

Alamo Colleges

WFAC Black Box Addition PKG 1

1801 Martin Luther King Dr.,
San Antonio, TX, 78203

ISSUE FOR CONSTRUCTION

2024/06/14



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WFAC Black Box Addition PKG 1

1801 Martin Luther King Dr.,
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ISSUE FOR CONSTRUCTION

SHEET NUMBER	SHEET NAME
G-000	ARCHITECTURAL GENERAL
G-001	COVER SHEET
G-002	GENERAL PROJECT INFORMATION
G-021	TEXAS ACCESSIBILITY STANDARDS
CIVIL	
C100	NOTES
C200	SITE PLAN
C201	SITE FIRE PLAN
C202	DIMENSION CONTROL & PAVING PLAN
C300	EXISTING CONDITIONS & DEMO PLAN
C400	GRADING PLAN
C401	CRAWLSPACE
C500	PRE DRAINAGE AREA MAP
C501	POST DRAINAGE AREA MAP
O600	OVERALL UTILITY
O700	ELEC. & COMMS PLAN & PROFILES
C800	STORM PLAN
C801	STORM PROFILES
C900	SANITARY PLAN & PROFILES
C1000	WATER PLAN & PROFILES
C1100	EROSION CONTROL
C1200	DETAILS
C1201	DETAILS
C1202	DETAILS
STRUCTURAL	
S-101	NOTES, SECTIONS & DETAILS
S-102	SPECIAL INFECTION NOTES
S-201	FOUNDATION FRAMING PLAN
S-301	SECTIONS & DETAILS & MECH. YARD FOUNDATION
S-302	SECTION
S-303	SECTION
S-304	SECTION
S-305	SECTION
S-306	SECTION
S-307	SECTIONS
S-308	SECTIONS
S-309	SECTIONS
S-401	CONC. BEAM SCHED. & NOTES
S-402	CONC. JOIST SCHED. NOTES & DETAILS
ARCHITECTURAL SITE DEMOLITION	
ASD101	DEMOLITION ARCHITECTURAL SITE PLAN
ARCHITECTURAL SITE	
AS100	ARCHITECTURAL SITE PLAN
AS401	ARCHITECTURAL ENLARGED SITE PLANS
ARCHITECTURAL	
A-100	CRAWLSPACE FLOOR PLAN - COMPOSITE
A-411	DOOR SCHEDULE PANEL AND FRAME TYPES
MECHANICAL	
MPS-101	MECHANICAL AND PLUMBING SITE PLAN
ELECTRICAL	
E05-101	DEMO SITE POWER PLAN
E100	ELECTRICAL ONE LINE DIAGRAM
E-502	ELECTRICAL RISER DIAGRAM
E-601	ELECTRICAL SYMBOL LEGEND AND CONTRACTOR SCHEDULE
E-602	ELECTRICAL DETAILS
E-603	ELECTRICAL DETAILS
E5-101	SITE POWER PLAN
PLUMBING	
P-000	SYMBOLS AND ABBREVIATIONS
PL-101-A	CRAWLSPACE PLUMBING PLAN
P-601	PLUMBING DETAILS
P-602	PLUMBING DETAILS
TECHNOLOGY	
T-001	TECHNOLOGY SYSTEM NOTES AND LEGENDS
TS-101	SITE TECHNOLOGY PLAN

ADD ALTERNATES

- PROVIDE SEPARATE PRICING TO REMOVE THE LOBBY ADDITION IN FRONT OF THE EXISTING WATSON THEATER ENTRANCE. THIS IS TO INCLUDE PIERS, FOUNDATION.
- MUD SLAB:
2A - PROVIDE SEPARATE PRICING TO REMOVE MUD SLAB DOWN TO A PATHWAYS FROM THE FLOOR HATCH TO THE PLUMBING DRAINS. REFER TO SHEET A-100.
2B - PROVIDE SEPARATE PRICING TO REMOVE THE MUD SLAB.

ABBREVIATIONS AND LEGEND KEYS

REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS REFER TO OTHER DISCIPLINES FOR ADDITIONAL ABBREVIATIONS

A	above	FG	finish group	PERM	perimeter	T	tread
ABV	above	FHC	fire hydrant	PG	paint grade	TAG	torque & groove
ACOUS	acoustical	FH	fire hose cabinet	PLAM	plastic laminate	T.O.	top of
ACT	acoustical ceiling tile	FLR	floor	PLAS	plaster	TEL	telephone
AD	adjustable	FLR	floor	PLYWD	plywood	TER	terrazzo
ADJ	adjustable	FLUOR	fluorescent	POLYISO	polyisocyanurate	THK	thick
AFF	above finished floor	FT	foot or feet	PR	pair	THR	threshold
ALT	alternate	FUR	furring	PTD	painted	TYP	typical
ALUM	aluminum	G	gallon	R	riser	U	undercut
APPROX	approximate	GAL	gallon	RAD	radius	UNFN	unfinished
ARCH	architect / architectural	GBV	galvanized	RCP	reflected ceiling plan	UNO	unless noted otherwise
B	bottom of	GB	grab bar	RD	roof drain	UON	unless otherwise noted
BALC	balcony	GC	general contractor	RE	refer	UTIL	utility
BO	board	GL	glass	REF	refrigerator	V	vertical composition tile
BET	between	GND	ground	REIN	reinforced	VERT	vertical
BLDG	building	GWB	gypsum wall board	REQD	required	VF	verify in field
BLKG	blocking	GYP	gypsum	RESL	resilient	VTR	vert termination pipe
BLW	below	H	H.W.H.	RTU	return top unit (mech)	W	west
BM	beam	H.W.H.	hot water heater	S	south	W	with
BOT	bottom	HC	handicapped	SAFB	sound attenuation fiber batt	WO	without
BRKT	bracket	HDW	hardware	SC	scupper	WC	water closet
BULKHD	bulkhead	HMM	hollow metal	SECT	section	WIN	window
BUR	built up roof	HORZ	horizontal	SECT	section	WP	waterproof
C	corner guard	HR	hour	SF	square foot	WS	wetstack
C.G.	corner guard	HT	height	SHT	sheet	WSTC	wainscot
CAB	cabinet	HT	hour	SIM	similar	WT	weight
CAK	caulking	HM	hollow metal	SPEC	specification	XPS	extruded polystyrene
CEM	cement	I	inner diameter	SCHED	schedule		
CER	ceramic	INCAN	incandescent	SECT	section		
CJ	control joint	INSUL	insulation	SF	square foot		
CLG	ceiling	INT	interior	SHT	sheet		
CLS	clear	JAN	janitor	SIM	similar		
CLR	clear	JST	joist	SPEC	specification		
CO	cased opening	JST	joist	SS	stainless steel		
COL	column	JT	joint	STD	standard		
CONC	concrete	MTD	mounted	STL	steel		
CONT	continuous	MTL	metal	STOR	storage		
CPT	carpet	N	north	STRUC	structural		
CT	ceramic tile	NIC	not in contract	SUSP	suspended		
CTR	center	NO	number	SYM	symmetrical		
D	down	NOM	nominal				
DBL	double	NTS	not to scale				
DET	detail						
DIA	diameter						
DM	dimension	MAX	maximum				
DN	down	MECH	mechanical				
DR	door	MEMB	membrane				
DS	down spout	MFR	manufacturer				
DW	dishwasher	MIN	minimum				
DWG	drawing	MISC	miscellaneous				
E	east	MO	masonry opening				
EA	each	MTD	mounted				
EFS	exterior insulation & finish system	MTL	metal				
ELEC	electrical	N	north				
ELEV	elevation	NIC	not in contract				
EMER	emergency	NO	number				
ENCL	enclosure	NOM	nominal				
EOS	edge of slab	NTS	not to scale				
EQ	equipment						
EQUIP	equipment	O	overall				
ETR	existing to remain	O.P.	overflow pipe				
EW	each way	OA	overall				
EXP. JT.	expansion joint	OC	on center				
EXST	existing	OD	outside diameter				
F	face of	OFF	office				
F.O.	face of	OH	opposite hand				
FA	fire alarm	OPG	opening				
FAP	fire annunciator panel	OPP	opposite				
FDP	floor drain	P	partition				
FE	fire extinguisher	PART	partition				
FEC	fire extinguisher cabinet	PCT	porcelain tile				

PROJECT GRAPHIC REFERENCES

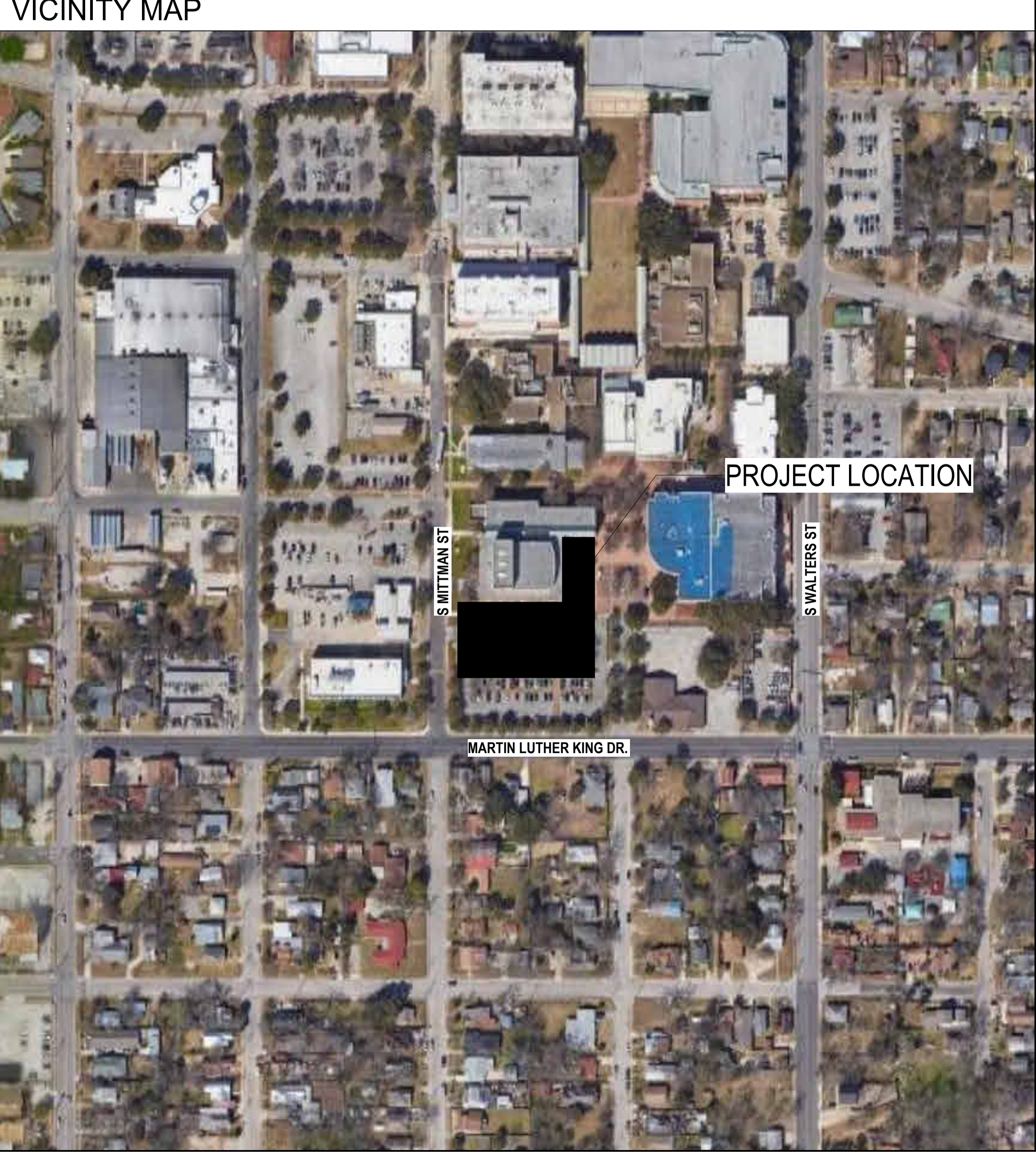
DISCIPLINE	SUBDISCIPLINE	0	GENERAL
-	NOT USED	1	PLANS (Site, Floor, Finish, Graphics)
G	GENERAL	2	CEILING
C	CIVIL	3	ROOF
CA	SPORTS CIVIL	4	ENLARGED PLANS
SA	SPORTS ARCH	5	ELEVATIONS (exterior & interior)
S	STRUCTURAL	6	SECTIONS (Big & Wall)
L	LANDSCAPE	7	BLDG DETAILS
D	DEMOLITION	8	DIAGRAMS/COMPILED SCHEDULES (Partition Types, Casework/Work, Door & Panel/Frame Types, Window Types)
A	ARCHITECTURAL	9	MISCELLANEOUS
M	MECHANICAL		
E	ELECTRICAL		
P	PLUMBING		
T	TECHNOLOGY		
FS	FOOD SERVICE		
AV	ACOUSTICAL		
TH	THEATRICAL		

PROJECT GRAPHIC REFERENCES

PROJECT SYMBOLS	PROJECT SYMBOLS	CONSTRUCTION TYPE SYMBOLS

GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER". PBK ARCHITECTS, INC. SHALL BE DESIGNATED AS "THE ARCHITECT". FACILITY SHALL BE DESIGNATED AS "THE LANDLORD". THE CONTRACT DOCUMENT SHALL ALSO INCLUDE THE AGREEMENT, PERFORMANCE AND PAYMENT BONDS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, THE SPECIFICATIONS, CONTRACT DRAWINGS ADDENDA, AND CONTRACT MODIFICATIONS, BUILDING RULES AND REGULATIONS & ANY OTHER DOCUMENTS REQUIRED BY THE OWNER.
- THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS REQUIRED FOR THE WORK AND FOR THE SCHEDULING OF ALL REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK.
- CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL DISCREPANCIES, ERRORS, INCONSISTENCIES OR AMBIGUITIES PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR, AND PROVIDE PROTECTION OF, ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED FINISHES, MATERIALS, AND EQUIPMENT AS A RESULT OF THE WORK. ALL EXISTING FINISHES TO REMAIN SHALL BE CLEANED AT THE COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL PHOTOGRAPH AND DOCUMENT ALL EXISTING DAMAGES, AND PROVIDE TO THE ARCHITECT, PRIOR TO PROCEEDING WITH THE WORK.
- ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL CONSTRUCTION SHALL BE OF INDUSTRY STANDARD OR BETTER. THE ARCHITECT SHALL BE FINAL JUDGE OF QUALITY.
- ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY, AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK, UNLESS OTHERWISE NOTED. REJECTED MATERIALS AND EQUIPMENT SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND RE-PRICED WITH MATERIALS AND EQUIPMENT OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY OF MATERIAL AND EQUIPMENT USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.
- DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED BECAUSE OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON THE DRAWINGS, UNLESS THEY CONTRIBUTE TO A CHANGE IN THE SCOPE OF THE WORK. ANY DIFFERENCE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR COORDINATION PRIOR TO ORDERING, MANUFACTURING, OR PROCEEDING WITH THE WORK. HORIZONTAL DIMENSIONS INDICATED ARE TO/FROM FACE OF FINISH, UNLESS NOTED OTHERWISE. VERTICAL DIMENSIONS ARE FROM TOP OF FLOOR SLAB EXCEPT WHERE NOTED TO BE ABOVE FINISHED FLOOR (AFF). DIMENSIONS ARE NOT ADJUSTED WITHOUT APPROVAL OF ARCHITECT UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT (INCLUDING BUT NOT LIMITED TO STRUCTURAL MEMBERS, PIPING, DUCT WORK, CONDUIT AND SPRINKLERS) AND THAT CLEARANCES FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT ARE PROVIDED. ELEMENTS IN CONFLICT SHALL BE DOCUMENTED AND PROVIDED TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF 3 SETS OF PRINTS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. MATERIAL SUBMITTALS (S/SAMPLES) SHALL BE PROVIDED FOR WOOD, FASTENERS, ACRYLIC, CARPET, TILE, BASE, PAINT, LAMINATE AND ANY OTHER MATERIALS INDICATED IN THE SHOP DRAWINGS.
- CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, PLUMBING EQUIPMENT, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.
- CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT IS EXPECTED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE A CLAIM FOR EXTRA COMPENSATION. CONTRACTOR SHALL NOT PROCEED WITH WORK WHICH, IF COMPLETED, IS STRICT CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, WILL RESULT IN ADDITIONAL WORK BEYOND THE SCOPE OF THE CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER. ANY FIELD CONDITIONS THAT SIGNIFICANTLY VARY FROM THE CONTRACT DOCUMENTS OR WILL RESULT IN ADDITIONAL WORK, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- PATCH, REPAIR, AND INSTALL ALL FIREPROOFINGS AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
- WHERE BUILDING THERMAL EXPANSION JOINTS ARE REQUIRED, CONTRACTOR SHALL COMPLY WITH APPLICABLE CODE AND INDUSTRY BEST PRACTICES FOR ROUTING OF ALL PIPING, DUCTS, CONDUITS AND OTHER CONTINUOUS RUNS.
- CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR THE GENERAL CONTRACTOR'S NEGLIGENCE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION.
- FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT AND WELL SCURED. FINISHED WORK SHALL HAVE NO EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITIONS.
- ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES. THE DRAWINGS HIGHLIGHT SPECIAL CONDITIONS ONLY AND BY NO MEANS ILLUSTRATE EVERY CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR IMPROVING CONNECTION ACCORDINGLY.
- CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE OR TO HAVE A LONG LEAD TIME, THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.
- CONTRACTOR SHALL NOTIFY THE OWNER, THE LANDLORD, AND THE ARCHITECT IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING WORK PRIOR TO THE COMMENCEMENT OF THE WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.
- CONTRACTOR SHALL EXERCISE INDUSTRY BEST PRACTICES FOR CARE AND CAUTION DURING THE CONSTRUCTION OF THE WORK, AND SHALL SCHEDULE WORK TO MINIMIZE DISTURBANCES TO OCCUPANTS. ADJACENT SPACES AND/OR STRUCTURES, PROPERTY, PUBLIC THOROUGHFARES, ETC. THE GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS DURING CONSTRUCTION PROCEDURES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED.
- ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS FROM THE WORK PROVIDED UNDER THIS CONTRACT AND LEAVE ALL AREAS CLEAN. TRASH IS NOT PERMITTED TO BE BURNED ON SITE.
- ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS. REMOVE ALL ABANDONED PIPE SLEEVES IN FLOOR SLABS. PATCH EXISTING SLAB AS REQUIRED TO MAINTAIN UL FIRE RATING OF FLOOR SLAB WHERE PIPES AND CONDUITS HAVE BEEN REMOVED.
- SLAB PENETRATIONS SHALL BE SEALED AS REQUIRED TO MAINTAIN FIRE RATING, USING MATERIALS AND METHODS APPROVED BY THE AUTHORITY HAVING JURISDICTION. EXPANSION MATERIAL SHALL BE APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES. REQUIRED ACCESS PANELS SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.
- CONTRACTOR SHALL PROVIDE THE TEAM WITH A CONSTRUCTION SCHEDULE SHOWING THE PROPOSED PHASING. LONG LEAD ITEMS THAT WILL AFFECT THE SUBSTANTIAL COMPLETION DATE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.



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WFCAC Black Box Addition PKG 1

KEY PLAN
NORTH, PLAN, TRUE

ALAMO COLLEGES
ST. PHILIP'S COLLEGE

CLIENT: Alamo Colleges
DATE: 2024/06/14 PROJECT NUMBER: 230462

No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER: 1

GENERAL PROJECT INFORMATION

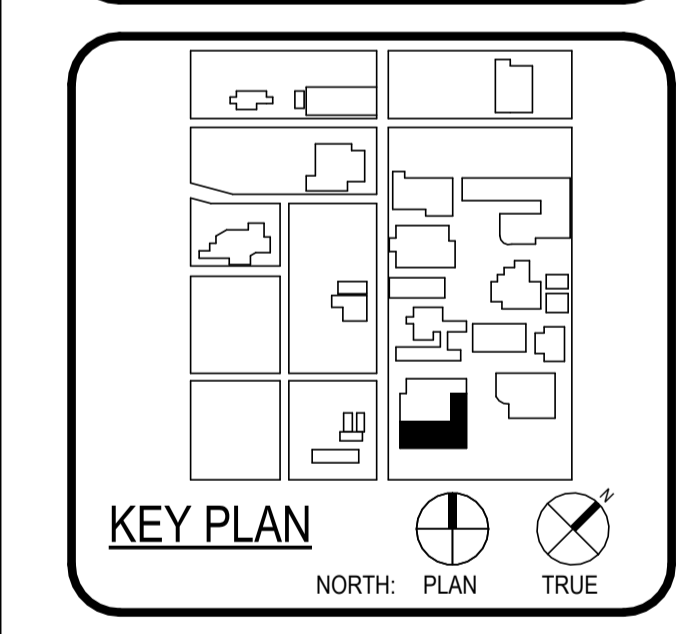
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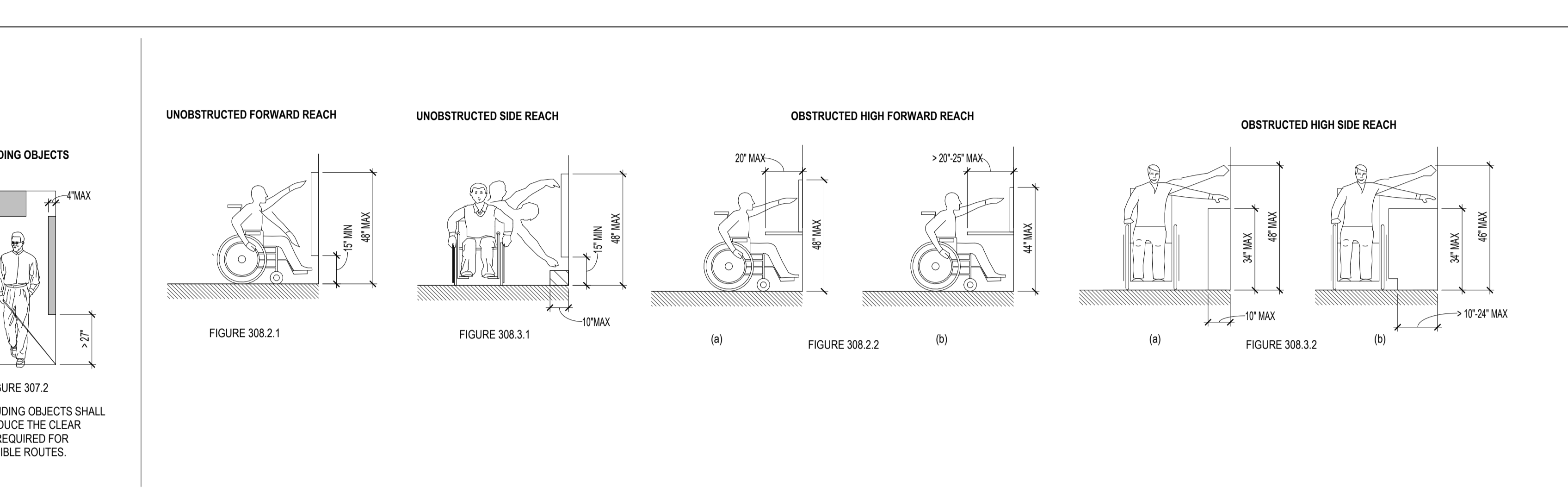
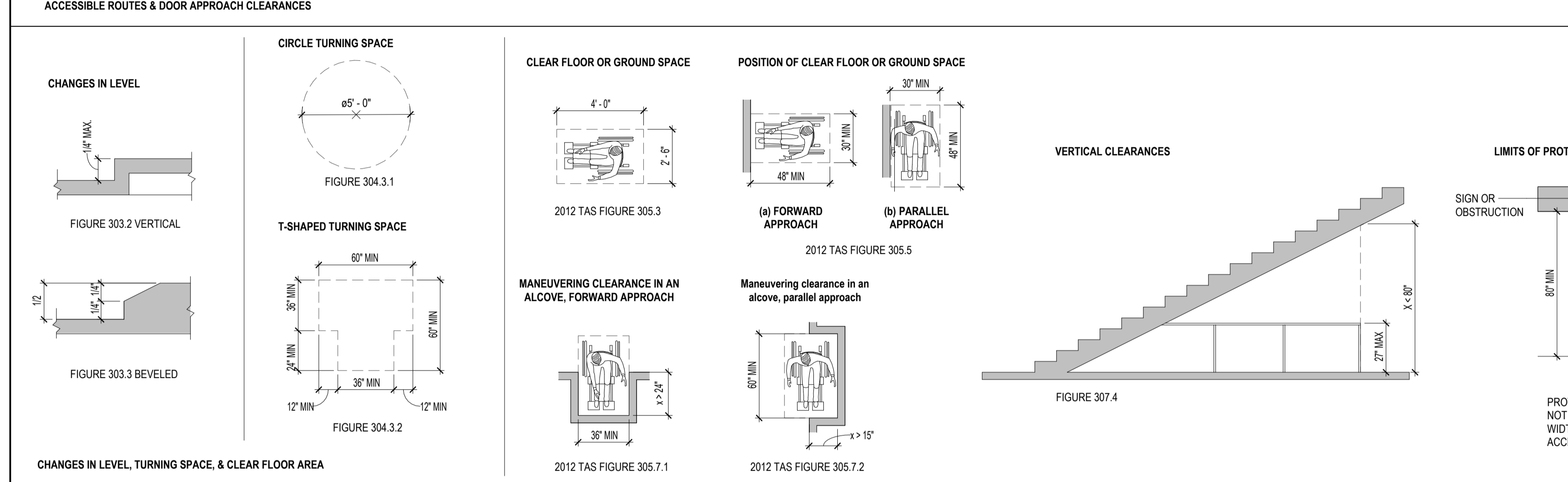
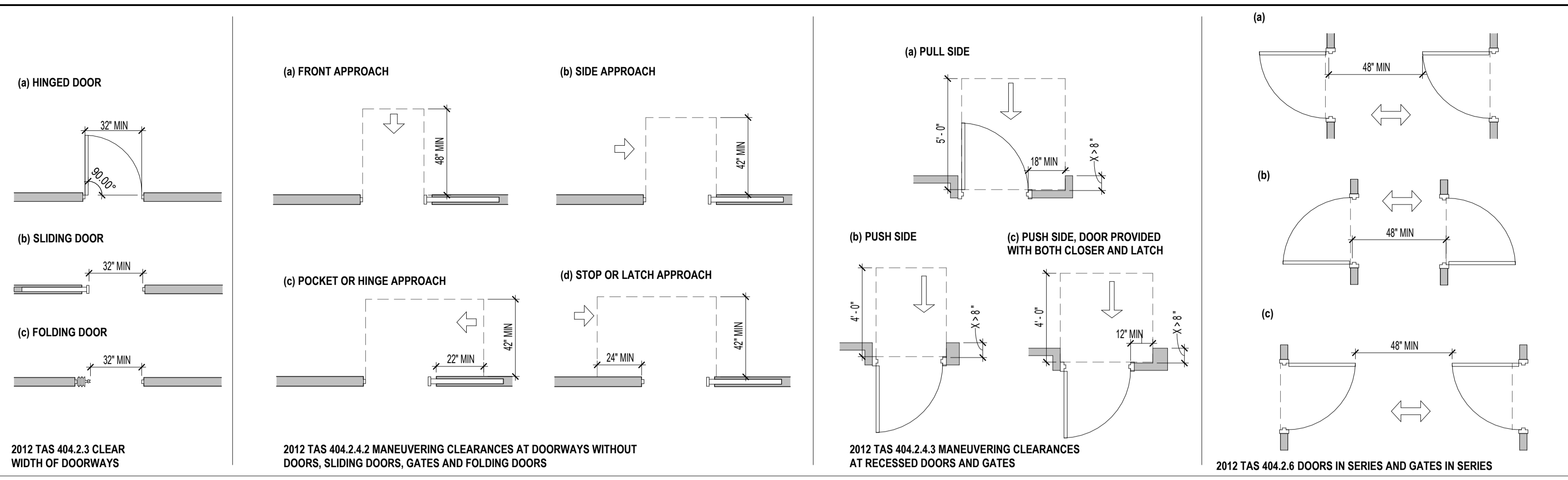
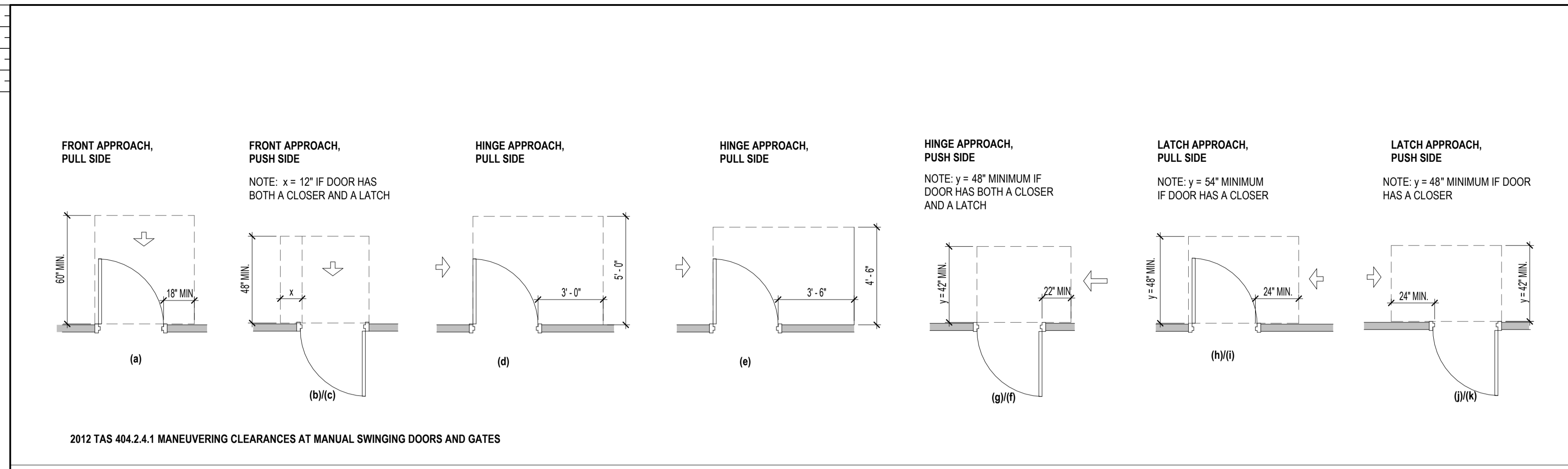
ALAMO COLLEGES
 ST. PHILIP'S COLLEGE



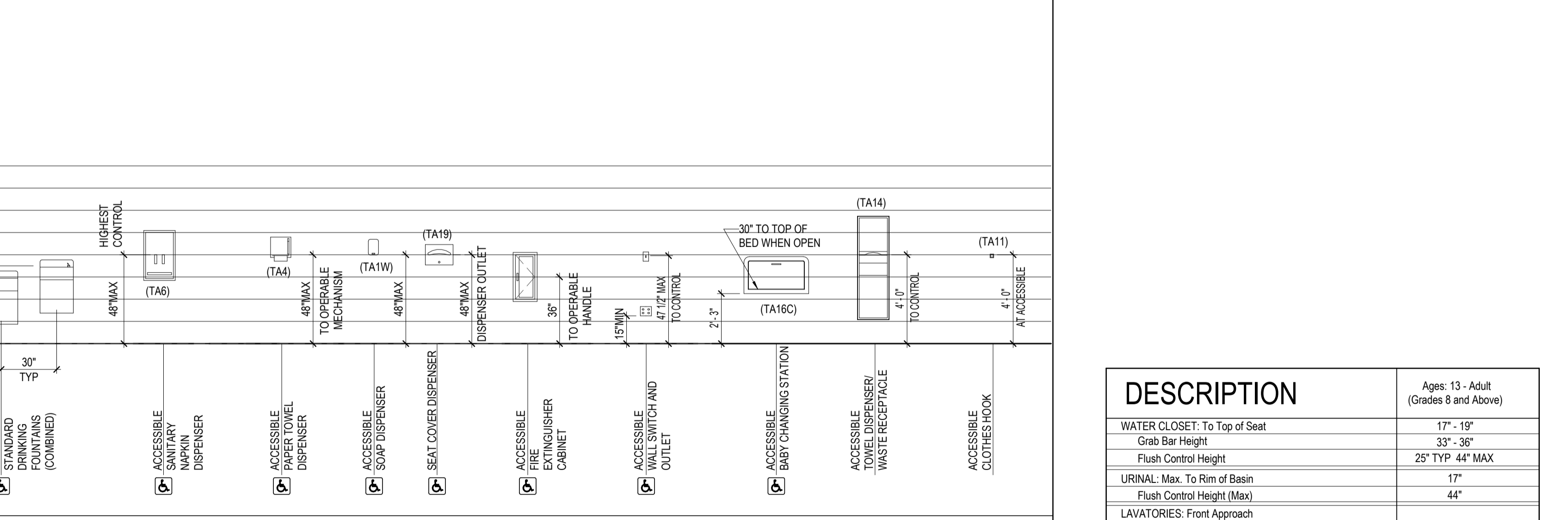
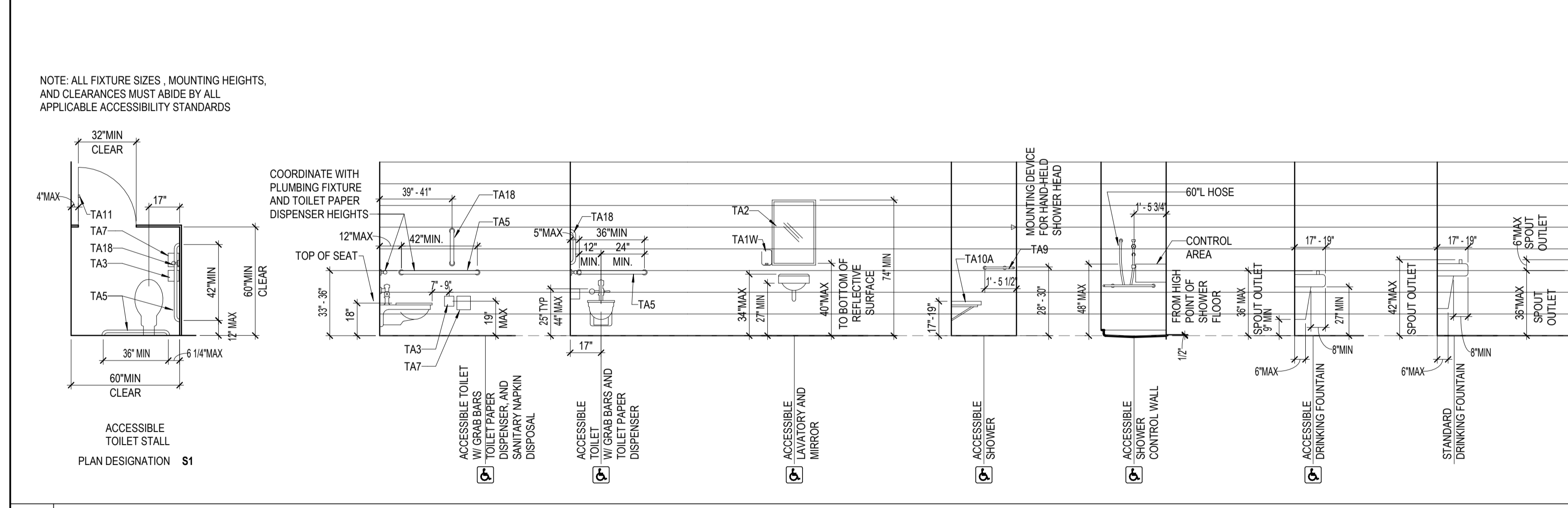
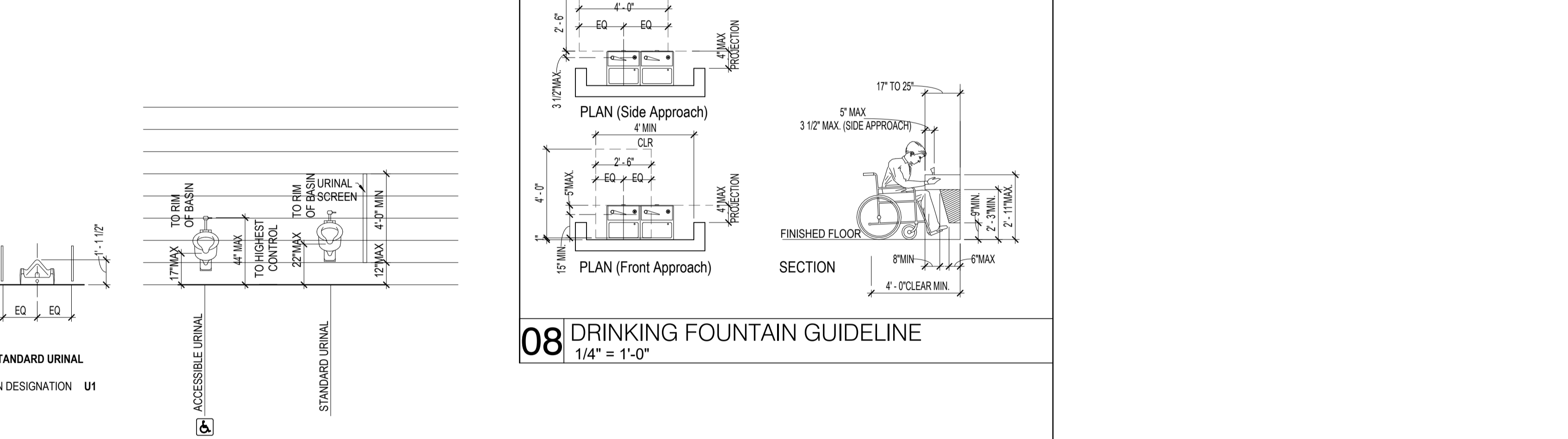
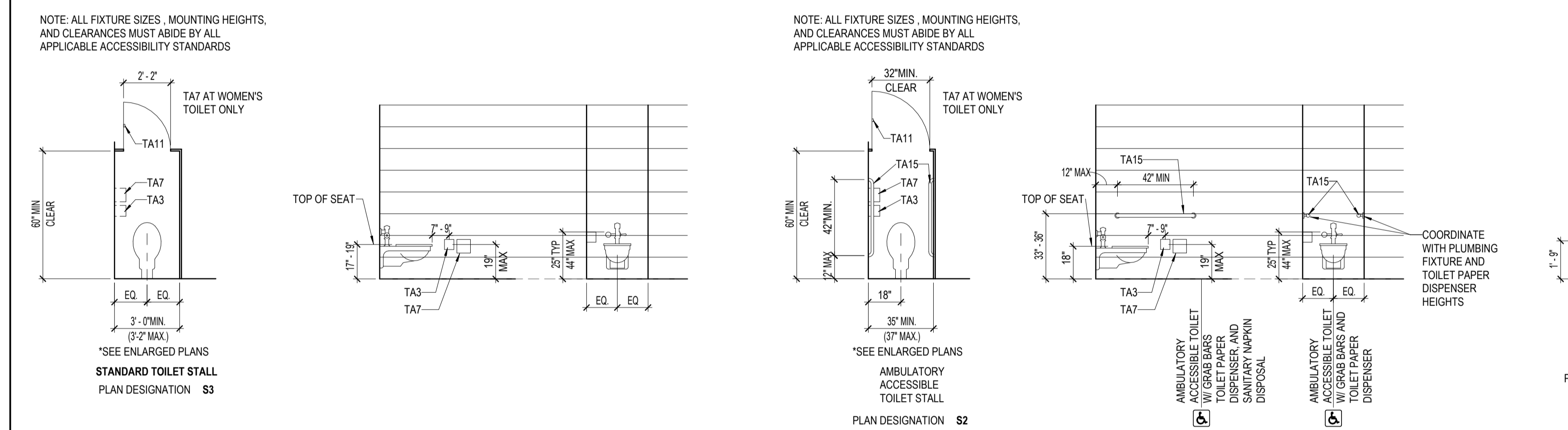
CLIENT: Alamo Colleges
 DATE: 2024/06/14
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ISSUE FOR CONSTRUCTION
 BUILDING NUMBER: 1

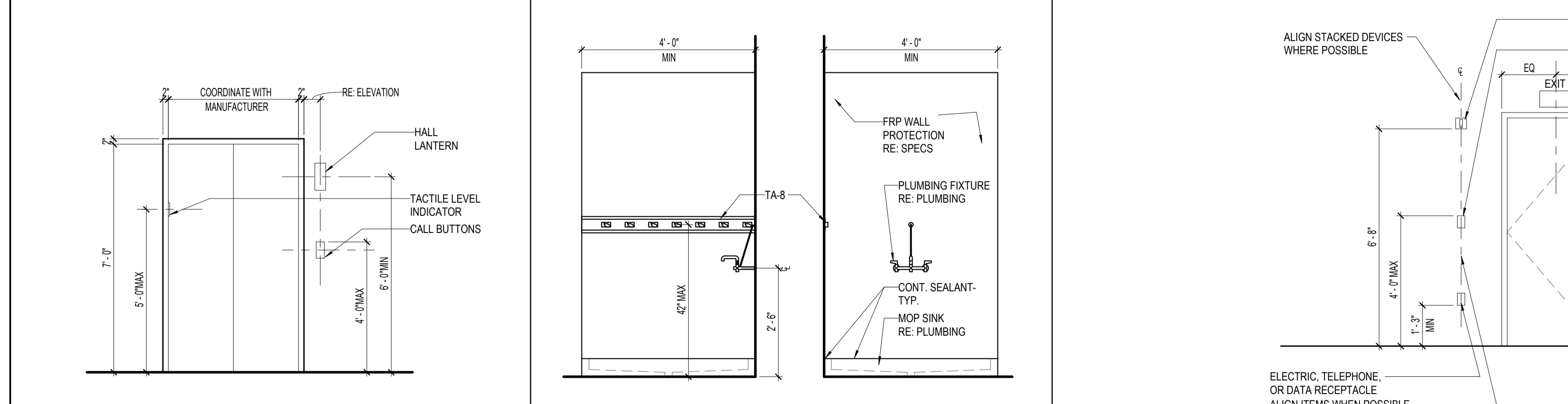
TEXAS ACCESSIBILITY STANDARDS
 G-021



24 TEXAS ACCESSIBILITY STANDARDS
 1/4" = 1'-0"



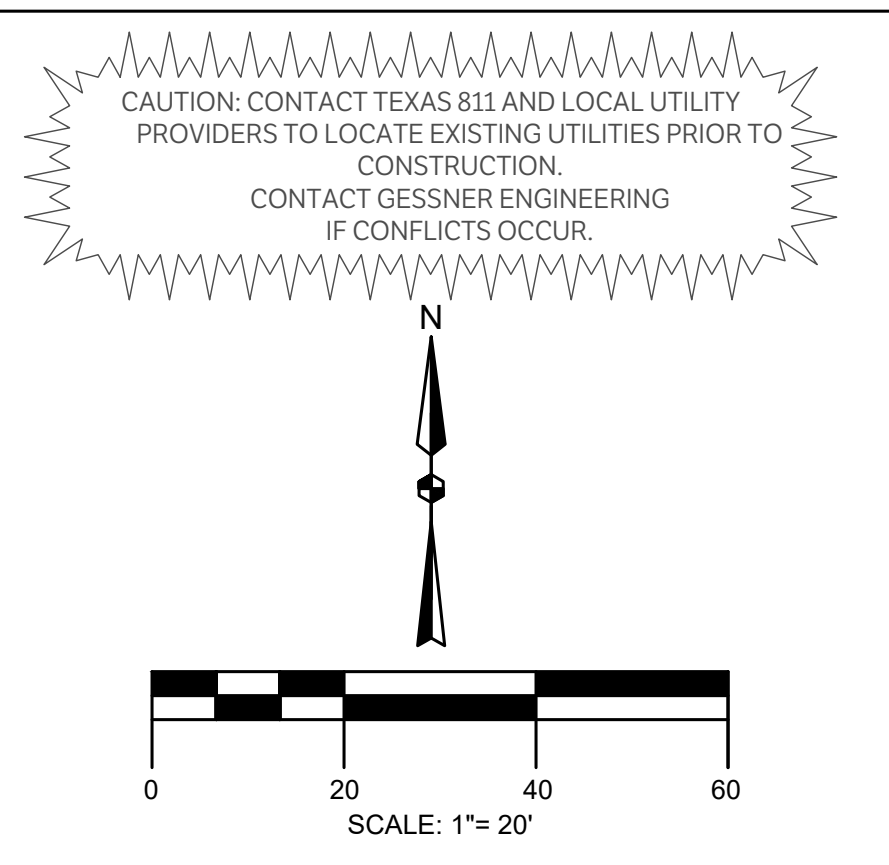
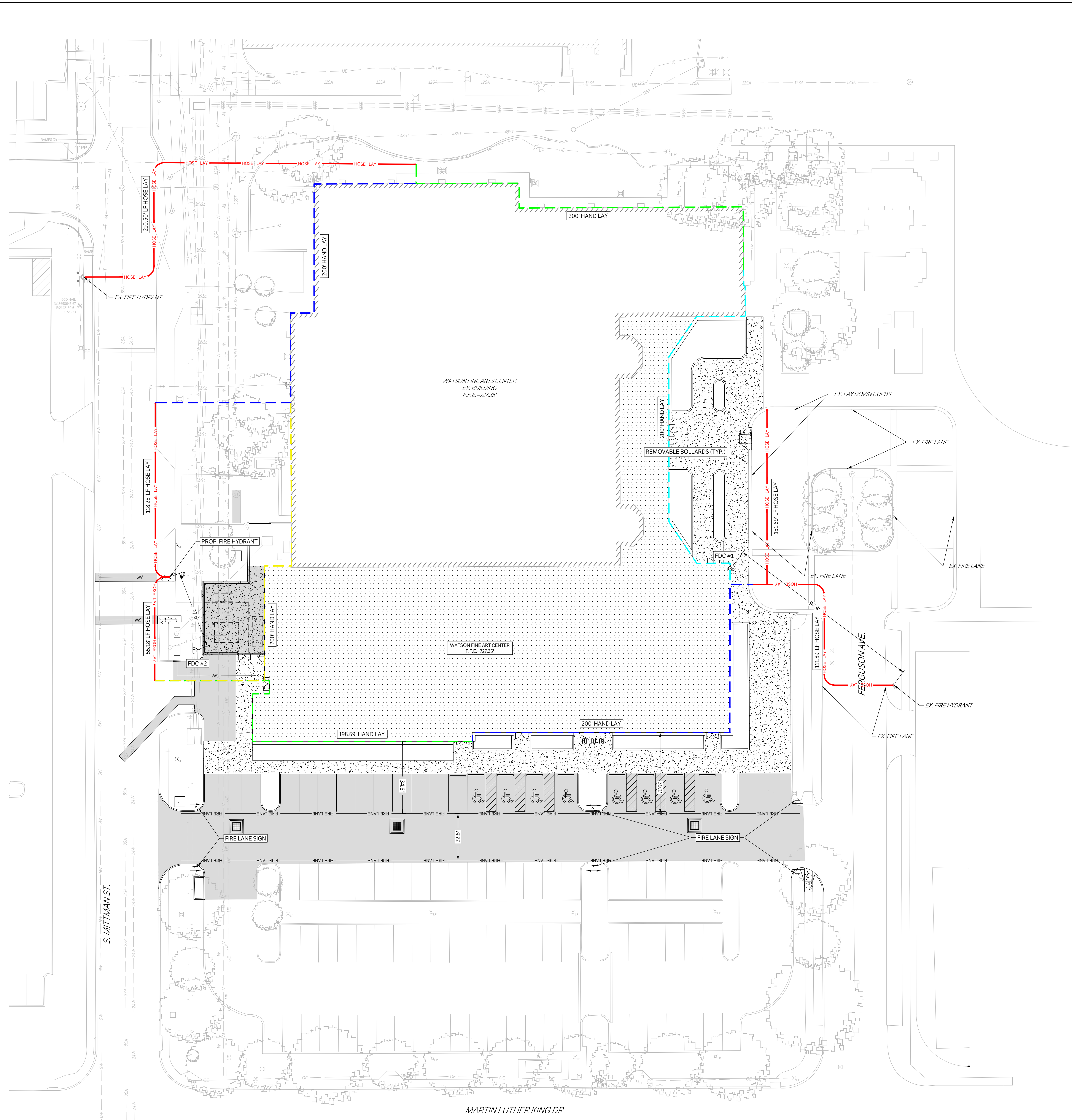
12 ACCESSIBILITY - AGES 13 THRU ADULT (GRADES 8 AND ABOVE)
 1/4" = 1'-0"



DESCRIPTION	AGES 13 - ADULT (GRADES 8 AND ABOVE)
WATER CLOSET: To Top of Seat	17" - 19"
Grab Bar Height	33" - 38"
Flush Control Height	25" TYP 44" MAX
URINAL: Max. To Rim of Basin	17"
Knee Clearance (Min)	44"
LAVATORIES: Front Approach	27"
Knee Clearance (Min)	27"
To Top (Max)	34"
To Faucet (Max)	29"
FIXED OR BUILT-IN: Height of Tables or Counter	28" - 34"
Knee Clearance (Min)	27"
SHELVES, DISPENSERS: Max. Height to Control Device	48"
Frontal Approach (Max)	48"
Side Approach (Max)	48"
DRINKING FOUNTAINS: To Spout (Max)	36"
Knee Clearance (Min)	27"
SWITCHES AND CONTROLS: Frontal Approach (Max)	48"
Side Approach (Max)	48"
MIRRORS: Max. Height to Bottom of Reflective Surface	40"
At Lavatories and Counter Tops	35"
Full Length	40"
MIRRORS: Min. Height to Top of Reflective Surface	74"
Full Length	74"
TOILET PAPER DISPENSER: Height to Center of Roll (Max)	19"
PAPER TOWEL DISPENSER: Height to Operating Mechanism	48"
SHOWER: Top of Seat	17" - 19"
Grab Bar	33" - 38"
To Hand Shower Head Mounting (Max)	48"



ISSUE FOR CONSTRUCTION



LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
[Symbol]	PROPOSED EASEMENT
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
[Symbol]	EX. PROP. STORM LINE
[Symbol]	EX. PROP. WATER LINE
[Symbol]	EX. PROP. SANITARY SEWER LINE
[Symbol]	EXISTING THERMALS
[Symbol]	PROPOSED THERMALS
[Symbol]	EX. PROP. GAS LINE
[Symbol]	EX. PROP. DATA/TELECOM
[Symbol]	EX. PROP. UNDERGROUND ELECTRIC
[Symbol]	EX. PROP. FIBER OPTIC
[Symbol]	EX. PROP. OVERHEAD ELECTRIC
[Symbol]	EX. PROP. FIRE HYDRANT
[Symbol]	EX. PROP. WATER METER
[Symbol]	EX. PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX. PROP. SANITARY SEWER MANHOLE
[Symbol]	EX. PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX. PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT

FIRE PROTECTION INFO

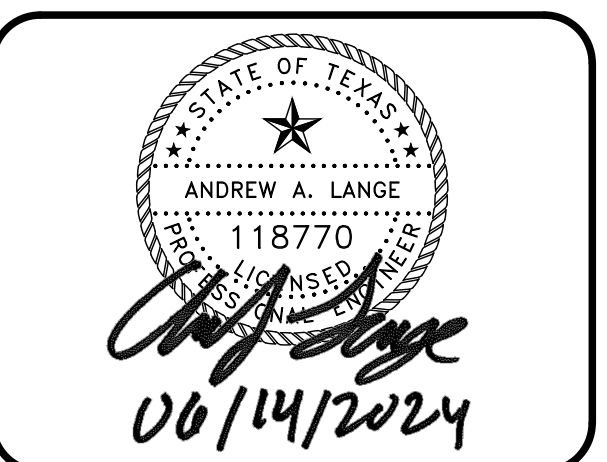
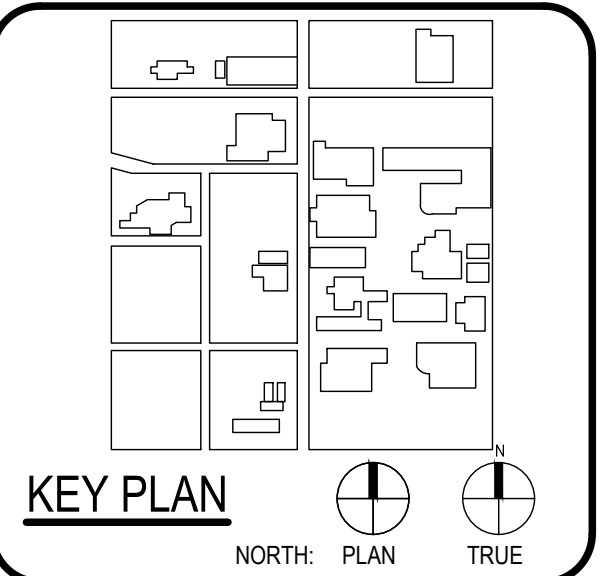
OWNER:	ST. PHILLIPS COLLEGE
SITE AREA (SF)	21,863
NO. OF STORIES	1
PROPOSED BUILDING	TOTAL GSF HEIGHT TYPE
	26,114 38 ft IIB
TOTAL REQUIRED FLOW (GPM)	3,500
BUILDING SPRINKLER SYSTEM:	YES
REDUCTION DUE TO SPRINKLERS:	75%
FINAL REQUIRED FIRE FLOW	875
AVAILABLE FLOW @ 20 PSI (GPM)	940



ARCHITECT: SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT: SH & AL ARCHITECTS
1311 N. LOOP WEST
SUITE 1000
SAN ANTONIO, TX 78205
LANDSCAPE: TONY & TONY LANDSCAPE ARCHITECTS
1111 W. 14TH STREET
SUITE 100
SAN ANTONIO, TX 78205
LUNY & HARRIS ENGINEERING
1111 W. 14TH STREET
SUITE 100
SAN ANTONIO, TX 78205
PROVIDER: TONY & TONY LANDSCAPE ARCHITECTS
1111 W. 14TH STREET
SUITE 100
SAN ANTONIO, TX 78205
TEAM LEADER: TONY & TONY LANDSCAPE ARCHITECTS
1111 W. 14TH STREET
SUITE 100
SAN ANTONIO, TX 78205

WFAC Black Box Addition PKG 1



CLIENT: Alamo Colleges

DATE: 2024/06/12 PROJECT NUMBER: 230462

DRAWING HISTORY

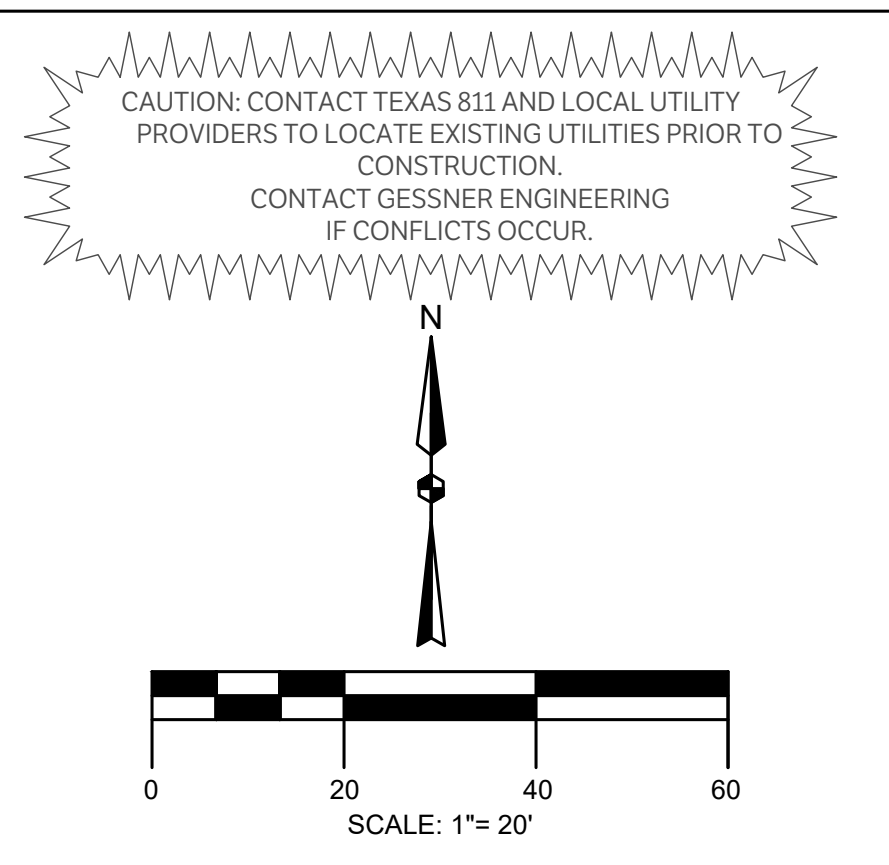
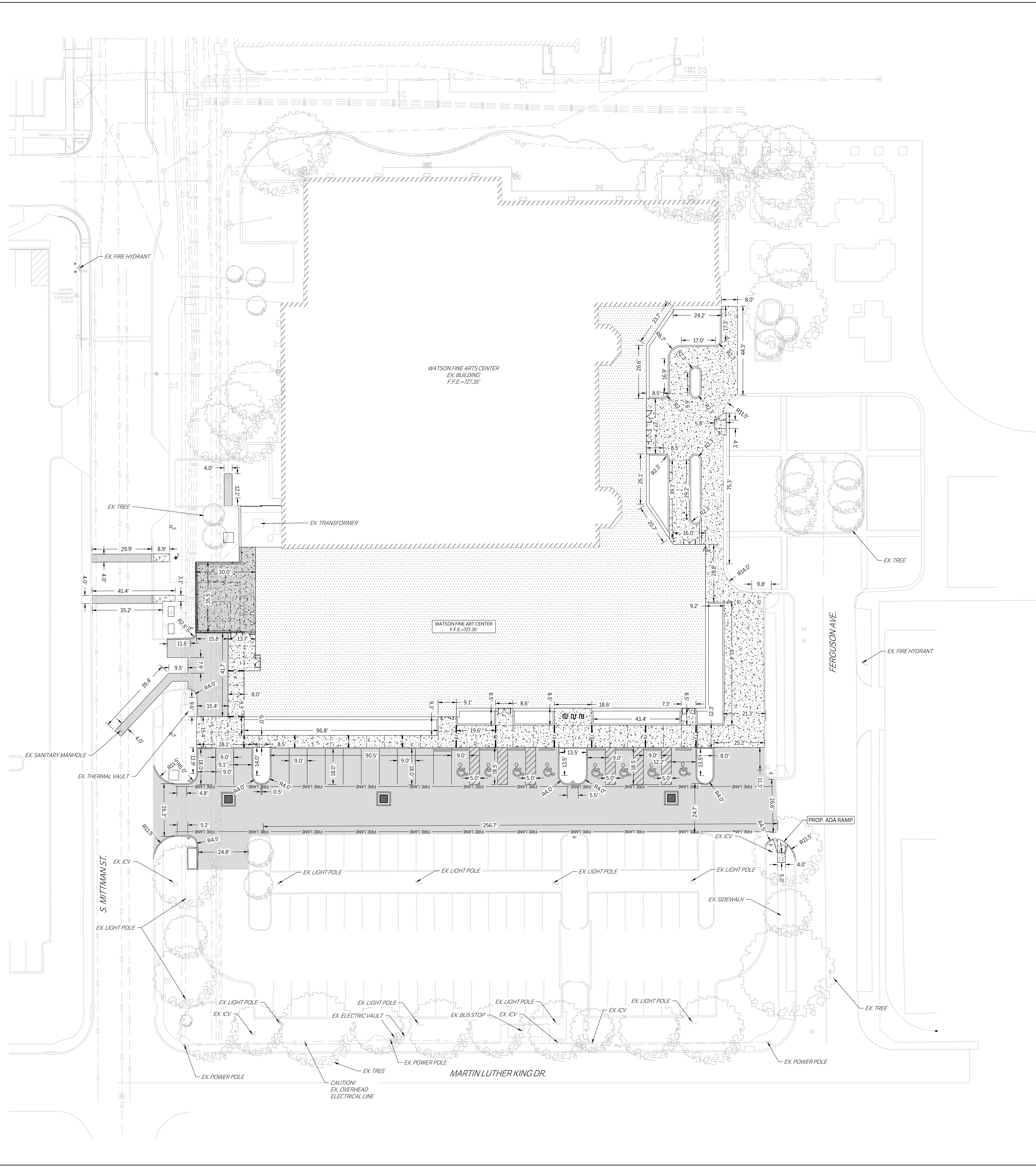
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER

SITE FIRE PLAN

ISSUE FOR CONSTRUCTION

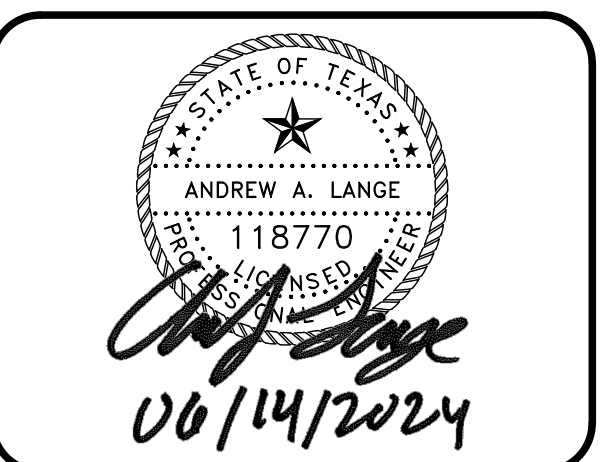
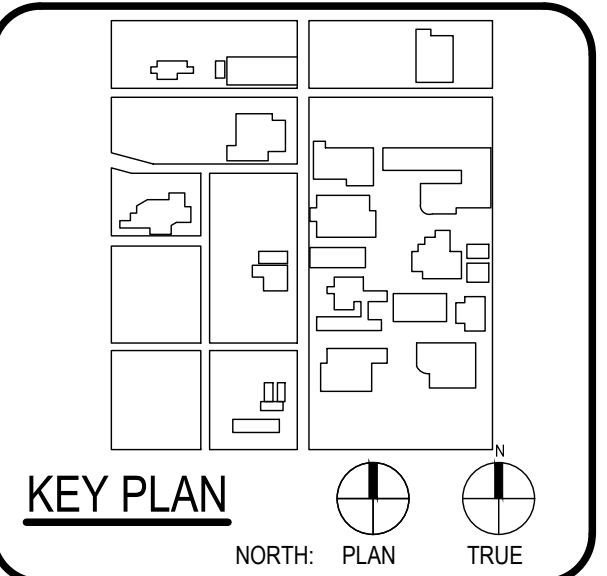


LEGEND	
[Pattern]	PROPOSED ASPHALT PAVEMENT
[Pattern]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Pattern]	PROPOSED 4" CONCRETE SIDEWALK
[Pattern]	PROPOSED BUILDING
[Line]	EXISTING PAVEMENT EDGE
[Line]	PROPERTY LINE
[Line]	EXISTING EASEMENT
[Line]	PROPOSED EASEMENT
[Line]	EXISTING CONTOURS
[Line]	PROPOSED CONTOURS
[Line]	EX. PROP. STORM LINE
[Line]	EX. PROP. WATER LINE
[Line]	EX. PROP. SANITARY SEWER LINE
[Line]	EXISTING THERMALS
[Line]	PROPOSED THERMALS
[Line]	EX. PROP. GAS LINE
[Line]	EX. PROP. DATA/TELECOM
[Line]	EX. PROP. UNDERGROUND ELECTRIC
[Line]	EX. PROP. FIBER OPTIC
[Line]	EX. PROP. OVERHEAD ELECTRIC
[Symbol]	EX. PROP. FIRE HYDRANT
[Symbol]	EXPANSION JOINT
[Symbol]	EX. PROP. WATER METER
[Symbol]	CONTRACTION JOINT
[Symbol]	EX. PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX. PROP. SANITARY SEWER MANHOLE
[Symbol]	EX. PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX. PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE ARCHITECT	BA & ARCHITECTS
MECHANICAL ENGINEER	BA & ARCHITECTS
ELECTRICAL ENGINEER	BA & ARCHITECTS
CIVIL ENGINEER	BA & ARCHITECTS
PLUMBING ENGINEER	BA & ARCHITECTS
STRUCTURAL ENGINEER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS
TRUCK DRIVER	BA & ARCHITECTS

WFAC Black Box Addition PKG 1



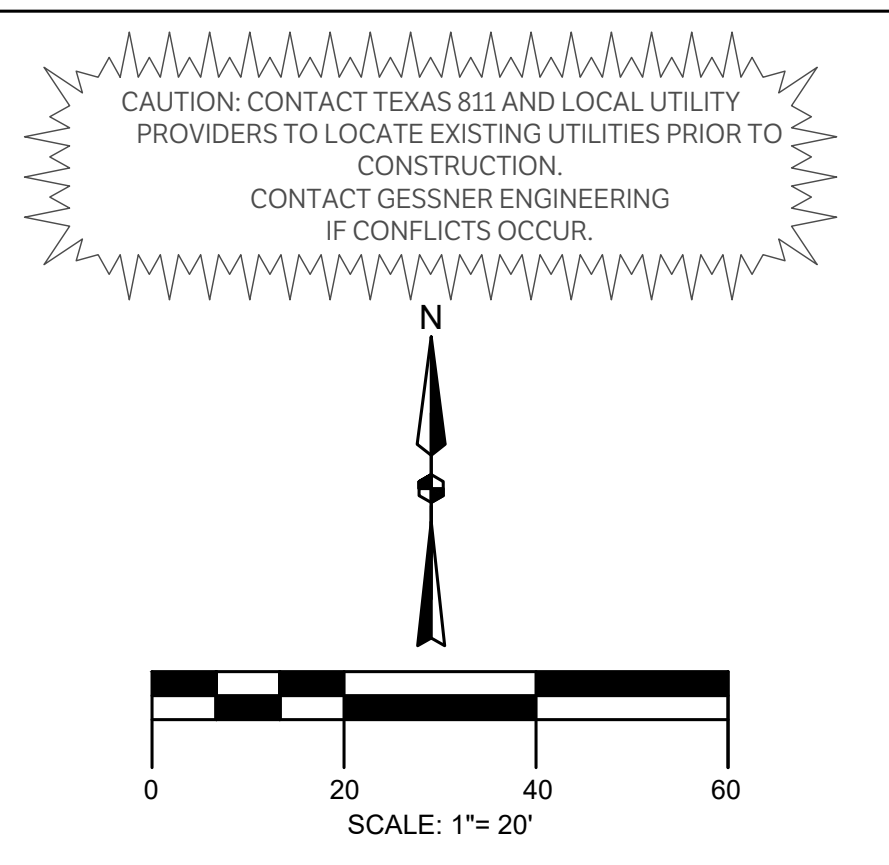
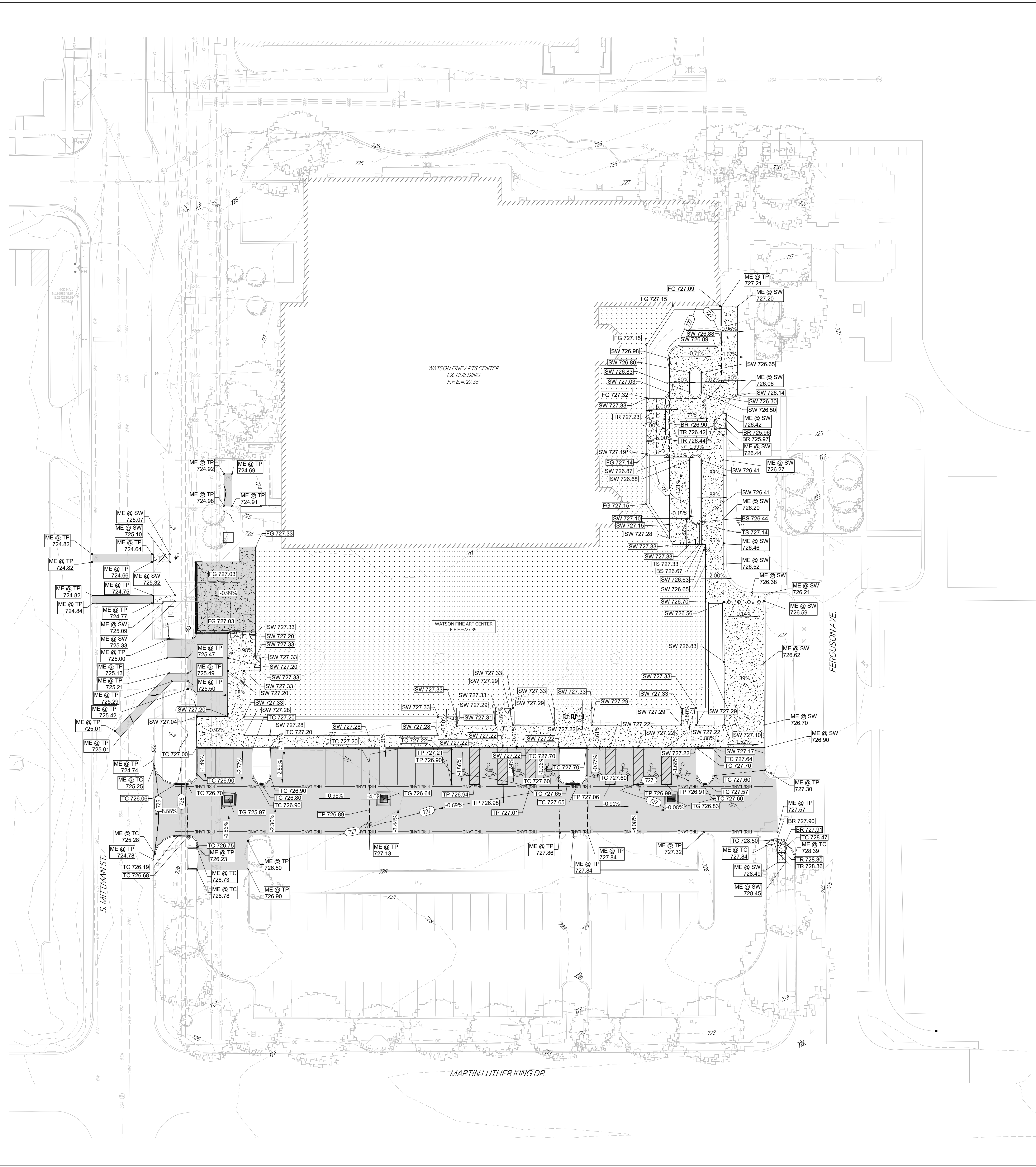
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER

DIMENSION CONTROL & PAVING PLAN

C202

ISSUE FOR CONSTRUCTION



LEGEND

- 340 --- EXISTING CONTOURS
- (340) — PROPOSED CONTOURS
- — — — — PROPERTY LINE
- — — — — PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- — — — — GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED GRADE ELEVATION
- FL PROPOSED FLOWLINE ELEVATION
- G PROPOSED GUTTER FLOWLINE ELEVATION
- GB PROPOSED GRADE BREAK
- JB PROPOSED TOP OF JUNCTION BOX ELEVATION
- ME @ SW MATCH EXISTING SIDEWALK ELEVATION
- ME @ TC MATCH EXISTING TOP OF CURB ELEVATION
- ME @ TP MATCH EXISTING AT TOP OF PAVEMENT ELEVATION
- SW PROPOSED TOP OF PAVEMENT AT SIDEWALK ELEVATION
- TC PROPOSED TOP OF CURB ELEVATION
- TG PROPOSED TOP OF GRATE ELEVATION
- TP PROPOSED TOP OF PAVEMENT ELEVATION
- TR PROPOSED TOP OF RAMP ELEVATION
- TW PROPOSED TOP OF WALL ELEVATION
- TMS PROPOSED TOP MUD SLAB
- BMS PROPOSED BOTTOM OF MUD SLAB



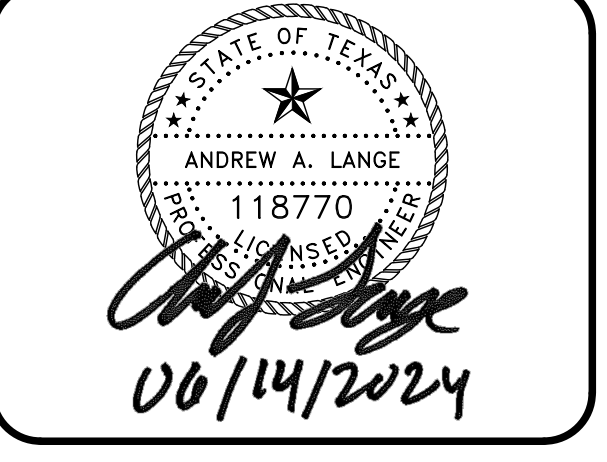
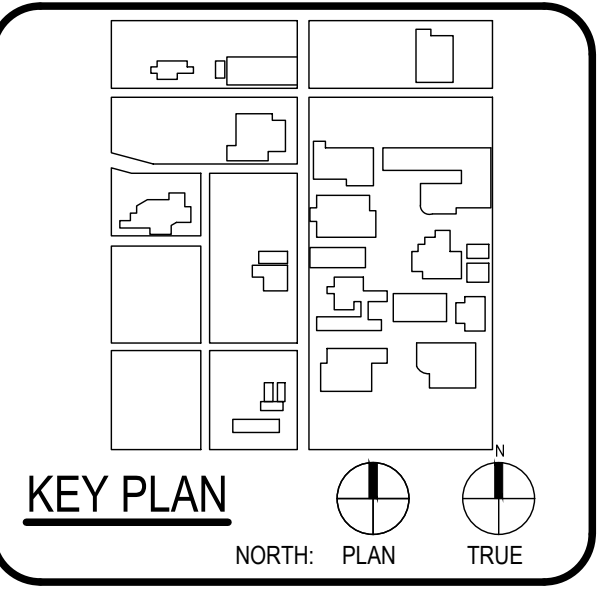
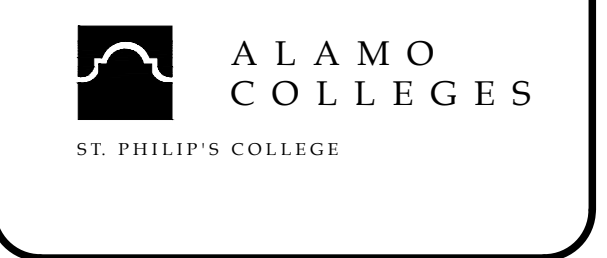
ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

REGISTERED PROFESSIONALS

ARCHITECT	12/20/19
LANDSCAPE	12/20/19
ENGINEER	12/20/19
PLUMBER	12/20/19
ELECTRICAL	12/20/19
Mechanical	12/20/19
Surveying	12/20/19
Professional Seal	12/20/19

WFAC Black Box Addition PKG 1

600 S. Miltman St.
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT: Alamo Colleges
DATE: 2024/06/12 PROJECT NUMBER: 230462

DRAWING HISTORY		
No.	Description	Date

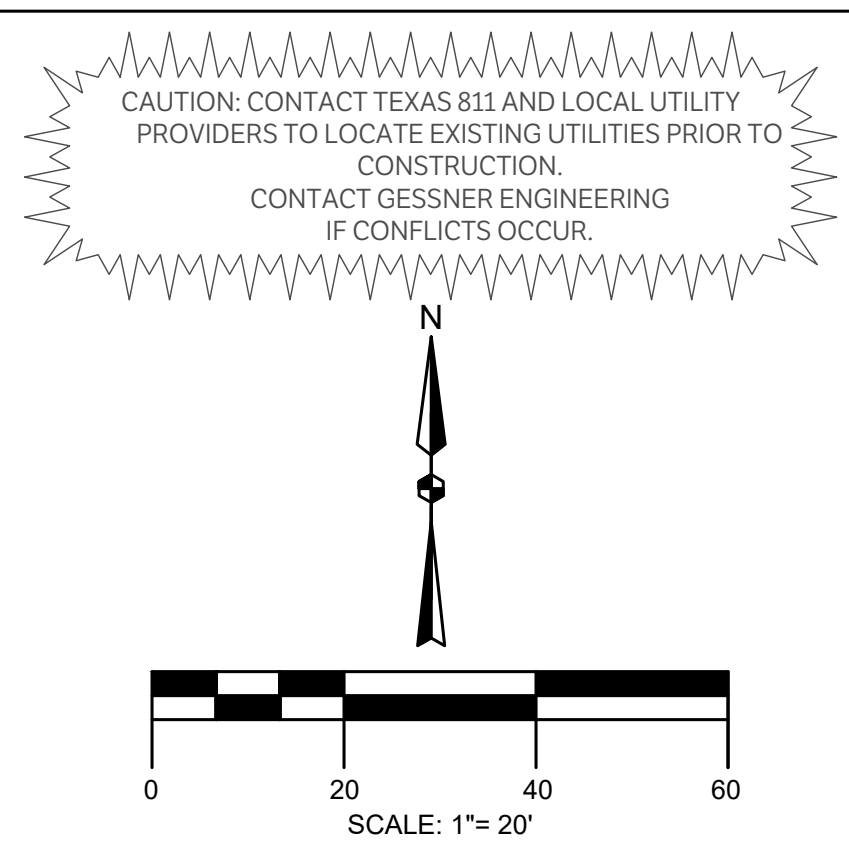
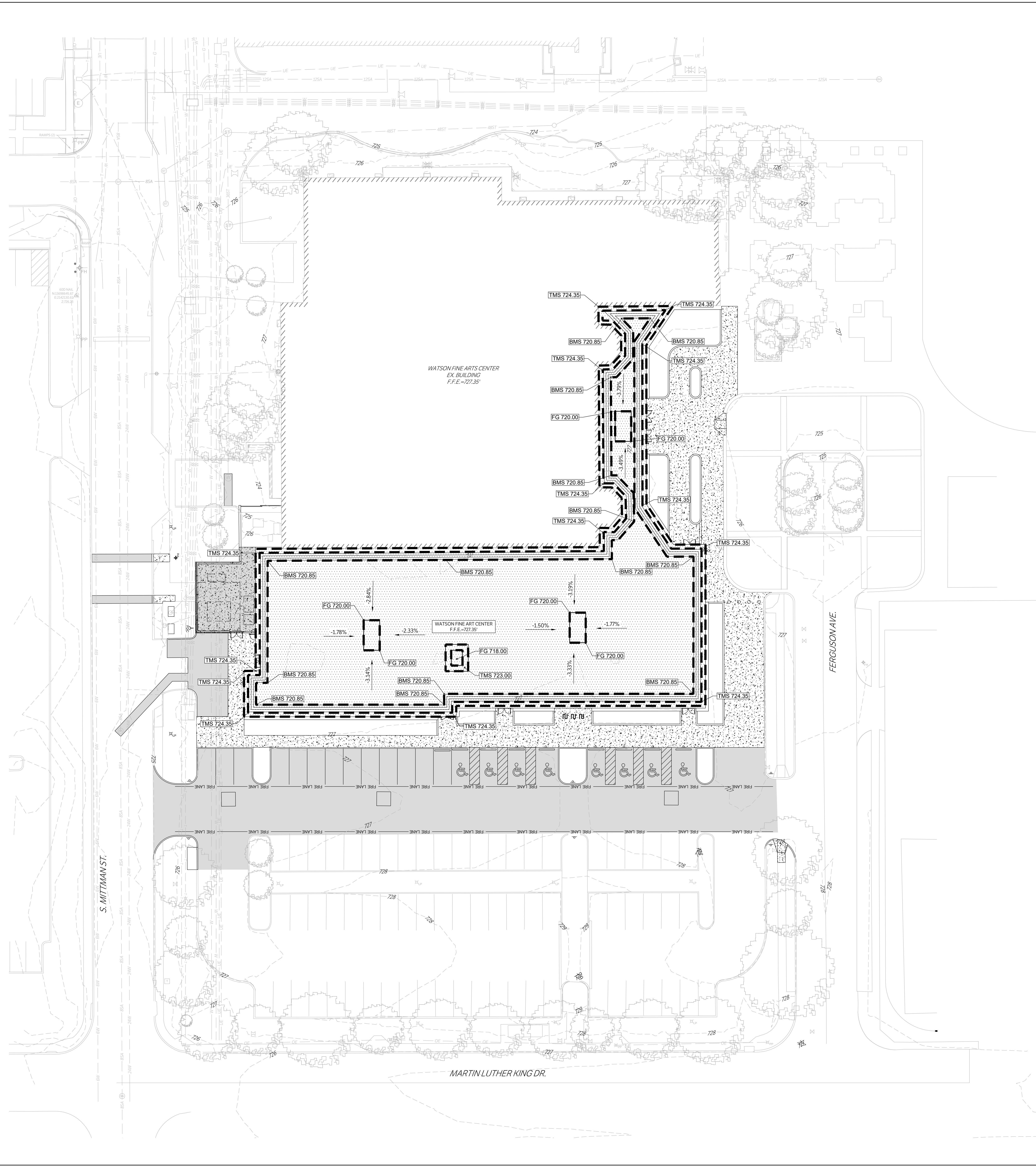
ISSUE FOR CONSTRUCTION

BUILDING NUMBER

GRADING PLAN

C400

ISSUE FOR CONSTRUCTION



LEGEND

- 340 --- EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED GRADE ELEVATION
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- TR PROPOSED TOP OF RAMP ELEVATION
- TW PROPOSED TOP OF WALL ELEVATION
- TMS PROPOSED TOP MUD SLAB
- BMS PROPOSED BOTTOM OF MUD SLAB

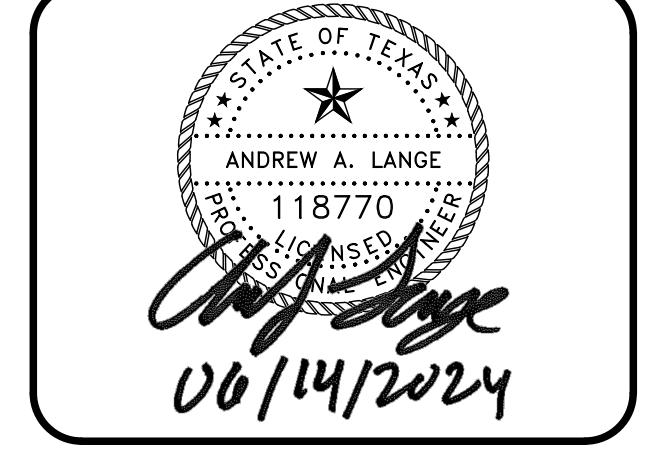
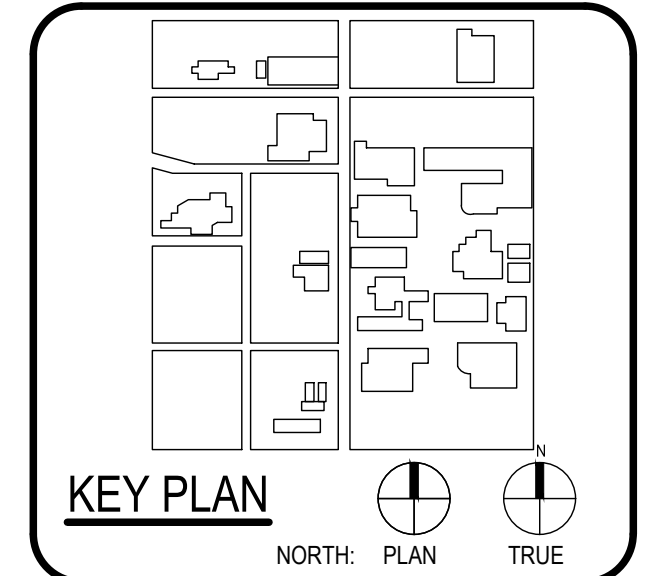
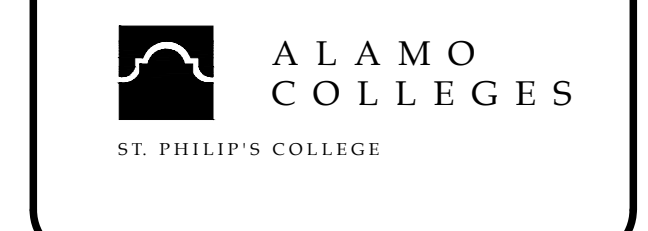


ARCHITECT SAN ANTONIO PBK Architects, Inc.
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210-829-0123 P
210-829-0578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT BA & ARCHITECTS
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75201
214-760-1000
LINDY & TRAVIS ENGINEERING
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75201
214-760-1000
MEAN PROFESSIONALS
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75201

WFAC Black Box Addition PKG 1

600 S. Mittman St.
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



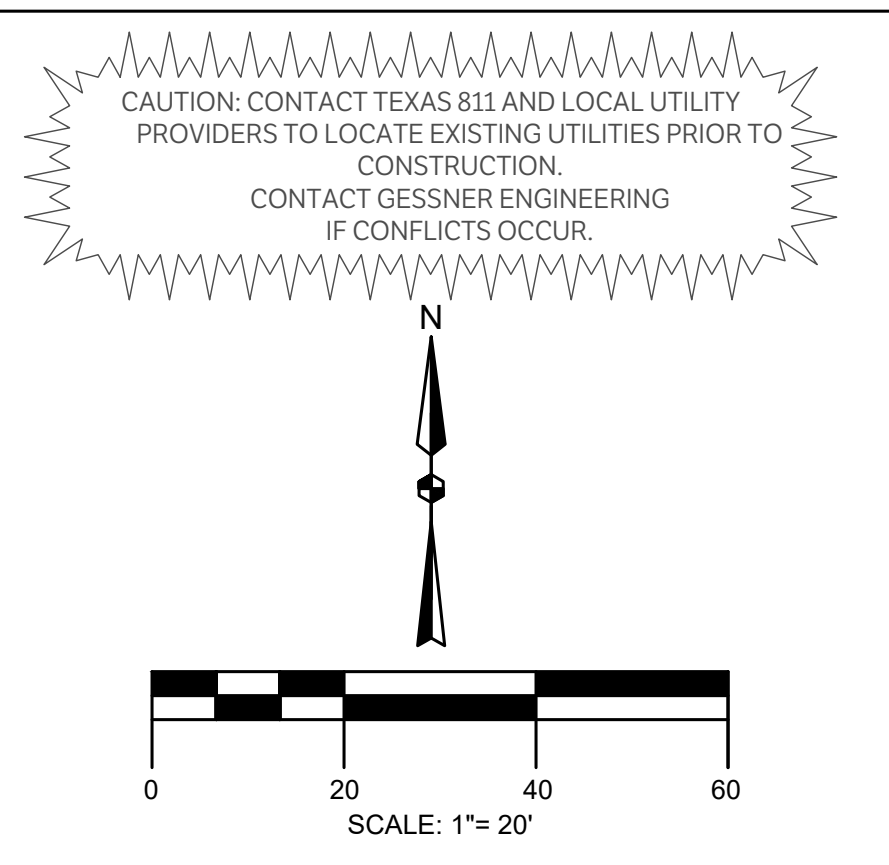
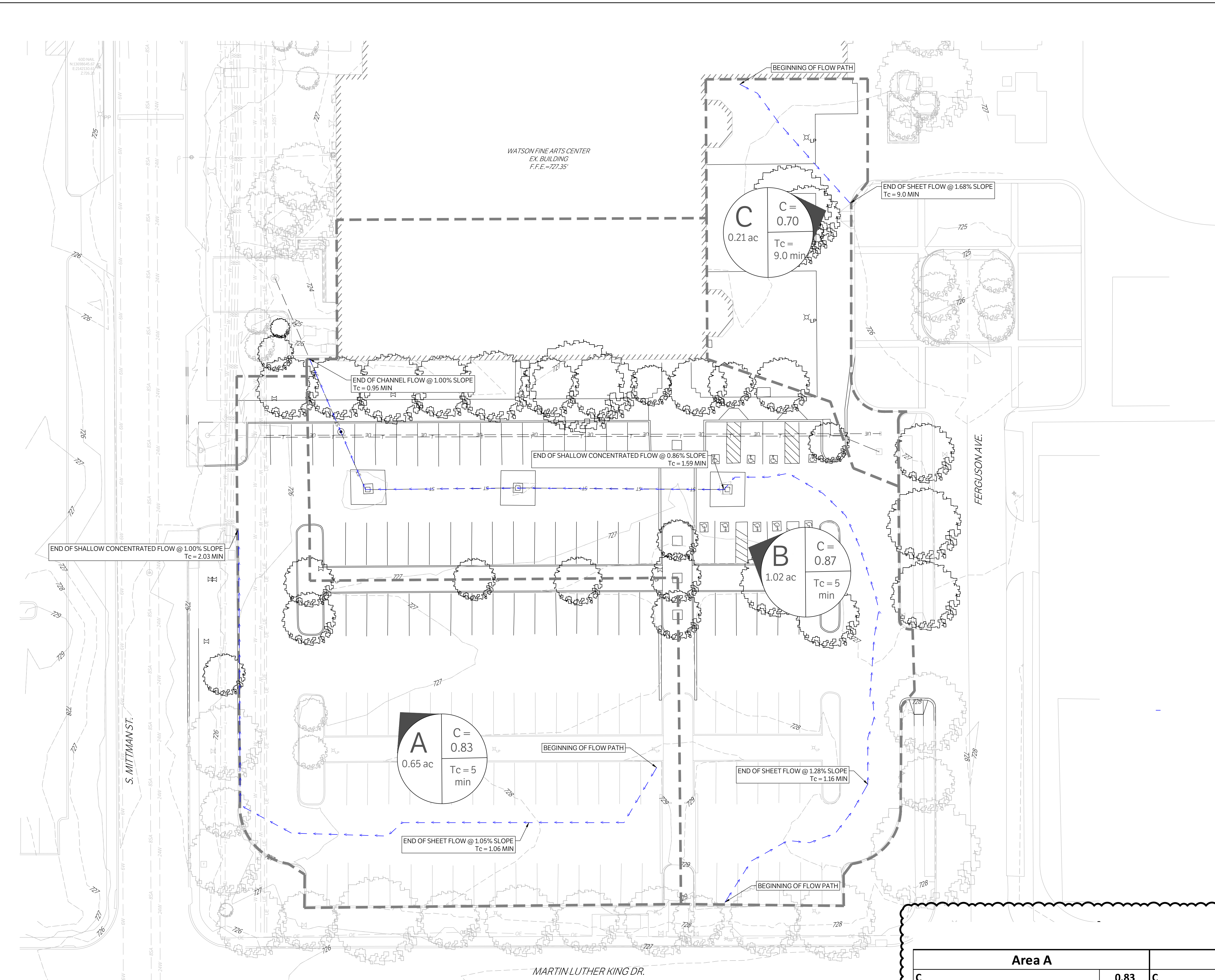
CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/06/12	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER

CRAWLSPACE

C401

ISSUE FOR PERMIT



LEGEND

- DRAINAGE AREA BOUNDARY
- ⊙ A1 DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- - - - - EXISTING CONTOURS
- PROPOSED CONTOURS
- FLOW PATH

Pre AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	23001.03	0.53	0.50
Grass Cover	Grass Cover > 75%	0.35	5475.37	0.13	0.04
TOTAL			28476.40	0.65	0.55
			C		0.83

Pre AREA B					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	38420.17	0.88	0.84
Grass Cover	Grass Cover > 75%	0.35	6070.51	0.14	0.05
TOTAL			44490.68	1.02	0.89
			C		0.87

Pre AREA C					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	5207.16	0.12	0.11
Grass Cover	Grass Cover > 75%	0.35	3951.23	0.09	0.03
TOTAL			9158.39	0.21	0.15
			C		0.70

PRE DEVELOPMENT PEAK RUNOFF

AREA	SIZE (AC)	C	TC (MIN)	1 YR (CFS)	5 YR (CFS)	25 YR (CFS)	100 YR (CFS)
A	0.65	0.83	5.0	2.9	4.2	5.9	7.4
B	1.02	0.87	5.0	4.7	7.0	9.7	12.2
C	0.21	0.70	9.0	0.7	1.0	1.3	1.6

Atlas 14 Rainfall Intensity (in/hr)

Time (minutes)	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

Pre

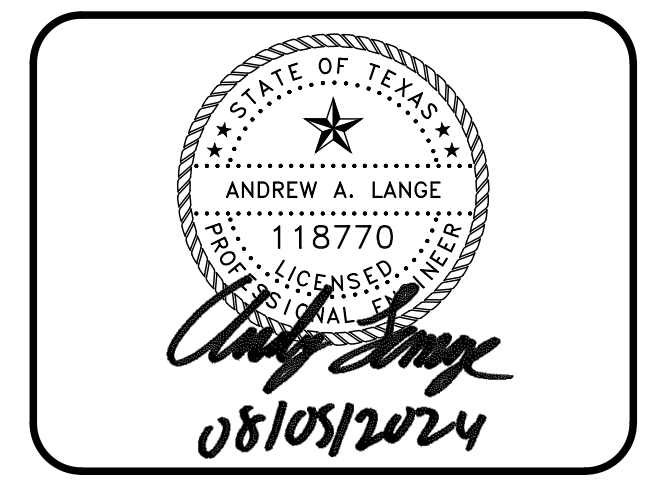
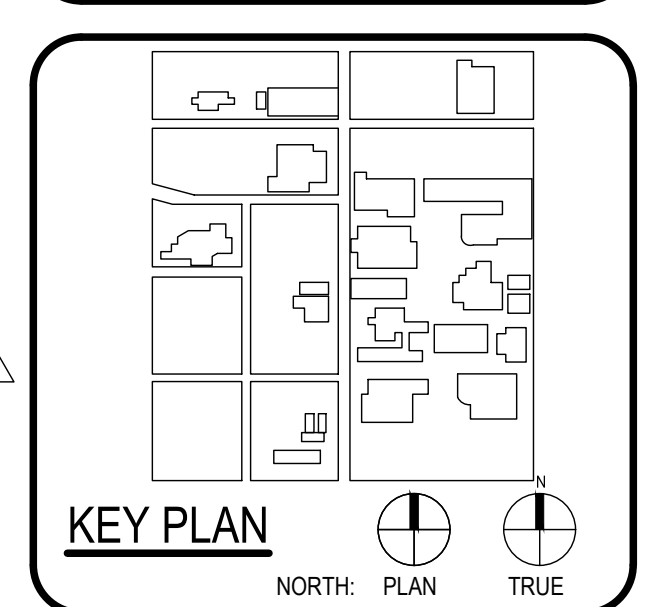
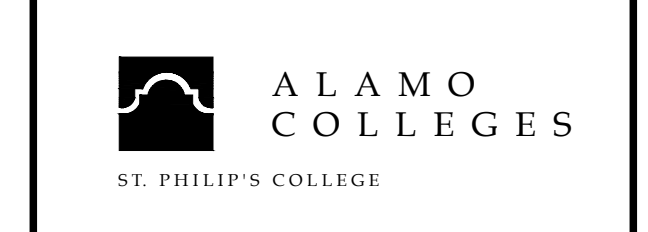
Area A		Area B		Area C	
C	0.83	C	0.87	C	0.70
Area (ac)	0.65	Area (ac)	1.02	Area (ac)	0.21
Flow Length (ft)	315.12	Flow Length (ft)	479.97	Flow Length (ft)	70.70
SCS Sheet Flow (ft)	68.20	SCS Sheet Flow (ft)	85.32	SCS Sheet Flow (ft)	47.40
Slope (%)	1.02	Slope (%)	1.28	Slope (%)	1.78
Manning's Roughness	0.013	Manning's Roughness	0.013	Manning's Roughness	0.300
Flow Time (min)	1.06	Flow Time (min)	1.16	Flow Time (min)	8.91
SCS Shallow Concentrated Flow (ft)	246.92	SCS Shallow Concentrated Flow (ft)	180.17	SCS Sheet Flow (ft)	23.30
PAVEMENT		PAVEMENT		Slope (%)	1.57
Slope (%)	1.00	Slope (%)	0.86	Manning's Roughness	0.011
Velocity (ft/s)	2.03	Velocity (ft/s)	1.89	Flow Time (min)	0.38
Flow Time (min)	2.03	Flow Time (min)	1.59	Time of Concentration (min)	9.00
Time of Concentration (min)	3.09	SCS Channel Flow (ft)	153.60	*COSA requires min TOC of 5 min*	
COSA requires min TOC of 5 min		Slope (%)	0.21		
		Manning's Roughness	0.012		
		Velocity (ft/s)	2.95		
		Flow Time (min)	0.85		
		SCS Channel Flow (ft)	60.88		
		Slope (%)	1.79		
		Manning's Roughness	0.011		
		Velocity (ft/s)	6.50		
		Flow Time (min)	0.10		
		Time of Concentration (min)	3.70		
		COSA requires min TOC of 5 min			



ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1

600 S Miltman St.
San Antonio, TX 78203
ISSUE FOR PERMIT



CLIENT Alamo Colleges
DATE 2024/06/12 PROJECT NUMBER 230462

No.	Description	Date
1	ADDENDUM 1	08/05/2024

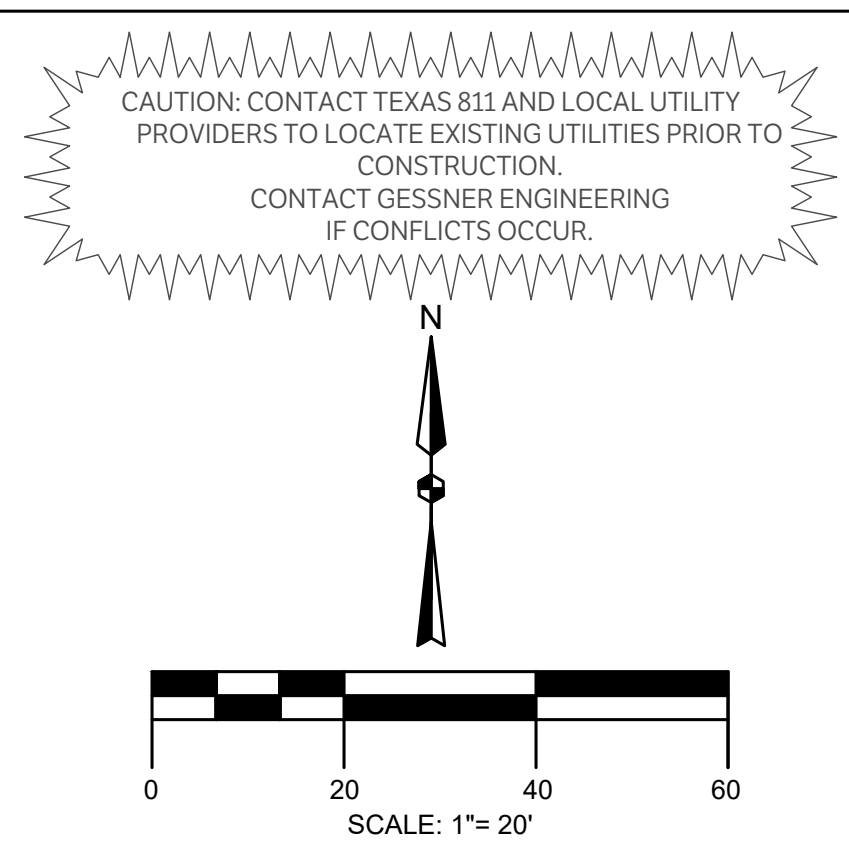
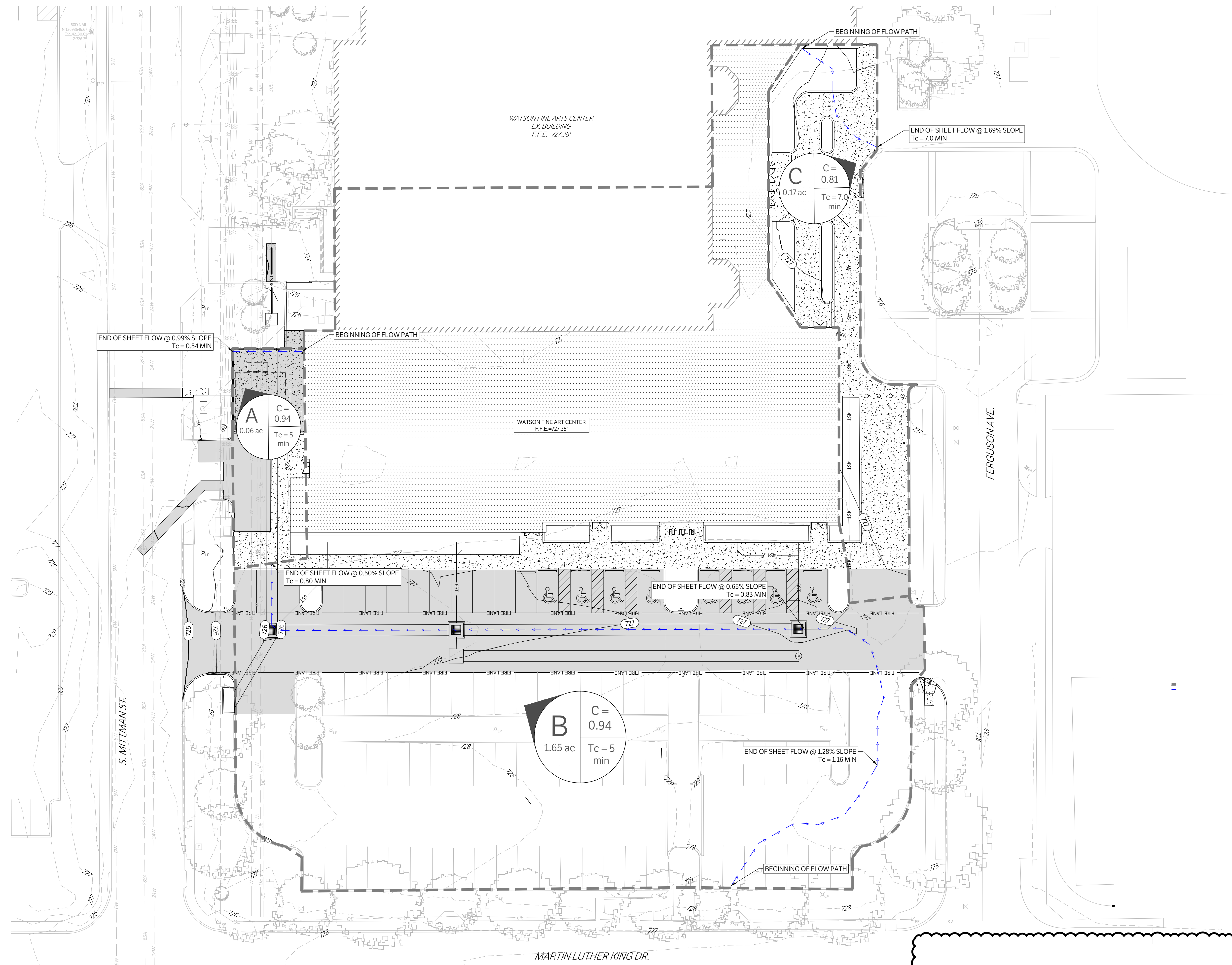
ISSUE FOR PERMIT
BUILDING NUMBER

PRE DRAINAGE AREA MAP

C500

ISSUE FOR PERMIT

Sheet Grids Template
Z400
FOR BLUEBAM LABELING.COR.



LEGEND

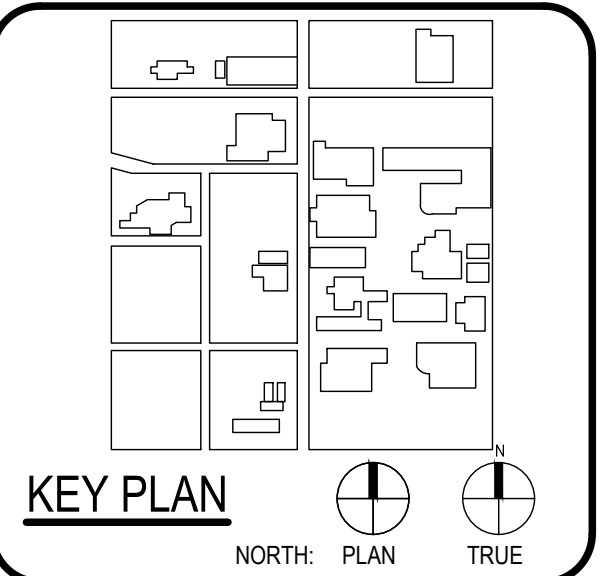
- DRAINAGE AREA BOUNDARY
- ⊙ A1 DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- - - - - EXISTING CONTOURS
- PROPOSED CONTOURS
- FLOW PATH

Required Storage	
Storm Event	Required Storage (ft ³)
1 - Year	2037.00
5 - Year	2784.00
25 - Year	3698.00
100 - Year	4549.00



ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1
600 S Milburn St.
San Antonio, TX 78203
ISSUE FOR PERMIT



No.	Description	Date
1	ADDENDUM 1	08/05/2024

CLIENT Alamo Colleges
DATE 2024/06/12 PROJECT NUMBER 230462

ISSUE FOR PERMIT
BUILDING NUMBER

POST DRAINAGE AREA MAP
C501

POST AREA A					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	2700.94	0.06	0.06
Grass Cover	Grass Cover > 75%	0.35	54.6	0.00	0.00
TOTAL			2755.54	0.06	0.06
			C		0.94

POST AREA B					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	67228.61	1.54	1.47
Grass Cover	Grass Cover > 75%	0.35	4672.06	0.11	0.04
TOTAL			71900.67	1.65	1.50
			C		0.91

POST AREA C					
COVER TYPE	SURFACE DESCRIPTION	C	AREA (SF)	AREA (AC)	C x AREA
Impervious Areas	Paved parking lots, roofs driveways etc.	0.95	5769.34	0.13	0.13
Grass Cover	Grass Cover > 75%	0.35	1699.92	0.04	0.01
TOTAL			7469.26	0.17	0.14
			C		0.81

POST DEVELOPMENT PEAK RUNOFF							
AREA	SIZE (AC)	C	TC (MIN)	1 YR (CFS)	5 YR (CFS)	25 YR (CFS)	100 YR (CFS)
A	0.06	0.94	5.0	0.3	0.4	0.6	0.8
B	1.65	0.91	5.0	8.2	12.2	16.9	21.2
C	0.17	0.81	8.0	0.6	0.9	1.3	1.6

Time (minutes)	Atlas 14 Rainfall Intensity (in/hr)			
	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

Post			
Area A	Area B	Area C	
C	0.94	C	0.91
Area (ac)	0.06	Area (ac)	1.65
Flow Length (ft)	29.10	Flow Length (ft)	416.77
SCS Sheet Flow (ft)	29.10	SCS Sheet Flow (ft)	85.32
Slope (%)	0.99	Slope (%)	1.28
Manning's Roughness	0.011	Manning's Roughness	0.013
Flow Time (min)	0.54	Flow Time (min)	1.32
Time of Concentration (min)	0.54	SCS Shallow Concentrated Flow (ft)	81.23
COSA requires min TOC of 5 min			
PAVEMENT			
Slope (%)	0.65	SCS Sheet Flow (ft)	32.46
Velocity (ft/s)	1.64	Slope (%)	2.55
Flow Time (min)	0.83	Manning's Roughness	0.011
SCS Channel Flow (ft)	224.55	Flow Time (min)	0.40
Slope (%)	0.50	Time of Concentration (min)	8.00
Manning's Roughness	0.011	*COSA requires min TOC of 5 min*	
Velocity (ft/s)	5.00		
Flow Time (min)	0.74		
SCS Channel Flow (ft)	25.67		
Slope (%)	0.50		
Manning's Roughness	0.011		
Velocity (ft/s)	7.00		
Flow Time (min)	0.06		
Time of Concentration (min)	2.95		
COSA requires min TOC of 5 min			

CHECKED BY: SH & AL
DRAWN BY: JC

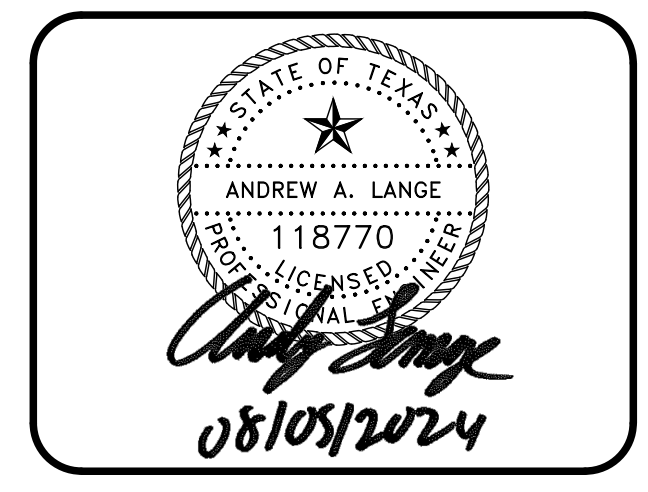
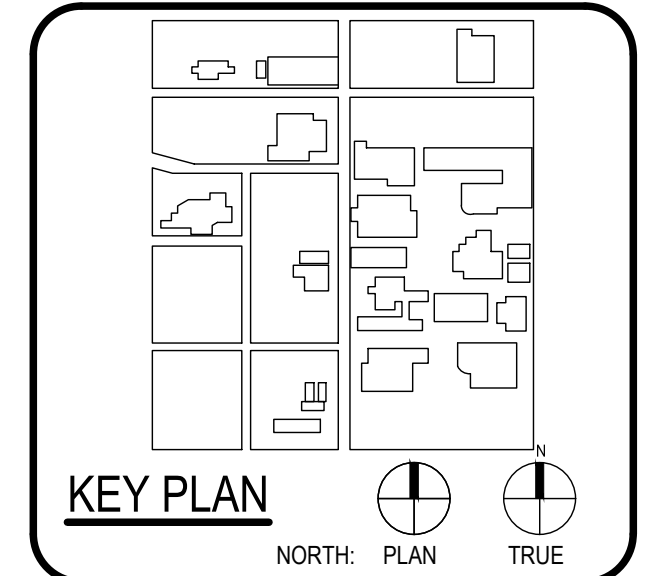
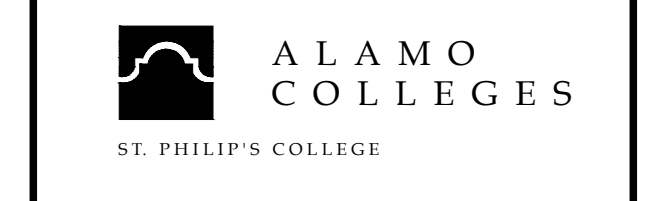
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CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
1301 BRUNNEN LANDSCAPE 1131 W. 15TH ST SAN ANTONIO, TX 78202 LINDY & TRAVIS ENGINEERING 1131 W. 15TH ST SAN ANTONIO, TX 78202 PROLOGUE NEAR PROJECTIONS 1131 W. 15TH ST SAN ANTONIO, TX 78202	

WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges
DATE	2024/06/12
PROJECT NUMBER	230462

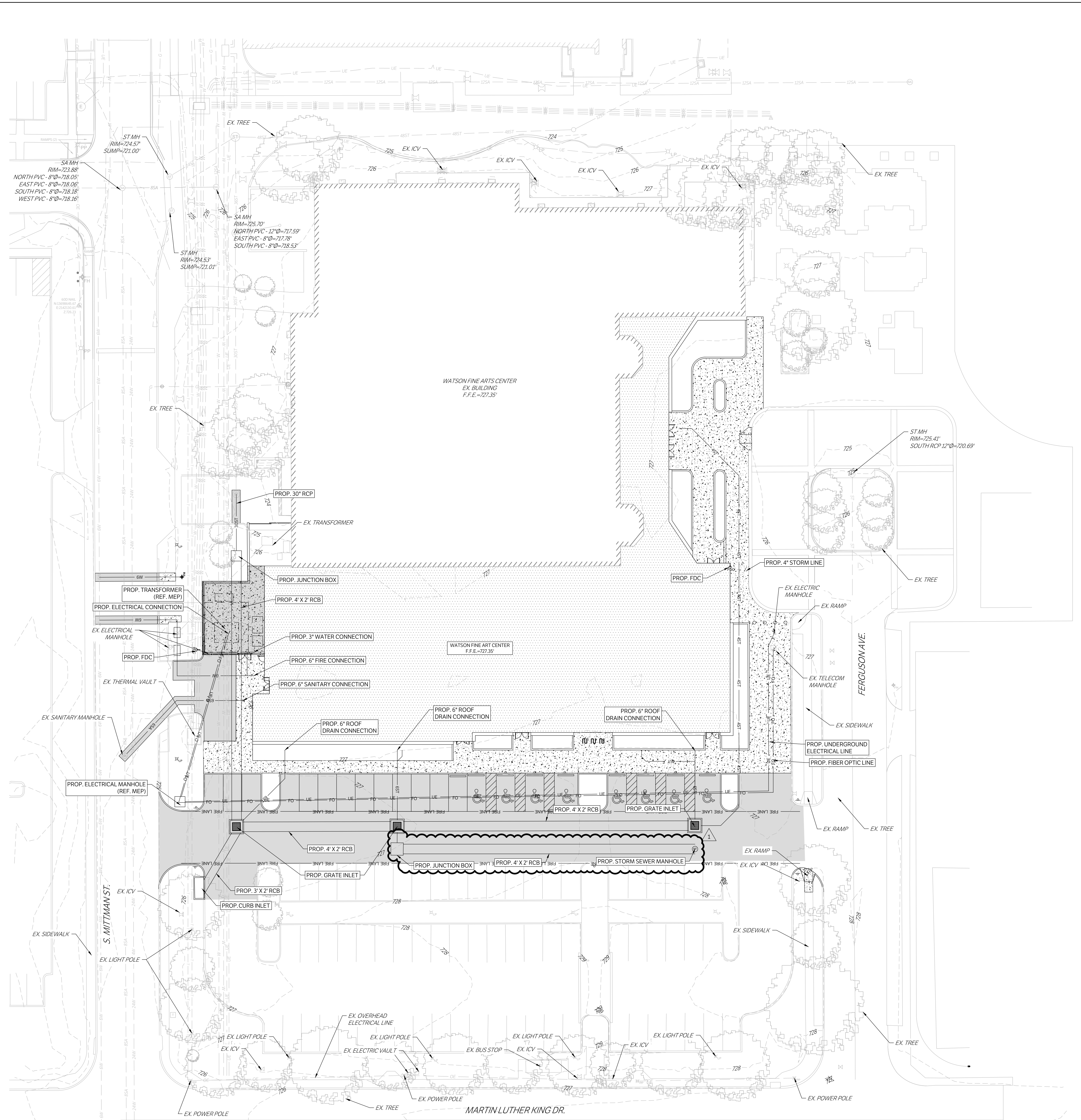
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

BUILDING NUMBER

OVERALL UTILITY

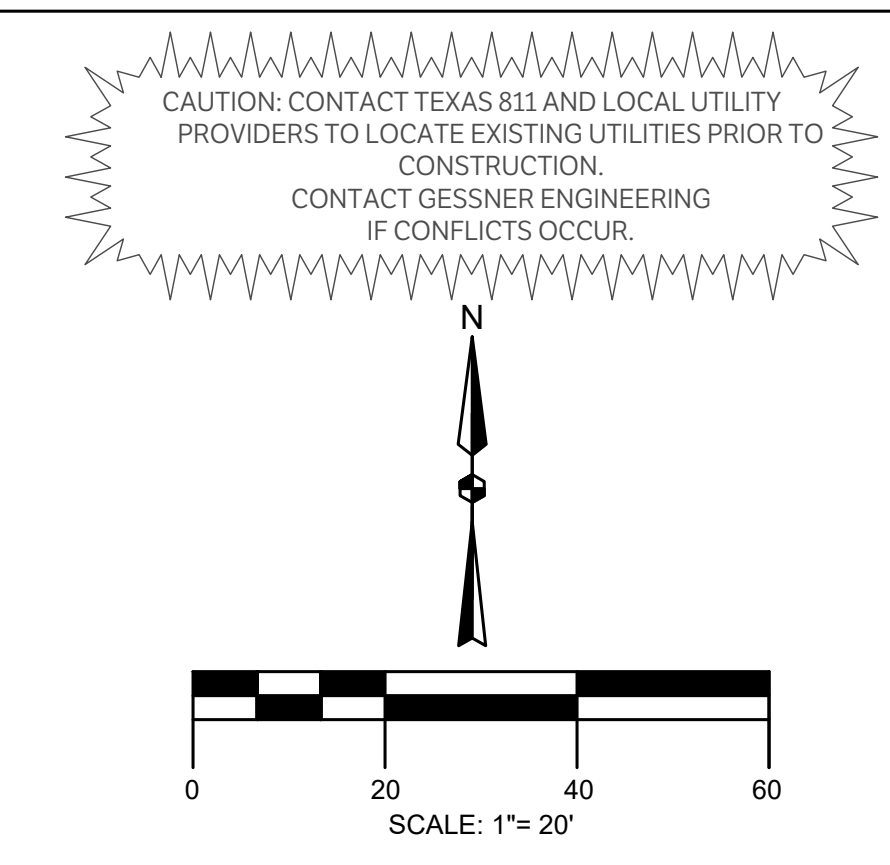
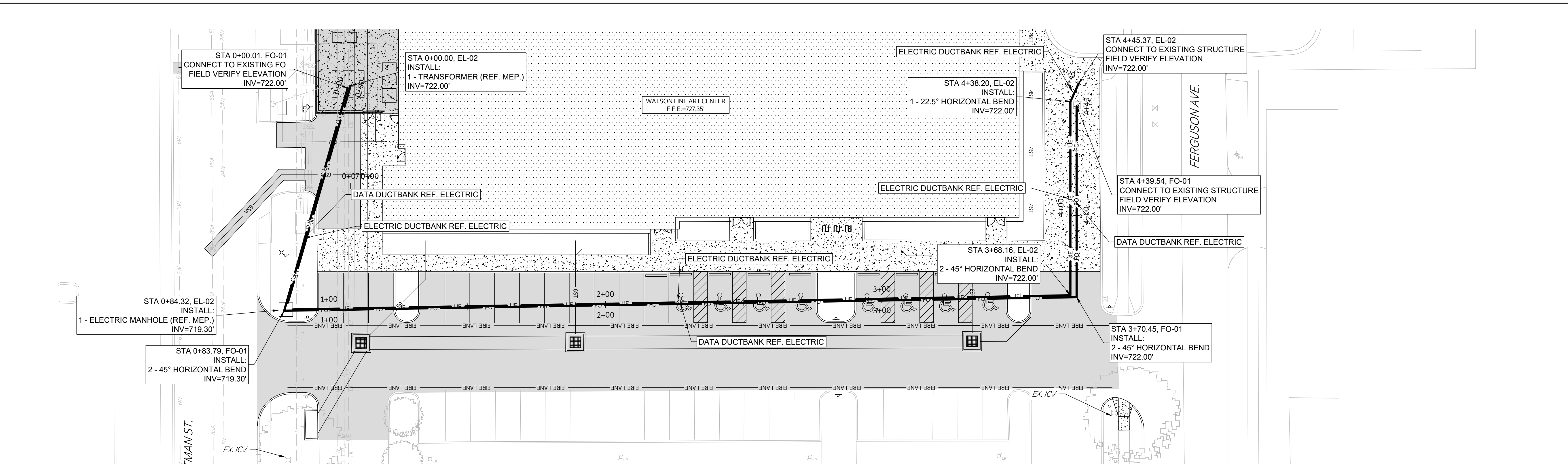
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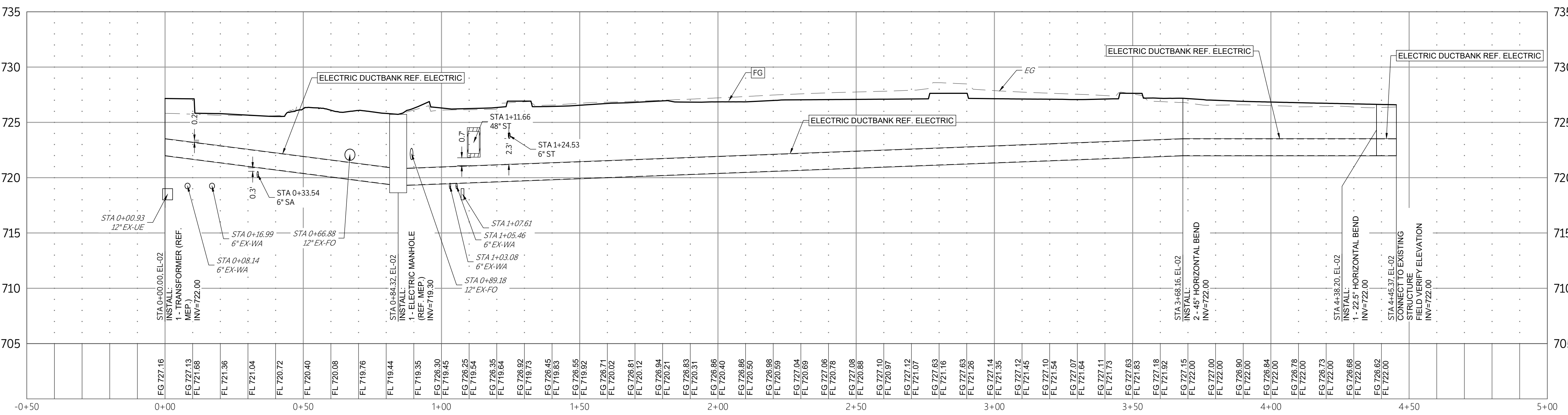
LEGEND

[Pattern]	PROPOSED ASPHALT PAVEMENT
[Pattern]	PROPOSED STRUCTURAL PAVEMENT
[Pattern]	REF. STRUCTURAL
[Pattern]	PROPOSED 4" CONCRETE SIDEWALK
[Pattern]	PROPOSED BUILDING
[Line]	EXISTING PAVEMENT EDGE
[Line]	PROPERTY LINE
[Line]	EXISTING EASEMENT
[Line]	PROPOSED EASEMENT
[Line]	EXISTING CONTOURS
[Line]	PROPOSED CONTOURS
[Line]	EX. PROP. STORM LINE
[Line]	EX. PROP. WATER LINE
[Line]	EX. PROP. SANITARY SEWER LINE
[Line]	EXISTING THERMALS
[Line]	PROPOSED THERMALS
[Line]	EX. PROP. GAS LINE
[Line]	EX. PROP. DATA/TELECOM
[Line]	EX. PROP. UNDERGROUND ELECTRIC
[Line]	EX. PROP. FIBER OPTIC
[Line]	EX. PROP. OVERHEAD ELECTRIC
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[Symbol]	EX. PROP. WATER METER
[Symbol]	EX. PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX. PROP. SANITARY SEWER MANHOLE
[Symbol]	EX. PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX. PROP. LIGHT POLE
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[Symbol]	PROPOSED UTILITY EASEMENT

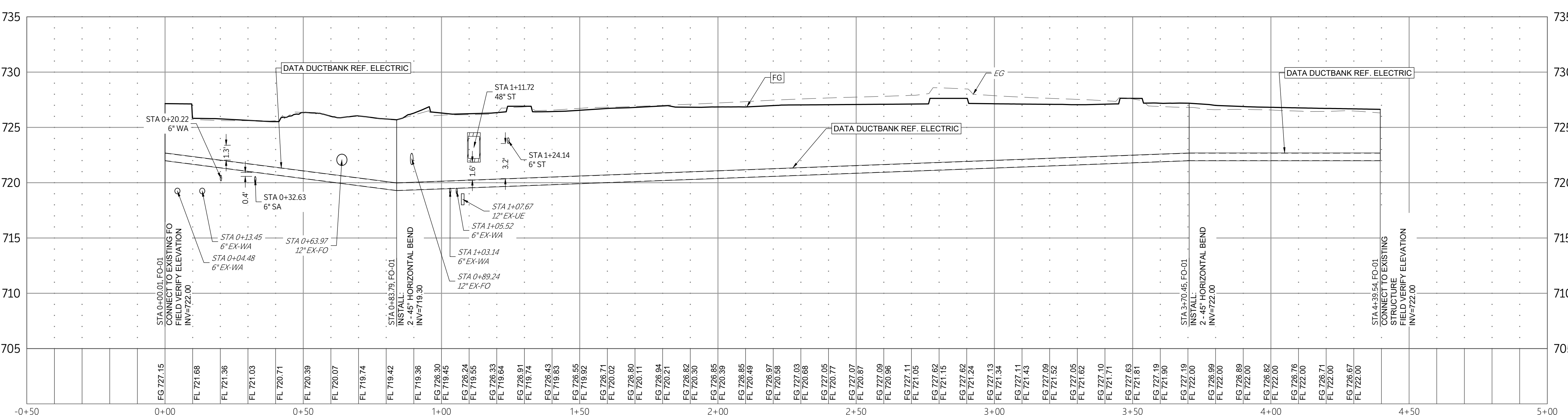
ISSUE FOR CONSTRUCTION



NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING
UTILITY INVERTS PRIOR TO CONSTRUCTION



EL-02
SCALE: 1"=20' H, 1"=5' V



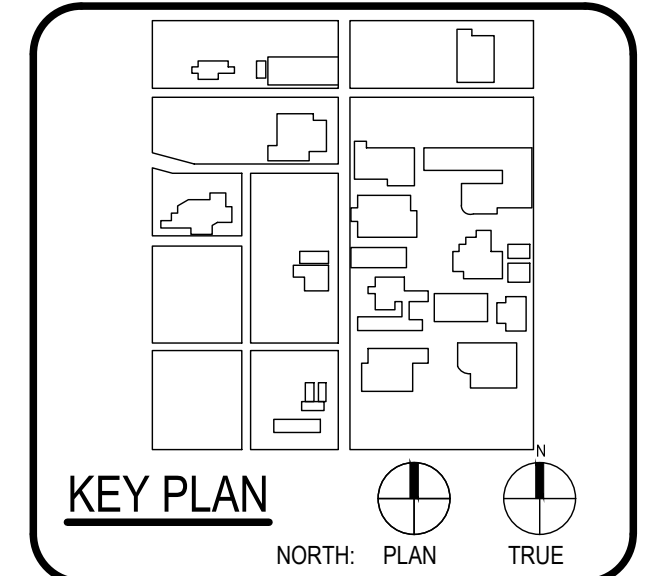
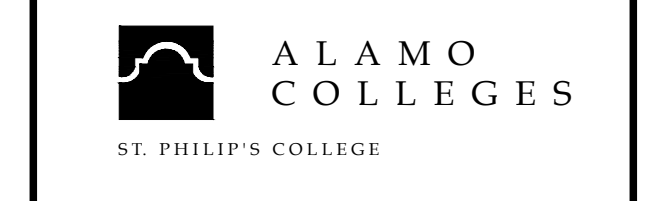
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SCALE: 1"=20' H, 1"=5' V

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[Symbol]	REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
[Symbol]	PROPOSED EASEMENT
[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
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[Symbol]	EX. PROP. SANITARY SEWER LINE
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[Symbol]	PROPOSED THERMALS
[Symbol]	EX. PROP. GAS LINE
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[Symbol]	PROPOSED UTILITY EASEMENT



ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1



STATE OF TEXAS
ANDREW A. LANGE
118770
06/14/2024

CLIENT		
Alamo Colleges	PROJECT NUMBER 230462	
DATE 2024/06/12		
DRAWING HISTORY		
No.	Description	Date

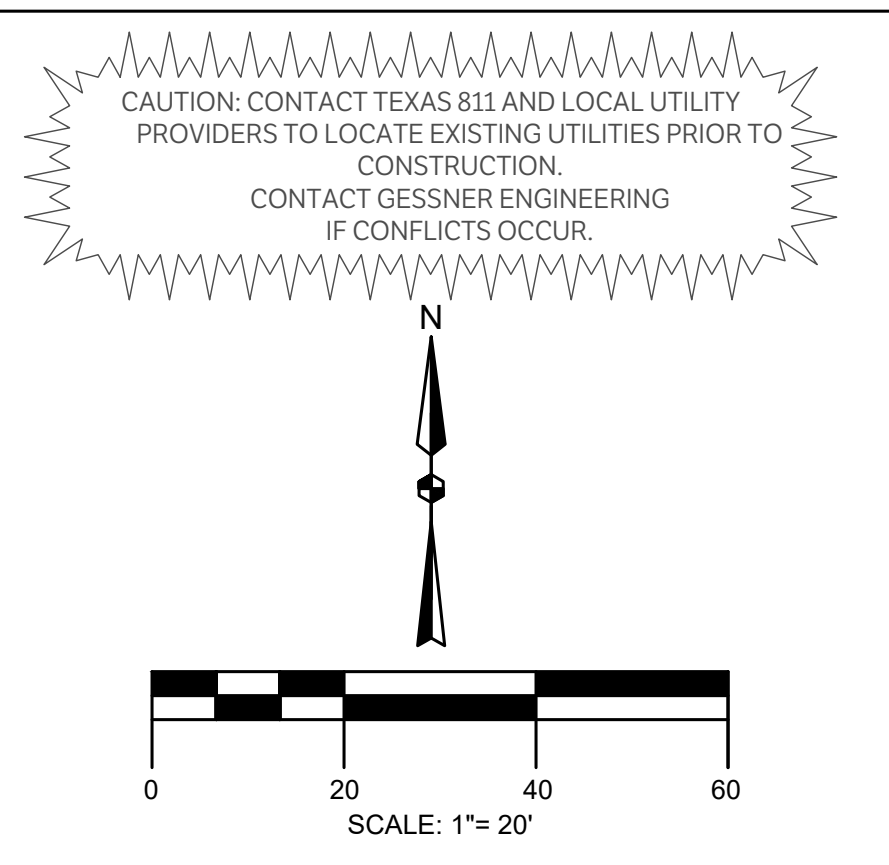
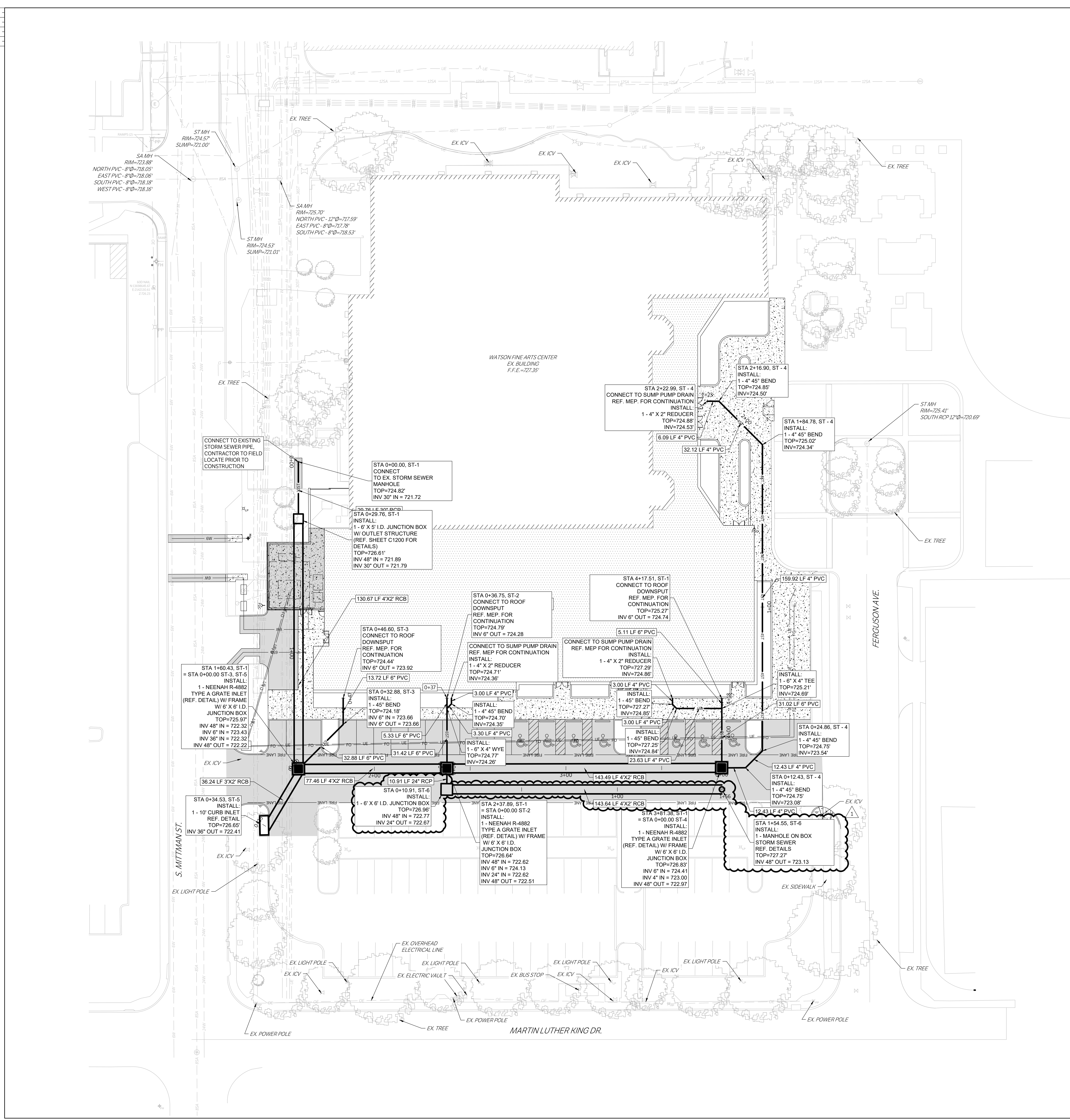
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

ELEC. & COMNS
PLAN & PROFILES

C700

Sheet Grids Template
Z:400
FOR BLUEBAM LABELING CORR.

ISSUE FOR PERMIT



LEGEND

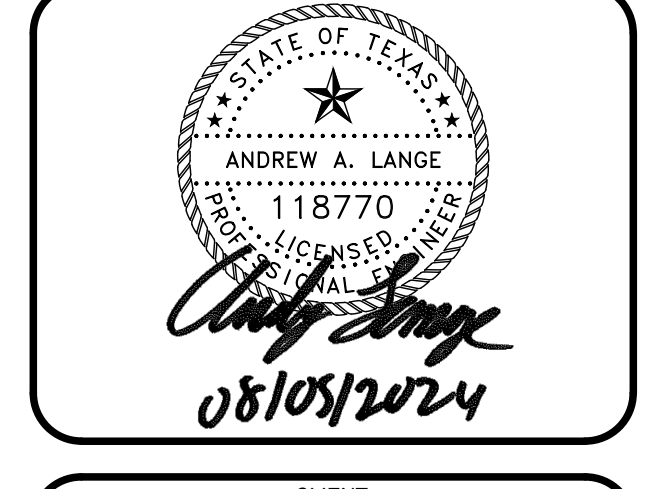
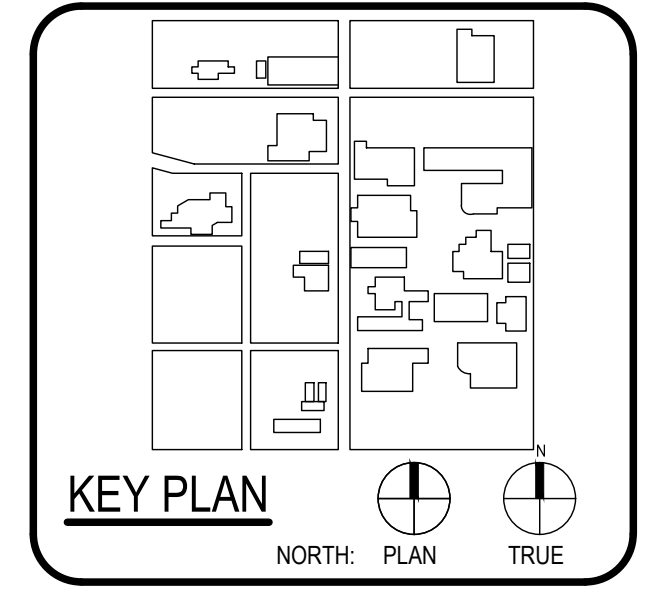
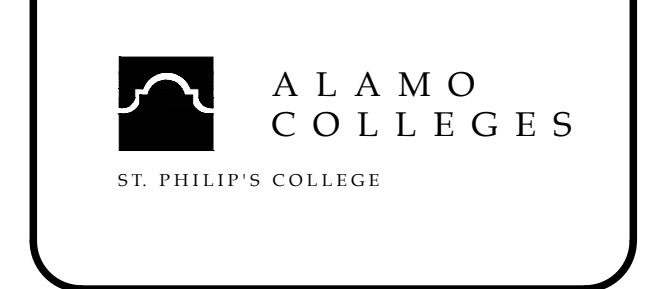
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[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
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[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



ARCHITECT: SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

WFAC Black Box Addition PKG 1

600 S Alhambra St.
San Antonio, TX 78203
ISSUE FOR PERMIT



CLIENT: Alamo Colleges		
DATE: 2024/06/12	PROJECT NUMBER: 230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

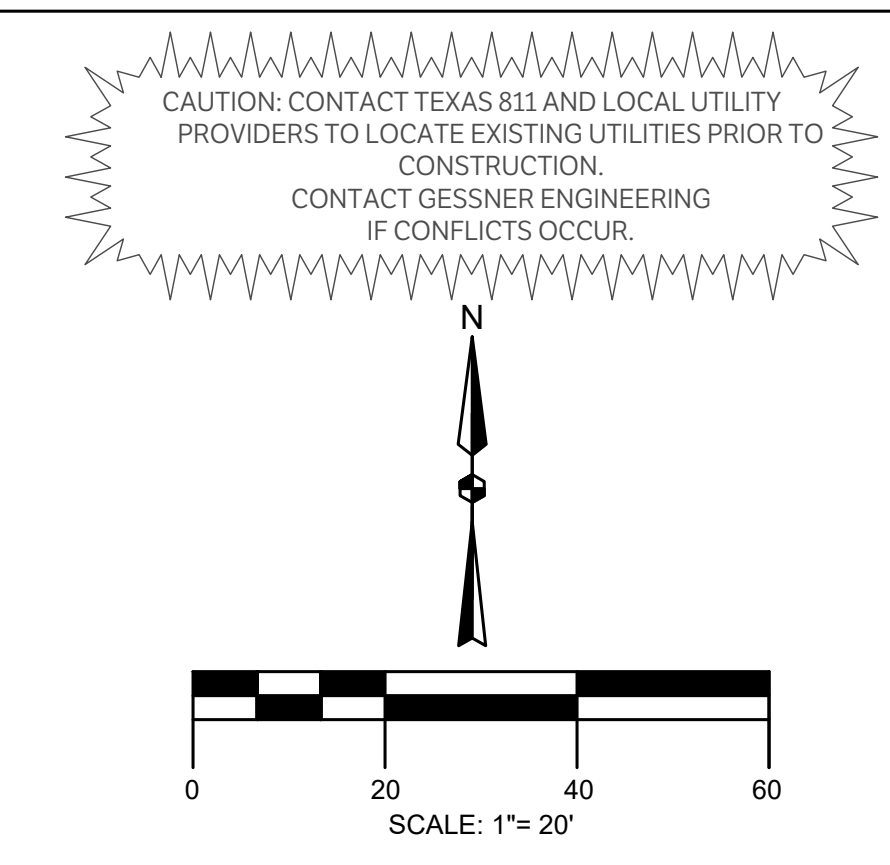
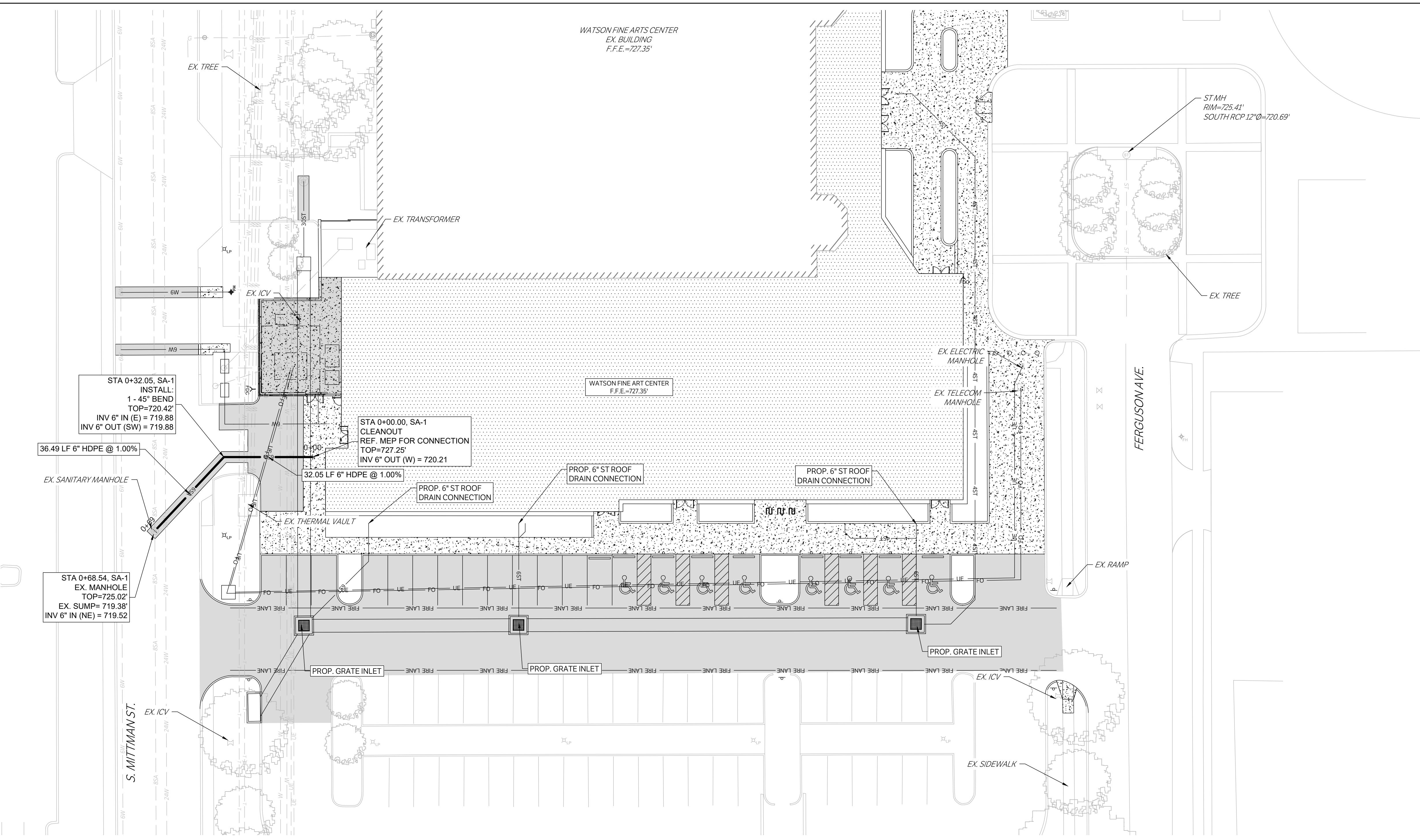
BUILDING NUMBER

STORM PLAN

C800

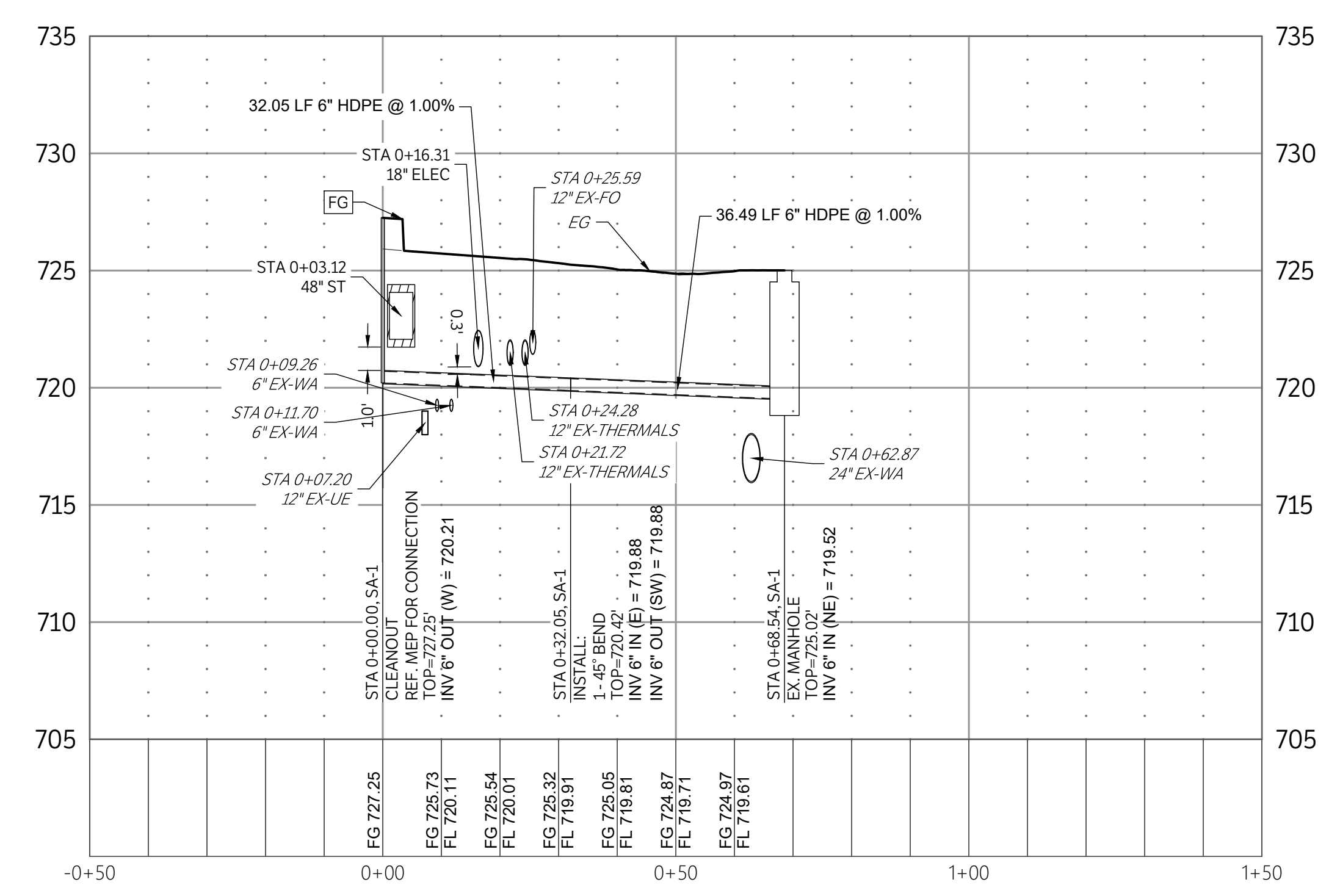
CHECKED BY: SH & AL
DRAWN BY: JC

ISSUE FOR CONSTRUCTION



NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING
UTILITY INVERTS PRIOR TO CONSTRUCTION

LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EX. PROP. STORM LINE
	EX. PROP. WATER LINE
	EX. PROP. SANITARY SEWER LINE
	EXISTING THERMALS
	PROPOSED THERMALS
	EX. PROP. GAS LINE
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	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

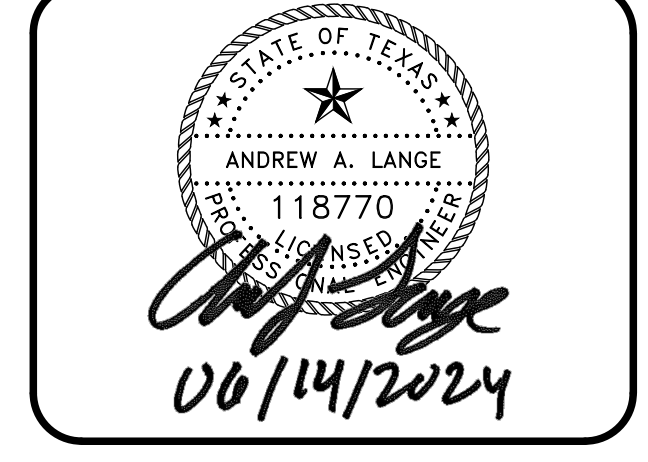
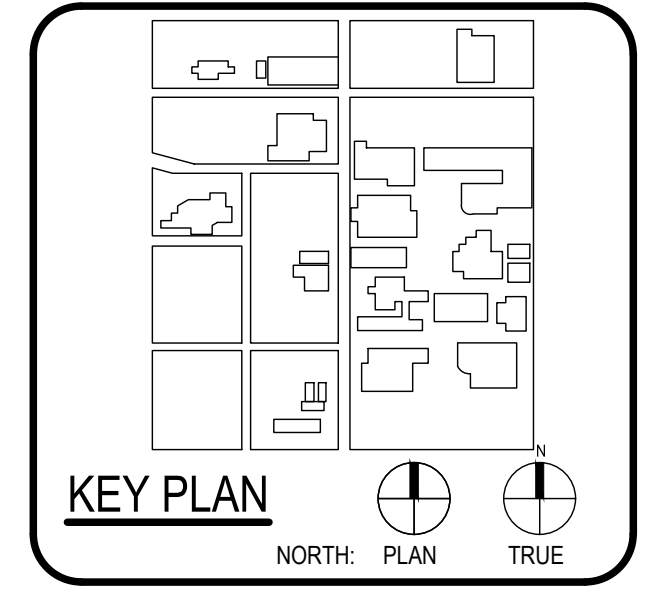
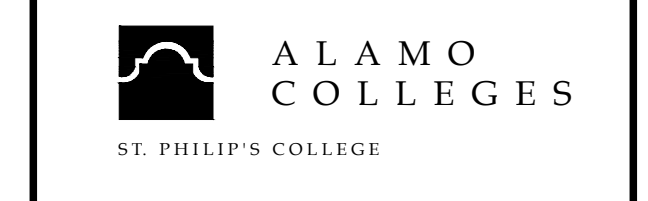


SA-1
SCALE: 1"=20' H, 1"=5' V



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
DESIGNER	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
LANDSCAPE ARCHITECT	LUNY & HARRIS ENGINEERING
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ENGINEER	BA ARCHITECTS
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	

WFAC Black Box Addition PKG 1

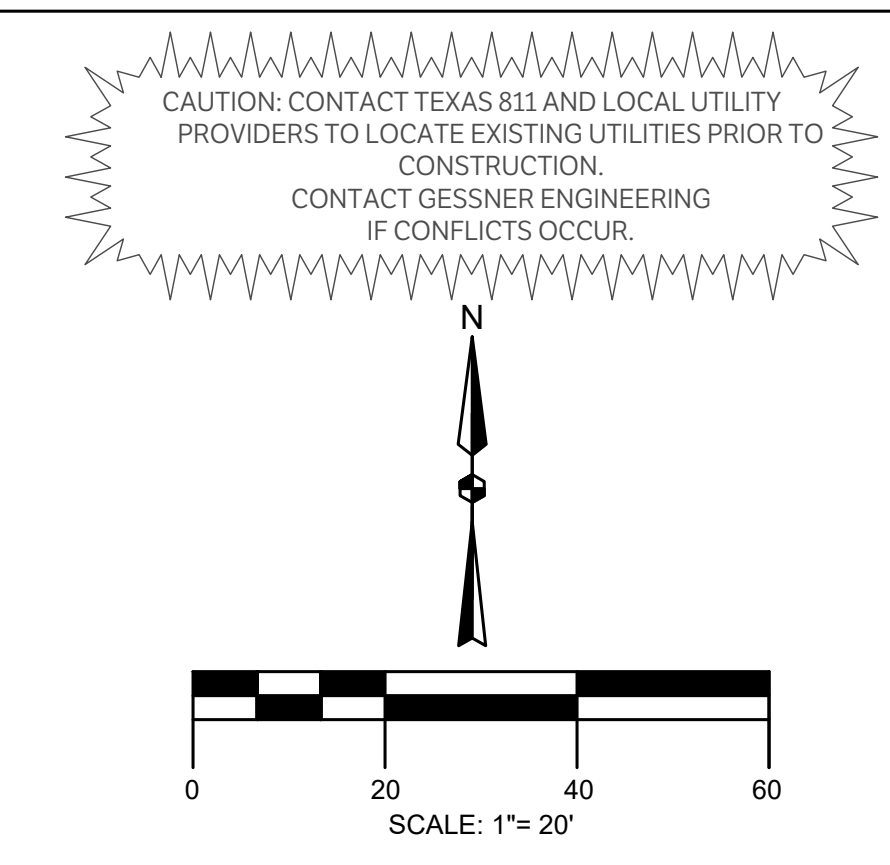
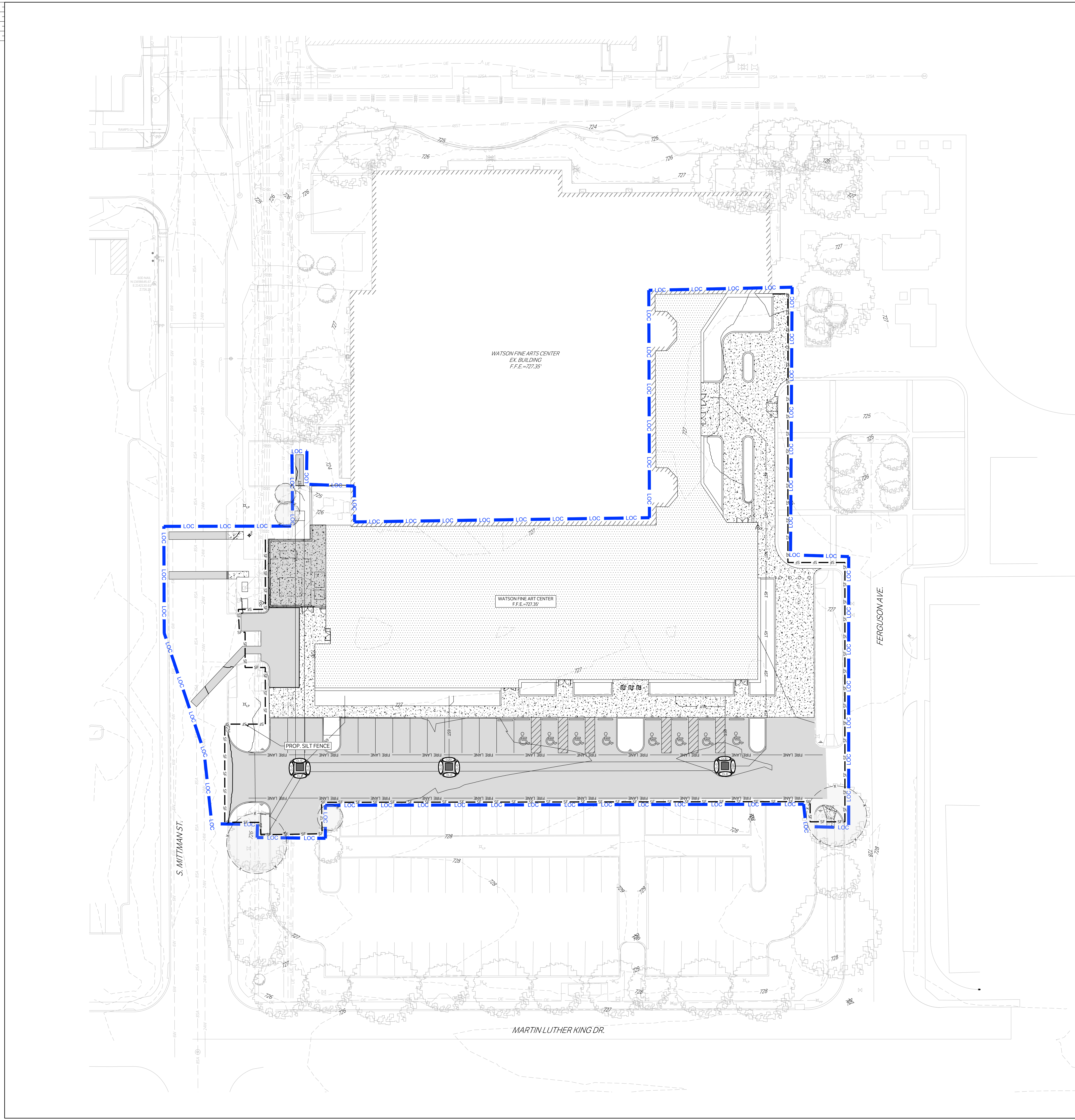


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER
SANITARY PLAN & PROFILES

C900

ISSUE FOR CONSTRUCTION



LEGEND

	CONSTRUCTION ENTRANCE, INSTALLED PER DETAIL
	PROPERTY LINE
	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING FLOW PATH
	PROPOSED FLOW PATH
	SILT FENCE, INSTALLED PER DETAIL
	PROPOSED DAM EROSION CONTROL, LOG-18"
	PROPOSED ROCK FILTER DAM TYPE 3
	PROP. TREE PROTECTION FENCE
	PROP. TREE PROTECTION FENCE

EROSION CONTROL NOTES:
OWNER INFORMATION: ST PHILLIPS COLLEGE
PROJECT NAME: ST PHILLIPS COLLEGE WATSON FINE ARTS CENTER BLACK BOX ADDITION
PROJECT LOCATION: 600 S MITTMAN ST. SAN ANTONIO, TX 78203

LATITUDE: 29°24'49.57"N
 LONGITUDE: 98°27'14.61"W
 TOTAL SITE AREA IS: 1.89 ACRES
 TOTAL AREA OF SITE EXPECTED TO BE DISTURBED: 1.35 ACRES

EXISTING SITE CONDITIONS
 LAND USE: HIGHER EDUCATION
 LAND COVER: ~90% IMPERVIOUS
 RECEIVING WATERS: SALADO CREEK
 SEGMENT NO. OF CLASSIFIED WATER BODY: SALADO CREEK

BASIN NAME: SAN ANTONIO RIVER

SOIL INFORMATION
 HYDROLOGIC SOIL GROUP: D

POST DEVELOPED SITE CONDITIONS
 LAND USE: HIGHER EDUCATION
 ACADEMIC BLDG

NATURE OF ACTIVITIES
 ACADEMIC BLDG

- SEQUENCE OF MAJOR ACTIVITIES**
1. INSTALL SILT FENCE AT STOCK PILE AREAS
 2. CLEARING, GRADING, GENERAL CONSTRUCTION SITE
 3. INSTALL FILTER ELEMENTS IMMEDIATELY AFTER DISTURBANCE AND/OR GRADING OPERATIONS.
 4. AFTER ESTABLISHMENT OF GRASS, REMOVE ALL TEMPORARY EROSION CONTROL.
 5. SEED ALL AREAS NOT HAVING PERMANENT GRASS COVERAGE AFTER APPROVAL BY COUNTY INSPECTOR.

- GENERAL EROSION CONTROL NOTES**
1. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF INFORMATION OR DATA RELIED ON TO DEPICT UNDERGROUND FACILITIES. CONTRACTOR IS TO CONTACT OWNERS OF ALL UTILITIES AND SERVICE LINES WITHIN THE PROJECT AREA AND NOTIFY OF INTENT AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH FACILITY OWNERS, CONTRACTOR IS TO VERIFY THE EXACT LOCATION AND VERTICAL POSITIONING OF ALL PIPELINES, EXISTING UTILITIES, AND SERVICE LINES WITHIN THE PROJECT AREA WHETHER SHOWN ON THE PLANS OR NOT, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. CONTRACTOR IS TO MAINTAIN STRUCTURAL INTEGRITY OF ALL PIPELINES, ELECTRIC TRANSMISSION POLES AND LINES, PERMANENT AND TEMPORARY UTILITIES. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITY FACILITIES, PAVEMENT, ETC. AS A RESULT OF CLEARING/DIRTWORK ACTIVITIES.
 2. CONTRACTOR TO CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.
 3. ALL DISTURBED AREAS NOT TO BE PAVED ARE TO HAVE ESTABLISHMENT OF GRASS.
 4. ALL SWALE AREAS (BOTTOM WIDTHS & SIDE SLOPES) ARE TO BE PREPARED AND HYDROMULCHED FOR PERMANENT ESTABLISHMENT OF VEGETATION. PRIOR TO HYDROMULCHING OPERATIONS, CONTRACTOR TO REPLACE TOPSOIL TO A DEPTH OF 6". TOPSOIL IS TO BE DISKED TO A DEPTH OF AT LEAST 4" AND LIGHTLY COMPACTED. FINAL GRADES WITH ESTABLISHED VEGETATION SHALL BE AS CALLED OUT ON THE GRADING PLAN.
 5. CONTRACTOR IS TO MAINTAIN EROSION CONTROL AT ALL LOCATIONS OF CONSTRUCTION THROUGHOUT DURATION OF THE PROJECT AND UNTIL VEGETATION IS ESTABLISHED. INSURE SEDIMENT IS NOT TRANSPORTED DOWNSTREAM FROM PROJECT VIA GRAVEL FILTER BAGS AND SILT FENCE INSTALLATIONS. IF EXCESSIVE EROSION IS OBSERVED IN THE FIELD, ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED.
 6. CONTRACTOR SHALL NOT ALLOW SEDIMENT TO ENTER THE DOWNSTREAM CHANNEL. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF THE DOWNSTREAM CHANNEL AREAS AND RESTORING TO ORIGINAL CONDITION, INCLUDING ESTABLISHMENT OF REVEGETATION SHOULD CONSTRUCTION SEDIMENT BE FOUND OUTSIDE THE LIMITS OF CONSTRUCTION.
 7. THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
 8. THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
 9. THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING SEDIMENTS AND EROSION CONTROL.
 10. A COPY OF THIS PLAN MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
 11. ALL FINISHED GRADES ARE TO BE HYDRO-MULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED.
 12. CONTRACTOR IS RESPONSIBLE TO FILE THE NOTICE OF INTENT AND NOTICE OF TERMINATION WITH AUTHORITY HAVING JURISDICTION.

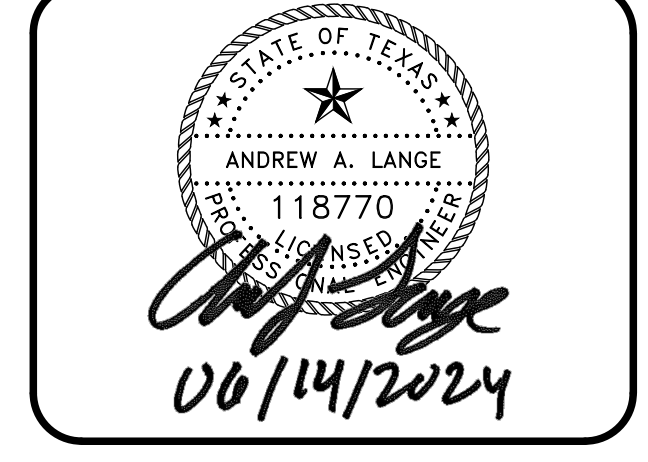
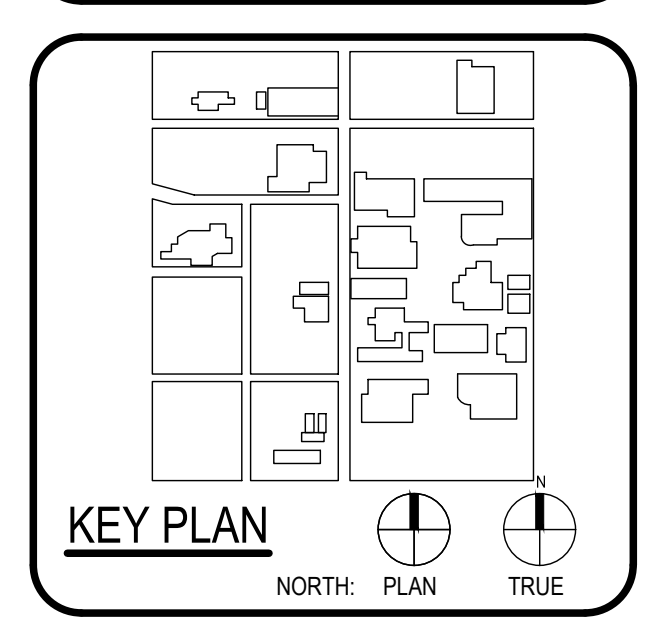
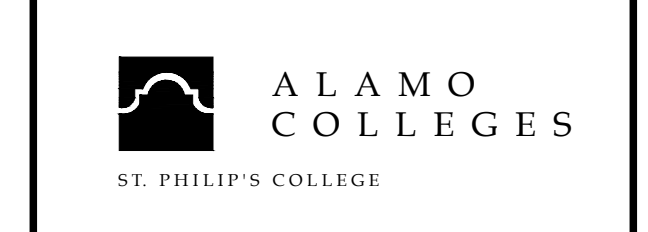


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1711 W. LOOP 410 SUITE 100 SAN ANTONIO, TX 78216 210-441-0992	
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
1711 W. LOOP 410 SUITE 100 SAN ANTONIO, TX 78216 210-441-0992	
ENGINEER	LUNY & HARRIS ENGINEERING
1711 W. LOOP 410 SUITE 100 SAN ANTONIO, TX 78216 210-441-0992	
PROVIDER	MEAN PROFESSIONALS
1711 W. LOOP 410 SUITE 100 SAN ANTONIO, TX 78216 210-441-0992	

WFAC Black Box Addition PKG 1

600 S Miltman St.
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/06/12	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER

EROSION CONTROL

C1100

GENERAL NOTES

1. NEW PIPE TO BE SET FLUSH WITH INSIDE WALL OF STRUCTURE.

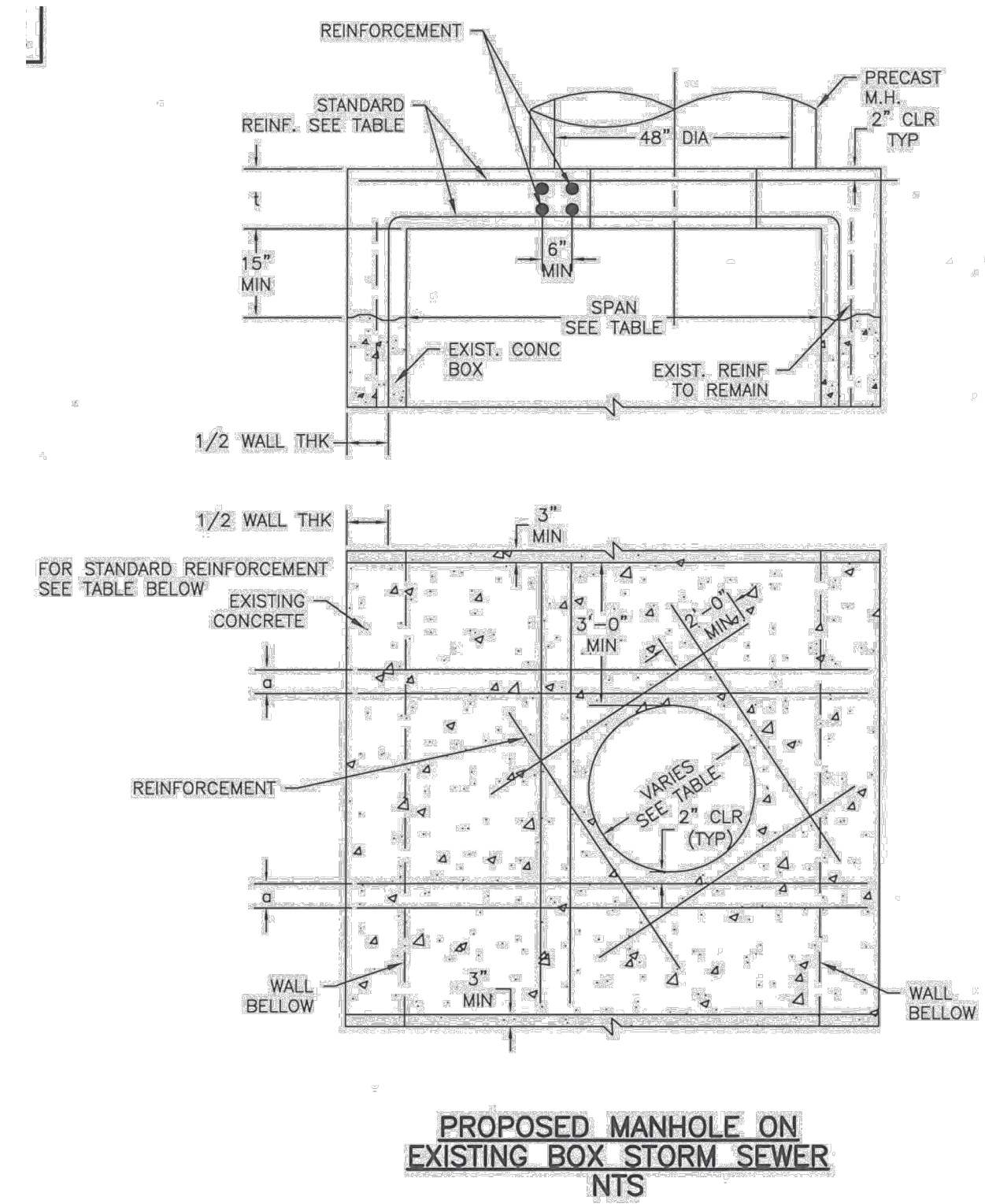
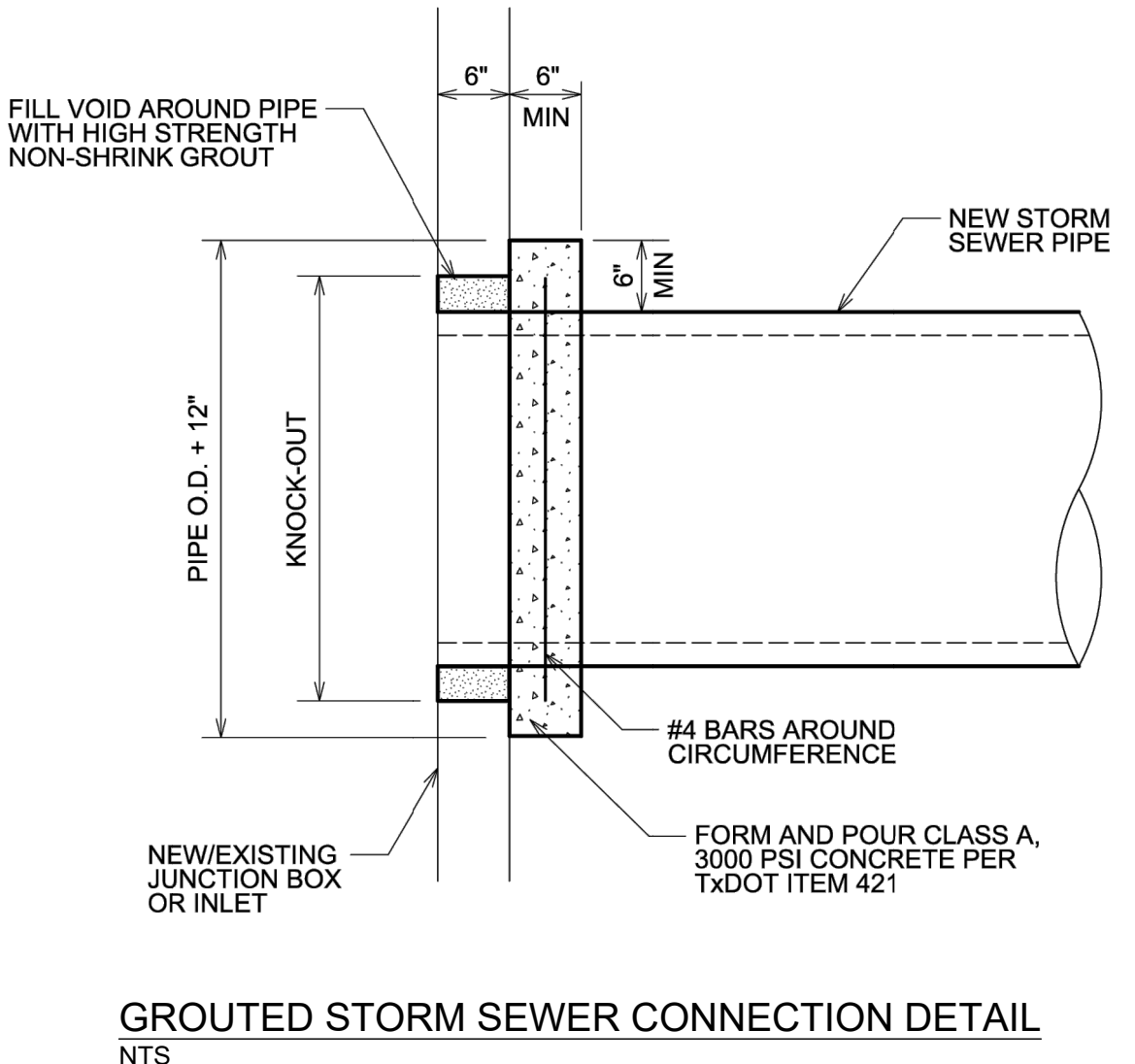
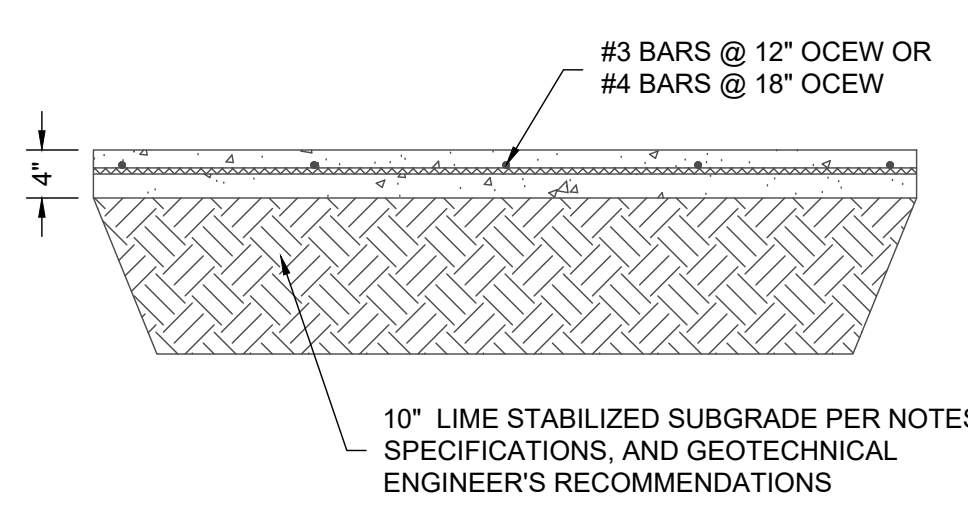
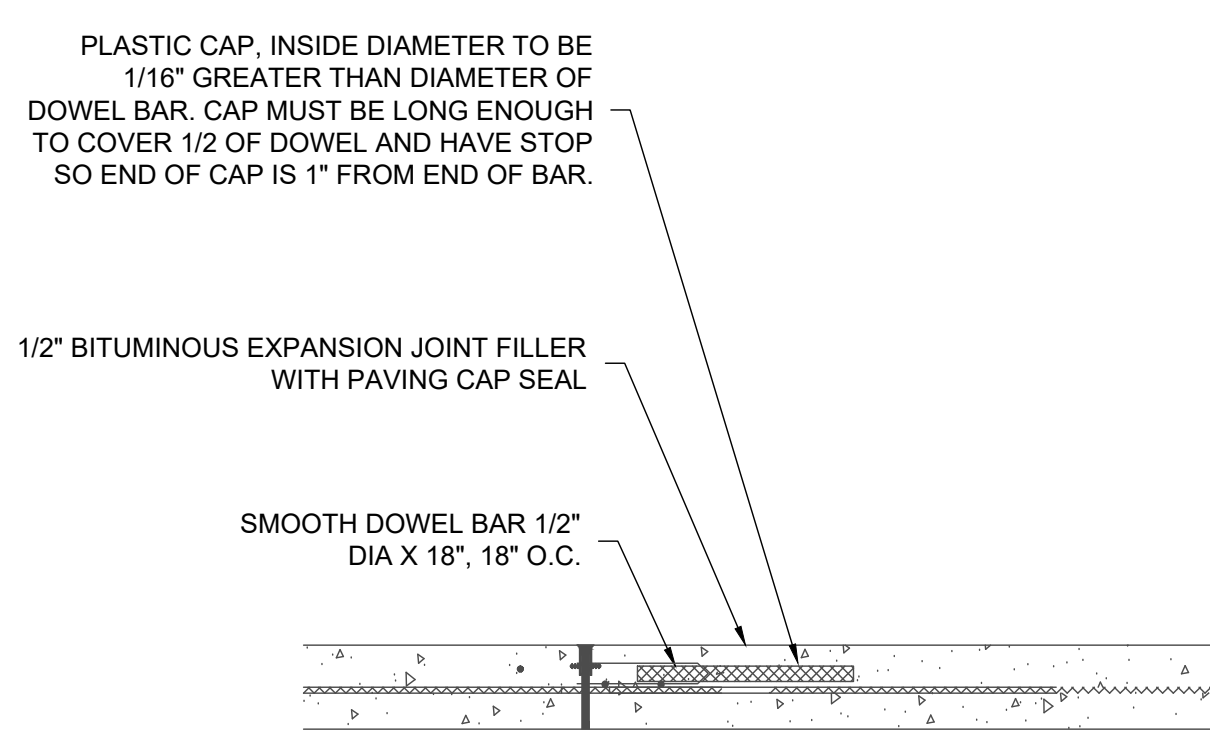
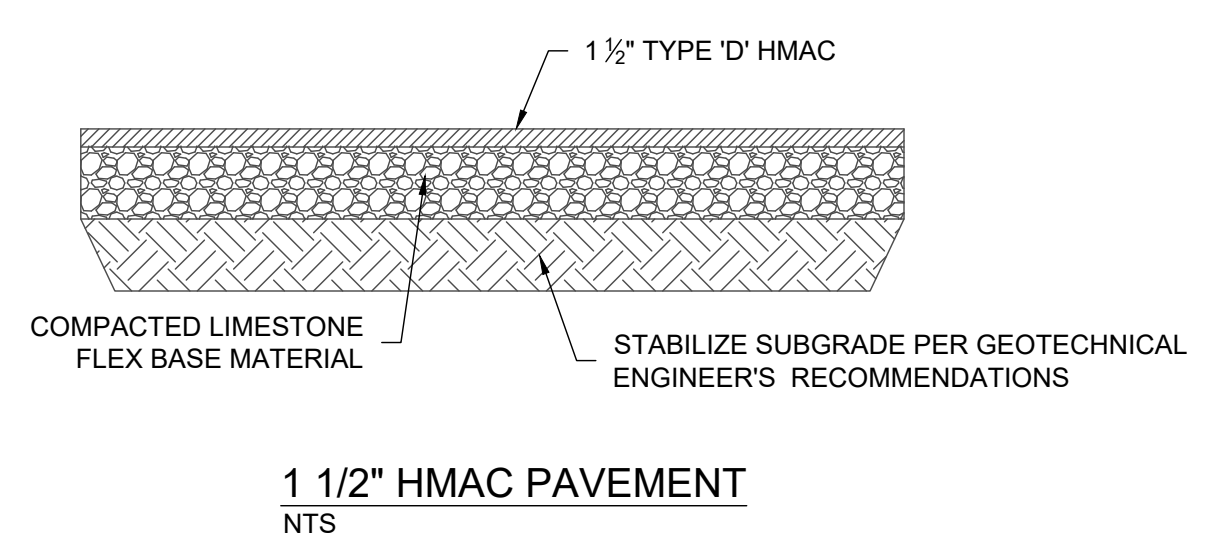
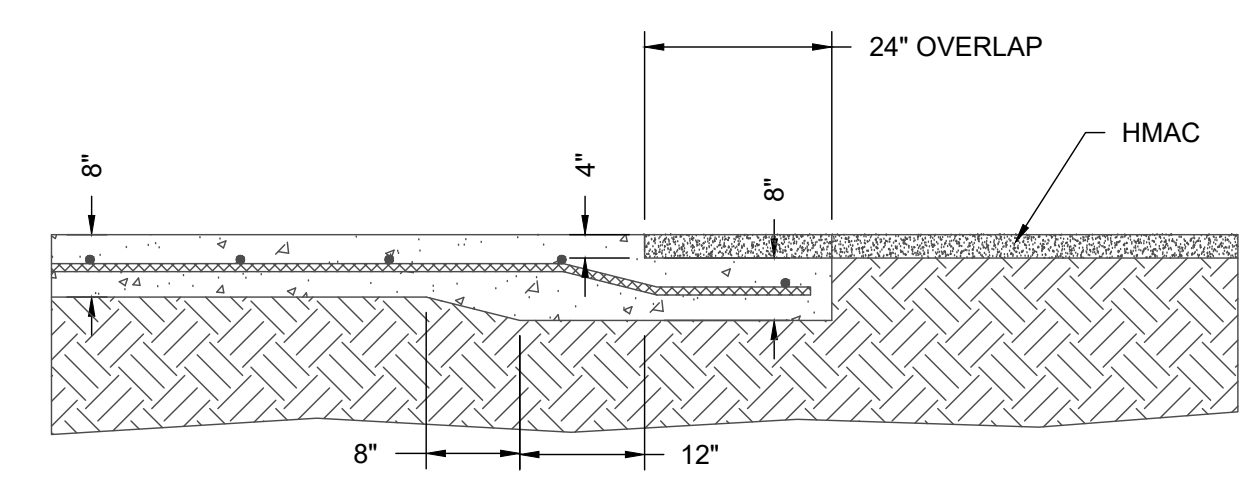
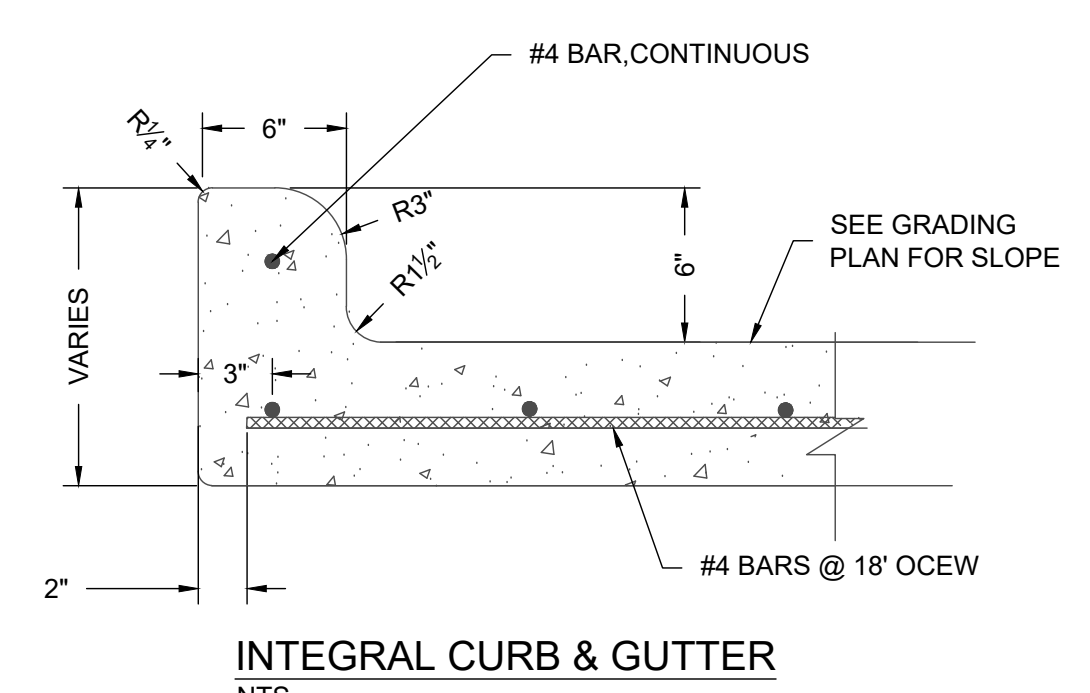


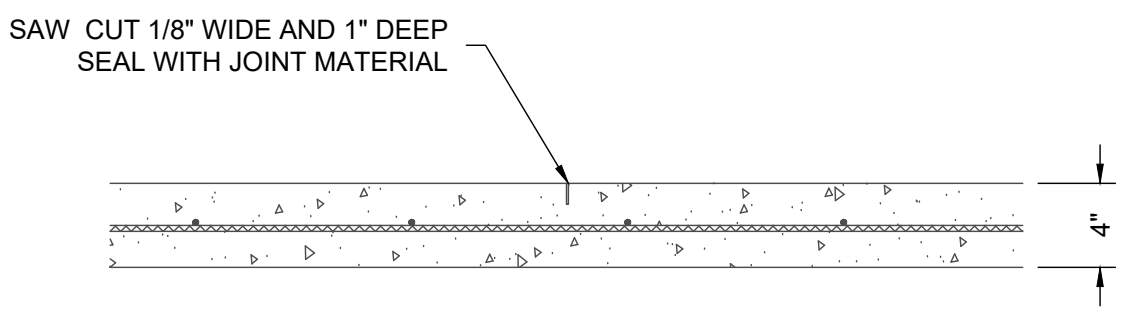
TABLE
SEWER SIZE VS. OPENING

SEWER SIZE (INCHES)	MANHOLE BASE DIAMETER
48"	36"
54"	36"
60"	42"
66" OR GREATER	48"



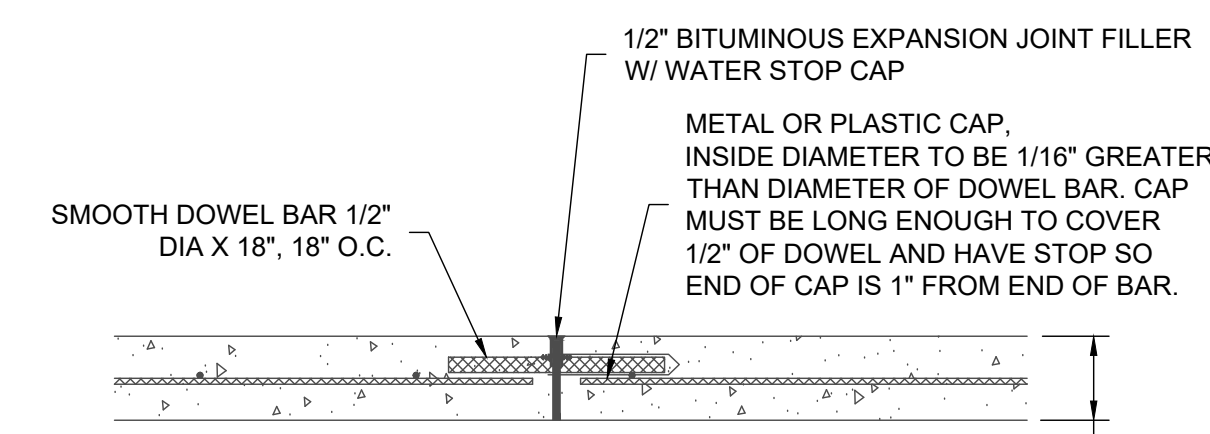
- NOTES:**
- SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
 - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
 - SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS. USE SELF LEVELING JOINT SEALANT ADJACENT TO EXISTING PAVEMENT.

SIDEWALK EXPANSION JOINT
NTS

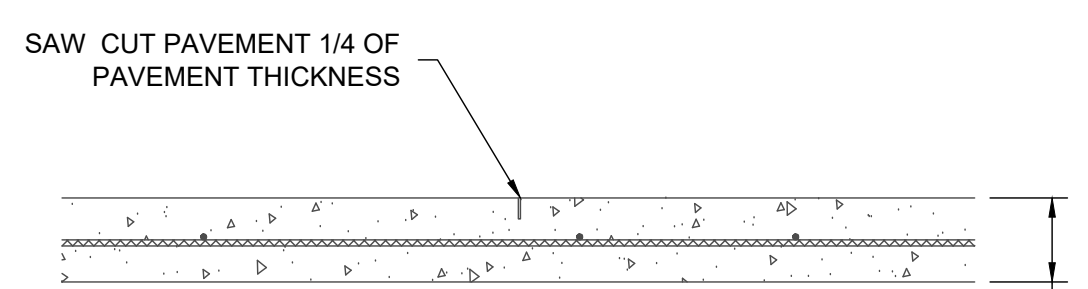


NOTE:
SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

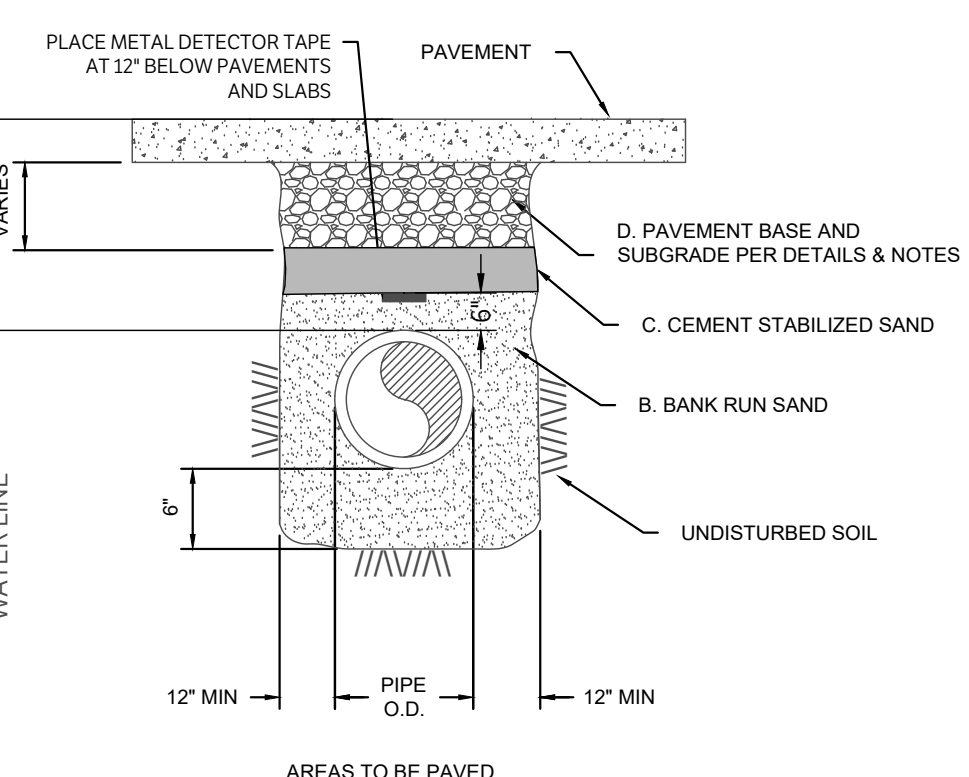
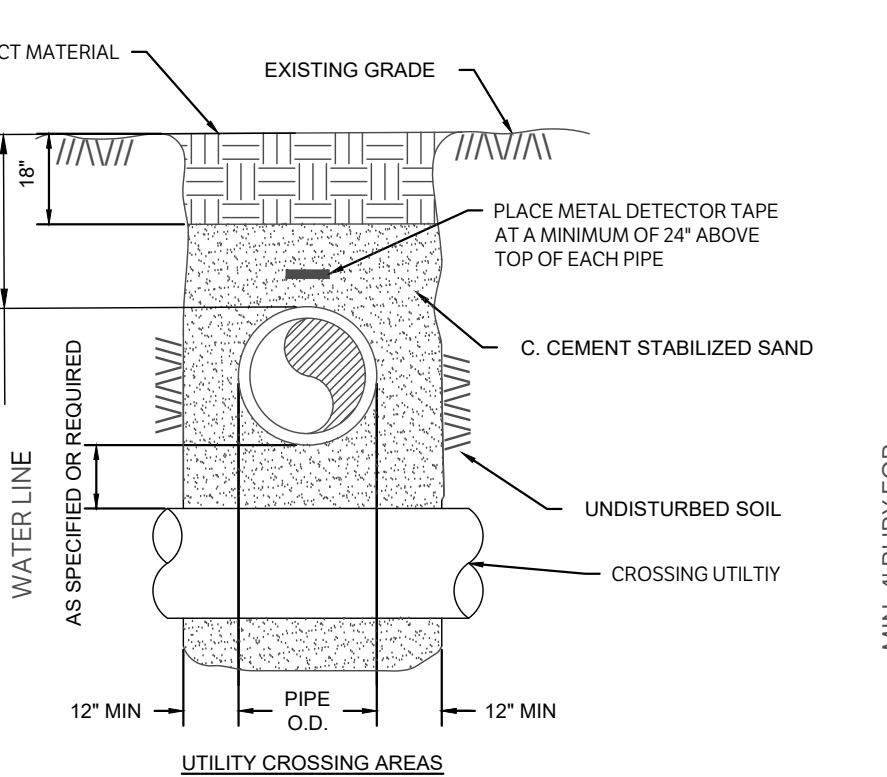
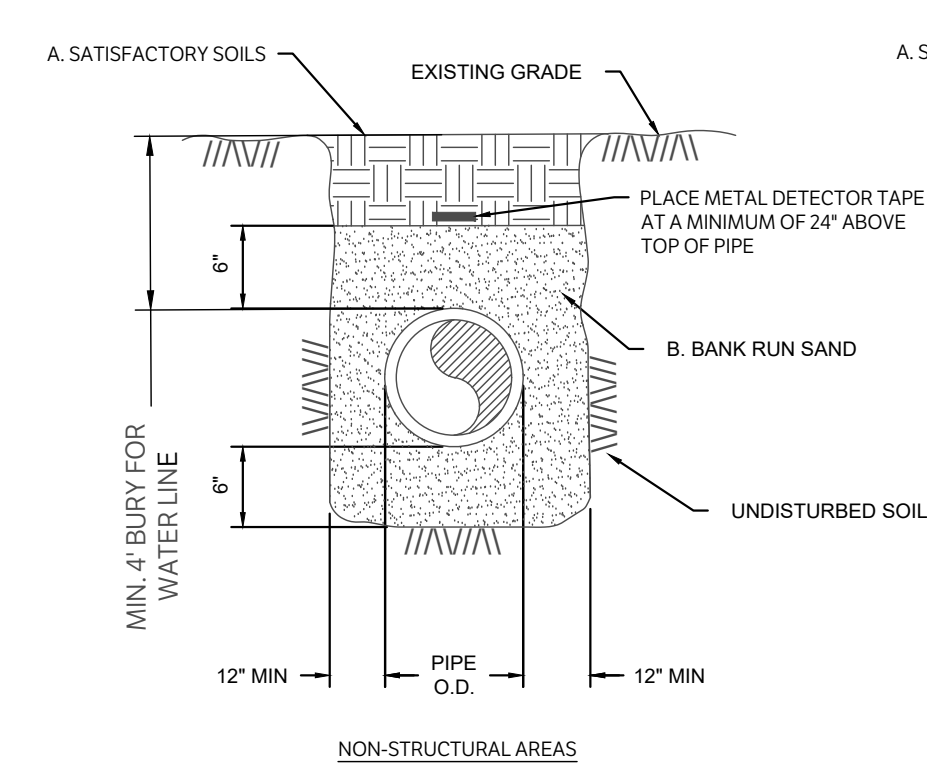
SIDEWALK CONTRACTION JOINT
NTS



CONCRETE PAVEMENT
NTS



- NOTES:**
- SEE PLANS FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.
 - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
 - SEAL ALL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS.



- A. SATISFACTORY SOILS**
MATERIAL EXCAVATED FROM THE DITCH, WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION, COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (IE. YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM UNDER NEW STREET AND PAVEMENT AREAS.
- B. BANK RUN SAND**
GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.
- C. CEMENT STABILIZED SAND**
MATERIALS SHALL BE TYPE PORTLAND CEMENT CONFORMING TO ASTM C150 AND CLEAN DURABLE SAND MEETING GRADING REQUIREMENTS FOR FINE AGGREGATES OF ASTM C33. THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE). COMPACT MIX TO 90% OF ASTM D698 WITH A MOISTURE CONTENT BETWEEN .2% TO 2% ABOVE OPTIMUM.
- D. PAVEMENT SUBGRADE**
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

GENERAL NOTES:
ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SOODED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOO WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SOODED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

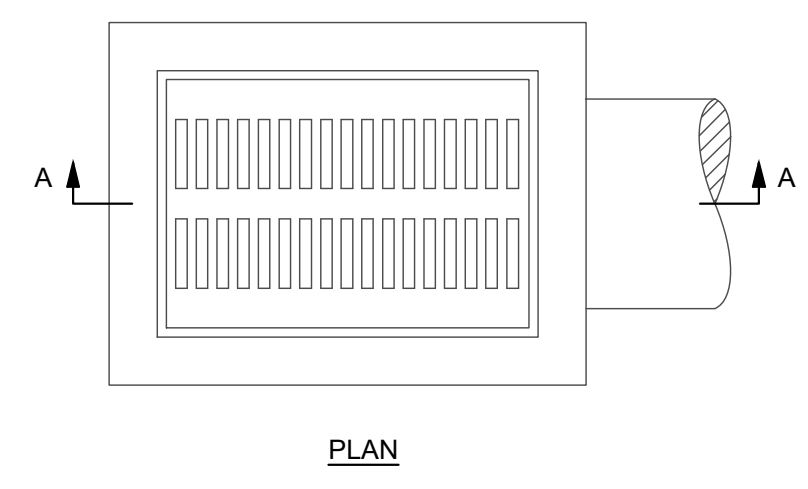
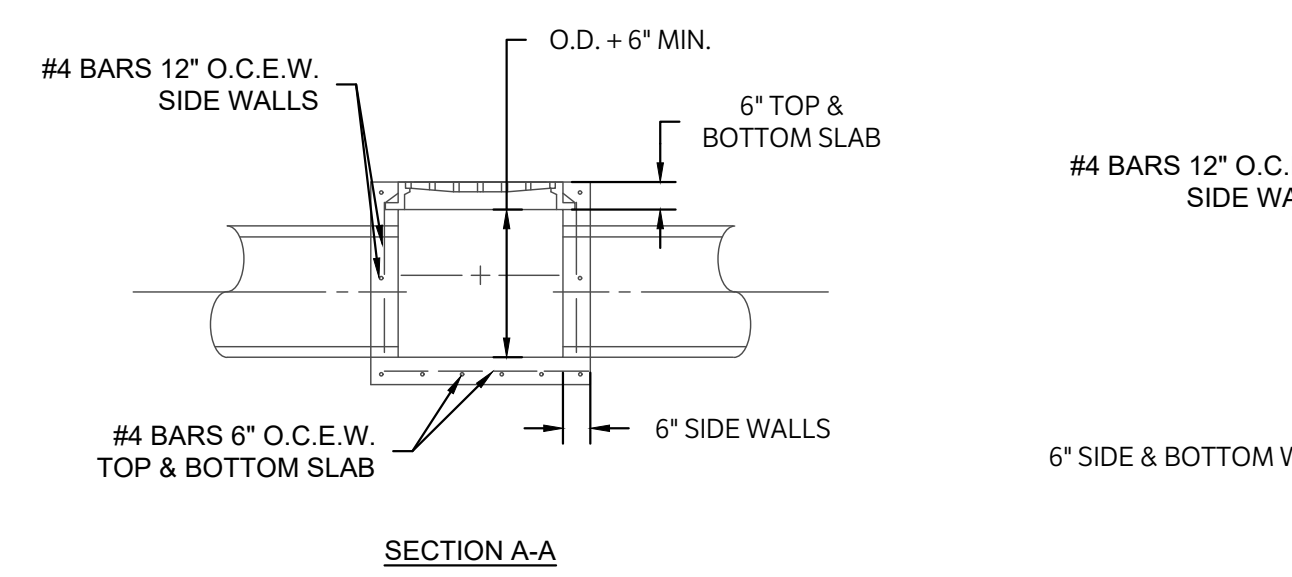
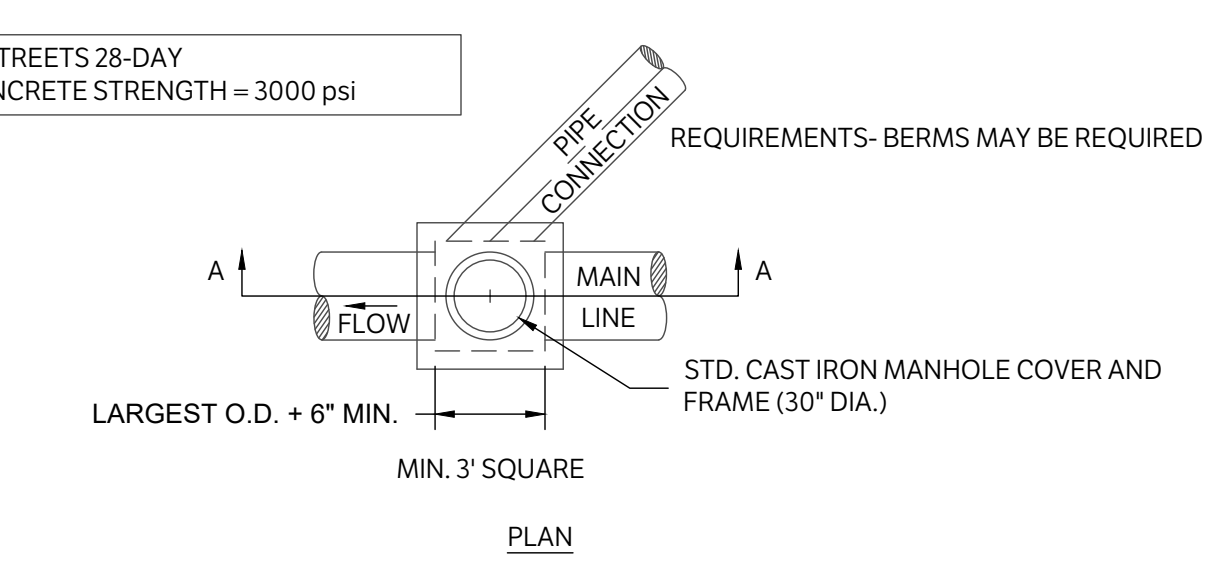
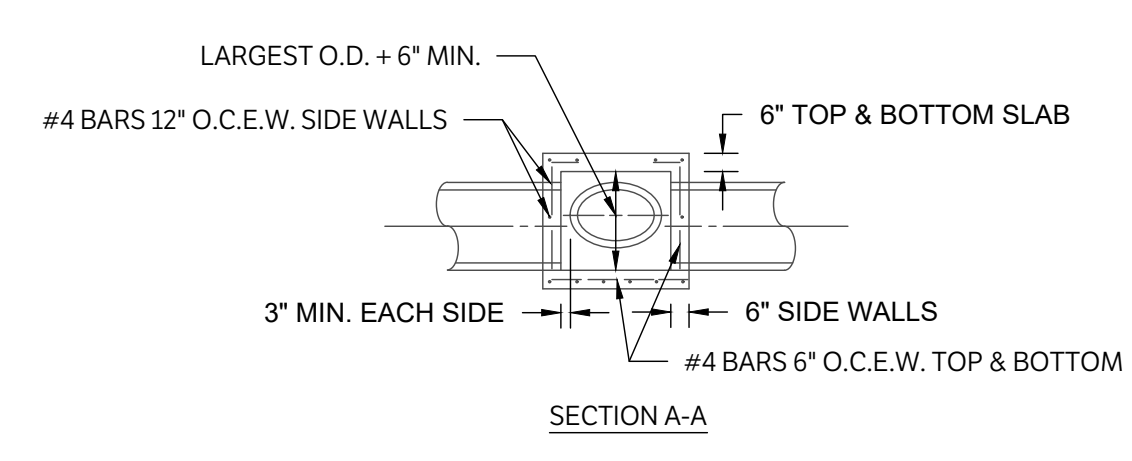
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.

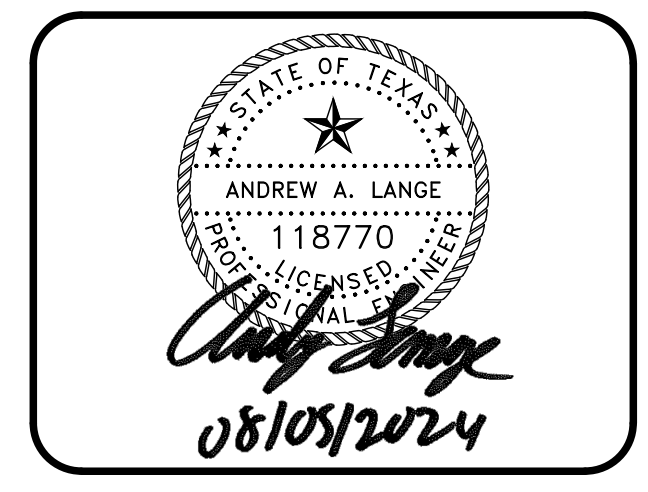
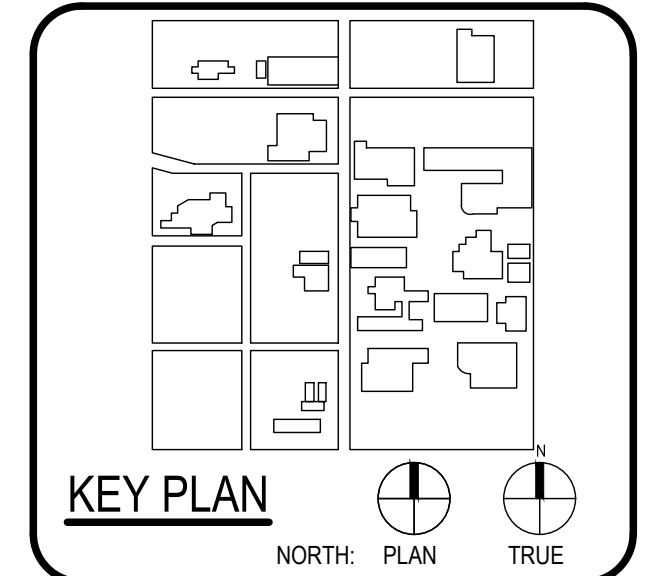
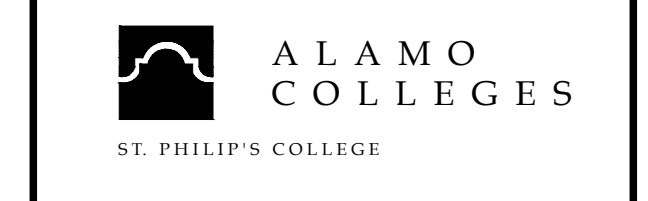
- NOTES:**
- FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS FOR OPEN CUT STREETS.
 - ALL BEDDING & INSTALLATION OF HDPE PIPE SHALL BE IN ACCORDANCE WITH ANSII/AWA STANDARDS FOR HDPE PIPE.
 - COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
 - RELATIVE COMPACTION SHALL BE TESTING IN THE PRESENCE OF THE ENGINEER.
 - DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK, EITHER INSIDE OR OUTSIDE THE RIGHT-OF-WAY, SHALL BE CONTROLLED BY THE CONTRACTOR.
 - ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLATING PLACED AT THE END OF EACH WORKING DAY IN AREAS TO BE PAVED. PROTECT ALL OPEN TRENCHES AT THE END OF EACH WORKING DAY.
 - HDPE LINES WITH WELDED JOINTS MAY BE BACKFILLED PRIOR TO TESTING AT CONTRACTOR'S RISK.

BEDDING AND TRENCH FOR HDPE PIPE
NTS



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601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
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TX Firm BR 1608

WFAC Black Box Addition PKG 1



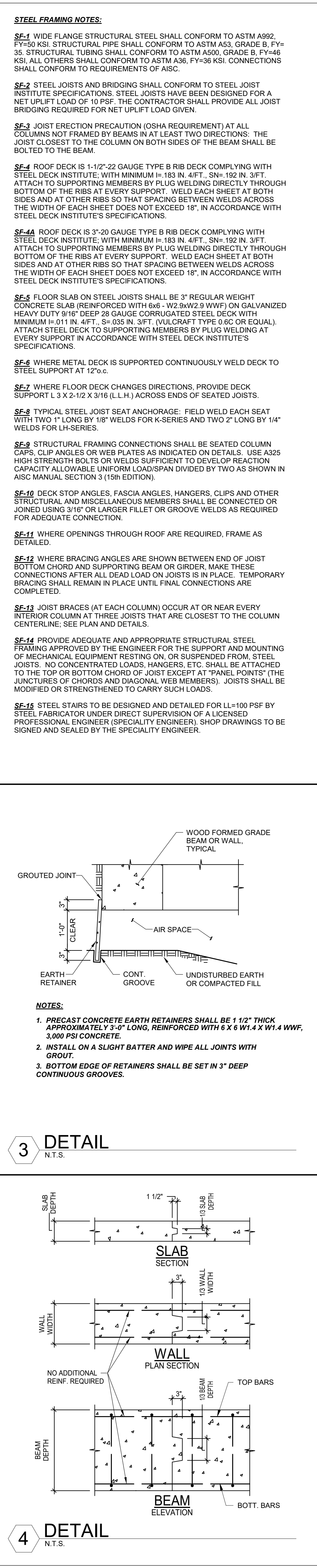
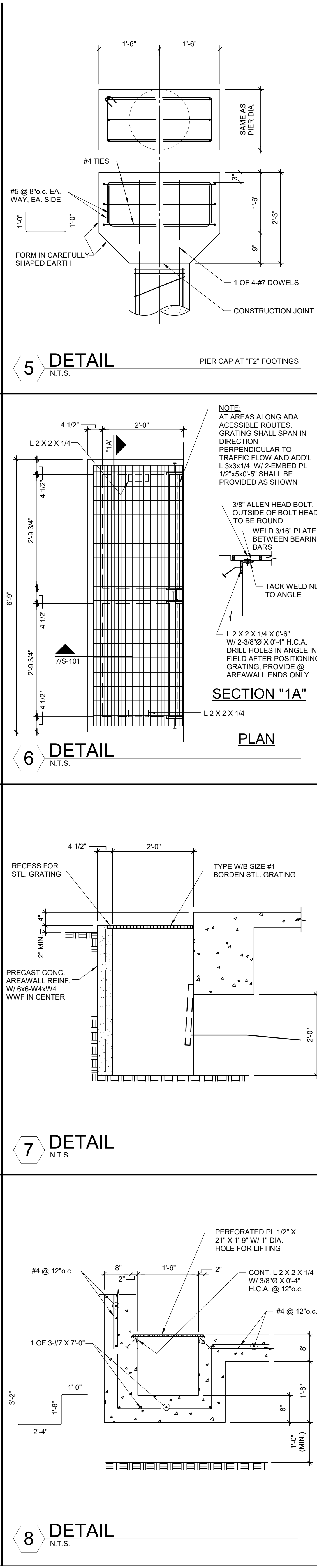
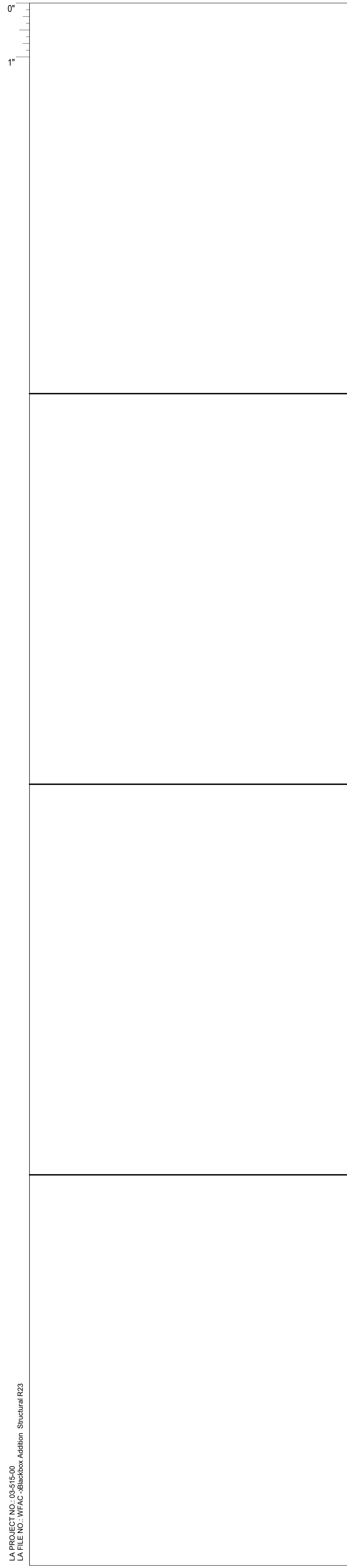
CLIENT: Alamo Colleges
DATE: 2024/06/12 PROJECT NUMBER: 230462

No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

DETAILS

C1200



REINFORCING BAR LAP SPICE TABLE (MASONRY), (BEAMS AND COLUMNS), (SLABS AND WALLS). Includes tables for bar size, position, and lap class.

COLUMN SCHEDULE table with columns for MARK, SECT., TOP CONN., BASE PLATE, ANCHORS, SECT., and REMARKS. Includes a detail drawing of a column and baseplate.

FOOTING SCHEDULE table with columns for MARK, DIA., VERT. BARS, SPIRAL, and DEPTH. Includes DRILLED FOOTING NOTES, CONTRACTOR NOTE, and a key plan.

Professional Engineer seal for Shawn J. Franke, project information for WFCAC Black Box Addition, and notes/sections & details.

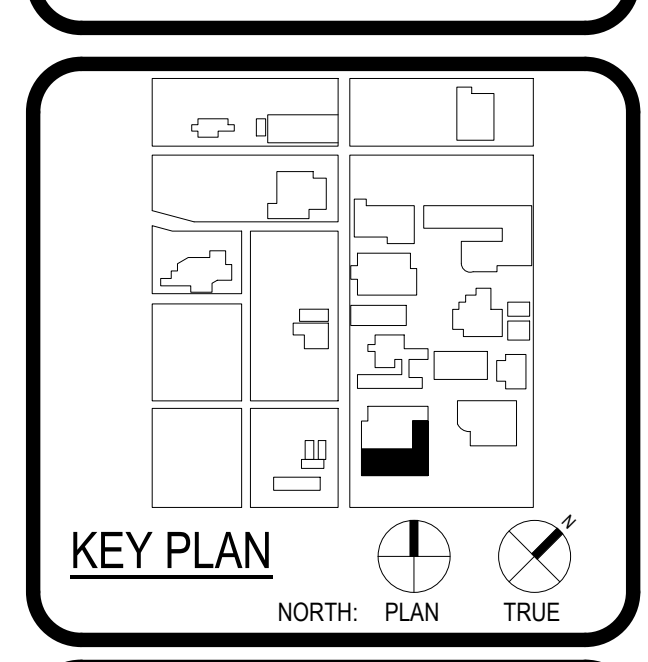


ARCHITECT SAN ANTONIO PBK Architects, Inc. 601 N.W. Loop 410, Suite 400, San Antonio, TX 78216

ENGINEERING LUNDY & FRANKE 568 HEIMER ROAD, SAN ANTONIO, TEXAS 78232

WFCAC Black Box Addition PKG 1. 1801 Marlin Luther King Dr., San Antonio, TX 78203. ISSUE FOR CONSTRUCTION

ALAMO COLLEGES ST. PHILLIP'S COLLEGE



CLIENT: Alamo Colleges, PROJECT NUMBER: 230462, DATE: 2024/05/23

ISSUE FOR CONSTRUCTION. BUILDING NUMBER: AB

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

DEFERRED SUBMITTALS			
BUILDING CONSTRUCTION	YES	NO	DESCRIPTION
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

6. MASONRY CONSTRUCTION			
EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY, AND MASONRY VENEER IN NON-ESSENTIAL FACILITIES.	SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1	IBC 1705.4	
LEVEL 1 INSPECTION:	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	1. PROPORTIONS OF SITE-PREPARED MORTAR. 2. CONSTRUCTION OF MORTAR JOINTS. 3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCING BARS. 5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	1. GROUT SPACE IS CLEAN. 2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. 3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. 4. CONSTRUCTION OF MORTAR JOINTS.		
D. GROUT PLACEMENT	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. 2. GROUTING OF PRESTRESSING BONDED TENDONS.		
E. PREPARATION OF ANY AT THE COVERED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
F. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	1. TEST ONE SET OF MORTAR CUBES PER 2000 sq OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sq OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sq OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093
LEVEL 1 INSPECTION CONT.:	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.1, 1704.5.2	QUALIFICATIONS BASED ON ASTM C1093
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

4. STEEL CONSTRUCTION			
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	IBC 1705.2	STRUCTURAL STEEL GENERAL NOTES
B. HIGH STRENGTH BOLTING:	1. BEARING-TYPE CONNECTIONS. 2. SLIP-CRITICAL CONNECTIONS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES AISC LRFD SECTION M2.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES ASTM A 6 OR AISC LRFD SECTION A3.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	ASTM A 588 AWS, ASD, SECTION A3.6, AISC LRFD SECTION A3.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
E. WELDING OF STRUCTURAL STEEL:	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS. 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < 5/16" 5. FLOOR AND DECK WELDS.	IBC 1705.2.1 STRUCTURAL STEEL GENERAL NOTES AWS D1.1 AWS D1.3	CW/ AND ASNT OR LICENSED ENGINEER
F. WELDING OF REINFORCING STEEL:	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A500. 2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. 3. SHEAR REINFORCEMENT. 4. OTHER REINFORCING STEEL.	IBC 1705.2.1.2 STEEL AWS D1.3	CW/ASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
G. STEEL FRAME JOINT DETAILS, COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	1. DETAILS SUCH AS BRACING & STIFFENING. 2. MEMBER LOCATIONS. 3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	IBC 1705.2.1 STRUCTURAL DRAWINGS	PROJECT OF COMPLEX DETAILS - ASSOCIATE CW/ PROJECTS OF RELATIVELY SIMPLE DETAILS - TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

6. MASONRY CONSTRUCTION CONT.			
LEVEL 2 INSPECTION:	ENGINEERED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS. 2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. 3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. 4. GROUT SPACE PRIOR TO GROUTING. 5. PLACEMENT OF GROUT. 6. PLACEMENT OF PRESTRESSING GROUT.		
B. THE INSPECTION PROGRAM SHALL VERIFY:	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCEMENT. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.	1. TEST ONE SET OF MORTAR CUBES PER 2000 sq OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sq OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sq OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093

5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL			
FABRICATION & IMPLEMENTATION PROCEDURES	FABRICATION AND IMPLEMENTATION PROCEDURES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL RECORDS OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. EXCEPTION: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL. UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1	CW/ ASNT, LICENSED ENGINEER

3. CONCRETE CONSTRUCTION CONT.			
G. PLACEMENT OF CONCRETE & SHOTCRETE.	CONTINUOUS	ACI 318-CH. 5.9, 5.10	QUALIFICATIONS BASED ON ASTM C1077
H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	PERIODIC	EACH CONCRETE POUR	ACI 318-CH. 5.11, 5.13
I. PRESTRESSED CONCRETE.	NA	1. APPLICATION OF PRESTRESSING FORCE 2. GROUTING OF BONDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.	QUALIFICATIONS BASED ON ASTM C1077
J. ERECTION OF PRECAST CONCRETE MEMBERS.	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.	TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
K. POST-TENSIONED CONCRETE.	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS. 2. THE POST-TENSIONING ENGINEER OR A MEMBER OF HIS STAFF SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN. 3. CONTINUOUS INSPECTION IS REQUIRED DURING ALL STRESSING ACTIVITIES. 4. RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE MADE IN ACCORDANCE WITH THE PTF FIELD MANUAL AND RECORDS SHALL BE PROMPTLY SUBMITTED TO THE ARCHITECT AND ENGINEER.	QUALIFICATIONS BASED ON ASTM E828
L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	ACI 318-CH. 5.11, 5.13
M. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1

4. STEEL CONSTRUCTION CONT.			
A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	IBC 1705.2	STRUCTURAL STEEL GENERAL NOTES
B. HIGH STRENGTH BOLTING:	1. BEARING-TYPE CONNECTIONS. 2. SLIP-CRITICAL CONNECTIONS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES AISC LRFD SECTION M2.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
C. MATERIAL VERIFICATION OF STRUCTURAL STEEL.	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES ASTM A 6 OR AISC LRFD SECTION A3.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	ASTM A 588 AWS, ASD, SECTION A3.6, AISC LRFD SECTION A3.5	CW/ASSOCIATE/TECHNICAL RADIATE, AWS OR CRSI
E. WELDING OF STRUCTURAL STEEL:	1. COMPLETE & PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS. 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < 5/16" 5. FLOOR AND DECK WELDS.	IBC 1705.2.1 STRUCTURAL STEEL GENERAL NOTES AWS D1.1 AWS D1.3	CW/ AND ASNT OR LICENSED ENGINEER
F. WELDING OF REINFORCING STEEL:	1. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A500. 2. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. 3. SHEAR REINFORCEMENT. 4. OTHER REINFORCING STEEL.	IBC 1705.2.1.2 STEEL AWS D1.3	CW/ASSOCIATE/TECHNICAL TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
G. STEEL FRAME JOINT DETAILS, COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	1. DETAILS SUCH AS BRACING & STIFFENING. 2. MEMBER LOCATIONS. 3. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	IBC 1705.2.1 STRUCTURAL DRAWINGS	PROJECT OF COMPLEX DETAILS - ASSOCIATE CW/ PROJECTS OF RELATIVELY SIMPLE DETAILS - TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
H. POST INSTALLED REINFORCING & ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS ADHESIVE ANCHORS, ECT.).	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE OR MASONRY TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE OR MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE

2A. PILE FOUNDATIONS			
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE.	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077

3. CONCRETE CONSTRUCTION			
A. REINFORCING STEEL	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: COLUMNS: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1705.3 ACI 318-CH. 3.5, 7.1.7.7
B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWS D1.4 ACI 318-3.5.2
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2.4
F. SAMPLES OF FRESH CONCRETE.	CONTINUOUS EACH CONCRETE POUR.	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 90 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PORTING (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8

Pursuant to IBC Chapter 17 (1704.2.1) provide the following Special Inspector Qualifications to the RDP/RC prior to start of inspections;

- Testing Laboratory Qualifications meeting ASTM0329 and accreditation by AASHTO and/or A2LA, and CCRL of the National Bureau of Standards.
- Special Inspector's name and proof of meeting the qualification requirements set forth in:
 - ASTM C1077 for concrete,
 - ASTM D3740 for soils,
 - ASTM C1093 for masonry.
 - ASTM D-2922 and D-3017 for Density control of compaction

IBC 1704.2.1 "written documentation demonstrating the competence and relevant experience or training of special inspectors who will perform special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities." These qualifications are in addition to qualifications specified in other sections of the IBC.

TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)

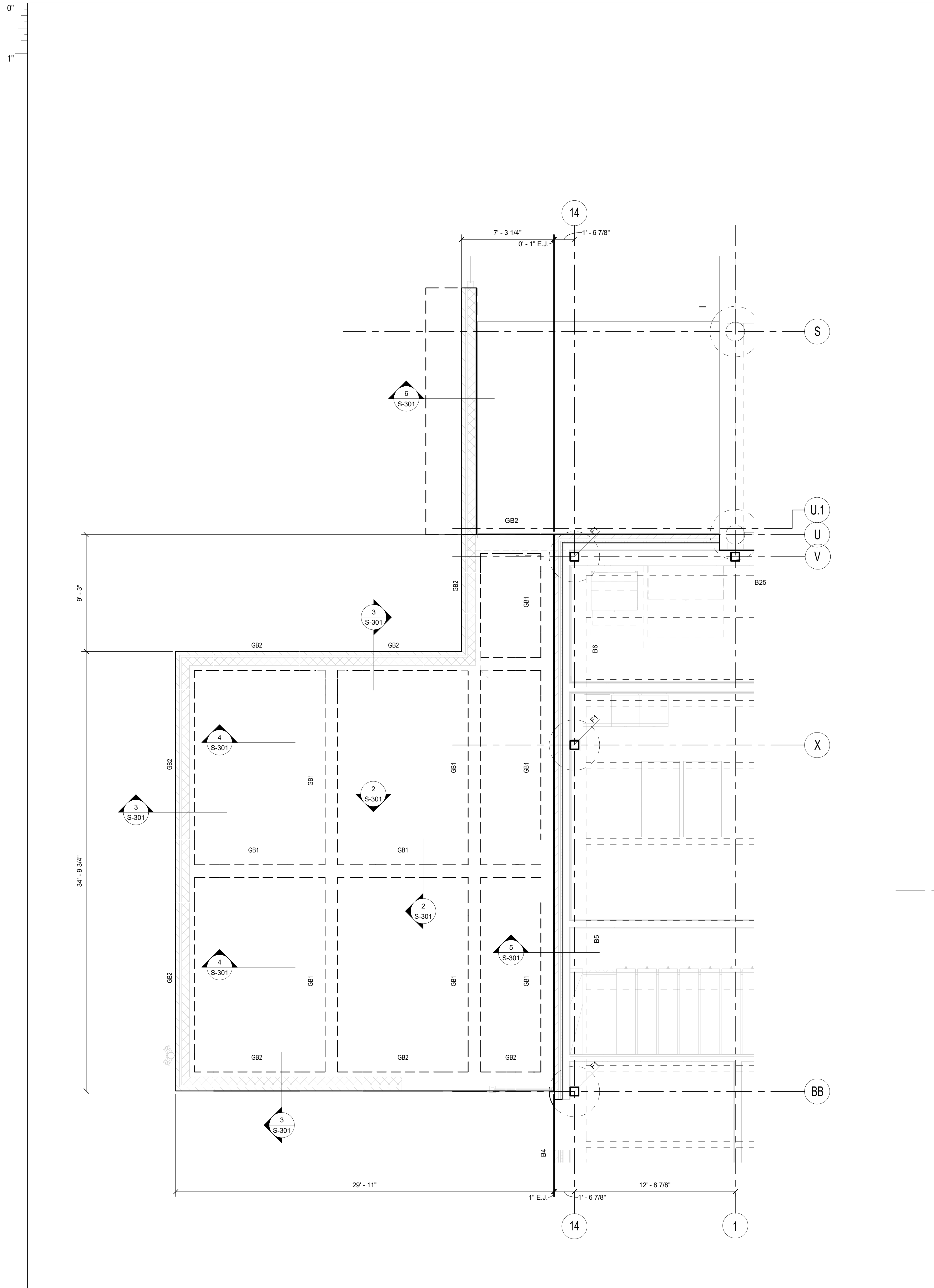
REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CODES	INSPECTOR QUALIFICATIONS
1. SOILS (SLAB ON GRADE)		SITE PREPARATION: AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	IBC 1705.6	QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR
2. PROFFROLLING OBSERVATIONS	CONTINUOUS	PROFFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES. PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
3. MOISTURE CONDITIONING & CURE	PERIODIC	PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
B. CHEMICAL INJECTION	NA	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS: TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
C. DURING FILL PLACEMENT	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTION OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMAL LIFT THICKNESS COMPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
D. EVALUATION OF IN-PLACE DENSITY OF FILL	PERIODIC	PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
E. TRENCH BACKFILLING:	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.	IBC 1705.6 IBC 1705.8	QUALIFICATIONS BASED ON ASTM D3740
2B. PIER FOUNDATIONS		1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORESEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.	NA	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7 IBC 1705.8	GRADUATE ENGINEER QUALIFICATIONS BASED ON ASTM E828 & ASTM C1077
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B. REINFORCING STEEL WELDING	-	NO FIELD WELDING PERMITTED.	AWS D1.4 ACI 318-3.5.2	CW/ OR ASSOCIATE CW/
C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	**TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR OF EXPERIENCE.
E. VERIFY USE OF CONCRETE MIX DESIGN	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2.4	QUALIFICATIONS BASED ON ASTM C1077
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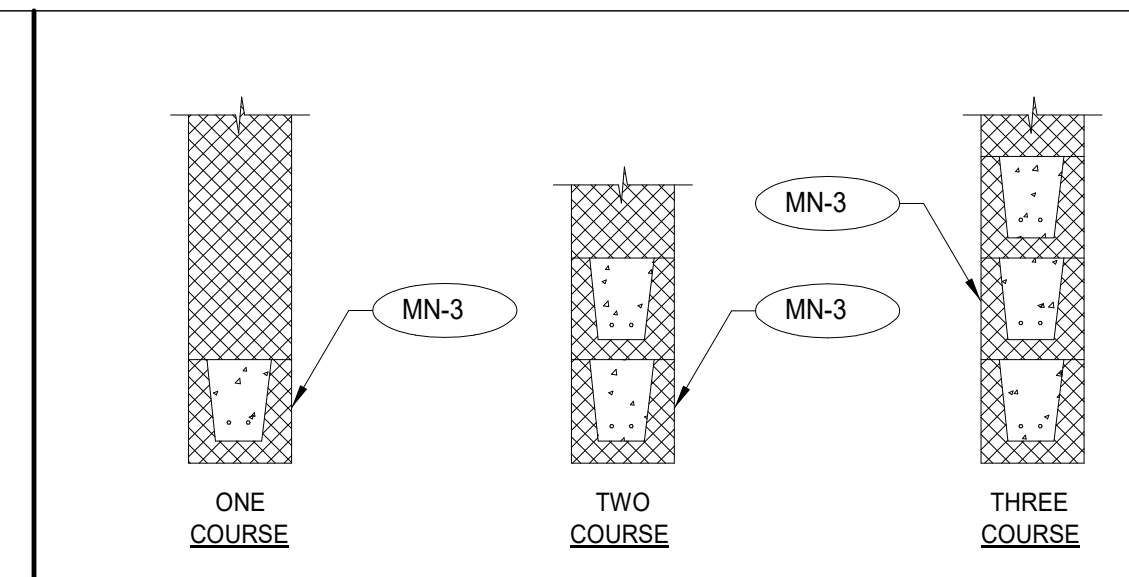
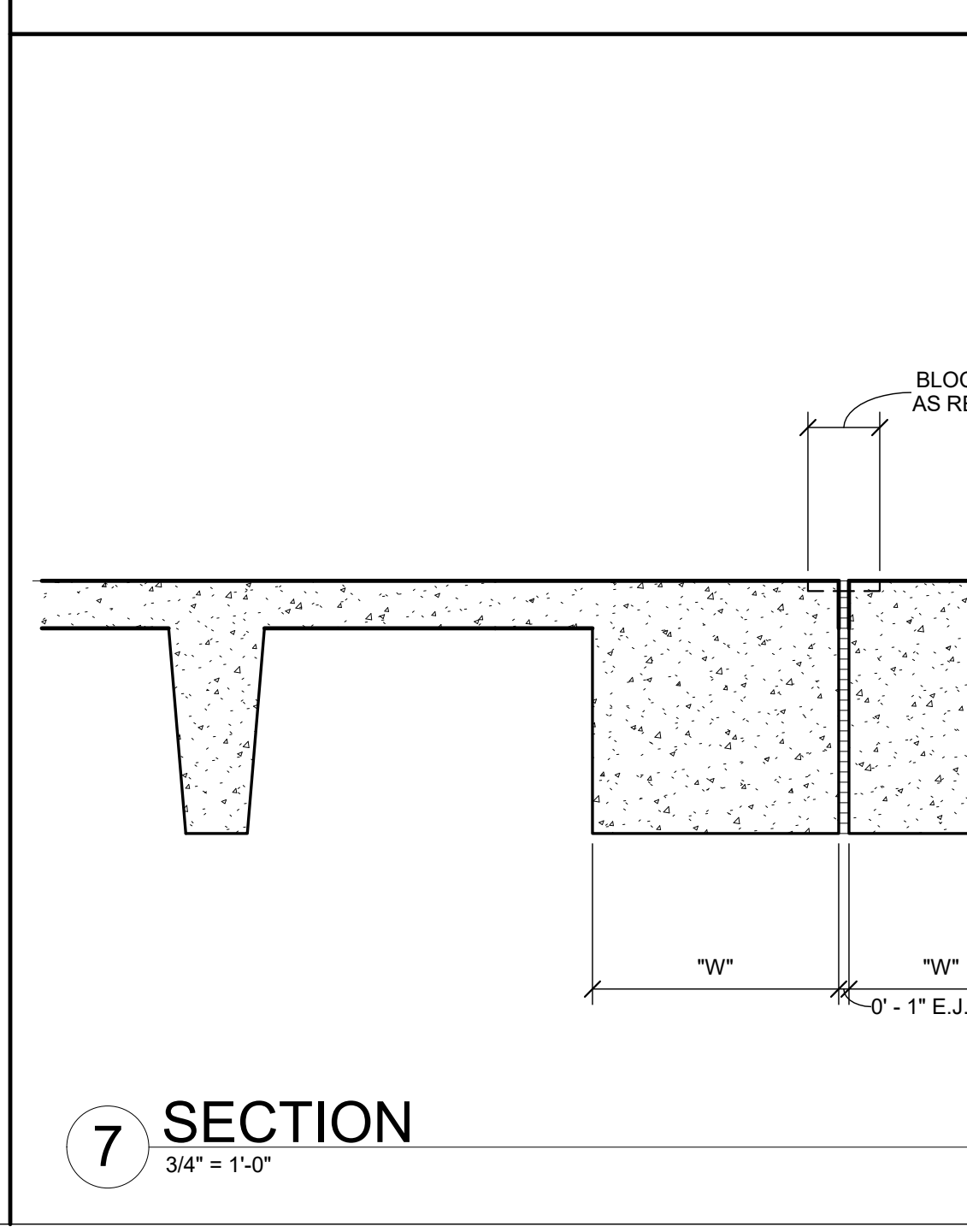
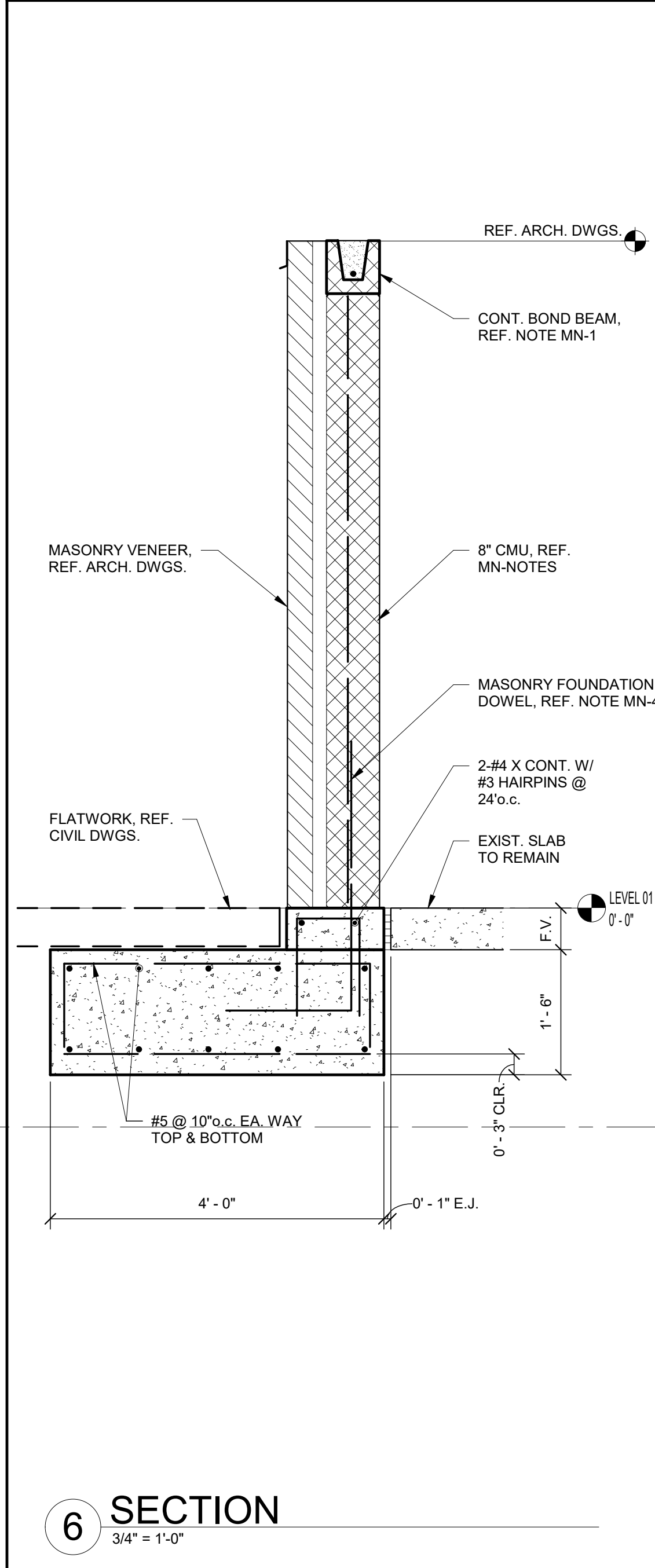
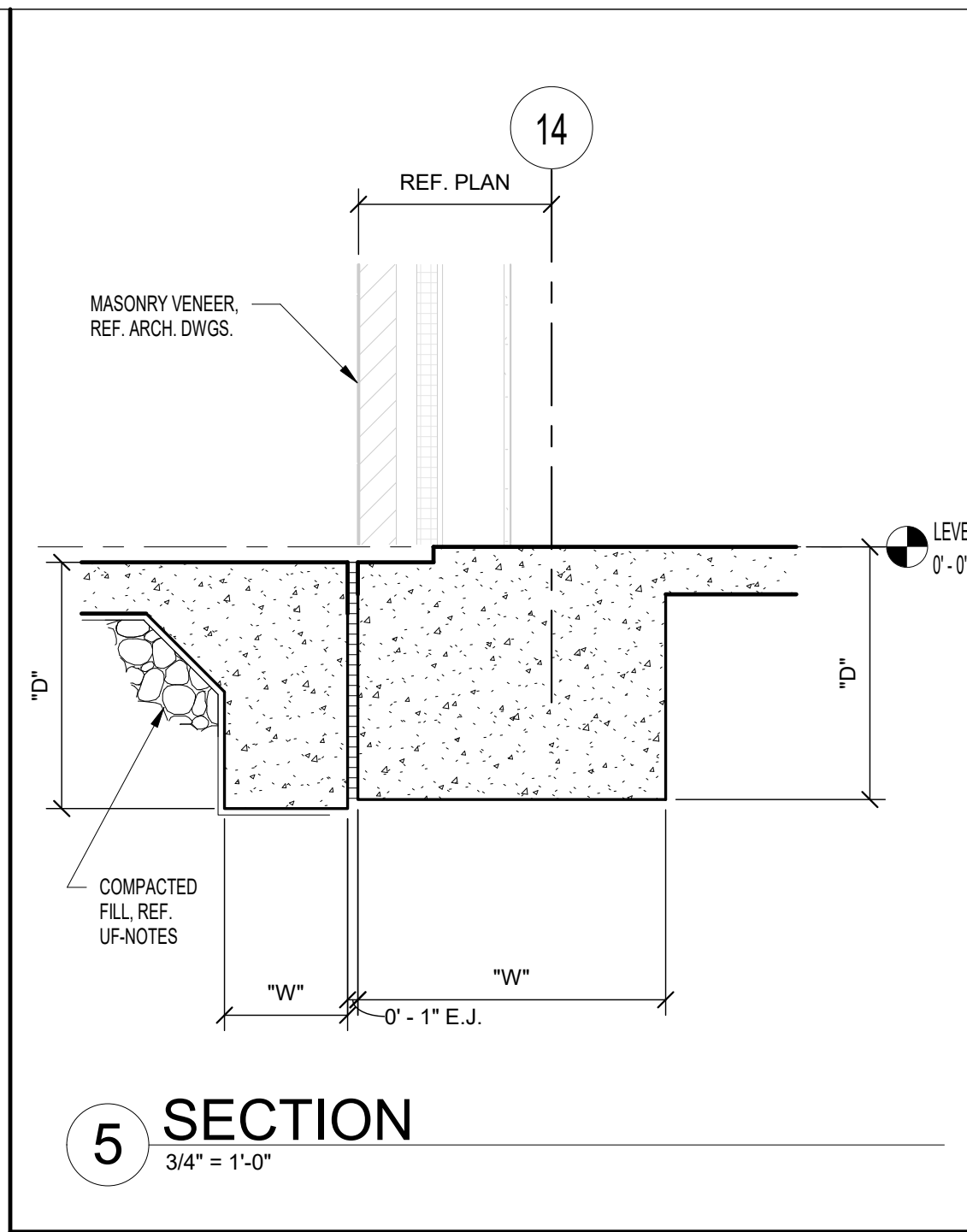
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MECHANICAL YARD FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



SIZE	CLEAR OPENING		REMARKS
	GREATER THAN	UP TO	
ONE COURSE	-	4'-0"	8" BEARING @ EA. END
TWO COURSE	4'-0"	8'-6"	8" BEARING @ EA. END
THREE COURSE	8'-6"	14'-0"	8" BEARING @ EA. END

MASONRY WALL REINFORCEMENT:

MN-1 PROVIDE GROUDED REINFORCED VERTICAL CELLS AND HORIZONTAL BOND BEAMS AT WALL TOP EDGES, CORNERS, FREE ENDS, WINDOW AND DOOR JAMBS, LINTELS AND OTHER LOCATIONS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. REINFORCE EACH GROUDED CELL AND BOND BEAM WITH 1-#4 BAR CONTINUOUS (REINFORCE LINTELS AS SPECIFIED BELOW).

MN-2 BASIC VERTICAL REINFORCEMENT FOR EXTERIOR WALLS SHALL BE #4 @ 32" o.c. (EVERY 4th VERTICAL CELL).

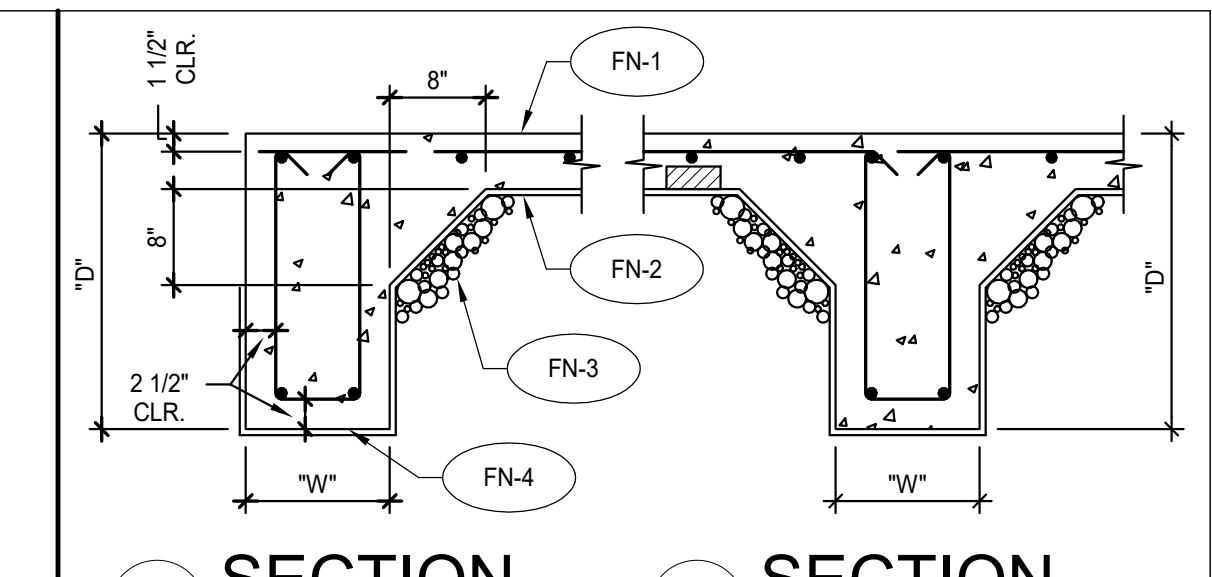
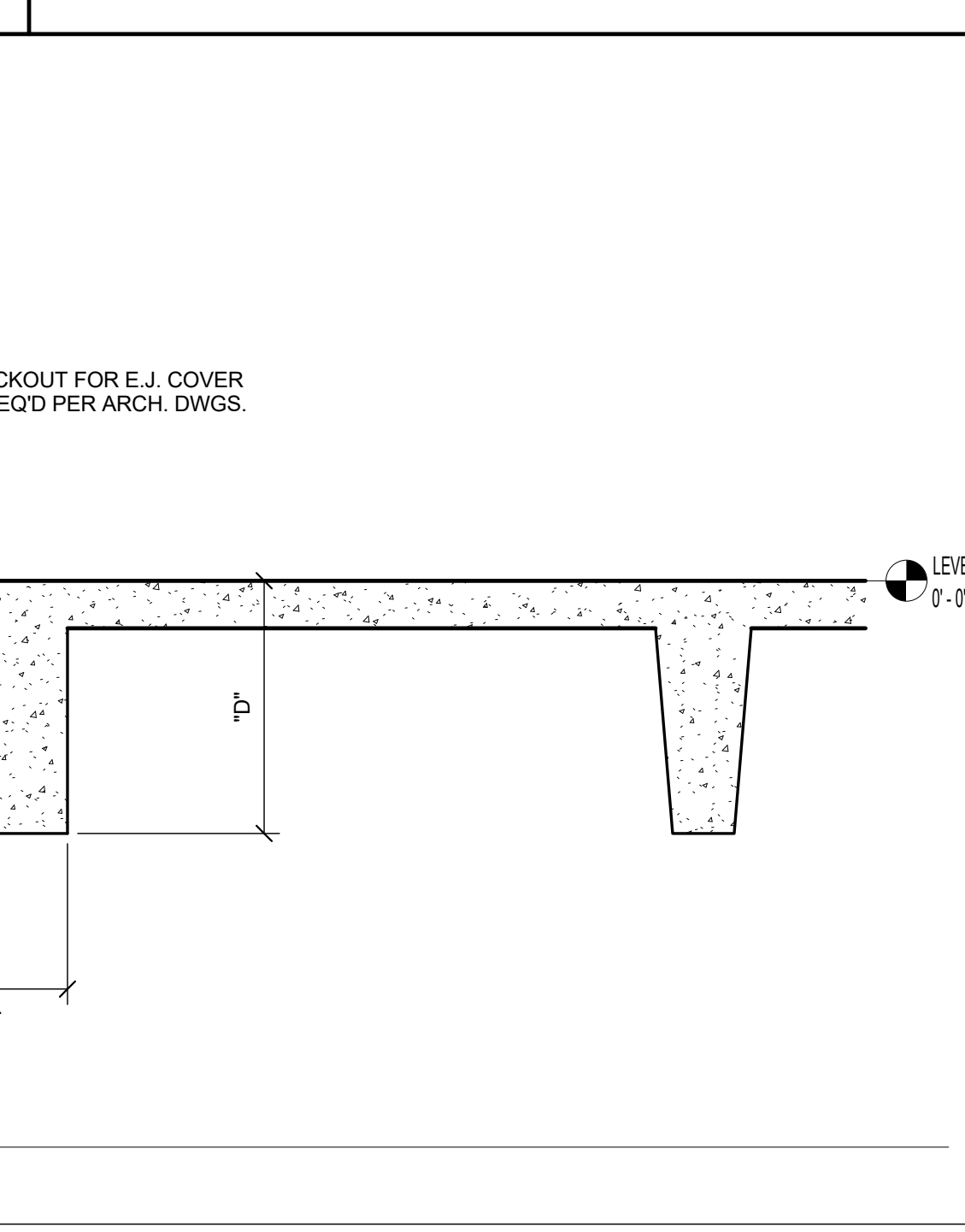
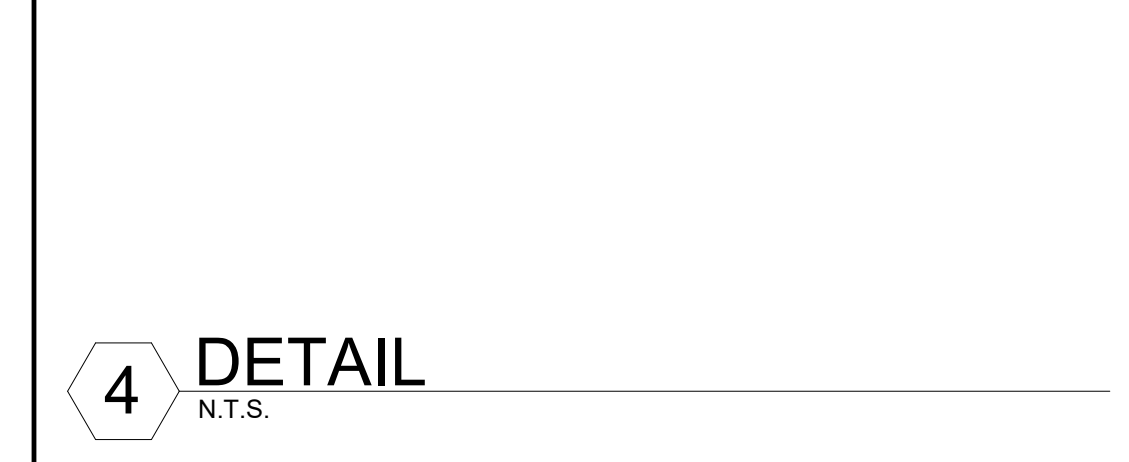
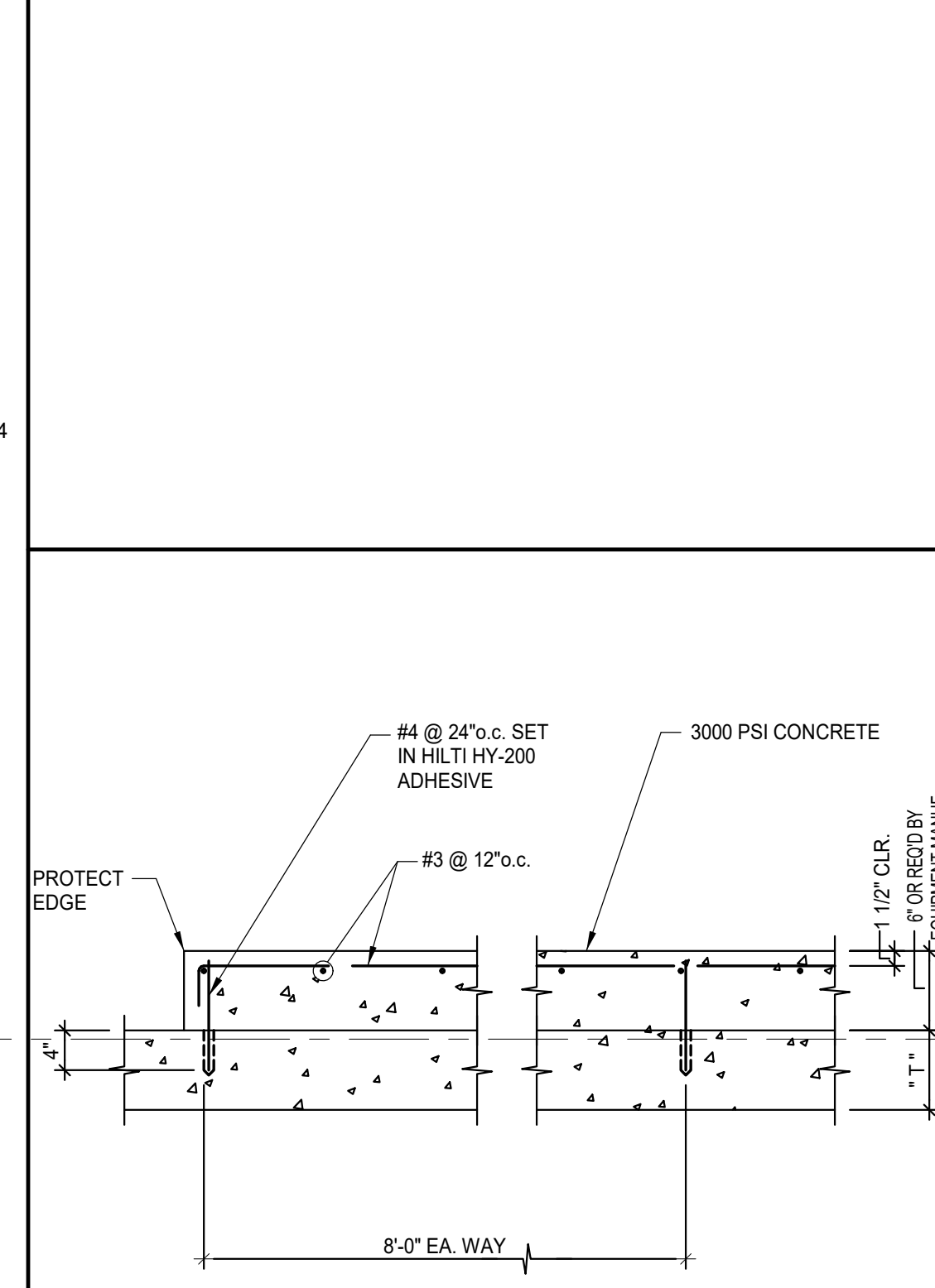
MN-3 PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 8'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

MN-4 PROVIDE MATCHING DOWELS IN FOUNDATION FOR ALL VERTICAL REINFORCEMENT.

MN-5 CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

MN-6 ANCHOR MASONRY TO STRUCTURE AS SHOWN IN DETAILS. SEE SPECIFICATIONS FOR ORDINARY MASONRY ANCHORS INCLUDING DOVETAIL ANCHOR SLOTS IN ADJACENT CONCRETE MEMBERS.

MN-7 LEVEL 1 INSPECTED MASONRY REQUIRES CONTRACTOR TO SUBMIT, AT CONTRACTOR'S COST, COMPRESSIVE WALL DESIGN STRENGTH (Fm) VERIFIED BY INDEPENDENT TESTING LAB BY PRISM TESTS BEFORE MASONRY CONSTRUCTION BEGINS. PROVIDE UNIT MASONRY STRENGTH, GROUT MIX DESIGN AND MORTAR MIX DESIGN.



1 SECTION 3/4" = 1'-0"
2 SECTION 3/4" = 1'-0"

MARK	W x D*	GRADE BEAM SCHEDULE	
		MAIN REINFORCING	TIES
GB1	12 x 24"	2-#6 x CONT. TOP & BOTTOM	#3 @ 24" o.c.
GB2	18 x 24"	3-#6 x CONT. TOP & BOTTOM	#3 @ 24" o.c.

* REF. NOTE FN-4

FOUNDATION NOTES:

FN-1 5" CONCRETE SLAB REINFORCED W/ #4 @ 12" o.c. EACH WAY IN TOP. SUPPORT AT 4'-0" o.c. EACH WAY WITH CONCRETE BLOCKS OR BRICKS. SUPPORT BOTTOM BEAM REINFORCEMENT AT 4'-0" INTERVALS.

FN-2 15 MIL. POLYOLEFIN VAPOR RETARDER UNLESS NOTES OTHERWISE IN SPECIFICATIONS. AT ALL JOINTS PROVIDE 6" LAPS W/ 4" TAPE.

FN-3 COMPACTED SELECT FILL (SEE UF-6 "UNDERFLOOR FILL NOTES").

FN-4 ALL BEAM SOFFITS SHALL BEAR 24" MINIMUM INTO NATURAL GRADE OR COMPACTED FILL. ON PERIMETER, INCREASE SCHEDULED BEAM DEPTH AS REQUIRED FOR SOFFIT TO BEAR 24" MINIMUM BELOW FINISH GRADE. REF GEOTECHNICAL REPORT. ALL PERIMETER GRADE BEAMS SHALL BEAR ON LIMESTONE.

FN-5 GRADE BEAMS AND SLAB TURNDOWNS SHALL BE FORMED BY WALLS AND SOFFIT OF CAREFULLY SHAPED TRENCH. USE A SMOOTH-MOUTHED BUCKET. IF A TOOTHED BUCKET IS USED, EXCAVATION SHALL BE STOPPED 6" ABOVE FINAL GRADE AND THE REMAINING EXCAVATION ACCOMPLISHED WITH A SMOOTH MOUTHED BUCKET OR BY HAND LABOR TO REMOVE ALL LOOSE SOILS DISTURBED BY THE BUCKET TEETH. WOODFORM EXPOSED FACES TO A DEPTH OF 8" BELOW FINISHED GRADE.

FN-6 AT ALL BEAM CORNERS & T-INTERSECTIONS, PROVIDE 4-#7 x 6'-0" CORNER BARS (2-TOP AND 2-BOTTOM).

FN-7 TRENCHES SHALL BE VERIFIED FOR SIZE TO MAINTAIN CLEARANCES AROUND REINFORCEMENT PRIOR TO PLACING REINFORCEMENT.

FN-8 WHERE BEAM DEPTH EXCEEDS 36", ADD #4 @ 12" o.c. IN EACH FACE OF BEAM.

UNDERFLOOR FILL NOTES:

UF-1 BEFORE ANY CONSTRUCTION IS BEGUN, PERFORM ROUGH GRADING AND CUT SWALES SO THAT GROUNDS WILL DRAIN AWAY FROM THE BUILDING. MAINTAIN DRAINAGE DURING ALL PHASES OF CONSTRUCTION SO THAT STORM WATER WILL BE CONDUCTED AWAY FROM THE BUILDING. KEEP EXCAVATIONS PUMPED FREE OF STORM WATER AT ALL TIMES.

UF-2 PRECAUTIONS SHALL BE TAKEN TO PROTECT OPEN EXCAVATIONS FROM EXCESSIVE LOSS OR GAIN IN NATURAL MOISTURE LEVEL PRIOR TO PLACEMENT OF BASE MATERIAL. KEEP MOIST DURING DRY WEATHER AND KEEP STORM WATER PUMPED OUT, INCLUDING NIGHTS AND WEEKENDS, DURING RAINS.

UF-3 IN THE AREA OCCUPIED BY THE FOUNDATION AND ALL ADJACENT SIDEWALKS, PLUS 3'-0", REMOVE A MINIMUM OF 7'-0" OF TOPSOIL INCLUDING ALL ORGANIC MATERIALS, ROOTS, ETC. FROM THE SITE. DO NOT USE FOR UNDERFLOOR FILL. REMOVE ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE A MINIMUM OF 7'-0" OF SELECT FILL AS PER UF-6.

UF-4 THE RESULTING SURFACE SHALL BE PROOF ROLLED WITH A SUFFICIENTLY HEAVY ROLLER (15 TONS) TO LOCATE AND DENSITY WEAK AND COMPRESSIBLE ZONES. A MINIMUM OF 6 PHASSES OF THE ROLLER IS REQUIRED. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT FILL.

UF-5 THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

UF-6 FOR A DISTANCE OF 3'-0" OUTSIDE OF THE BUILDING LINE AND ALL ADJACENT SIDEWALKS, AND BEGINNING AT THE LOW END, BUILD UP TO THE ELEVATION OF THE BOTTOM OF THE SLAB WITH SELECT CRUSHED STONE FILL CONFORMING TO TxDOT SPECIFICATIONS, ITEM 247, TYPE "A" GRADE 2. A MINIMUM THICKNESS OF 7'-0" IS REQUIRED. NO DIRT FILL SHALL BE USED UNDER THE BUILDING FOUNDATION. SUBMIT WRITTEN CERTIFICATION OF COMPLIANCE WITH TxDOT, ITEM 247 SPECIFICATIONS BY TEST PERFORMED ON FIELD EXAMPLES.

UF-7 ALL FILL SHALL BE PLACED IN 8" LOOSE HORIZONTAL LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698 COMPACTION TEST. MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED. EXCESS FILL AT BUILDING PERIMETER SHALL BE CUT AND GRADED TO COMPLY WITH FINISHED GRADE REQUIREMENTS, AND SHALL BE OVERLAIN WITH A 1'-0" THICK LAYER OF IMPERVIOUS CLAY FOR A MINIMUM DISTANCE OF 5'-0" FROM BUILDING LINE. REFER TO DETAIL 777.

UF-8 PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.

UF-9 REFERENCE GEOTECHNICAL REPORT BY: ? PROJECT No. ?, DATED ?.



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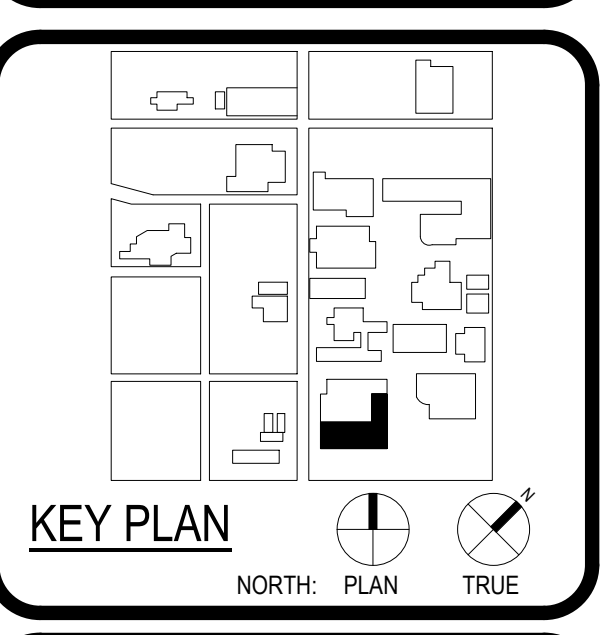


568 HEIMER ROAD
SAN ANTONIO, TEXAS 78232
TX FIRM REG. #388

WFCAC Black Box Addition PKG 1

1801 Melvin Luther King Dr.,
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

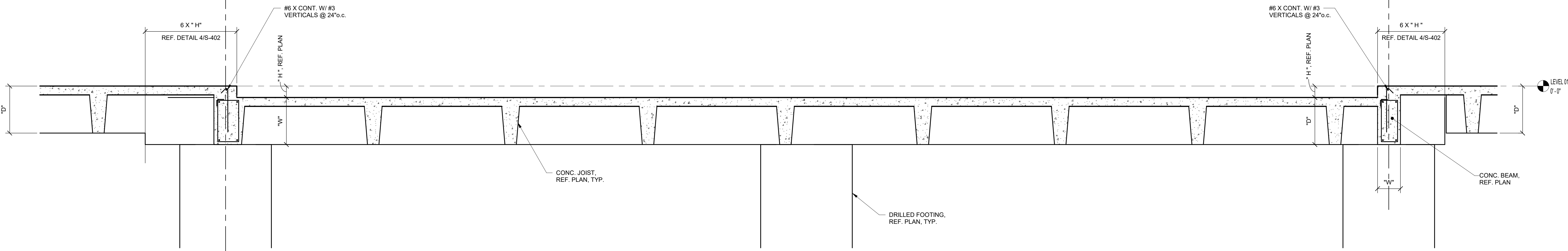
BUILDING NUMBER AB

SECTIONS, DETAILS & MECH. YARD FOUNDATION

S-301

ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00
 LA FILE NO.: WFAC-Blackbox Addition Structural R23



1 SECTION
 1/2" = 1'-0"

EE

W

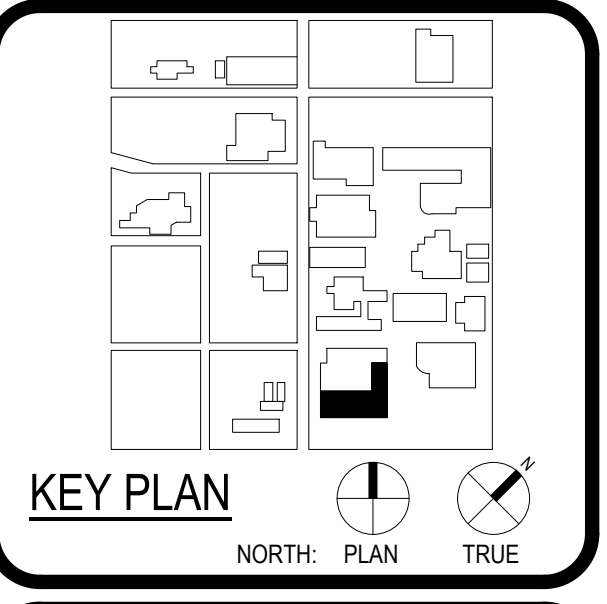


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	LUNDY & FRANKE ENGINEERING
LANDSCAPE	
ROOF AND DRIP	
STRUCTURAL	
M.E.P.	
MECHANICAL	
ELECTRICAL	
PLUMBING	
BEAM PROFESSIONALS	
MEASUREMENT	
DATE	12/20/2024

LUNDY & FRANKE ENGINEERING
 548 HEIMER ROAD PH. (210) 979-7900
 SAN ANTONIO, TEXAS 78232 FX. (210) 979-7800
 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
 San Antonio, TX, 78203
 ISSUE FOR CONSTRUCTION



DATE: 06/12/2024

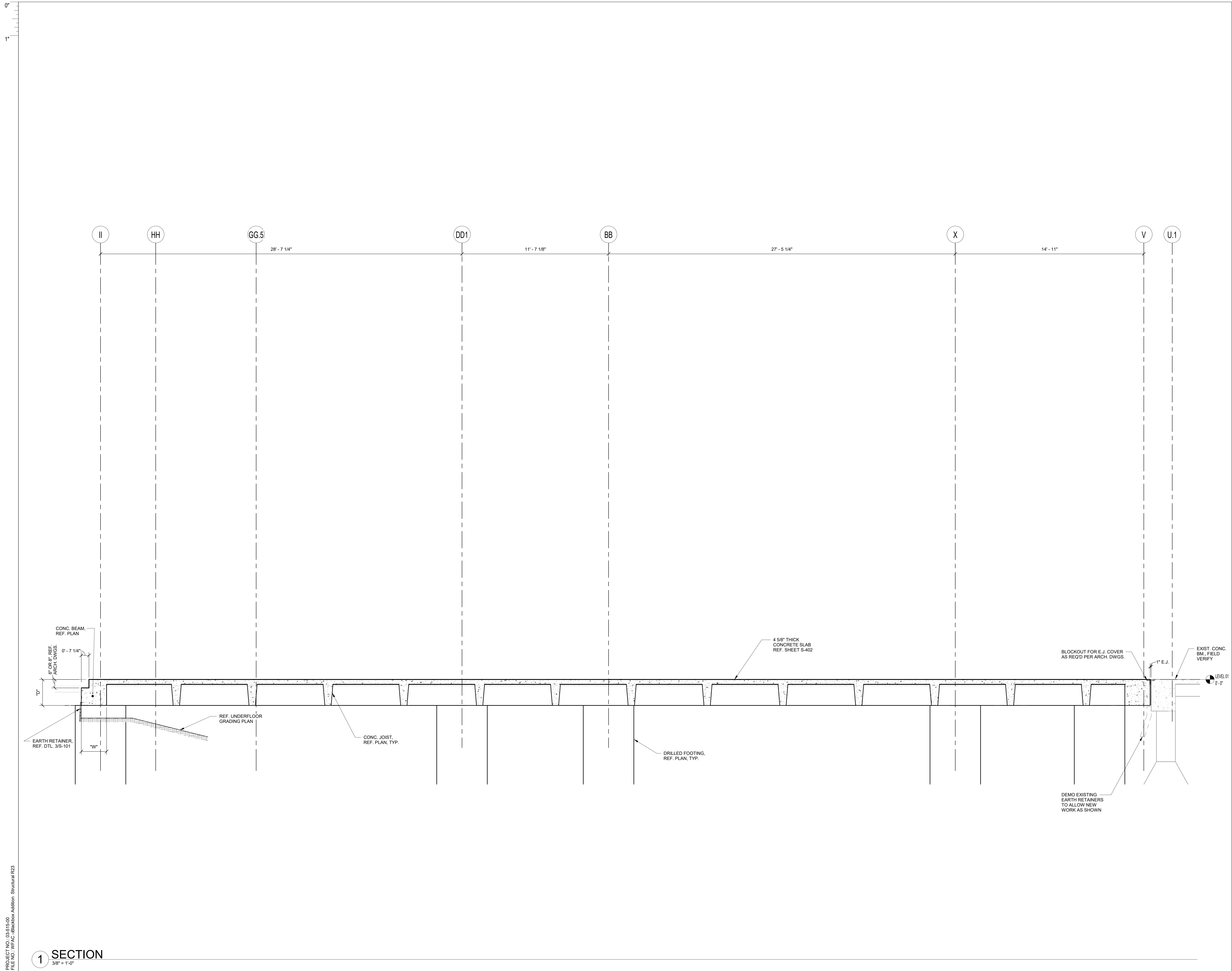
SHAWN J. FRANKE
 82639
 LICENSED PROFESSIONAL ENGINEER
 State of Texas

CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/23	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

SECTION

S-302

ISSUE FOR CONSTRUCTION



1 SECTION
3/8" = 1'-0"

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-38blackbox Addition, Structural R23

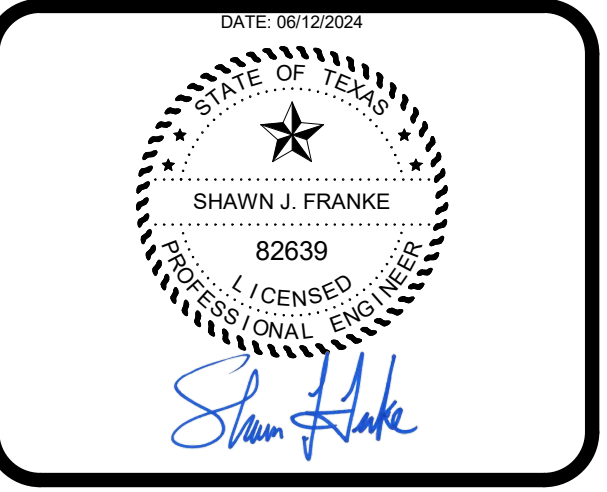
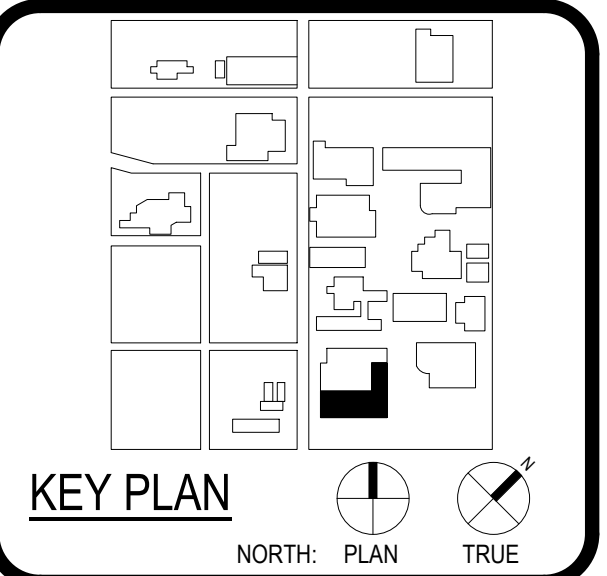


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DESIGNER	171100101
LANDSCAPE	171100102
ROOF AND DECK	171100103
STRUCTURAL	171100104
MECHANICAL	171100105
ELECTRICAL	171100106
PLUMBING	171100107
MECHANICAL	171100108
MECHANICAL	171100109
MECHANICAL	171100110



WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

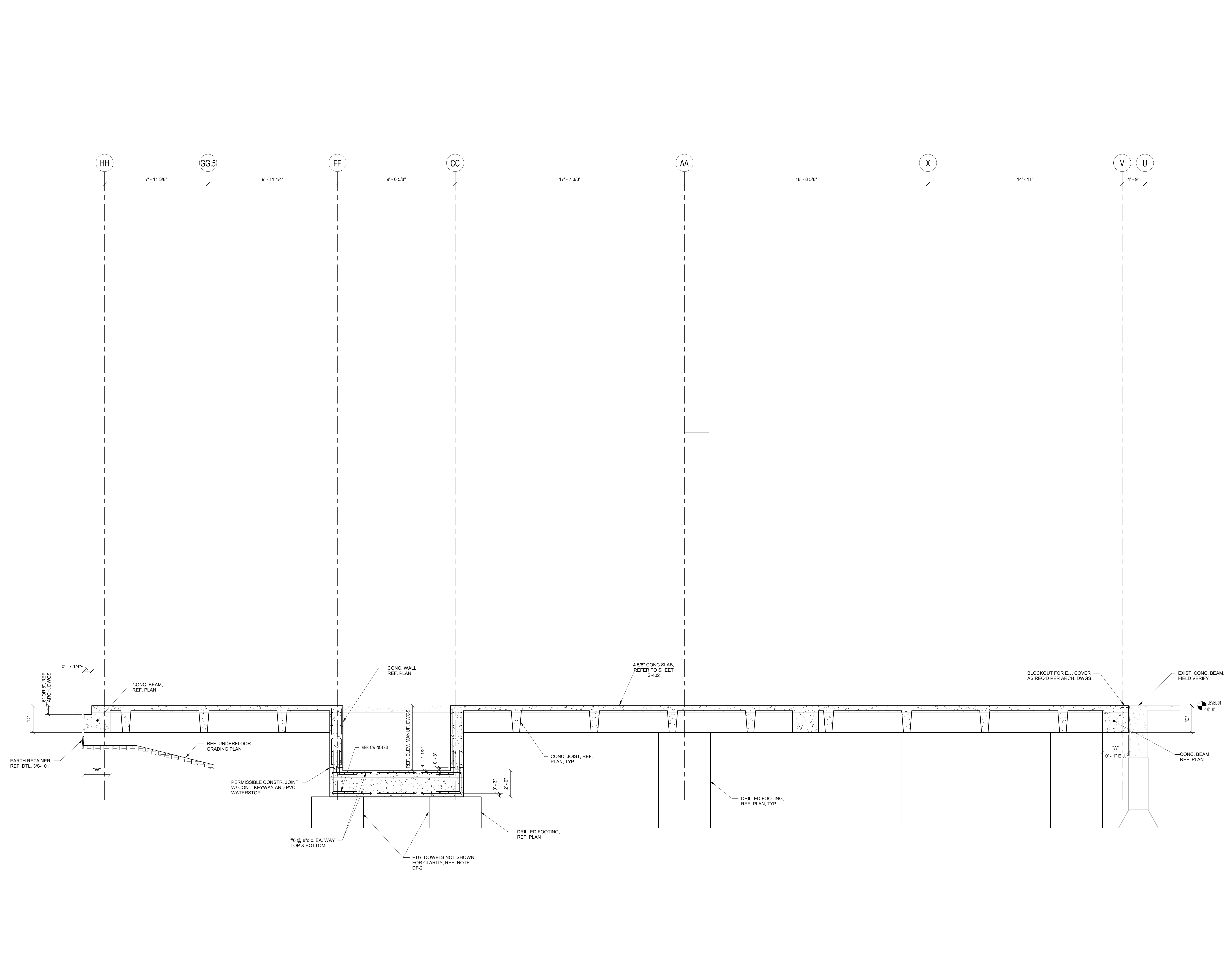
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

SECTION

S-303

ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-38blackbox Addition, Structural R23



1 SECTION
3/8" = 1'-0"

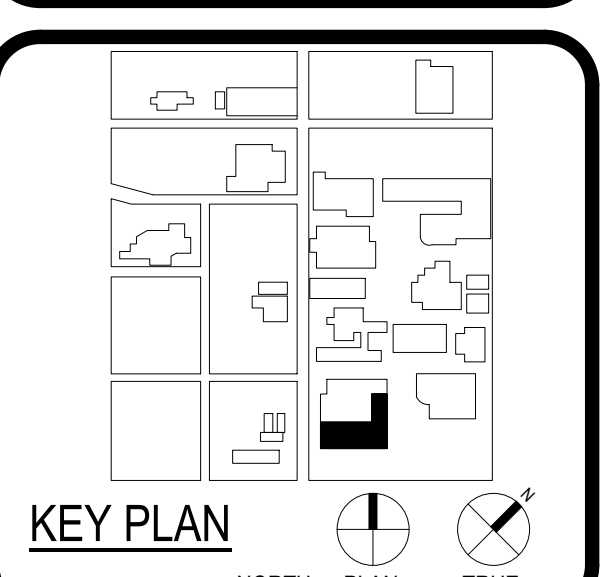
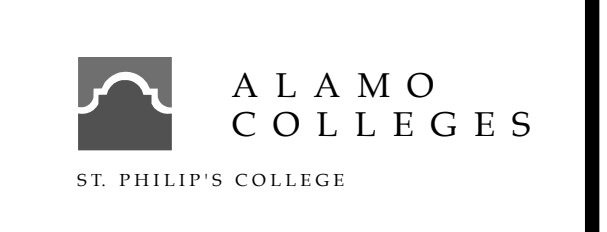


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BLA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	LUNDY & FRANKE ENGINEERING
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
MECHANICAL ENGINEER	MECHANICAL ENGINEERS
ELECTRICAL ENGINEER	ELECTRICAL ENGINEERS
PLUMBING ENGINEER	PLUMBING ENGINEERS
STRUCTURAL ENGINEER	STRUCTURAL ENGINEERS
CIVIL ENGINEER	CIVIL ENGINEERS
ENVIRONMENTAL ENGINEER	ENVIRONMENTAL ENGINEERS
GEOTECHNICAL ENGINEER	GEOTECHNICAL ENGINEERS
HAZARDOUS WASTE ENGINEER	HAZARDOUS WASTE ENGINEERS
INDUSTRIAL HYGIENE ENGINEER	INDUSTRIAL HYGIENE ENGINEERS
INTEGRATED ENVIRONMENTAL ENGINEER	INTEGRATED ENVIRONMENTAL ENGINEERS
LABORATORY	LABORATORY
MEASUREMENT	MEASUREMENT
PROJECT	PROJECT
REVISION	REVISION
SCALE	SCALE
TITLE	TITLE
DATE	DATE
DRAWN BY	DRAWN BY
CHECKED BY	CHECKED BY
DATE	DATE



WFAC Black Box Addition PKG 1

1801 Marlin Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

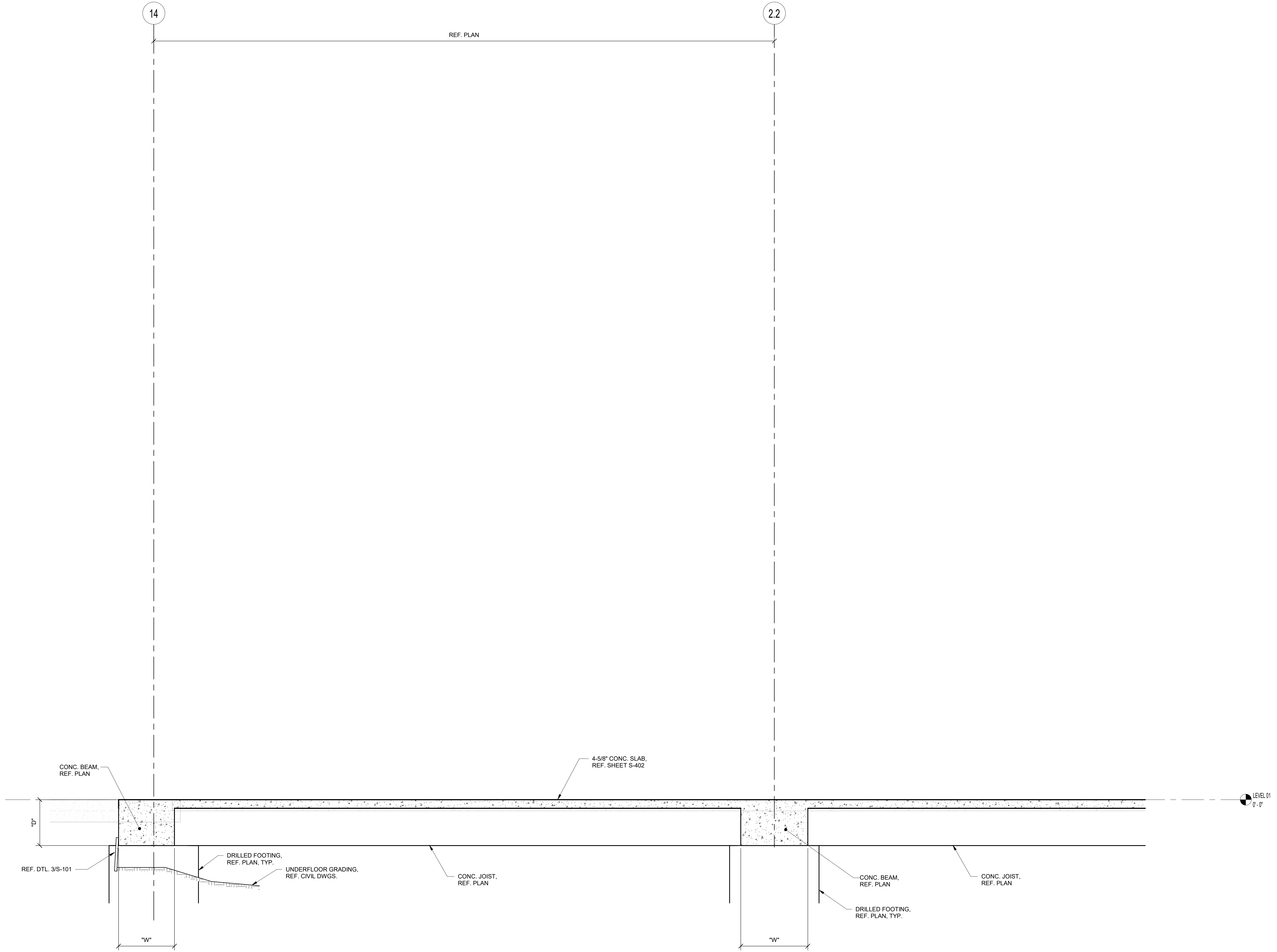
BUILDING NUMBER **AB**

SECTION

S-304

ISSUE FOR CONSTRUCTION

0'
1'



1 SECTION
1/2" = 1'-0"

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-Blackbox Addition - Structural R23

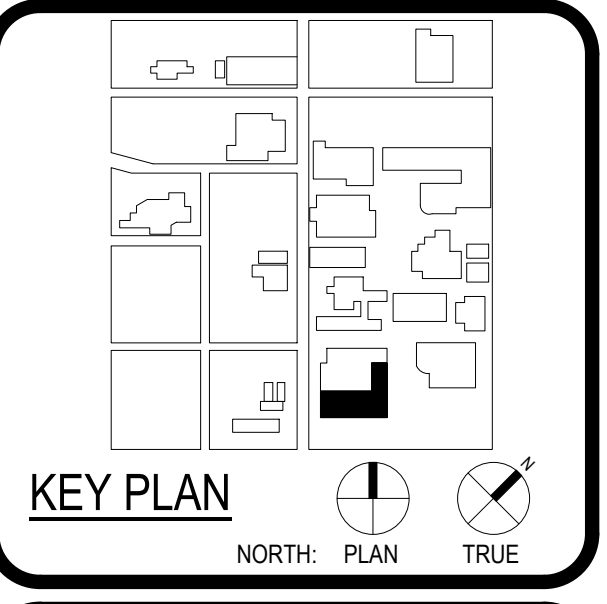


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	ALAMO COLLEGES
ROSE AND DESIGN	ALAMO COLLEGES
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEE	LUNDY & FRANKE ENGINEERING
MEP	LUNDY & FRANKE ENGINEERING
PROVISION	LUNDY & FRANKE ENGINEERING
BEAM PROFESSIONALS	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING
TELEPHONE	LUNDY & FRANKE ENGINEERING
FAX	LUNDY & FRANKE ENGINEERING
TX FIRM REG. #3388	



WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
San Antonio, TX, 78203
ISSUE FOR CONSTRUCTION



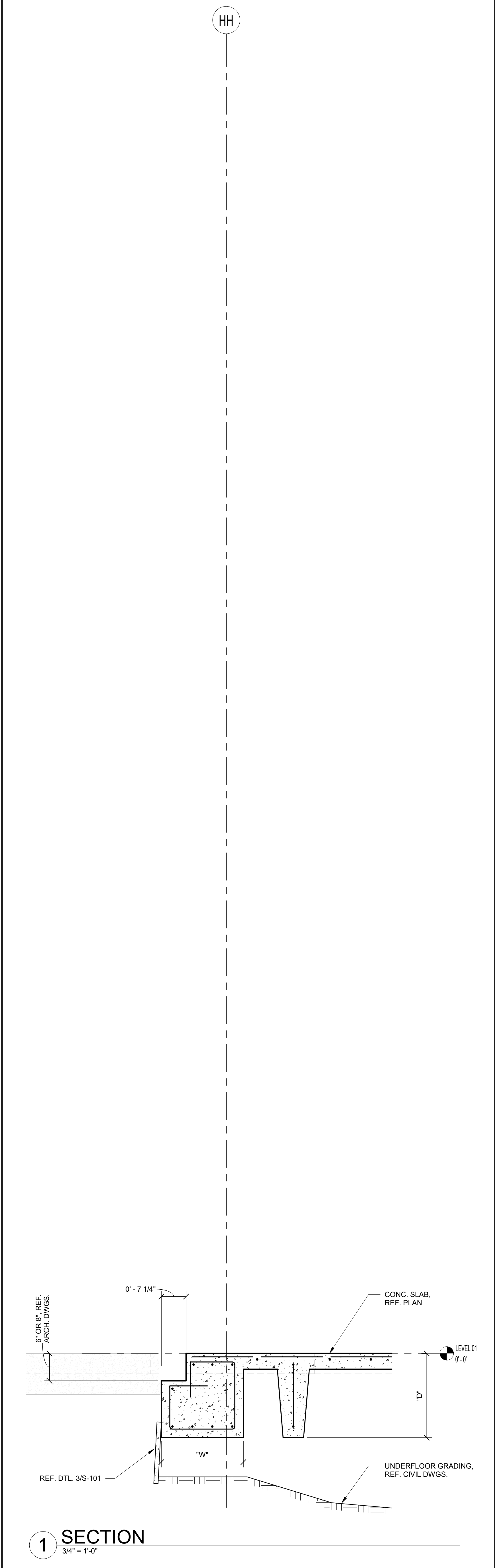
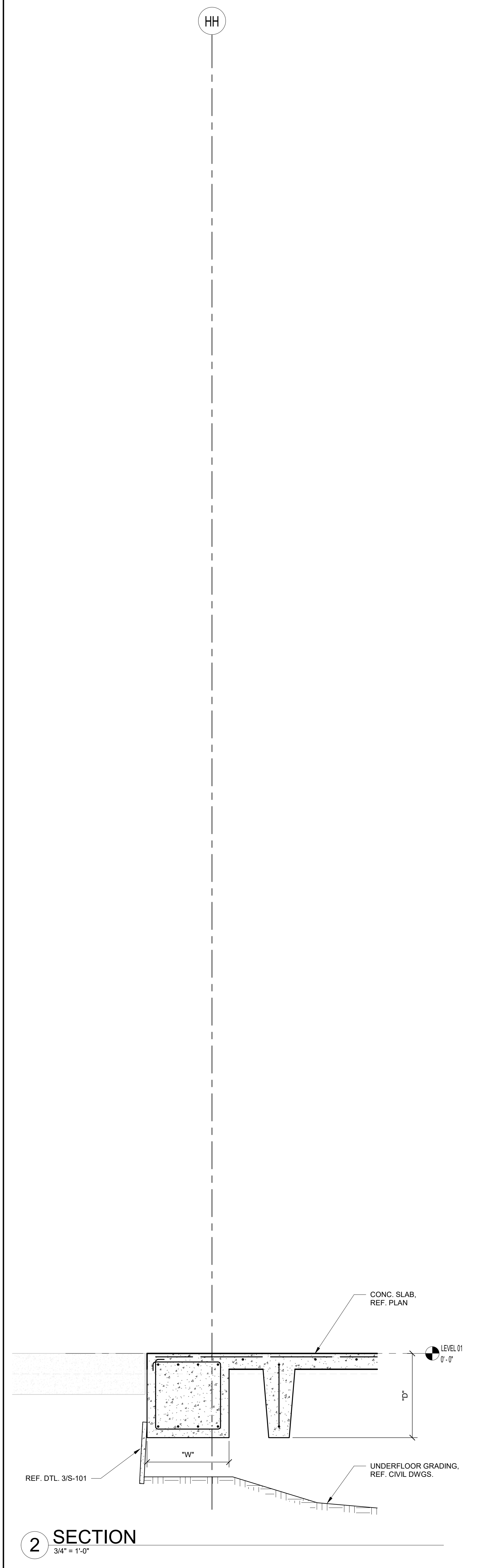
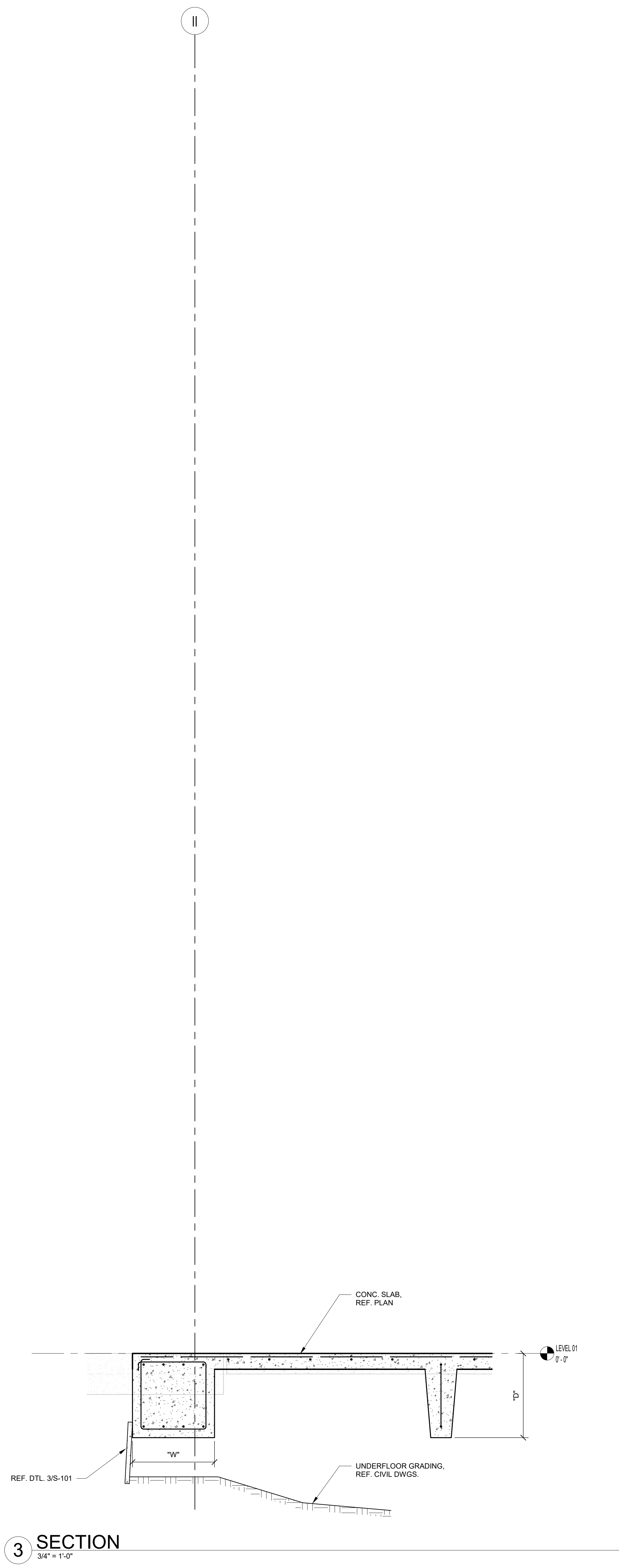
CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

S-306

ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-Blackbox Addition Structural R23

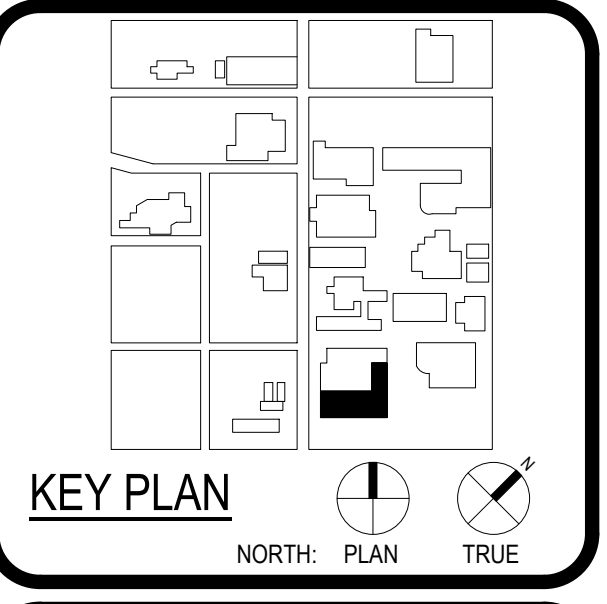


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-4123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
DESIGNER	TRAVIS BAKER
LANDSCAPE	TRAVIS BAKER
ROOF AND DRIP	TRAVIS BAKER
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	TRAVIS BAKER
PROVISIONS	TRAVIS BAKER
MECHANICAL	TRAVIS BAKER
ELECTRICAL	TRAVIS BAKER



WFAC Black Box Addition PKG 1

1801 Main, Luther King Dr.,
San Antonio, TX, 78203
ISSUE FOR CONSTRUCTION

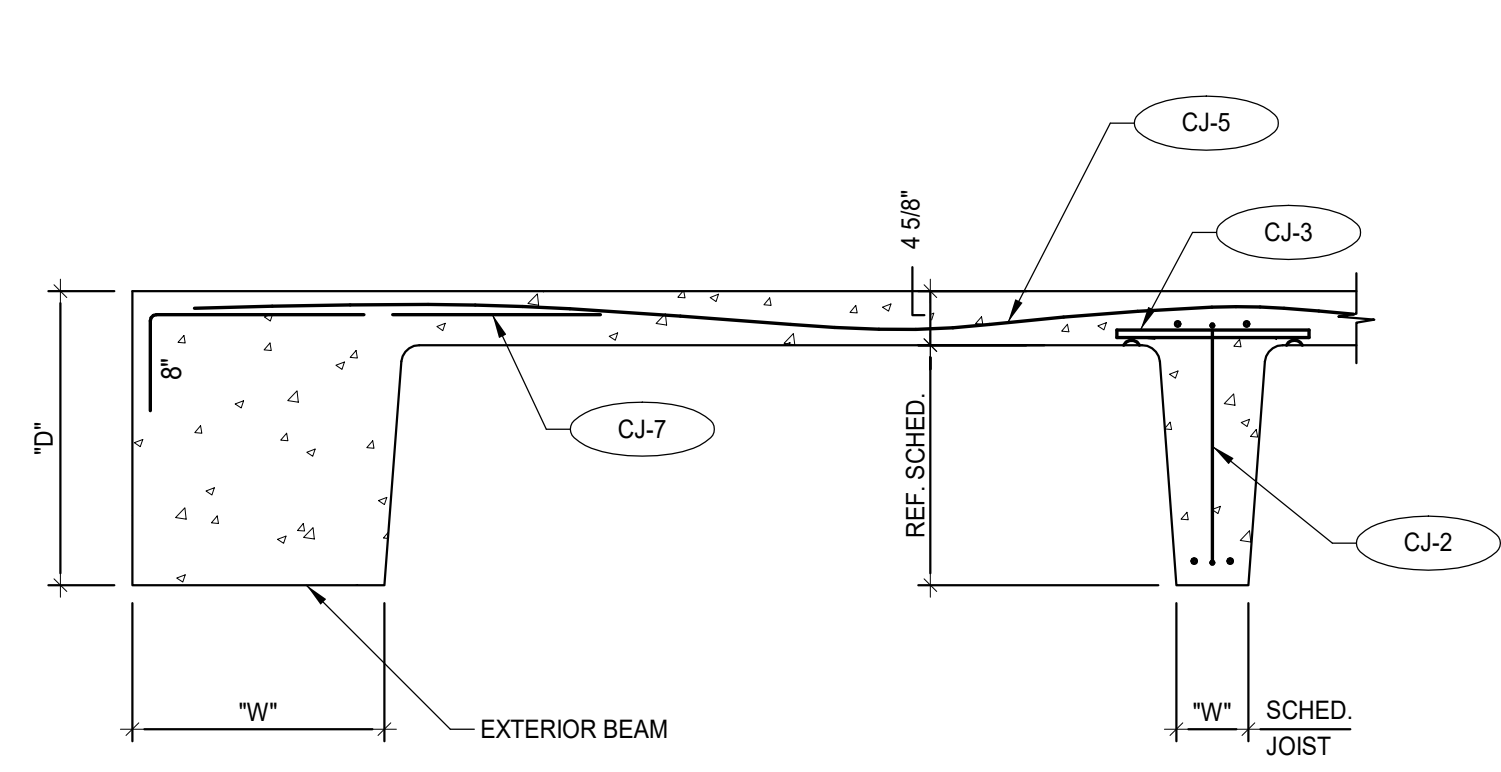


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

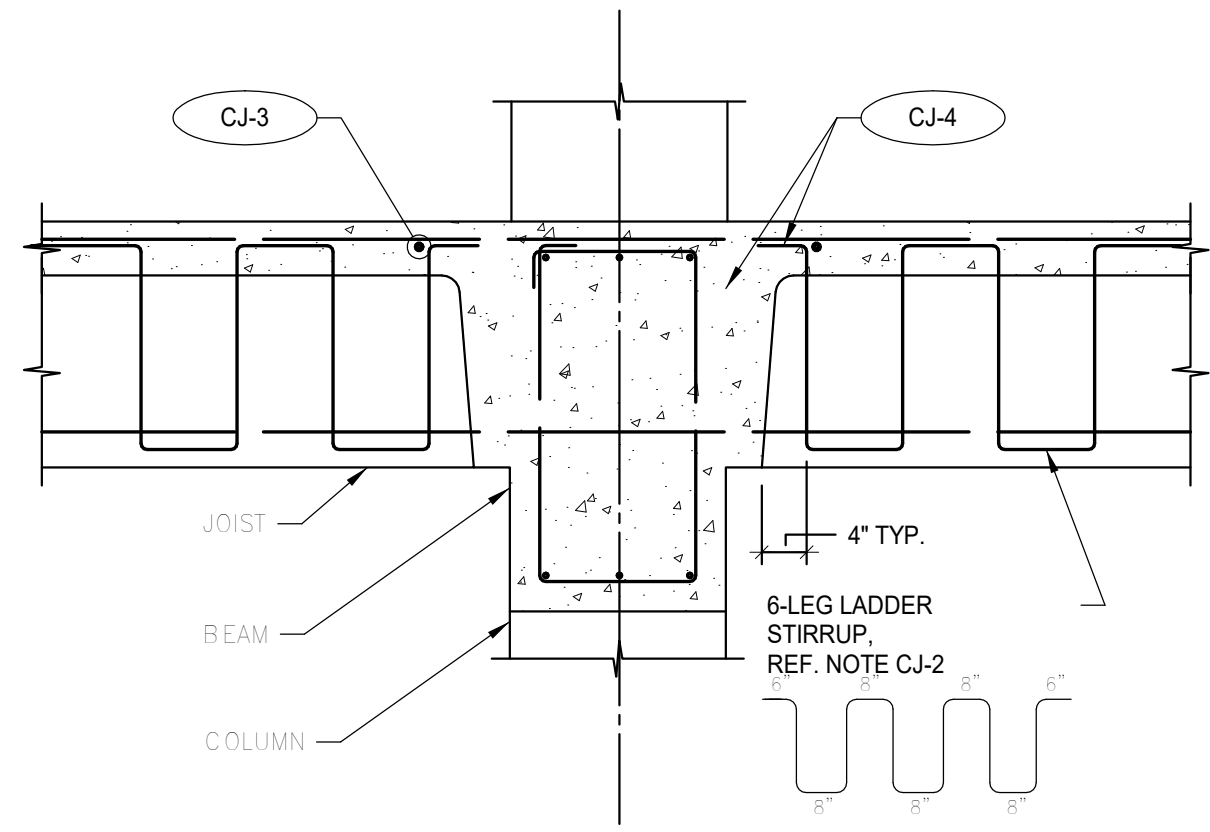
SECTIONS & DETAILS

S-309

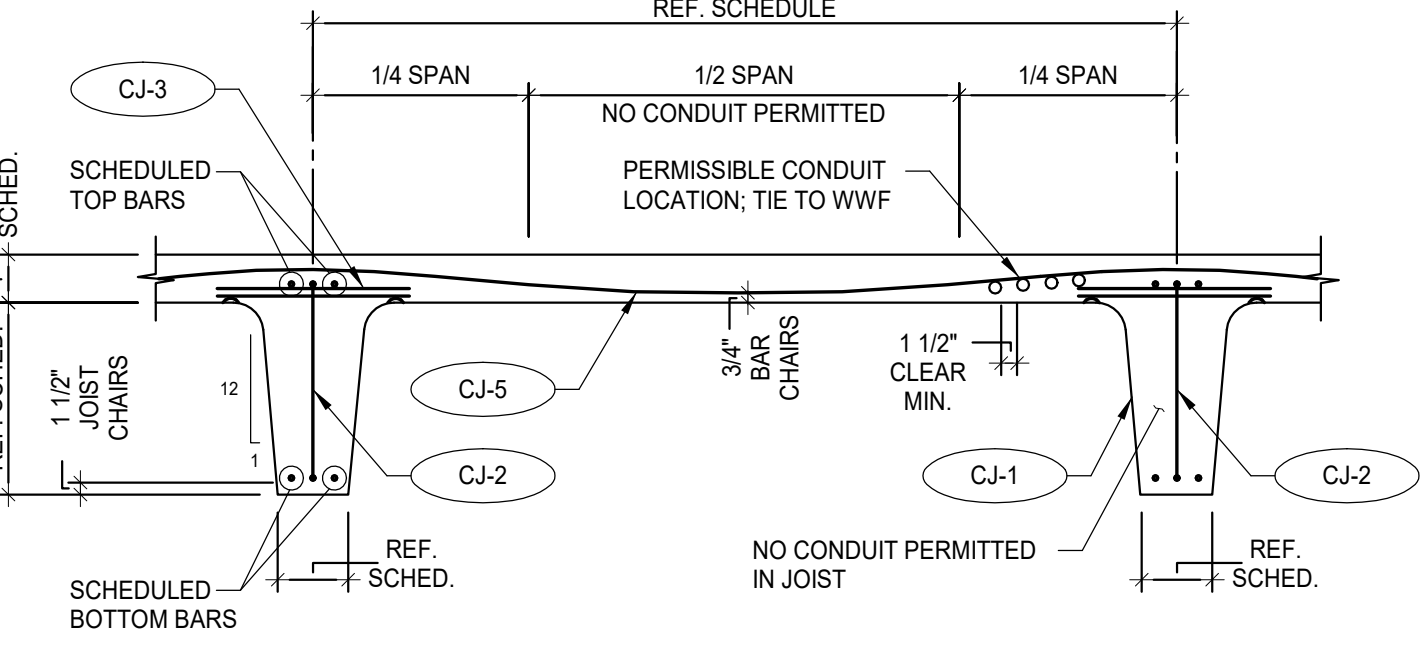
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4	10	11" O.C.	
J2	6	20		6'-0"	1-#8	T3	1-#8	B3	-	-	-	#4	10	11" O.C.	
J3	6	20		6'-0"	1-#6	T1	1-#6	B1	-	-	-	#4	8	11" O.C.	



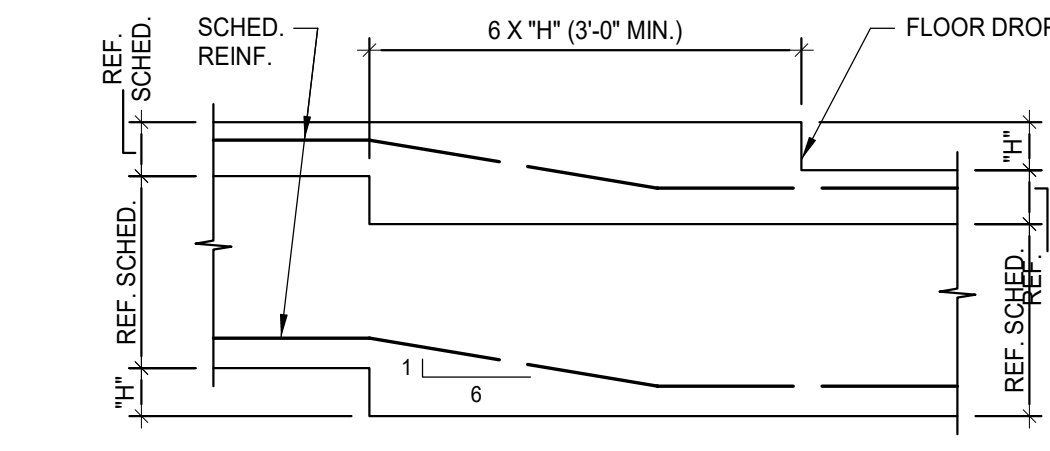
5 DETAIL TYP. SECT. @ REIN. BM. SCALE: 3/4" = 1'-0"



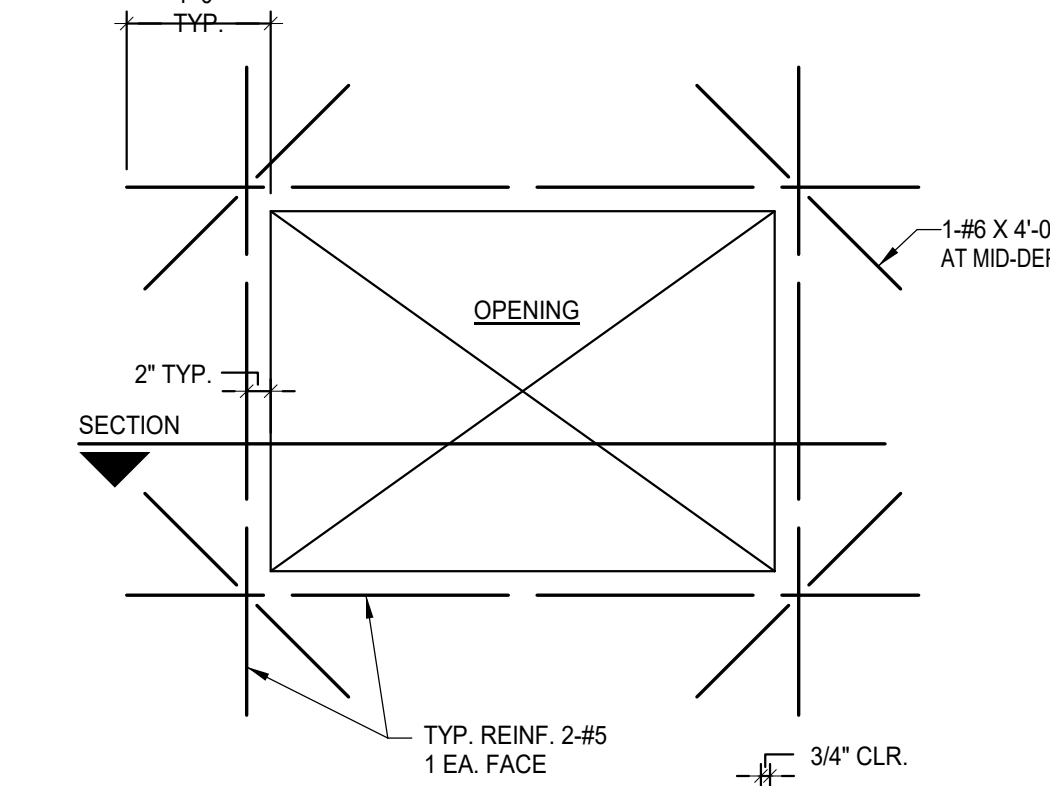
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



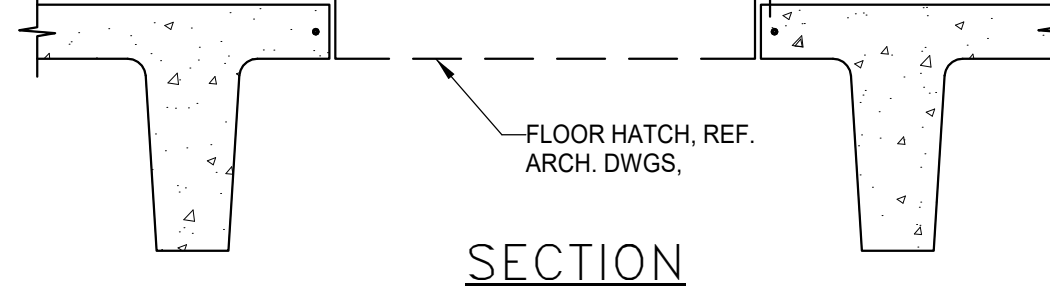
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



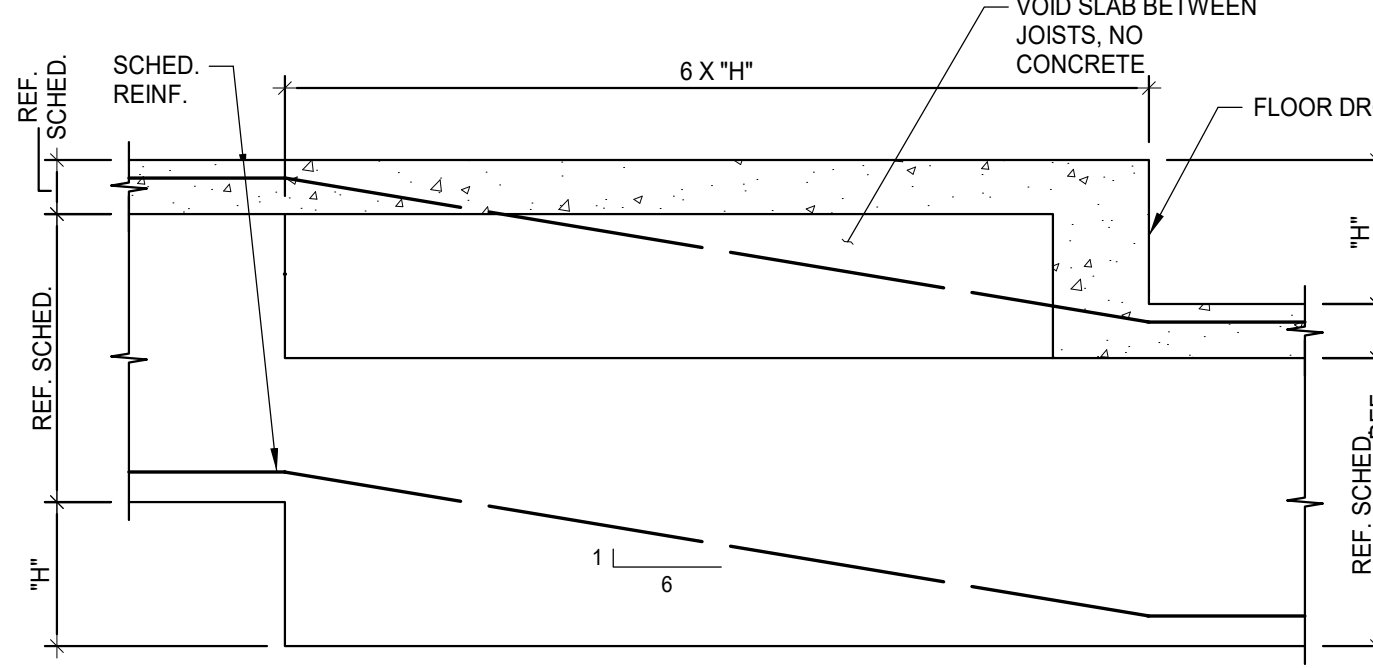
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



3 DETAIL TYP. SLAB SECT. @ FLR. DROP SCALE: 3/4" = 1'-0"



4 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"

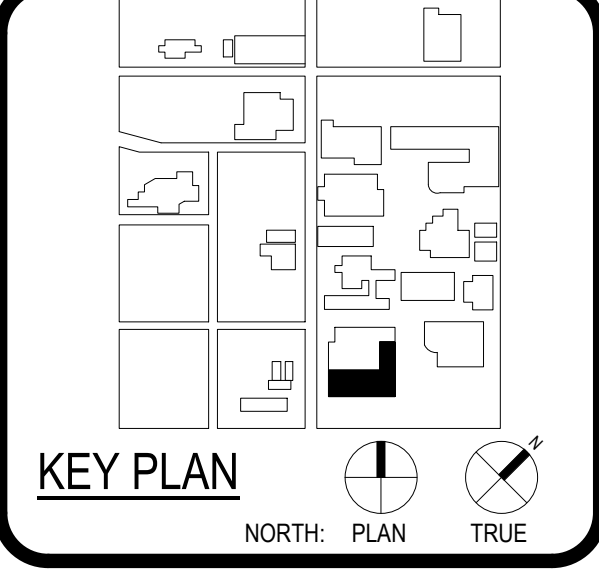
- CONCRETE JOIST NOTES:**
- CJ-1 STEEL PAN-JOIST FORMS SHALL BE SPACED SO THAT JOISTS IN ADJACENT SPANS ARE IN EXACT ALIGNMENT UNLESS SHOWN OTHERWISE. NARROWER WIDTH FORMS SHALL BE COORDINATED WITH BASIC SPACING WHERE MAKE-UPS ARE REQUIRED.
 - CJ-2 WHERE STIRRUPS ARE SCHEDULED, (1) 6-LEG LADDER STIRRUP ASSEMBLY WITH VERTICAL LEGS AT 11" O.C. IS THE MINIMUM. IF SCHEDULE CALLS FOR MORE THAN 6 LEGS, USE A COMBINATION OF LADDER STIRRUP ASSEMBLIES TO PROVIDE REQUIRED NUMBER OF LEGS AT SPACING SCHEDULED.
 - CJ-3 JOIST TOP BARS SHALL BE SUPPORTED ON 1" DIA. X 1'-0" SUPPORT BARS PLACED ON 3/4" BAR CHAIRS ACROSS PAN FORMS AT 4'-0" O.C. TIED TO STIRRUPS BEGINNING AT FIRST LEG.
 - CJ-4 BEAM STEEL SHALL HAVE CLEARANCE OF 1-1/2" TO STIRRUPS AT BOTTOM AND SIDES BUT 2-1/2" AT TOP. JOIST STEEL SHALL HAVE CLEARANCE OF 1-1/2". THEREFORE, REINFORCEMENT SHALL BE PLACED IN THE FOLLOWING SEQUENCE:
 1. PLACE ALL BEAM BARS.
 2. PLACE BOTTOM JOIST BARS.
 3. PLACE SUPPORT BARS (NOTE CJ-3).
 4. PLACE TOP JOIST BARS.
 5. PLACE EXTRA SLAB BARS (NOTE CJ-7).
 6. PLACE WELDED WIRE FABRIC.
 - CJ-5 REINFORCE SLAB WITH 4x4-W3.5x3.5 WELDED WIRE FABRIC, LAPPED 1-1/2 MESHES AT SPLICES. DRAPE OVER TOP JOIST BARS AND TIE DOWN SECURELY IN BOTTOM OF SLAB MIDWAY BETWEEN JOISTS. 3/4" OFF BOTTOM WITH BAR CHAIRS AND TIED TO FROM AT 24" O.C. MESH SHALL EXTEND OVER THE ENTIRE WIDTH OF BEAMS.
 - CJ-6 WHERE FLOOR DROPS (DEPRESSIONS) OCCUR, ADJUST PAN FORMS SO THAT SLAB THICKNESS IS MAINTAINED AS SHOWN IN DETAILS.
 - CJ-7 WHERE JOIST RUN PARALLEL TO BEAMS OR WALLS, PROVIDE #3 DOWELS AT 2'-0" O.C. AT EDGE BEAMS ONLY. (SEE DETAIL).
 - CJ-8 UNLESS SPECIFICALLY SHOWN ON FRAMING PLANS, JOISTS SHALL NOT BE INTERRUPTED OR REDUCED IN CROSS SECTIONAL AREAS WITHOUT ENGINEER'S APPROVAL.
 - CJ-9 IF VERTICAL MECHANICAL SLEEVE PROJECTS INTO A JOIST BY MORE THAN 1-1/2", WIDEN JOIST BY USING NEXT SMALLER PAN WIDTH FOR A DISTANCE OF 4'-0" BOTH SIDES OF SLEEVE AND FIELD DRAPE BARS AROUND SLEEVES (NO TORCHING).
 - CJ-10 CONDUITS IN 4-1/2" SLABS SHALL NOT BE LARGER THAN 1" DIAMETER, WHERE CONDUIT IS PARALLEL (OR NEARLY PARALLEL) TO JOIST, DO NOT LOCATE IN CENTER THIRD OF SLAB SPAN.
 - CJ-11 PROVIDE 6" WIDE BRIDGING JOIST WHERE INDICATED "B.I." ON PLAN. REINFORCE WITH 1-#6 CONTINUOUS TOP AND BOTTOM AND ANCHOR INTO TERMINAL BEAMS WITH #6 X 5'-0" CORNER BAR TOP AND BOTTOM.
 - CJ-12 WHERE PARTITIONS RUNNING PARALLEL TO JOISTS ARE DESIGNATED BY THE SYMBOL ON THE FRAMING PLAN, OR NOTED ON ARCHITECTURAL DRAWINGS, ADD #4 X 6'-0" AT 9" O.C. FOR ENTIRE LENGTH OF JOIST SPAN IN BOTTOM OF SLAB ON 3/4" BAR CHAIRS, RUNNING PERPENDICULAR TO JOISTS FROM JOIST CENTERLINE TO JOIST CENTERLINE.



ARCHITECT SAN ANTONIO
 PBK Architects, Inc.
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ENGINEERING
LUNDY & FRANK
 ENGINEERING
 588 HEIMER ROAD
 SAN ANTONIO, TEXAS 78232
 PH. (210) 979-7900
 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1



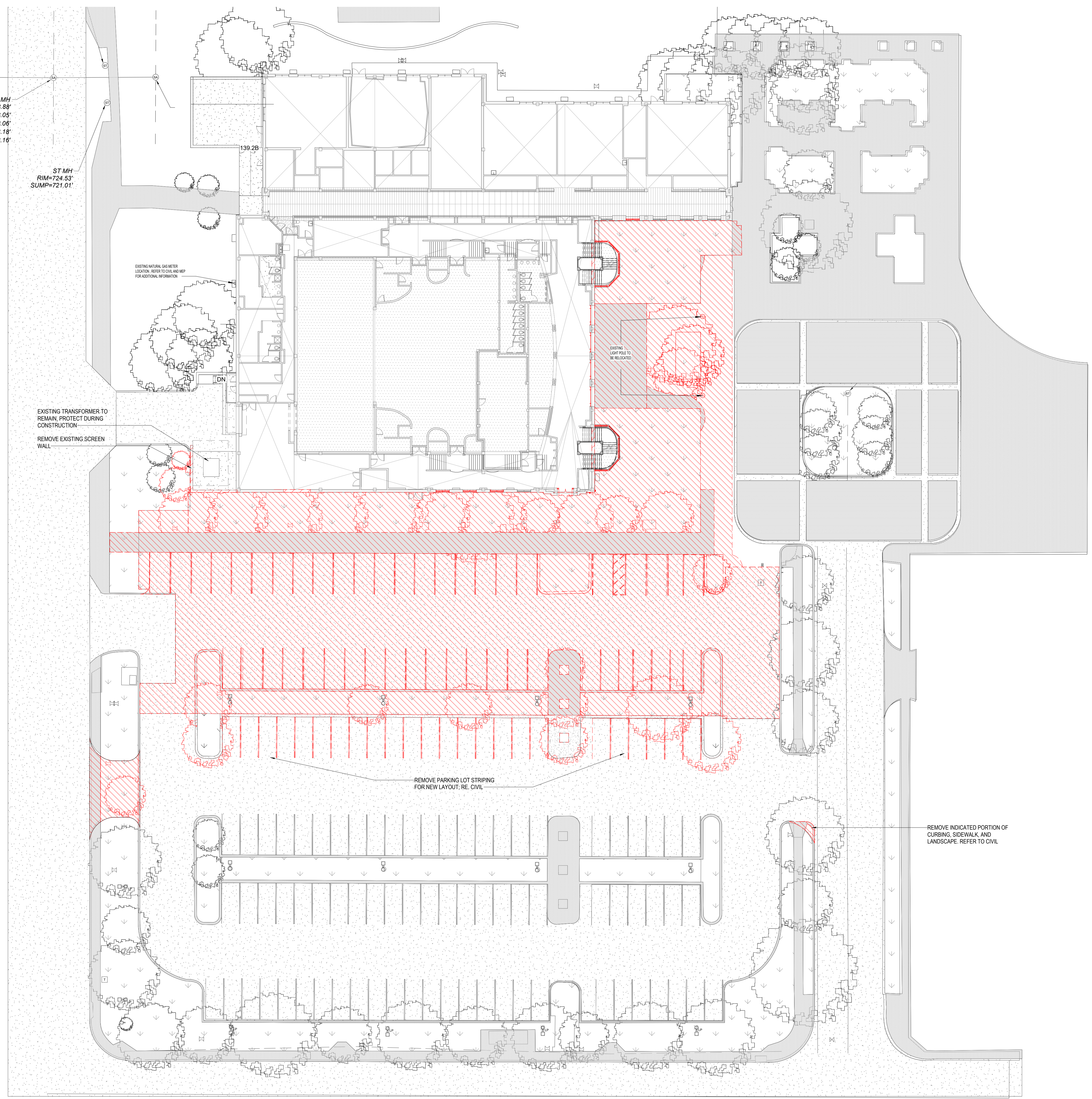
CLIENT Alamo Colleges
 DATE 2024/05/23 PROJECT NUMBER 230462

No.	Description	Date

ISSUE FOR CONSTRUCTION
 BUILDING NUMBER AB

CONC. JOIST SCHED,
 NOTES & DETAILS

ISSUE FOR CONSTRUCTION



GENERAL SITE DEMOLITION NOTES

- DEMOLITION PLANS INDICATE SOME OF THE SCOPE OF WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
- CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
- AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
- CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
- ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
- CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
- PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
- CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
- OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
- NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DESIRED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
- ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.

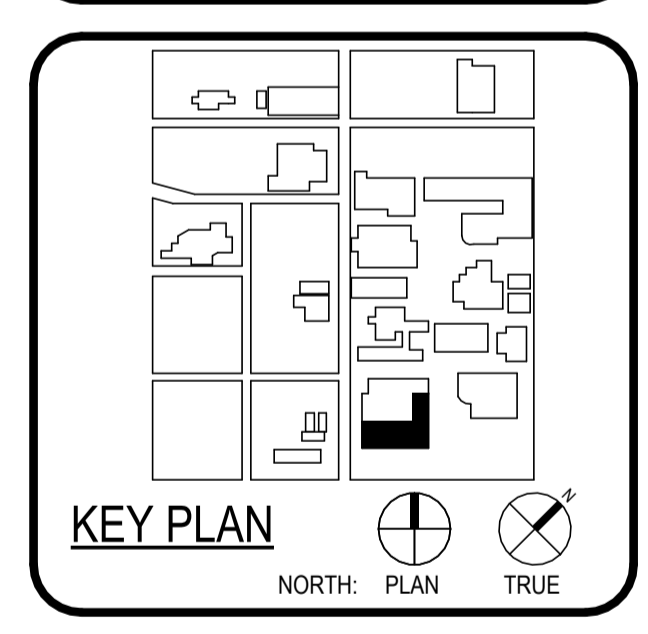


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-820-0578 F TX Firm BR 1608	
ARCHITECT	PBK ARCHITECTS
DESIGNER	TRAVIS BROWN
LANDSCAPE	TRAVIS BROWN
ENGINEER	TRAVIS BROWN
INSPECTOR	TRAVIS BROWN
LANDSCAPE	LUNBY & FRANKS ENGINEERING
MECHANICAL	TRAVIS BROWN
ELECTRICAL	TRAVIS BROWN
PLUMBING	TRAVIS BROWN
MECHANICAL	TRAVIS BROWN
MECHANICAL	TRAVIS BROWN
MECHANICAL	TRAVIS BROWN

WFAC Black Box Addition PKG 1

1801 Main Luther King Dr.,
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION

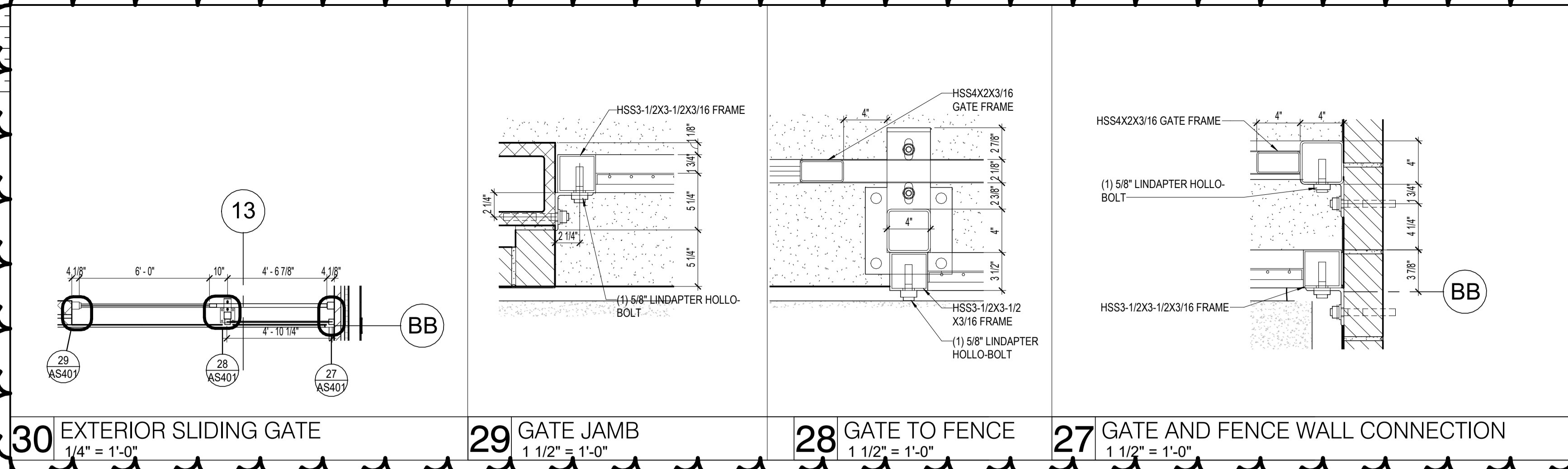


CLIENT		
Alamo Colleges	PROJECT NUMBER	
2024/06/14	230462	
DRAWING HISTORY		
No.	Description	Date

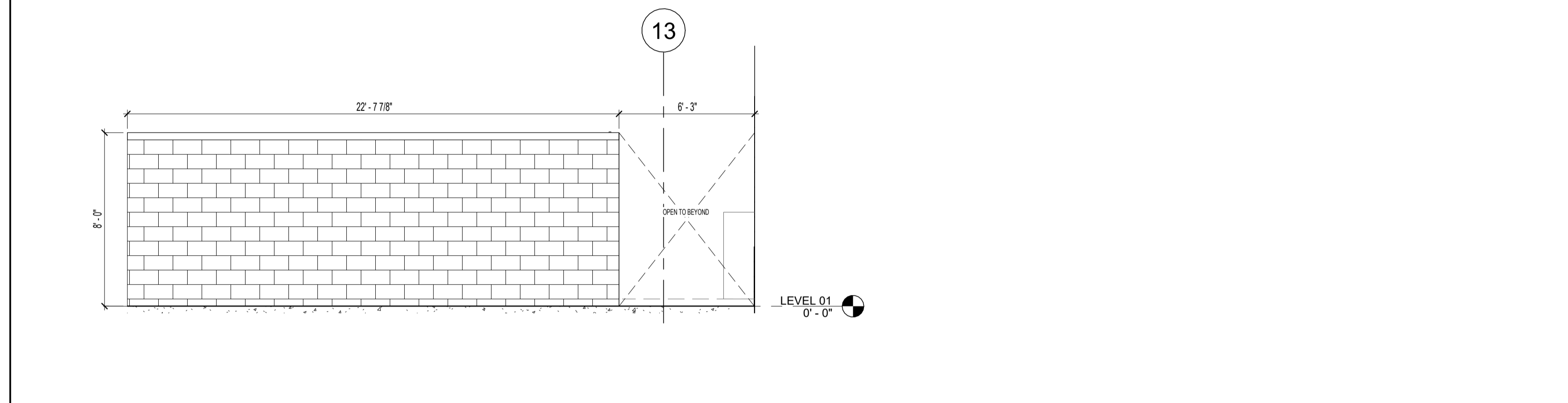
ISSUE FOR CONSTRUCTION

BUILDING NUMBER 1

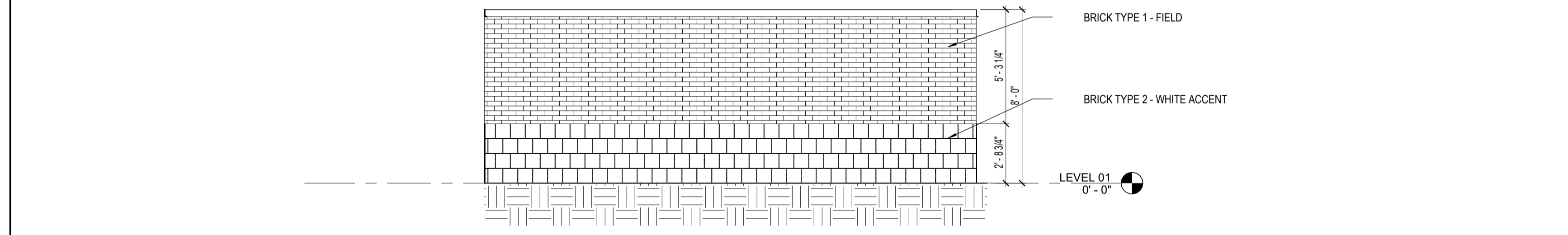
DEMOLITION ARCHITECTURAL SITE PLAN



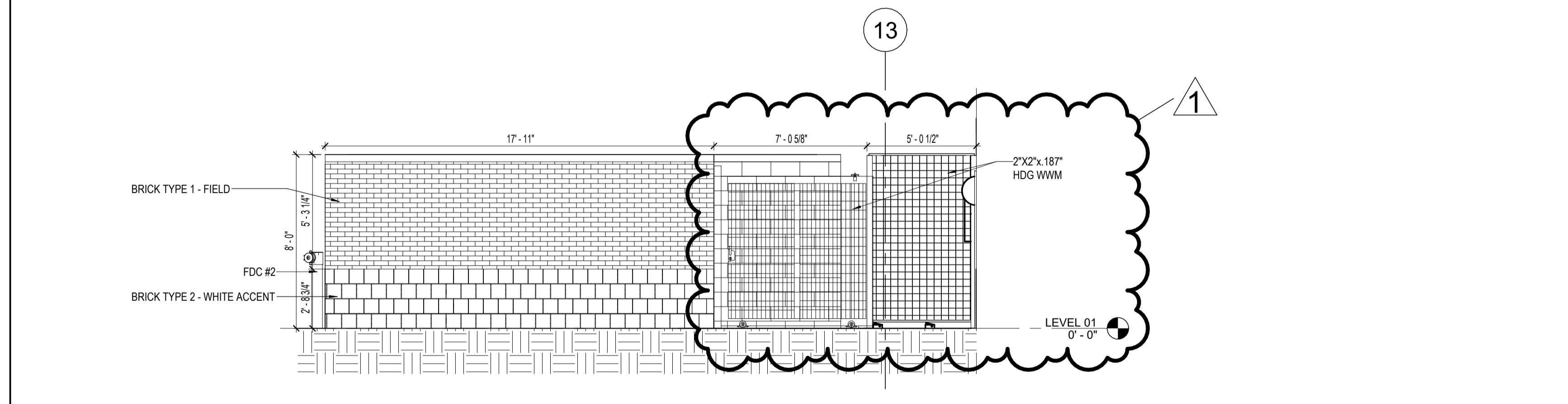
30 EXTERIOR SLIDING GATE 1/4" = 1'-0"
29 GATE JAMB 1 1/2" = 1'-0"
28 GATE TO FENCE 1 1/2" = 1'-0"
27 GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



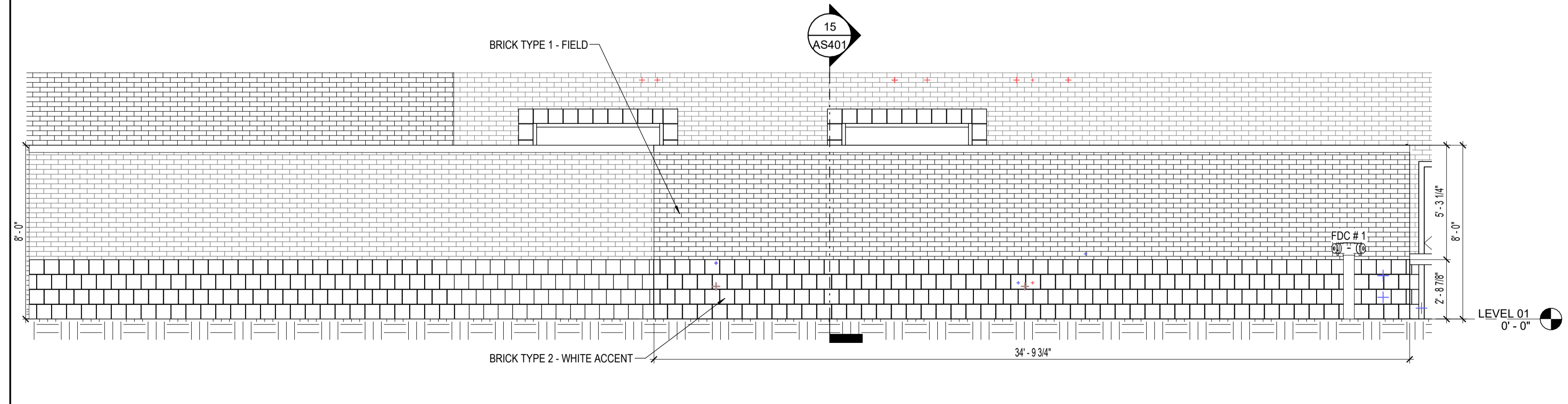
24 NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



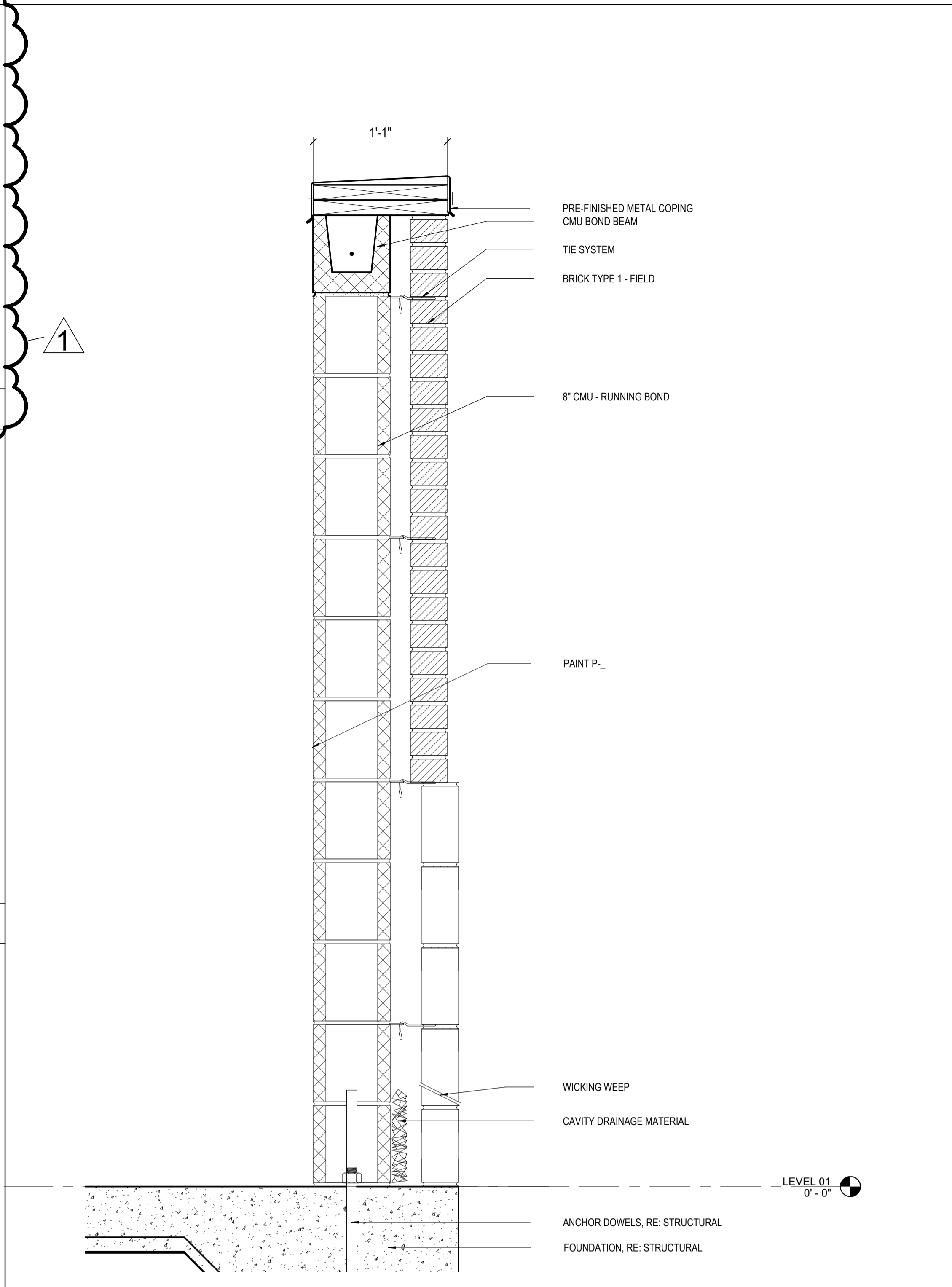
18 EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



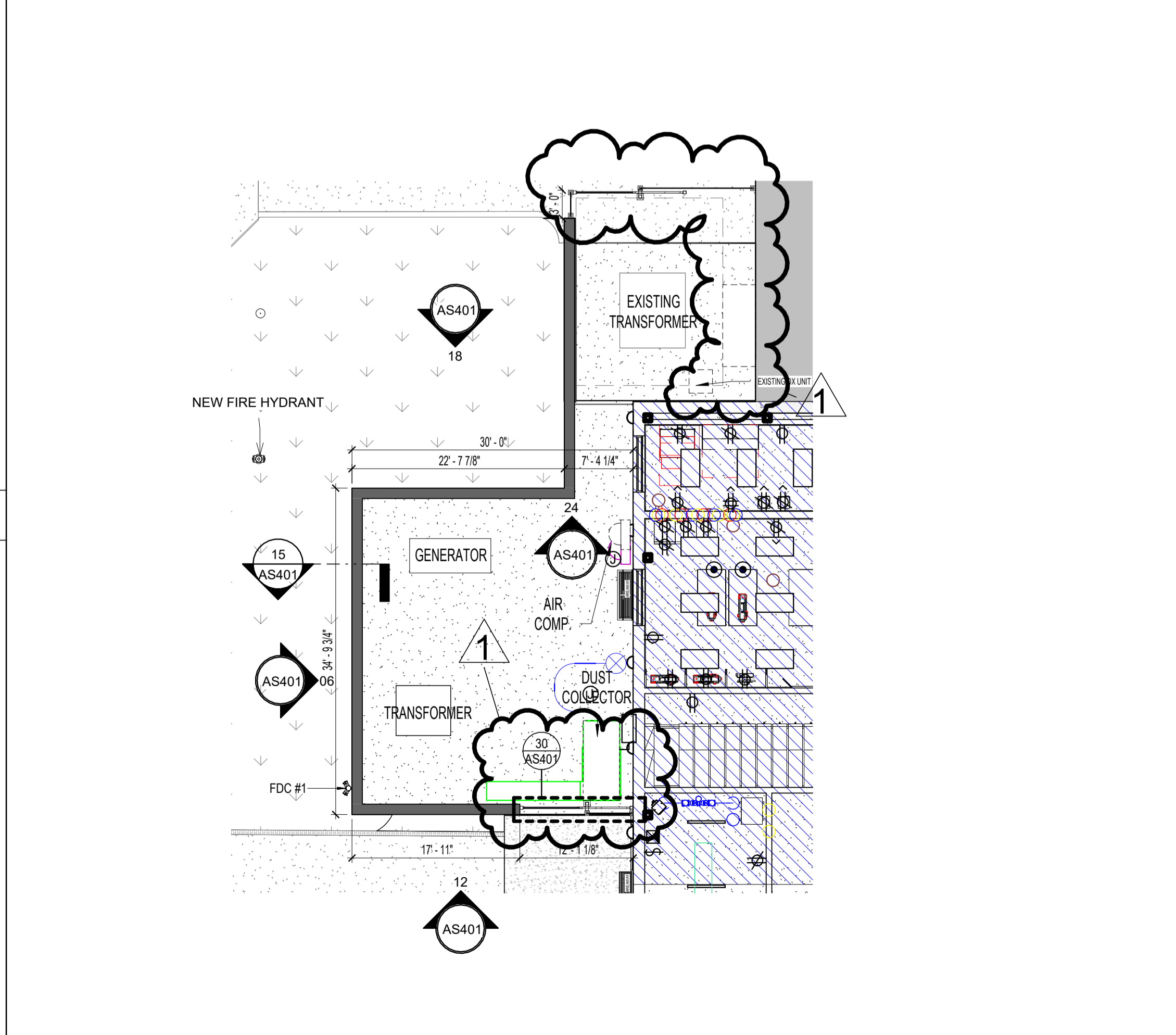
12 EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



06 EQUIPMENT ELEVATION EAST 1/4" = 1'-0"



15 CMU WALL SECTION 1 1/2" = 1'-0"



03 EQUIPMENT ENCLOSURE 3/32" = 1'-0"

GENERAL ARCH SITE PLAN NOTES

- REFER TO CIVIL DOCUMENTS.
- COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND/OR STRUCTURAL DOCUMENTS.
- PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1% MINIMUM, 2% MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
- PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5% FOR A HORIZONTAL DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O.
- REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
- VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
- PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
- PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
- VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
04 05 00 CDP	CAVITY DRAINAGE MATERIAL
04 05 00 TIE	TIE SYSTEM
04 05 00 WWV	WICKING WEEP
04 20 00 BK1	BRICK TYPE 1 - FIELD
04 20 00 BK2	BRICK TYPE 2 - WHITE ACCENT
04 20 00 CBB	CMU BOND BEAM
04 20 00 CUB (R)	8" CMU - RUNNING BOND

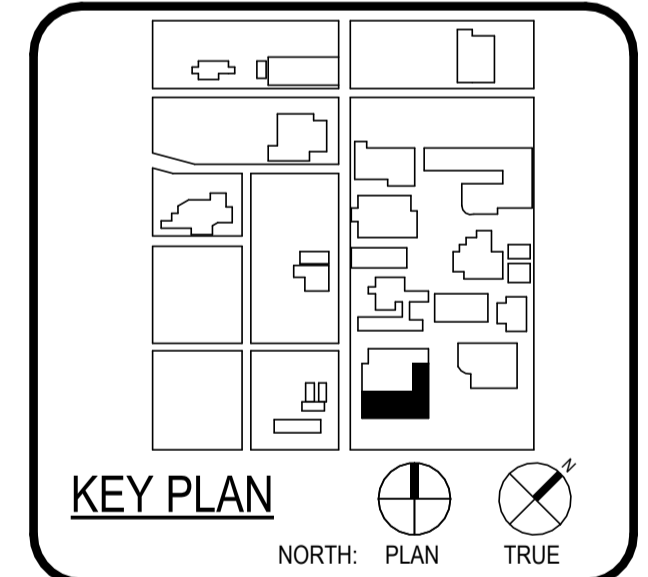
ARCH SITE PLAN LEGEND

- EXISTING BUILDING
- NOT IN SCOPE
- NEW BUILDING / ADDITION
- GRASS
- SIDEWALK
- TOP CAST CONCRETE, RE. LANDSCAPE
- SALT FINISH CONCRETE, RE. LANDSCAPE



ARCHITECT: SAN ANTONIO
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 P
210-820-0578 F
TX Firm BR 1608
PBK.com

WFAC Black Box Addition PKG 1



CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
1	AS1 #1 - CITY & OWNER COMMENTS	6-14-2024

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

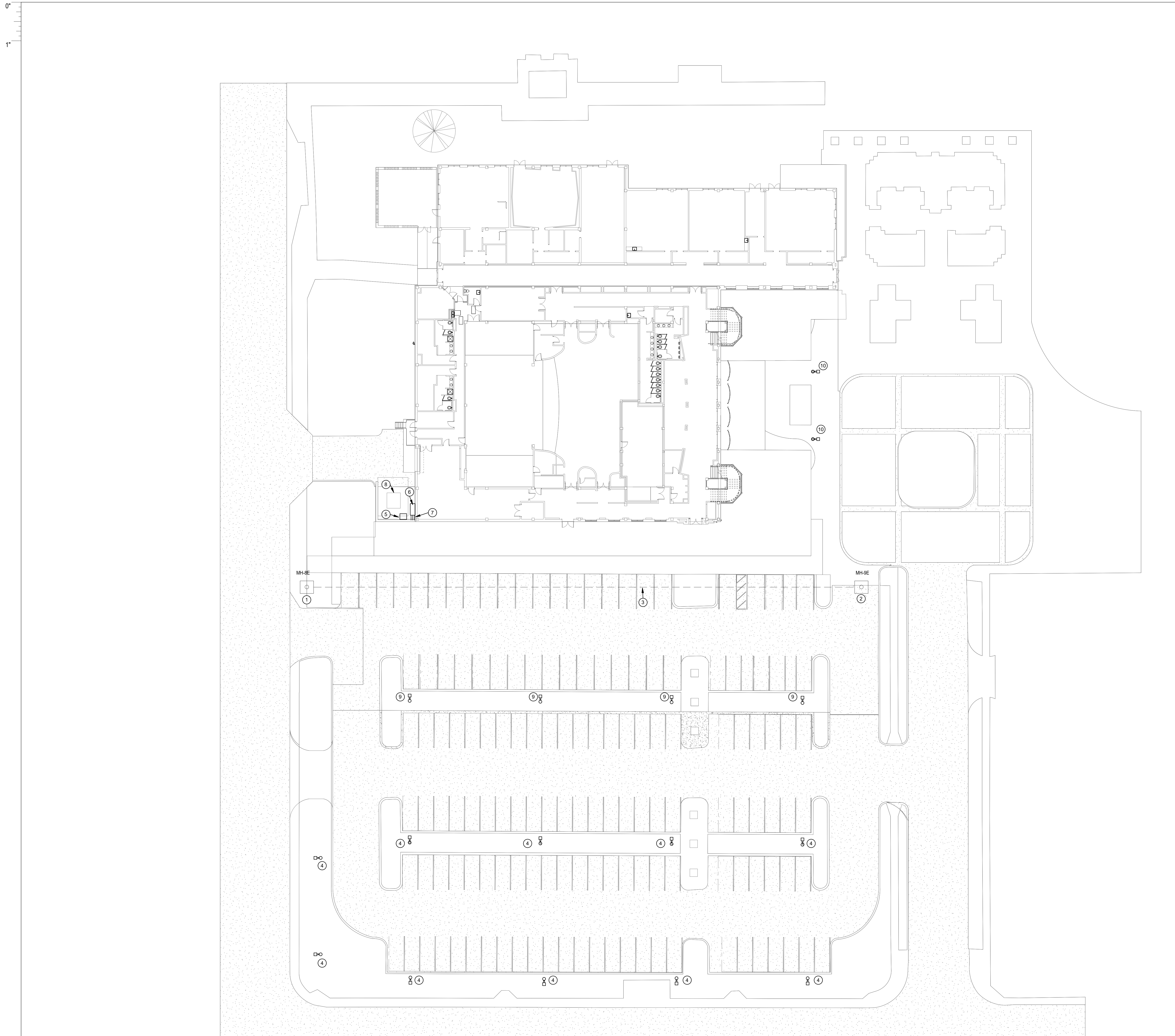
ARCHITECTURAL ENLARGED SITE PLANS

AS401

ISSUE FOR CONSTRUCTION

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- DEMO SITE PLAN GENERAL NOTES:**
- COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

- SITE PLAN KEYED NOTES:**
- EXISTING ELECTRICAL MANHOLE.
 - EXISTING ELECTRICAL MANHOLE SHALL BE DEMOLISHED AND RELOCATED.
 - EXISTING UNDERGROUND ELECTRICAL DUGBANK WITH 4 EXISTING CONDUITS TO BE REROUTED FOR NEW BLACK BOX EXPANSION.
 - CONTRACTOR TO VERIFY NEW CONSTRUCTIONS DOES NOT OVERLAP EXISTING PARKING LOT LIGHTING. IF NEW CONSTRUCTIONS OVERLAPS EXISTING FEEDER FOR PARKING LOT LIGHTING, EXISTING FEEDERS FOR SITE LIGHTING SHALL BE RELOCATED.
 - EXISTING CONDENSING UNIT SHALL BE RELOCATED. DISCONNECT AND CONDUCTORS SHALL BE REROUTED. UTILIZE EXISTING CIRCUIT. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS.
 - EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
 - EXISTING CONDUITS FROM DP-6 TO WATSON'S FINE ARTS BUILDING SHALL BE RELOCATED TO ACCOMMODATE NEW BUILDING. CONTRACTOR SHALL VERIFY PATH WAY AND RELOCATED CONDUITS AND CONDUCTORS TO NEW AVAILABLE LOCATION WITHOUT IMPEDEING ANY OTHER SERVICES.
 - EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
 - EXISTING PARKING LOT FIXTURES SHALL BE DEMOLISHED. CONTRACTOR SHALL PRESERVE CIRCUIT RUN FOR ANY EXISTING FIXTURES REMAINING OR TIED TO DEMOLISHED FIXTURES.
 - EXISTING PEDESTRIAN LOT FIXTURES SHALL BE RELOCATED. CONTRACTOR SHALL PRESERVE CIRCUIT RUN FOR ANY EXISTING FIXTURES REMAINING OR TIED TO DEMOLISHED FIXTURES.

1 DEMO SITE POWER PLAN
SCALE: 1" = 20'-0"



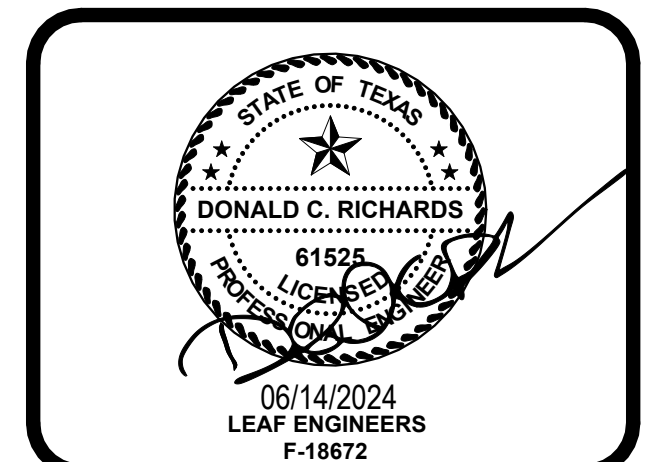
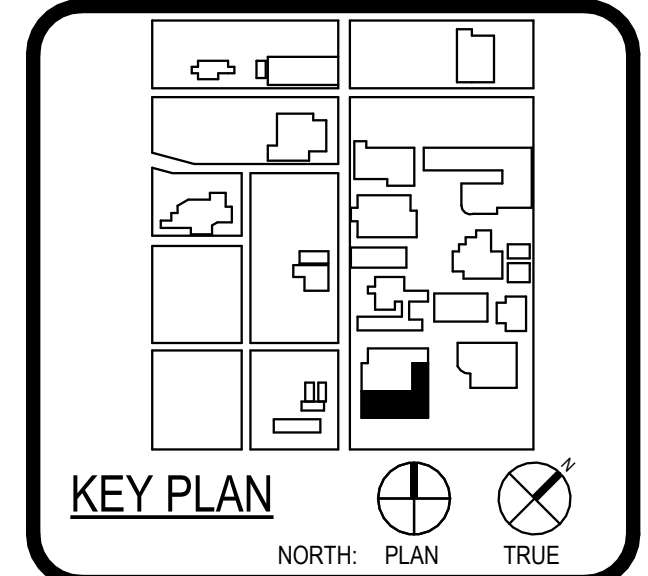
ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-223-1100
ENGINEER	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
LANDSCAPE	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
MECHANICAL	LUNY & FRANK ENGINEERING 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-223-1100
ELECTRICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
PLUMBING	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
MECHANICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203



WFAC Black Box Addition PKG 1

1801 Main Luther King Dr.,
San Antonio, TX 78203

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Alamo Colleges	PROJECT NUMBER	
DATE	230462	
06/14/2024		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

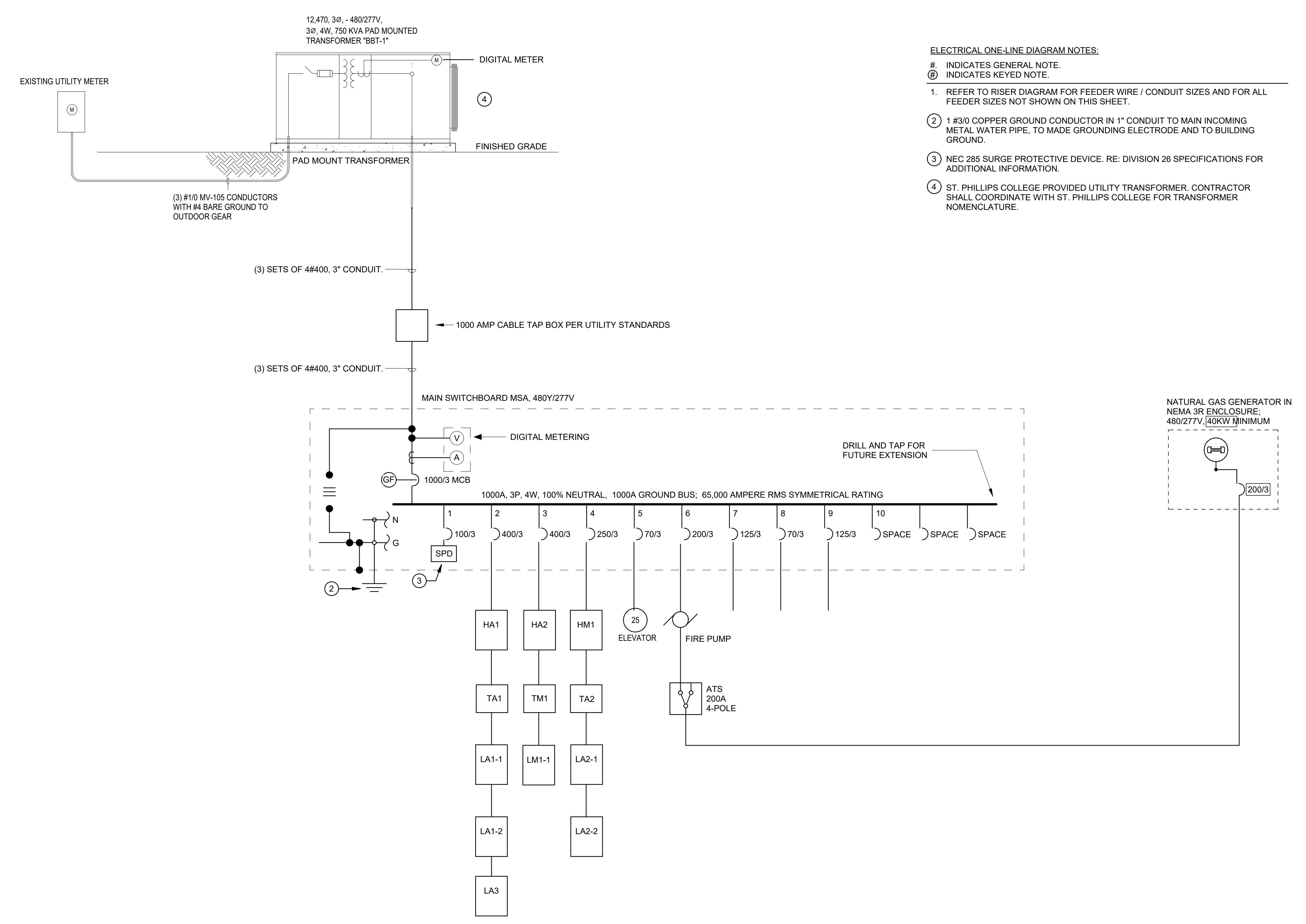
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DEMO SITE POWER PLAN

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- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
 - ① INDICATES KEYED NOTE.
 - 1. REFER TO RISER DIAGRAM FOR FEEDER WIRE / CONDUIT SIZES AND FOR ALL FEEDER SIZES NOT SHOWN ON THIS SHEET.
 - 2. 1 #3/0 COPPER GROUND CONDUCTOR IN 1" CONDUIT TO MAIN INCOMING METAL WATER PIPE, TO MAKE GROUNDING ELECTRODE AND TO BUILDING GROUND.
 - 3. NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 4. ST. PHILLIPS COLLEGE PROVIDED UTILITY TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH ST. PHILLIPS COLLEGE FOR TRANSFORMER NOMENCLATURE.

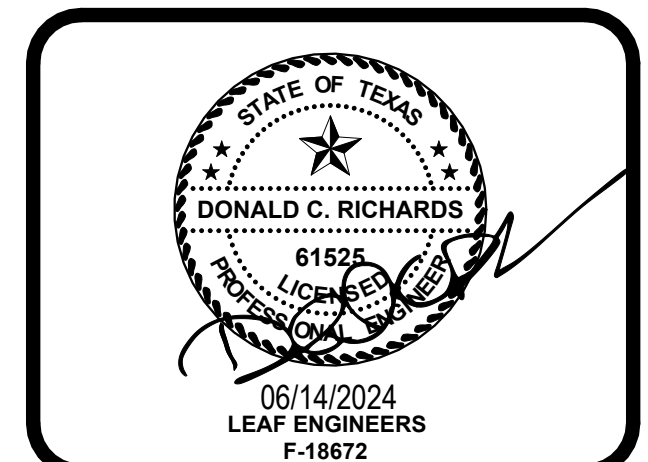
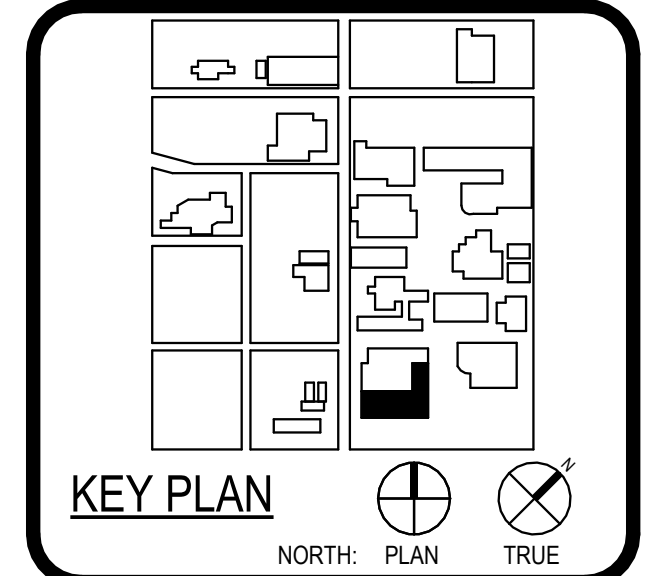


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	B&A ARCHITECTS
DESIGNER	DESIGNER
LANDSCAPE	LANDSCAPE
SCULPTURE GROUP	SCULPTURE GROUP
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL



WFAC Black Box Addition PKG 1

1801 Mainfr, Luther King Dr.,
 San Antonio, TX 78203
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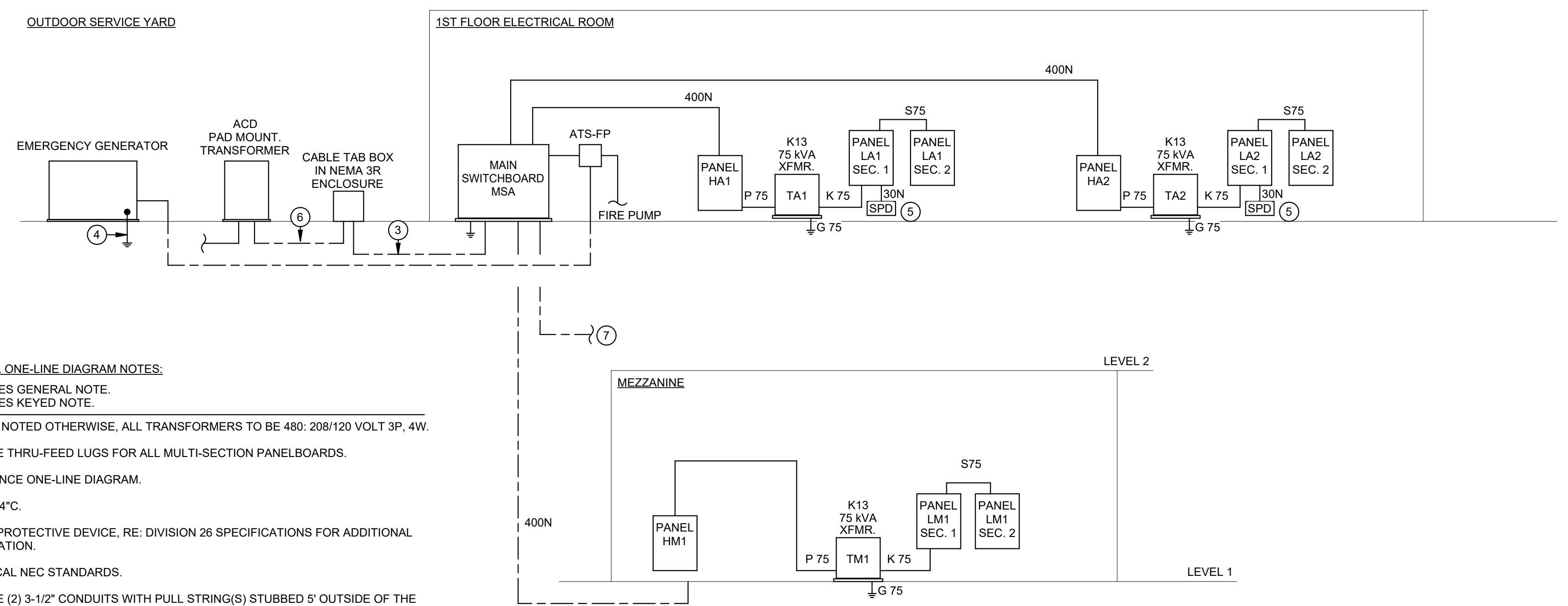
CLIENT	Alamo Colleges	
DATE	06/14/2024	
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ISSUE FOR CONSTRUCTION
 BUILDING NUMBER 1

ELECTRICAL
 ONE-LINE DIAGRAM

E-501

5
1



- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
 - Ⓢ INDICATES KEYED NOTE.
1. UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480/208/120 VOLT 3P, 4W.
 2. PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
 3. REFERENCE ONE-LINE DIAGRAM.
 4. 1#6 G, 3/4"C.
 5. SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 6. PER LOCAL NEC STANDARDS.
 7. PROVIDE (2) 3-1/2" CONDUITS WITH PULL STRING(S) STUBBED 5' OUTSIDE OF THE MAIN BUILDING FOR FUTURE USE.

ALUMINUM FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
200	3#250, 1#4G	2"	1	
200N	4#250, 1#4G	2 1/2"	1	
225	3#300, 1#2G	2 1/2"	1	
225N	4#300, 1#2G	3"	1	
250	3#350, 1#2G	2 1/2"	1	
250N	4#350, 1#2G	3"	1	
300	3#500, 1#2G	3"	1	
300N	4#500, 1#2G	3"	1	
400	3#250, 1#1G	2 1/2"	2	
400N	4#250, 1#1G	2 1/2"	2	
600	3#500, 1#2OG	3"	2	
600N	4#500, 1#2OG	3 1/2"	2	
800	3#400, 1#3OG	3"	3	
800N	4#400, 1#3OG	3"	3	
1200	3#500, 1#3OG	3"	4	
1200N	4#500, 1#3OG	3 1/2"	4	

FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
30N	4#10, 1#10G	1"	1	
50N	4#6, 1#10G	1"	1	
60N	4#6, 1#10G	1"	1	
100	3#1, 1#6G	1 1/2"	1	
100N	4#1, 1#6G	1 1/2"	1	
125	3#1, 1#6G	1 1/2"	1	
125N	4#1, 1#6G	2"	1	
150	3#1/0, 1#6G	1 1/2"	1	
150N	4#1/0, 1#6G	2"	1	
175	3#2/0, 1#6G	2"	1	
175N	4#2/0, 1#6G	2"	1	
200	3#3/0, 1#6G	2"	1	
200N	4#3/0, 1#6G	2"	1	
225	3#4/0, 1#4G	2"	1	
225N	4#4/0, 1#4G	2 1/2"	1	
250	3#250, 1#4G	2 1/2"	1	
250N	4#250, 1#4G	3"	1	
300	3#350, 1#4G	3"	1	
300N	4#350, 1#4G	3"	1	
400	3#3/0, 1#3G	2"	2	
400N	4#3/0, 1#3G	2"	2	
400S	4#500	3 1/2"	1	
600	3#350, 1#1G	3"	2	
600N	4#350, 1#1G	3"	2	
600S	4#350	3"	2	
800	3#500, 1#1OG	3"	2	
800N	4#500, 1#1OG	3 1/2"	2	
800S	4#500	3 1/2"	2	
1000	3#400, 1#2OG	3"	3	
1000N	4#400, 1#2OG	3"	3	
1000S	4#400	3"	3	
1200	3#250, 1#3OG	3"	4	
1200N	4#250, 1#3OG	3"	4	
1200S	4#250	3"	4	
1600S	4#400	3"	5	
2000S	4#400	3"	6	
2500S	4#500	3 1/2"	7	
3000S	4#500	3 1/2"	8	
4000S	4#500	3 1/2"	11	

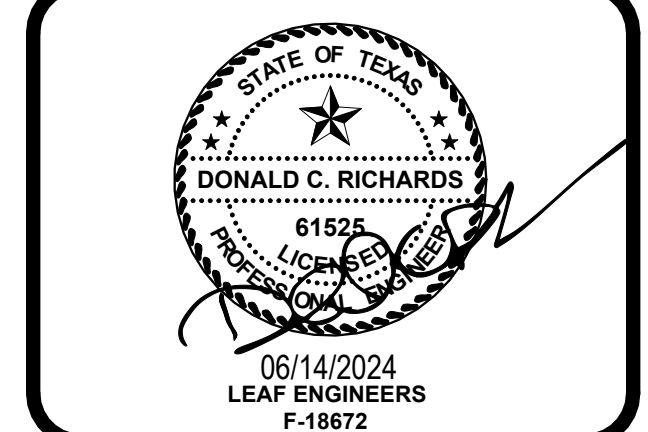
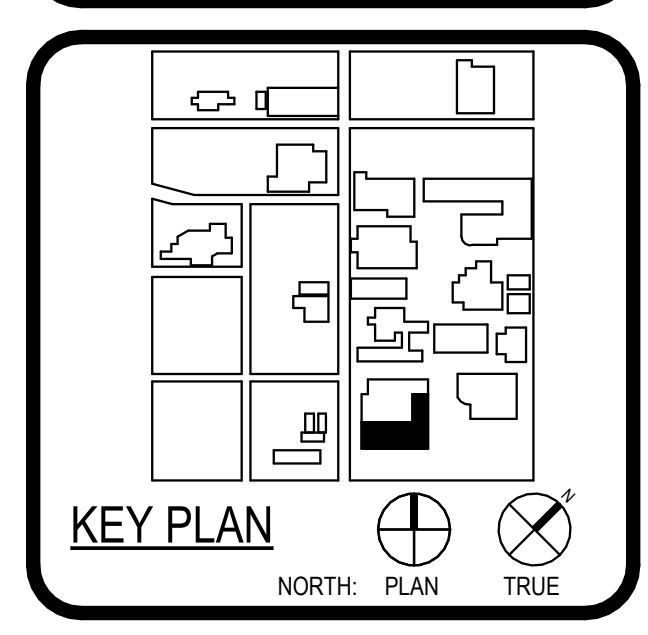
TRANSFORMER FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#6G	1 1/2"	1	
K15	3#4, 1#6N, 1#6G	1 1/4"	1	
G15	1#6G	1/2"	1	
P15	2#6, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G15	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P25	2#6, 1#10G	1"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D25	3#1, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G25	1#6G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P30	3#6, 1#10G	3/4"	1	
S30	4#1, 1#6G	1 1/2"	1	
K30	3 #1/0, 1#2/0N, 1#6G	2"	1	
G30	1#6G	1/2"	1	
P37	2#1, 1#6G	1 1/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
D37	3#3/0, 1#4G	3"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G37	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P45	3#4, 1#6G	1"	1	
S45	4#1/0, 1#6G	1 1/2"	1	
K45	3#2/0, 1#250, 1#4G	2"	1	
G45	1#6G	1/2"	1	
P50	2#1, 1#6G	1 1/4"	1	
S50	3#3/0, 1#3G	2"	1	
G50	1#3G	3/4"	1	
P75	3#1, 1#6G	1 1/2"	1	
S75	4#4/0, 1#2G	2 1/2"	1	
K75	3#4/0, 2#3/0N, 1#2G	2 1/2"	1	
G75	1#1/0G	1/2"	1	
P75	2#3/0, 1#6G	2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S75	3#3/0, 1#4G	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G75	1#4G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P75A	3#1, 1#6G	1 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
S75A	4#4/0, 1#2G	2 1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
G75A	1#2/0	1/2"	1	FOR 480 3Ø: 120/240 3Ø TRANSFORMERS
P112	3#2/0, 6G	2"	1	
S112	4#3/0, 1#10G	2"	2	
K112	3#4/0, 1#350N, 1#1/0G	2 1/2"	2	
G112	1#1/0G	3/4"	1	
P150	3#250, 1#4G	2 1/2"	1	
S150	4#350, 1#2OG	3"	2	
K150	3#350, 2#3/0N, 1#2OG	3"	2	
G150	1#2OG	3/4"	1	
P167	2#4/0, 1#2OG	2"	2	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S167	3#350, 1#3OG	3"	3	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
G167	1#3OG	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
P225	3#500, 3#3G	3"	1	
S225	4#350, 1#2OG	3"	1	
K225	3#350, 2#4/0, 1#1G	3 1/2"	3	
G225	1#2OG	3/4"	1	



ARCHITECT
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601 N.W. Loop 410, Suite 400
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210-820-0123 P
210-829-5578 F
TX Firm BR 1608



WFAC Black Box Addition PKG 1
1801 Main Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



CLIENT Alamo Colleges		PROJECT NUMBER 230462
DATE 06/14/2024		
DRAWING HISTORY		
No.	Description	Date

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BUILDING NUMBER 1

ELECTRICAL RISER DIAGRAM

GENERAL ELECTRICAL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED. WALL SWITCHES 15" AFF TO BOTTOM OF BOX...

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.

- 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST.

- 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL...

LIGHTING FIXTURE NOTES

KEY TO NOTE PREFIXES: "G" NOTES ARE "GENERAL" LIGHTING NOTES THAT APPLY TO THE ENTIRE PROJECT. "S" NOTES ARE "SCHEDULE" NOTES THAT APPLY TO SPECIFIC LUMINAIRES.

- G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT.

GENERAL ELECTRICAL REMODEL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED.

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE

- 2. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.

- 3. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST.

- 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT. CIRCUITING A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL...

LIGHTING FIXTURE NOTES

KEY TO NOTE PREFIXES: "G" NOTES ARE "GENERAL" LIGHTING NOTES THAT APPLY TO THE ENTIRE PROJECT. "S" NOTES ARE "SCHEDULE" NOTES THAT APPLY TO SPECIFIC LUMINAIRES.

- G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT.

CONTACTOR SCHEDULE table with columns: DESIGNATION, CIRCUITS SERVED, CONTACT AMPS, N.O. POLES, COIL VOLTS, CONTROL, SUPPLY CKT., REMARKS

1 PROVIDE ASCO ACCESSORY 47 SOLID STATE TWO-WIRE CONTROL INTERFACE MODULE.

ELECTRICAL SYMBOL LEGEND

- 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. 2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT. 3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED: LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN. LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S)...

LIGHTING: LED LIGHTING FIXTURE. LETTER INDICATES TYPE. SMALL LETTER INDICATES SWITCH CONTROL. NUMBER INDICATES CIRCUIT. CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM...

CONTROL: SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED. "PI" INDICATES PILOT LIGHT. "WP" INDICATES WEATHERPROOF. "K" INDICATES KEY OPERATED. "MO" INDICATES SPDT MOMENTARY CONTACT...

POWER OUTLETS: 20A-125V DUPLEX RECEPTACLE. 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE...

TELEPHONE/DATA: FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE. WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS...

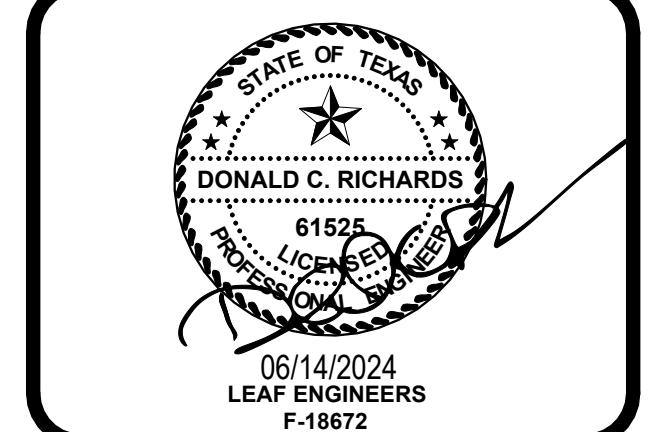
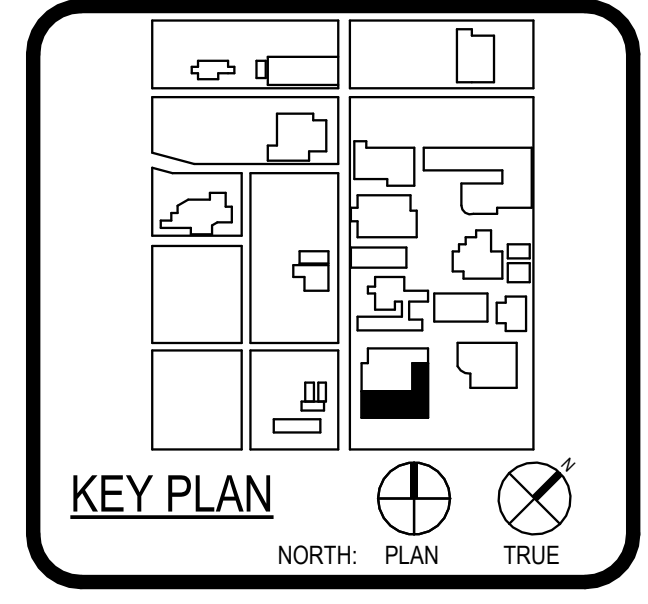
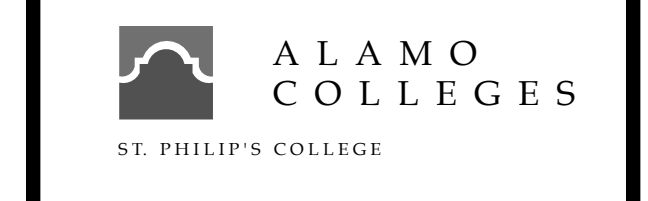
EQUIPMENT: "42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE. MOTOR. DISCONNECT SWITCH...



ARCHITECT table listing project details: SAN ANTONIO, 601 N.W. Loop 410, Suite 400, San Antonio, TX 78216



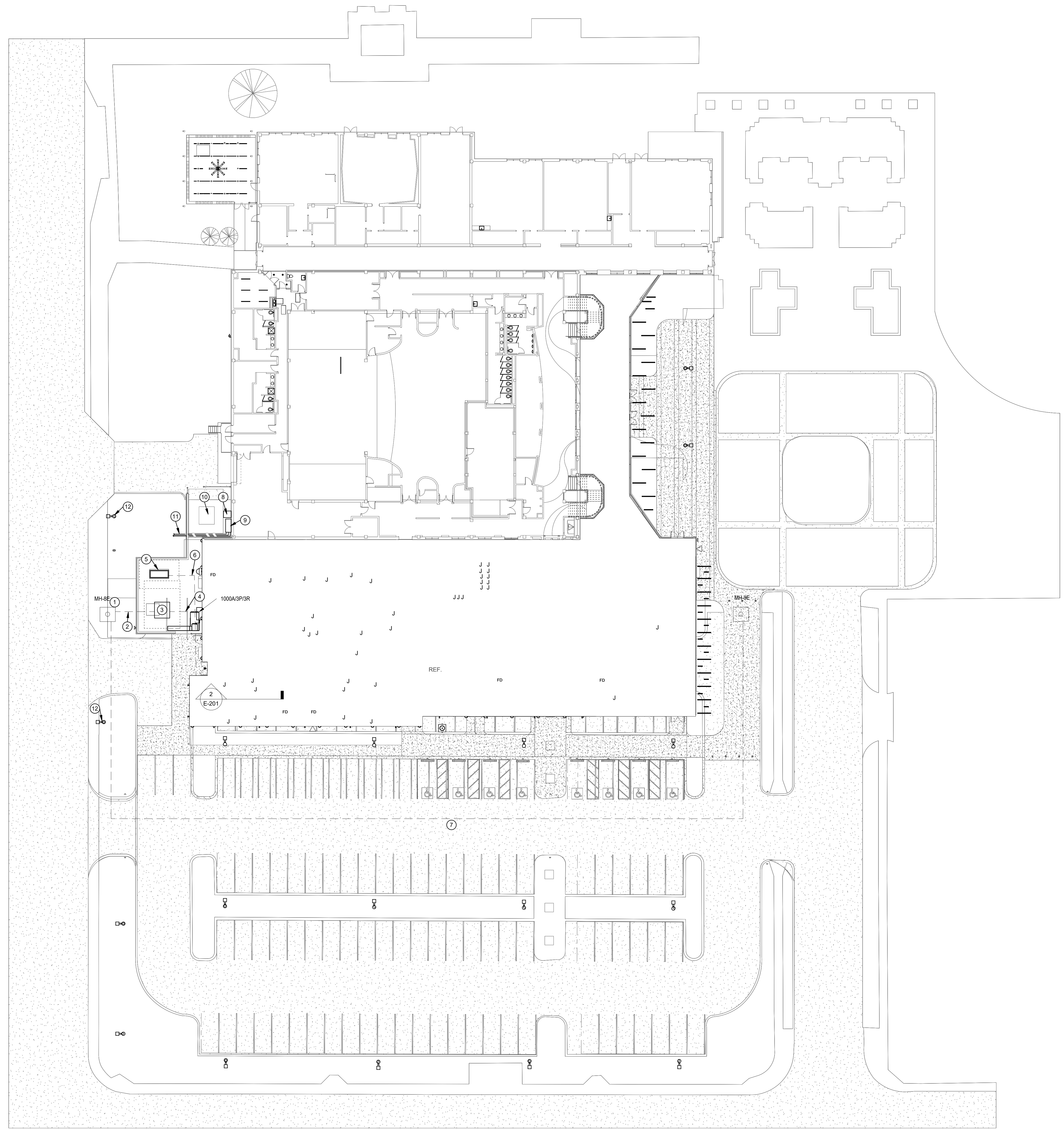
WFAC Black Box Addition PKG 1



CLIENT table: Alamo Colleges, DATE 06/14/2024, PROJECT NUMBER 230462

ISSUE FOR CONSTRUCTION table with columns: No., Description, Date

ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE E-601



SITE PLAN GENERAL NOTES:

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1" IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

SITE PLAN KEYED NOTES:

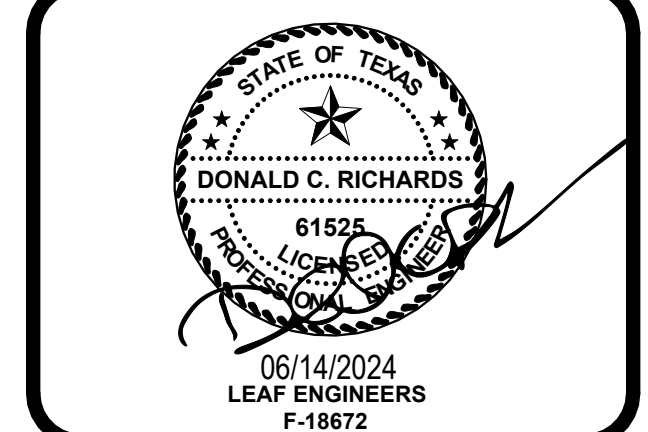
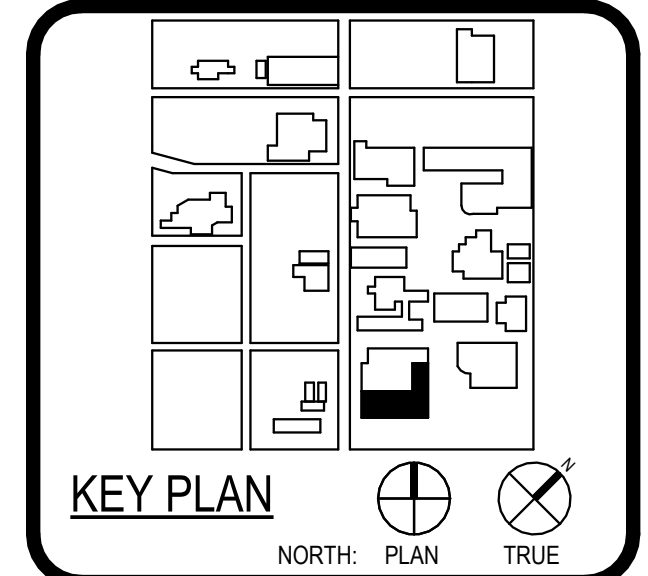
- 1 EXISTING ELECTRICAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- 3 NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
- 4 NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
- 5 NEW 480/277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
- 6 NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR ATS IN MEZZAINE.
- 7 REROUTED PATHWAY FOR EXISTING UNDERGROUND DUCKSANK WITH 4 EXISTING CONDUITS. CONTRACTOR SHALL VERIFY EXACT PATHWAY OF EXISTING CONDUITS AND FEEDERS SIZES WITHIN EXISTING MANHOLES. CONTRACTOR SHALL COORDINATE NEW PATHWAY WITH ST. PHILLIPS UTILITY FACILITIES TO ENSURE PATHWAY CAN BE Routed.
- 8 RELOCATED CONDENSING UNIT AND ASSOCIATED DISCONNECT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 9 EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
- 10 EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
- 11 PROPOSED NEW PATHWAY FOR RELOCATED EXISTING CONDUITS FROM DP-6. CONTRACTOR SHALL VERIFY WHERE CONDUITS ARE FED TO.
- 12 NEW LOCATION OF PEDESTRIAN POLES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. UTILIZE EXISTING CIRCUIT IF AVAILABLE. IF CIRCUIT ISNT OBTAINABLE CONTRACTOR SHALL UTILIZE NEAREST AVAILABLE SPARE IN PANEL WITH IDENTICAL VOL TAG.



ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 DALLAS, TEXAS 75202 214-760-1000
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS 1111 W. 14TH STREET SUITE 100 DALLAS, TEXAS 75202 214-760-1000
MECHANICAL ENGINEER	LINBY & FRANK ENGINEERING 1111 W. 14TH STREET SUITE 100 DALLAS, TEXAS 75202 214-760-1000
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 W. 14TH STREET SUITE 100 DALLAS, TEXAS 75202 214-760-1000



WFAC Black Box Addition PKG 1
 1801 Main Luther King Dr.,
 San Antonio, TX 78203
 ISSUE FOR CONSTRUCTION



CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

SITE POWER PLAN

1 SITE POWER PLAN
SCALE: 1" = 20'-0"

PROJECT GENERAL NOTES

- A. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS TO REMAIN SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION... B. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY...

PLUMBING TESTING NOTES

- 1. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS TO REMAIN SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION... 2. PIPE COVER AND BACKFILLING: A. AFTER HYDROSTATIC TEST, EVENLY BACKFILL ENTIRE TRENCH WIDTH BY HAND PLACING BACKFILL MATERIAL...

PLUMBING ABBREVIATION SCHEDULE

Table with 4 columns: Symbol, Item, Abbreviation, Description. Includes items like (A) ITEM NOTED TO BE ABANDONED, (D) ITEM NOTED TO BE DEMOLISHED, (E) EXISTING ITEM, etc.

NOTES: 1. NOT ALL ABBREVIATIONS MAY BE USED ON THESE DRAWINGS.

PLUMBING SYMBOLS LEGEND

Table with 4 columns: Drawings, Details, ABV., Description. Includes symbols for AV ACID VENT, AW ACID WASTE, CA COMPRESSED AIR, CW COLD WATER, etc.

NOTES: 1. NOT ALL SYMBOLS MAY BE USED ON THESE DRAWINGS.

PLUMBING PIPE MATERIAL SCHEDULE

Table with 3 columns: Piping System, Below Grade, Above Grade. Includes Storm Water, Sanitary Waste, Domestic Water, etc.

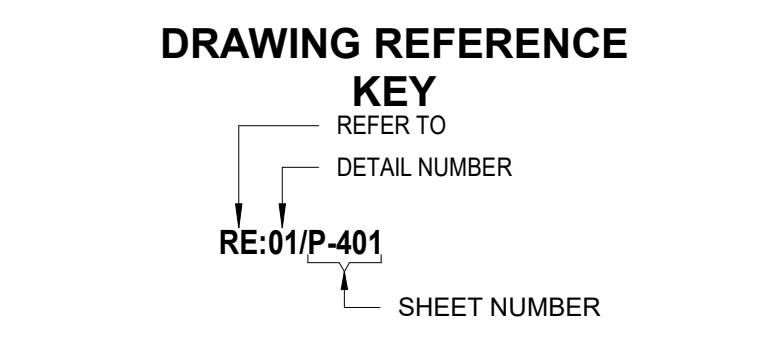
WATER HAMMER ARRESTER SCHEDULE

Table with 3 columns: Pipe Size, Cross Fixture Units, PDI STD. Includes 1/2", 3/4", 1", etc.

NOTES: 1. AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE PROVIDED TO ALL FIXTURE RUNOUT AND SHALL BE SIZED ACCORDING TO LOCAL PLUMBING CODE (HHS) & PDI.

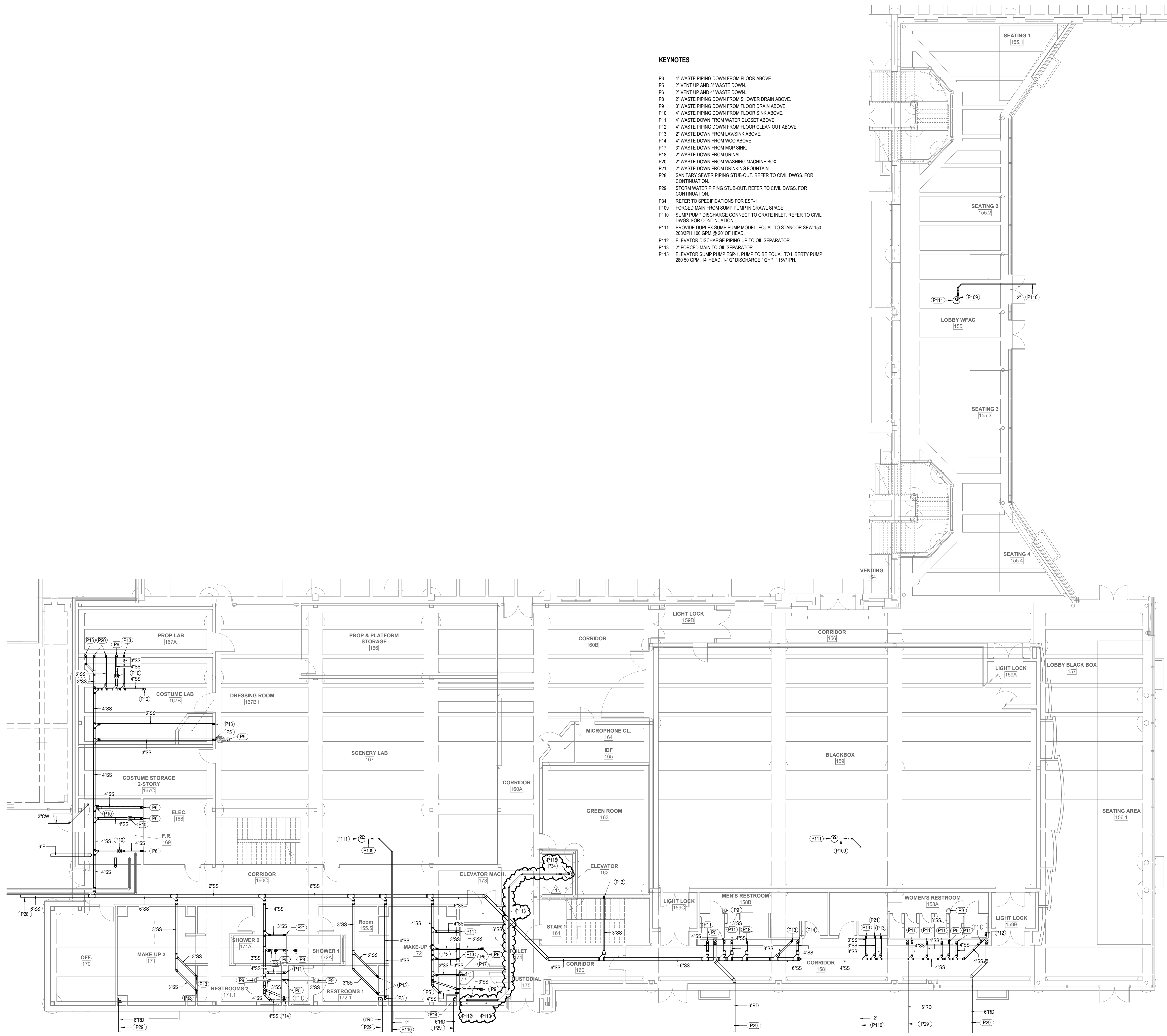
SLOPE OF HORIZONTAL DRAINAGE PIPE

Table with 2 columns: Pipe Size, Minimum Slope. Includes 2-1/2" OR LESS, 3" TO 6", 8" OR LARGER.



KEYNOTES

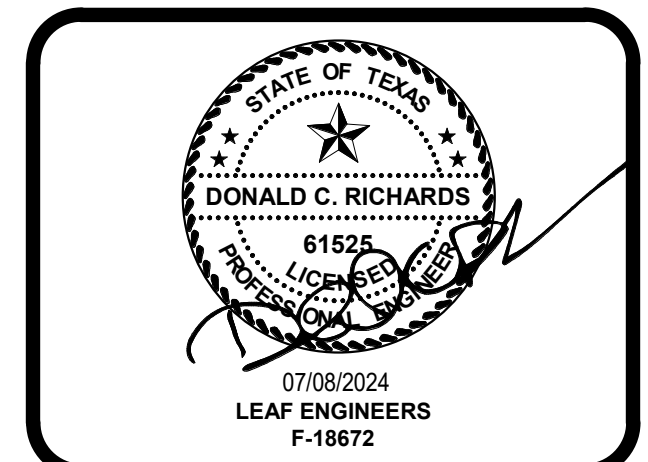
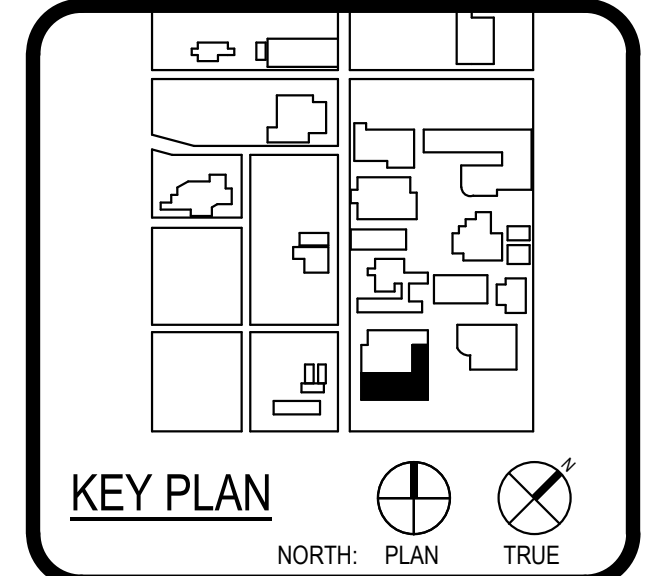
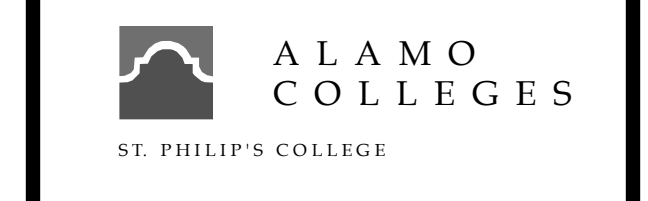
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET ABOVE.
- P12 4" WASTE PIPING DOWN FROM FLOOR CLEAN OUT ABOVE.
- P13 2" WASTE DOWN FROM LAV/SINK ABOVE.
- P14 4" WASTE DOWN FROM WCO ABOVE.
- P17 3" WASTE DOWN FROM MOP SINK.
- P18 2" WASTE DOWN FROM URINAL.
- P20 2" WASTE DOWN FROM WASHING MACHINE BOX.
- P21 2" WASTE DOWN FROM DRINKING FOUNTAIN.
- P28 SANITARY SEWER PIPING STUB-OUT. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P29 STORM WATER PIPING STUB-OUT. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P34 REFER TO SPECIFICATIONS FOR ESP-1
- P109 FORCED MAIN FROM SUMP PUMP IN CRAWL SPACE.
- P110 SUMP PUMP DISCHARGE CONNECT TO GRATE INLET. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P111 PROVIDE DUPLEX SUMP PUMP MODEL EQUAL TO STANCOR SEW-150 200/3PH 100 GPM @ 20' OF HEAD.
- P112 ELEVATOR DISCHARGE PIPING UP TO OIL SEPARATOR.
- P113 2" FORCED MAIN TO OIL SEPARATOR.
- P115 ELEVATOR SUMP PUMP ESP-1. PUMP TO BE EQUAL TO LIBERTY PUMP 280 50 GPM, 14' HEAD, 1-1/2" DISCHARGE 1/2HP, 115V/1PH.



ARCHITECT PBK Architects, Inc.
 SAN ANTONIO
 601 N. W. Loop 410, Suite 400
 San Antonio, TX 78216
 210-829-0123 P
 210-829-0578 F
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 San Antonio, TX 78203
 90%CD - IFR

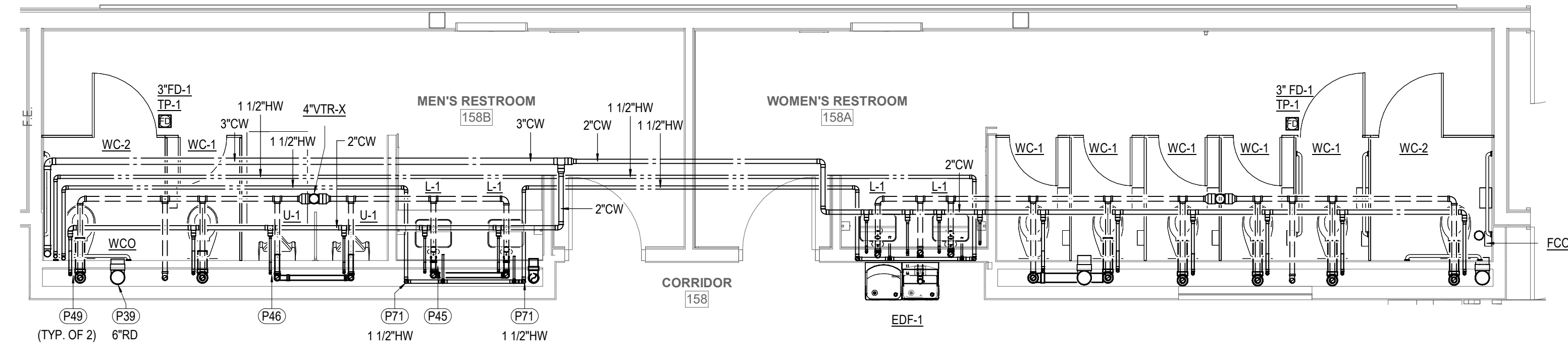


No.	Description	Date
1	CITY COMMENTS	06/05/2024
2	CITY COMMENTS	06/12/2024
3	CITY COMMENTS	06/24/2024
4	CITY COMMENTS	07/08/2024

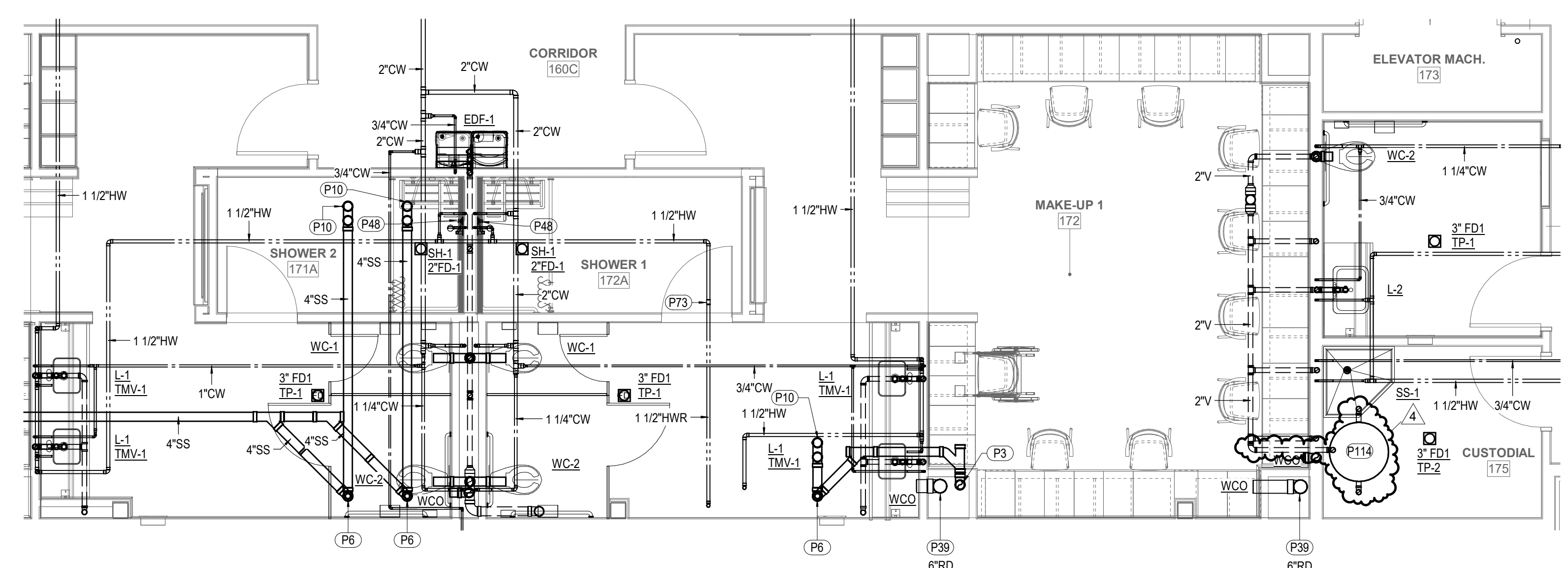
90%CD - IFR
 BUILDING NUMBER 1

CRAWLSPACE PLUMBING PLAN

5
1



1 1ST LEVEL ENLARGED PLUMBING PLAN - AREA C
SCALE: 1/4" = 1'-0"



2 1ST LEVEL ENLARGED PLUMBING PLAN - AREA D
SCALE: 1/4" = 1'-0"

KEYNOTES

- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P10 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P39 ROOF DRAIN PIPING DOWN TO BELOW FLOOR. SIZE AS NOTED.
- P45 3/4" COLD WATER, 3/4" HOT WATER DOWN AND 2" VENT UP.
- P46 3/4" COLD WATER DOWN AND 2" VENT UP.
- P48 3/4" COLD WATER AND 3/4" HOT WATER DOWN TO SHOWER VALVE.
- P49 1 1/4" COLD WATER DOWN AND 2" VENT UP.
- P71 HOT WATER DOWN IN CHASE / WALL SIZE AS NOTED.
- P73 PROVIDE BALANCING VALVE.
- P114 PROVIDE ELEVATOR SLUMP SYSTEM EQUAL TO PARK ELYC-100 SEPARATOR MODEL ESC-100 50 GPM FLOW RATE 100 GALLON CAPACITY.

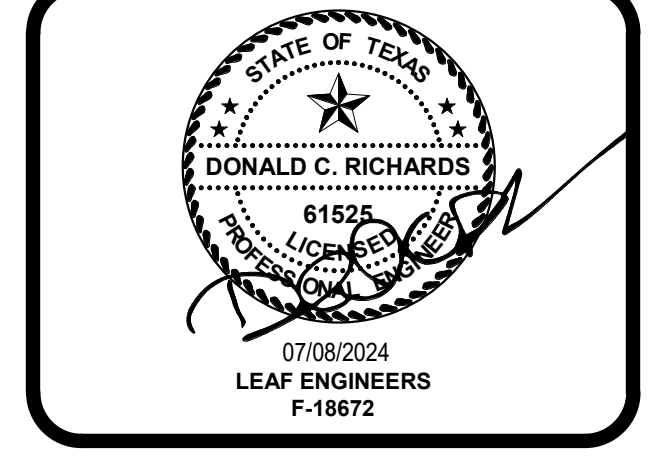
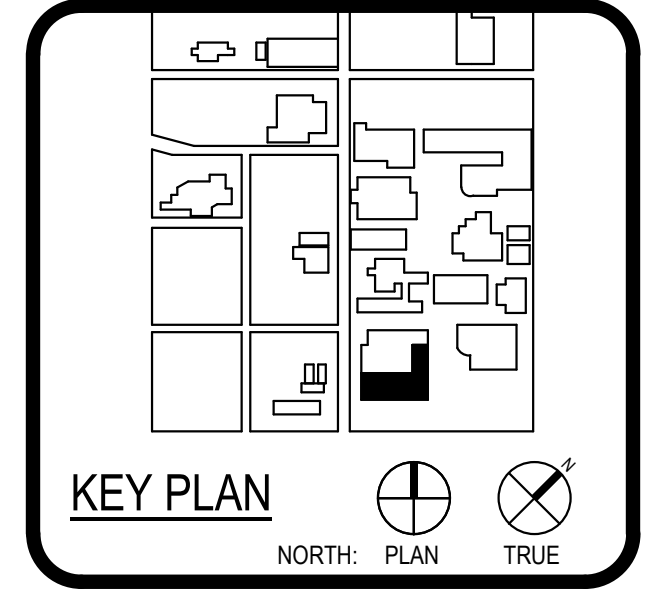
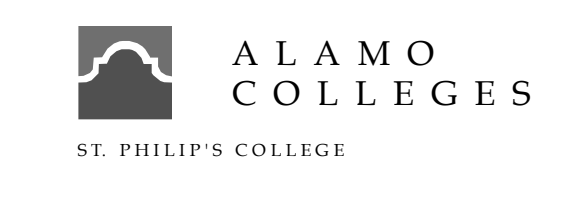


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm SR 1659
ASSOCIATE ARCHITECT	W.A. ARCHITECTS 1710 S. W. 19th St. AUSTIN, TX 78741
DESIGNER	DESIGNER
ENGINEER	ENGINEER
MECHANICAL ENGINEER	MECHANICAL ENGINEER
ELECTRICAL ENGINEER	ELECTRICAL ENGINEER
PLUMBING ENGINEER	PLUMBING ENGINEER
MECHANICAL PROFESSIONALS	MECHANICAL PROFESSIONALS
ELECTRICAL PROFESSIONALS	ELECTRICAL PROFESSIONALS
PLUMBING PROFESSIONALS	PLUMBING PROFESSIONALS



WFAC Black Box Addition PKG 1

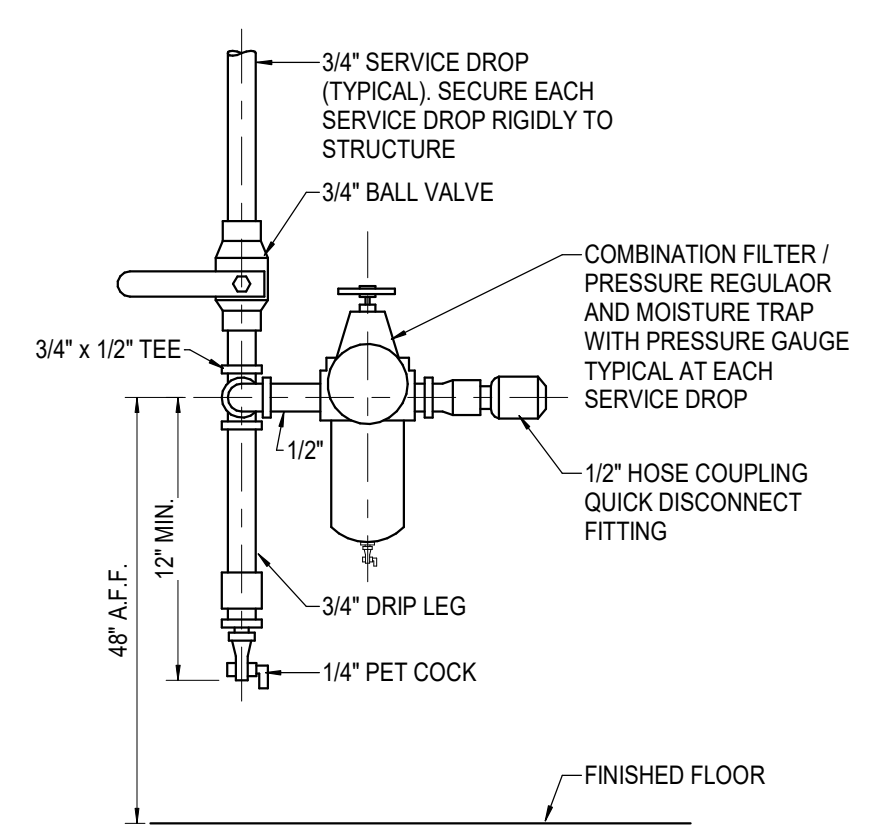
1801 Main, Luber King Dr.,
San Antonio, TX 78203
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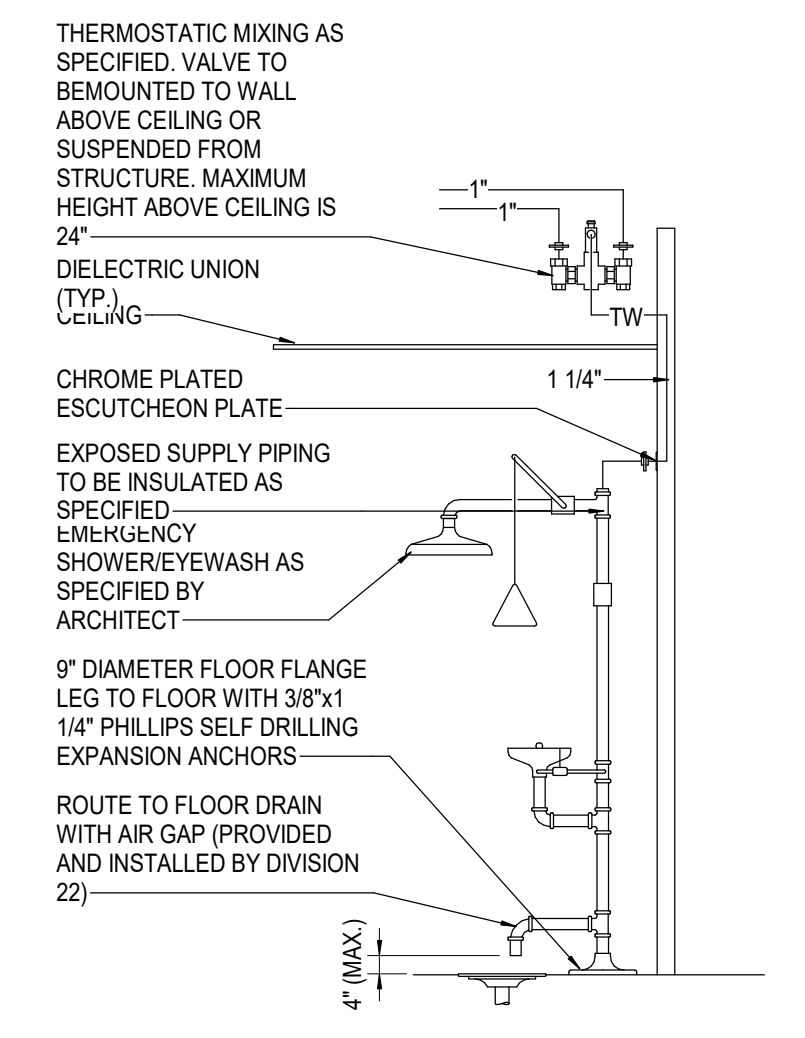
CLIENT		Alamo Colleges
DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
4	CITY COMMENTS	07/08/2024
90%CD - IFR		
BUILDING NUMBER	1	

PLUMBING ENLARGED PLAN

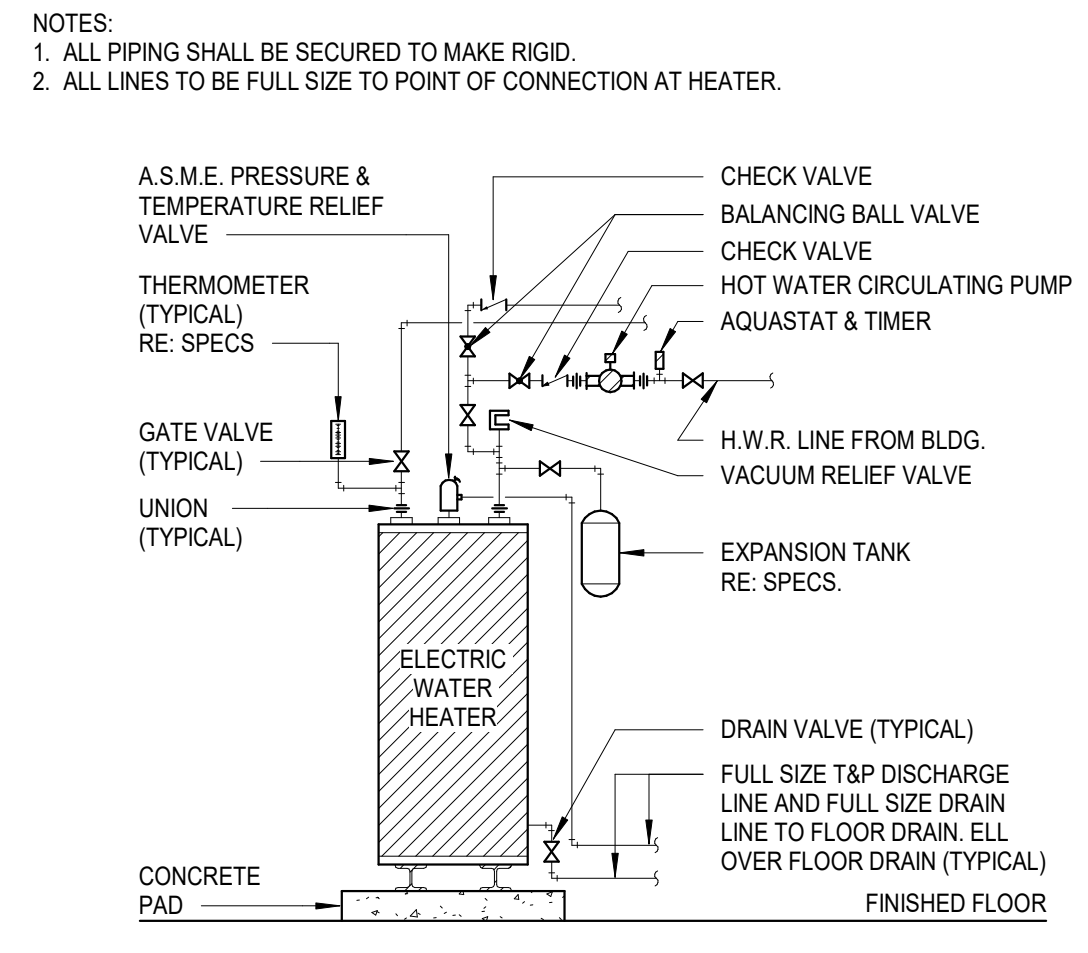
P-401



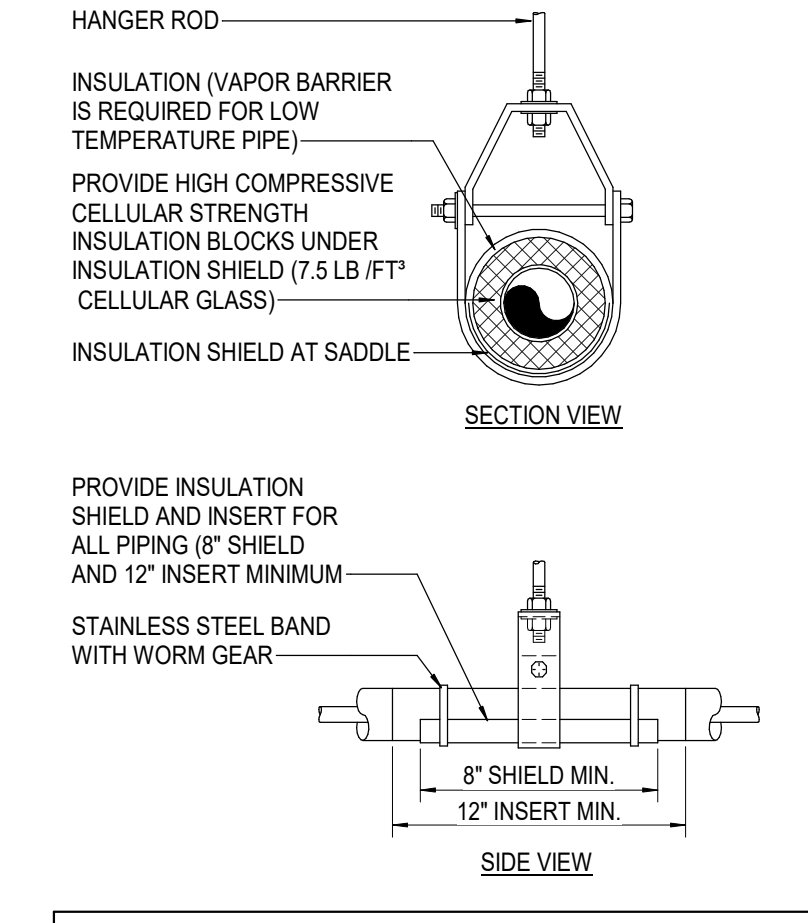
10 COMPRESSED AIR OUTLET DETAIL
SCALE: NOT TO SCALE



7 EMERGENCY SHOWER/EYEWASH DETAIL
SCALE: NOT TO SCALE



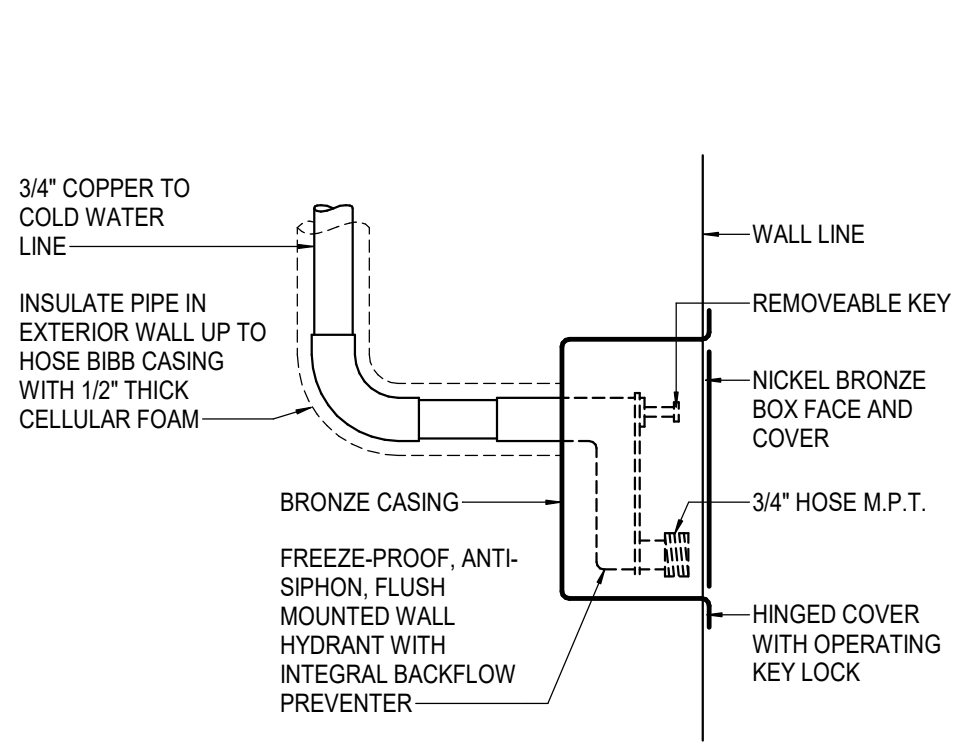
4 ELECTRIC WATER HEATER PIPING
SCALE: N.T.S.



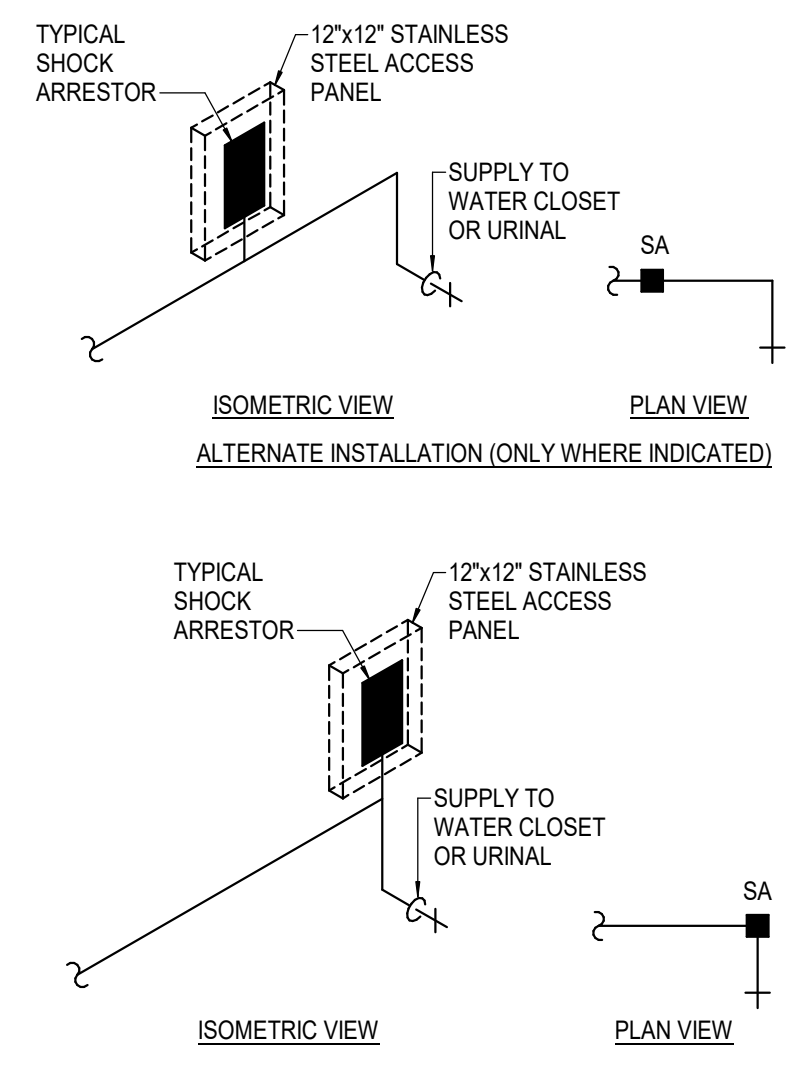
1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'

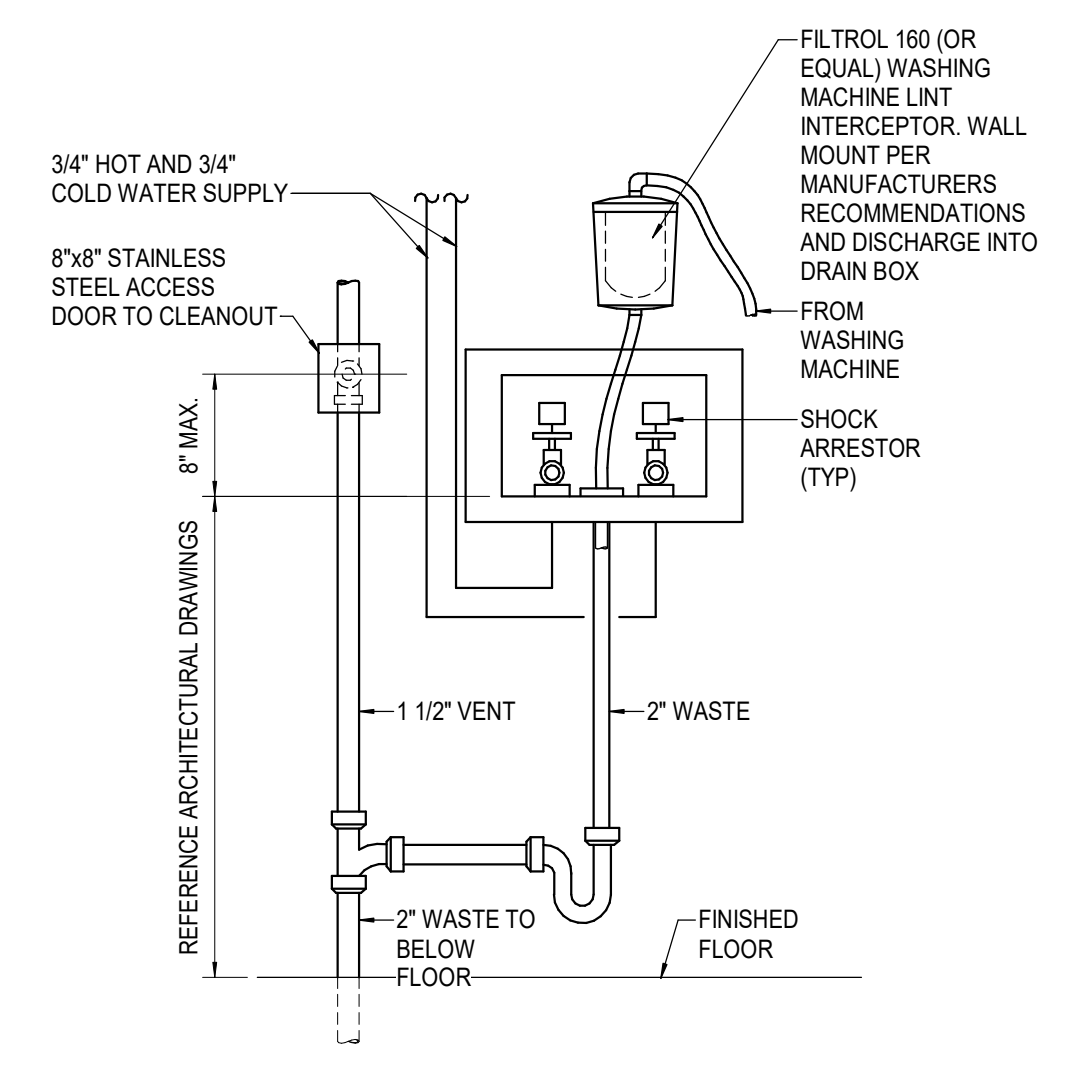
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



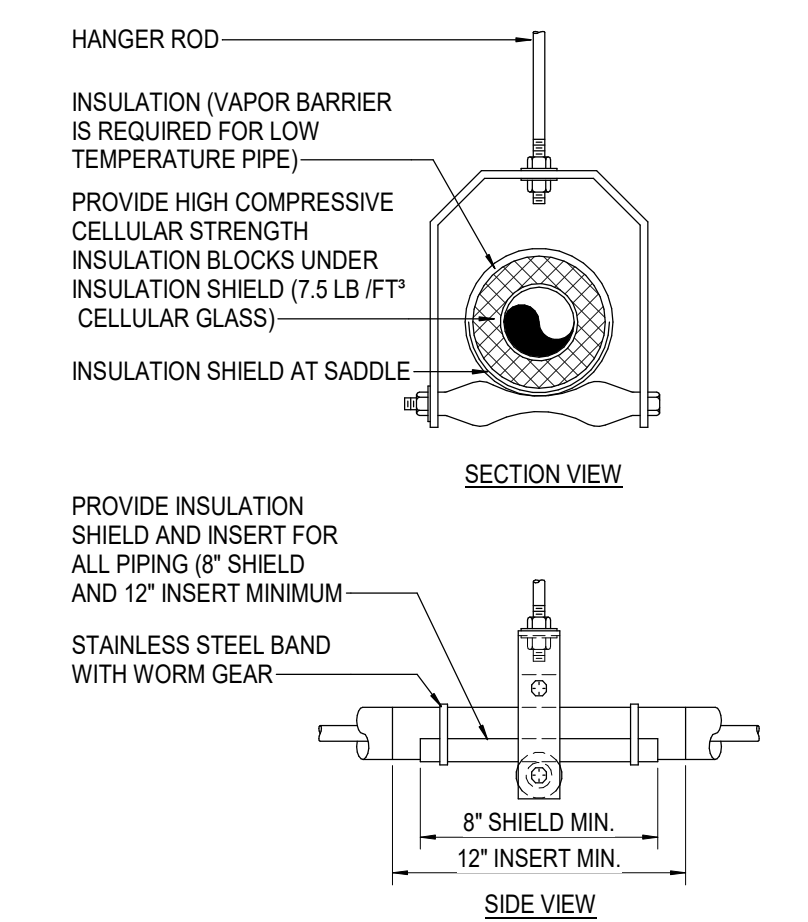
11 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



8 SHOCK ARRESTOR DETAIL
SCALE: NOT TO SCALE



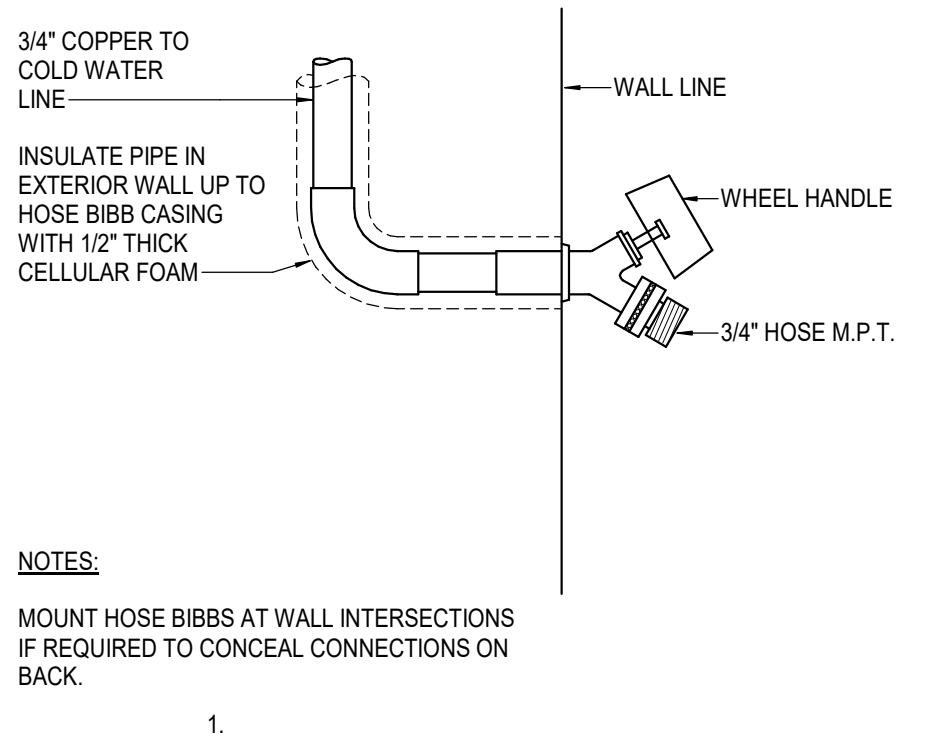
5 WASHER / DRAIN BOX CONNECTION DETAIL
SCALE: NOT TO SCALE



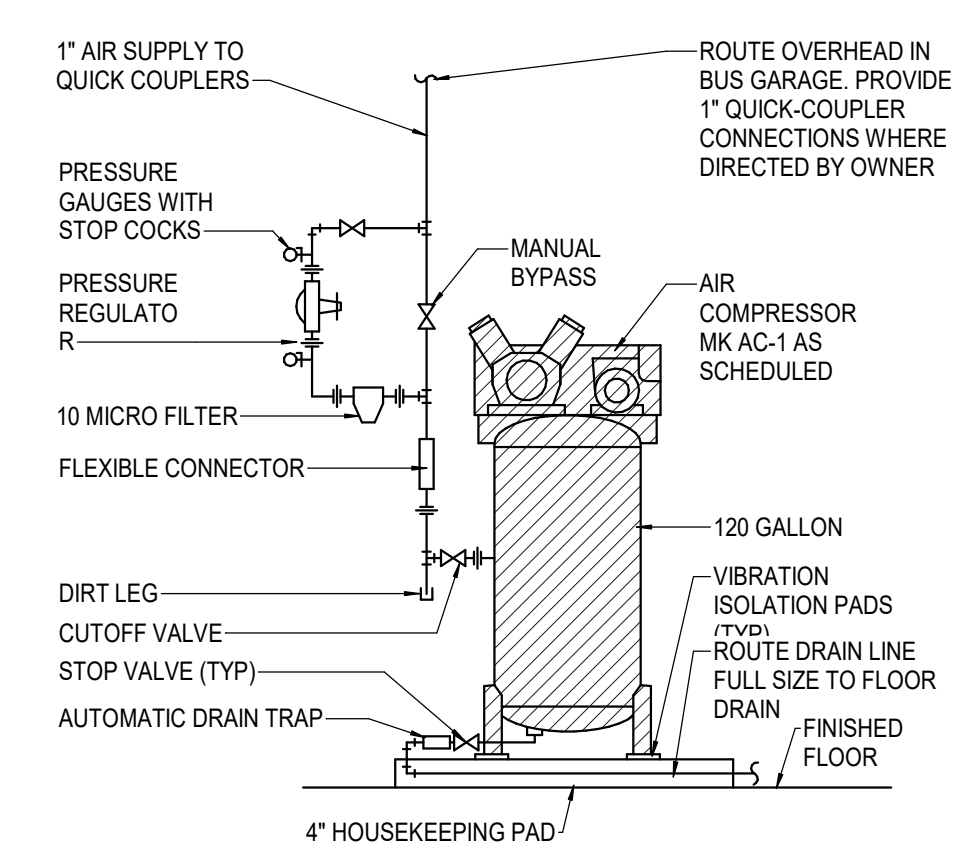
2 ADJUSTABLE ROLLER PIPE HANGER DETAIL
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'

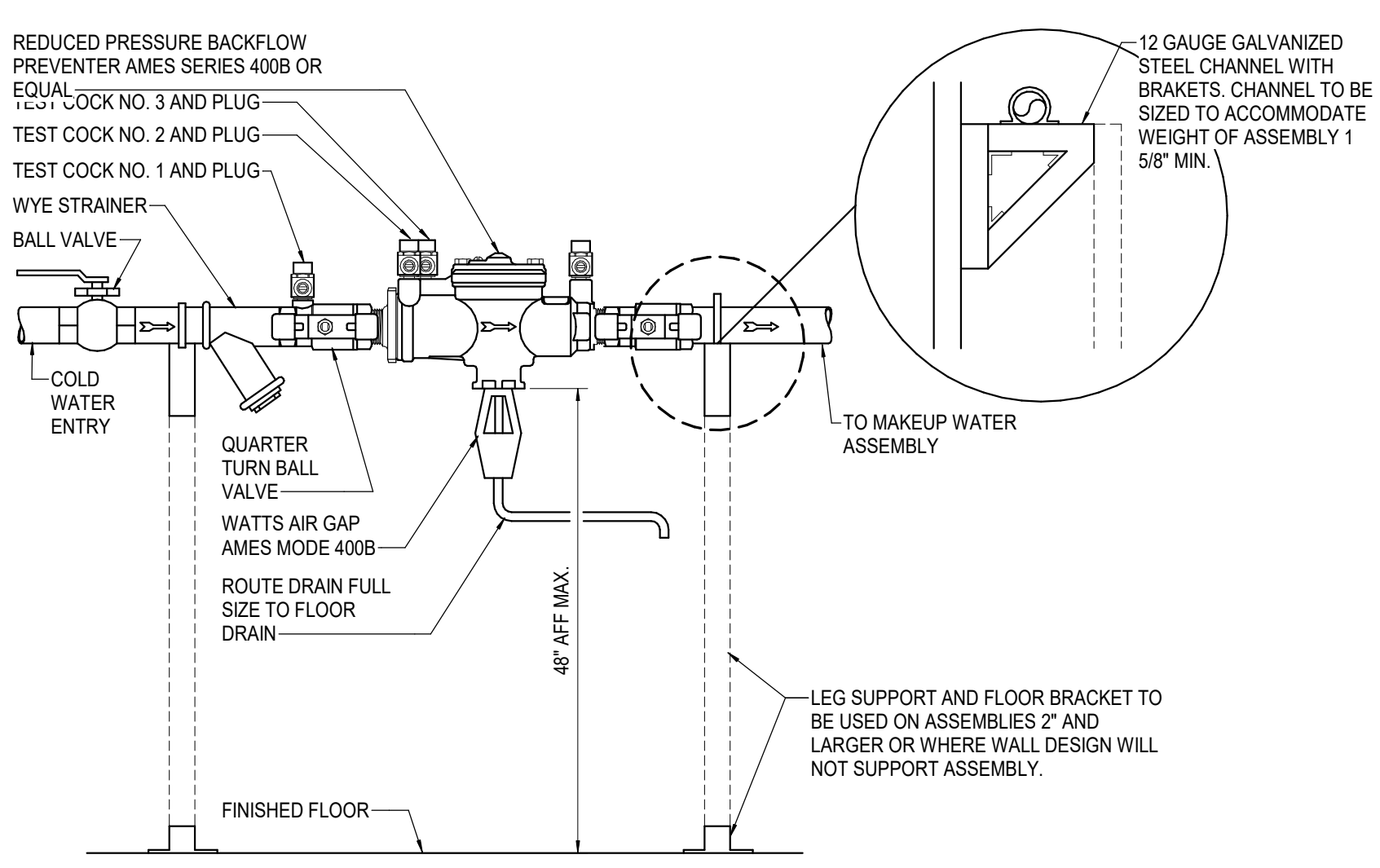
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



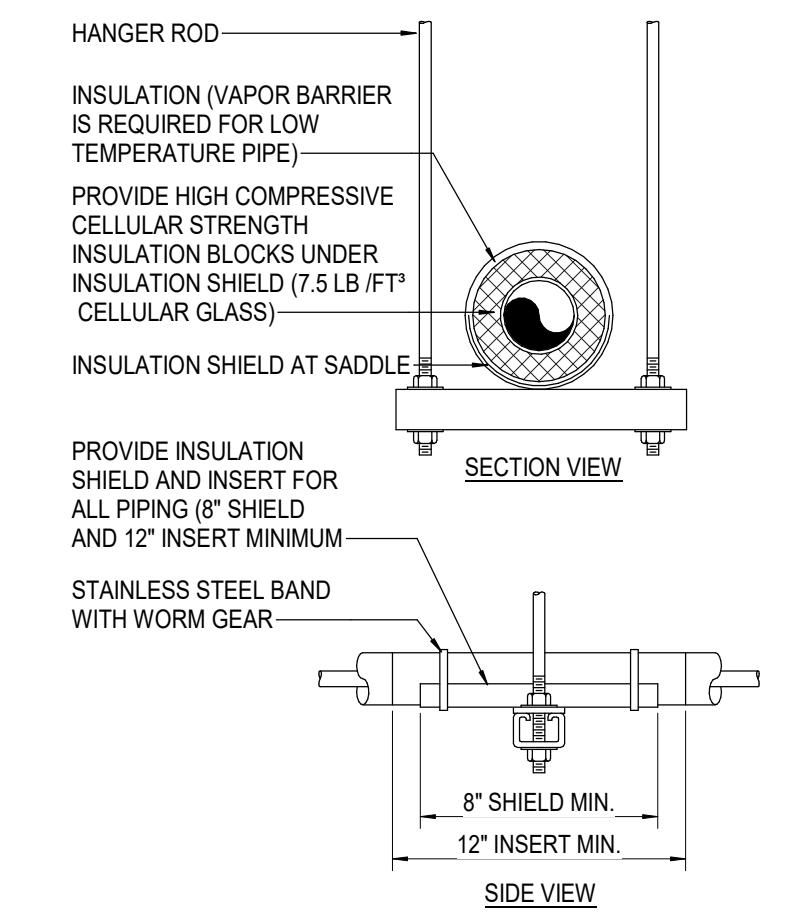
12 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



9 AIR COMPRESSOR PIPING DETAIL
SCALE: NOT TO SCALE



6 BACKFLOW PREVENTER MOUNTING DETAIL
SCALE: NOT TO SCALE



3 TRAPEZE PIPE HANGER DETAIL
SCALE: NOT TO SCALE

MAXIMUM PIPING / TUBING SUPPORT SPACING																	
NOM. SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPING	7'	7'	7'	9'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TUBING	5'	6'	6'	6'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'

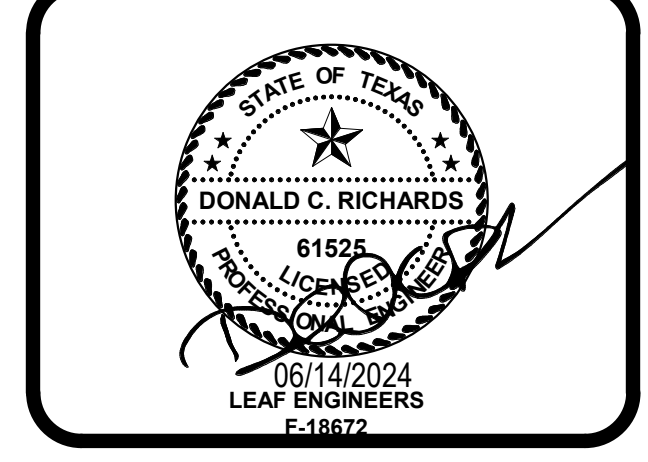
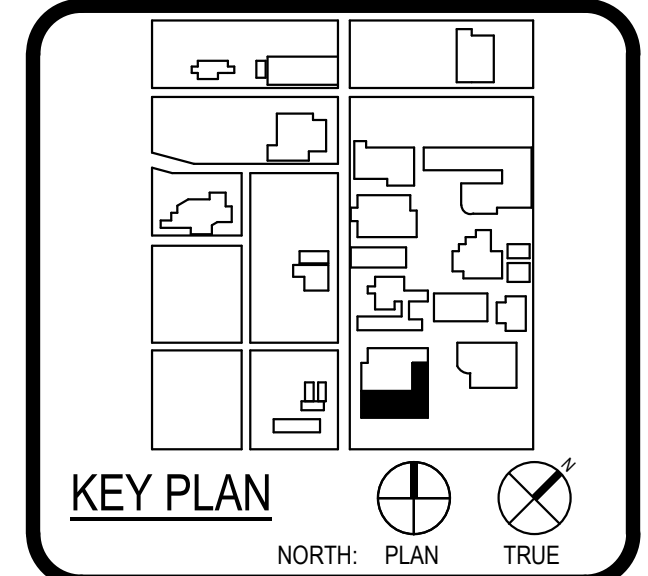
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



ARCHITECT	PBK Architects, Inc.
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ASSOCIATE ARCHITECT	MAX ARCHITECTS
1101 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
DESIGNER	LANDSCAPE
1101 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING
1101 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	
MECHANICAL ENGINEER	MECHANICAL
1101 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F	



WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

PLUMBING DETAILS

GROUP	SYMBOL	DESCRIPTION
DEVICES	[]	FOOT ADDED TO ANY SYMBOL INDICATES WALL MOUNTED.
	[H]	MANUAL FIRE ALARM PULL STATION. INSTALL AT 48" A.F.F. PROVIDE STOPPER II COVER WITH HORN.
	[E]	FIRE ALARM SPEAKER OR HORN. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR.
	[E-]	COMBINATION SPEAKER / STROBE. PROVIDE WEATHER RESISTANT MODELS FOR DEVICES INSTALLED ON THE EXTERIOR.
	[S]	VISUAL ALARM STROBE.
	[D]	SMOKE DETECTOR. NO SUBSCRIPT INDICATES IONIZATION TYPE; "P" INDICATES PHOTOELECTRIC TYPE; "D" INDICATES DUCT TYPE AND PHOTOELECTRIC.
	[O]	HEAT DETECTOR; COMBINATION RATE OF RISE AND FIXED TEMPERATURE. "T" INDICATES FIXED TEMPERATURE ONLY; "R" INDICATES RATE OF RISE ONLY; "C" INDICATES RATE COMPENSATION TYPE.
	[CO]	CARBON MONOXIDE DETECTOR.
	[B]	BEAM SMOKE DETECTOR. "T" INDICATES TRANSMITTER. "R" INDICATES RECEIVER.
	[H]	FIRE FIGHTER'S TELEPHONE JACK. "H" INDICATES PERMANENT EMERGENCY TELEPHONE HANDBSET.
	[R]	AUXILIARY FIRE CONTROL RELAY. "2" INDICATES TWO RELAYS REQUIRED FOR FIRE FIGHTER OVERRIDE CONTROL.
	[D]	FIRE/SMOKE DUCT DAMPER WITH MOTOR ACTUATOR (BY DIV. 15) PROVIDE FIRE ALARM CONTROL RELAYS AND ADDRESSABLE MODULE.
	[HC]	TERMINAL CABINET FOR FIRE ALARM SYSTEM WIRING.
	[ACZ]	FIRE ALARM CONTROL PANEL. INSTALL AT 58" TO CENTER OF PANEL / 72" TO TOP OF PANEL.
	[AA]	FIRE ALARM ANNUNCIATOR PANEL.
[PH]	FIRE ALARM TRANSDUCER.	
[G]	SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH.	
[S]	SPRINKLER SYSTEM WATER FLOW SWITCH.	
[T]	TAMPER SWITCH.	
[D]	SPRINKLER SYSTEM ALARM CHECK VALVE.	
[S]	SPRINKLER SYSTEM ELECTRIC ALARM BELL.	
[PA]	SPRINKLER SYSTEM PRE-ACTION CONTROL PANEL.	
[H]	DOOR HOLDER.	
[M]	MONITOR MODULE.	

- NOTE:
- EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS.
 - REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
 - COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
 - CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.

SEQUENCE OF OPERATIONS

- WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR:
 - THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH, THE INTERNAL AUDIBLE TROUBLE DEVICE SHALL SOUND, ACKNOWLEDGEMENT OR SILENCING THE ALARM CONDITION SHALL SILENCE THE ALARM SIGNALS AND CAUSE FLASHING ALARM LEDS TO ILLUMINATE STEADY.
 - AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DEVICE LOCATION AND TIME OF ALARM. LOCATION AND ZONING MESSAGES SHALL BE CUSTOM FIELD PROGRAMMED TO RESPECTIVE PREMISES. THE ALARM INFORMATION MUST BE STORED IN EVENT MEMORY FOR LATER REVIEW. EVENT MEMORY MUST BE AVAILABLE AT THE MAIN AND ALL REMOTE ANNUNCIATORS.
 - ANY REMOTE OR LOCAL ANNUNCIATOR LED'S ASSOCIATED WITH THE ALARM ZONE SHALL BE ILLUMINATED AS HEREIN SPECIFIED.
 - A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION. (REMOTE STATION CONNECTION AND SERVICE PROVIDED BY OWNER).
 - WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL, THE CONTROL PANEL SHALL BE REQUIRED TO BE MANUALLY RESET TO CLEAR THE ALARM CONDITION, EXCEPT THAT THE ALARMS MAY BE SILENCED AS PROGRAMMED.
 - AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY AT THE MAIN OR REMOTE ANNUNCIATORS, WHEN SILENCED, THIS SHALL NOT PREVENT THE RESOUNDING OF SUBSEQUENT EVENTS IF ANY OTHER EVENT SHOULD OCCUR. (SUBSEQUENT ALARM FEATURE). WHEN ALARMS ARE SILENCED THE SILENCED LED ON THE CONTROL PANEL AND ON ANY REMOTE ANNUNCIATORS SHALL REMAIN LIT UNTIL THE ALARMED DEVICE IS RETURNED TO NORMAL.
 - ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED INDICATING DEVICES AND/OR OUTPUTS ACTIVATED, AS EACH INDICATING CIRCUIT OR CONTROL RELAY IS ACTIVATED, ITS ASSOCIATED "ON" LED SHALL BE ILLUMINATED.
 - ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES.
 - DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM.
 - DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S).
 - RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE GENERAL CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TOMAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.
- SYSTEMS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT OR AS NOTED IN NFPA FIRE ALARM DEVICES SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS. VERIFY EXACT HEIGHT WITH ARCHITECT. DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED:
 - MANUAL FIRE PULL STATIONS - MOUNT AT 42" AFF TO THE TOP OF BOX FOR FRONTAL WHEELCHAIR APPROACH; AND 48" AFF FOR SIDE WHEELCHAIR APPROACH. PULL STATIONS SHALL BE LOCATED THROUGHOUT THE PROTECTED AREA SO THAT THEY ARE UNOBSTRUCTED AND ACCESSIBLE; MOUNT WITHIN 5 FT. OF THE EXIT DOORWAY OPENING AT EACH EXIT ON EACH FLOOR; MOUNT ON BOTH SIDES OF GROUP OPENINGS OVER 40 FT. IN WIDTH, ADDITIONAL.
 - FIRE ALARM AUDIBLE DEVICES - IF CEILING HEIGHTS ALLOW, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 IN. AND BELOW THE FINISHED CEILING AT HEIGHTS OF NOT LESS THAN 6 IN. IN THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED OR RECESSED APPLIANCES, COMPLY WITH NFPA 72, CHAPTER 4.
 - SOUND PRESSURE LEVEL SHALL EXCEED THE PREVAILING EQUIVALENT SOUND IN THE ROOM BY AT LEAST 15 dba OR EXCEED ANY MAX SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dba, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 dba.
- FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4.
 - VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VALUE ALLOWED BY NFPA 72 IN ORDER TO INSTALL THE FEWEST NUMBER OF STROBES.
 - THE LAMP SHALL BE XENON STROBE TYPE OR EQUIVALENT.
 - THE COLOR SHALL BE CLEAR OR NOMINAL WHITE.
 - THE MAX. PULSE DURATION SHALL BE TWO TENTHS OF ONE SECOND (0.2 SEC) WITH A MAX. DUTY CYCLE OF 40%. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL BETWEEN INITIAL AND FINAL POINTS OF 10% MAX. SIGNAL.
 - THE INTENSITY SHALL BE A MINIMUM OF 75 CANDELA.
 - THE FLASH RATE SHALL BE A MIN. OF 1HZ AND MAX. OF 3HZ.
- VISUAL APPLIANCES SHALL BE PLACED 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. CEILING MOUNTED WERE INDICATED.
- AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS.
- ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION.
- PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED. FIRE ALARM CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR CIRCUIT.
- ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS.
- ALL FIRE ALARM CABLEING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS. DO NOT ROUTE IN OR TIE-WRAP DIRECTLY TO THE BUILDING'S STRUCTURE.
- CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN FIRE ALARM PANEL UPON ACTIVATION.
- ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES.
- PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHINGS TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
- PROVIDE AND INSTALL STOPPER II PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT.
- CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR.
- ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE. CONTRACTOR TO CONNECT NEW DEVICES TO NEW FIRE ALARM PANEL AND CONFIGURE PANEL FOR NEW DEVICES AND LEADOUT.
- CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON PROJECT. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED ABOVE 2,000 CFM AND PER NFPA. PROVIDE DUCT DETECTORS IN BOTH THE HOT AND COLD DECK ON ALL OF THE AHU UNITS. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL AHUs.
- CONTRACTOR SHALL PROVIDE ALL CABLEING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE AND START UP OF ALL AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM BEING RESET TO A NON-ALARM STATE.
- CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLEING AS REQUIRED TO PROVIDE CONTROL OF THEATER / AUDITORIUM HOUSE LIGHTS IN ORDER TO BRING THE LIGHTS UP TO 100% IN AN ALARM EVENT. COORDINATE WITH OTHER TRADES.
- PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
- ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLEING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.
- CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

AUDIO & VIDEO GENERAL NOTES

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT. THE INSTALLING CONTRACTOR'S LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS (TYPICAL). ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT.
- THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
- ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
- NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
- ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
- ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK. ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.
- THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLEING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLEING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING. THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.
- ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.
- EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS.
- CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
- CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLEING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
- ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES. WHEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
- THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLEING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLEING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
- CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ALL EXPOSED CABLEING OR CABLEING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
- 2" ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
- CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END.

SECURITY SYSTEMS LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	[]	INTERIOR VIDEO SURVEILLANCE CAMERA. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE CEILING TILE BRIDGE FOR ALL CAMERAS INSTALLED IN LAY-IN CEILING TILE. WALL MOUNTED CAMERAS INSTALLED AT 12" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING FOR WALL MOUNTED CAMERAS.
	[]	EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA INSTALLED AT 12" A.F.F. UNLESS OTHERWISE NOTED. PROVIDE ALL REQUISITE MOUNTING HARDWARE. PROVIDE SINGLE GANG BACK BOX WITH (1) 3/4" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING WITH PULL STRING.
	[]	360 DEGREE CEILING MOUNTED MOTION DETECTOR.
	[H]	INTRUSION DETECTION SYSTEM ARMI/DSARM KEYPAD WITH LOCKING VANDAL RESISTANT COVER.
	[R]	PANIC BUTTON TO BE TIED TO EMERGENCY GENERATOR.
	[]	INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS.
	[R]	ACCESS CONTROL PROXIMITY CARD READER. MOUNT AT 42" A.F.F. PROVIDE ALTRONIX LPD FOR EACH CARD READER.
	[R]	DOOR RELEASE BUTTON (TO BE CONNECTED TO DOOR INDICATED).
	[D]	DOOR CONTACT. PROVIDE SURFACE MOUNT CONTACT ON ROLL-UP DOORS. PROVIDE DOOR CONTACT ON ALL ROOF HATCHES.
	[]	CEILING MOUNTED GLASS BREAK DETECTOR.
	[]	WALL MOUNTED GLASS BREAK DETECTOR. MOUNT AT 12'-0" A.F.F.

- NOTE:
- EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
 - REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
 - COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

BDA/DAS SYSTEMS LEGEND

GROUP	SYMBOL	DESCRIPTION
DEVICES	[BDA]	BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER. CONTRACTOR SHALL CONNECT THE BDA SYSTEM TO THE FIRE ALARM SYSTEM FOR MONITORING PURPOSES. PROVIDE (2) DEDICATED CIRCUITS ON EMERGENCY POWER.
	[BAA]	BDA ANNUNCIATOR PANEL. PROVIDE FLUSH MOUNT SINGLE GANG BOX AT 54" A.F.F. WITH A 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING.

NOTE:

- EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON THE DRAWINGS. REFER TO THE SPECIFICATIONS AND THE TECHNOLOGY SYSTEMS GENERAL NOTES FOR INSTALLATION REQUIREMENTS.

TECHNOLOGY PLAN GENERAL NOTES

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
- CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT.
- THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
- THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
- SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSIE/IEEE, BICSI, AND THE NEC.
- ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
- ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
- ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12" INCHES OF SEPARATION FROM ALL POWER CABLES AND ALL OTHER LOW VOLTAGE CABLEING IN ANY PARALLEL OPEN WIRE RUN.
- ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
- ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES.
- ALL EXPOSED CABLEING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLEING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.
- NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
- CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLEING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE CORRIDOR ABOVE THE MAIN DOORWAY.
- ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES. WHEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.
- THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLEING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLEING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
- CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ALL EXPOSED CABLEING OR CABLEING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.
- 2" ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
- CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
- CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END.

SECURITY GENERAL NOTES

- ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE AVAILABLE. SECURITY CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT AND REMOTE POWER SUPPLIES (TYPICAL).
- A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL).
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM. PROVIDE ALL CONDUITS REQUIRED AT EXTERIOR DOORS ANNOTATED WITH DOOR CONTACTS OR CARD READERS TO ALLOW FOR INSTALLATION OF DOOR CONTACT POSITION SENSORS AND CARD READERS.
- SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE.
- ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4"
- PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS.
- ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING.
- NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.
- ALL LOW VOLTAGE CABLEING SHALL BE INDIVIDUALLY ROUTED TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN.
- ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED.
- ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
- CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION. PROVIDE ALL REQUIRED MODULES TO INTERFACE SENSORS.
- CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE. COORDINATE WITH OWNER FOR FINAL INSTALLATION LOCATION PRIOR TO ROUGH-IN. PROVIDE CAMERA FIELD OF VIEW ADJUSTMENTS. COORDINATE WITH OWNER.
- CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM TO PROVIDE THE FUNCTIONALITY OF THE BURGLAR ALARM BEING DISABLED ON AN AUTHORIZED CARD SWIPE AT ANY CARD READER.
- CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS. PROVIDE ALL REQUIRED MODULES, CABLEING AND LICENSES.
- PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.
- ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLEING IS EXPOSED. MC CABLE, ROMEX, SO CABLES OR OTHER METHODS ARE NOT ACCEPTABLE.

TECHNOLOGY LEGEND

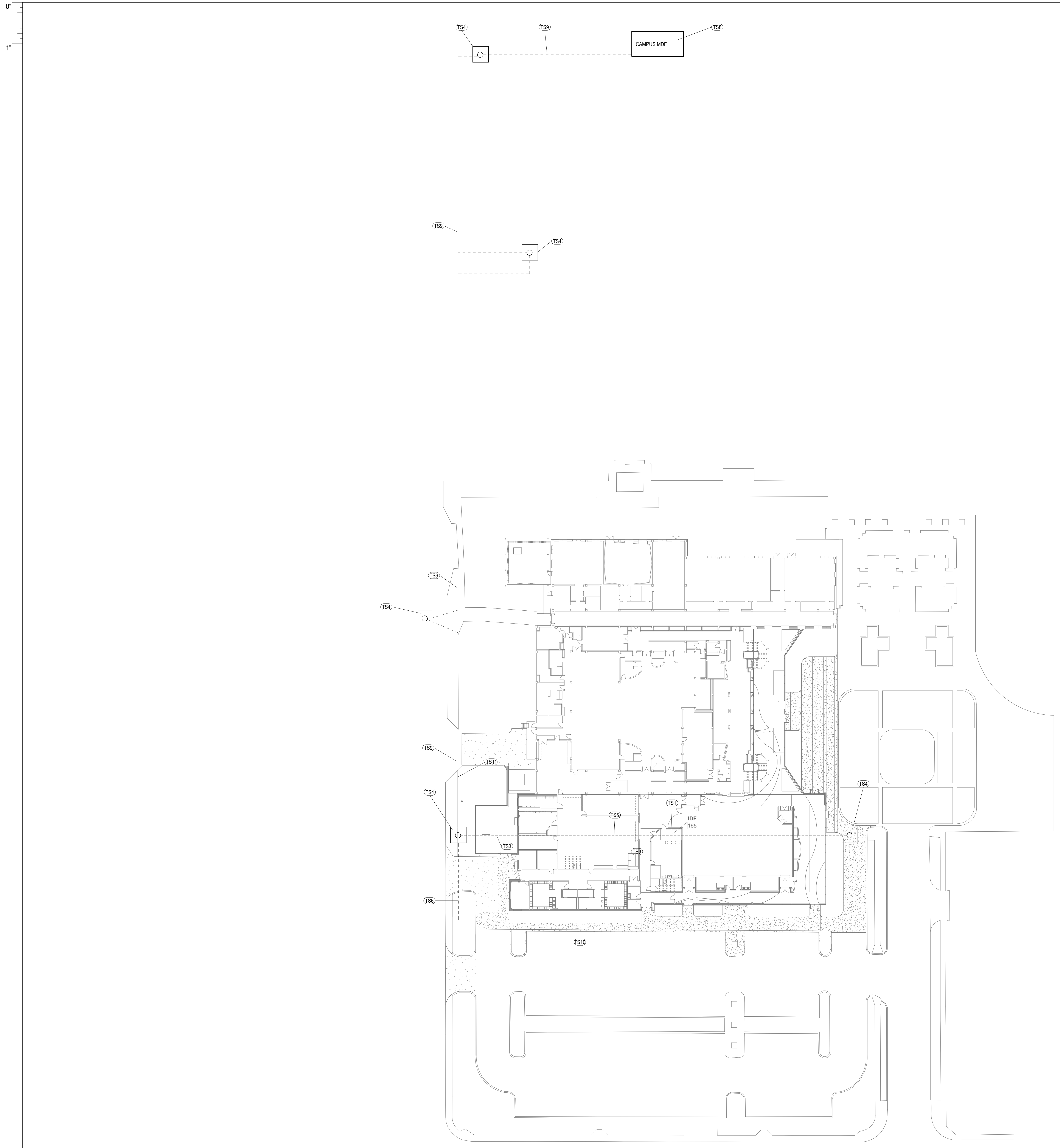
GROUP	SYMBOL	DESCRIPTION
DEVICES	[]	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACETS AT A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH 1" CONDUIT FROM THE BOX TO A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. DF INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION.
	[]	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR TO PROVIDE FACETS AT 12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE TRADES FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. DF INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION.
	[]	INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. DF INDICATES NUMBER OF DATA CABLES INSTALLED AT THIS LOCATION.
	PS	INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION. PROVIDE A RACK 260 BOX WITH 2 GANG REDUCER RING @ 18" A.F.F. WITH (1) 2" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT.
	'LCD'	INDICATES WALL MOUNTED LCD DISPLAY. CONTRACTOR TO PROVIDE AND INSTALL A RACK 260 BOX WITH 2 GANG MOUNT RING AT 60" A.F.F. WITH (1) 2" CONDUITS STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE ALL REQUIRED TERMINATION HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT.
	'W'	INDICATES THE LOCATION OF A WIRELESS MICROPHONE ANTENNA. PROVIDE WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS. ELECTRICAL CONTRACTOR SHALL PROVIDE 2 GANG EXTRA DEEP BOX. FLUSH MOUNT AT 12" A.F.F. UNLESS OTHERWISE NOTED. CONNECT (1) 1" CONDUIT ROUTED TO ASSOCIATED SOUND RACK.
	'H'	INDICATES THE LOCATION OF ASSISTED LISTENING ANTENNA. PROVIDE WIREGUARD ON ALL DEVICES INSTALLED IN GYMNASIUMS. ELECTRICAL CONTRACTOR SHALL PROVIDE 1 GANG BOX, FLUSH MOUNT AT 12" A.F.F. UNLESS OTHERWISE NOTED. CONNECT (1) 1" CONDUIT ROUTED TO ASSOCIATED SOUND RACK.
	'AP'	INDICATES WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) DATA CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT. WALL MOUNTED DEVICES SHALL BE INSTALLED AT 10" A.F.F.
	'K'	INDICATES THE LOCATION OF A KRONOS CLOCK. PROVIDE A FLUSH MOUNT SINGLE GANG BOX AT 18" A.F.F. WITH (1) 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF.
	'M'	INDICATES THE LOCATION OF MICROPHONE INPUT.
	'AX'	INDICATES THE LOCATION OF AUXILIARY AUDIO INPUT.
	'WMP'	INDICATES THE LOCATION OF A VIDEO PROJECTOR. 'W' INDICATES WALL MOUNT. 'C' INDICATES CEILING MOUNT. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE AND INSTALL A RACK 260 BOX WITH 2 GANG MOUNT RING WITH (1) 2" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING AND (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE 10' SERVICE LOOP AT PROJECTOR.
	'SB1'	INDICATES THE LOCATION OF SCOREBOARD CONTROL INTERFACE PLATE. INSTALL 1 GANG BOX AT 18" A.F.F. WITH (1) 1" CONDUIT CONNECTED TO BOTH BOXES. ELECTRICAL CONTRACTOR SHALL INSTALL (1) 20A CIRCUIT AT THIS LOCATION FOR SCORERS' TABLE POWER.
	'SB2'	INDICATES THE LOCATION OF A SCOREBOARD. INSTALL SINGLE GANG BOX AT APPROXIMATELY 12" A.F.F. WITH (1) 1" CONDUIT CONNECTED TO THE ASSOCIATED 'SB1' BOX. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 20A CIRCUIT AT THIS LOCATION FOR SCOREBOARD POWER.
	[]	INDICATES THE LOCATION OF AN IP SECURITY CAMERA. FOR WALL MOUNT AND EXTERIOR CAMERAS, ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE GANG BOX, FLUSH MOUNT AT 12" A.F.F. WITH 1" CONDUIT STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING. TECHNOLOGY CONTRACTOR SHALL PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF. PROVIDE A 10' SERVICE LOOP AT EACH END POINT. FOR EXTERIOR CAMERAS, PROVIDE AN RJ45 BISCUIT WITH A TERMINATED WHP ROUTED TO CAMERA LOCATION. PROVIDE ALL REQUIRED CONNECTORS AND DEVICES TO PROVIDE FULL FUNCTIONALITY OF CAMERA. PROPERLY SEAL BUILDING PENETRATIONS TO PREVENT EXTERIOR ELEMENTS FROM ENTERING BUILDING. SURFACE MOUNTED CONDUITS ARE NOT PERMITTED.
[]	INDICATES INTERCOM SPEAKER, FLUSH MOUNTED IN CEILING. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED. ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLEING.	
[]	INDICATES WALL MOUNTED INTERCOM SPEAKER. VERIFY WITH INTERCOM CONTRACTOR WHETHER SPEAKERS ARE IP SPEAKERS. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF EXCEPT AS NOTED. ALL CORRIDOR, PUBLIC SPACE AND EXTERIOR SPEAKERS ARE CONVENTIONAL 25VOLT AND DO NOT REQUIRE A DATA DROP. COORDINATE WITH INTERCOM CONTRACTOR PRIOR TO CABLEING.	
[]	INDICATES WALL MOUNTED LOCK. VERIFY WITH INTERCOM CONTRACTOR WHETHER BOX ARE IP. IF SO, PROVIDE (1) DATA CABLE ROUTED TO NEAREST IDF. INCLUDES DOUBLE FACE LOCKS.	
'CEN'	INDICATES THE APPROXIMATE LOCATION OF A CEILING ENCLOSURE. REFER TO SPECIFICATIONS FOR THE ENCLOSURE MODEL NUMBER AND DEVICES TO BE HOUSED INSIDE THE ENCLOSURE. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 120V/20A DEDICATED CIRCUIT.	
[]	INDICATES WALL MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING @ 12" AFF WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.	
[]	INDICATES CEILING MOUNTED MICROPHONE. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.	
[]	INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.	
[]	INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER. PROVIDE A 2 GANG DEEP BOX WITH 1 GANG REDUCER RING INSTALLED @ 12" ABOVE CEILING WITH (1) 3/4" CONDUIT ROUTED AND CONNECTED TO THE ASSOCIATED LOCAL SOUND RACK.	

- NOTE:
- EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.
 - REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS.
 - COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
 - ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.



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ISSUE FOR CONSTRUCTION



1 SITE TECHNOLOGY PLAN
 SCALE: 1" = 30'-0"

TECHNOLOGY KEYNOTES

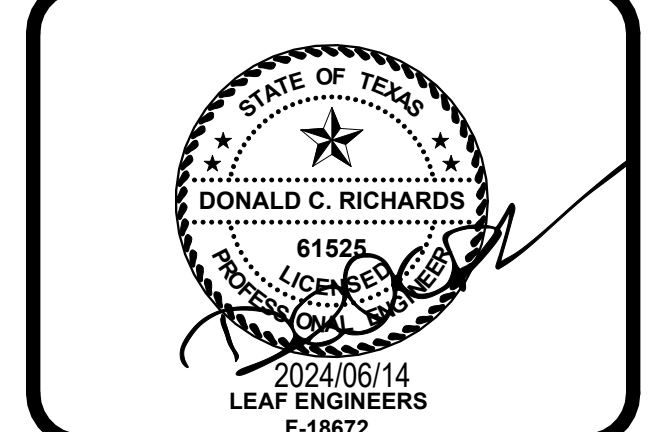
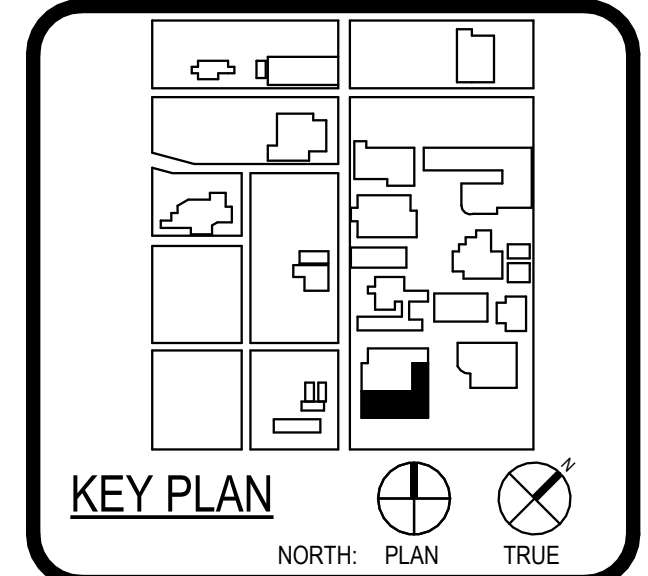
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUB EVENTLY AT +8 A.F.F. TO ENTER THE NEW MDF/IDF.
- TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4 B.F.G. PROVIDE TWO (2) 3-CELL MAXCELL INNERDUCT IN EACH CONDUIT. THE UNDERGROUND CONDUIT PATHWAY WILL BE INSTALLED BY THE DIV 26 CONTRACTOR.
- TS4 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING MANHOLE.
- TS5 INDICATES THE APPROXIMATE LOCATION OF AN EXISTING CONDUIT PATHWAY TO BE REMOVED. CONTRACTOR SHALL PULL BACK EXISTING FIBER FROM THE EXISTING MANHOLE ALL THE WAY BACK TO THE PREVIOUS BOX. FIBER TO BE RE-USED IF POSSIBLE. CONTRACTOR WILL RE-ROUTE THE EXISTING FIBER AND FUSE SPLICED AT THE SAME BOX IT WAS PULLED FROM THE BEGINNING JUST FROM A DIFFERENT PATHWAY. CONTRACTOR SHALL PAY FOR ANY DAMAGE TO EXISTING FIBER.
- TS6 INDICATES THE APPROXIMATE LOCATION FOR THE NEW PATHWAY FOR THE EXISTING FIBER TO BE RE-ROUTED TO MAINTAIN THE SERVICE UP AND RUNNING. CONTRACTOR TO FIELD VERIFY THE AMOUNT OF CONDUIT NEEDED FOR THIS NEW ROUTE TO WORK AS THE PREVIOUS.
- TS8 INDICATES THE APPROXIMATE LOCATION OF THE EXISTING CAMPUS MDF. CONDUITS SHALL BE STUBBED EVENTLY AT +8 A.F.F. TO ENTER THE MDF/IDF.
- TS9 CONTRACTOR TO PULL A NEW ONE (1) 24-STRAND SINGLE MODE FIBER OUTDOOR/ARMORED-RATED FROM THE EXISTING CAMPUS MDF INTO THE NEW BLACK BOX BUILDING IDF. PROVIDE TWO (2) 3-CELL MAXCELL INNERDUCT IN EACH CONDUIT.
- TS10 CONTRACTOR TO FIELD VERIFY THE EXISTING PATHWAY AND REROUTE THE EXISTING FIBER INTO THE NEW PATHWAY PRIOR TO ANY CONSTRUCTION TO MAINTAIN THE NETWORK ALIVE. CONTRACTOR TO LABEL ALL SPOOLS IN THE MANHOLE ACCORDING TO ACC STANDARDS AND REMOVED ANY NON-WORKING CABLING ALL THE WAY TO THE CAMPUS MDF PATHWAY.
- TS11 CONTRACTOR TO REMOVE ALL NON-WORKING LOW VOLTAGE CABLE ALL THE WAY TO THE CAMPUS MDF DURING THE NEW FIBER PULLING FOR THIS PROJECT.



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CONSULTANT	LANDSCAPE 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608
CONSULTANT	LANDSCAPE GROUP 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608
CONSULTANT	LUNY & FRANK ENGINEERING 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608
CONSULTANT	MECHANICAL 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608
CONSULTANT	ELECTRICAL 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608
CONSULTANT	MECHANICAL 2025 210-829-0123 P. 210-829-5578 F TX Firm BR 1608



WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	2024/06/14	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
 BUILDING NUMBER 1

SITE TECHNOLOGY PLAN

TS-101