOLS, JACUZZI OR ANY OTHER STRUCTURE THAT HAS A FOUNDATION AND IS LOCATED WITHIN 30 FEET FROM THE PRIMARY BUILDING FOUNDATION IS PLANNED AS SUCH STRUCTURES CAN HAVE AN AFFECT ON THE PERFORMANCE OF THE PRIMARY BUILDING FOUNDATION.

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S1

5/26/2023

23-00195

Date:

Project No:

Revision Schedule

