

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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ARCHITECT
PBK ARCHITECTS, INC
601N.W.LOOP 410, Suite 400
San Antonio, TX 78216
T 210-829-0123

ASSOCIATE ARCHITECT
B&A ARCHITECTS
222 Ridgcrest Dr
San Antonio, TX 78209
T 210-829-1898

CIVIL ENGINEER
GESSNER
401 W. 26th St, Ste 3
Bryan, TX 77803
T 979-680-8840

STRUCTURAL ENGINEER
LUNDY & FRANKE ENGINEERING
549 Helmer
San Antonio, TX 78232
T 210-979-7900

LANDSCAPE ARCHITECT
EDGELAND GROUP
11 Greenway Plaza, 15th Floor
Houston, TX 77046
T 713-460-0988

MEP ENGINEER
LEAF
601N.W.LOOP 410, Suite 400
San Antonio, TX 78216
T 210-829-0123

THEATER CONSULTANT
WJHW
12175 Network Blvd., Suite 150
San Antonio, TX, 78249
T 210-561-9800

ENVELOPE CONSULTANT
BEAM PROFESSIONALS
601N.W.LOOP 410, Suite 400
San Antonio, TX 78216
T 210-829-0123

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Table with columns: SHEET NUMBER, SHEET NAME. Lists architectural, mechanical, and plumbing details and schedules.

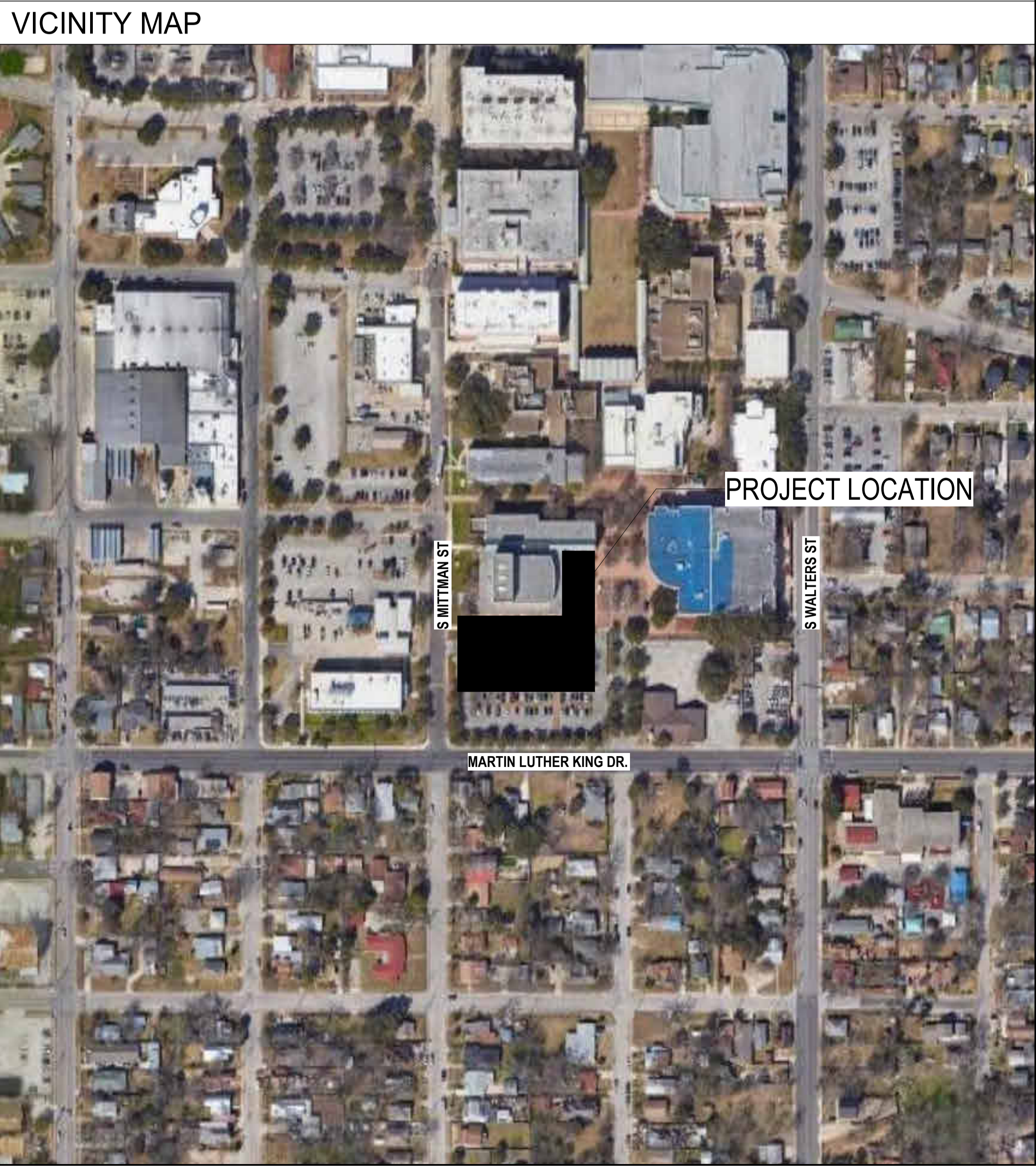
ADD ALTERNATES. List of alternate items and descriptions for pricing and removal.

ABBREVIATIONS AND LEGEND KEYS. Comprehensive list of abbreviations for architectural, mechanical, and plumbing elements.

PROJECT GRAPHIC REFERENCES. Legend for symbols used in project drawings, including symbols for north arrows, levels, and materials.

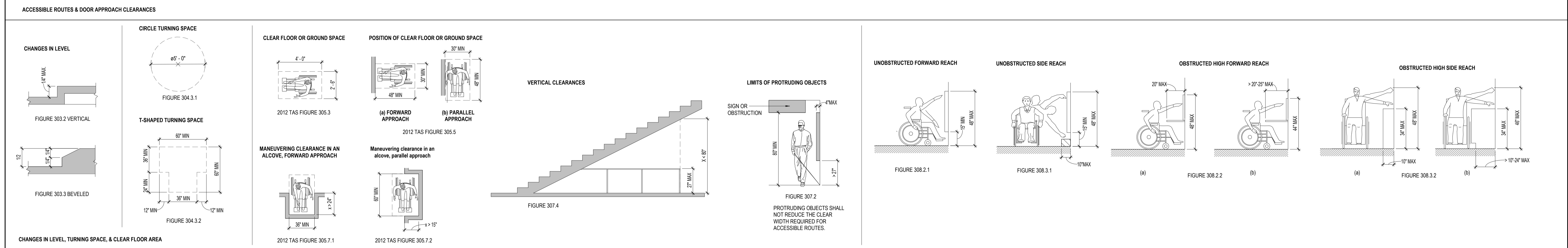
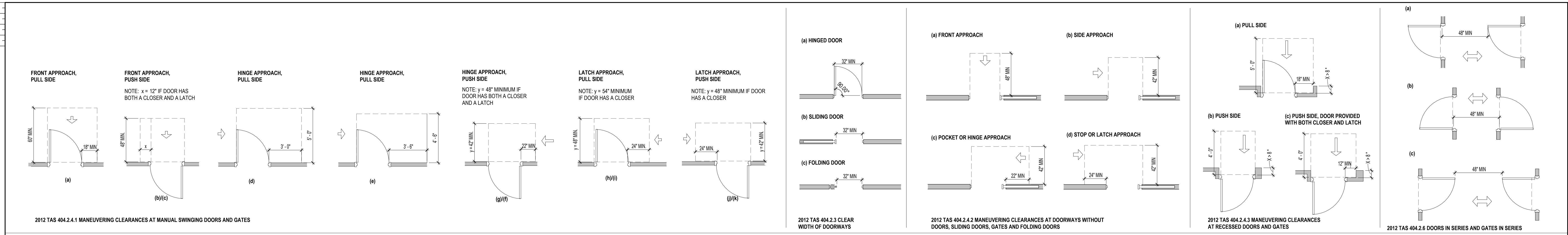
GENERAL NOTES. Detailed list of construction notes covering contract documents, safety, materials, and construction procedures.

PROJECT GRAPHIC REFERENCES. Legend for symbols used in project drawings, including symbols for materials, construction types, and references.

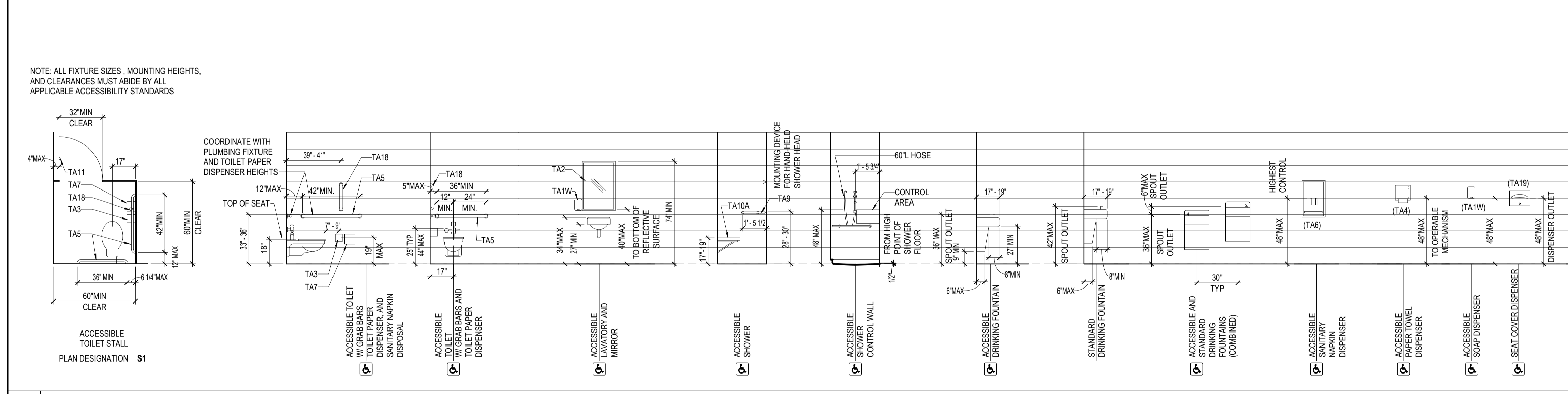
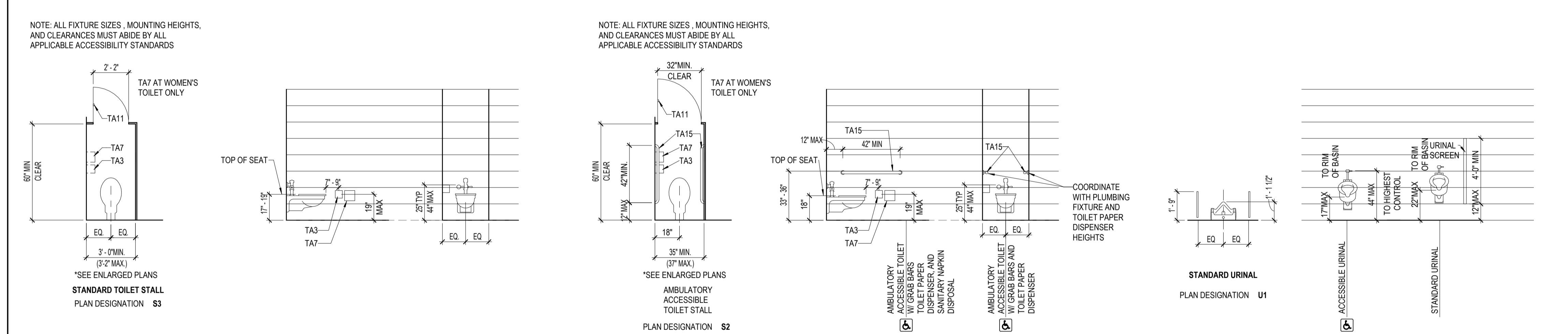


Right side of the page containing logos for PBK Architects, WFAC Black Box Addition PKG 1, Alamo Colleges, and a registration seal.

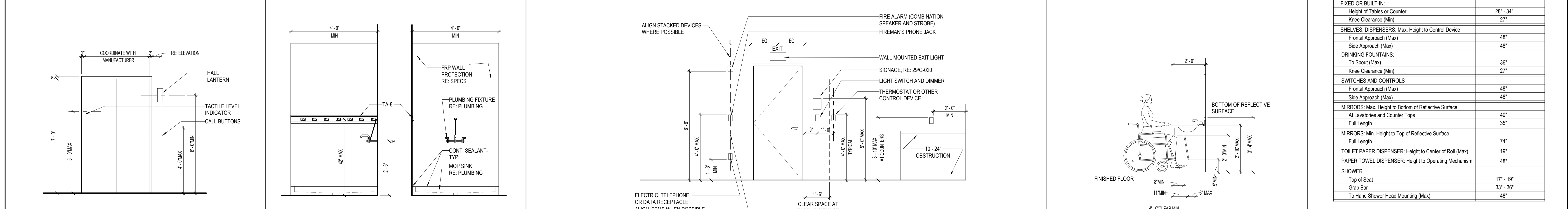
GENERAL PROJECT INFORMATION table with fields for Client (Alamo Colleges), Date (2024/06/14), Project Number (230462), and Building Number (1).



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	
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	
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	
At Lavatories and Counter Tops	40"
Full Length	35"
MIRRORS: Min. Height to Top of Reflective Surface	
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"

This document is for interim review only.

ARCHITECT PBK Architects, Inc.

WFAC Black Box Addition PKG 1

ALAMO COLLEGES



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

ISSUE FOR CONSTRUCTION
BUILDING NUMBER: 1

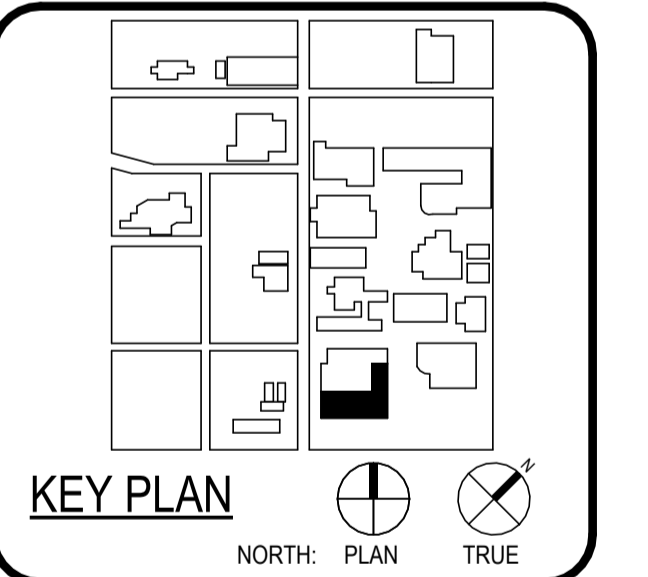
TEXAS ACCESSIBILITY STANDARDS



ARCHITECT SAN ANTONIO
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1808

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

ALAMO COLLEGES
ST. PHILIP'S COLLEGE



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

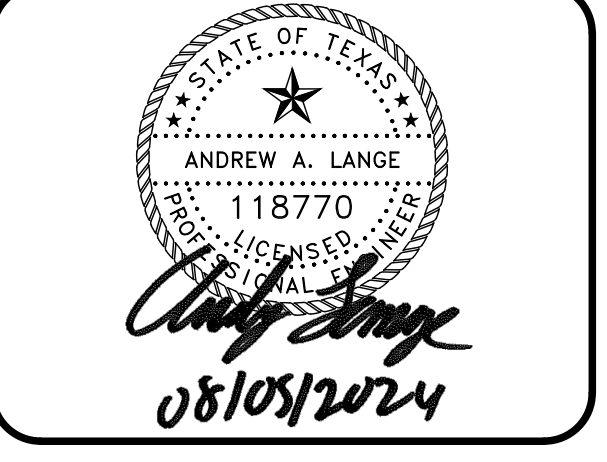
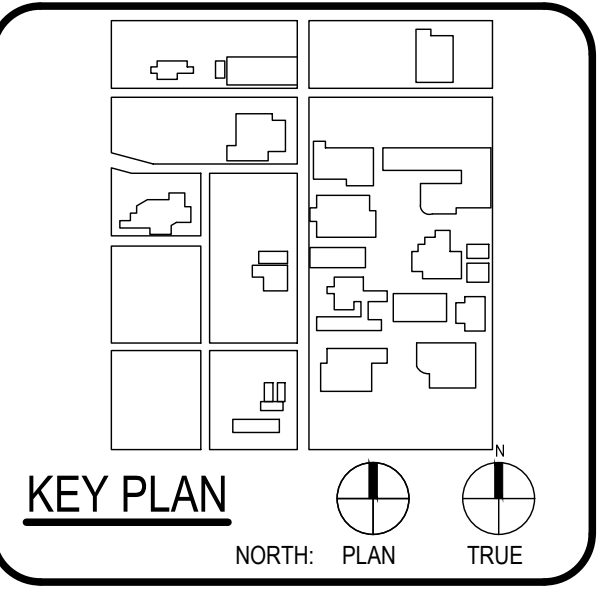
ISSUE FOR CONSTRUCTION
BUILDING NUMBER: 1

TEXAS ACCESSIBILITY STANDARDS



ARCHITECT: SAN ANTONIO PBK Architects, Inc.
 601 N.W. Loop 410, Suite 400
 San Antonio, TX 78216
 210-820-0123 P
 210-829-0578 F
 TX Firm BR 1608

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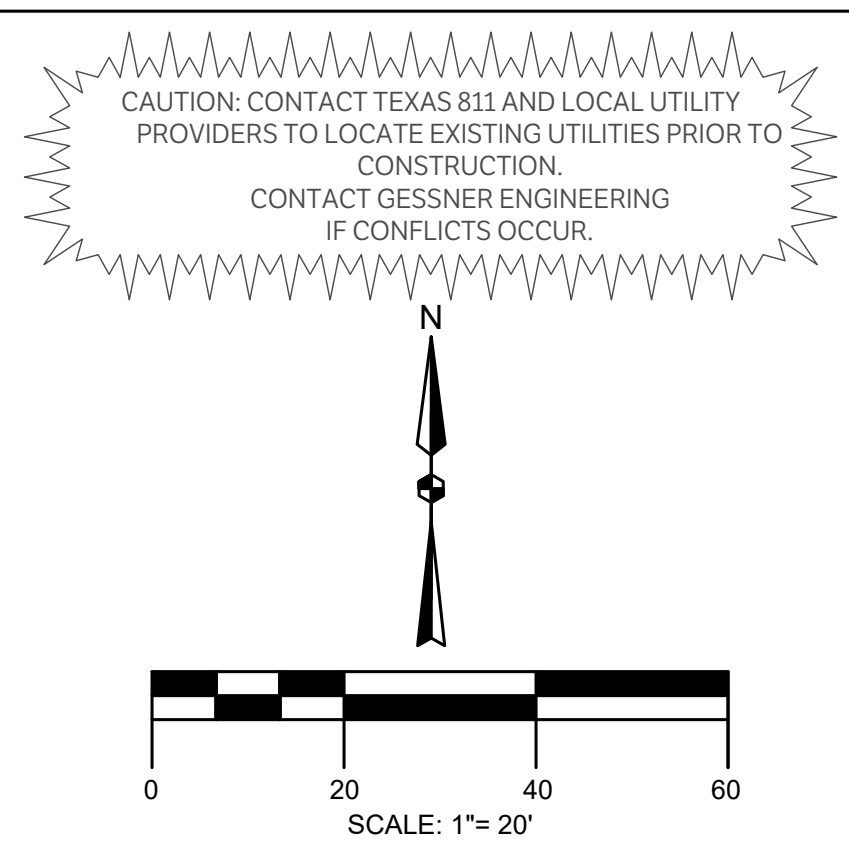


CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT
 BUILDING NUMBER

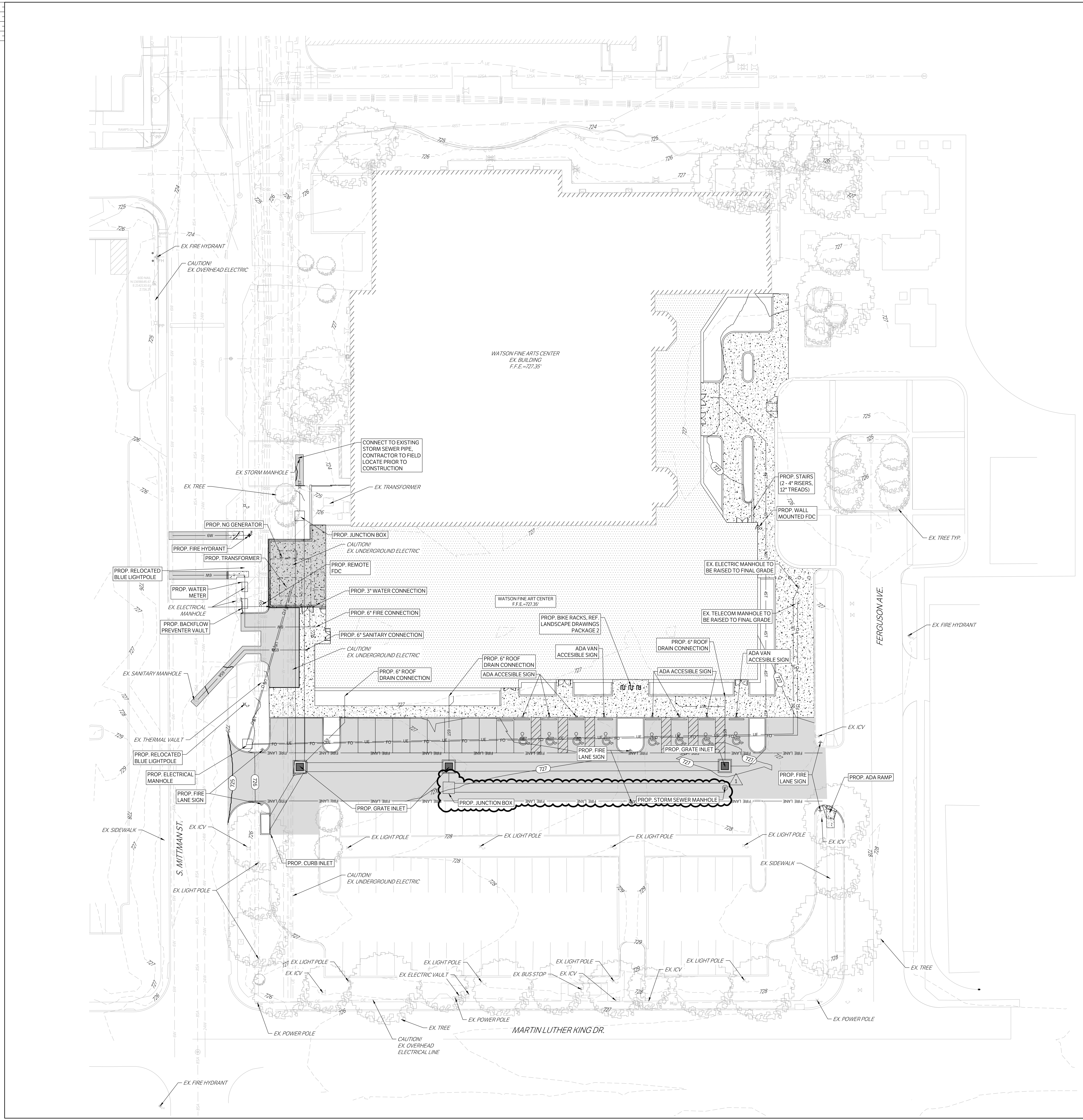
SITE PLAN

C200



Sheet Grids Template
 Z400
 FOR BLUEBAM LABELING OOR

ISSUE FOR PERMIT



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]	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

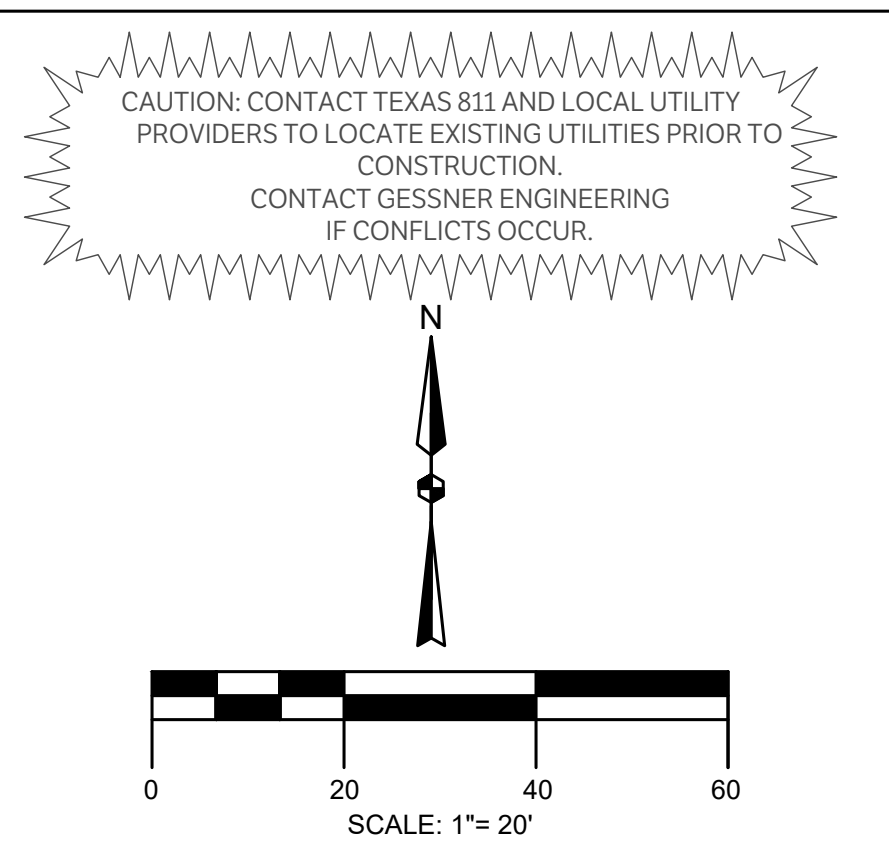
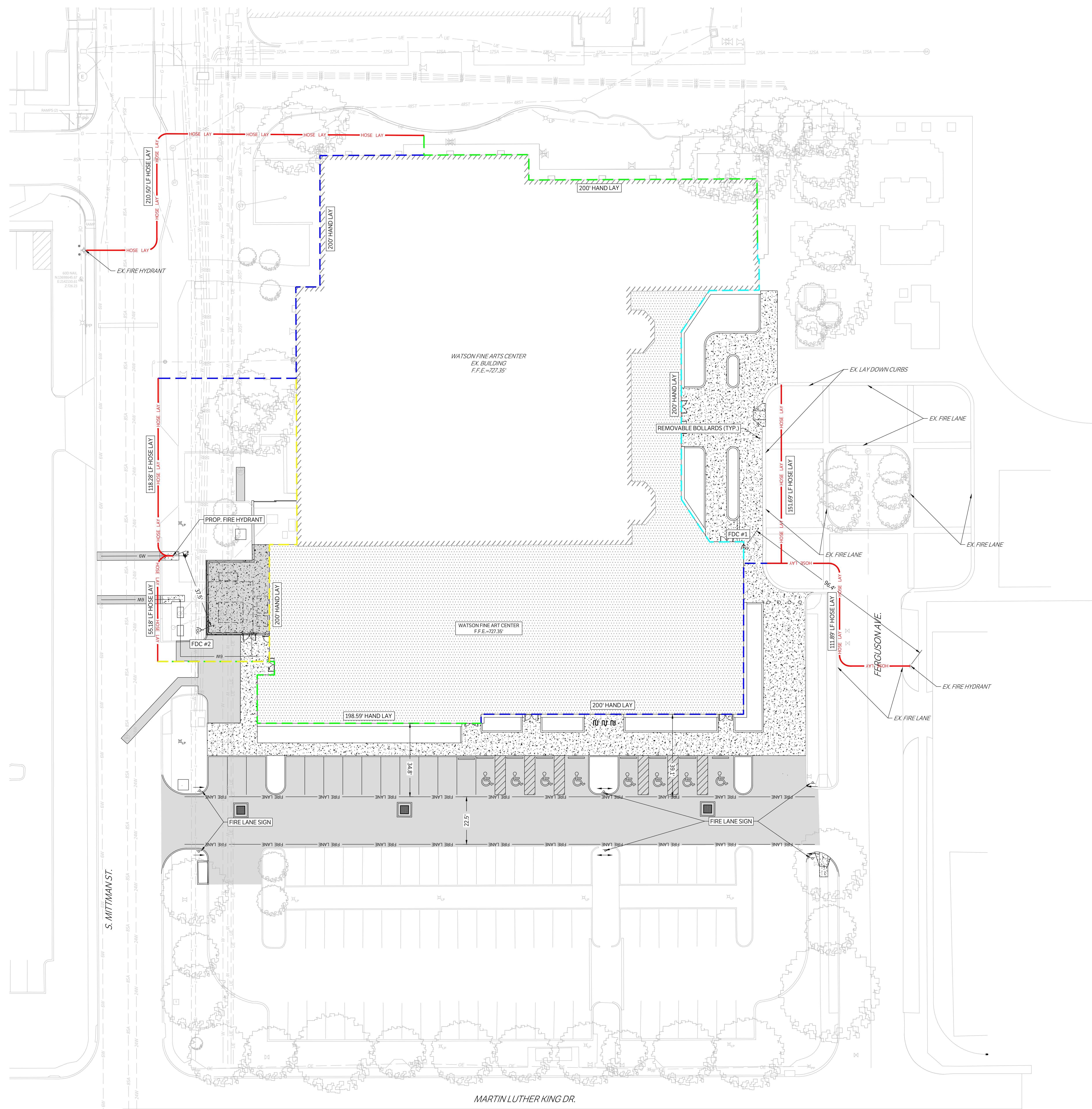
PARKING TABLE	
ITEM	QUANTITY
EXISTING PARKING SPOTS	125
EXISTING ADA SPOTS	9
REQUIRED ADA SPOTS	4
PROPOSED PARKING SPOTS	81
PROPOSED ADA SPOTS	8

IMPERVIOUS COVER COMPARISON			
	PERVIOUS	IMPERVIOUS	TOTAL
EXISTING	15497.11	66628.36	82125.47
PROPOSED	6426.58	75698.89	82125.47
IMPERVIOUS INCREASE		9070.53	

CHECKED BY: SH & AL
 DRAWN BY: JC

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Sheet Grids Template
2400
FOR BLUEBAM LABELING CORR.



LEGEND

	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT
	PROPOSED 4" CONCRETE SIDEWALK
	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
	EX. PROP. DATA/TELECOM
	EX. PROP. UNDERGROUND ELECTRIC
	EX. PROP. FIBER OPTIC
	EX. PROP. OVERHEAD ELECTRIC
	EX. PROP. FIRE HYDRANT
	EX. PROP. WATER METER
	EX. PROP. GATE VALVE
	EX. PROP. FIRE DEPARTMENT CONNECTION
	EX. PROP. POST INDICATOR VALVE
	PROP. HOSE LAY
	EX. PROP. SANITARY SEWER MANHOLE
	EX. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	PROPOSED UTILITY EASEMENT

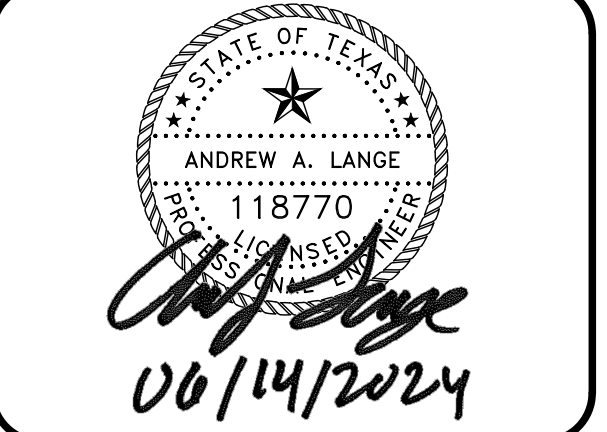
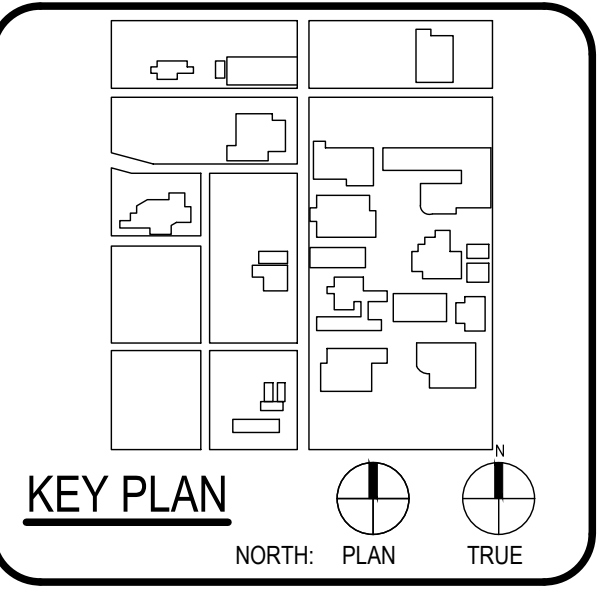
FIRE PROTECTION INFO

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

WFAC Black Box Addition PKG 1



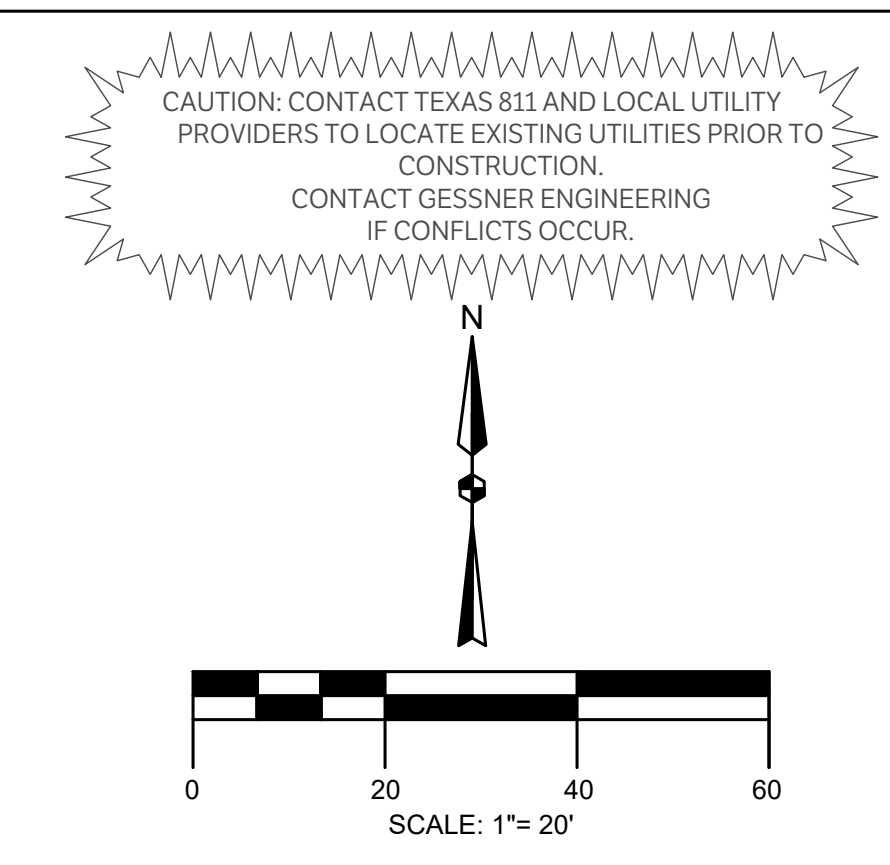
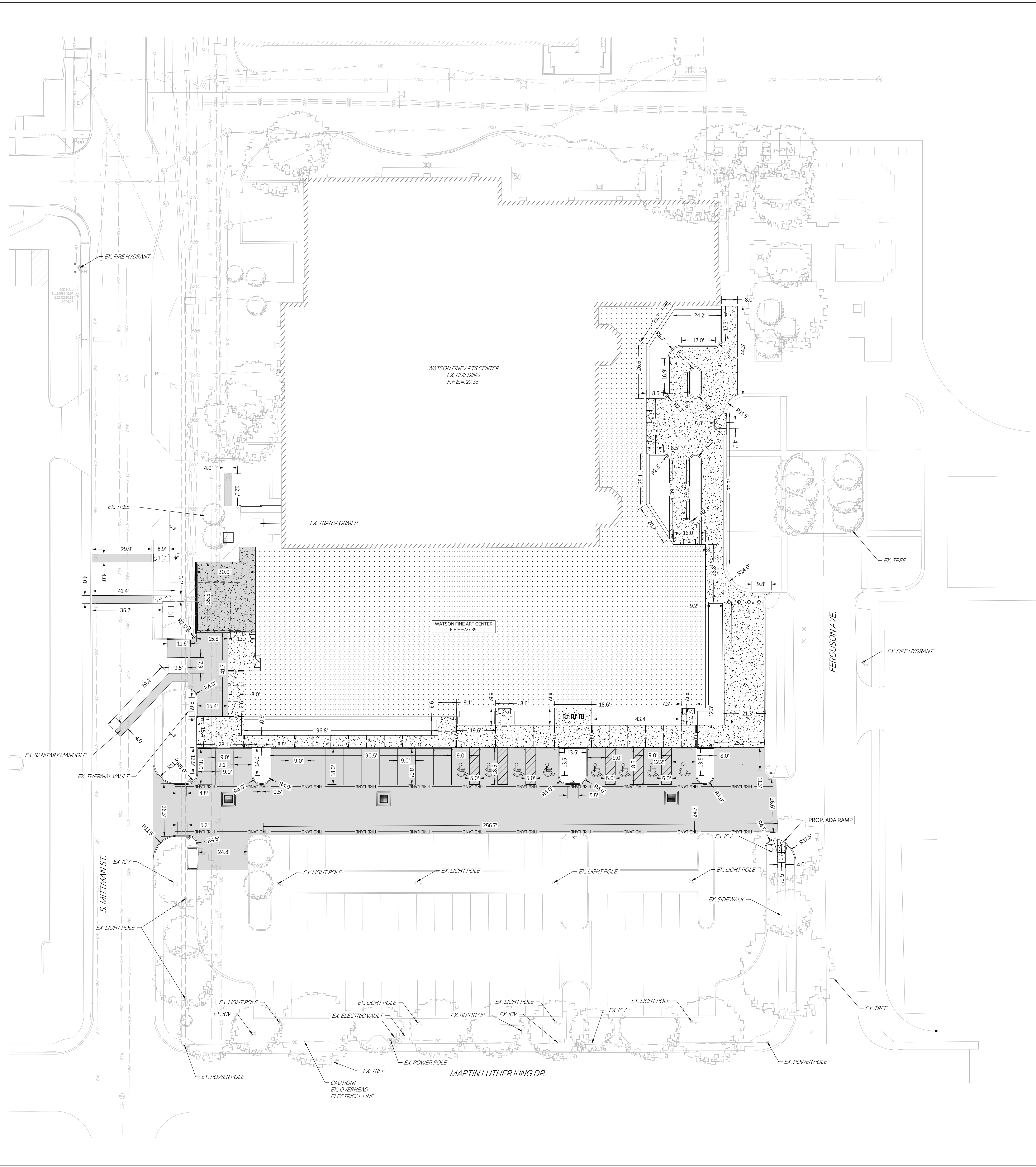
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

SITE FIRE PLAN

C201

CHECKED BY: SH & AL
DRAWN BY: JC

ISSUE FOR CONSTRUCTION



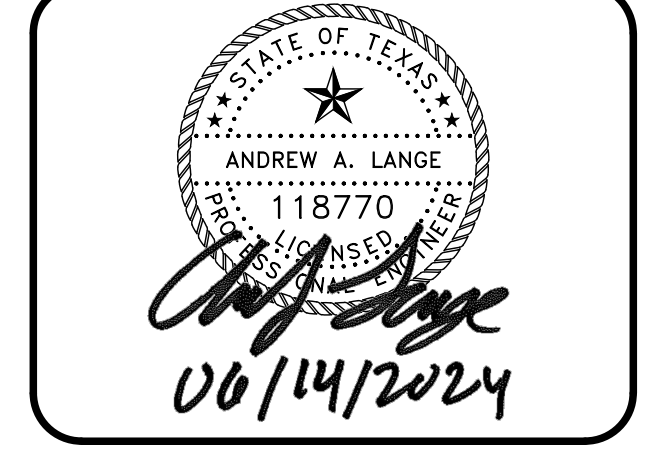
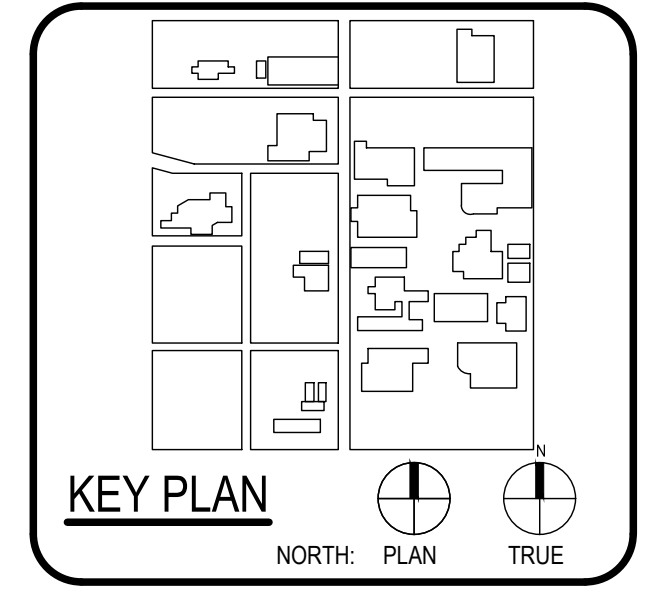
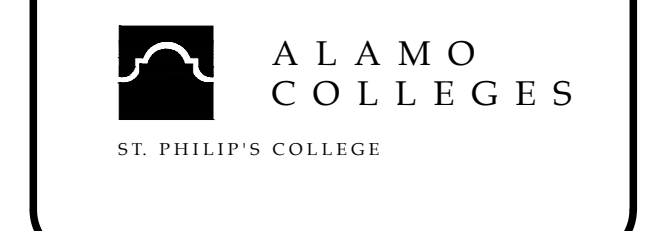
LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
	PROPOSED 4" CONCRETE SIDEWALK
	PROPOSED BUILDING
	EXISTING PAVEMENT EDGE
	PROPERTY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
	EXISTING CONTOURS
	PROPOSED CONTOURS
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	EX. IRRIGATION CONTROL VALVE
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	PROP. HOSE LAY
	EX. PROP. SANITARY SEWER MANHOLE
	EX. PROP. SANITARY SEWER CLEANOUT
	EX. STORM SEWER MANHOLE
	PROP. STORM SEWER CURB INLET
	EX. PROP. LIGHT POLE
	PROPOSED PUBLIC ACCESS EASEMENT
	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
1701 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1711 BRUNNEN LINDY & HARRIS ENGINEERING 1711 BRUNNEN P&J 1711 BRUNNEN MEYER PROFESSIONALS 1711 BRUNNEN MEYER 1711 BRUNNEN	

WFAC Black Box Addition PKG 1

600 S. Mittman St.
San Antonio, TX 78203
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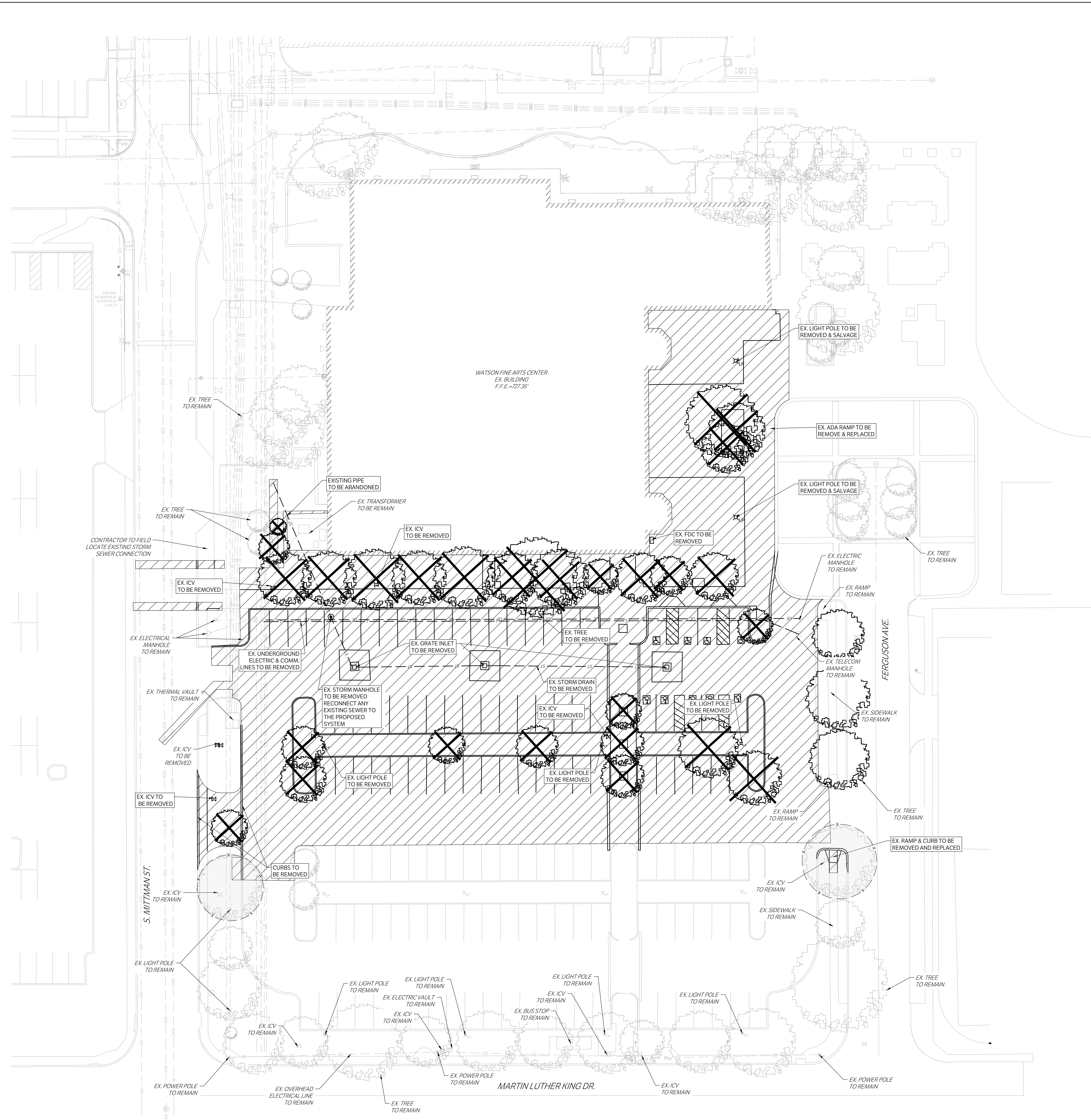
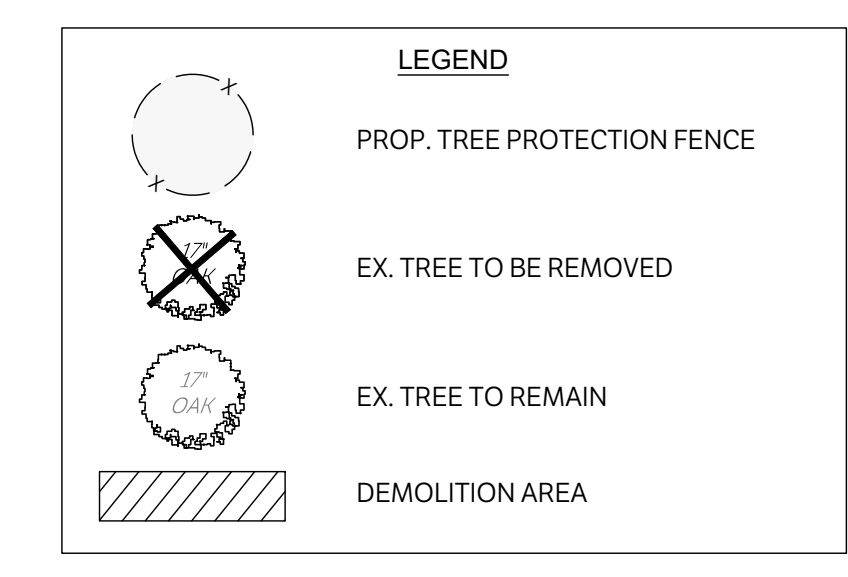
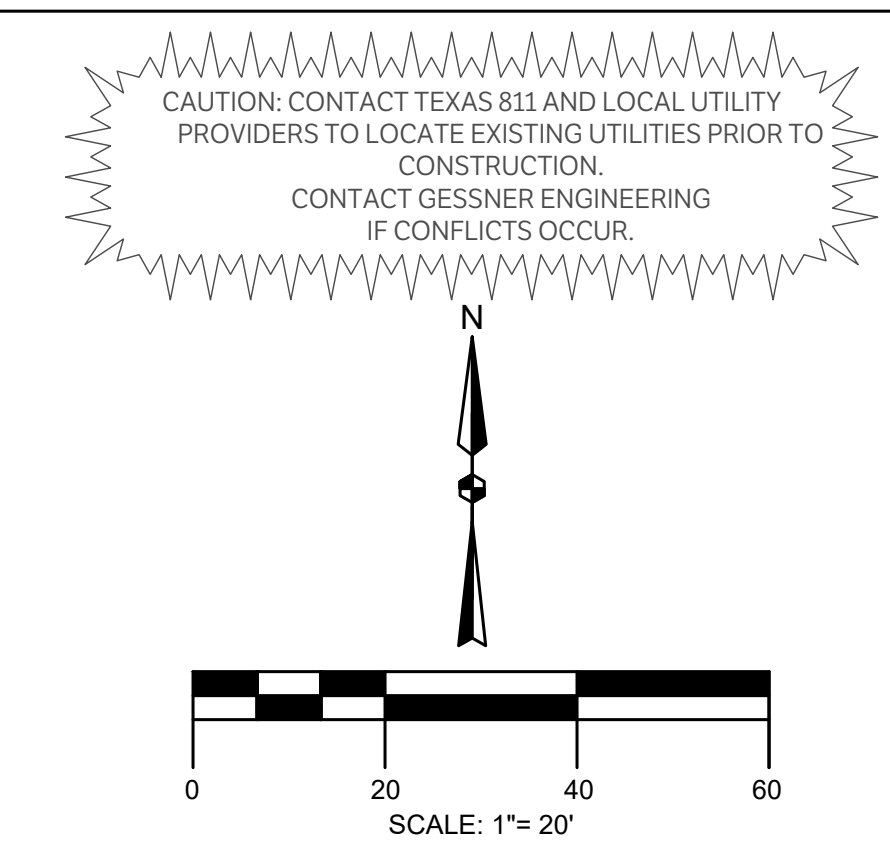
CLIENT	Alamo Colleges	
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DRAWING HISTORY		
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DIMENSION CONTROL & PAVING PLAN

C202

ISSUE FOR CONSTRUCTION

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2400
FOR BLUEBERRY LABELING.COR.

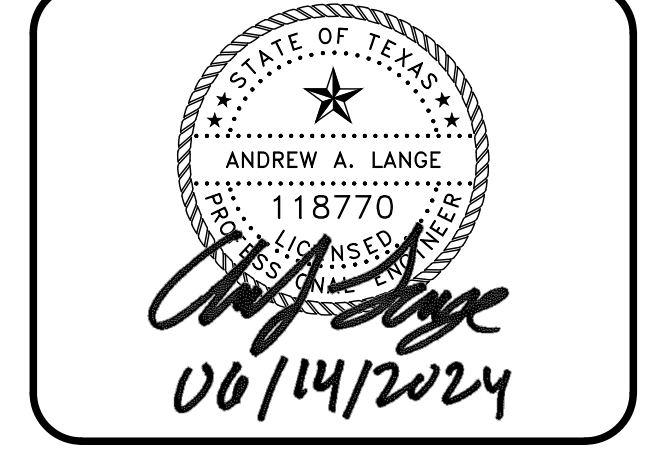
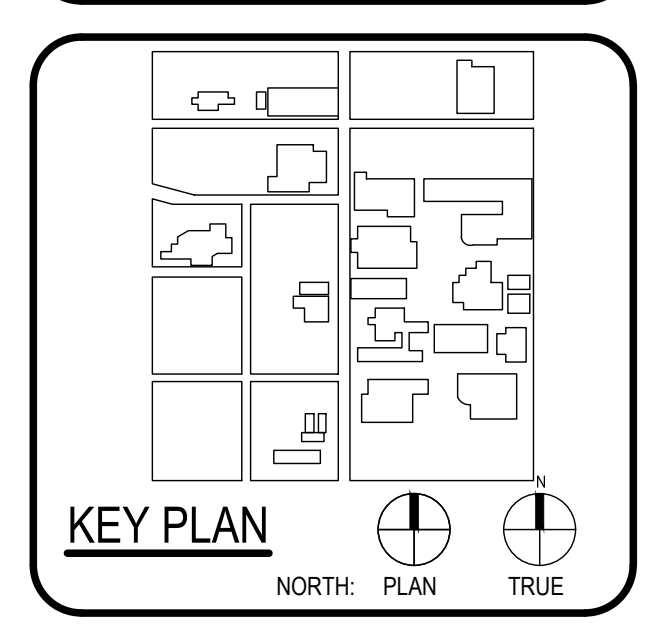
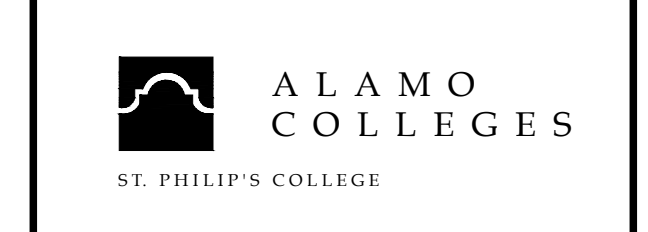


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SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
2101 BRASS CELEBRITY LANDSCAPE ROSE AND DESIGN 1111 W. 14TH ST. SAN ANTONIO, TX 78205 LINDY & TRAVIS ENGINEERING 1111 W. 14TH ST. SAN ANTONIO, TX 78205 PROLOGUE MEAN PROFESSIONALS 1111 W. 14TH ST. SAN ANTONIO, TX 78205 T. 210.841.8600	

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600 S Miltman St.
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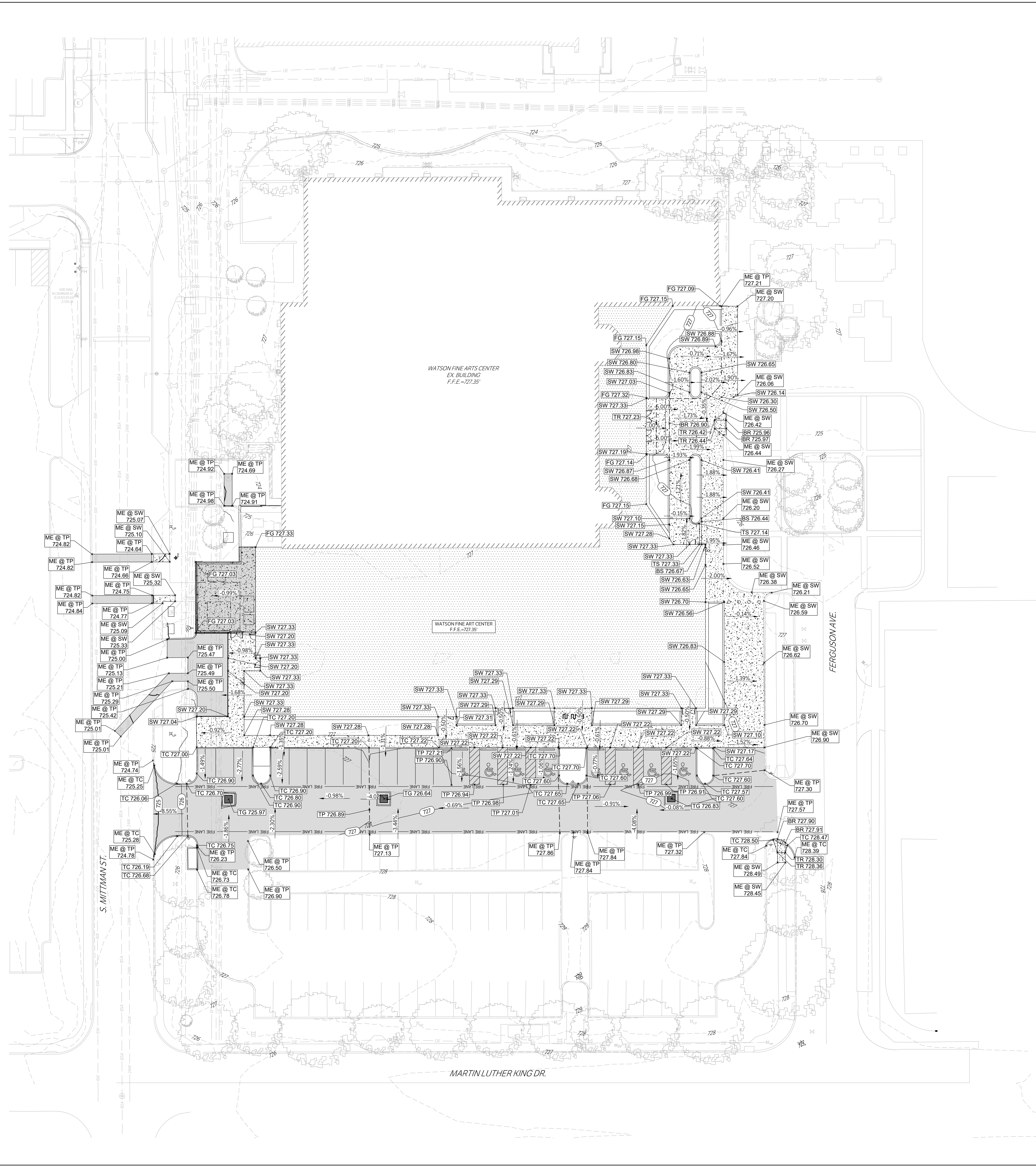
BUILDING NUMBER

EXISTING CONDITIONS & DEMO PLAN

C300

CHECKED BY: SH & AL
DRAWN BY: JC

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 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

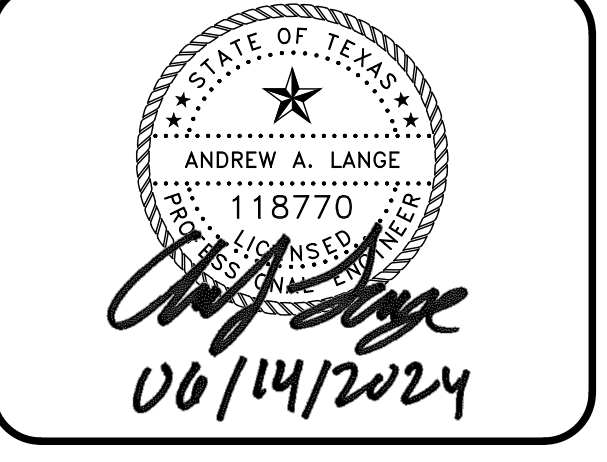
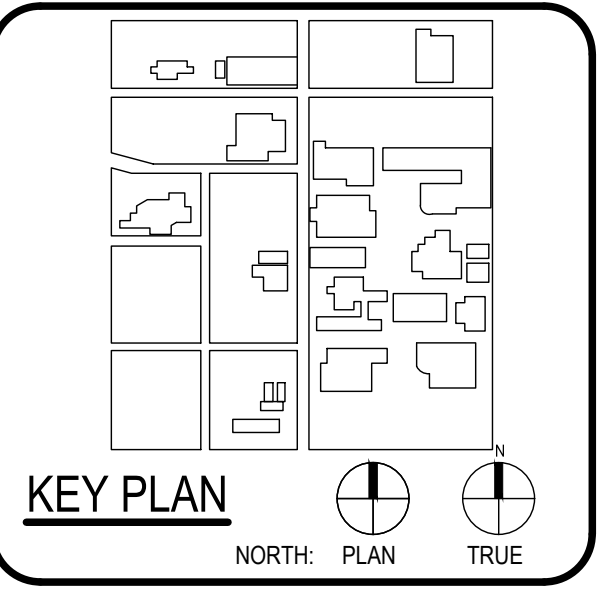
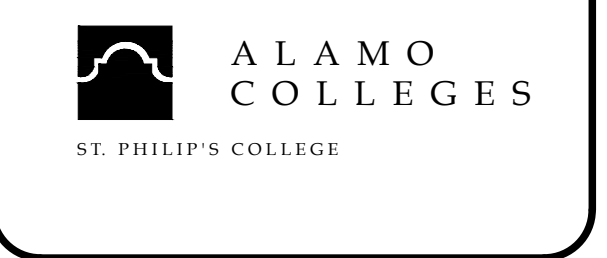


ARCHITECT SAN ANTONIO PBK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-829-0123 P
210-829-0578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT BA & ARCHITECTS
1225 W. 15th St.
San Antonio, TX 78205
210-461-9999
LUNY & HARRIS ENGINEERING
1111 W. 15th St.
San Antonio, TX 78205
210-461-9999
MEASUREMENTS
1111 W. 15th St.
San Antonio, TX 78205
210-461-9999

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		
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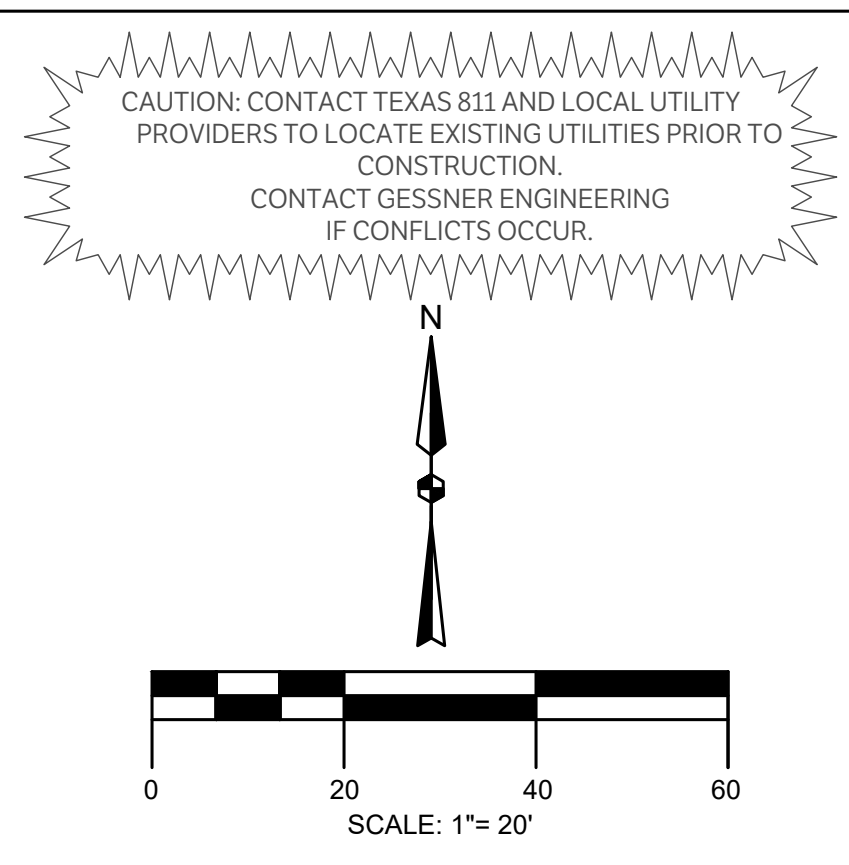
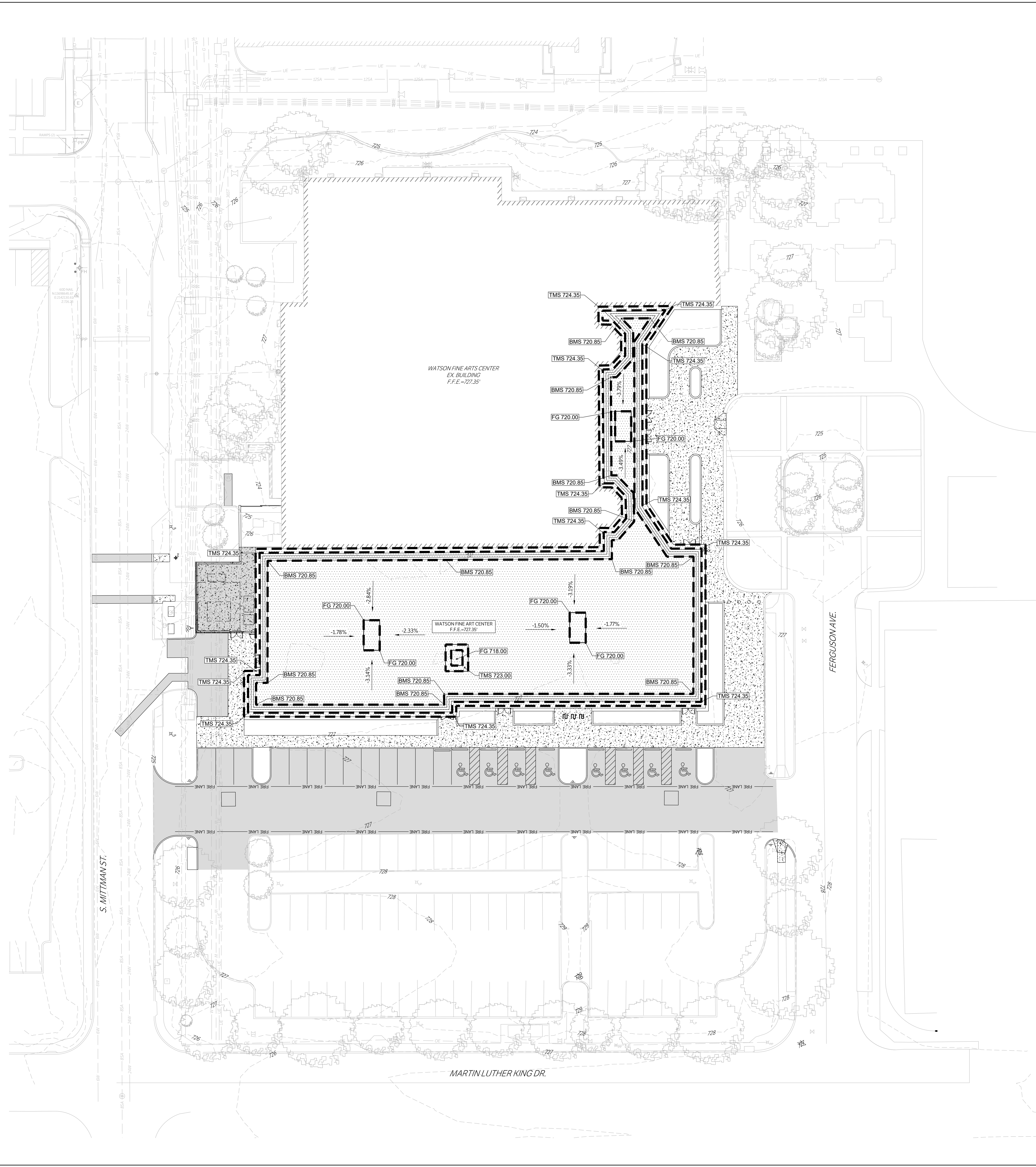
ISSUE FOR CONSTRUCTION

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
- FL PROPOSED FLOWLINE ELEVATION
- G PROPOSED GUTTER FLOWLINE ELEVATION
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- 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 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

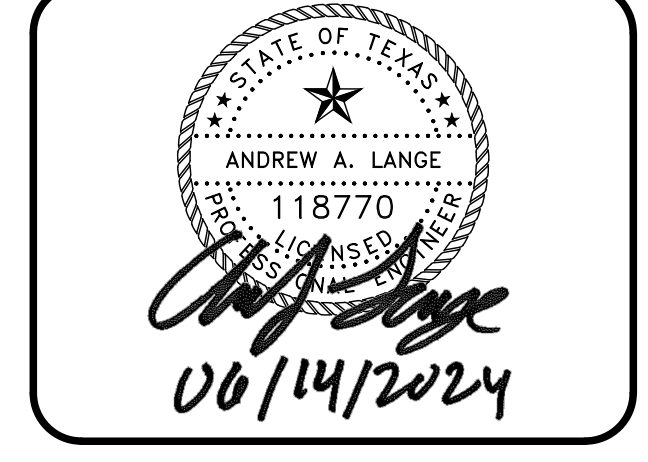
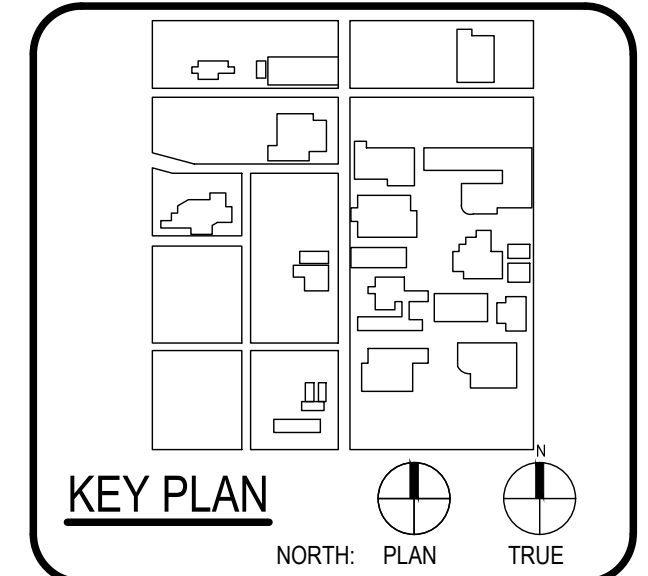
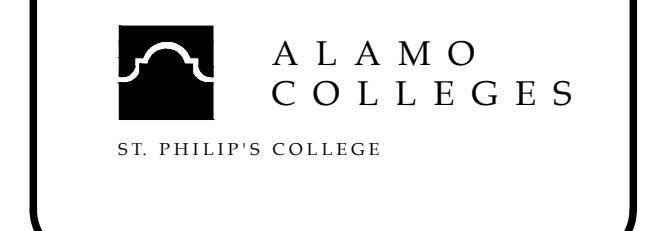


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San Antonio, TX 78216
210-829-0123 P
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TX Firm BR 1608

ASSOCIATE ARCHITECT BA & ARCHITECTS
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75202
214-760-0000
LINDY & HARRIS ENGINEERING
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75202
214-760-0000
PROVIDOR
MEAN PROFESSIONALS
1111 N. LOOP WEST
SUITE 1000
DALLAS, TEXAS 75202

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

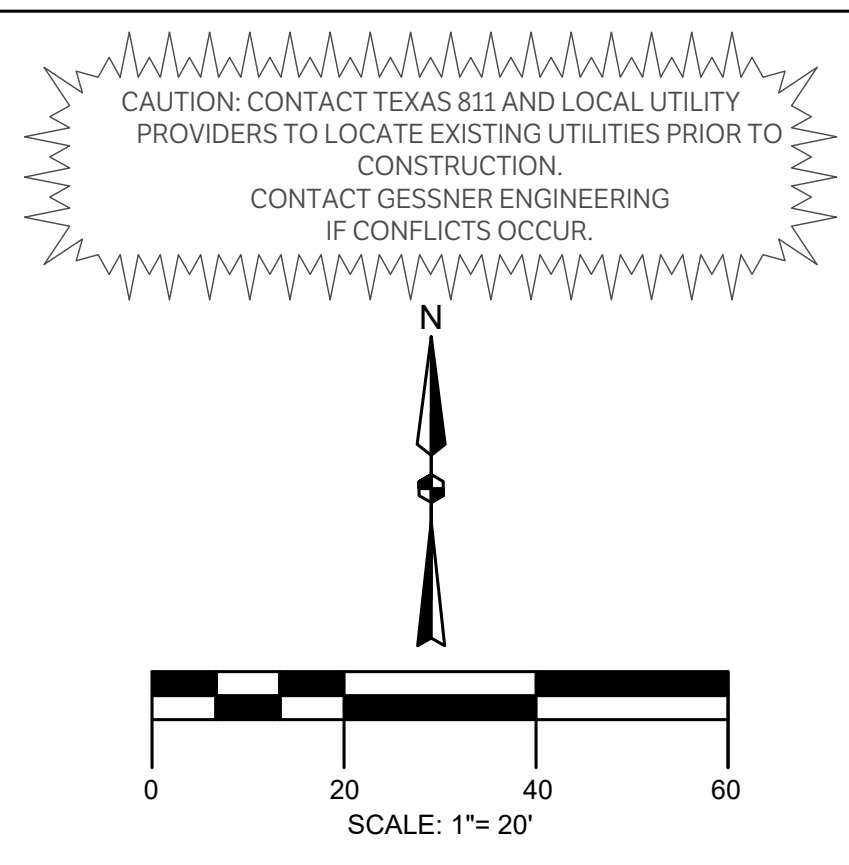
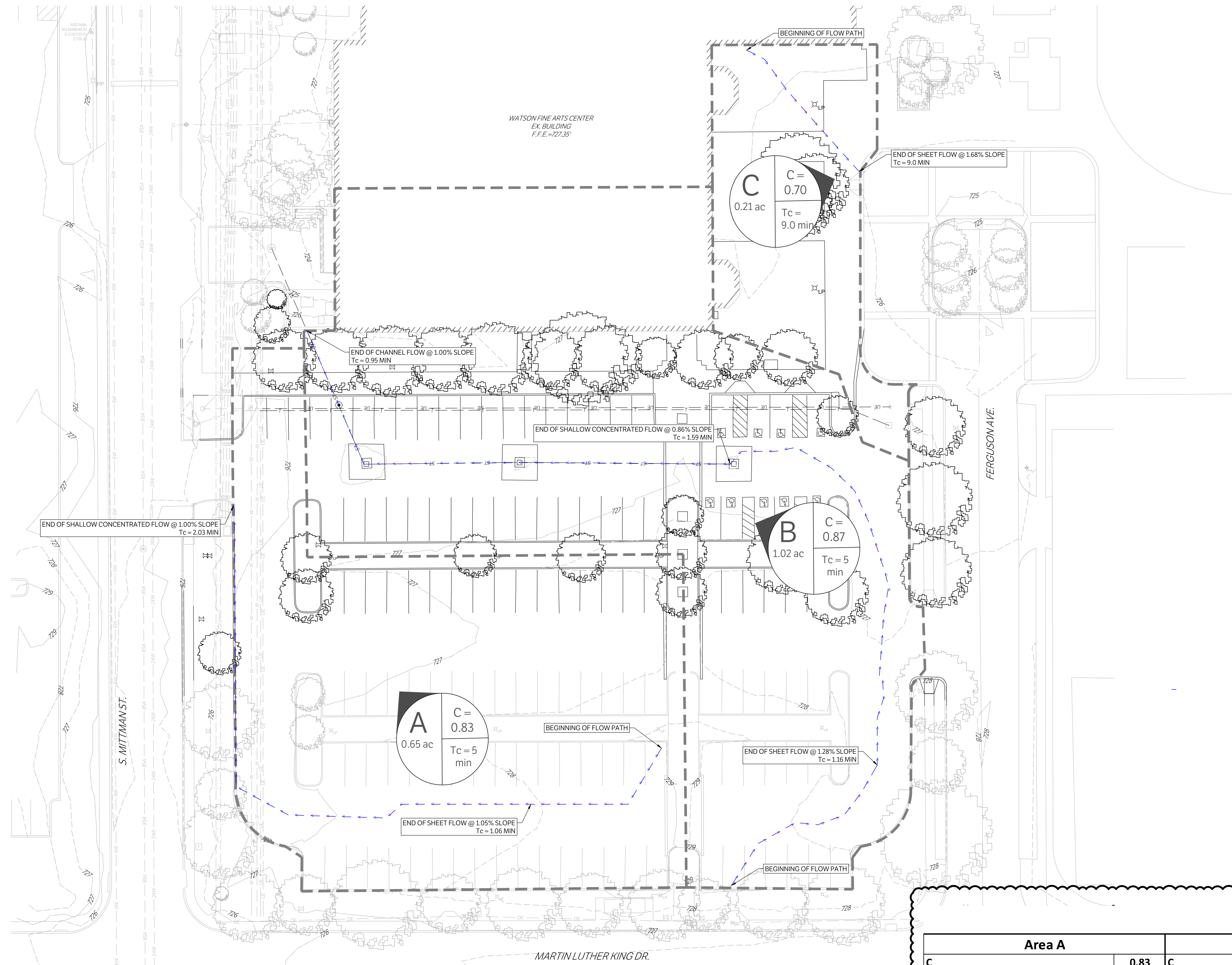
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

CRAWLSPACE

C401

ISSUE FOR PERMIT

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

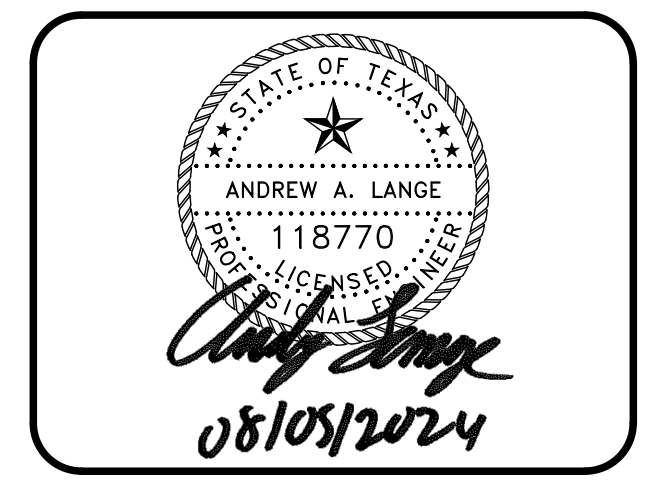
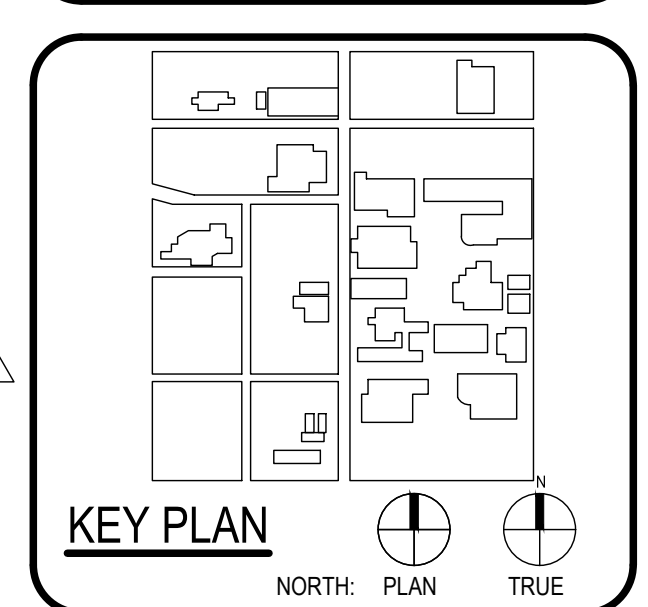
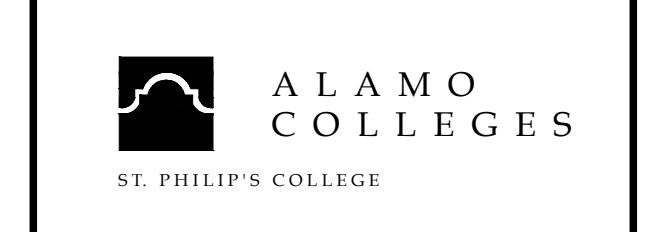
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



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WFAC Black Box Addition PKG 1

600 S Milman St.
 San Antonio, TX 78203
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CLIENT		Alamo Colleges
DATE	2024/06/12	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
1	ADDENDUM 1	08/05/2024

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BUILDING NUMBER

PRE DRAINAGE AREA MAP

C500

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

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

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			

CHECKED BY: SH & AL
 DRAWN BY: JC

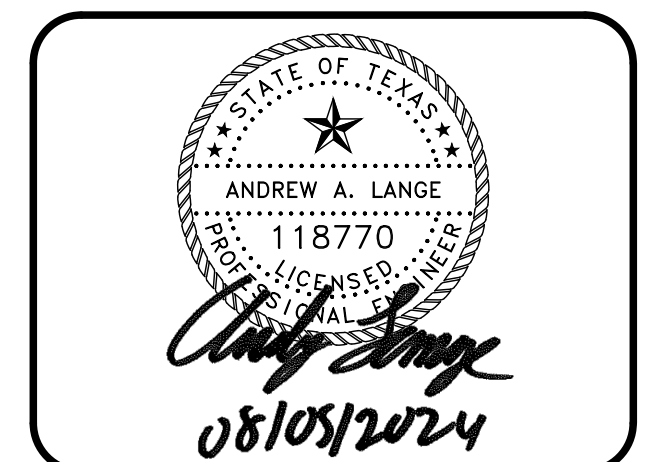
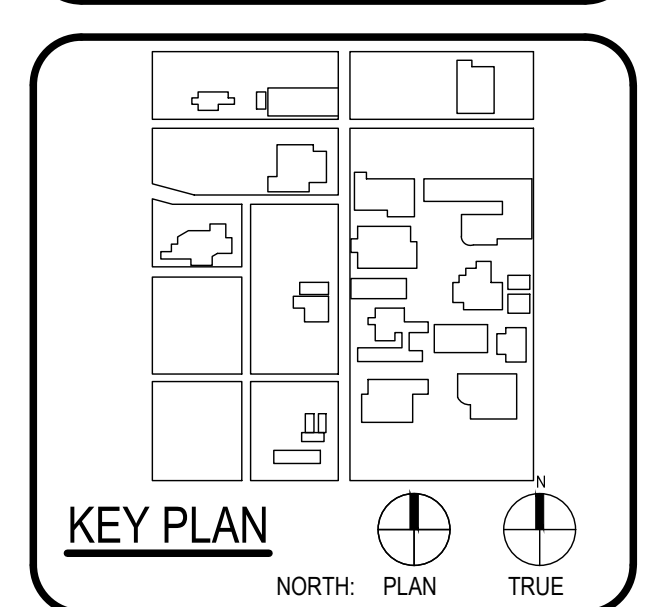
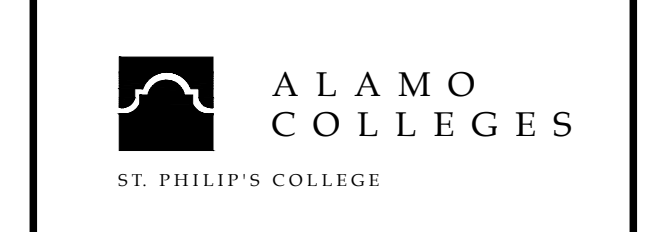
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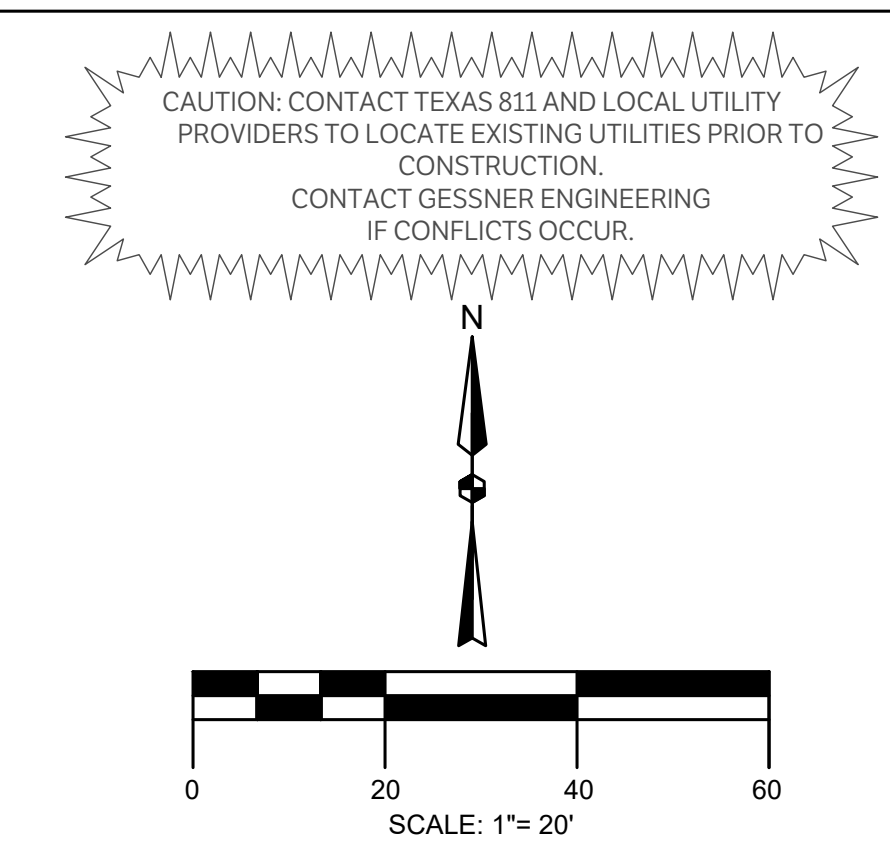


CLIENT		Alamo Colleges
DATE	2024/06/12	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
1	ADDENDUM 1	08/05/2024

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BUILDING NUMBER

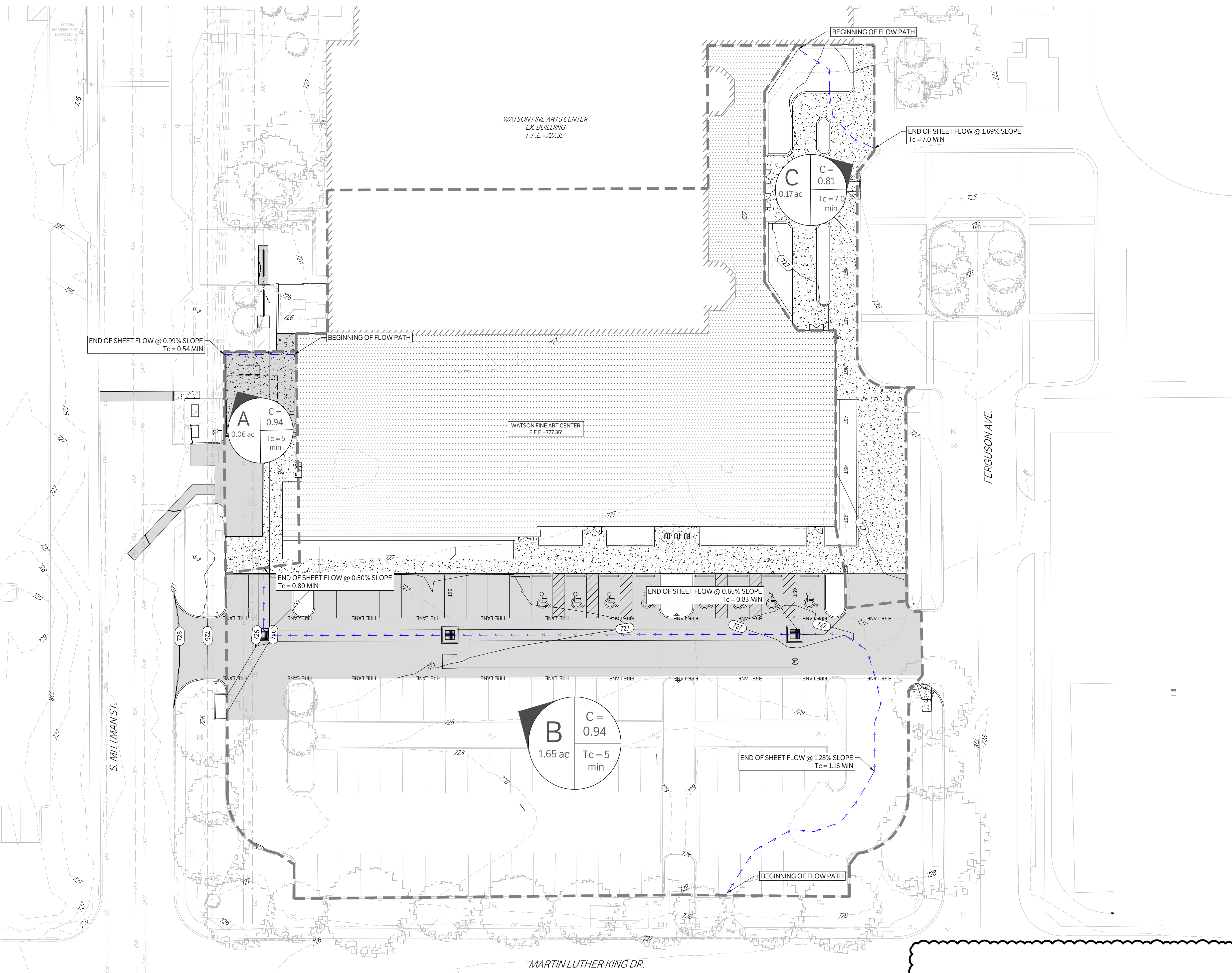
POST DRAINAGE AREA MAP

C501



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

Post					
Area A		Area B		Area C	
C	0.94	C	0.91	C	0.81
Area (ac)	0.06	Area (ac)	1.65	Area (ac)	0.17
Flow Length (ft)	29.10	Flow Length (ft)	416.77	Flow Length (ft)	70.70
SCS Sheet Flow (ft)	29.10	SCS Sheet Flow (ft)	85.32	SCS Sheet Flow (ft)	24.73
Slope (%)	0.99	Slope (%)	1.28	Slope (%)	0.83
Manning's Roughness	0.011	Manning's Roughness	0.013	Manning's Roughness	0.300
Flow Time (min)	0.54	Flow Time (min)	1.32	Flow Time (min)	7.18
Time of Concentration (min)	0.54	SCS Shallow Concentrated Flow (ft)	81.23	SCS Sheet Flow (ft)	32.46
COSA requires min TOC of 5 min		PAVEMENT		Slope (%)	2.55
		Slope (%)	0.65	Manning's Roughness	0.011
		Velocity (ft/s)	1.64	Flow Time (min)	0.40
		Flow Time (min)	0.83	Time of Concentration (min)	8.00
		SCS Channel Flow (ft)	224.55	*COSA requires min TOC of 5 min*	
		Slope (%)	0.50		
		Manning's Roughness	0.011		
		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			

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					
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		

CHECKED BY: SH & AL
DRAWN BY: JC

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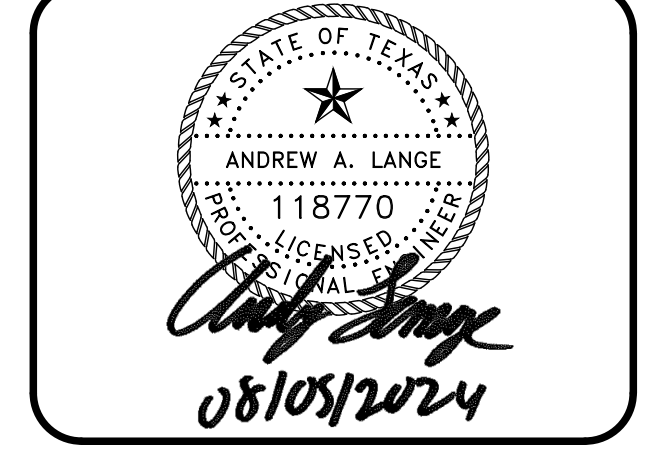
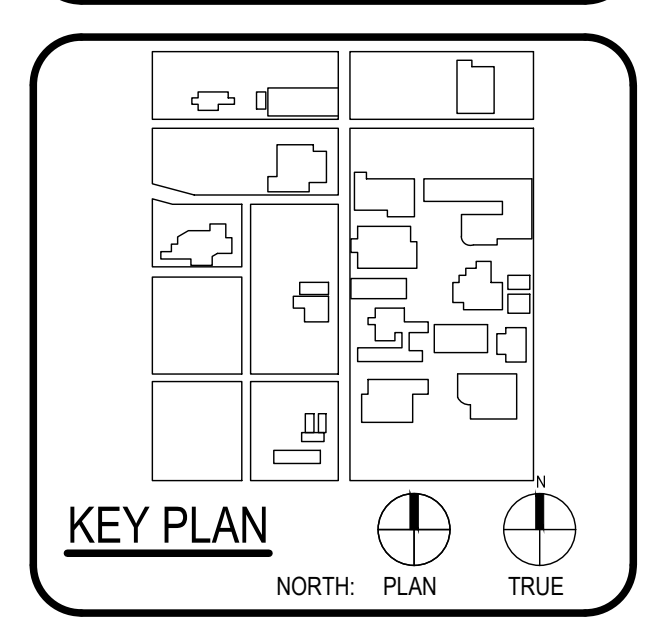
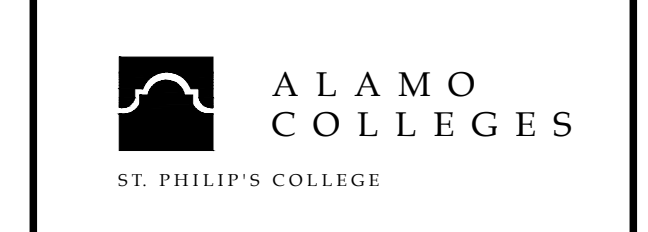
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ARCHITECT	BA & ARCHITECTS
SAN ANTONIO 1701 BRUNNEN LANDSCAPE DESIGN GROUP 1713 BRUNNEN SAN ANTONIO, TX 78202 LUNDY & HARRIS ENGINEERING 1713 BRUNNEN SAN ANTONIO, TX 78202 T. 210.829.0123 PROLOGUE NEAR PROLOGUE 1713 BRUNNEN SAN ANTONIO, TX 78202 T. 210.829.0123	

WFAC Black Box Addition PKG 1

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



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

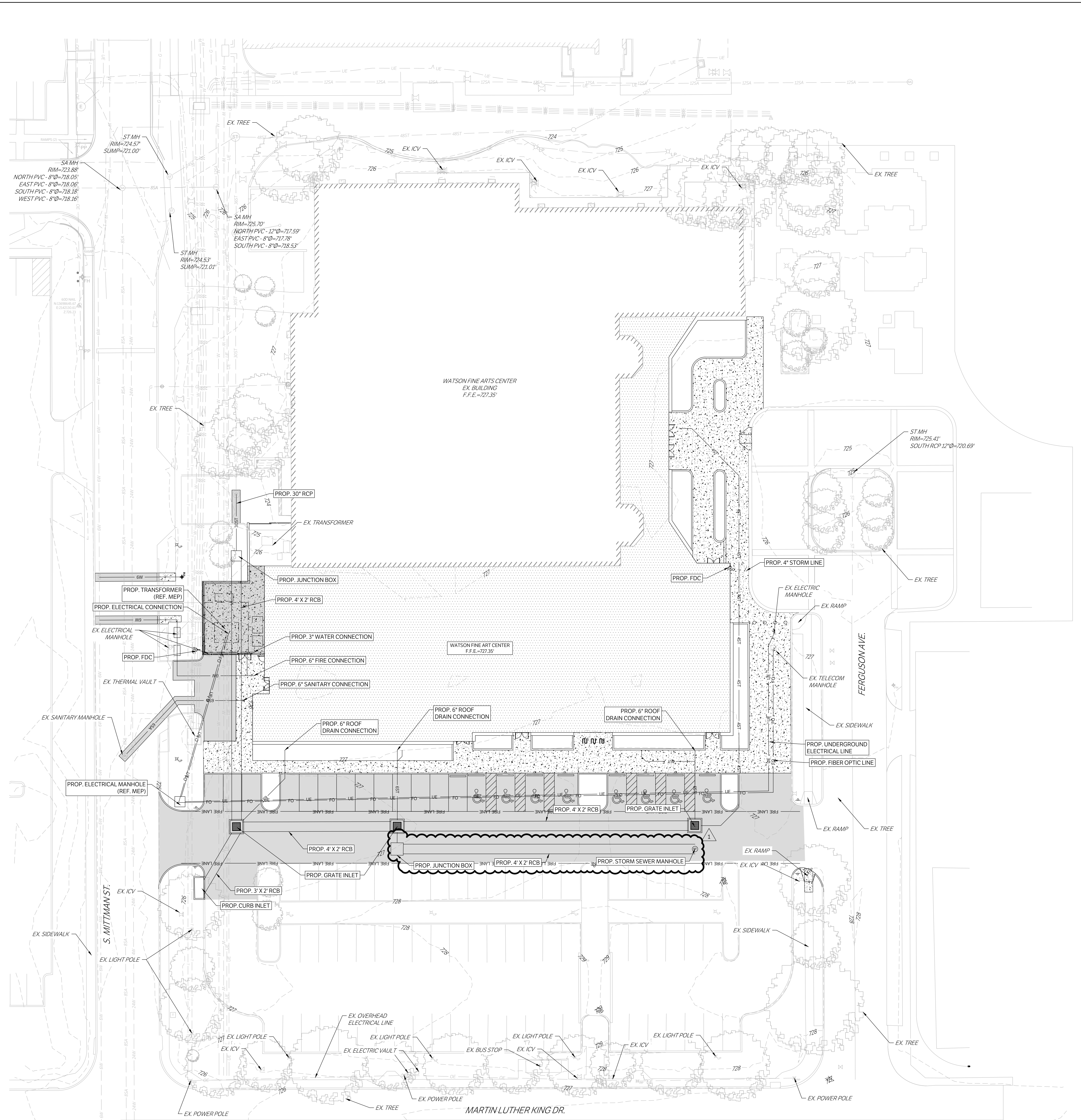
No.	Description	Date
1	ADDENDUM 1	08/05/2024

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BUILDING NUMBER

OVERALL UTILITY

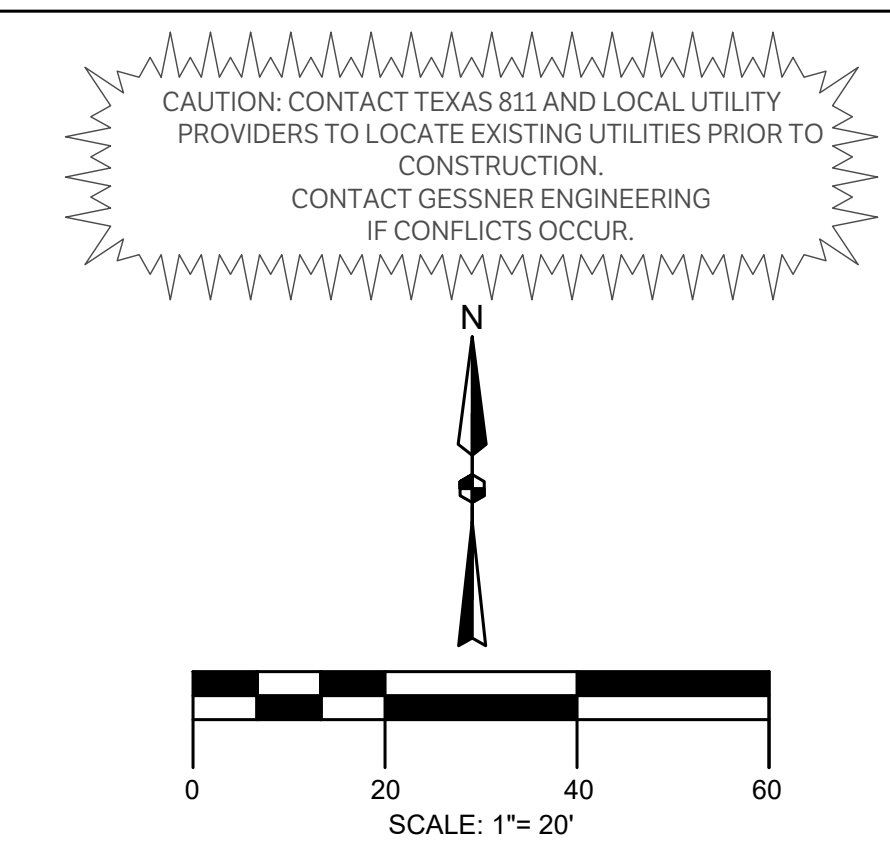
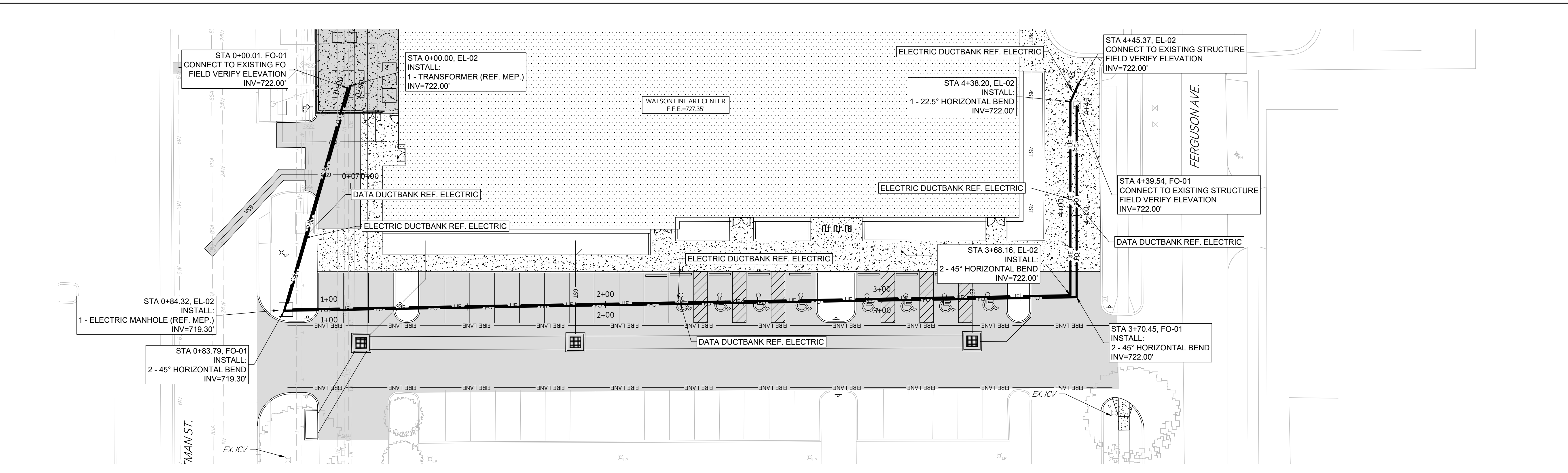
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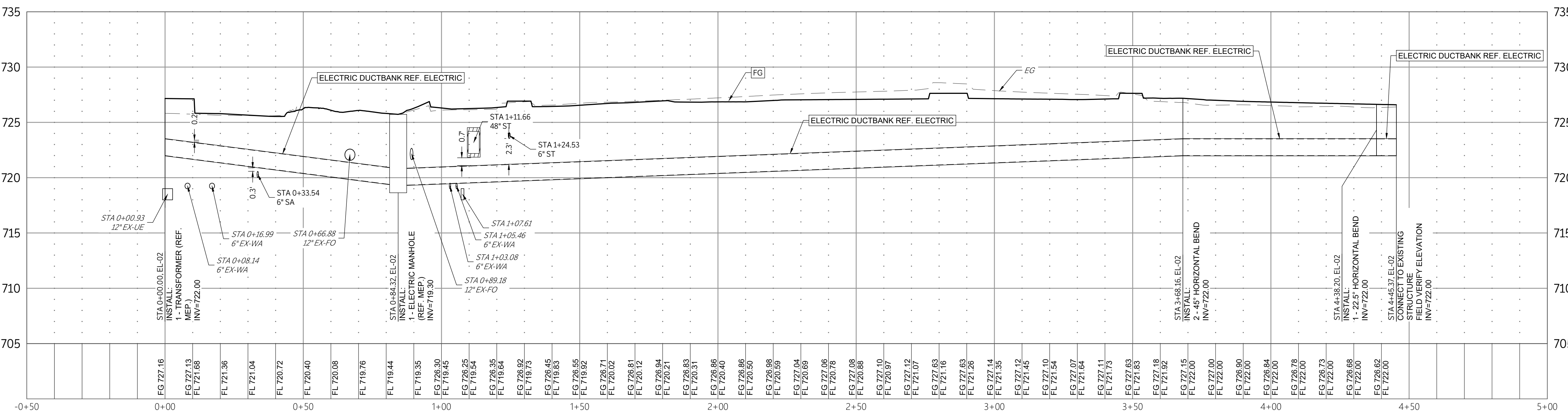
LEGEND

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[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
[Symbol]	EX. PROP. STORM LINE
[Symbol]	EX. PROP. WATER LINE
[Symbol]	EX. PROP. SANITARY SEWER LINE
[Symbol]	EXISTING THERMALS
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[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
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[Symbol]	PROPOSED UTILITY EASEMENT

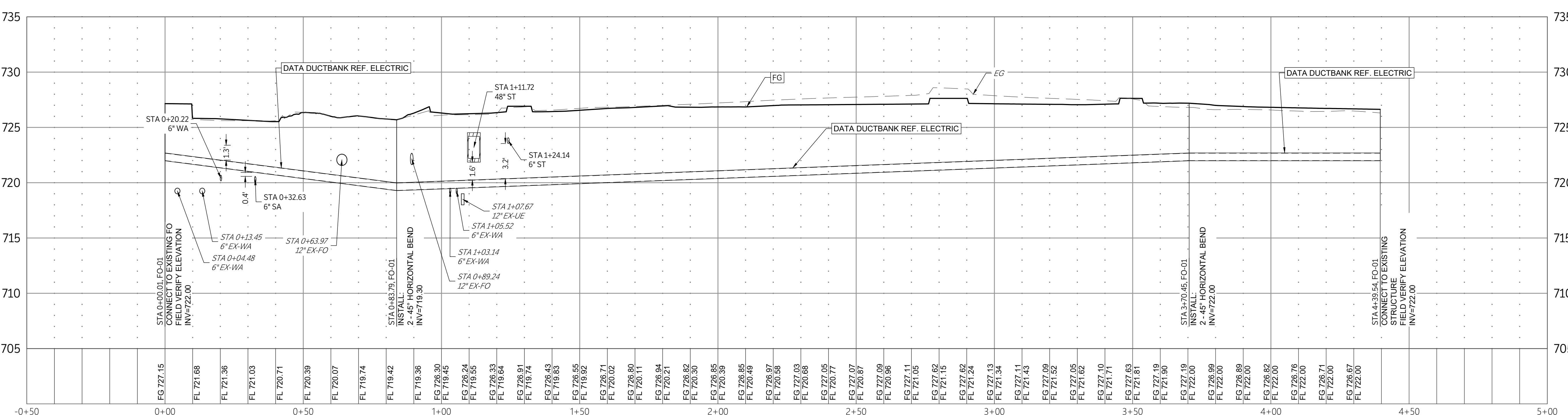
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NOTE:
CONTRACTOR TO FIELD VERIFY EXISTING
UTILITY INVERTS PRIOR TO CONSTRUCTION



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



FO-01
SCALE: 1"=20' H, 1"=5' V

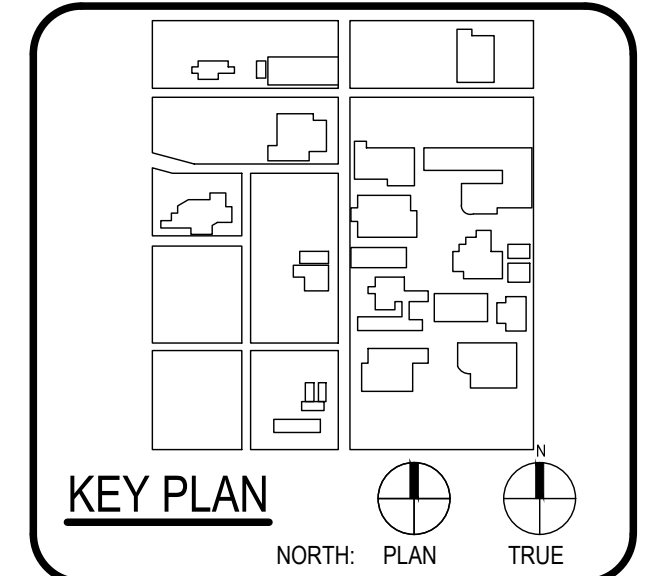
LEGEND

- PROPOSED ASPHALT PAVEMENT
- PROPOSED STRUCTURAL PAVEMENT
- PROPOSED 4" CONCRETE SIDEWALK
- 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
- EX. | PROP. DATA/TELECOM
- EX. | PROP. UNDERGROUND ELECTRIC
- EX. | PROP. FIBER OPTIC
- EX. | PROP. OVERHEAD ELECTRIC
- EX. | PROP. FIRE HYDRANT
- EX. | PROP. WATER METER
- EX. | PROP. GATE VALVE
- EX. IRRIGATION CONTROL VALVE
- PROP. FIRE DEPARTMENT CONNECTION
- PROP. POST INDICATOR VALVE
- PROP. HOSE LAY
- EX. | PROP. SANITARY SEWER MANHOLE
- EX. | PROP. SANITARY SEWER CLEANOUT
- EX. STORM SEWER MANHOLE
- PROP. STORM SEWER CURB INLET
- EX. | PROP. LIGHT POLE
- PAE PROPOSED PUBLIC ACCESS EASEMENT
- PUE PROPOSED UTILITY EASEMENT



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

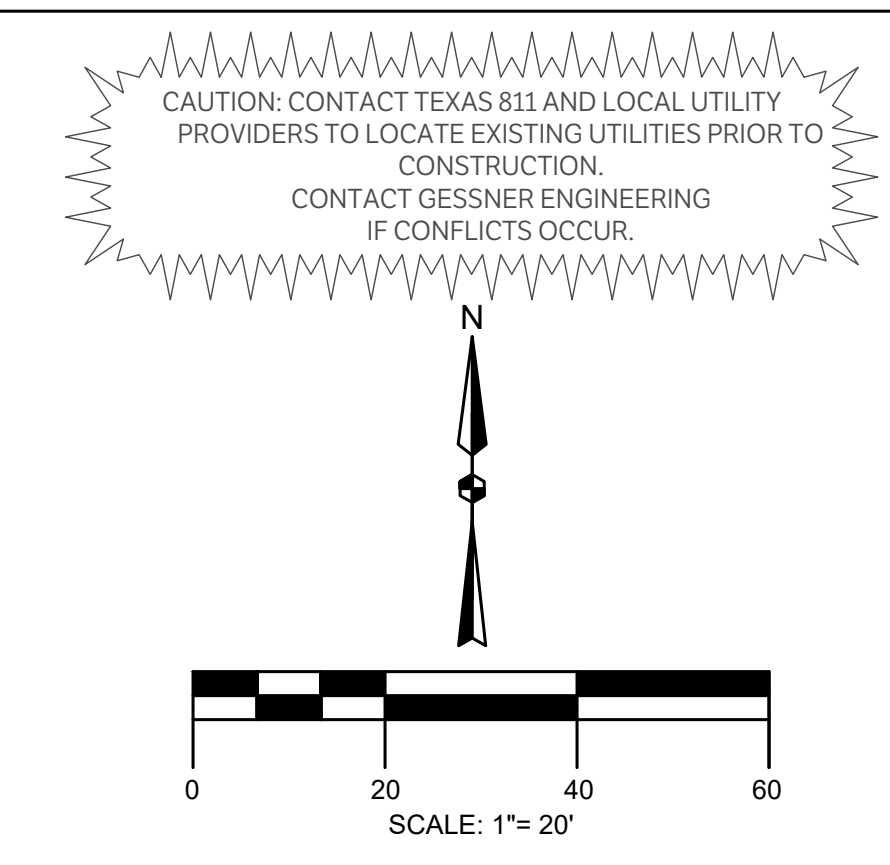
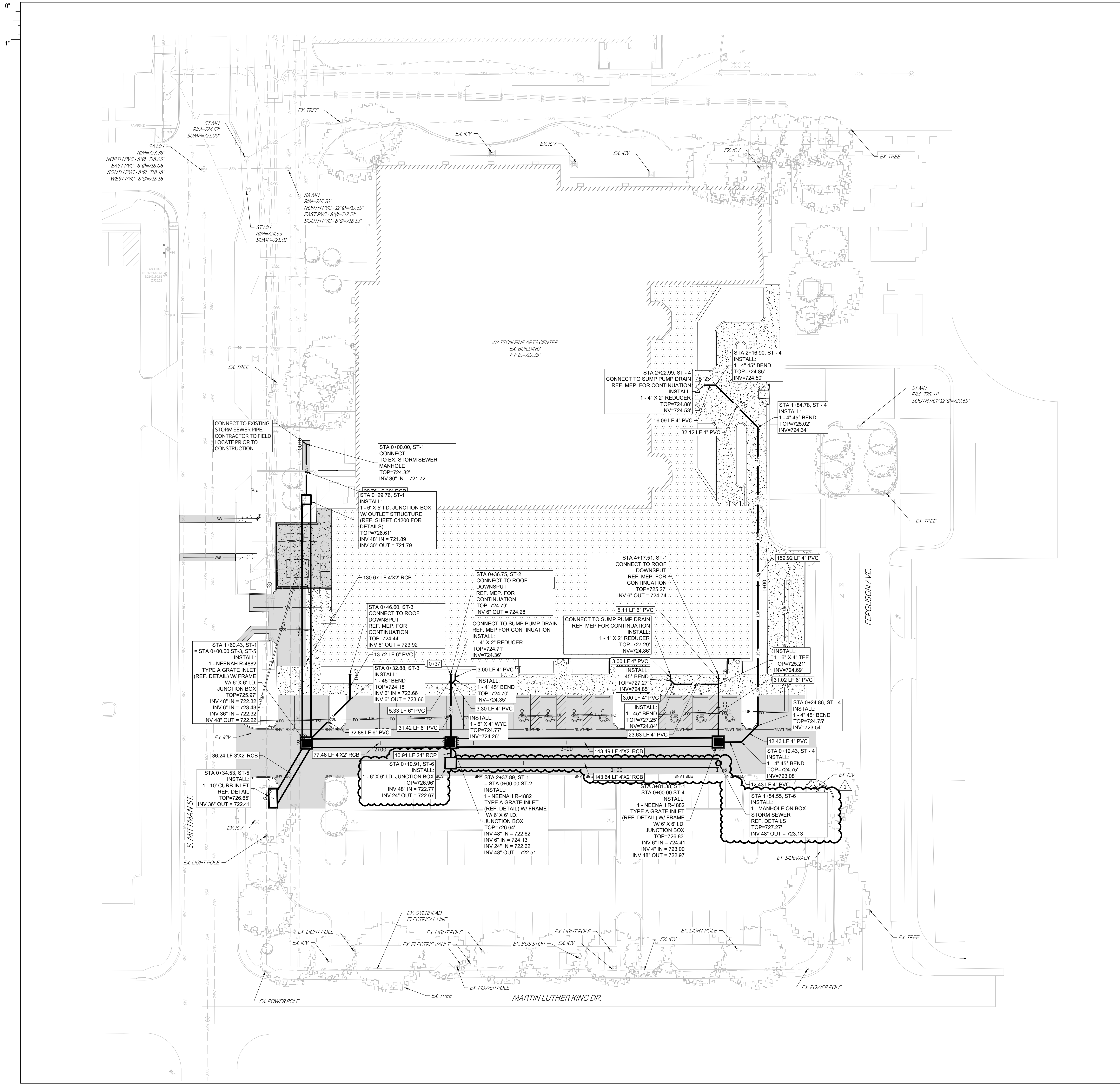
ISSUE FOR CONSTRUCTION
BUILDING NUMBER

ELEC. & COMMS
PLAN & PROFILES

C700

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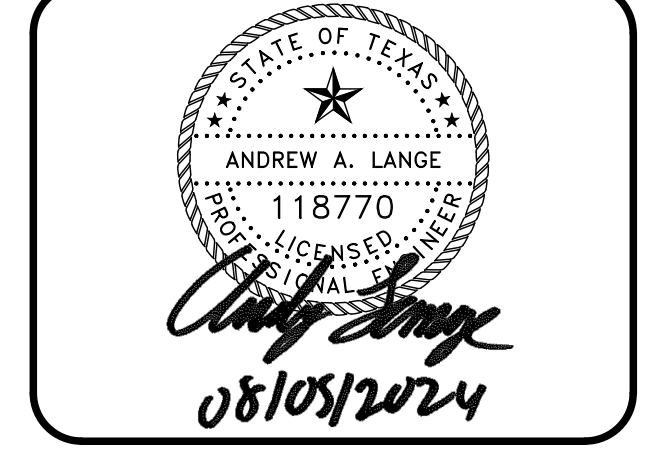
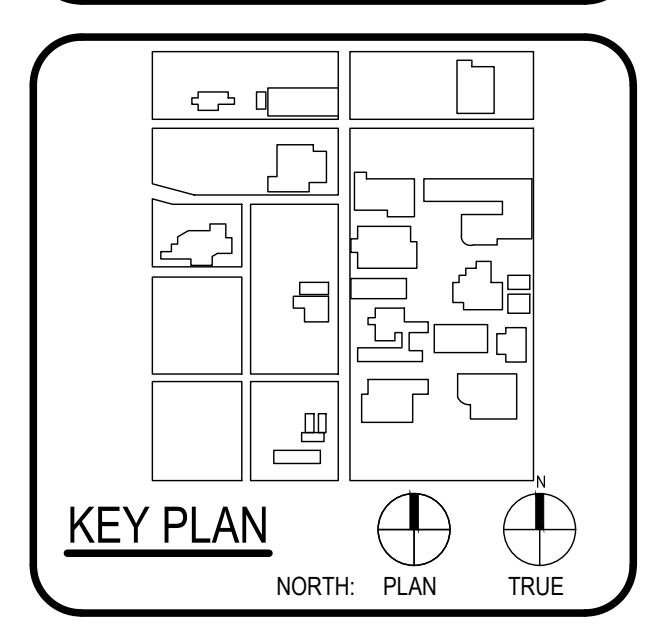
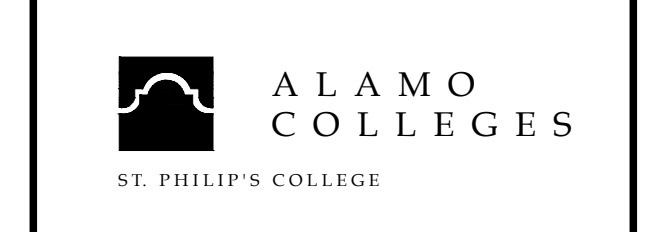


LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT



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 601 N.W. Loop 410, Suite 400
 San Antonio, TX 78216
 210-829-0123 P
 210-829-0578 F
 TX Firm BR 1608
 ARCHITECT
 SH & AL ARCHITECTS
 1311 W. LOOP WEST
 SUITE 100
 SAN ANTONIO, TEXAS 78201
 LINDY & HARRIS ENGINEERING
 1311 W. LOOP WEST
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DATE	PROJECT NUMBER	230462
DRAWING HISTORY		
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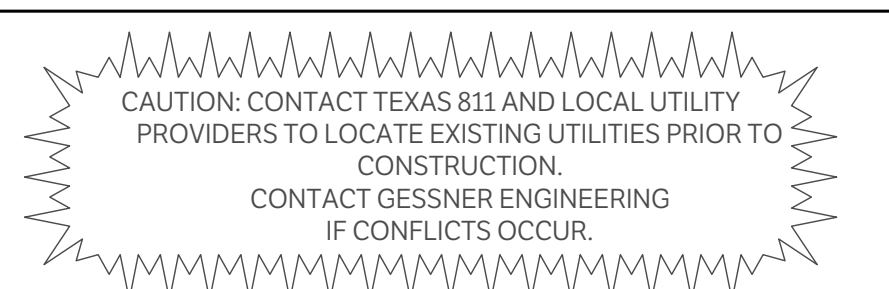
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C800

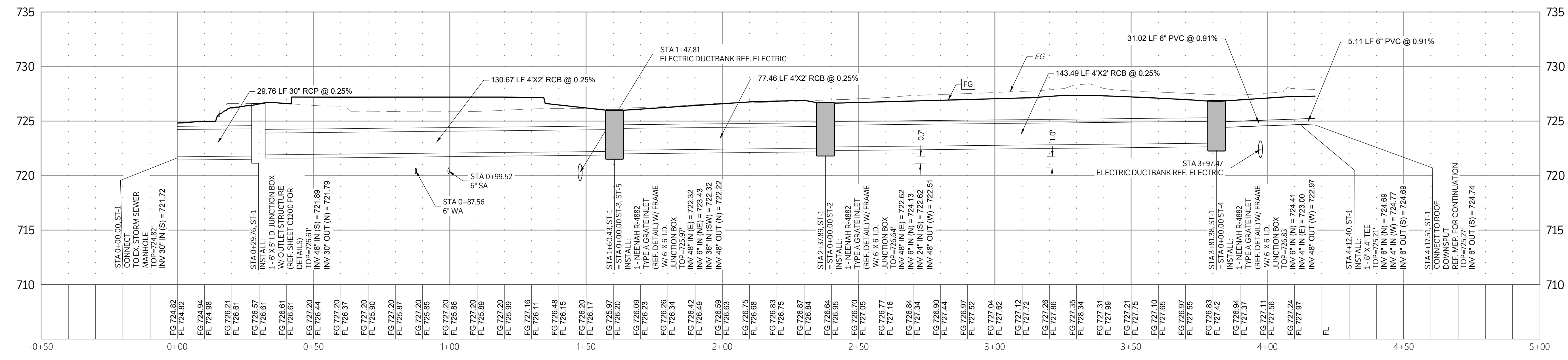
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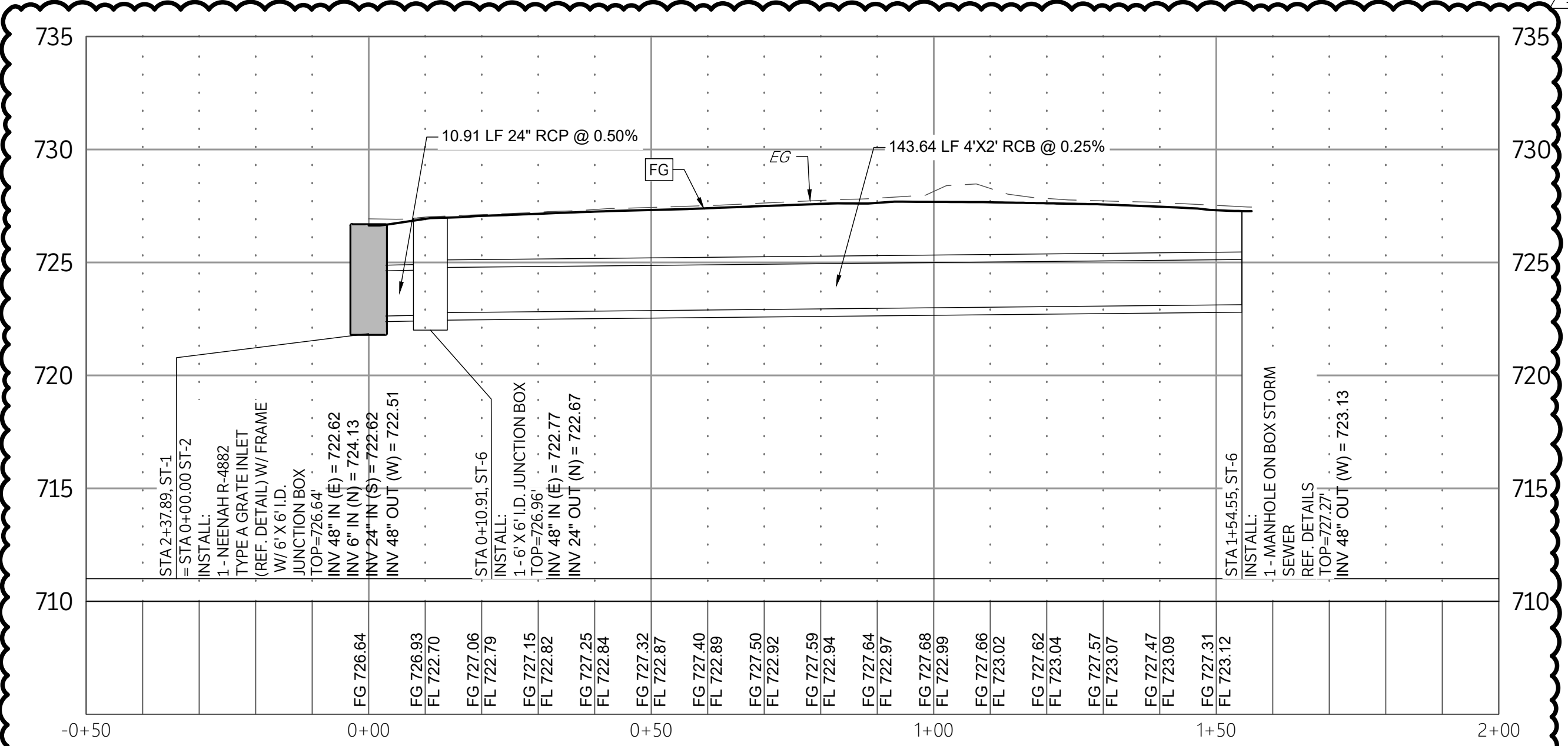
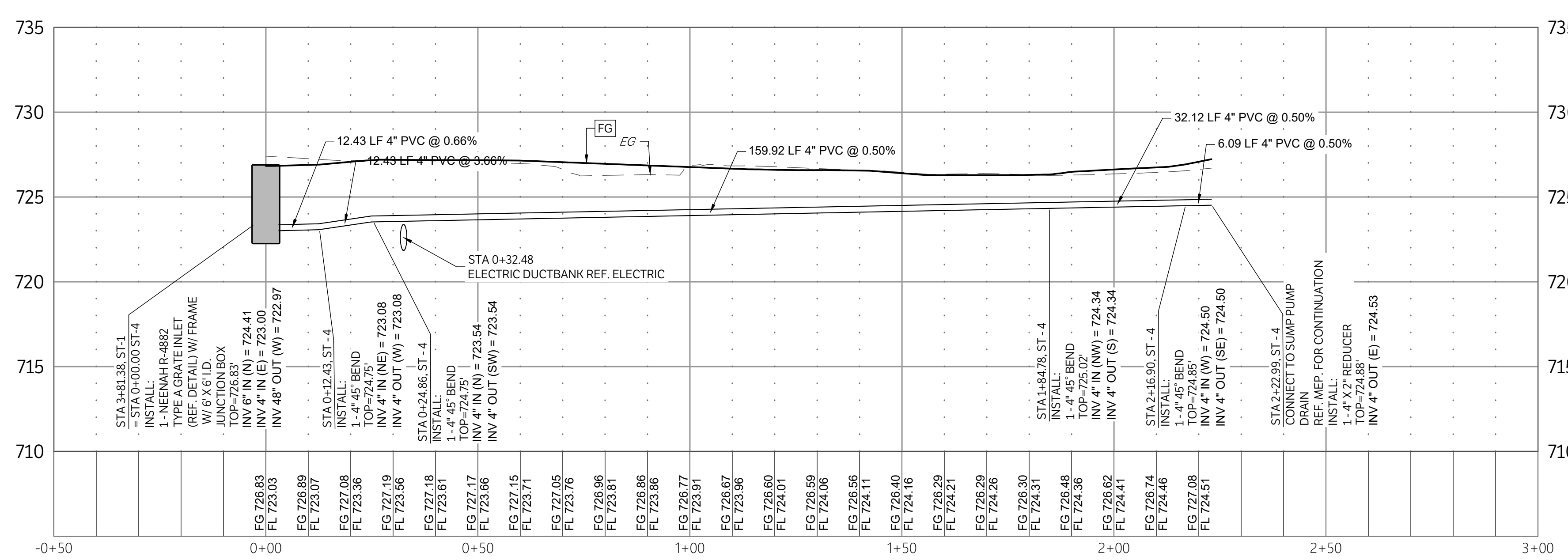
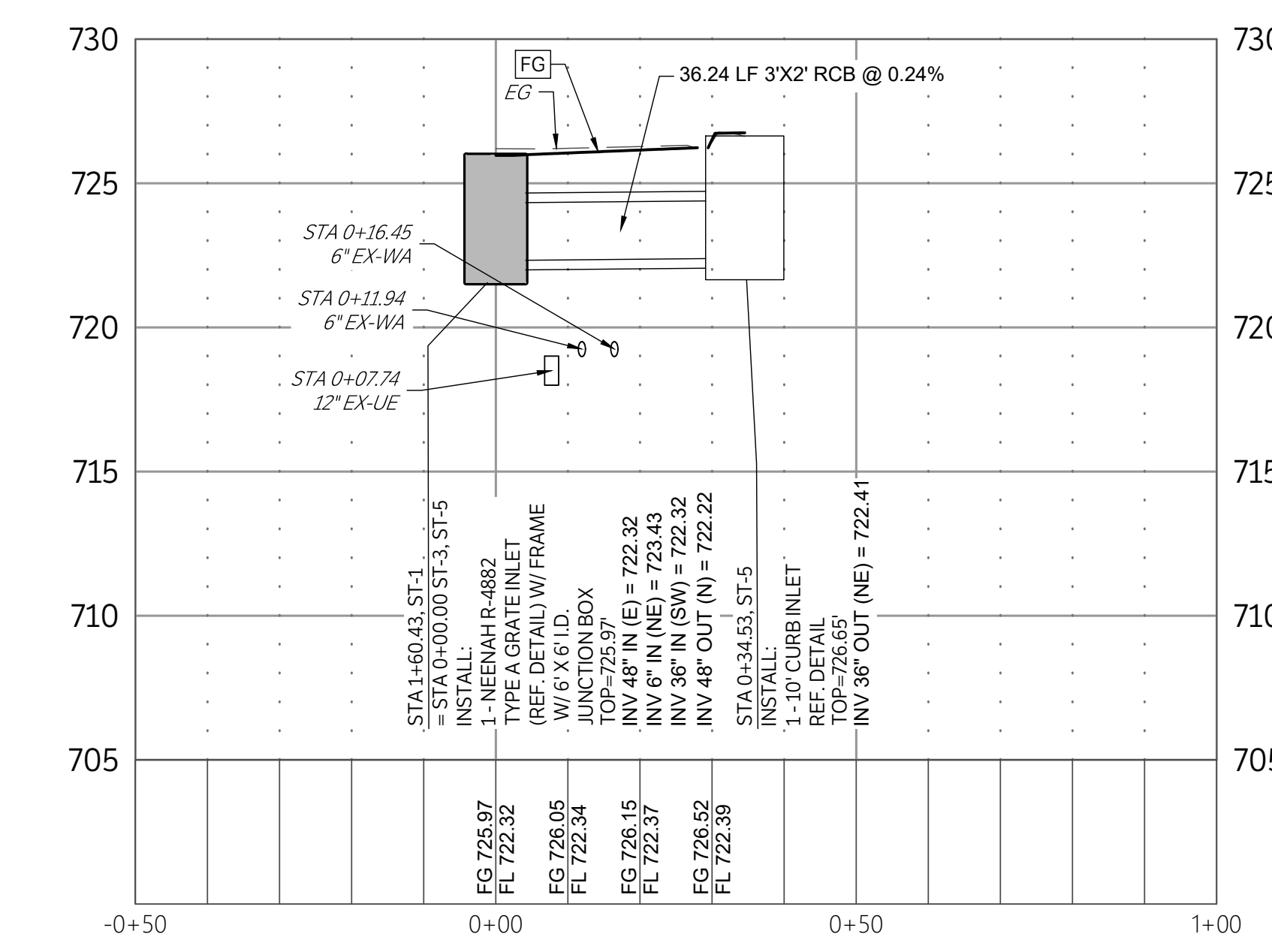
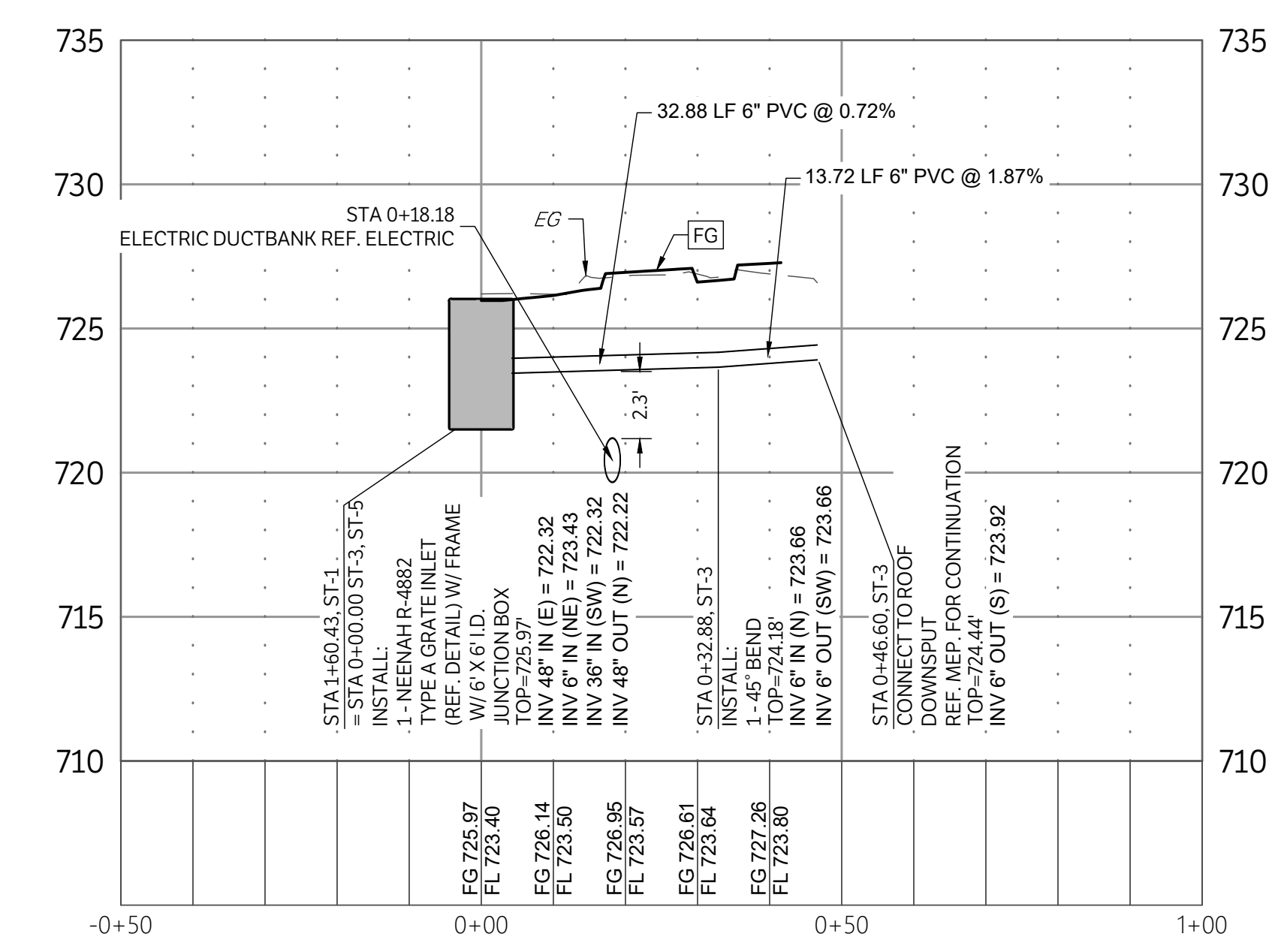
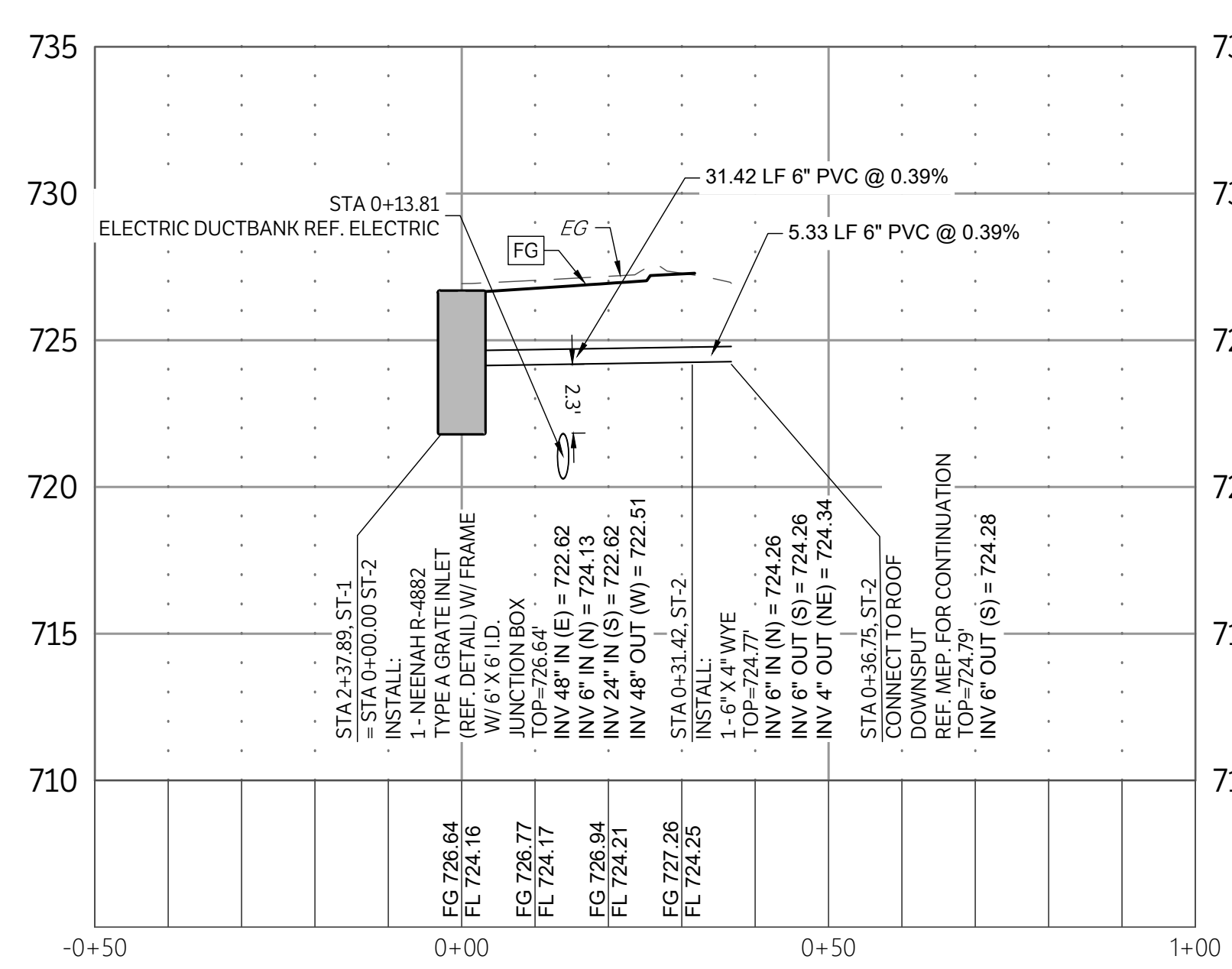
ISSUE FOR PERMIT



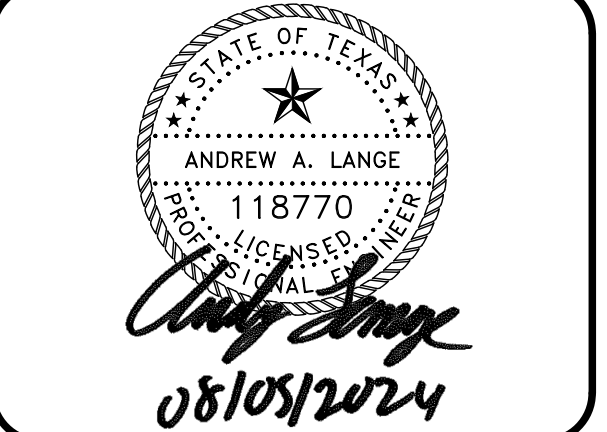
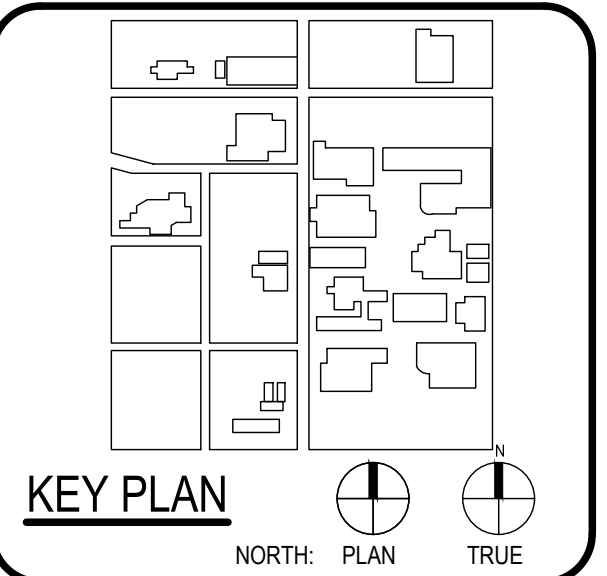
ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	PK-000
ARCHITECT	PKB Architects, Inc.
LANDSCAPE ARCHITECT	PKB Architects, Inc.
ENGINEER	GESSNER ENGINEERING
UTILITY ENGINEER	GESSNER ENGINEERING
INSPECTOR	GESSNER ENGINEERING
CONTRACTOR	CONTRACTOR TO FIELD VERIFY EXISTING UTILITY INVERTS PRIOR TO CONSTRUCTION



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



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

STORM PROFILES

C801

CHECKED BY: SH & AL
DRAWN BY: JC

ISSUE FOR PERMIT

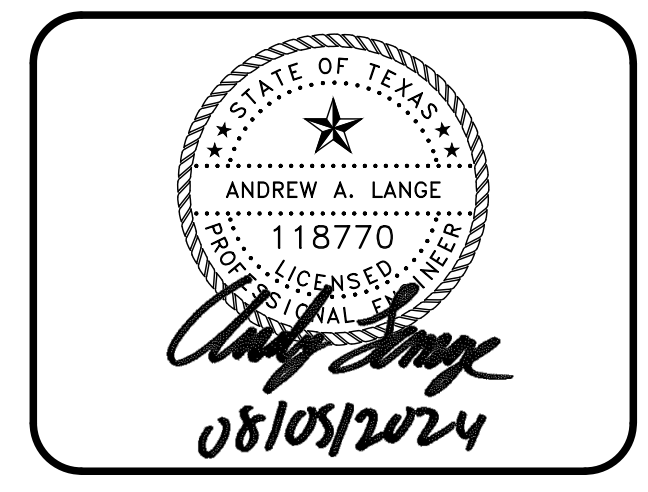
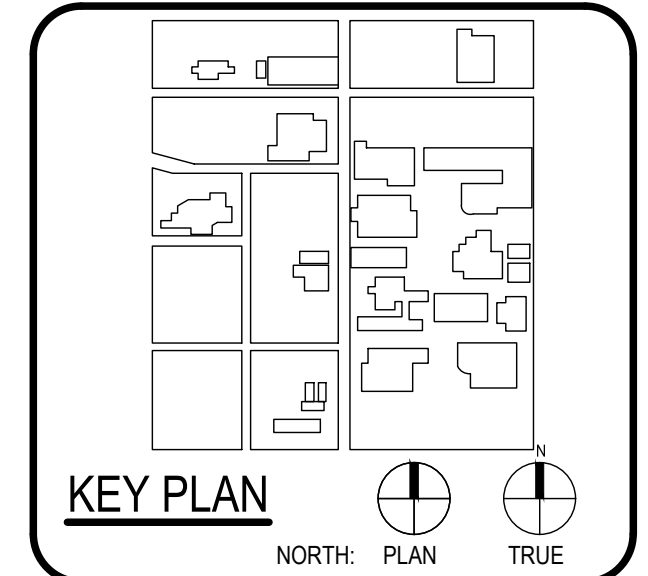
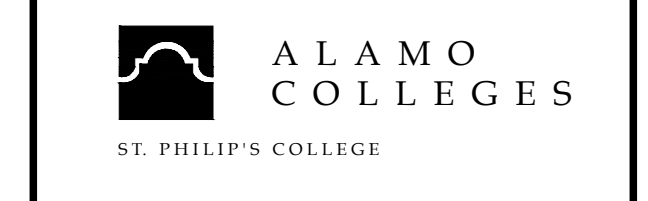
Sheet Grids Template
2400
FOR BLUEBAM LABELING.COR.

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
2100 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
DESIGNER	GESSNER ENGINEERING
1111 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
1111 W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ENGINEER	GESSNER ENGINEERING
1111 W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
PROVIDER	MEYER ENGINEERS
1111 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

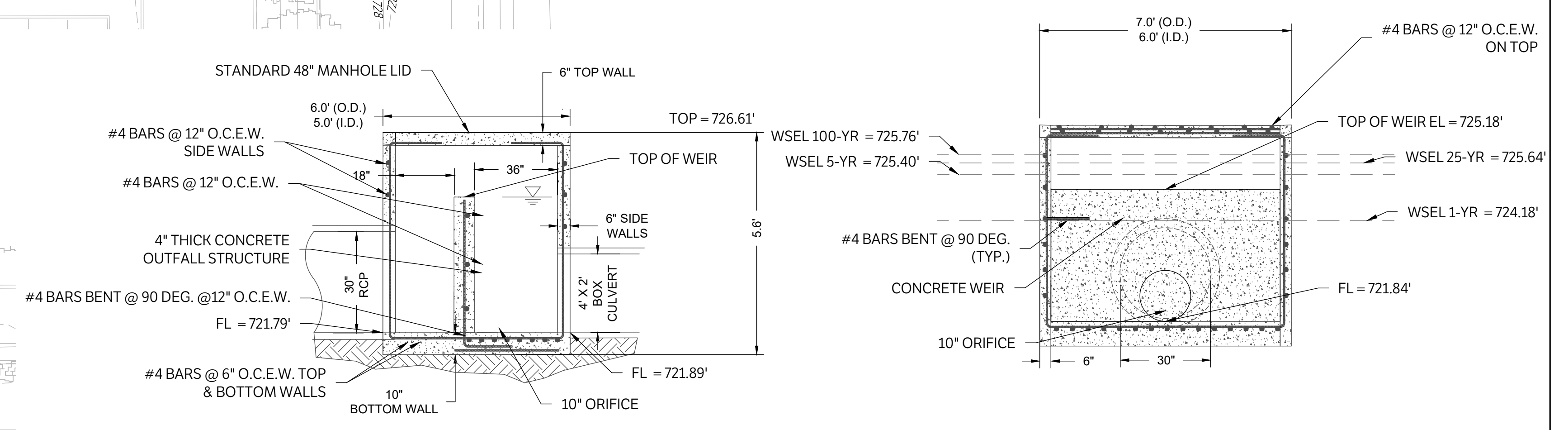
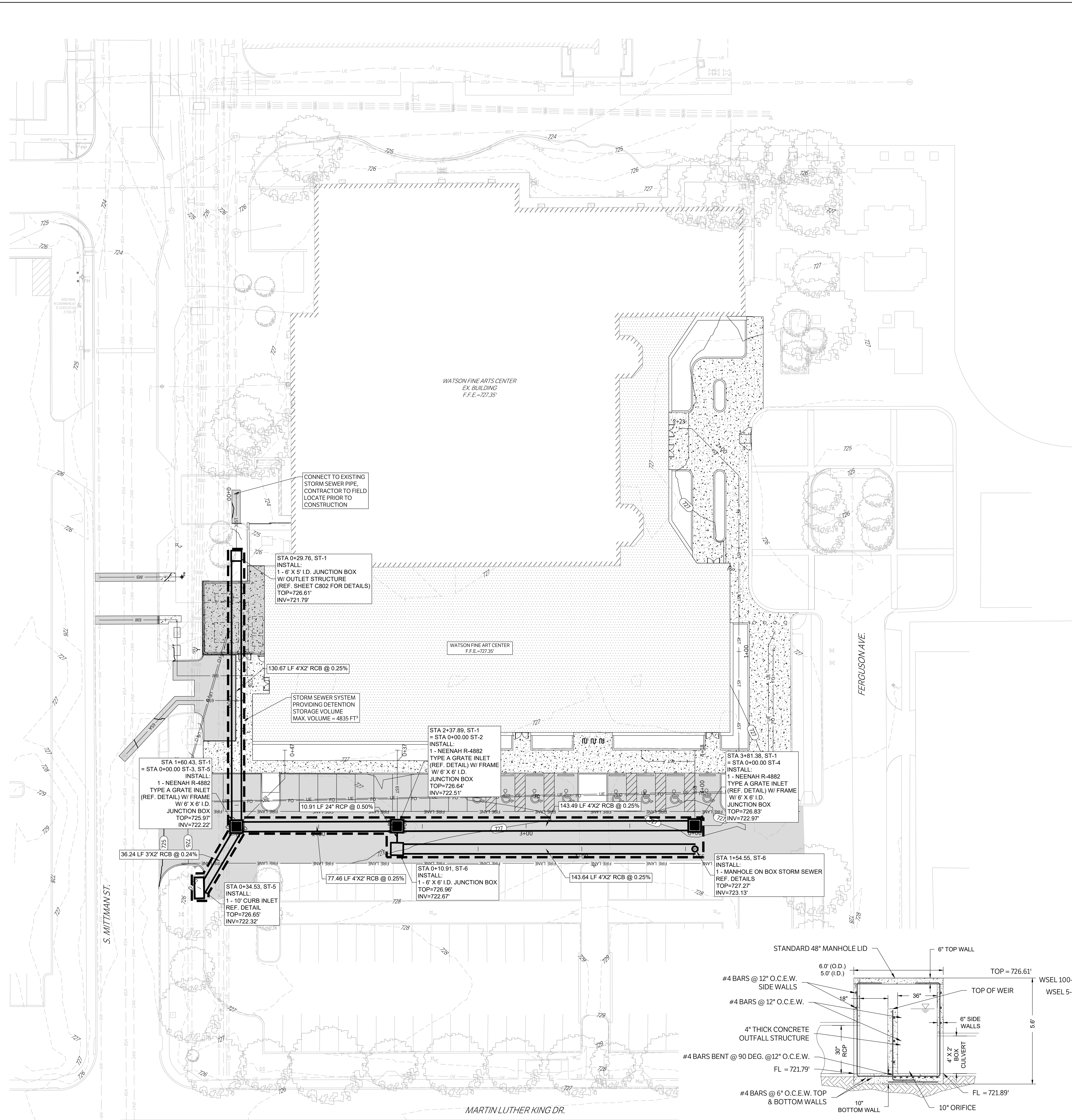


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

DETENTION PLAN

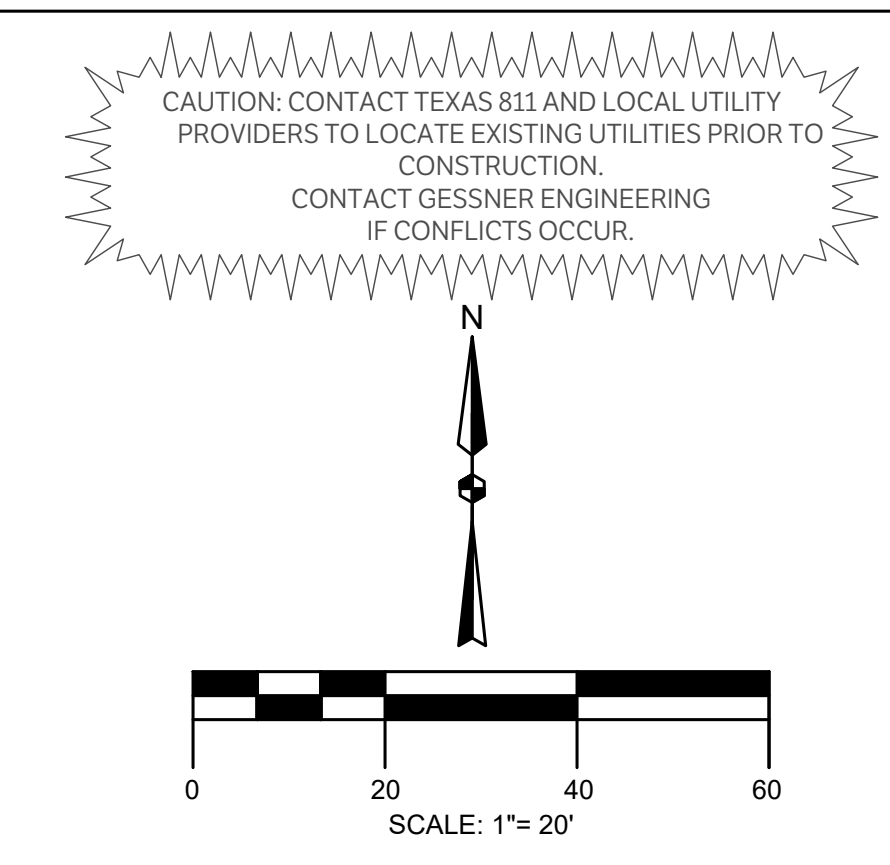
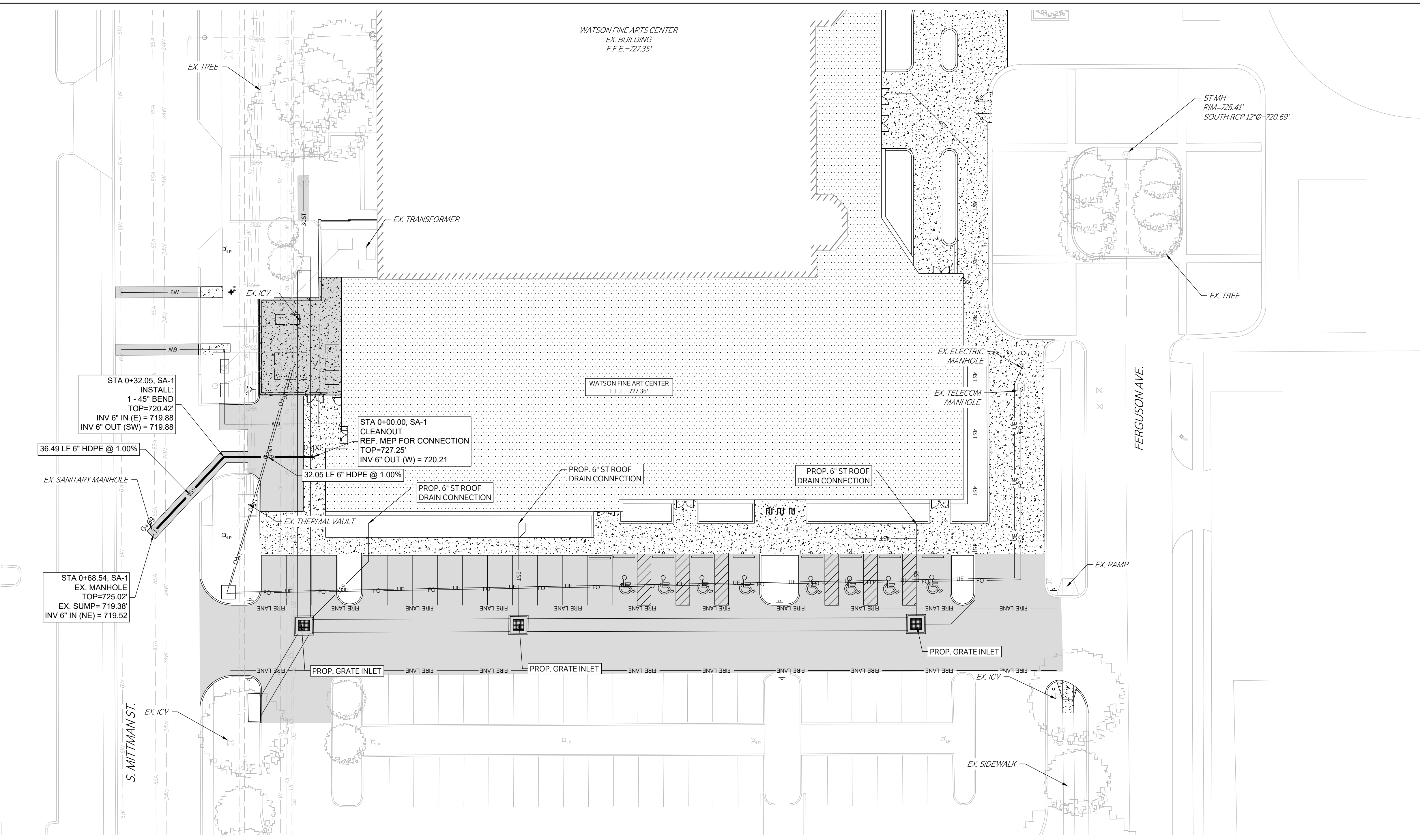
C802



UNDERGROUND DETENTION OUTLET STRUCTURE
N.T.S.
NOTES:
1. ALL REINFORCEMENT BARS TO HAVE 2\"/>

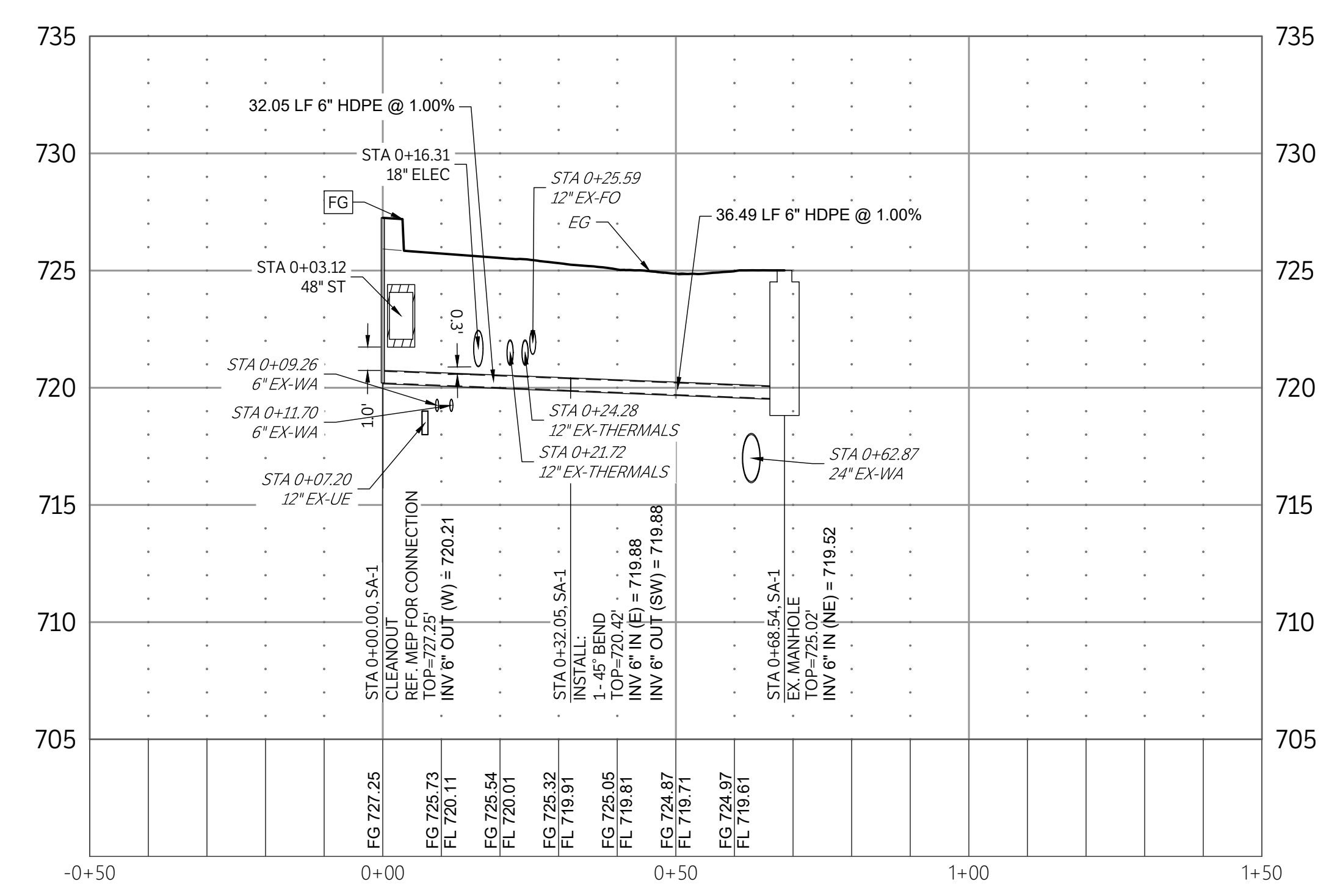
CHECKED BY: SH & AL
DRAWN BY: JC

ISSUE FOR CONSTRUCTION



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

LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT

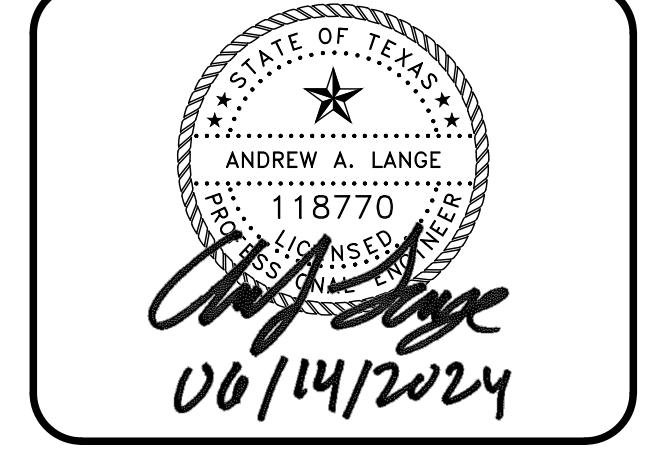
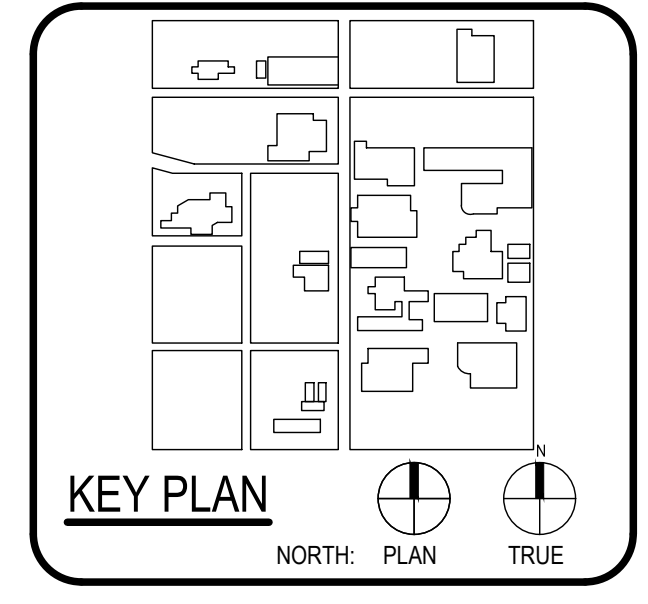


SA-1
SCALE: 1"=20' H, 1"=5' V



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
1301 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1131 W. 30th SAN ANTONIO, TX 78207 LUNDY & HARRIS ENGINEERING 1131 W. 30th SAN ANTONIO, TX 78207 TRAVIS TRAVIS NEAR POWER SIGNALS 1131 W. 30th SAN ANTONIO, TX 78207 TRAVIS TRAVIS	

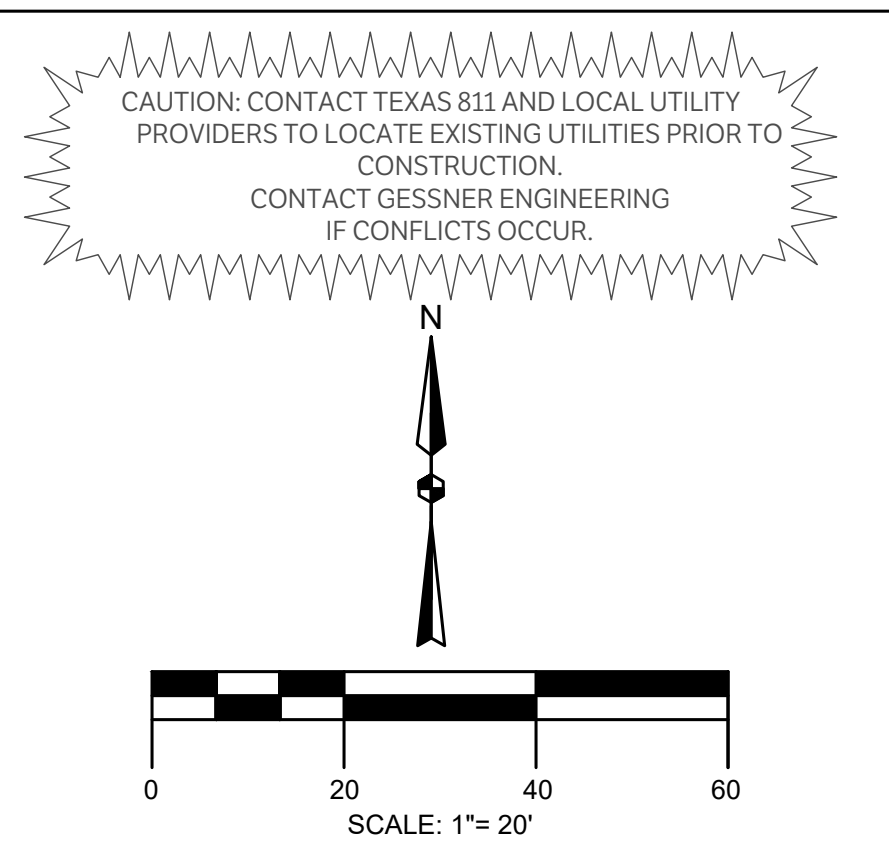
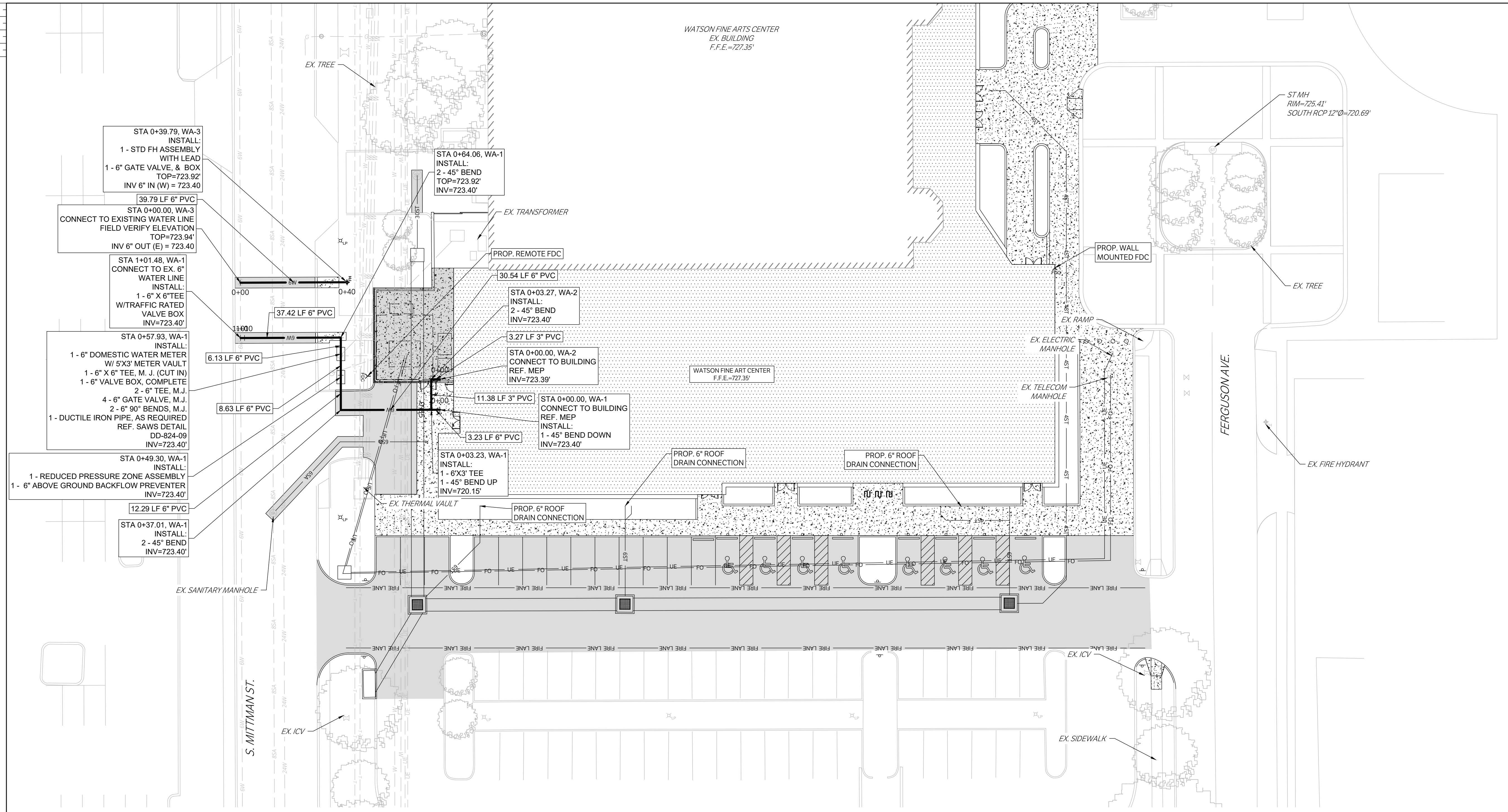
WFAC Black Box Addition PKG 1



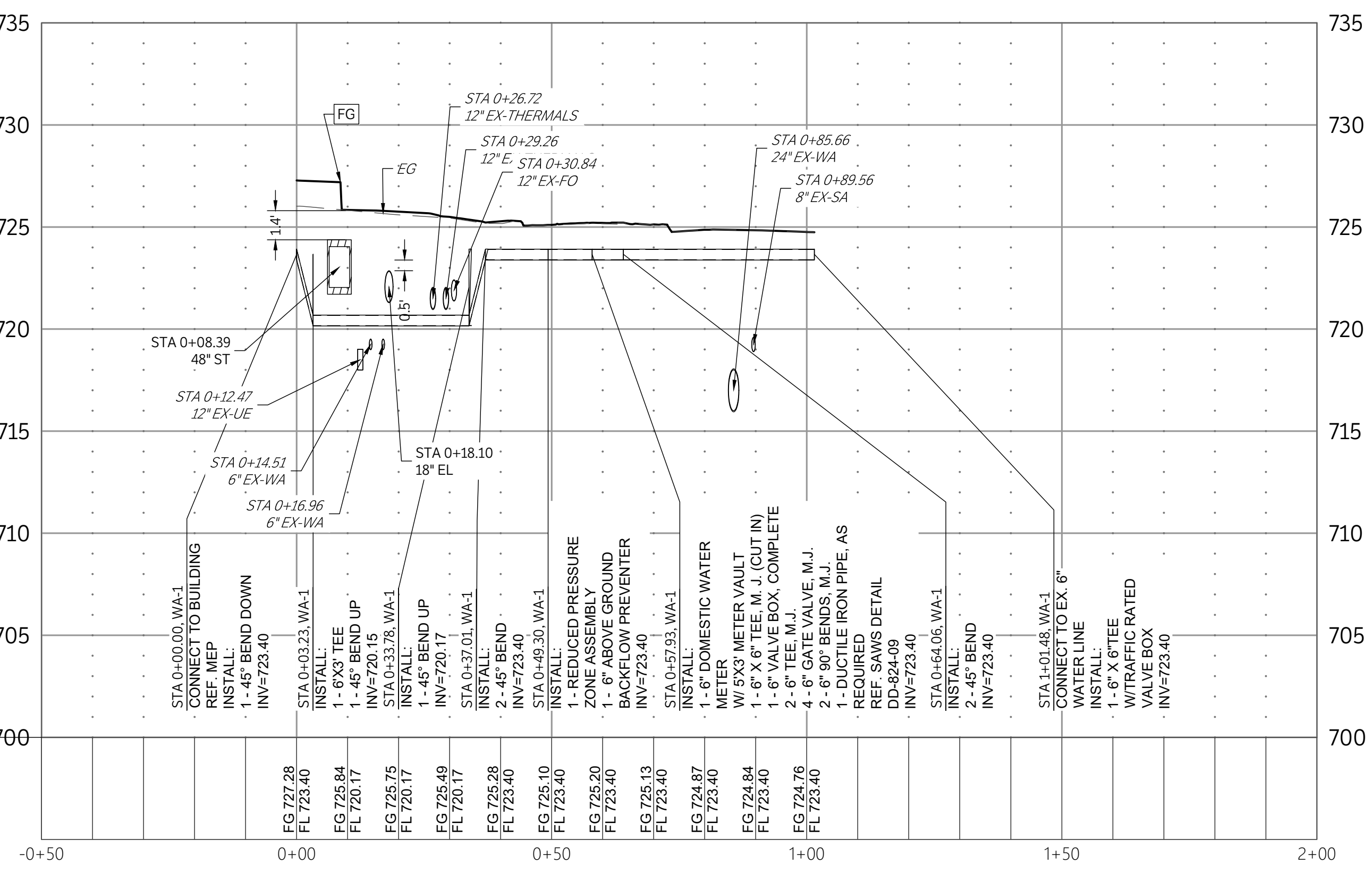
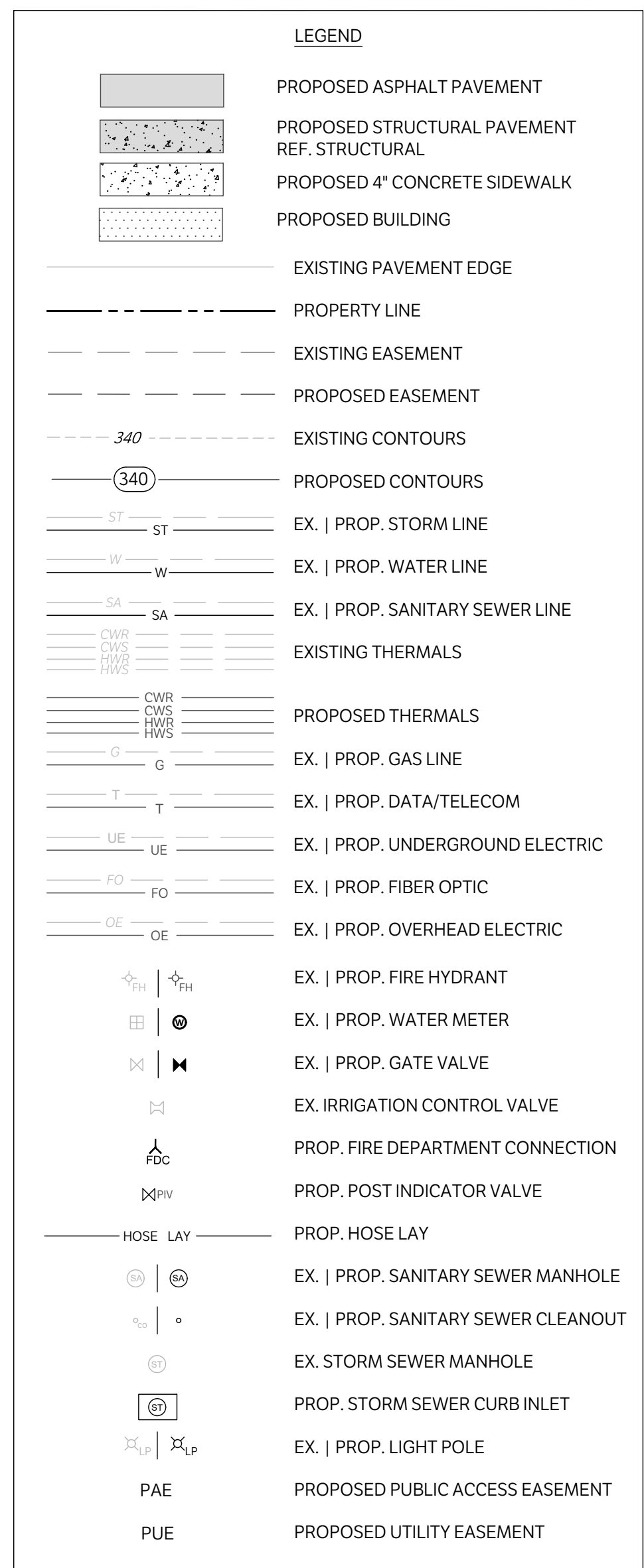
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER
SANITARY PLAN & PROFILES

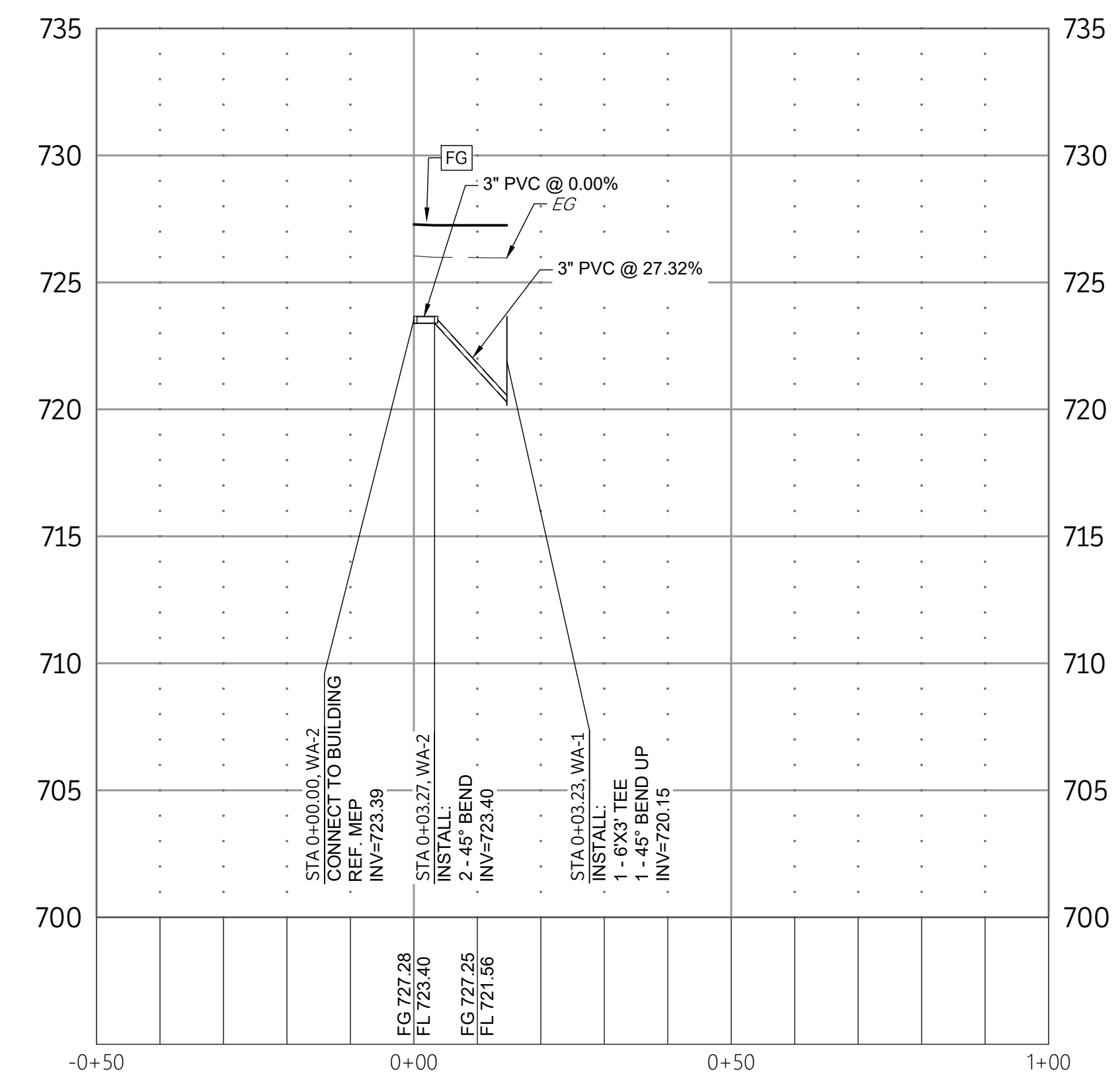
C900



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



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

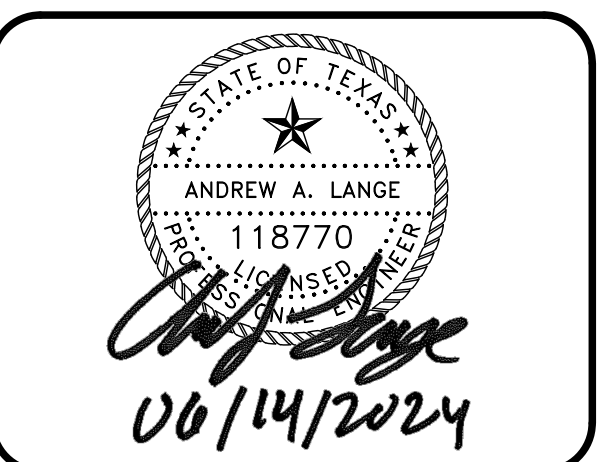
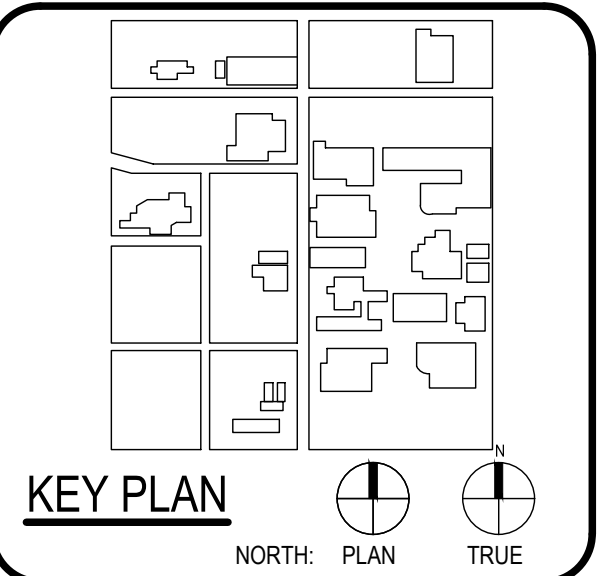


WA-2
SCALE: 1"=20' H, 1"=5' V



ARCHITECT
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

WFAC Black Box Addition PKG 1

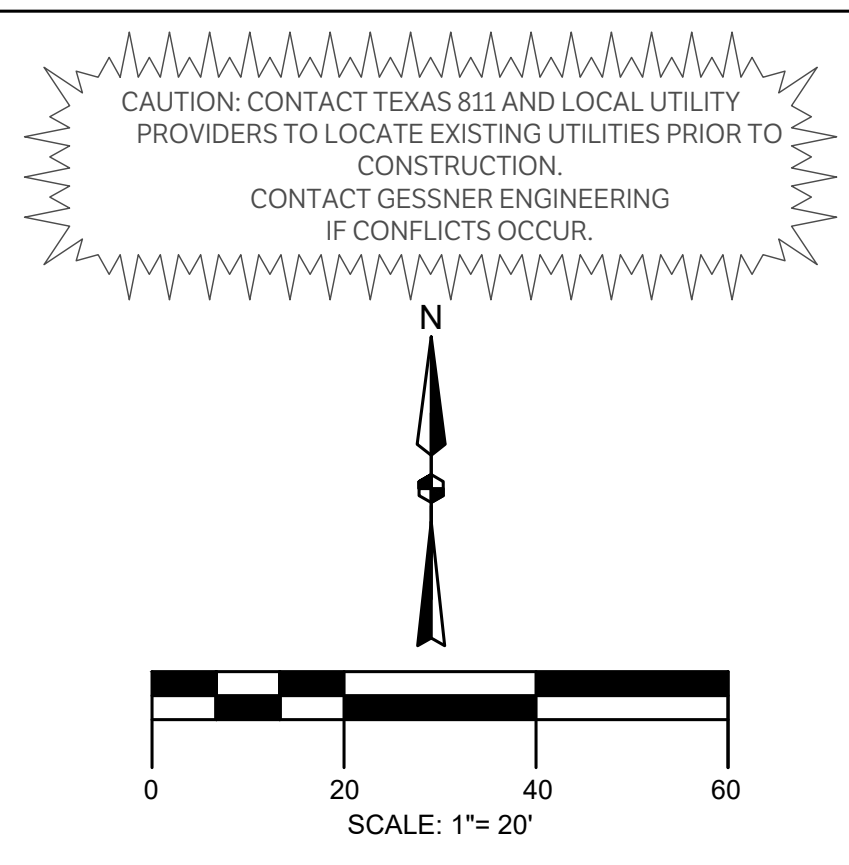
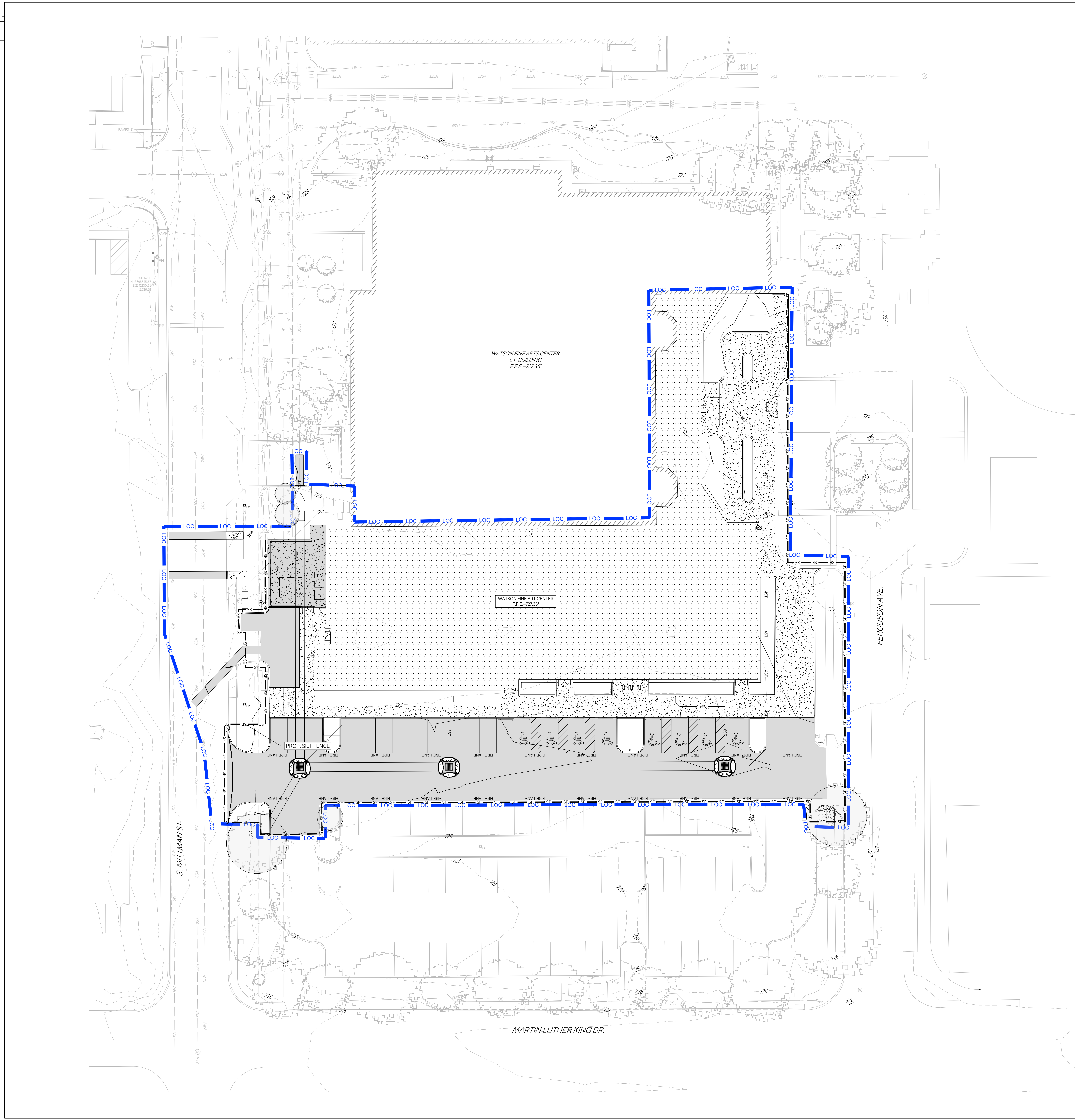


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER		

WATER PLAN & PROFILES

C1000

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.

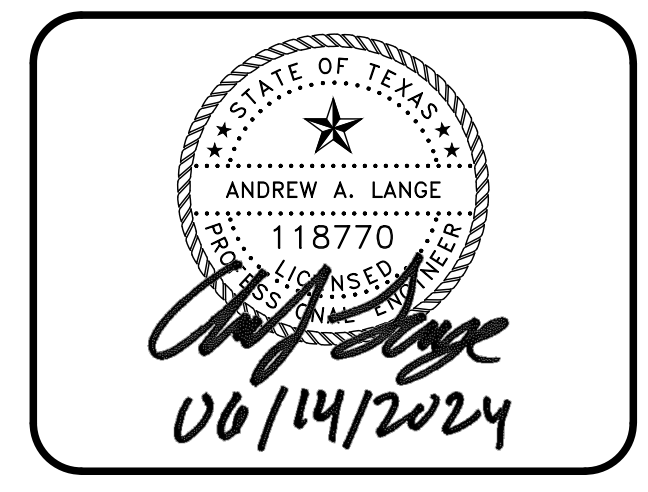
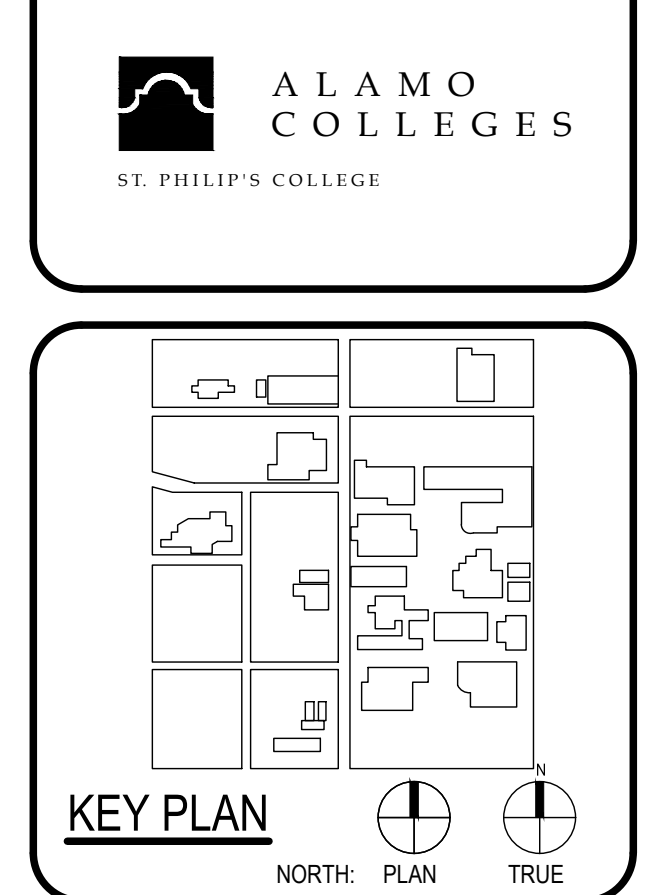
- GENERAL EROSION CONTROL NOTES**
1. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER 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.
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 West Suite 100 San Antonio, TX 78201 210-441-0000	
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0000	
ENGINEER	LUNY & HARRIS ENGINEERING
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0000	
PROVIDER	MEAN PROFESSIONALS
1711 W. Loop West Suite 100 San Antonio, TX 78201 210-441-0000	

WFAC Black Box Addition PKG 1

ST. PHILLIP'S COLLEGE
600 S Mittleman 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.

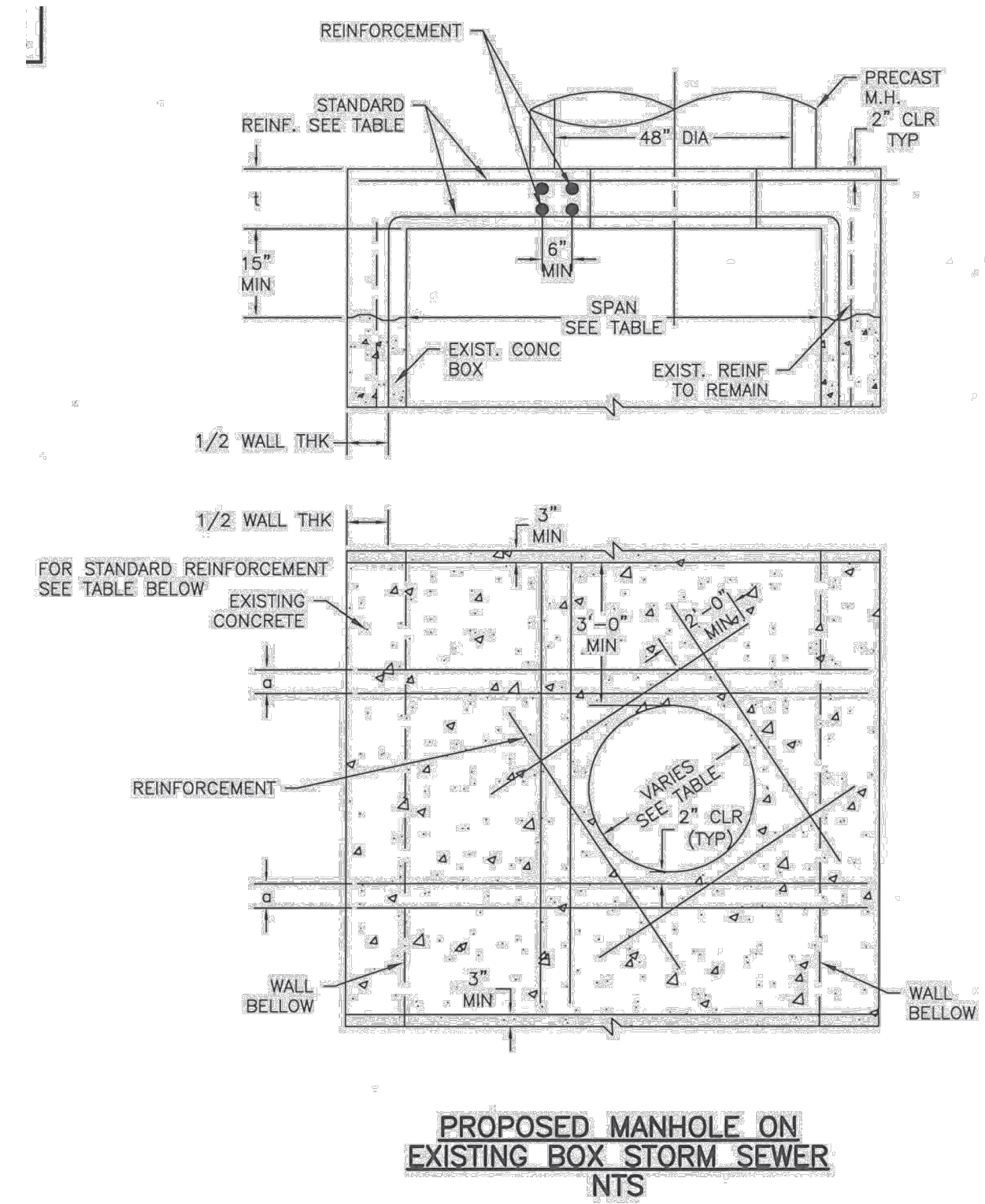
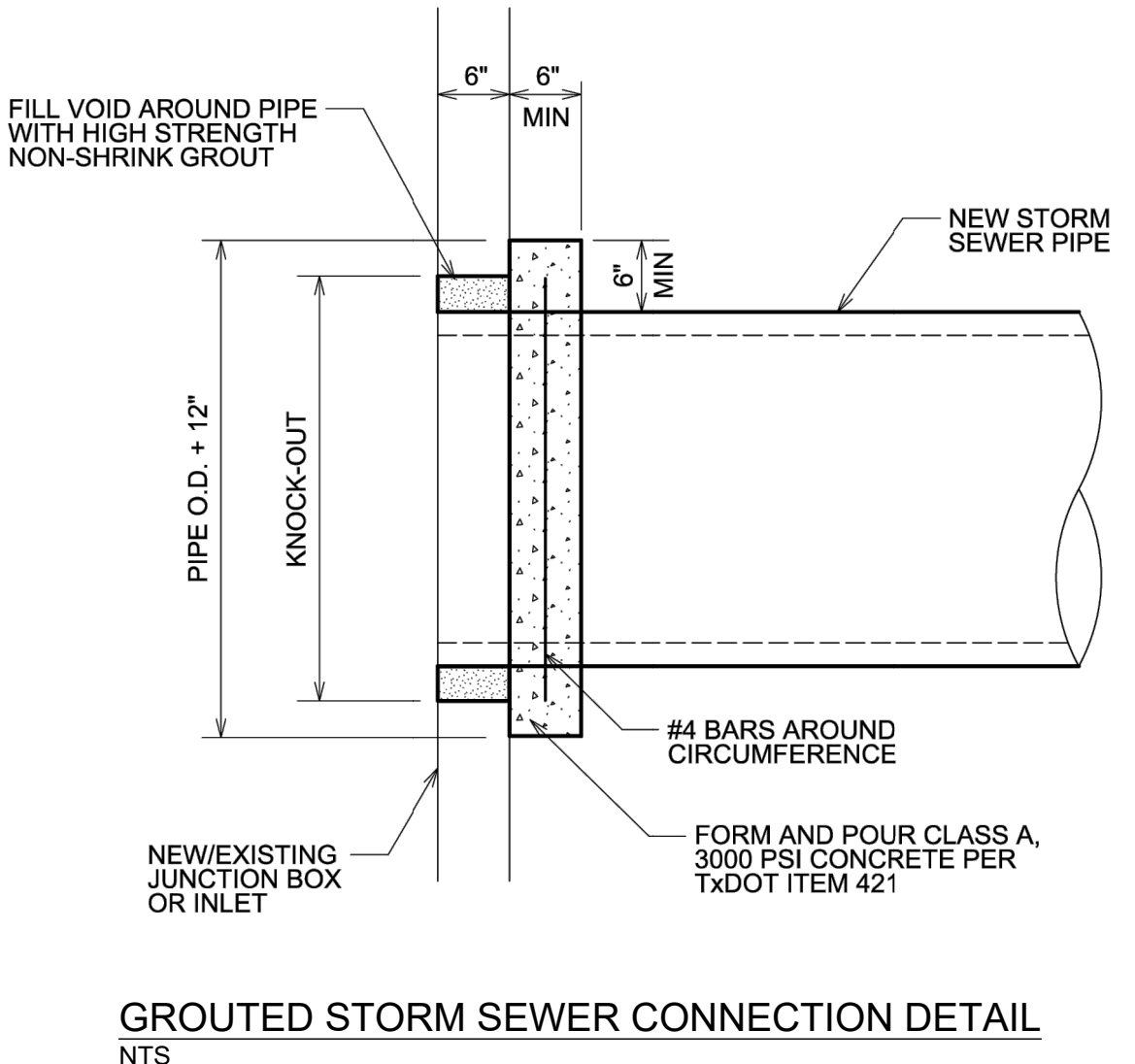
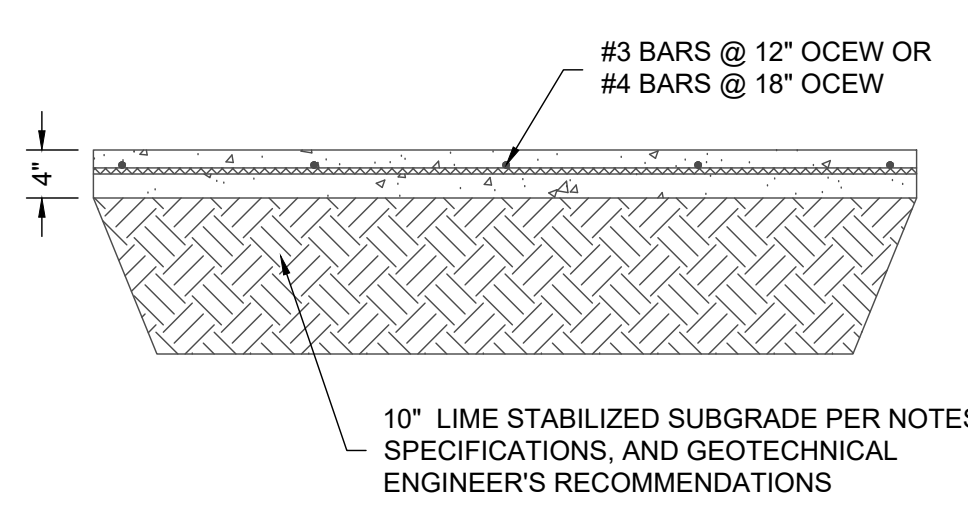
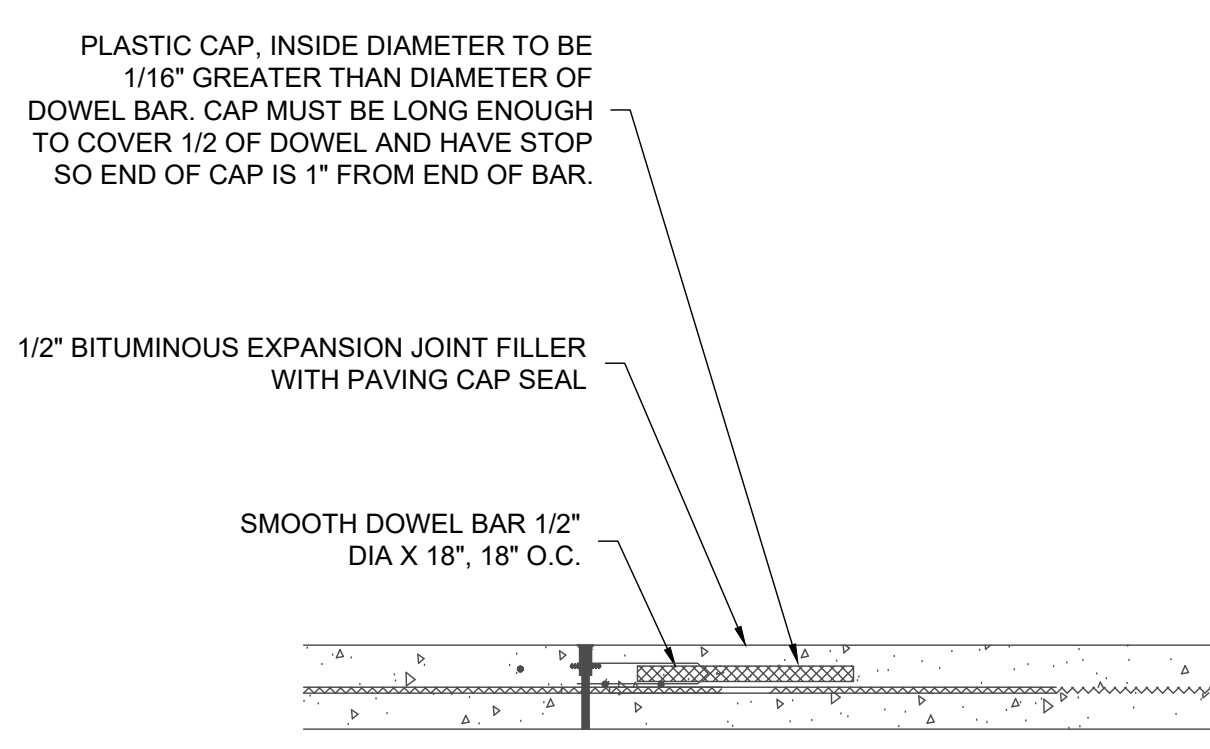
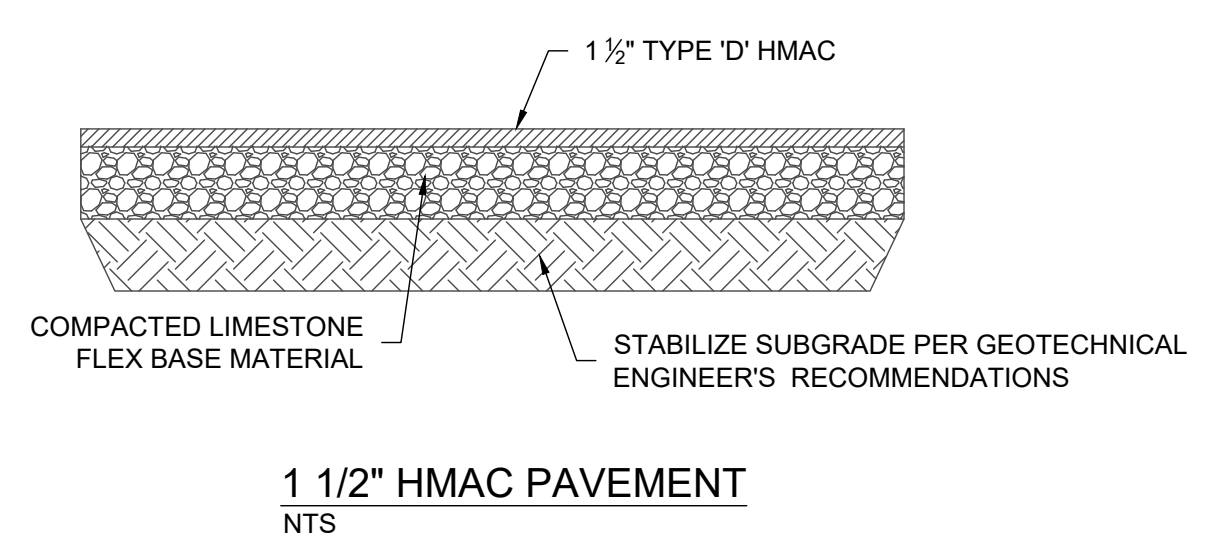
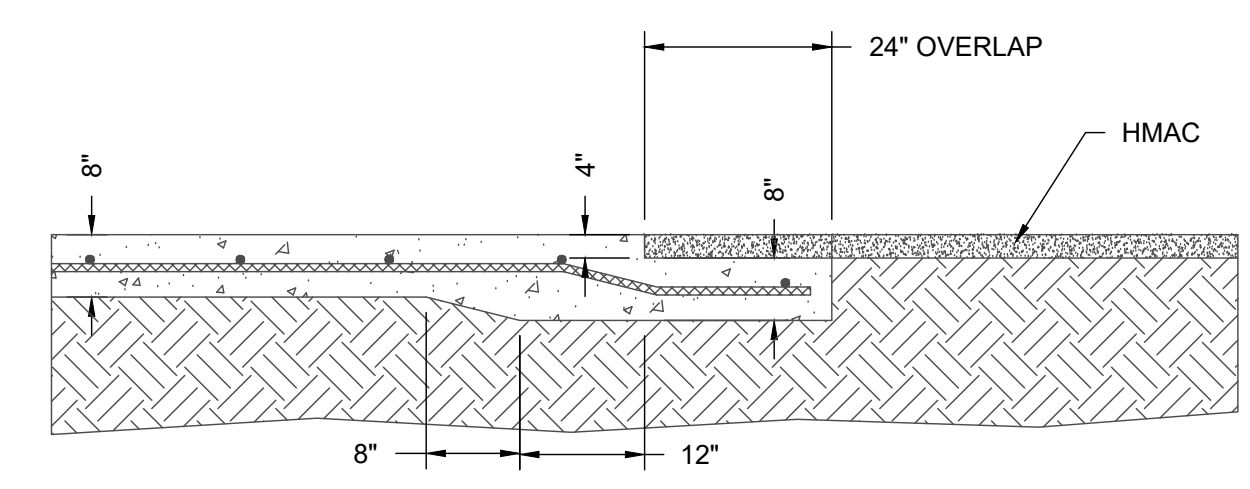
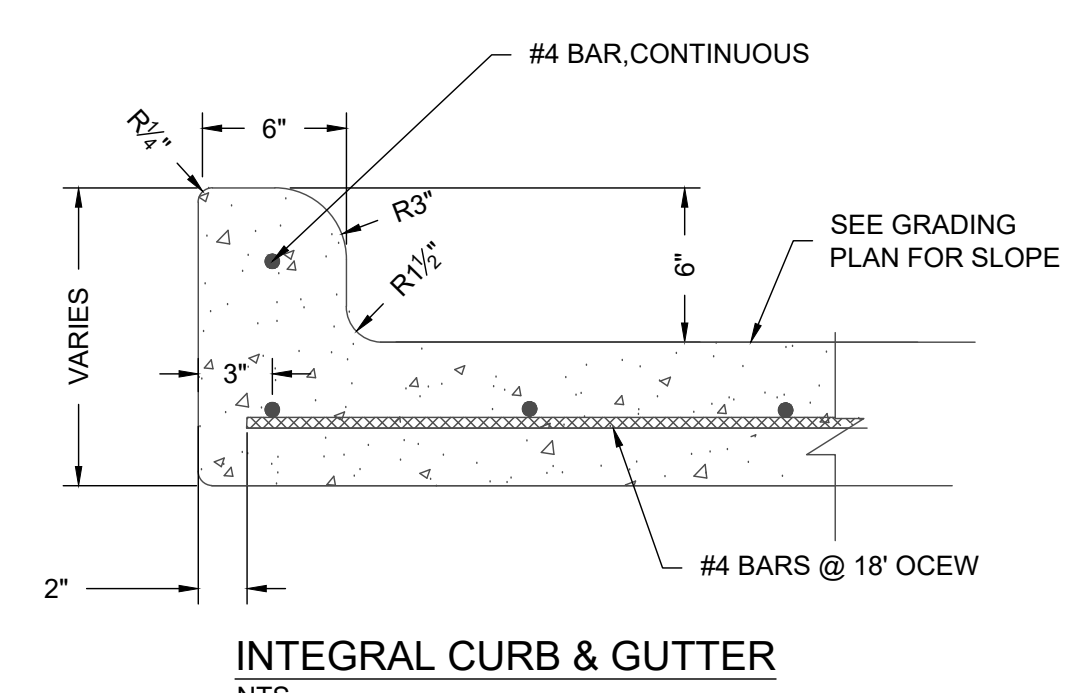


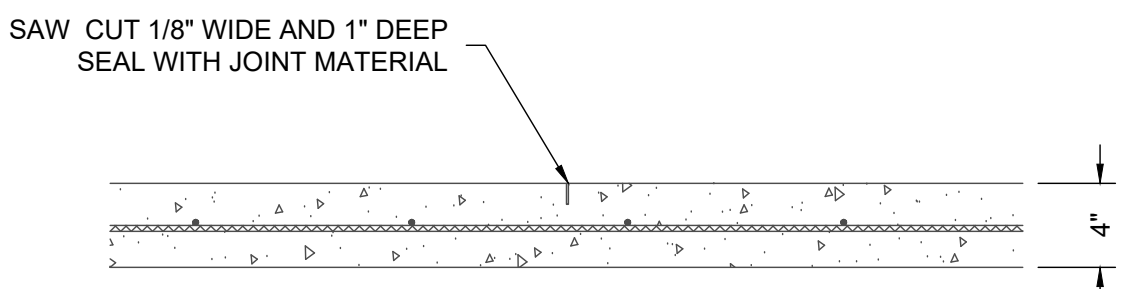
TABLE
SEWER SIZE VS. OPENING

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



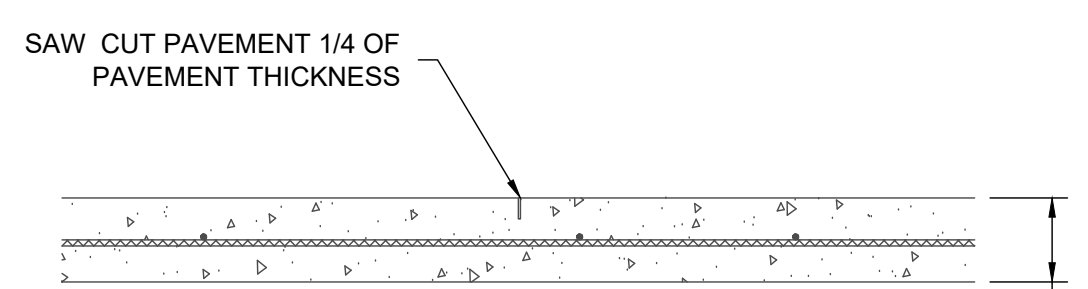
- NOTES:**
- SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
 - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
 - SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING JOINT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

SIDWALK EXPANSION JOINT
NTS

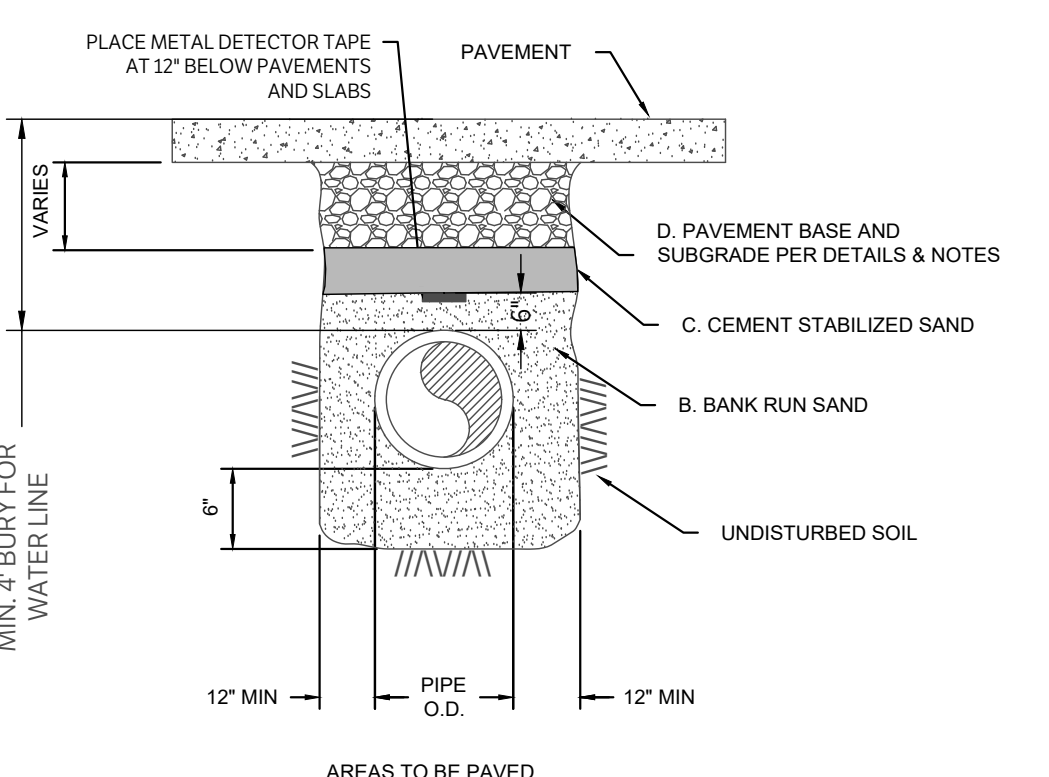
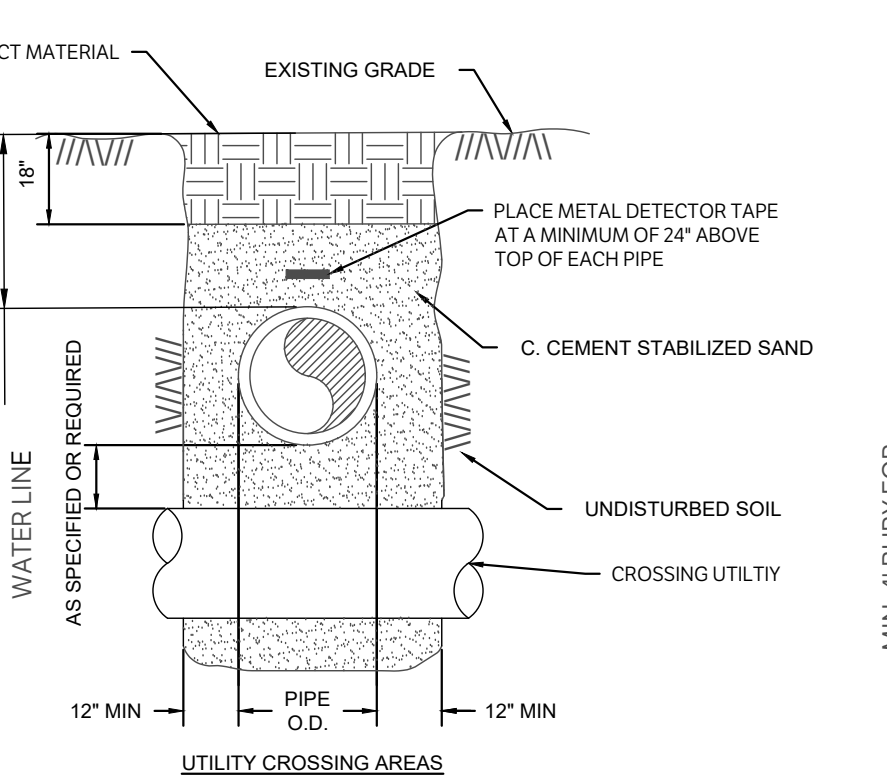
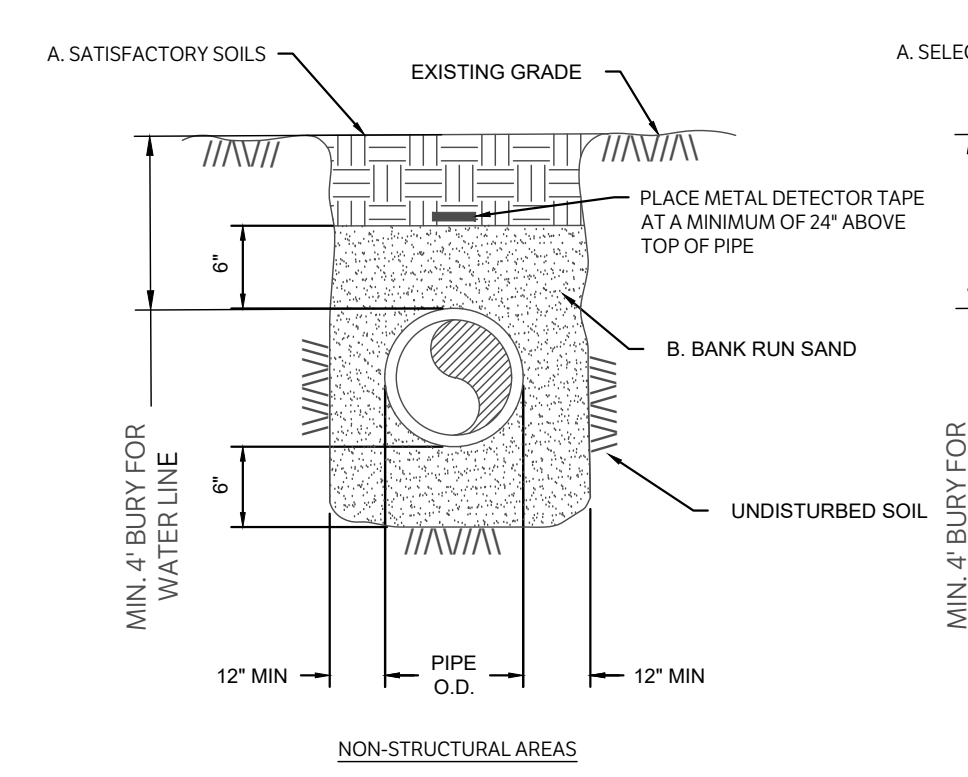


NOTE:
SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

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.

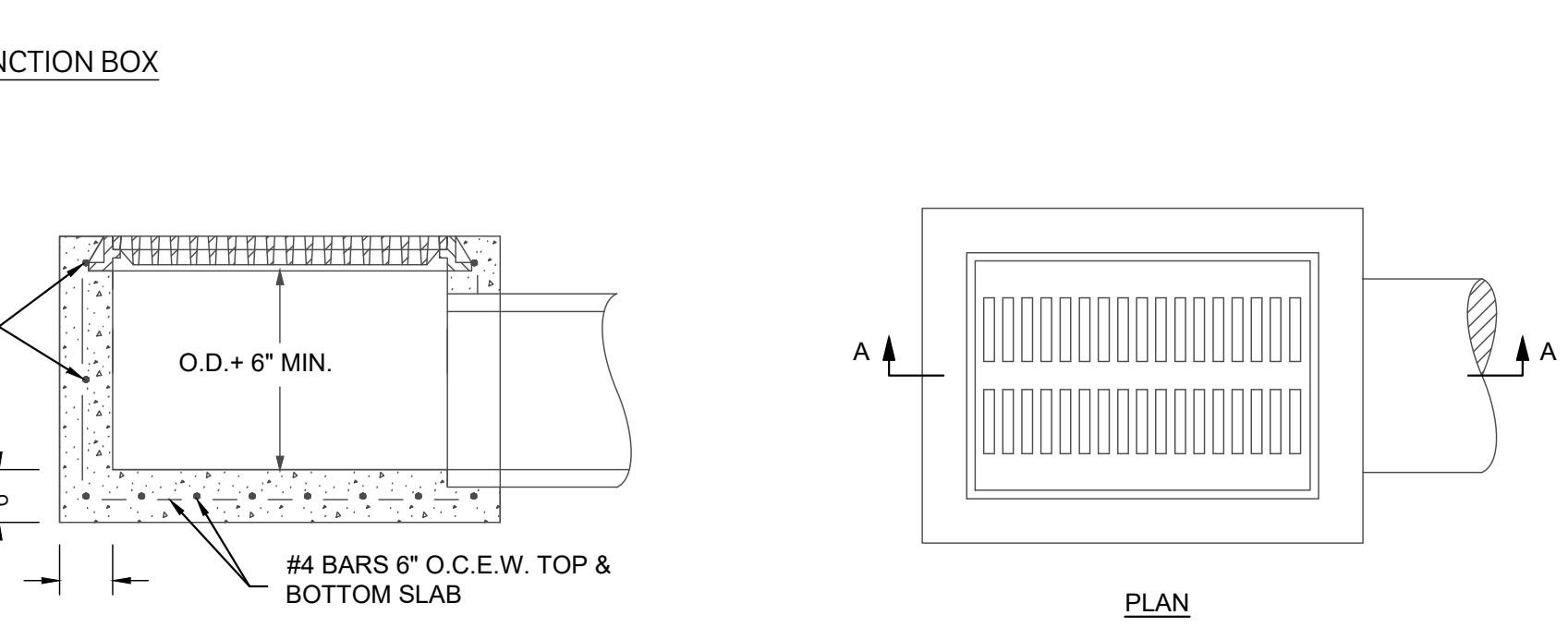
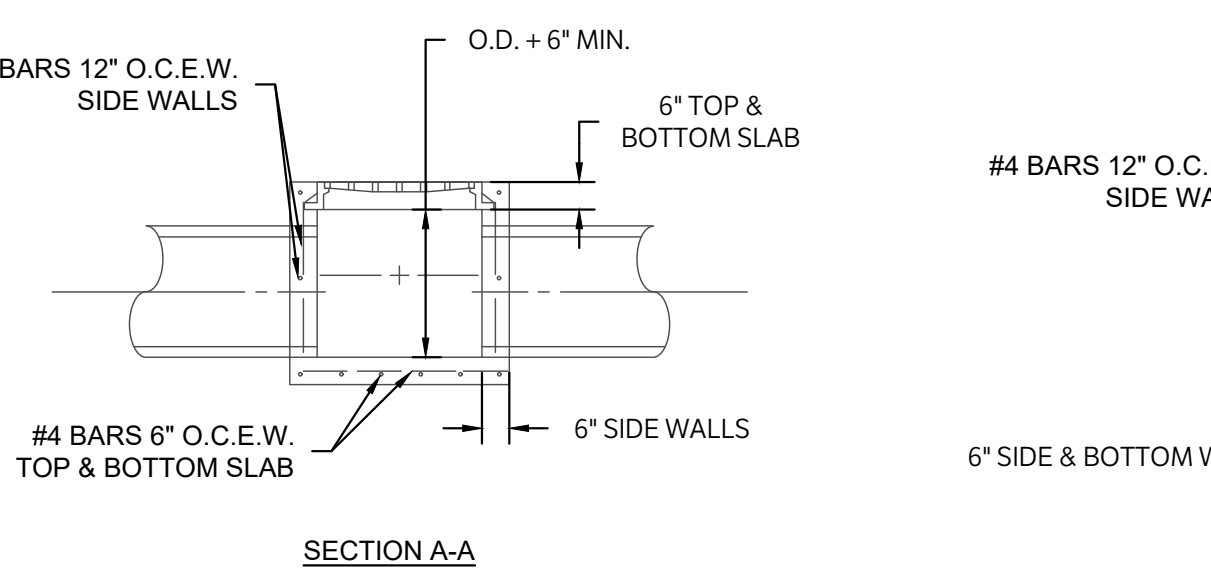
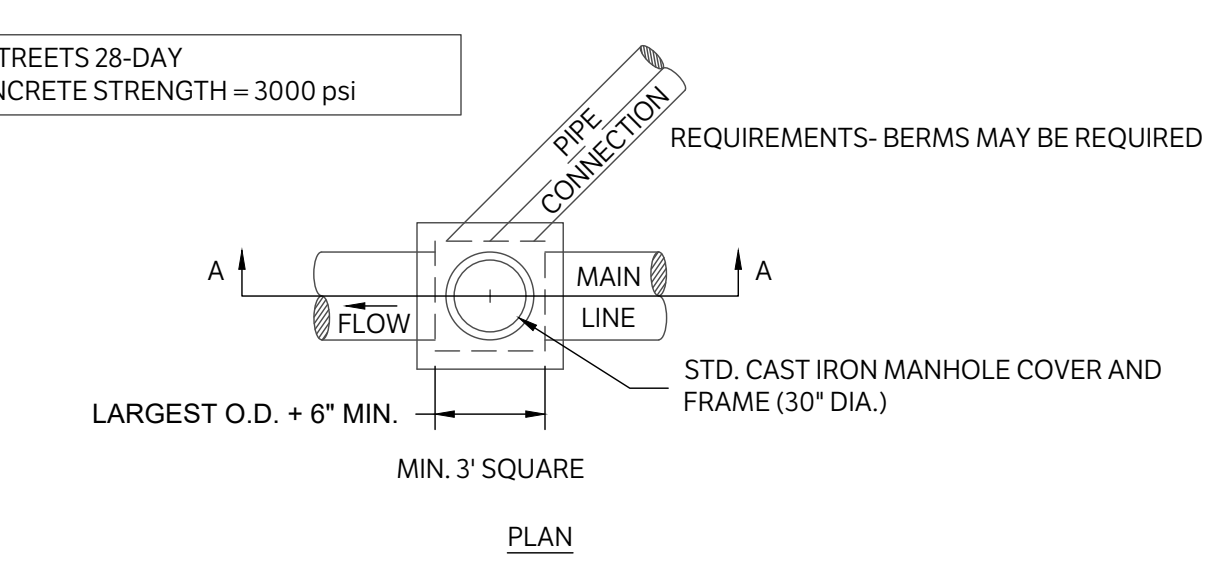
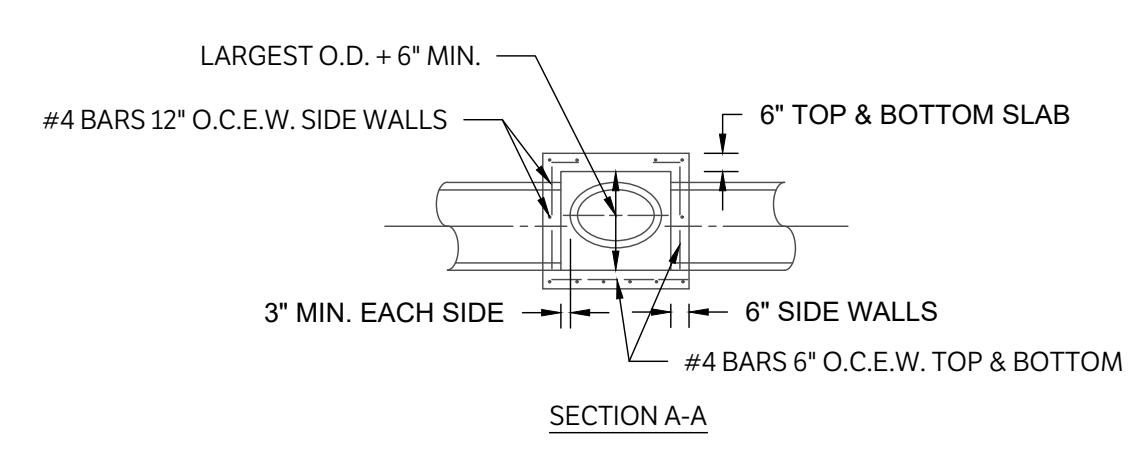
GENERAL NOTES:
ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SOODED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOO WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SOODED WITHIN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

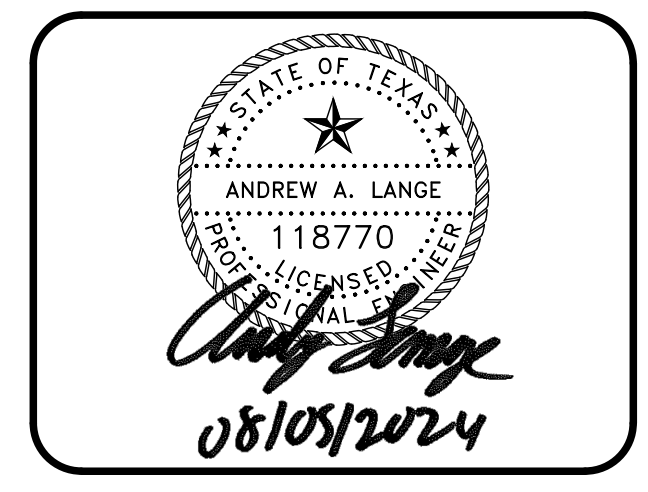
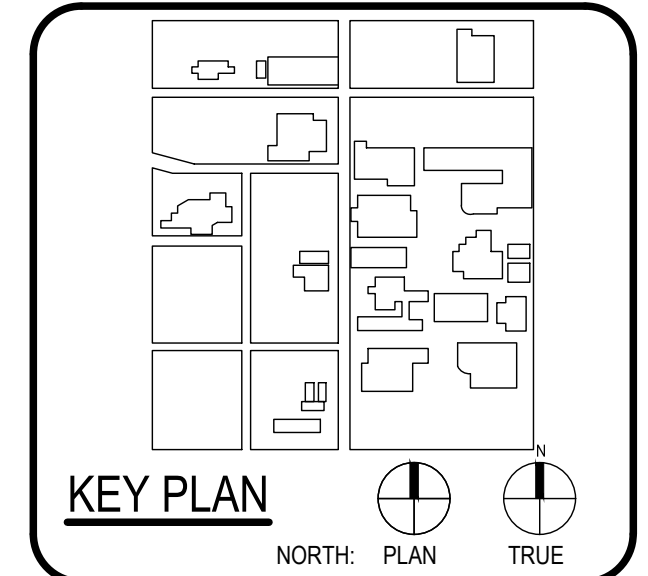
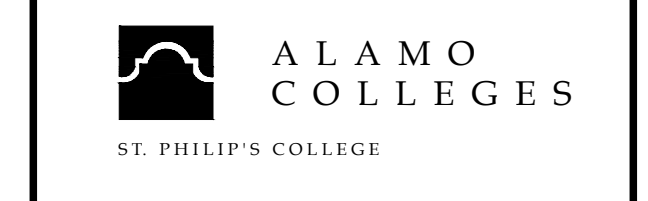
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.

- 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 HOPE PIPE COMPACTON SHALL BE ATTAINED BY MECHANICAL TAMPING
 - RELATIVE COMPACTON 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.
 - HOPE LINES WITH WELDED JOINTS MAY BE BACKFILLED PRIOR TO TESTING AT CONTRACTOR'S RISK.



ARCHITECT PBK Architects, Inc.
SAN ANTONIO
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 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

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

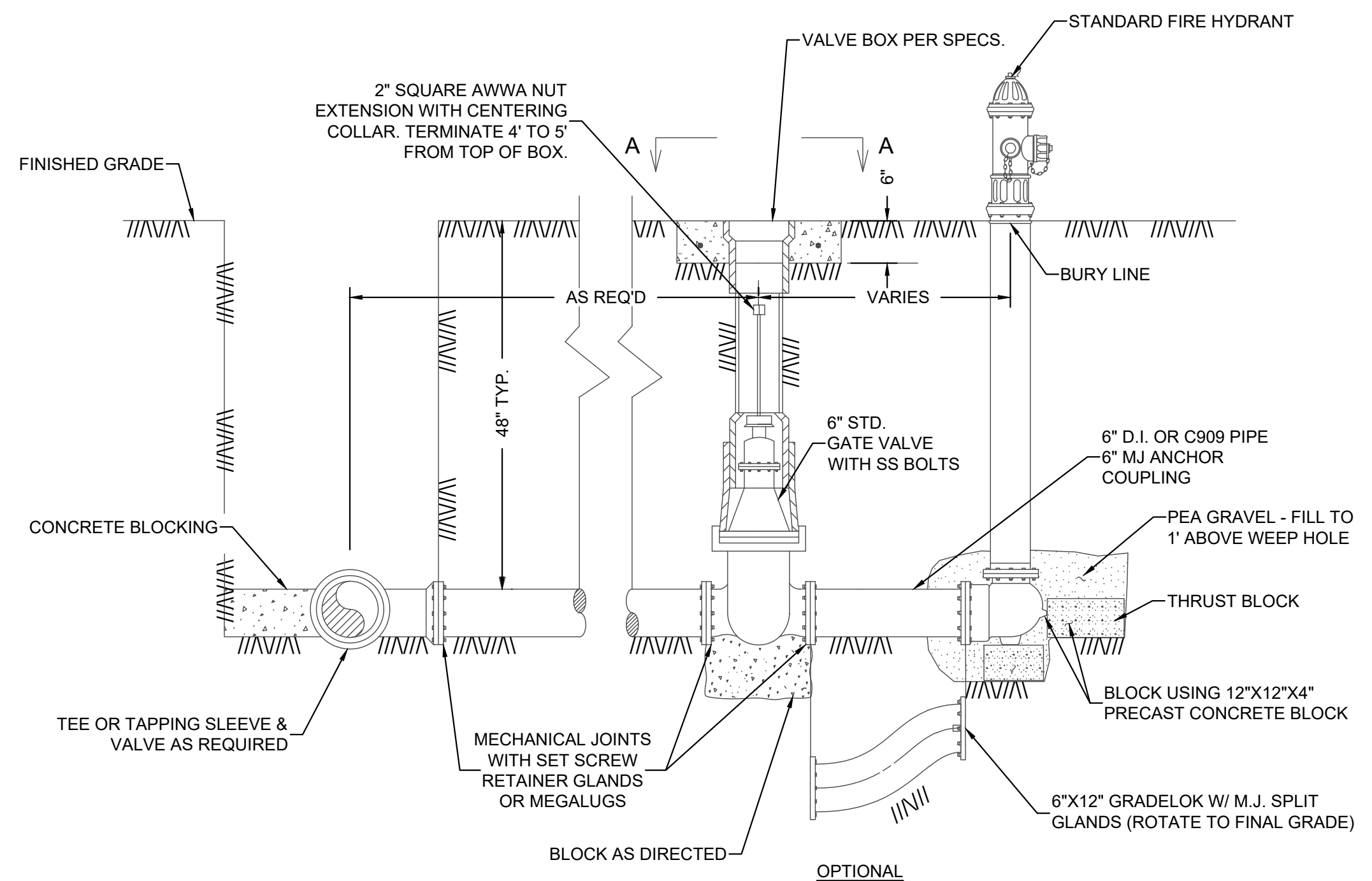
ISSUE FOR PERMIT

DETAILS

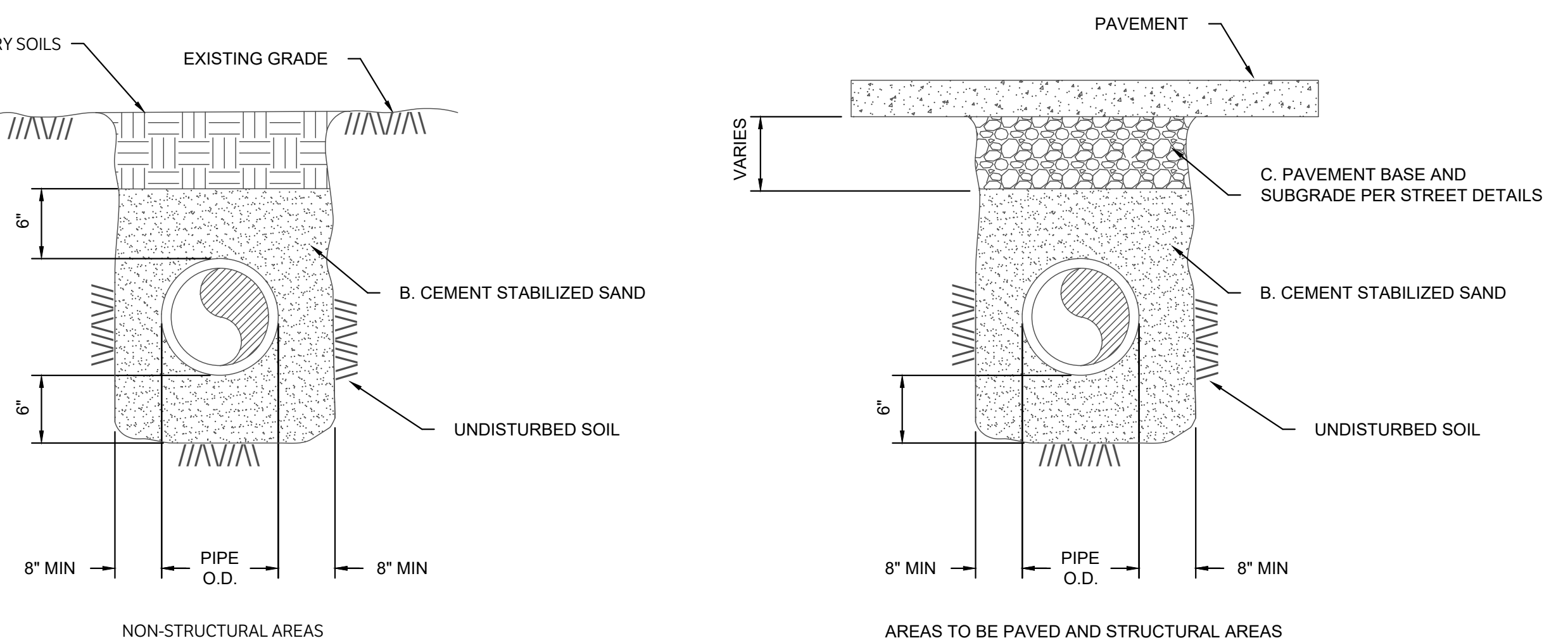
C1200

GENERAL NOTES:

- FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND, AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
- ALL CONCRETE BLOCKING SHALL BE - 28 DAY CONCRETE STRENGTH = 2000psi.
- ALL THRUST BLOCKING SHALL PROVIDE A MINIMUM OF 2 SQUARE FEET OF BEARING AREA OF CONCRETE ON UNDISTURBED SOIL, OR AS DIRECTED BY THE ENGINEER.
- WATER MAINS WILL NOT BE FULLY PRESSURIZED UNTIL CONCRETE HAS REACHED 7 DAY STRENGTH.
- ALL PIPE WILL BE LAID SO AS THE ENTIRE BARRELL WILL HAVE FULL BEARING ON THE FINE GRADED TRENCH BOTTOM. BELL HOLES SHALL BE CUT FOR EACH BELL AND FIRE HYDRANT.
- ALL FITTINGS SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE DIRECTED.
- HYDRANTS SHALL BE LOCATED NO CLOSER THAN 3 FEET MEASURED FROM THE BACK OF CURB TO THE FACE OF THE STEAMER ON THE FIRE HYDRANT.



STANDARD FIRE HYDRANT ASSEMBLY NTS



BEDDING AND TRENCH FOR REINFORCED CONCRETE PIPE NTS

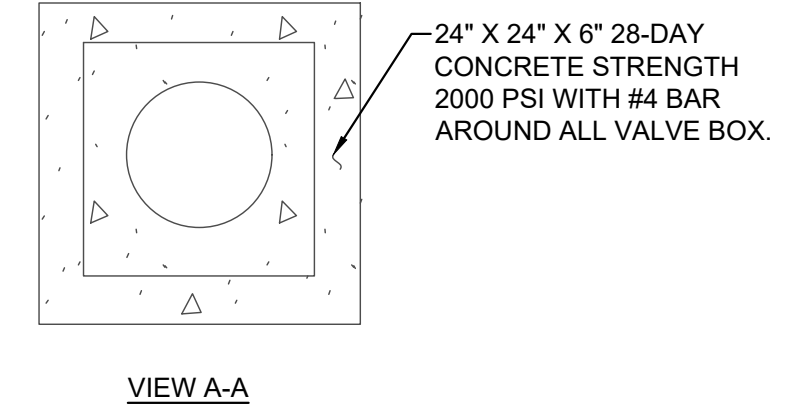
- A. SATISFACTORY SOILS**
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER NON-STRUCTURAL AREAS (IE., YARDS, PASTURES, EASEMENTS) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM UNDER PAVED AREAS.
- B. CEMENT STABILIZED SAND**
MATERIALS SHALL BE TYPE I 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 SACKS OF CEMENT PER CUBIC YARD OF MIXTURE), COMPACT MIX TO 95% OF ASTM D558 WITH A MOISTURE CONTENT BETWEEN -2% TO 2% ABOVE OPTIMUM.
- C. PAVEMENT SUBGRADE**
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

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

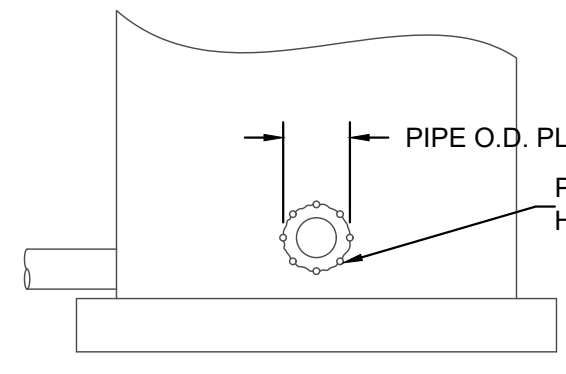
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARRED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

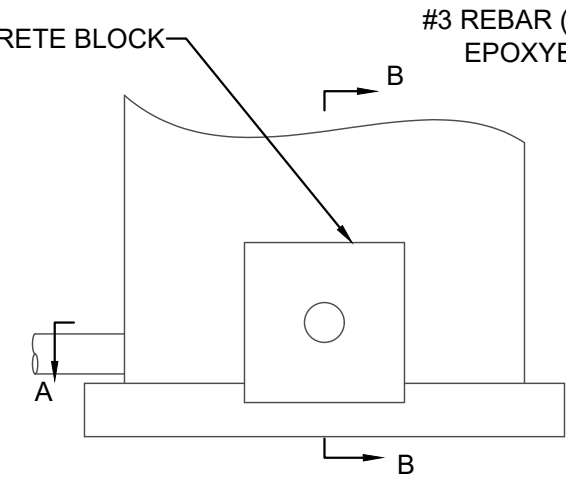
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM



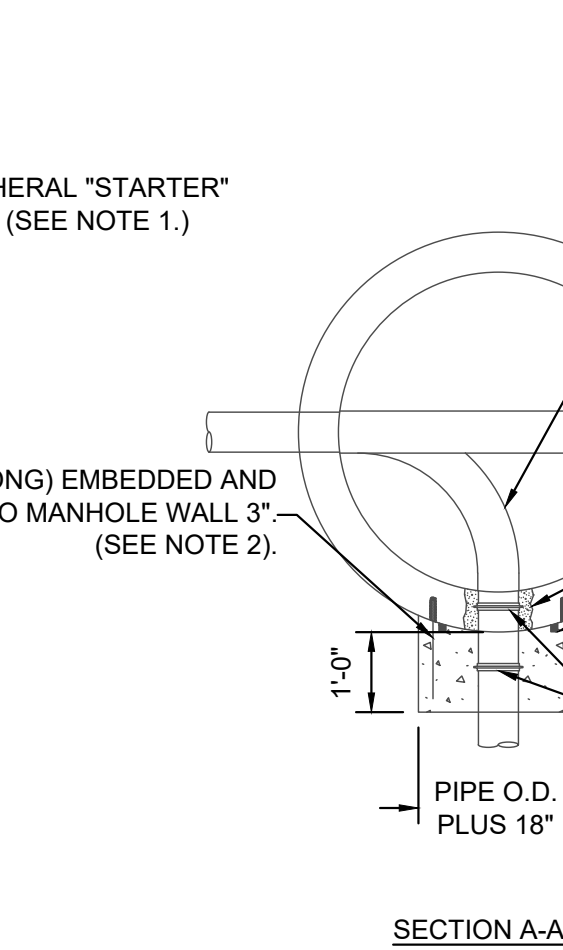
VIEW A-A



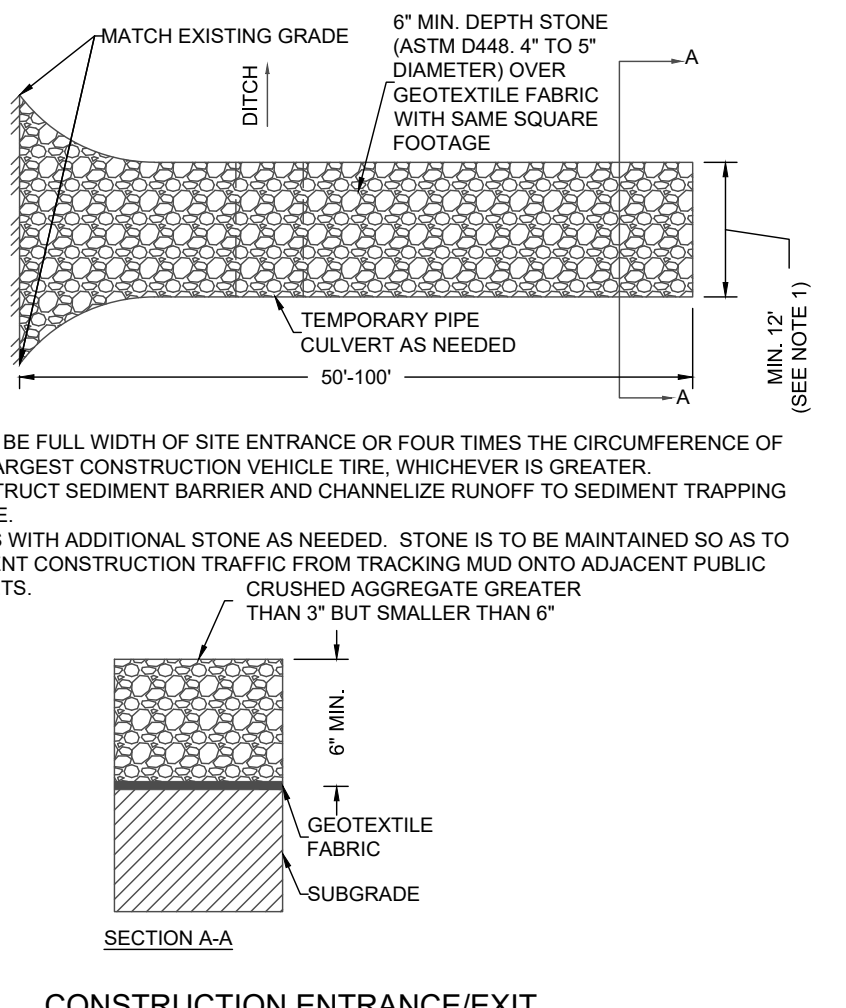
OPENING CREATION DETAIL



MANHOLE CONNECTION DETAIL

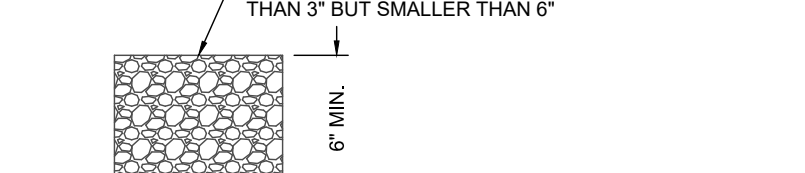


STANDARD MANHOLE TIE-IN NTS

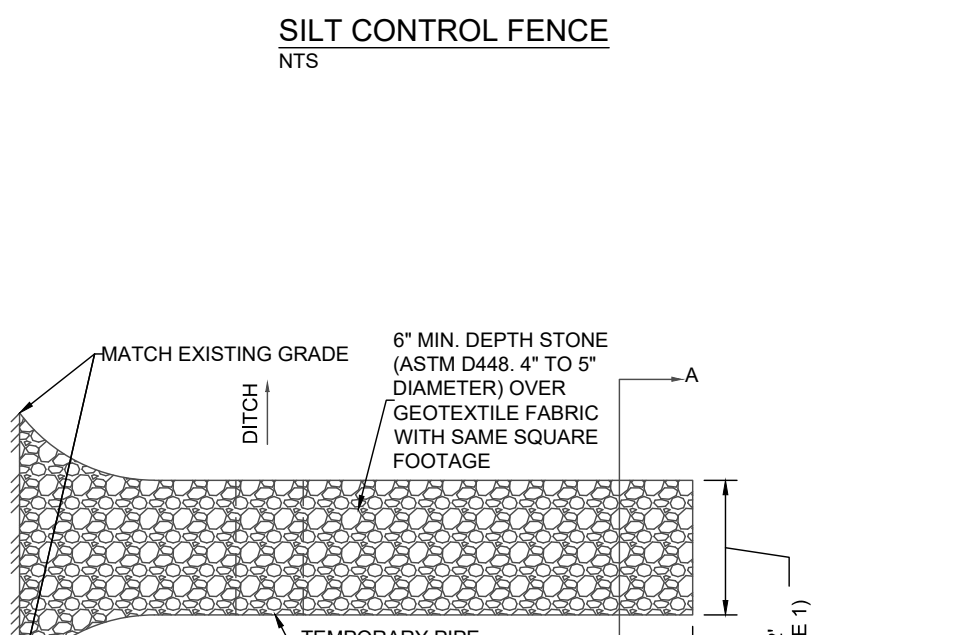


CONSTRUCTION ENTRANCE/EXIT NTS

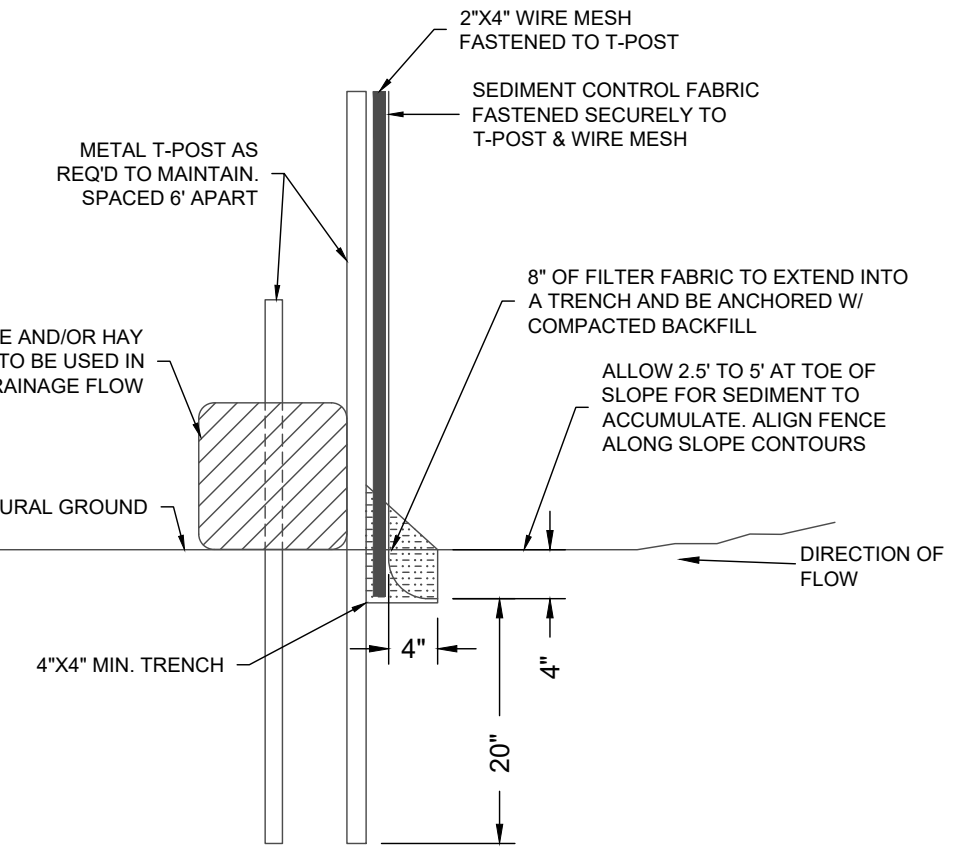
- NOTES:**
- SHALL BE FULL WIDTH OF SITE ENTRANCE OR FOUR TIMES THE CIRCUMFERENCE OF THE LARGEST CONSTRUCTION VEHICLE TIRE, WHICHEVER IS GREATER.
 - CONSTRUCT SEDIMENT BARRIER AND CHANNELIZE RUNOFF TO SEDIMENT TRAPPING DEVICE.
 - DRESS WITH ADDITIONAL STONE AS NEEDED. STONE IS TO BE MAINTAINED SO AS TO PREVENT CONSTRUCTION TRAFFIC FROM TRACKING MUD ONTO ADJACENT PUBLIC STREETS.



SECTION A-A

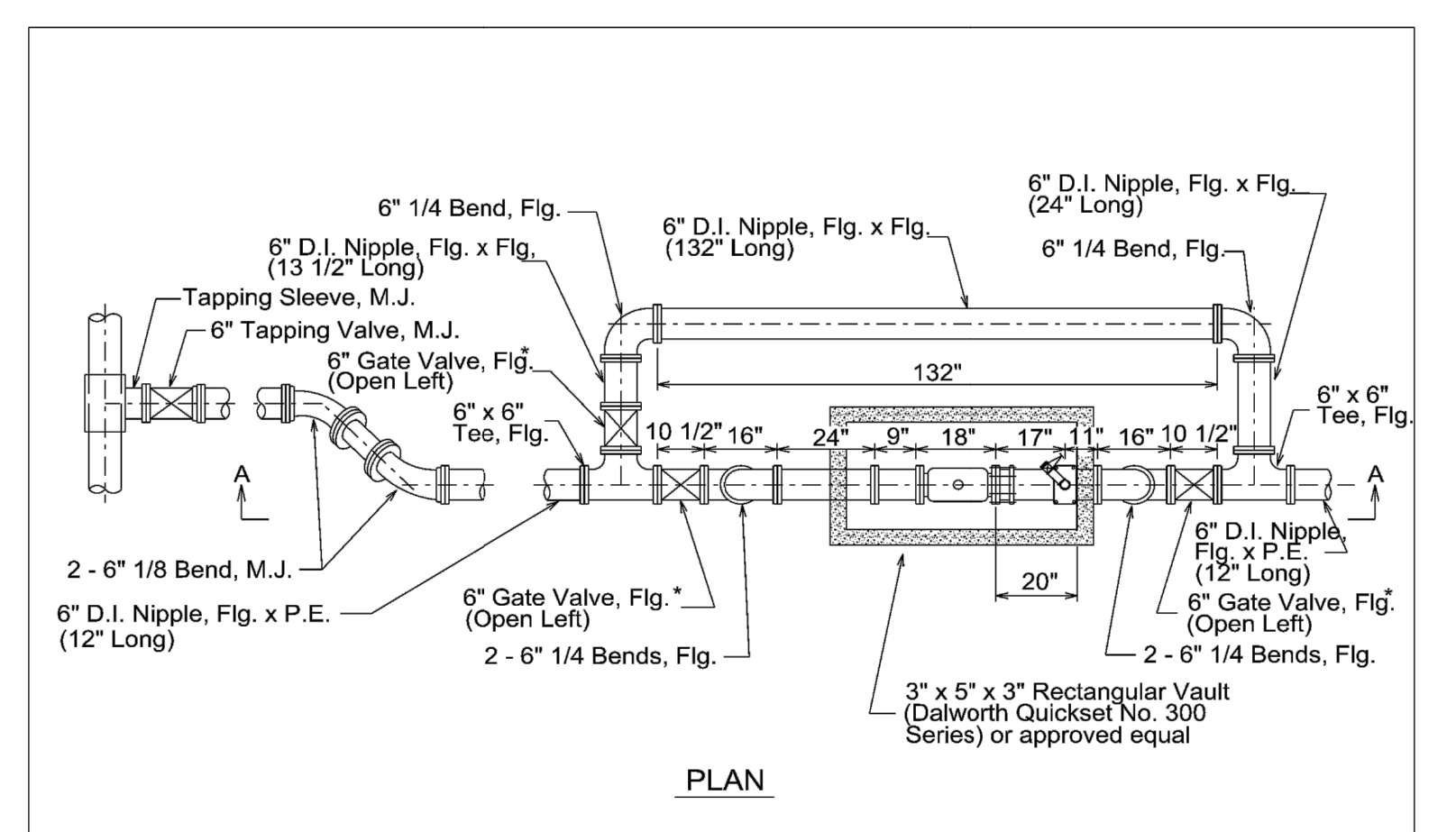


SILT CONTROL FENCE NTS

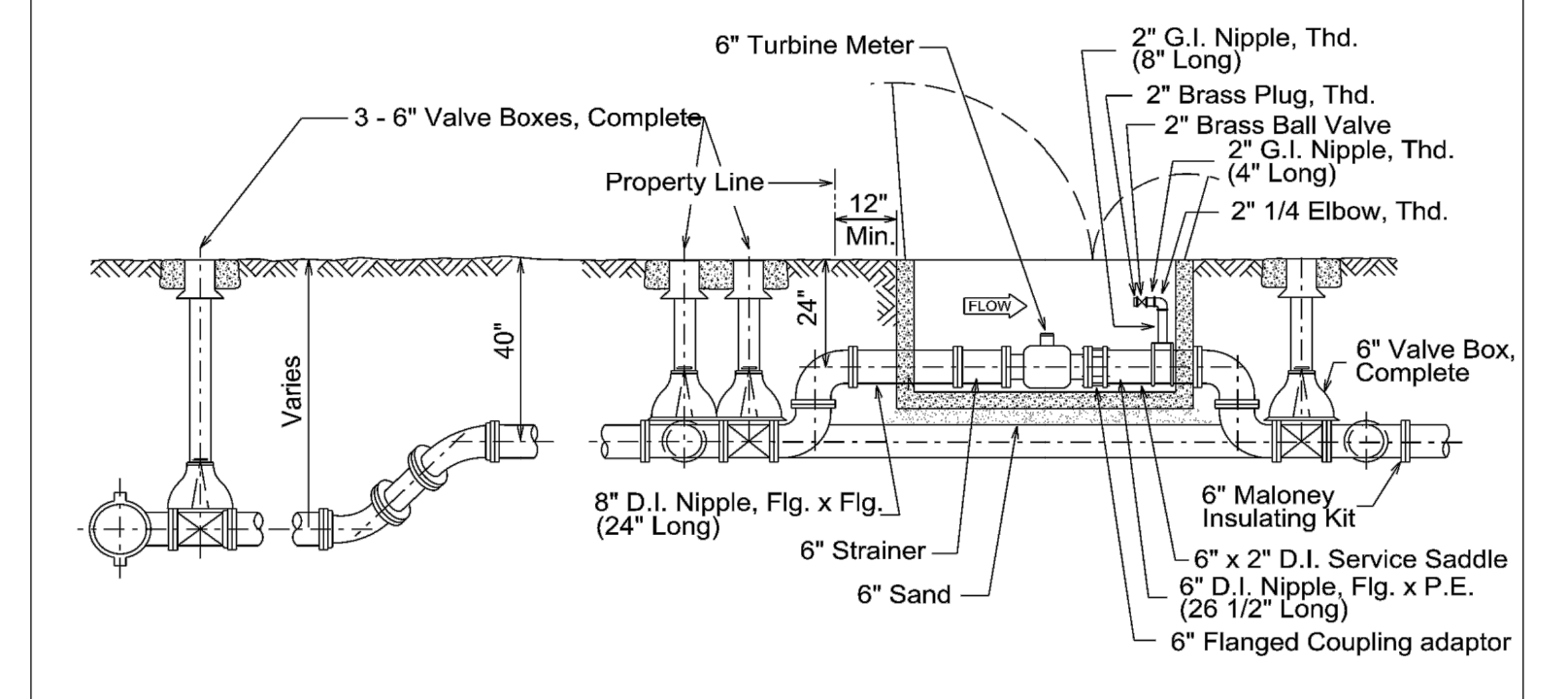


PVC EMBEDMENT TRENCH

- NOTES:**
- GRANULAR BACKFILL SHALL MEET THE SPECIFICATIONS OF TxDOT TYPE A.
 - ONSITE MATERIAL FOR FILL SHALL BE FREE OF DEBRIS AND GRAVEL LARGER THAN 2" IN DIAMETER.
 - UNDER PAVED AREAS, ONSITE FILL SHALL BE STABILIZED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. BACKFILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
 - UNDER NON-PAVED AREAS, ONSITE FILL MAY BE USED AND SHALL BE COMPACTED IN 10" LIFTS TO 90% STANDARD PROCTOR DENSITY.

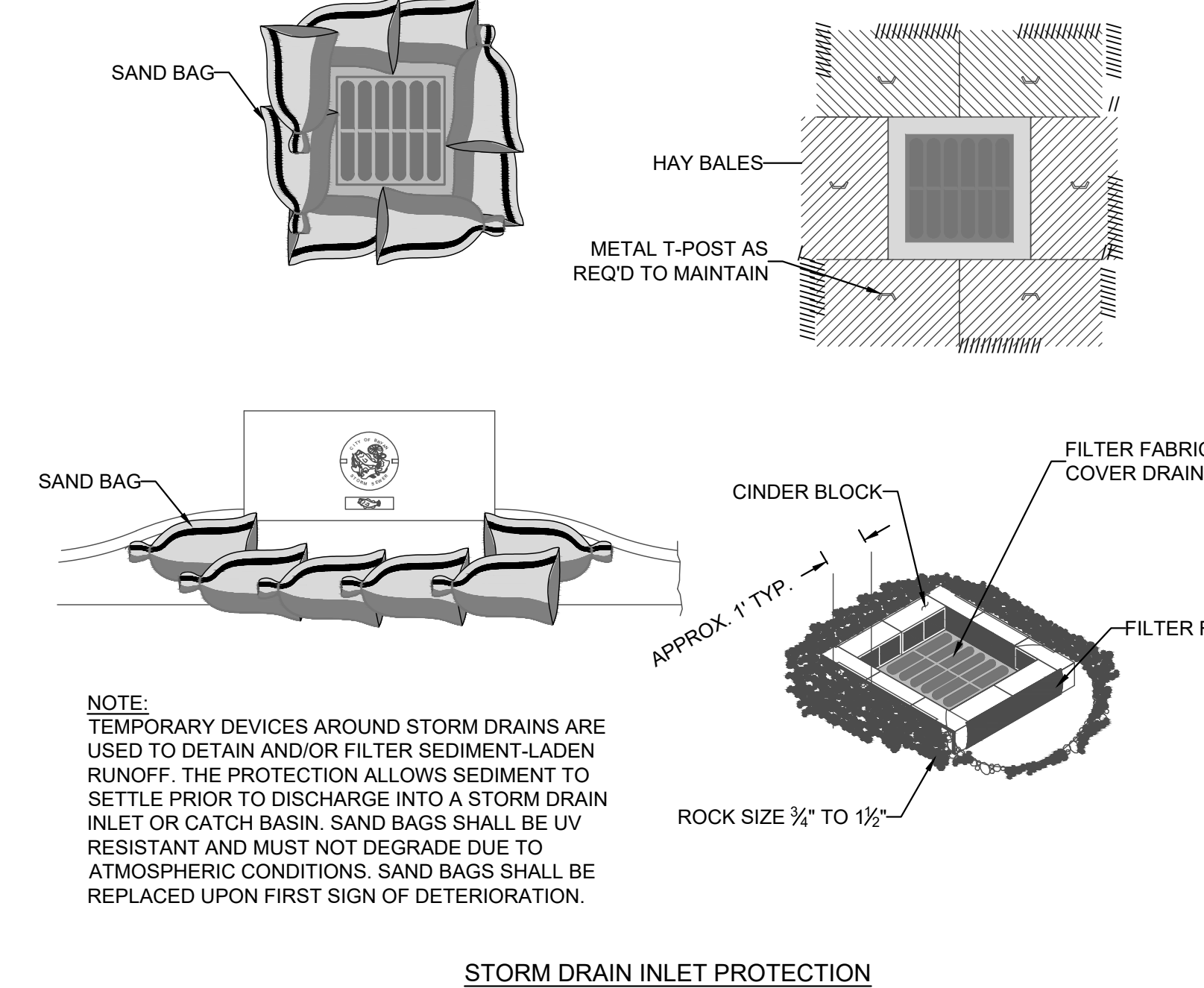


PLAN



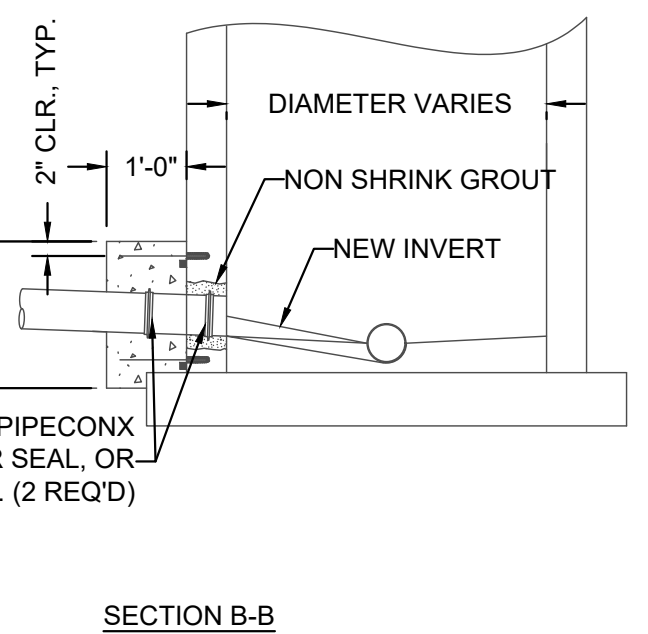
SECTION A-A

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	6" TURBINE METER INSTALLATION	APPROVED March 2008	REVISED AUG 2019
		DD-824-09	
		SHEET 2 OF 2	



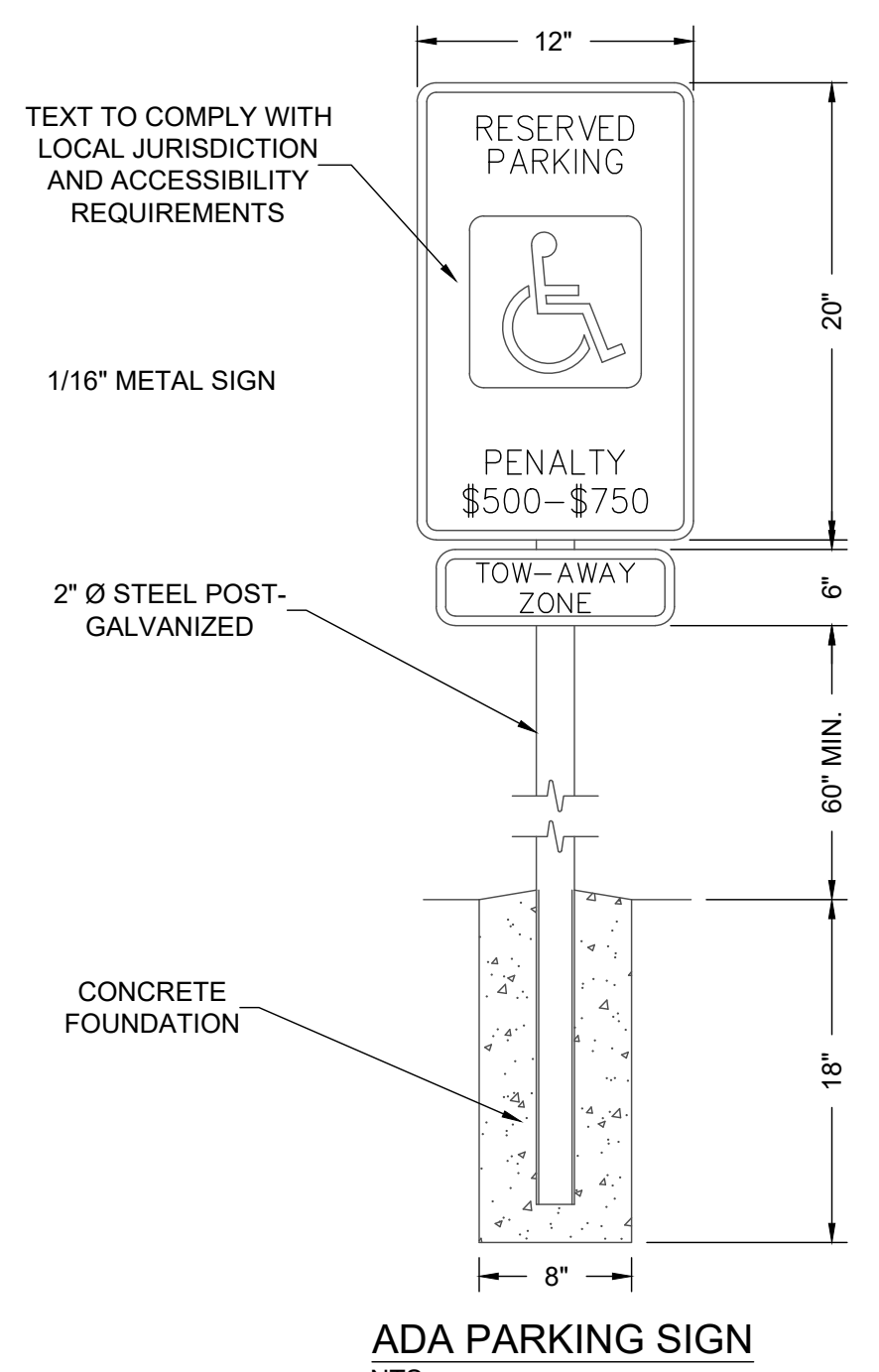
STORM DRAIN INLET PROTECTION NTS

- NOTE:**
TEMPORARY DEVICES AROUND STORM DRAINS ARE USED TO DETAIN AND/OR FILTER SEDIMENT-LADEN RUNOFF. THE PROTECTION ALLOWS SEDIMENT TO SETTLE PRIOR TO DISCHARGE INTO A STORM DRAIN INLET OR CATCH BASIN. SAND BAGS SHALL BE UV RESISTANT AND MUST NOT DEGRADE DUE TO ATMOSPHERIC CONDITIONS. SAND BAGS SHALL BE REPLACED UPON FIRST SIGN OF DETRIORATION.



SECTION B-B

- NOTE:**
- 1" DIA. "STARTER HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE SPACED 3" APART CENTER TO CENTER. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
 - THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" OC.
 - WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 - CONCRETE SHALL BE 3,000 P.S.I.

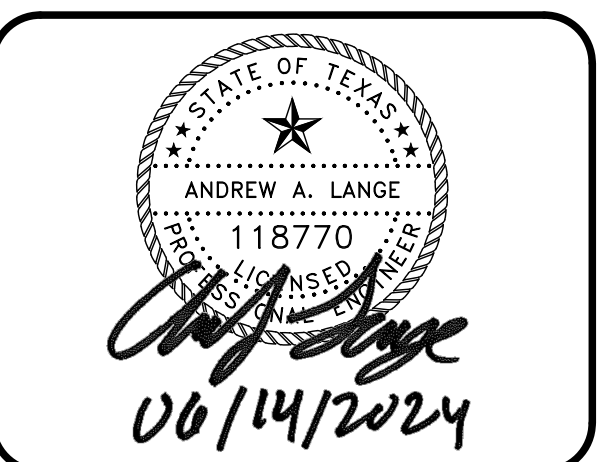
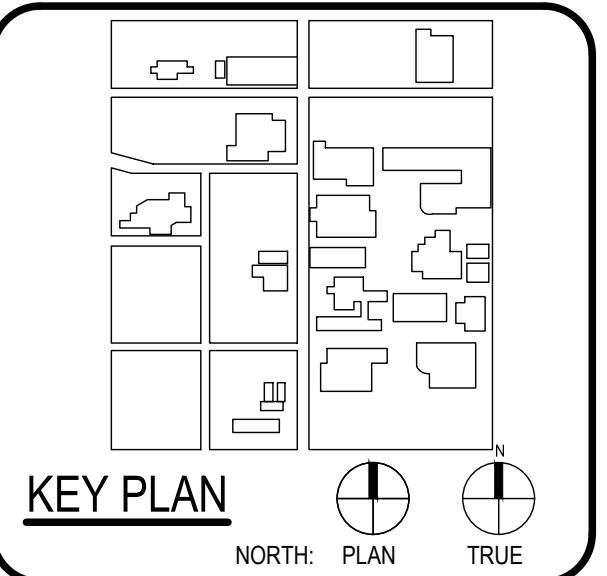
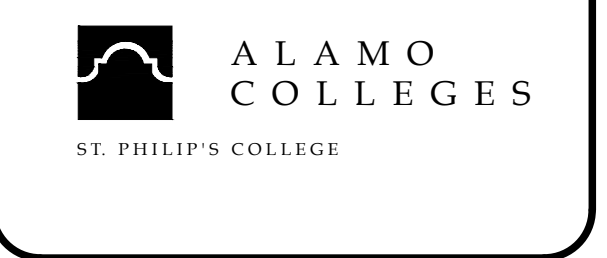


ADA PARKING SIGN NTS



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
ENGINEER	BA & ARCHITECTS
INSPECTOR	BA & ARCHITECTS
CONTRACTOR	BA & ARCHITECTS
DATE	06/14/2024
PROJECT	WFAC Black Box Addition
SHEET	2 OF 2

WFAC Black Box Addition PKG 1
 600 S Milman 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
DETAILS

ISSUE FOR CONSTRUCTION

REINFORCING STEEL

LOWER UNIT 10 X 3'-0" (TYPE B)				LOWER UNIT 10 X 5'-0" (TYPE B)			
BAR NO.	SIZE	SPAC.	LENGTH	BAR NO.	SIZE	SPAC.	LENGTH
A	#4	12"	10'-0"	A	#4	12"	10'-0"
B	#4	12"	4'-0"	B	#4	12"	5'-0"
B1	#4	12"	4'-0"	B1	#4	12"	4'-0"
C	#4	12"	10'-0"	C	#4	12"	10'-0"
D	#4	12"	4'-0"	D	#4	12"	4'-0"
E	#4	12"	10'-0"	E	#4	12"	10'-0"
F	#4	12"	4'-0"	F	#4	12"	4'-0"
G	#4	12"	10'-0"	G	#4	12"	10'-0"
H	#4	12"	4'-0"	H	#4	12"	4'-0"
I	#4	12"	10'-0"	I	#4	12"	10'-0"
J	#4	12"	4'-0"	J	#4	12"	4'-0"

GENERAL NOTES

- IF REBAR AND EXTENSION BAR IS IN ACCORDANCE WITH THE LATEST TOOL CARD REBAR TYPE 'C' AND EXTENSION TYPE 'E'.
- TYPE 'C' REBAR TO BE USED SHALL BE FROM ASTM A618, CLASS 358 WITH CURB INLET AND APPROVED BY THE ENGINEER.
- QUANTITIES SHOWN ARE FOR CONSTRUCTION INFORMATION ONLY.
- CONCRETE FOR STRUCTURE SHALL BE CLASS 'A' CONCRETE.
- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BAR.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 1.5".
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618, CLASS 358 REQUIREMENTS.
- ALL DEPRESSION COVERS SHALL BE COVERED 3" IF:
- DEPRESSION BAR SHALL RECEIVE A WOOD PLANT FROM:
- FACE OF INLET TO CONFORM TO FACE OF CURB LINE.
- ALL BARS REINFORCING MANHOLE RINGS & COVERS SHALL BE CUT ON BEND.
- PAYMENT FOR ALL REBAR SHALL BE MADE AT THE TIME OF ORDERING AND SHALL BE PAID TO THE SUPPLIER OF THE REBAR.
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
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- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.

PHASE CONSTRUCTION

NOTES FOR PHASE CONSTRUCTION WHEN DIRECTED BY THE ENGINEER:

- THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED TO A DEPTH TO BEAR THE WEIGHT OF THE CURB AND EXTENSION AND TO BE PROTECTED BY THE CURB AND EXTENSION.
- UPON THE CURB INLET AND EXTENSION WITH A REBAR PLATE APPROVED BY THE ENGINEER AND CONSTRUCT THE MANHOLE OVER THE CURB.
- UPON THE MANHOLE IS COMPLETED FROM THE FINAL FINISH COURSE TO THE MANHOLE ABOVE THE CURB AND COMPLETING THE UPPER PORTION OF THE CURB INLET AND FOR EXTENSION.
- ALL BARS AT THE SECOND LOCATIONS SHALL BE CUT ON BEND.
- ALL LOWER BARS SHALL RECEIVE WOOD PLANT FROM:
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
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- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.

CONCRETE INLET BOX CONFIGURATIONS (LOWER UNITS)

MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TYPE 'C' INLET (TYPE I & II) & INLET EXTENSION STANDARDS
SHEET 1 OF 3

REINFORCING STEEL (FOR Hu=11')

UPPER UNIT 10 X 3'-0" (TYPE B)				UPPER UNIT 10 X 5'-0" (TYPE B)			
BAR NO.	SIZE	SPAC.	LENGTH	BAR NO.	SIZE	SPAC.	LENGTH
A	#4	12"	10'-0"	A	#4	12"	10'-0"
B	#4	12"	4'-0"	B	#4	12"	5'-0"
C	#4	12"	10'-0"	C	#4	12"	10'-0"
D	#4	12"	4'-0"	D	#4	12"	4'-0"
E	#4	12"	10'-0"	E	#4	12"	10'-0"
F	#4	12"	4'-0"	F	#4	12"	4'-0"
G	#4	12"	10'-0"	G	#4	12"	10'-0"
H	#4	12"	4'-0"	H	#4	12"	4'-0"
I	#4	12"	10'-0"	I	#4	12"	10'-0"
J	#4	12"	4'-0"	J	#4	12"	4'-0"

GENERAL NOTES

- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
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- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.

MANHOLE LID & RING DETAIL (ITEM 409)

CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)

MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TYPE 'C' INLET (TYPE I & II) & INLET EXTENSION STANDARDS
SHEET 2 OF 3

REINFORCING STEEL (FOR Hu=11')

UPPER UNIT 10 X 3'-0" (TYPE B)				UPPER UNIT 10 X 5'-0" (TYPE B)			
BAR NO.	SIZE	SPAC.	LENGTH	BAR NO.	SIZE	SPAC.	LENGTH
A	#4	12"	10'-0"	A	#4	12"	10'-0"
B	#4	12"	4'-0"	B	#4	12"	5'-0"
C	#4	12"	10'-0"	C	#4	12"	10'-0"
D	#4	12"	4'-0"	D	#4	12"	4'-0"
E	#4	12"	10'-0"	E	#4	12"	10'-0"
F	#4	12"	4'-0"	F	#4	12"	4'-0"
G	#4	12"	10'-0"	G	#4	12"	10'-0"
H	#4	12"	4'-0"	H	#4	12"	4'-0"
I	#4	12"	10'-0"	I	#4	12"	10'-0"
J	#4	12"	4'-0"	J	#4	12"	4'-0"

GENERAL NOTES

- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
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- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.

INLET BOLTING DETAILS

CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)

MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TYPE 'C' INLET (TYPE I & II) & INLET EXTENSION STANDARDS
SHEET 3 OF 3

REINFORCING STEEL (FOR Hu=11')

UPPER UNIT 10 X 3'-0" (TYPE B)				UPPER UNIT 10 X 5'-0" (TYPE B)			
BAR NO.	SIZE	SPAC.	LENGTH	BAR NO.	SIZE	SPAC.	LENGTH
A	#4	12"	10'-0"	A	#4	12"	10'-0"
B	#4	12"	4'-0"	B	#4	12"	5'-0"
C	#4	12"	10'-0"	C	#4	12"	10'-0"
D	#4	12"	4'-0"	D	#4	12"	4'-0"
E	#4	12"	10'-0"	E	#4	12"	10'-0"
F	#4	12"	4'-0"	F	#4	12"	4'-0"
G	#4	12"	10'-0"	G	#4	12"	10'-0"
H	#4	12"	4'-0"	H	#4	12"	4'-0"
I	#4	12"	10'-0"	I	#4	12"	10'-0"
J	#4	12"	4'-0"	J	#4	12"	4'-0"

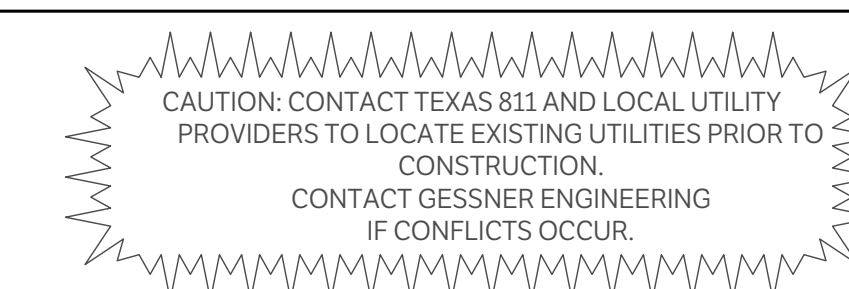
GENERAL NOTES

- FOR CURB INLET EXTENSION REINFORCING STEEL, REBAR AND COVER SHALL BE PLACED IN THE CURB INLET AND APPROVED BY THE ENGINEER.
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INLET BOLTING DETAILS

CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)

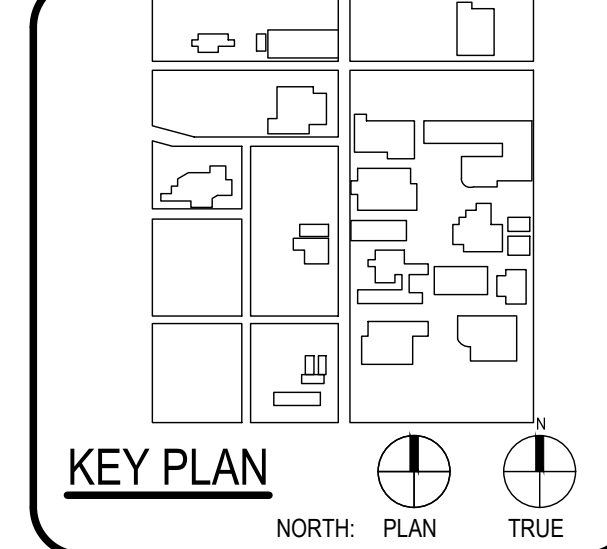
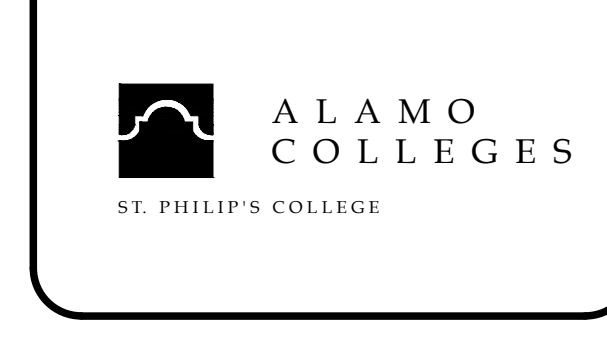
MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TYPE 'C' INLET (TYPE I & II) & INLET EXTENSION STANDARDS
SHEET 3 OF 3



ARCHITECT: 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

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	

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

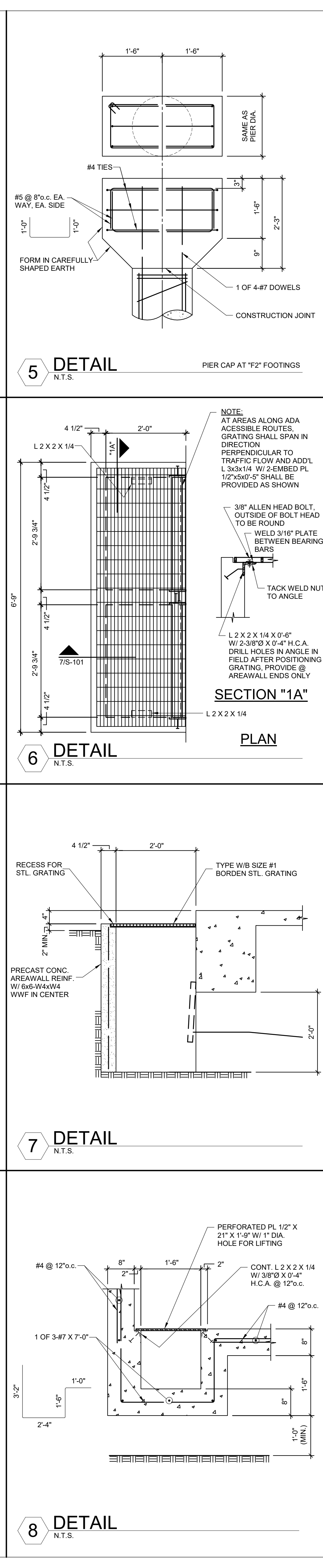


CLIENT	PROJECT NUMBER
Alamo Colleges	230462

No.	Description	Date
1	ISSUE FOR CONSTRUCTION	

ISSUE FOR CONSTRUCTION
BUILDING NUMBER

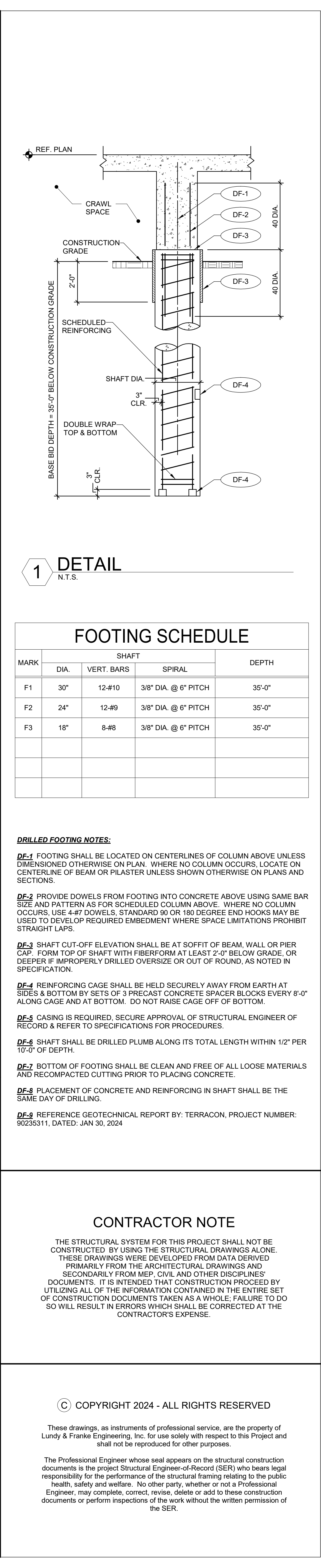
DETAILS
C1202



STEEL FRAMING NOTES:
SE-1 WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992...
SE-2 STEEL JOISTS AND BRIDGING SHALL CONFORM TO STEEL JOIST INSTITUTE SPECIFICATIONS...
SE-3 JOIST ERECTION PRECAUTION (OSHA REQUIREMENT) AT ALL COLUMNS NOT FRAMED BY BEAMS...
SE-4 ROOF DECK IS 1-1/2" GAGE TYPE B RIB DECK...
SE-5 FLOOR SLAB ON STEEL JOISTS SHALL BE 3" REGULAR WEIGHT CONCRETE...
SE-6 WHERE METAL DECK IS SUPPORTED CONTINUOUSLY WELD DECK TO STEEL SUPPORT AT 12" o.c.
SE-7 WHERE FLOOR DECK CHANGES DIRECTIONS...
SE-8 TYPICAL STEEL JOIST SEAT ANCHORAGE...
SE-9 STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS...
SE-10 DECK STOP ANGLES, FASCIA ANGLES, HANGERS, CLIPS AND OTHER STRUCTURAL AND MISCELLANEOUS MEMBERS SHALL BE CONNECTED OR JOINED USING 3/16" OR LARGER FILLET OR GROOVE WELDS...
SE-11 WHERE OPENINGS THROUGH ROOF ARE REQUIRED...
SE-12 WHERE BRACING ANGLES ARE SHOWN BETWEEN END OF JOIST BOTTOM CHORD AND SUPPORTING BEAM OR GIRDER...
SE-13 JOIST BRACES (AT EACH COLUMN) OCCUR AT OR NEAR EVERY INTERIOR COLUMN AT THREE JOISTS THAT ARE CLOSEST TO THE COLUMN CENTERLINE...
SE-14 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING PROVIDED OR FROM THE APPLICABLE WELDING CODE...
SE-15 UTILITIES SHALL BE DESIGNED AND DETAILED FOR LL=100 PSF BY STEEL FABRICATOR UNDER DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER...

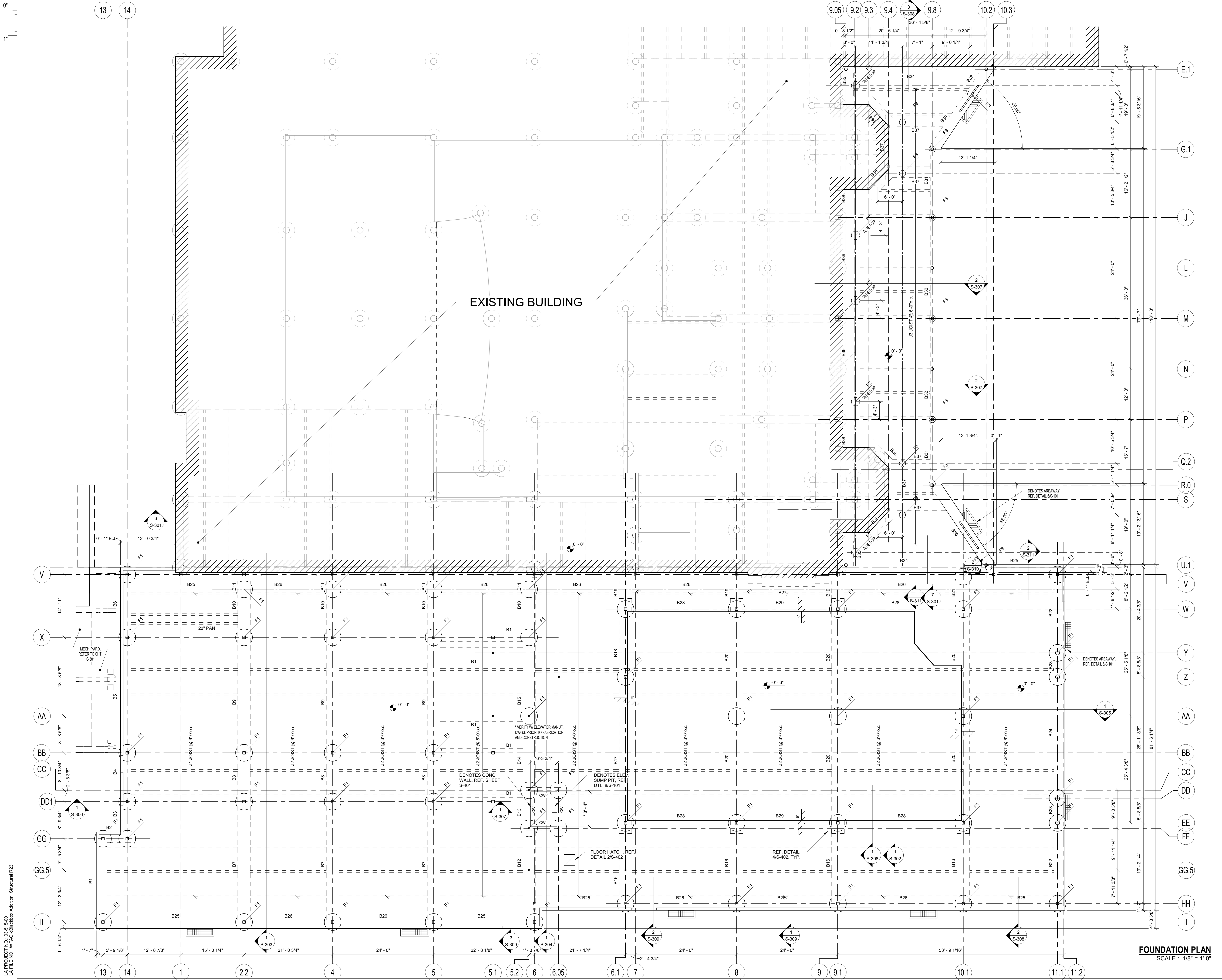
CONCRETE NOTES:
CN-1 CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW...
CN-2 REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
A615-GR 60... FOOTING SPIRALS
A185... WELDED WIRE FABRIC
A615-GR 60... BEAM STIRRUPS, COLUMN TIES
A615-GR 60... ALL OTHER REINFORCING
ASTM A496... DEFORMED BAR ANCHORS
CN-3 DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). BAR SUPPORTS SHALL HAVE PLASTIC COATED LEGS OR BE HOT DIP GALVANIZED AFTER FABRICATION.
CN-4 PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. SEE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED AT MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.
CN-5 CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY...
CN-6 MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC...
CN-7 REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.
CN-8 "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS...
MECHANICAL TESTING OF HCA IN SHOP
MECHANICAL TESTS SHALL BE MADE BEFORE INITIATION OF PRODUCTION WELDING AND AFTER ANY EQUIPMENT MAINTENANCE TO ENSURE THAT THE WELDING SCHEDULE IS SATISFACTORY...
CN-9 REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE...
REINFORCING BAR LAP SPLICE TABLE (MASONRY), (BEAMS AND COLUMNS), (SLABS AND WALLS)

GENERAL NOTES:
GN-1 THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY...
GN-2 THE DESIGN LOADS ARE:
SUPERIMPOSED DEAD LOADS
MECHANICAL DUCTS/CONDUITS, CEILING, ETC. 5 PSF
MECHANICAL EQUIPMENT 150 PSF (NON REDUCIBLE)
FLOOR LIVE LOAD 100 PSF
OFFICES 50 PSF
MOVABLE PARTITIONS 100 PSF
MECHANICAL ROOMS 150 PSF (NON REDUCIBLE)
ASSEMBLY AREAS:
FIXED SEATS 60 PSF
LOBBIES 100 PSF
MOVABLE SEATS 100 PSF
STAGES & PLATFORMS 125 PSF
CATAWKS 40 PSF
ROOF LIVE LOAD
FLAT ROOF 20 PSF
PITCHED ROOF 20 PSF
ROOF SNOW LOAD
GROUND SNOW Pn 5 PSF
SNOW EXPOSURE FACTOR Ce 1.0
SNOW LOAD IMPORTANCE FACTOR Is 1.1
THERMAL FACTOR Ct 1.0
WIND LOAD
BASIC WIND SPEED (ULTIMATE DESIGN) 120
BUILDING CATEGORY III
WIND EXPOSURE C
EARTHQUAKE LOADS
SITE CLASS D
LOCAL RESPONSE ACCELERATION Ss 0.14%
GENERAL RESPONSE ACCELERATION Sa 0.3%
SPECTRAL RESPONSE COEF. SDS 14%
SPECTRAL RESPONSE COEF. SD 5%
SEISMIC DESIGN CATEGORY A
RETAINING WALLS
GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY 1.5
TYPE 2
EQUIVALENT FLUID PRESSURE 0.5 PCF
BACKFILL 200 PSF
FOOTING BEARING 1500 PSF SURCHARGE
GN-5 ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)
D
D+L
D+(Lr or S or R)
D+0.75L+0.75(Lr or S or R)
D+0.75L
D+0.75L+0.75(0.6W)+0.75(Lr or S or R)
0.6D+0.6W
D+0.7E
STRENGTH DESIGN LOAD COMBINATIONS (FOR CONCRETE DESIGN)
1.4D
1.2D+1.6L+0.5(Lr or S or R)
1.2D+1.6(Lr or S or R)+0.5W
1.2D+1.0W+1.0L+0.5(Lr or S or R)
0.9F+1.0W
1.2D+1.4L+0.2S
GN-6 PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
GN-7 PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL SUPERSTRUCTURE.
GN-8 THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION DRAWINGS...
GN-9 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE...
GN-10 PROVIDE 1.0 TONS OF EXTRA REINFORCING STEEL...
COLUMN SCHEDULE:
MARK, SECT., TOP CONN., BASE PLATE (W x D x t), ANCHORS, SECT., REMARKS
C1, C2, C3, C4, C5, C6



PRK ARCHITECTS logo and contact information.
ARCHITECT SAN ANTONIO PRK Architects, Inc.
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 P
210-829-9578 F
TX Firm BR 1808
LUNDY & FRANKE ENGINEERING logo and contact information.
568 HEINER ROAD
SAN ANTONIO, TEXAS 78232
PH 210-879-7900
TX FIRM REG. #3388
ALAMO COLLEGES logo and contact information.
ST. PHILIP'S COLLEGE
KEY PLAN with NORTH, PLAN, TRUE orientation.
CONTRACTOR NOTE:
THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE...
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB
NOTES, SECTIONS & DETAILS
S-101

ISSUE FOR CONSTRUCTION



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

LA PROJECT NO. 032515-00
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
210-820-0123 P
210-823-5578 F
TX Firm BR 1606

ASSOCIATE ARCHITECT
MAX ARCHITECTS
1111 BARR
SAN ANTONIO, TX 78204
DESIGNER
TERRY GRIFFIN
LANDSCAPE
ROSE AND DESIGN
1711 W. LOOP
SAN ANTONIO, TX 78204
STRUCTURAL
LUNDY & FRANKE ENGINEERING
1111 BARR
SAN ANTONIO, TX 78204
MECHANICAL
TERRY GRIFFIN
ELECTRICAL
MEYER PROFESSIONALS
1111 BARR
SAN ANTONIO, TX 78204
GENERAL CONTRACTOR
TERRY GRIFFIN

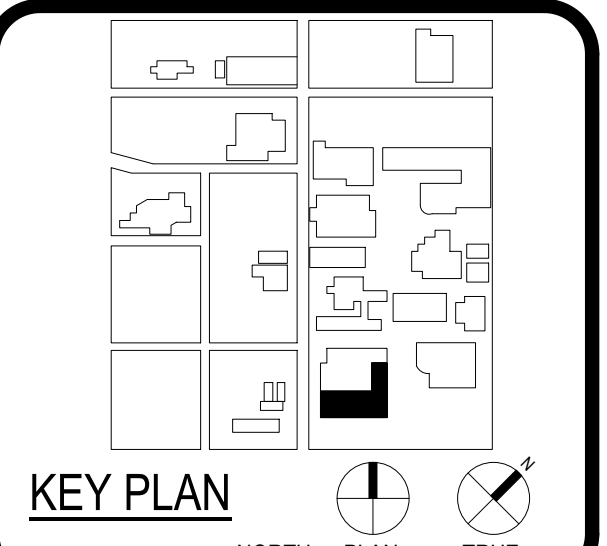
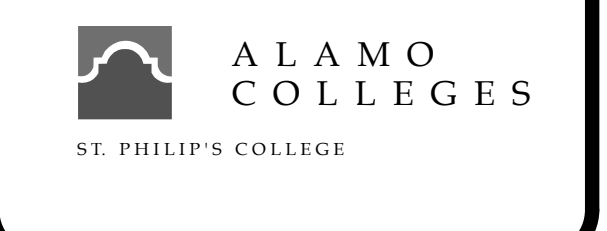


548 HEIMER ROAD
SAN ANTONIO, TEXAS 78232
PH 210-879-7800
FX 210-979-7800
TX FIRM REG. #3888

WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



CLIENT: Alamo Colleges

DATE: 2024/05/23 PROJECT NUMBER: 230462

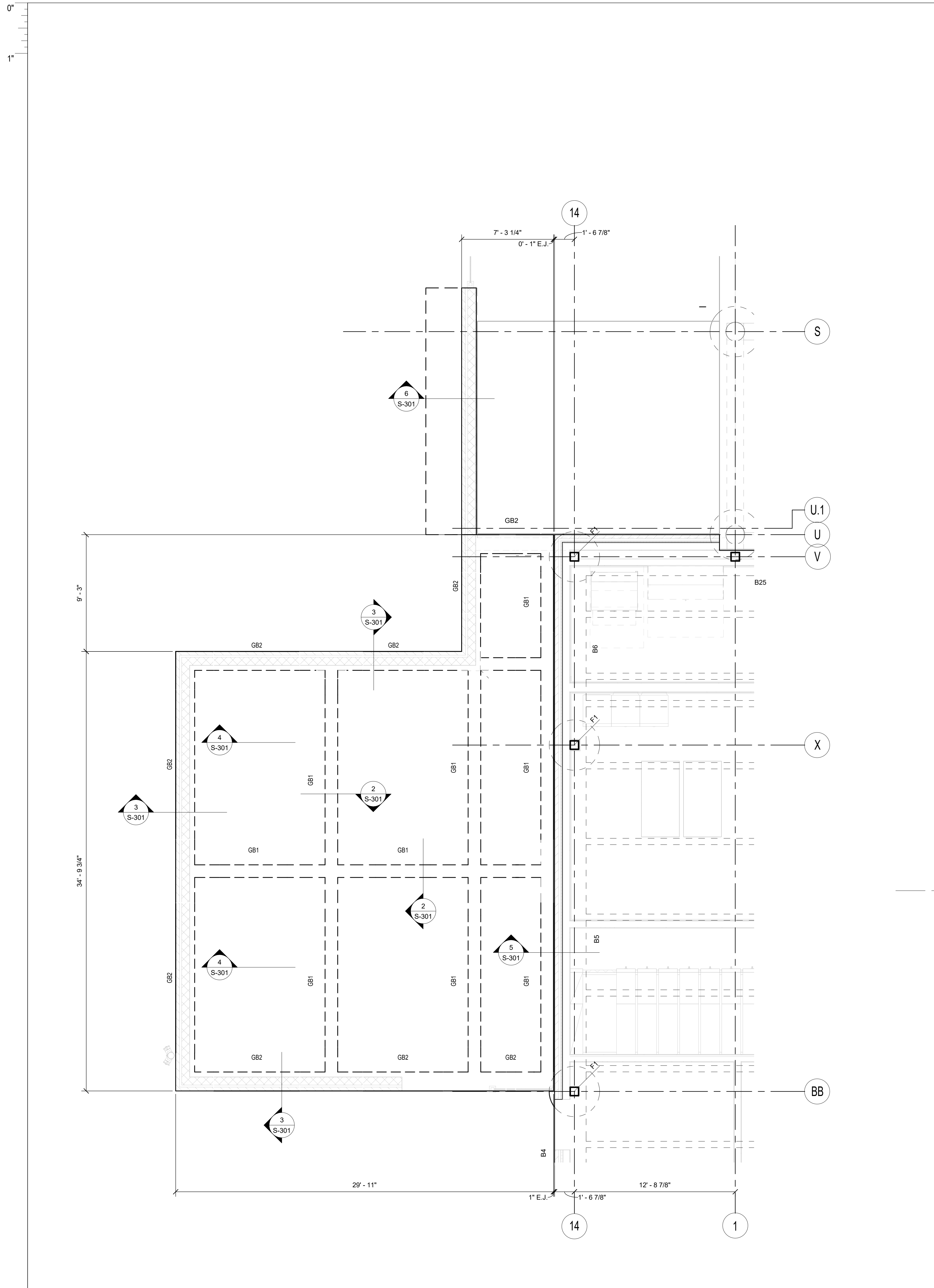
No.	Description	Date
2	City Comments	06/12/24

ISSUE FOR CONSTRUCTION

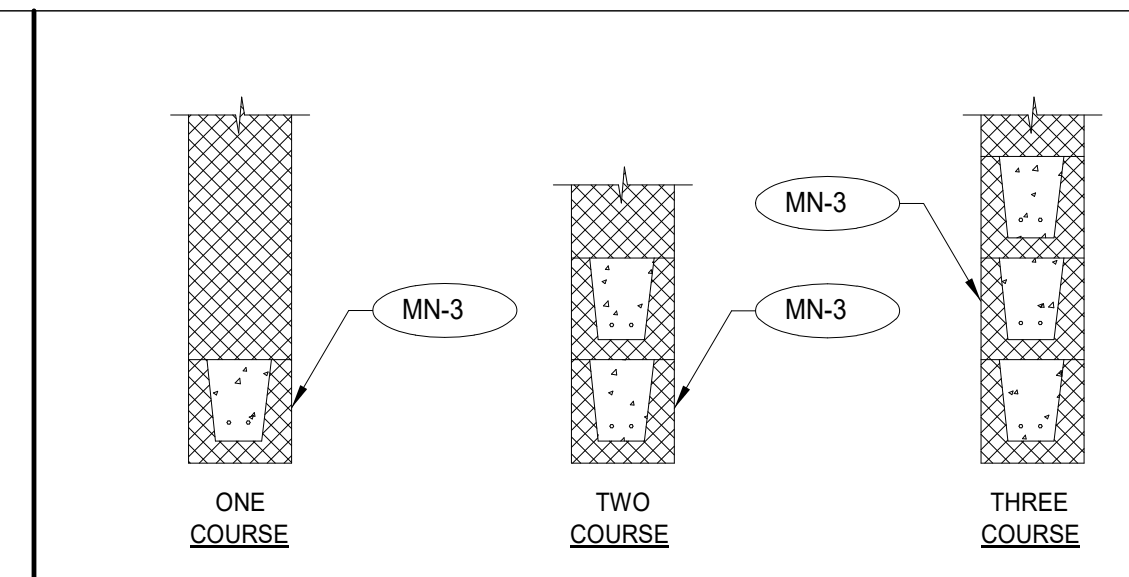
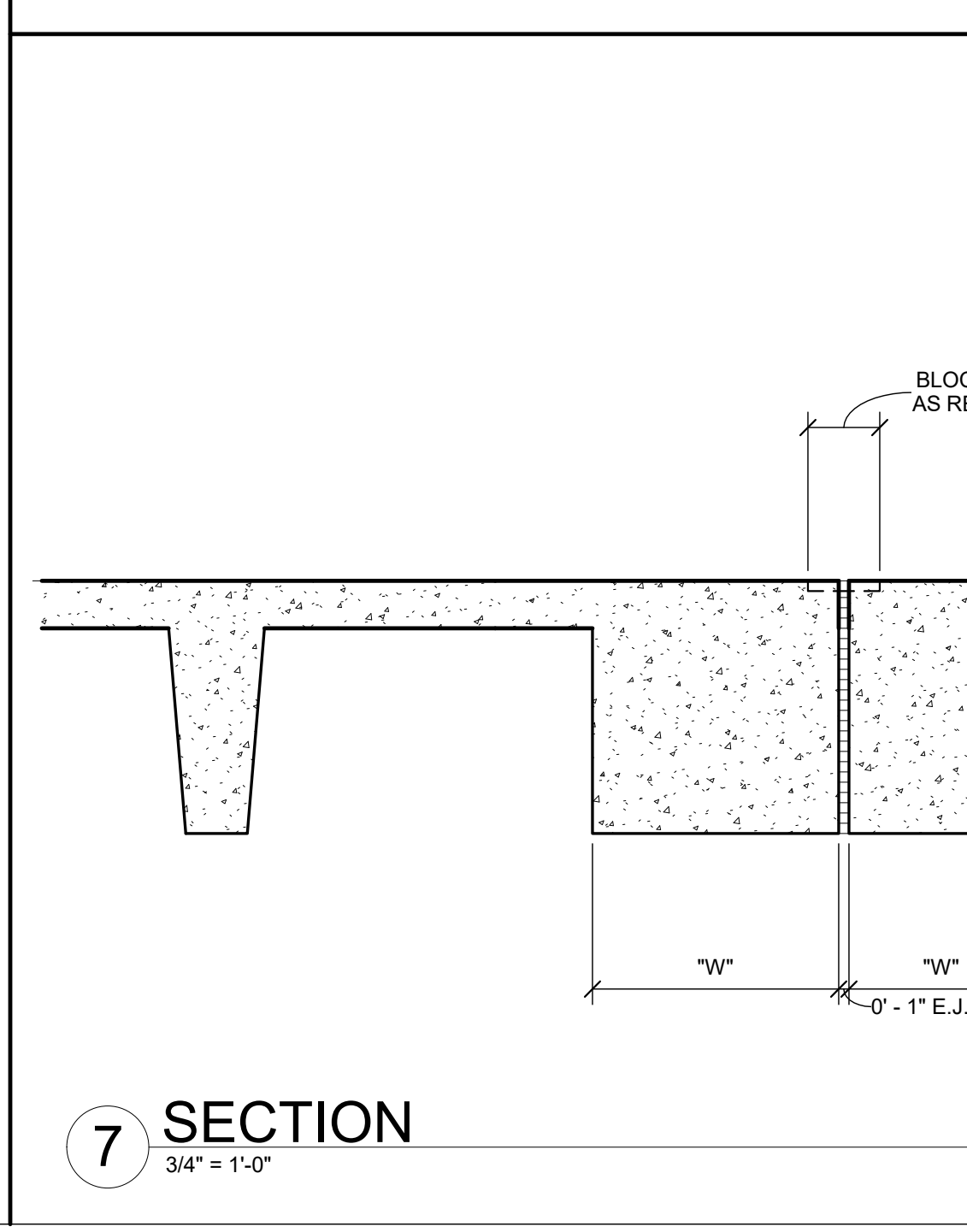
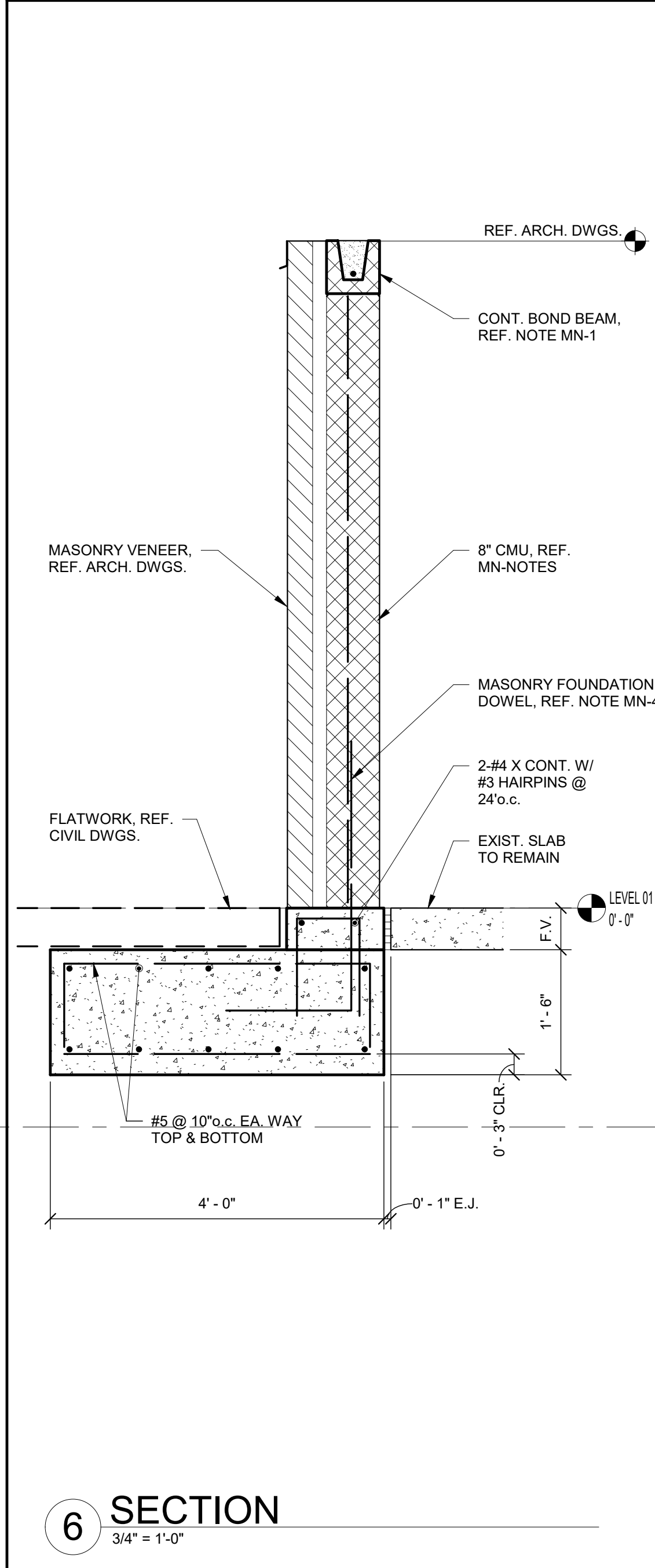
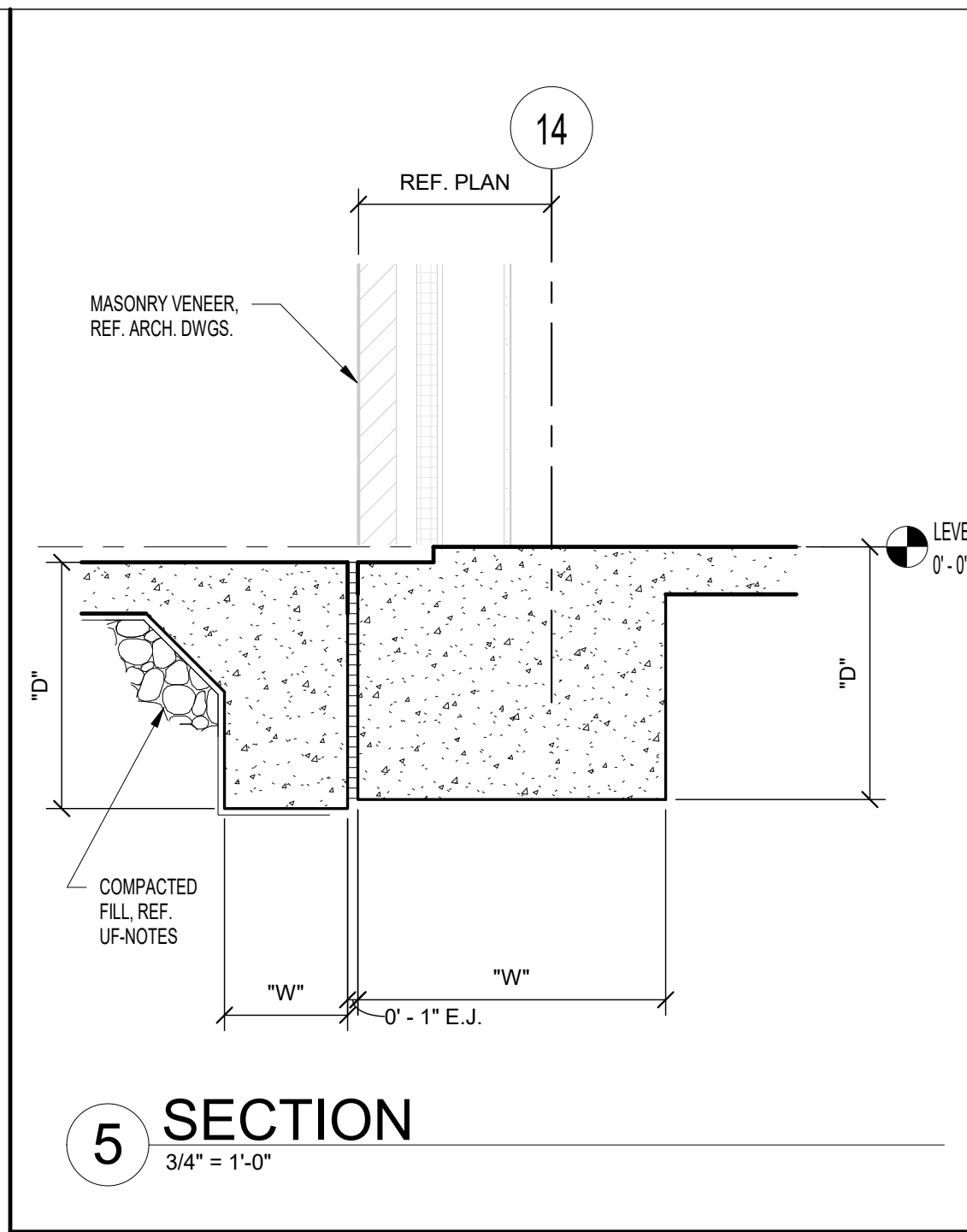
BUILDING NUMBER: AB

FOUNDATION FRAMING PLAN

S-201



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"	6'-6"	8" BEARING @ EA. END
THREE COURSE	6'-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).

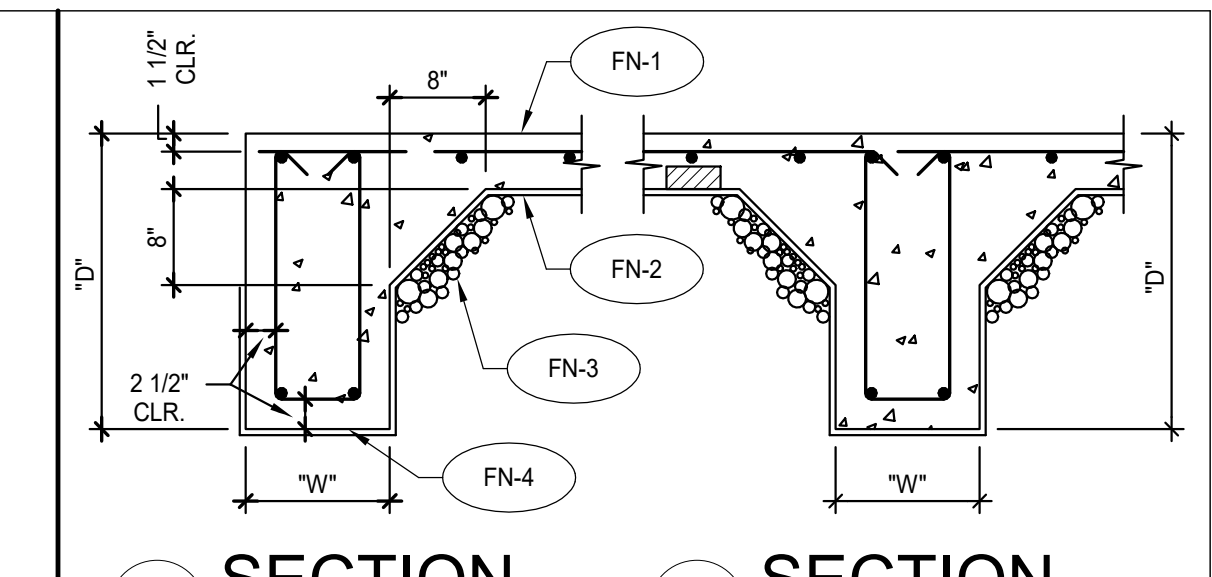
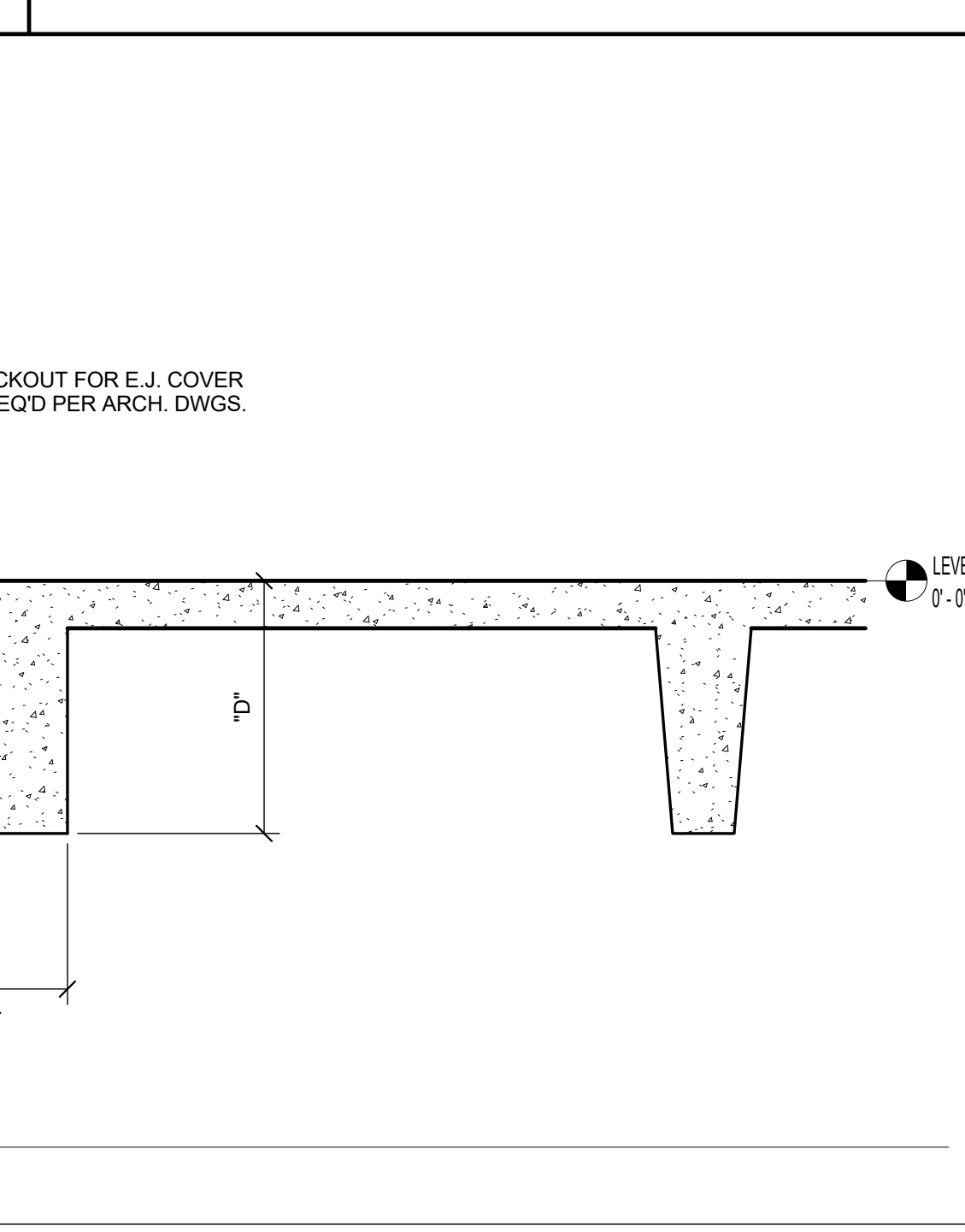
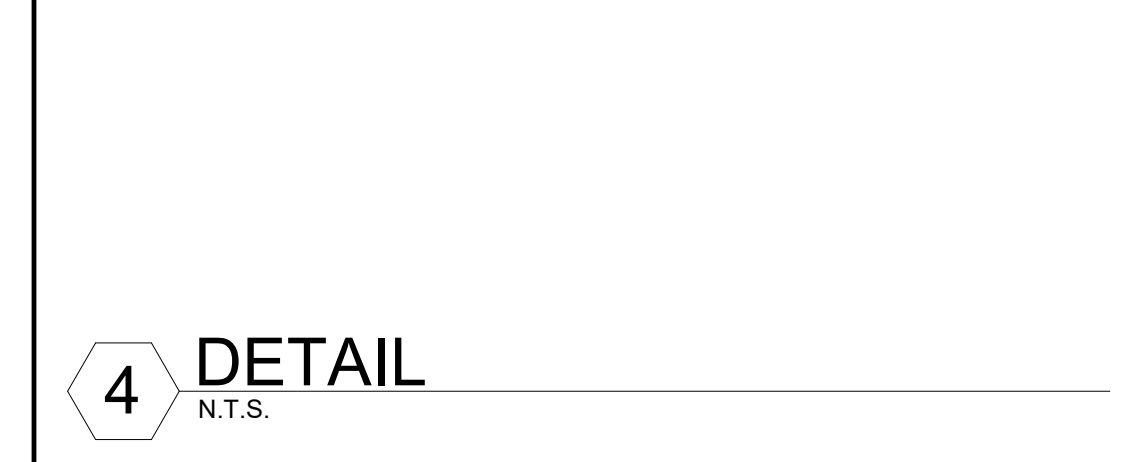
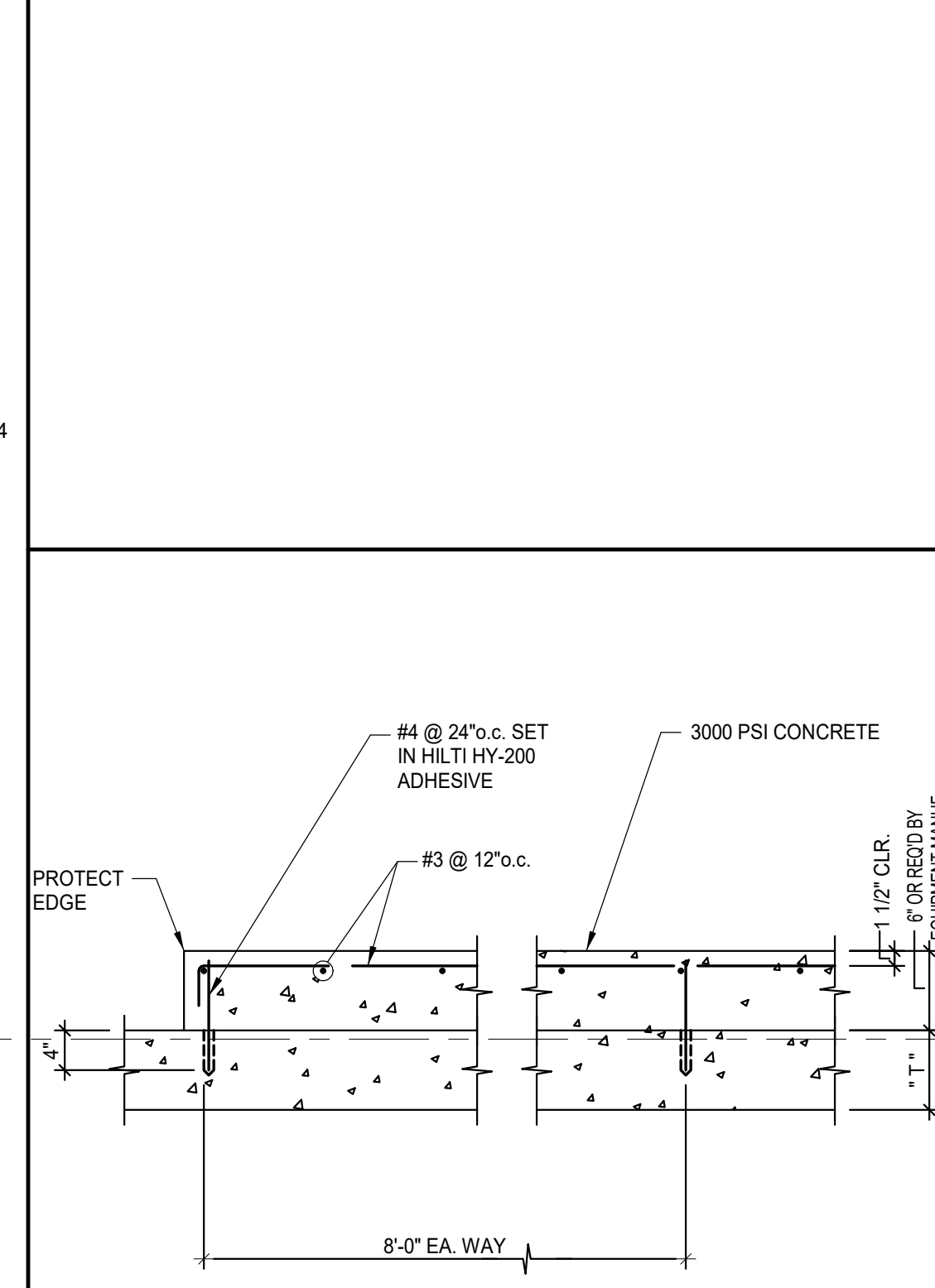
MN-3 PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 6'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

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.



GRADE BEAM SCHEDULE

MARK	W x D"	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 ?.



ARCHITECT PBK Architects, Inc.
SAN ANTONIO
601 N.W. Loop 410, Suite 400
San Antonio, TX 78216
210-820-0123 P
210-823-5578 F
TX Firm BR 1608

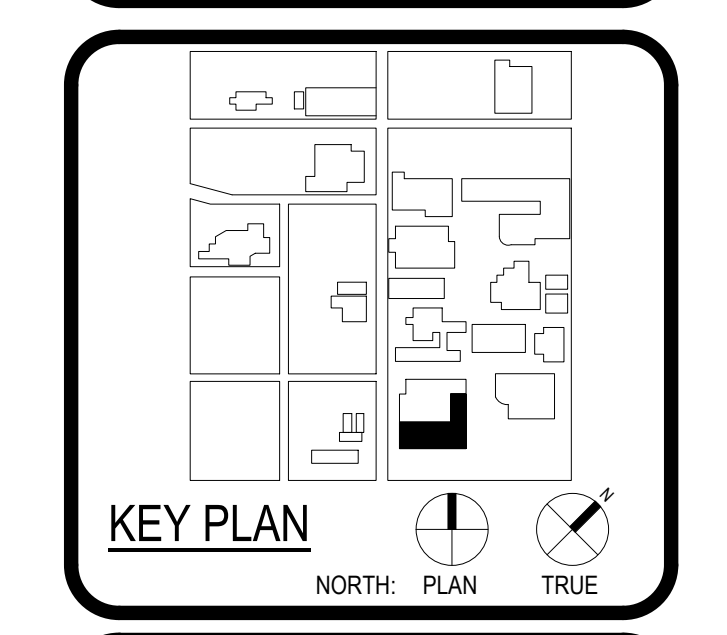
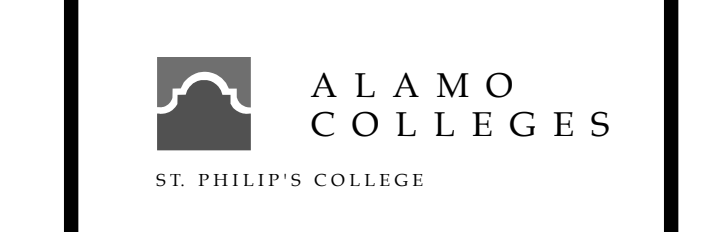


568 HEIMER ROAD PH 018 979-7900
SAN ANTONIO, TEXAS 78232 FX 010 979-7800
TX FIRM REG. #388

WFAC 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

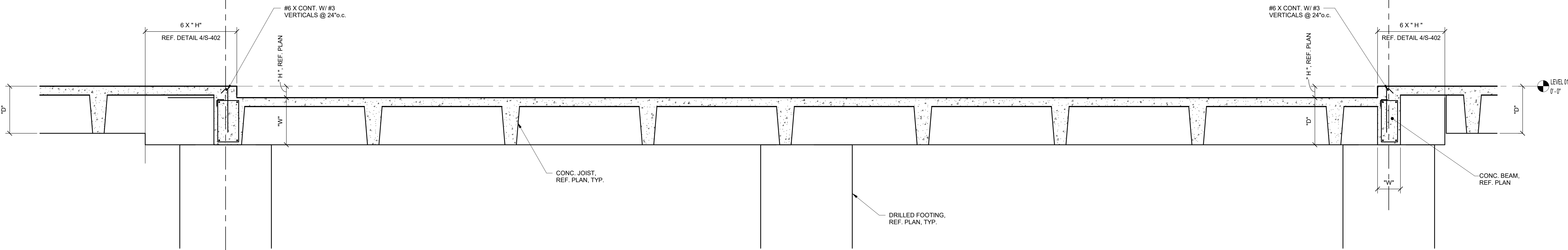
ISSUE FOR CONSTRUCTION

BUILDING NUMBER AB

SECTIONS, DETAILS & MECH. YARD FOUNDATION

ISSUE FOR CONSTRUCTION

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



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

EE

W

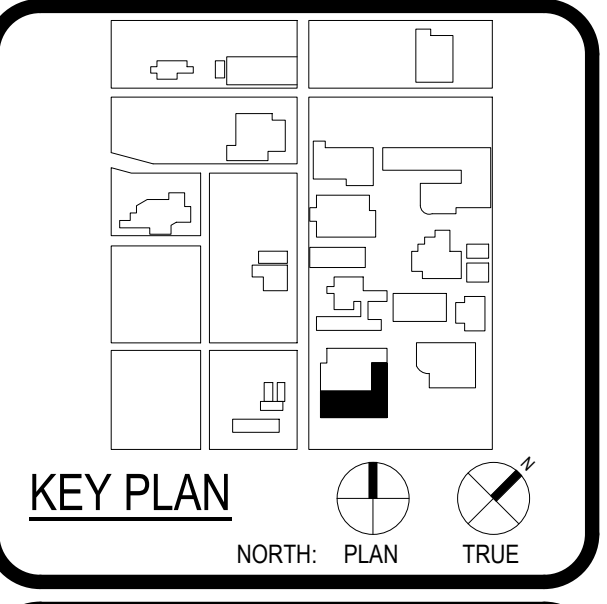


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	BA ARCHITECTS 1111 N. Loop West San Antonio, TX 78205
CONSULTANT	LANDSCAPE LUNDEY & FRANK ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 TX FIRM REG. #3388

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



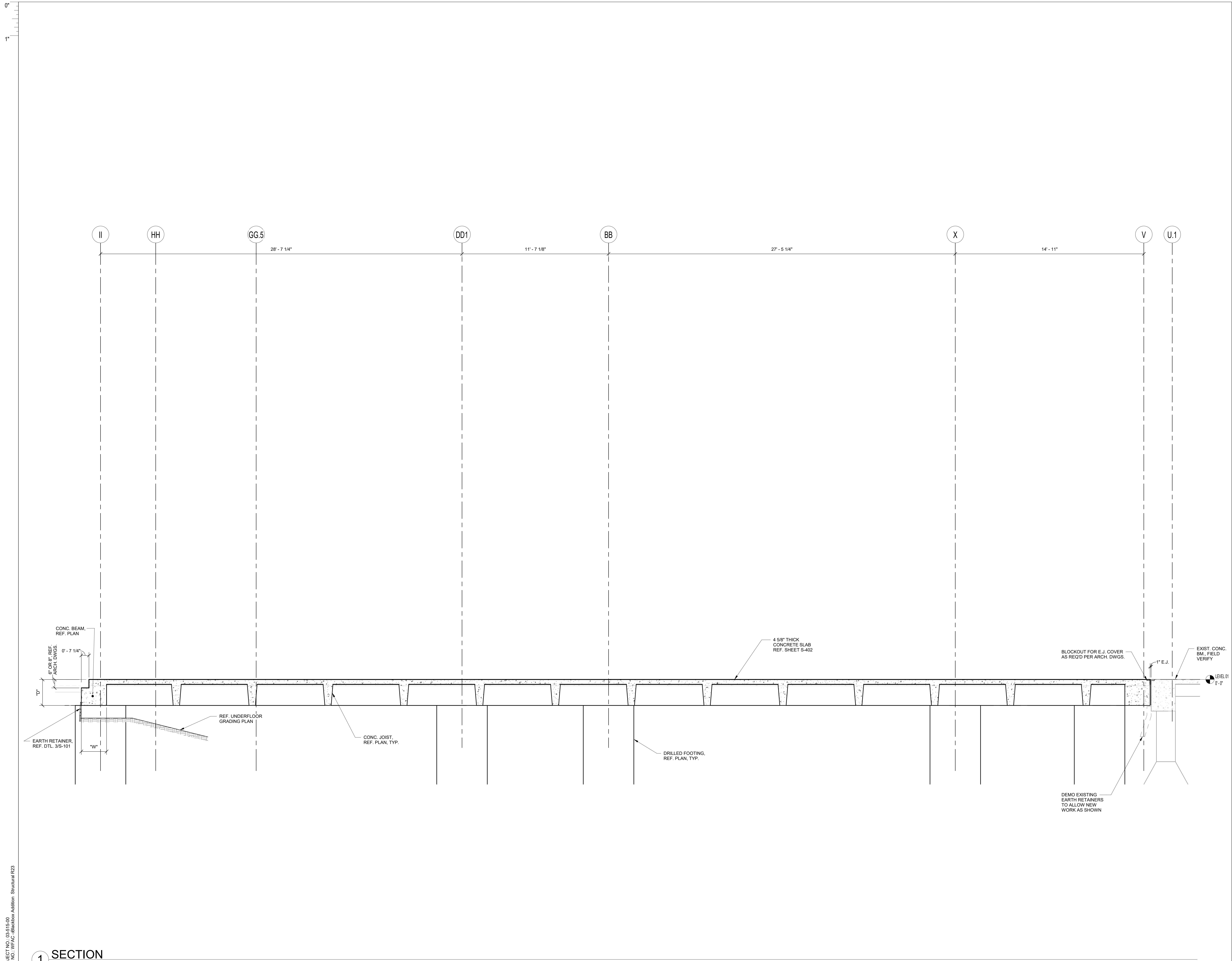
DATE: 06/12/2024
 SHAWN J. FRANKE
 62639
 LICENSED PROFESSIONAL ENGINEER
 (Signature)

CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
2024/05/23		
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-Blackbox Addition - Structural R23

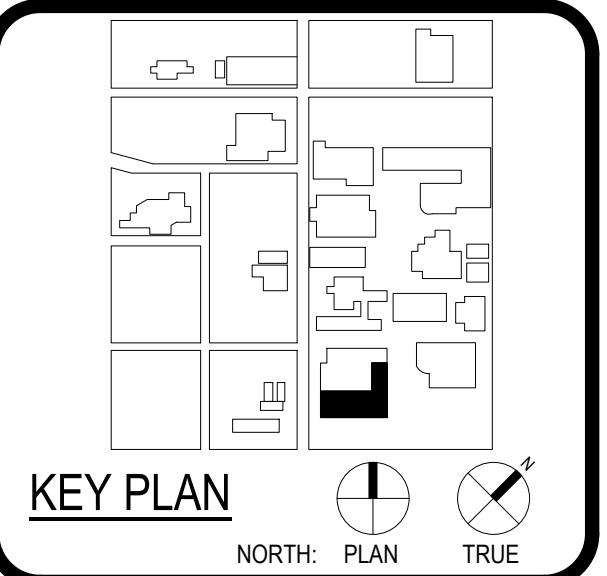


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DESIGNER	CONCRETE
LANDSCAPE	LANDSCAPE
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
STRUCTURAL	STRUCTURAL
TRUCKING	TRUCKING
INSULATION	INSULATION
PAINTING	PAINTING
CONCRETE	CONCRETE
STEEL	STEEL
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
TRUCKING	TRUCKING
INSULATION	INSULATION
PAINTING	PAINTING
CONCRETE	CONCRETE
STEEL	STEEL
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
TRUCKING	TRUCKING
INSULATION	INSULATION
PAINTING	PAINTING

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
Shawn Franke

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

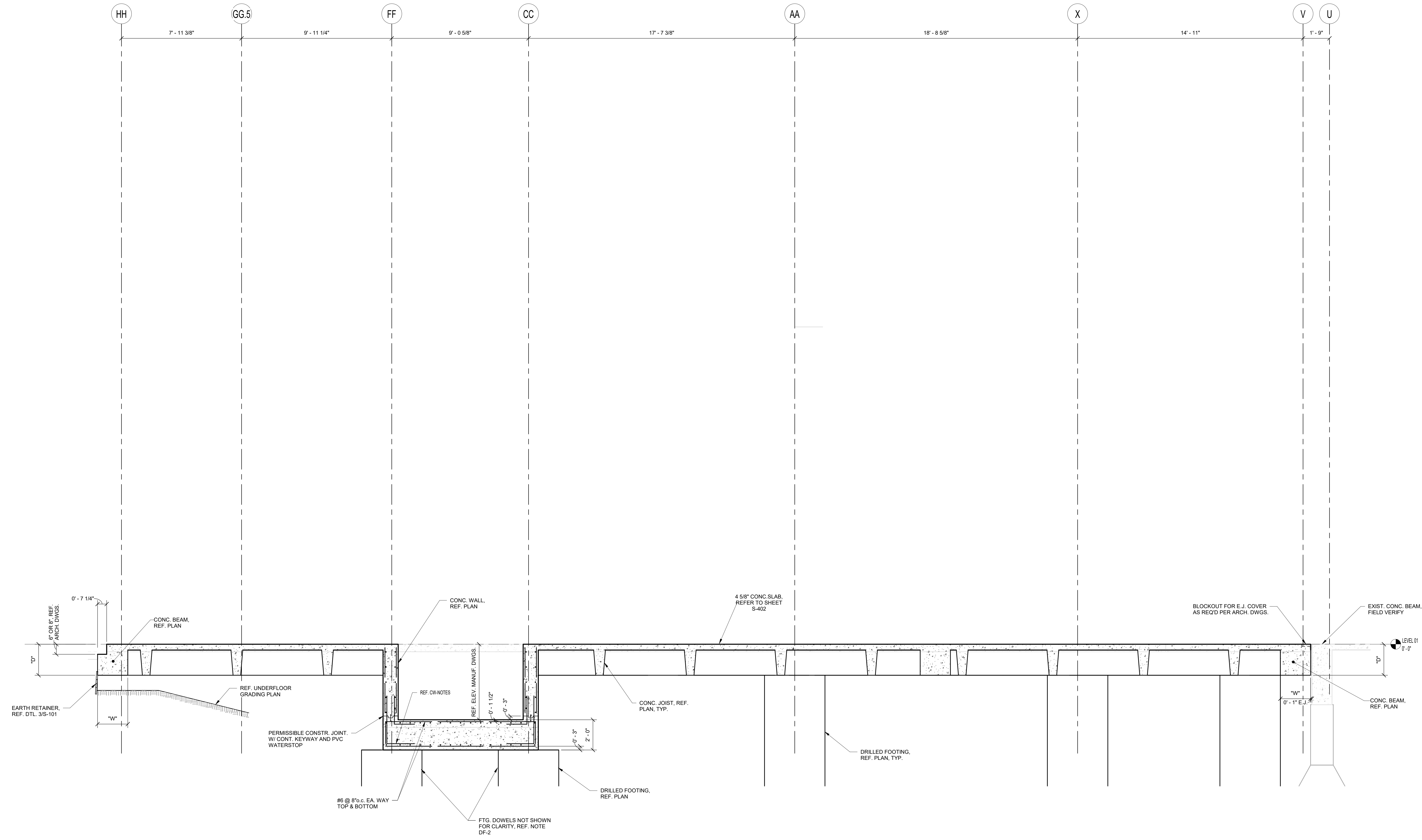
ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

SECTION

S-303

ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 09316-00
LA FILE NO.: WFAC-3blackbox Addition, Structural R23



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

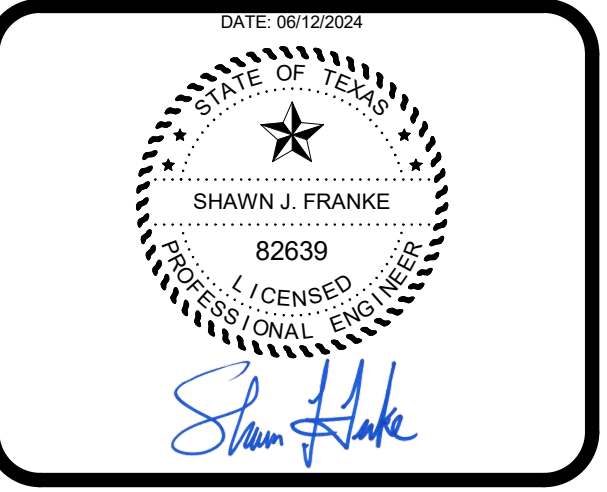
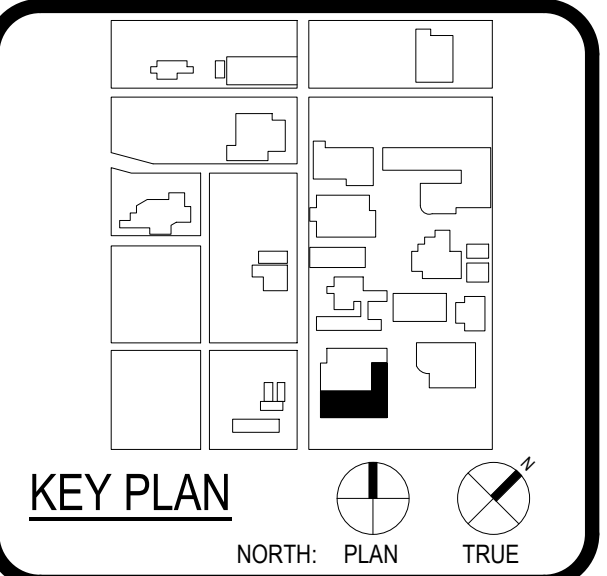


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
DATE	2/20/2024
DESIGNER	TRAVIS HALL
LANDSCAPE	TRAVIS HALL
ROOF AND DRIP	TRAVIS HALL
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	TRAVIS HALL
ELECTRICAL	TRAVIS HALL
PROVIDOR	BEAM PROFESSIONALS
MEASUR	TRAVIS HALL
SCALE	1/2" = 1'-0"



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

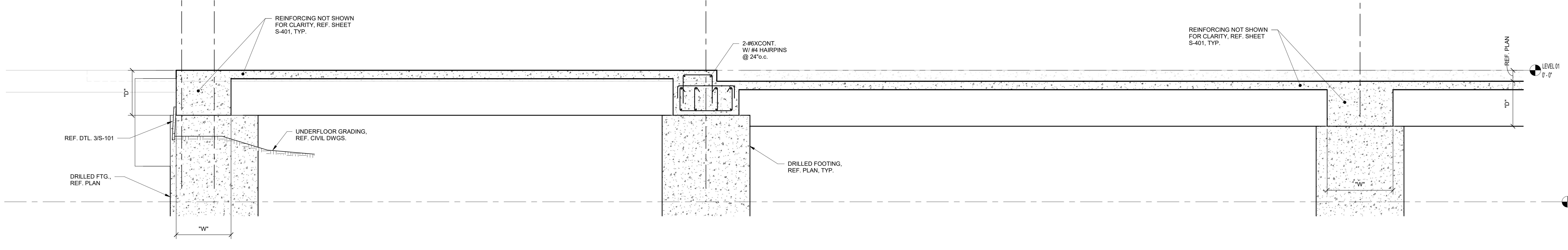
5' 1'

11.2 11.1

10.1

9.1

REF. PLAN



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
210-820-0123 P
210-829-5578 F
TX Firm BR 1608

ASSOCIATE ARCHITECT
BA ARCHITECTS
210-820-0123 P
210-829-5578 F
TX Firm BR 1608

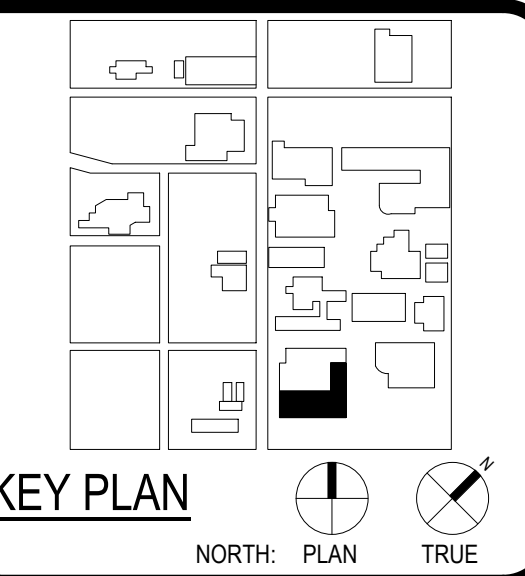
ARCHITECT
DESIGN
LANDSCAPE
SITES AND DESIGN
STRUCTURAL
LUNDY & FRANKE ENGINEERING
210-829-5578 P
210-829-5578 F
TX Firm BR 1608

PROFESSIONAL ENGINEER
LUNDY & FRANKE
210-829-5578 P
210-829-5578 F
TX Firm BR 1608



WFAC Black Box Addition PKG 1

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



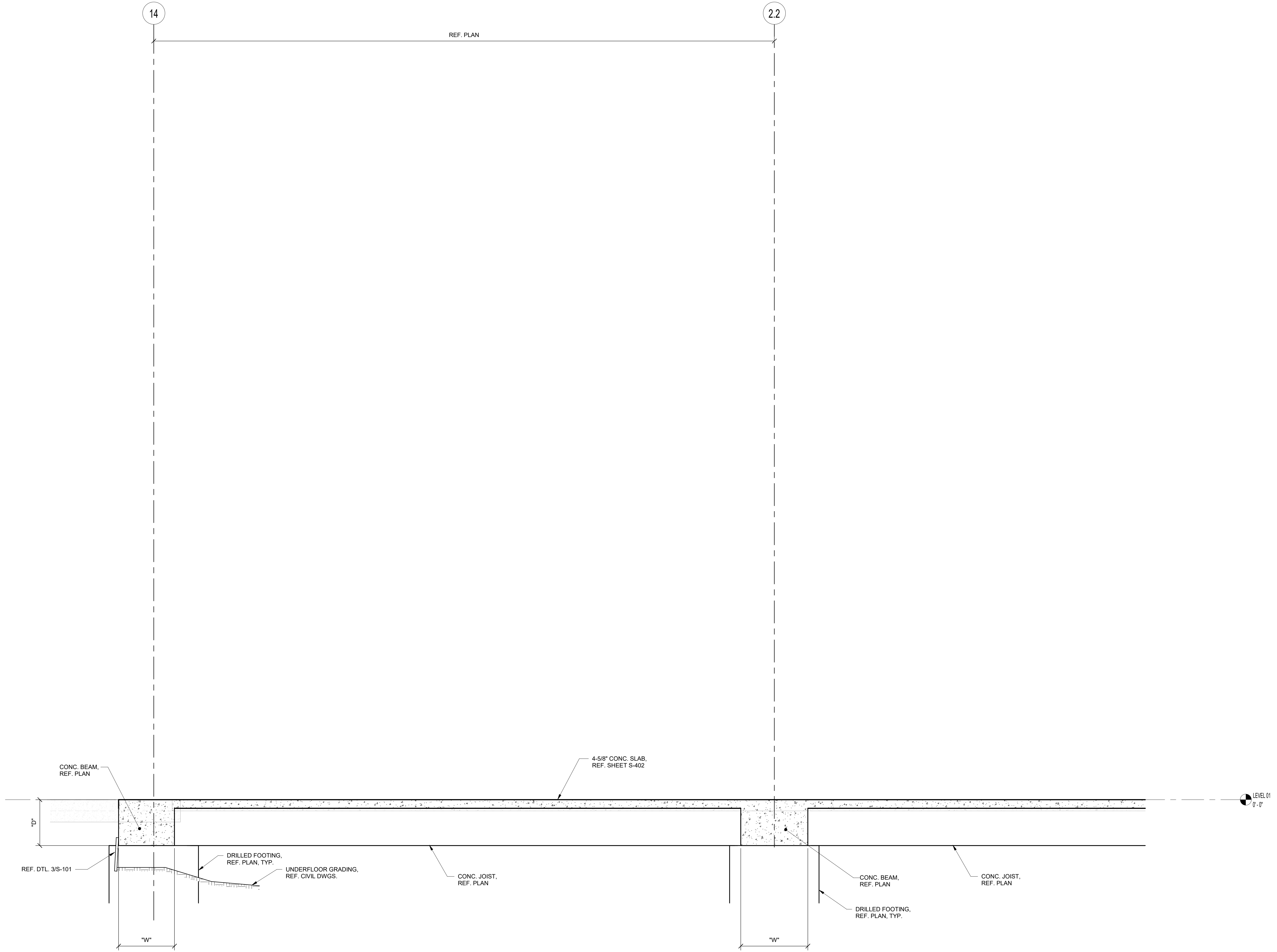
CLIENT		
Alamo Colleges		
DATE	PROJECT NUMBER	
2024/05/23	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER		AB

SECTION

S-305

ISSUE FOR CONSTRUCTION

0'
1'



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

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

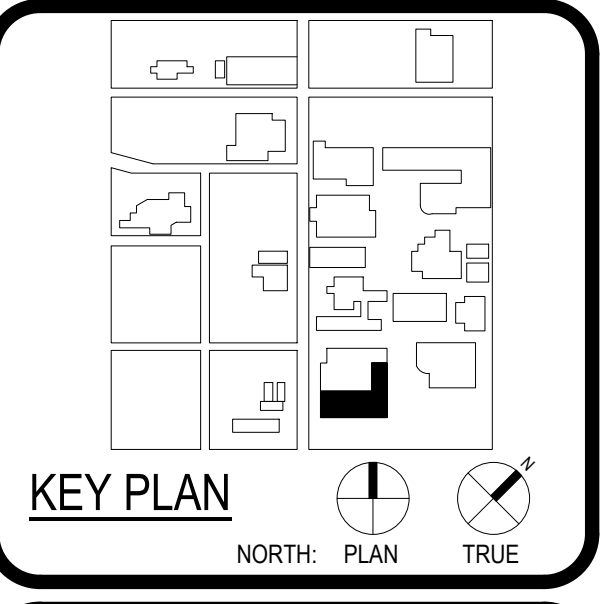


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-823-0123 P 210-823-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	ALAMO COLLEGES
ROSE AND DESIGN	ALAMO COLLEGES
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING



WFAC Black Box Addition PKG 1

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

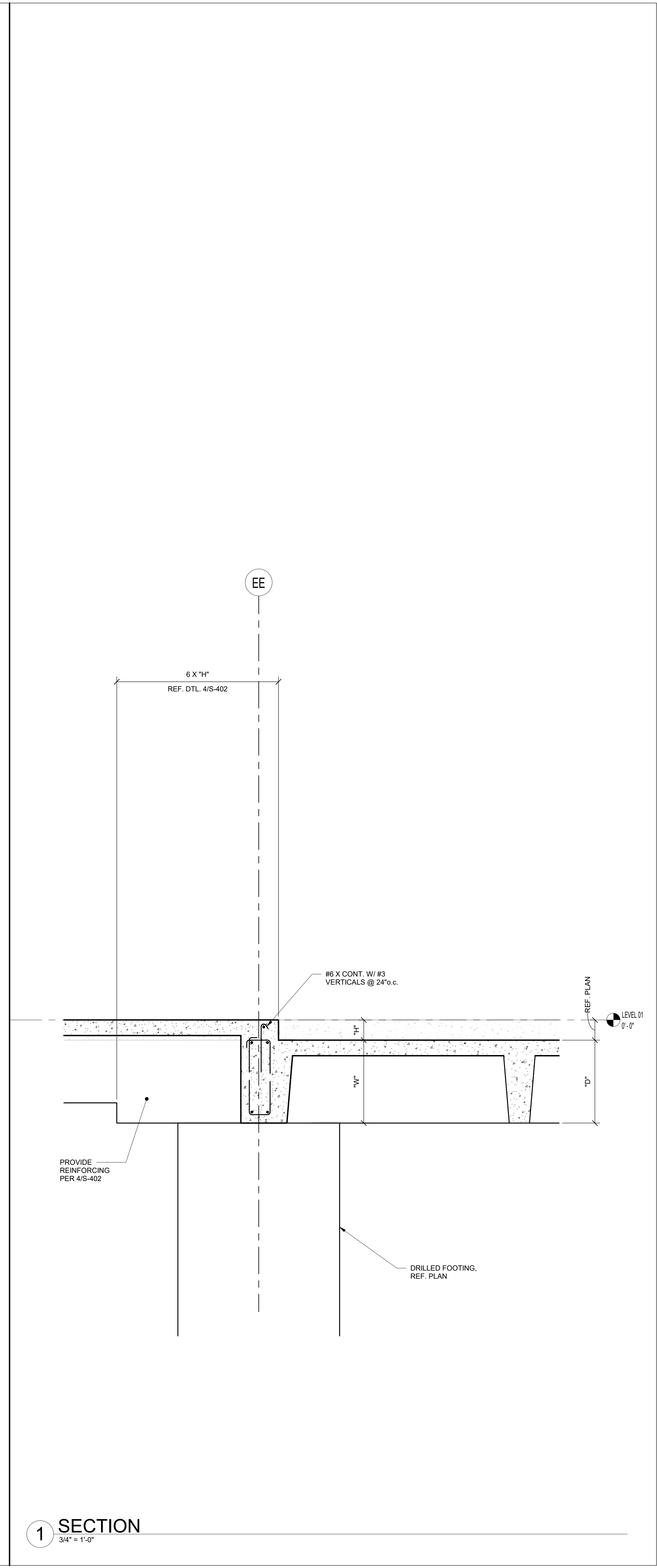
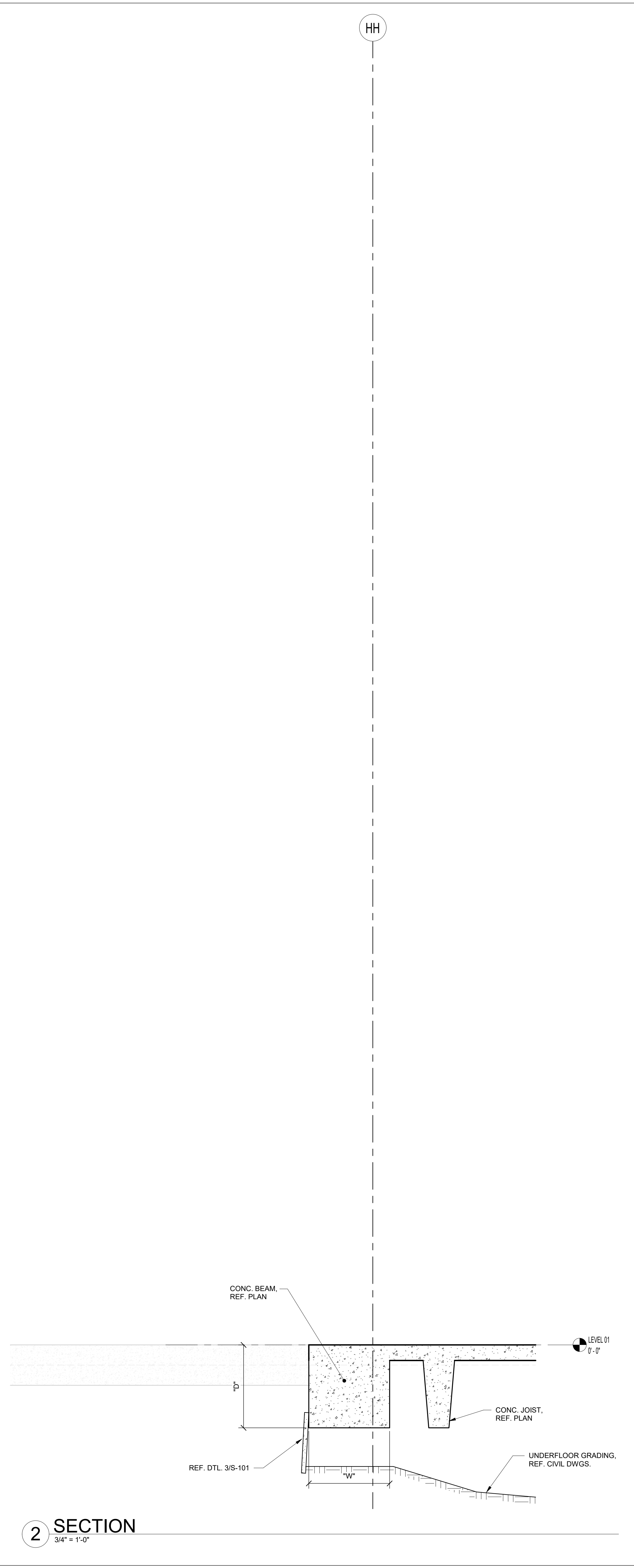
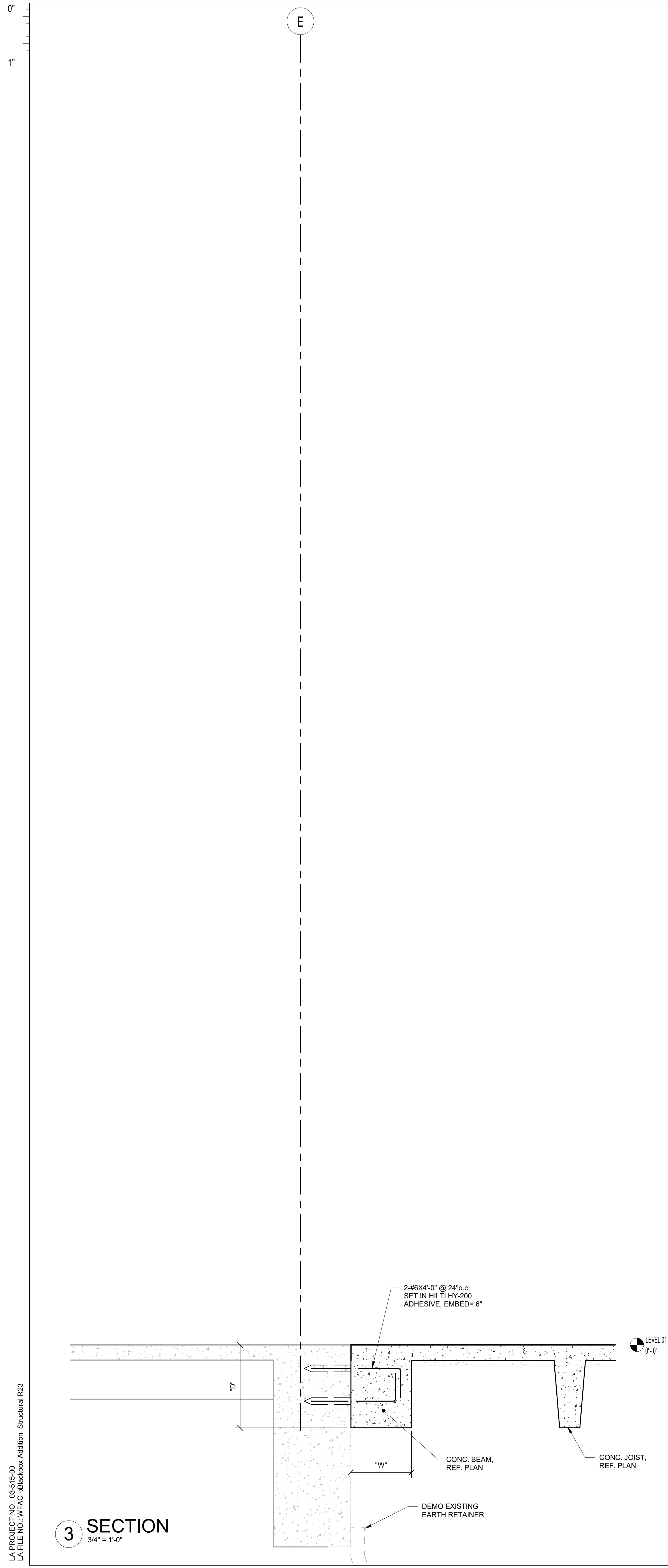


CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION
BUILDING NUMBER AB

SECTION
S-306

ISSUE FOR CONSTRUCTION



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

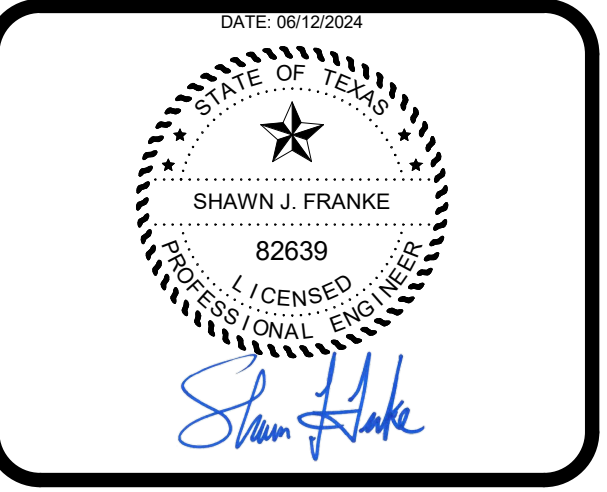
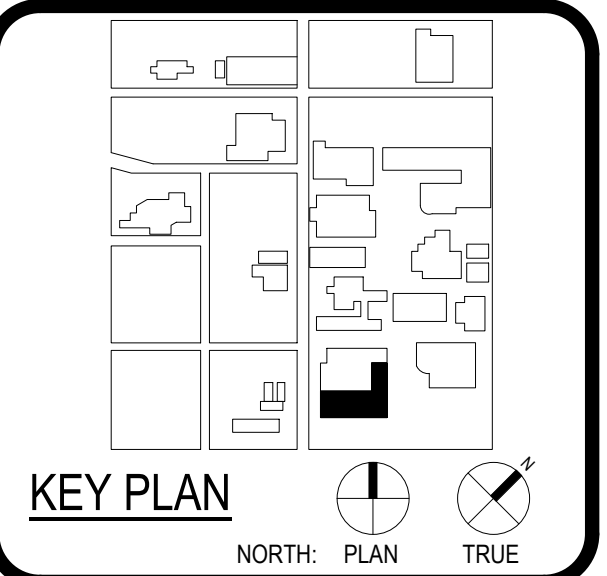


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
CONSULTANT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE	BA & ARCHITECTS
ROOF AND GROUND	BA & ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	LUNDY & FRANKE ENGINEERING
PROFESIONAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
PLUMBING	LUNDY & FRANKE ENGINEERING



WFAC Black Box Addition PKG 1

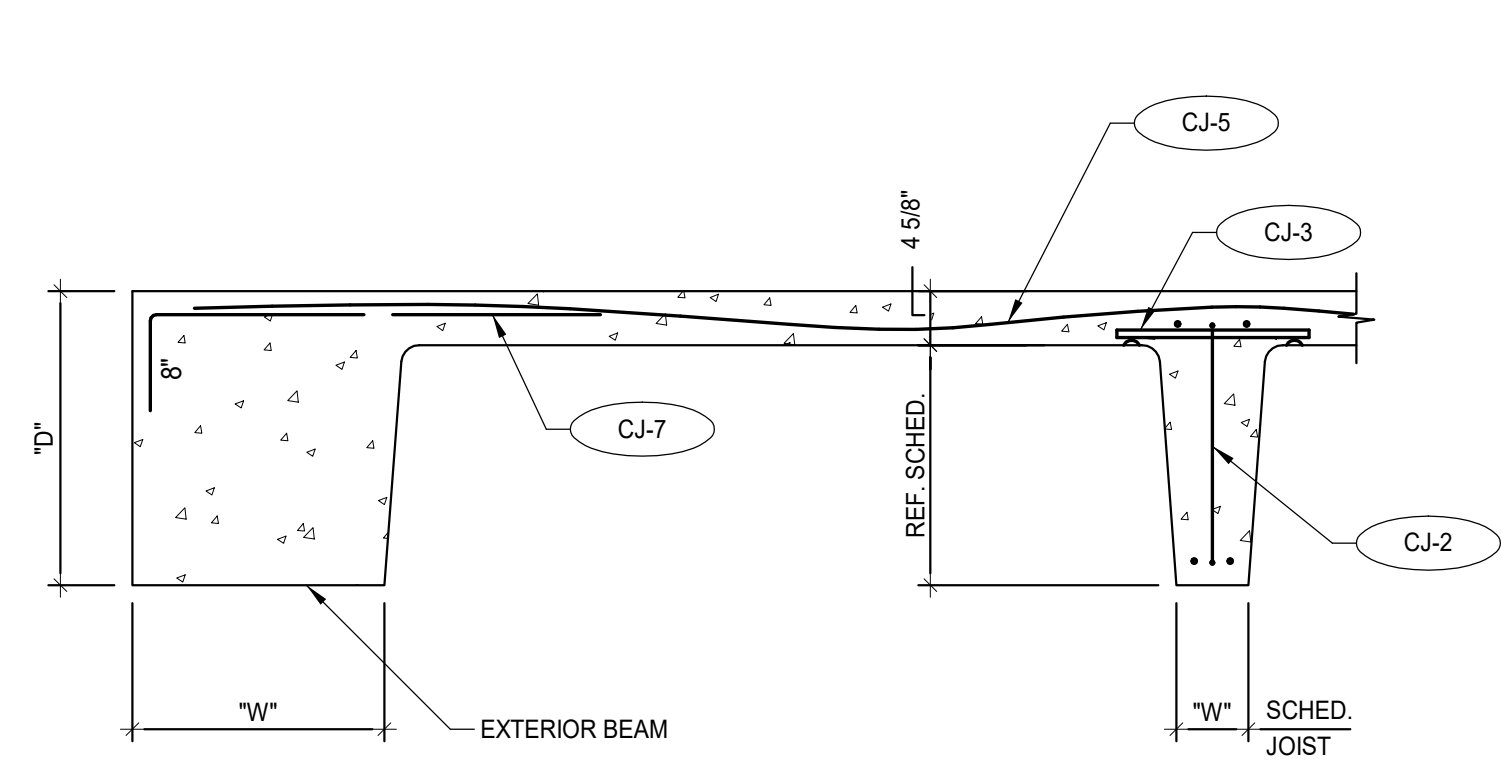
1801 Main, Luther King Dr.,
San Antonio, TX 78203
ISSUE FOR CONSTRUCTION



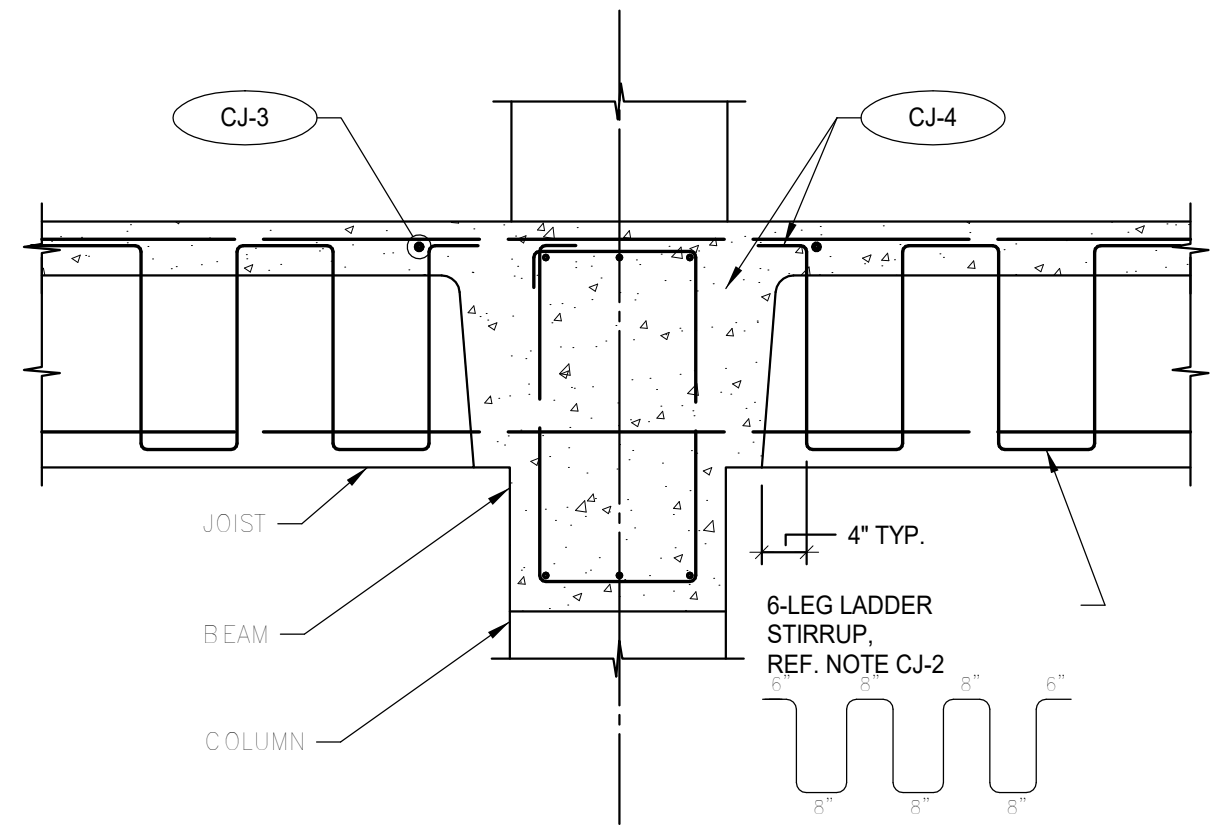
CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

SECTIONS
S-308

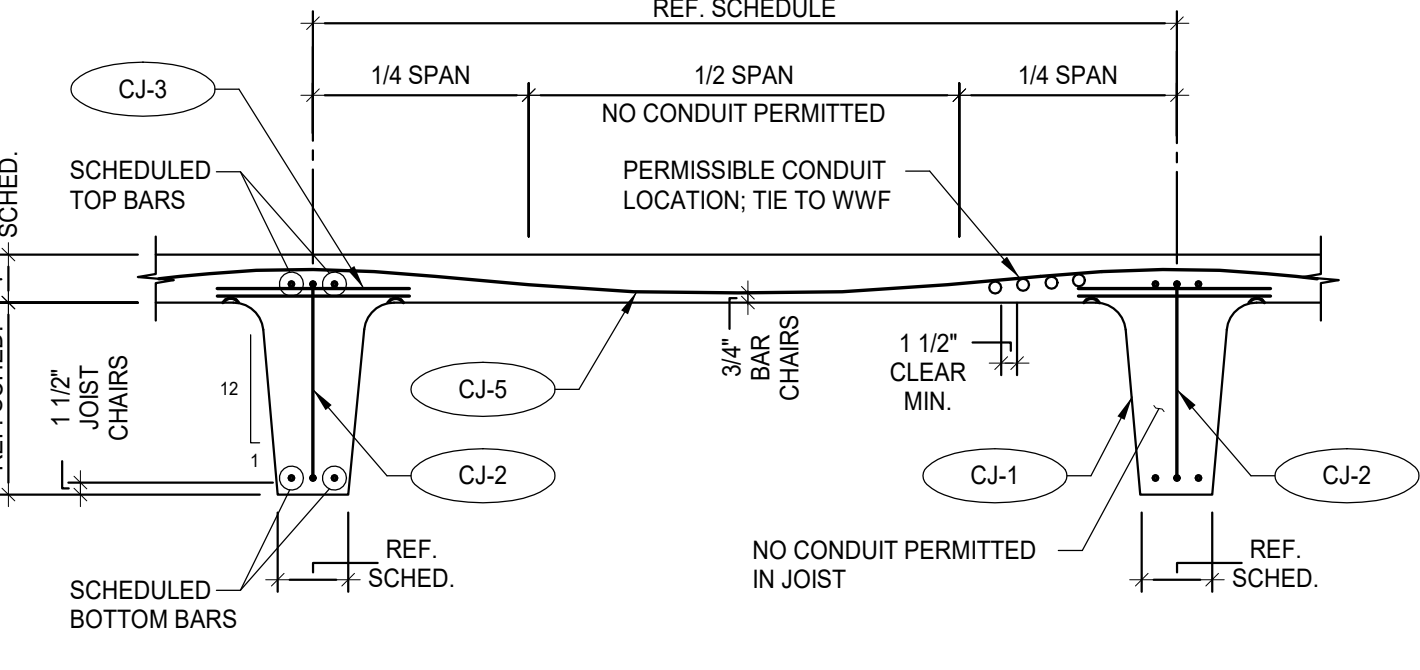
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



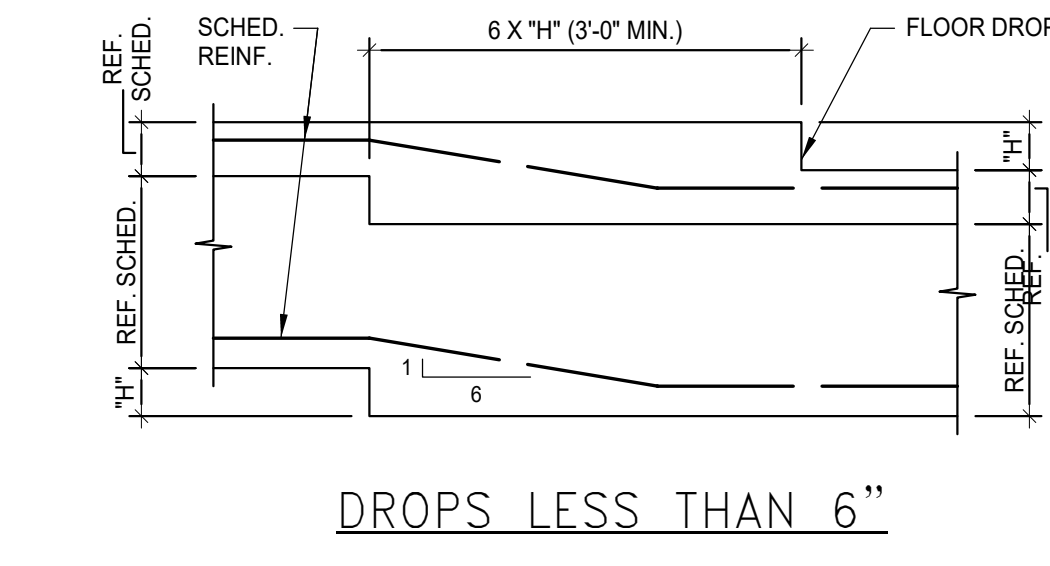
5 DETAIL TYP. SECT. @ REIN. BM. SCALE: 3/4" = 1'-0"



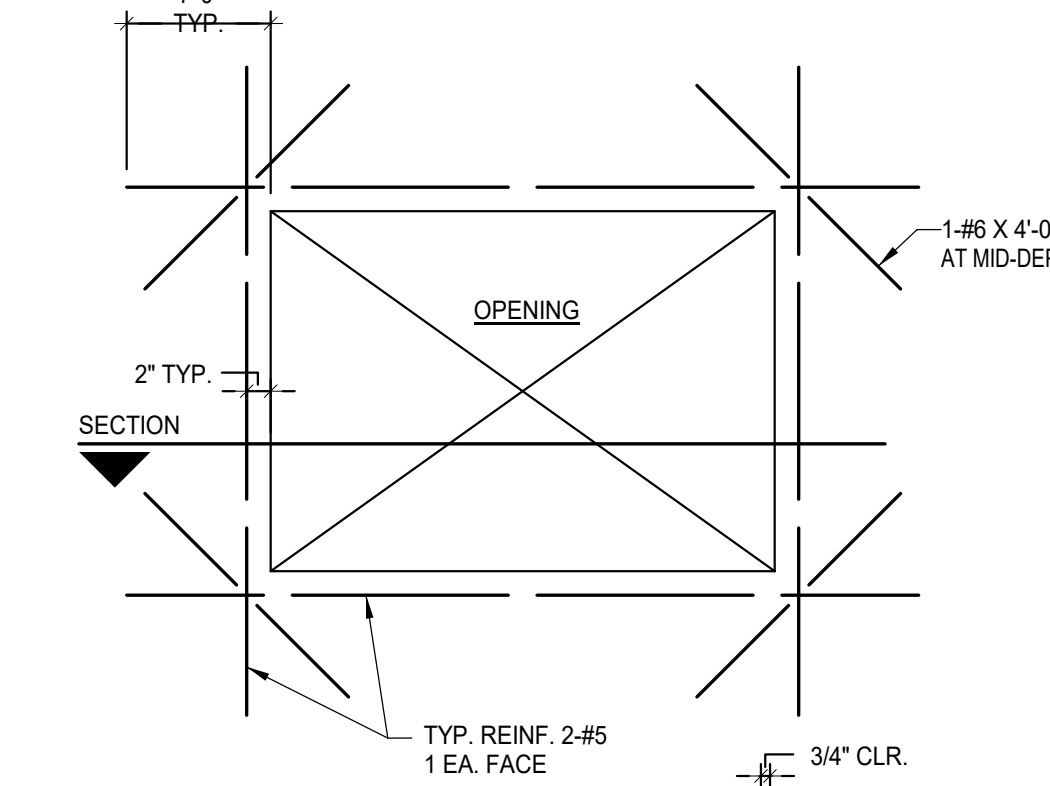
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



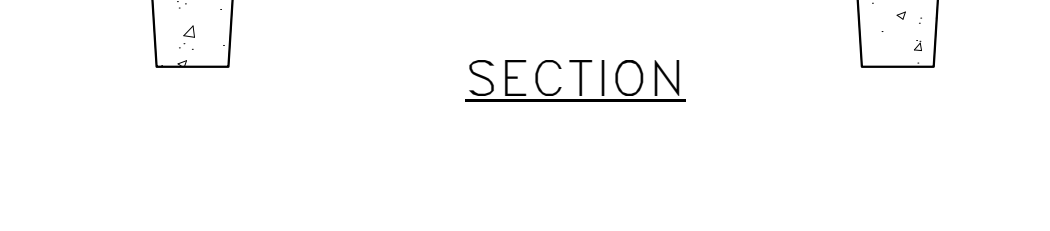
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



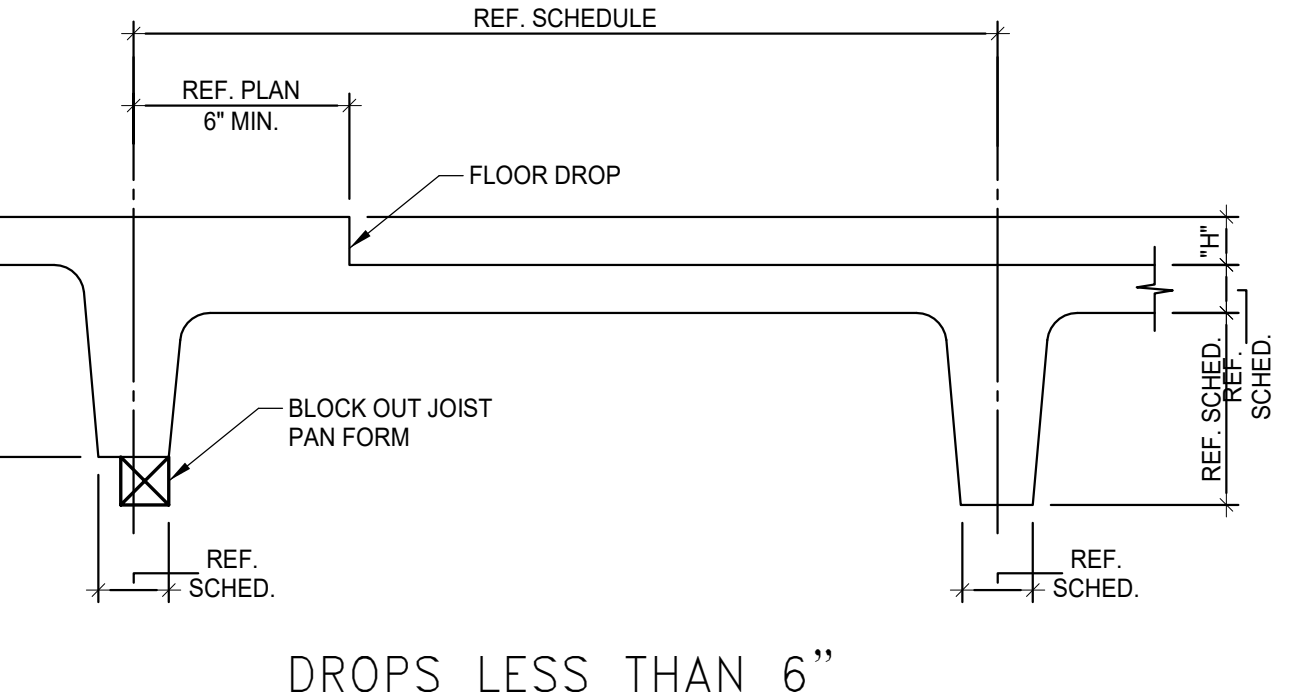
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



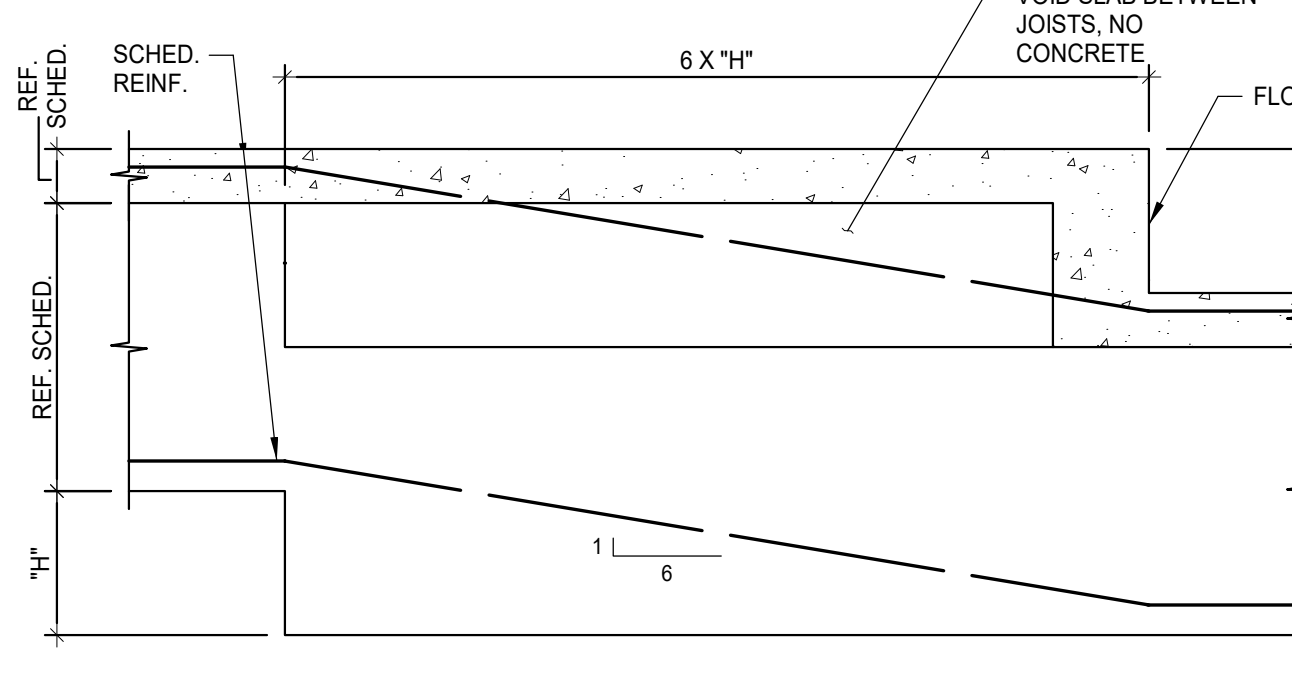
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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



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



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

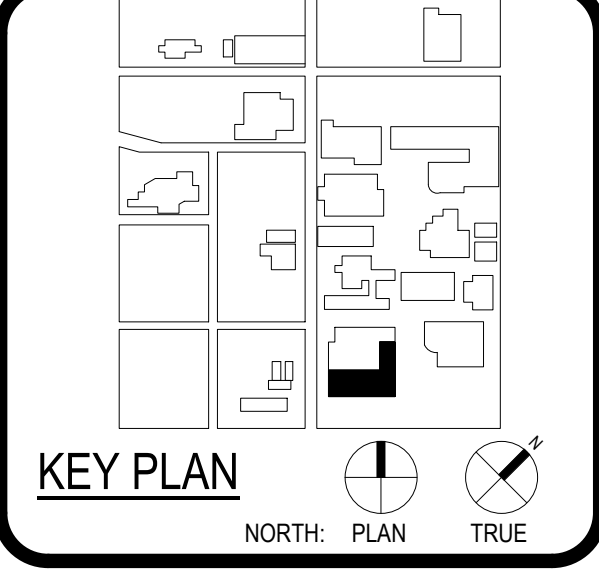
- CONCRETE JOIST NOTES:**
- CJ-1 STEEL PAN-JOIST FORMS SHALL BE SPACED SO THAT JOISTS IN ADJACENT SPANS ARE IN EXACT ALIGNMENT UNLESS SHOWN OTHERWISE. NARROWER WIDTH FORMS SHALL BE COORDINATED WITH BASIC SPACING WHERE MAKE-UPS ARE REQUIRED.
 - CJ-2 WHERE STIRRUPS ARE SCHEDULED, (1) 6-LEG LADDER STIRRUP 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 "BJ" 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.
 601 N.W. Loop 410, Suite 400
 San Antonio, TX 78216
 210-820-0123 P
 210-829-5578 F
 TX Firm BR 1606

ENGINEERING
LUNDY & FRANKE
 ENGINEERING
 580 HEIMER ROAD PH 018 979-7900
 SAN ANTONIO, TEXAS 78232 FX 010 979-7800
 TX FIRM REG. #3388

WFAC Black Box Addition PKG 1



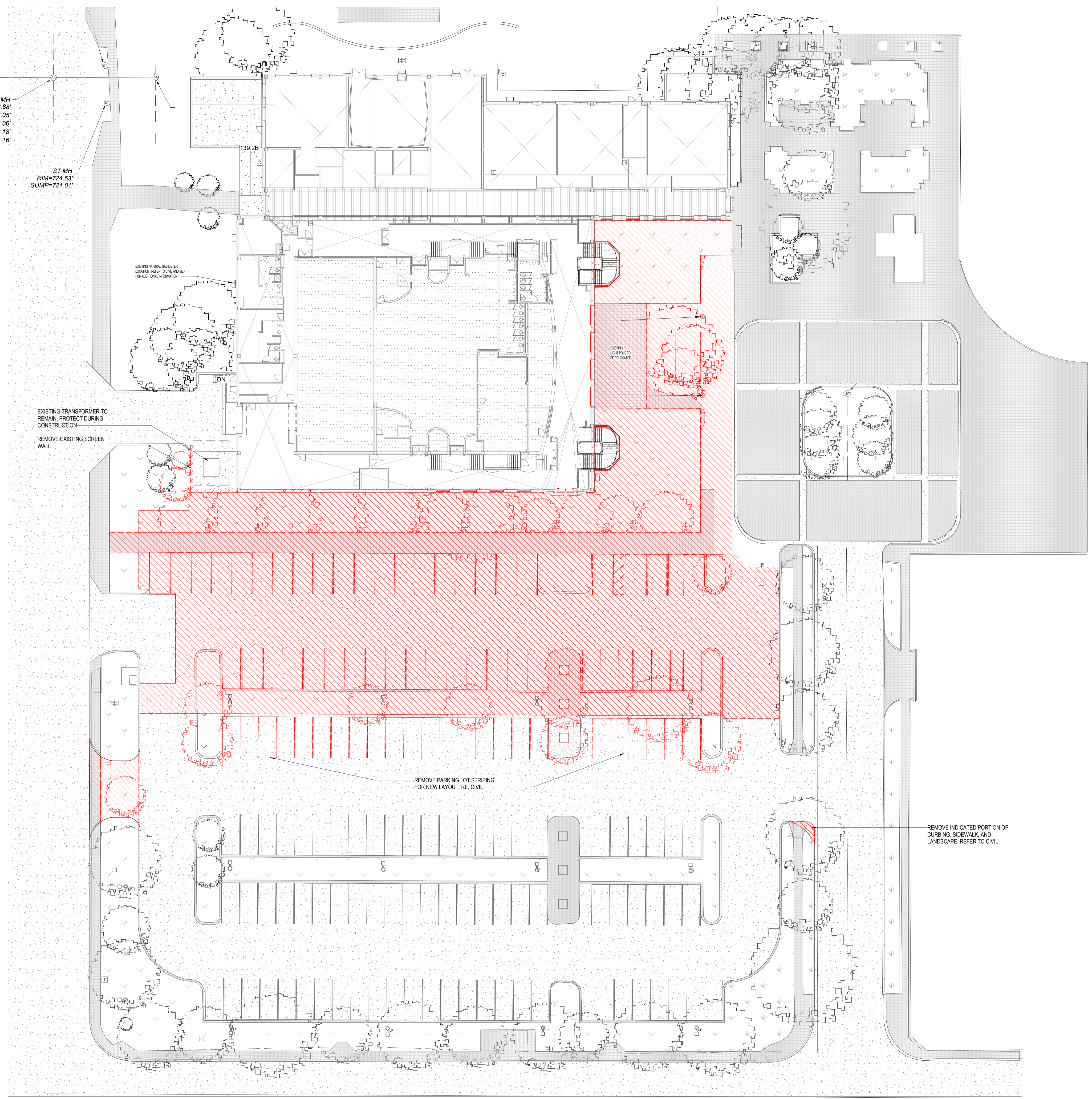
CLIENT Alamo Colleges
 DATE 2024/05/23 PROJECT NUMBER 230462

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.

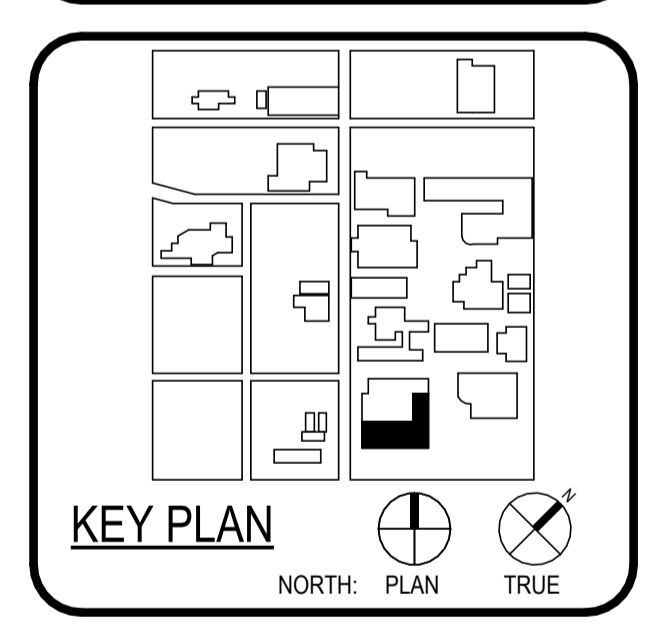


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601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-820-0578 F TX Firm BR 1608	
ARCHITECT	
LANDSCAPE	
ENGINEERING	
MECHANICAL	
ELECTRICAL	
PLUMBING	
CONSTRUCTION	

WFAC Black Box Addition PKG 1

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

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BUILDING NUMBER 1

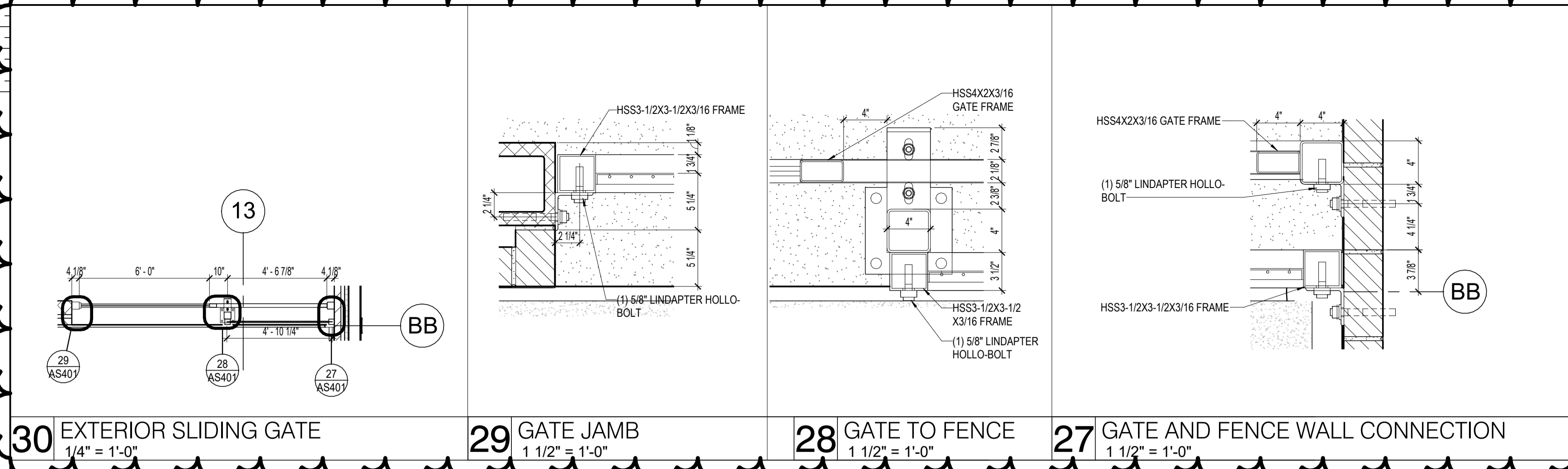
DEMOLITION ARCHITECTURAL SITE PLAN

ASD101

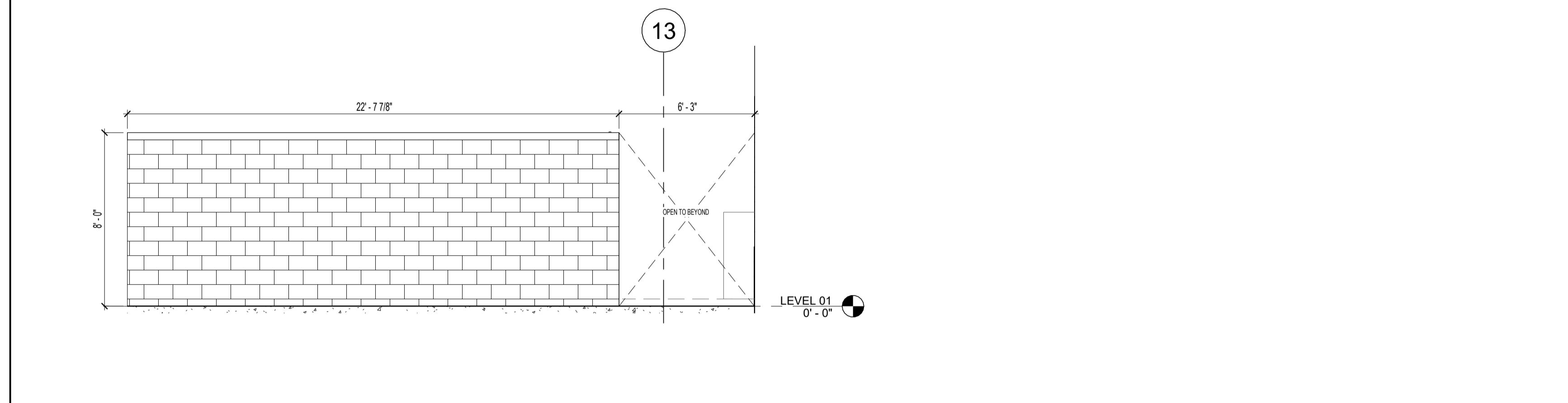
SITE DEMOLITION PLAN LEGEND

- EXISTING BUILDING
- DEMO ENTIRE FACILITY (FOUNDATION, STRUCTURE, WALLS, ROOFS)
- DEMO CHAINLINK FENCE
- DEMO ORNAMENTAL FENCE

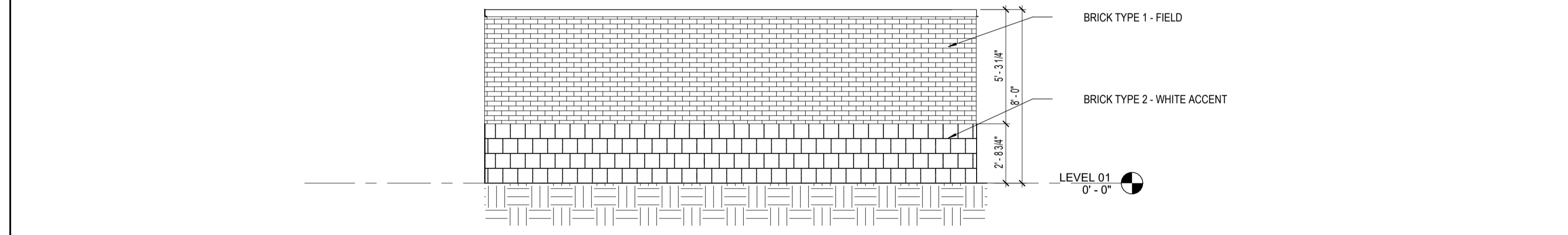
06 DEMOLITION SITE PLAN
1" = 20'-0"



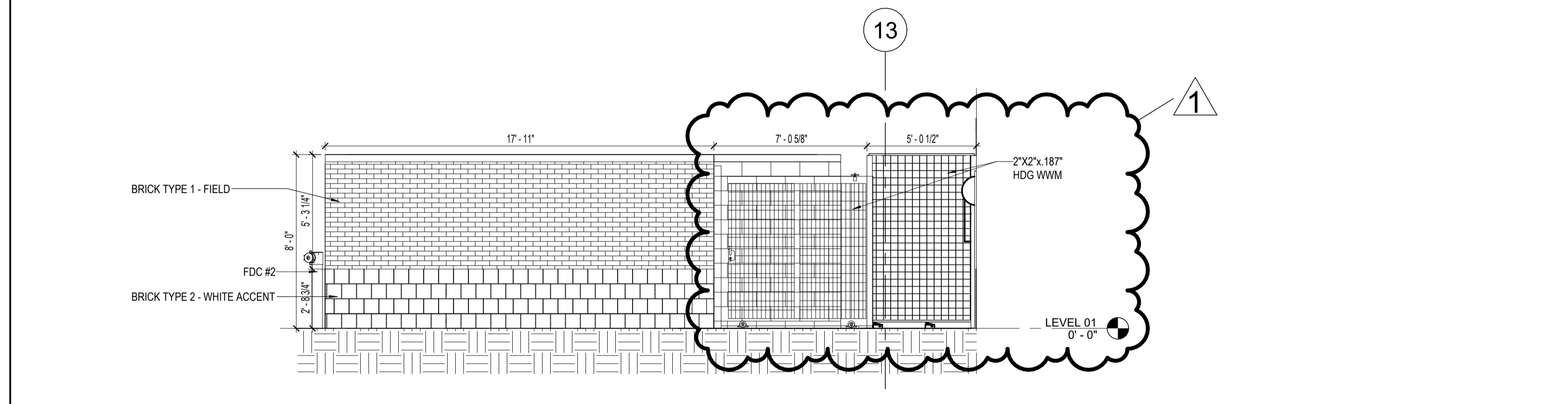
30 EXTERIOR SLIDING GATE 1/4" = 1'-0"
29 GATE JAMB 1 1/2" = 1'-0"
28 GATE TO FENCE 1 1/2" = 1'-0"
27 GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



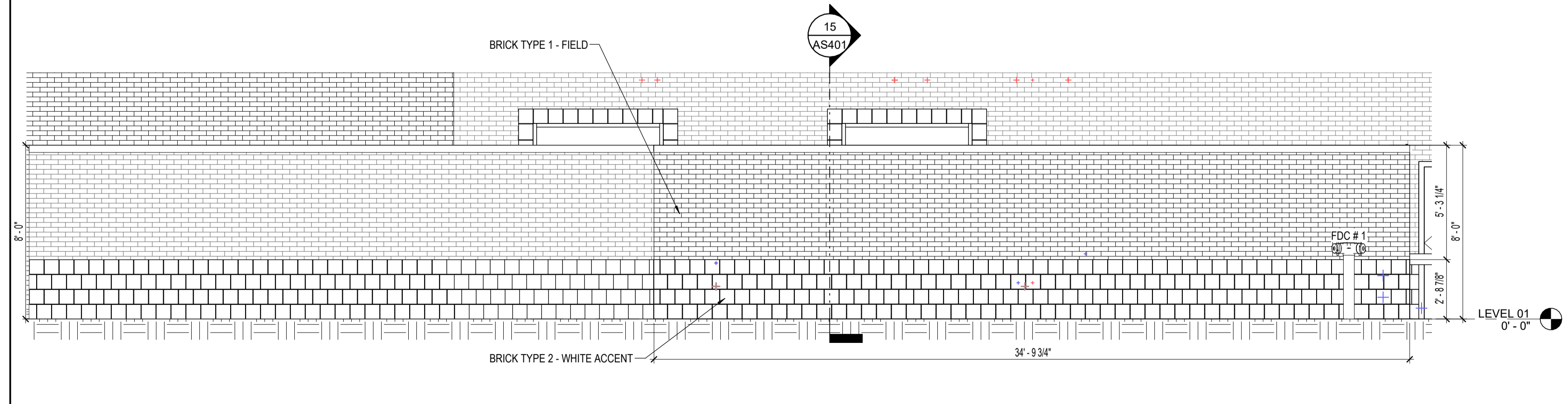
24 NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



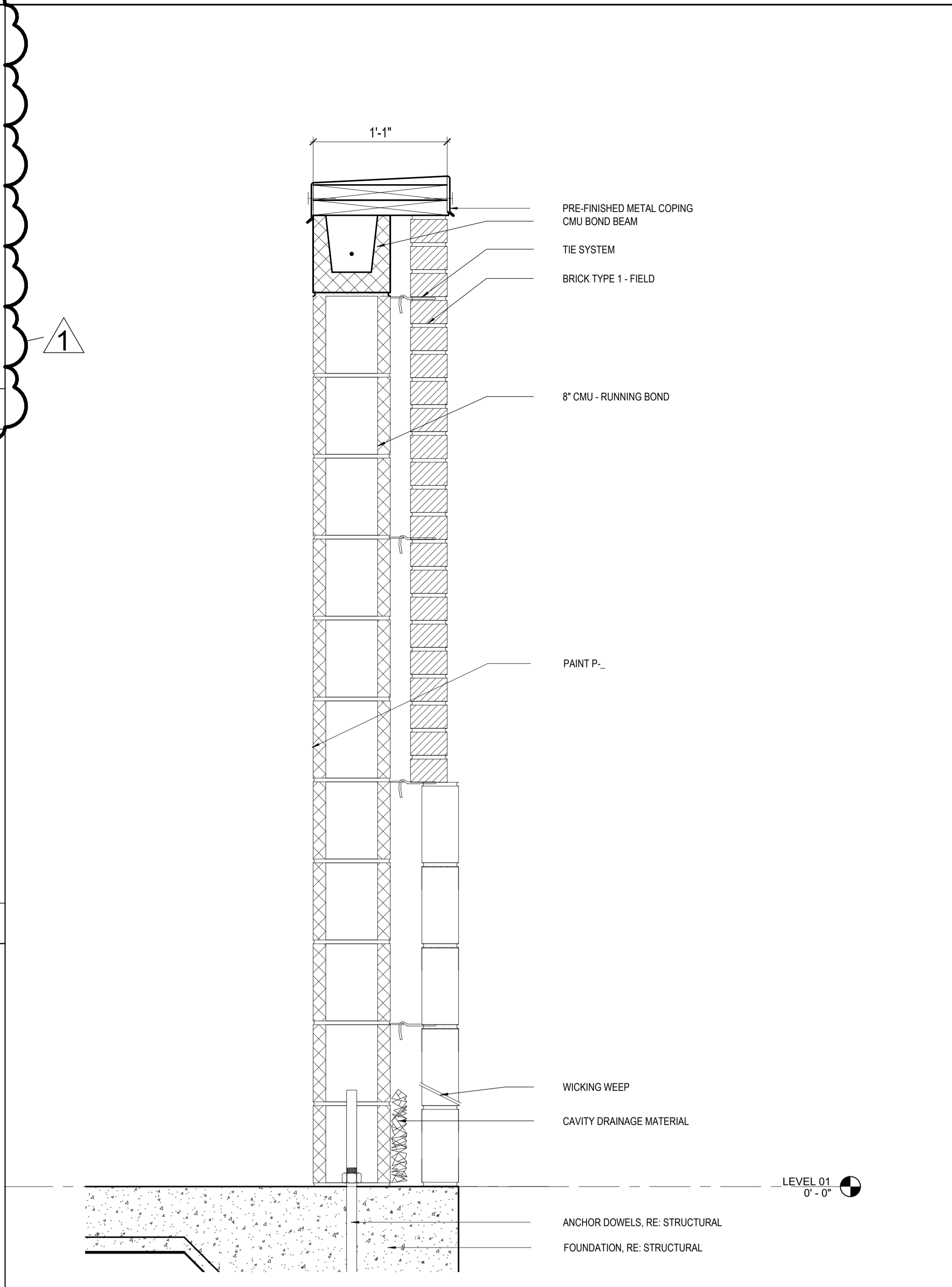
18 EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



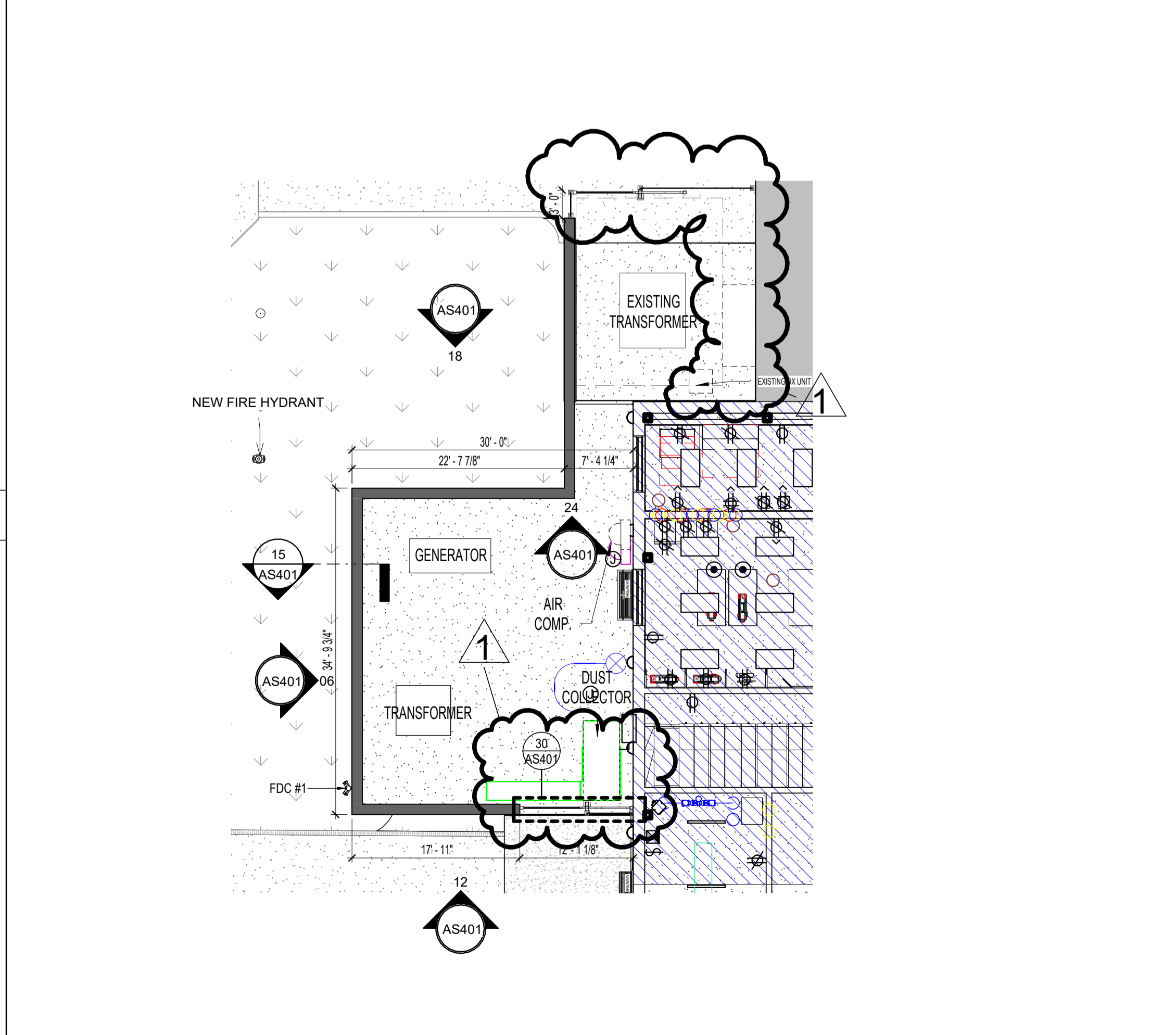
12 EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



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\"/>

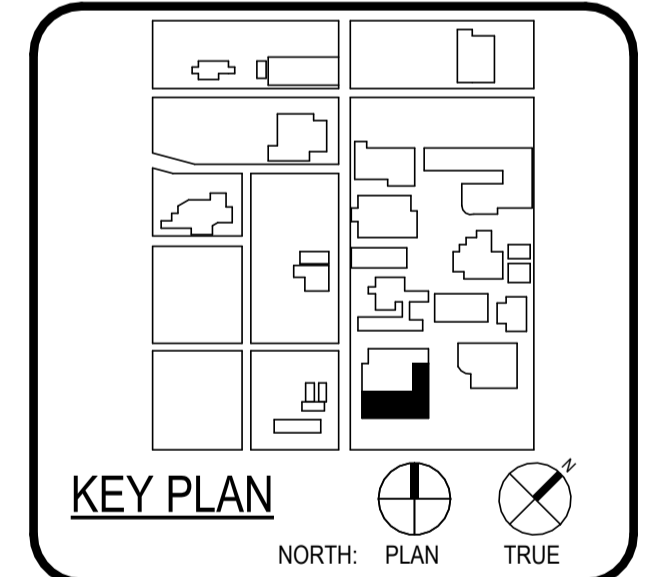
ARCH SITE PLAN LEGEND

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



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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
P&C.com

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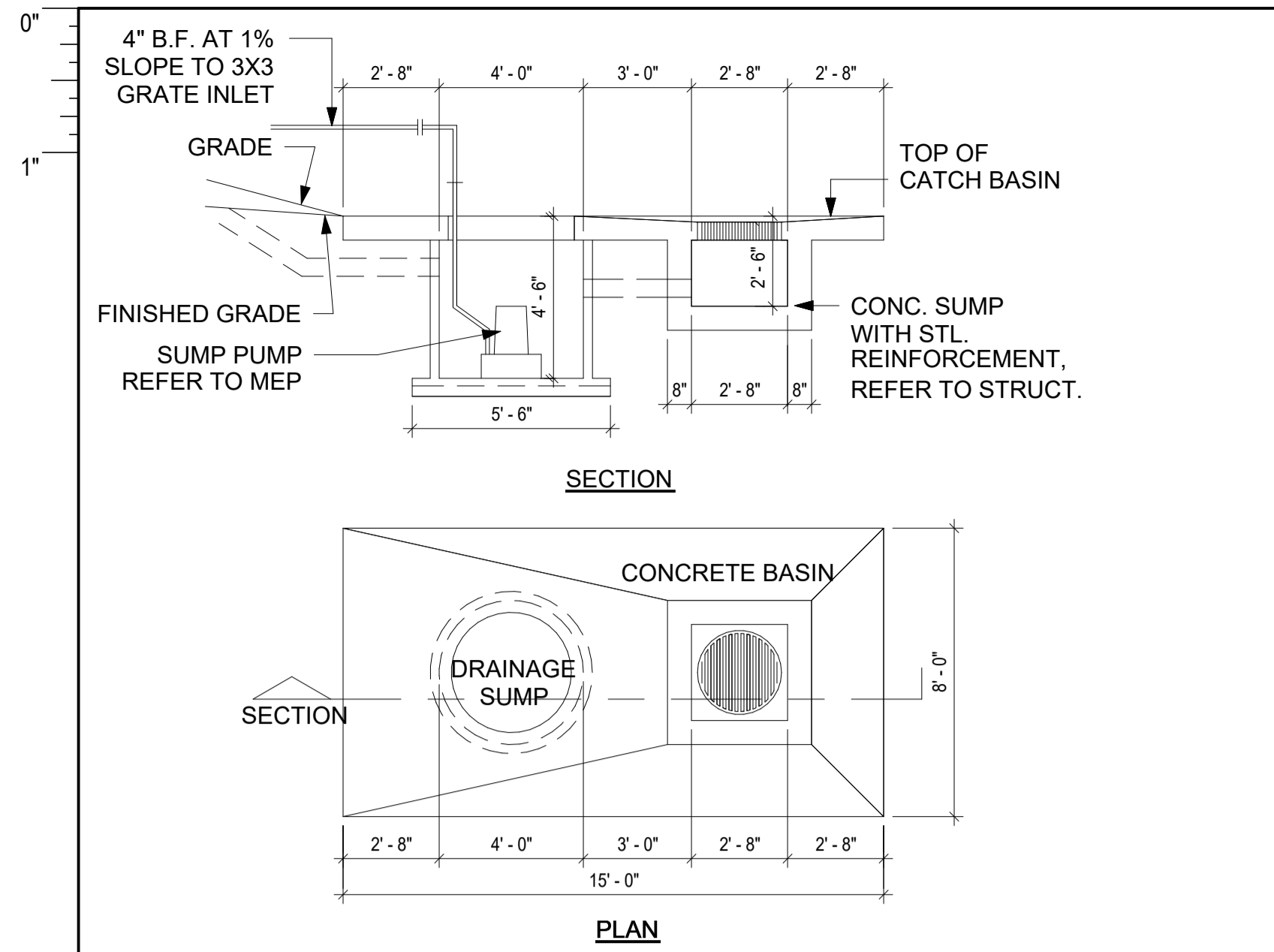


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DATE	230462	
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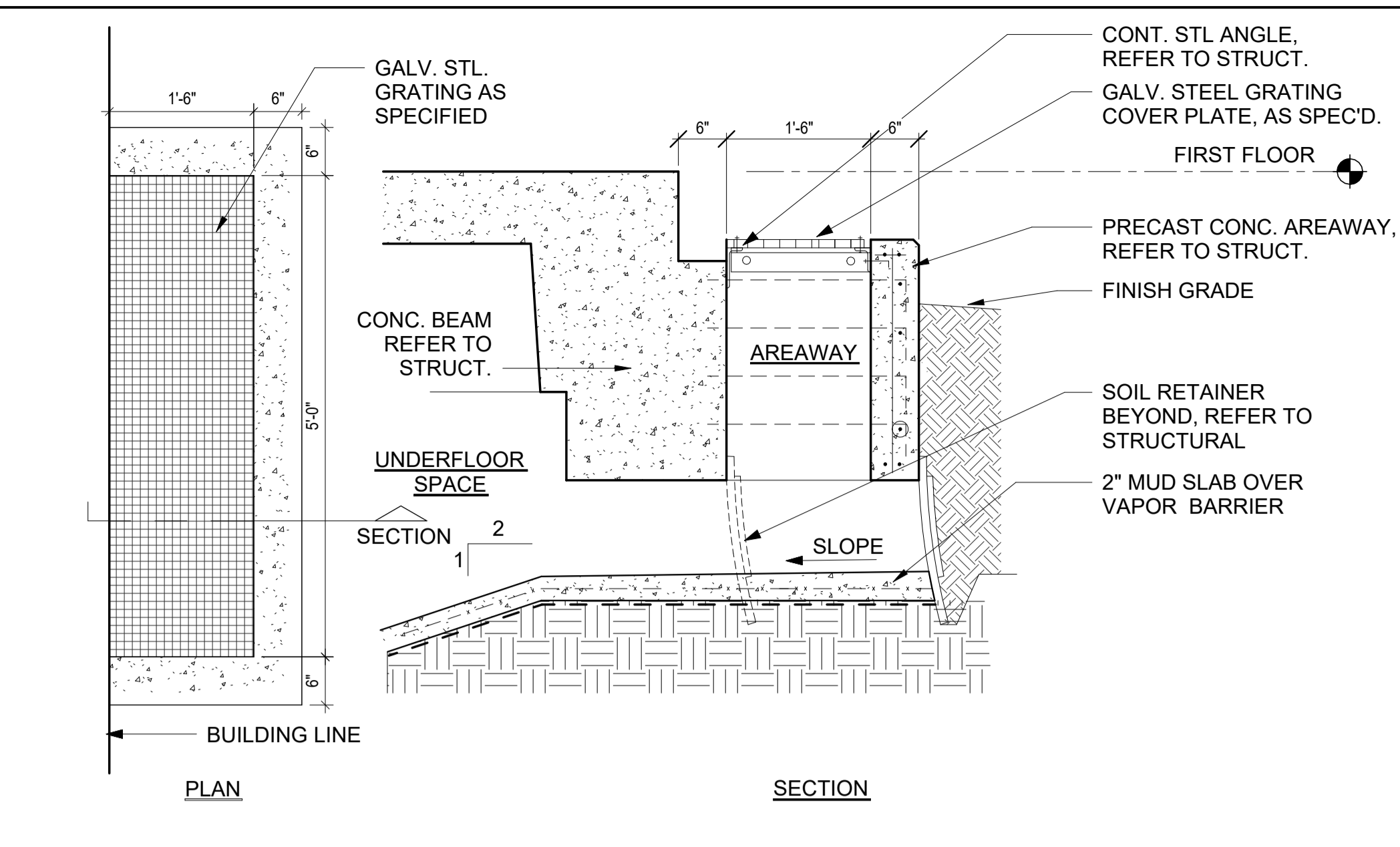
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ARCHITECTURAL ENLARGED SITE PLANS

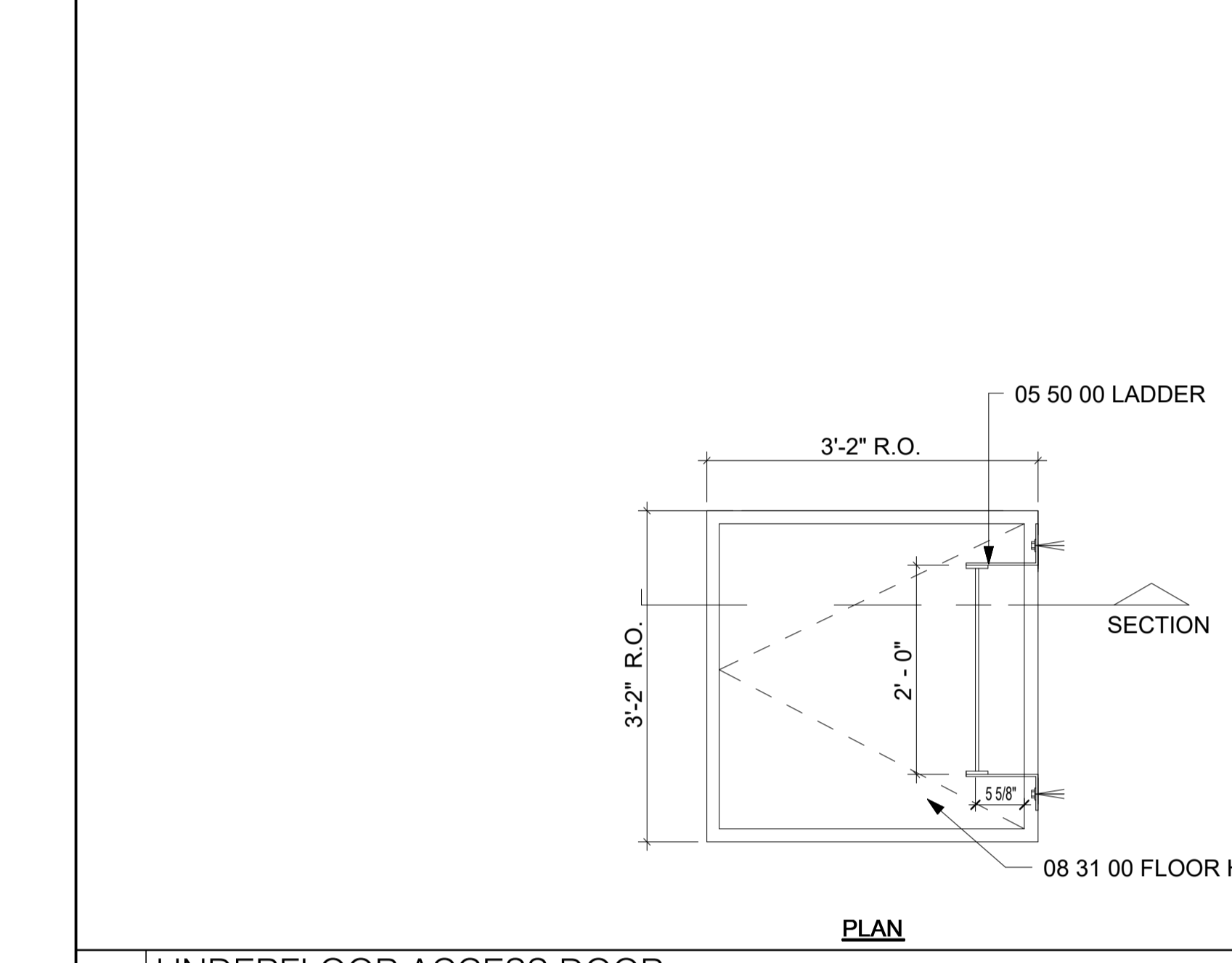
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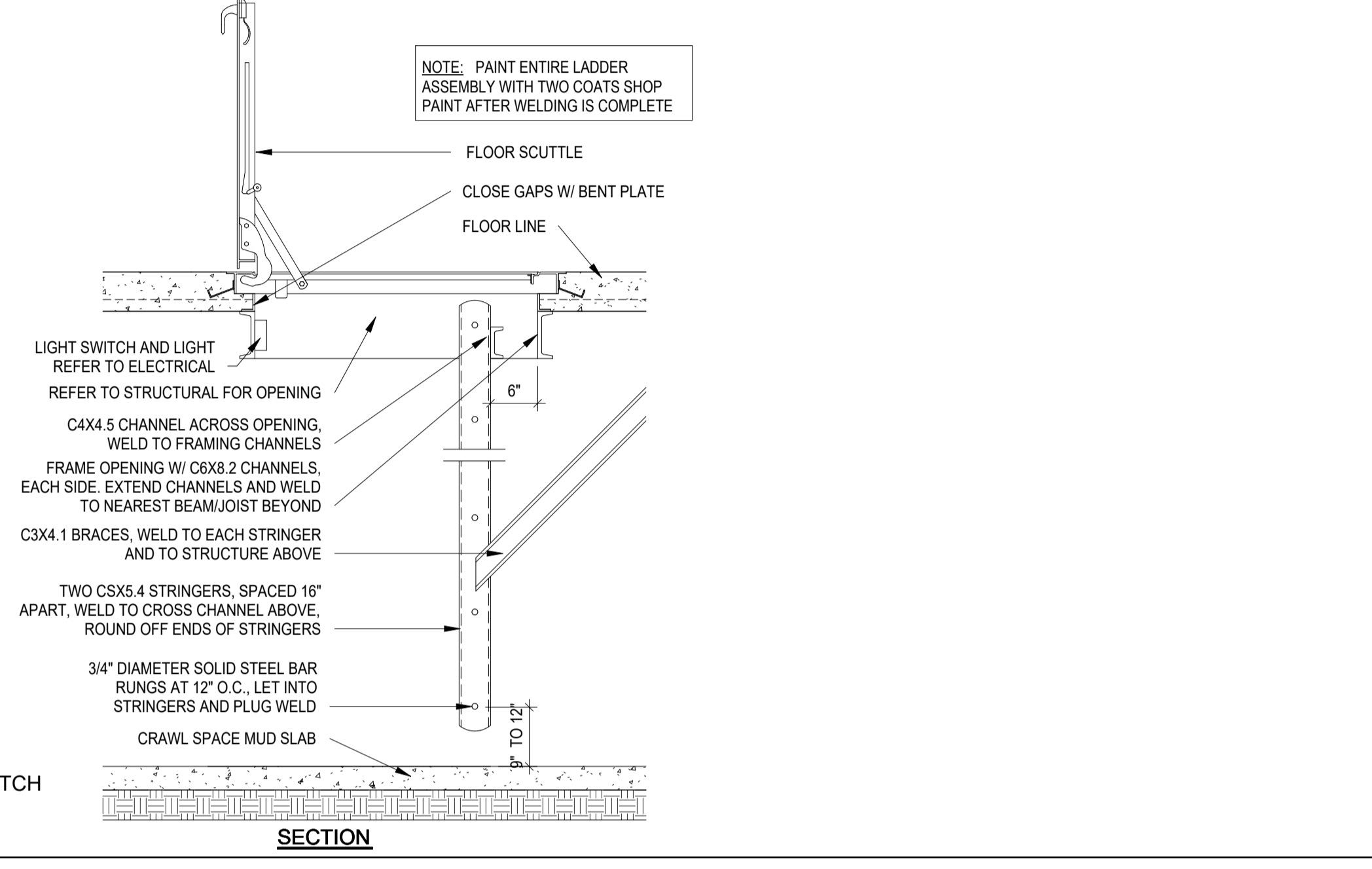
30 UNDERGROUND SUMP PUMP DETAIL
 1/4" = 1'-0"



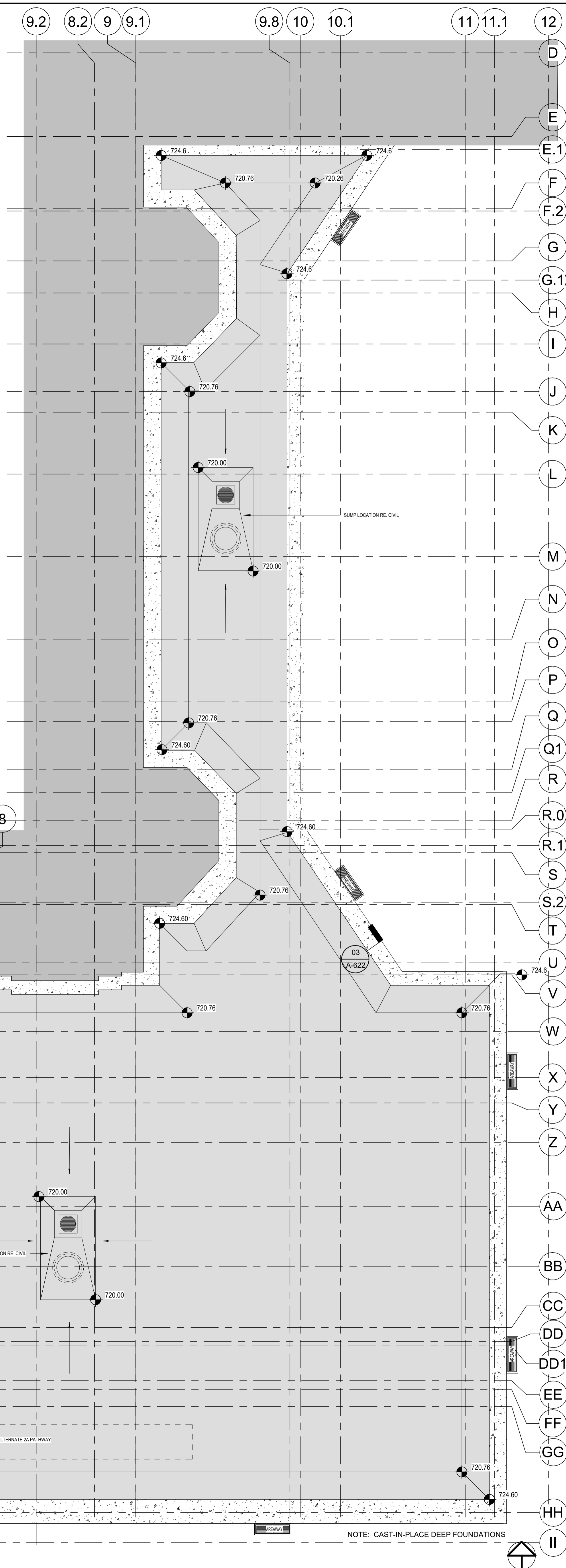
29 AREAWAY DETAIL
 3/4" = 1'-0"



18 UNDERFLOOR ACCESS DOOR
 3/4" = 1'-0"



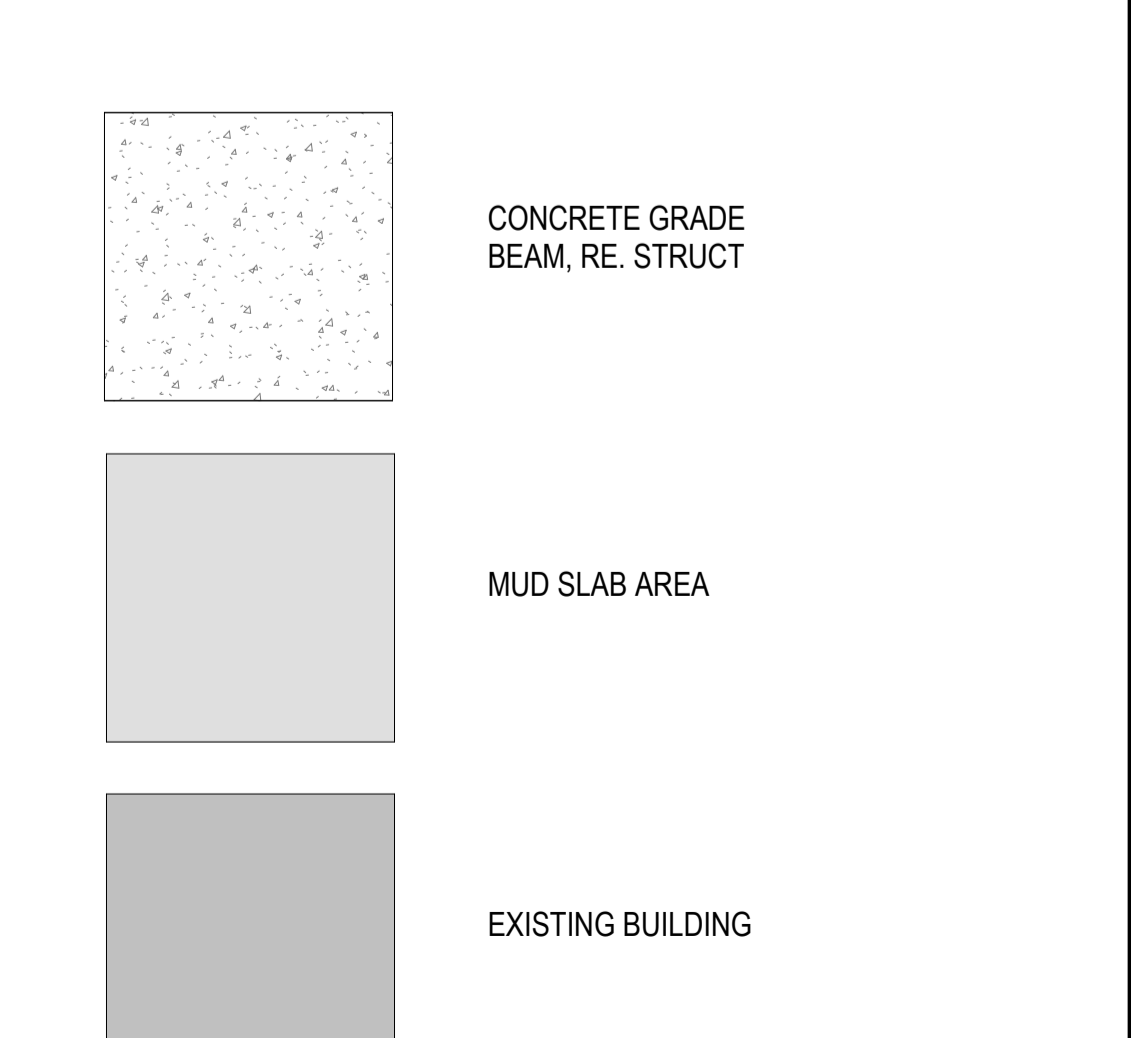
06 CRAWLSPACE
 1/8" = 1'-0"



GENERAL ARCH PLAN NOTES

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
- DRAWINGS NOTED AS "N.T.S." OR "N.T.S." ARE NOT TO SCALE.
- ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
- NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP." SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR.
- DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "V.I.P." SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK.
- DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
- REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
- DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" OR "CLR" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS.
- REFER TO PARTITION TYPES ON A-800 SERIES SHEETS.
- ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE _38_ U.N.O.
- ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE _F3_ U.N.O.
- ADJOINING FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE.
- PROVIDE AND INSTALL CONTINUOUS REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE.
- ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
- ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O. NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS.
- ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT.
- COORDINATE ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION.
- ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48.
- PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES.
- COORDINATE HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED.
- ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
- ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS.
- ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
- APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS.
- REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

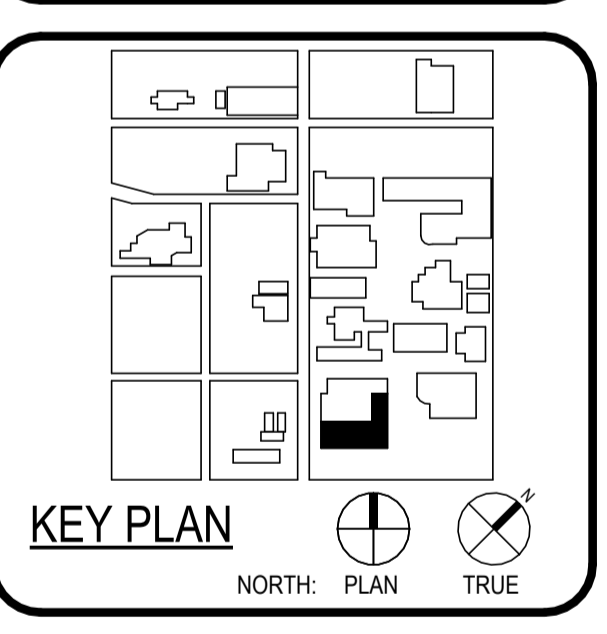
FLOOR FINISH LEGEND



ARCHITECT 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

ARCHITECT BA & ARCHITECTS
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 San Antonio, TX 78203

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ISSUE FOR CONSTRUCTION

BUILDING NUMBER 1

CRAWLSPACE FLOOR PLAN - COMPOSITE

ISSUE FOR CONSTRUCTION

DOOR SCHEDULE - PKG1											
MARK	ROOM NAME	PHASE	PAIR	PANEL				FRAME			
				WIDTH	HEIGHT	TYPE	MATERIAL	GLASS	TYPE	FINISH	
LEVEL 01											
159	BLACKBOX	New Construction	PAIR	14' - 0"	12' - 0"	SCU		N	00UE	PAINTED STEEL	

MATERIALS	
AL - ALUMINUM	VL - VINYL
HM - HOLLOW METAL	PL - PLASTIC LAMINATE
HG - HOLLOW METAL GALV	WS - WOOD, SOLID CORE
HS - HM 24 GA. STEEL	WH - WOOD, HOLLOW CORE
SS - STAINLESS STEEL	PTDF - PAINTED TYPE

REMARKS LEGEND
1. WITH EGRESS DEVICE
2. MAGNETIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER

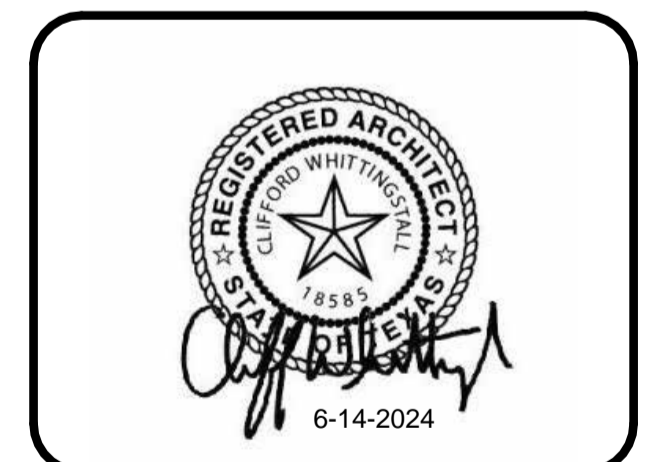
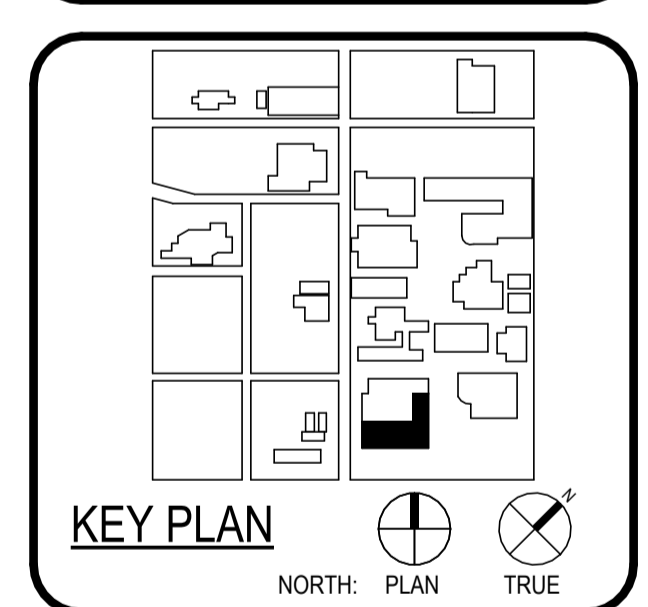


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SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BAA ARCHITECTS
CONTRACTOR	CON
DESIGNER	DES
LANDSCAPE	LAN
ROOF AND GROUND	R&G
STRUCTURAL	STR
LINENY & FRANK ENGINEERING	L&F
MECHANICAL	ME
ELECTRICAL	EL
ENVIRONMENTAL	ENV
MEASUREMENT	MEAS
MARKER	MARK
REVISION	REV
DATE	T 2024.06.14

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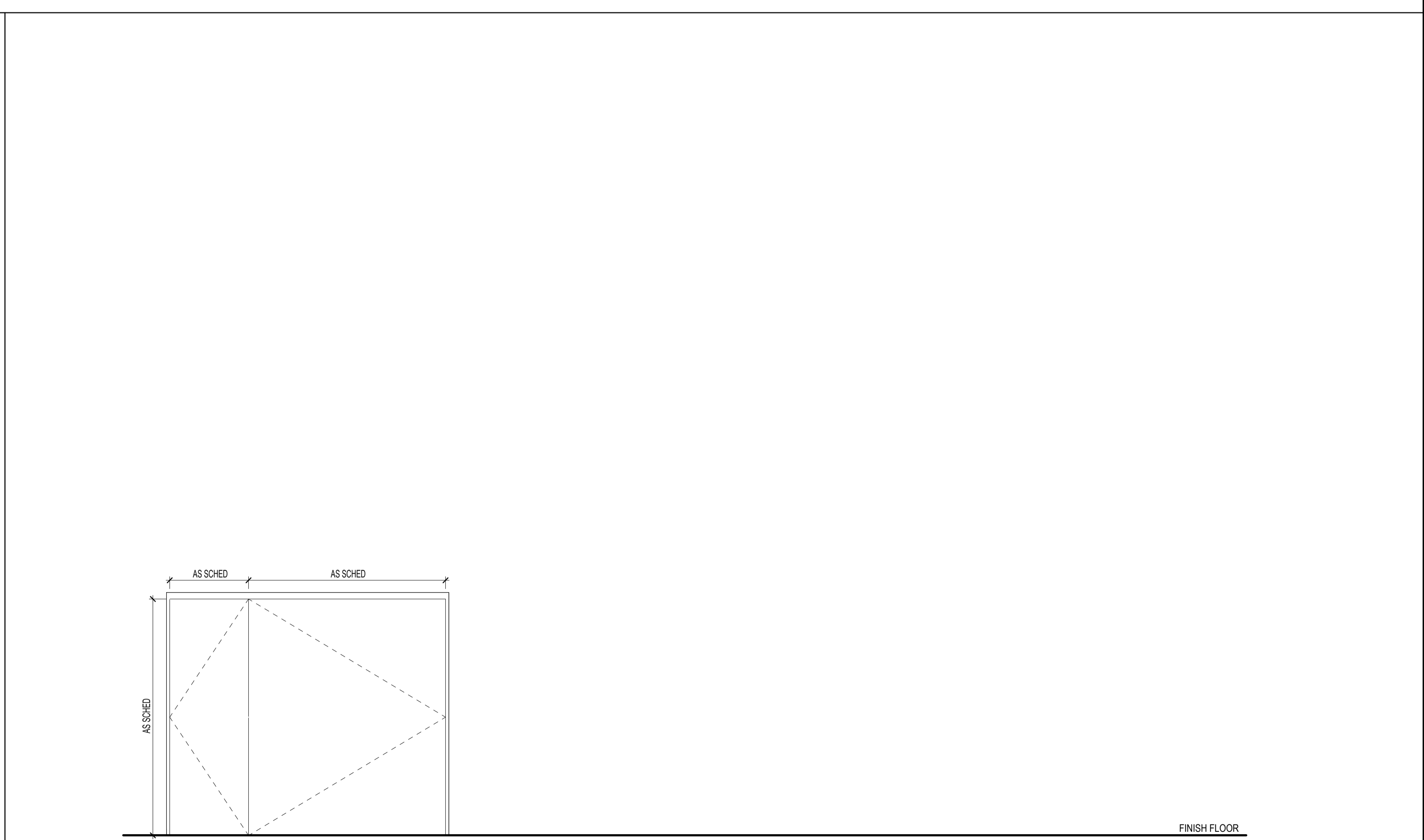
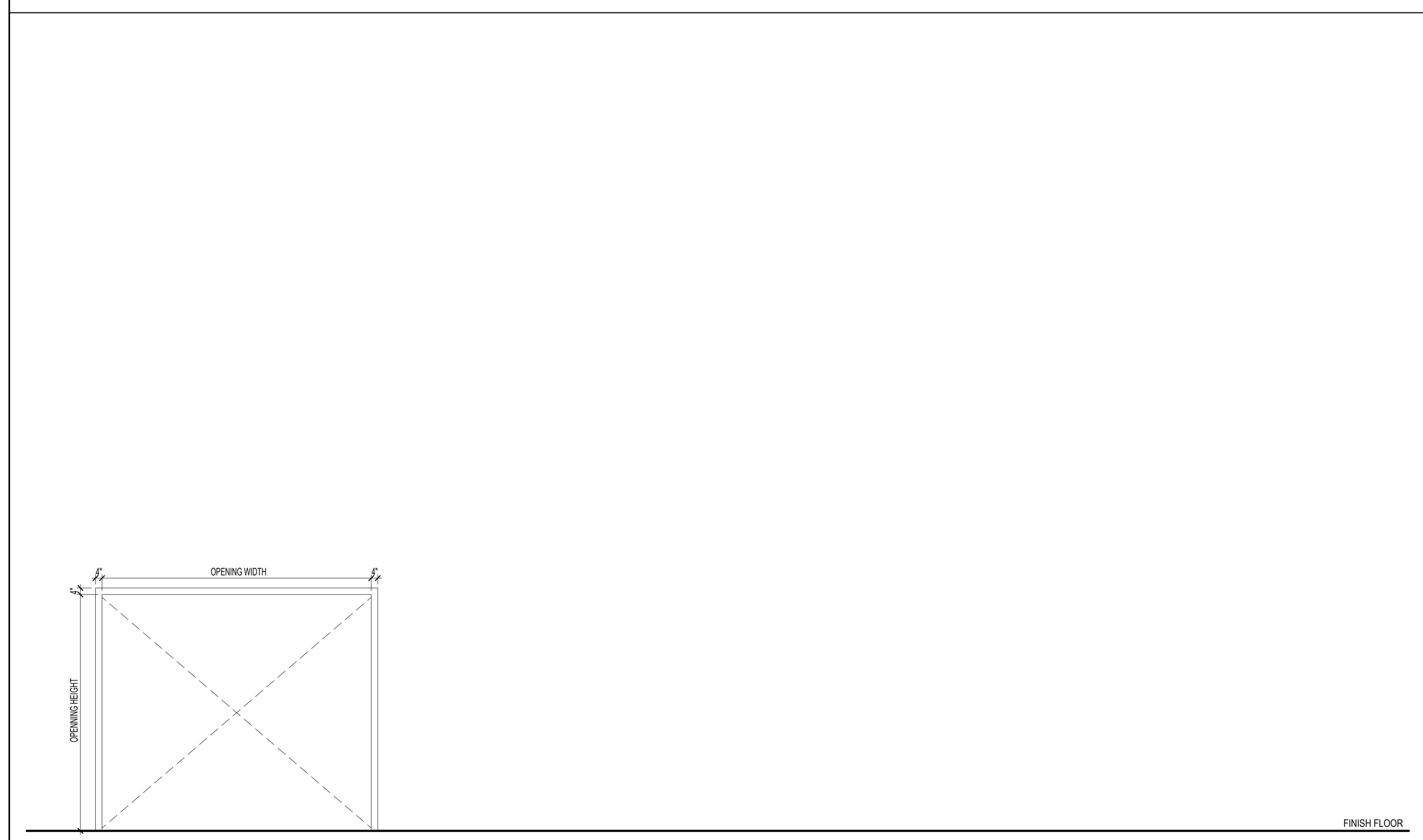
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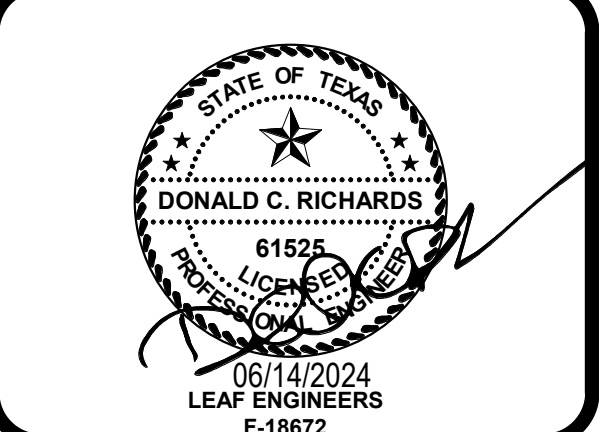
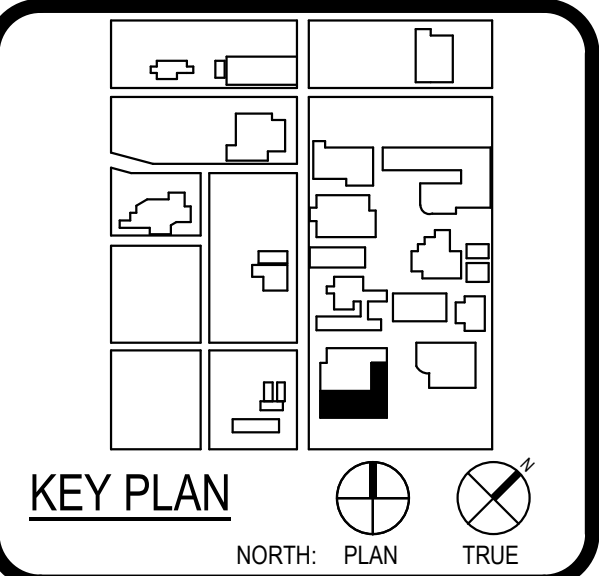
**DOOR SCHEDULE
PANEL AND FRAME
TYPES**

A-811



DOOR FRAME CONFIGURATIONS PKG 1
1/4" = 1'-0"

DOOR PANEL TYPES PKG 1
1/4" = 1'-0"

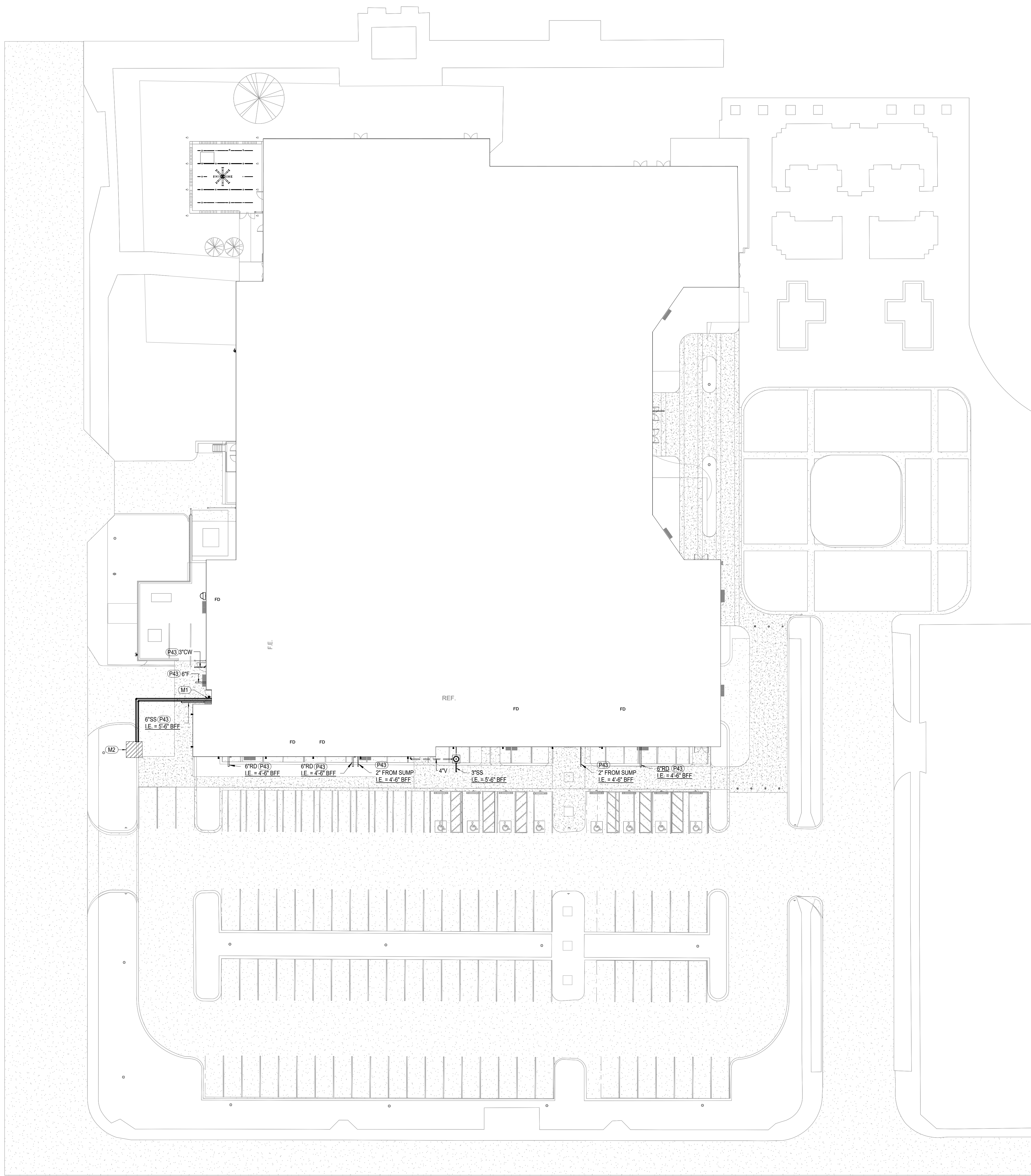


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MECHANICAL AND PLUMBING SITE PLAN

- KEYNOTES ALL**
- M1 4" CHWS/R PIPING ROUTED FROM EXISTING CAMPUS LOOP VAULT BELOW FLOOR SLAB. REFER TO M-101D FOR CONTINUATION
 - M2 APPROXIMATE LOCATION OF EXISTING CHILLED WATER LOOP VAULT.
 - P43 REFER TO CIVIL DWGS. FOR CONTINUATION.

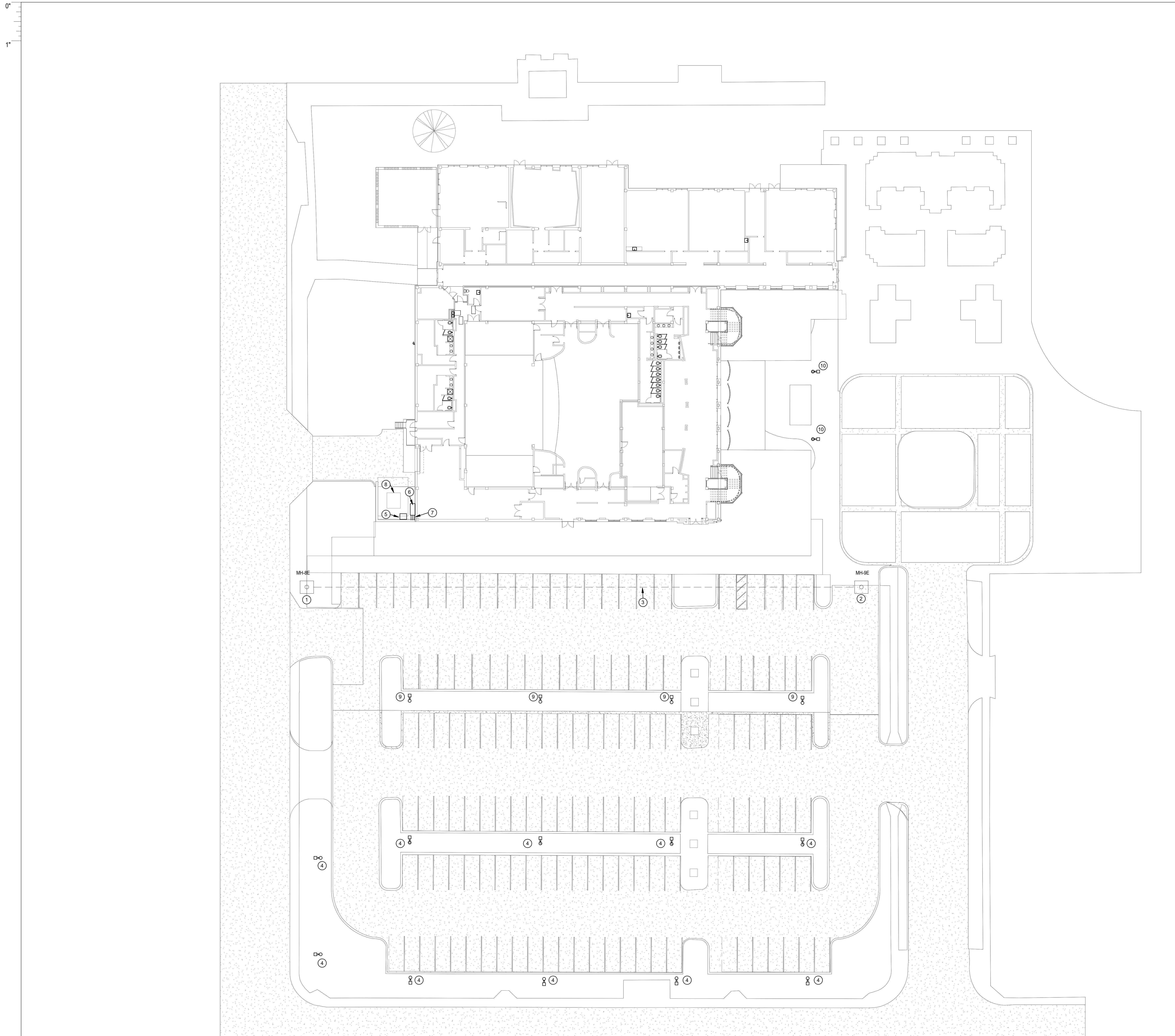


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DEMO SITE PLAN GENERAL NOTES:

- 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:

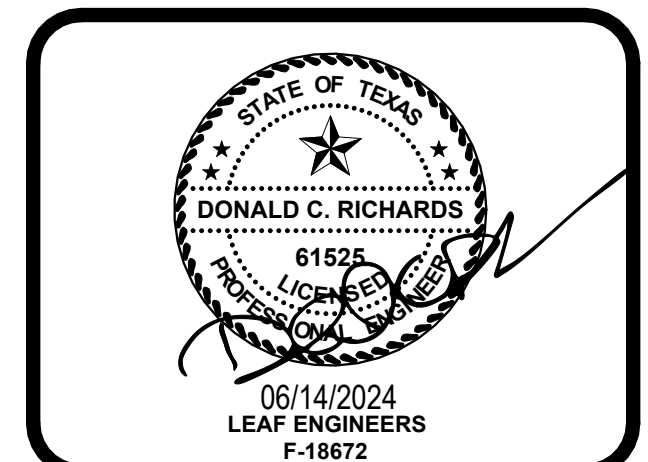
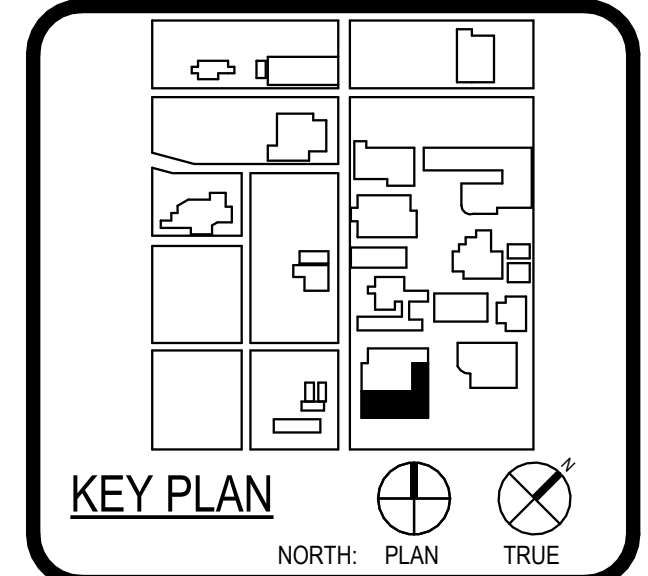
- EXISTING ELECTRICAL MANHOLE.
- EXISTING ELECTRICAL MANHOLE SHALL BE DEMOLISHED AND RELOCATED.
- EXISTING UNDERGROUND ELECTRICAL DUGBANK WITH 4 EXISTING CONDUITS TO BE REROUTED FOR NEW BLACK BOX EXPANSION.
- CONTRACTOR TO VERIFY NEW CONSTRUCTIONS DOES NOT OVERLAP EXISTING PARKING LOT LIGHTING. IF NEW 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.



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 210-349-1000
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 210-349-1000
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



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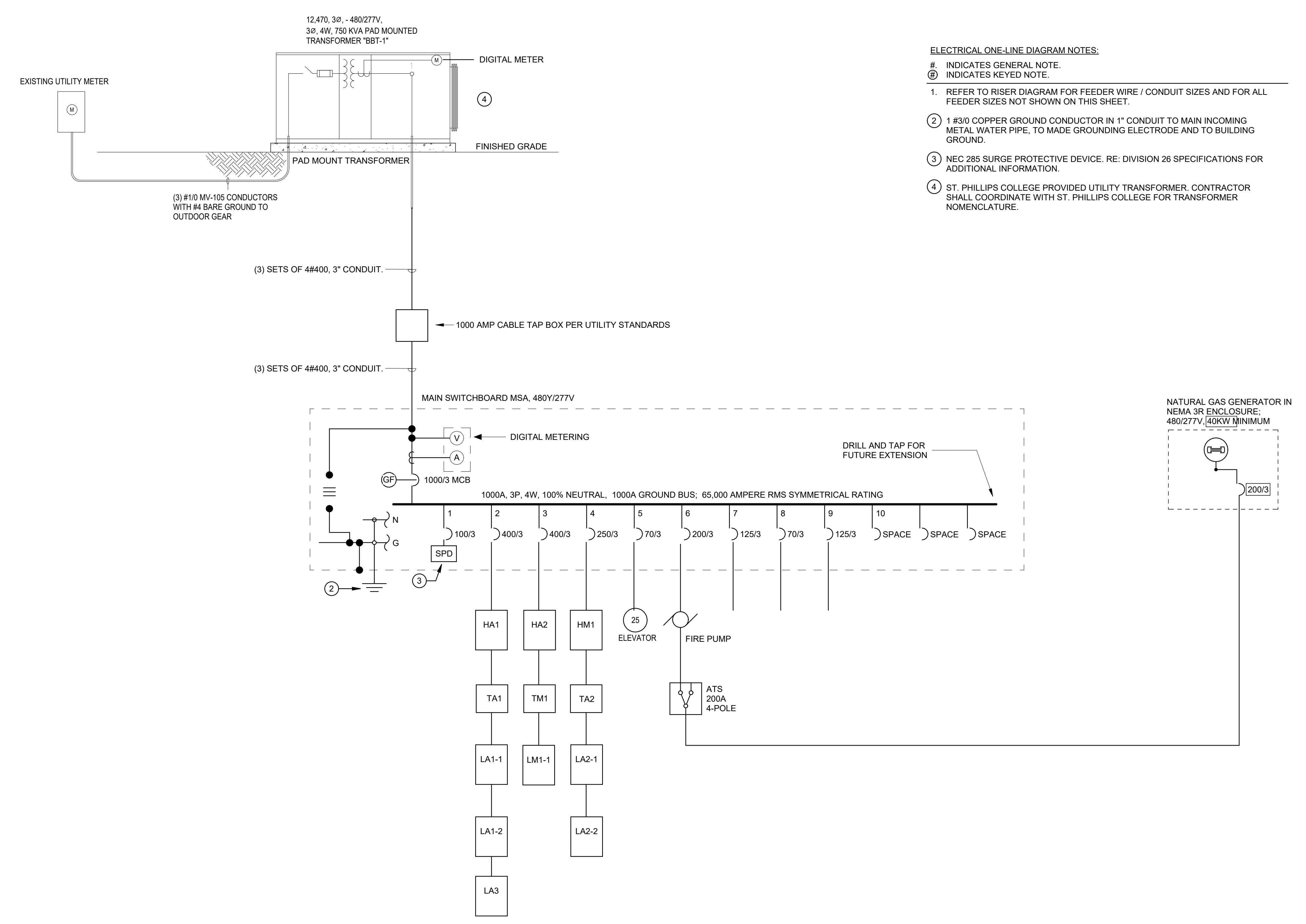
DEMO SITE POWER PLAN

EDS-101

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- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
 - Ⓢ 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.

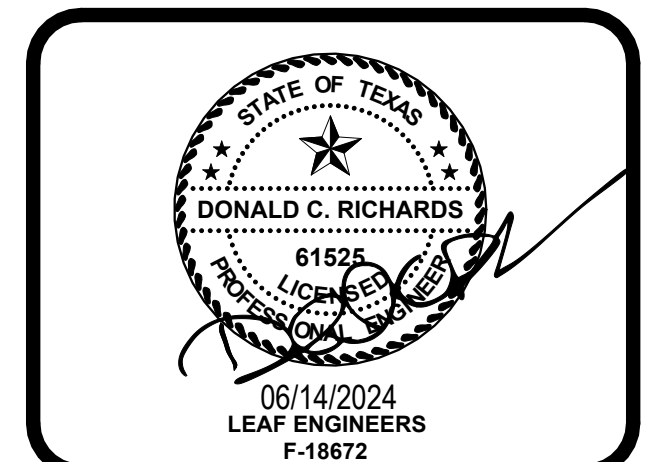
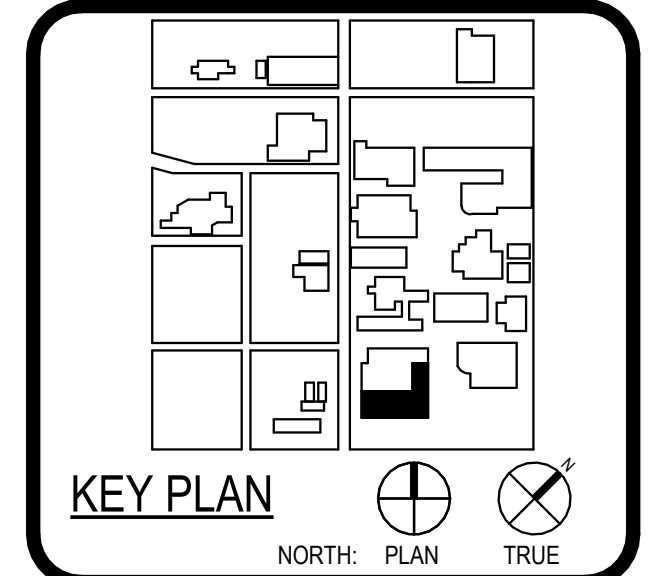


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DESIGNER	PKB ARCHITECTS
LANDSCAPE	PKB ARCHITECTS
SCULPTURE GROUP	PKB ARCHITECTS
MECHANICAL	PKB ARCHITECTS
ELECTRICAL	PKB ARCHITECTS
PLUMBING	PKB ARCHITECTS
MECHANICAL	PKB ARCHITECTS
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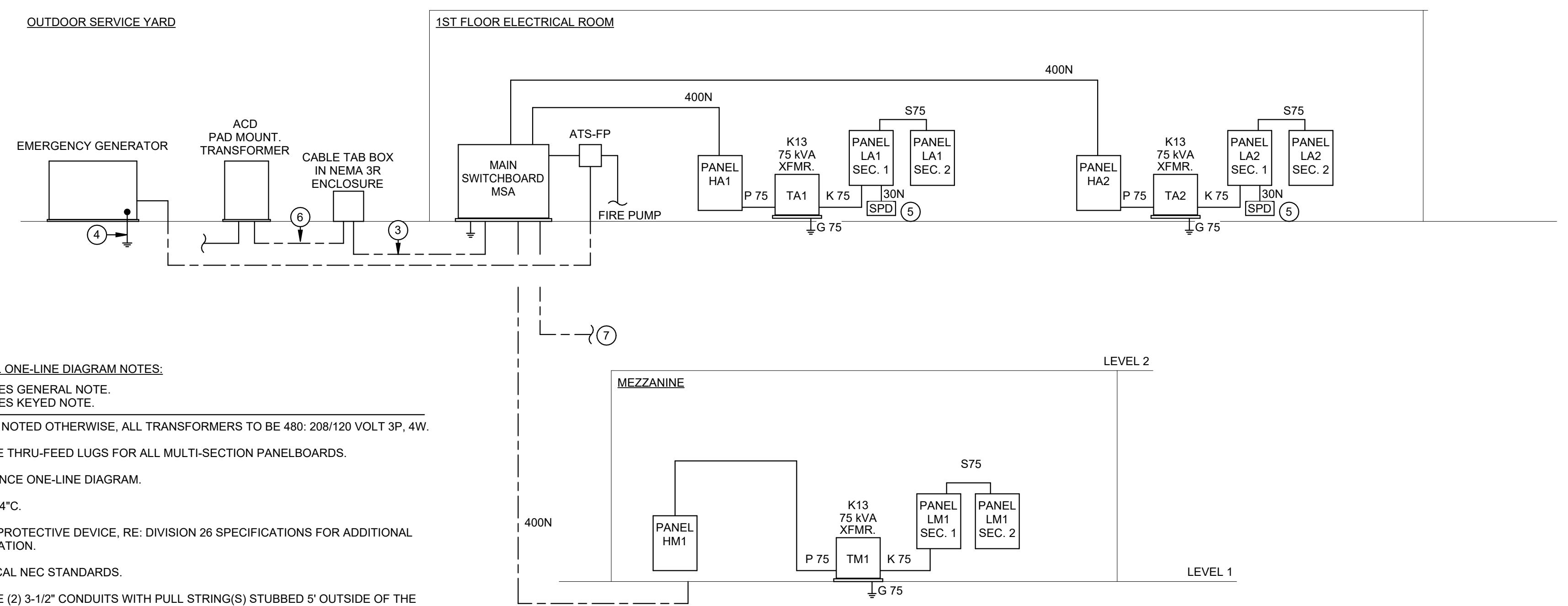
CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

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	

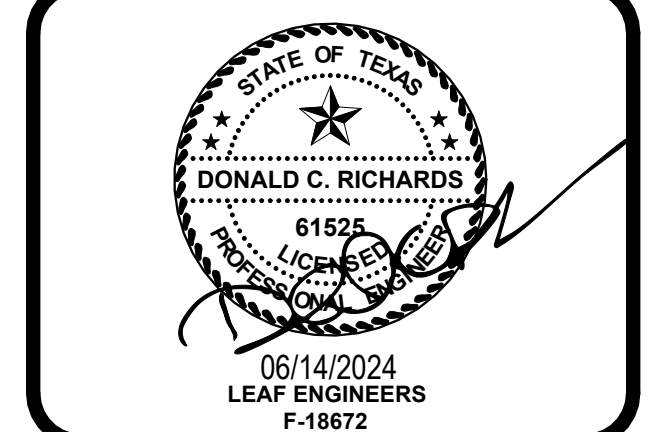
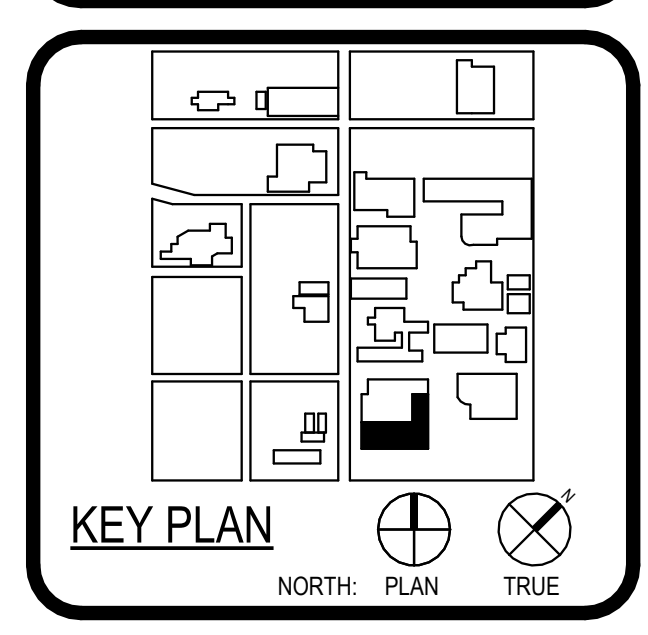
TRANSFORMER FEEDER SCHEDULE				
TAG NUMBER	CONDUCTOR QUANTITY AND SIZE	CONDUIT SIZE	SETS	COMMENTS
P15	3#10, 1#10G	3/4"	1	
S15	4#6, 1#6G	1 1/2"	1	
K15	3#4, 1#6N, 1#6G	1 1/4"	1	
G15	1#6G	1/2"	1	
P15	2#6, 1#10G	3/4"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
S15	3#4, 1#6G	1 1/2"	1	FOR 480 1Ø: 120/240 1Ø TRANSFORMERS
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
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



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

ISSUE FOR CONSTRUCTION
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...

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. 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...

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.

Legend entries for Circuit Related, Lighting, Control, Power Outlets, Telephone/Data, and Equipment. Includes symbols for lighting fixtures, switches, dimmers, and various electrical components.

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. IF ARCHITECTURAL AND ELECTRICAL DRAWINGS CONFLICT IN EXACT COUNT OR FIXTURE TYPE, PROVIDE THE GREATER QUANTITY OR COST TYPE UNLESS OTHERWISE INSTRUCTED.

CONTACTOR SCHEDULE table with columns: DESIGNATION, CIRCUITS SERVED, CONTACT AMPS, N.O. POLES, COIL VOLTS, CONTROL, SUPPLY CKT., REMARKS. Row 1: C1, 1HA-6, 20, 2, 277, DDC, 1HA-6, ASCO 918 REMOTE CONTROL SWITCH.

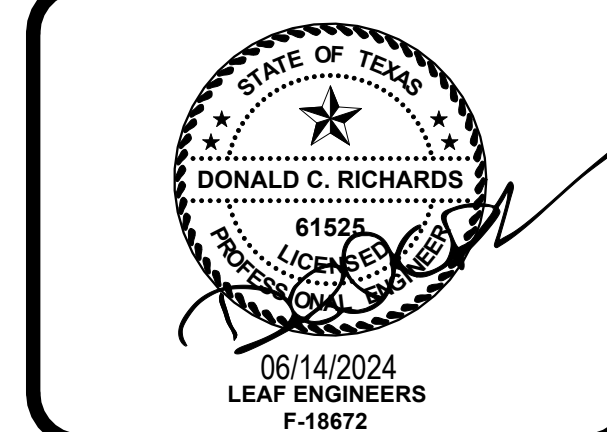
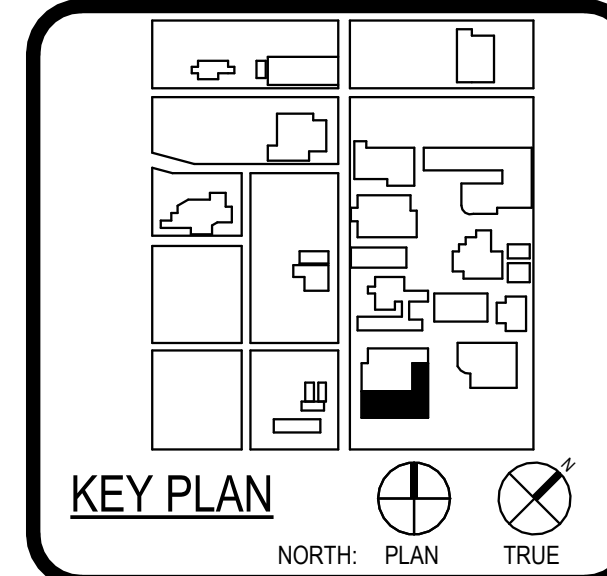
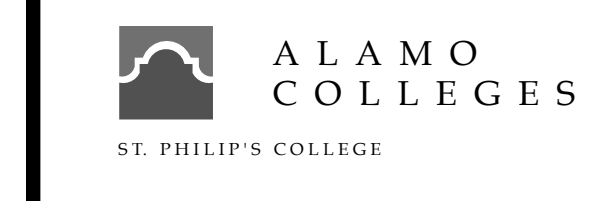
1 PROVIDE ASCO ACCESSORY 47 SOLID STATE TWO-WIRE CONTROL INTERFACE MODULE.



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



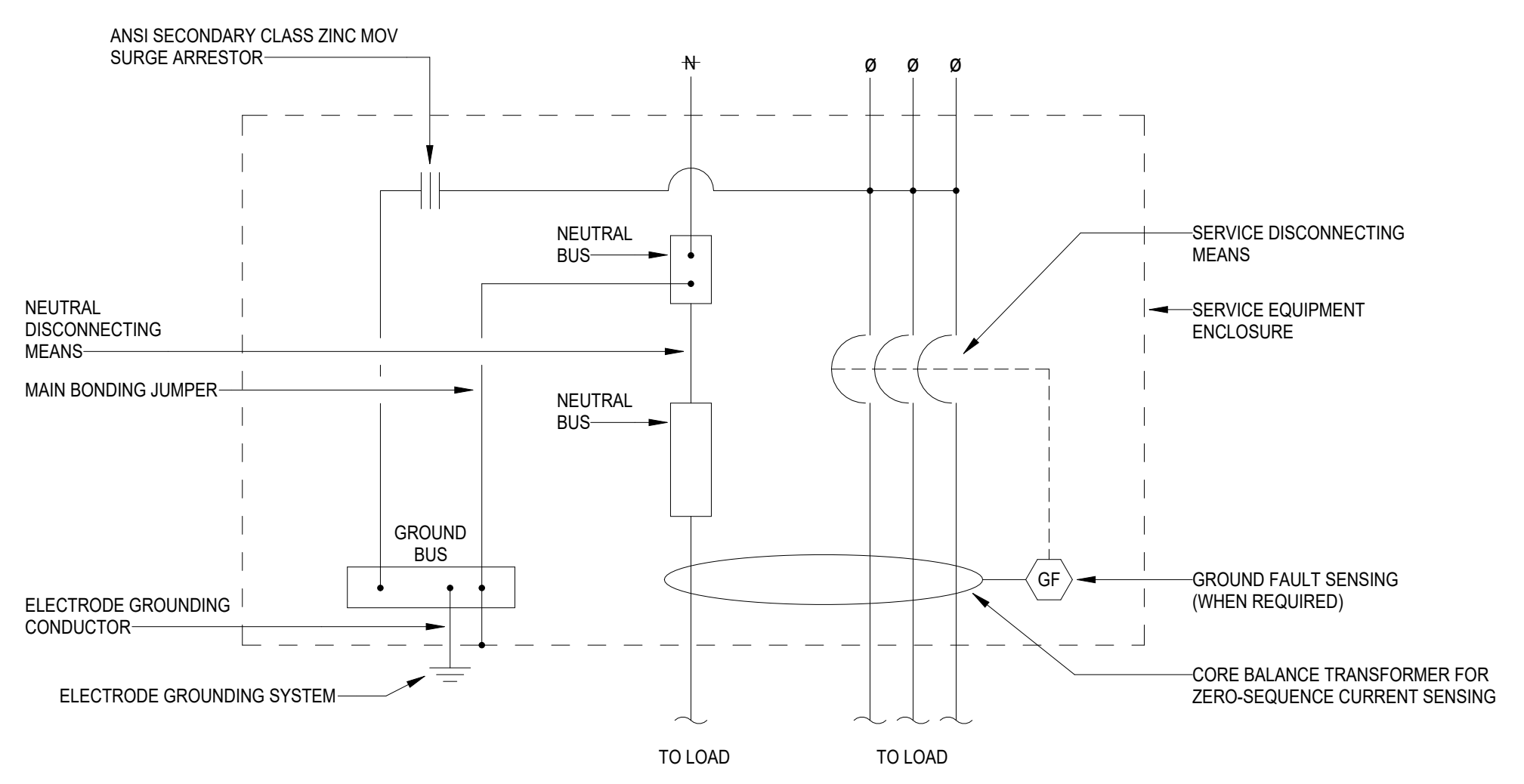
WFAC Black Box Addition PKG 1 1801 Main Luther King Dr., San Antonio, TX, 78203. ISSUE FOR CONSTRUCTION



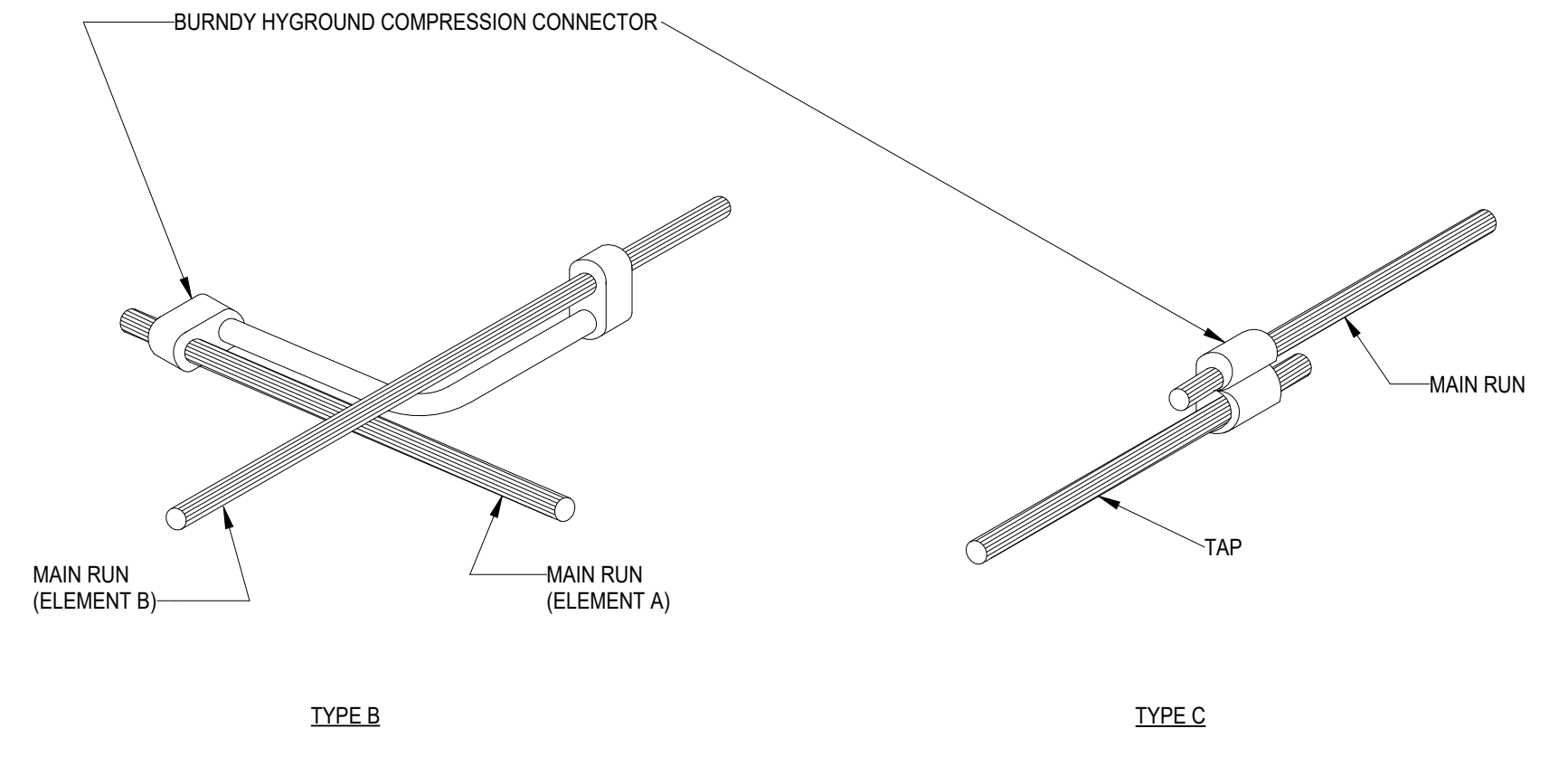
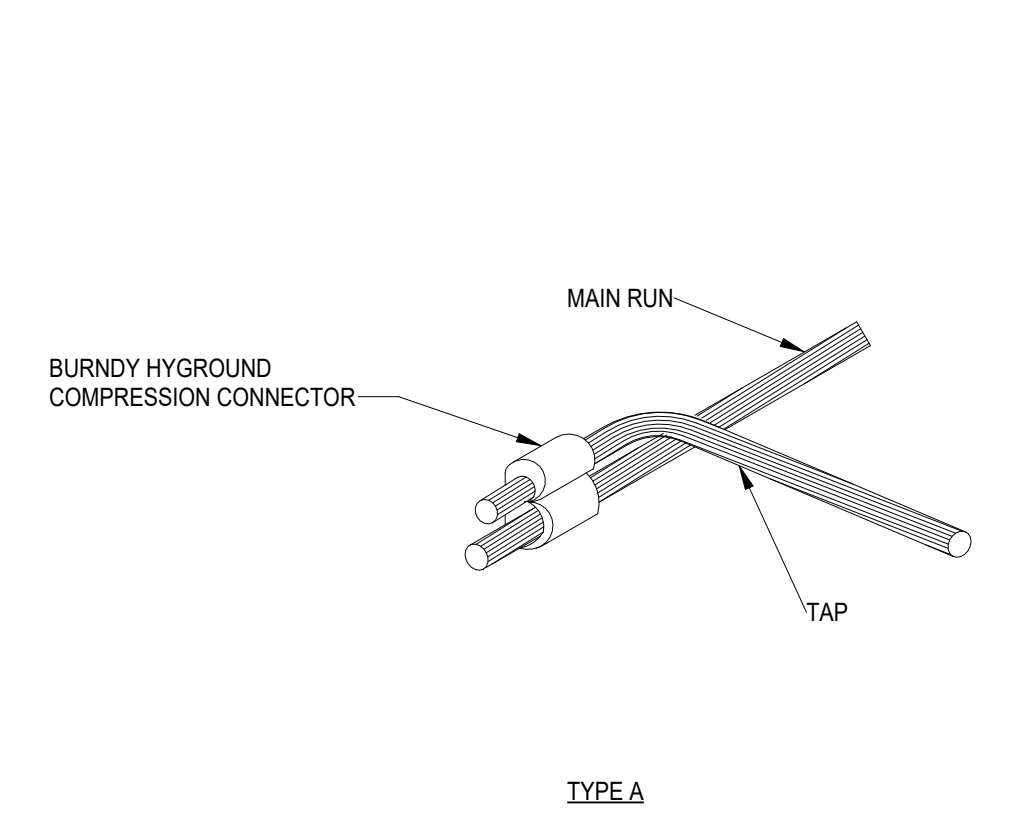
CLIENT information table: Alamo Colleges, DATE 06/14/2024, PROJECT NUMBER 230462. DRAWING HISTORY table with columns No., Description, Date.

ISSUE FOR CONSTRUCTION BUILDING NUMBER 1 ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

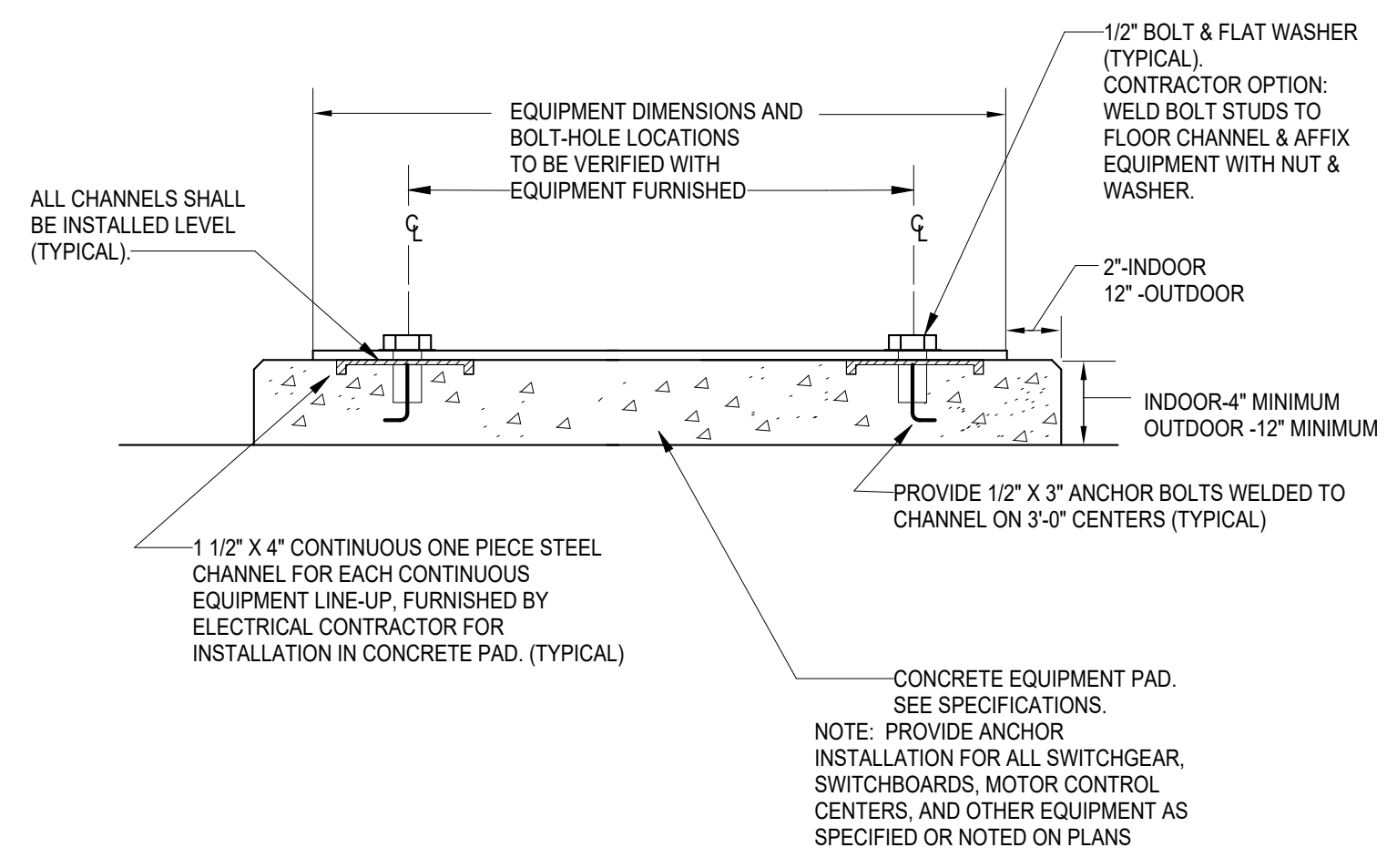
ELECTRICAL DETAILS



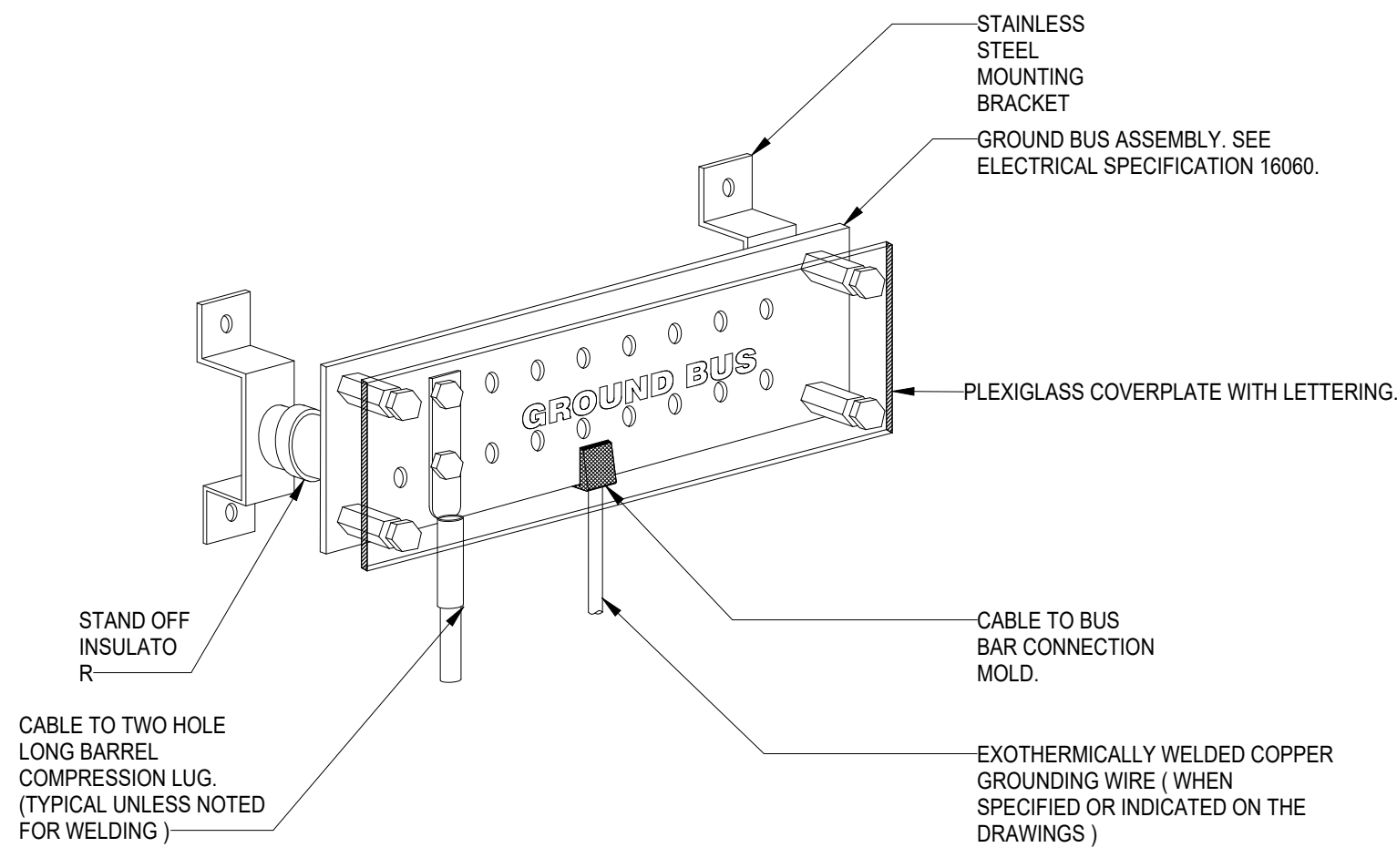
4 | ELECTRIC SERVICE GROUNDING DETAIL NOT TO SCALE



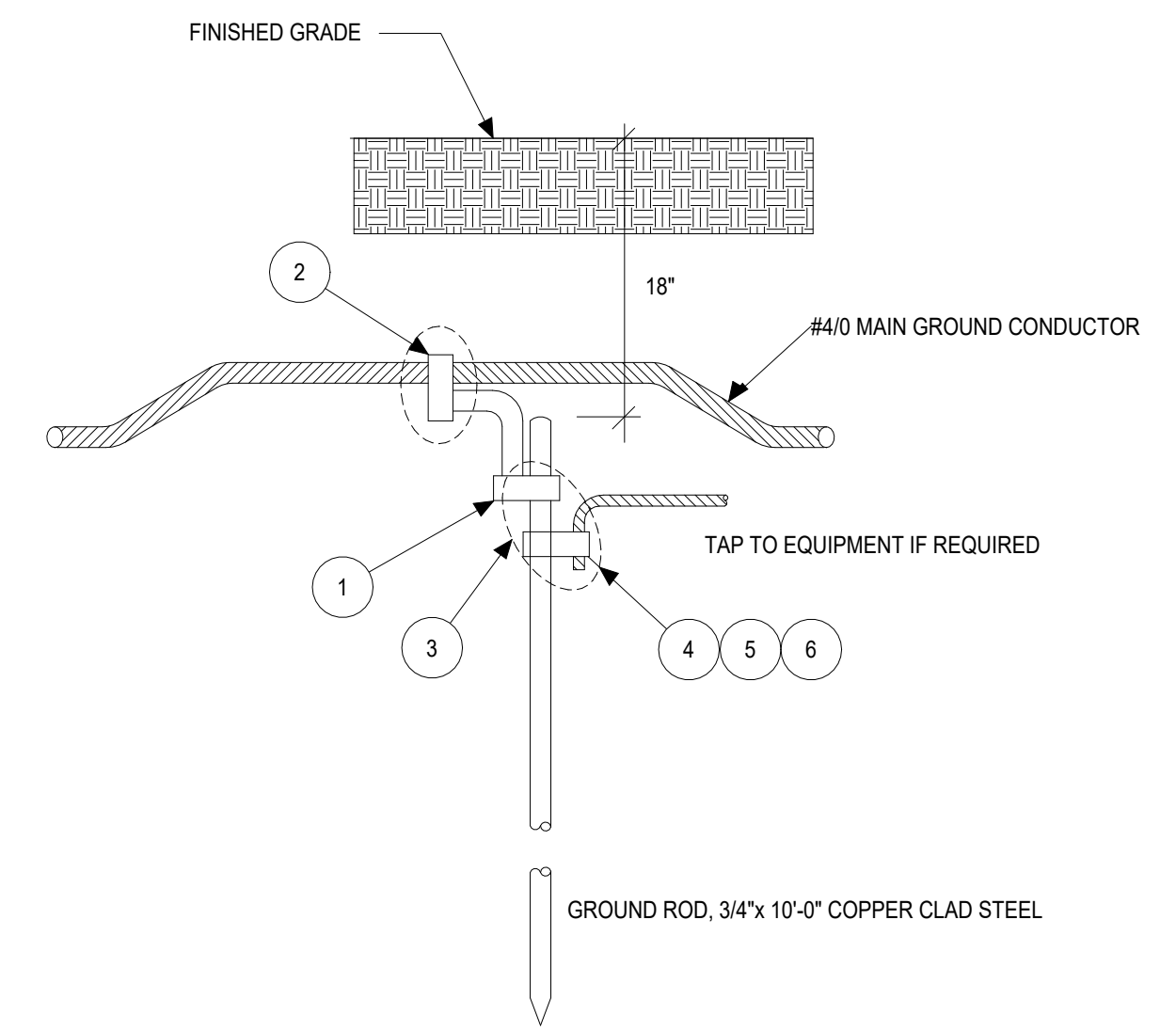
8 | GROUNDING COMPRESSION CONNECTIONS NOT TO SCALE



3 | EQUIPMENT ANCHOR DETAIL NOT TO SCALE



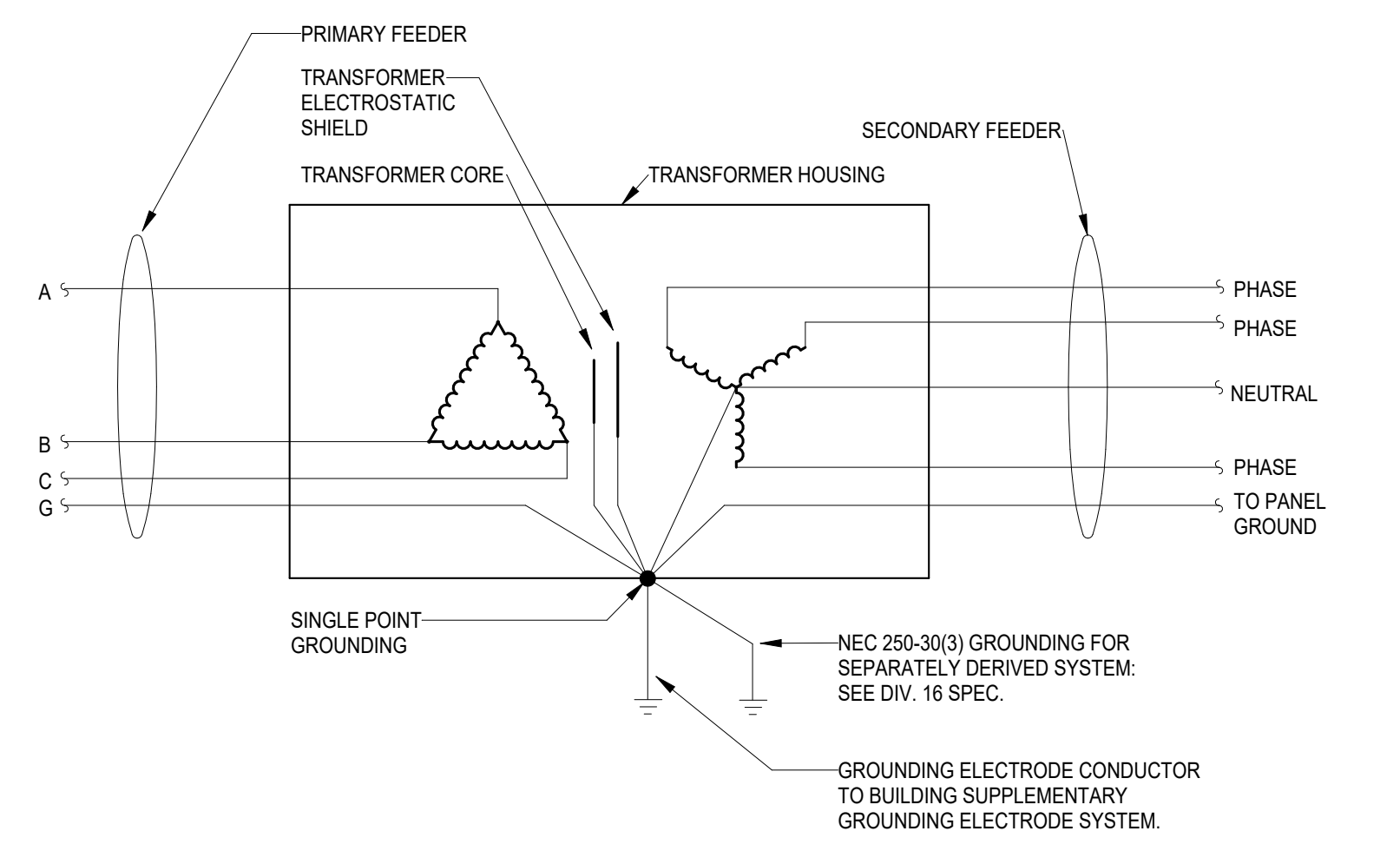
6 | GROUND BUS DETAIL NOT TO SCALE



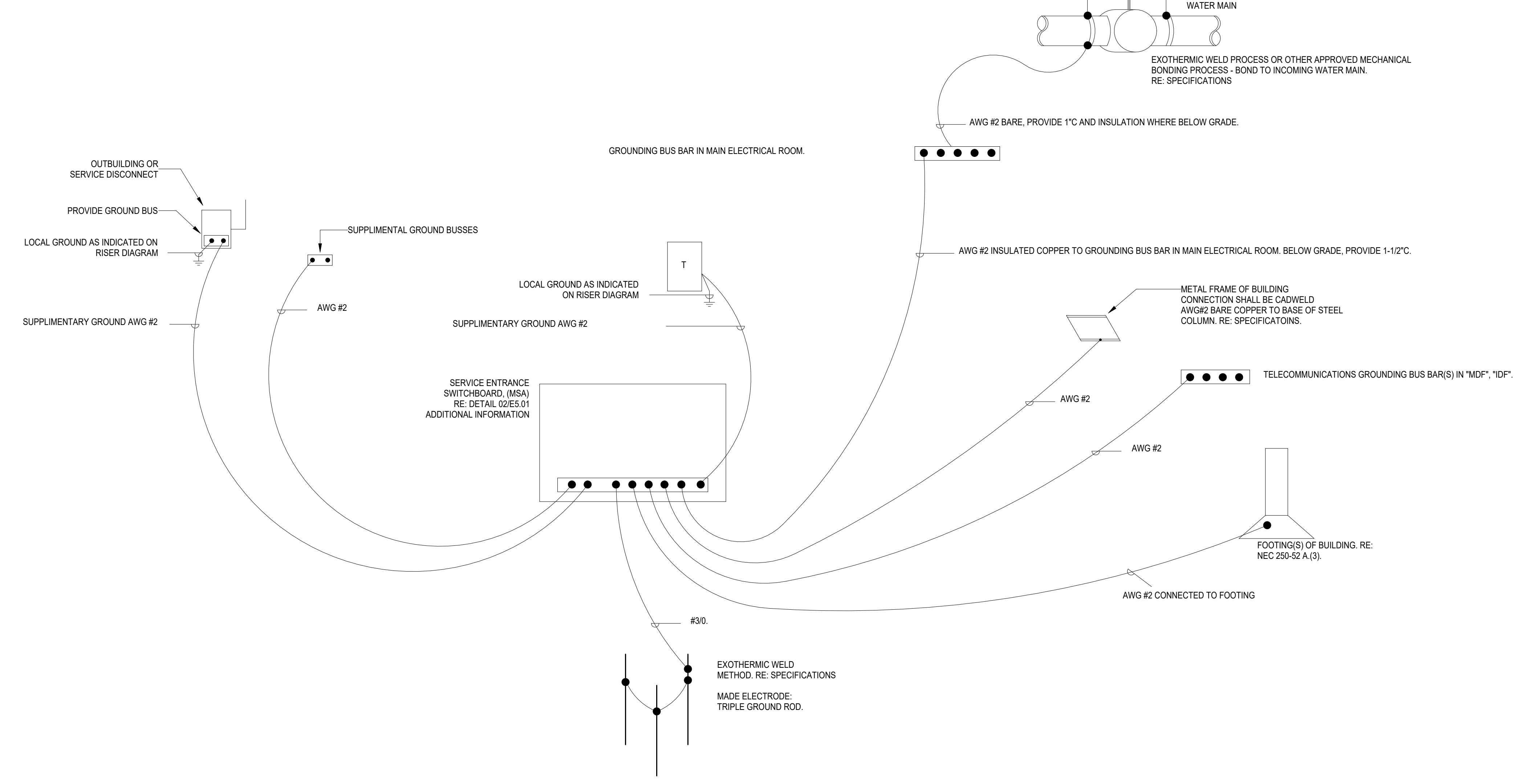
7 | GROUND ROD ASSEMBLY NOT TO SCALE

KEYED NOTES:

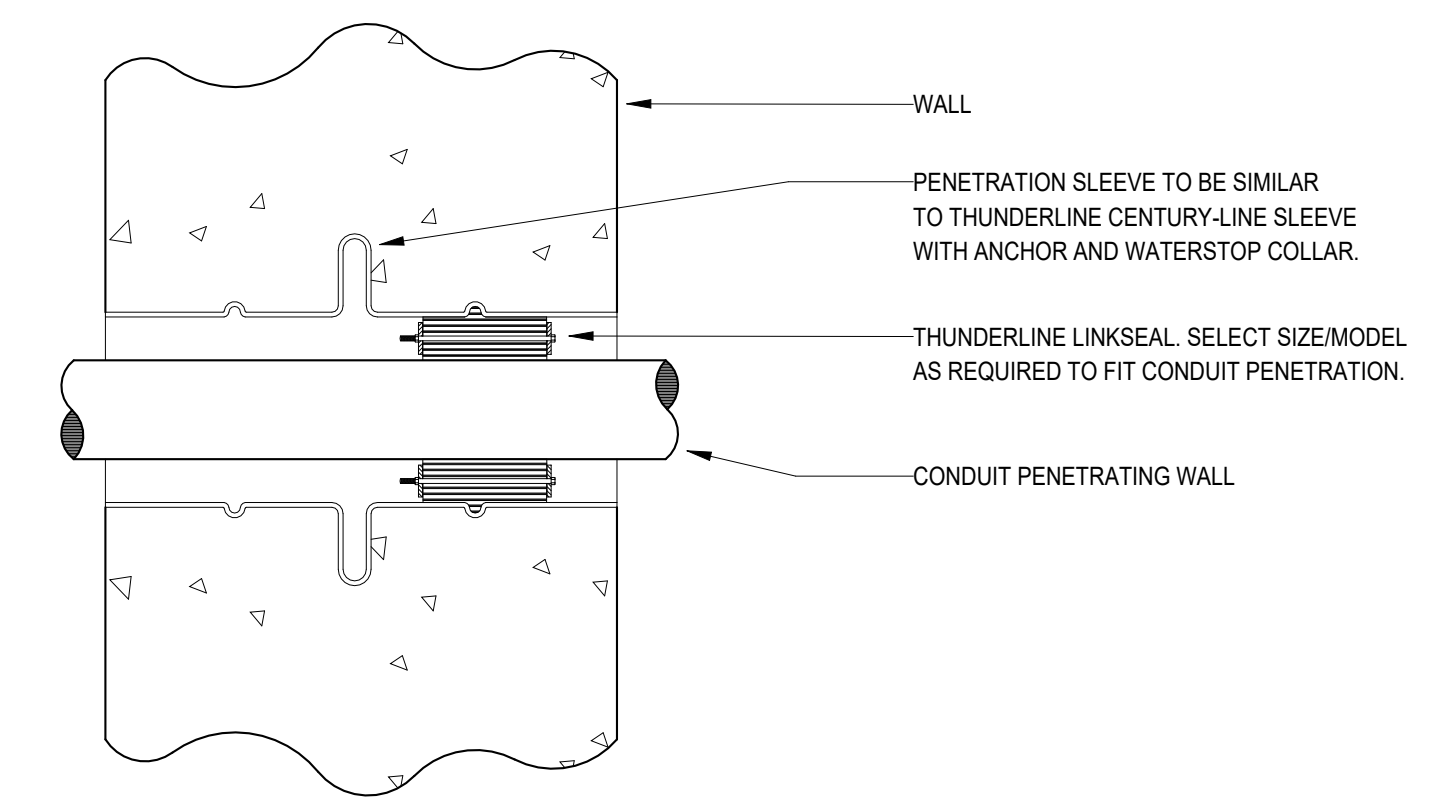
- 1 REQUIRES BURNDY Y750 PRESS WITH U99 FOR INSTALLATION.
- 2 CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4" ROD, BURNDY #YGLR29C34.
- 3 REQUIRES BURNDY Y750 HYPRESS WITH PU988 CRIMP DIE AND UPRECRIMP34 DIE FOR INSTALLATION.
- 4 CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4" ROD, BURNDY #YGH34C29.
- 5 CRIMP CONNECTOR, #4 TO #2 TO 3/4" ROD, BURNDY #YGH34C2.
- 6 CRIMP CONNECTOR, #10 TO 200 KCMIL TO 3/4" ROD, BURNDY #YGH34C26.



2 | DELTA-WYE TRANSFORMER SCHEMATIC NOT TO SCALE



5 | ELECTRICAL GROUNDING REQUIREMENTS NOT TO SCALE



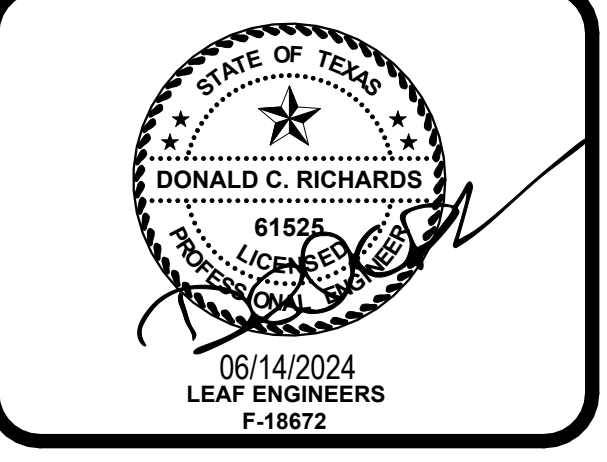
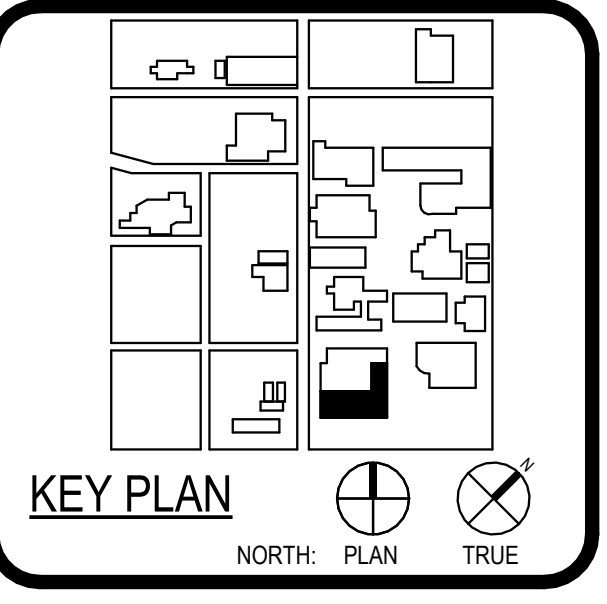
1 | CONDUIT PENETRATION DETAIL - EXTERIOR WALL NOT TO SCALE



ARCHITECT	PBK Architects, Inc.
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	BA ARCHITECTS
210-820-0123 P	210-829-5578 F
LANDSCAPE	LANDSCAPE
MECHANICAL	MECHANICAL
PLUMBING	PLUMBING
STRUCTURAL	STRUCTURAL
TRUCKING	TRUCKING
WATER	WATER
WIND	WIND
WOOD	WOOD
STEEL	STEEL
CONCRETE	CONCRETE
PAINT	PAINT
GLASS	GLASS
MECHANICAL	MECHANICAL
PLUMBING	PLUMBING
STRUCTURAL	STRUCTURAL
TRUCKING	TRUCKING
WATER	WATER
WIND	WIND
WOOD	WOOD
STEEL	STEEL
CONCRETE	CONCRETE
PAINT	PAINT
GLASS	GLASS



WFAC Black Box Addition PKG 1

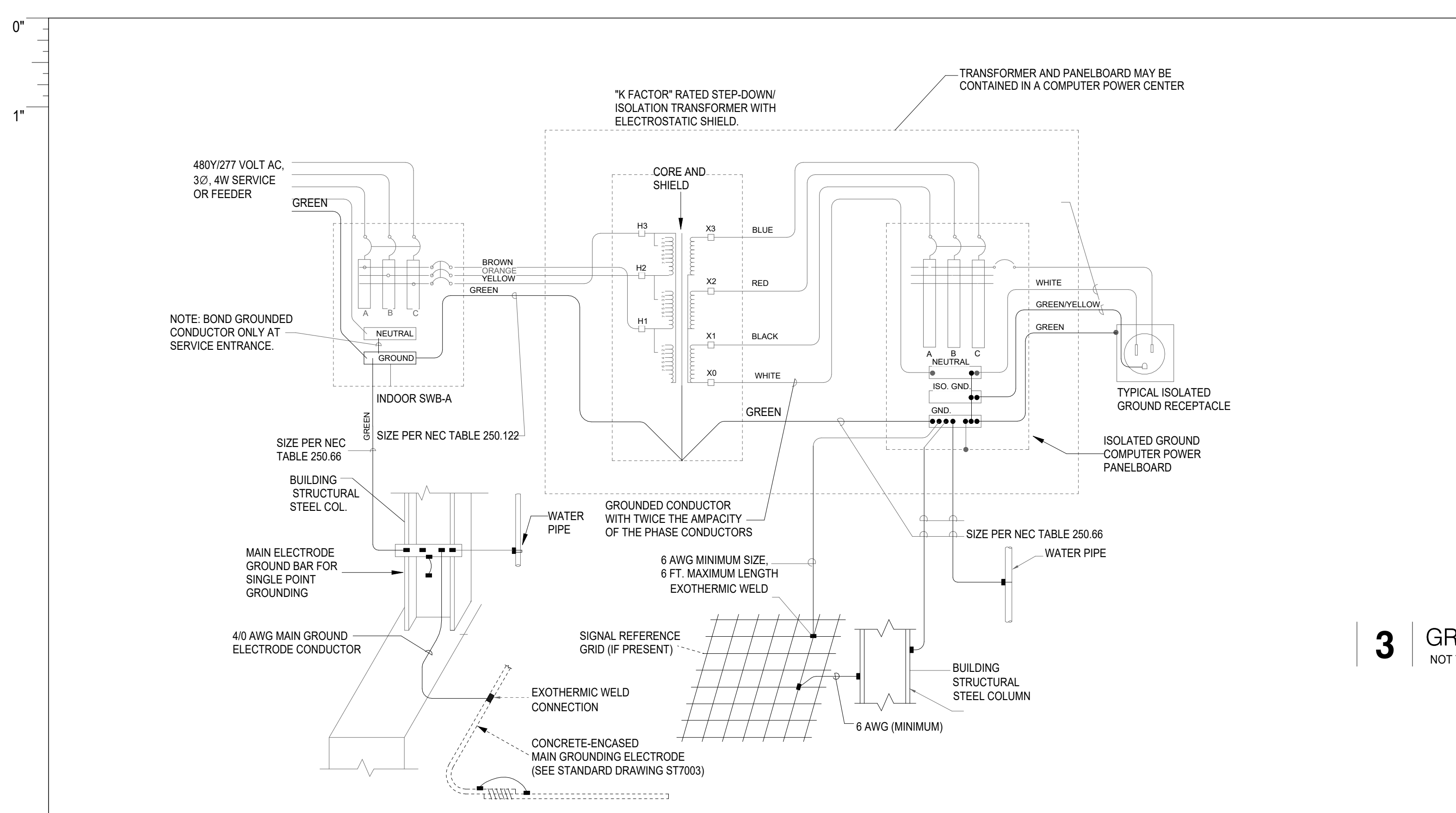


CLIENT	Alamo Colleges	
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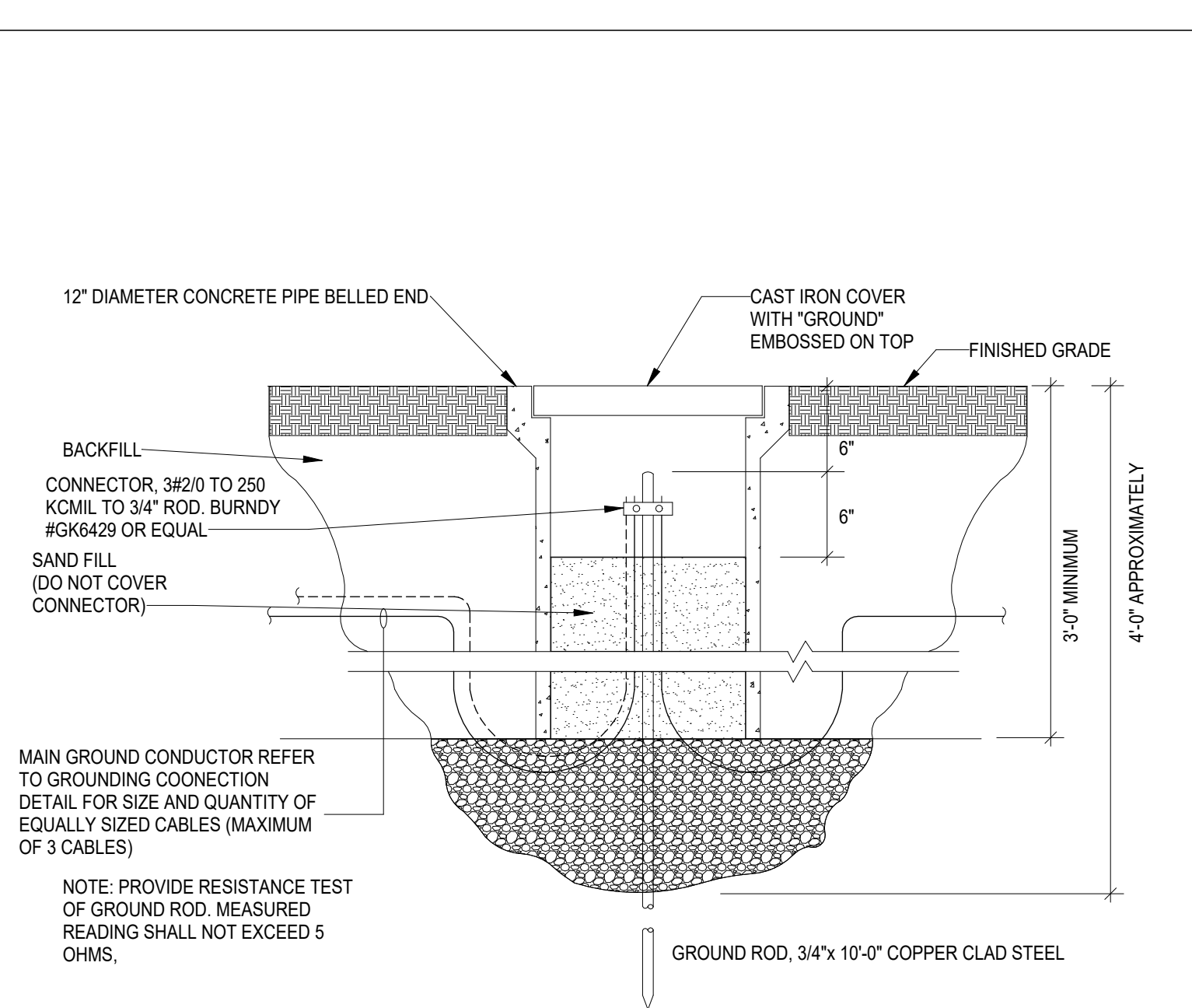
ISSUE FOR CONSTRUCTION

ELECTRICAL DETAILS

E-602



2 ISOLATED GROUND DETAIL
NOT TO SCALE



3 GROUND WELL ASSEMBLY
NOT TO SCALE

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE.
4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.

KEYED NOTES

1. INSTALL GROUND (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDING CONDUCTOR.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 2 AWG UNLESS NOTED OTHERWISE.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
5. INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
6. INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

 BARE COPPER CABLE NOT SMALLER THAN THE GROUNDING ELECTRODE CONDUCTOR REQUIRED BY THE NEC AND NOT SMALLER THAN 2 AWG, REFER SPEC 26 05 26.

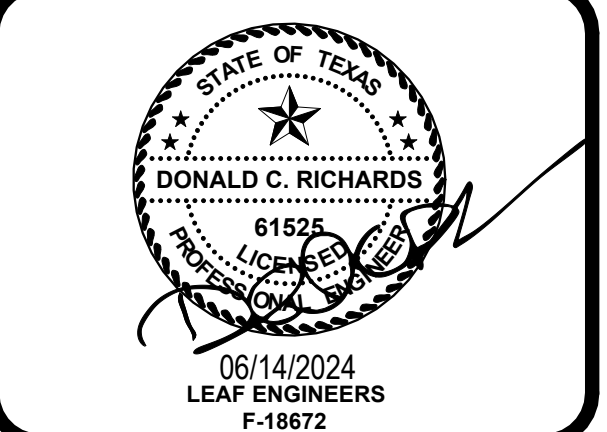
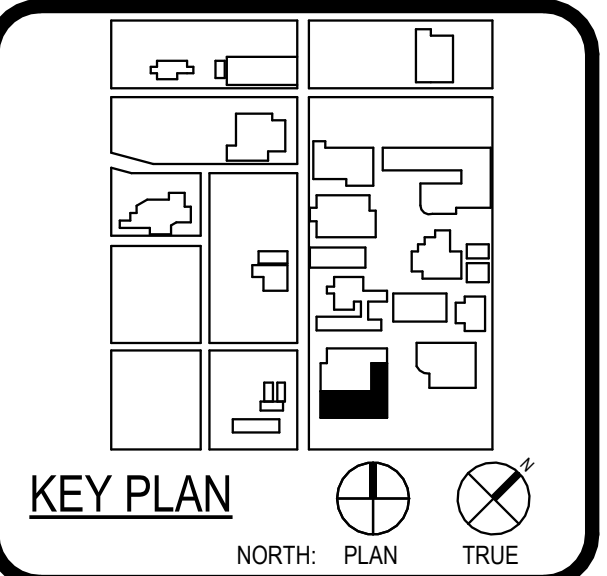
 BARE OR GALVANIZED REBARS THAT ARE MADE ELECTRICALLY CONTINUOUS USING COPPER JUMPERS NOT SMALLER THAN THE NEC REQUIRED GROUNDING ELECTRODE CONDUCTOR AND NOT SMALLER THAN 4 AWG. USE REINFORCING BARS NOT SMALLER THAN THE FOLLOWING BASED ON THE TOTAL LENGTH OF THE INTERCONNECTED AND PARALLELED REBARS:

TOTAL LENGTH	MINIMUM REBAR SIZE
112 FT	1 3/8" (#1 BAR)
150 FT	1" (#6 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#6 BAR)
268 FT	1/2" (#4 BAR)

7. BOND PERIMETER STRUCTURAL STEEL COLUMNS TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE CHANNEL CONNECTION TO ATTACH GROUNDING ELECTRODE CONDUCTOR TO BASE OF STEEL COLUMN. REFER SPEC 26 05 26.
8. INSTALL A 'MAIN GROUND ELECTRODE GROUND BAR' FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 3Ø AWG COPPER (IF LIGHTNING PROTECTION SYSTEM IS SPECIFIED IN PROJECT, RE: SECTION 26 41 00).
10. IF LIGHTNING PROTECTION SYSTEM IS SPECIFIED IN PROJECT (26 41 00), BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4Ø AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.
11. USE THE 'MAIN GROUNDING ELECTRODE GROUND BAR' INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE 'MAIN GROUNDING ELECTRODE GROUND BAR'.
12. IF THE BUILDING STRUCTURE IS NOT STRUCTURAL STEEL, INSTALL 'MAIN GROUNDING ELECTRODE GROUND BAR EXTENSIONS' AT AN ACCESSIBLE AND VISIBLE LOCATION ADJACENT TO SEPARATELY DERIVED SYSTEMS THAT ARE MORE THAN 50 FEET FROM THE MAIN GROUNDING ELECTRODE GROUND BAR.
13. INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE 'MAIN GROUNDING ELECTRODE GROUND BAR' USING 600V INSULATED 4Ø AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
14. INSTALL GROUND (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
15. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
16. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD, REFER SPEC 26 05 26.
17. BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
18. INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.
19. BOND TO INCOMING WATER MAIN USING EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 26 05 26.
20. TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS, REFER SPEC 26 05 26, UNLESS NOTED OTHERWISE.

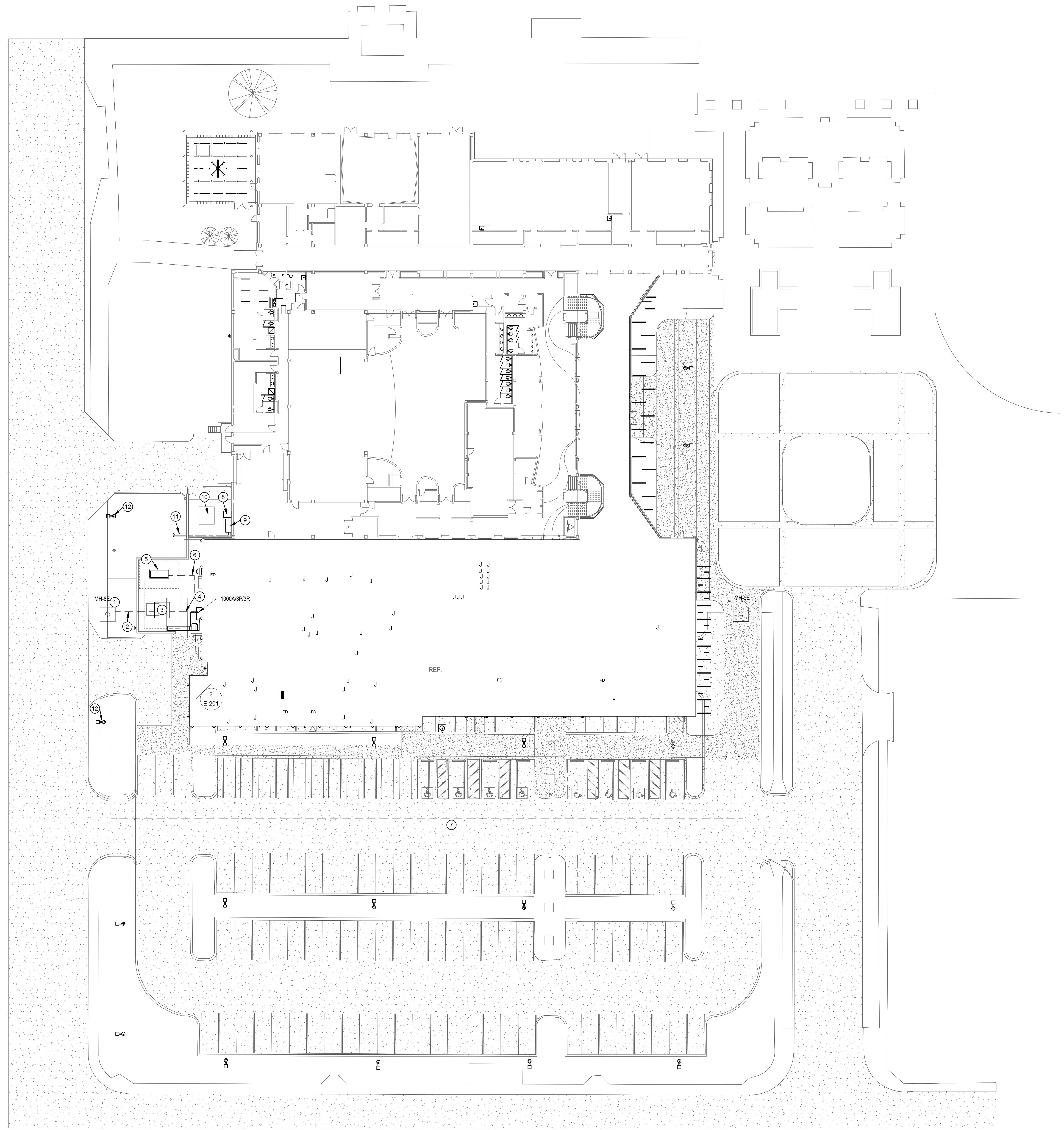


1 GROUNDING CONNECTION DETAIL
SCALE: NOT TO SCALE



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

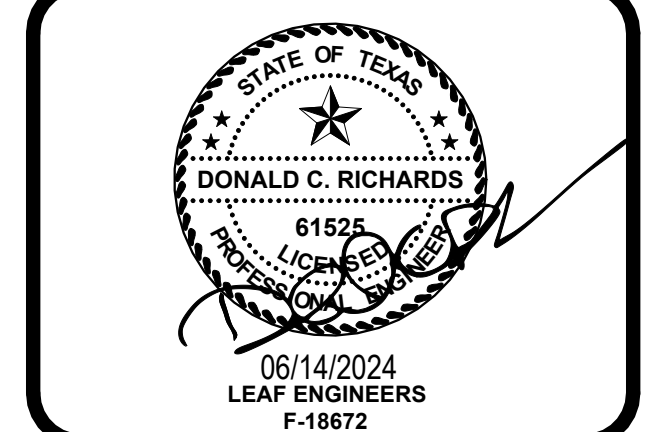
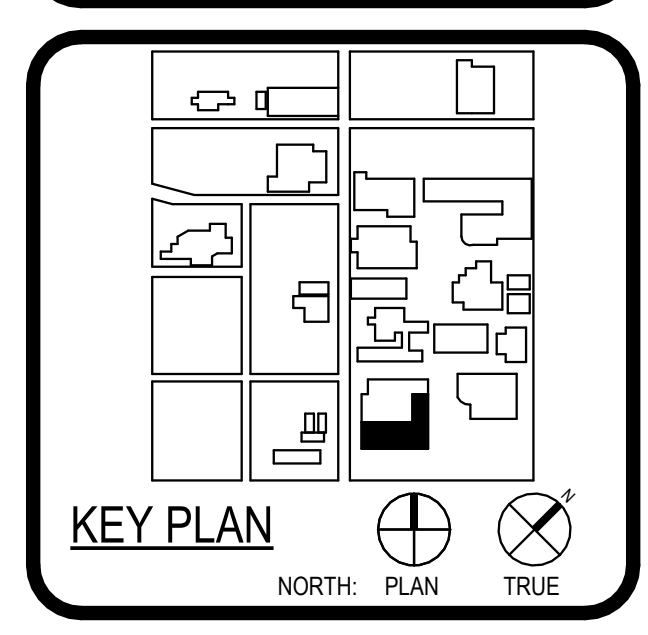
- 1 EXISTING ELECTRICAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- 3 NEW 480277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (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 480277V, 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 214-742-1000
LANDSCAPE ARCHITECT	LANDSCAPE 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000



WFAC Black Box Addition PKG 1
 1801 Main Luther King Dr.,
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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... C. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH THE INSTALLATION...

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 AND HAND TAMPING IN FOUR (4) INCHES COMPACTED LAYERS TO TWELVE (12) INCHES MINIMUM COVER OVER TOP OF JACKET... B. EVENLY AND CONTINUOUSLY BACKFILL REMAINING TRENCH DEPTH IN UNIFORM LAYERS WITH BACKFILL MATERIAL...

PLUMBING ABBREVIATION SCHEDULE

Table with 4 columns: Symbol, Description, Abbreviation, and Full Name. Includes items like (A) ITEM NOTED TO BE ABANDONED, (D) ITEM NOTED TO BE DEMOLISHED, (E) EXISTING ITEM, (N) NEW ITEM, (R) ITEM NOTED TO BE RELOCATED, etc.

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

PLUMBING SYMBOLS LEGEND

Table with 4 columns: Drawings, Details, ABV., and Description. Includes symbols for AV ACID VENT, AW ACID WASTE, CA COMPRESSED AIR, CW COLD WATER, (D) DEMOLISHED PIPING OR EQUIPMENT, D CONDENSATE, DSP DRY SPRINKLER, (E) EXISTING PIPING OR EQUIPMENT, F FIRE, G NATURAL GAS, GW GREASE WASTE, HW HOT WATER, HWR HOT WATER RETURN, OD OVERFLOW DRAIN, SD STORM DRAIN, SP SPRINKLER, SS SANITARY SEWER, V VENT, etc.

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

PLUMBING PIPE MATERIAL SCHEDULE

Table with 3 columns: Piping System, Below Grade, and Above Grade. Lists materials for Storm Water, Sanitary Waste, Domestic Water, Natural Gas, Fire Protection, and Compressed Air.

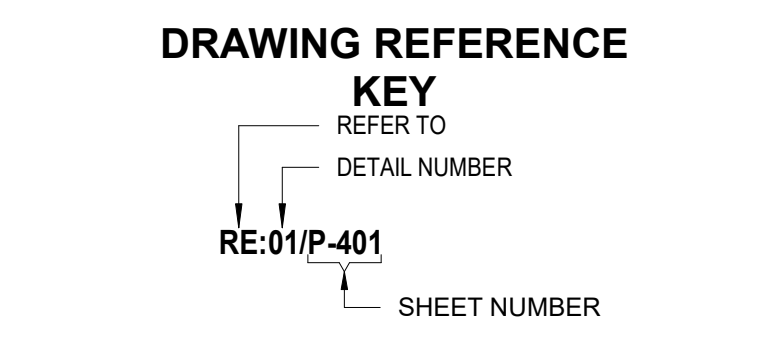
WATER HAMMER ARRESTER SCHEDULE

Table with 3 columns: Pipe Size, Cross Fixture Units, and PDI STD. Lists sizes from 1/2" to 2" and corresponding standards.

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. AIR CHAMBERS OR SHOCK ARRESTORS SHALL BE SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS...

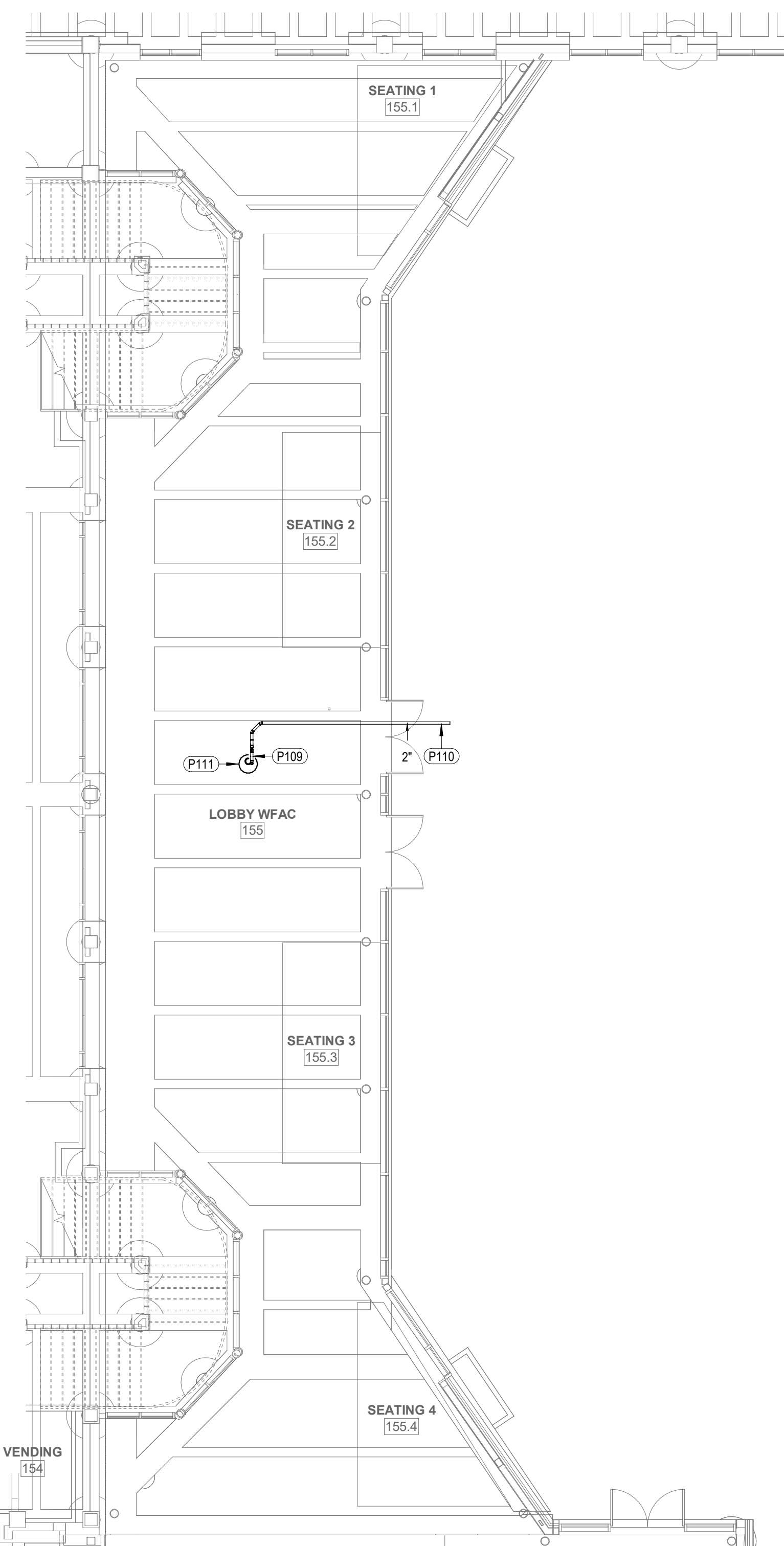
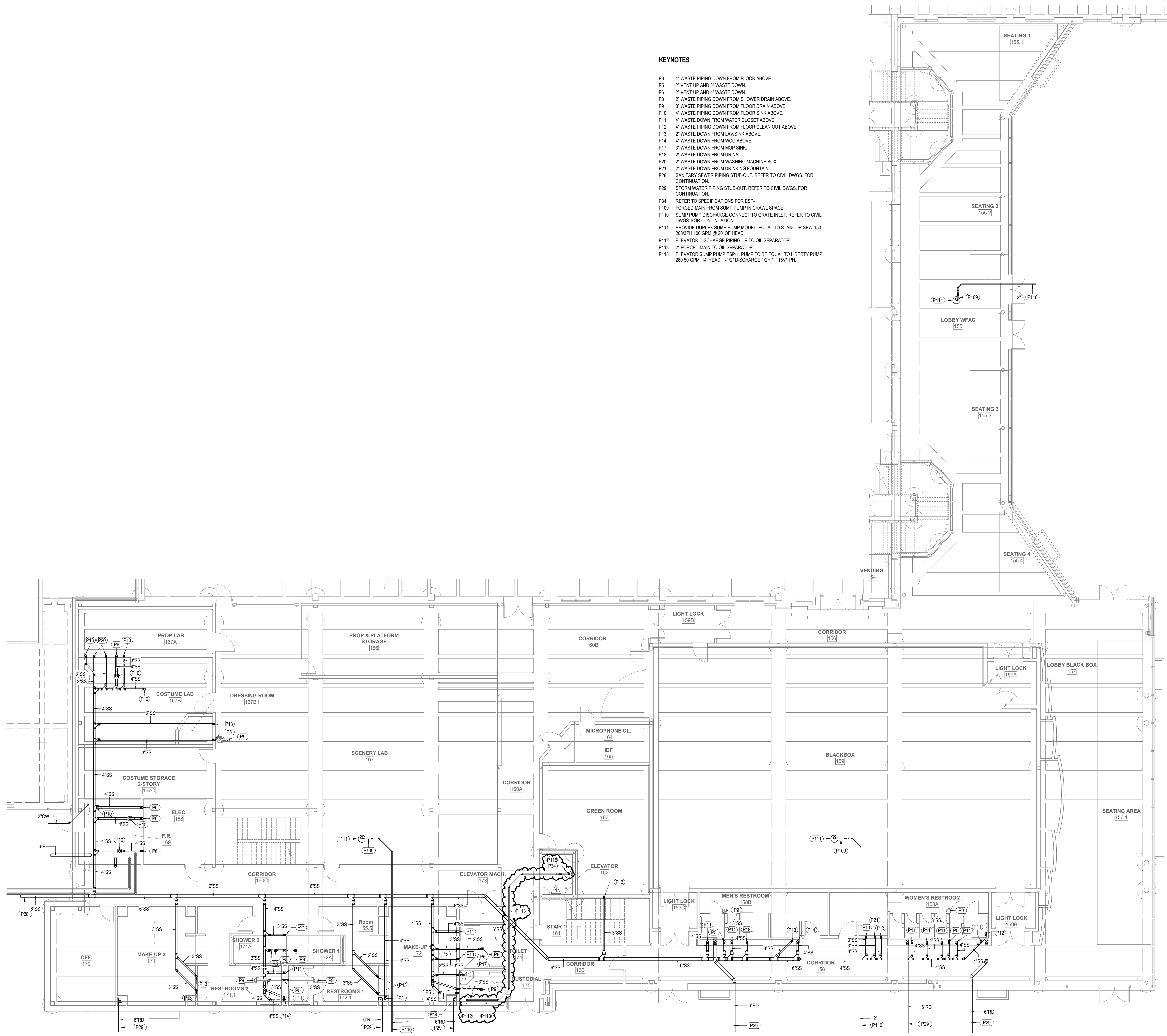
SLOPE OF HORIZONTAL DRAINAGE PIPE

Table with 2 columns: Pipe Size and Minimum Slope. Lists slopes for pipe sizes from 2-1/2" or less to 8" or larger.



KEYNOTES

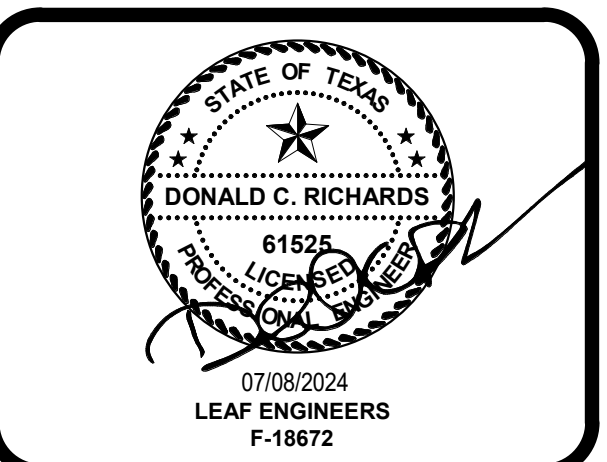
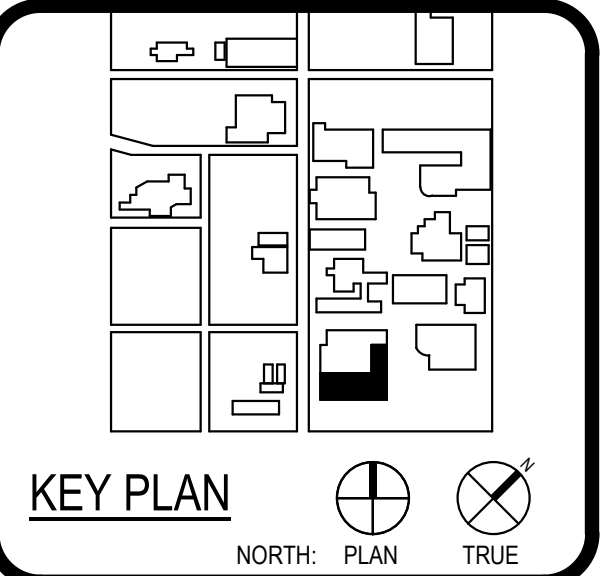
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET 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
 TX Firm BR 1659



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 1801 Main, Luther King Dr.,
 San Antonio, TX 78203
 90%CD - IFR

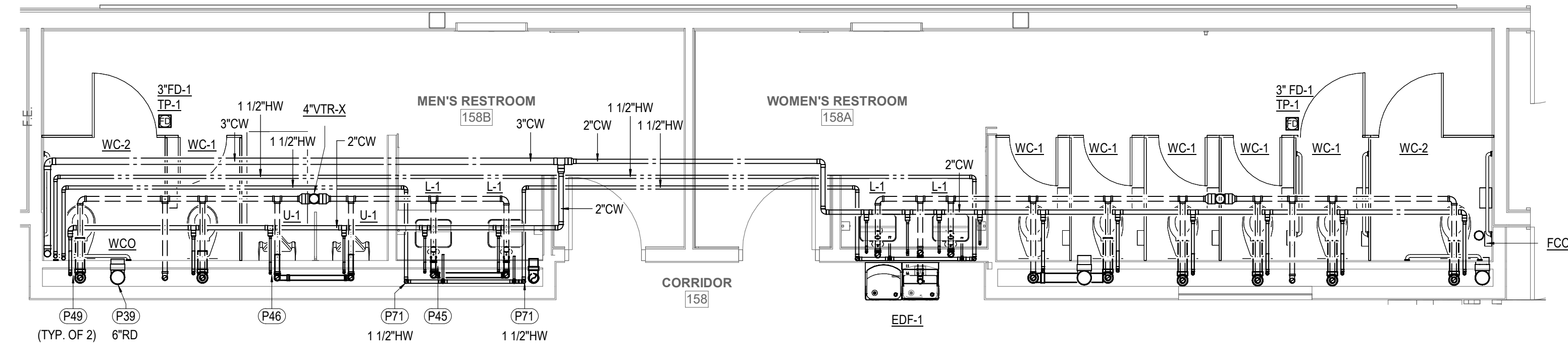


No.	Description	Date
1	CITY COMMENTS	06/05/2024
2	CITY COMMENTS	06/12/2024
3	CITY COMMENTS	06/24/2024
4	CITY COMMENTS	07/08/2024

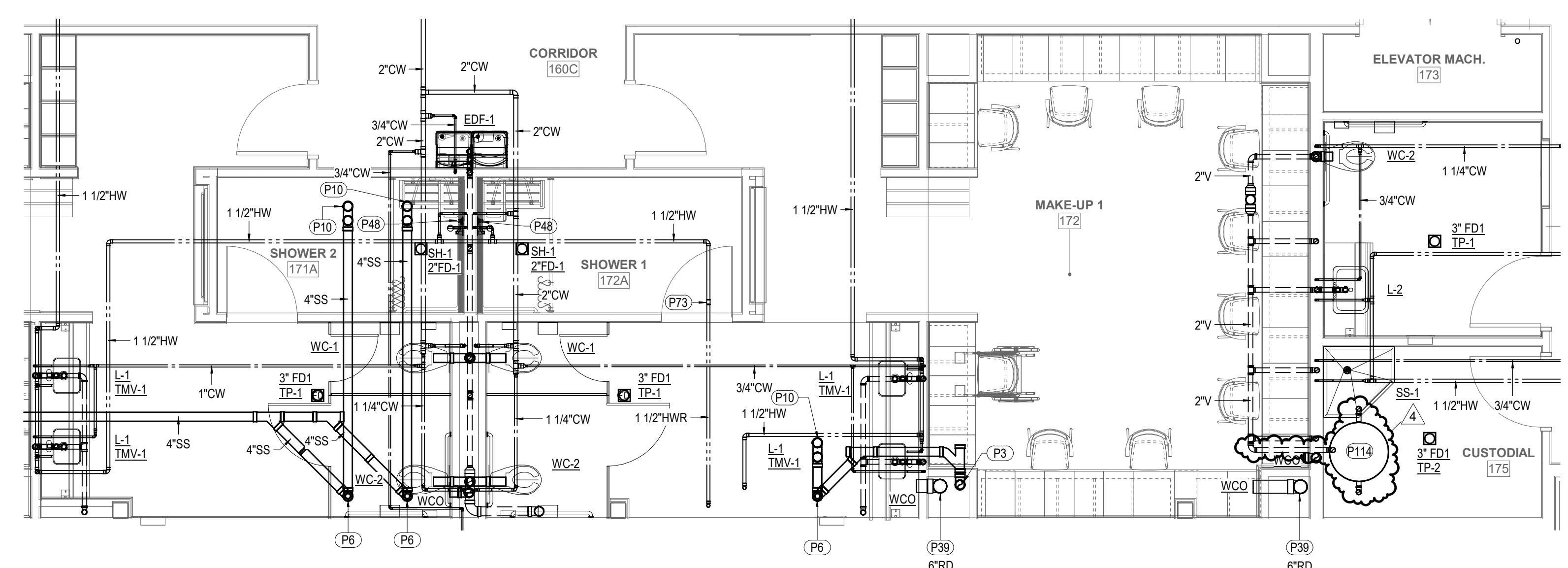
90%CD - IFR
 BUILDING NUMBER 1

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.

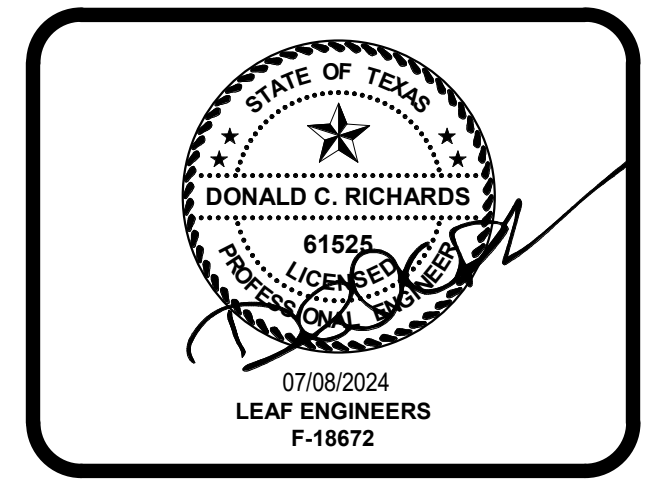
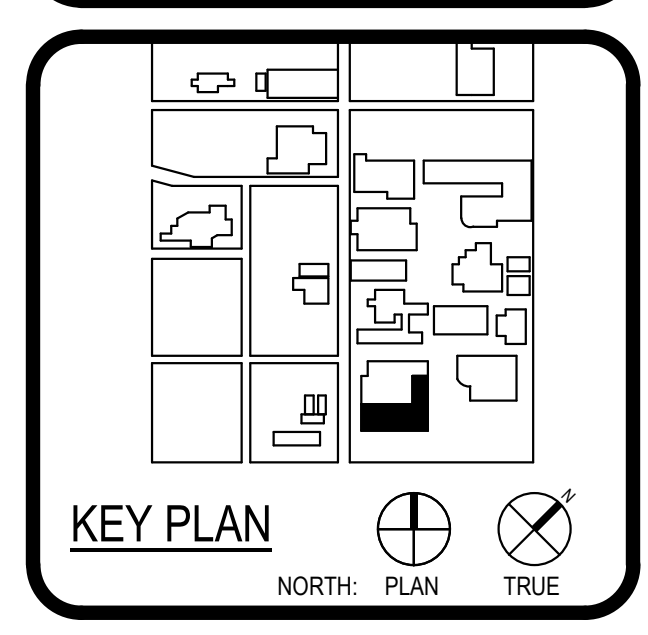
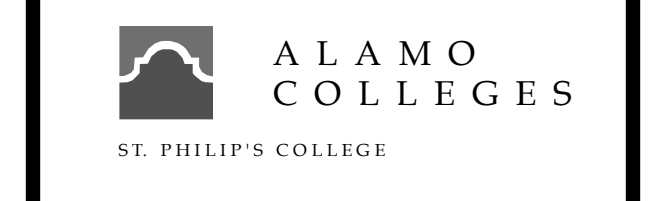


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P TX Firm SR 1659
ASSOCIATE ARCHITECT	KEVIN ARCHITECTS 1710 SO. IH 35
DESIGNER	KEVIN ARCHITECTS 1710 SO. IH 35
ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
MECHANICAL ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
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 PROFESSIONALS	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203
PLUMBING PROFESSIONALS	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203



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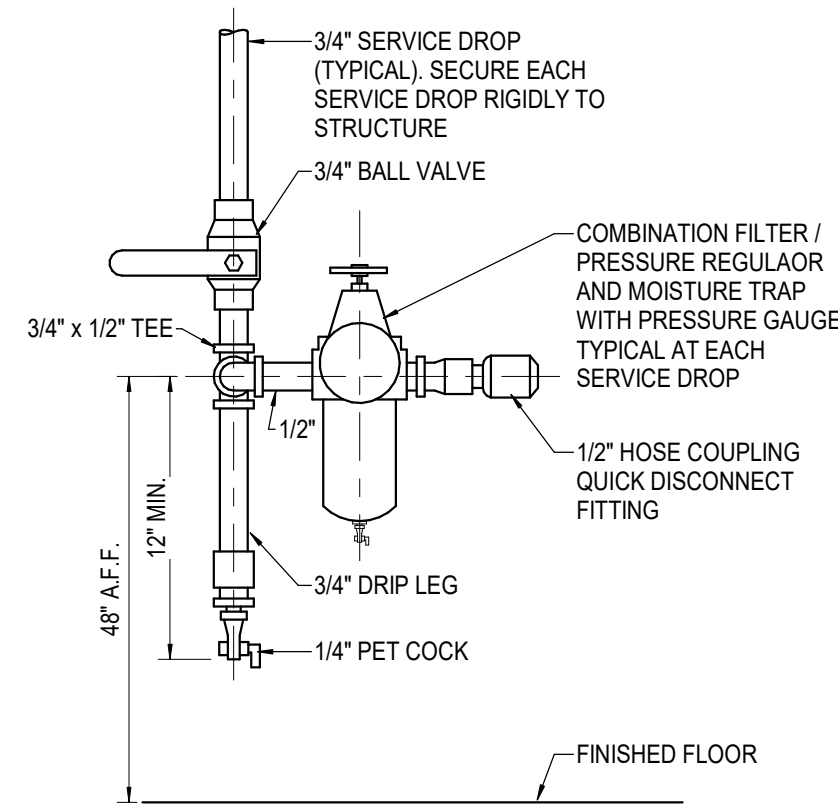
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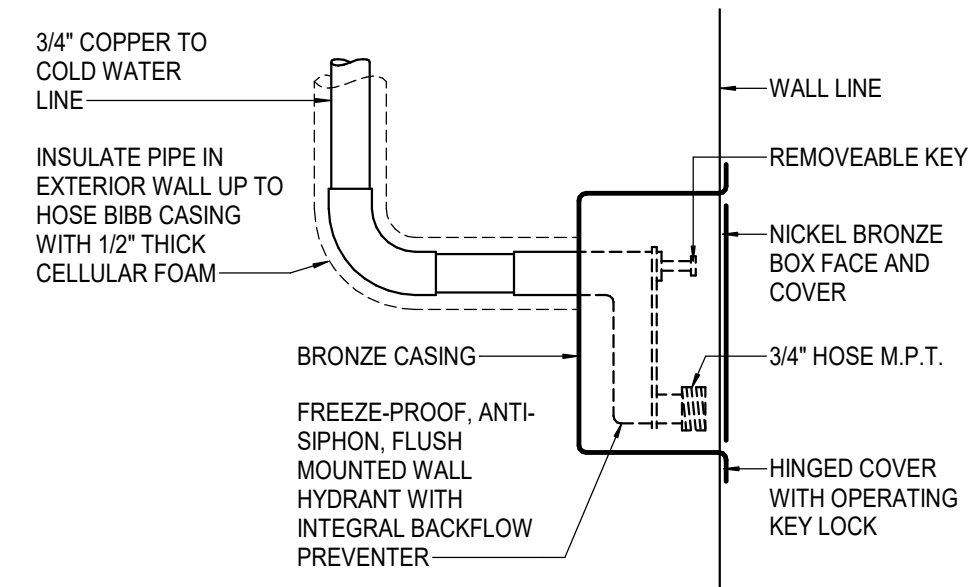
CLIENT		Alamo Colleges
DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
4	CITY COMMENTS	07/08/2024
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BUILDING NUMBER	1	

PLUMBING ENLARGED PLAN

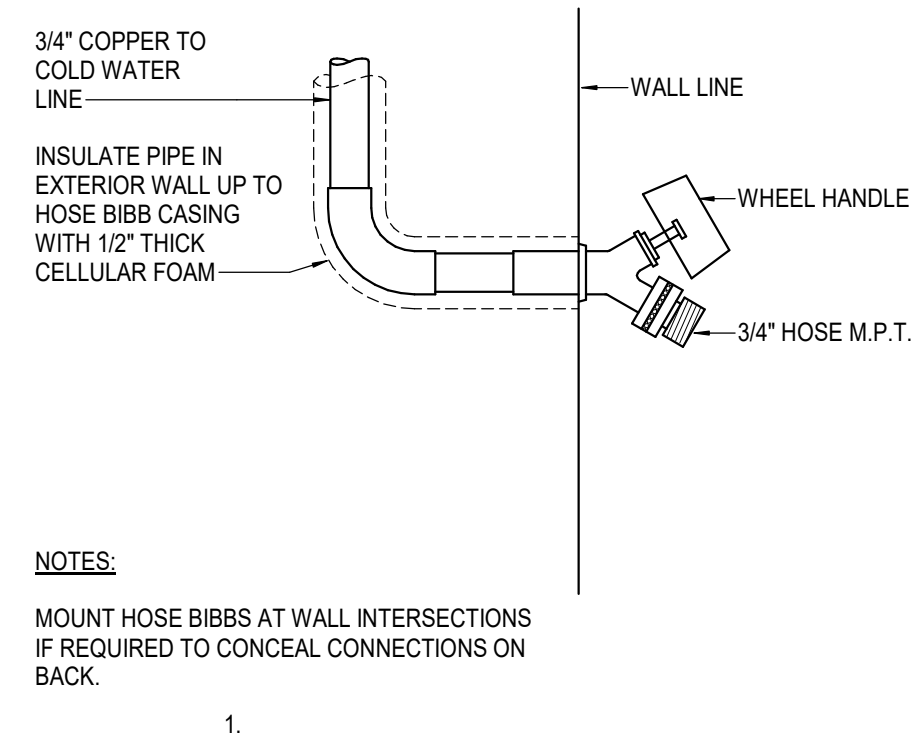
P-401



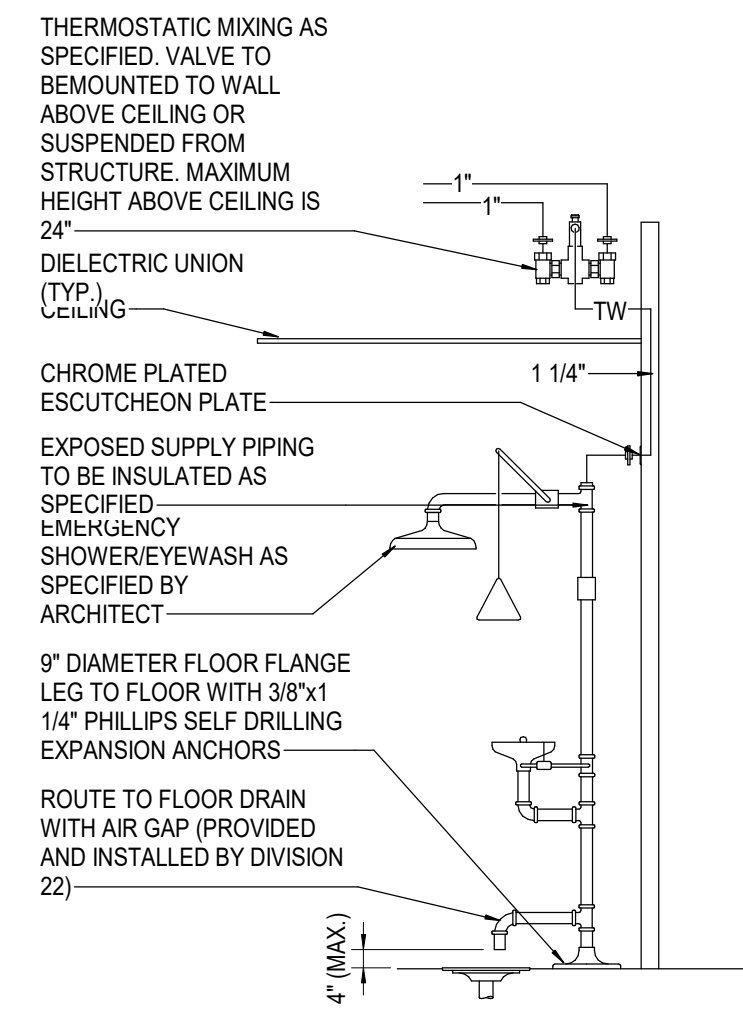
10 COMPRESSED AIR OUTLET DETAIL
SCALE: NOT TO SCALE



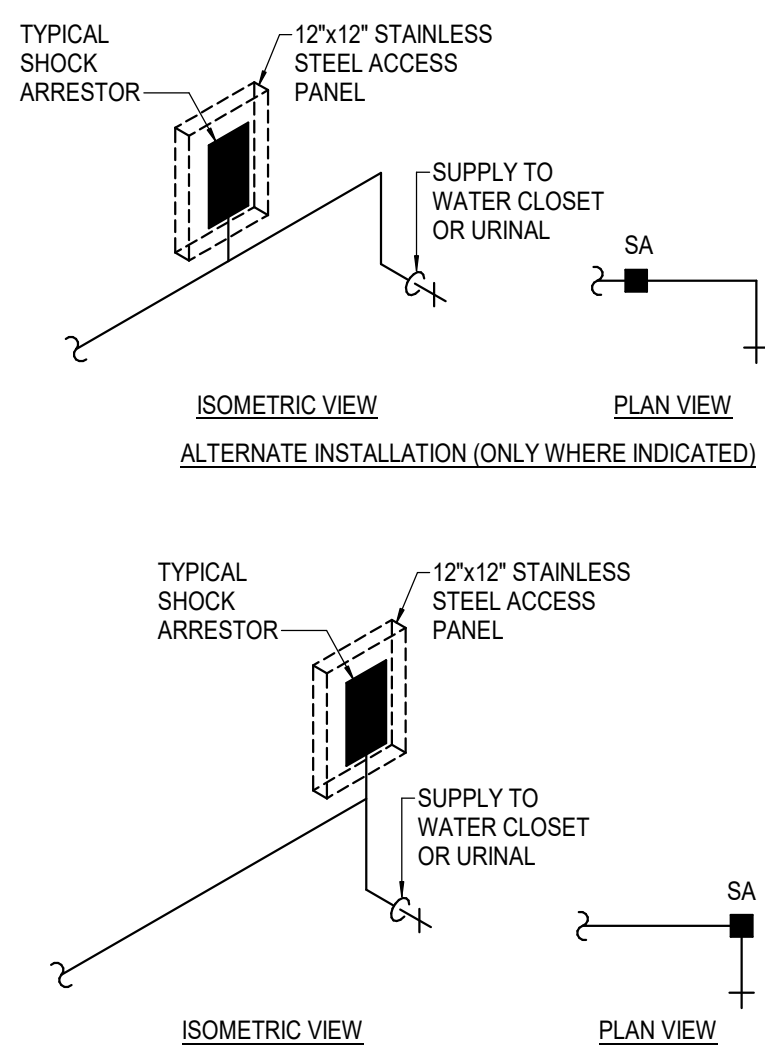
11 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



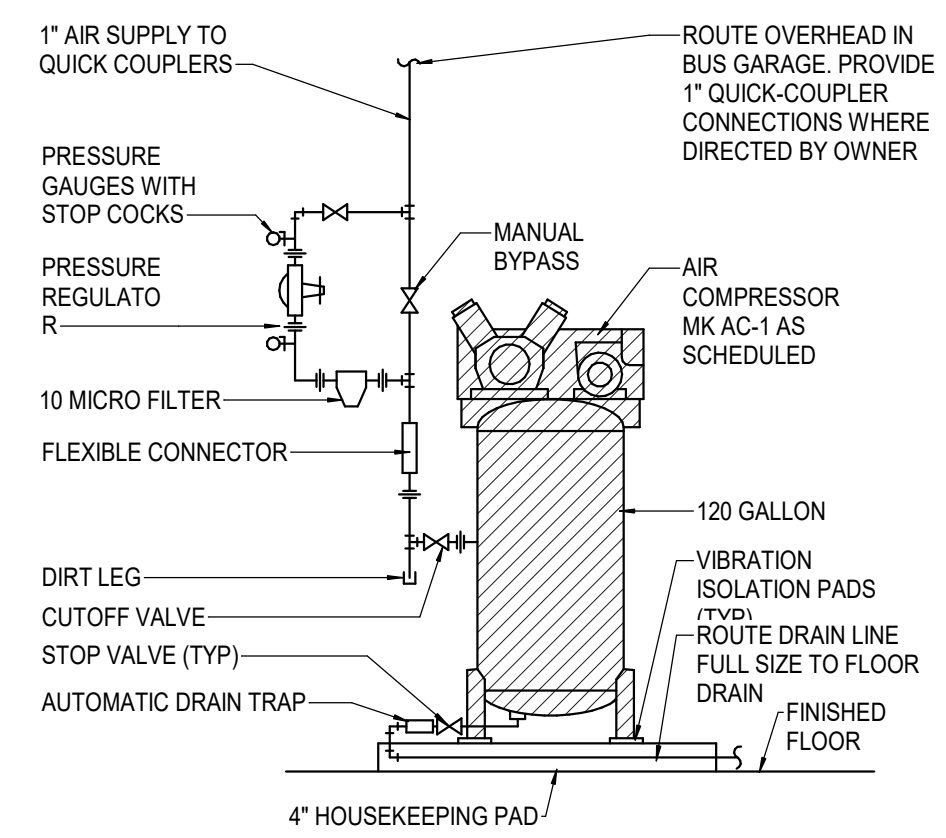
12 WALL HYDRANT DETAIL
SCALE: NOT TO SCALE



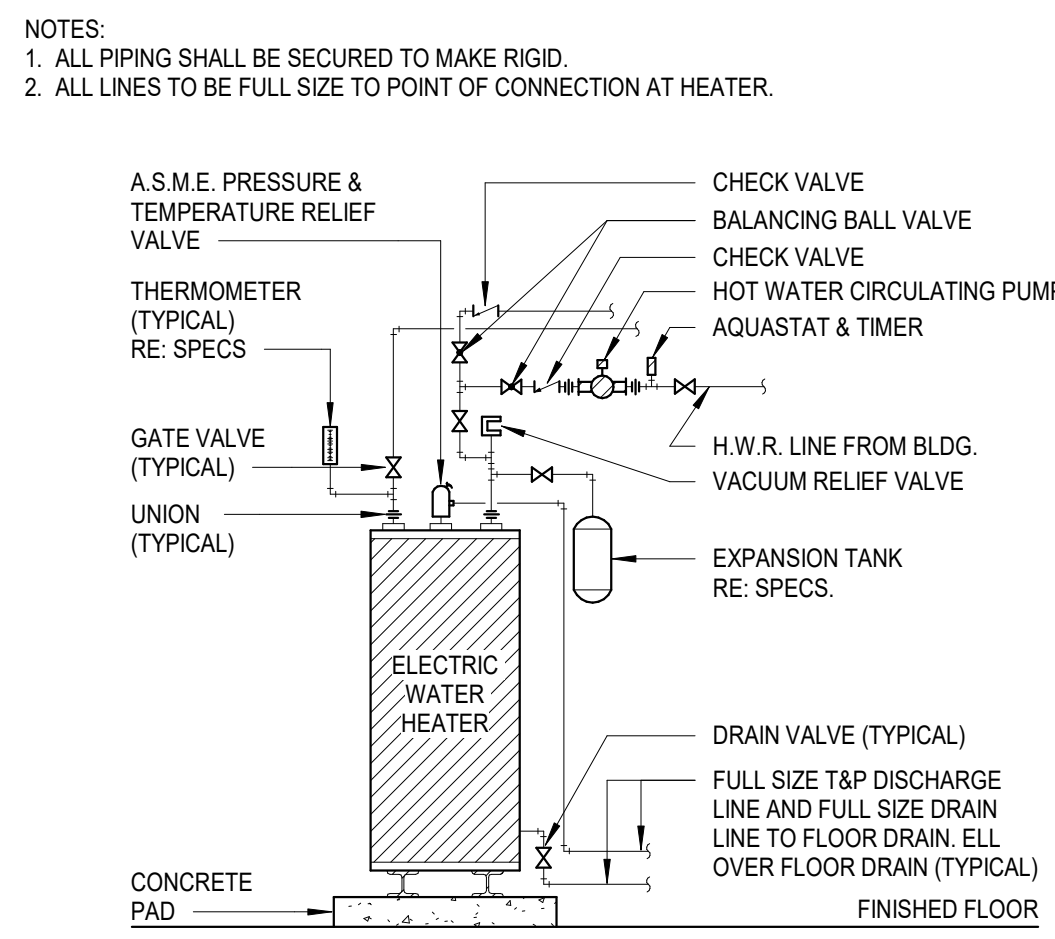
7 EMERGENCY SHOWER/EYEWASH DETAIL
SCALE: NOT TO SCALE



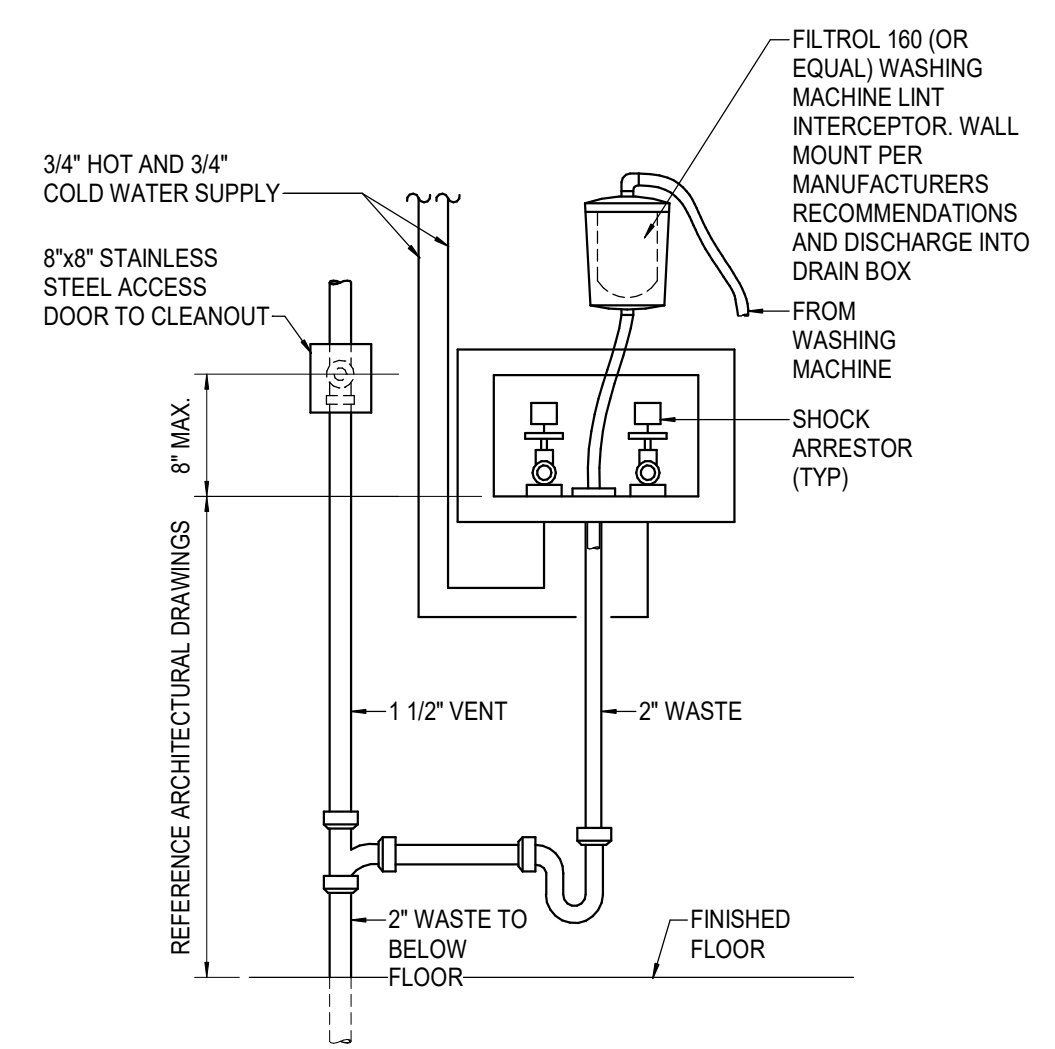
8 SHOCK ARRESTOR DETAIL
SCALE: NOT TO SCALE



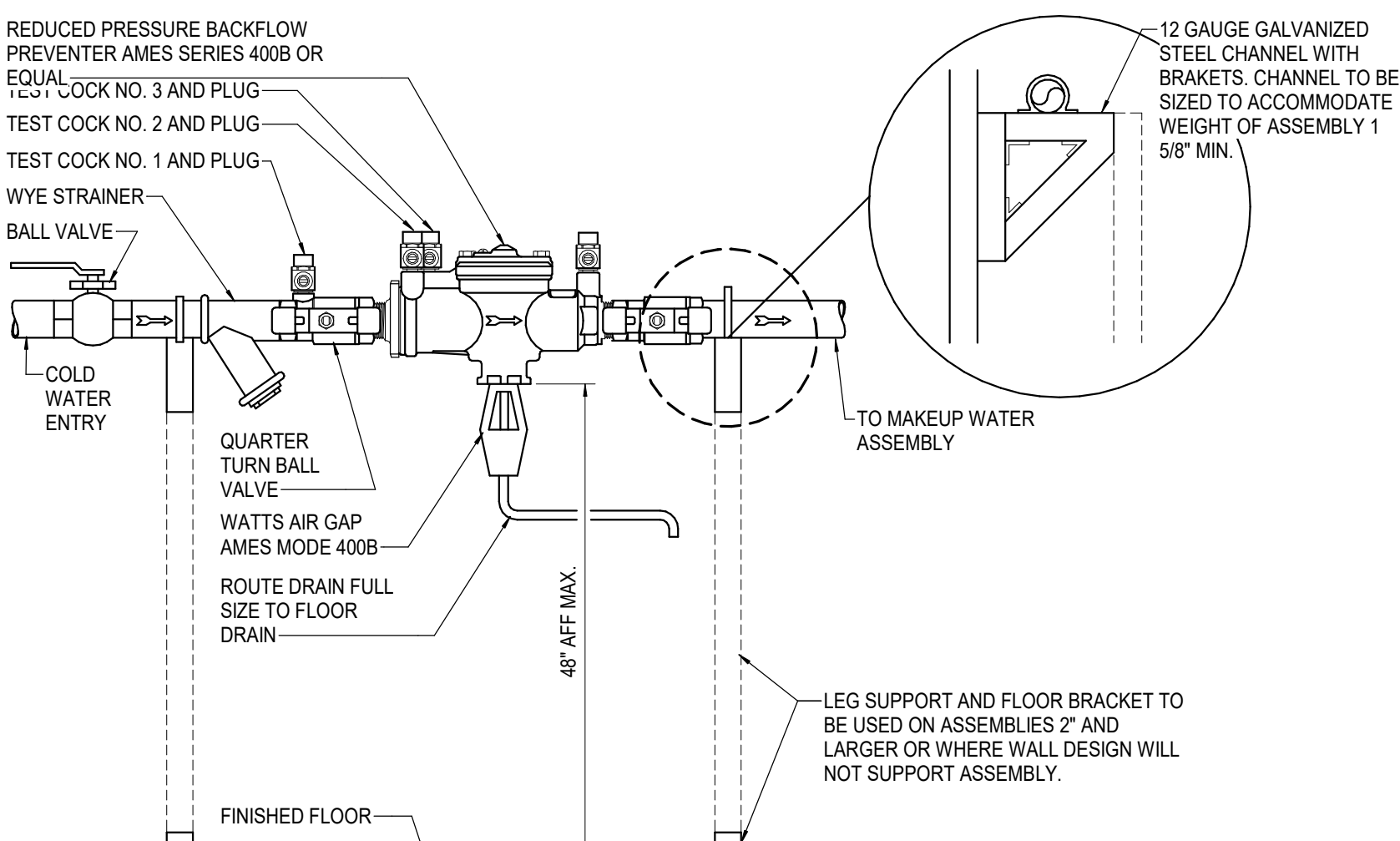
9 AIR COMPRESSOR PIPING DETAIL
SCALE: NOT TO SCALE



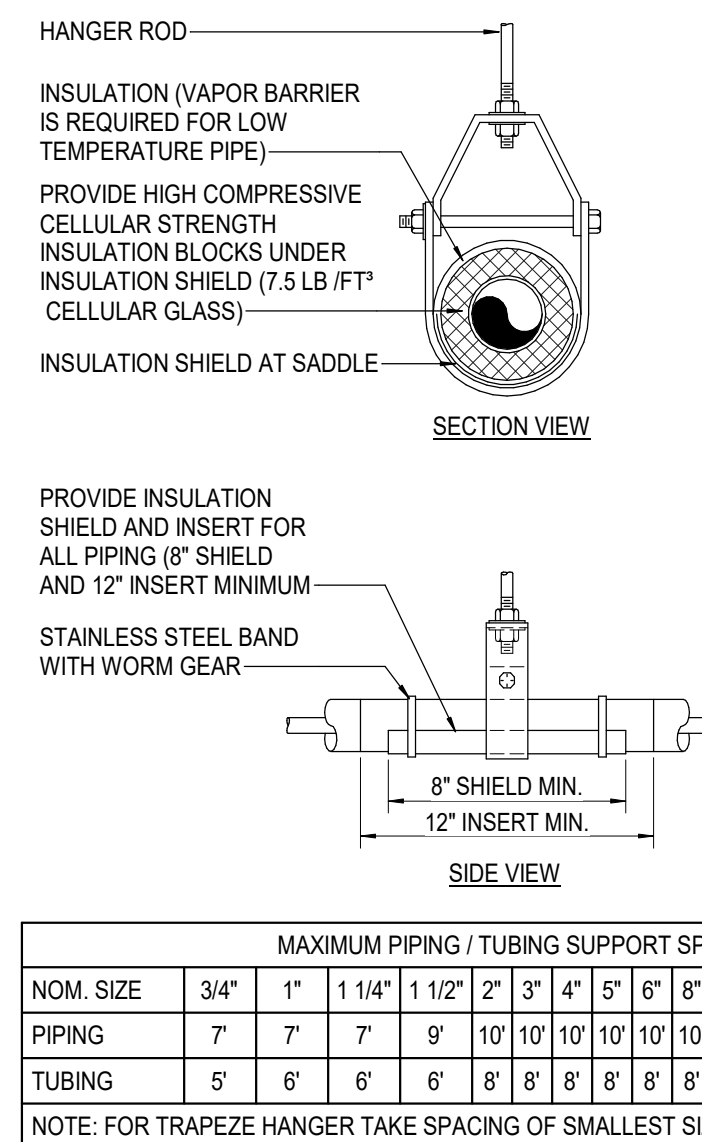
4 ELECTRIC WATER HEATER PIPING
SCALE: N.T.S



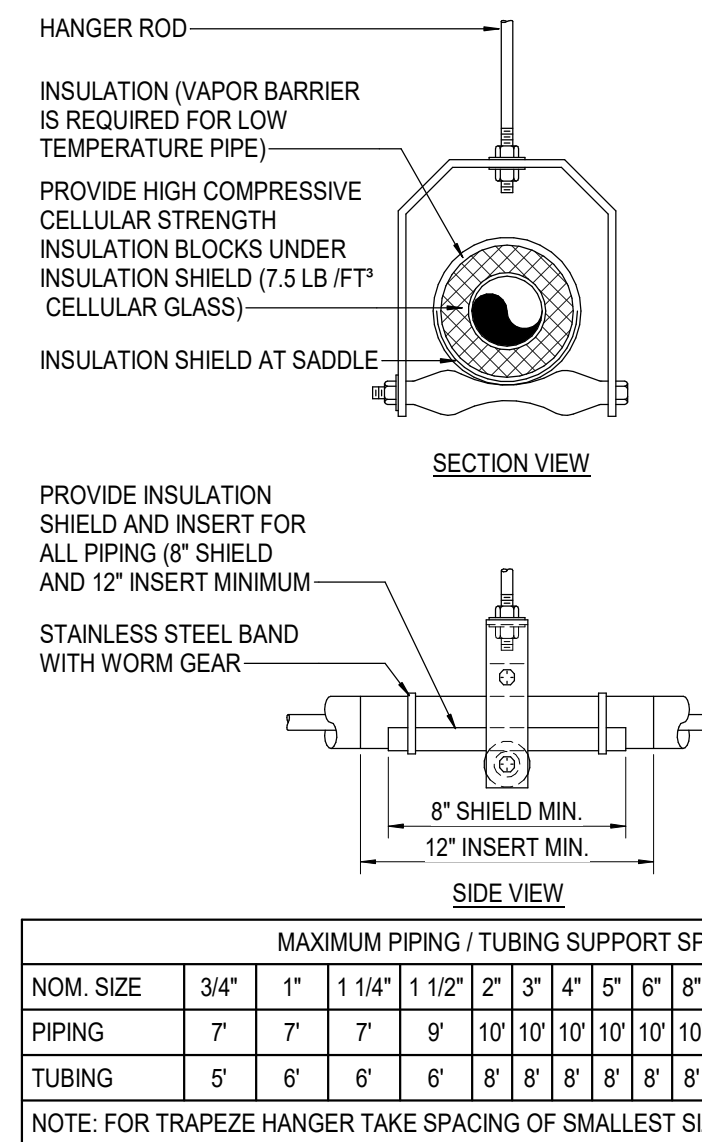
5 WASHER / DRAIN BOX CONNECTION DETAIL
SCALE: NOT TO SCALE



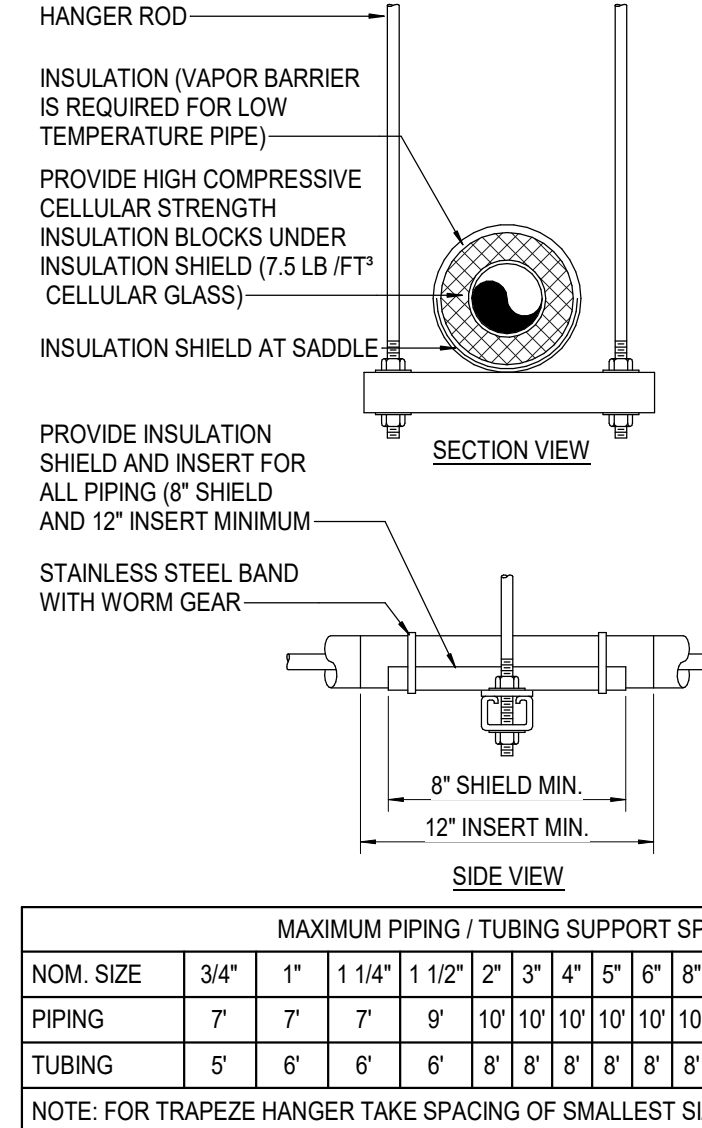
6 BACKFLOW PREVENTER MOUNTING DETAIL
SCALE: NOT TO SCALE



1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL
SCALE: NOT TO SCALE



2 ADJUSTABLE ROLLER PIPE HANGER DETAIL
SCALE: NOT TO SCALE



3 TRAPEZE PIPE HANGER DETAIL
SCALE: NOT TO SCALE



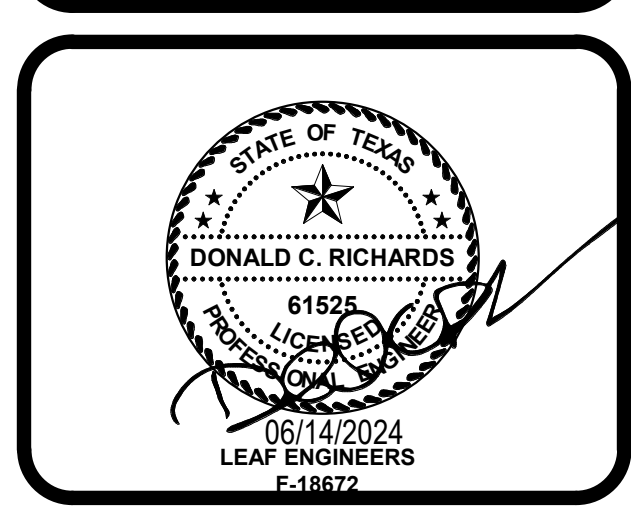
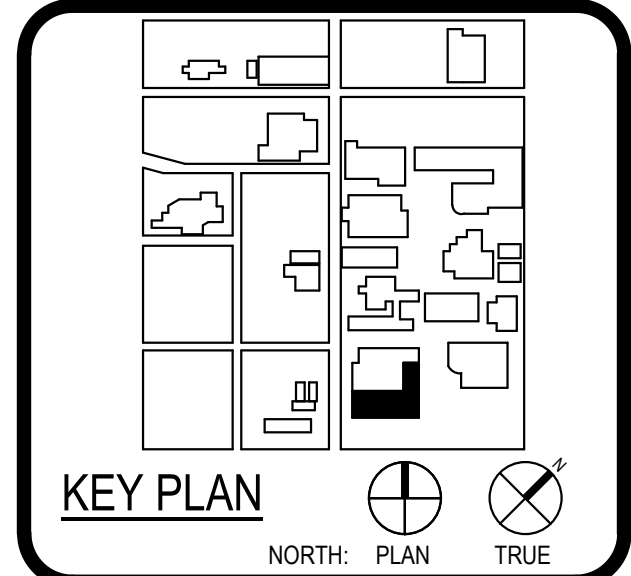
ARCHITECT	
PBK Architects, Inc.	SAN ANTONIO
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-0578 F TX Firm BR 1608	
CONSULTANTS	
ASSOCIATE ARCHITECT	B&A ARCHITECTS
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
MECHANICAL ENGINEER	MECHANICAL ENGINEERS
ELECTRICAL ENGINEER	ELECTRICAL ENGINEERS
CIVIL ENGINEER	CIVIL ENGINEERS
STRUCTURAL ENGINEER	STRUCTURAL ENGINEERS
PLUMBING ENGINEER	PLUMBING ENGINEERS
MECHANICAL ENGINEER	MECHANICAL ENGINEERS
ELECTRICAL ENGINEER	ELECTRICAL ENGINEERS
CIVIL ENGINEER	CIVIL ENGINEERS
STRUCTURAL ENGINEER	STRUCTURAL ENGINEERS
PLUMBING ENGINEER	PLUMBING ENGINEERS



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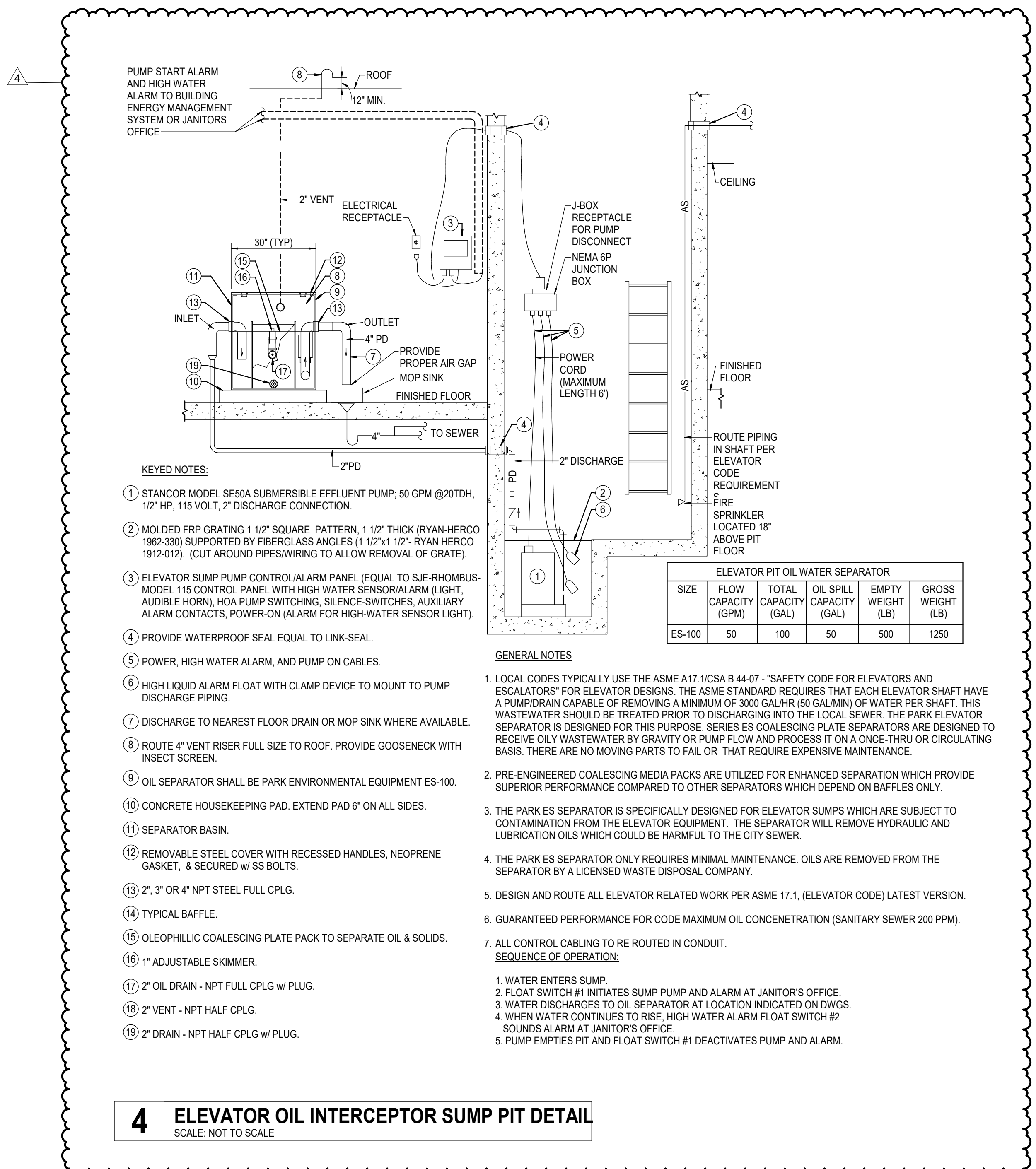
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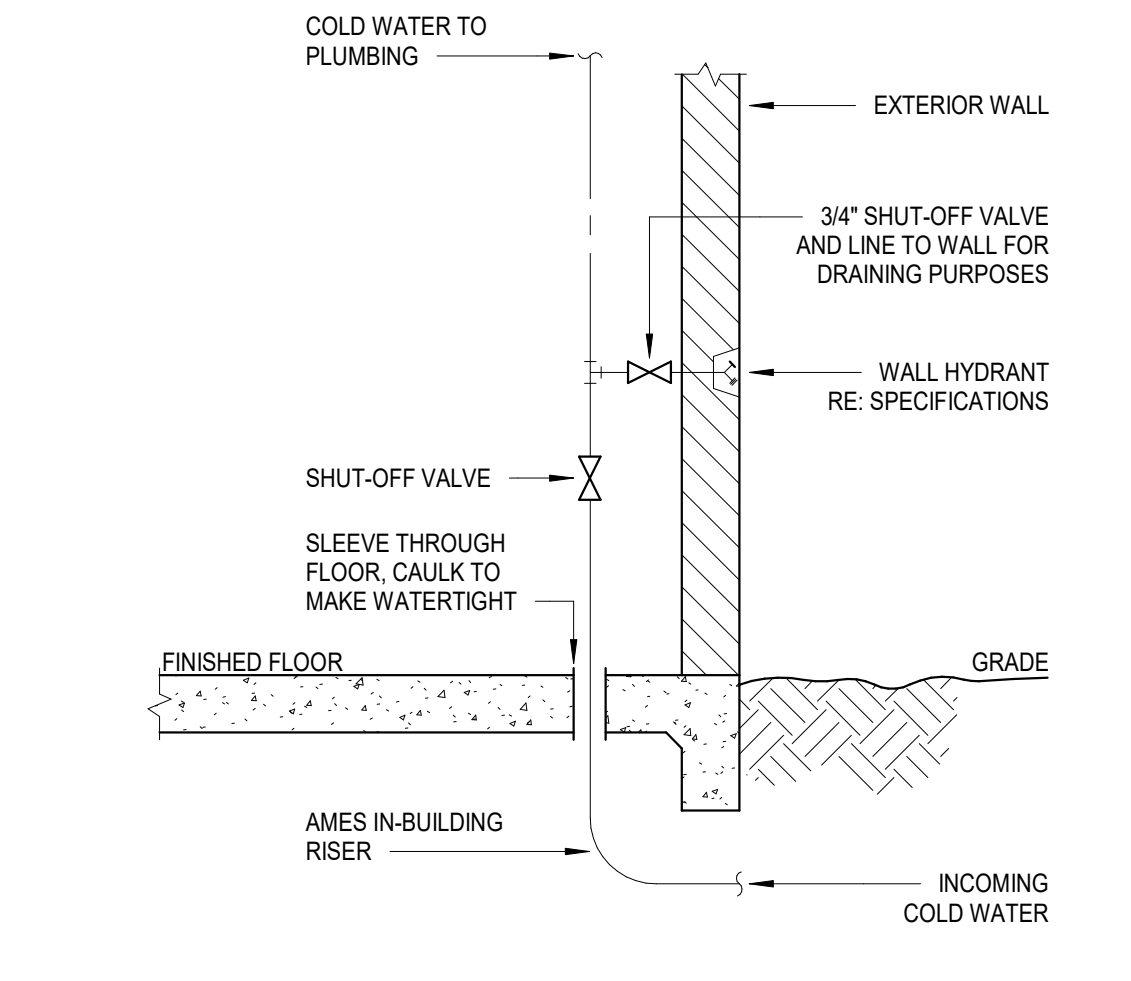
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
06/14/2024		
DRAWING HISTORY		
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BUILDING NUMBER 1

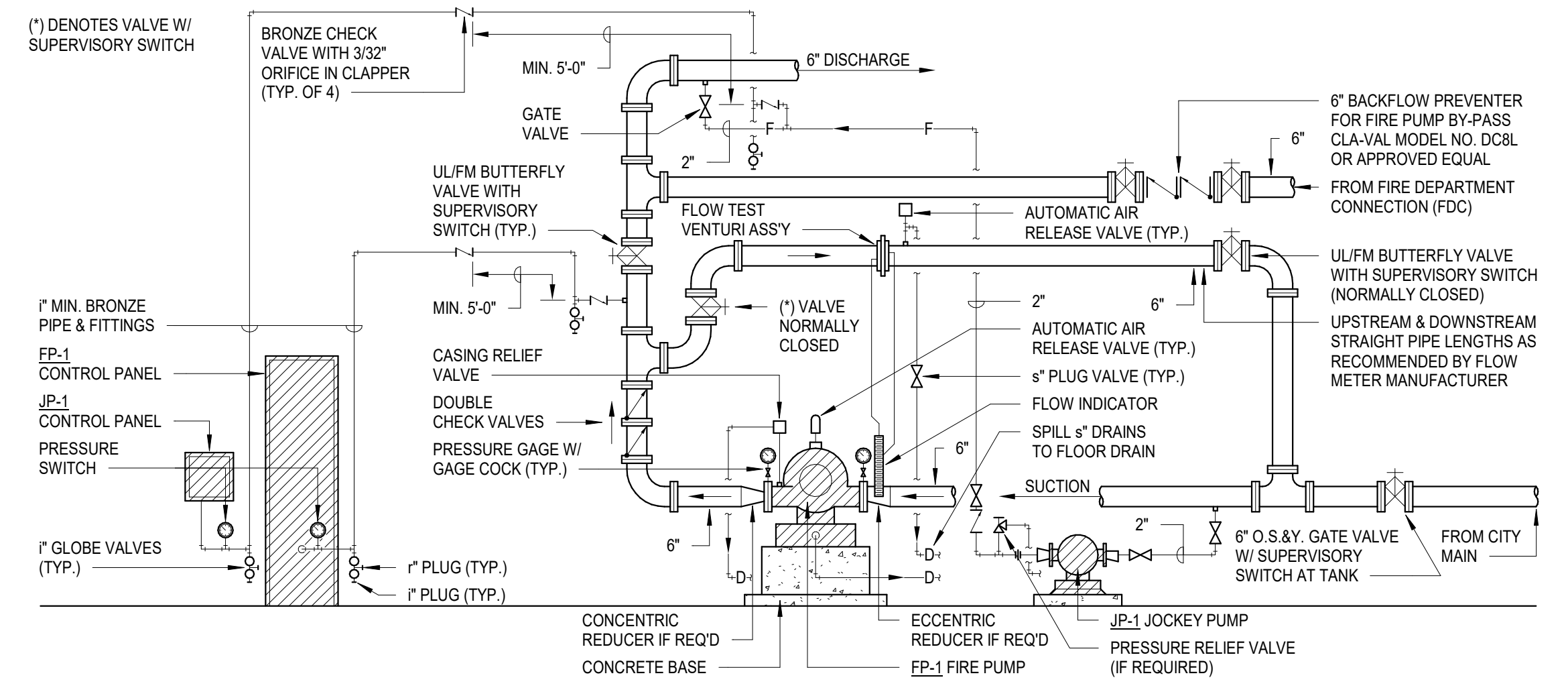
PLUMBING DETAILS



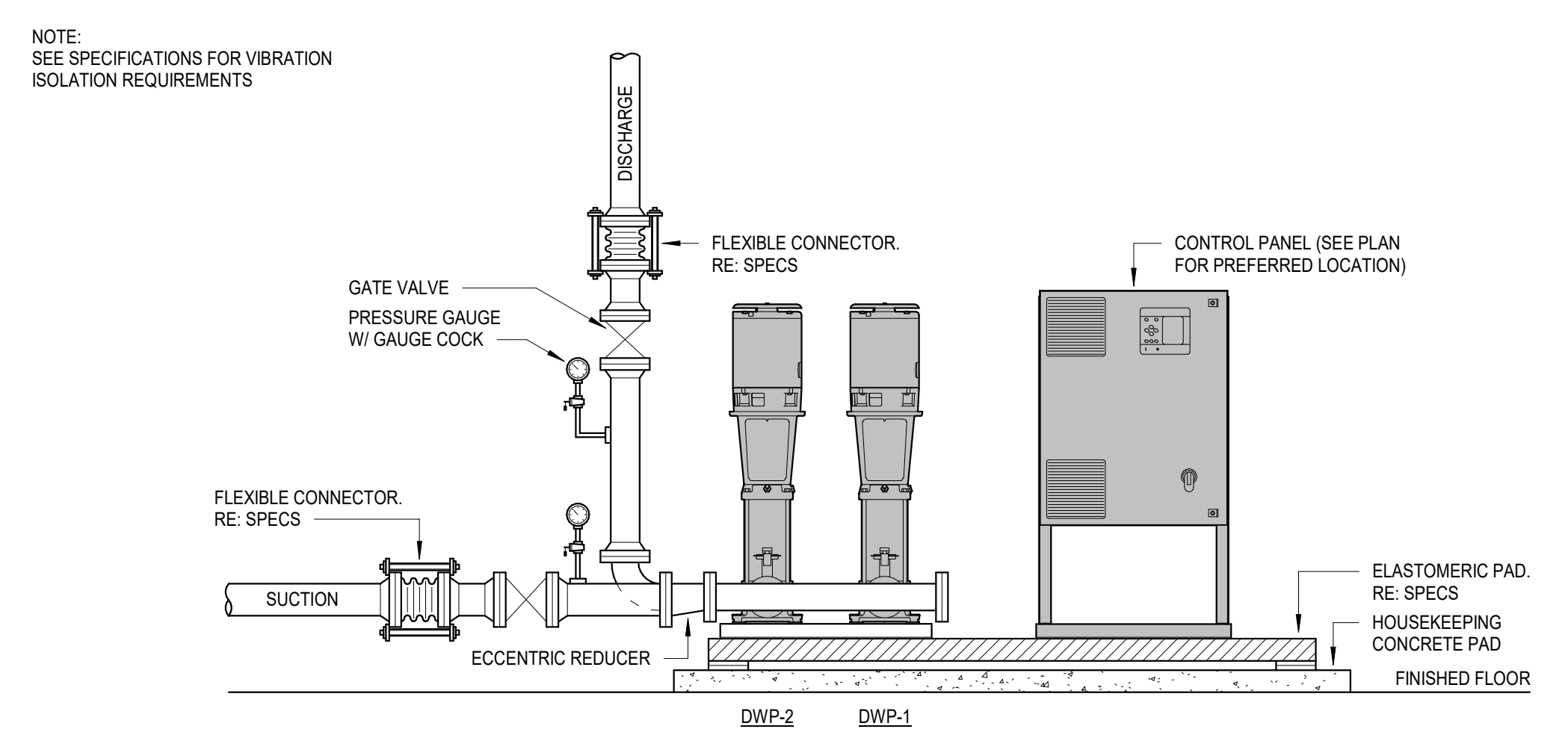
4 ELEVATOR OIL INTERCEPTOR SUMP PIT DETAIL
SCALE: NOT TO SCALE



1 DOMESTIC COLD WATER ENTRY
SCALE: N.T.S.



2 FIRE PUMP
SCALE: N.T.S.



3 DUPLIX PACKAGE PUMPING SYSTEM
SCALE: N.T.S.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for fire alarm pull stations, detectors, strobes, and transmitters.

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for fire alarm control panels, annunciators, and monitors.

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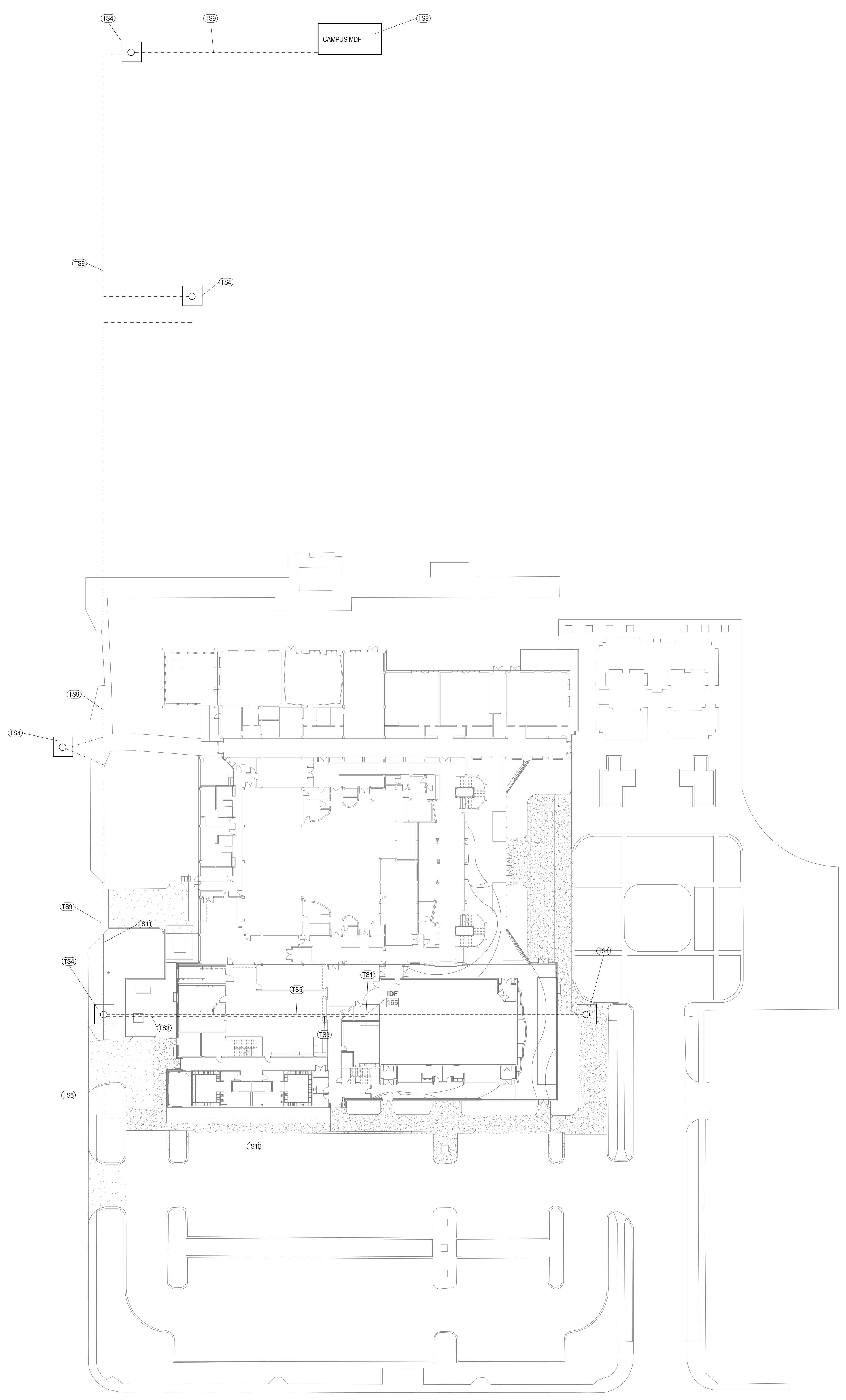
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Project information block including client name (Alamo Colleges), project number (230462), drawing history, and issue for construction stamp.

ISSUE FOR CONSTRUCTION



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.

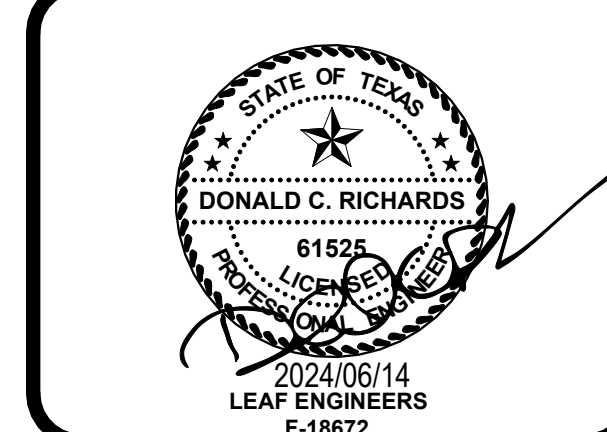
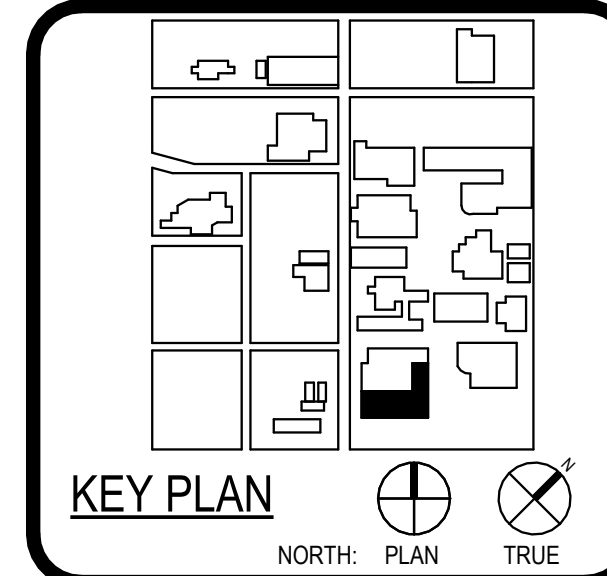


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
CONSULTANT	CEC
DESIGNER	TS-101
LANDSCAPE	TS-101
SOILS AND GEOTECH	TS-101
TRUCKING	TS-101
UTILITY & MECHANICAL ENGINEERING	TS-101
MEP	TS-101
PROLOGUE	TS-101
MEAN PROFESSIONALS	TS-101
MECHANICAL	TS-101
TRUCKING	TS-101
TRUCKING	TS-101



WFAC Black Box Addition PKG 1

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



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