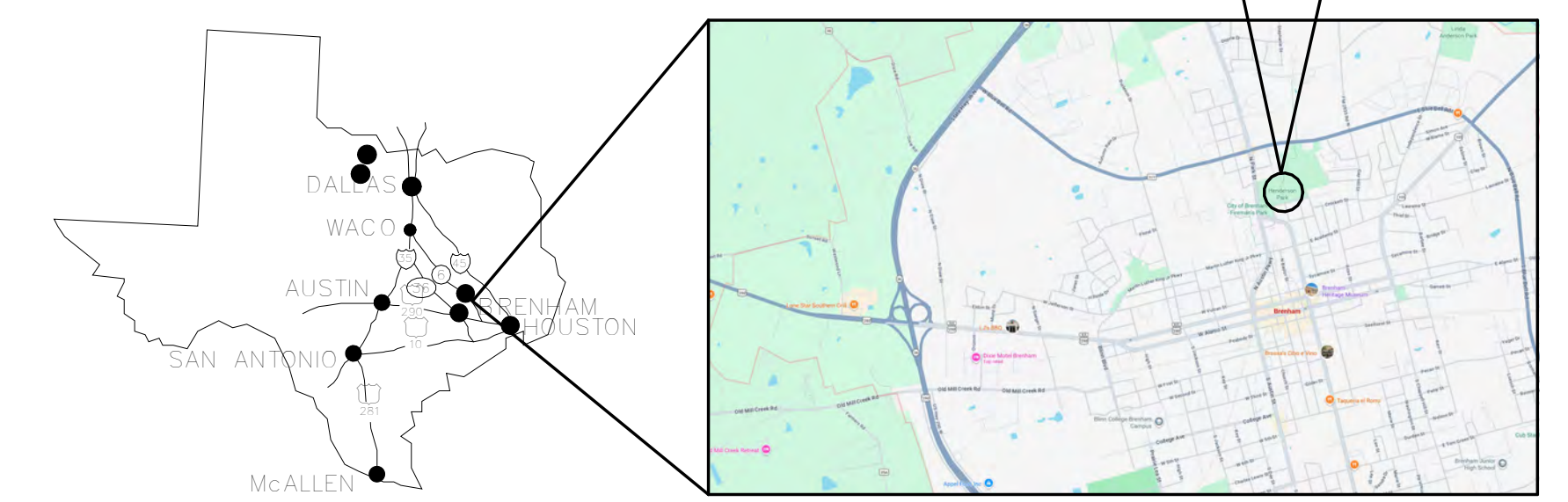


BBAX Architects

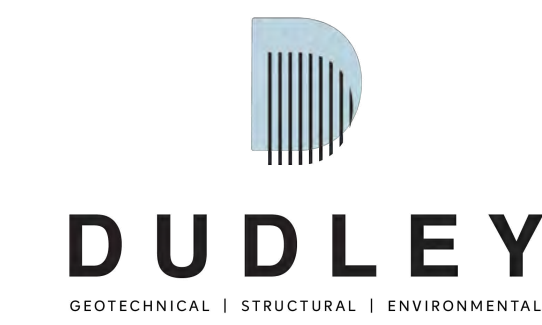
213 W. Main Street Brenham, TX 77833
Tel: (979) 836-0523
Email: mailbox@bba-x.com



VICINITY MAP



STRUCTURAL ENGINEER:



Drew Dudley, PE
6102 Imperial Loop Drive
College Station TX 77845
Tel: (979) 777-0720
www.dudleyeng.com

BRENHAM, TEXAS



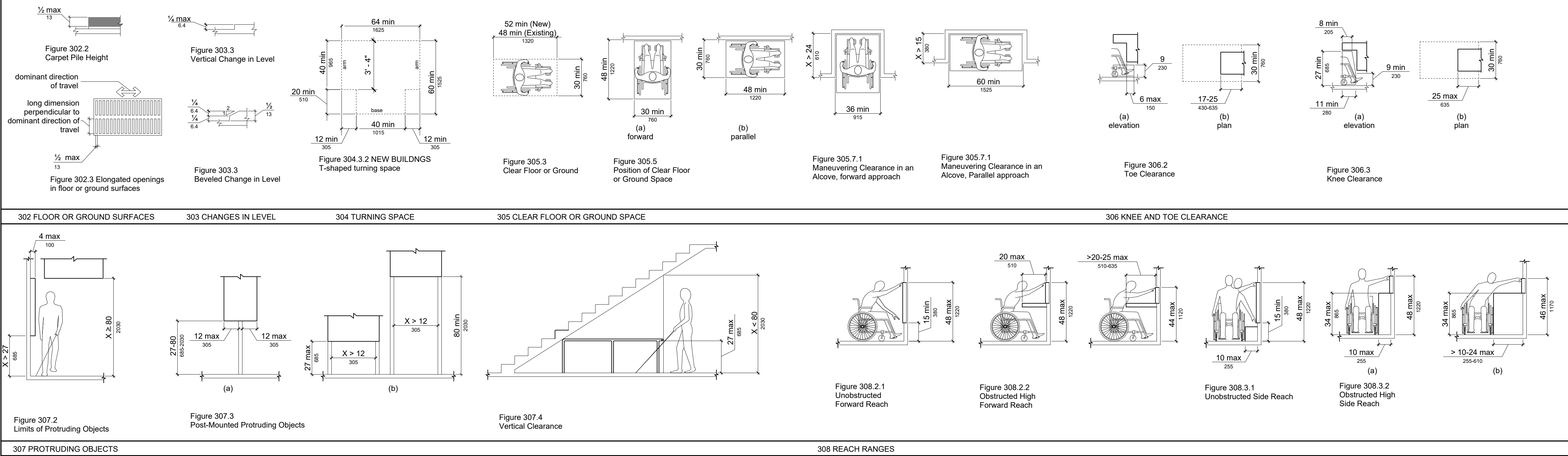
CONSTRUCTION DRAWINGS

FOR PERMIT AND BID

ABBREVIATIONS

[illegible]

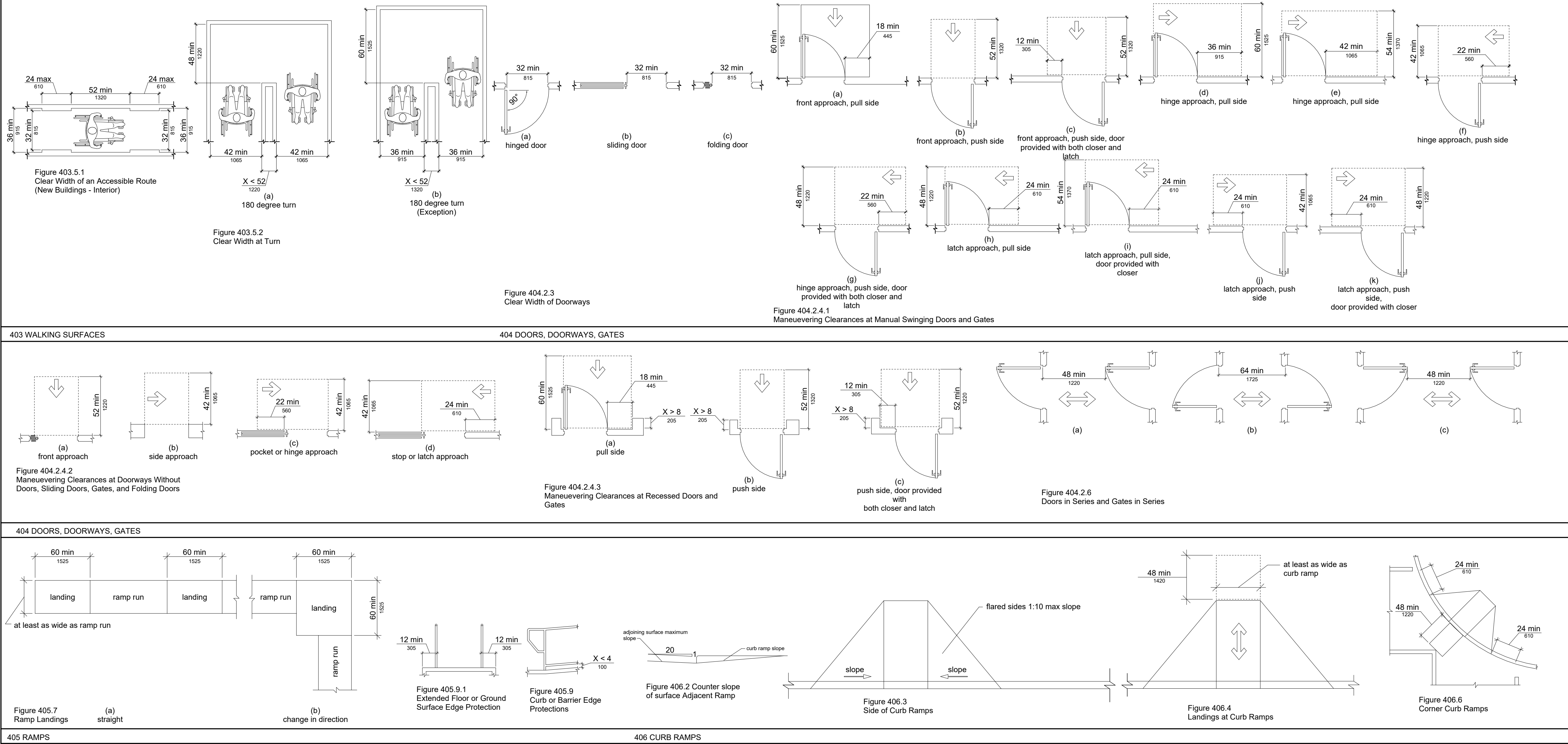
CHAPTER 3 BUILDING BLOCKS



LEGEND

Convention	Description
$\frac{36}{915}$	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
$\frac{6}{150}$	dimension for small measurements
$\frac{33-36}{840-915}$	dimension showing a range with minimum - maximum
min	minimum
max	maximum
$>$	greater than
$\geq$	greater than or equal to
$<$	less than
$\leq$	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

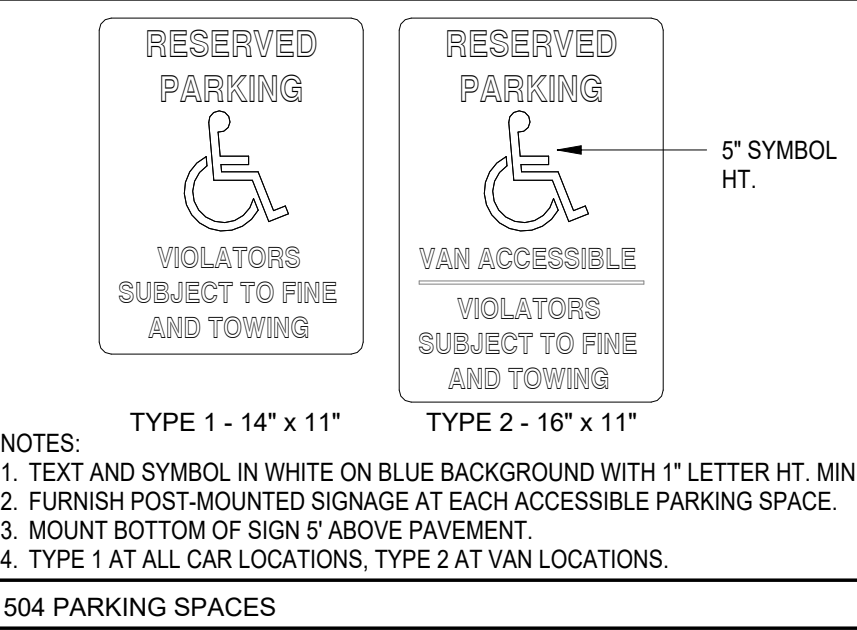
CHAPTER 4 ACCESSIBLE ROUTES



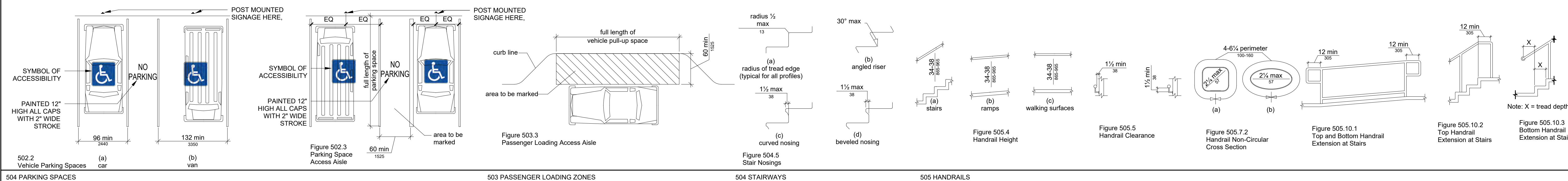
NOTES

- DRAWINGS ON THIS SHEET REPRESENT THE REQUIREMENTS SET BY THE TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES EFFECTIVE MARCH 15, 2012. THE CONTRACTOR IS TO COMPLY WITH THESE STANDARDS.
- THESE REQUIREMENTS ARE MINIMUMS SET FORTH BY THE TEXAS ACCESSIBILITY STANDARDS AND MAY NOT REFLECT THE ACTUAL SCOPE OF WORK. THE CONSTRUCTION DOCUMENTS SHALL GOVERN OVER THESE STANDARDS EXCEPT WHERE THE DOCUMENTS DO NOT MEET THE MINIMUM REQUIREMENTS SHOWN ON THIS SHEET. CONTRACTOR TO NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONDITIONS ARISE THAT DO NOT MEET THESE STANDARDS.

CH. 5 GENERAL SITE & BUILDING ELEMENTS



CHAPTER 5 GENERAL SITE AND BUILDING ELEMENTS



Project:	2019.10	Release Date:	07/16/2026	Date	
Revisions:	No.	Description			

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion

TEXAS

BRENNHAM,

Architect:
BBAX Architects
213 W Main St. Brenham, TX 77833
Tel: (797) 836-0523
Email: mailbox@bbax.com



07/16/2026

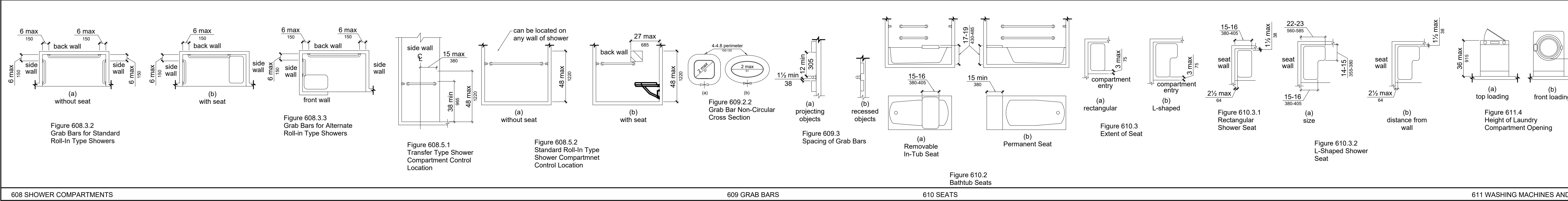
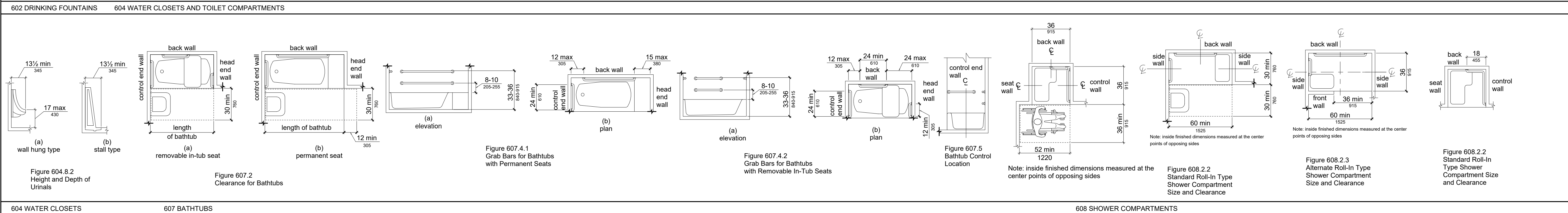
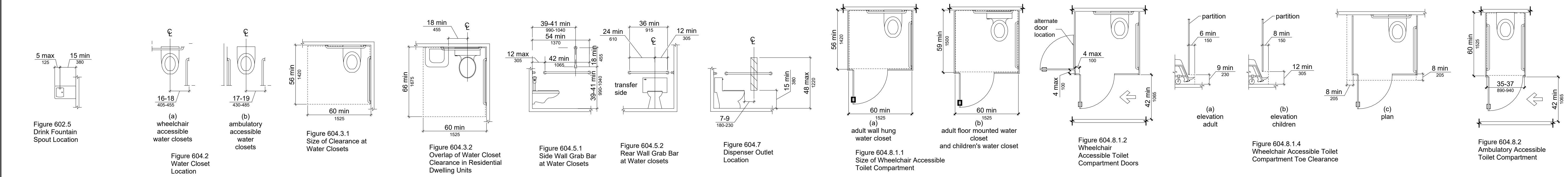
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TX Accessibility Standards

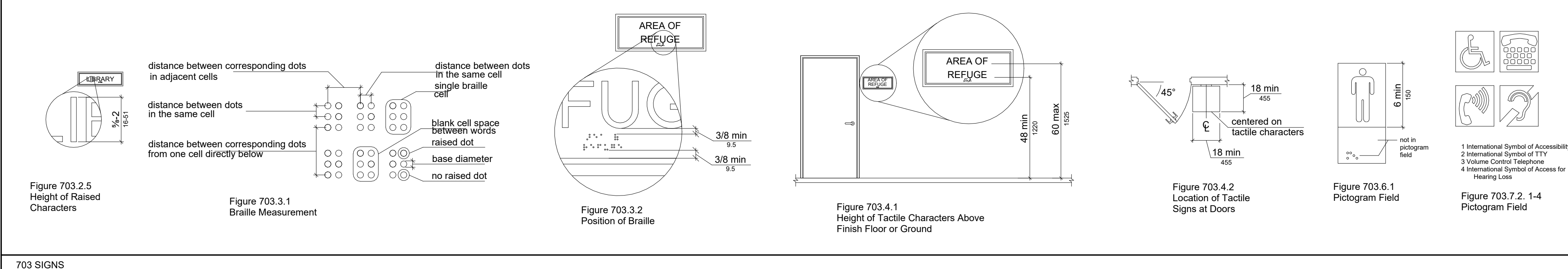
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2 OF 11

CHAPTER 6 PLUMBING ELEMENTS AND FACILITIES



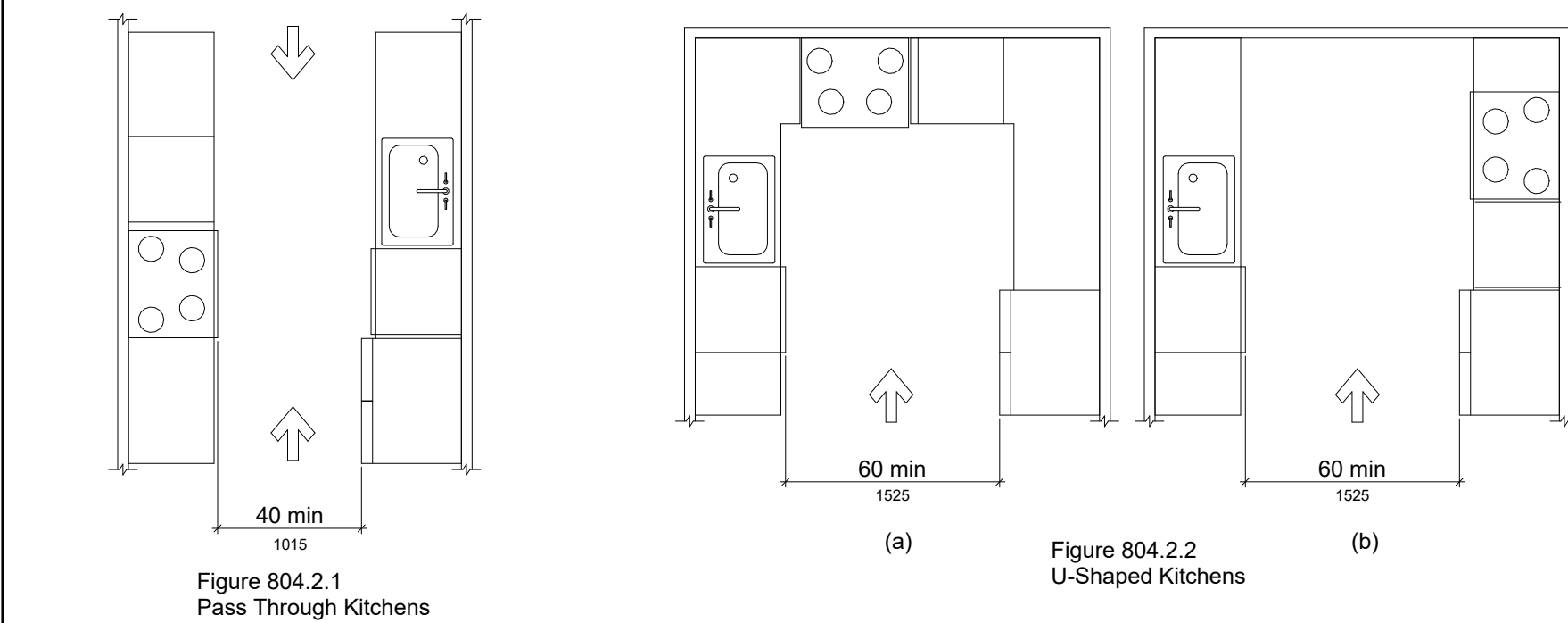
CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES



NOTES

1. DRAWINGS ON THIS SHEET REPRESENT THE REQUIREMENTS SET BY THE TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES EFFECTIVE MARCH 15, 2012. THE CONTRACTOR IS TO COMPLY WITH THESE STANDARDS.
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CHAPTER 8 SPECIAL ROOMS SPACES AND ELEMENTS



804 KITCHENS AND KITCHENETTES

Project:	2019.10
Release Date:	07/16/2026
Revisions:	No. Description
	Date

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion

TEXAS

BRENNHAM,

Architect:
BBAX Architects
213 W Main St Brenham, TX 77833
Tel: (979) 836-0523
Email: mailbox@bbax.com



07/16/2026

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TX Accessibility
Standards

A0.2

3 OF 11

1 BUILDING PLANNING & DESCRIPTION

Name of Project: City of Brenham, Henderson Park Basketball Court Pavilion
Address: 804 Old N Market, Brenham, TX 77833
Proposed Use: Participant Sport
Owner's Contact: Dane Rau, email: drau@cityofbrenham.org Phone: (979) 337-7407

DESIGNER OF RECORD/PROJECT ENGINEERS:

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: Darren C. Heine, AIA, BBA Architects, LP
ARCHITECTURAL FIRM NAME TELEPHONE #
Architect BBAX Architects Darren C. Heine, AIA (979) 836-0523
Structural Engineer Dudley Engineering Drew Dudley, PE (979) 690-6555

☒ NEW CONSTRUCTION ☐ SUBSTANTIAL IMPROVEMENT

Authorities Having Jurisdiction: City of Brenham CITY: Brenham, Tx COUNTY: Washington

Flood Plain: ☐ YES ☒ NO
Multi-Story: ☐ YES ☒ NO
Mezzanine: ☐ YES ☒ NO

TYPE OF CONSTRUCTION: II B

HEIGHT LIMITATION: 55' (NS) AREA LIMITATION: 9,500 SF (TABLE 506.2)

ALLOWABLE AREA: 9,500 SF (not considering available frontage increase)

GROSS BUILDING AREA: 7,833 SF

2 OCCUPANCY TYPE AND LOAD

(CHAPTER 2, 3 & TABLE 1004.1.2 IBC 2021)

OCCUPANCY CLASSIFICATION TYPES : [CIRCLE]

A-1	A-2	A-3	A-4	A-5	B	E
F-1	F-2	H-1	H-2	H-3	H-4	H-5
I-1	I-2	I-3	I-4	M	R-1	R-2
	R-3	R-4	S-1	S-2	U	

SINGLE OCCUPANCY ☒ YES ☐ NO

MIXED OCCUPANCY ☐ YES ☒ NO ☐ SEPARATED USE ☐ NON-SEPARATED USE
SEPARATION: HR.

(SECTION 508.3 OR 508.4 IBC 2021)

NON-SEPARATED OCCUPANCIES: N/A

BREAK DOWN AREAS AND OCCUPANT LOADS PER FLOOR

#	ROOMNAME	OCC. GRP.	FUNCTION OF SPACE (TABLE 1004.1.2 IBC 2021)	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	DESIGN OCCUPANTS
	PAVILION	A-3	PARTICIPANT SPORT	7,833 SF	50 SF/OCC	157
TOTAL:						157

3 MEANS OF EGRESS

(CHAPTER 10 IBC 2021)

Occupant Load Calculations (Table 1004.1.1)

Total Building Occupancy = 157 occupants

Egress Width (Sec 1005.1)

N/A - OPEN PAVILION

EGRESS WIDTH REQUIRED: N/A EGRESS WIDTH PROVIDED: N/A

PANIC HARDWARE ON EXIT DOORS? N/A (SECTION 1010.1.10 IBC 2021)

MINIMUM CLEAR WIDTHS ARE SHOWN ON: N/A (EACH STAIRWELL)

EGRESS WIDTHS ARE SHOWN ON: N/A

ACCESSIBLE AREAS OF REFUGE & 2-WAY COMMUNICATIONS ARE SHOWN ON: N/A

(SECTION 1009.1 - 1009.6.5 IBC 2021)

EXIT SIGNS / EGRESS ILLUMINATION SECTION 1008

REQUIRED AND SHOWN ON: N/A

EXTERIOR EMERGENCY LIGHTING PROVIDED: ☐ YES ☒ NO (SPACES REQUIRING TWO OR MORE EXITS)

EXIT TRAVEL DISTANCE TABLE 1017.2 IBC 2021

[N/A THIS PROJECT]

ELEVATORS [N/A THIS PROJECT]

NEW ☐ EXISTING ☐ ELEVATOR KEYBOX LOCATED IN LOBBY? (MUST BE WITHIN 20' OF THE CALL BUTTON) ☐ YES ☐ NO

4 FIRE PROTECTION SYSTEMS

(CHAPTER 9 IBC 2021 & IFC 2021)

[N/A THIS PROJECT]

DEFERRED SUBMITTALS? ☐ YES ☒ NO TYPE:

AUTOMATIC FIRE SPRINKLER SYSTEM

SYSTEM PROVIDED:

☐ NFPA 13 ☒ NONE REQUIRED***
☐ OTHER:

***ONE STORY STRUCTURE IS BELOW 12,000 SF WITH A 157 OCCUPANCY COUNT. THEREFORE NO AUTOMATIC FIRE SPRINKER SYSTEM IS REQUIRED.

FIRE DEPARTMENT ACCESS TO SPRINKLER CONTROLS:

☐ SPRINKLER RISER ROOM OR POST INDICATOR VALVE SHOWN ON: N/A
☐ FDC SHOWN ON: N/A FDC SHALL COMPLY WITH SECTION 912 IFC 2021

STANDPIPE SYSTEM & HOSE CONNECTIONS

(I.E. IN STAIRWAYS, STAGES, MALLS)

☐ PROVIDED AS NOTED ON: TYPE OF SYSTEM PROVIDED:
☒ NOT REQUIRED

PORTABLE FIRE EXTINGUISHERS (SECTION 906 IFC 2021)

☐ PROVIDED AS NOTED ON: NUMBER PROVIDED:

FIRE ALARM & DETECTION SYSTEMS (SECTION 907 IFC 2021)

☐ FIRE ALARM SYSTEM (DEFERRED SUBMITTAL) ☐ DEDICATED FUNCTION (SPRINKLER MONITORING, ELEVATOR RECALL, PRE-ACTION, EMERGENCY ALARM, SMOKE CONTROL)
☐ NOT REQUIRED PER SECTION 907
☐ EMERGENCY VOICE EVACUATION
☐ OTHER:

HVAC & AIR DISTRIBUTION SYSTEM CONTROLS (SECTION 907 IFC 2021)

☐ SMOKE DETECTORS PROVIDED TO SHUT DOWN UNITS OVER 2,000 CFM PROVIDED ON:
☐ NO HVAC UNITS OVER 2,000 CFM
☐ FIRE/SMOKE DAMPERS IN THE BUILDING SHOWN ON:
☐ OTHER:

SMOKE CONTROL SYSTEMS (SECTION 909 IFC 2021) (I.E. FOR HIGH RISE, ATRIUMS & STAIRWAY PRESSURIZATION)

☐ PROVIDED AS NOTED ON:
☒ NOT REQUIRED

SMOKE & HEAT VENTILATION (SECTION 910 & TABLE 910.3 IFC 2021)

☐ CALCULATIONS PROVIDED AS NOTED ON: N/A

5 FIRE RESISTANCE RATED CONSTRUCTION

(CHAPTERS 6, 7 & 10 IBC 2021)

DETAILS OF FIRE WALLS OR FIRE BARRIERS MEETING HORIZONTAL WALLS AND ROOF DECKS ARE SHOWN ON: N/A

[N/A THIS PROJECT]

FIRE-RESISTANCE RATING REQUIREMENTS (TABLES 601, 602 IBC 2021)

BUILDING ELEMENTS	HOURS REQUIRED	HOURS PROVIDED	UL OR IBC STANDARD USED & DESIGN DETAIL SHOWN ON
STRUCTURAL FRAME	0	0	
EXTERIOR BEARING WALLS	0	0	
EXTERIOR NON-BEARING WALLS	0	0	
INTERIOR BEARING WALLS	0	0	
FLOOR CONSTRUCTION	0	0	
ROOF CONSTRUCTION	0	0	
STAIRWELLS (SECTION 1009)	N/A	N/A	
ELEVATOR SHAFTS (SECTION 713)	N/A	N/A	
CORRIDORS (TABLE 1020.1)	N/A	N/A	
FIRE RATED DOORS (TABLE 716.5)	N/A	N/A	
PARTITION WALL (SECTION 708)	N/A	N/A	
FIRE BARRIER (SECTION 707)	N/A	N/A	
FIRE WALL (SECTION 706)	N/A	N/A	

DRAFTSTOPS: ☐ YES, SHOWN ON: ☐ NO, (SPRINKLED ATTIC) ☒ N/A (SECTION 718.4)

HAVE YOU CHECKED WIDTH OF OPENINGS IN FIRE RATED WALLS? ☐ YES ☐ NO ☒ N/A (TABLE 705.8, SECTION 706.8 & 707.6 IBC 2021)

FIRE SEPARATION DISTANCE (FEET) (SECTION 602 IBC 2021)	<or= to 10'	0	0	0
	NORTH	SOUTH	EAST	WEST

ROOF COVERING CLASSIFICATION PROVIDED: (TABLE 1505.1 IBC 2021)

6 WATER SUPPLY (FOR FIREFIGHTING)

(CHAPTER 5, APPENDIX B & C IFC 2021)

7,833 GROSS SIZE OF BUILDING IN SQUARE FEET (INCLUDE ALL OVERHANGS UNDER ROOF)

PUBLIC WATER SUPPLY WITH FIRE HYDRANTS (FOR PROPOSED & EXISTING FIRE HYDRANTS ONLY)

NAME OF MUNICIPAL UTILITY DISTRICT: CITY OF BRENHAM

NUMBER OF HYDRANTS WITHIN 400 FT (NON-SPRINKLERED) OR 600 FT (SPRINKLERED) OF BUILDING: 1 SHOWN ON: A1.1

REQUIRED GPM: DURATION: (TABLE B105.1 IFC 2021)

75% REDUCTION? ☐ YES ☐ NO (MUST MAINTAIN MINIMUM OF 1,500 GPM)

WATER SOURCE FOR RURAL AREAS WITHOUT FIRE HYDRANTS

☐ ***DRY HYDRANT ☐ UNDERGROUND STORAGE
☐ ABOVE GROUND STORAGE ☐ OTHER:

IN ACCORDANCE WITH FIRE FLOW CALCULATOR NFPA 1142

*** DRY HYDRANT DESIGN PLANS & CALCULATIONS TO BE SUBMITTED FOR REVIEW TO AHJ

7 FIRE LANE ACCESS

(CHAPTER 5, APPENDIX D IFC 2021)

FIRE LANE LAYOUT PLAN, WHICH SHALL INCLUDE THE SITE PLAN, THE FIRE LANE & FIRE HYDRANTS, IS SHOWN ON: A1.1 AERIAL ACCESS LAYOUT, FOR BUILDINGS OVER 30 FT, IS SHOWN ON: N/A

☐ PROVIDING A DRY STANDPIPE/WALL HYDRANT OR REMOTE FIRE HOSE CONNECTION TO COMPLY WITH FIRE LANE HOSE COVERAGE. SUBMIT PLANS TO FIRE PROTECTION FOR REVIEW.

9 PLUMBING SYSTEMS

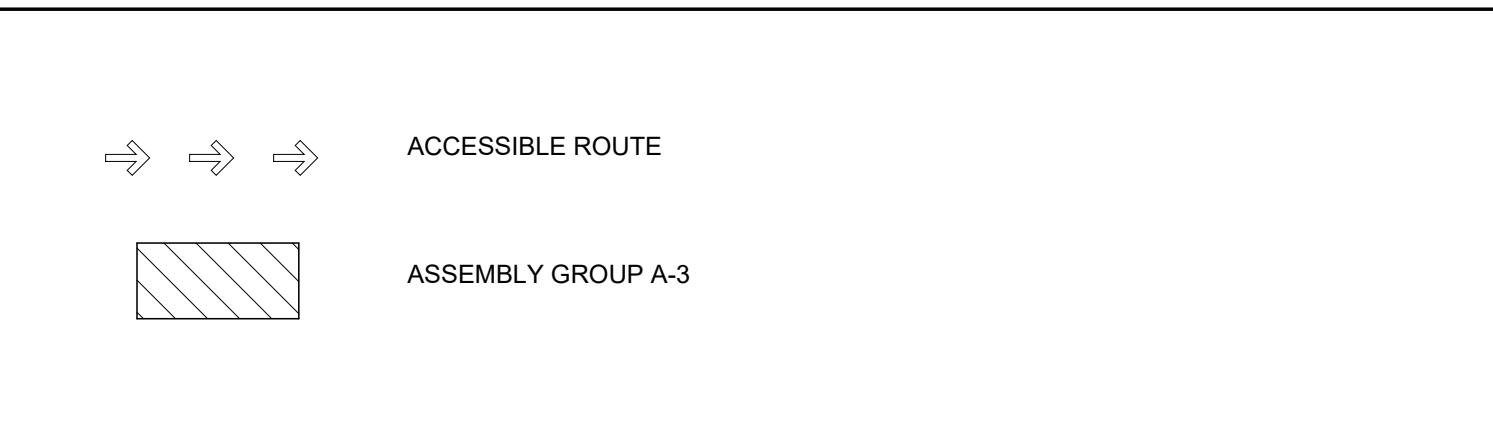
CHAPTER 29, IBC 2021

[N/A THIS PROJECT]

10 SPECIAL CONDITIONS

☐ YES ☒ NO ATRIUM(S) PER 404 IBC 2018?
☐ YES ☒ NO HIGH RISE BLDG. PER IBC 2018?
☐ YES ☒ NO ANY FUEL STORAGE TANK PER 5704 IFC 2018?
☐ YES ☒ NO SEPTIC SYSTEM? SUBMIT PLANS TO WASTEWATER FOR REVIEW.
☒ YES ☐ NO PUBLIC UTILITIES?
☐ YES ☒ NO HEALTH DEPT. APPROVAL? (SERVE/PREPARE FOOD FOR PUBLIC?)
☐ YES ☒ NO OTHER:

CODE PLAN LEGEND



11 COMMENTS & NOTES

12 BUILDING CODES USED

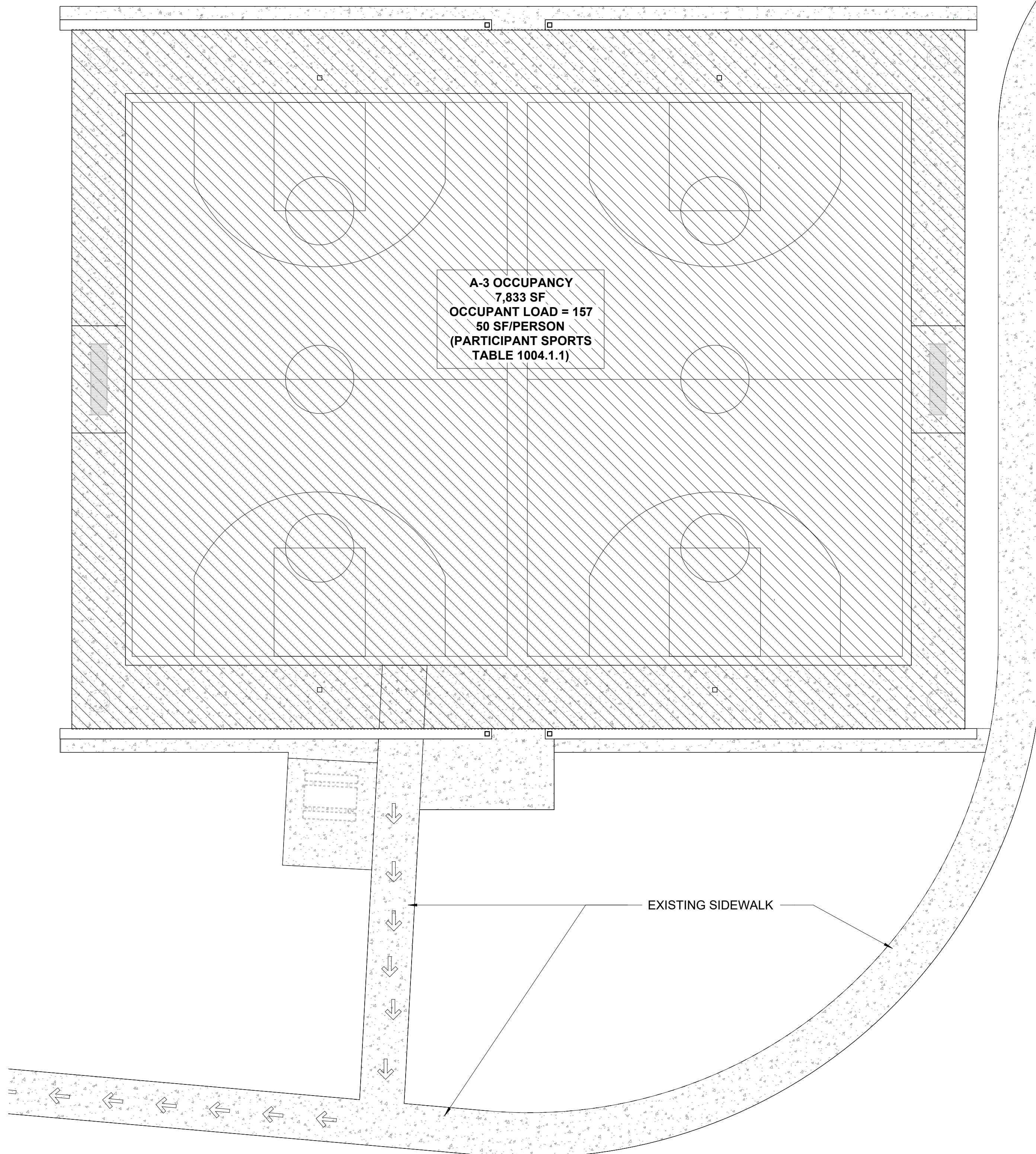
- 2021 International Building Code
- 2021 International Mechanical Code
- 2021 International Plumbing Code
- 2021 International Fire Code
- 2021 International Fuel Gas Code
- 2021 International Energy Conservation Code
- 2020 National Electrical Code

THIRD PARTY TESTING / INSPECTIONS

STRUCTURAL TESTING:

SEE SHEET S0.3 WHERE TABLES ARE LISTED IDENTIFYING CONTINUOUS OR PERIODIC INSPECTION REQUIREMENTS AND MATERIALS TESTING FOR:

1. DRIVEN DEEP FOUNDATION ELEMENTS
2. CONCRETE CONSTRUCTION
3. STEEL CONSTRUCTION
4. STRUCTURAL STEEL
5. SOILS



1 CODE PLAN
1/8" = 1'-0"

Project:	2019.10	Release Date:	07/16/2026	Date
Revisions:	No.	Description		

Consultant:	
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City of Brenham Henderson Park Basketball Court Pavilion	TEXAS BRENNHAM,
--	--------------------

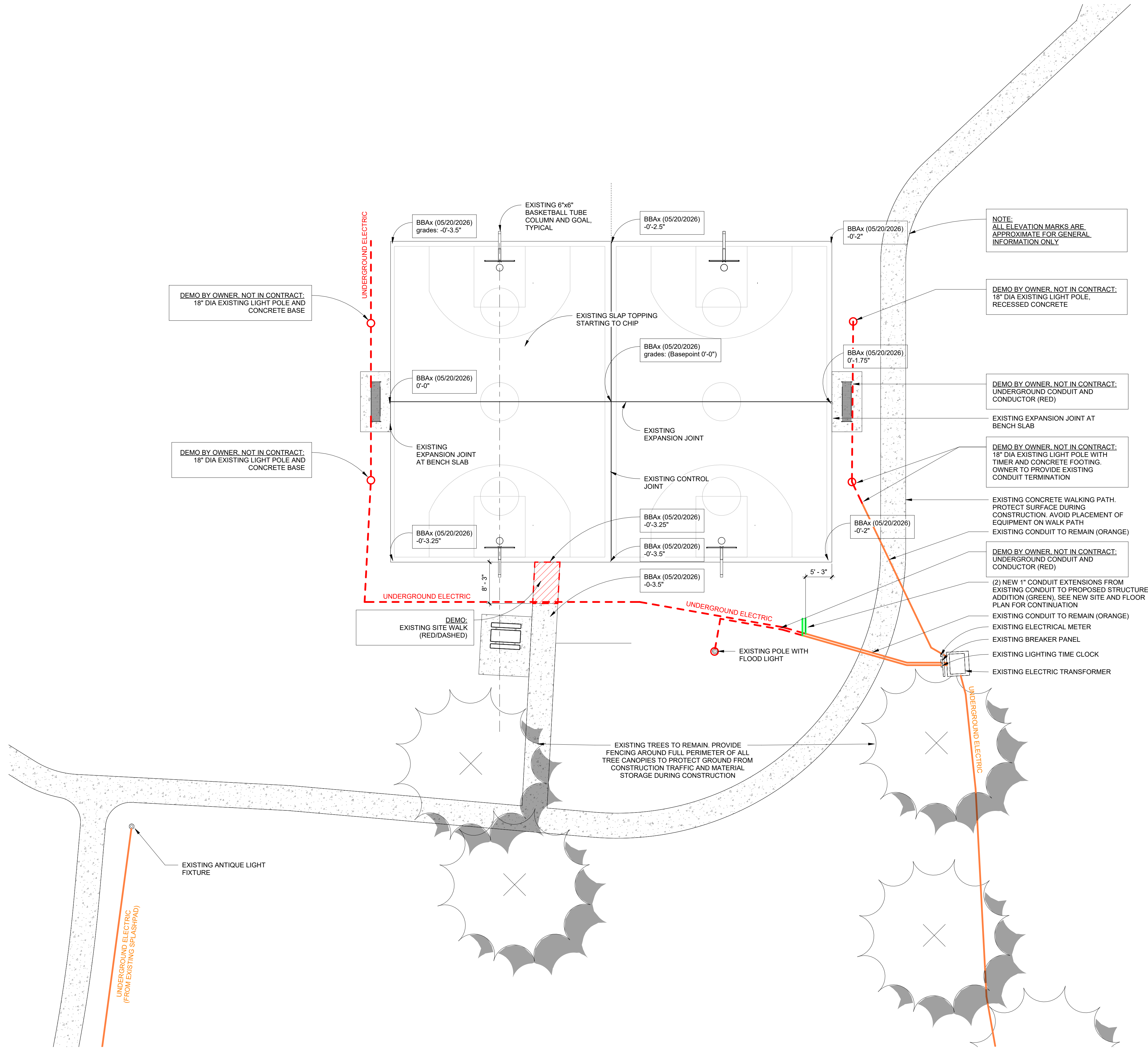
Architect:	BBAX Architects 213 W Main St, Brenham, TX 77833 Tel: (979) 836-0523 Email: mailbox@bbax.com
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Code Review

A0.3
4 OF 11



1 SITE PLAN - EXISTING
1" = 10'-0"

- NOTES:**
1. ALL EXISTING CONCRETE PAVING AT BASKETBALL COURT CONTROL JOINTS AND EXPANSION JOINTS TO BE SEALED AFTER CONSTRUCTION IS COMPLETE.
 2. EXISTING COURT TOP COAT SURFACE IS SPALLING IN VARIOUS LOCATIONS. CONTRACTOR IS TO TAKE PRECAUTION TO AVOID FURTHER DAMAGE. COURTS ARE TO BE RESURFACED BY CITY OF BRENHAM AFTER CONSTRUCTION IS COMPLETE.
 3. PROTECT EXISTING BASKETBALL GOALS DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIR / REPLACEMENT IF DAMAGED.
 4. MAINTAIN POSITIVE DRAINAGE AROUND CONSTRUCTION PERIMETER.

Project:	2019.10	
Release Date:	07/16/2026	
Revisions:	No.	Description
		Date

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion
BRENHAM, TEXAS

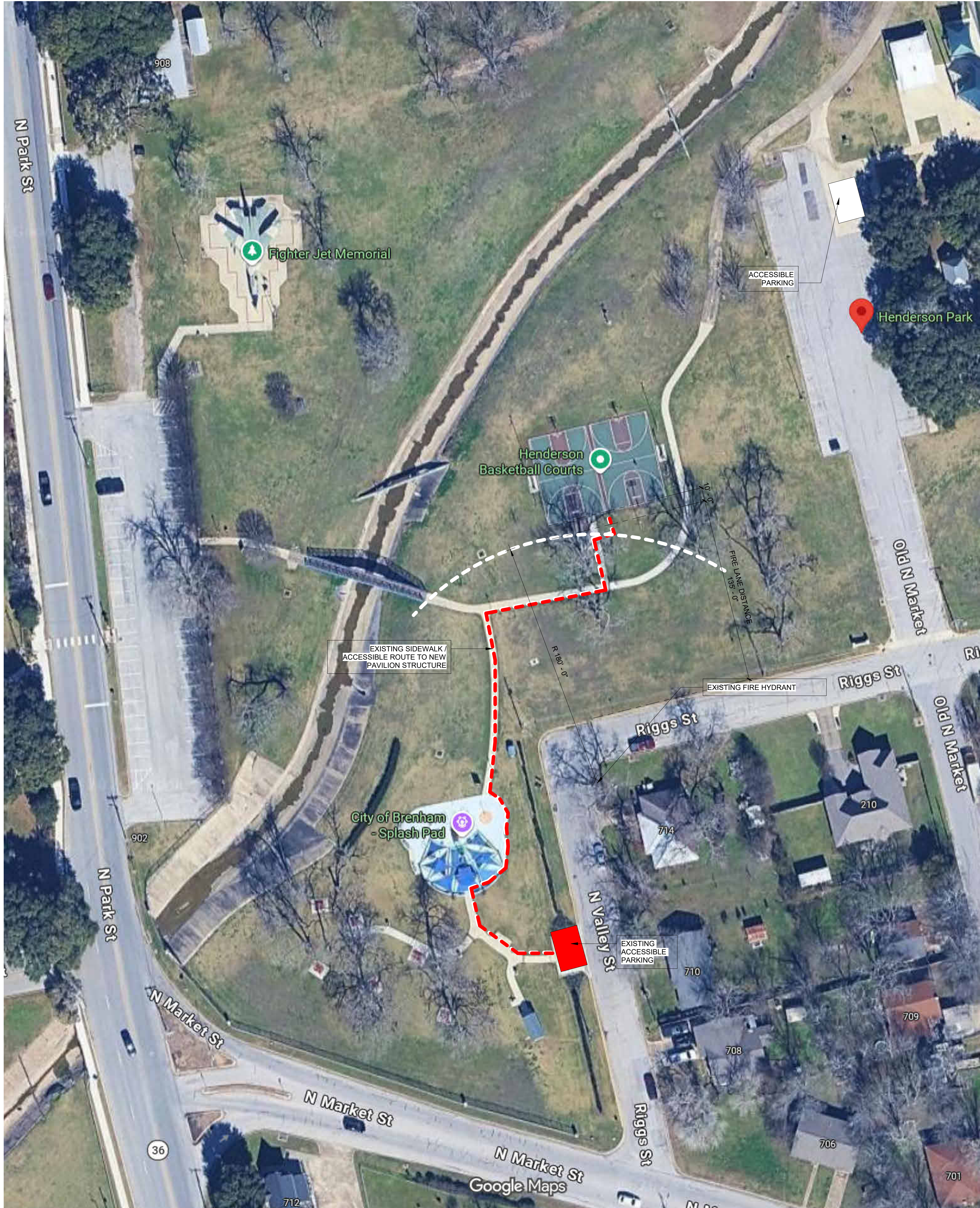
Architect:
BBAX Architects
213 W Main St Brenham, TX 77833
Tel: (979) 836-0523
Email: mailbox@bbax.com



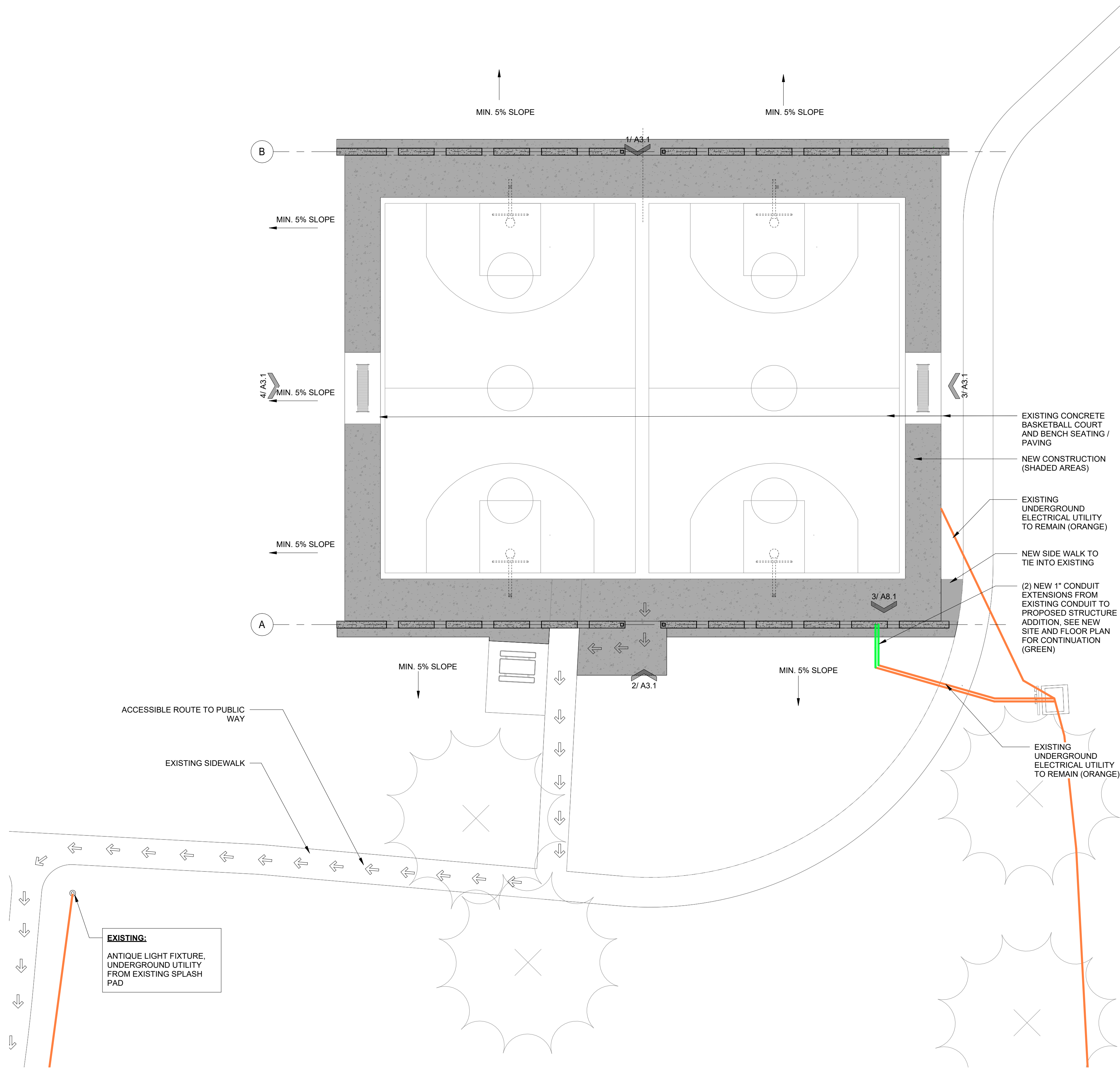
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Site - Existing /
Demo

A1.0
5 OF 11



2 EXISTING ACCESSIBLE PARKING AND ACCESSIBLE ROUTE
1" = 40'-0"



1 SITE PLAN - NEW CONSTRUCTION
1" = 10'-0"

Project:	2019.10		
Release Date:	07/16/2026		
Revisions:	No.	Description	Date

Consultant:

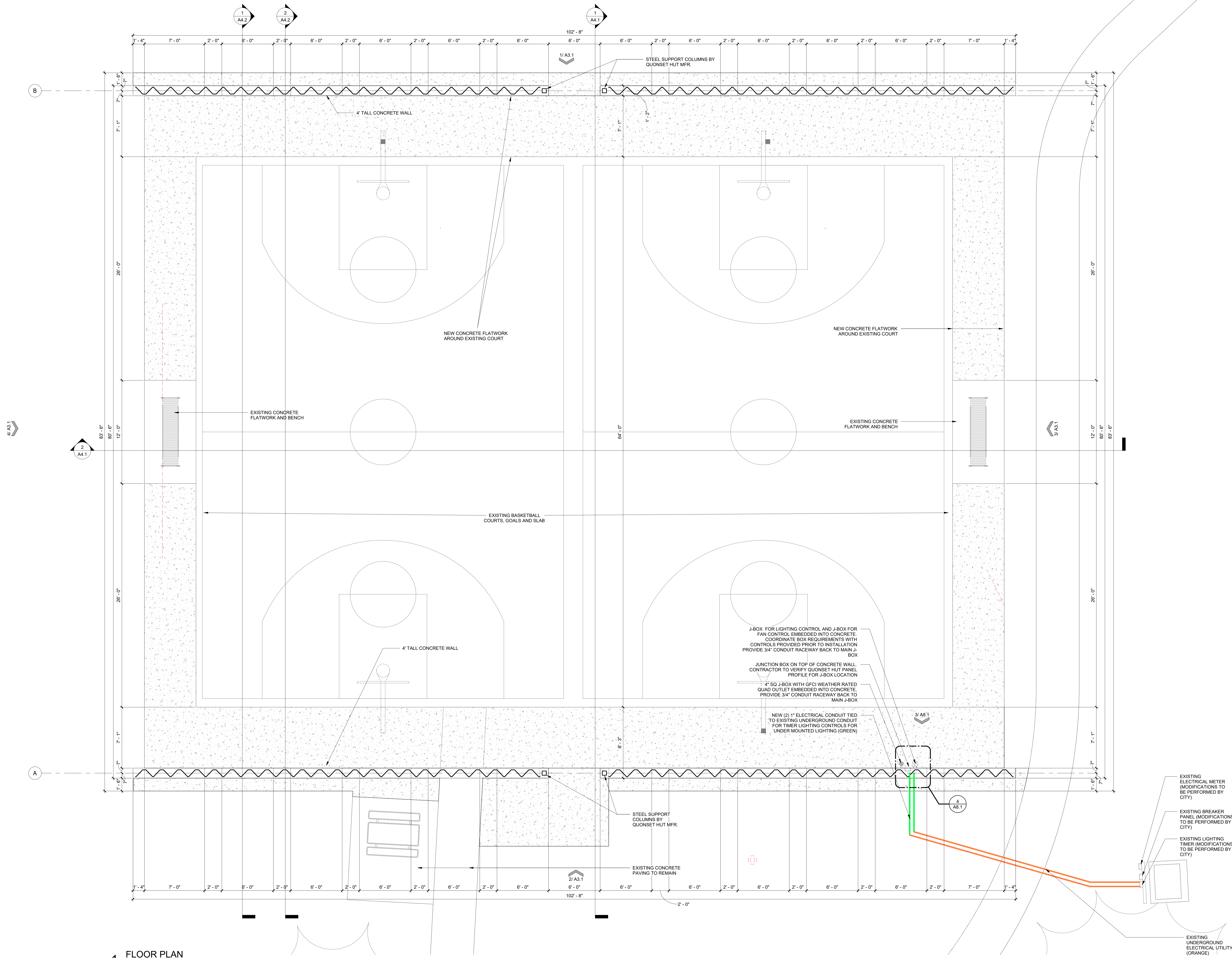
City of Brenham Henderson
Park Basketball Court
Pavilion
BRENHAM, TEXAS

Architect:
BBAX Architects
213 W Main St, Brenham, TX 77833
Tel: (979) 836-0523
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Site Plans
A1.1
6 OF 11



1 FLOOR PLAN
1/4" = 1'-0"

Project:	2019.10	
	Release Date:	07/16/2026
	Revisions:	
Consultant:	No.	Description
	Date	

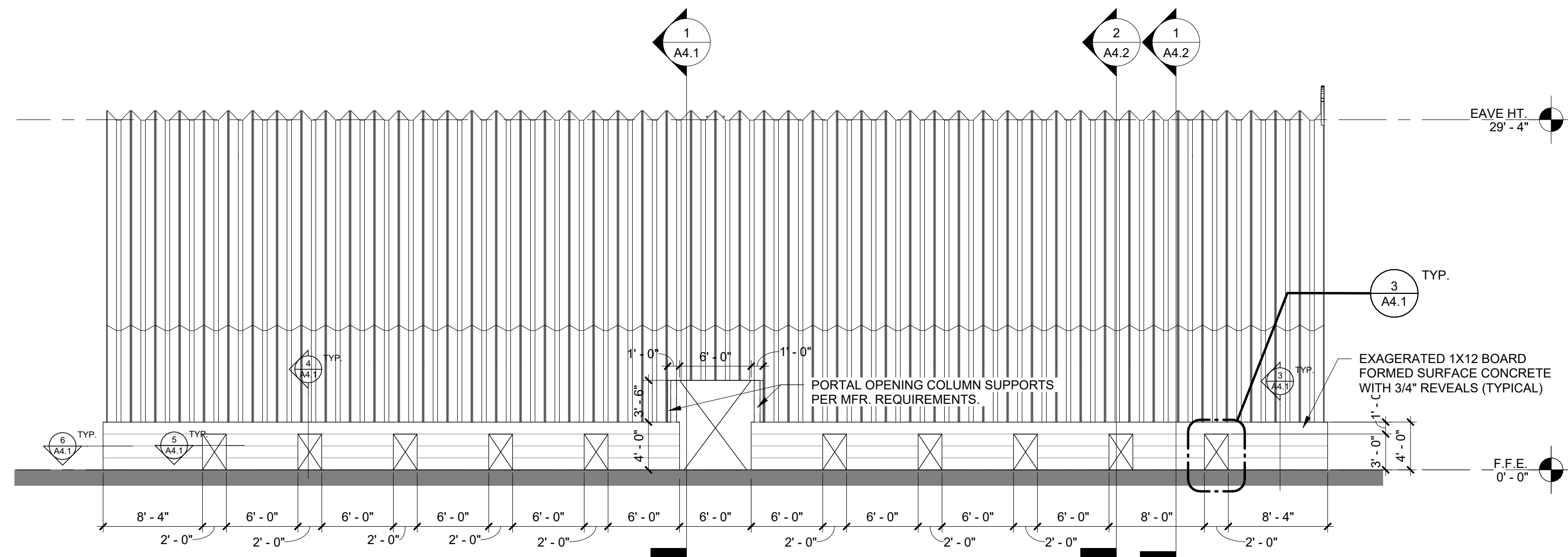
City of Brenham Henderson
Park Basketball Court
Pavilion

BRENNHAM, TEXAS

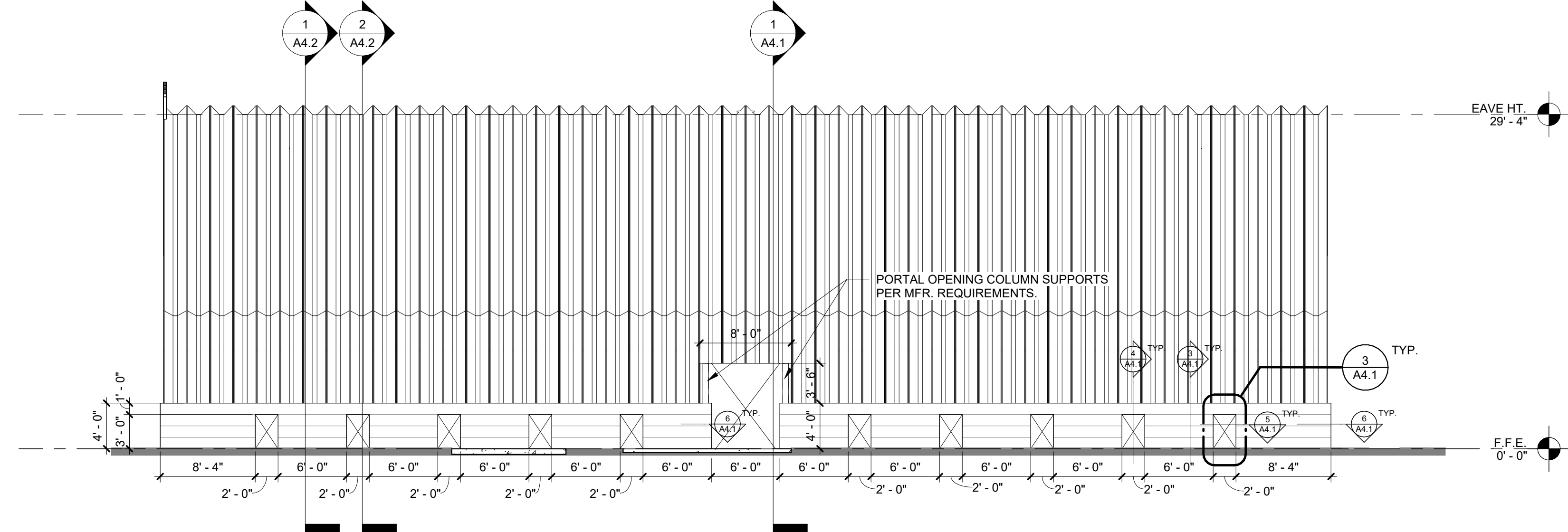
Architect:
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Tel: (979) 836-0523
Email: mailbox@bbax.com



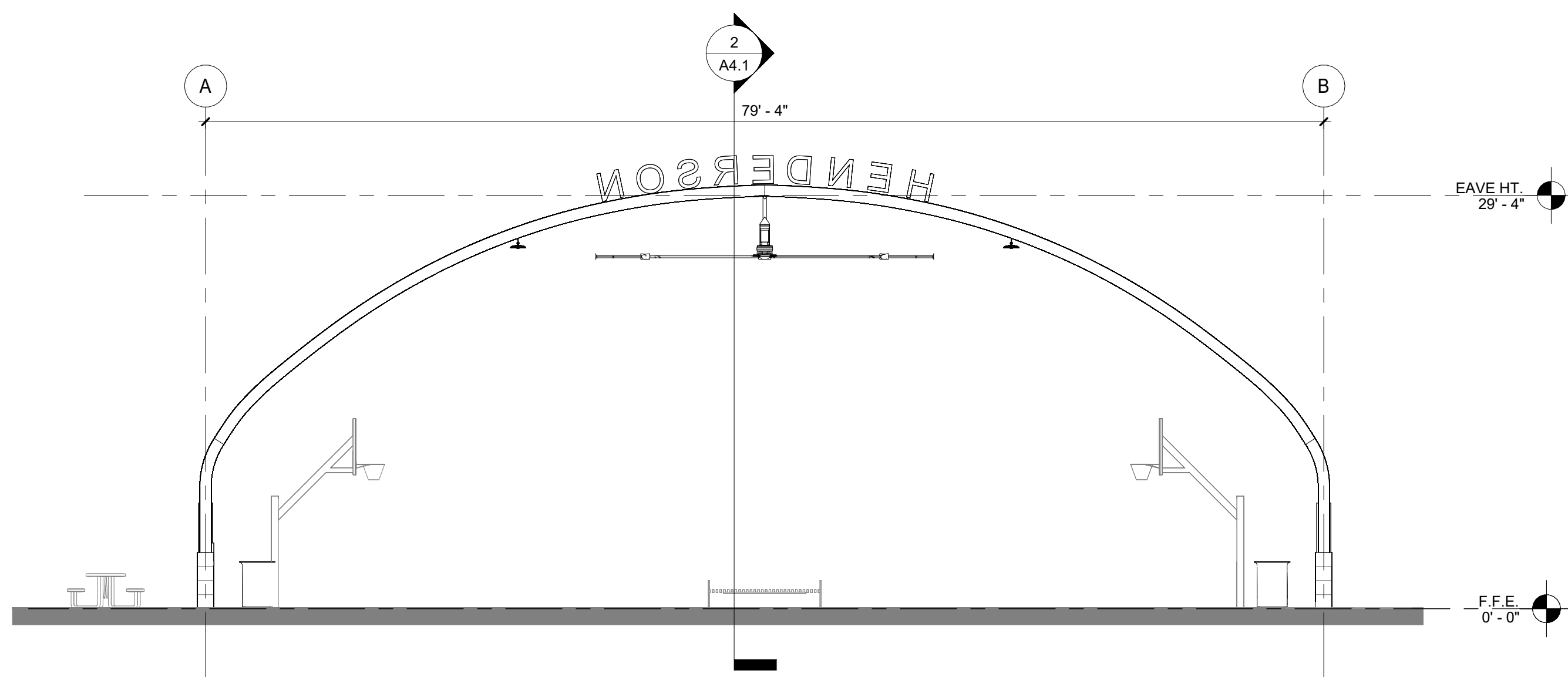
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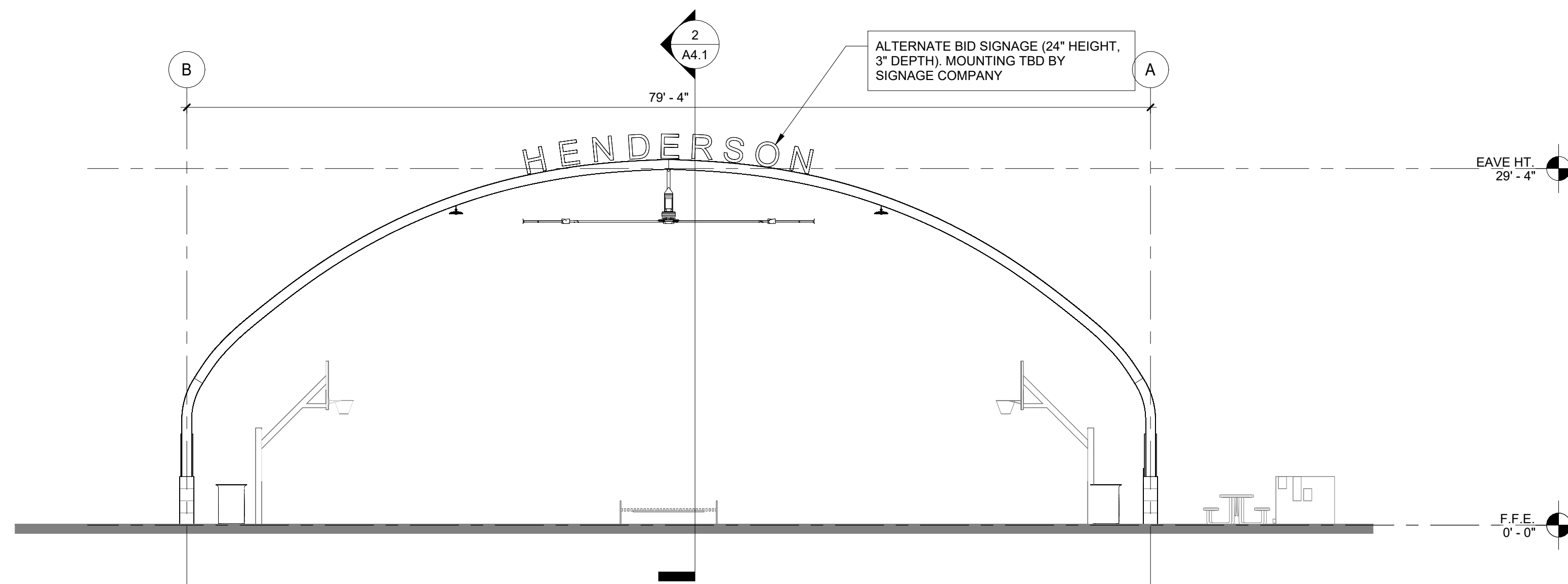
1 NORTH ELEVATION
1/8" = 1'-0"



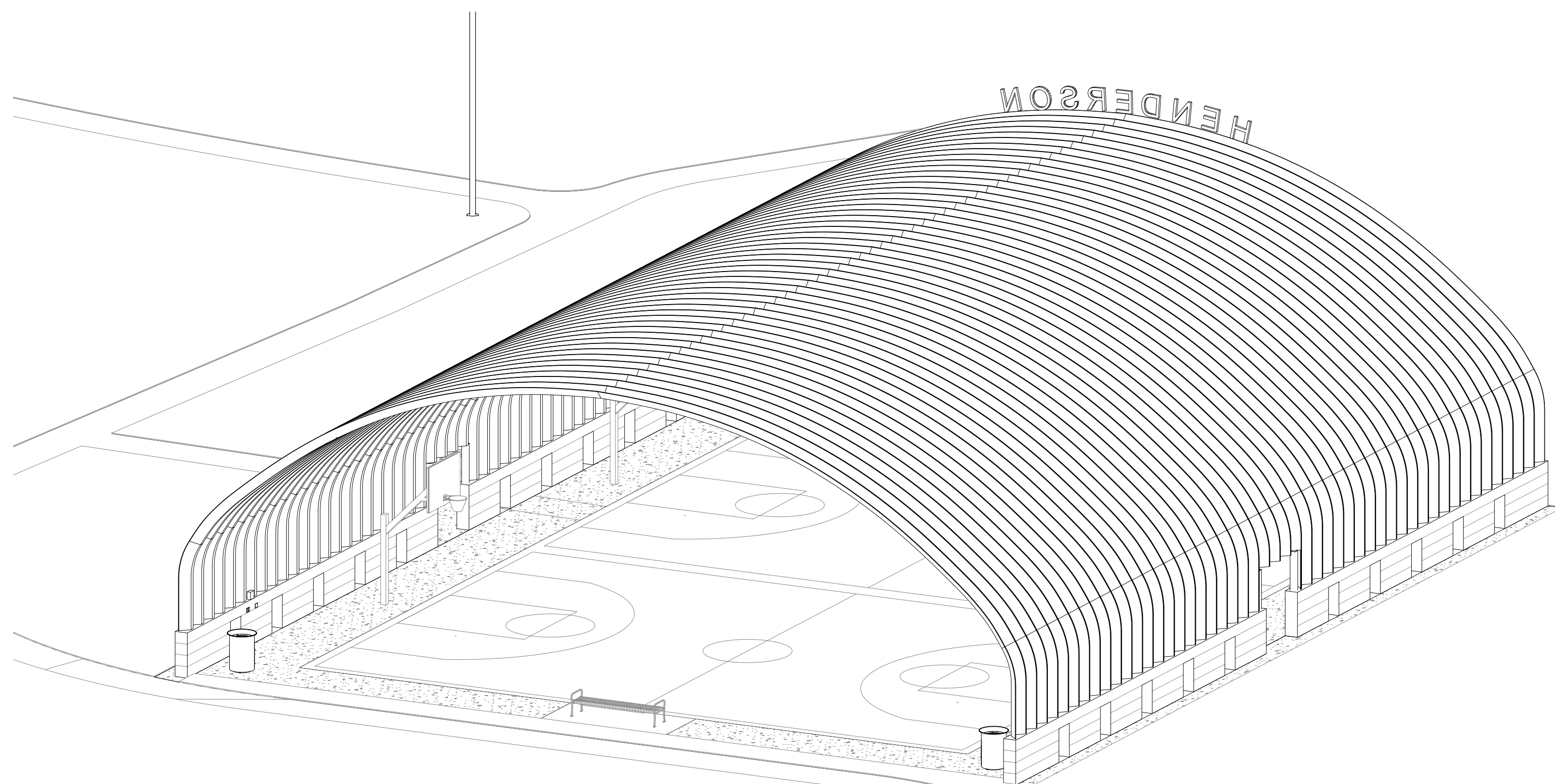
2 SOUTH ELEVATION
1/8" = 1'-0"



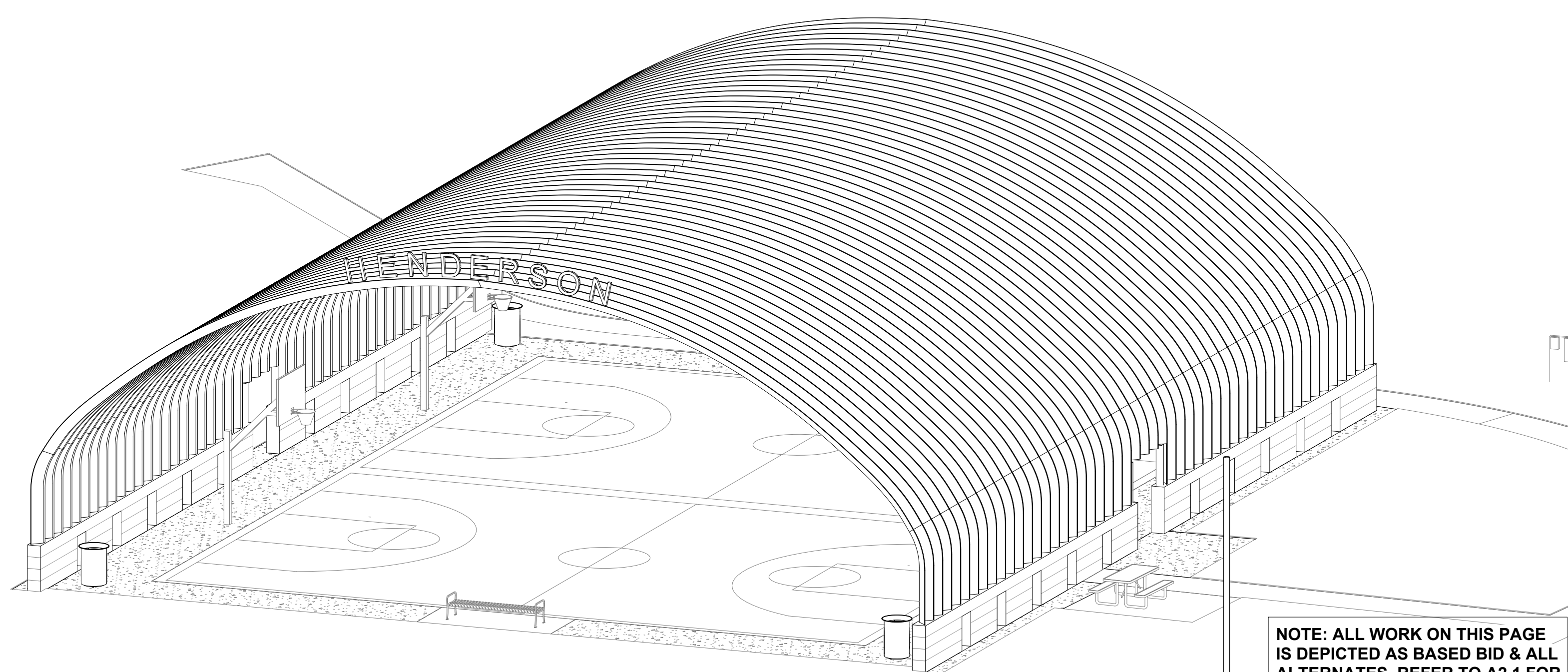
3 EAST ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



5 3D VIEW FROM NORTHEAST



6 3D VIEW FROM SOUTHWEST

NOTE: ALL WORK ON THIS PAGE IS DEPICTED AS BASED BID & ALL ALTERNATES. REFER TO A2.1 FOR DESCRIPTIONS OF WORK FOR BASE BID AND EACH ALTERNATE BID. RE: A 3.0 FOR FURTHER VISUAL CLARIFICATION.

Project:	2019.10
Release Date:	07/16/2026
Revisions:	No. Description
	Date

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion
BRENHAM, TEXAS

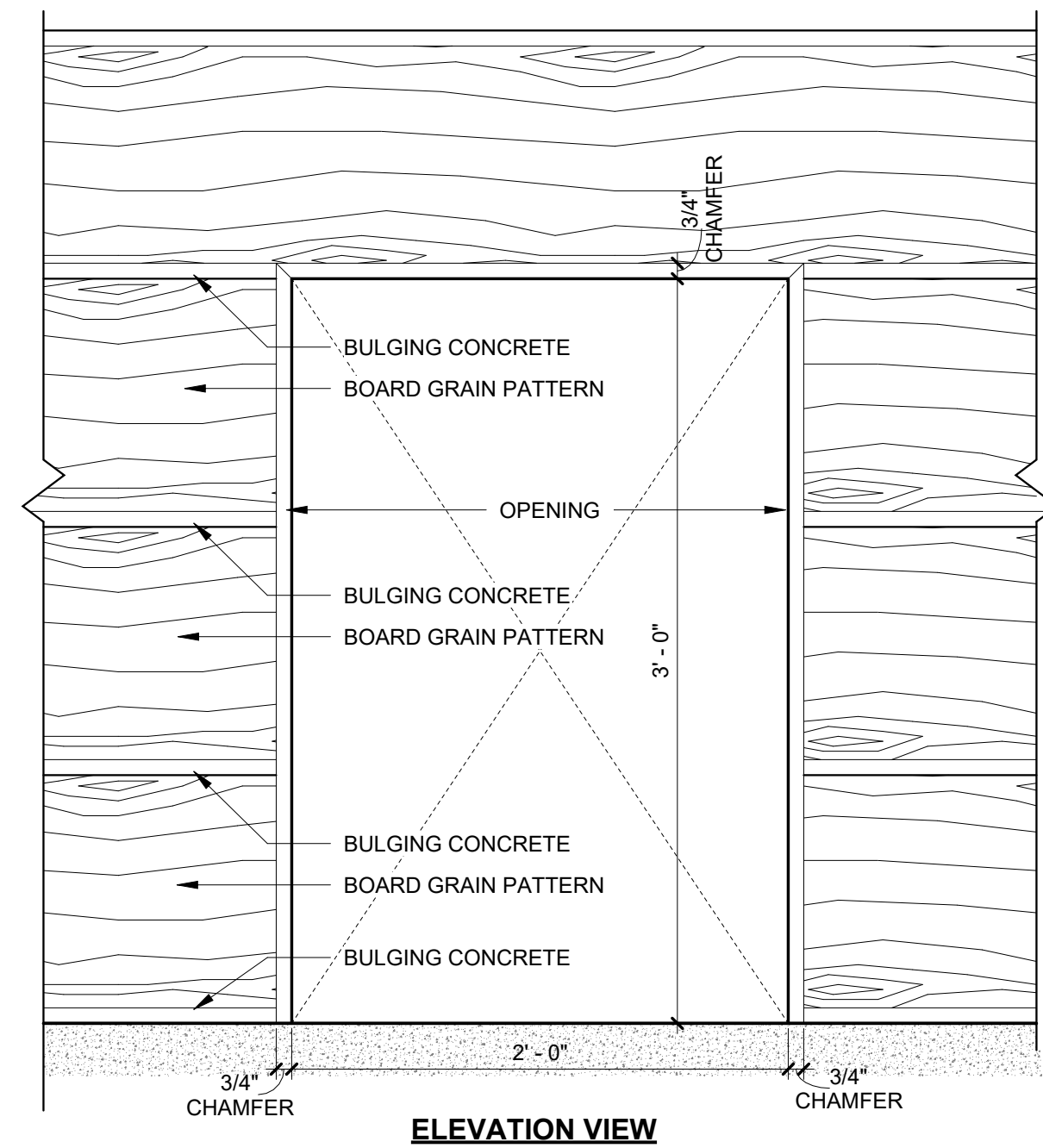
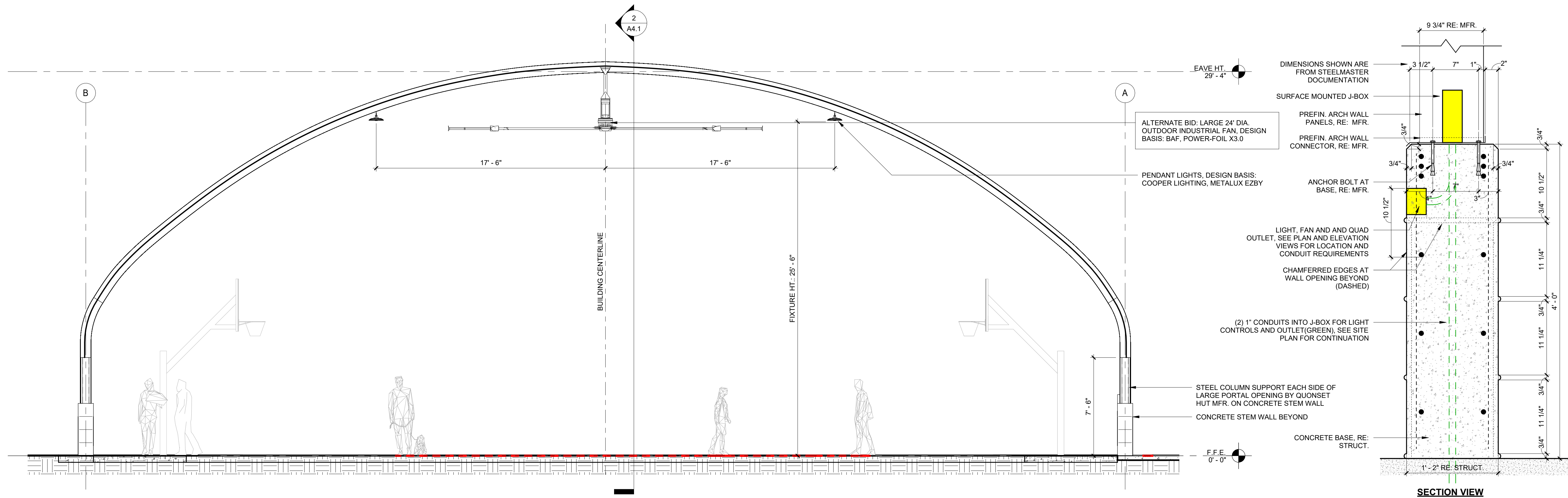
Architect:
BBAX Architects
213 W Main St. Brenham, TX 77833
Tel: (979) 838-5023
Email: mailbox@bbax.com



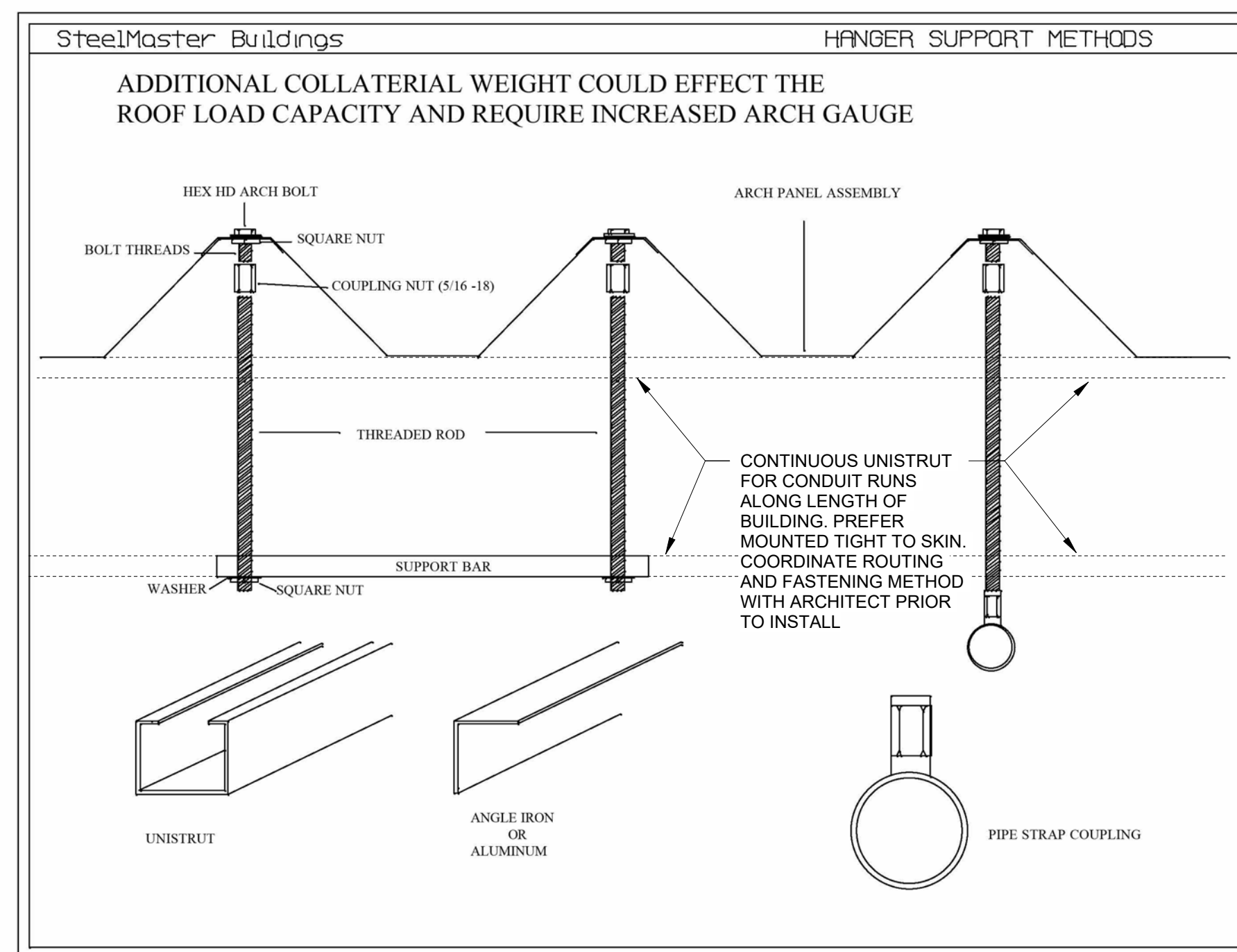
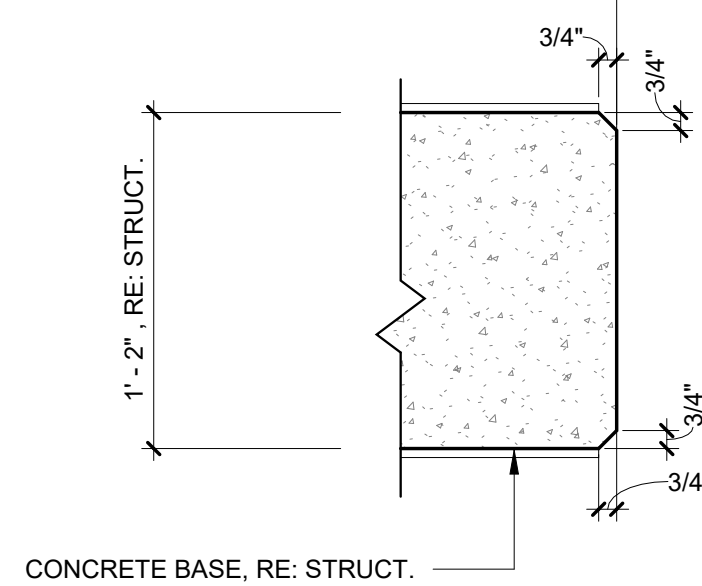
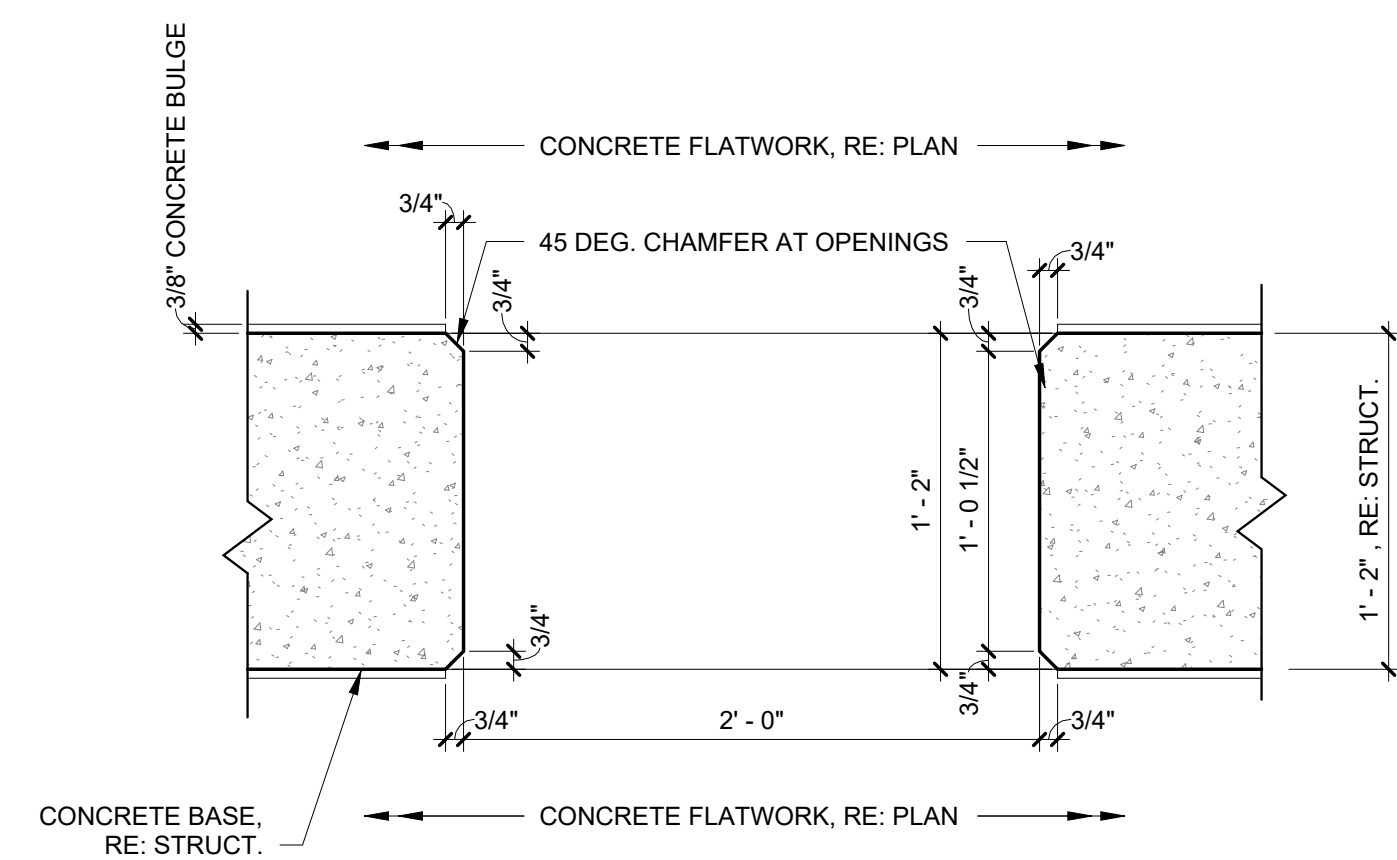
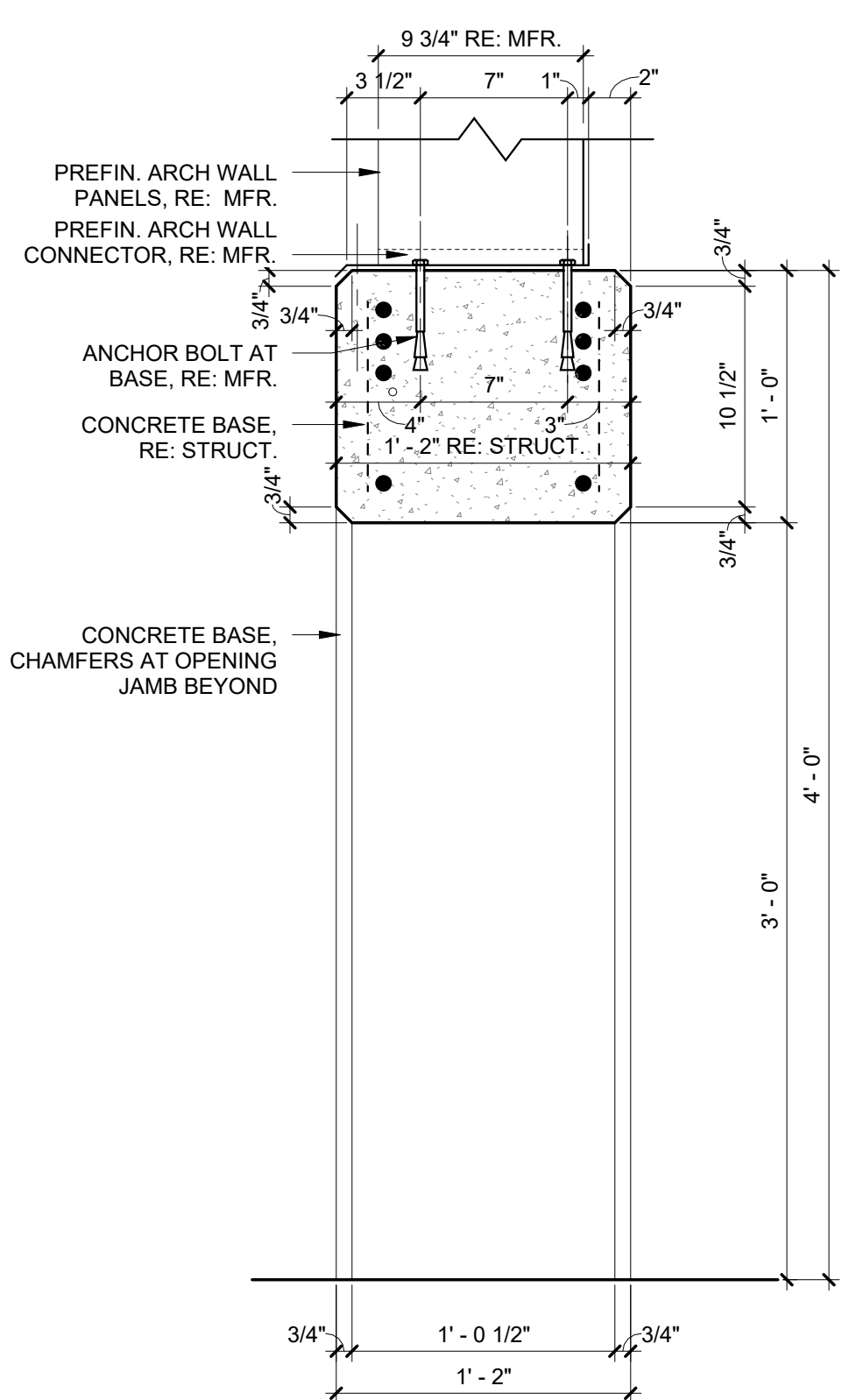
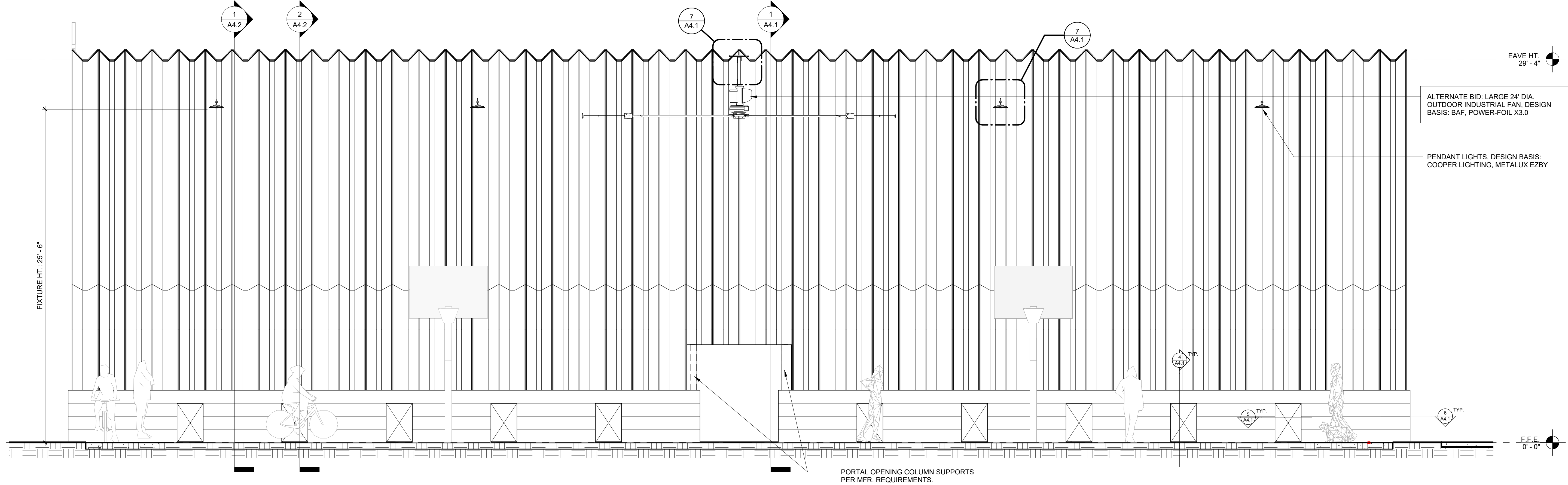
07/16/2026
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Exterior Elevations

A3.1
8 OF 11



3 QUONSET HUT BASE
1 1/2" = 1'-0"



Project:	2019.10
Release Date:	07/16/2026
Revisions:	No. Description
	Date

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion

BRENNHAM, TEXAS

Architect:

BBAX Architects

213 W Main St. Brenham, TX 77833
Tel: (979) 836-0523
Email: mailbox@bba-x.com

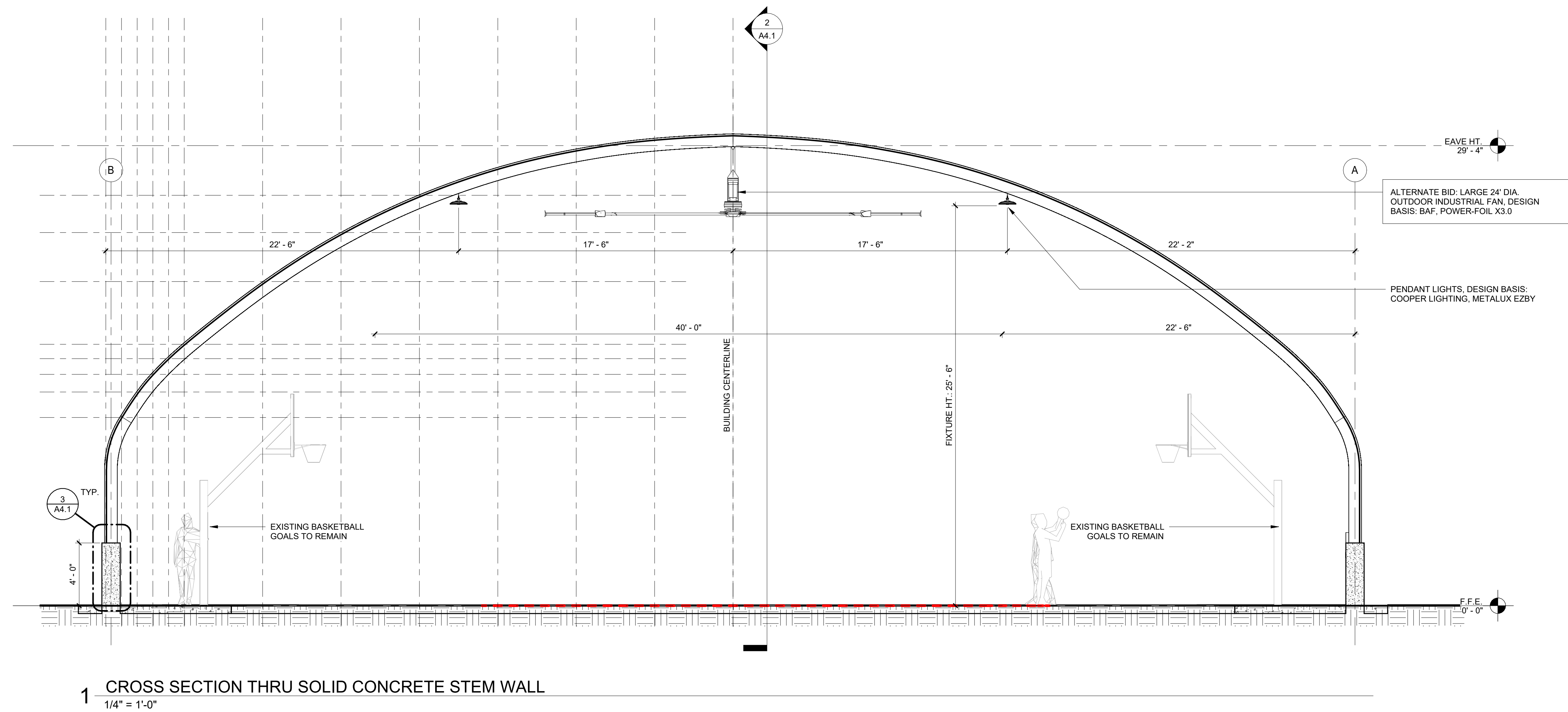
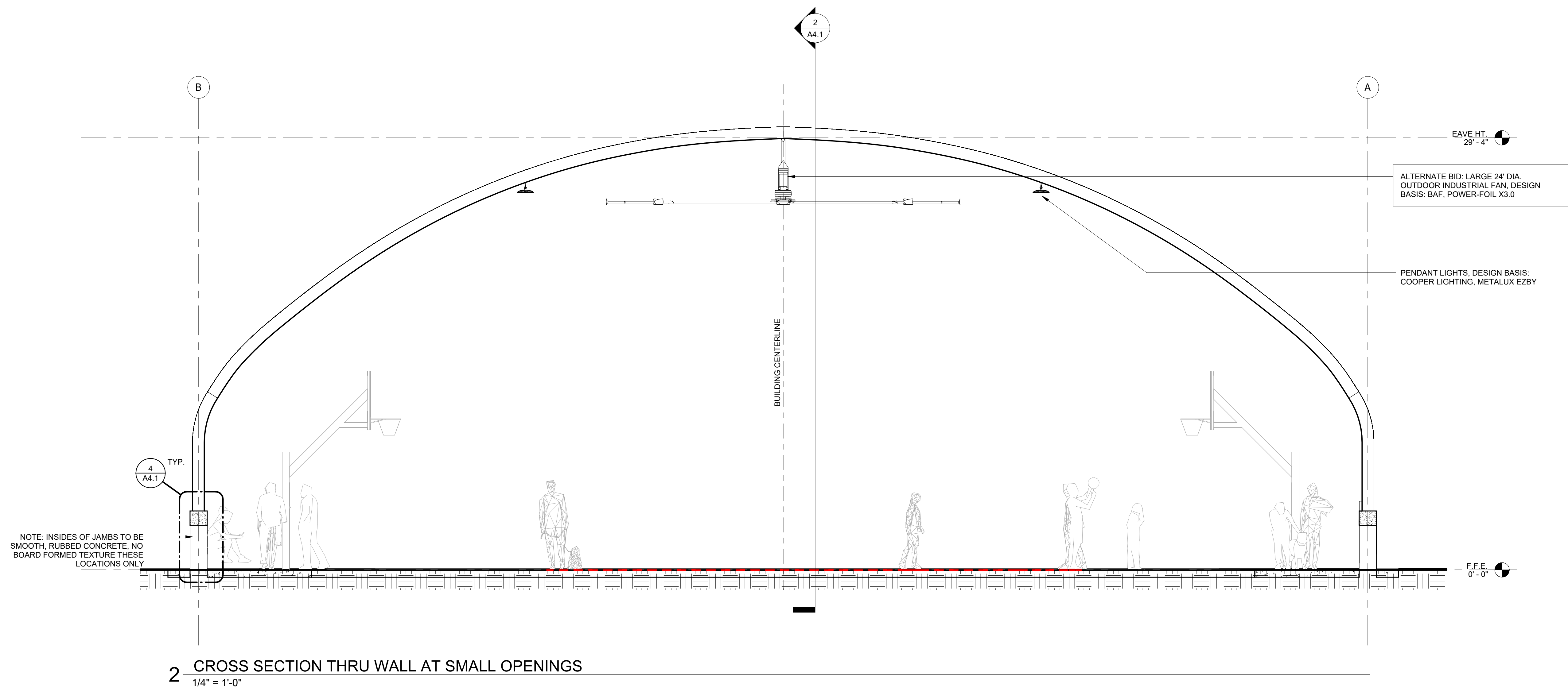


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Building Sections

A4.1

9 OF 11



Project:	2019.10	Release Date:	07/16/2026	No.	Description	Date
Revisions:						

Consultant:

City of Brenham Henderson
Park Basketball Court
Pavilion
BRENHAM, TEXAS

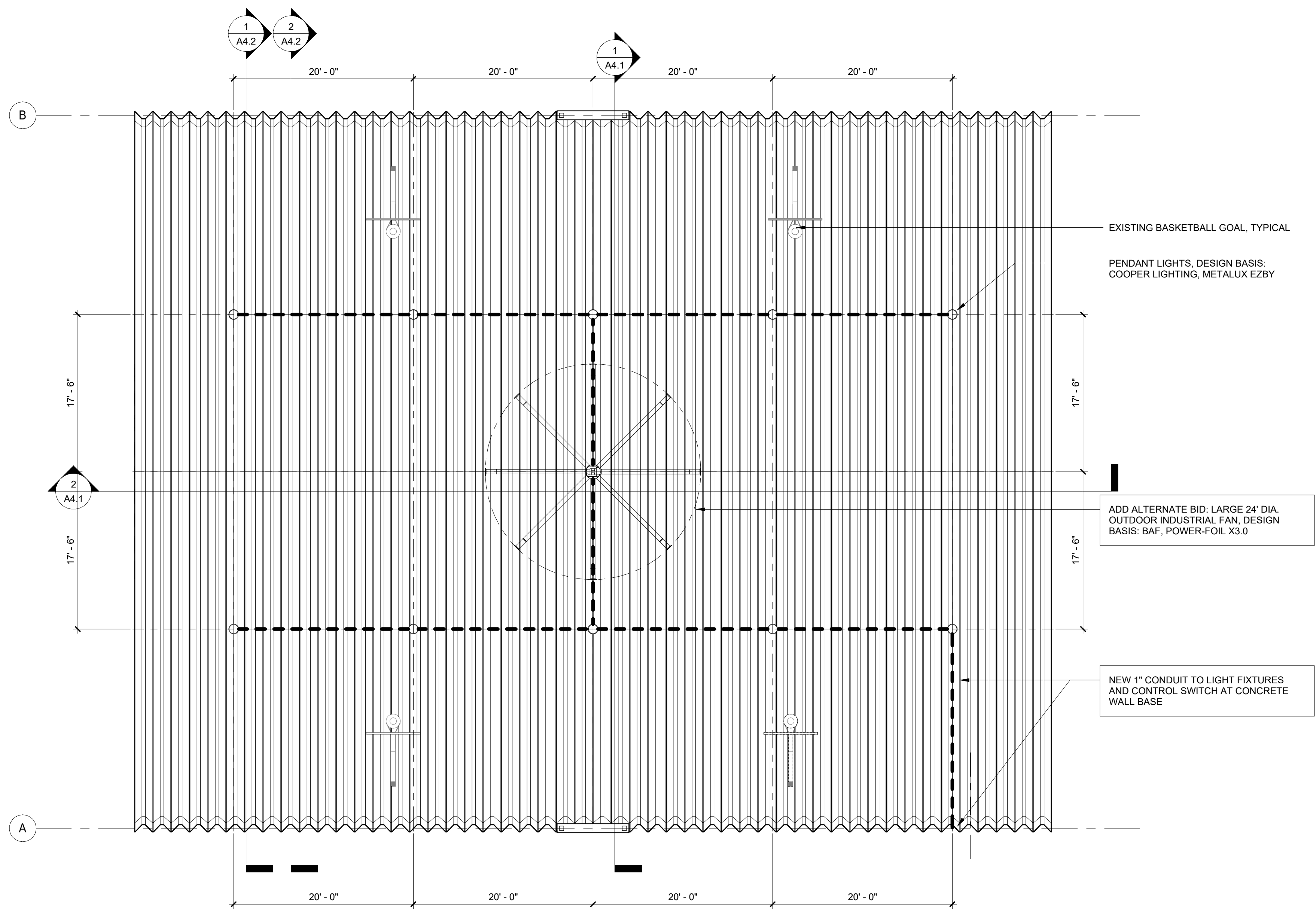
Architect:
BBAX Architects
213 W Main St. Brenham, TX 77833
Tel: (979) 838-0523
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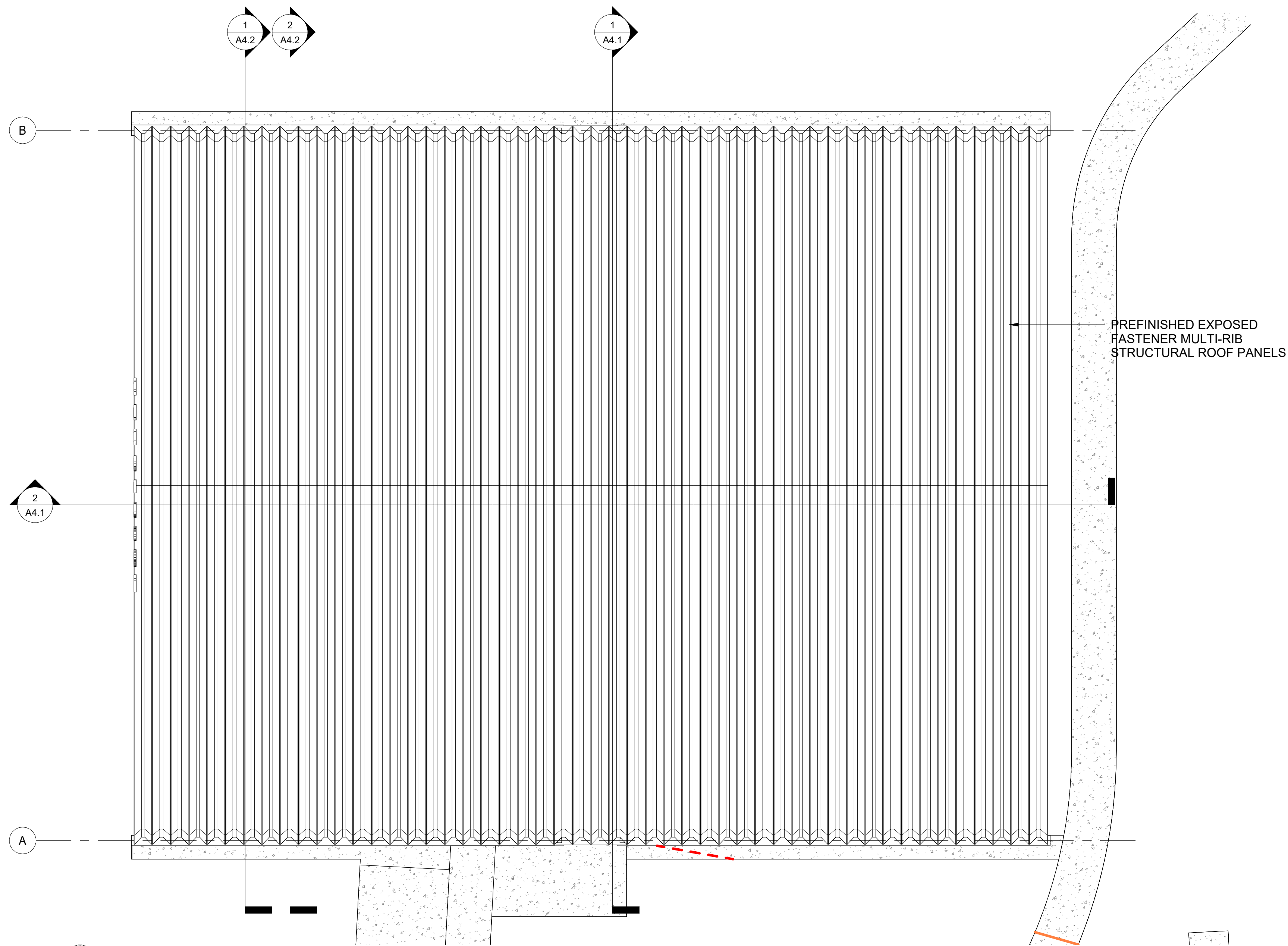
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Building Sections

A4.2
10 OF 11



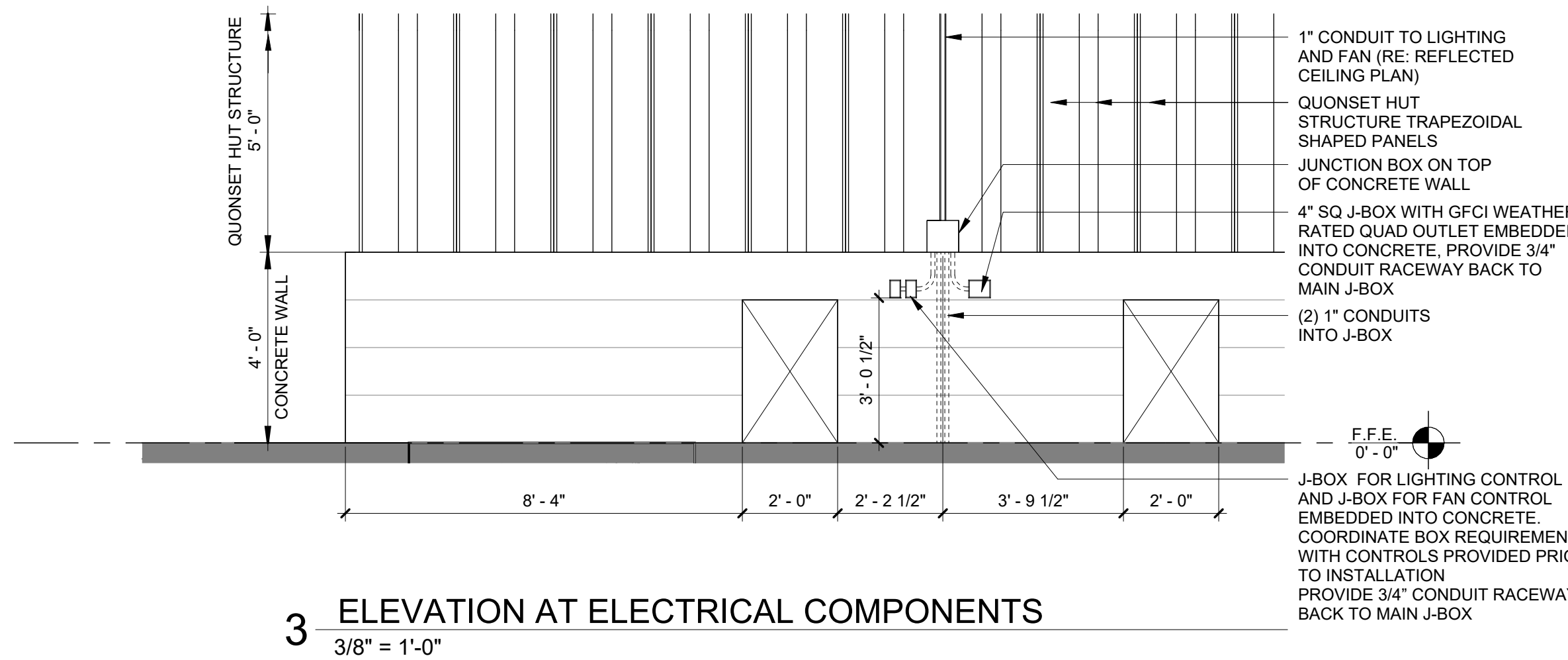
1 REFLECTED CEILING PLAN
1/8" = 1'-0"



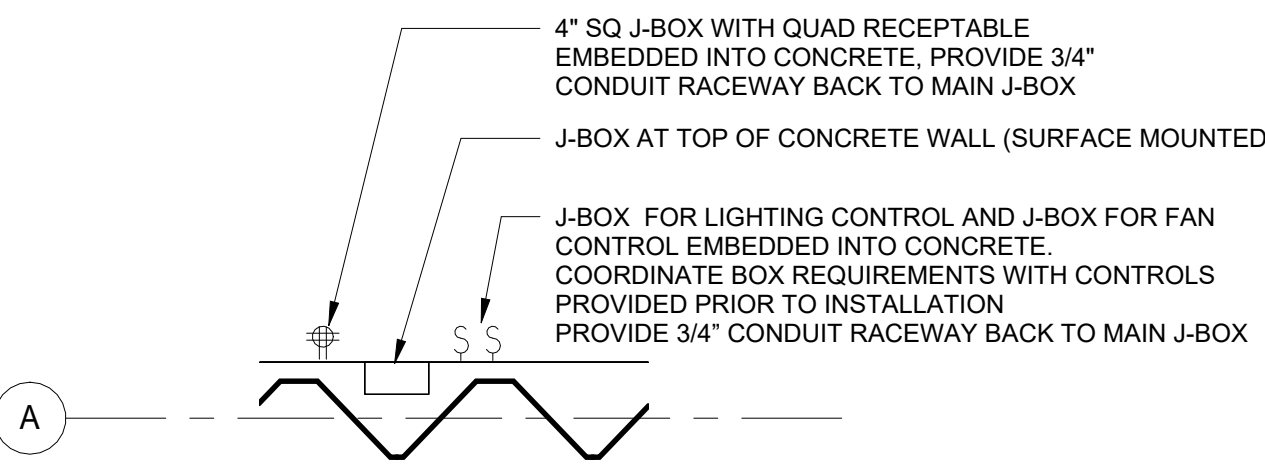
2 ROOF PLAN
1/8" = 1'-0"
PLAN NORTH

LEGEND			
MARK	DESCRIPTION	MARK	DESCRIPTION
○	PENDANT DOWNLIGHT		

GENERAL REFLECTED CEILING PLAN NOTES	
1. ALL EXTERIOR LAMPS SHALL BE A CONSISTENT COLOR TEMPERATURE: 40000 K U.N.O.	
2. 1. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, ELECTRICAL, & STRUCTURAL PLANS TO ASCERTAIN EXACT CONDITIONS AND COMPONENTS RELATED TO THE WORK DESCRIBED BY THESE DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH ACCEPTED MANUFACTURER'S PRINTED INSTRUCTIONS AND NRCA STANDARDS.	



3 ELEVATION AT ELECTRICAL COMPONENTS
3/8" = 1'-0"



4 PLAN AT ELECTRICAL COMPONENTS
1/2" = 1'-0"

Project:	2019.10	Date:	
Release Date:	07/16/2026	No.	
Revisions:		Description	

Consultant:	
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City of Brenham Henderson Park Basketball Court Pavilion	BRENNHAM, TEXAS
--	--------------------

Architect:	BBA Architects LP 1702 South Market Street Brenham, TX 77833 Tel: (979) 834-5523 Email: mailbox@bba-architects.com
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FOR REVIEW ONLY DOCUMENT INCOMPLETE. NOT RELEASED FOR REGULATORY APPROVAL, PERMIT, OR CONSTRUCTION ARCHITECT: DARREN C. HEINE REGISTRATION NO.: 13984 DATE: 07/16/2026
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RCP & Roof Plan

A8.1
11 OF 11

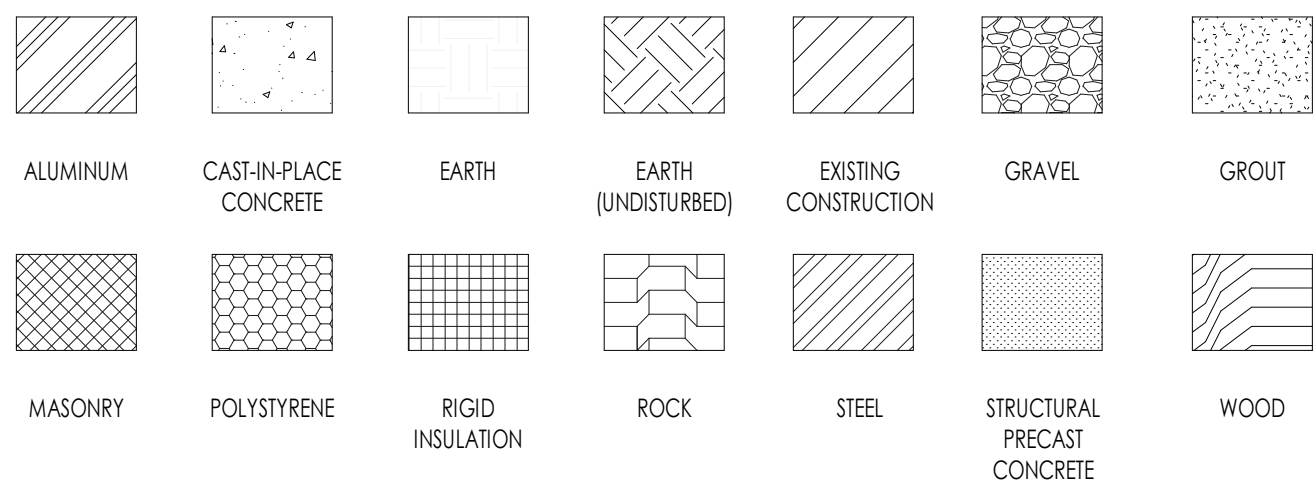
STRUCTURAL SUBMITTAL REVIEW

1. STRUCTURAL SUBMITTAL REVIEW IS LIMITED TO SUBMITTALS IDENTIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS OR STRUCTURAL GENERAL NOTES AS REQUIRED REVIEW BY THE STRUCTURAL ENGINEER OF RECORD (SER).
2. THE SER WILL REVIEW ONLY SUBMITTALS TRANSMITTED BY THE CLIENT, ARCHITECT, OR CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND HAS NO RESPONSIBILITY TO SER OUT, TRACK, OR ENFORCE SUBMISSION OF REQUIRED SUBMITTALS.
3. REFER TO THE SUBMITTAL SECTION OF THE GENERAL NOTES FOR ADDITIONAL DEFINITIONS, CRITERIA AND REQUIREMENTS.
4. THE CONTRACTOR SHALL CLEARLY IDENTIFY ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS OR REQUESTS FOR CLARIFICATION WITHIN THE SUBMITTAL.
5. THE SER'S BASIC SERVICES INCLUDE REVIEW OF THE INITIAL SUBMITTAL AND ONE (1) RESUBMITTAL PER SUBMITTAL REVIEW OF ADDITIONAL RESUBMITTALS OR EXPEDITED REVIEW REQUESTS MAY BE TREATED AS ADDITIONAL SERVICES.
6. SUBMITTALS NOT IDENTIFIED AS REQUIRED STRUCTURAL REVIEW MAY BE RETURNED WITHOUT REVIEW OR MARKED FOR RECORD ONLY.
7. ADDITIONAL SUBMITTALS NOT INCLUDED IN THE LIST OR WITHIN THE CONTRACT DOCUMENTS MAY BE SUBJECT TO ADDITIONAL SERVICES.
8. IF THERE IS NOT A GREEN CHECK MARK NEXT TO THE ROW, THEN IT IS NOT REQUIRED FOR THIS PROJECT. UNCL.

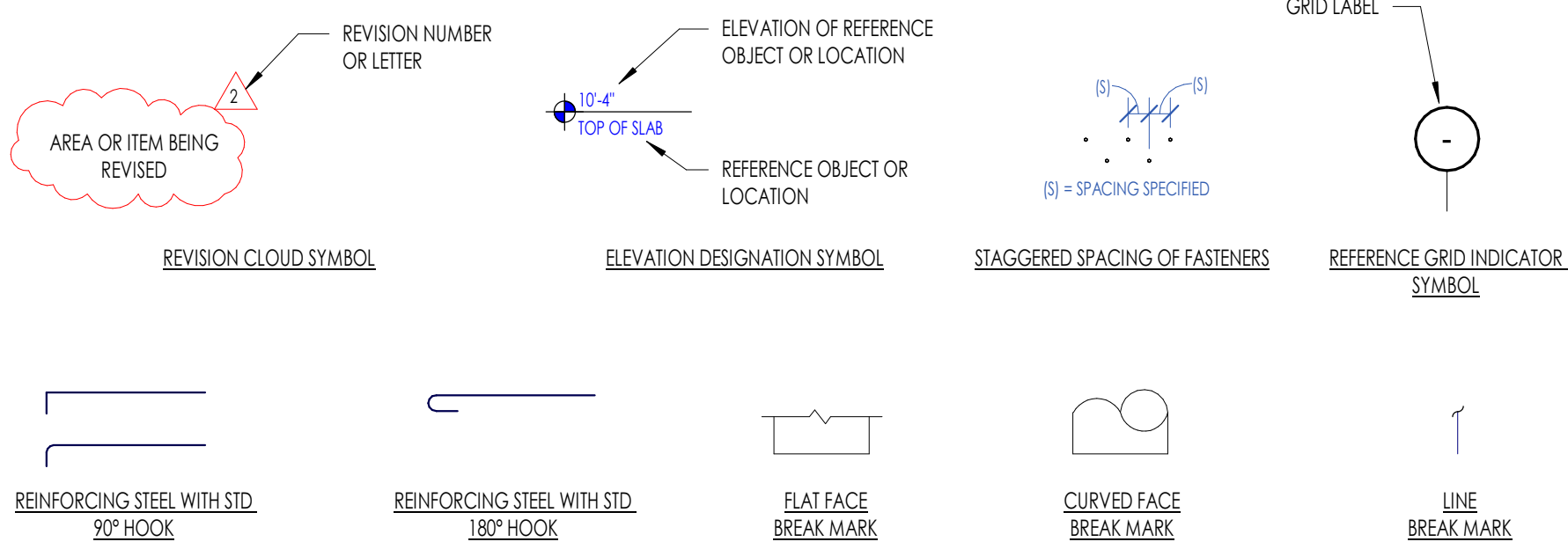
	MATERIAL	SUBMITTALS REQUIRING SER REVIEW
✓	BUILDING PAD SOILS	- REVIEW OF SELECT FILL PIT MOISTURE DENSITY REPORTS - REVIEW FOR "IMPACT TO STRUCTURE" AND RETURN TO THE GEOTECHNICAL ENGINEER FOR APPROVAL
	STRUCTURAL STEEL	- SHOP DRAWINGS, ERECTION DRAWINGS, EMBEDMENT DRAWINGS - CONNECTIONS, STABLE, WALLS, ETC. DEFERRED DESIGN TO A-ISE
✓	REINFORCED CONCRETE	- MIX DESIGN - REINFORCEMENT PLACEMENT DRAWINGS - SLAB CONSTRUCTION & CONNECTION JOINT LAYOUT AND POUR SEQUENCE - PRE-CAST CONCRETE PLANS (IF REQ'D) - VOID FORMS (IF REQ'D)
✓	R.C. RETAINING WALL	- MIX DESIGN - REINFORCEMENT PLACEMENT DRAWINGS - WALL CONSTRUCTION & CONNECTION JOINT LAYOUT AND POUR SEQUENCE
	TILT-UP PANELS	- SHOP DRAWINGS (COORDINATE WITH STEEL SHOPS FOR EMBED PLATES) - REINFORCEMENT PLACEMENT DRAWINGS - PANEL BACK - CASTING SLAB - FORMS - UPTIGHT BRACING - INSULATED PANEL INSULATION AND VENER CONNECTORS (IF REQ'D) - PLACEMENT DRAWINGS
	STEEL JOISTS	PLACEMENT DRAWINGS
	STEEL DECK	PLACEMENT DRAWINGS
	COLD-FORMED METAL FRAMING	- SHOP DRAWINGS - CALCULATIONS PACKAGES STAMPED BY THE SSE - TRUSS SUBMITTAL PACKAGE (IF REQ'D)
	WOOD TRUSSES / ENG. WOOD	- TRUSS SUBMITTAL PACKAGE - TRIMMABLE RISERS
	ARCH BUILDING	ARCH BUILDING SYSTEM SUBMITTAL
	CMU	- MIX DESIGN (MORTAR AND GROUT) - COMPRESSIVE STRENGTH (BLOCK STRENGTH REPORTS) - PRODUCT INFORMATION (BAM FOR JOINTS, JOINT REINFORCEMENT) - REINFORCEMENT PLACEMENT DRAWINGS - UPT SEQUENCE / METHOD (IF NOT USING LOW-IMP METHOD FOR INFORMATION ONLY) - TEMPORARY BRACING PLAN (FOR INFORMATION ONLY)
✓	MISCELLANEOUS STRUCTURAL: QUONSET HUT	- SHOP DRAWINGS (REACTIONS & CONNECTION DETAILS) IF ATTACHED TO STRUCTURE WILL BE REVIEWED FOR "IMPACT TO STRUCTURE" BASED ON CONFORMANCE WITH CONSTRUCTION DOCUMENTS. - REVIEW OF CALCULATION PACKAGES STAMPED BY AN SSE IF THERE IS NO DIRECT IMPACT TO THE PRIMARY STRUCTURE, WILL BE REVIEWED FOR "INFORMATION ONLY"
	MISCELLANEOUS ARCHITECTURAL	- SUPPORT TO STRUCTURE FOR: MECH UTILITIES/EQUIPMENT, CEILING/SOFFITS, HALL FANS, OPERABLE PARTITIONS, OVERHEAD DOORS, ETC. - EXTERIOR CLADDING SYSTEMS AND STOREFRONTS - COVERS, SCREEN WALLS, MECHANICAL SCREENS, ETC. - ARCHITECTURAL CAST STONE - SITE EQUIPMENT IF THERE IS NO DIRECT IMPACT TO THE PRIMARY STRUCTURE, WILL BE REVIEWED FOR "INFORMATION ONLY"

CONTRACTOR MUST SUBMIT A SUBMITTAL SCHEDULE PRIOR TO THE START OF CONSTRUCTION

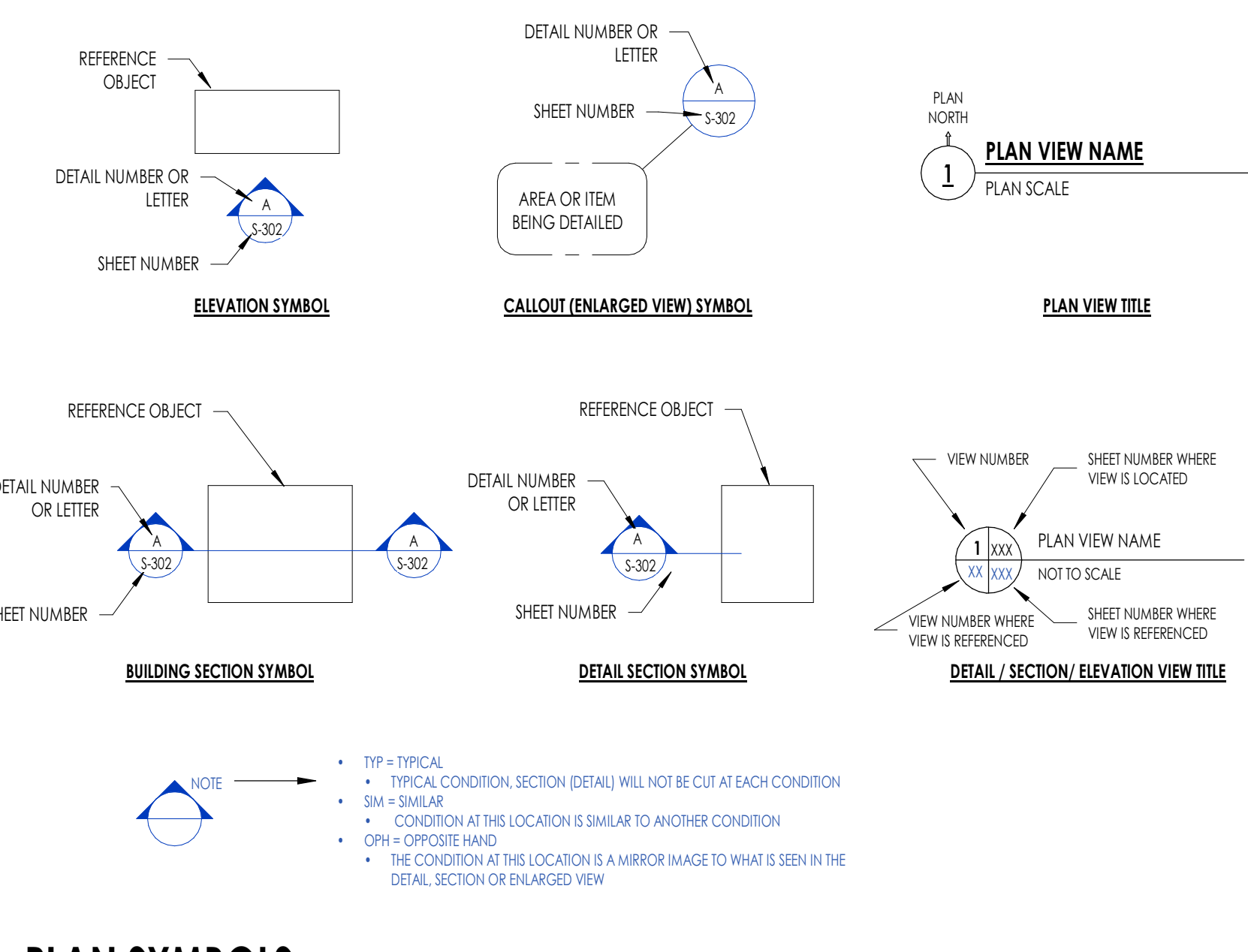
MATERIAL IDENTIFICATION SYMBOLS



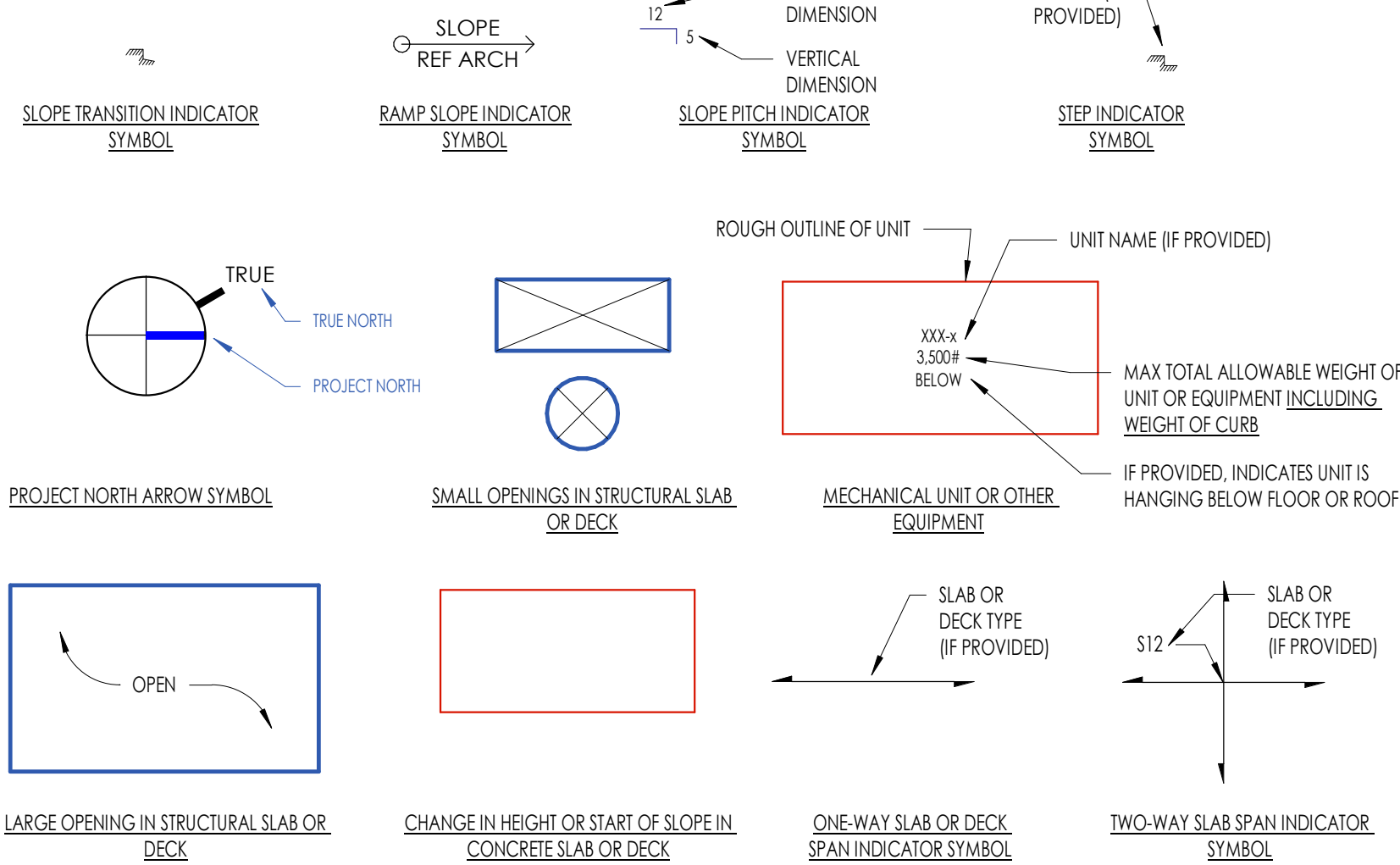
UNIVERSAL SYMBOLS



VIEW REFERENCE SYMBOLS



PLAN SYMBOLS



ABBREVIATIONS

@	AT	LSH	LONG SIDE HORIZONTAL
&	AND	LSD	LONG SIDE VERTICAL
#	NUMBER	LWC	LIGHTWEIGHT CONCRETE
Ø	ROUND DIAMETER	M	MOMENT
ADOL	ADDITIONAL	MAX	MAXIMUM
ASST	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MCC	MOMENT CONNECTION
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MEZZ	MEZANINE
ALT	ALTERNATE	MFR	MANUFACTURER
APPROX	APPROXIMATE	MH	HORIZONTAL MOMENT
ARCH	ARCHITECTURAL	MIN	MINIMUM
BLOG	BUILDING	MISC	MISCELLANEOUS
BO	BOTTOM OF	MPCWT	METAL PLATE CONNECTED WOOD TRUSS
BOO	BOTTOM OF DECK	MTL	METAL
BOI	BOTTOM	NF	NEAR FACE
BRDG	BRIDGING	NI	NOT IN CONTRACT
BRG	BEARING	NLB	NON-LOAD BEARING
BTWN	BETWEEN	NS	NEAR SIDE
C	CAMMER	NBS	NOT TO SCALE
CANT	CANTILEVER	NWC	NORMALWEIGHT CONCRETE
CTS	COLD-FORMED STEEL	N/A	NOT APPLICABLE
CMF	COLD FORMED METAL FRAMING	NR	NOT REQUIRED
CIP	CASH-IN-PLACE	OC	ON CENTER
CJ	CONSTRUCTION/CONTRACTION (CONTROL) JOINT	OJD	OUTSIDE DIAMETER
CJP	COMPLETE JOINT PENETRATION	OPH	OPPOSITE HAND
CL	CENTRINE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	OVB	ORIENTED STRAND BOARD (WOOD)
CONC	CONCRETE	OVS	OVERSIZED HOLE
CONN	CONNECTION	P	AXIAL LOAD
CONSTR	CONSTRUCTION	PAF	POWDER ACTUATED FASTENER
CONT	CONTINUOUS	PAR	PARALLEL
COORD	COORDINATE	PCC	PRECAST CONCRETE
CTRS	CENTERS	PCF	POUNDS PER CUBIC FOOT
db	BAR DIAMETER	PCY	POUNDS PER CUBIC YARD
DBA	DEFORMED BAR ANCHOR	PERP	PERPENDICULAR
DF	DOUBLE ENDER (WOOD)	RAD	RADIUS
DIA (Ø)	DIAMETER	P	POUNDS PER LINEAR FOOT
DM	DIMENSION	PJP	PARTIAL JOINT PENETRATION
DWG	DRAWING	PRELIM	PRELIMINARY
EA	EACH	PROP	PROPERTY
EF	EACH FACE	PSF	POUNDS PER SQUARE FOOT
EJ	EXPANSION JOINT	PSI	POUNDS PER SQUARE INCH
EL (ELEV)	ELEVATION	PT	POSTERISCH (NIE)
EMBED	EMBEDMENT, EMBEDDED	QTY	QUANTITY
ENGR	ENGINEER	R	RADIUS
EQ	EQUAL	REF	REFERENCE
EQUIP	EQUIPMENT	REINP	REINFORCEMENT
EQUIV	EQUIVALENT	REQD	REQUIRED
EW	EACH WAY	REVIS	REVISION
EXP	EXPANSION	RTU	ROOF TOP UNIT
EXT	EXTERIOR	SC	SUP. CRITICAL
FAB	FABRICATE	SCHED	SCHEDULED
fc	28 DAY CONCRETE STRENGTH	SECT	SECTION
f _m	28 DAY MASONRY STRENGTH	SER	STRUCTURAL ENGINEER OF RECORD
FDR	FLOOR DRAIN	SHT	SHEET
FDN	FOUNDATION	SIM	SIMILAR
FF	FAR FACE	SIBB	SHORT LEG BACK TO BACK
FFE	FINISHED FLOOR ELEVATION	SIRS	SEISMIC LOAD RESISTING SYSTEM
FIN	FINISHED	SOG	SLAB ON GRADE
FLR	FLOOR	SPA	SPACING
FS	FAR SIDE	SPEC	SPECIFICATION
FTG	FOOTING	SQ	SQUARE
FUT	FUTURE	SSE	SPECIALTY STRUCTURAL ENGINEER
PV	FIELD VERIFY	STD	STANDARD
GY	YIELD STRENGTH	STIF	STIFFENER
GAUV	GALVANIZED	STR	STEEL
GC	GENERAL CONTRACTOR	STRUCT (STR)	STRUCTURE, STRUCTURAL
GEN	GENERAL	SW	SHEAR WALL
GR	GRADE	SYMM	SYMMETRIC, SYMMETRICAL
H	HORIZONTAL REACTION	SYP	SOUTHERN YELLOW PINE
HGR	HANGER	T	TORSION
HORIZ	HORIZONTAL	TC	TOP OF COLUMN
HSR	HEADED STUD ANCHOR	TO	TOP OF
HSS	HOLLOW STRUCTURAL SECTION	TCC	TOP OF CONCRETE
ID	INSIDE DIAMETER	TOM	TOP OF MASONRY
INFO	INFORMATION	TOS	TOP OF STEEL
INT	INTERIOR	TRANS	TRANSVERSE
JOINT	JOINT	TYP	TYPICAL
K	KIPS (1,000 LBS)	UNO	UNLESS NOTED OTHERWISE
KSF	KIPS PER SQUARE FOOT	VERT	VERTICAL
KSI	KIPS PER SQUARE INCH	WF (W)	WIDE FLANGE
LBS	POUNDS	WP	WORK POINT
LG	DEVELOPMENT LENGTH	WTS	WATERTIGHT
LLBB	LONG LEG BACK TO BACK	WSP	WOOD STRUCTURAL PANEL
LLH	LONG LEG HORIZONTAL	WT	WEIGHT
LV	LONG LEG VERTICAL	WWR	WELDED WIRE REINFORCEMENT
LONG	LONGITUDINAL	XS	EXTRA STRONG (SCH. 40 PIPE)
		XXS	DOUBLE EXTRA STRONG (SCH. 80 PIPE)

DEFINITIONS

1. **DEFERRED SUBMITTALS** ARE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION FOR PERMIT AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPC) SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY THE CONTRACTOR, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPLIANCE WITH THE DESIGN OF THE BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING A LICENSED DESIGN PROFESSIONAL TO DESIGN THE DEFERRED ITEMS. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPC) SHALL LIST THE DEFERRED SUBMITTALS ON THE CONSTRUCTION DOCUMENTS FOR REVIEW BY THE BUILDING OFFICIAL. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPC) WHO SHALL REVIEW THEM AND FURNISH THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
2. **HORIZONTAL LATERAL LOAD RESISTING SYSTEM (DLRPHAS)** IS A STRUCTURAL ELEMENT WHICH TRANSMITS LATERAL LOADS TO THE VERTICAL LATERAL LOAD RESISTING SYSTEM.
3. **NON-STRUCTURAL ELEMENTS** ARE ELEMENTS OF A BUILDING THAT ARE NOT PRIMARY OR SECONDARY STRUCTURAL ELEMENTS. ITEMS IN THIS CATEGORY COULD INCLUDE CURTAIN WALLS AND CLADDING, NON-BEARING PARTITIONS, GLASS RAILINGS, ETC. THESE ELEMENTS ARE NOT INCLUDED IN THE SER'S BASIC SCOPE OF SERVICES ON THIS PROJECT AND SHALL BE TREATED AS A DEFERRED SUBMITTAL.
4. **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 FACADES ARE EXAMPLES OF ITEMS WHICH ARE NOT PART OF THE PRIMARY STRUCTURAL SYSTEM.
5. **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 RESPONSIBLE CHARGE (RDPC) AND MUST FULFILL THE DUTIES OUTLINED AS SUCH IN THE BUILDING CODE ADOPTED BY THE RELEVANT AUTHORITY HAVING JURISDICTION.
6. **REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (RDPC)** 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 OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPLIANCE WITH THE DESIGN OF THE BUILDING. TYPICALLY, THIS IS THE ARCHITECT OR CIVIL ENGINEER OF RECORD.
7. **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 REGISTRATION LAWS OF THE STATE OR JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED.
8. **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 STRUCTURAL SYSTEM. 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, ELEVATOR SUPPORT RAILS AND BEAMS, RETAINING WALLS, INTERIOR PART OF THE PRIMARY BUILDING, AND TACKLE OR LIGHT POLE FOUNDATIONS.
9. **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 ELEMENTS OF A PROJECT NOT COVERED BY THE SER AS LIMITED IN THE AGREEMENT.
10. **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 THE PRIMARY STRUCTURAL SYSTEM.
11. **SUBMITTAL SCHEDULE** IS A DOCUMENT PREPARED BY THE CONTRACTOR THAT OUTLINES THE TIMING AND SEQUENCING OF ALL REQUIRED SUBMITTALS, INCLUDING SHOP DRAWINGS, PROJECT DATA SAMPLES, AND OTHER INFORMATION THAT MUST BE REVIEWED AND APPROVED BY THE PRIME DESIGN PROFESSIONAL AND OTHER RELEVANT DESIGN PROFESSIONALS BEFORE FABRICATION AND INSTALLATION. THE SCHEDULE SHALL LIST ALL REQUIRED SUBMITTALS, PROVIDE SUBMISSION AND REVIEW TIMELINES AND BE UPDATED THROUGHOUT THE PROJECT TO REFLECT ANY CHANGES.
12. **VERTICAL LATERAL LOAD RESISTING SYSTEM (DLRPHAS)** IS A STRUCTURAL SYSTEM WHICH TRANSMITS THE LATERAL LOADS INDUCED UPON THE STRUCTURE TO THE FOUNDATION AND ULTIMATELY INTO THE EARTH.
13. **GEOTECHNICAL ENGINEER OF RECORD (GER)** IS A REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF ALL FOUNDATION AND PLATWORK RECOMMENDATIONS.
14. **FIELD VERIFICATION** DIMENSIONS MARKED "FIELD VERIFY" (FV) OR "VERIFY IN FIELD" ARE APPROXIMATE OR BASED ON DESIGN ASSUMPTIONS AND MUST BE CONFIRMED BY THE CONTRACTOR THROUGH ON-SITE MEASUREMENTS PRIOR TO FABRICATION OR INSTALLATION. DO NOT RELY ON THESE DIMENSIONS WITHOUT FIELD VERIFICATION. IF FIELD-VERIFIED DIMENSIONS SIGNIFICANTLY DEVIATE FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE STRUCTURAL ENGINEER OF RECORD (SER) IN WRITING VIA REQUEST FOR INFORMATION (RFI) FOR EVALUATION AND POTENTIAL DESIGN REVISIONS.

Project:	25-00394	Release Date:	07/10/2026	Date	
Revisions:		No.	Description		

Consultant:

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City of Brenham Henderson
Park Basketball Court
Pavilion

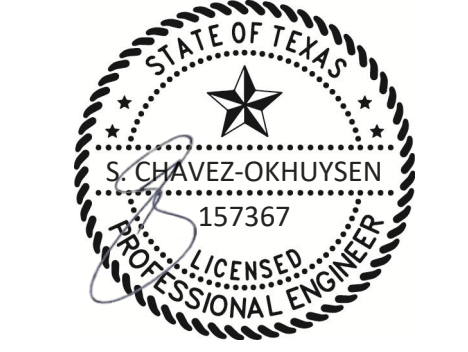
TEXAS

BRENNHAM,

Architect:

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07/10/2026

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SUBMITTALS,
SYMBOLS,
NOTATIONS, &
DEFINITIONS

S0.2

.....OF.....

[illegible]

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REQUIRED	REFERENCE STANDARD ^a
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS AND ANCHORAGE. (PER NOTE 1 AND GENERAL NOTES FOR SPECIAL INSPECTION TASKS)	X	-	YES	ACI 318 Ch. 20, 25.2, 26.3.1, 26.6.3
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF SPECIAL REINFORCING BAR OTHER THAN ASTM A76.	-	X	YES	AWI D.4
b. INSPECT WELDING OF REINFORCING FOR SPECIAL MOMENT FRAME.	-	X	YES	ACI 318-26.13.1.4 AND 6.13.3
c. BONDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS.	-	X	YES	
d. INSPECT WELDED REINFORCEMENT JOINTS.	-	X	YES	
e. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS.	-	X	YES	
f. INSPECT INCLINED PLATE FILLET WELDS, MINIMUM 5/16".	-	X	YES	
g. INSPECT ALL OTHER WELDS.	-	X	YES	
3. INSPECTION OF ANCHORS CAST IN CONCRETE	-	X	YES	ACI 318-26.13.3
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. SPECIAL INSPECTOR MUST BE PRESENT FOR FIRST INSTALLATION AT A MINIMUM				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UNWANTED INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	YES	ACI 318-26.13.3.2
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 6.4.	-	X	YES	ACI 318-26.13.3
5. VERIFYING USE OF REQUIRED MIX DESIGN	-	X	YES	ASTM C31, ASTM C1191, ACI 318-26.12.1, 26.12.2, 26.12.3, 26.12.4, 26.12.5, 26.12.6, 26.12.7, 26.12.8, 26.12.9, 26.12.10, 26.12.11, 26.12.12, 26.12.13, 26.12.14, 26.12.15, 26.12.16, 26.12.17, 26.12.18, 26.12.19, 26.12.20, 26.12.21, 26.12.22, 26.12.23, 26.12.24, 26.12.25, 26.12.26, 26.12.27, 26.12.28, 26.12.29, 26.12.30, 26.12.31, 26.12.32, 26.12.33, 26.12.34, 26.12.35, 26.12.36, 26.12.37, 26.12.38, 26.12.39, 26.12.40, 26.12.41, 26.12.42, 26.12.43, 26.12.44, 26.12.45, 26.12.46, 26.12.47, 26.12.48, 26.12.49, 26.12.50, 26.12.51, 26.12.52, 26.12.53, 26.12.54, 26.12.55, 26.12.56, 26.12.57, 26.12.58, 26.12.59, 26.12.60, 26.12.61, 26.12.62, 26.12.63, 26.12.64, 26.12.65, 26.12.66, 26.12.67, 26.12.68, 26.12.69, 26.12.70, 26.12.71, 26.12.72, 26.12.73, 26.12.74, 26.12.75, 26.12.76, 26.12.77, 26.12.78, 26.12.79, 26.12.80, 26.12.81, 26.12.82, 26.12.83, 26.12.84, 26.12.85, 26.12.86, 26.12.87, 26.12.88, 26.12.89, 26.12.90, 26.12.91, 26.12.92, 26.12.93, 26.12.94, 26.12.95, 26.12.96, 26.12.97, 26.12.98, 26.12.99, 26.13.00, 26.13.01, 26.13.02, 26.13.03, 26.13.04, 26.13.05, 26.13.06, 26.13.07, 26.13.08, 26.13.09, 26.13.10, 26.13.11, 26.13.12, 26.13.13, 26.13.14, 26.13.15, 26.13.16, 26.13.17, 26.13.18, 26.13.19, 26.13.20, 26.13.21, 26.13.22, 26.13.23, 26.13.24, 26.13.25, 26.13.26, 26.13.27, 26.13.28, 26.13.29, 26.13.30, 26.13.31, 26.13.32, 26.13.33, 26.13.34, 26.13.35, 26.13.36, 26.13.37, 26.13.38, 26.13.39, 26.13.40, 26.13.41, 26.13.42, 26.13.43, 26.13.44, 26.13.45, 26.13.46, 26.13.47, 26.13.48, 26.13.49, 26.13.50, 26.13.51, 26.13.52, 26.13.53, 26.13.54, 26.13.55, 26.13.56, 26.13.57, 26.13.58, 26.13.59, 26.13.60, 26.13.61, 26.13.62, 26.13.63, 26.13.64, 26.13.65, 26.13.66, 26.13.67, 26.13.68, 26.13.69, 26.13.70, 26.13.71, 26.13.72, 26.13.73, 26.13.74, 26.13.75, 26.13.76, 26.13.77, 26.13.78, 26.13.79, 26.13.80, 26.13.81, 26.13.82, 26.13.83, 26.13.84, 26.13.85, 26.13.86, 26.13.87, 26.13.88, 26.13.89, 26.13.90, 26.13.91, 26.13.92, 26.13.93, 26.13.94, 26.13.95, 26.13.96, 26.13.97, 26.13.98, 26.13.99, 26.14.00, 26.14.01, 26.14.02, 26.14.03, 26.14.04, 26.14.05, 26.14.06, 26.14.07, 26.14.08, 26.14.09, 26.14.10, 26.14.11, 26.14.12, 26.14.13, 26.14.14, 26.14.15, 26.14.16, 26.14.17, 26.14.18, 26.14.19, 26.14.20, 26.14.21, 26.14.22, 26.14.23, 26.14.24, 26.14.25, 26.14.26, 26.14.27, 26.14.28, 26.14.29, 26.14.30, 26.14.31, 26.14.32, 26.14.33, 26.14.34, 26.14.35, 26.14.36, 26.14.37, 26.14.38, 26.14.39, 26.14.40, 26.14.41, 26.14.42, 26.14.43, 26.14.44, 26.14.45, 26.14.46, 26.14.47, 26.14.48, 26.14.49, 26.14.50, 26.14.51, 26.14.52, 26.14.53, 26.14.54, 26.14.55, 26.14.56, 26.14.57, 26.14.58, 26.14.59, 26.14.60, 26.14.61, 26.14.62, 26.14.63, 26.14.64, 26.14.65, 26.14.66, 26.14.67, 26.14.68, 26.14.69, 26.14.70, 26.14.71, 26.14.72, 26.14.73, 26.14.74, 26.14.75, 26.14.76, 26.14.77, 26.14.78, 26.14.79, 26.14.80, 26.14.81, 26.14.82, 26.14.83, 26.14.84, 26.14.85, 26.14.86, 26.14.87, 26.14.88, 26.14.89, 26.14.90, 26.14.91, 26.14.92, 26.14.93, 26.14.94, 26.14.95, 26.14.96, 26.14.97, 26.14.98, 26.14.99, 26.15.00, 26.15.01, 26.15.02, 26.15.03, 26.15.04, 26.15.05, 26.15.06, 26.15.07, 26.15.08, 26.15.09, 26.15.10, 26.15.11, 26.15.12, 26.15.13, 26.15.14, 26.15.15, 26.15.16, 26.15.17, 26.15.18, 26.15.19, 26.15.20, 26.15.21, 26.15.22, 26.15.23, 26.15.24

7. STRUCTURAL DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH REQUIRE STRUCTURAL ENGINEERING BUT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL AT A LATER DATE. DEFERRED SUBMITTALS SHALL BE SUBMITTED TO AND APPROVED BY THE REPORTING, SEALING AND ENDORSEMENT OFFICIAL PRIOR TO INSTALLATION OF ANY NEW WORK.
8. ALL STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE COVERED BY EACH BUILDING OFFICIAL NOT DESIGNED BY THE SEALER AND NOT FOR COMPONENTS WHICH ARE SEALED AND SIGNED BY A SEALER. A REGISTERED DESIGN PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED WHO IS QUALIFIED TO PERFORM SAID WORK, OR A SEALER AUTHORIZED TO SEAL SUCH DRAWINGS AND SPECIFICATIONS, SHALL BE REQUIRED TO SEAL AND SIGN EACH DRAWING AND SPECIFICATION. THE SEALER SHALL BE REQUIRED TO SIGN AND SEAL EACH DRAWING AND SPECIFICATION THAT IS CERTIFIED BY AN APPROVED AGENCY IN WHICH THE AGENCY CERTIFIED THAT SEALING OF THE WORK DRAWINGS IS DONE (E.G., J.E.B. JOIST INSTITUTE IN ORDER TO OPEN WEB JOISTS). THE CONTRACTOR SHALL INCLUDE ALLOWANCES FOR ALL ITEMS REQUIRED BY THE DEFERRED SUBMITTALS TO FORM A COMPLETE SYSTEM. IF THE CONTRACTOR BELIEVES THERE IS MISSING INFORMATION IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE MISSING INFORMATION FROM THE ARCHITECT AND THE ARCHITECT SHALL BE REQUIRED TO PROVIDE THE MISSING INFORMATION TO THE CONTRACTOR.
9. THE SEALER SHALL SPECIFICALLY INDICATE IN A COVER PAGE AT THE FRONT OF THE WORK DRAWING THAT HE OR SHE USES IN RESPONSE CHARGE FOR THE DEFERRED SUBMITTALS AND THAT HE/HAVE REVIEWED THE WORK DRAWING TO ENSURE COMPLIANCE WITH THEIR DESIGN AND SPECIFICATIONS. PERFORMANCE SPECIFICATIONS HAVE BEEN REVIEWED FOR THE DEFERRED SUBMITTALS, HOWEVER THE SEAL IS SOLELY RESPONSIBLE FOR THE CALCULATION PACKAGE. ALL DEFERRED SUBMITTALS WITH (1) SYMBOL SHALL BE ACCOMPANIED BY A CALCULATION PACKAGE FOR ALL OF THE COMPONENTS ALONG WITH A SEALED LETTER TO THE SEALER ATTENDING THE PROJECT.
10. A TYPICAL STRUCTURAL ENGINEER HAVE REVIEWED THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, SHALL ANY CLARIFICATION QUESTIONS TO THE STRUCTURAL ENGINEER OR RECORD FOR REVIEW, PERFORMANCE ANALYSIS AND DESIGN ON THE SPECIAL STRUCTURAL ENGINEERING SCOPE PROVIDED THE INFORMATION TO THE FABRICATOR AND HAVE REVIEWED THE WORK DRAWINGS TO ENSURE THEY COMPLY WITH THE PROJECT REQUIREMENTS.
11. A. THE CALCULATION PACKAGE SHALL BE IN PDF FORMAT AND HAVE A COVER PAGE WITH BOOKMARKS AT EACH UNIQUE NUMBER. THE PDF MUST BE SEARCHABLE.
12. B. A SUPPLEMENTAL DRAWING OF SPECIAL INSPECTIONS: ALL DEFERRED SUBMITTALS WITH (1) SYMBOL, REQUIRE THE SEALER TO SUBMIT A SUPPLEMENTAL DRAWING OF SPECIAL INSPECTIONS ARE (1) SYMBOL 1. THE SPECIAL INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE END OF THE PROJECT. THE SPECIAL INSPECTIONS SHALL BE REVIEWED BY THE BUILDING OFFICIAL AND THE BUILDING OFFICIAL SHALL SIGN AND SEAL THE SPECIAL INSPECTIONS.
13. ALL STRUCTURAL DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE SEALER AND MARKED AS SUCH WITH EXCEPTS OR EXCEPTS NOTED. PRIOR TO SUBMITTING TO THE "FOR CONSTRUCTION" VECTOR TO THE AUTHORITY.
14. THE SEALER SHALL BE REQUIRED TO SIGN AND SEAL EACH DRAWING AND SPECIFICATION THAT IS CERTIFIED BY AN APPROVED AGENCY IN WHICH THE AGENCY CERTIFIED THAT SEALING OF THE WORK DRAWINGS IS DONE (E.G., J.E.B. JOIST INSTITUTE IN ORDER TO OPEN WEB JOISTS).
15. DEFERRED SUBMITTALS SHALL CLEARLY INDICATE ANY REQUIRED SPECIAL INSPECTIONS AND TESTING REQUIREMENTS EITHER BY THE BUILDING CODE OR BY THE SEALER FOR THEIR SCOPE OF WORK.
16. STRUCTURAL DEFERRED SUBMITTALS ON THIS PROJECT INCLUDE:
 - a. SUPPORT OF EXISTING AND NEW UTILITIES/UNDERGROUND
 - b. DUCTWORK WITH SYSTEM AND ANCHORAGE TO STRUCTURE

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED
VERIFY MATERIALS BELOW SHELLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	YES
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	X	YES
PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS	-	X	YES
VERIFY USE OF PROPER MATERIALS, DROUGHTS AND FILL THICKNESS DURING PLACING AND COMPACTING OF COMPACTED FILL. CONTINUOUS VERIFICATION OF A MINIMUM OF 10% TEST EVERY 2000 SF, WITH A MINIMUM OF 10% TEST PER FILL LAYER. WHEN REQUIRED BY THE INSPECTOR FOR VERIFICATION OF PROPER GEOTECHNICAL REPORT AND/OR THE SOILS ENGINEER	X	-	YES

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED
OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-	YES
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY, RECORD CONCRETE OR GROUT VOLUMES.			YES
FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH CONCRETE SPECIAL INSPECTIONS.	-	-	YES

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED
AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, FINAL GRADES SHALL BE VERIFIED TO DOCUMENT REQUIRED DRAINAGE		X	YES
AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, DOWNSPOUTS SHALL BE INSPECTED TO CORROSION PERFORMANCE		X	YES
GRADES AROUND THE STRUCTURE SHALL BE PERIODICALLY INSPECTED AND ADJUSTED AS PART OF THE BIENNIAL MAINTENANCE PROGRAM	-	X	YES
PLUMBING LEAK HYDROSTATIC TEST PERFORMED BY A LICENSED PLUMBER. TEST TO OCCUR AFTER ROOFING INSTALL		X	YES
WHERE PAVING/PAVEMENT AHEAD OF THE FOUNDATION, A MAINTENANCE PROGRAM SHALL BE ESTABLISHED TO EFFECTIVELY SEAL AND MAINTAIN JOINTS AND PREVENT SURFACE WATER INFILTRATION.		X	YES

[illegible]

Consultant:

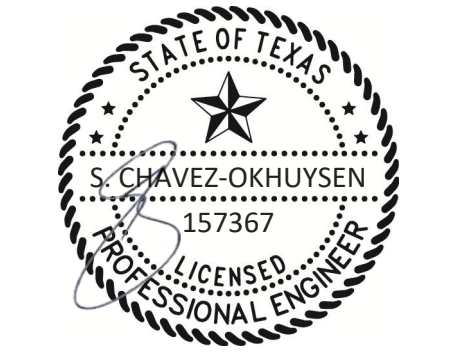
DUDLEY

GEOTECHNICAL | STRUCTURAL | ENVIRONMENTAL

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City of Brenham Henderson
Park Basketball Court
Pavilion
BRENHAM, TEXAS

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07/10/2026

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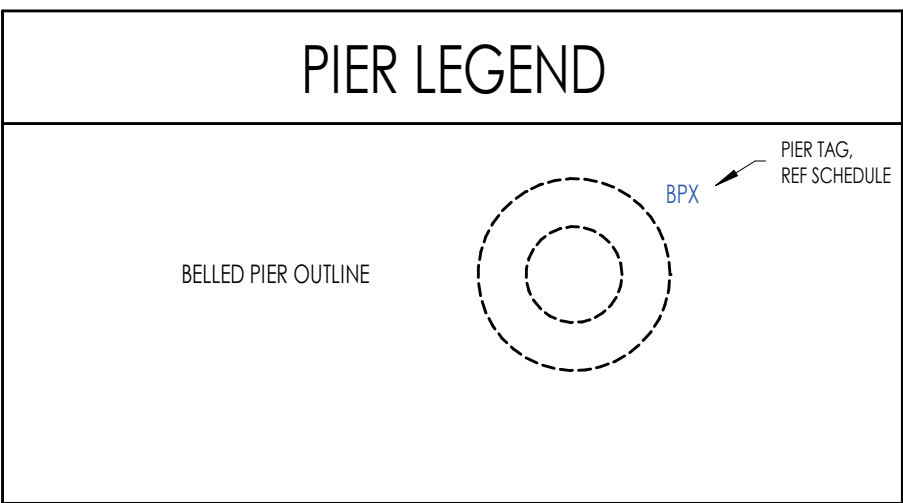
STATEMENT OF
SPECIAL
INSPECTIONS

S0.3

.....OF.....

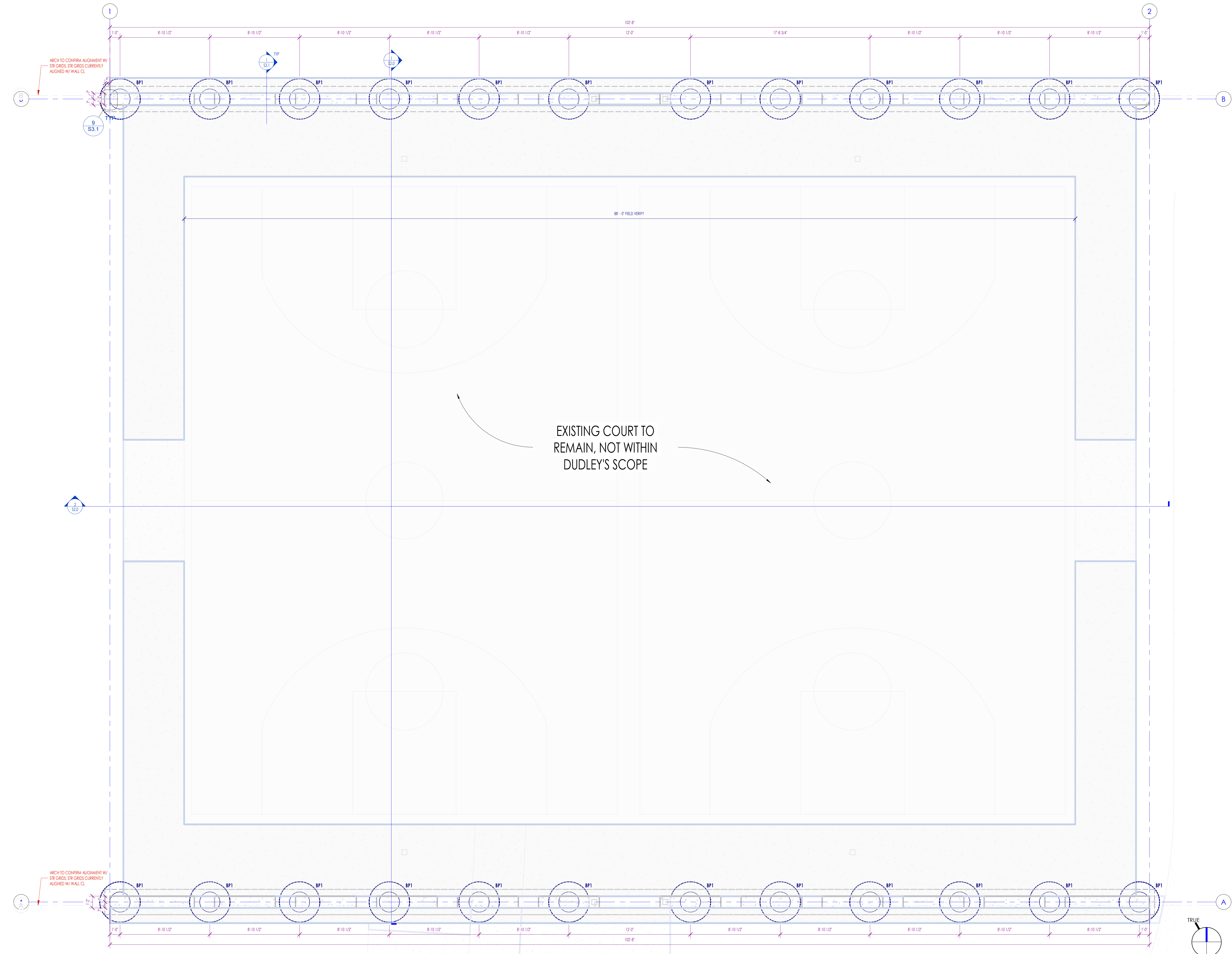
STRUCTURAL REFERENCE SHEETS

CONCRETE WALL PLAN: [S1.1](#)
DEEP FOUNDATION DETAILS: [S3.2](#)



PIER SCHEDULE	
PIER TAG	SHAFT DIAMETER/ BELL DIAMETER
BP1	24" / 48"

- PIER SCHEDULE NOTES:**
- ALL PIERS SHALL BE EMBEDDED 10'-0" BELOW EXISTING GRADE.
 - ALL PIERS ARE TYPE P1, UNO.
 - THE TOP OF PIER IS EQUAL TO BOTTOM OF DEEPEST BEAM, WALL, RUN-IN, ETC. THAT IS SUPPORTED BY THE PIER.
A. THE CONTRACTOR SHALL COORDINATE BETWEEN THE LATEST CIVIL GRADING PLANS AND STRUCTURAL DRAWINGS TO DETERMINE THE TOTAL LENGTH OF THE PIERS AND THEIR REINFORCEMENT. THE COORDINATION SHALL BE DONE PRIOR TO ISSUING REBAR PLACING/SHOP DRAWINGS FOR THE PIERS. SHOP DRAWINGS SUBMITTED WITHOUT THIS COORDINATION WILL BE RETURNED AS "REVISE & RESUBMIT".
 - FOR TYPICAL PIER DETAIL REFERENCE: [S3.2](#)
 - UNLESS NOTED OTHERWISE, THE CENTERLINE OF PIERS SHALL BE LOCATED AT THE CENTER/INTERSECTING LINES OF SUPPORTED ELEMENTS. IF UNCLEAR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
 - IN ACCORDANCE WITH STANDARD GEOTECHNICAL BEST PRACTICES, A TEST PIER OUTSIDE THE EXTENS OF THE STRUCTURE IS RECOMMENDED TO DETERMINE APPROPRIATE INSTALLATION PROCEDURES AND TO ENSURE SUCCESSFUL PIER INSTALLATION. CONTRACTOR TO VERIFY WITH THE PROJECT GEOTECHNICAL ENGINEER FOR THE RECOMMENDATIONS FOR A TEST PIER.



PLAN
NOTES
1 CONCRETE WALL PIER PLAN
1/4" = 1'-0"

Project:	25-00384
Release Date:	07/10/2026
Revisions:	No. Description
	Date

Consultant:

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Park Basketball Court
Pavilion

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LICENSED PROFESSIONAL ENGINEER
07/10/2026

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DEEP FOUNDATIONS
PLAN

S1.0
.....OF.....

STRUCTURAL REFERENCE SHEETS

CONCRETE DETAILS: S3.0

CONCRETE WALL DETAILS: S3.1

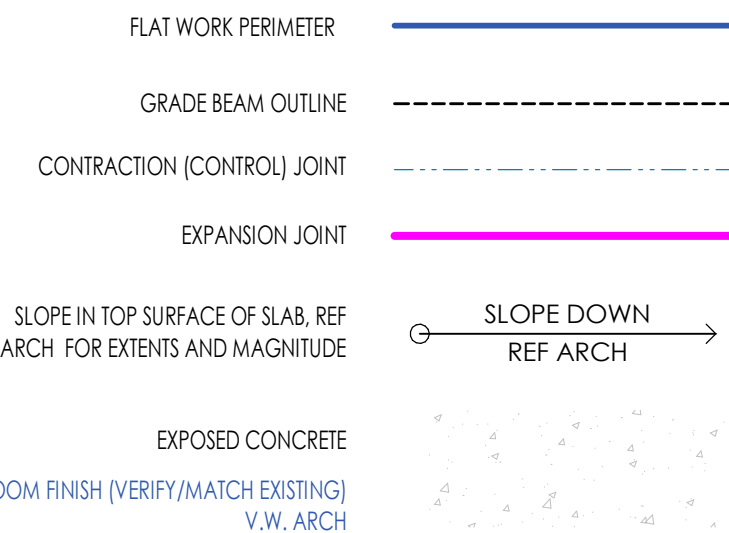
PIER DETAILS: S3.2

FLATWORK/ SIDWALK DETAILS: S4.0

PLAN NOTES

1. VERIFY ALL EDGE OF SLAB, LEDGE, ETC. DIMENSIONS WITH FINAL ARCHITECTURE PLANS.
2. FORM DIMENSIONS (SLAB DIPS, SLOPES, ETC.) ARE SHOWN AS AN AD TO THE CONTRACTOR ONLY.
3. VERIFY EXACT DIMENSIONS AND LOCATION WITH ARCHITECTURE.
4. DIMENSIONS ARE TO CL OF GRADE BEAMS OR EDGE OF SLAB UNLESS NOTED OTHERWISE.
5. CONTRACTION (CONTROL) AND EXPANSION JOINTS ARE REQUIRED TO MITIGATE UNCONTROLLED CRACKS IN THE SLAB WORK. FOR THE REQUIRED MAXIMUM JOINT SPACING, SEE PLAN AND ADDITIONAL CRITERIA, REF DETAIL 1 / S4.0.
6. FOR FLATWORK OR FINISHING ABUTTING EXISTING FOUNDATION, REF DETAIL 3 / S4.0.
7. ANCHOR BOLT / HOLD-DOWNS, REFERENCE QUOTEKIT BUT DEFERRED SUBMITTAL FOR ALL ANCHOR BOLT AND HOLD-DOWN SIZES AND SPACING/LOCATION REQUIREMENTS.
8. CONSTRUCTION JOINTS (COLD JOINTS) ARE ONLY WHERE SPECIFICALLY SHOWN ON THE PLANS.
9. REVIEW AND/OR ANALYSIS OF EQUIPMENT, MATERIAL, STOCKPILING, ETC. TO BE PLACED ON THE STRUCTURE DURING CONSTRUCTION ARE NOT WITHIN THE PERMISSIBLE SCOPE OF SERVICES.
10. CONSTRUCTION ENGINEERING SERVICES CAN BE PROVIDED AS AN ADDITIONAL SERVICE OR THE CONTRACTOR CAN ENGAGE A SPECIALTY STRUCTURAL ENGINEER TO CONDUCT THE REVIEW/ANALYSIS. THE STRUCTURE HAS ONLY BEEN DESIGNED FOR THE LOADS INDICATED IN THE DESIGN CRITERIA SECTION AND/OR LIVE LOAD PLANS OF THESE GENERAL NOTES. ANY VEHICLES ON EXPOSED CONCRETE SLABS SHALL HAVE NO HAWKING/TIRES OR TIRE COVERS TO PREVENT MARKING ON THE SLAB.

PLAN LEGEND



CAST-IN-PLACE CONCRETE WALL PLAN NOTES:

1. REFER TO ELEVATION FOR LOCATIONS OF CONTRACTION (CONTROL) JOINTS REFERENCE DETAIL 5 / S3.1
2. FOR VERTICAL CONSTRUCTION JOINTS IN THE WALL, REF DETAIL 3 / S3.1
3. FOR END TERMINATION OF REINFORCEMENT REFERENCE DETAIL 4 / S3.1

GRADE BEAM & FLATWORK SCHEDULE						
FOUNDATION TYPE:		DRILLED PIERS, GRADE BEAM, & FLATWORK				
SLAB THICKNESS:		4"				
SLAB REINFORCEMENT:		#3 @ 18" O.C.E.W.				
DESIGN METHOD:		CITY OF BRENHAM PUBLIC INFRASTRUCTURE DESIGN MANUAL				
VAPOR RETARDER:		NOT REQUIRED				
BEAM ID	DESCRIPTION	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	STIRRUPS ¹
B-1	TYPICAL BEAM	30"	30"	(3) - #6	(3) - #6	4@3" @ 12"

- NOTES:**
1. BEAMS ARE TYPE B1 UNO.
 2. LOCATE THE FIRST STIRRUP A MINIMUM OF 3" FROM FACE OF SUPPORT.
 3. FOR VERTICAL MOISTURE BARRIERS THE DEPTH PROVIDED ARE AS FOLLOWS: (BEAM CASE) DEPTH / MINIMUM EMBEDED BELOW FINAL GRADE.
 4. N/A - NOT REQUIRED.
 5. ALLOWABLE GRADE BEAM SPICE LOCATIONS - REFER TO DETAIL 2 / S3.0.
 6. TOP BARS: MIDDLE THIRD BETWEEN PIERS.
 7. BOTTOM BARS: DIRECTLY OVER GRADE BEAMS (SPACED). ONE BAR MAY BE SPICED PER PIER.
 8. FACE BARS: MIDDLE THIRD BETWEEN PIERS.
 9. STIRRUP NOTES:
 - A. ALL STIRRUPS SHALL BE NO. 4 BARS.
 - B. STIRRUP SPACING (MIN. 8" MAX. 18") INDICATE STIRRUPS AT A SPACING OF 8" STARTING FROM EACH SIDE OF THE BEAM SUPPORT WITH THE REMAINDER OF THE BEAM WITH STIRRUPS AT MAX 18" SPACING.
- REFERENCE DRAWINGS:**
- 1. FILE NAME: BRENHAM PARK PAVILION
 - 2. DATE OF FILE: 06/20/2024
 - 3. FILE AUTHOR: BBAX ARCHITECTS

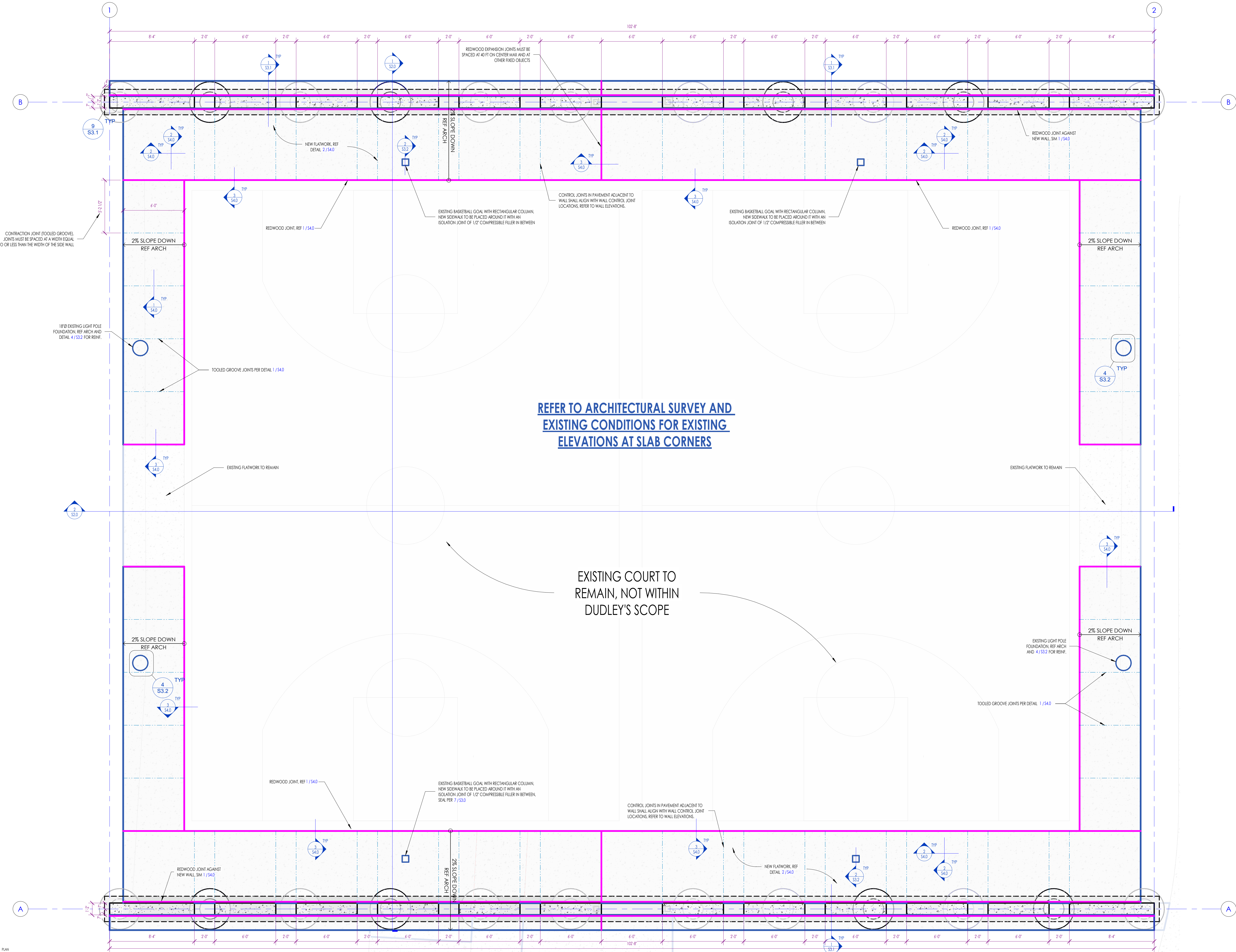
SUBGRADE, BUILDING PAD, DRAINAGE, UTILITIES AND LANDSCAPING NOTES (PER GEOTECHNICAL REPORT):

THE EARTHWORK AND BUILDING PAD NOTES CONTAINED BELOW ARE INTENDED TO PROVIDE A SUMMARY OF THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL REVIEW AND BE THOROUGHLY FAMILIAR WITH ALL RECOMMENDATIONS OF THE REPORT. OMISSIONS OR RESTATEMENTS DO NOT RELIEVE THE CONTRACTOR FROM FULL COMPLIANCE WITH THE GEOTECHNICAL REPORT. THE FOUNDATION DESIGN ASSUMES THAT THE FOUNDATION IS CONSTRUCTED WHEN THE SOIL AT THE SITE IS NEAR OR AT EQUILIBRIUM MOISTURE CONTENT. IF THE SITE IS CONSTRUCTED AT A TIME WHEN THE SITE MAY BE IN A CONDITION OF EXTREME DRYNESS/WEARNESS FROM A PROLONGED DRY/WET PERIOD, THEN THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER FOR RECOMMENDATION TO ADJUST THE MOISTURE CONTENT IN THE BUILDING PAD TO ACHIEVE EQUILIBRIUM.

1. **SUBGRADE IMPROVEMENT:**
 - A. PROVIDE ALL FILL NECESSARY TO MEET THE REQUIRED GRADING AND DRAINAGE SLOPES AND/OR TO REPLACE UNSUITABLE SOILS WITH SELECT FILL UP TO THE TOP OF BUILDING PAD ELEVATION, BUT NOT LESS THAN 1 FOOT THICK. SELECT FILL SHALL BE PLACED IN A UNIFORM THICKNESS, UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
2. **DRAINAGE**
 - A. ROOF DRAINAGE SHALL BE COLLECTED BY A SYSTEM OF GUTTERS & DOWNSPOUTS OR PIPING SYSTEM (INTERIOR DRAINS) AND DISCHARGED A MINIMUM DISTANCE OF 10' AWAY FROM THE FOUNDATION TO AN AREA WITH POSITIVE DRAINAGE AWAY FROM THE FOUNDATION, PREFERABLY TO A PAVED SURFACE WHERE WATER CAN DRAIN RAPIDLY AWAY FROM THE STRUCTURE. SIDEWALKS, PARKING AREAS, BUILDING ACCESS DRIVES, AND THE GENERAL GROUND SURFACE SHOULD BE SLOPED SO THAT WATER WILL DRAIN AWAY FROM THE STRUCTURE. WATER SHOULD NOT BE ALLOWED TO POND NEAR THE FOUNDATION(S).
 - B. FINAL GRADES SHALL HAVE A MINIMUM OF 2% SLOPE FOR THE FIRST 10 FEET AWAY FROM THE FOUNDATION IN ALL DIRECTIONS, WITH THE EXCEPTIONS BELOW. (NOTE: THIS SLOPE SHALL OCCUR IN THE SELECT FILL OR IN-SITU SOIL, MERELY SLOPING TOPSOIL IS NOT SUFFICIENT, SINCE THIS STRATA IS TYPICALLY PERVIOUS AND COULD LEAD TO A PERCHED GROUNDWATER CONDITION) REFER TO CIVIL DRAWINGS FOR ALL DRAINAGE REQUIREMENTS.
 - a. EXCEPTIONS:
 - WHERE LOT LINES, WALLS, SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT 6 INCHES OF FALL WITHIN 10 FEET, A 2% SLOPE SHALL BE PROVIDED TO EITHER DRAINS OR SWALES TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE.
 - 1. SWALES USE FOR THIS PURPOSE SHALL BE SLOPED NOT LESS THAN 2% WHERE LOCATED WITHIN 10' OF THE BUILDING FOUNDATION.
 - IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING.
3. **LANDSCAPING**
 - A. DO NOT USE METAL EDGING OR OTHER DAMMING DEVICES WITHIN FIVE FEET OF THE FOUNDATION. THE ROOTS OF TREES AND LARGE PLANTS REMOVE LARGE QUANTITIES OF WATER FROM THE SOIL. IF THESE TREES AND SHRUBS ARE NEAR THE FOUNDATION AND IF SUFFICIENT WATER IS NOT SUPPLIED, THE SOILS MAY SHRINK IF EXPANSIVE, CAUSING SUBSIDENCE IN THE FOUNDATION. DURING DRY PERIODS, ENOUGH WATER SHOULD BE SUPPLIED TO TREES TO MINIMIZE SHRINKING OF EXPANSIVE SOILS AROUND THEM. MOST OF THE IRRIGATION WATER SHOULD BE APPLIED WELL AWAY FROM THE FOUNDATION TO ATTRACT THE TREE ROOTS IN THAT DIRECTION. WHEN TREES MATURE TO THE POINT OF SHADING THE ENTIRE LOT, REGULAR PRUNING WILL BE NEEDED TO REDUCE THEIR WATER UPTAKE. LANDSCAPING (PLANTS, SHRUBS, FLOWERS, ETC.) SHOULD NOT TRAP WATER AGAINST THE FOUNDATION. PROVIDE A SLOPE IN SOILS BELOW LANDSCAPE BEDDING AND IN THE BEDDING AWAY FROM THE FOUNDATION. ALTERNATIVELY, PROVIDE SWALES AROUND AND THROUGH THE LANDSCAPING TO DRAIN WATER AWAY. PROVIDE UNIFORM GROUND COVER AROUND THE FOUNDATION. THIS WILL HELP KEEP THE MOISTURE EVAPORATION RATE UNIFORM. IN AREAS THAT ARE NOT PLANTED, USE MULCH EXTENDED TO THE GROUND COVER AT LEAST FIVE FEET FROM THE FOUNDATION.
 - B. ANY/ALL TREES SHALL BE PLANTED AT A MINIMUM DISTANCE EQUIVALENT TO THE HEIGHT OF THE TREE OR THE DRIP LINE PLUS 10 FEET WHICHEVER IS GREATER.
4. **UTILITIES**
 - A. CONNECTIONS FOR UTILITIES (PLUMBING, ELECTRICAL, GAS, ETC.) THAT ARE UNDERNEATH, GO THROUGH OR ARE ATTACHED TO THE FOUNDATION SHALL HAVE BE FLEXIBLE TO ACCOMMODATE FOUNDATION MOVEMENT OF AT LEAST 2". ALL DRAINAGE PIPING, AND GENERAL PLUMBING SYSTEMS ASSOCIATED WITH THE FOUNDATION OR IN PROXIMITY TO THE FOUNDATION SHALL BE LEAK TESTED FOLLOWING INSTALLATION AND ON AN ANNUAL BASIS.
5. **SITE PREPARATION**
 - A. FOLLOW ALL REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT. NOTIFY THE GEOTECHNICAL ENGINEER FOR ALL EARTHWORK OPERATIONS.
 - B. **SELECT FILL SOIL EXTENTS:** THE SELECT FILL SOILS...
 - SHALL BE LIMITED TO THE FOOTPRINT OF THE FOUNDATION EXCEPT WHERE THERE IS IMPERVIOUS COVER (PAVEMENT, FLATWORK, SIDEWALK, ETC.) ABUTTING THE FOUNDATION IN WHICH CASE IT SHALL BE EXTENDED OUTSIDE THE FOUNDATION FOOTPRINT (S) OR TO THE EXTENTS OF THE IMPERVIOUS COVER, WHICHEVER IS LESS. IF OVERBUILD OF SELECT FILL IS REQUIRED WHERE THIS IS NOT IMPERVIOUS COVER, THEN THE CONTRACTOR SHALL INSTALL HORIZONTAL SLAT CAP TO COVER THE FILL OVERBUILD.
 - C. THE CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR SUBGRADE STABILIZATION.
 - D. THE FLOOR SLAB SHOULD BE PLACED AS SOON AS POSSIBLE AFTER THE BUILDING PAD IS PREPARED. IF THE BUILDING PAD IS LEFT EXPOSED TO RAINFALL, PERCHED GROUNDWATER CONDITIONS MAY DEVELOP WHICH WILL UNDERMINE THE INTEGRITY OF THE FLOOR SLAB. ALL REMOVED WATER, CABLE, ELECTRICAL SHOULD BE PROPERLY BACKFILLED AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITIES. POSITIVE DRAINAGE SHOULD BE MAINTAINED ACROSS THE ENTIRE BUILDING PAD.
6. **STRUCTURAL FILL (SELECT FILL)**
 - A. LOW SWELL POTENTIAL SELECT FILL SHOULD CONSIST OF COHESIVE SOILS FREE OF ORGANICS OR OTHER DELETERIOUS MATERIALS AND SHOULD HAVE A PLASTICITY INDEX OF 15 TO 30 INCLUSIVE. SANDY CLAYS ARE RECOMMENDED FOR USE. THE LOW SWELL POTENTIAL SELECT FILL SHOULD BE CLEANED AND FREE OF ORGANIC MATTER OR OTHER DELETERIOUS MATERIAL. THE FILL SHOULD BE PLACED IN MAXIMUM 6 INCH LAYER LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR). THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHOULD BE ONE TO TWO PERCENT OF THE OPTIMUM VALUE AS DEFINED BY ASTM D 698. THE REFERENCED MOISTURE CONTENT AND DENSITY SHOULD BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
7. **SOIL MOISTURE**
 - A. EXPANSIVE SOILS HEAVE AND SUBSIDE DUE TO CHANGES IN MOISTURE CONTENT. CHANGES IN MOISTURE CONTENT CAN CAUSE VERY LARGE CHANGES IN SOIL VOLUME WHEN GOING FROM A DRY TO A SATURATED CONDITION, AND VICE VERSA. THIS MOVEMENT DOES NOT MEAN THE FOUNDATION IS IMPROPERLY DESIGNED OR THAT IT HAS FAILED. THE FOUNDATION DESIGN ENGINEER CANNOT CONTROL THE MOISTURE CONTENT OF THE SOIL, BUT OFTEN THE OWNER/TENANT CAN UNIFORMITY IS THE KEY. UNIFORM MOISTURE CONTENT IN THE SOIL UNIFORMITY MAINTAINED IN ALL AREAS AROUND THE FOUNDATION. IF CHANGES IN MOISTURE CONTENT ARE UNIFORM, THEN MOVEMENT OF THE FOUNDATION WILL BE UNIFORM AND LESS DISTRESS WILL BE CREATED IN THE STRUCTURE. IF CHANGES IN MOISTURE CONTENT ARE NON-UNIFORM, THEN THERE MAY BE DIFFERENTIAL MOVEMENT IN THE FOUNDATION. DIFFERENTIAL MOVEMENT CAN CAUSE GRABBY (AND MORE OBVIOUS) DISTRESS IN THE STRUCTURE. LEAKING POOLS, LEAKING PLUMBING LINES, LEAKING DRAINS, DRIPPING FAUCETS, DRIPPING AIR CONDITIONING CONDENSATE LINES, AND MISDIRECTED WATER FROM CLOGGED AND BROKEN GUTTERS AND DOWNSPOUTS CAN CAUSE LOCAL HIGH MOISTURE CONTENTS THAT CAN RESULT IN DIFFERENTIAL MOVEMENT IN AREAS OF EXPANSIVE SOILS. THESE CONDITIONS SHOULD BE REMEDIATED AS SOON AS POSSIBLE. TREES IN OR NEAR THE FOOTPRINT OF THE FOUNDATION, EITHER REMOVED OR PLANTED DURING CONSTRUCTION, CAUSE THE MAJORITY OF FOUNDATION PROBLEMS REQUIRING REPAIR IN THIS AREA. TREES REMOVED DURING CONSTRUCTION TEND TO CAUSE HEAVE OF EXPANSIVE SOILS DURING THE FIRST FEW YEARS. WITH INITIAL DISTRESS OFTEN EVIDENT AT THE TIME OF MOVEMENT, TREES PLANTED DURING OR AFTER CONSTRUCTION TEND TO CAUSE SUBSIDENCE OF EXPANSIVE SOILS. HOWEVER, SIGNIFICANT SUBSIDENCE DISTRESS WILL USUALLY NOT OCCUR FOR TEN TO TWENTY YEARS AS THE TREES MATURE.
8. **CLIMATE**
 - A. DURING PERIODS OF DRY WEATHER, THE SOIL AROUND THE FOUNDATION SHOULD BE IRRIGATED IF THE BUILDING IS LOCATED IN AN AREA WHERE EXPANSIVE SOILS ARE KNOWN TO OCCUR. THE MOST COMMONLY USED IRRIGATION SYSTEM IS ABOVEGROUND TIMED SPRINKLERS WITH A MANUAL OVERRIDE SO THEY CAN BE TURNED OFF IN RAINY WEATHER. AN AUTOMATIC BELOWGROUND IRRIGATION SYSTEM THAT SENSES THE MOISTURE CONTENT OF THE SOIL MAY ALSO BE USED. TEND TO KEEP THE IRRIGATION SYSTEM SET ON "MANUAL" AND ONLY USE IT IN DRIER PERIODS WHEN WILTING OF THE LAWN GRASSES AND OTHER VEGETATION OCCURS. THE IRRIGATION SHOULD BE DONE AT LEAST ONE TO TWO FEET AWAY FROM THE FOUNDATION, AND THEN LIGHTLY SO THAT TREE ROOTS ARE NOT ATTRACTED THERE. DO NOT ALLOW SPRINKLERS TO SPRAY WATER AGAINST THE STRUCTURE. IN EXTENDED DRY PERIODS, SHOULD THE SOIL CRACK AND PULL AWAY FROM THE FOUNDATION, DO NOT WATER DIRECTLY INTO THE GAP.

REFER TO ARCHITECTURAL SURVEY AND EXISTING CONDITIONS FOR EXISTING ELEVATIONS AT SLAB CORNERS

EXISTING COURT TO REMAIN, NOT WITHIN DUDLEY'S SCOPE



CONCRETE WALL & PAVEMENT PLAN
1/4" = 1'-0"

Project:	25-00384
Release Date:	07/10/2026
Revisions:	No. Description
	Date

Consultant:

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Park Basketball Court
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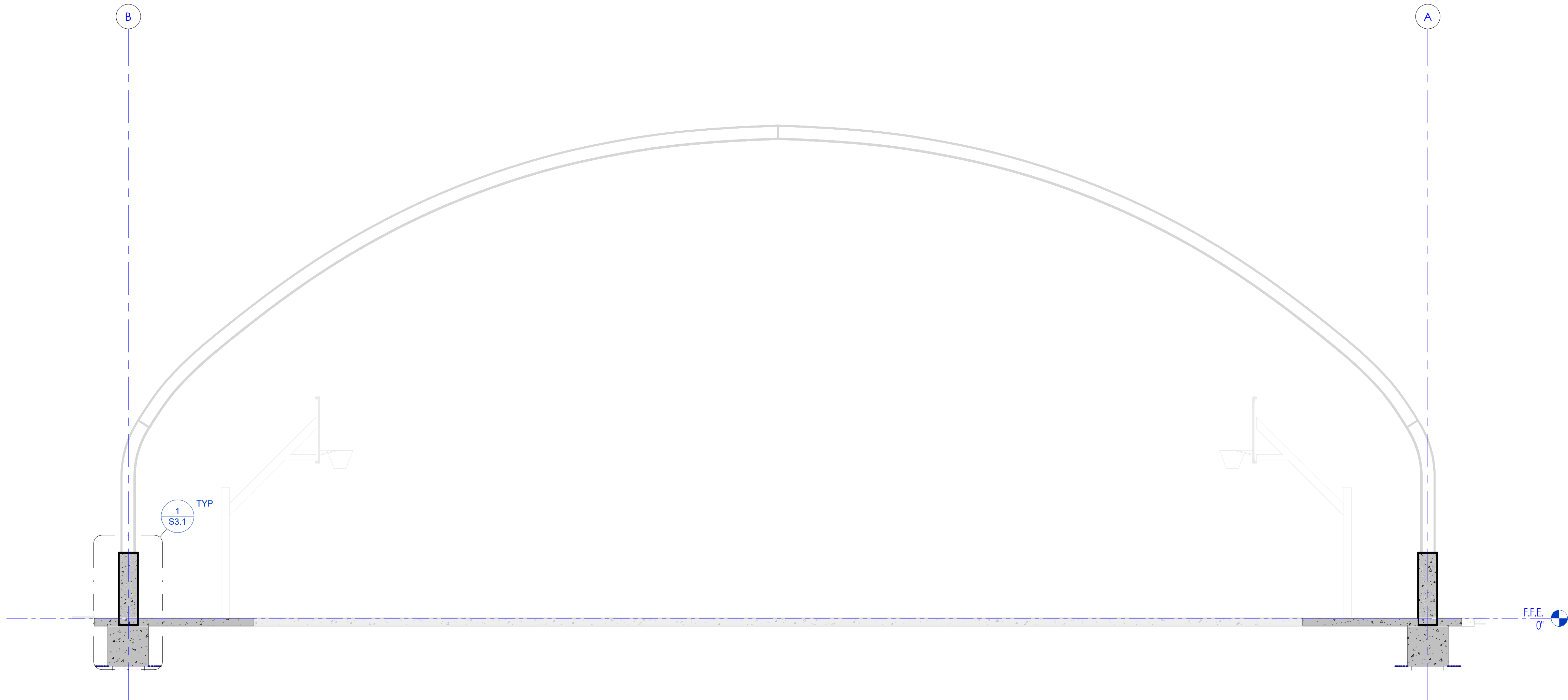
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CONCRETE WALL
PLAN

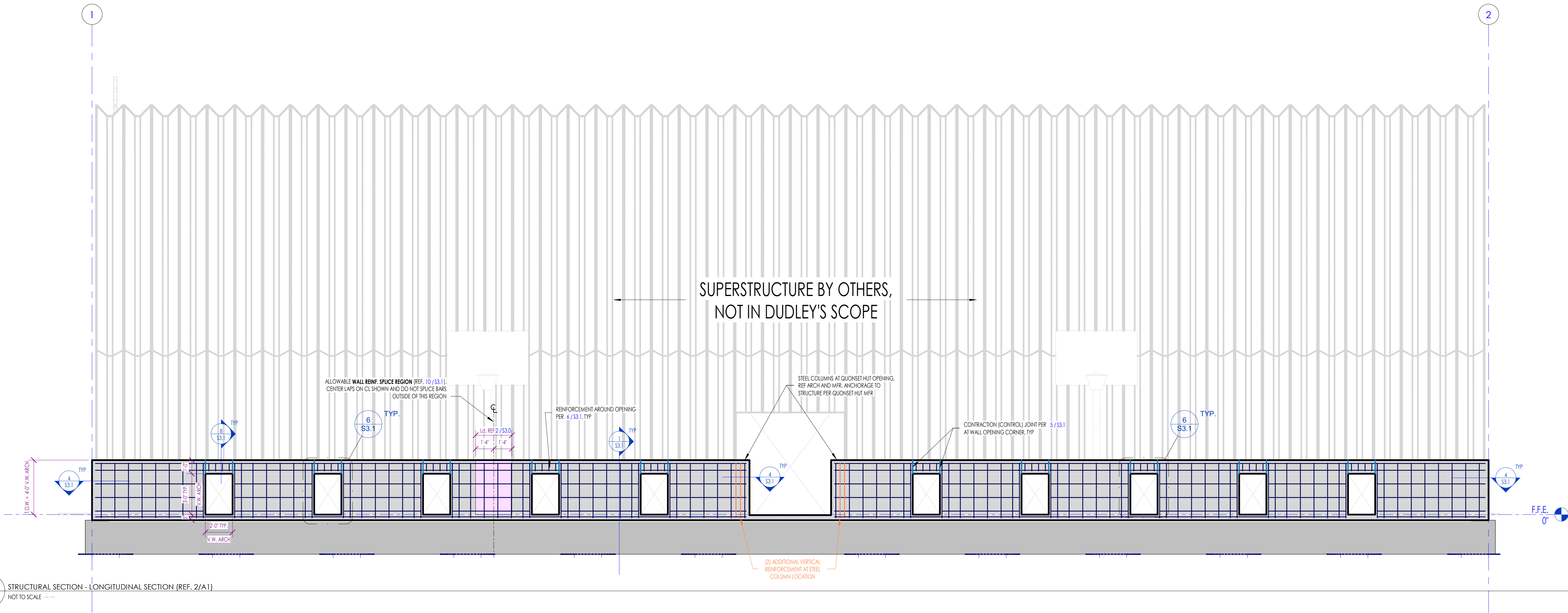
S1.1

.....OF.....

1 S2.0
1 S1.0
STRUCTURAL SECTION - CROSS SECTION THRU FULL HEIGHT WALL (REF. 1/A)
NOT TO SCALE



2 S2.0
1 S1.0
STRUCTURAL SECTION - LONGITUDINAL SECTION (REF. 2/A1)
NOT TO SCALE



Project:	25-00384		
Release Date:	07/10/2026		
Revisions:	No.	Description	Date

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Park Basketball Court
Pavilion

BRENNHAM, TEXAS

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CONCRETE WALL
SECTIONS

S2.0

.....OF.....

NOTES:

- CASE 1: APPLIES TO REINFORCEMENT THAT HAS LESS THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. ALL VERTICAL REINFORCEMENT FALLS UNDER CASE 1. BEAM BOTTOM BARS FALL UNDER CASE 1.
- CASE 2: APPLIES TO REINFORCEMENT THAT HAS MORE THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. BEAM TOP BARS FALL UNDER CASE 2.
- CLEAR SPACING OF BARS BEING DEVELOPED MUST BE AT LEAST:
- 20% DIA. OF BAR & CLEAR COVER AT LEAST; OR, INCREASE DEVELOPMENT LENGTH BY 1.5 F OTHERWISE.
- FOR EPoxy COATED REINFORCEMENT INCREASE THE LENGTH BY A FACTOR OF 1.2.
- FOR FC IN BETWEEN THOSE SPECIFIED ABOVE, THE CONTRACTION SHALL USE THE LOWER VALUE. E.G. (SPECIFIED FC = 3,500, THEN USE LENGTHS FOR 3,000 PSI)

STRAIGHT BAR

STD 90° HOOK

STD 180° HOOK

NOTES:

- THE HOOK SHALL BE LOCATED WITHIN THE COMPRESSED CORE OF A COLUMN OR BOUNDARY ELEMENT, WITH THE HOOK BENT INTO THE JOINT.
- THE DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY A FACTOR OF 1.2 FOR EPoxy COATED REINFORCING BARS.
- FOR FC IN BETWEEN THOSE SPECIFIED ABOVE, THE CONTRACTION SHALL USE THE LOWER VALUE. E.G. (SPECIFIED FC = 3,500, THEN USE LENGTHS FOR 3,000 PSI)

DEVELOPMENT LENGTH, L_d IS THE BONDED LENGTH REQUIRED TO ACHIEVE THE DESIGN STRENGTH OF A BAR (TO PRECLUDE THE BAR FROM SLIPPING OUT OF THE CONCRETE)

TYPICAL TENSION DEVELOPMENT LENGTH - NORMAL WEIGHT CONCRETE

NOT TO SCALE

NOTES:

1. CASE 1 APPLIES TO REINFORCEMENT THAT HAS LESS THAN 17% OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. ALL VERTICAL REINFORCEMENT FALLS UNDER CASE 1. BEAM BOTTOM BARS FALL UNDER CASE 1.
2. CASE 2 APPLIES TO REINFORCEMENT THAT HAS MORE THAN 17% OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. BEAM TOP BARS FALL UNDER CASE 2.
3. CLEAR SPACING OF CASE 2 REINFORCEMENT MUST BE AT LEAST 3X DIA OF BAR & CLEAR COVER ON EACH SIDE INCREASE DEVELOPMENT LENGTH BY 1.3 OTHERWISE.
4. FOR EPOXY COATED REINFORCEMENT INCREASE THE LENGTH BY A FACTOR OF 1.2.
5. ADDITIONAL BARS HAVE TO BE SPICED SHALL BE IN CONTACT AND TIED TOGETHER WHERE POSSIBLE. WHERE CONTACT IS NOT POSSIBLE, THE MAXIMUM OFFSET SHALL BE ONE-FIFTH THE REQUIRED LAP SPICE LENGTH OR 6", WHICHEVER IS LESS.
6. UNLESS NOTED OTHERWISE, FOR BEAMS AND SLABS WITH A TOP AND BOTTOM ROW OF REINFORCEMENT, TOP BARS SHALL BE SPICED WITHIN THE MIDDLE THIRD OF THE SPAN AND BOTTOM BARS SHALL BE SPICED IN THE OUTER THIRD OF THE SPAN, REFER TO TYPICAL DETAILS FOR SKEWER REINFORCEMENT BETWEEN SPICES LOCATIONS.
7. WHERE SPICING BARS OF DIFFERENT SIZES, THE LAP LENGTH SHALL MATCH THAT REQUIRED FOR THE LARGER BAR.
8. FOR 1c IN BETWEEN THOSE SPECIFIED ABOVE, THE CONTRACTOR SHALL USE THE LOWER VALUE. E.G. (SPECIFIED FC = 3,500, THEN USE LENGTHS FOR 3,000 PSI)

STD 90° HOOK

STD 180° HOOK

STD TYPICAL STANDARD END HOOK DIMENSIONS
NOT TO SCALE

The diagram illustrates the reinforcement details for pipe sleeves in two scenarios:

- PLAN ($A > 3'$)**: This plan view shows a rectangular opening with a width of W and a length of L . The opening is centered within a larger rectangular area. The distance from the centerline of the opening to the edge of the slab is $10W/2$. The total width of the slab is $10W/2 + 7.2"$. The reinforcement is shown as a grid of bars with cross-sections indicated by circles with an 'X' inside. A note indicates that the reinforcement is to be referred to the next page.
- PLAN ($A \leq 3'$)**: This plan view shows a rectangular opening with a width of W and a length of L . The opening is centered within a larger rectangular area. The distance from the centerline of the opening to the edge of the slab is $10W/2$. The total width of the slab is $10W/2 + 7.2"$. The reinforcement is shown as a grid of bars with cross-sections indicated by circles with an 'X' inside. A note indicates that the reinforcement is to be referred to the next page.

5. PROVIDE 1/2" MINIMUM ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATION AND USE OF SLEEVES
6. ISOLATED PIPE SLEEVES THAT ARE SMALLER THAN 5" AND DO NOT INTERRUPT REINFORCEMENT DO NOT REQUIRE THE USE OF THE IDEAL DESIGN
7. THE IDEAL SHOULD NOT BE USED FOR OPENING GROUPS WITH DIAMETERS LARGER THAN 12" CONSULT STRUCTURAL ENGINEER FOR TREATING OF SUCH CONDITIONS
8. PROVIDE HALF OF INTERRUPTED REINFORCEMENT PLUS ONE ADDITIONAL BAR OF SAME SIZE WITH EACH SIDE OF EQUIVALENT RECTANGULAR OPENING. PROVIDE A MINIMUM OF 1-#4 TOP AND BOTTOM EACH OF OPENING

[illegible]

<u>DEFINITIONS</u>	
da =	DIAMETER OF ANCHOR (IN)
dc =	DIAMETER OF HOLE IN CONCRETE + DIAMETER OF DRILL BIT (IN)
ds =	DIAMETER OF HOLE IN STEEL ATTACHMENT (IN)
La _{min} =	MINIMUM LENGTH OF ANCHOR (IN)
Lo =	ORDERED LENGTH OF ANCHOR (IN)
h _{nom} =	NOMINAL EMBEDMENT DEPTH (IN)
hc =	DEPTH OF HOLE IN CONCRETE (IN)
ht _s =	THICKNESS OF STEEL ATTACHMENT (IN)
hw _{avg} =	THICKNESS OF WAGNER (IN)
h _{wt} =	HEIGHT OF HEX NUT (IN)
OVERLAP =	1/4" UNLESS NOTED OTHERWISE

530 TYPICAL SUBGRADE AND VAPOR RETARDER PREPARATION
NOT TO SCALE

4. JOINT MAINTENANCE - INSPECT SEALANT AT JOINTS ANNUALLY, PERFORMING SPOT REPAIRS FOR MINOR ISSUES WITH COMPATIBLE SEALANT PER MANUFACTURER DATA, OR FULL REPLACEMENT (TYPICALLY 5-10 YEARS) IF EXTENSIVE DEGRADATION OCCURS.

7 S3.0 TYPICAL JOINT SEALANT (CAULK) DETAIL
NOT TO SCALE

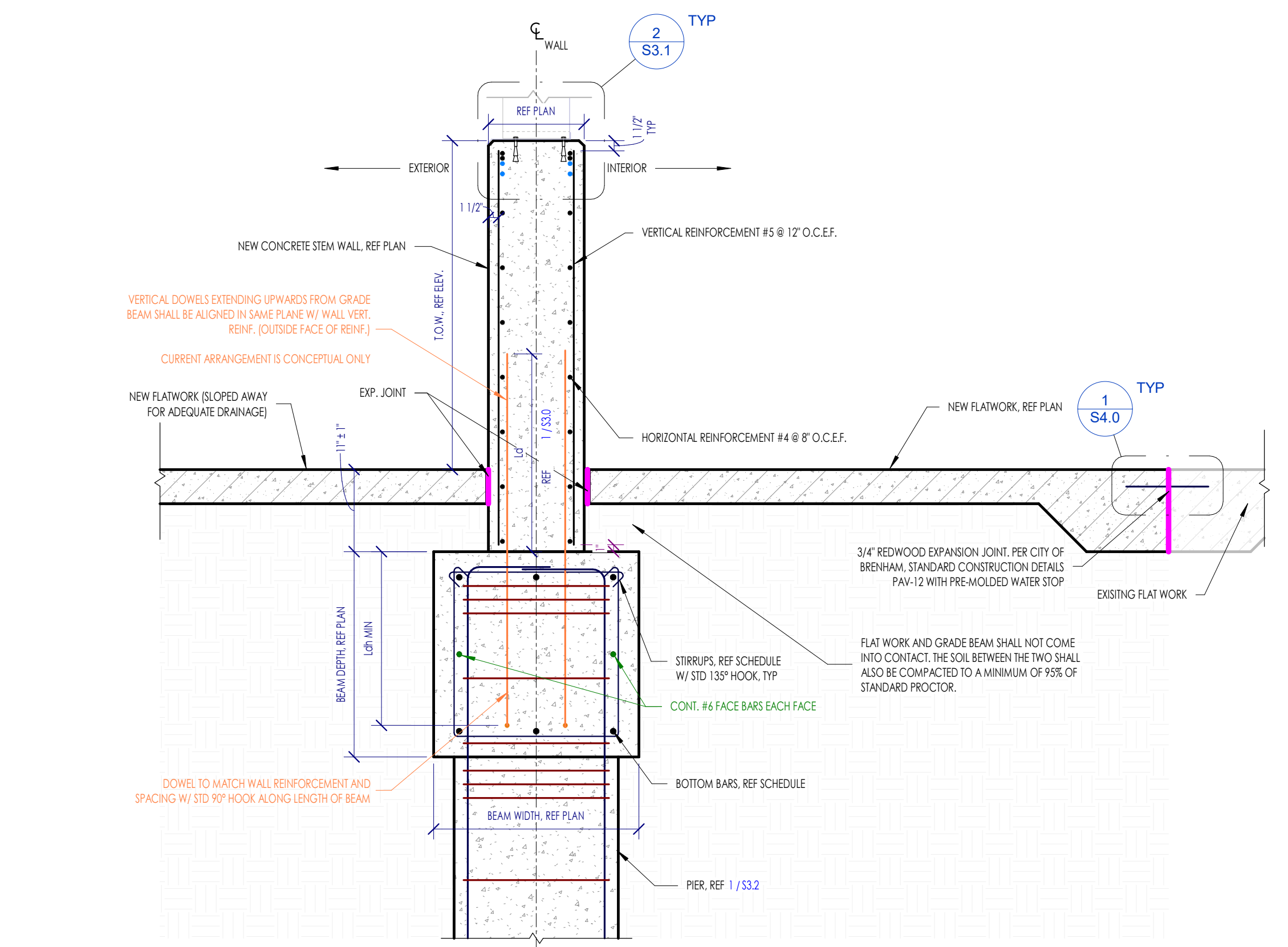
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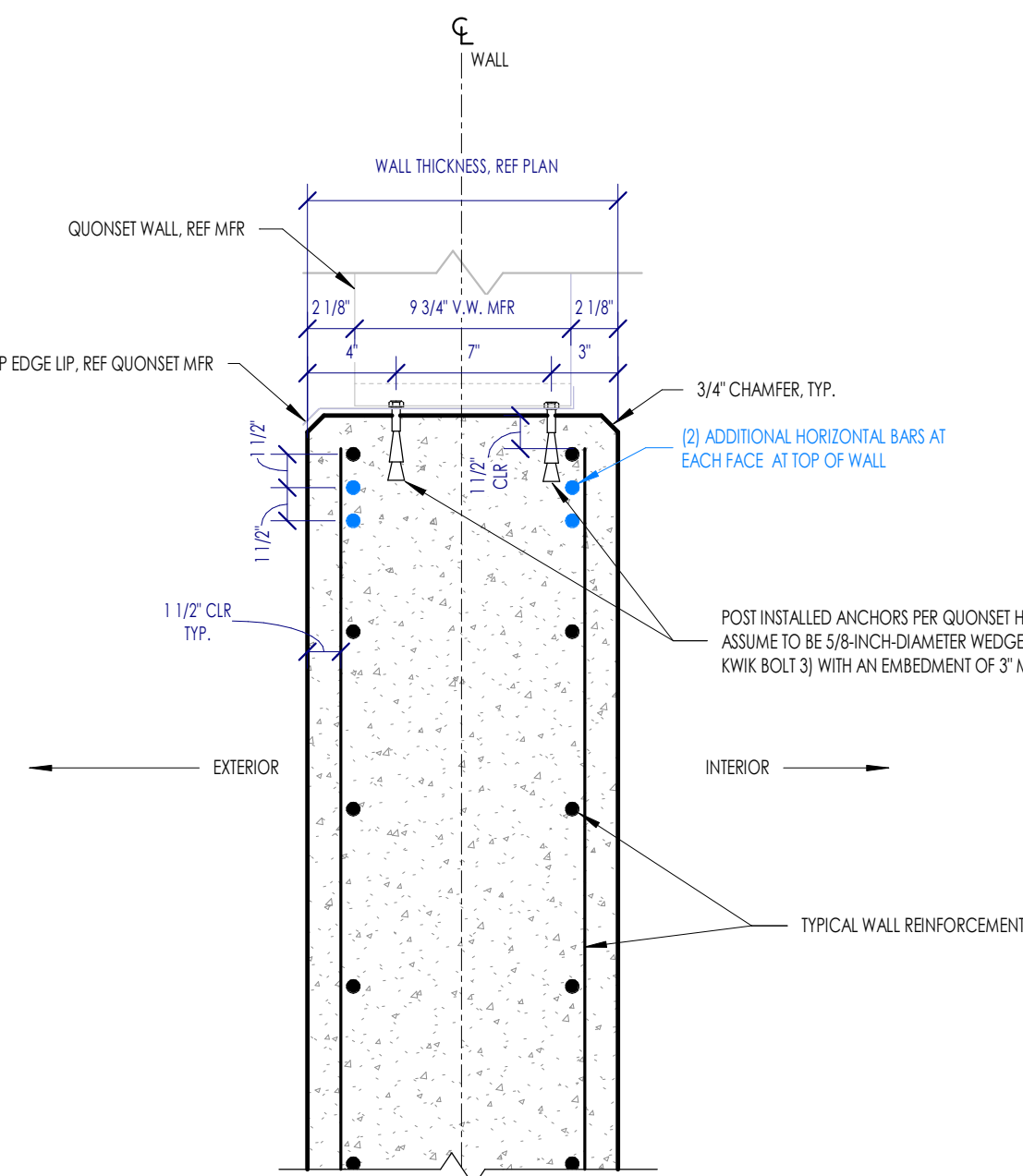
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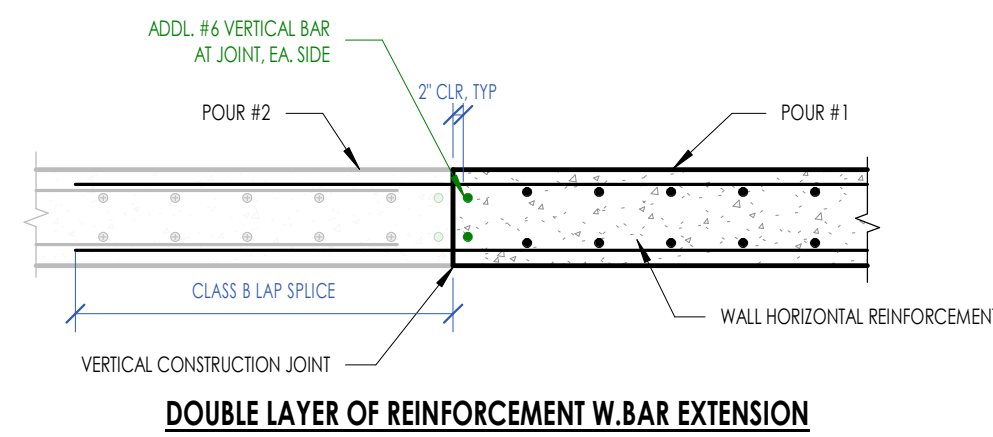
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1 TYPICAL CONCRETE WALL SECTION
NOT TO SCALE

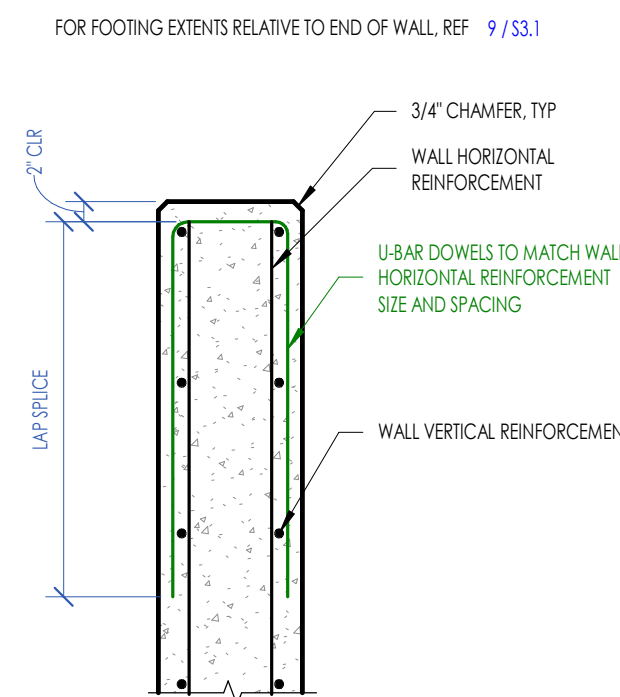


2 TOP OF WALL ATTACHMENT TO QUONSET HUT
NOT TO SCALE



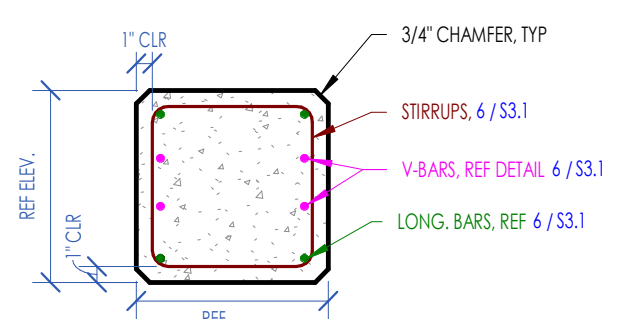
NOTES:
1. CONTRACTOR TO SUBMIT PROPOSED CONSTRUCTION JOINT PLAN TO ARCHITECT & STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO DETAILING REINFORCEMENT.
2. CONSTRUCTION JOINTS SHALL NOT BE LOCATED WITHIN 3\"/>

3 TYPICAL VERTICAL CONSTRUCTION JOINT IN CONCRETE WALL - PLAN VIEW
NOT TO SCALE

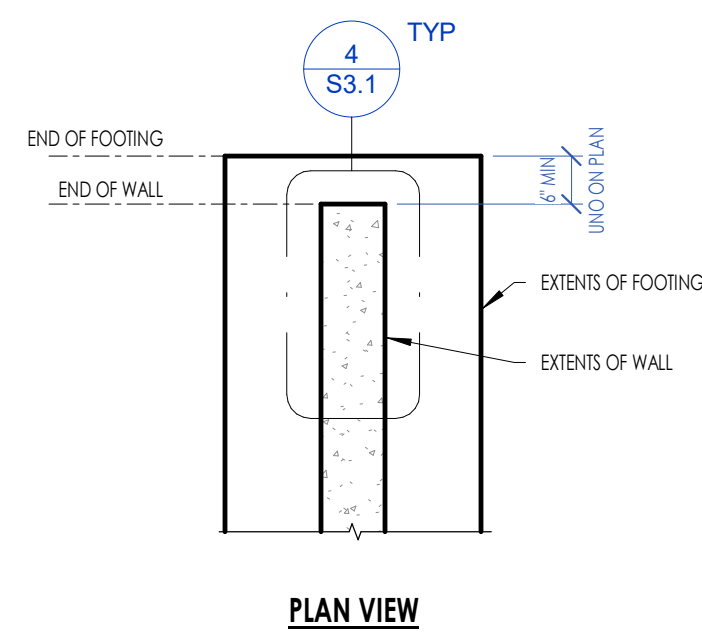


DOUBLE LAYER OF REINFORCEMENT

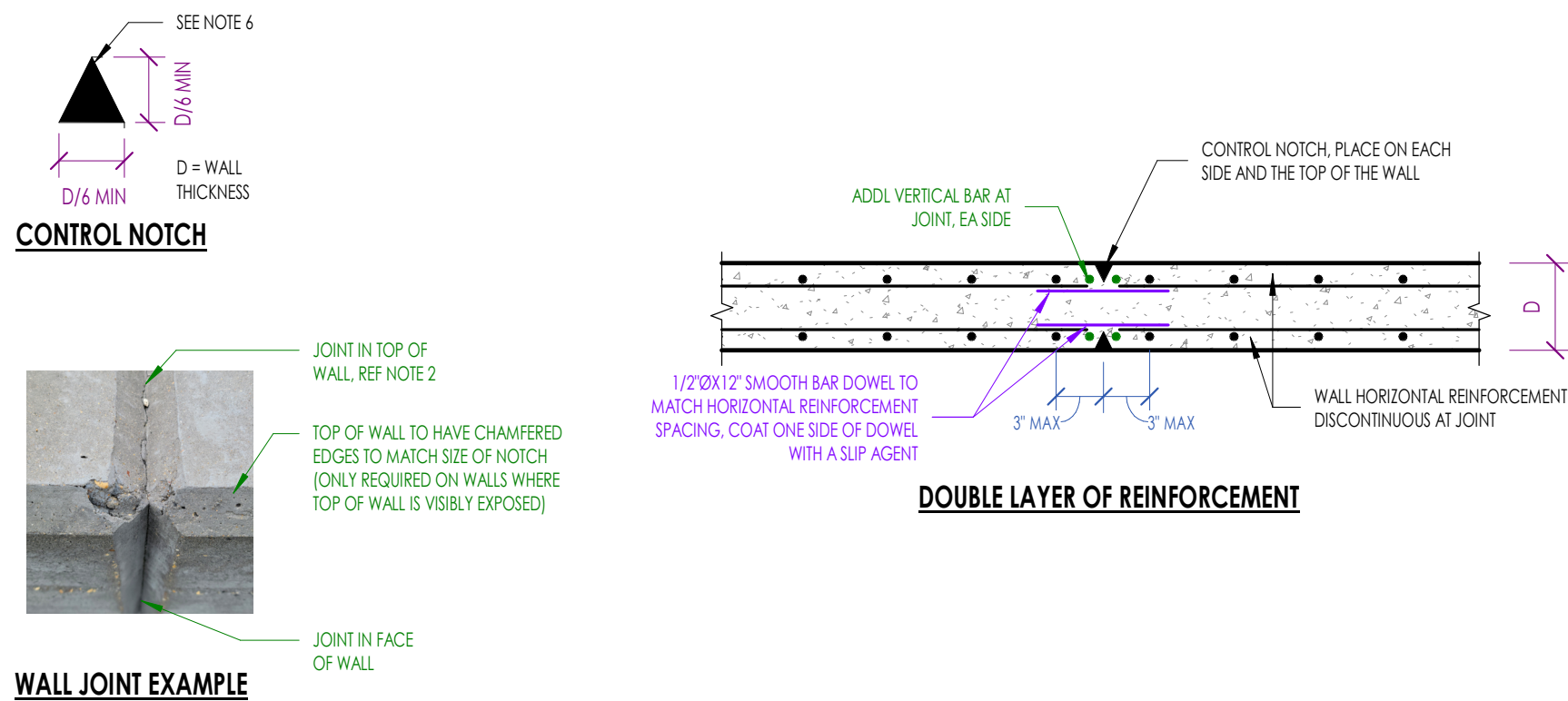
4 TYPICAL CONCRETE WALL END DETAIL - PLAN VIEW
NOT TO SCALE



8 TYPICAL REINFORCEMENT AT OPENING
NOT TO SCALE

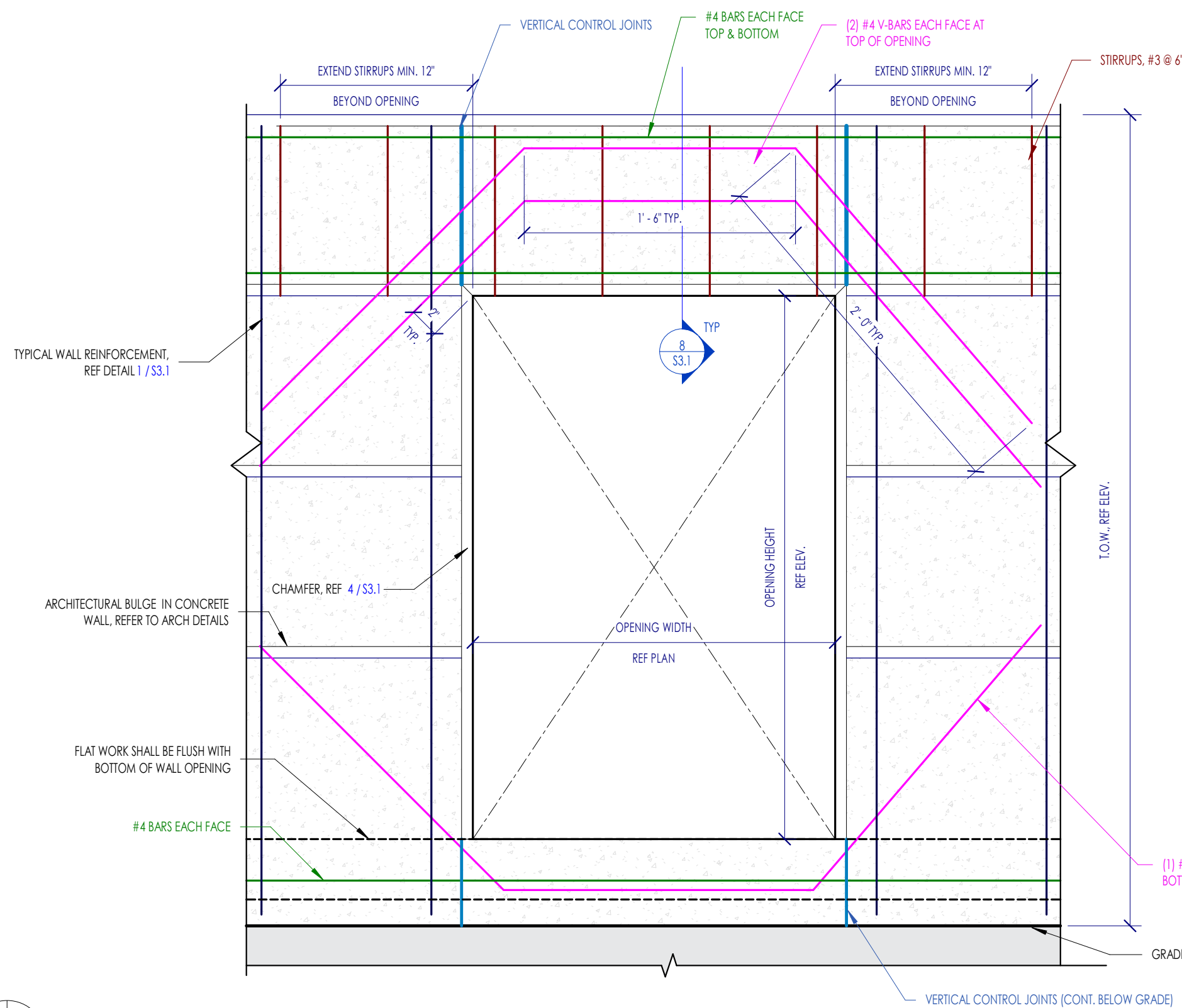


9 TYPICAL FOOTING EXTENSION PAST END OF CONCRETE WALL
NOT TO SCALE

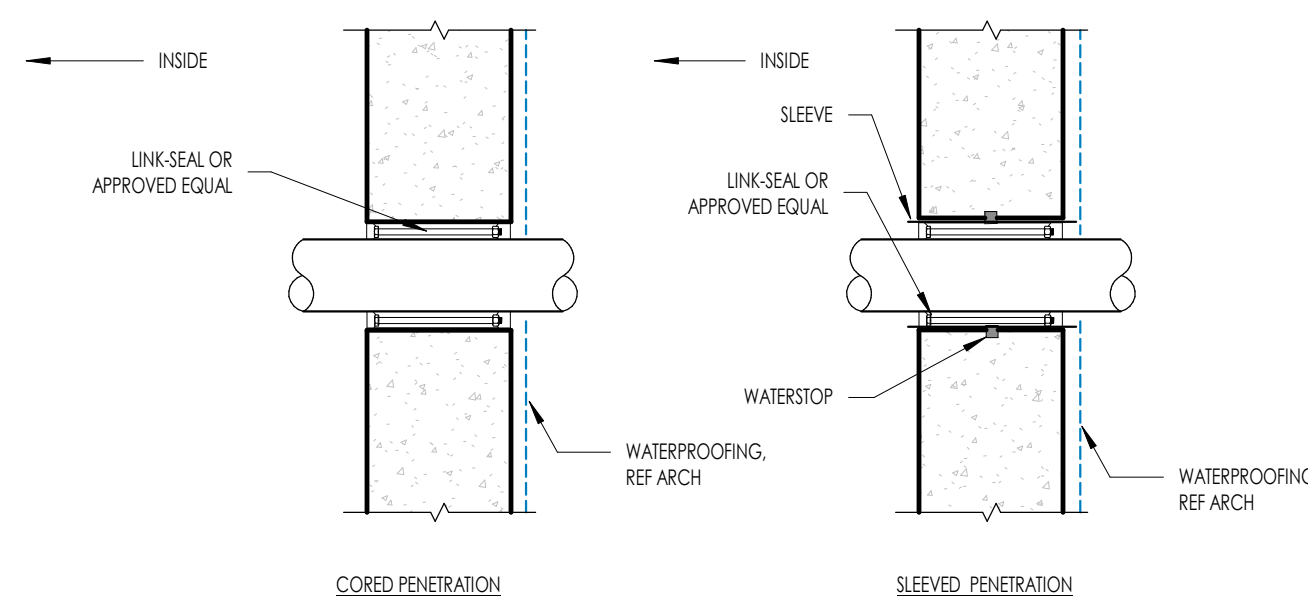


NOTES:
1. CONTRACTOR TO SUBMIT PROPOSED CONTRACTION [CONTROL] JOINT PLAN TO ARCHITECT & STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO DETAILING REINFORCEMENT.
2. CONTRACTOR SHALL SUBMIT PROPOSED EXPANSION JOINT LOCATIONS IN PLAN VIEW PRIOR TO CONSTRUCTION.
3. AT WALLS WHERE THE TOP OF WALL IS VISIBLY EXPOSED, THE TOP OF THE WALL MUST RECEIVE A NOTCHED OR GROOVED JOINT TO MATCH DEPTH OF CONTROL NOTCH.
4. CONTRACTION [CONTROL] JOINT LOCATION CRITERIA:
A. SHAFT WALLS, ELEVATOR AND STAIR SHAFTS SHALL NOT HAVE CONTRACTION [CONTROL] JOINTS.
5. CONTRACTION [CONTROL] JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 12'-0\"/>

5 TYPICAL VERTICAL CONTRACTION [CONTROL] JOINT IN CONCRETE WALL - PLAN VIEW
NOT TO SCALE

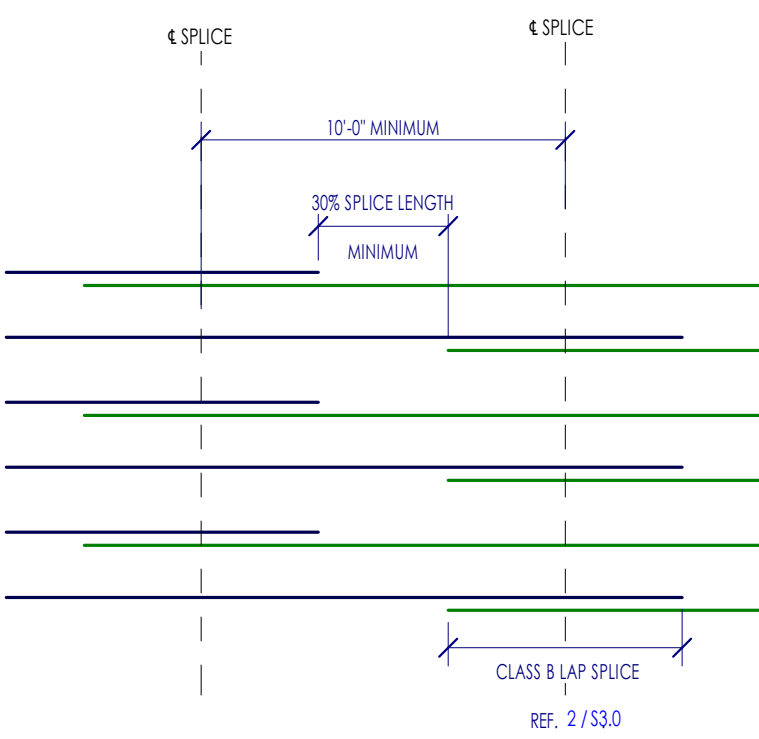


6 CONCRETE WALL OPENING
NOT TO SCALE



NOTES:
1. CORDED PENETRATIONS:
A. IDENTIFY PIPE PENETRATION LOCATION, WITH 1\"/>

7 TYPICAL CONCRETE WALL UTILITY PENETRATION
NOT TO SCALE



NOTES:
1. SPICE BARS ONLY WHERE LENGTHS SHOWN ON DRAWINGS ARE GREATER THAN STOCK BAR LENGTHS (60'-0\"/>

10 TYPICAL WALL HORIZONTAL REINFORCEMENT STAGGERED LAP SPICE
NOT TO SCALE

Project: Release Date: Revisions:	25-00384		
	07/10/2026		
	No.	Description	Date

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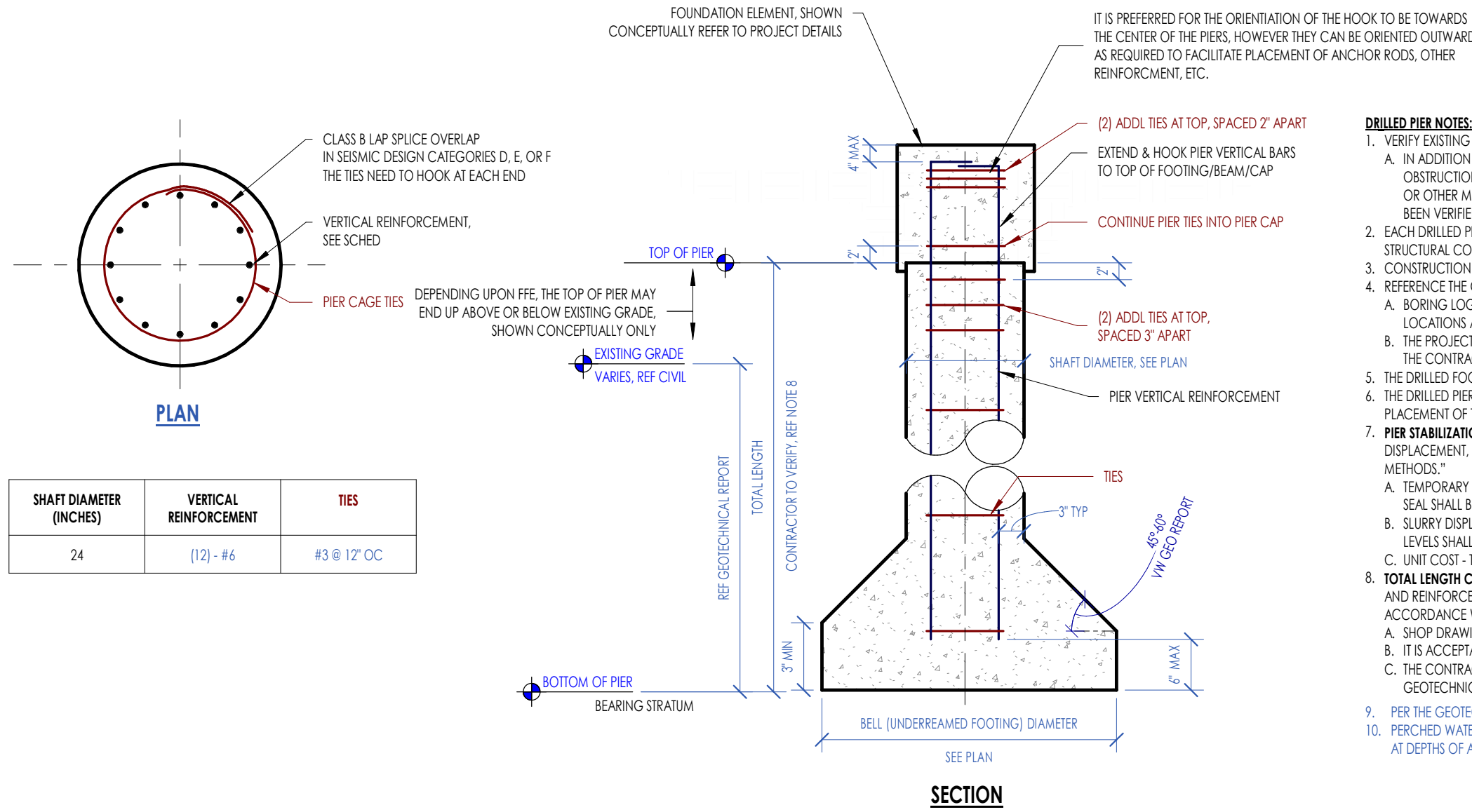
07/10/2026

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CONCRETE WALL
DETAILS

S3.1

.....OF.....



1 S3.2 TYPICAL BELLED PIER DETAIL - RIGID CONNECTION TO FDN
NOT TO SCALE

THE FOLLOWING ARE EXCERPTS TAKE FROM ACI 334 "SPECIFICATION FOR THE CONSTRUCTION OF DRILLED PIERS". THESE EXCERPTS ARE PROVIDE AS A GUIDE FOR MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL REFER TO THE ACI 334 IN ITS ENTIRETY FOR ALL REQUIREMENTS.

- DEFINITIONS:**
- SLURRY DISPLACEMENT METHOD**—METHOD OF DRILLING, CONCRETING, OR DRILLING AND CONCRETING IN WHICH CONTROLLED SLURRY CONSISTING OF WATER, WITH OR WITHOUT ADDITIVES SUCH AS BENTONITE, ATTAPULGITE, OR POLYMER, IS USED TO STABILIZE THE HOLE. THE SLURRY MAY BE USED TO MAINTAIN THE STABILITY OF THE UNCAST DRILLED PIER HOLE TO ALLOW CONCRETE PLACEMENT WHEN WATER SEEPAGE INTO A DRILLED PIER HOLE IS TOO SEVERE TO PERMIT CONCRETING IN THE DRY, OR BOTH.
 - CASING**—A PERMANENT OR TEMPORARY STEEL CYLINDER USED TO RESIST EARTH AND WATER PRESSURES, TO SERVE AS A CONCRETE FORM, AND TO PROTECT PERSONNEL.
 - TEMP METHOD**—PROCEDURE FOR PLACING CONCRETE UNDER WATER OR SLURRY USING A WATERIGHT STEEL PIPE OR TUBE TO PLACE CONCRETE WITHOUT WASHING OUT CEMENT FINES.
 - DRY METHOD**—METHOD OF PIER INSTALLATION IN WHICH CONCRETE IS PLACED IN THE DRY AND WHERE CASING MAY BE USED TO MAINTAIN SIDEWALL STABILITY.

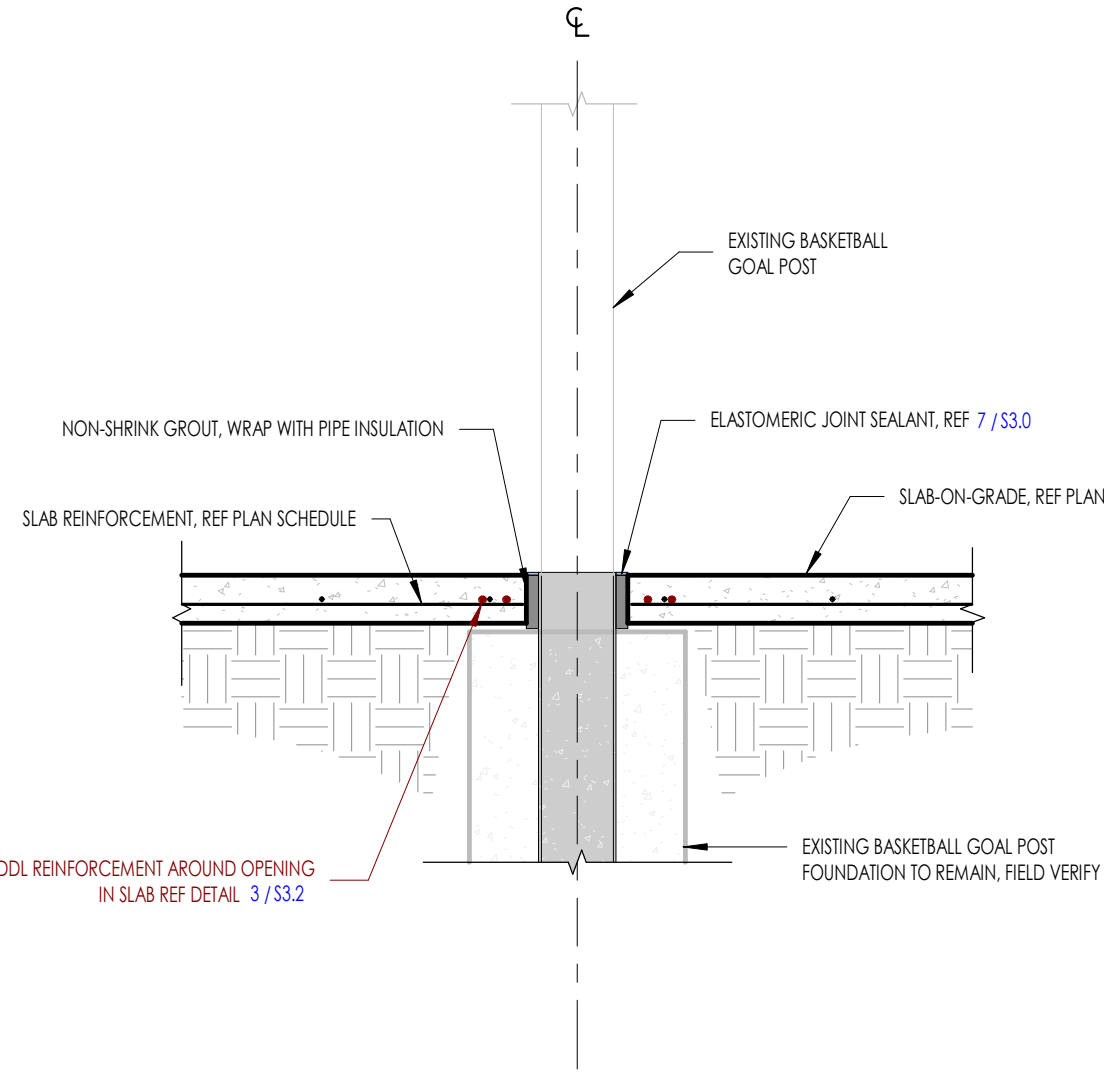
CONCRETE SLUMP REQUIREMENTS BASED UPON DRILL METHOD:

1. DRY, UNCAST OR PERMANENT CASING - 4 TO 8 INCHES
2. TEMPORARY CASING - 4 TO 8 INCHES
3. SLURRY DISPLACEMENT - 7 TO 9 INCHES

REQUIRED SUBMITTALS (MINIMUM - REFER TO ACI 334 FOR FULL LIST OF REQUIREMENTS):

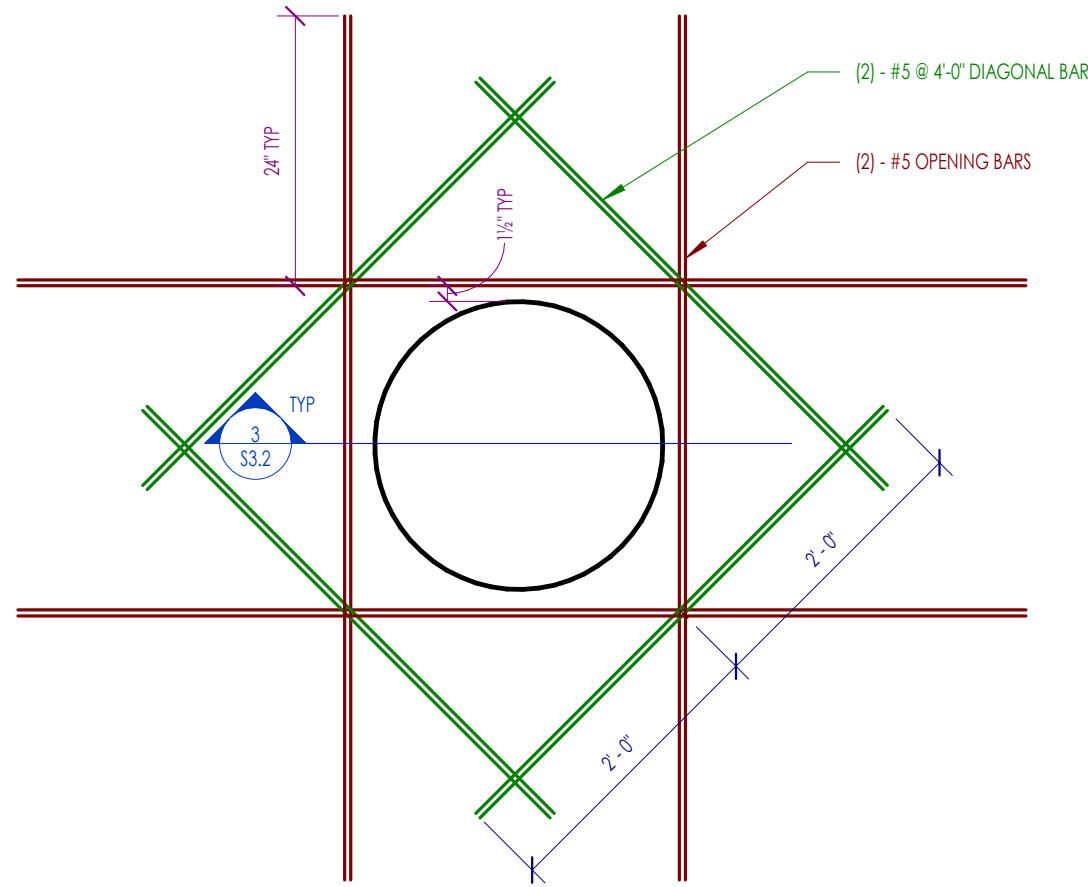
1. **GENERAL**
 - A. EXPERIENCE RECORD OF SUPERVISORY PERSONNEL AND DRILLERS.
 - B. QUALITY CONTROL PROGRAM.
 - C. CONCRETE BATCH PLANT TICKETS CONTAINING THE INFORMATION REQUIRED BY ASTM C 94.
 - D. REPORTS OF AS-BUILT LOCATION, ALIGNMENT, ELEVATIONS, AND DIMENSIONS OF DRILLED PIERS, SPECIFICALLY IDENTIFYING THOSE PIERS THAT ARE NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - E. ANY PRICE REQUIREMENTS OTHER THAN THOSE IN THE CONTRACT DOCUMENTS.
 - F. NOTIFICATION TO THE OWNER'S REPRESENTATIVE GEOTECHNICAL ENGINEER IN TIME TO PERMIT IN-PLACE INSPECTION OF THE COMPLETED EXCAVATION BEFORE PLACEMENT OF REINFORCING STEEL AND BEFORE PLACING CONCRETE.
 - G. REPORTS OF MATERIAL QUANTITIES SUCH AS CONCRETE, REINFORCEMENT, AND SLURRY.
 - H. CERTIFIED WALL TEST REPORTS FOR REINFORCING STEEL, INCLUDING AIR CONTENTS.
 - I. LIST OF EQUIPMENT AND EQUIPMENT OPERATING PROCEDURES.
 - J. SHOP DRAWINGS SHOWING LOCATION AND SIZE OF REINFORCING STEEL.
 - K. PROPOSED CONCRETE MATERIALS AND MIXTURE PROPORTIONS CONFORMING TO THE REQUIREMENTS OF ACI 301.
 - L. DETAILED FIELD PROCEDURES FOR PIER CONSTRUCTION INCLUDING EXCAVATION, CONCRETING, SLURRY DISPLACEMENT METHOD AND CASING WITHDRAWAL, IF APPLICABLE.
 - M. IF SPILL, DRILLING FLUID, OR BOTH ARE TO BE DISPOSED OF OFF SITE, SUBMIT LETTERS OF APPROVAL FROM ALL GOVERNMENTAL AGENCIES WITH JURISDICTION OVER PROPOSED DISPOSAL SITES.
 - N. WELDING PROCEDURES FOR REINFORCEMENT, IF APPLICABLE.
 - O. API WELDER CERTIFICATION FOR REINFORCEMENT.
2. **WHERE CASING IS REQUIRED**
 - A. WELDING PROCEDURES FOR PERMANENT CASING.
 - B. API WELDER CERTIFICATION FOR PERMANENT CASING.
 - C. SITE WALL THICKNESS, TYPE OF STEEL, AND LENGTH OF PERMANENT AND TEMPORARY STEEL CASING.
 - D. SITE EJECTION MATERIAL AND STRENGTH OF UNDER.
3. **SLURRY DISPLACEMENT METHOD**
 - A. TEST REPORT FROM THE SUPPLIER GIVING THE SLURRY TYPE AND ADMIXTURES AND THE PHYSICAL AND CHEMICAL PROPERTIES OF THE MIXED SLURRY TO THE OWNER'S REPRESENTATIVE GEOTECHNICAL ENGINEER.
 - B. REPORTS OF IN-HOLE SLURRY TESTS DURING CONSTRUCTION.
 - C. GRAPHICAL PLOT OF THEORETICAL CONCRETE VOLUME AND ACTUAL MEASURED VOLUME VERSUS DEPTH OR ELEVATION FOR EACH DRILLED PIER CONSTRUCTED BY THE SLURRY DISPLACEMENT METHOD.

- DRILLER PER NOTES:**
1. VERIFY EXISTING UTILITIES AND OBSTRUCTIONS PRIOR TO DRILLING
 2. IN ADDITION TO CONDUCTING 811, THE CONTRACTOR SHALL CONDUCT ALL REASONABLE MEASURES TO LOCATE AND VERIFY EXISTING UTILITIES, STRUCTURES, FOUNDATIONS, AND OTHER SUBSURFACE OR SURFACE OBSTRUCTIONS PRIOR TO ANY DRILLING OR EXCAVATION OPERATIONS. SUCH MEASURES SHALL INCLUDE THE USE OF PRIVATE UTILITY LOCATE SERVICES, GROUND-PENETRATING RADAR (GPR) SCANS, POLOING, OR OTHER METHODS AS NECESSARY TO IDENTIFY ITEMS THAT MAY INTERFERE WITH OR BE DAMAGED BY THE PROPOSED WORK. THE CONTRACTOR SHALL NOT PROCEED WITH DRILLING UNTIL THE WORK AREA HAS BEEN VERIFIED CLEAR OF EXISTING UTILITIES AND OBSTRUCTIONS AND ANY POTENTIAL CONFLICTS HAVE BEEN REVIEWED WITH THE ENGINEER.
 3. EACH DRILLED PIER EXCAVATION MUST BE EXAMINED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER WHO IS FAMILIAR WITH THE GEOTECHNICAL ASPECTS OF THE SOIL STRATIGRAPHY, THE STRUCTURAL CONFIGURATION, FOUNDATION DESIGN DETAILS AND ASSUMPTIONS PRIOR TO PLACING CONCRETE. REF THE GENERAL NOTES FOR MORE INFORMATION ON REQUIRED OBSERVATIONS.
 4. REFERENCE THE GEOTECHNICAL REPORT FOR COMPLETE SUBSURFACE CONDITIONS
 5. BORING LOGS AND TEST DATA ARE NOT REPRESENTATIVE OF A COMPLETE DESCRIPTION OF THE SITE SUBSURFACE CONDITION AS THEY ONLY DISPLAY WHAT WAS OBSERVED IN BORINGS AT THE INDICATED LOCATIONS AT THE TIME IT WAS DRILLED. THE CONTRACTOR SHALL INCLUDE REASONABLE TIME AND COST ALLOWANCES FOR VARIATIONS THAT AFFECT THE CONTRACTOR'S WORK.
 6. THE PROJECT'S GEOTECHNICAL ENGINEER SHALL SERVE AS THE ULTIMATE AUTHORITY IN DETERMINING THE NECESSARY BEARING DEPTH, AND SHALL REVIEW/APPROVE ALL INSTALLATION TECHNIQUES PROPOSED BY THE CONTRACTOR.
 7. **PIER STABILIZATION** - WHERE GROUNDWATER, GRANULAR SOILS, OR OTHER CONDITIONS REQUIRE STABILIZATION OF DRILLED PIER SICAVATION, THE CONTRACTOR SHALL EMPLOY TEMPORARY CASING, SLURRY DISPLACEMENT, OR OTHER APPROVED MEANS TO PREVENT SLOUGHING AND GROUNDWATER INFLOW. IN ACCORDANCE WITH FHWA-NHI-10-116, "DRILLED SHAFTS: CONSTRUCTION PROCEDURES AND LRFD DESIGN METHODS":
 - A. TEMPORARY CASINGS - PROVIDE WATERIGHT STEEL CASINGS OF ADEQUATE THICKNESS AND LENGTH TO PREVENT SOIL OR WATER INTRODUCTION AND MAINTAIN SHAFT STABILITY. THE USE OF SLURRY TO LUBRICATE OR SEAL SHALL BE PERMITTED ONLY WITH PRIOR APPROVAL OF THE PROJECT GEOTECHNICAL AND STRUCTURAL ENGINEERS.
 - B. SLURRY DISPLACEMENT - WHEN USED, THE SLURRY SHALL BE MIXED, MAINTAINED, AND MONITORED PER FHWA-NHI-10-116 TO MAINTAIN POSITIVE FLUID HEAD AND SIDEWALL STABILITY. DRILLING SLURRY OR WATER LEVELS SHALL BE MAINTAINED AT LEAST 5 FEET ABOVE GROUNDWATER TO PREVENT INFLOW.
 - C. **UNIT COST** - THE CONTRACTOR SHALL PROVIDE UNIT COSTS PER LINEAR FOOT FOR EACH PIER DIAMETER FOR CASO EXCAVATION, AND SLURRY DISPLACEMENT METHODS WHEN SUBMITTING THEIR BID.
 8. **TOTAL LENGTH COORDINATION** - THE CONTRACTOR SHALL COORDINATE BETWEEN THE LATEST CIVIL, GRADING, PLANS, STRUCTURAL DRAWINGS, AND FIELD CONDITIONS TO ESTABLISH THE FINAL DRILLED PIER LENGTH AND REINFORCEMENT PRIOR TO SUBMITTING REBAR PLACING/SHOP DRAWINGS. FINAL PIER TIE ELEVATIONS SHALL BE VERIFIED IN THE FIELD UNDER THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER IN ACCORDANCE WITH FHWA-NHI-10-116 "DRILLED SHAFTS: CONSTRUCTION PROCEDURES AND LRFD DESIGN METHODS":
 - A. SHOP DRAWINGS SUBMITTED WITHOUT THIS COORDINATION WILL BE RETURNED "REVISE AND RESUBMIT."
 - B. IT IS ACCEPTABLE TO FABRICATE PIER CAGES SLIGHTLY LONGER THAN REQUIRED AND TRIM FROM THE BOTTOM IN THE FIELD AS NEEDED TO MATCH FINAL ELEVATIONS.
 - C. THE CONTRACTOR SHALL PROVIDE UNIT COSTS PER LINEAR FOOT FOR EACH PIER DIAMETER TO ACCOMMODATE FIELD-DETERMINED ADJUSTMENTS IN LENGTH OR CHANGES DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
 9. PER THE GEOTECHNICAL REPORT, THE BEARING STRATION VARIES BUT GENERALLY CONSISTS OF STIFF, FAT CLAYS OR MEDIUM DENSE, CLAYEY SANDS
 10. PRECISE WATER OR GROUNDWATER HAS NOT BE DOCUMENTED AT BOTH BORINGS DURING DRILLING; HOWEVER, GROUNDWATER WAS OBSERVED AT BOTH BORINGS IMMEDIATELY AFTER COMPLETION OF DRILLING AT DEPTHS OF ABOUT 20 FEET BELOW THE GROUND SURFACE. HISTORIC GROUNDWATER OBSERVATIONS AT THE PROJECT SITE DURING DRILLINGS HAVE BEEN AS SHALLOW AS 15 FEET (AUGUST 12, 2021).



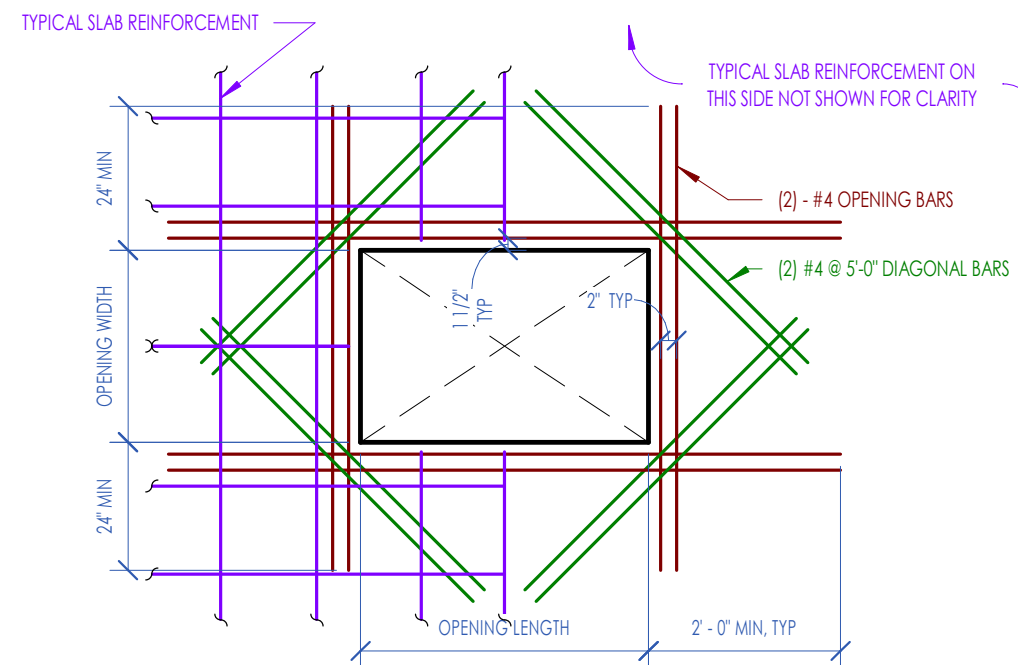
- NOTES:**
1. THE SLAB SHALL NOT COME INTO CONTACT WITH THE POST FOOTING AS THIS WILL CREATE A RESTRAINT TO SLAB SHRINKAGE AND THIS LEAD TO CRACKING.

2 S3.2 TYPICAL BASKETBALL POST IN SLAB
NOT TO SCALE



- NOTES:**
1. WRAP EXISTING LIGHT POLE IN MIN. 1/2\"/>

4 S3.2 TYPICAL CIRCULAR SLAB PENETRATION GREATER THAN 12\"/>



- NOTES:**
1. THIS DETAIL IS APPLICABLE TO RECTANGULAR, CIRCULAR AND OTHER SHAPE OPENINGS.
 2. SLAB OPENINGS ARE ONLY ALLOWED WHERE SHOWN ON THE STRUCTURAL PLANS OR WHERE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
 3. WRAP WITH MIN. 1/2\"/>

3 S3.2 TYPICAL REINFORCEMENT AT SLAB BLOCKOUT/PENETRATION /DRAIN/ OPENING
NOT TO SCALE

Project:	25-00384	Release Date:	07/10/2026	No.	Description	Date
Revisions:	1	REV. 1				

Consultant:

DUDLEY

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City of Brenham Henderson
Park Basketball Court
Pavilion

BRENNHAM, TEXAS

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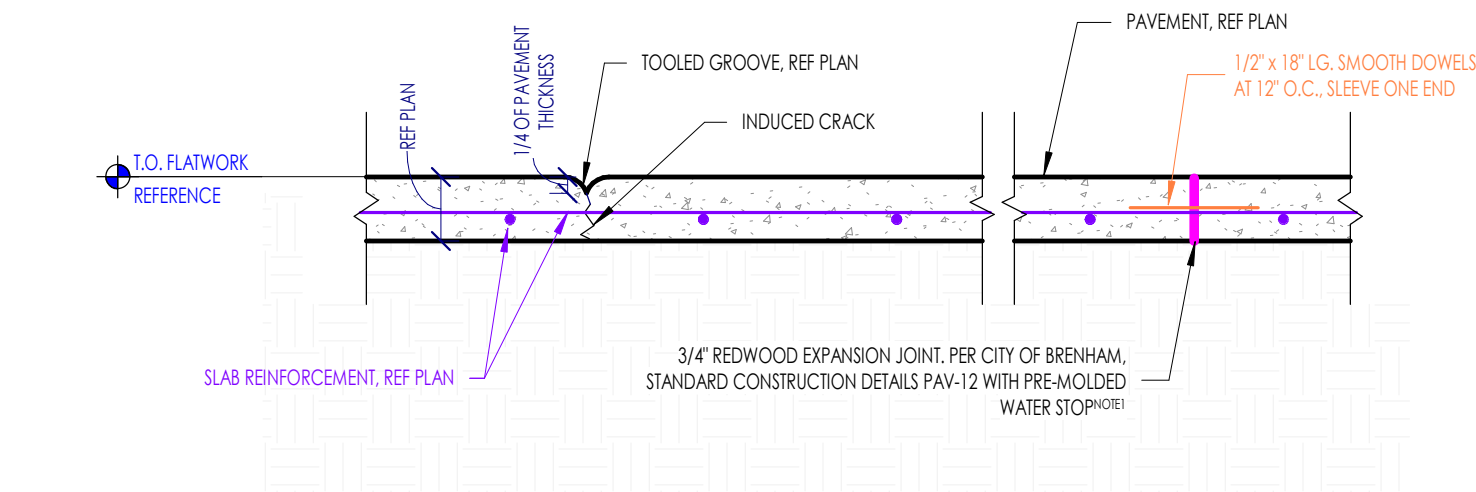
07/10/2026

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DEEP FOUNDATION
DETAILS

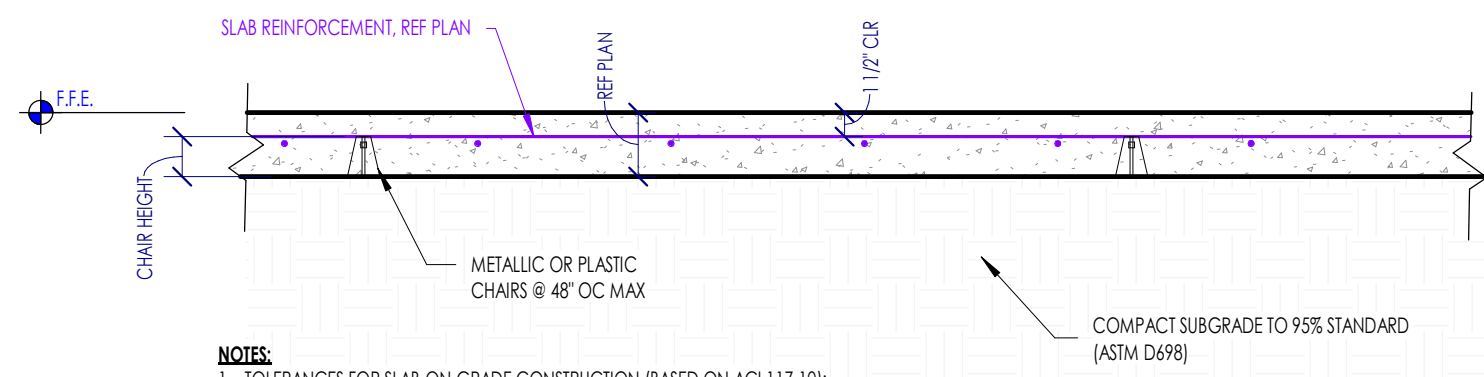
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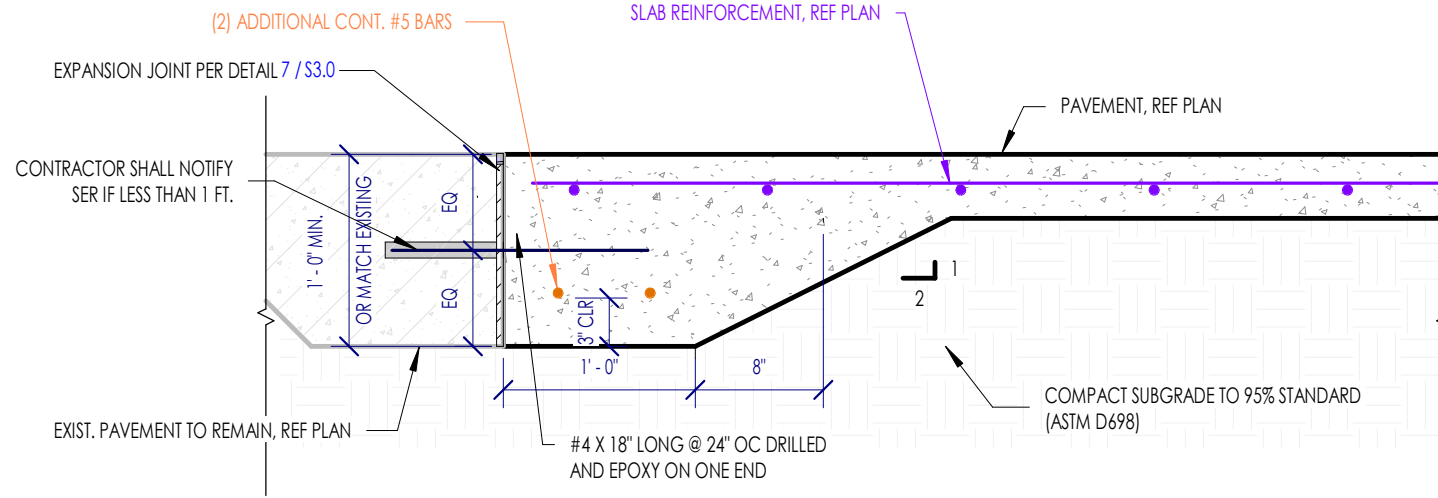
- NOTES:
1. ACCEPTABLE PRODUCTS FOR PREMOULDED WATERSTOP INCLUDE: VINYLEX VK-SEAL #VX-750; GREENSTREAK G-SEAL #610; BOWMETALS S-SEAL #PC-075300; OR APPROVED EQUIVALENT

1 S4.0
1 S1.1
TYPICAL FLATWORK CONTROL AND EXPANSION JOINT DETAIL
NOT TO SCALE



- NOTES:
1. TOLERANCES FOR SLAB-ON-GRADE CONSTRUCTION (BASED ON ACI 117-10):
 - A. DEVIATION FROM ELEVATION:
 - a. TOP SURFACE OF SLAB $\pm 1/4"$. REFER TO FLOOR FINISHES & LEVELNESS CRITERIA IF APPLICABLE
 - b. THE GRADE OF SOIL IMMEDIATELY BELOW SLAB-ON-GRADE $\pm 1/2"$
 - DEVIATIONS IN ELEVATIONS OF FINE GRADE CAN LEAD TO RESTRAINT TO SHRINKAGE AND THUS ADDITIONAL CRACKING IN THE SLAB.
 - c. THE CONTRACTOR SHALL ENGAGE A SURVEYOR TO PERFORM A ROD AND LEVEL SURVEY. MEASUREMENTS SHOULD BE TAKEN AT 20 FT INTERVALS IN EACH OF TWO PERPENDICULAR DIRECTIONS.
 2. PLASTIC OR STEEL WIRE CHAIR ONLY TWO MAGNITUDE IN ACCORDANCE WITH CRS
 3. FOR TOOLED GROOVE JOINT JOINTS IN SLAB-ON-GRADE, REF 1 / S4.0
 4. LAP SPICES IN SLAB REINFORCEMENT SHALL BE STAGGERED A MINIMUM OF 5' APART

2 S4.0
1 S1.1
TYPICAL FLATWORK DETAIL
NOT TO SCALE



3 S4.0
1 S1.1
TYPICAL FLATWORK W/ THICKENED TURNDOWN
NOT TO SCALE

City of Brenham Henderson
Park Basketball Court
Pavilion

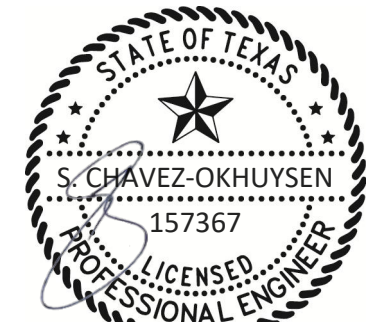
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07/10/2026

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PAVEMENT DETAILS

S4.0

.....OF.....

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Project:	25-00384	
Release Date:	07/10/2026	
No.	Description	Date
1	REV. 1	