

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**  
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ASSOCIATE ARCHITECT  
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Table with columns SHEET NUMBER and SHEET NAME. Lists architectural, mechanical, and plumbing sheets including general information, site plans, and details.

ADD ALTERNATES

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

ABBREVIATIONS AND LEGEND KEYS

Table of abbreviations and legend keys. Includes sections for 'REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS', 'PROJECT GRAPHIC REFERENCES', and 'CONSTRUCTION TYPE SYMBOLS'. Lists various materials and construction types with their corresponding symbols.

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE TO INCLUDE AIA DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION". CLIENT SHALL BE DESIGNATED AS "THE OWNER".
B. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF ALL APPLICABLE SAFETY AND BUILDING CODES.
C. CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITIONS AS PROVIDED IN THE CONSTRUCTION DOCUMENTS.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE PROTECTION OF ANY EXISTING FINISHES, MATERIALS, AND EQUIPMENT TO REMAIN.
E. ALL MATERIALS AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
F. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF STANDARD QUALITY, AND FREE FROM DEFECTS, WILL BE PERMITTED IN THE WORK.
G. DO NOT SCALE DRAWINGS. STATED & WRITTEN DIMENSIONS GOVERN.
H. CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF EXISTING AND PROPOSED NEW MECHANICAL, ELECTRICAL, PLUMBING, DATA, AND SPRINKLER EQUIPMENT.
I. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL FOR ALL, BUT NOT LIMITED TO, THE FOLLOWING: SHOP-FABRICATED MILLWORK, CARPET LAYOUT, FLOORING, LIGHT FIXTURES, DOORS, MISC. STEEL, METAL FABRICATION, GLASS/GLAZING, SPRINKLER LAYOUTS, HARDWARE.
J. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES.
K. CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH MANUFACTURER'S CUT SHEETS AND SPECIFICATIONS FOR ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, PLUMBING EQUIPMENT, ELECTRICAL EQUIPMENT, FANS, SUPPLEMENTARY HEATING AND COOLING ELEMENTS, ALL HARDWARE AND SECURITY EQUIPMENT.
L. CONTRACTOR SHALL NOT PROCEED WITH WORK FOR WHICH ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT IS EXPECTED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER.
M. CONTRACTOR SHALL REVIEW AND COORDINATE THE SIZE AND LOCATION OF ALL SLAB OPENINGS WITH ALL RELATED DISCIPLINES.
N. PATCH, REPAIR, AND INSTALL ALL FIREPROOFINGS AS REQUIRED BY CODE. FIREPROOF ALL NEW PENETRATIONS AS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
O. CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS.
P. FINISHED WORK SHALL BE FIRM, WELL-ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION.
Q. ATTACHMENTS, CONNECTIONS OR FASTENERS OF ANY NATURE ARE TO PROPERLY AND PERMANENTLY BE SECURED IN CONFORMANCE WITH INDUSTRY BEST PRACTICES.
R. CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
S. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS AND SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS TO AVOID DELAYS IN CONSTRUCTION.
T. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY WITH A PROPOSED ALTERNATIVE.
U. UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CORRECT.
V. CONTRACTOR SHALL EXERCISE INDUSTRY BEST PRACTICES FOR CARE AND CAUTION DURING THE CONSTRUCTION OF THE WORK AND SHALL SCHEDULE WORK TO MINIMIZE DISTURBANCES TO OCCUPANTS.
W. ADJACENT SPACES AND/OR STRUCTURES, PROPERTY, PUBLIC THOROUGHFARES, ETC. THE GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS AND BE RESPONSIBLE FOR THE SAFETY OF ALL BUILDING OCCUPANTS DURING CONSTRUCTION PROCEDURES.
X. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A DAILY BASIS, OR AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
Y. ALL ABANDONED AND MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, CONDUITS AND DEBRIS SHALL BE REMOVED FROM EXPOSED AREAS OF THE FLOORS, WALLS, AND CEILINGS.
Z. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY ACCESS PANELS WHICH MAY BE REQUIRED PRIOR TO PROCEEDING WITH THE WORK.
ZB. CONTRACTOR SHALL PROVIDE THE TEAM WITH A CONSTRUCTION SCHEDULE SHOWING THE PROPOSED PHASING. LONG LEAD ITEMS THAT WILL AFFECT THE SUBSTANTIAL COMPLETION DATE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.



Table listing project team members and roles: ARCHITECT (SAN ANTONIO), PBK Architects, Inc., SAN ANTONIO, 601 N.W. Loop 410, Suite 400, San Antonio, TX 78216.

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

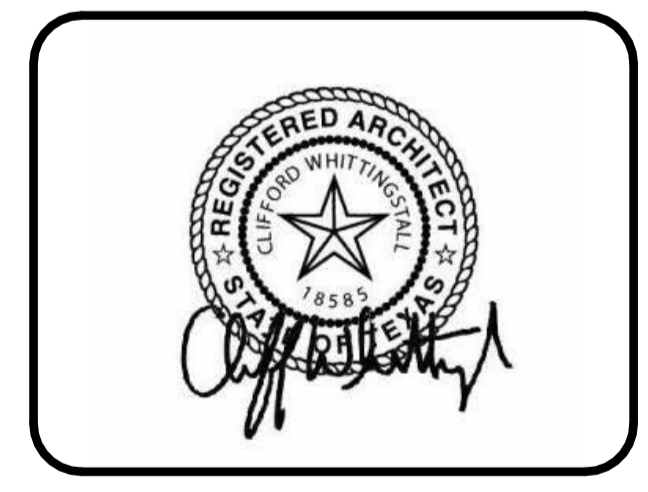
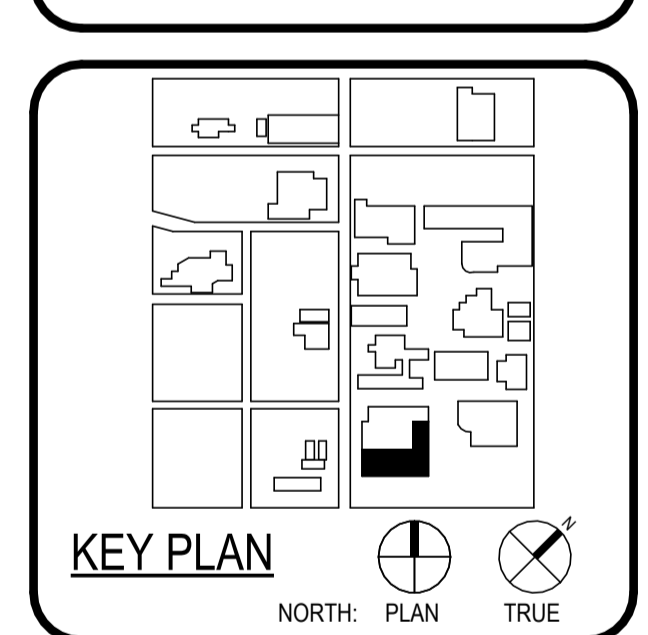
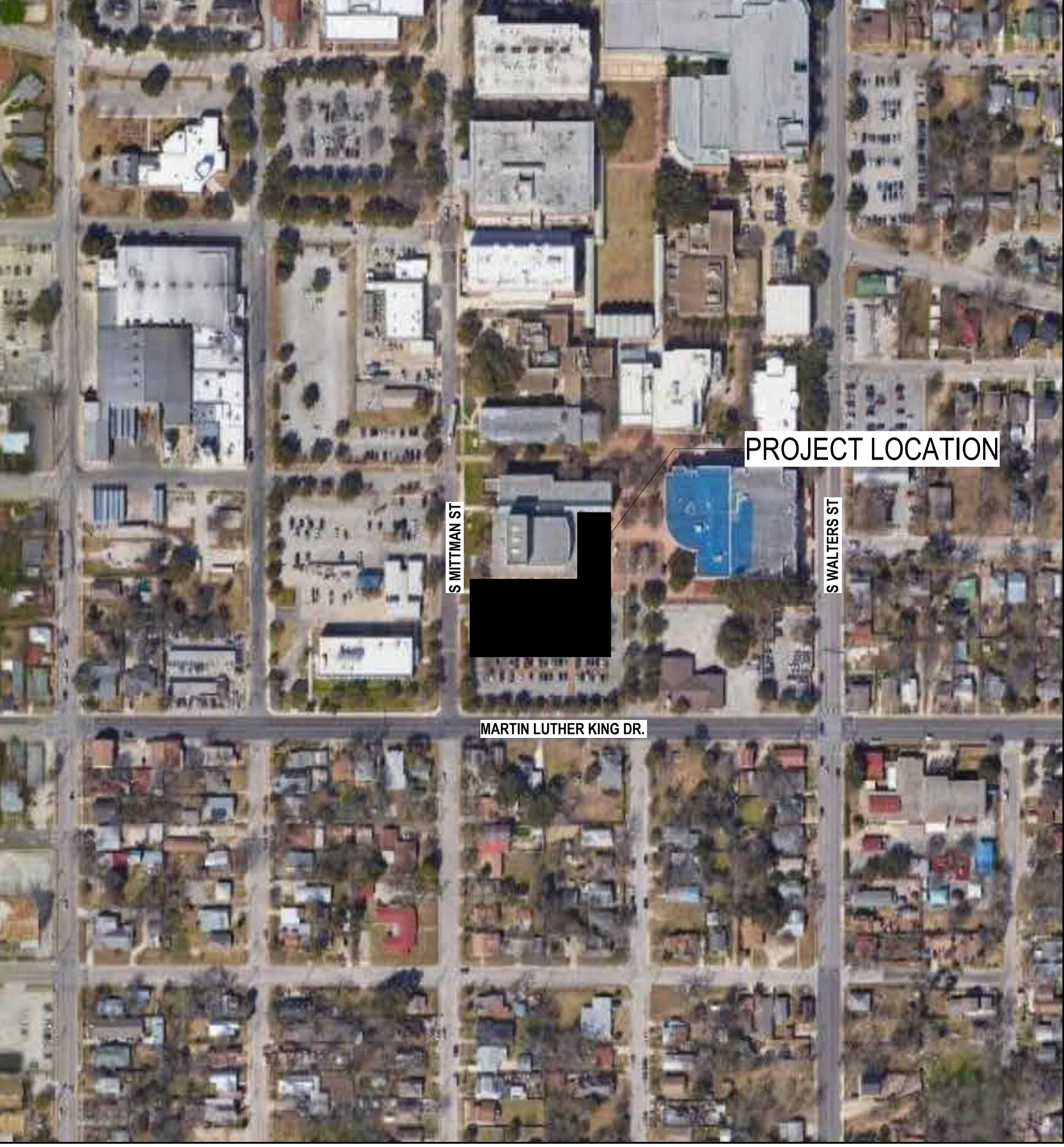


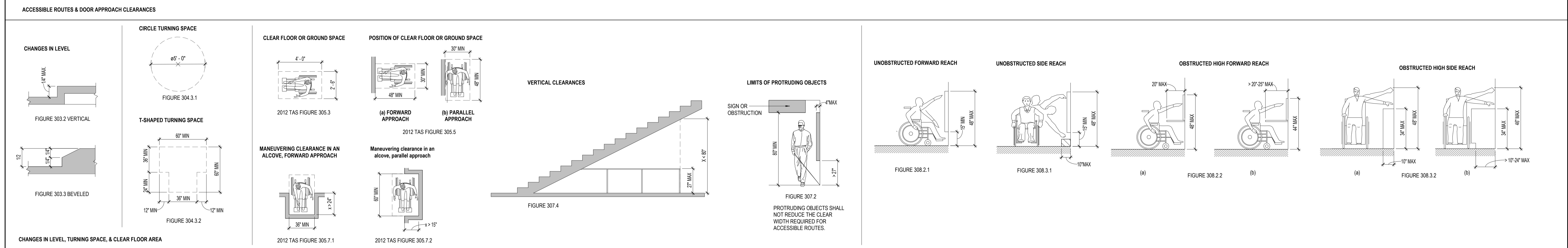
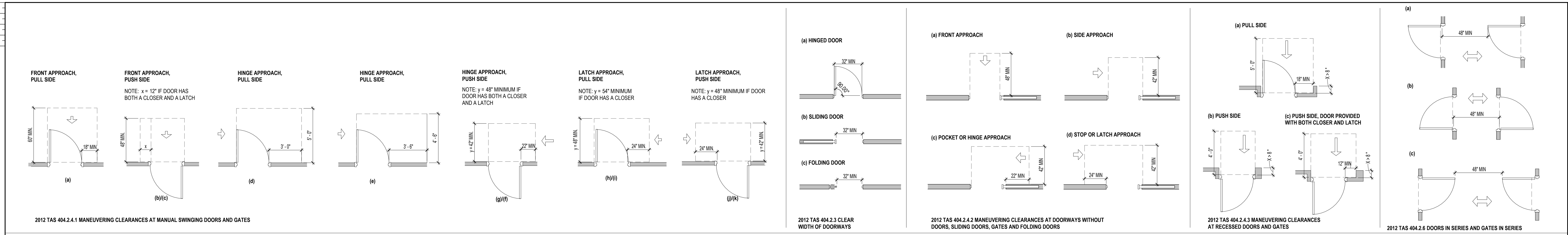
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ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1

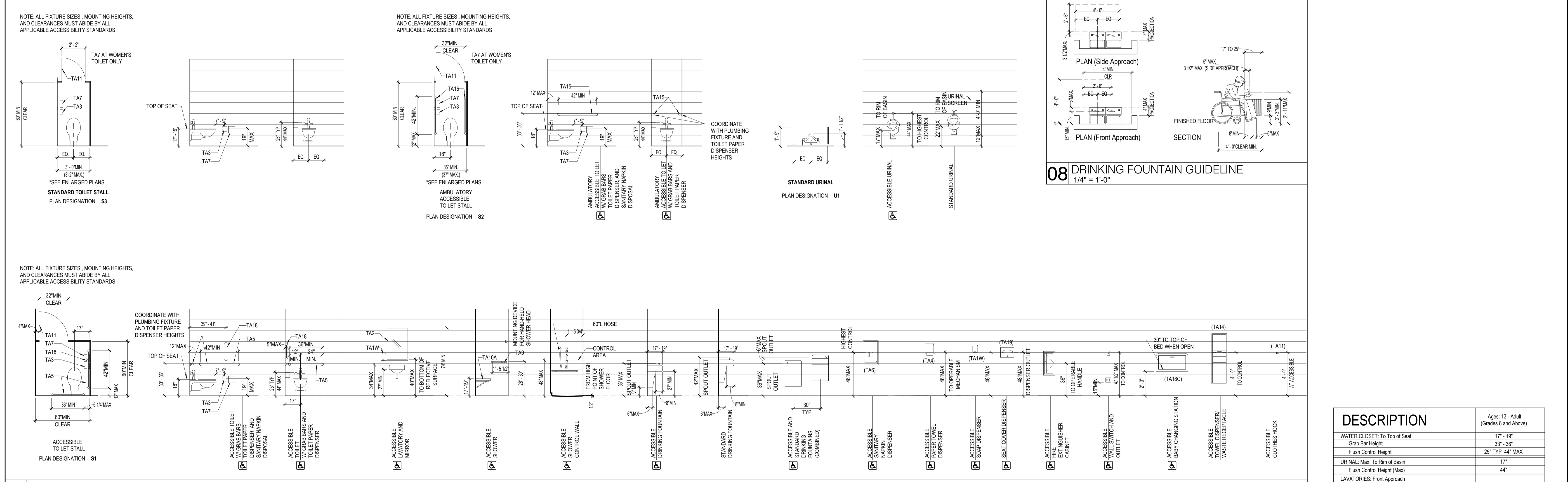
GENERAL PROJECT INFORMATION

VICINITY MAP

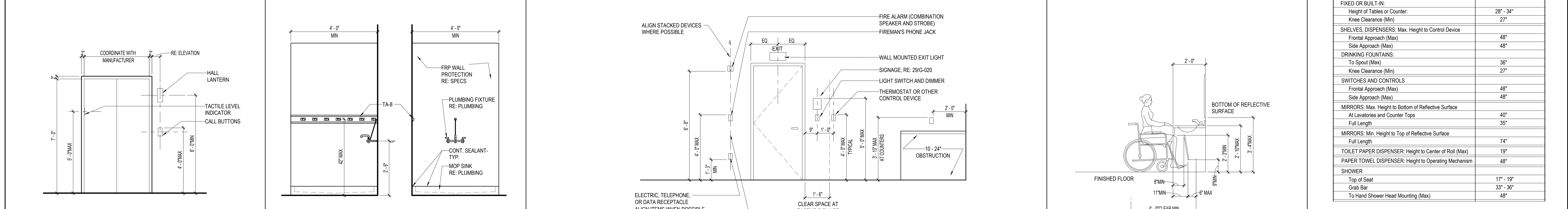




**24 TEXAS ACCESSIBILITY STANDARDS**  
1/4" = 1'-0"



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

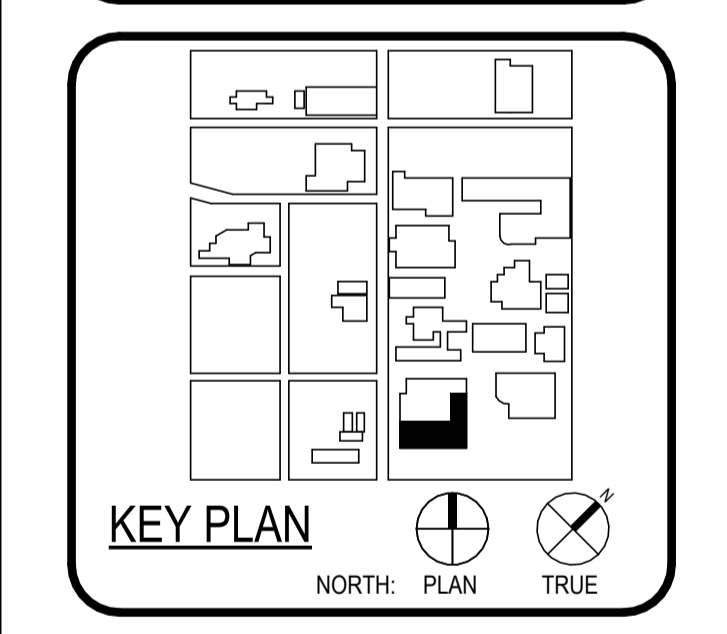


**06 TYP ELEVATOR DOOR** 3/8" = 1'-0"  
**05 TYP CUSTODIAL CLOSET** 1/2" = 1'-0"  
**04 MISC MOUNTING HEIGHTS** 3/8" = 1'-0"  
**02 ACCESSIBLE VANITY** 3/8" = 1'-0"  
**01 ACCESSIBLE MOUNTING HEIGHTS** 1/4" = 1'-0"



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San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1808

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



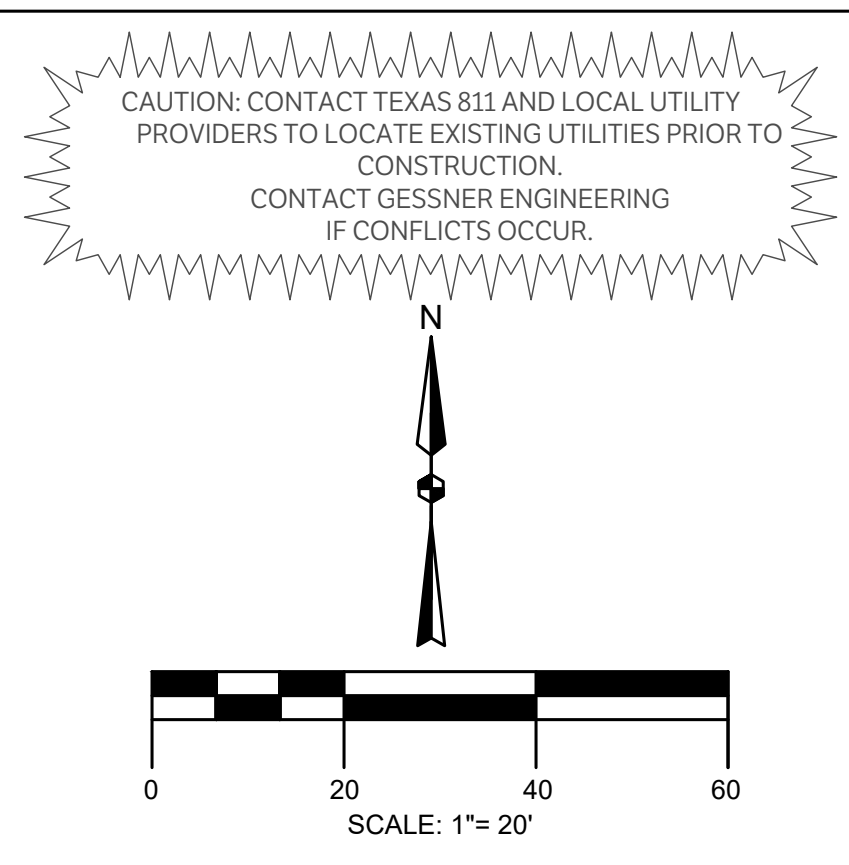
CLIENT: Alamo Colleges		
DATE: 2024/06/14	PROJECT NUMBER: 230462	
DRAWING HISTORY		
No.	Description	Date

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER: 1



Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.

# ISSUE FOR PERMIT

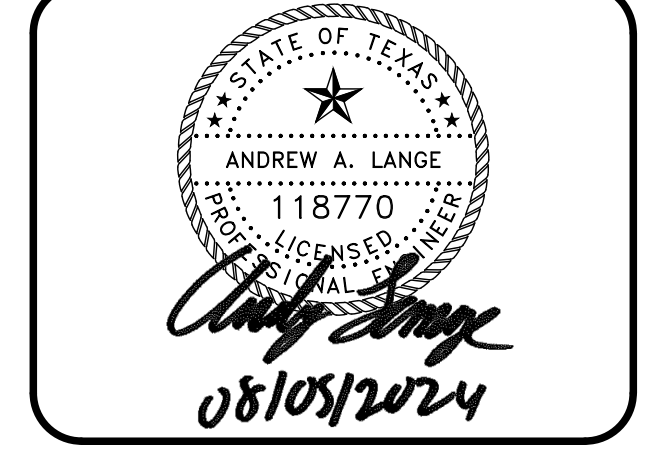
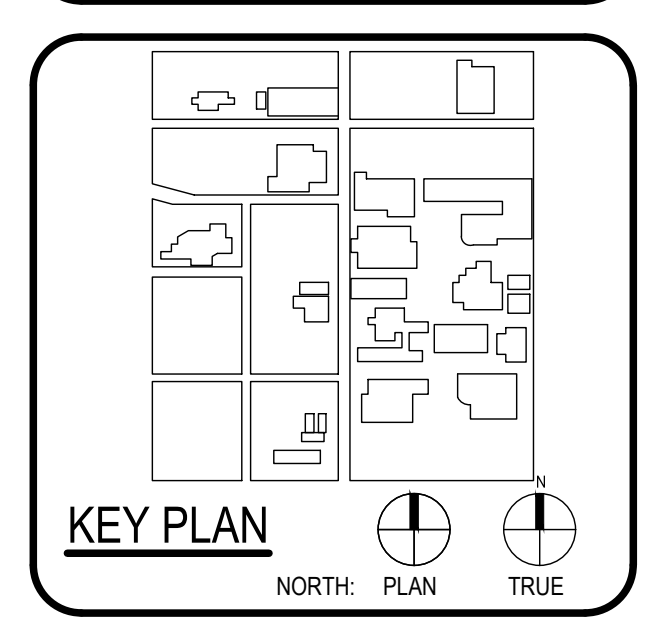
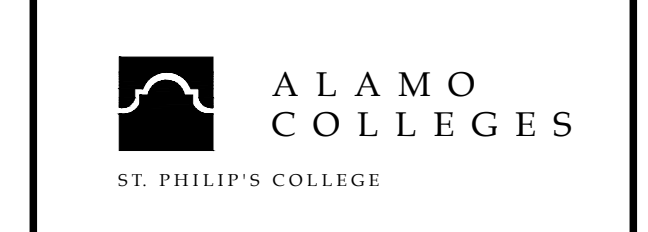


ARCHITECT: SAN ANTONIO PBK Architects, Inc.  
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San Antonio, TX 78216  
210-820-0123 P  
210-829-0578 F  
TX Firm BR 1608

PROJECT: WFAC Black Box Addition  
DATE: 08/05/2024

WFAC Black Box Addition PKG 1

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

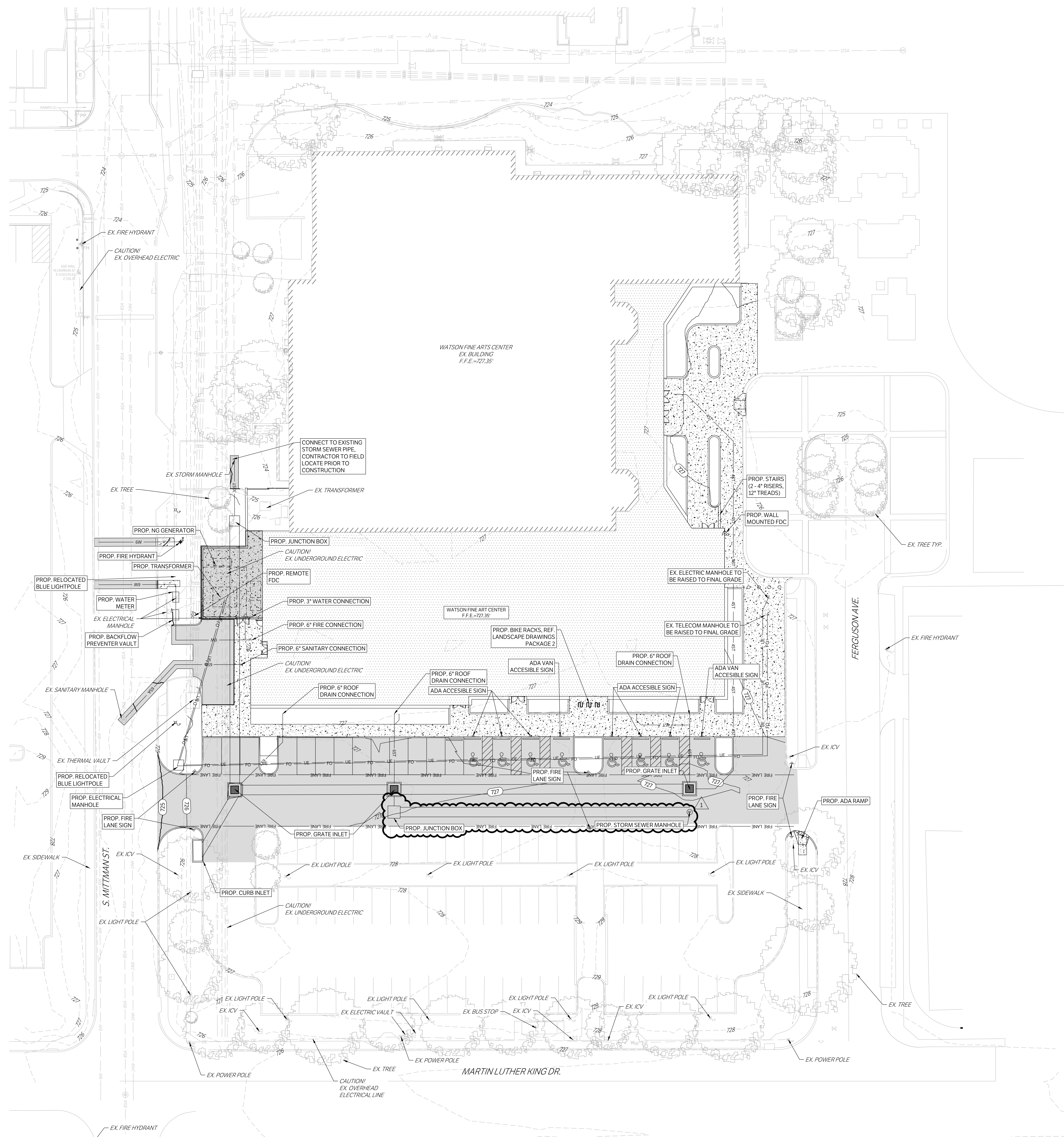


CLIENT		Alamo Colleges
DATE	2024/06/12	PROJECT NUMBER
		230462
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT  
BUILDING NUMBER

**SITE PLAN**

**C200**



**LEGEND**

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

**PARKING TABLE**

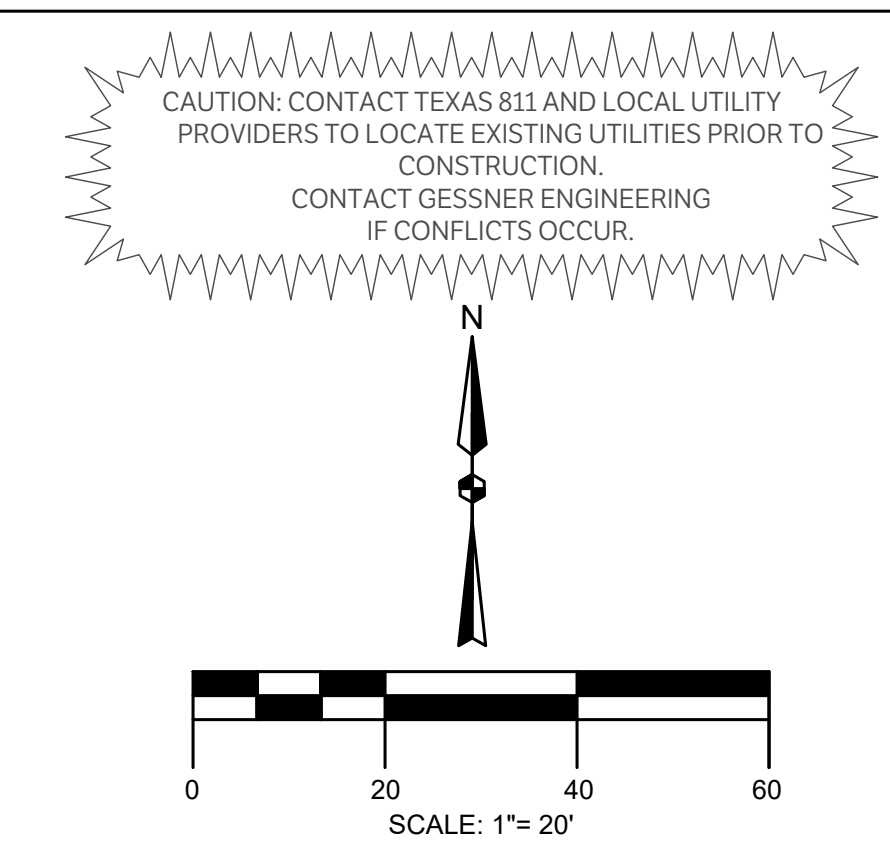
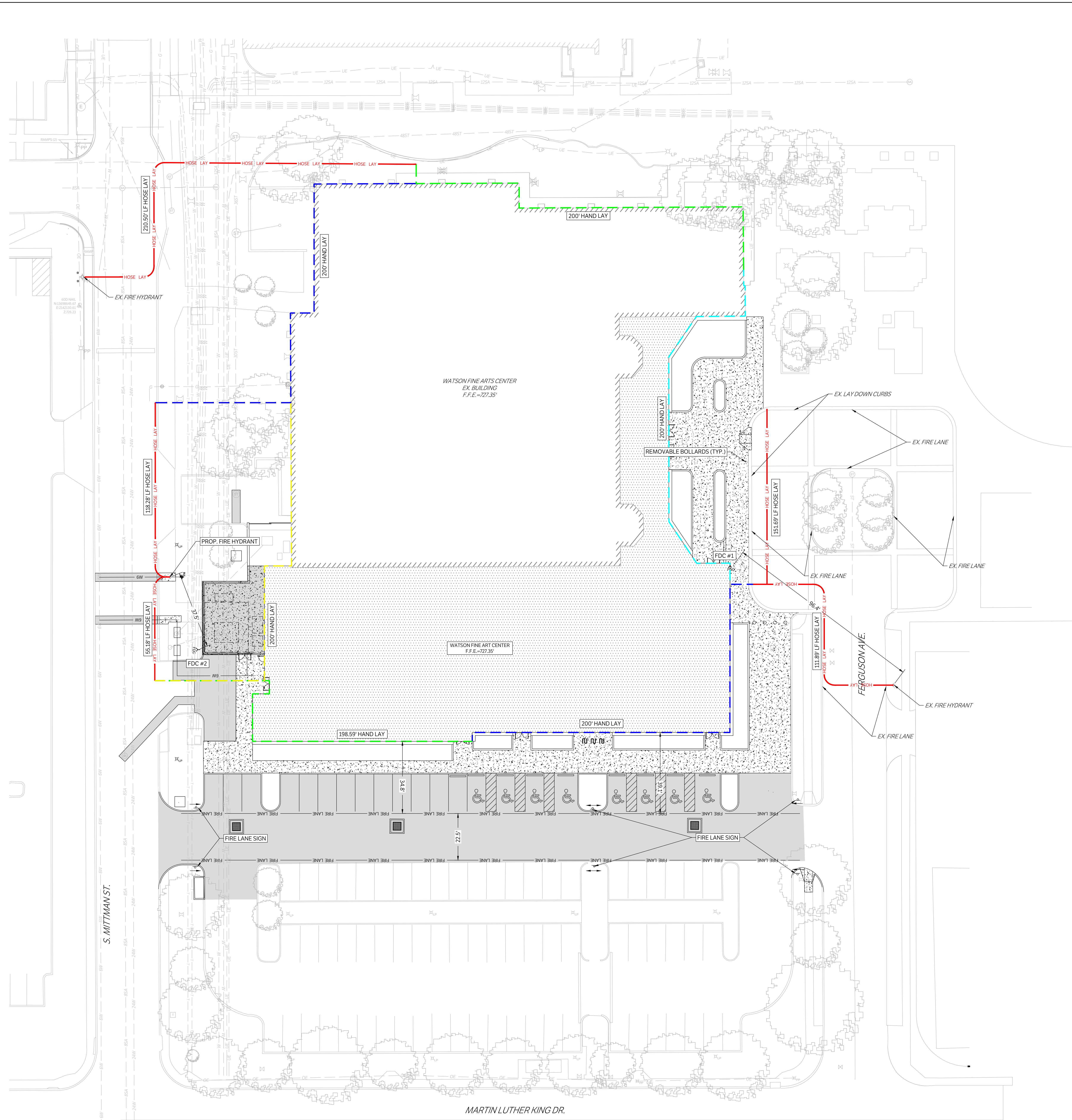
ITEM	QUANTITY
EXISTING PARKING SPOTS	125
EXISTING ADA SPOTS	9
REQUIRED ADA SPOTS	4
PROPOSED PARKING SPOTS	81
PROPOSED ADA SPOTS	8

**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

# ISSUE FOR CONSTRUCTION



**LEGEND**

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

**FIRE PROTECTION INFO**

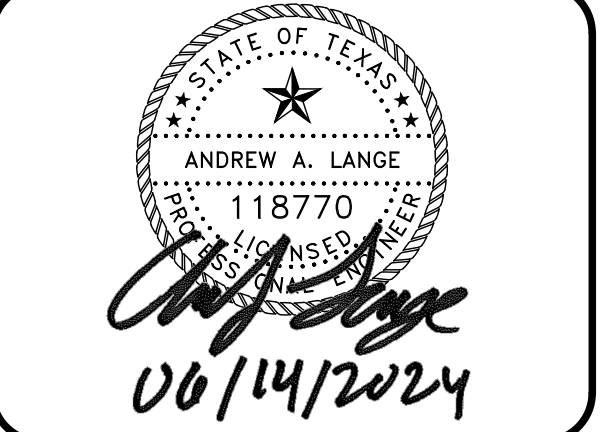
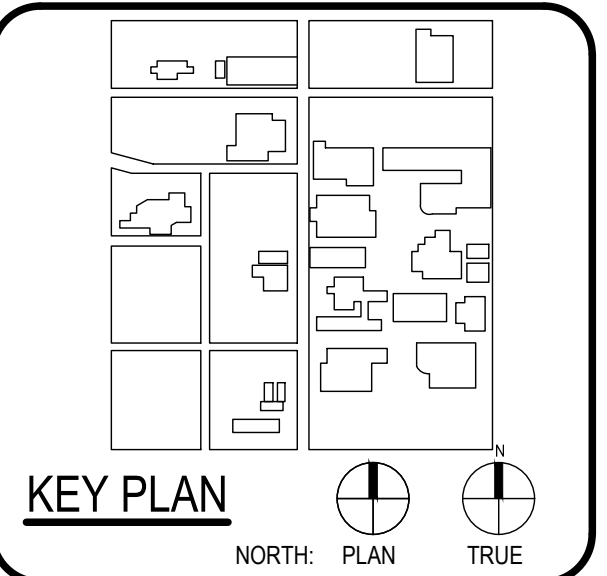
OWNER:	ST. PHILLIPS COLLEGE
SITE AREA (SF)	21,863
NO. OF STORIES	1
PROPOSED BUILDING	TOTAL GSF   HEIGHT   TYPE
	26,114   38 ft   IIB
TOTAL REQUIRED FLOW (GPM)	3,500
BUILDING SPRINKLER SYSTEM:	YES
REDUCTION DUE TO SPRINKLERS:	75%
FINAL REQUIRED FIRE FLOW	875
AVAILABLE FLOW @ 20 PSI (GPM)	940



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

ASSOCIATE ARCHITECT: SH & AL ARCHITECTS  
 1311 N. LOOP WEST  
 SUITE 1000  
 DALLAS, TEXAS 75242  
 214-760-1000  
 LINDY & HARRIS ENGINEERING  
 1311 N. LOOP WEST  
 SUITE 1000  
 DALLAS, TEXAS 75242  
 214-760-1000  
 MEYER ENGINEERS  
 1311 N. LOOP WEST  
 SUITE 1000  
 DALLAS, TEXAS 75242  
 214-760-1000

## WFAC Black Box Addition PKG 1



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

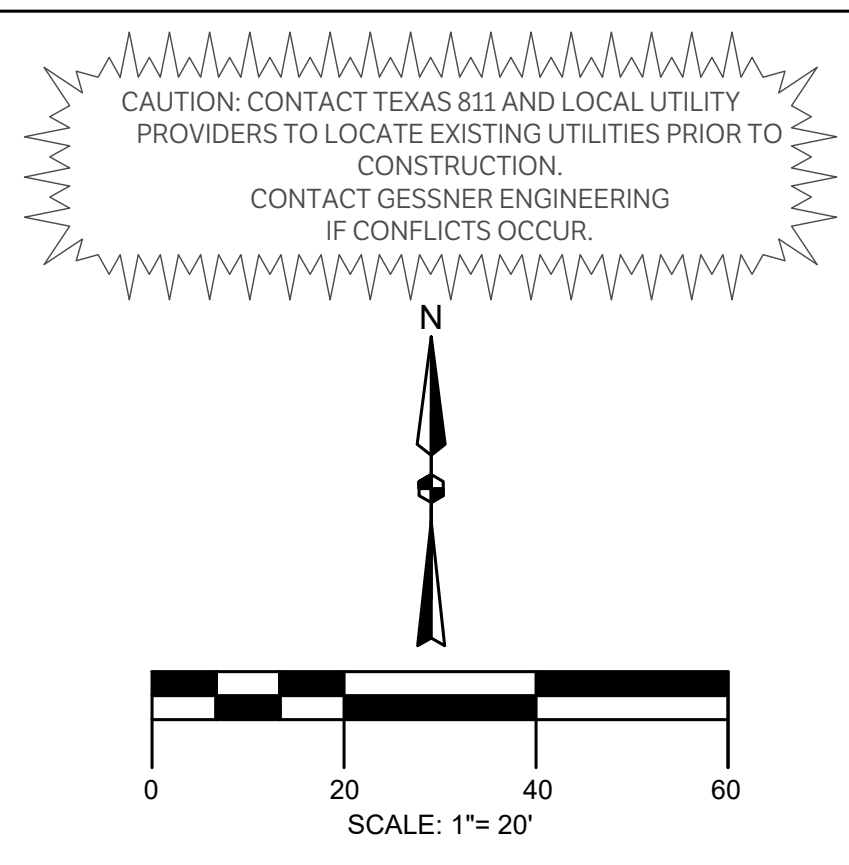
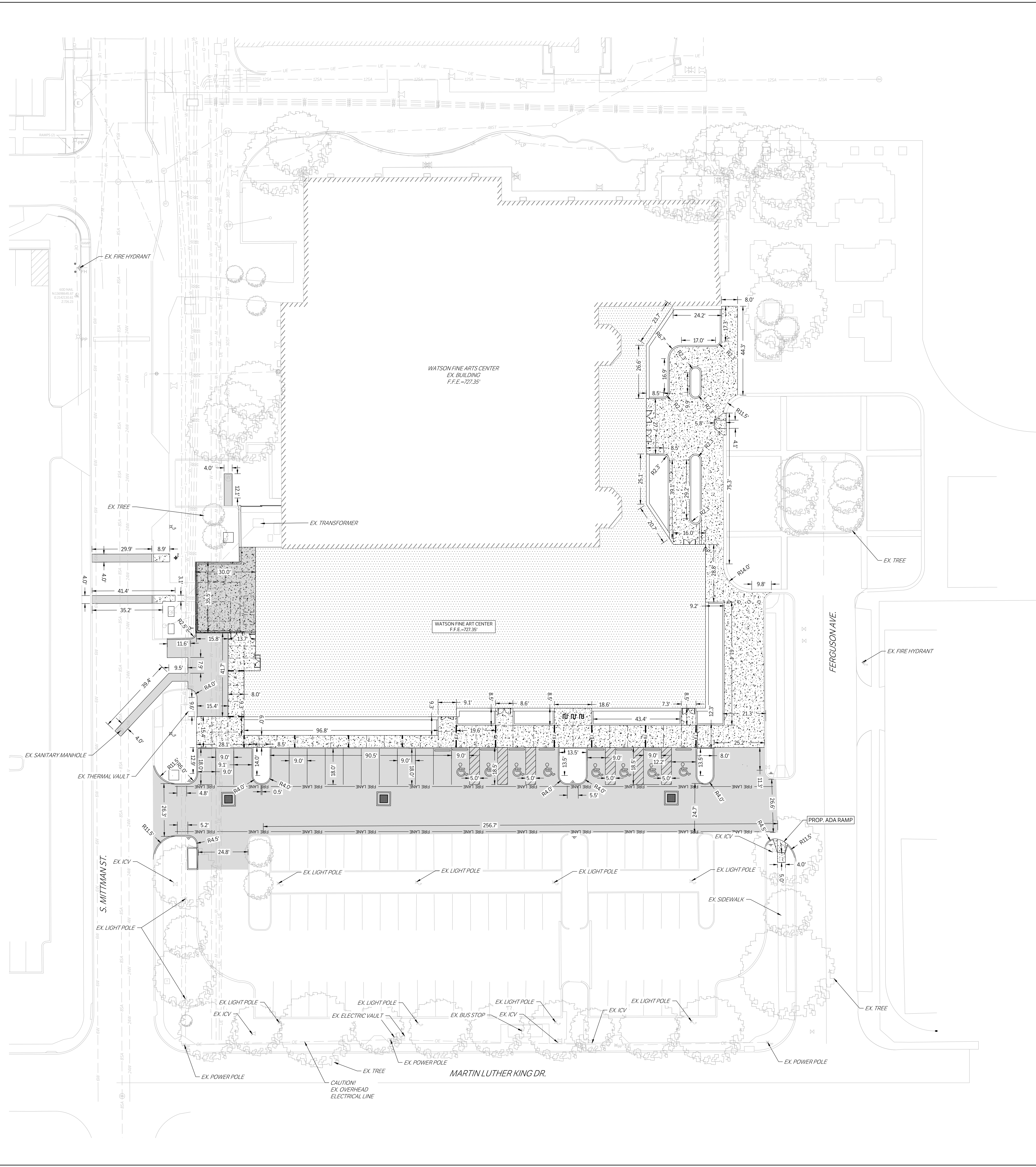
DRAWING HISTORY

No.	Description	Date

## SITE FIRE PLAN

C201

# ISSUE FOR CONSTRUCTION

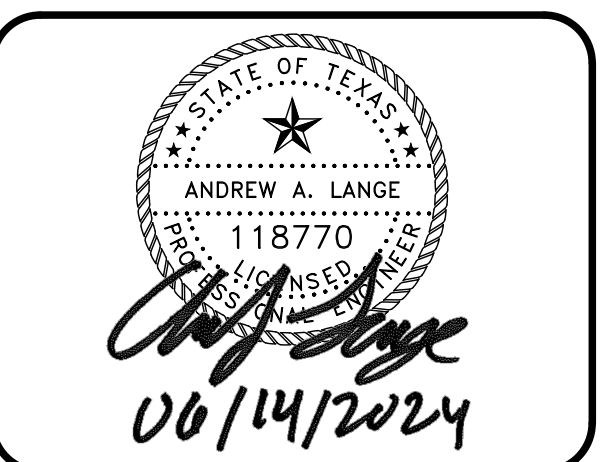
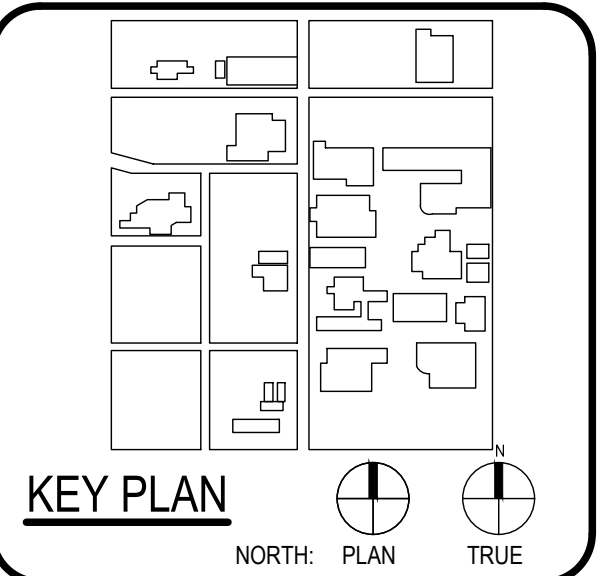


LEGEND	
[Pattern]	PROPOSED ASPHALT PAVEMENT
[Pattern]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Pattern]	PROPOSED 4" CONCRETE SIDEWALK
[Pattern]	PROPOSED BUILDING
[Line]	EXISTING PAVEMENT EDGE
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[Line]	EX.   PROP. OVERHEAD ELECTRIC
[Symbol]	EX.   PROP. FIRE HYDRANT
[Symbol]	EXPANSION JOINT
[Symbol]	EX.   PROP. WATER METER
[Symbol]	CONTRACTION JOINT
[Symbol]	EX.   PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
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ARCHITECT	PBK Architects, Inc.
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ASSOCIATE ARCHITECT	BA & ARCHITECTS
1701 BRUNNEN DALLAS, TEXAS 75201 LANDSCAPE ARCHITECT 1711 BRUNNEN DALLAS, TEXAS 75201 LINDY & HARRIS ENGINEERING 1711 BRUNNEN DALLAS, TEXAS 75201 MEASUREMENTS 1711 BRUNNEN DALLAS, TEXAS 75201 T.214.641.8600	

WFAC Black Box Addition PKG 1



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

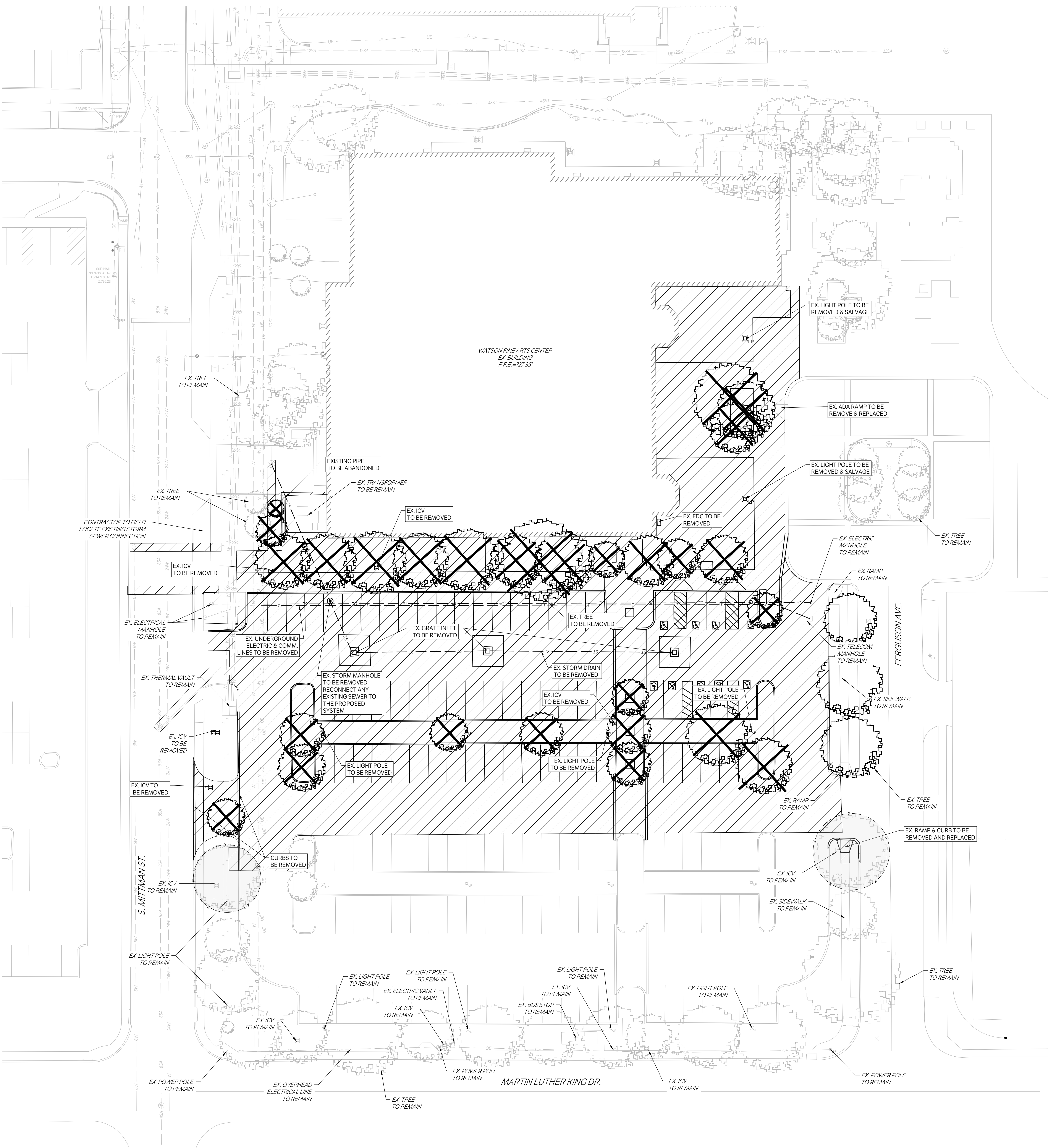
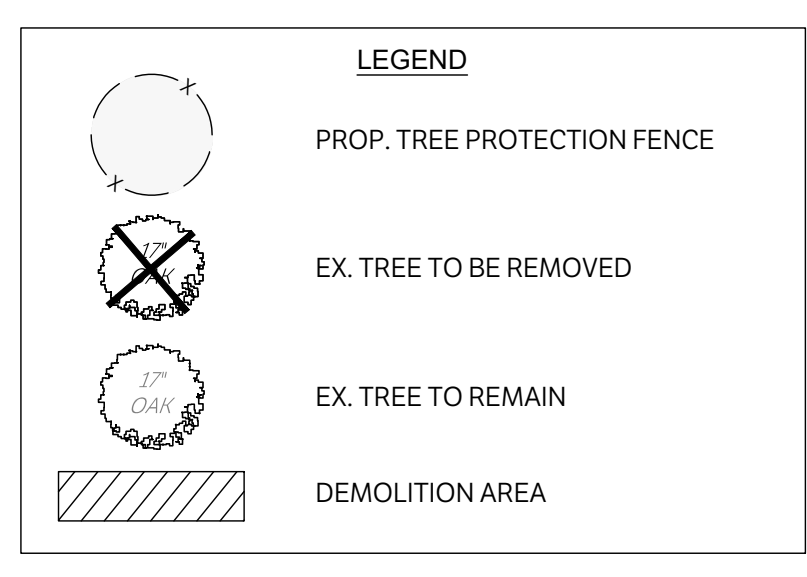
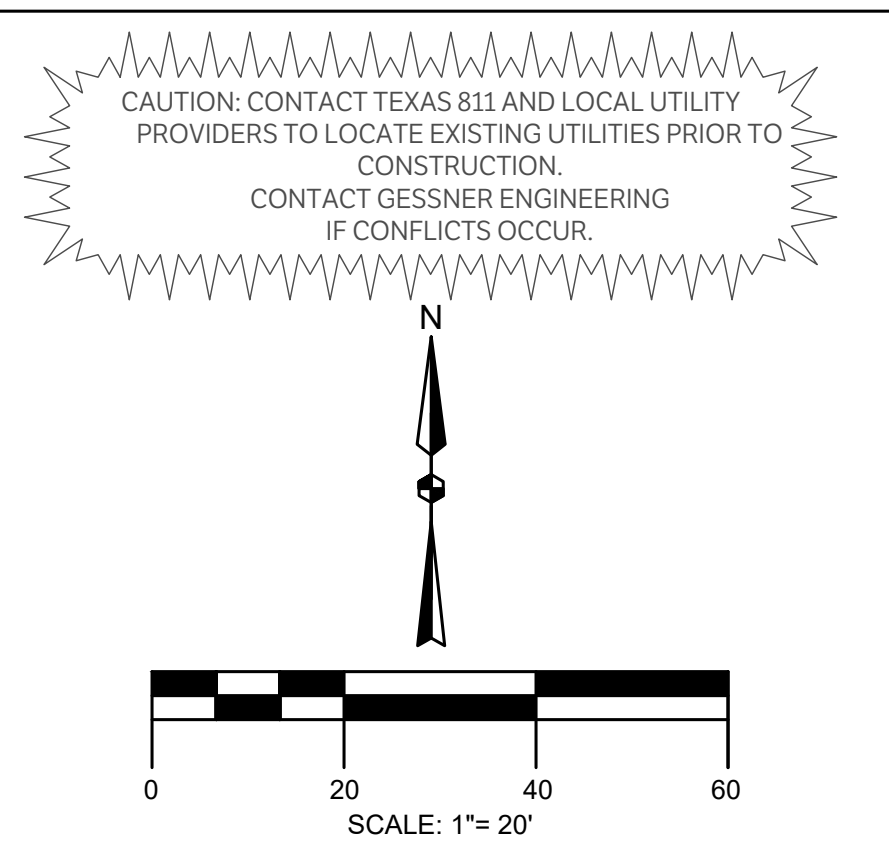
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

**DIMENSION CONTROL & PAVING PLAN**

**C202**

# ISSUE FOR CONSTRUCTION

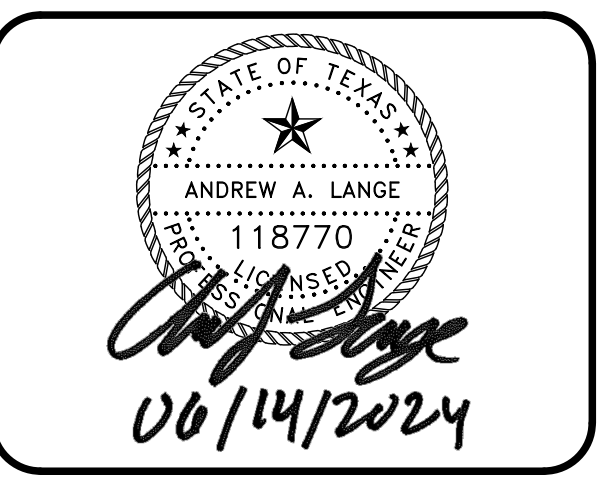
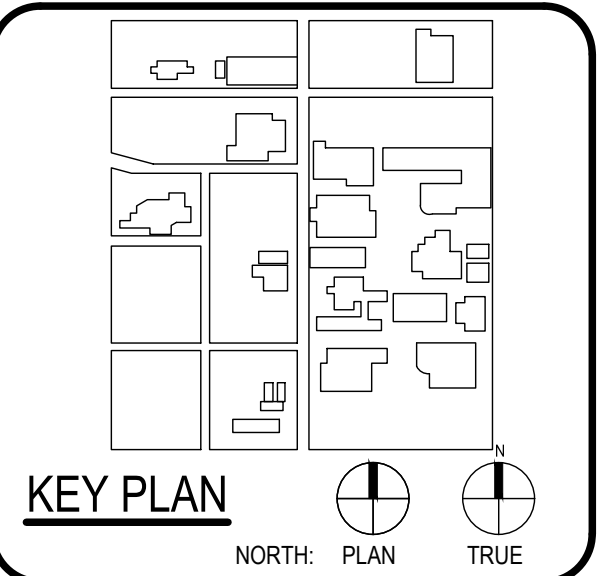
Sheet Grids Template  
2400  
FOR BLUEBERRY LABELING: OOR



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
2101 BRASS CELEBRITY LANDSCAPE ROSE AND DESIGN 1111 W. 14TH ST SAN ANTONIO, TX 78205 LUNDY & HARRIS ENGINEERING 1111 W. 14TH ST SAN ANTONIO, TX 78205 T. 210-829-0123 PROLOGUE MEAN PROFESSIONALS 1111 W. 14TH ST SAN ANTONIO, TX 78205 T. 210-829-0123	

WFAC Black Box Addition PKG 1

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



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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

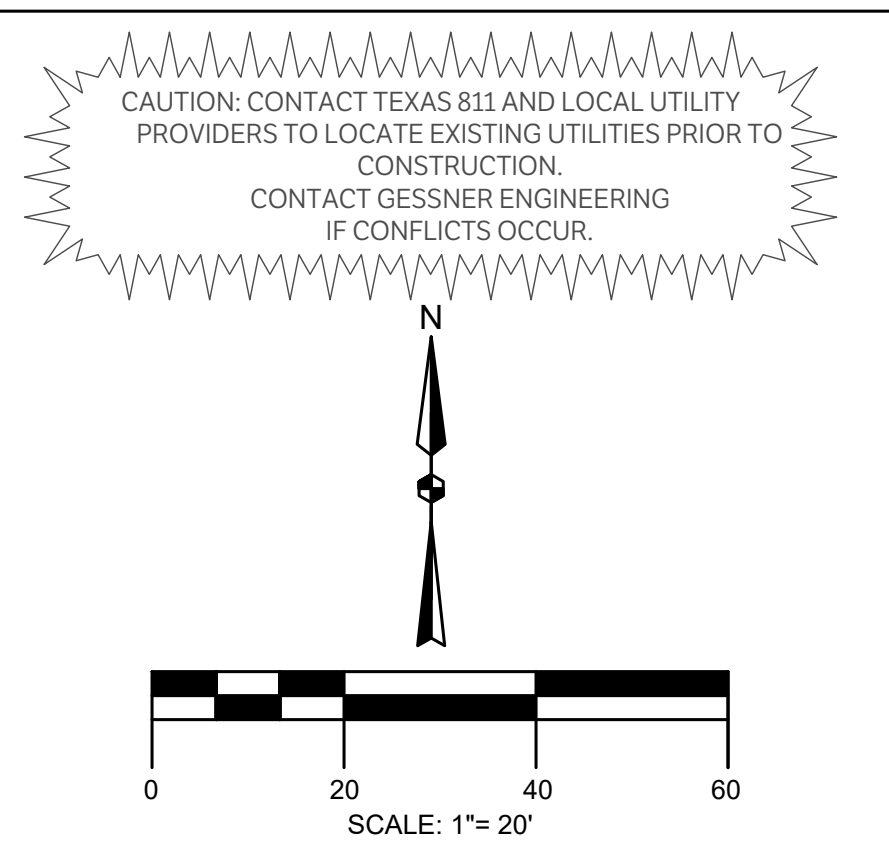
**EXISTING  
CONDITIONS & DEMO  
PLAN**

C300

CHECKED BY:  
SH & AL  
DRAWN BY:  
JC



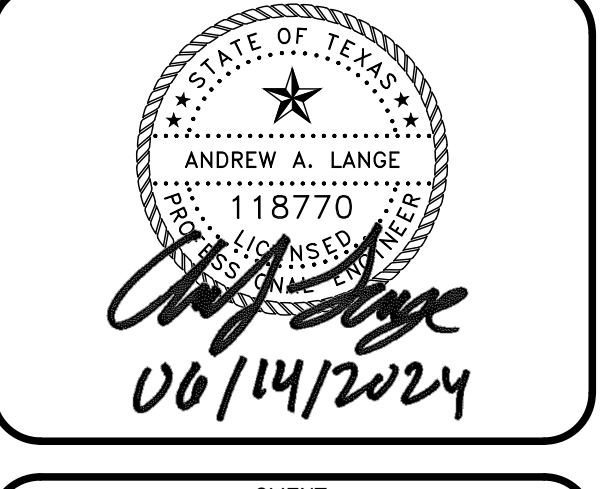
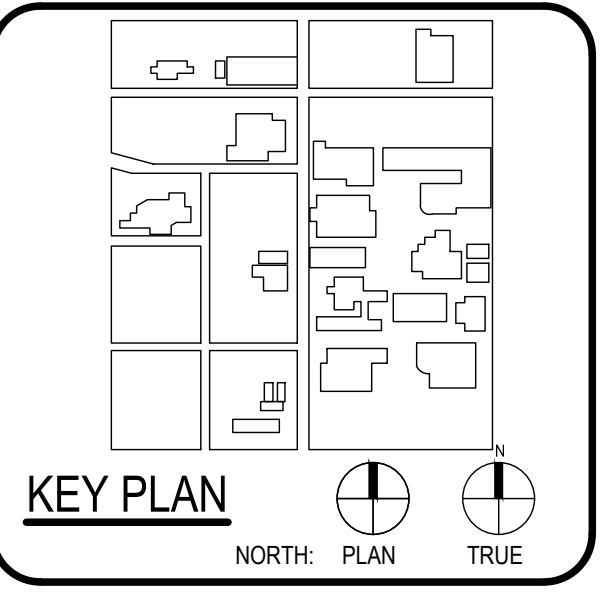
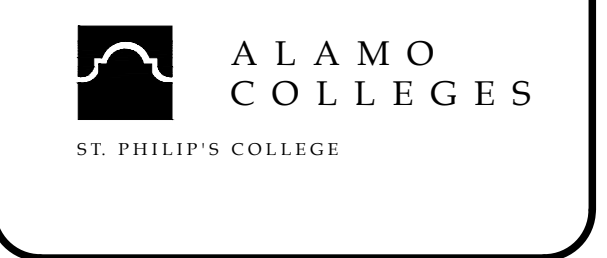
FOR BLUEBERRY LABELLING COOR.  
 Sheet Grids Template  
 Z400  
**ISSUE FOR CONSTRUCTION**



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	TR 128.08
LANDSCAPE ARCHITECT	TR 128.08
ENGINEER	TR 128.08
MECHANICAL ENGINEER	TR 128.08
ELECTRICAL ENGINEER	TR 128.08
PLUMBING ENGINEER	TR 128.08
MECHANICAL ENGINEER	TR 128.08
ELECTRICAL ENGINEER	TR 128.08
PLUMBING ENGINEER	TR 128.08
MECHANICAL ENGINEER	TR 128.08
ELECTRICAL ENGINEER	TR 128.08
PLUMBING ENGINEER	TR 128.08

**LEGEND**

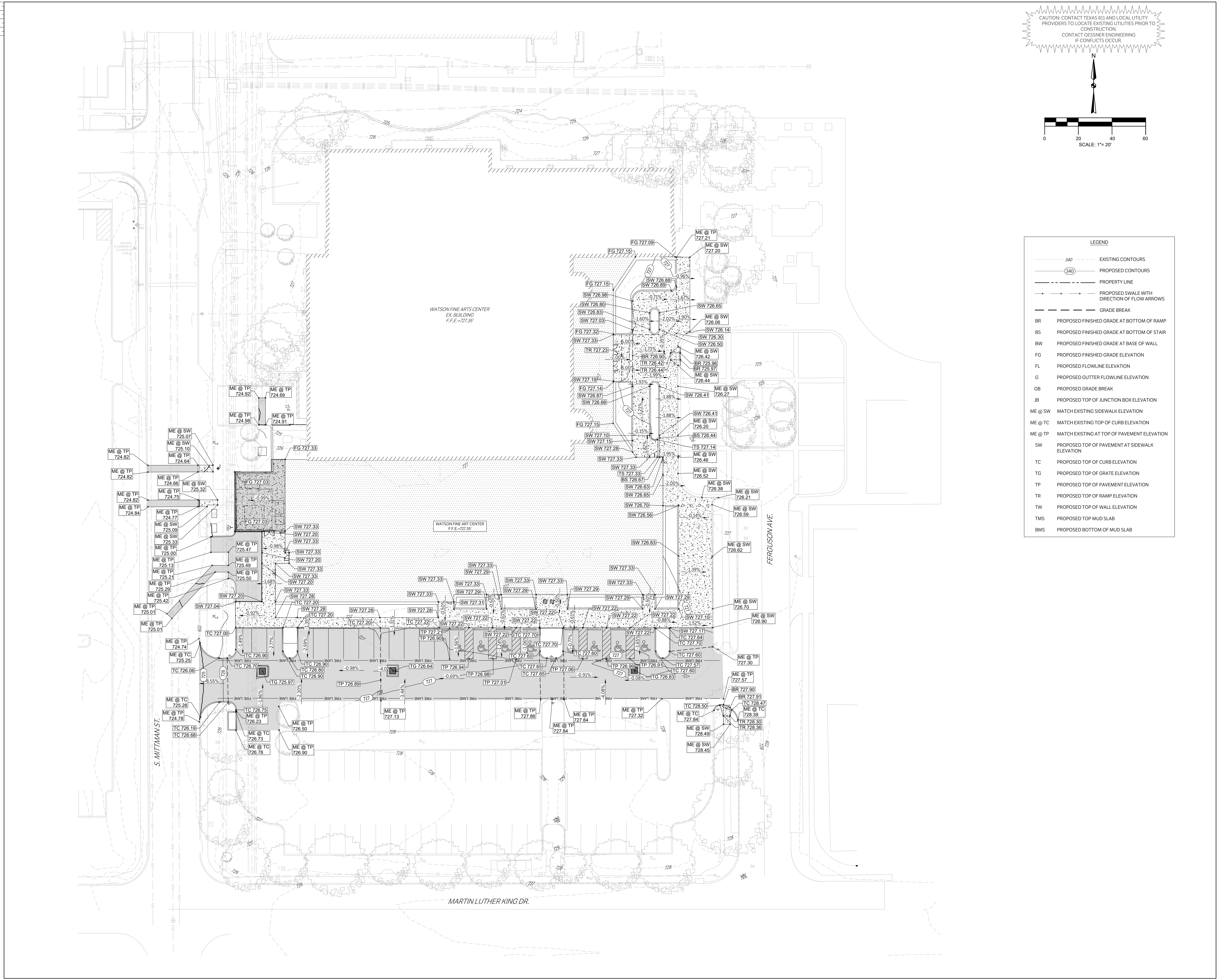
- 340 --- EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- - - - - PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
- FG PROPOSED FINISHED 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



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

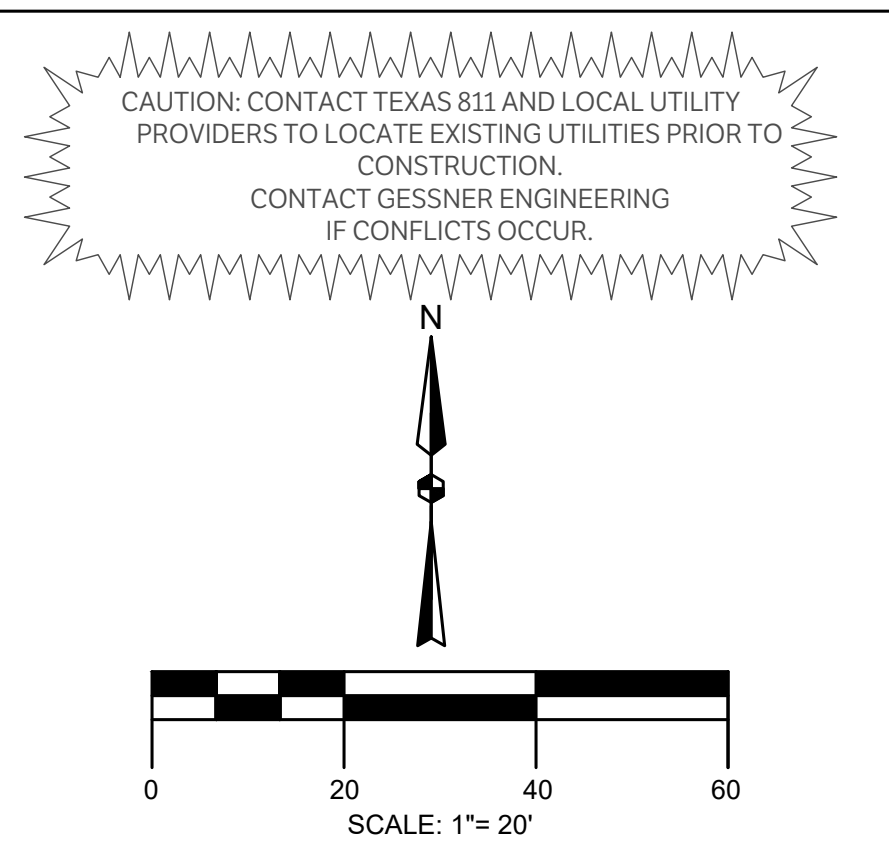
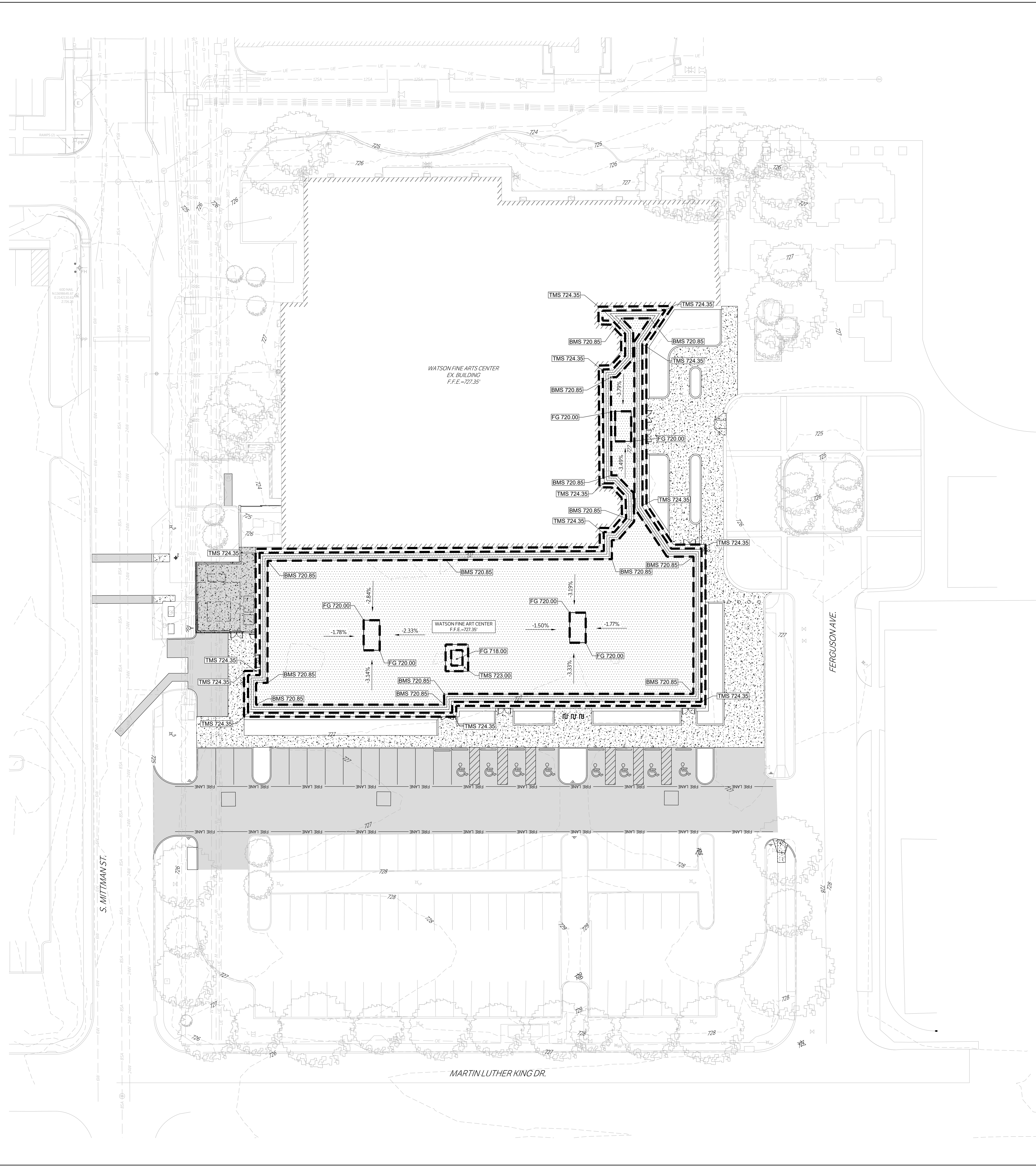
ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER  
**GRADING PLAN**

**C400**



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 DRAWN BY: JC

# ISSUE FOR CONSTRUCTION



**LEGEND**

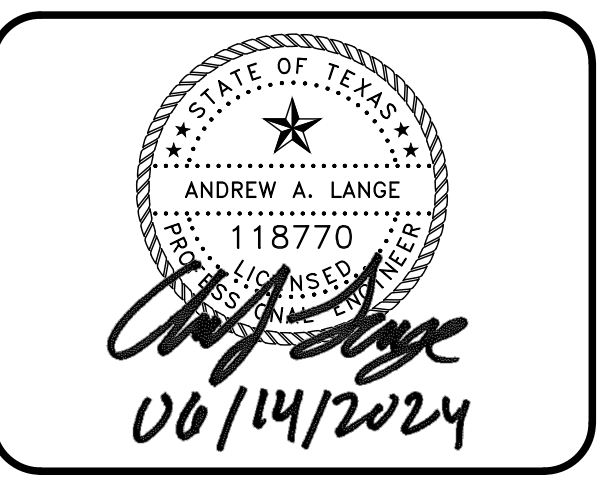
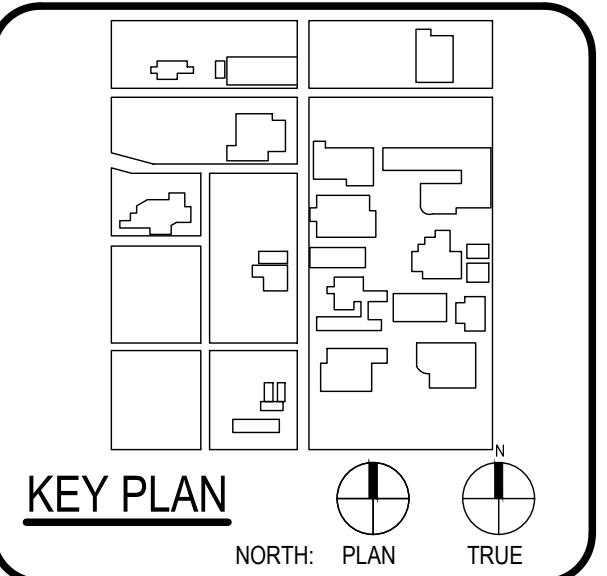
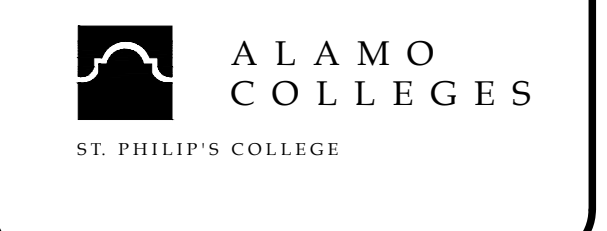
- 340 --- EXISTING CONTOURS
- (340) PROPOSED CONTOURS
- PROPERTY LINE
- PROPOSED SWALE WITH DIRECTION OF FLOW ARROWS
- GRADE BREAK
- BR PROPOSED FINISHED GRADE AT BOTTOM OF RAMP
- BS PROPOSED FINISHED GRADE AT BOTTOM OF STAIR
- BW PROPOSED FINISHED GRADE AT BASE OF WALL
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- TMS PROPOSED TOP MUD SLAB
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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	
ARCHITECT	BA & ARCHITECTS
2101 BRUNNEN LANDSCAPE 113140102 LUNDY & HARRIS ENGINEERING 113140102 MEP NEAR PROFESSIONALS 113140102 MEP 1208491860	

**WFAC Black Box Addition PKG 1**

600 S. Mittman 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**

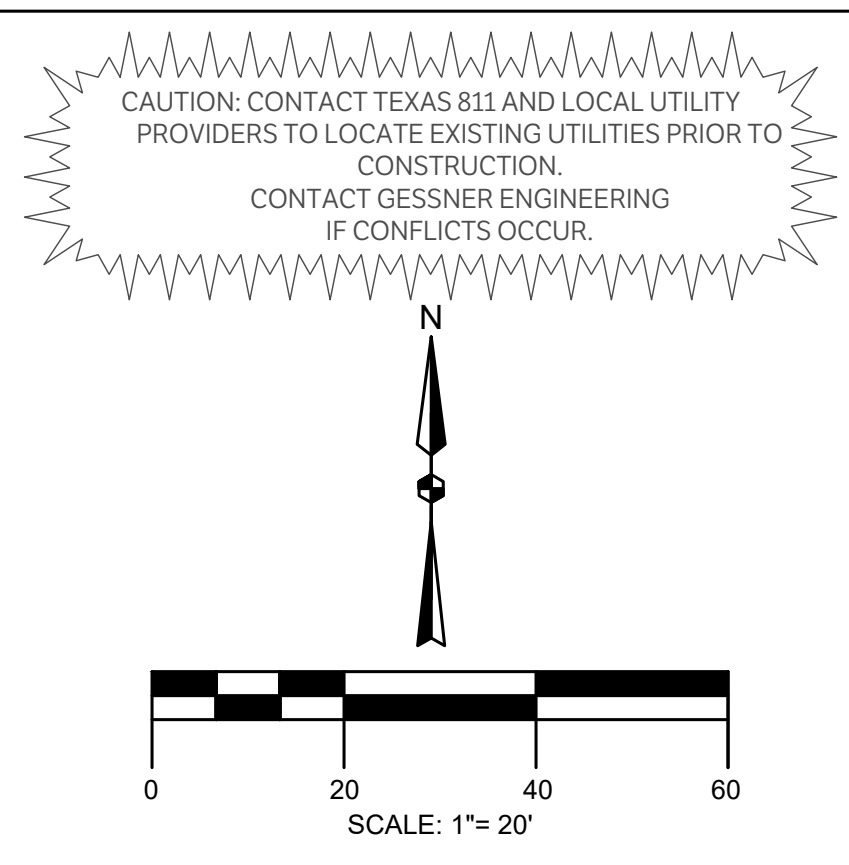
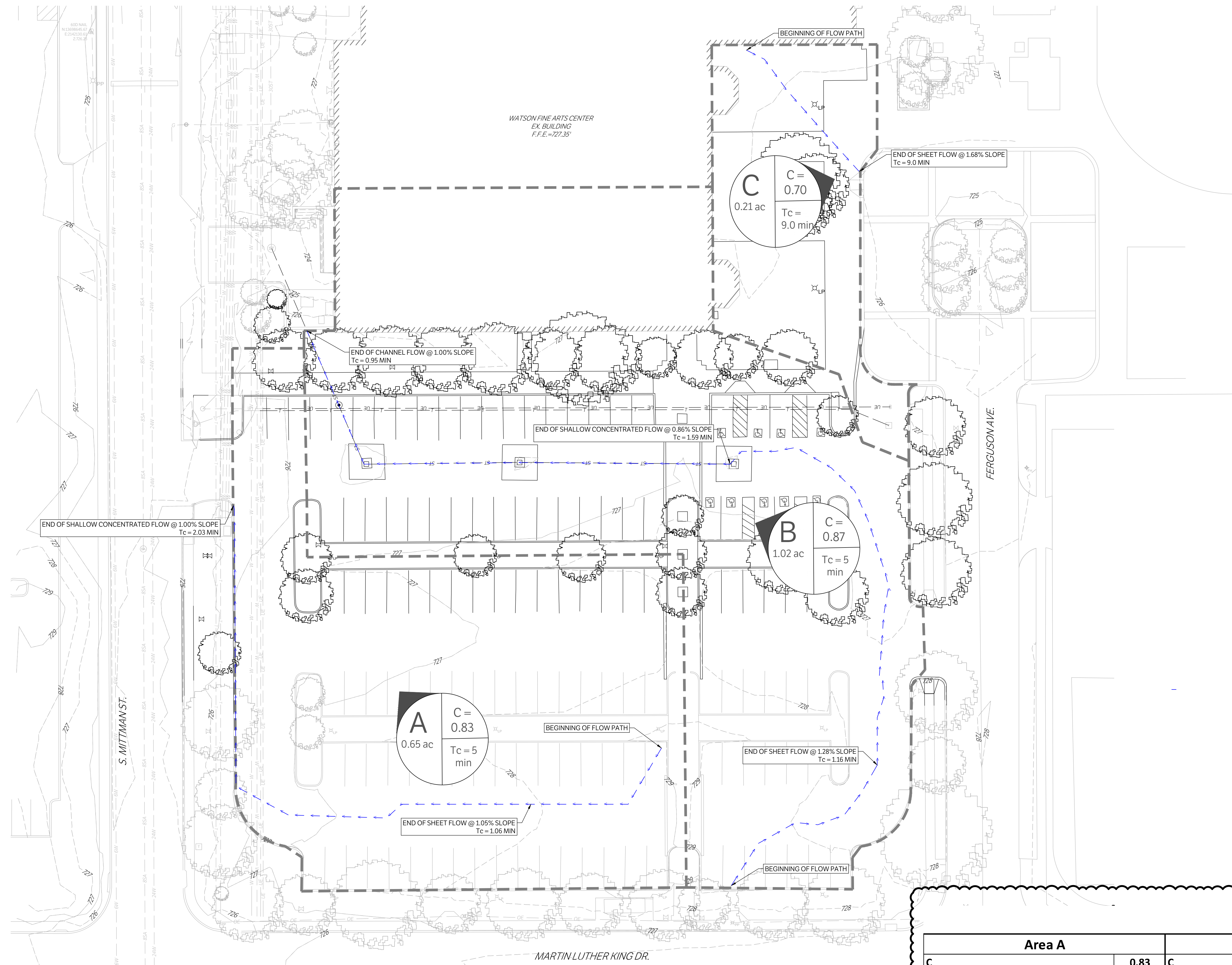
BUILDING NUMBER

**CRAWLSPACE**

**C401**

# ISSUE FOR PERMIT

Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.



**LEGEND**

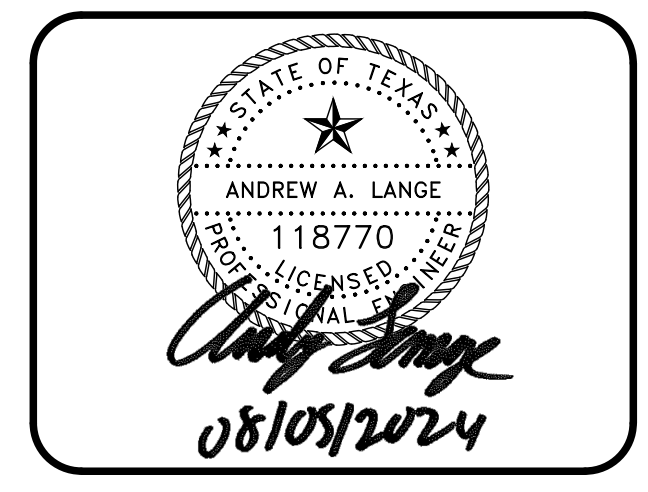
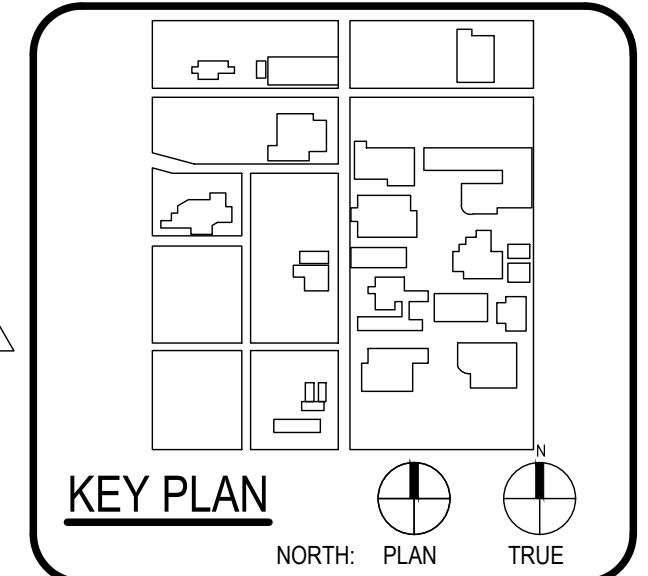
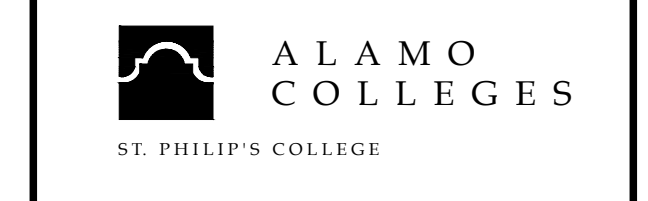
- DRAINAGE AREA BOUNDARY
- A1 DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- FLOW PATH



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

**WFAC Black Box Addition PKG 1**

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



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

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

**ISSUE FOR PERMIT**

BUILDING NUMBER

**PRE DRAINAGE AREA MAP**

**C500**

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
<b>TOTAL</b>			<b>28476.40</b>	<b>0.65</b>	<b>0.55</b>
					<b>C 0.83</b>

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
<b>TOTAL</b>			<b>44490.68</b>	<b>1.02</b>	<b>0.89</b>
					<b>C 0.87</b>

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
<b>TOTAL</b>			<b>9158.39</b>	<b>0.21</b>	<b>0.15</b>
					<b>C 0.70</b>

**PRE DEVELOPMENT PEAK RUNOFF**

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

**Atlas 14 Rainfall Intensity (in/hr)**

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

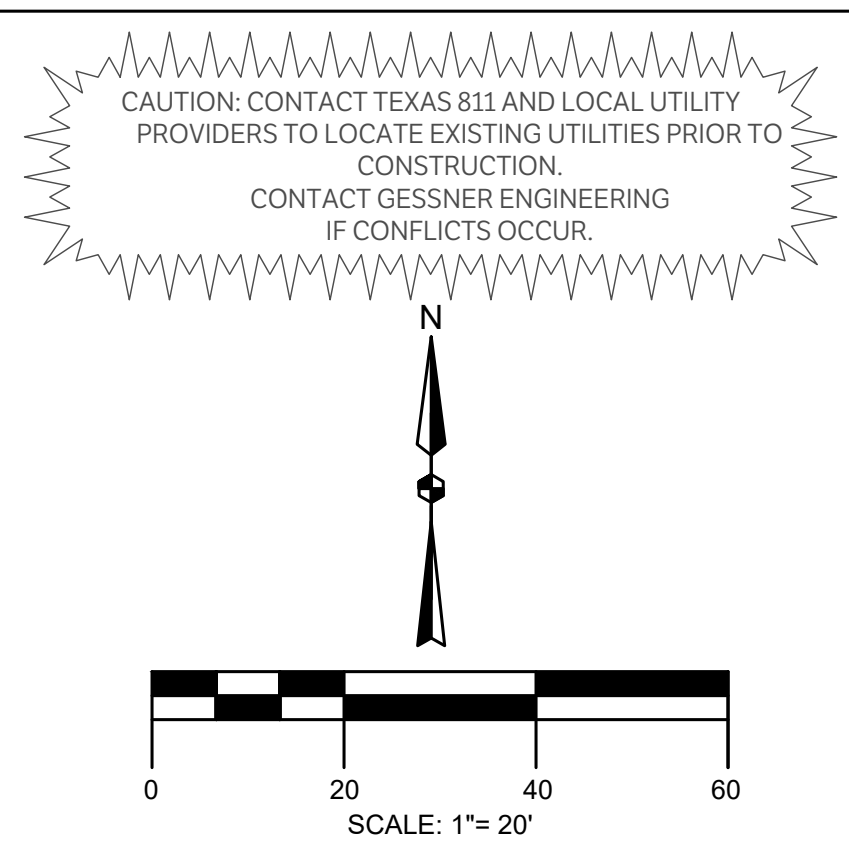
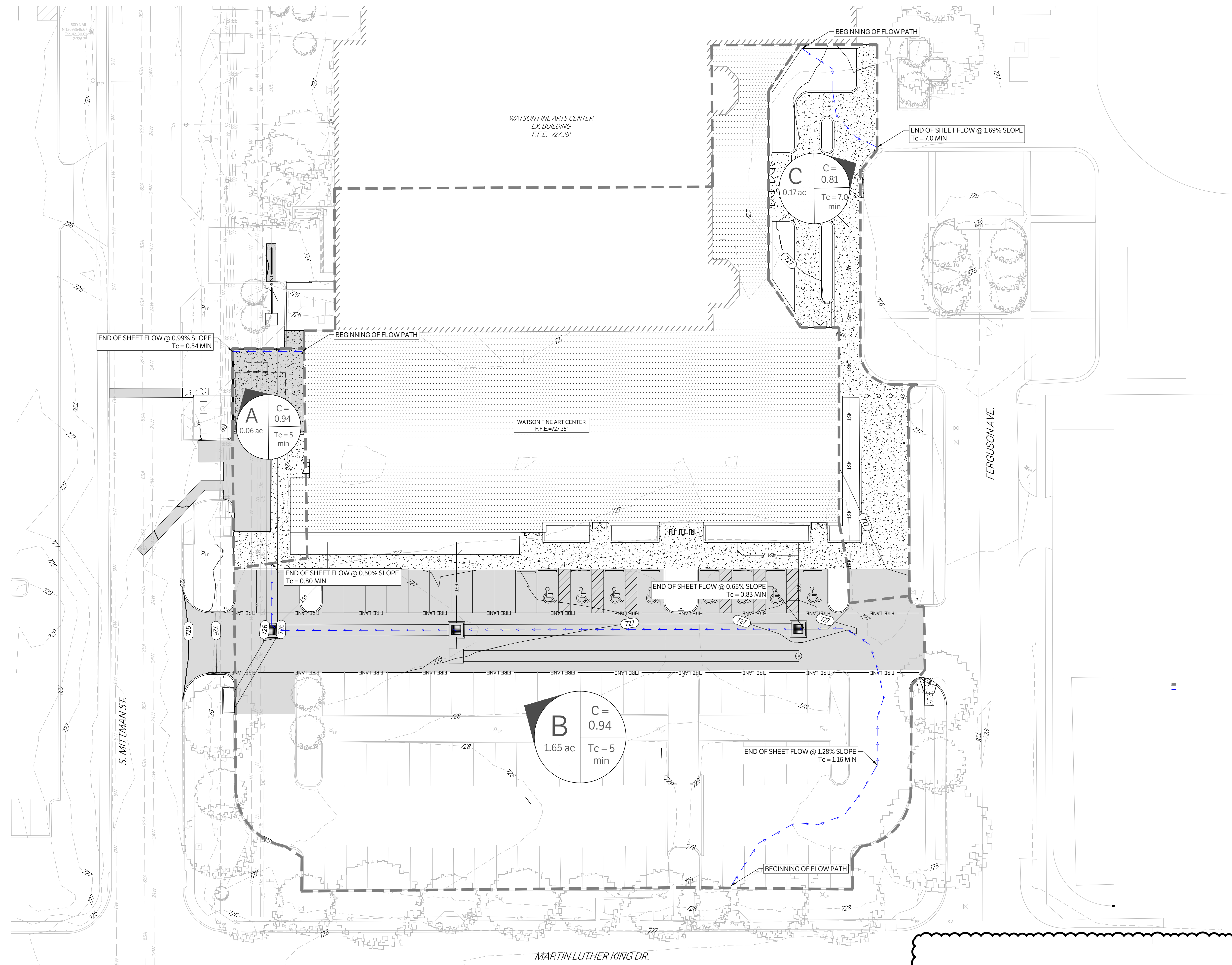
**Pre**

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

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DRAWN BY: JC

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Z400  
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**LEGEND**

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

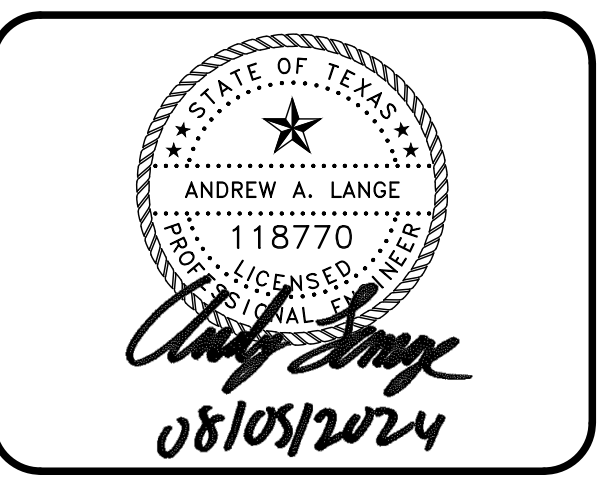
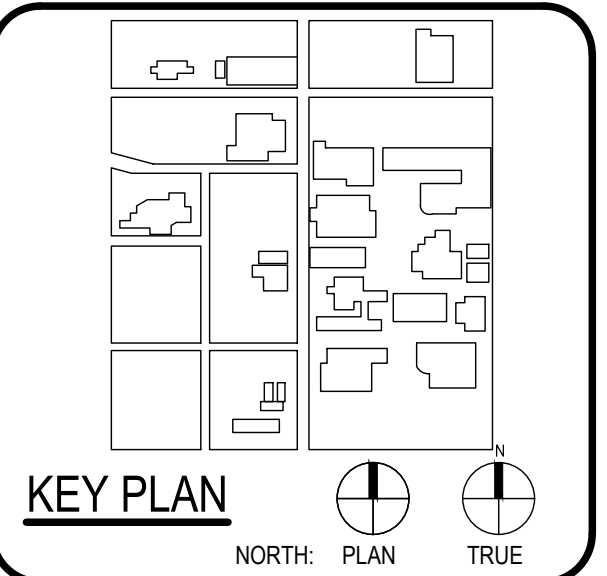
**Required Storage**

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



ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
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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

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

ISSUE FOR PERMIT  
BUILDING NUMBER

POST DRAINAGE AREA MAP

C501

**POST AREA A**

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

**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
<b>TOTAL</b>			<b>71900.67</b>	<b>1.65</b>	<b>1.50</b>
			<b>C</b>		<b>0.91</b>

**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
<b>TOTAL</b>			<b>7469.26</b>	<b>0.17</b>	<b>0.14</b>
			<b>C</b>		<b>0.81</b>

**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

**Atlas 14 Rainfall Intensity (in/hr)**

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

**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*			

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DRAWN BY: JC

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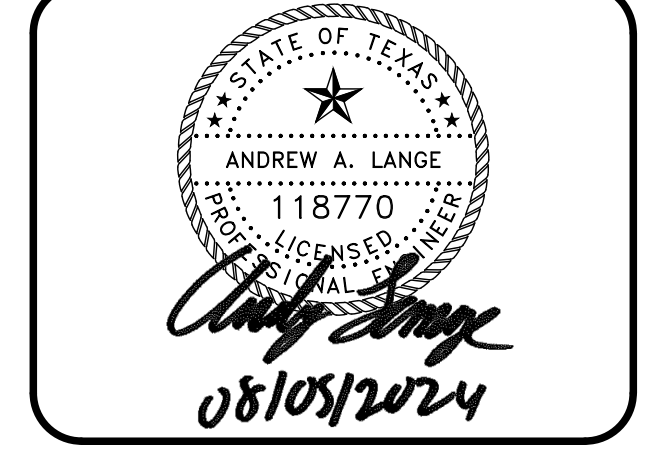
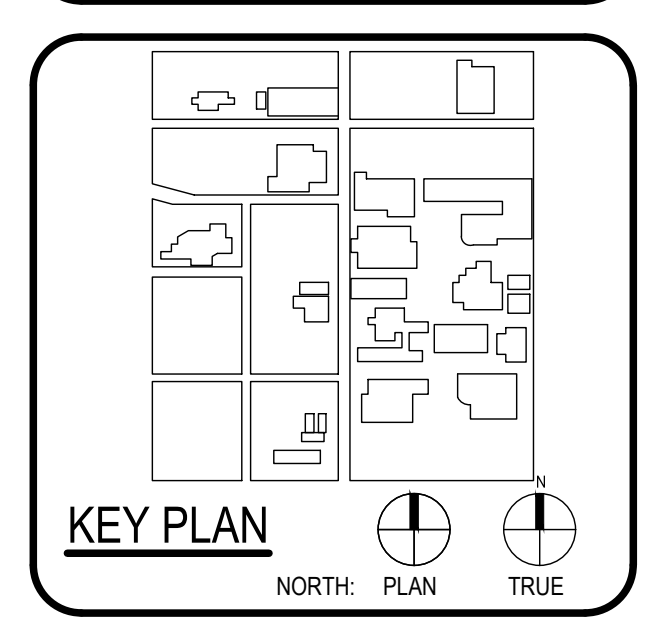
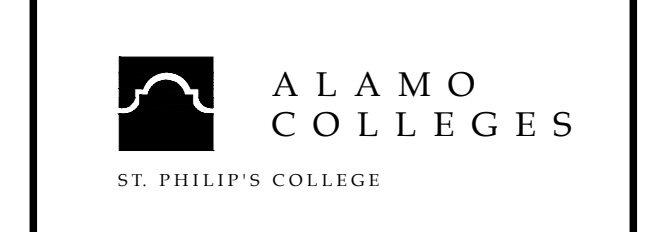
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.  
 CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



ARCHITECT	PBK Architects, Inc.
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210-829-0123 P	210-829-0578 F
TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
1301 S. W. Loop	
LANDSCAPE	
DESIGN GROUP	
1111 W. Loop	
ENGINEERING	
1111 W. Loop	
PROVIDER	
MEAN PROJECTS	
1111 W. Loop	
1111 W. Loop	
1111 W. Loop	

**WFAC Black Box Addition PKG 1**

600 S. Miltman St.  
 San Antonio, TX 78203  
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PROJECT NUMBER	230462

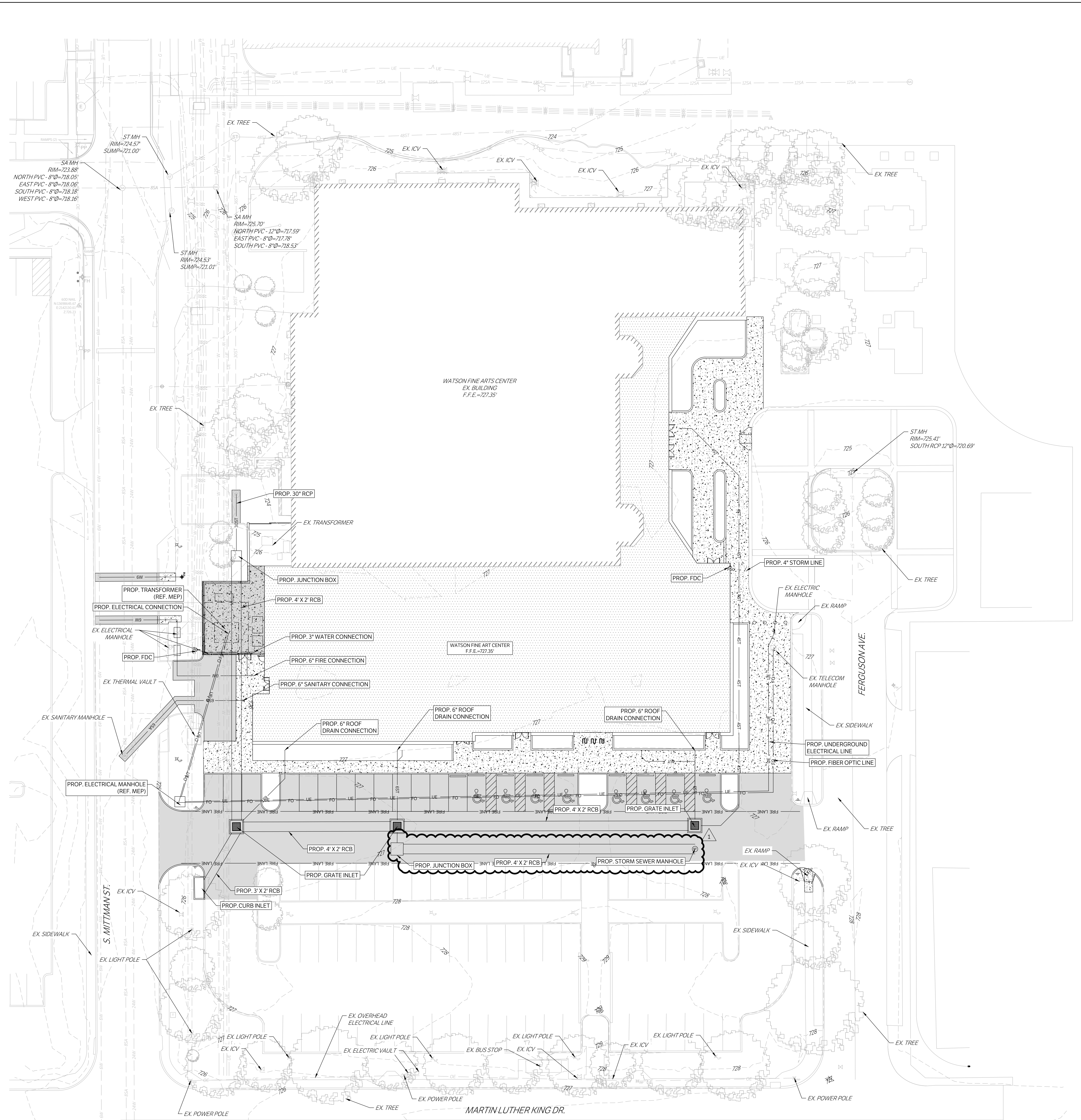
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

BUILDING NUMBER

**OVERALL UTILITY**

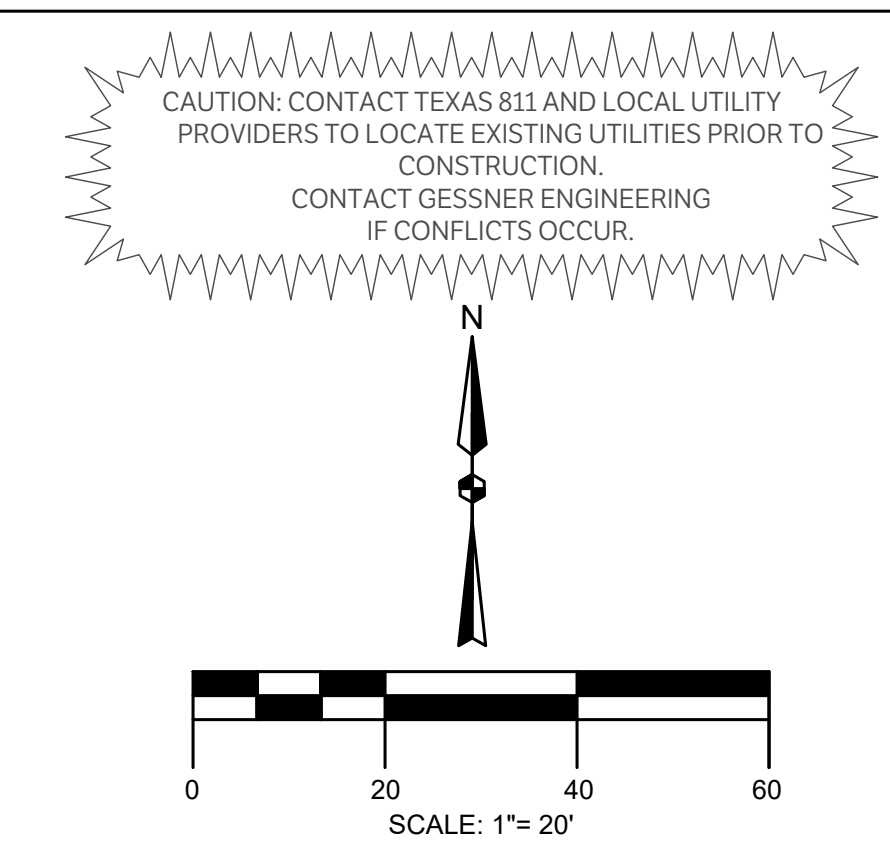
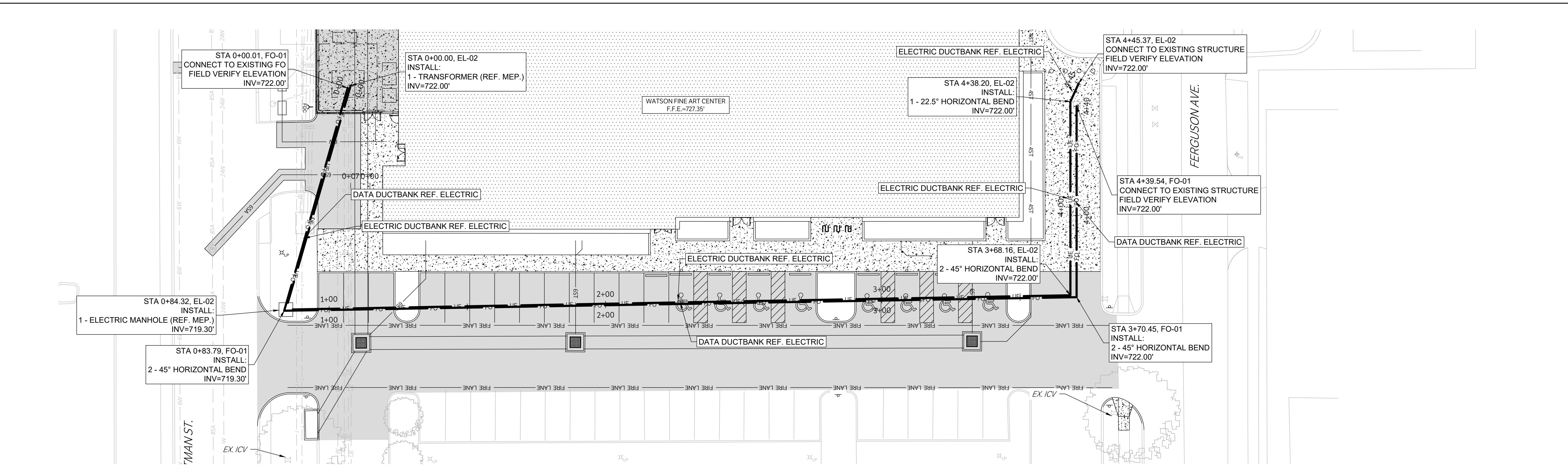
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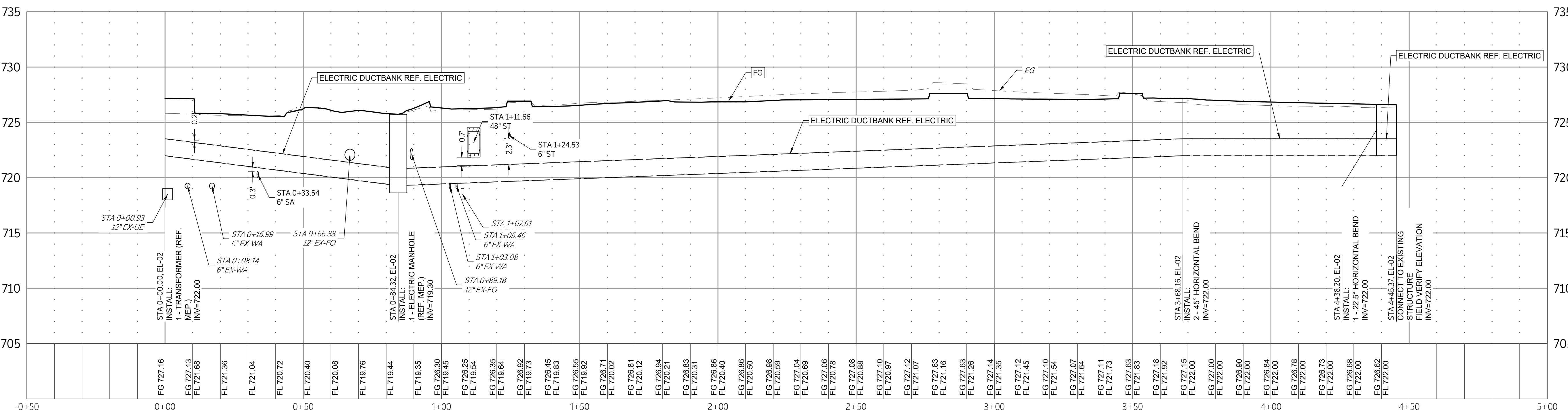
**LEGEND**

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[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. DATA/TELECOM
[Symbol]	EX.   PROP. UNDERGROUND ELECTRIC
[Symbol]	EX.   PROP. FIBER OPTIC
[Symbol]	EX.   PROP. OVERHEAD ELECTRIC
[Symbol]	EX.   PROP. FIRE HYDRANT
[Symbol]	EX.   PROP. WATER METER
[Symbol]	EX.   PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX.   PROP. SANITARY SEWER MANHOLE
[Symbol]	EX.   PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX.   PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT

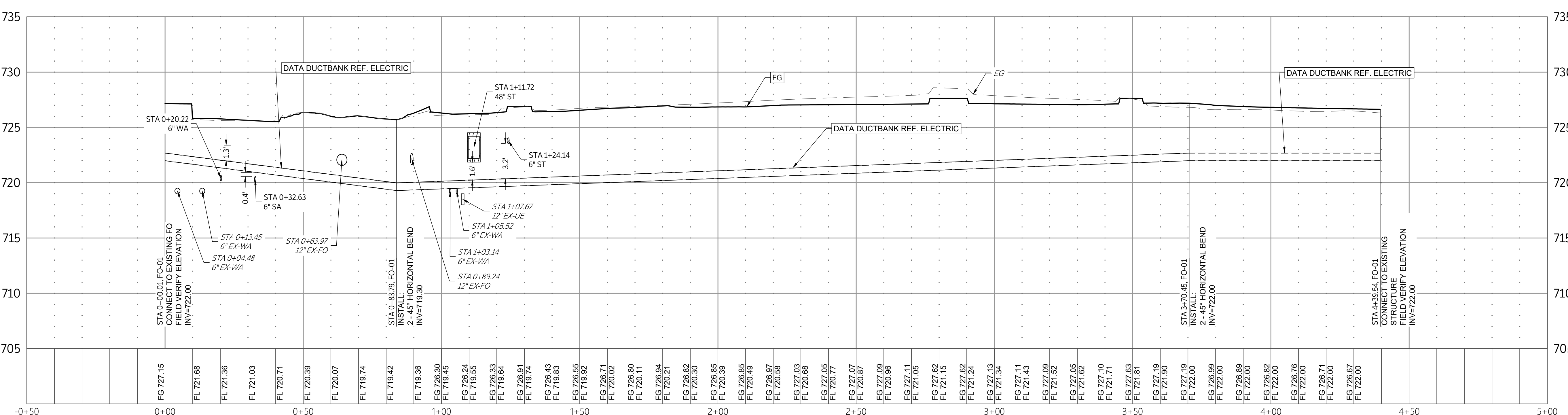
# ISSUE FOR CONSTRUCTION



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



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



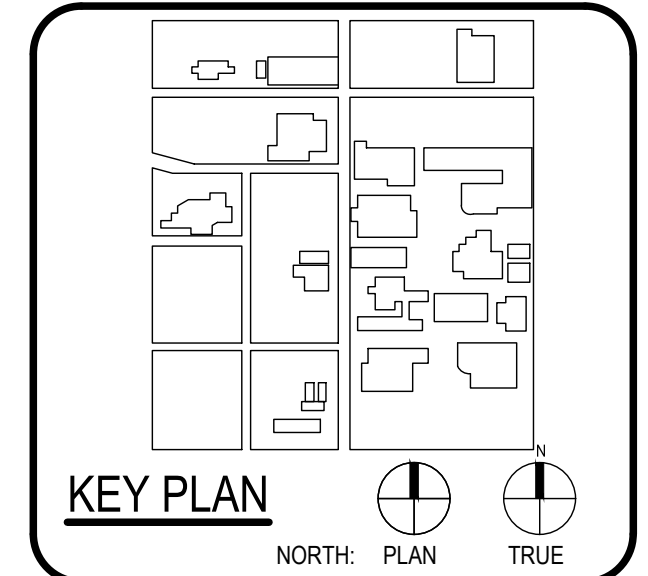
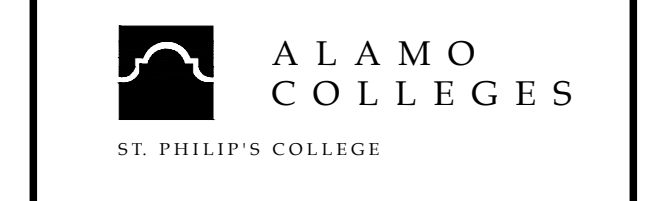
FO-01  
SCALE: 1"=20' H, 1"=5' V

LEGEND	
[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
[Symbol]	PROPOSED THERMALS
[Symbol]	EX.   PROP. GAS LINE
[Symbol]	EX.   PROP. DATA/TELECOM
[Symbol]	EX.   PROP. UNDERGROUND ELECTRIC
[Symbol]	EX.   PROP. FIBER OPTIC
[Symbol]	EX.   PROP. OVERHEAD ELECTRIC
[Symbol]	EX.   PROP. FIRE HYDRANT
[Symbol]	EX.   PROP. WATER METER
[Symbol]	EX.   PROP. GATE VALVE
[Symbol]	EX. IRRIGATION CONTROL VALVE
[Symbol]	PROP. FIRE DEPARTMENT CONNECTION
[Symbol]	PROP. POST INDICATOR VALVE
[Symbol]	PROP. HOSE LAY
[Symbol]	EX.   PROP. SANITARY SEWER MANHOLE
[Symbol]	EX.   PROP. SANITARY SEWER CLEANOUT
[Symbol]	EX. STORM SEWER MANHOLE
[Symbol]	PROP. STORM SEWER CURB INLET
[Symbol]	EX.   PROP. LIGHT POLE
[Symbol]	PROPOSED PUBLIC ACCESS EASEMENT
[Symbol]	PROPOSED UTILITY EASEMENT



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



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

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

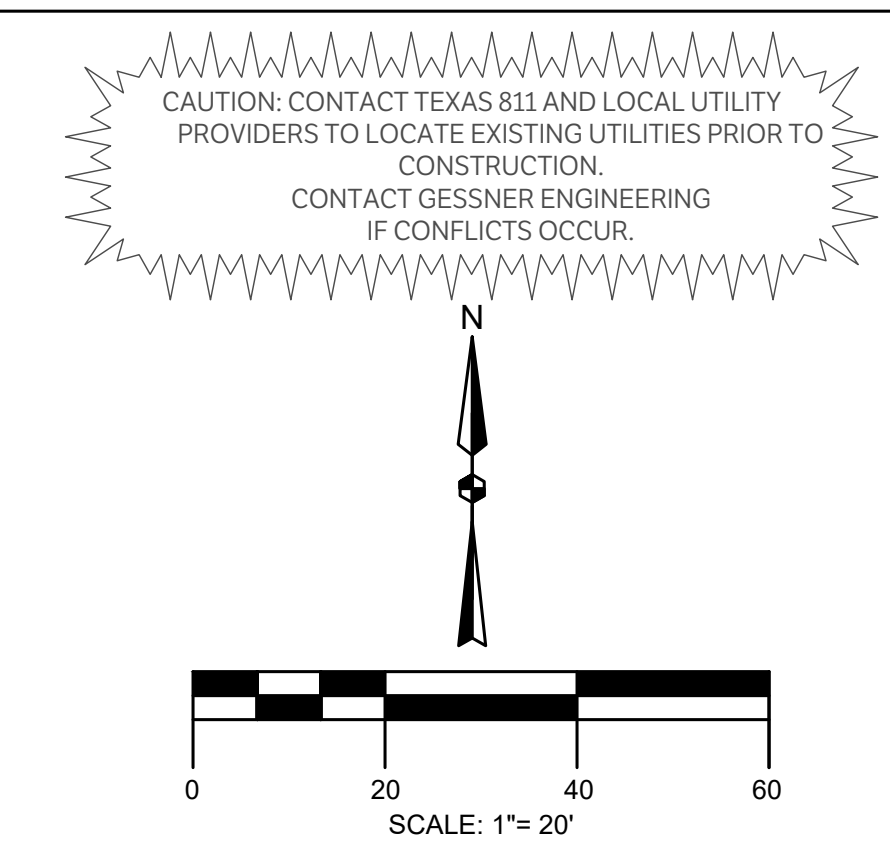
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

ELEC. & COMNS  
PLAN & PROFILES

C700

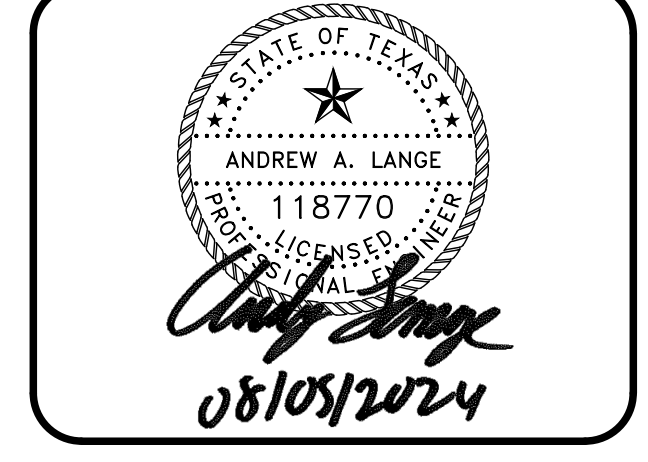
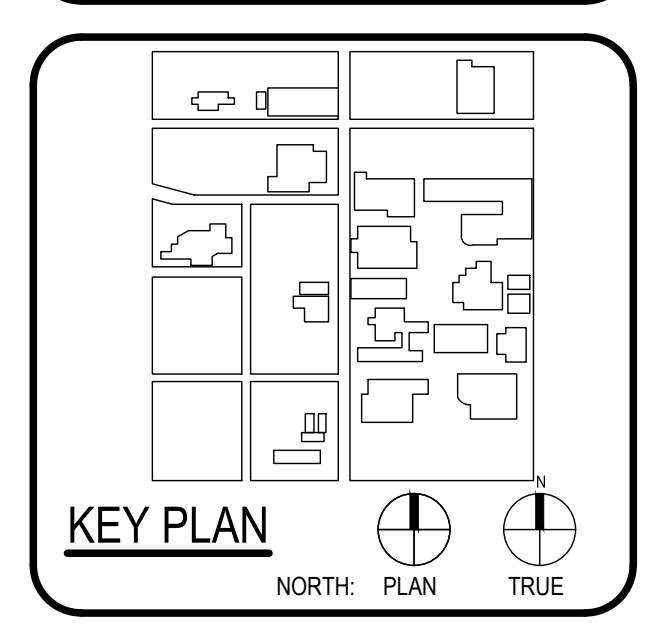
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FOR BLUEBAM LABELING CORR.

# ISSUE FOR PERMIT



ARCHITECT	PBK Architects, Inc.
PROJECT	WFAC Black Box Addition
DATE	08/05/2024
SCALE	1"=20'

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

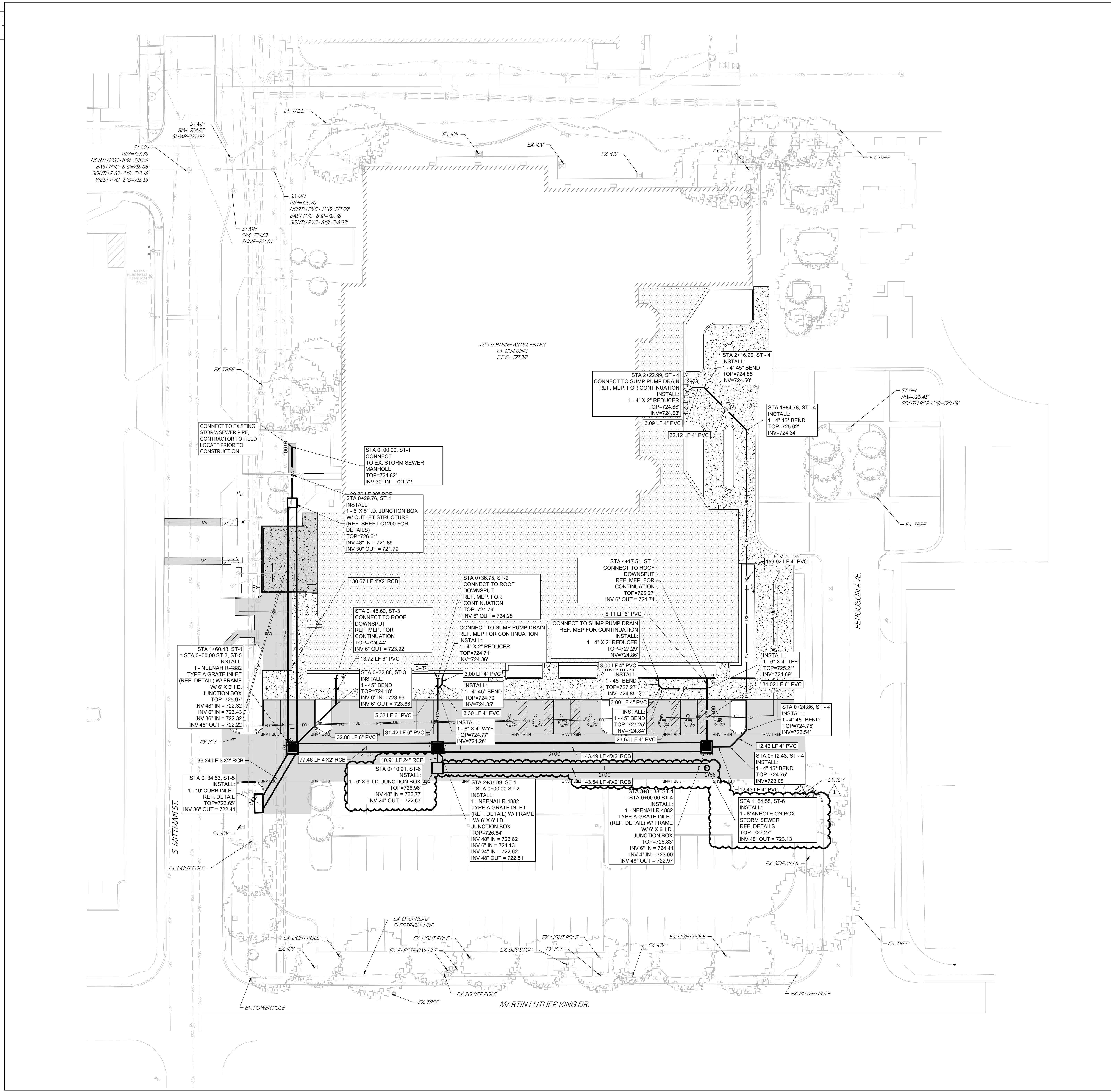


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

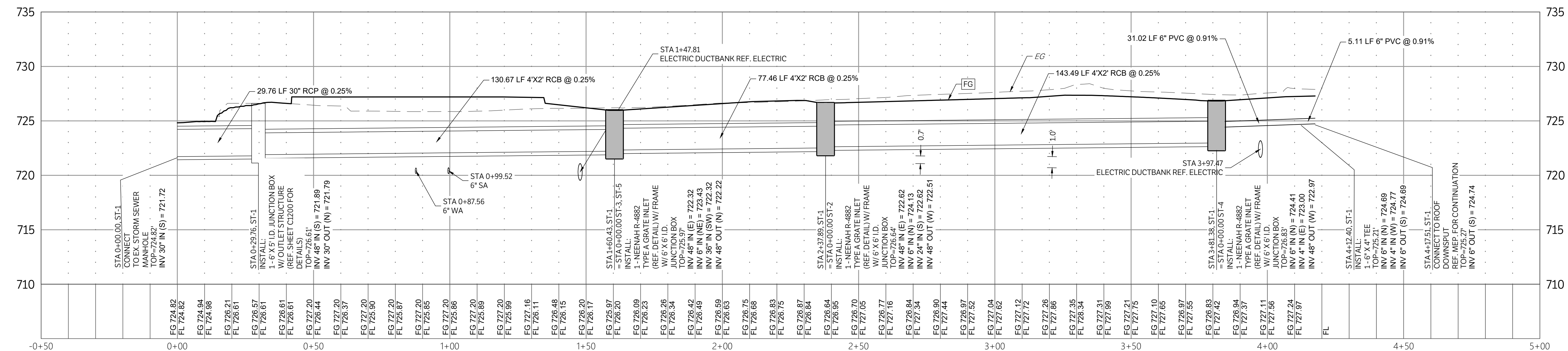
ISSUE FOR PERMIT  
BUILDING NUMBER

## STORM PLAN

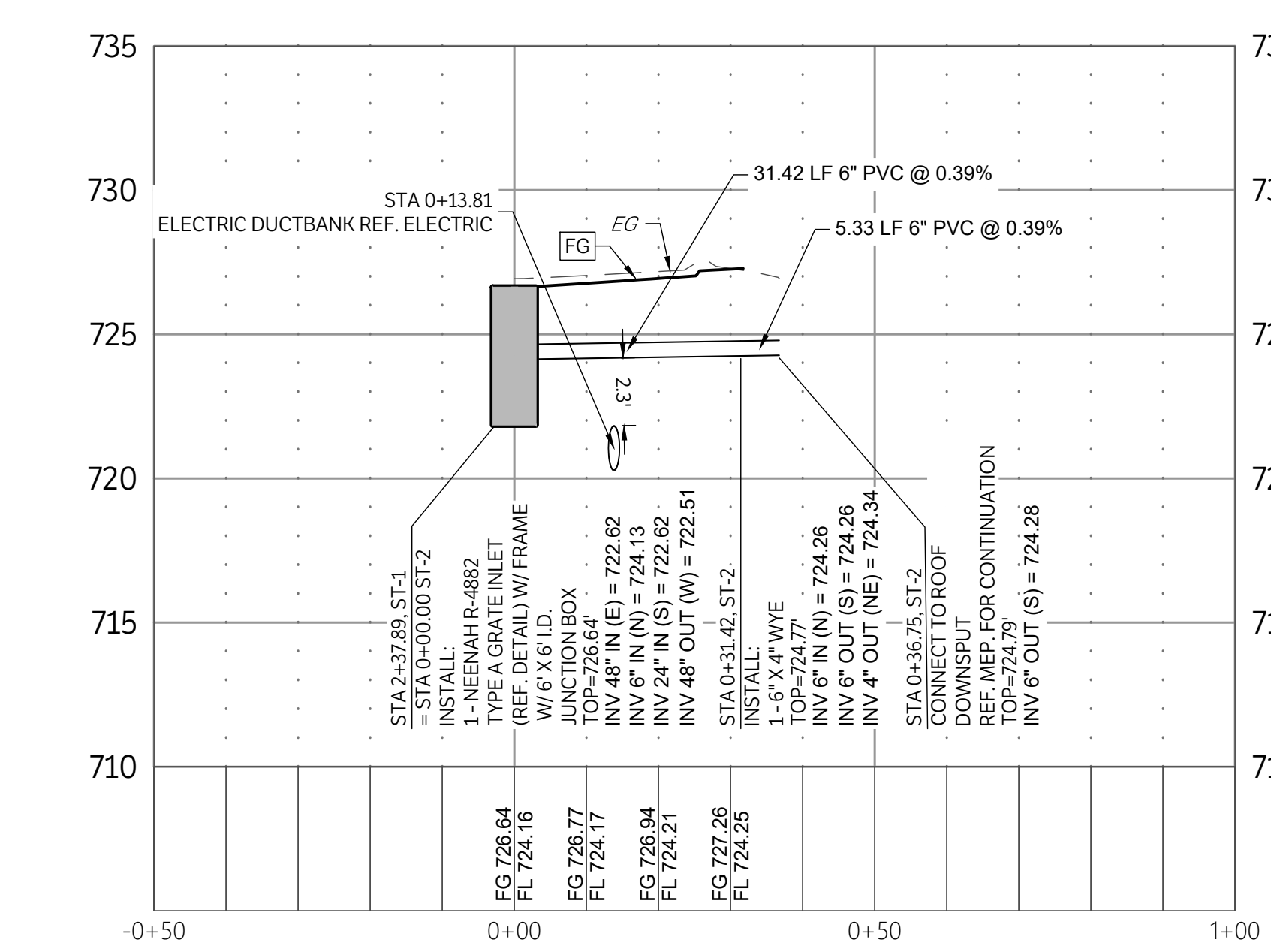
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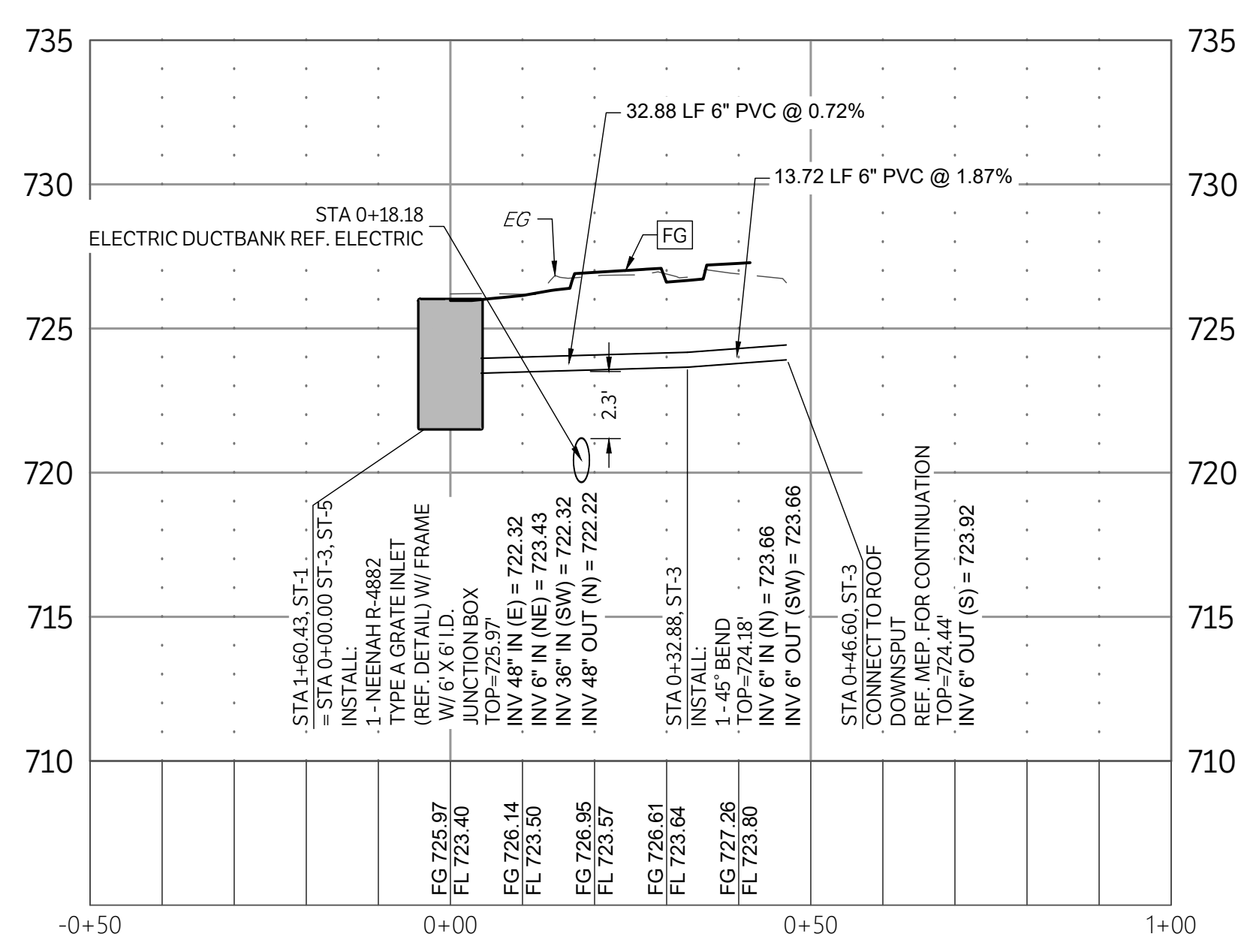
CHECKED BY: SH & AL  
DRAWN BY: JC



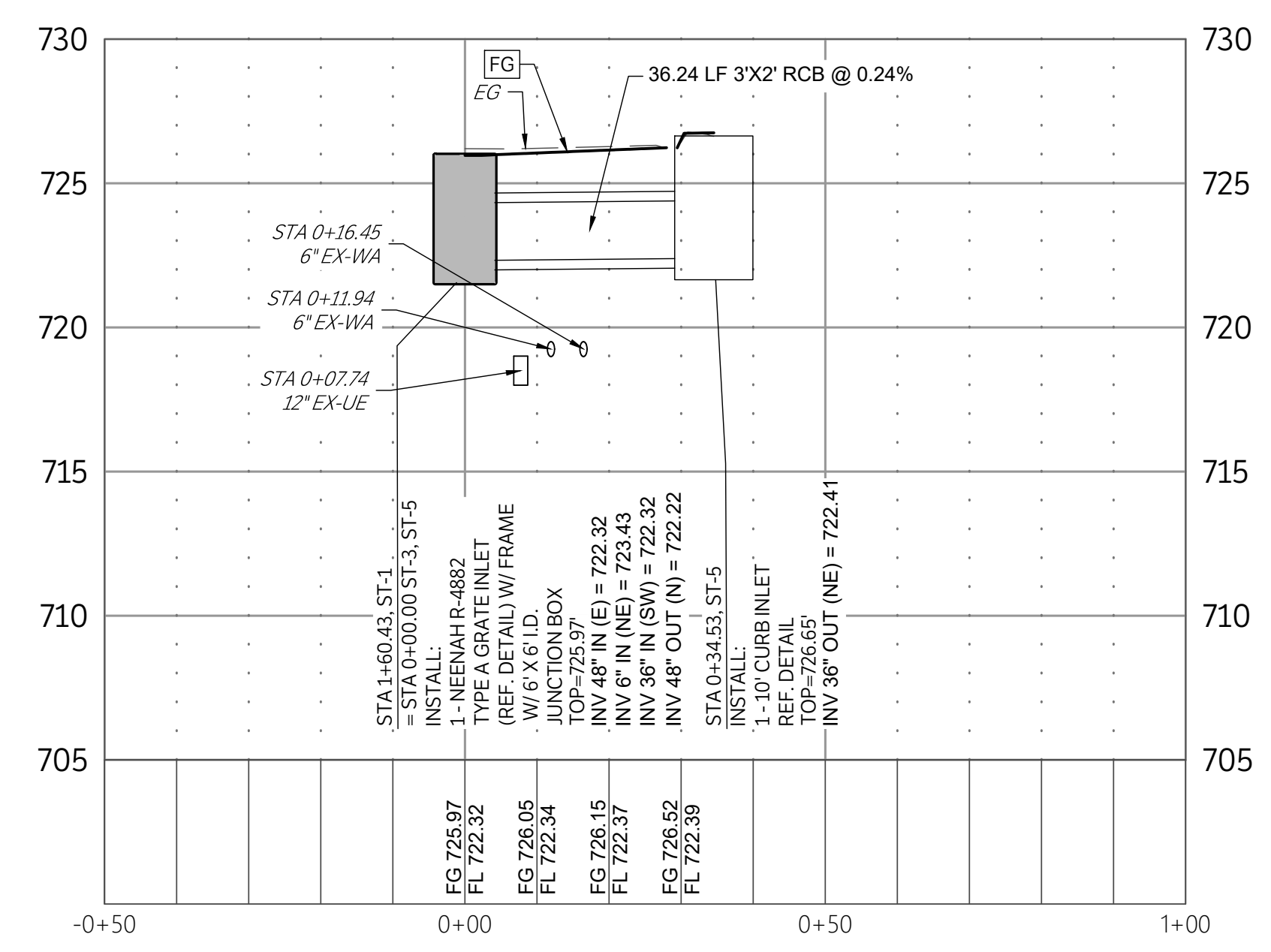
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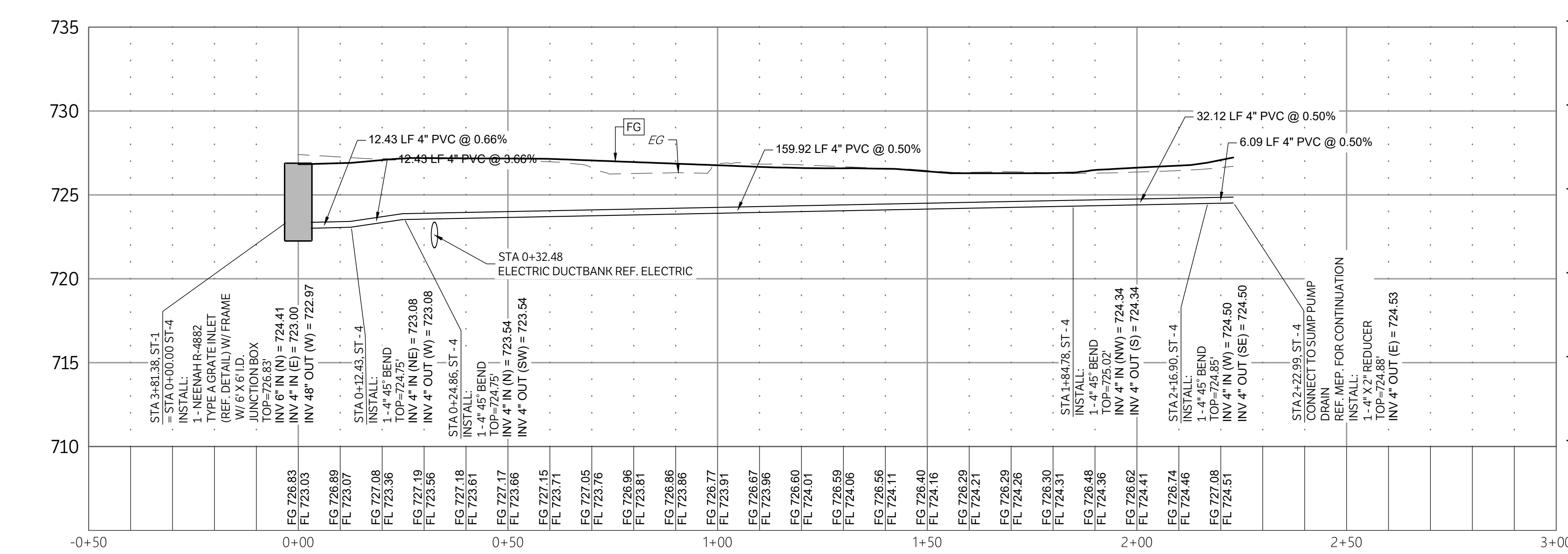
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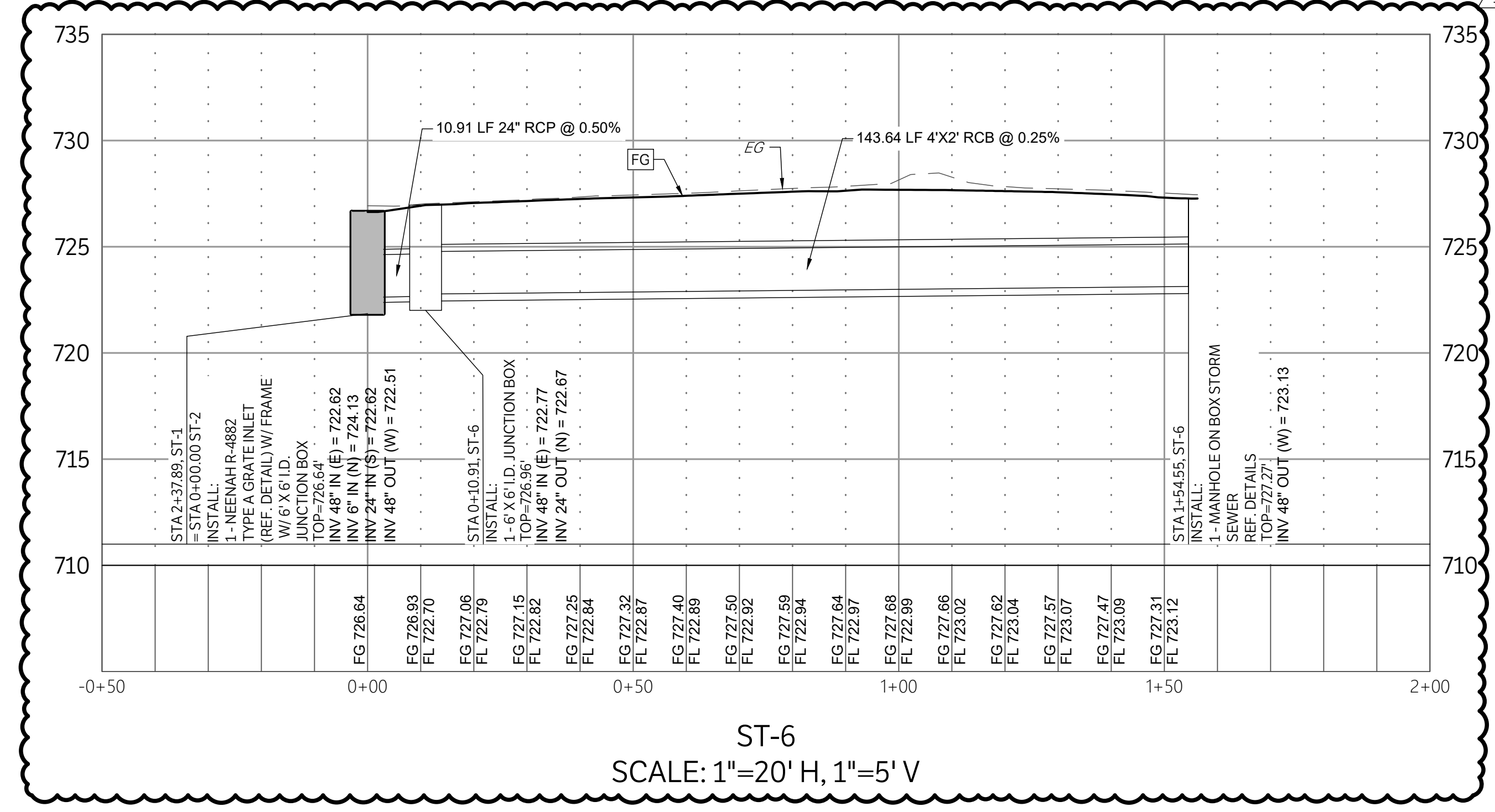
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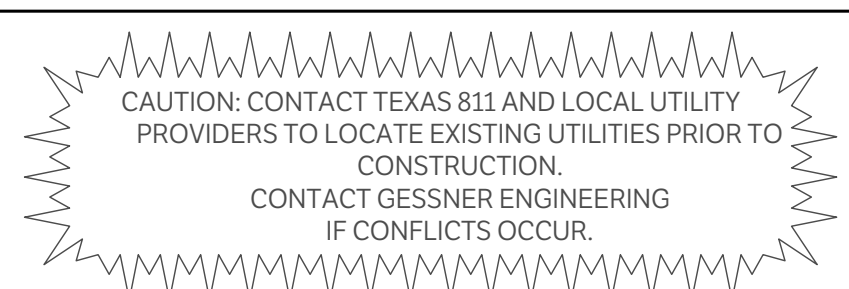
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SCALE: 1"=20' H, 1"=5' V



ST-4  
SCALE: 1"=20' H, 1"=5' V



ST-6  
SCALE: 1"=20' H, 1"=5' V

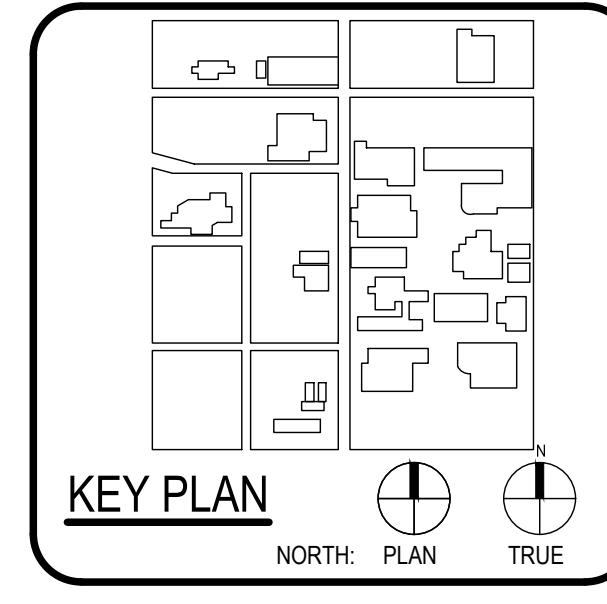


NOTE:  
CONTRACTOR TO FIELD VERIFY EXISTING  
UTILITY INVERTS PRIOR TO CONSTRUCTION



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	
DESIGNER	BA & ARCHITECTS
1301 BURNHAM LANDSCAPE DESIGN & DESIGN 1111 W. W. WALKER SAN ANTONIO, TX 78204	
ENGINEER	LUNY & HARRIS ENGINEERING
1100 W. WALKER SAN ANTONIO, TX 78204	
PROFESSOR	PROFESSOR
1100 W. WALKER SAN ANTONIO, TX 78204	

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



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

STORM PROFILES



# ISSUE FOR PERMIT

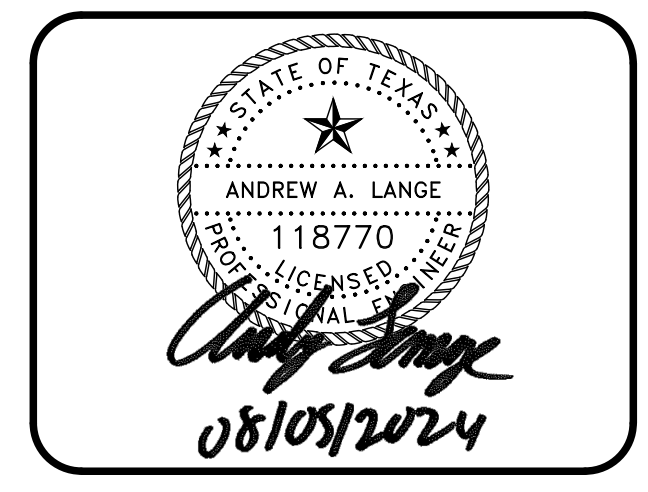
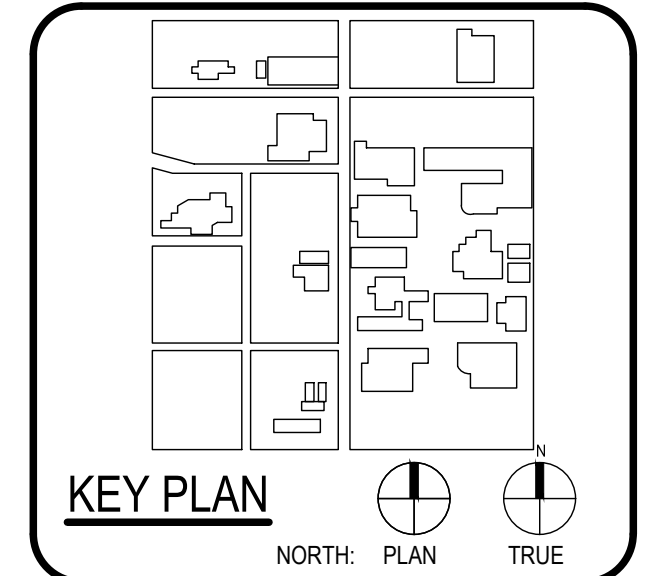
Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.

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
2101 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1133400000 1133400000 LUNDY & HARRIS ENGINEERING 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000 1133400000	

WFAC Black Box Addition PKG 1

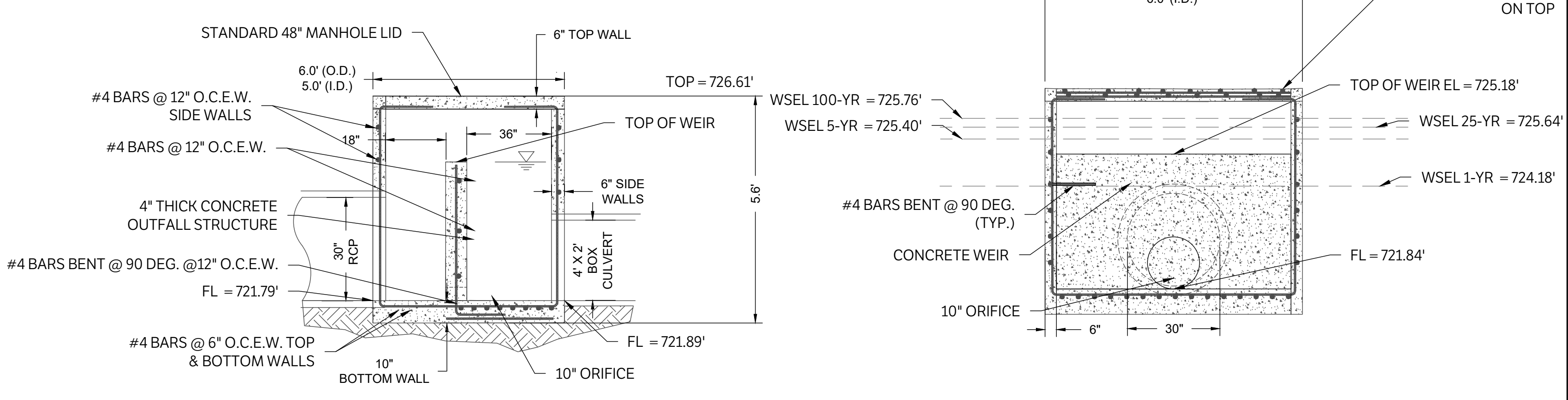
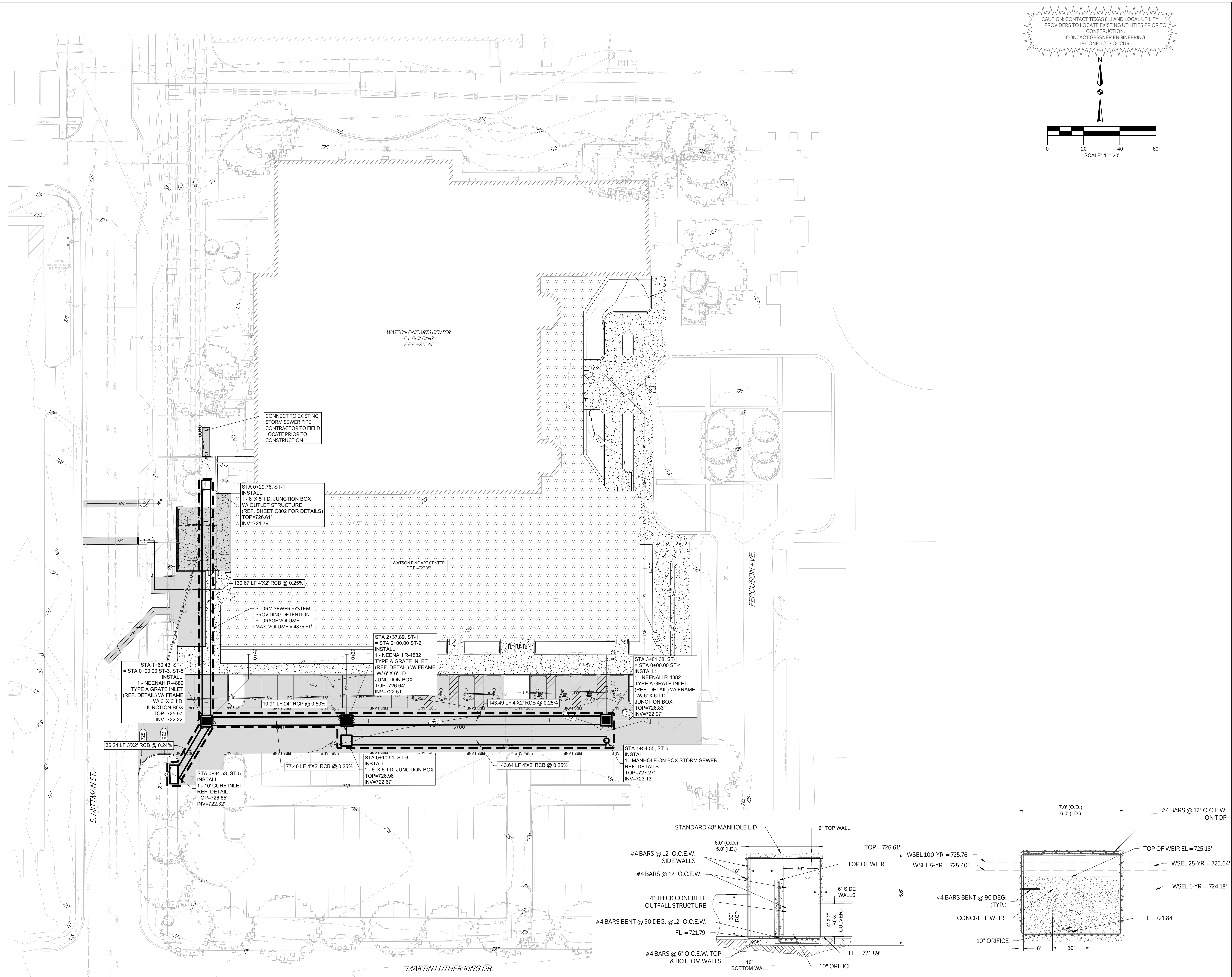


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT

DETENTION PLAN

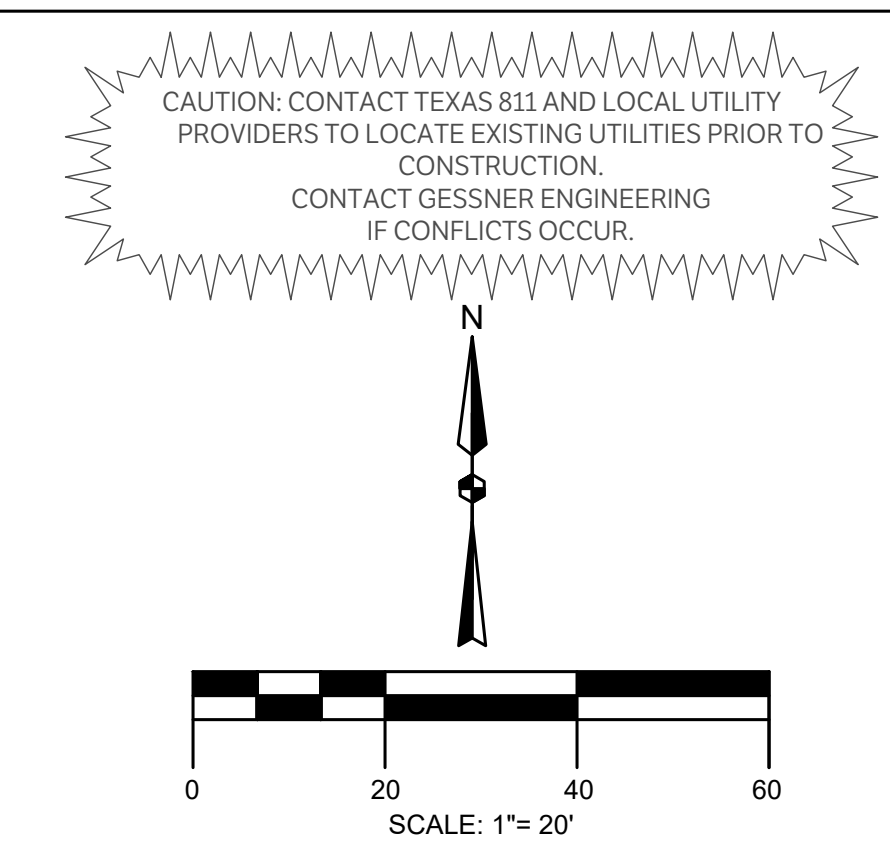
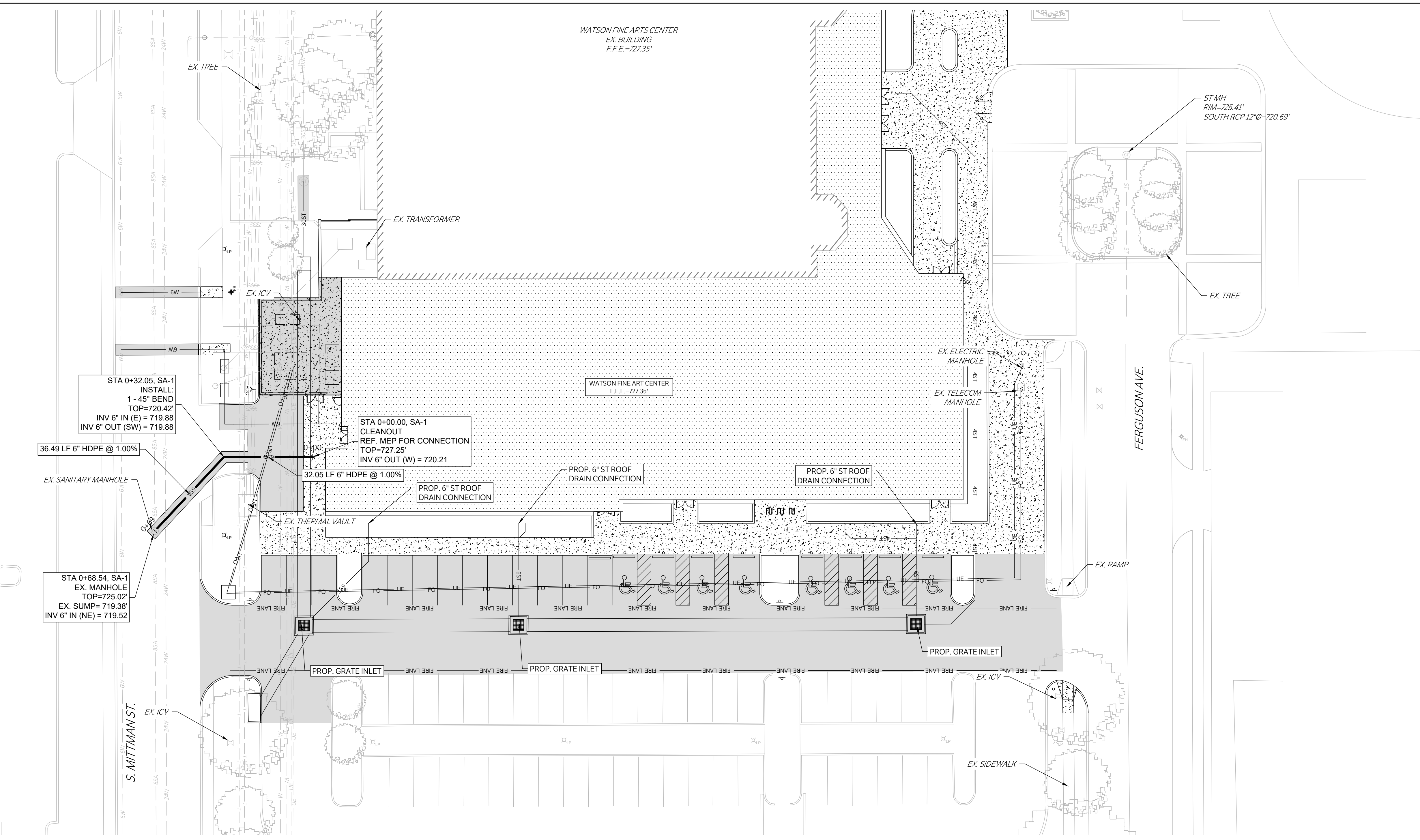
## C802



UNDERGROUND DETENTION OUTFALL STRUCTURE  
N.T.S.  
NOTES:  
1. ALL REINFORCEMENT BARS TO HAVE 2" OF CLEARANCE

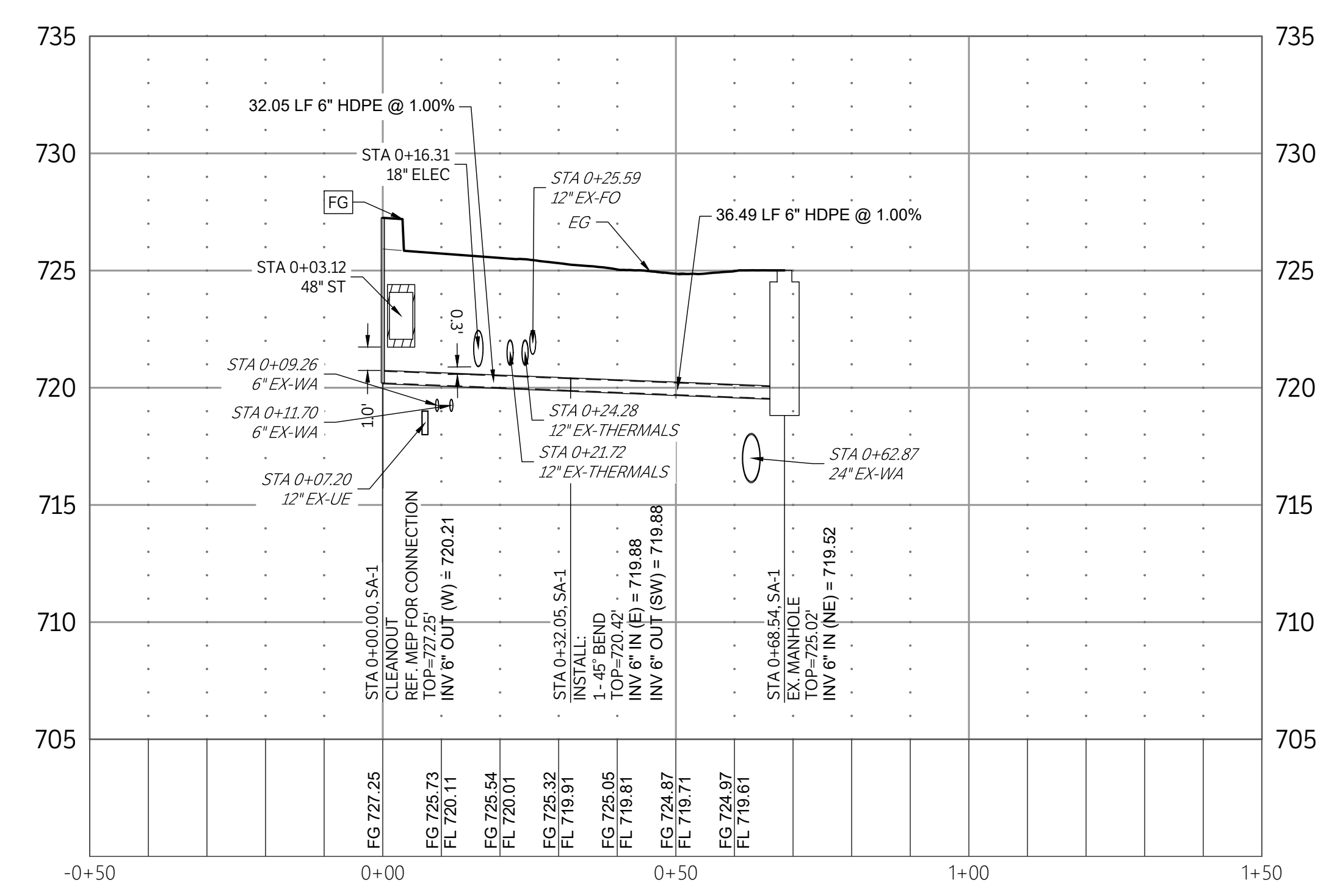
CHECKED BY: SH & AL  
DRAWN BY: JC

# ISSUE FOR CONSTRUCTION



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

LEGEND	
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STRUCTURAL PAVEMENT

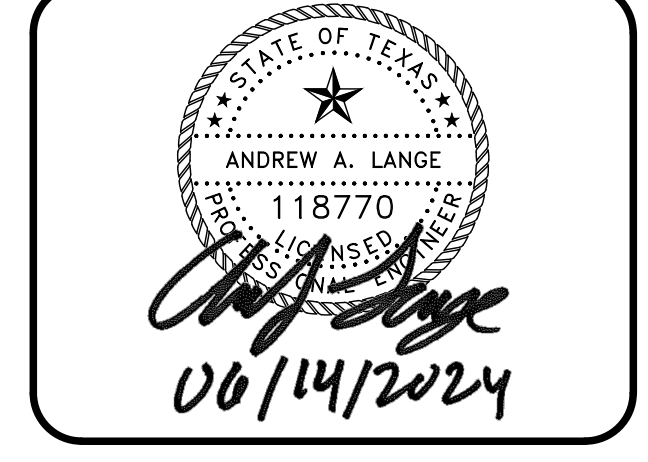
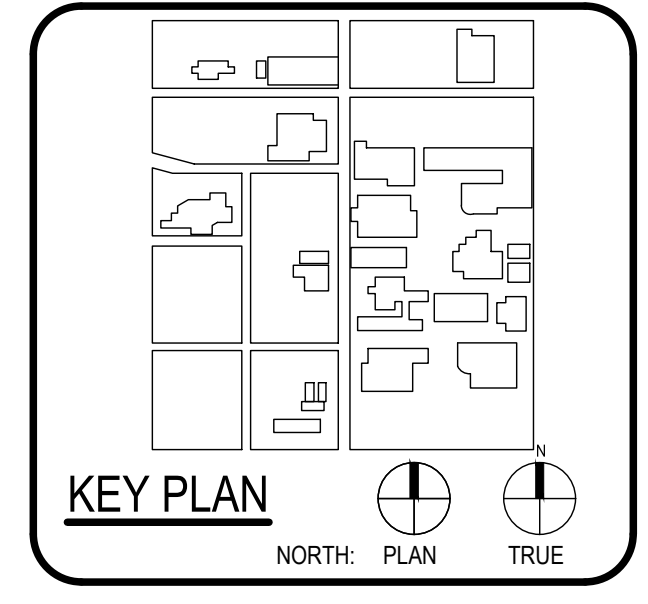


SA-1  
SCALE: 1"=20' H, 1"=5' V



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 St. San Antonio, TX 78207 210-349-1000 LUNDY & HARRIS ENGINEERING 1100 W. 30th St. San Antonio, TX 78207 210-349-1000 TRAVIS 210-349-1000 NEARBY SIGNALS 1100 W. 30th St. San Antonio, TX 78207 210-349-1000	

## WFAC Black Box Addition PKG 1

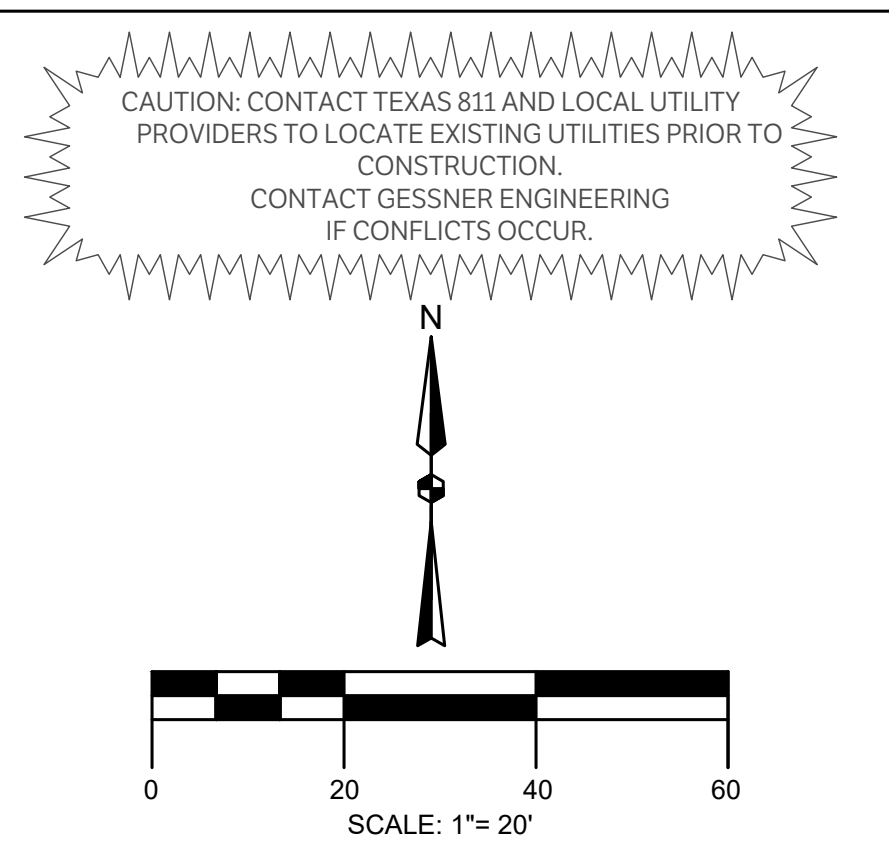
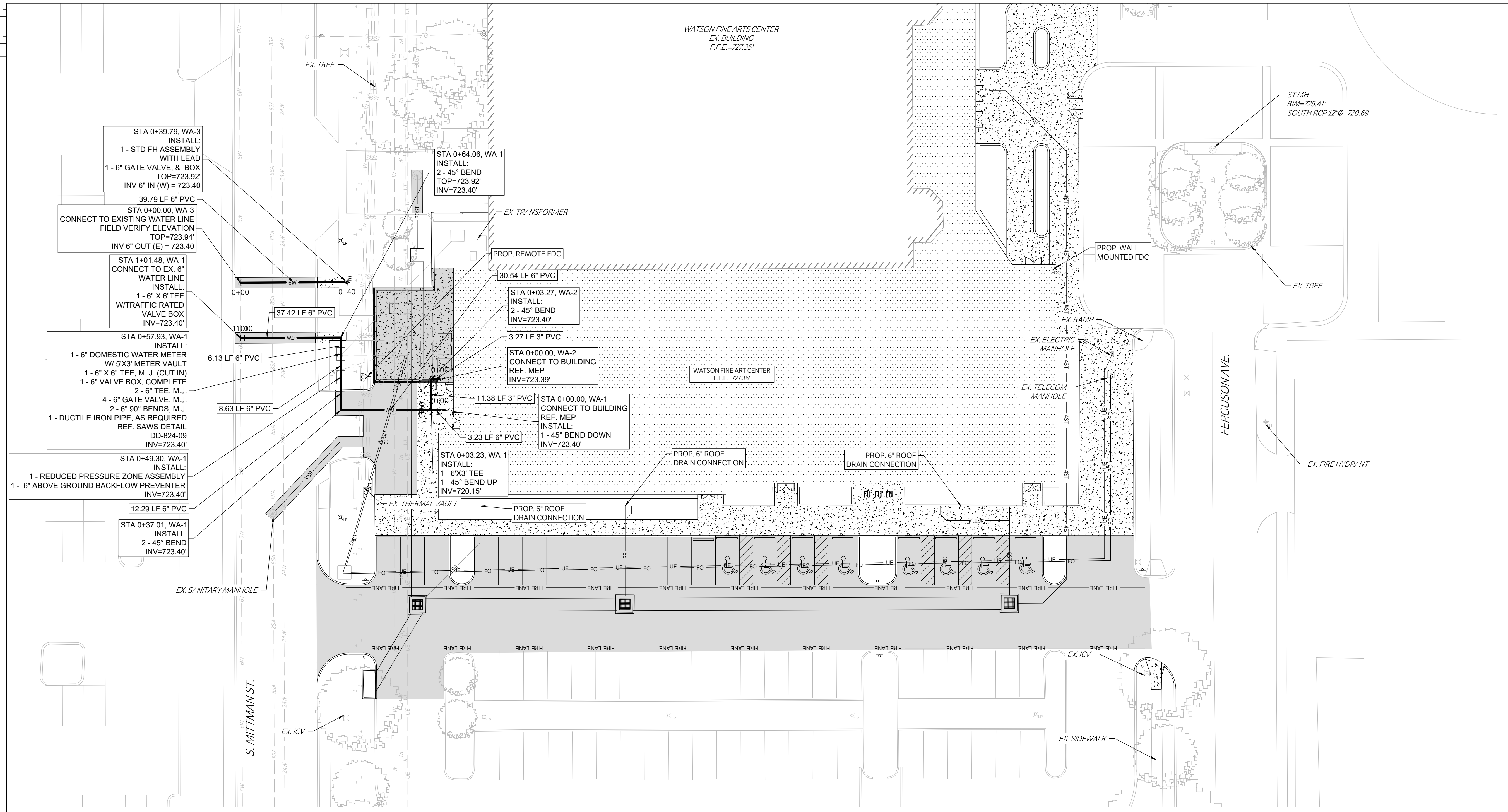


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

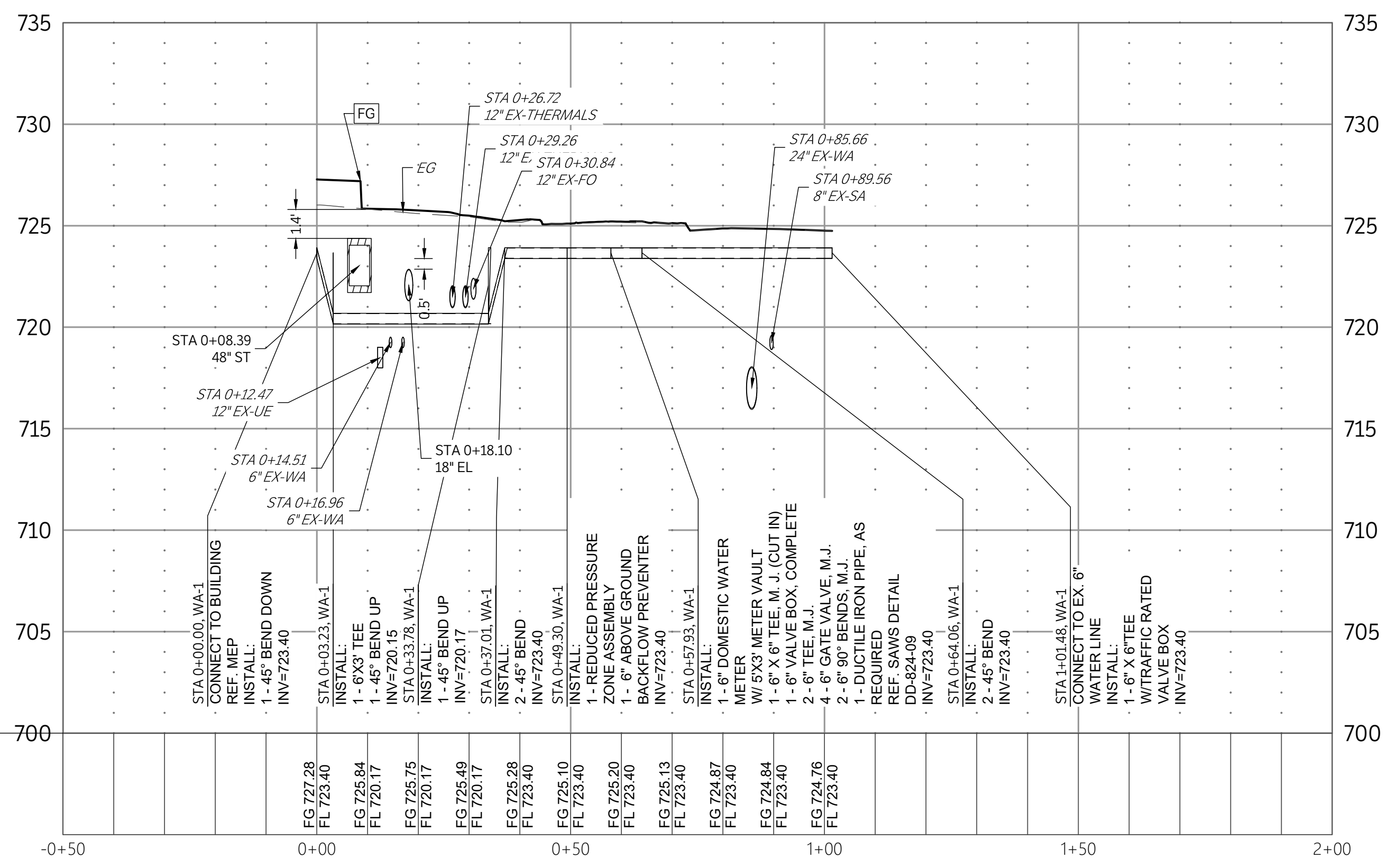
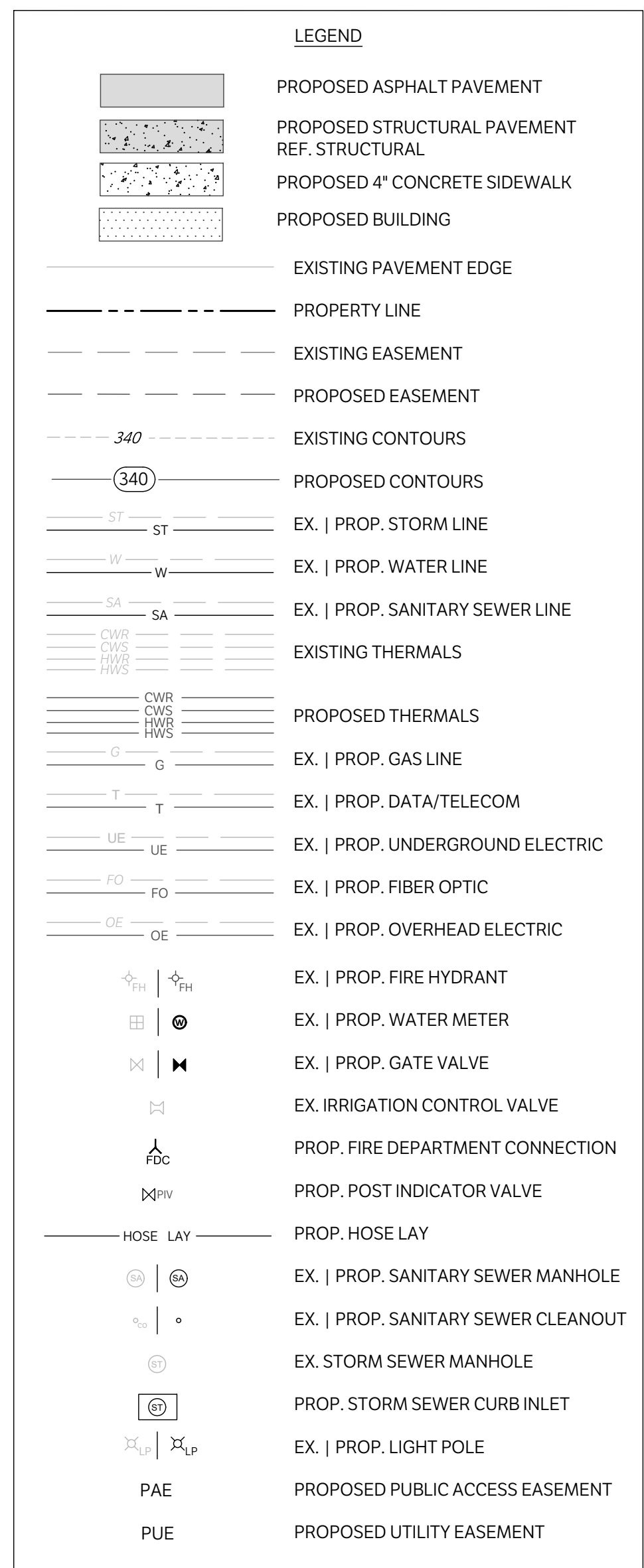
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER  
**SANITARY PLAN & PROFILES**

**C900**

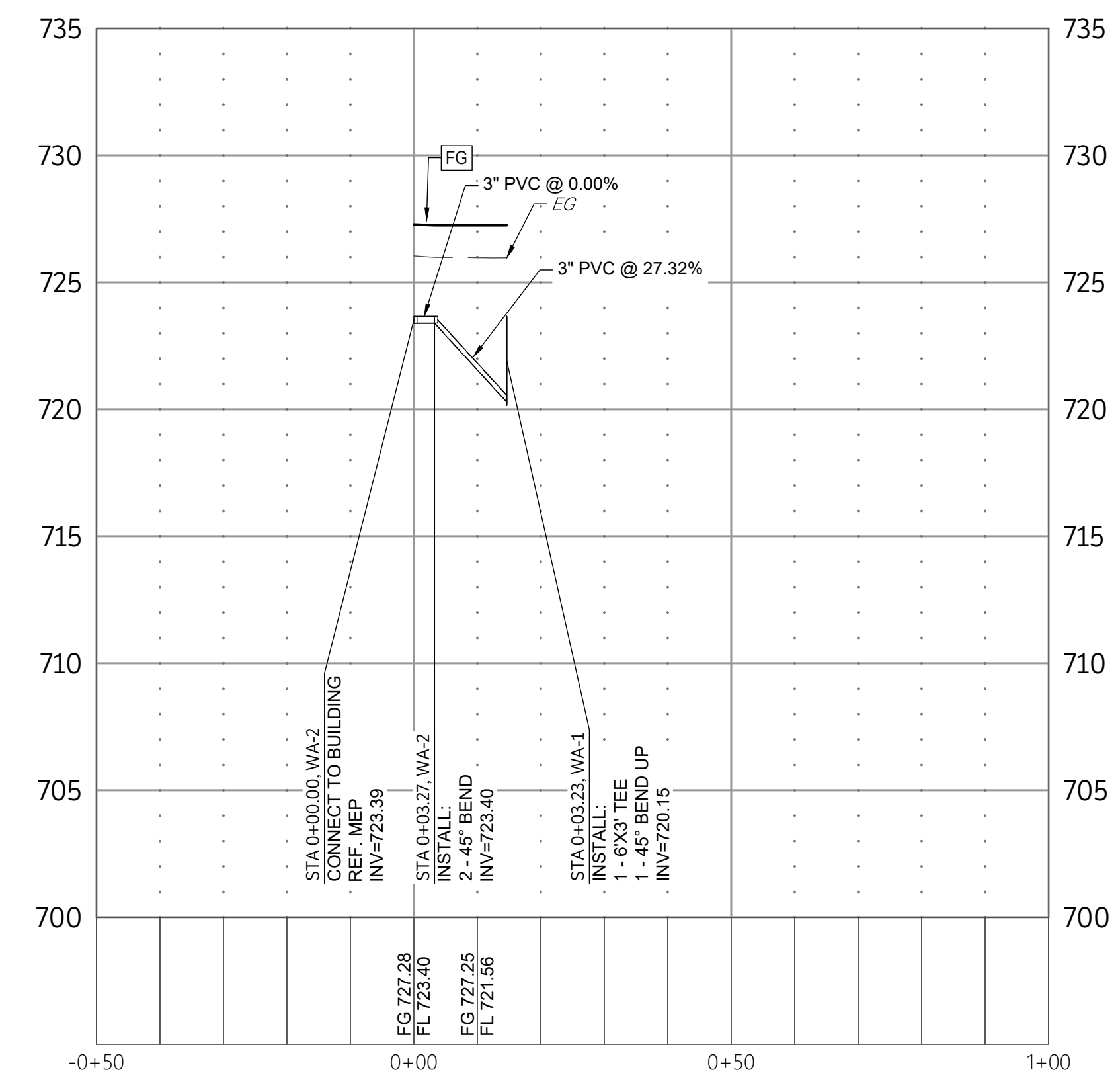
# ISSUE FOR CONSTRUCTION



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



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

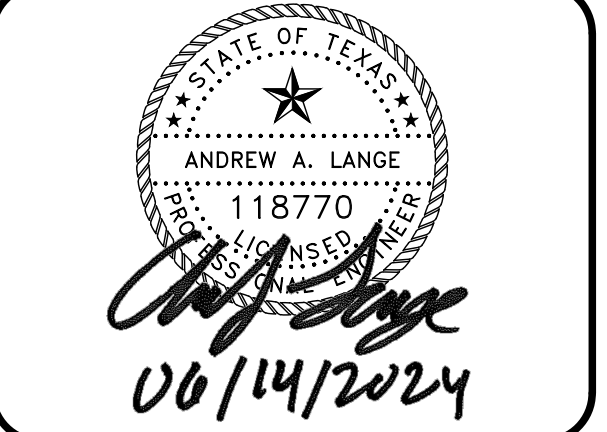
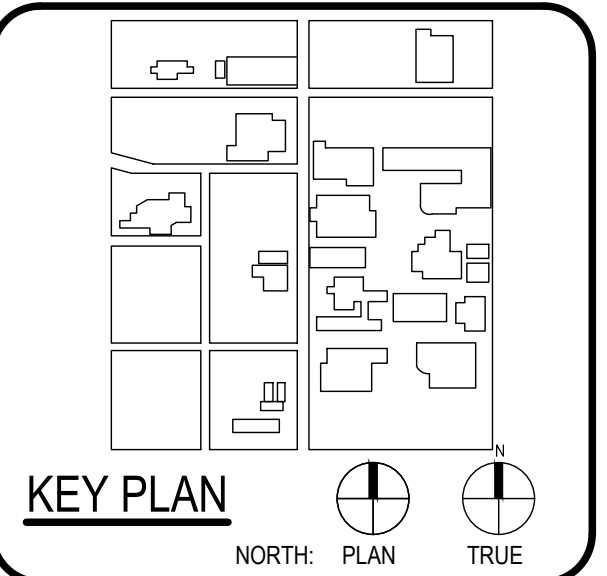


WA-2  
SCALE: 1"=20' H, 1"=5' V



ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	BA & ARCHITECTS
1301 BRUNNEN CELEBRITY LANDSCAPE DESIGN GROUP 1113 W. 34th St. San Antonio, TX 78207 210-381-1111 TX Firm BR 1608	
ENGINEER	LUNY & HARRIS ENGINEERING
1301 BRUNNEN SAN ANTONIO, TX 78207 210-381-1111 TX Firm BR 1608	
PROFESOR	NEAR POWER SIGNALS
1301 BRUNNEN SAN ANTONIO, TX 78207 210-381-1111 TX Firm BR 1608	

## WFAC Black Box Addition PKG 1



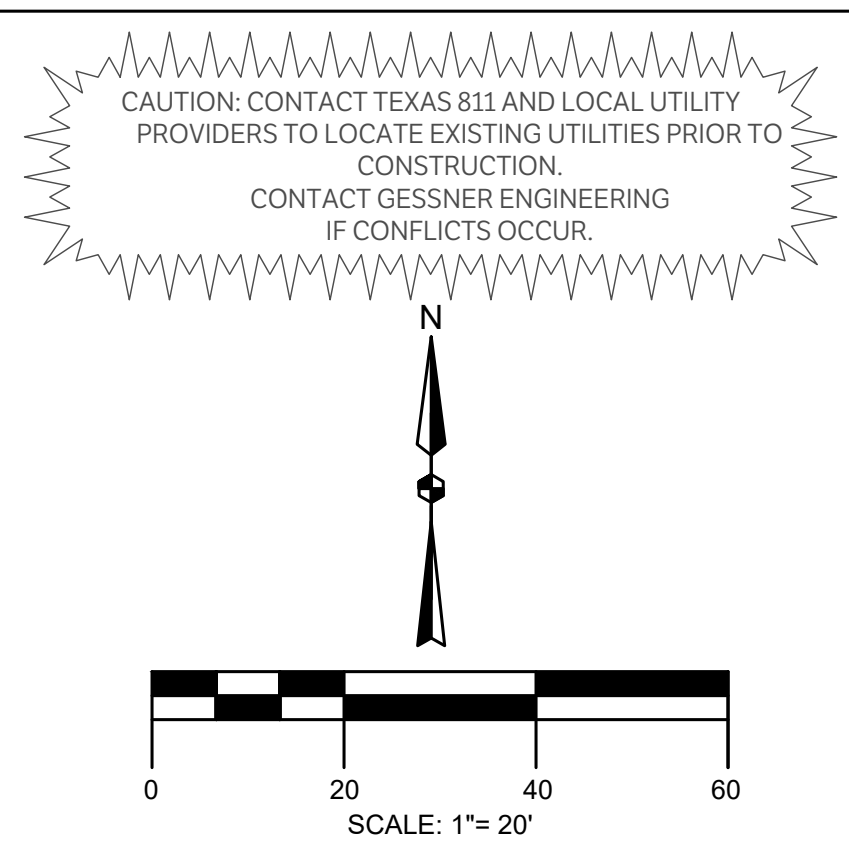
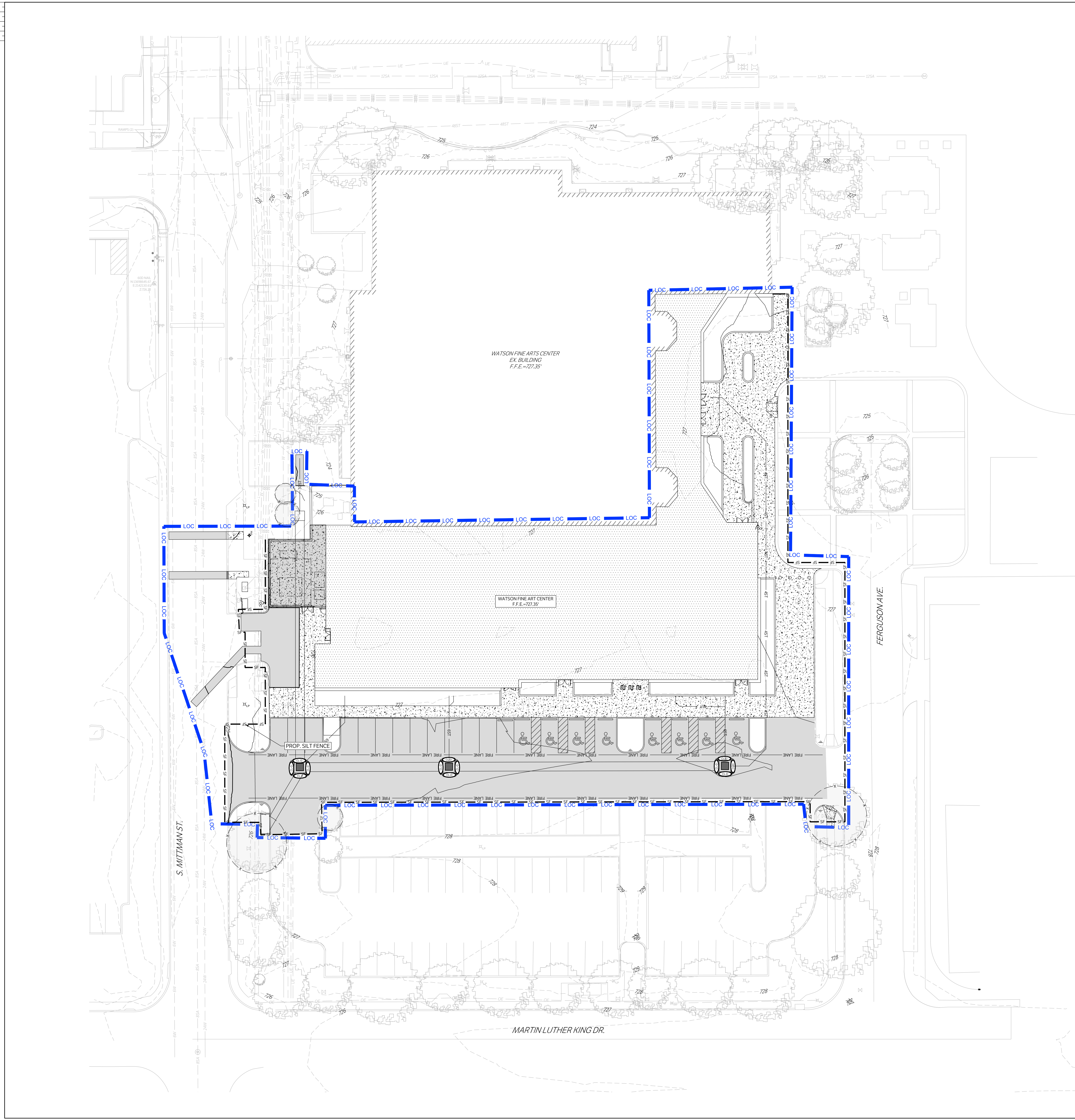
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/12		
DRAWING HISTORY		
No.	Description	Date

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.

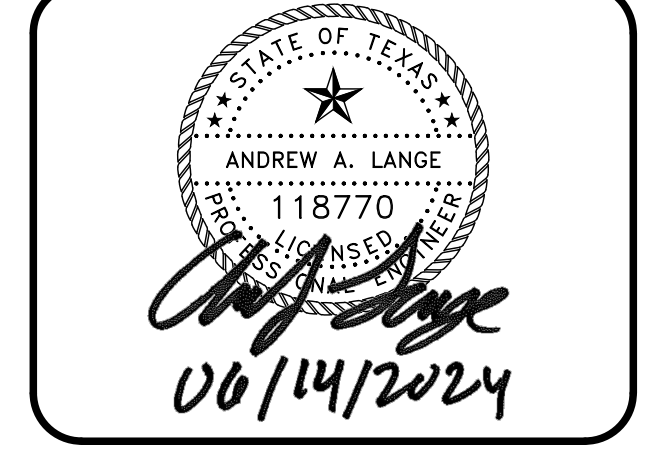
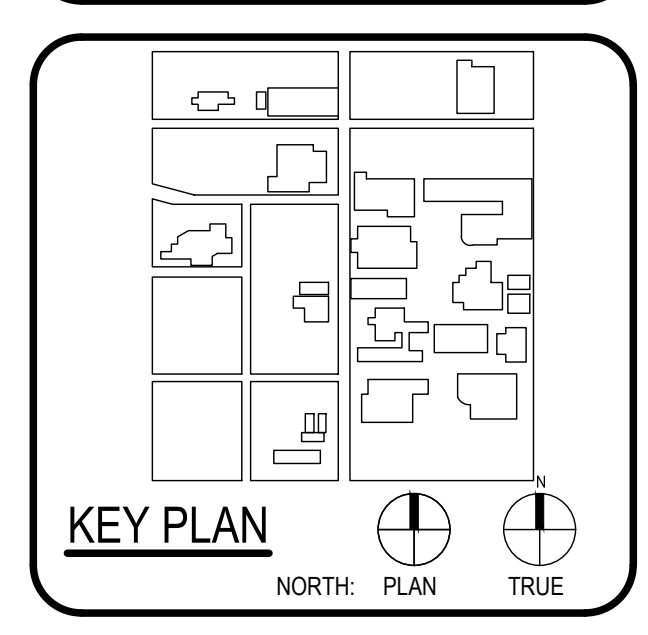
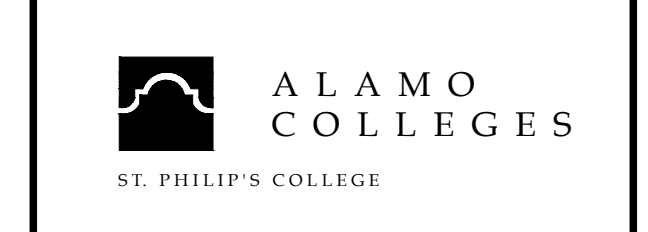


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111 LANDSCAPE 1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111 LUNY & HARRIS ENGINEERING 1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111 TRAVIS 1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111 PROVIDOR MEAN PROFESSIONALS 1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111 MEAN 1711 W. BRIDGES SAN ANTONIO, TX 78205 210-492-1111	

**WFAC Black Box Addition PKG 1**

600 S Miltman St.  
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



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

**ISSUE FOR CONSTRUCTION**

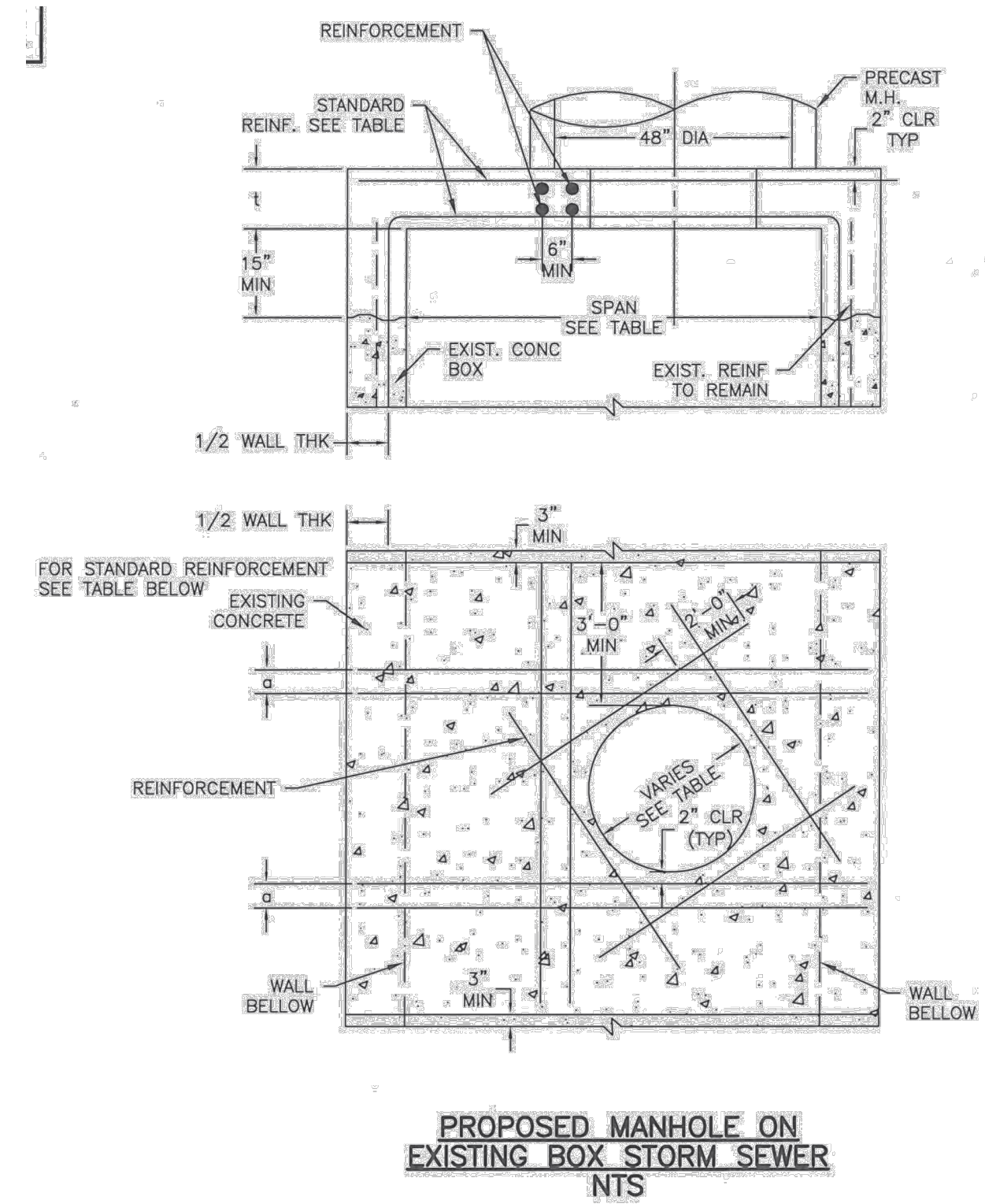
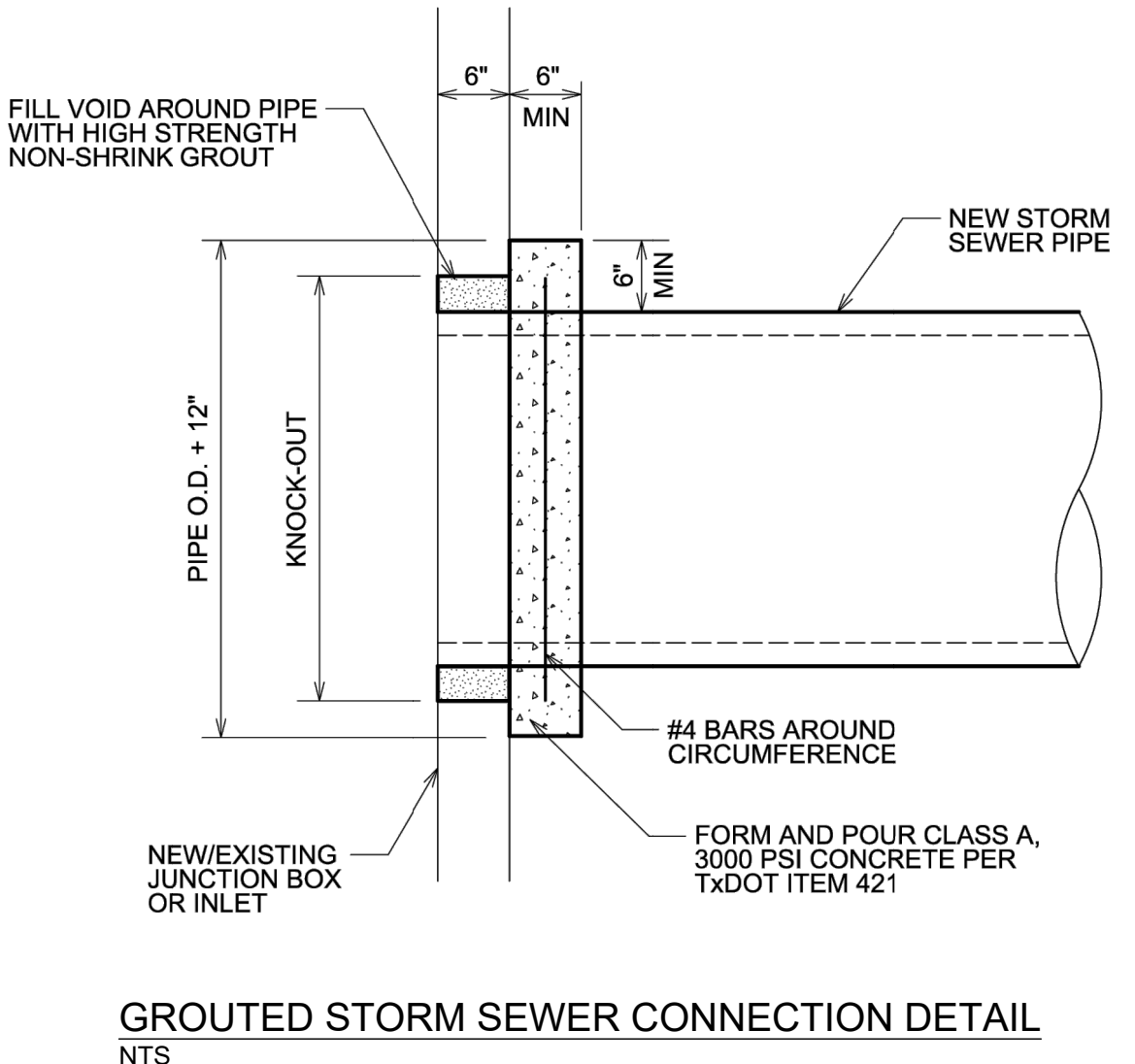
BUILDING NUMBER

**EROSION CONTROL**

**C1100**

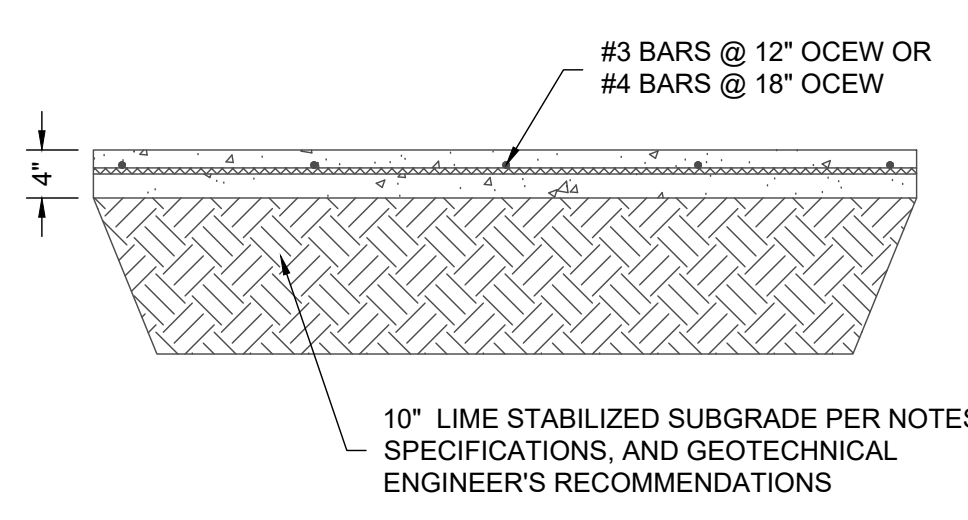
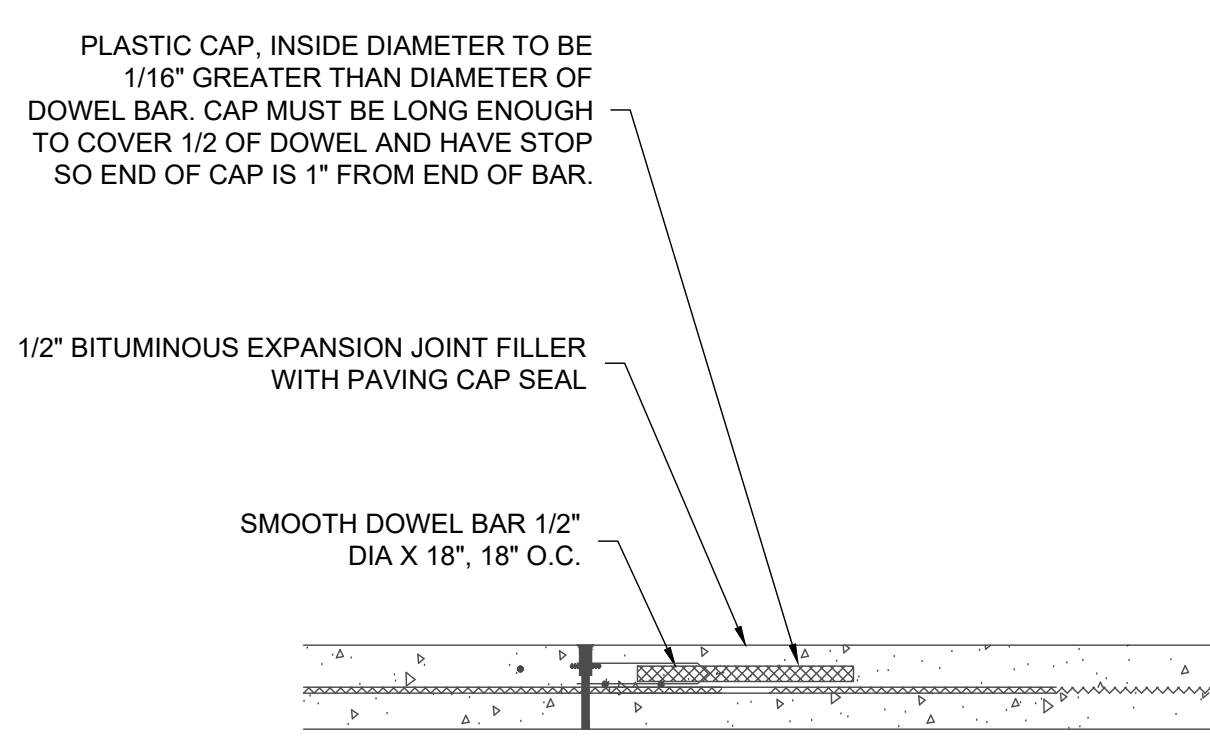
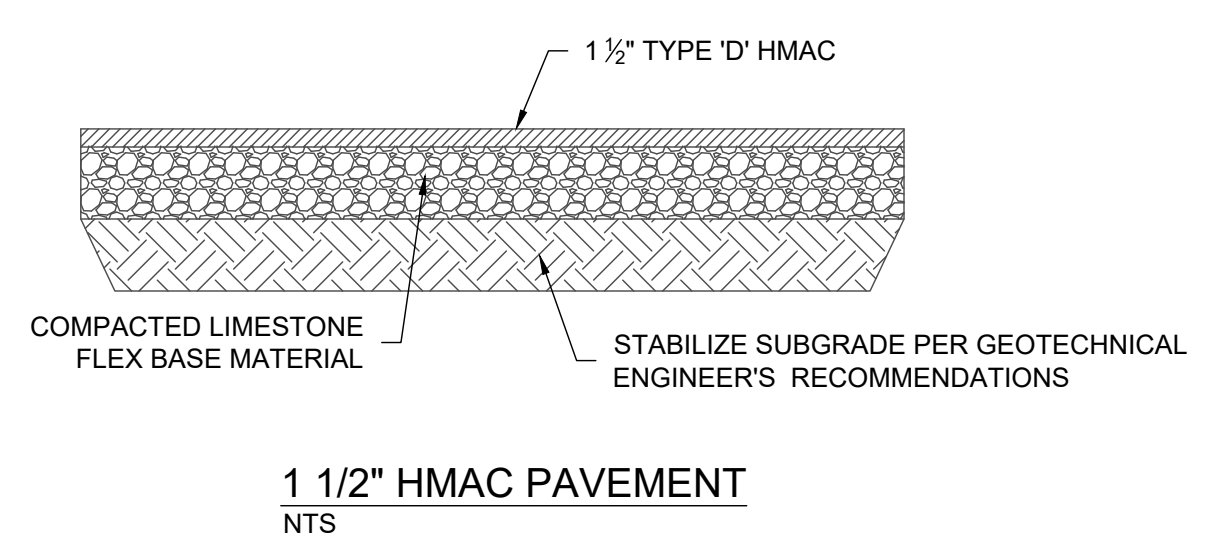
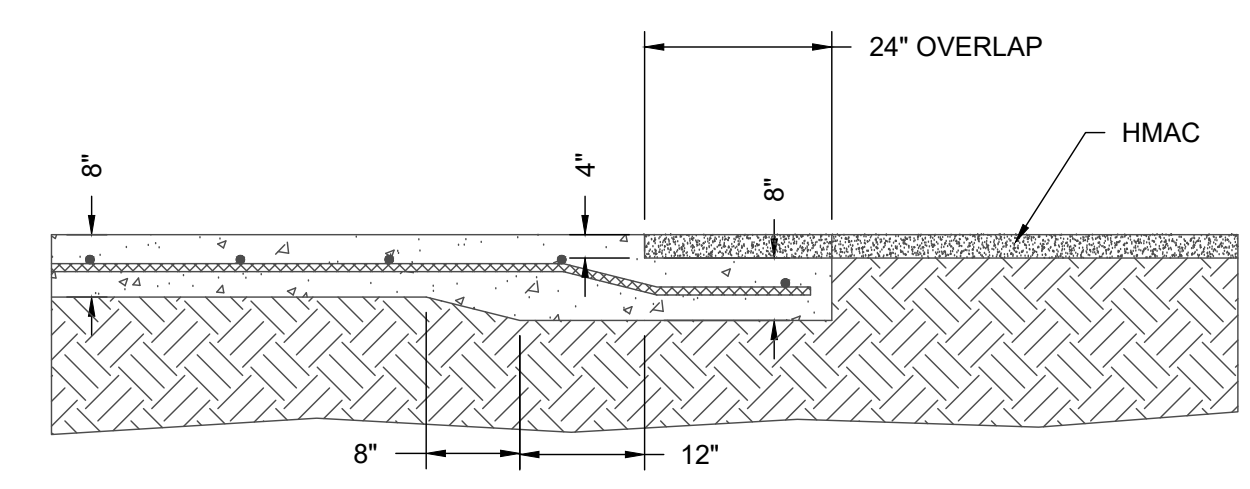
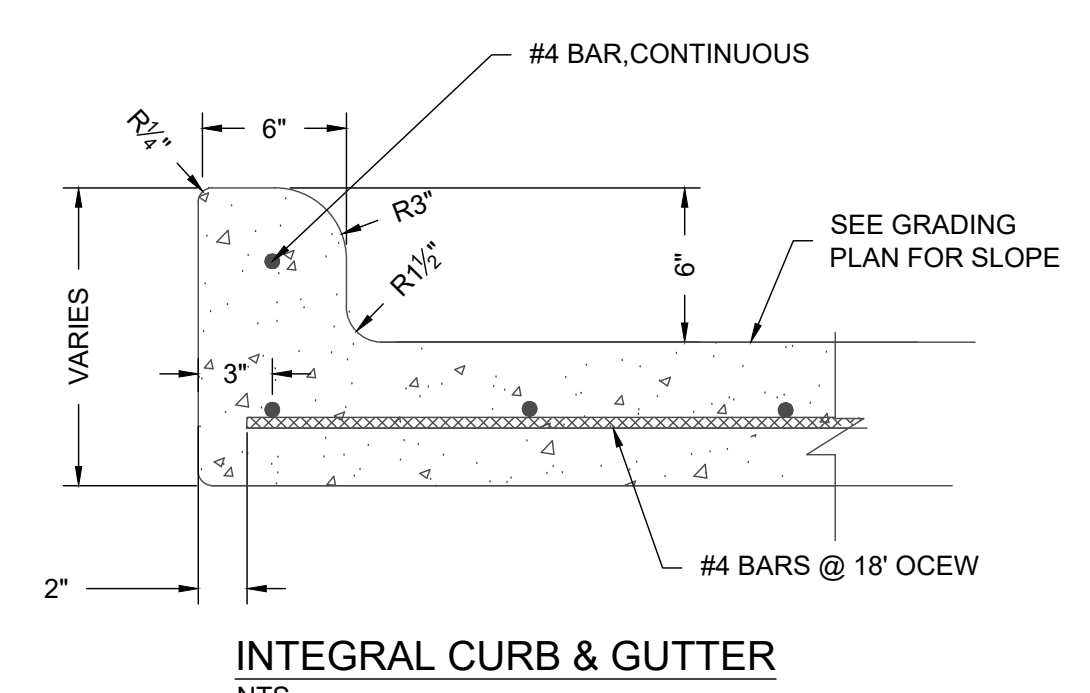
**GENERAL NOTES**

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



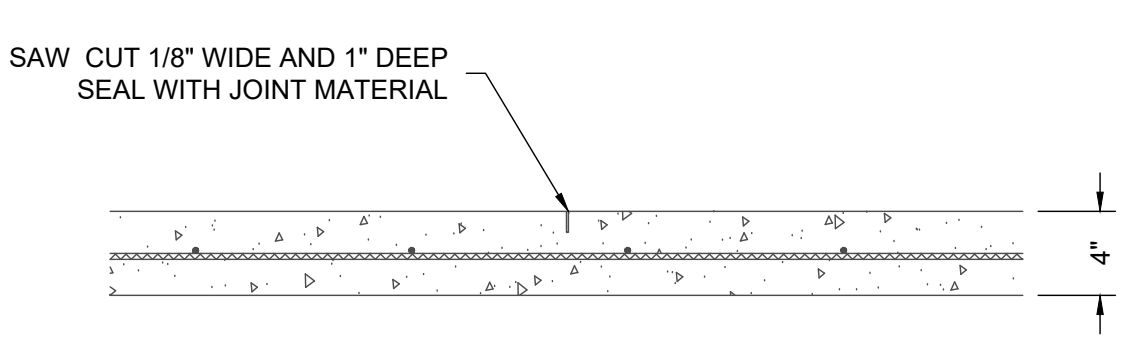
**TABLE**  
SEWER SIZE VS. OPENING

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



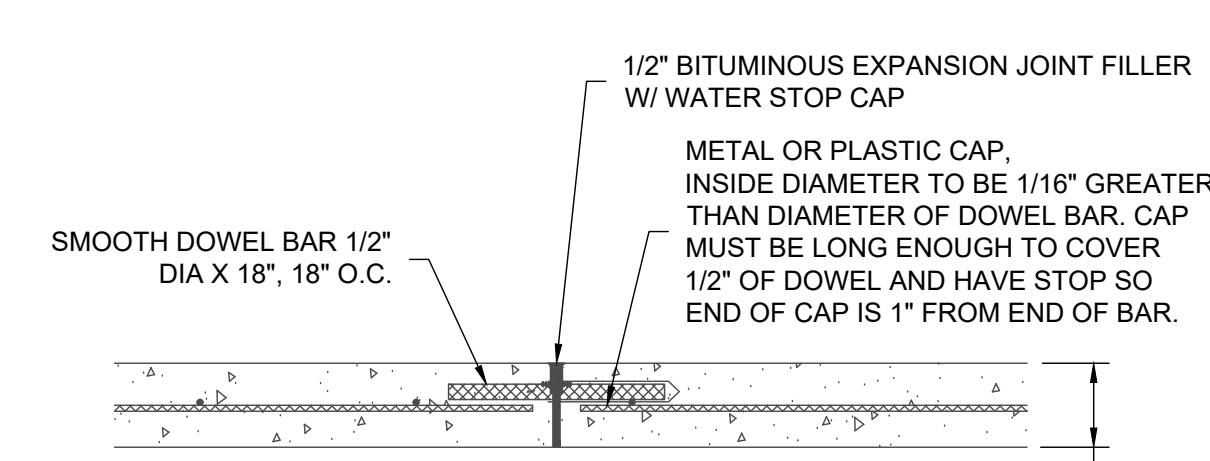
- NOTES:**
- SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.
  - SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.
  - SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING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

**SIDEWALK EXPANSION JOINT**  
NTS

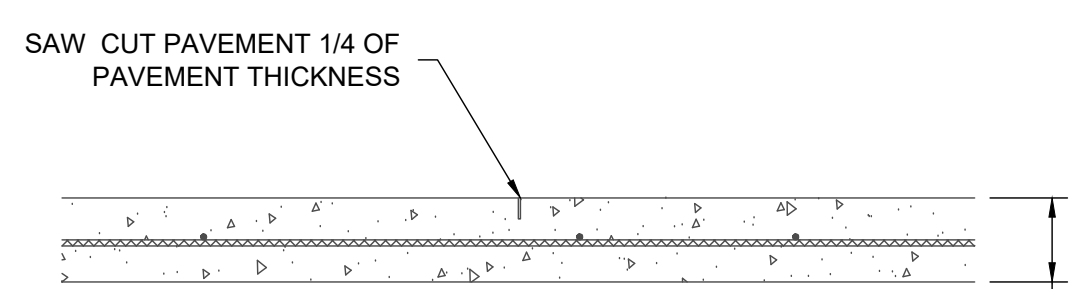


**NOTE:**  
SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

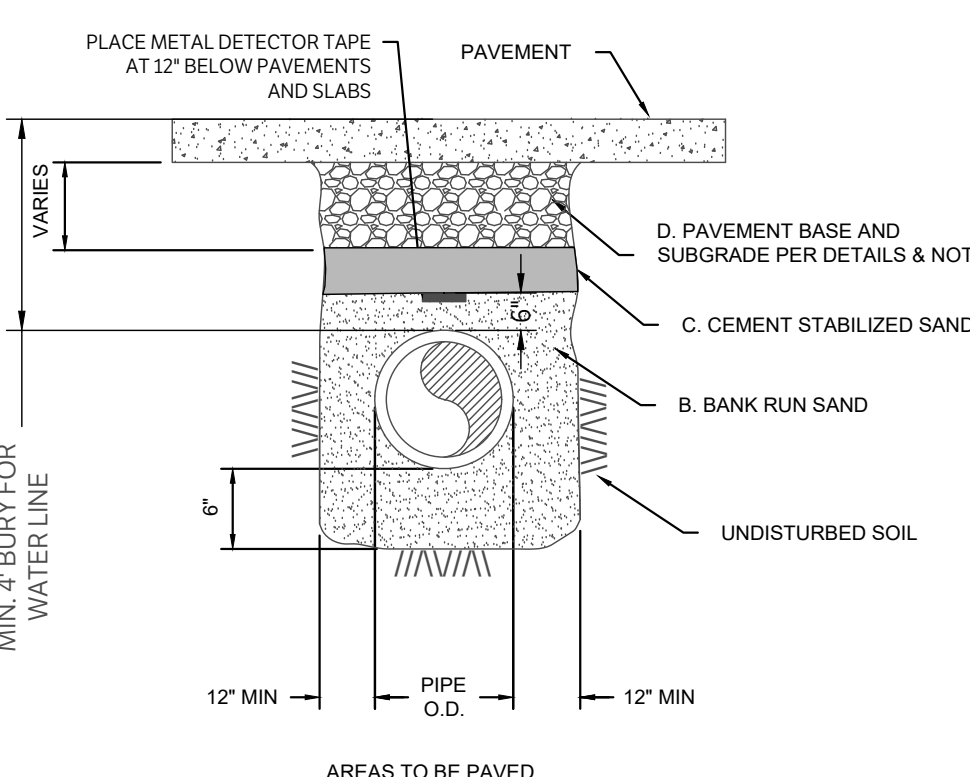
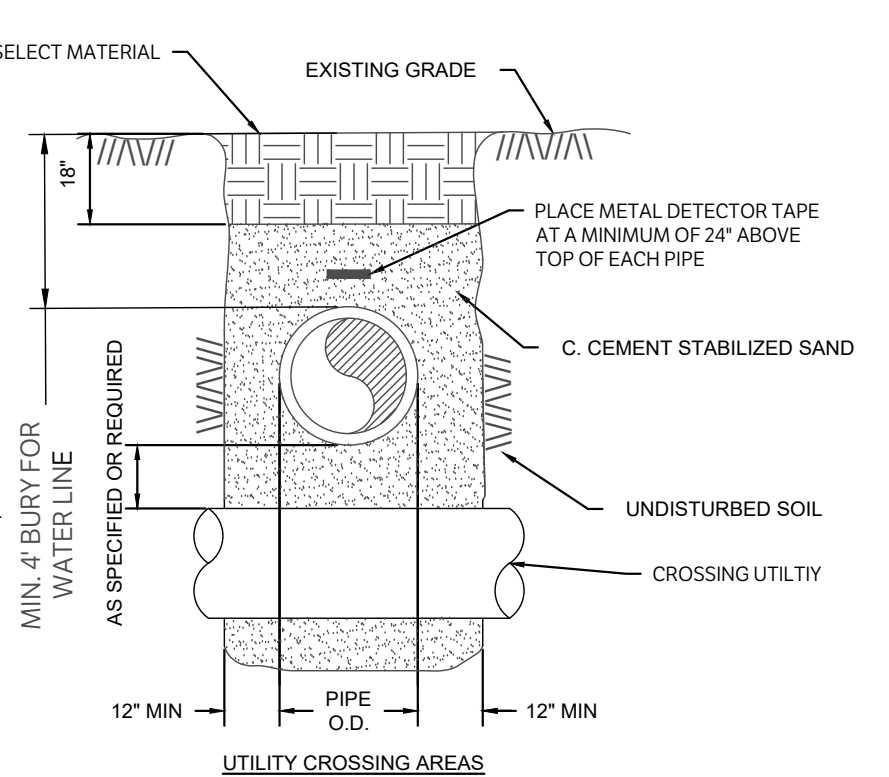
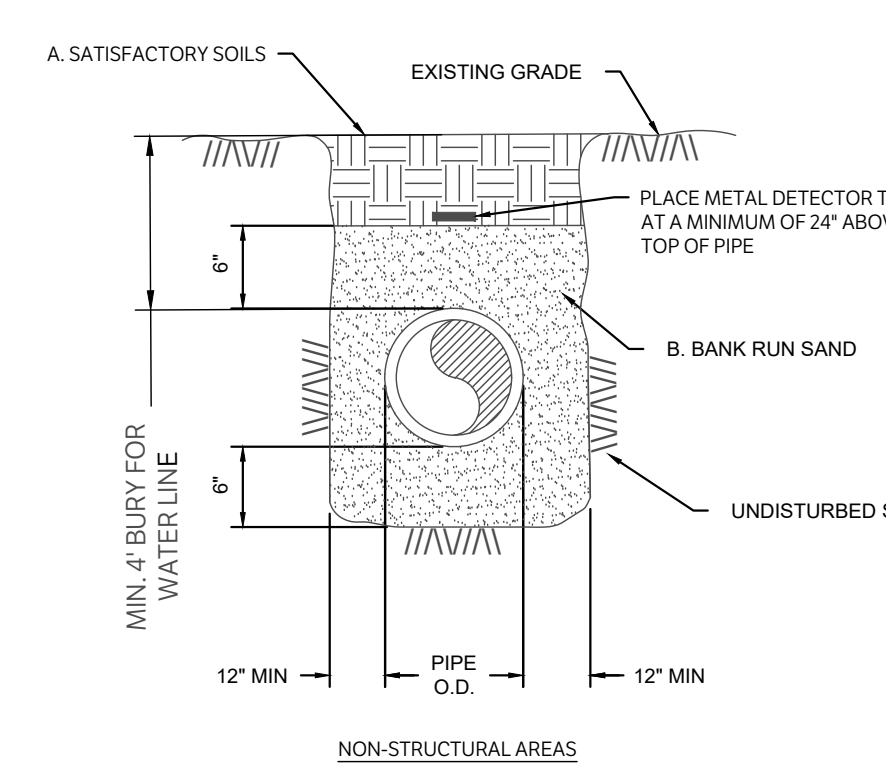
**SIDEWALK CONTRACTION JOINT**  
NTS



**CONCRETE PAVEMENT**  
NTS



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



- A. SATISFACTORY SOILS**  
MATERIAL EXCAVATED FROM THE DITCH, WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION, COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A 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.

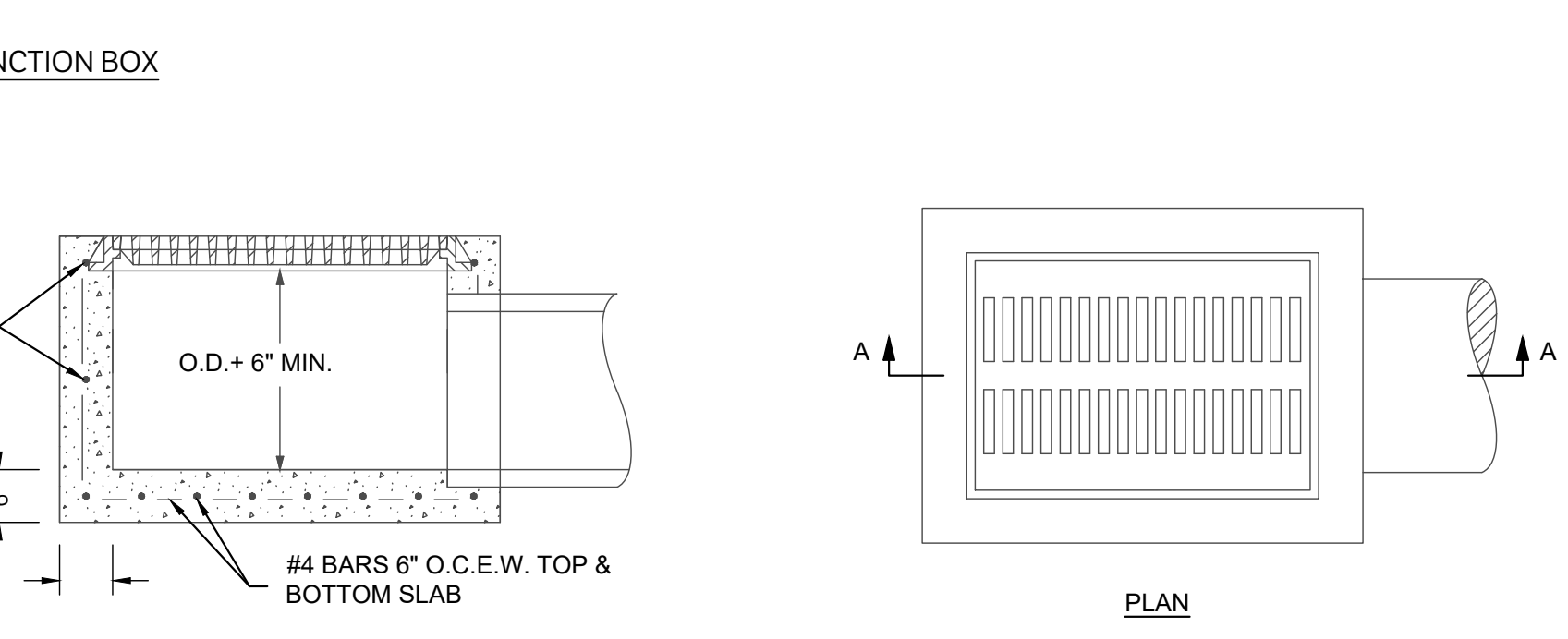
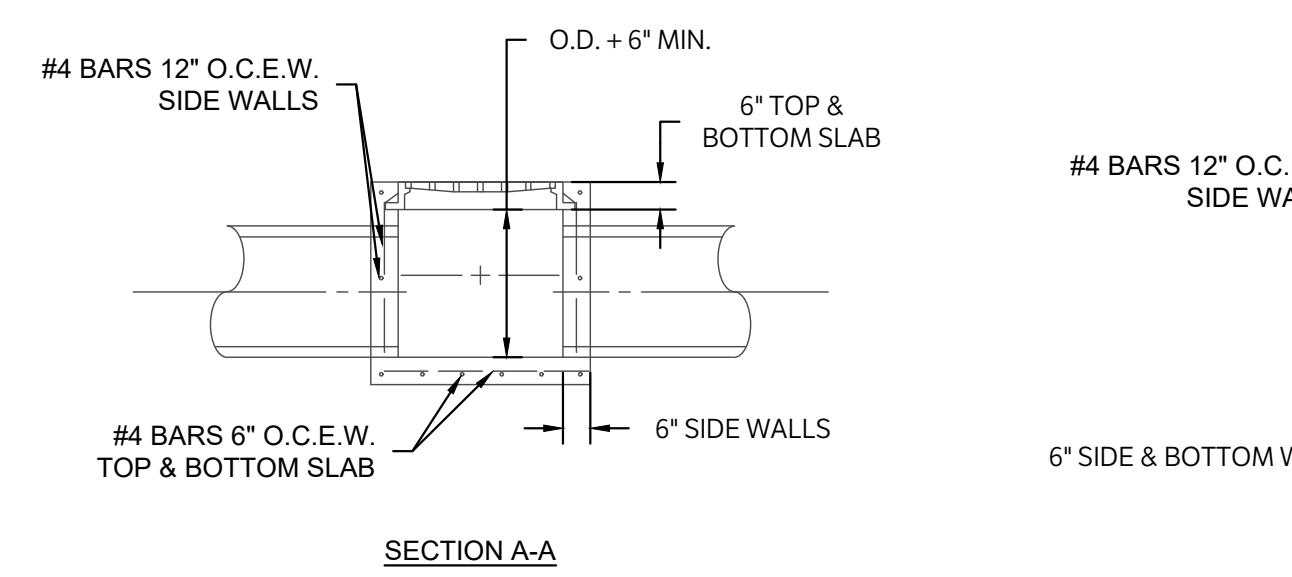
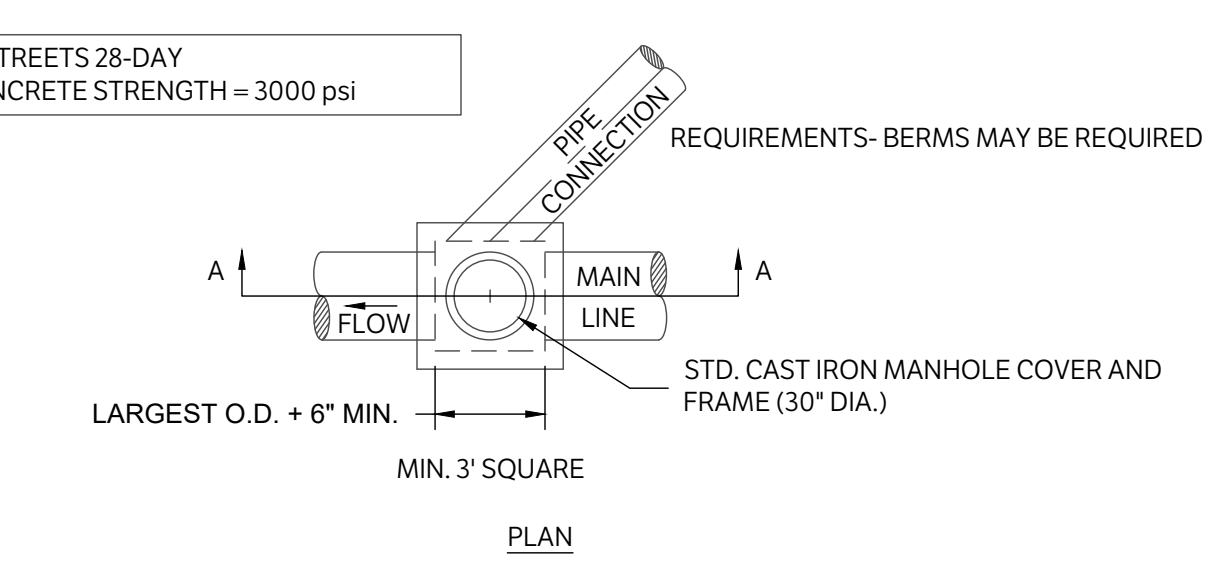
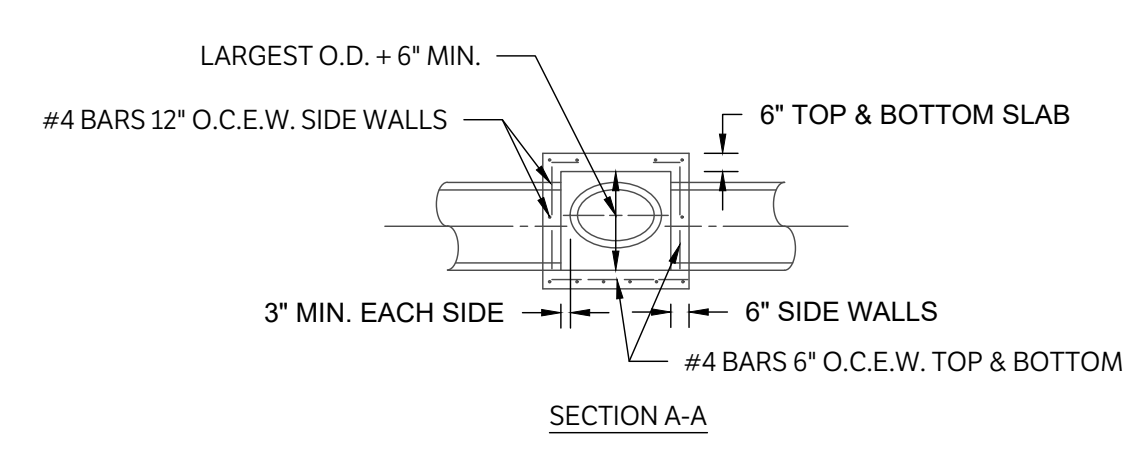
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.

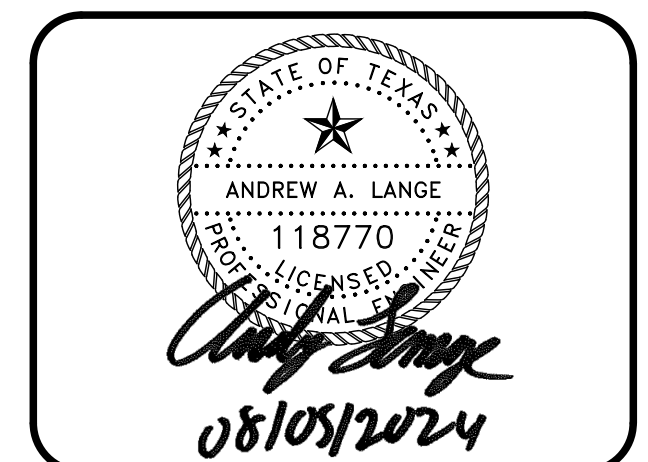
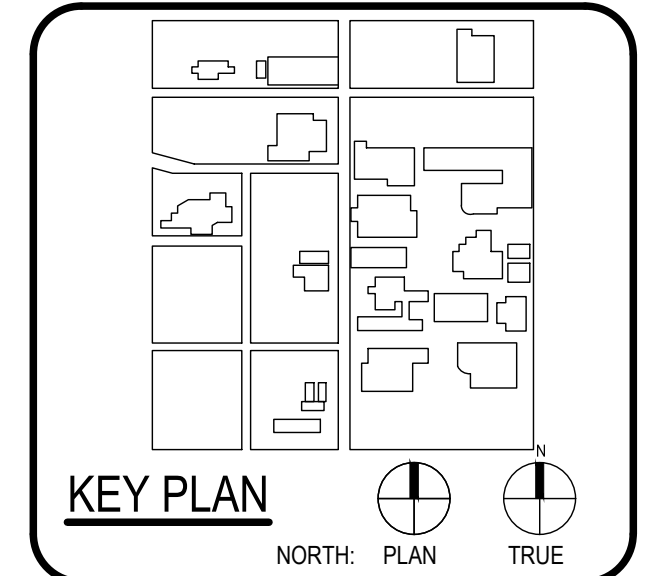
- NOTES:**
- FOR BEDDING AND TRENCHING WITHIN ALL PAVED AREAS SEE DETAILS FOR OPEN CUT STREETS.
  - ALL BEDDING & INSTALLATION OF HDPE PIPE SHALL BE IN ACCORDANCE WITH ANSII/AWA STANDARDS FOR HOPE PIPE COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
  - RELATIVE COMPACTION SHALL BE TESTING IN THE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

**BEDDING AND TRENCH FOR HDPE PIPE**  
NTS



**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

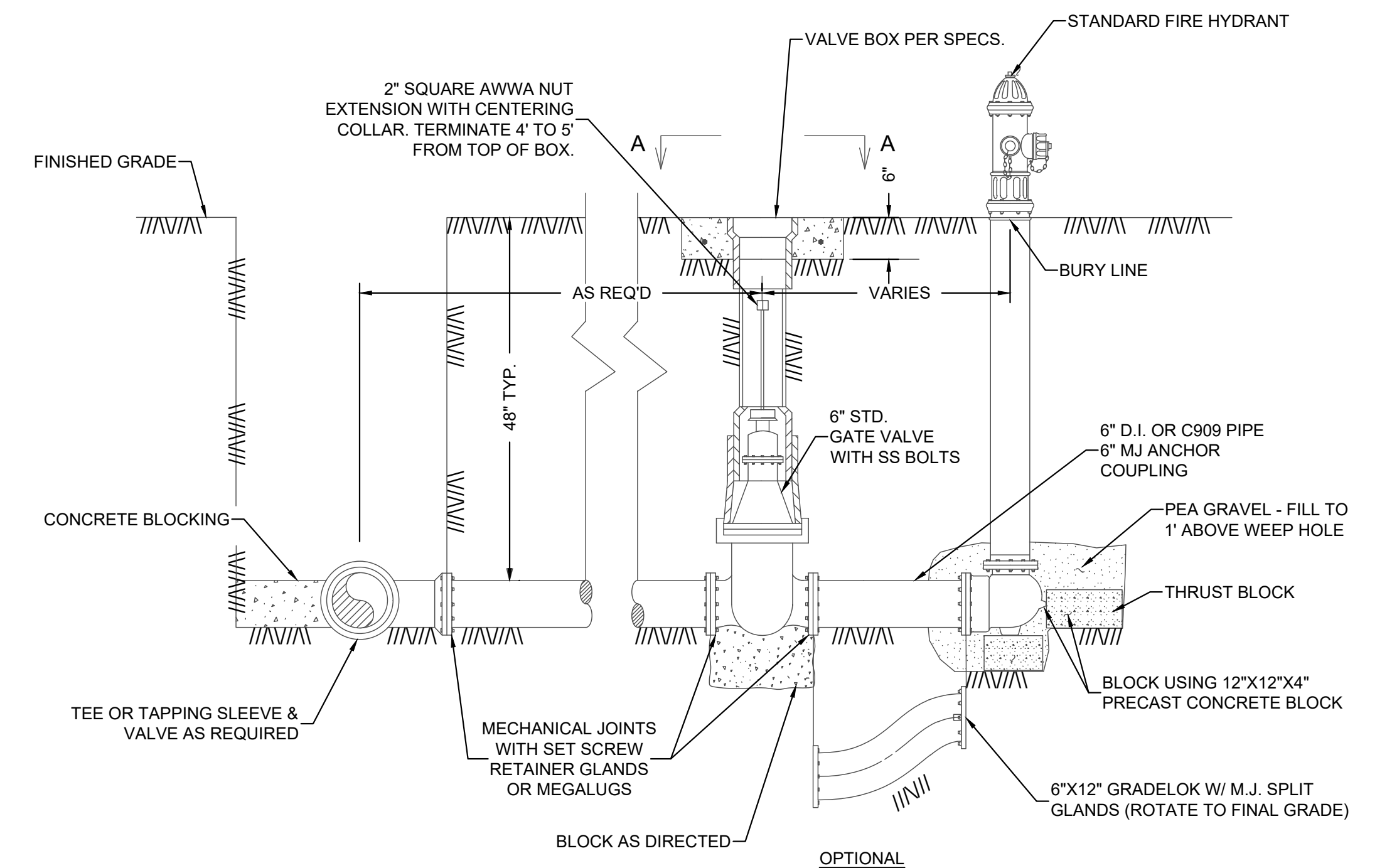
**ISSUE FOR PERMIT**  
BUILDING NUMBER

**DETAILS**

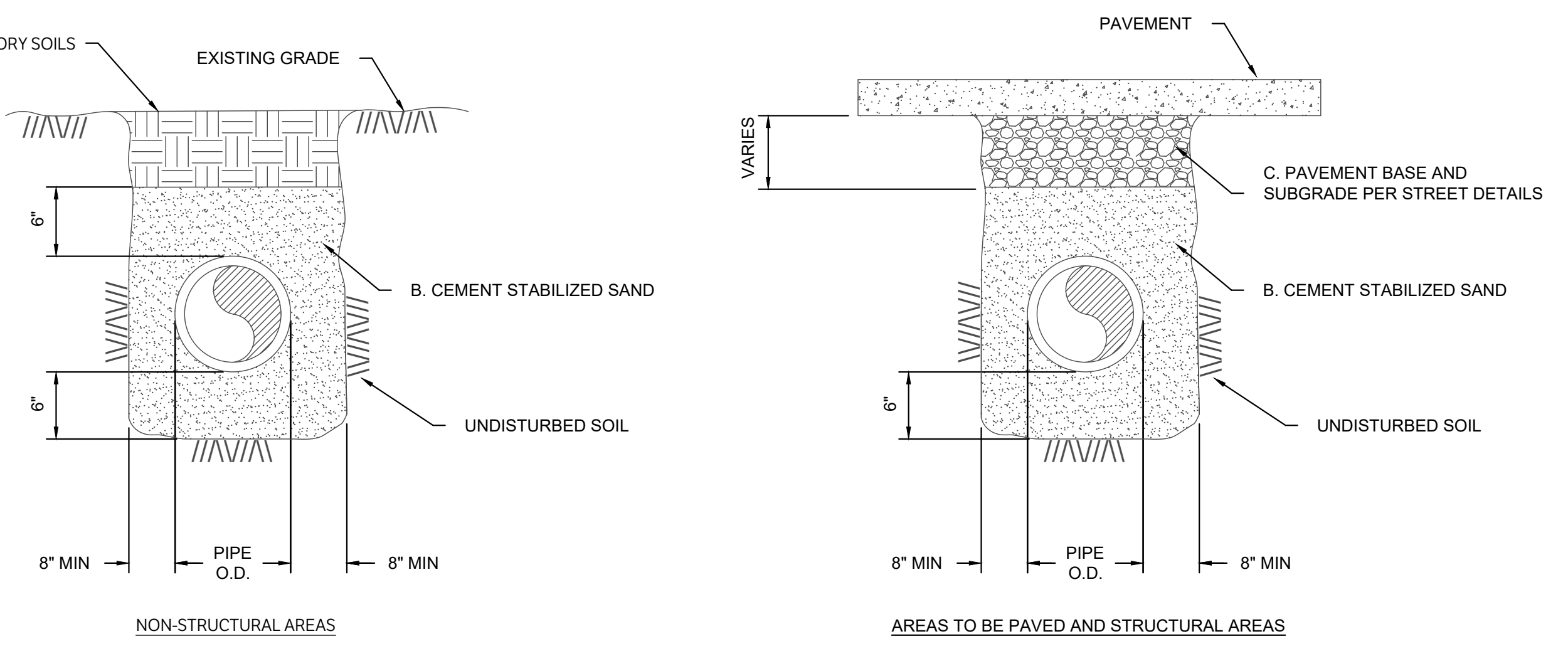
**C1200**

**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**

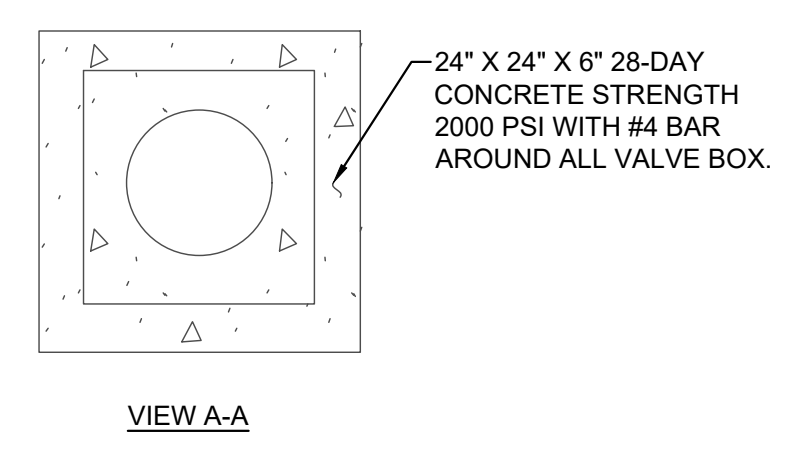
- A. SATISFACTORY SOILS**  
 MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM 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.

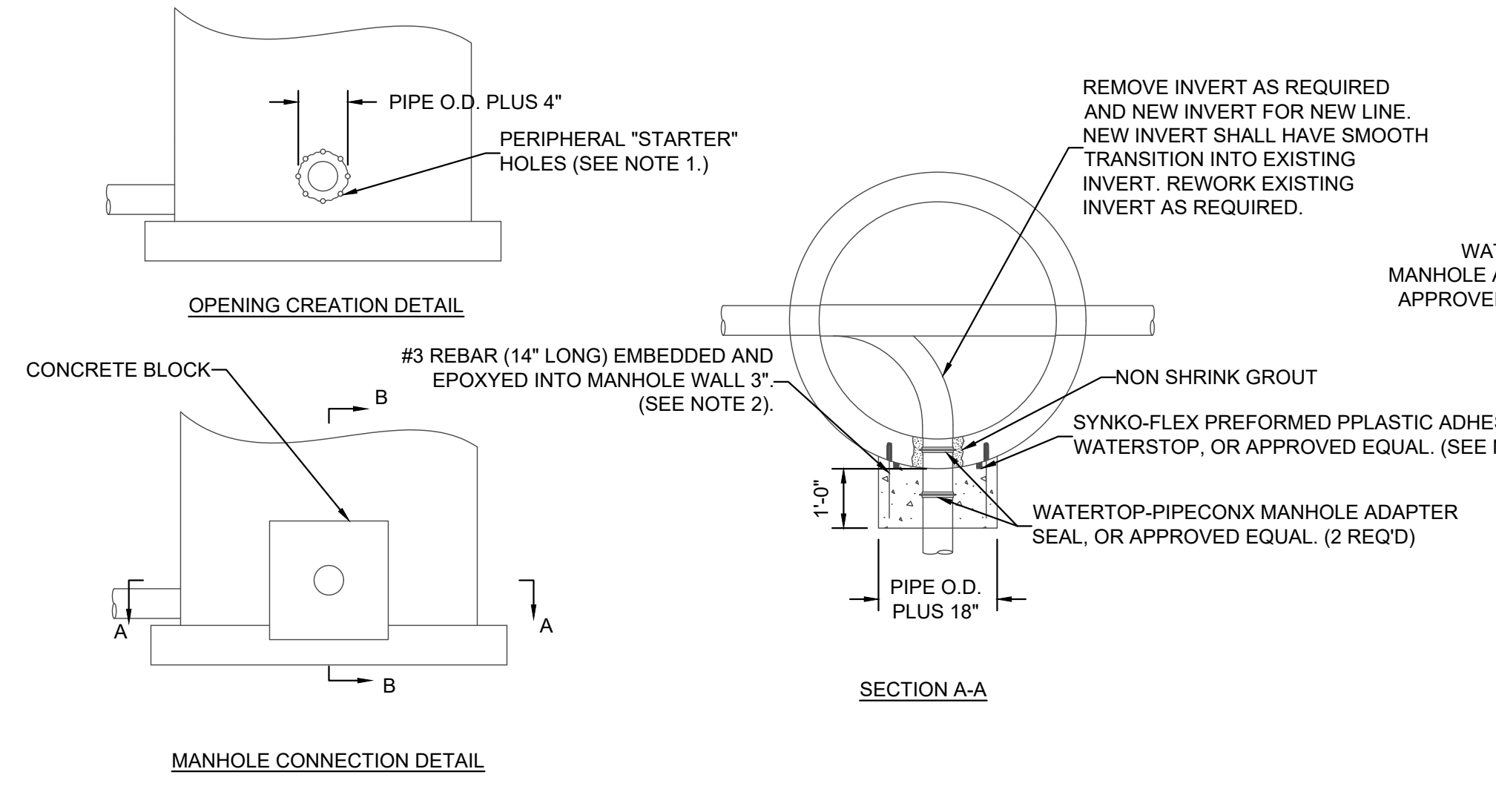
APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARRED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

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

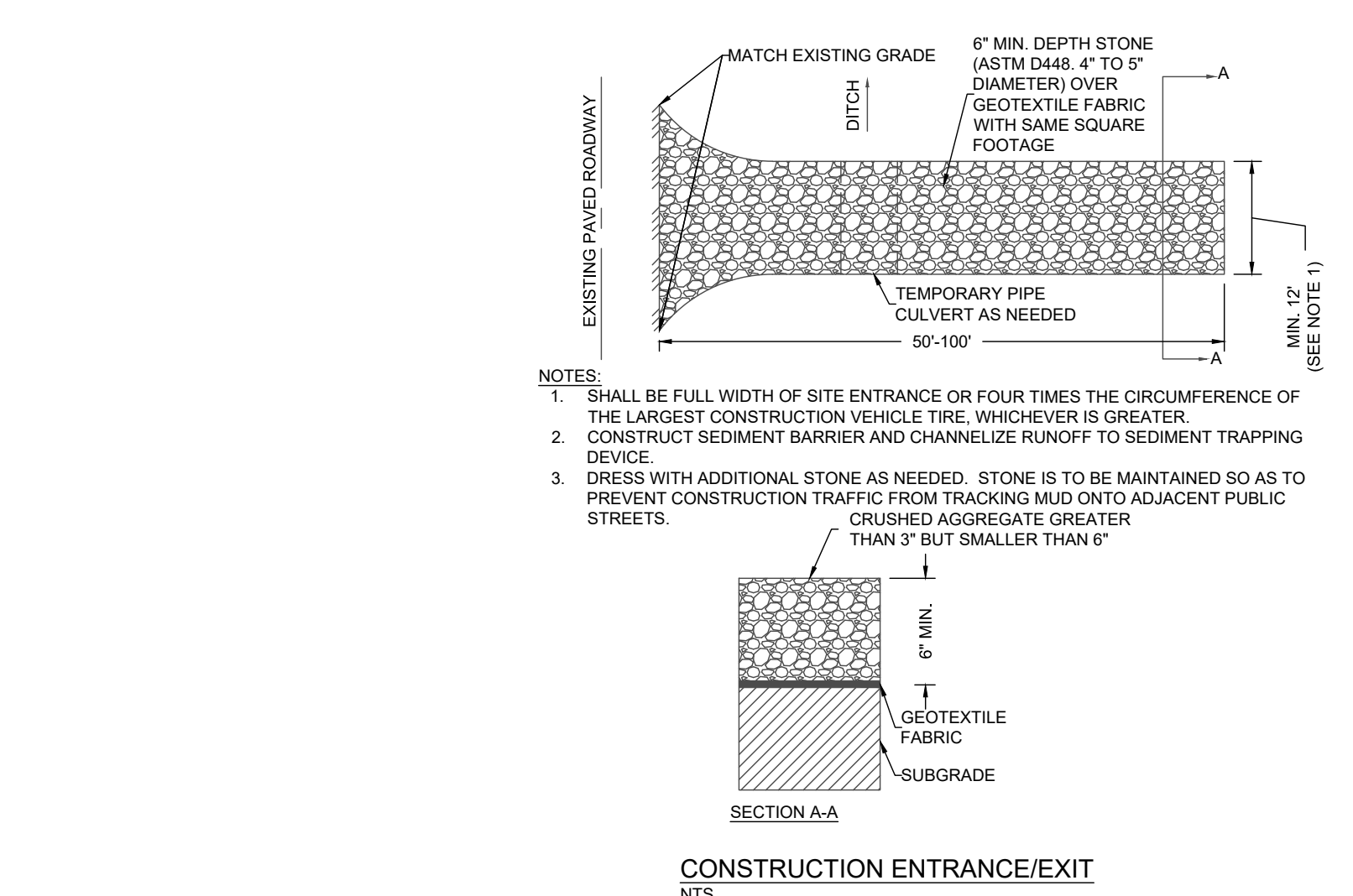
ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM



**VIEW A-A**



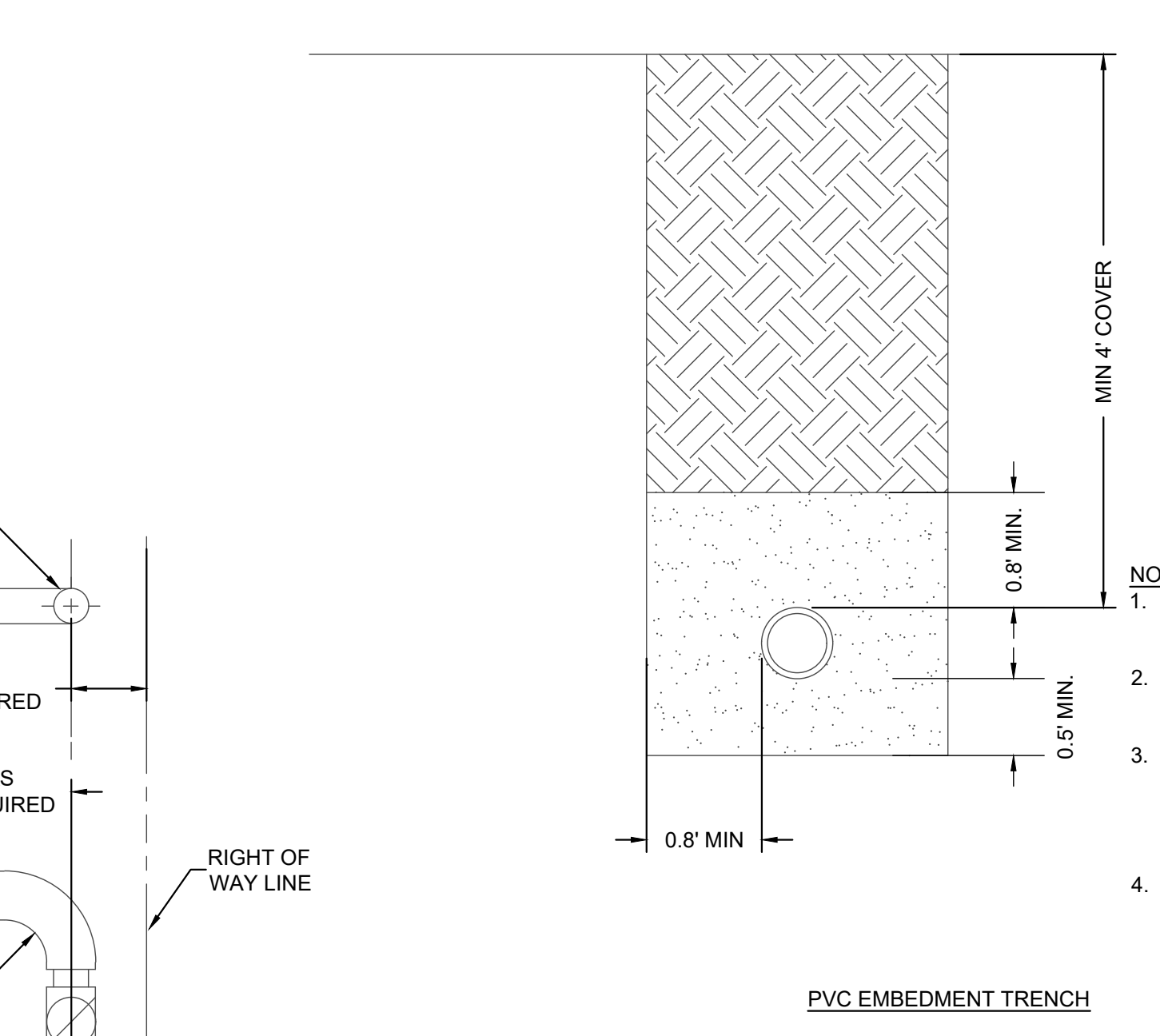
**MANHOLE CONNECTION DETAIL NTS**



**CONSTRUCTION ENTRANCE/EXIT NTS**

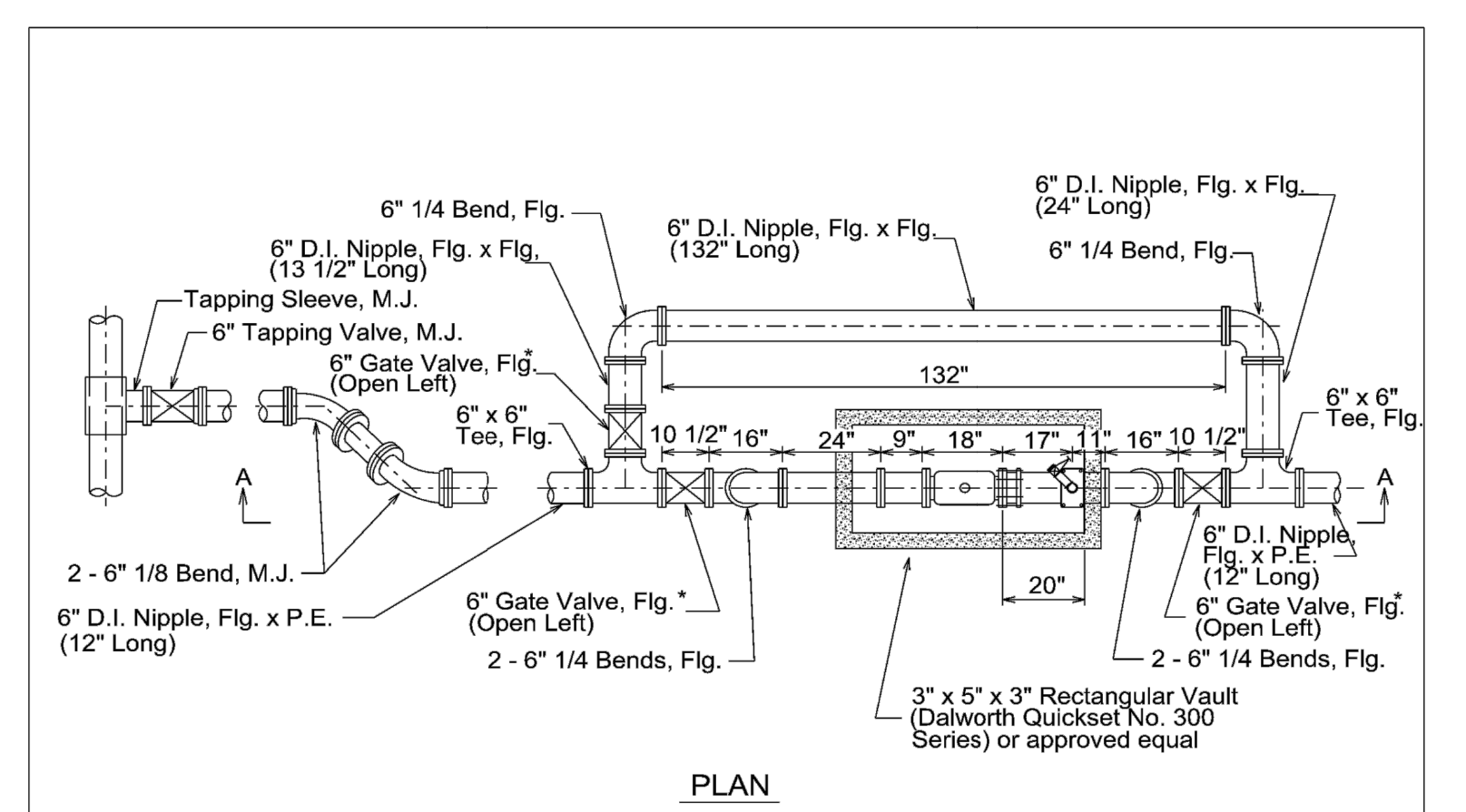


**SILT CONTROL FENCE NTS**

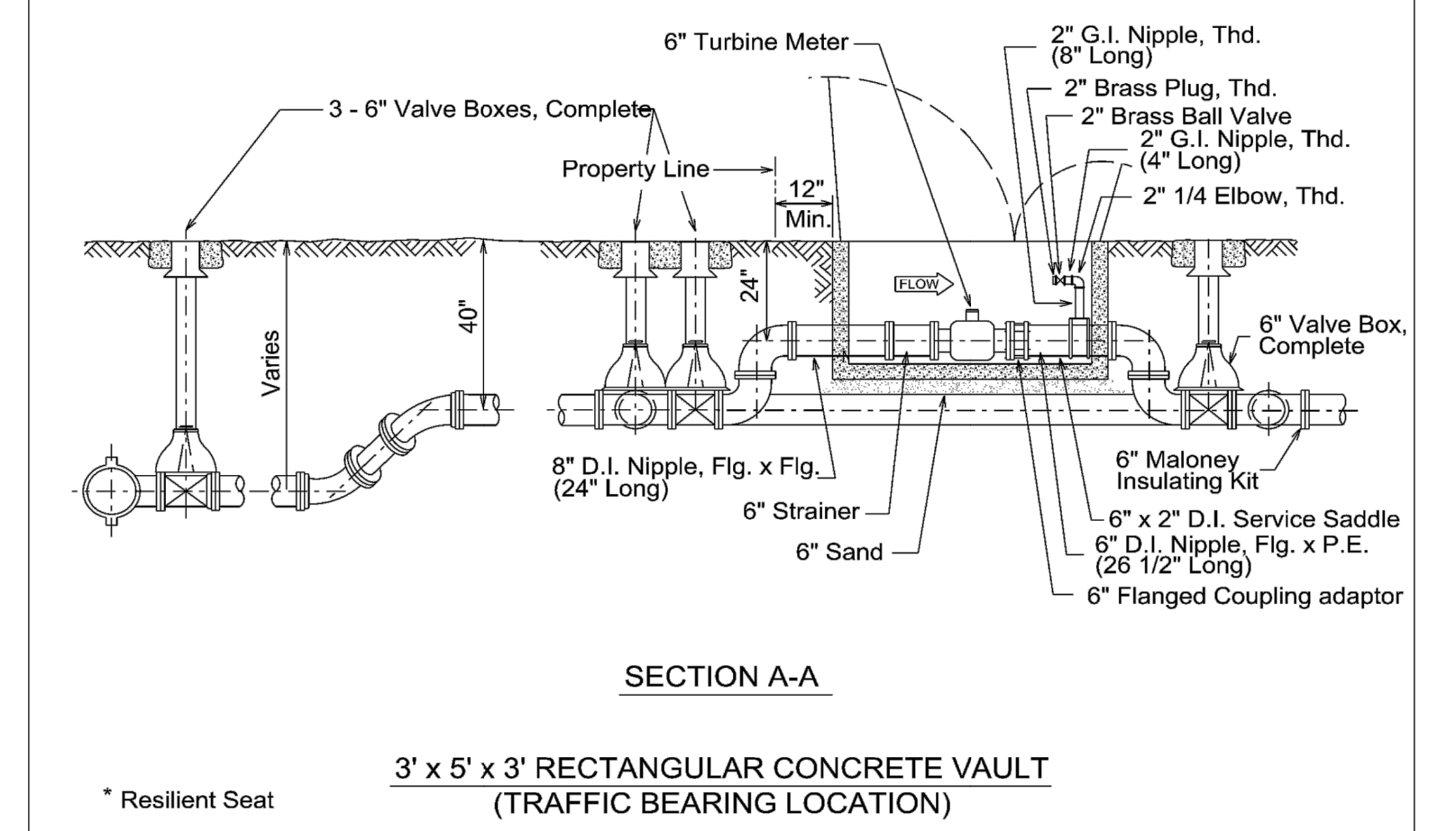


**PVC EMBEDMENT TRENCH**

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

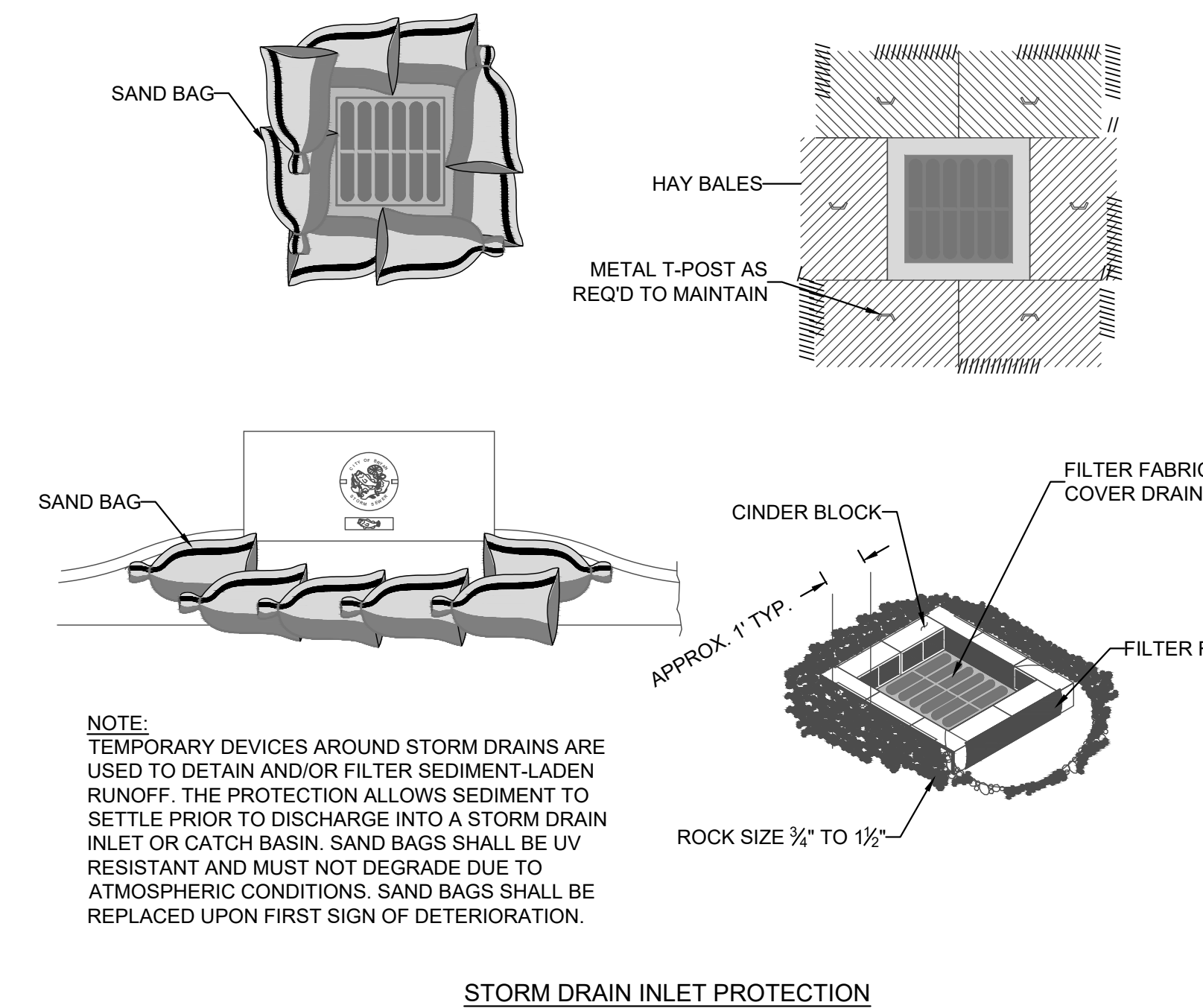


**PLAN**



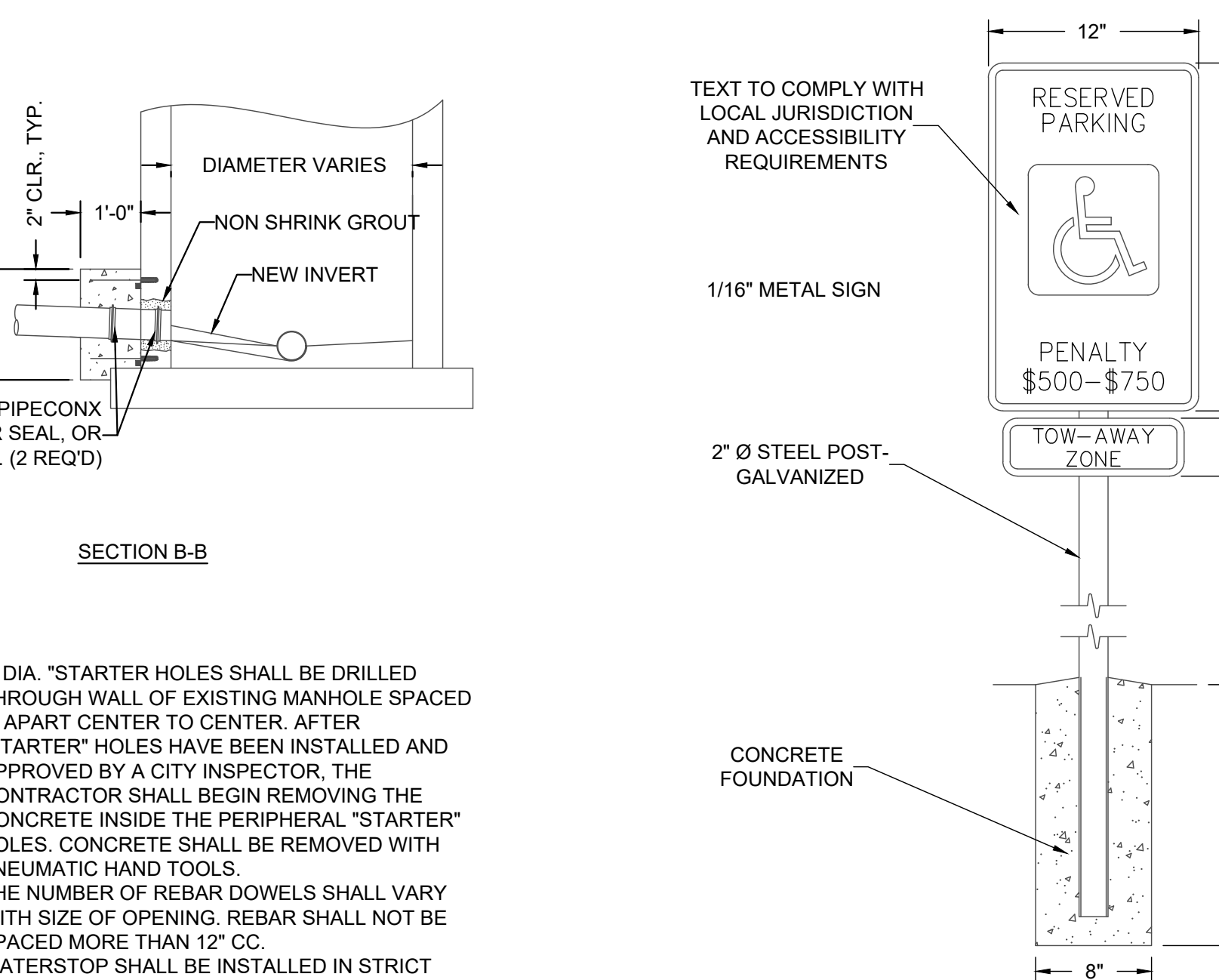
**SECTION A-A**

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



**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.



**ADA PARKING SIGN NTS**

TEXT TO COMPLY WITH LOCAL JURISDICTION AND ACCESSIBILITY REQUIREMENTS

1/16" METAL SIGN

2" Ø STEEL POST-GALVANIZED

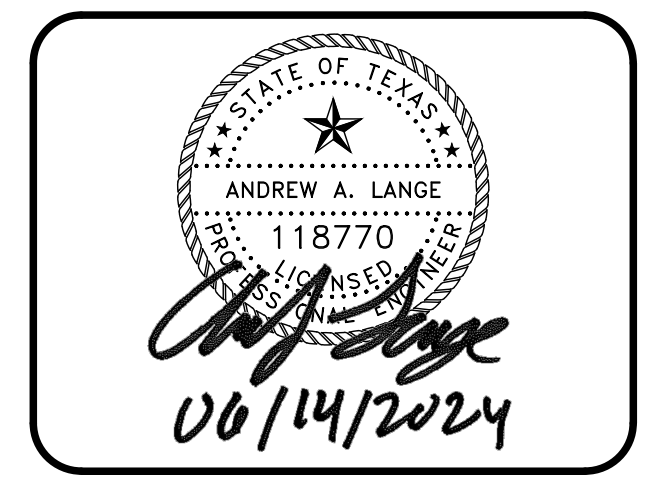
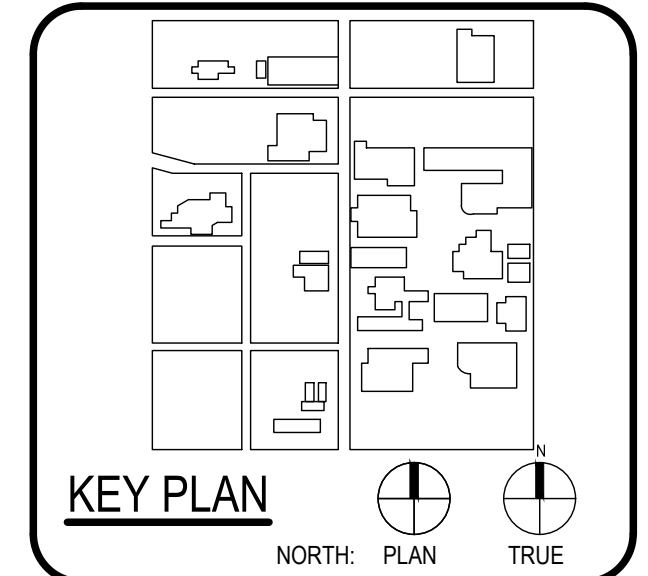
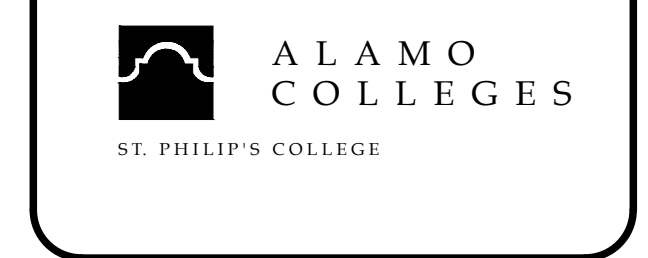
CONCRETE FOUNDATION

- 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.



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
1100 BRIDGE	
SAN ANTONIO, TX 78205	
LANDSCAPE	
LUNY & HALL ENGINEERING	
1111 BROADWAY	
SAN ANTONIO, TX 78205	
CONTRACTOR	
MEAN PROJECTS	
1111 BROADWAY	
SAN ANTONIO, TX 78205	

**WFAC Black Box Addition PKG 1**  
 600 S Alhambra 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**

**C1201**

### REINFORCING STEEL

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
Q	#4	12"	10'-0"	40
R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
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G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
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R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

#### GENERAL NOTES

- IF REINFORCING STEEL IS TO BE USED IN ACCORDANCE WITH THE LATEST TOOLS CODE REINFORCING STEEL TYPE C & D.
- TYPE C REINFORCING STEEL SHALL BE USED UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- QUANTITIES SHOWN ARE FOR CONSTRUCTION INFORMATION ONLY.
- CONCRETE FOR STRUCTURES SHALL BE CLASS "C" CONCRETE.
- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 1 1/2".
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-618, GRADE 60 REQUIREMENTS.
- ALL CORNER COVERS SHALL BE COVERED 3" MIN.
- DEPRESSION SLAB SHALL RECEIVE A WOOD FLIGHT FORM.
- FACE OF INLET TO CONFORM TO FACE OF CURB LINE.
- ALL BARS REINFORCING MANHOLE RINGS & COVERS SHALL BE CUT ON BEND.
- PAYMENT FOR ALL REINFORCING SHALL BE MADE TO THE CONTRACTOR UPON DELIVERY AND COVER SHALL BE INCLUDED IN THE UNIT COST OF ITEM AS TYPICAL BARS AND JOINTS ARE NOTED.
- CUT BARS MANHOLE RINGS AND COVERS TO BE PLACED NEXT TO OUTLET PIPE EXCEPT FOR VERTICAL OUTLET PIPE IN WHICH CASE MANHOLE RING AND COVER WILL BE OFFSET.
- MANHOLE RINGS MANHOLE RINGS AND COVERS ARE SUBJECT TO RULES.
- THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MEANS TO LIFT AND PLACE THE RINGS AND COVERS PROPERLY.
- ALL BARS AT THE BACKSTOP LOCATIONS SHALL BE CUT ON BEND.
- ALL LOWER UNITS SHALL RECEIVE WOOD FLIGHT FORMING.
- PIPE BACKSTOP IN INLET WALLS SHOULD NOT EXCEED 2" BEYOND THE CURB LINE.
- ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
- CONSTRUCTION JOINTS SHALL BE PLACED AT THE END OF THE PIPE AND COVER.

#### PHASE CONSTRUCTION

NOTES FOR PHASE CONSTRUCTION WHEN DIRECTED BY THE ENGINEER:

- THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED TO A DEPTH TO BEAT THE INLET AND EXTENSION TYPE C & D.
- UPON THE CURB INLET AND EXTENSION WITH A 1/2" SLAB APPROVED BY THE ENGINEER AND CONSTRUCT THE HIGHWAY OVER THE SLAB.
- AFTER THE HIGHWAY IS COMPLETED FROM THE FINAL FINISH COURSE THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED TO THE UPPER PORTION OF THE CURB INLET AND FOR EXTENSION.
- ALL BARS AT THE BACKSTOP LOCATIONS SHALL BE CUT ON BEND.
- ALL LOWER UNITS SHALL RECEIVE WOOD FLIGHT FORMING.
- PIPE BACKSTOP IN INLET WALLS SHOULD NOT EXCEED 2" BEYOND THE CURB LINE.
- ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.
- CONSTRUCTION JOINTS SHALL BE PLACED AT THE END OF THE PIPE AND COVER.

#### 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")

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
Q	#4	12"	10'-0"	40
R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

#### GENERAL NOTES

- WHEN INLET EXTENSIONS ARE REQUIRED FOR ON SLOPE SLOPE IN EXTENSION SHALL BE PLACED ON THE EXTENSION END OF THE INLET.
- FOR CURB INLET EXTENSION REINFORCING STEEL NOTES & MANHOLE ANCHORS SHALL BE PLACED ON THE SLAB NEXT TO BARS T & S.

#### 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

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")

BAR NO.	SIZE	SPAC.	LENGTH	WEIGHT
A	#4	12"	10'-0"	40
B	#4	12"	10'-0"	40
C	#4	12"	10'-0"	40
D	#4	12"	10'-0"	40
E	#4	12"	10'-0"	40
F	#4	12"	10'-0"	40
G	#4	12"	10'-0"	40
H	#4	12"	10'-0"	40
I	#4	12"	10'-0"	40
J	#4	12"	10'-0"	40
K	#4	12"	10'-0"	40
L	#4	12"	10'-0"	40
M	#4	12"	10'-0"	40
N	#4	12"	10'-0"	40
O	#4	12"	10'-0"	40
P	#4	12"	10'-0"	40
Q	#4	12"	10'-0"	40
R	#4	12"	10'-0"	40
S	#4	12"	10'-0"	40
T	#4	12"	10'-0"	40
U	#4	12"	10'-0"	40
V	#4	12"	10'-0"	40
W	#4	12"	10'-0"	40
X	#4	12"	10'-0"	40
Y	#4	12"	10'-0"	40
Z	#4	12"	10'-0"	40

#### GENERAL NOTES

- FOR LID DESIGN OUTSIDE OF CITY OF SAN ANTONIO, SEE THE MANHOLE RING AND COVER SPECIFICATIONS.
- CASTED RAILWAY AND MANUFACTURERS ID ON LID AND RING.
- LOAD BEARING CAPACITY OF 10-20 MPA.
- THE LOAD BEARING CAPACITY SHALL BE MARKED ON THE LID.
- THE CHAMFER WEIGHT OF THE MANHOLE RING AND COVER SHALL BE AT LEAST 80 LBS.

#### 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

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



ARCHITECT: SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-823-0123 P  
210-823-0578 F  
TX Firm BR 1608

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

ALAMO COLLEGES  
ST. PHILIP'S COLLEGE

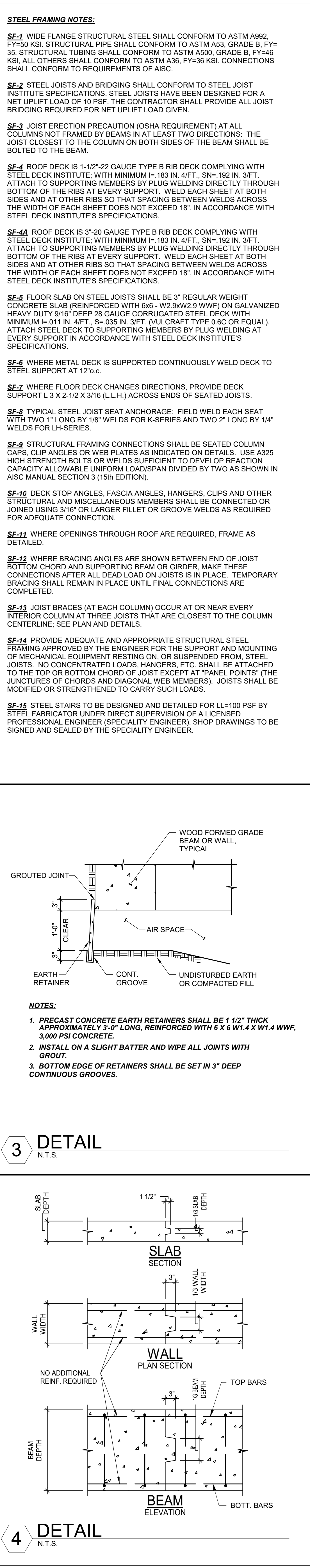
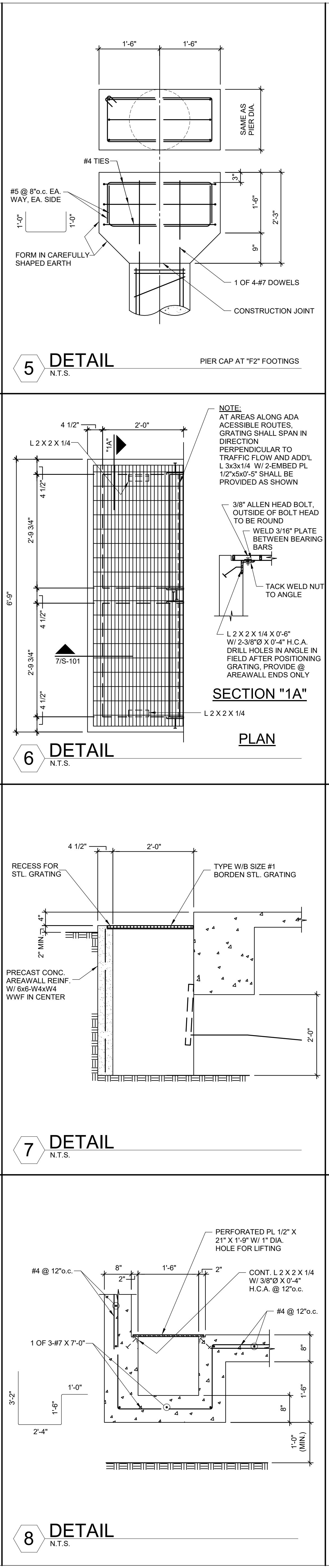
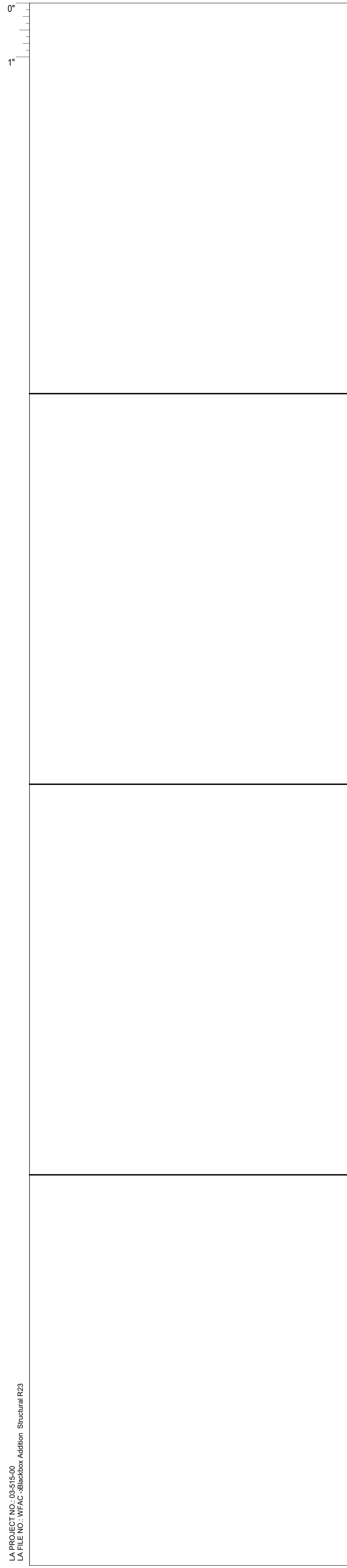
KEY PLAN  
NORTH PLAN TRUE

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

No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

DETAILS  
C1202



**STEEL FRAMING NOTES:**

**SE-1** WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, F<sub>y</sub>=50 KSI. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, F<sub>y</sub>=35. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, F<sub>y</sub>=46 KSI. ALL OTHERS SHALL CONFORM TO ASTM A36, F<sub>y</sub>=36 KSI. CONNECTIONS SHALL CONFORM TO REQUIREMENTS OF AISC.

**SE-2** STEEL JOISTS AND BRIDGING SHALL CONFORM TO STEEL JOIST INSTITUTE SPECIFICATIONS. STEEL JOISTS HAVE BEEN DESIGNED FOR A NET UPLIFT LOAD OF 10 PSF. THE CONTRACTOR SHALL PROVIDE ALL JOIST BRIDGING REQUIRED FOR NET UPLIFT LOAD GIVEN.

**SE-3** JOIST ERECTION PRECAUTION (OSHA REQUIREMENT) AT ALL COLUMNS NOT FRAMED BY BEAMS IN AT LEAST TWO DIRECTIONS: THE JOIST CLOSEST TO THE COLUMN ON BOTH SIDES OF THE BEAM SHALL BE BOLTED TO THE BEAM.

**SE-4** ROOF DECK IS 1-1/2" 22 GAUGE TYPE B RIB DECK COMPLYING WITH STEEL DECK INSTITUTE, WITH MINIMUM I=183 IN. 4/FT. S<sub>N</sub>=192 IN. 3/FT. ATTACH TO SUPPORTING MEMBERS BY PLUG WELDING DIRECTLY THROUGH BOTTOM OF THE RIBS AT EVERY SUPPORT. WELD EACH SHEET AT BOTH SIDES AND AT OTHER RIBS SO THAT SPACING BETWEEN WELDS ACROSS THE WIDTH OF EACH SHEET DOES NOT EXCEED 16", IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

**SE-4A** ROOF DECK IS 3" 20 GAUGE TYPE B RIB DECK COMPLYING WITH STEEL DECK INSTITUTE, WITH MINIMUM I=183 IN. 4/FT. S<sub>N</sub>=192 IN. 3/FT. ATTACH TO SUPPORTING MEMBERS BY PLUG WELDING DIRECTLY THROUGH BOTTOM OF THE RIBS AT EVERY SUPPORT. WELD EACH SHEET AT BOTH SIDES AND AT OTHER RIBS SO THAT SPACING BETWEEN WELDS ACROSS THE WIDTH OF EACH SHEET DOES NOT EXCEED 16", IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

**SE-5** FLOOR SLAB ON STEEL JOISTS SHALL BE 3" REGULAR WEIGHT CONCRETE SLAB (REINFORCED WITH #6 @ W2 @W2 (2 W/F)) ON GALVANIZED HEAVY DUTY 9/16" DEEP 28 GAUGE CORRUGATED STEEL DECK WITH MINIMUM I=111 IN. 4/FT. S<sub>N</sub>=103 IN. 3/FT. (VULCRAFT TYPE 06 OR EQUAL). ATTACH STEEL DECK TO SUPPORTING MEMBERS BY PLUG WELDING AT EVERY SUPPORT IN ACCORDANCE WITH STEEL DECK INSTITUTE'S SPECIFICATIONS.

**SE-6** WHERE METAL DECK IS SUPPORTED CONTINUOUSLY WELD DECK TO STEEL SUPPORT AT 12" O.C.

**SE-7** WHERE FLOOR DECK CHANGES DIRECTIONS, PROVIDE DECK SUPPORT L x X 2-1/2 X 3/16 (L.L.H.) ACROSS ENDS OF SEALED JOISTS.

**SE-8** TYPICAL STEEL JOIST SEAT ANCHORAGE: FIELD WELD EACH SEAT WITH TWO 1" LONG BY 1/8" WELDS FOR K-SERIES AND TWO 2" LONG BY 1/4" WELDS FOR LH-SERIES.

**SE-9** STRUCTURAL FRAMING CONNECTIONS SHALL BE SEATED COLUMN CAPS, CLIP ANGLES OR WEB PLATES AS INDICATED ON DETAILS. USE A325 HIGH STRENGTH BOLTS OR WELDS SUFFICIENT TO DEVELOP REACTION CAPACITY ALLOWABLE UNIFORM LOAD/SPAN DIVIDED BY TWO AS SHOWN IN AISC MANUAL SECTION 3 (15th EDITION).

**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 AS REQUIRED FOR ADEQUATE CONNECTION.

**SE-11** WHERE OPENINGS THROUGH ROOF ARE REQUIRED, FRAME AS DETAILED.

**SE-12** WHERE BRACING ANGLES ARE SHOWN BETWEEN END OF JOIST BOTTOM CHORD AND SUPPORTING BEAM OR GIRDER, MAKE THESE CONNECTIONS AFTER ALL DEAD LOAD ON JOISTS IS IN PLACE. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL FINAL CONNECTIONS ARE COMPLETED.

**SE-13** JOIST BRACES (AT EACH COLUMN) OCCUR AT OR NEAR EVERY INTERIOR COLUMN AT THREE JOISTS THAT ARE CLOSEST TO THE COLUMN CENTERLINE. SEE PLAN AND DETAILS.

**SE-14** PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING AND/OR BRACING FOR THE APPLICABLE WELDING CODE. BEND TESTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL JOISTS, NOT CONCENTRATED LOADS, HANGERS, ETC. SHALL BE ATTACHED TO THE TOP OR BOTTOM CHORD OF JOIST EXCEPT AT "PANEL POINTS" (THE JUNCTURES OF CHORDS AND DIAGONAL WEB MEMBERS). JOISTS SHALL BE MODIFIED OR STRENGTHENED TO CARRY SUCH LOADS.

**SE-15** STEEL STAIRS TO BE DESIGNED AND DETAILED FOR LL=100 PSF BY STEEL FABRICATOR UNDER DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER (SPECIALTY ENGINEER). SHOP DRAWINGS TO BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER.

**CONCRETE NOTES:**

**CA-1** CONCRETE SHALL BE LABORATORY DESIGNED TO DEVELOP MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS GIVEN BELOW. REFER TO SPECIFICATIONS FOR AGGREGATES, CEMENT, ADMIXTURES, ETC.

DRILLED PIERS & PIER CAPS ..... 4,000 PSI  
 GRADE BEAMS, SLABS-ON-GRADE ..... 3,000 PSI  
 BEAMS AND FLAT SLAB FLOOR SYSTEM ..... 4,000 PSI  
 BEAM, GIRDER, AND JOIST FLOOR SYSTEM ..... 4,000 PSI  
 SLABS ON METAL FORMS ..... 3,000 PSI  
 COMPOSITE SLABS ON METAL FORMS ..... 4,000 PSI  
 COLUMNS AND WALLS ..... SEE SCHEDULE  
 PRECAST CONCRETE ..... 5,000 PSI

NOTE: FLY ASH WILL BE PERMITTED UP TO 20% PORTLAND CEMENT REPLACEMENT PFR TYPE I, II, III, IV, NO FLY ASH FOR TYPE II, REFER TO SPECIFICATIONS.

**CA-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 A106-GR 60 ..... HEADED CONCRETE ANCHORS  
 ASTM A496 ..... DEFORMED BAR ANCHORS

**CA-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 DIPPED GALVANIZED AFTER FABRICATION.

**CA-4** PROVIDE BAR LAPS AND SPLICES PER REINFORCING BAR LAP SPLICE TABLE BELOW. USE "CORNER DETAILS" FOR CONTINUOUS BARS AT CORNERS. SPIRALS SHALL BE LAPPED 1-1/2 TURNS. WELDED WIRE MESH SHALL BE LAPPED 3" MINIMUM AT SPLICE POINTS, OR 1-1/2 MESHES, WHICHEVER IS GREATEST.

**CA-5** CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE FORMING SO THAT NOT MORE THAN 400 CUBIC YARDS IS POURED IN ONE DAY. LOCATION OF CONSTRUCTION JOINTS MUST HAVE PRIOR APPROVAL OF STRUCTURAL ENGINEER OF RECORD AND SHALL GENERALLY BE LOCATED AT OR NEAR MID-POINTS OF SPANS OF SLAB, BEAMS AND WALLS. ALL CONTINUOUS REINFORCING SHALL BE CARRIED THROUGH THE JOINT. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS.

**CA-6** SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZES OF ALL SLAB OPENINGS AND SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY ABOVE.

**CA-7** REFER TO ARCHITECTURAL DRAWINGS FOR ALL FLOOR FINISHES, DIMENSIONS AND LOCATIONS OF SLAB DROPS AND DEPRESSIONS.

**CA-8** MECHANICAL AND ELECTRICAL CONDUITS IN SLABS SHALL RUN UNDER THE TOP LAYER OF SLAB REINFORCING OR WELDED WIRE FABRIC. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS, AND BETWEEN CONDUIT AND PARALLEL REINFORCING. DO NOT "BUNDLE" CONDUITS.

**CA-9** "HEADED CONCRETE ANCHORS" (HCA) SHALL BE OF 50,000 PSI STEEL ROD WITH UPSET ENDS, AUTOMATICALLY ARC WELDED THROUGH CERAMIC FERRULES, "NELSON CONCRETE ANCHORS" OR EQUAL.

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. THEY MAY ALSO BE MADE DURING THE PRODUCTION RUN OR AT THE BEGINNING OF A SHIFT TO ENSURE THAT WELDING CONDITIONS HAVE NOT CHANGED. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. ACCEPTABLE BENDING SHOULD BE DETERMINED WHEN THE WELDING PROCEDURE SPECIFICATION IS ESTABLISHED OR FROM THE APPLICABLE WELDING CODE. BEND TESTING MAY DAMAGE THE STUD. THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. SPECIAL TOOLING MAY BE REQUIRED TO GRIP THE STUD PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

MECHANICAL TESTING OF HCA IN FIELD  
 MECHANICAL TESTS SHALL BE MADE IN THE FIELD BEFORE PLATES ARE INSTALLED IN CONCRETE. THE CONTRACTOR SHALL SUPPLY A MINIMUM OF ADDITIONAL PER 50 PLATES OF EACH TYPE OR ADDITIONAL STUDS SHALL BE PLACED ON SPECIAL CONFIGURATION PLATES AND MEMBERS. THESE STUDS SHALL BE TESTED IN THE FIELD. ARC WELDED STUDS ARE TESTED BY BENDING THE STUD. BENDING MAY BE DONE BY STRIKING THE STUD WITH A HAMMER OR BY BENDING IT USING A TUBE OR PIPE. THE ANGLE THROUGH WHICH THE STUD WILL BEND WITHOUT WELD FAILURE WILL DEPEND ON THE STUD AND BASE METAL COMPOSITIONS, CONDITIONS (COLD WORKED, HEAT TREATED), AND STUD DESIGN. BEND TESTING MAY DAMAGE, THUS THEY MAY NOT BE USED. THE STUD, THEREFORE, IT SHOULD BE DONE ON QUALIFICATION SAMPLES ONLY. THE METHOD USED TO APPLY TENSILE LOAD ON AN ARC WELDED STUD WILL DEPEND ON THE STUD DESIGN. PROPERLY WITHOUT DAMAGE, AND A SPECIAL LOADING DEVICE MAY BE NEEDED.

**CA-10** REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS. ALL TESTING SHALL BE AT POINT OF DISCHARGE. IF PUMP IS USED, TESTING SHALL BE AT THE END OF THE HOSE.

**GENERAL NOTES:**

**GA-1** THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2021) AS AMENDED AND ADOPTED BY THE GOVERNING AUTHORITY, AND APPLICABLE INDUSTRY STANDARDS (AISC, ACI, ETC.).

**GA-2** THE DESIGN LOADS ARE:

SUPERIMPOSED DEAD LOADS ..... 100 PSF  
 OFFICES ..... 50 PSF  
 MOVABLE PARTITIONS ..... 20 PSF  
 MECHANICAL ROOMS ..... 150 PSF  
 (NON REDUCIBLE)

ASSEMBLY AREAS: ..... 60 PSF  
 FIXED SEATS ..... 100 PSF  
 LOBBIES ..... 100 PSF  
 STAGES & PLATFORMS ..... 125 PSF  
 CATWALKS ..... 40 PSF

ROOF LIVE LOAD  
 FLAT ROOF ..... 20 PSF  
 PITCHED ROOF ..... 20 PSF

ROOF SNOW LOAD  
 GROUND SNOW P<sub>s</sub> ..... 5 PSF  
 SNOW EXPOSURE FACTOR C<sub>e</sub> ..... 1.0  
 SNOW LOAD IMPORTANCE FACTOR I<sub>s</sub> ..... 1.1  
 THERMAL FACTOR C<sub>t</sub> ..... 1.0

WIND LOAD  
 BASIC WIND SPEED (ULTIMATE DESIGN) ..... 120  
 BUILDING CATEGORY ..... III  
 WIND EXPOSURE ..... C

EARTHQUAKE LOADS  
 SITE CLASS ..... D  
 SPECTRAL RESPONSE ACCELERATION S<sub>s</sub> ..... 14%  
 SPECTRAL RESPONSE ACCELERATION S<sub>1</sub> ..... 3%  
 SPECTRAL RESPONSE COEF. S<sub>DS</sub> ..... 14%  
 SPECTRAL RESPONSE COEF. S<sub>1D</sub> ..... 5%  
 SEISMIC DESIGN CATEGORY ..... A

RETAINING WALLS  
 GLOBAL STABILITY ANALYSIS FACTOR OF SAFETY ..... 1.5  
 TYPE ..... CANTILEVER  
 EQUIVALENT FLUID PRESSURE ..... 50 PCF  
 BACKFILL ..... DRAINED/ON SITE  
 FOOTING BEARING ..... 1,500 PSF  
 SURCHARGE ..... 200 PSF

**GA-3** ALLOWABLE STRESS DESIGN LOAD COMBINATIONS (FOR ALL DESIGNS EXCEPT CONCRETE)

D  
 D+L  
 D+(L<sub>r</sub> or S or R)  
 D+0.75L<sub>r</sub>+0.75(L<sub>r</sub> or S or R)  
 D+(0.6W)  
 D+0.75L<sub>r</sub>+0.75(0.6W)+0.75(L<sub>r</sub> 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(L<sub>r</sub> or S or R)  
 1.2D+1.6(L<sub>r</sub> or S or R)+0.5W  
 1.2D+1.0W+1.0L+0.5(L<sub>r</sub> or S or R)  
 0.9D+1.0W  
 1.2D+1.0L+0.2S

**GA-4** 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.

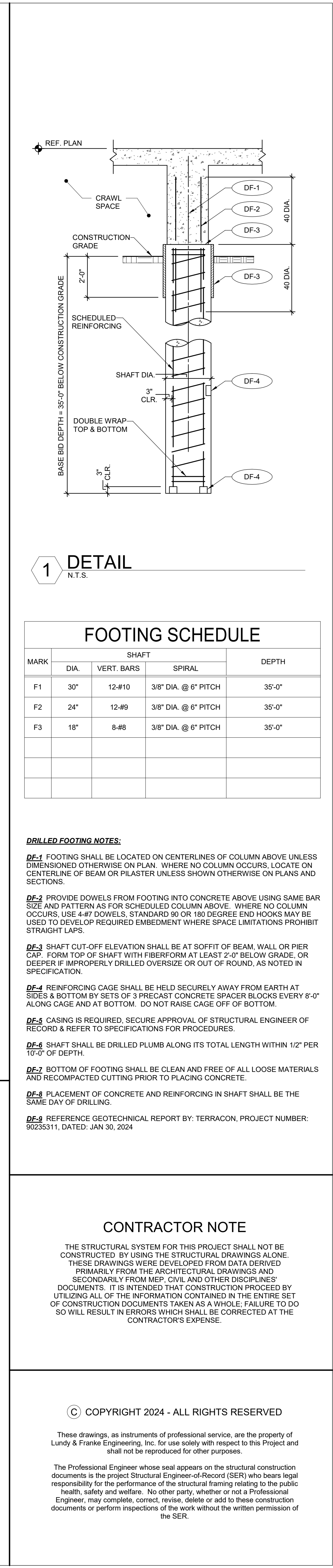
**GA-5** PROVIDE PENETRATING BUILDING SHALL BE FLEXIBLE, USING SLEEVE JOINTS, BENDS, LOOPS, ETC. TO PERMIT MOVEMENTS DUE TO EXPANSIVE UNDERLYING SOILS.

**GA-6** PROVIDE ADEQUATE AND APPROPRIATE STRUCTURAL STEEL FRAMING FOR THE SUPPORT AND MOUNTING OF MECHANICAL EQUIPMENT RESTING ON, OR SUSPENDED FROM, STEEL SUPERSTRUCTURE.

**GA-7** THE STRUCTURAL DRAWINGS FOR THIS PROJECT ARE COPYRIGHTED AND SHALL NOT BE REPRODUCED FOR USE AS FABRICATOR'S ERECTION DRAWINGS. THE CONTRACTOR SHALL ALLOW ADEQUATE TIME AND EXPENSE FOR SUBCONTRACTORS TO PRODUCE THEIR OWN ORIGINAL REVISION AND PLACEMENT DRAWINGS.

**GA-8** THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEEDS THE DESIGN LOADS WILL REQUIRE REANALYSIS AND PROBABLE REDESIGN.

**GA-9** PROVIDE 1.0 TONS OF EXTRA REINFORCING STEEL. DETAILING, LABOR FOR PLACING AND FABRICATION AS DIRECTED IN THE FIELD AND SHOP.



**PRK ARCHITECTS**

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 210-829-5578 F  
 TX Firm BR 1608

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

ALAMO COLLEGES  
 ST. PHILLIP'S COLLEGE

KEY PLAN  
 NORTH PLAN TRUE

DATE: 06/15/2024  
 SHAWN J. FRANKIE  
 LICENSED PROFESSIONAL ENGINEER

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

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER: AB

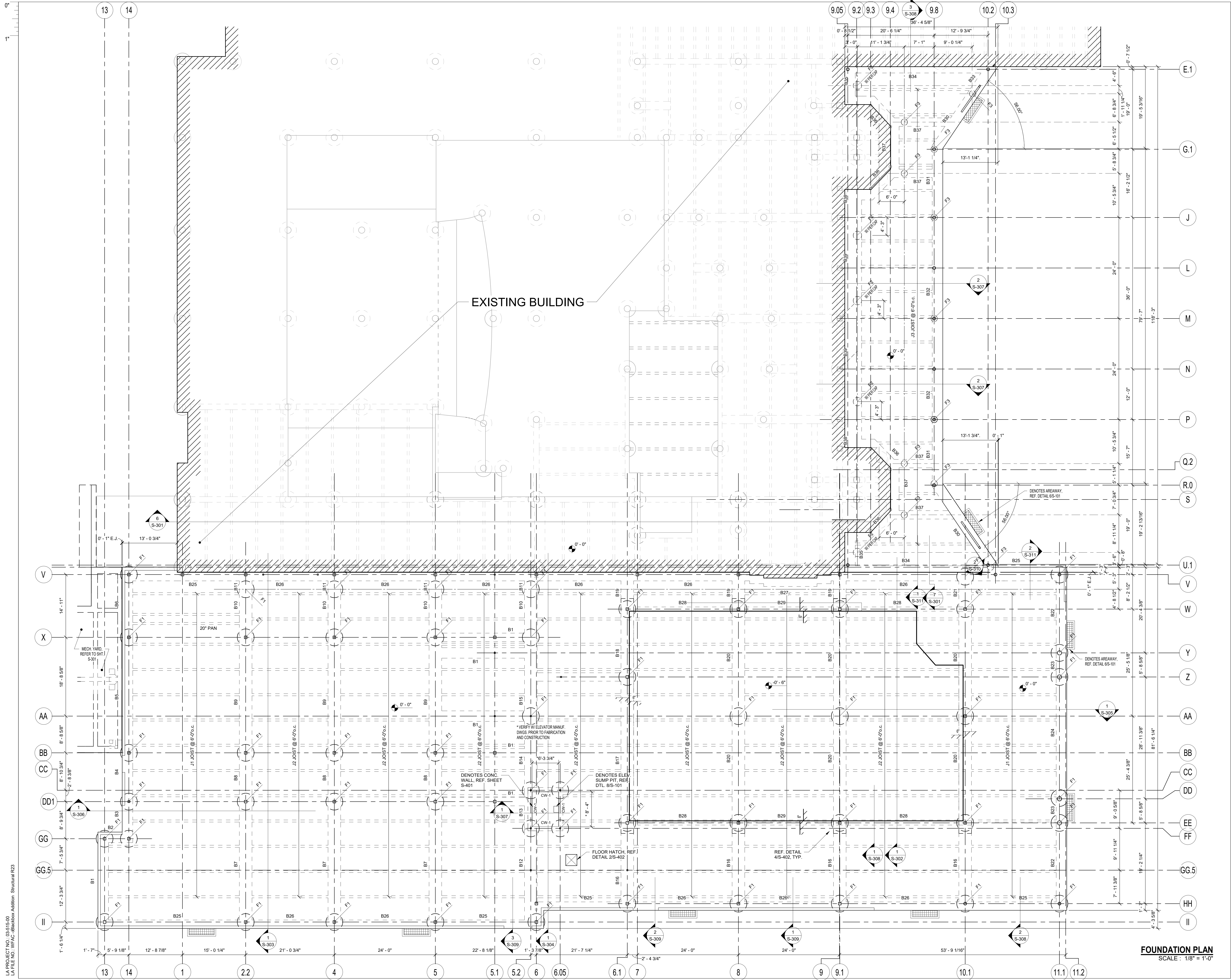
NOTES, SECTIONS & DETAILS

S-101





ISSUE FOR CONSTRUCTION



LA PROJECT NO. 03515-00  
LA FILE NO. WFAC-Blackbox Addition, Structural R23

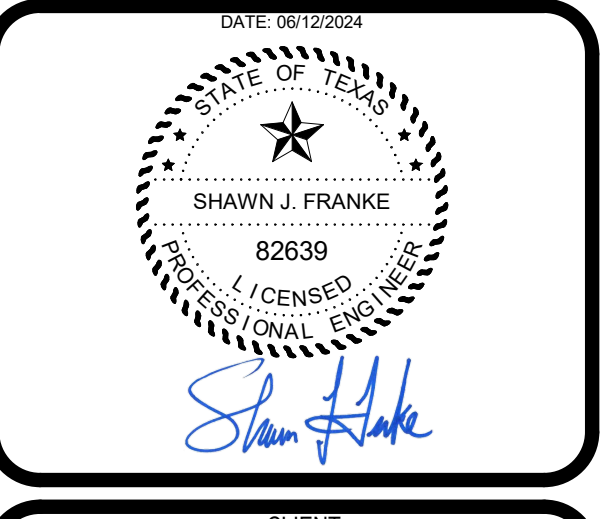
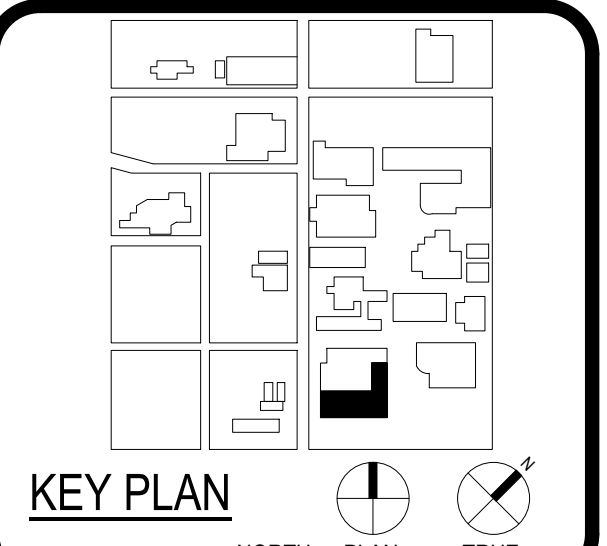
FOUNDATION PLAN  
SCALE: 1/8" = 1'-0"



ARCHITECT SAN ANTONIO PBK Architects, Inc.  
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San Antonio, TX 78216  
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ENGINEERING  
LUNDY & FRANKE  
580 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 018 979-7800  
TX FIRM REG. #3888

WFAC Black Box Addition PKG 1



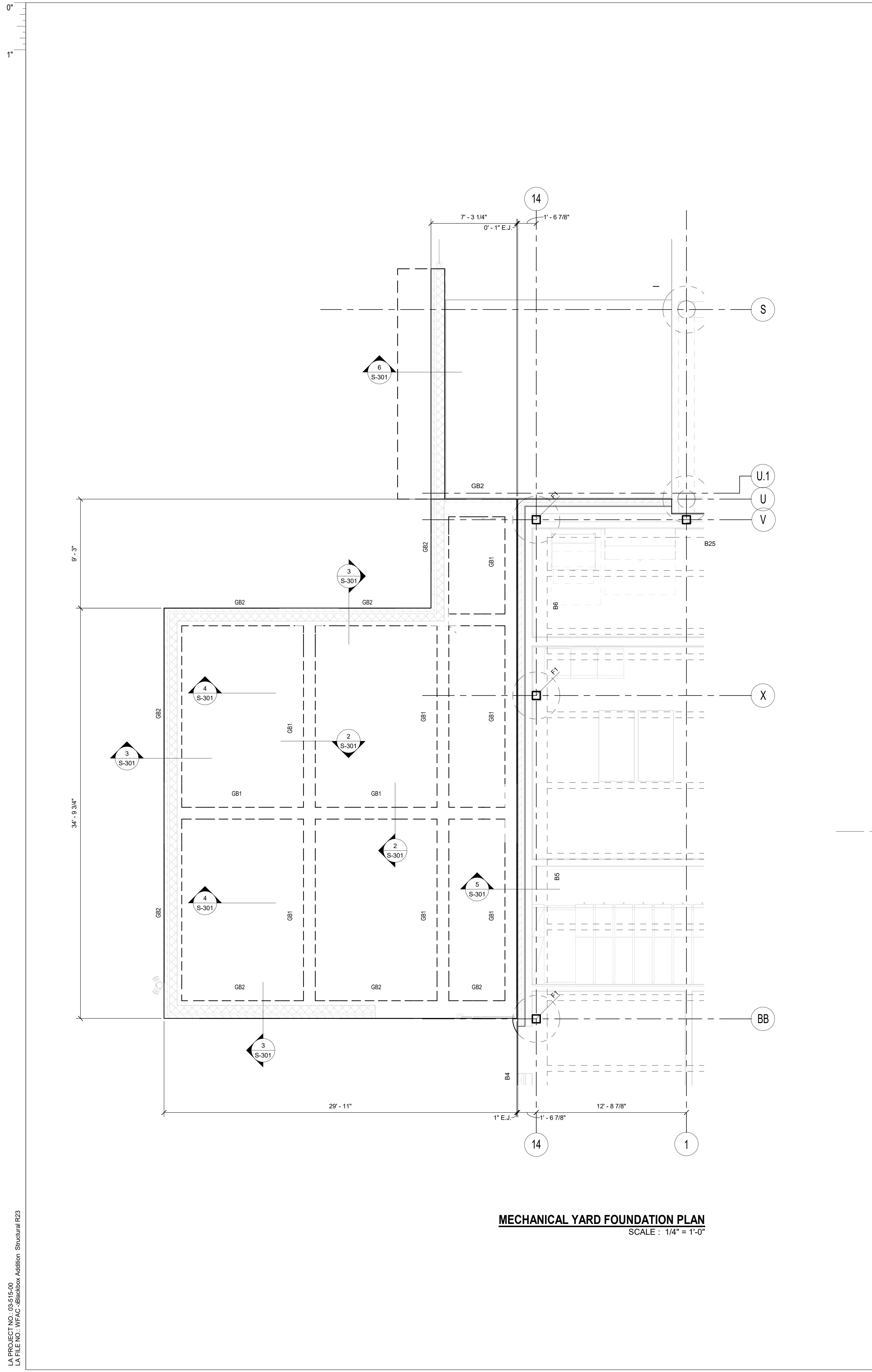
CLIENT: Alamo Colleges  
DATE: 2024/05/23 PROJECT NUMBER: 230462

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

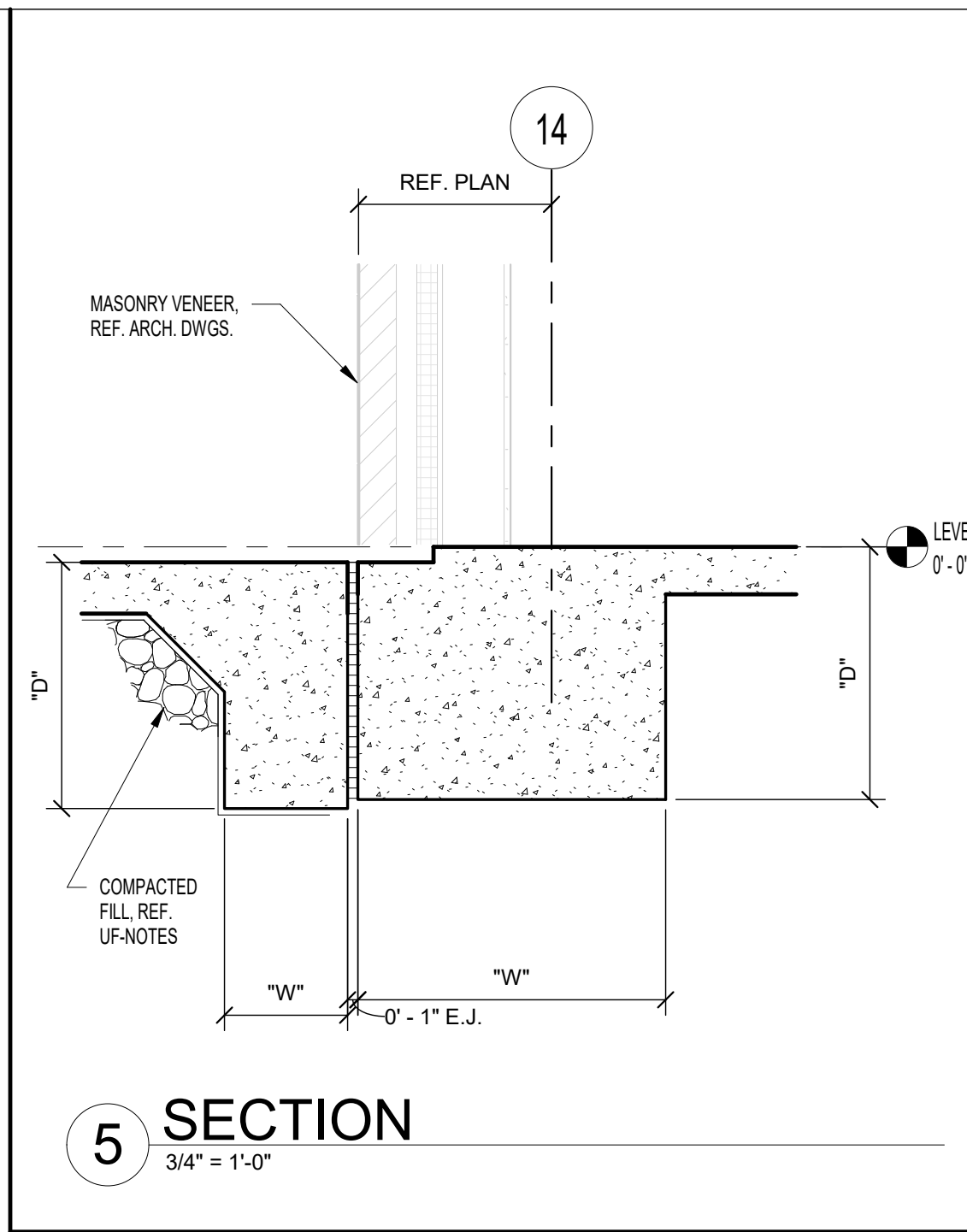
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

FOUNDATION FRAMING PLAN

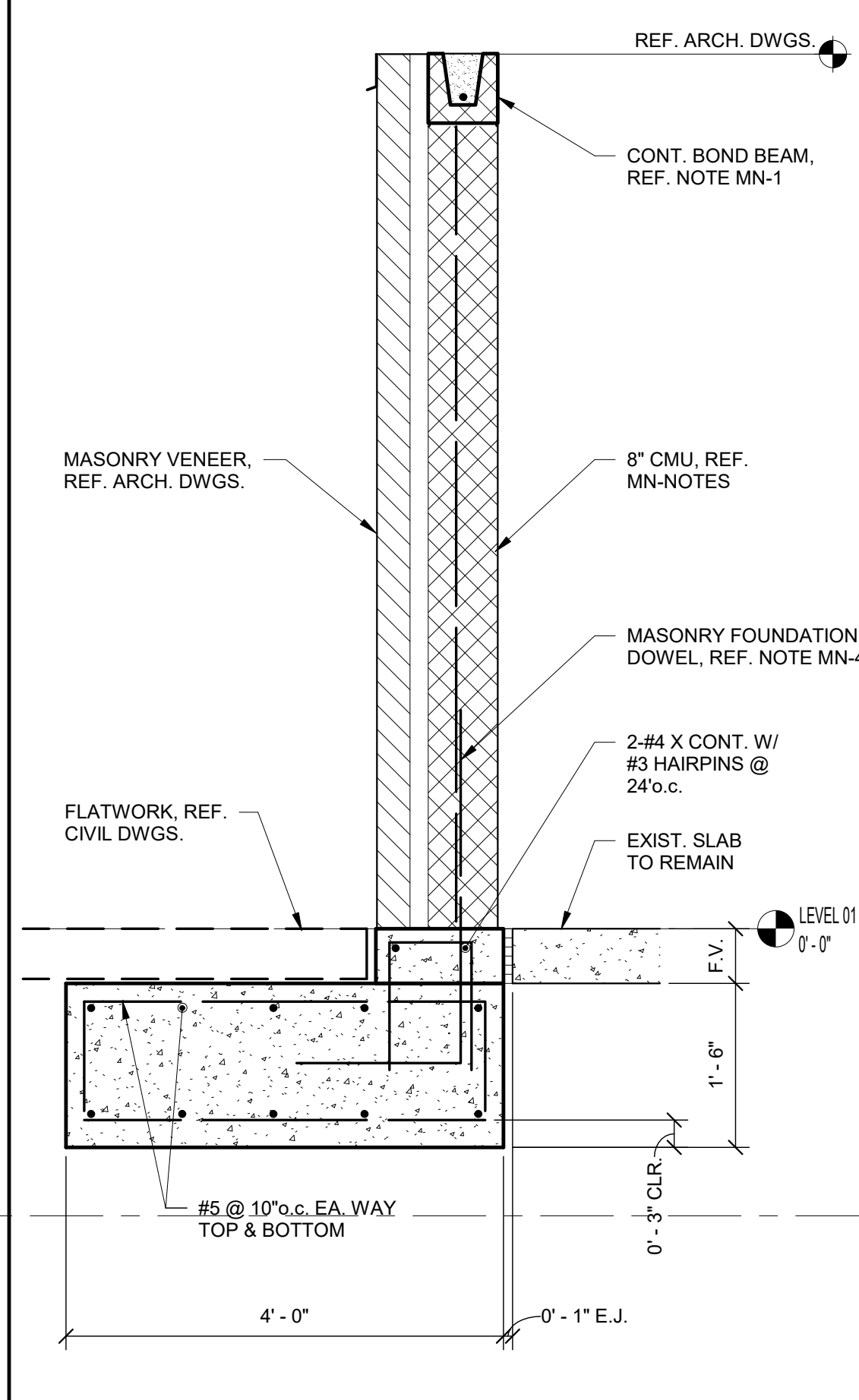
S-201



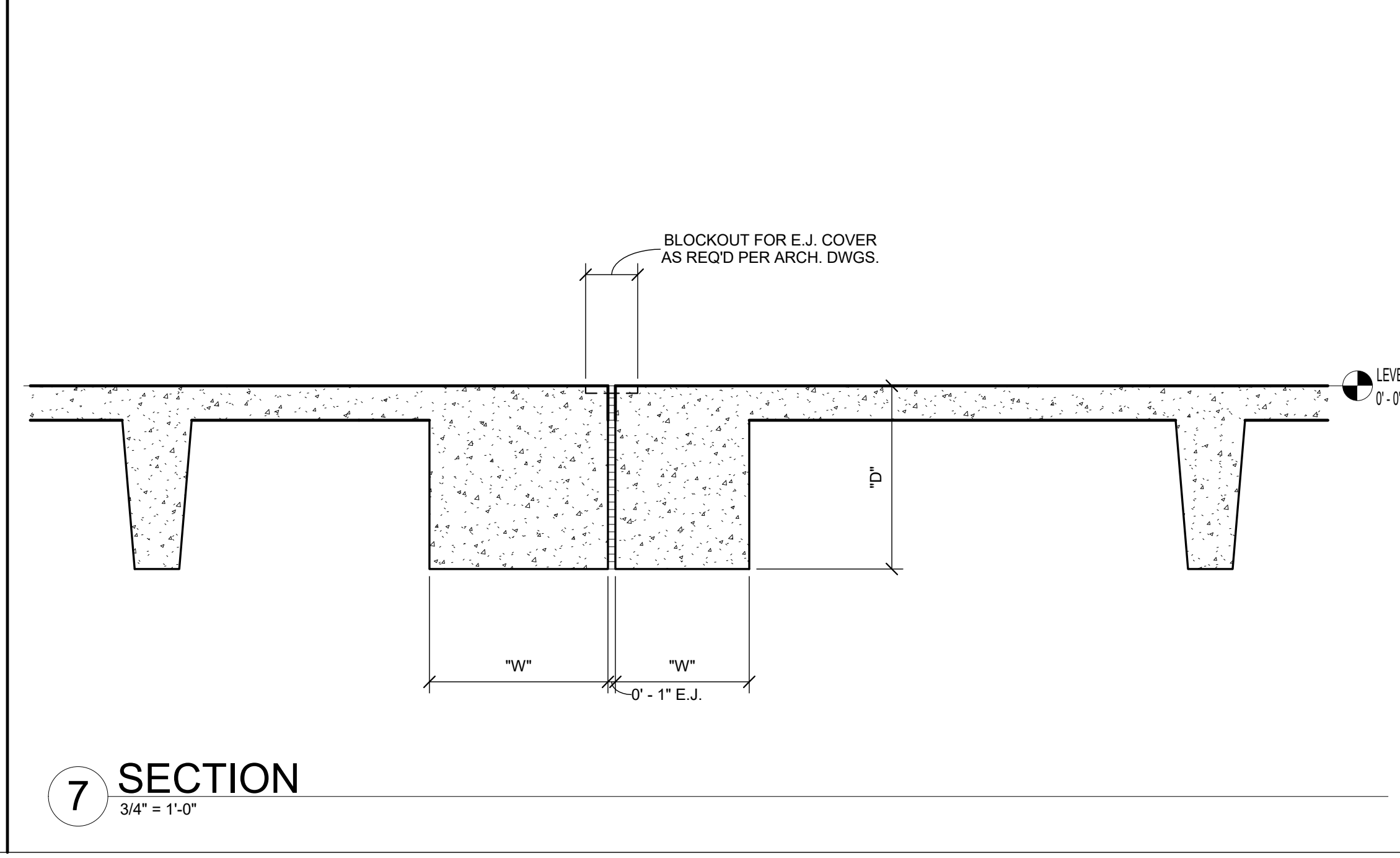
**MECHANICAL YARD FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



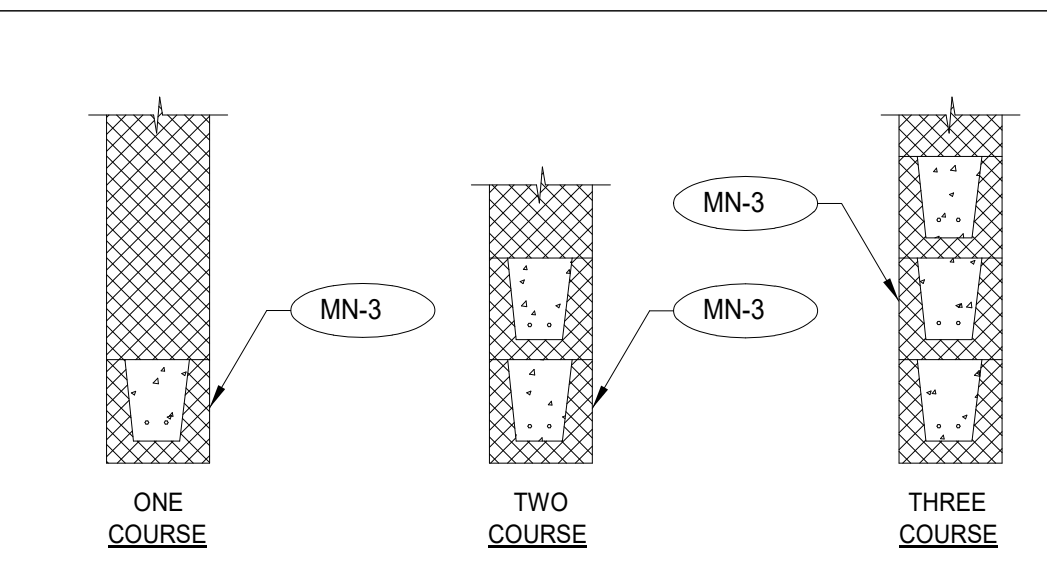
**5 SECTION**  
3/4" = 1'-0"



**6 SECTION**  
3/4" = 1'-0"



**7 SECTION**  
3/4" = 1'-0"



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

**MASONRY WALL REINFORCEMENT:**

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

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

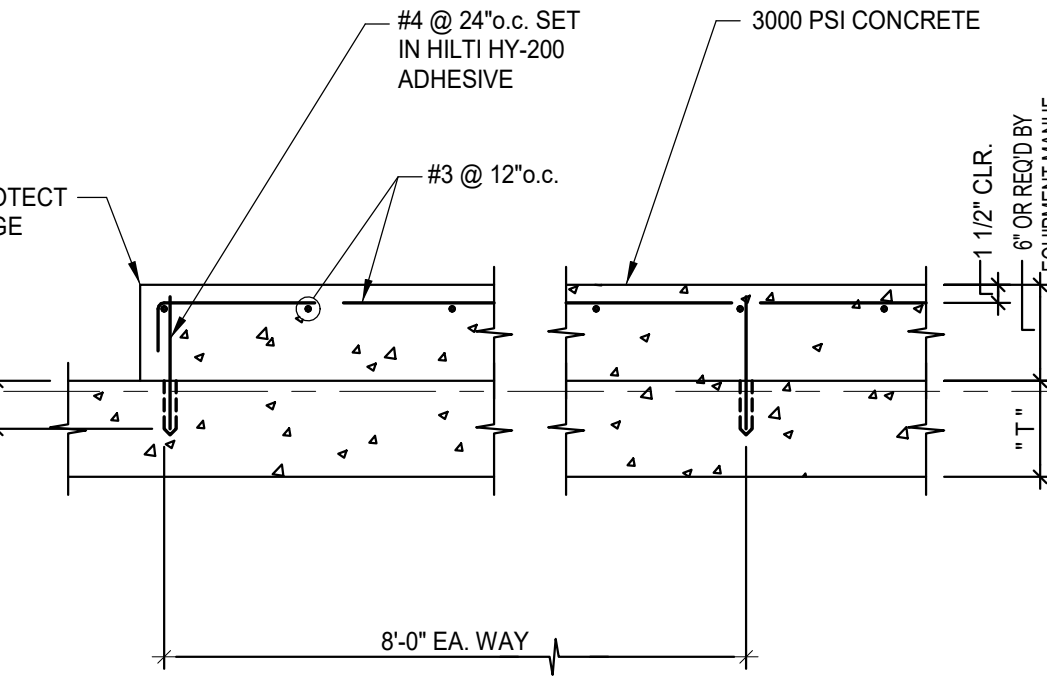
**MN-3** PROVIDE GROUDED REINFORCED LINTELS WITH 8" BEARING EACH END OF ALL DOORS, WINDOWS, AND OTHER OPENINGS. USE ONE-COURSE LINTELS FOR OPENINGS UP TO 4'-0"; TWO-COURSE LINTELS FOR OPENINGS UP TO 8'-6"; THREE-COURSE LINTELS FOR OPENINGS UP TO 14'-0". REINFORCE EACH COURSE WITH 2-#5 BAR CONTINUOUS.

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

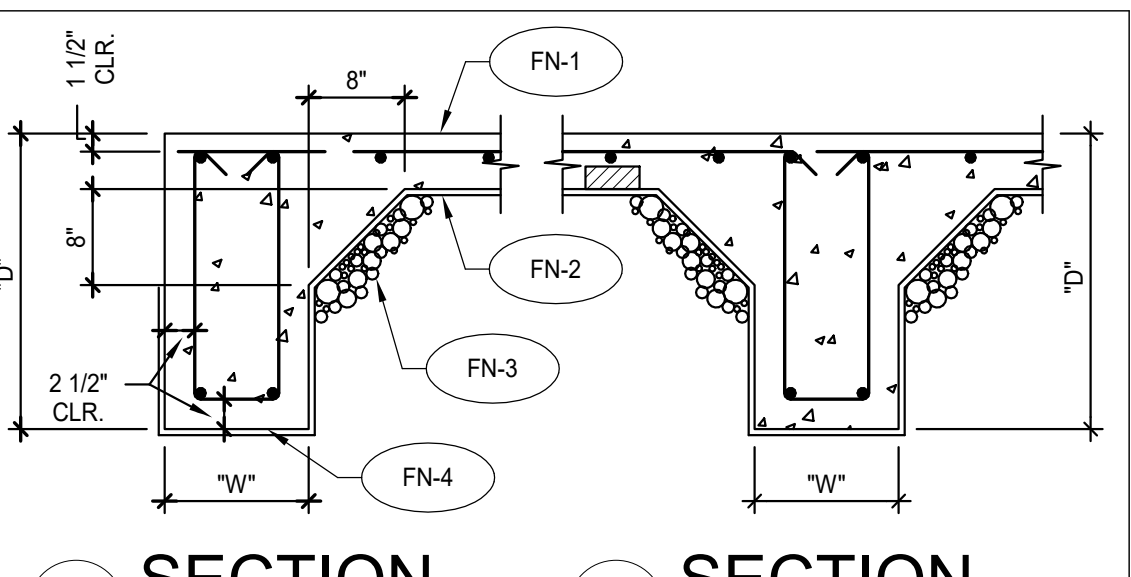
**MN-5** CMU SHALL HAVE A UNIT STRENGTH OF 1,900 PSI. USE TYPE S MORTAR. REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI. GROUT FOR FILLED CELLS SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATIO OF 1:3:2 AND SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

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

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



**4 DETAIL**  
N.T.S.



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

\* REF. NOTE FN-4

**FOUNDATION NOTES:**

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

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

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

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

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

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

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

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

**UNDERFLOOR FILL NOTES:**

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

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

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

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

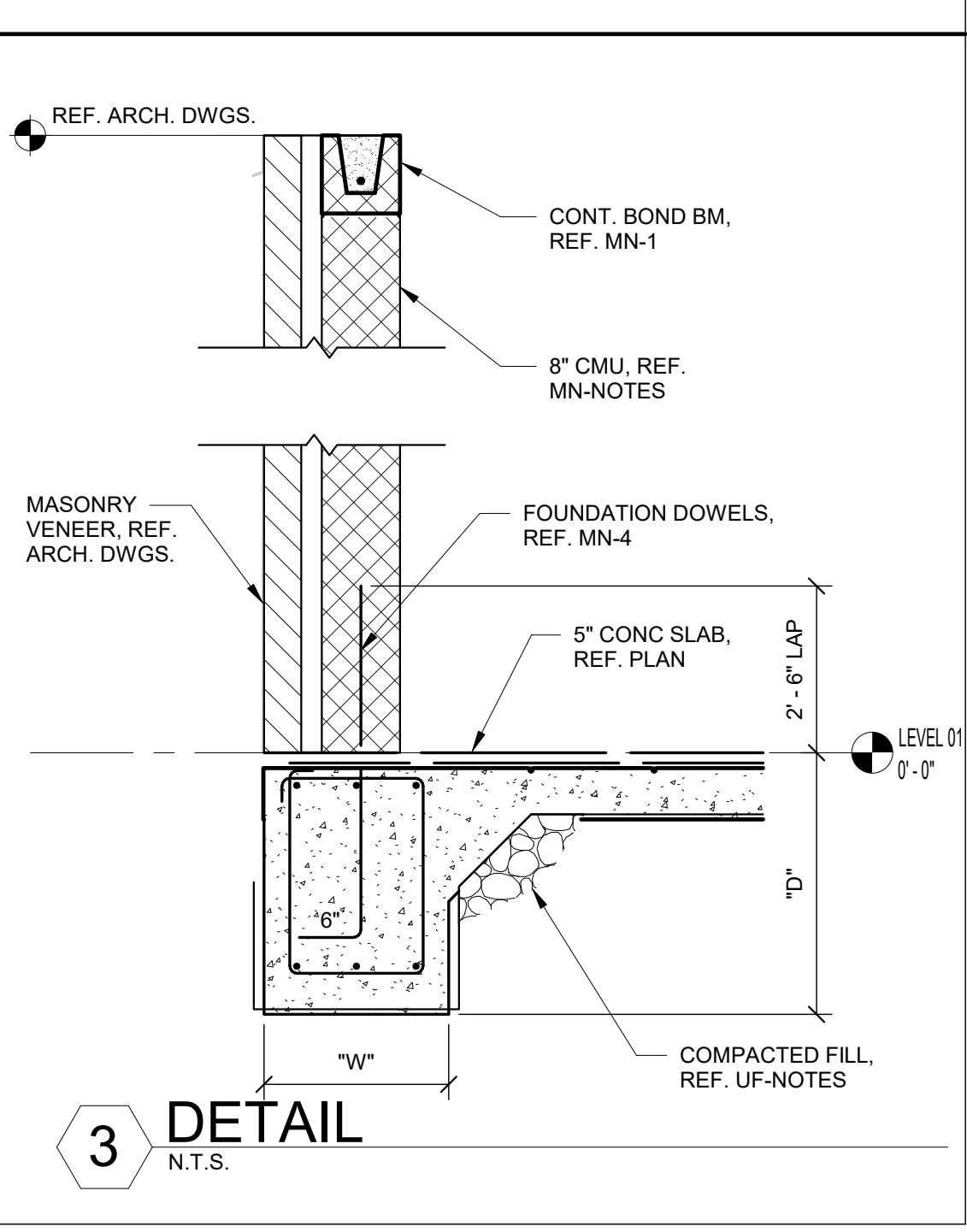
**UF-5** THE ROLLED SUBGRADE SHALL BE SCARIFIED JUST PRIOR TO FILL PLACEMENT TO A MINIMUM DEPTH OF 6" AND RECOMPACTED TO MINIMUM OF 95% OF THE MAXIMUM DENSITY DETERMINED BY ASTM D698 COMPACTION TEST, MAINTAINING MOISTURE CONTENT BETWEEN -1 AND +3 PERCENTAGE POINTS UNTIL COVERED.

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

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

**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 ?.



**3 DETAIL**  
N.T.S.

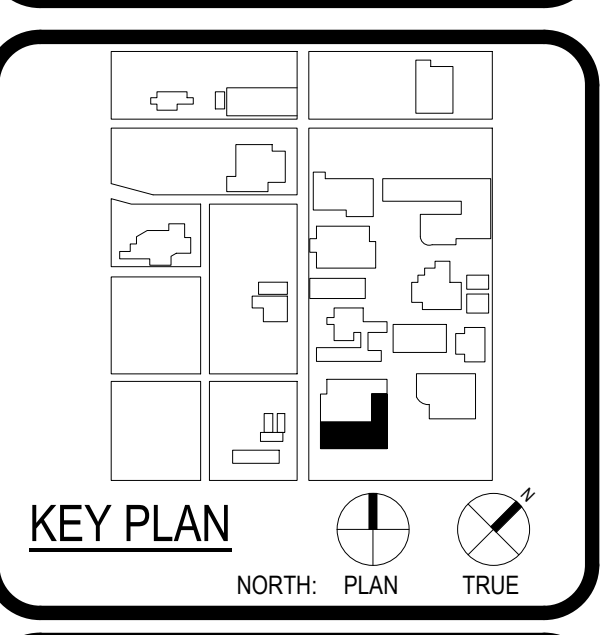
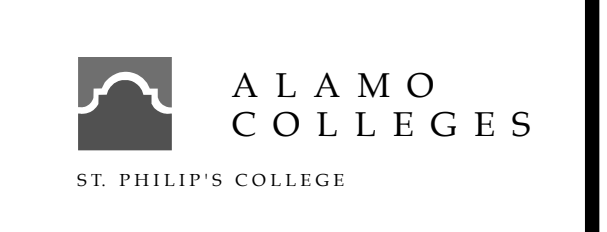


ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
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San Antonio, TX 78216  
210-820-0123 P  
210-823-5578 F  
TX Firm BR 1608



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

WFAAC 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

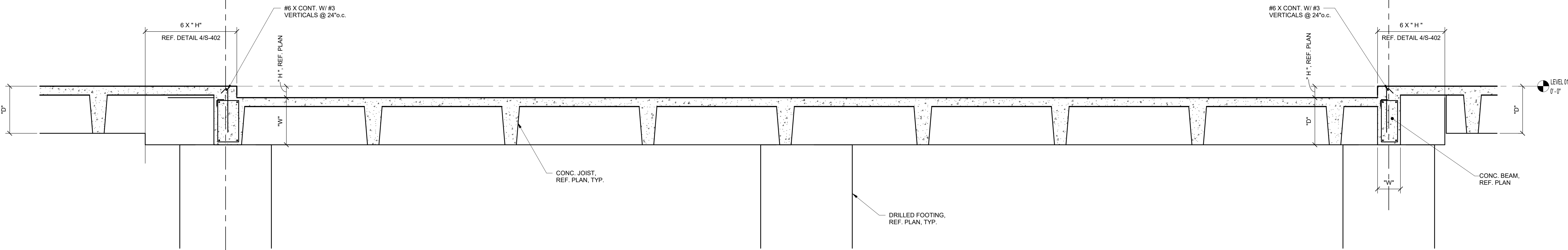
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BUILDING NUMBER AB

**SECTIONS, DETAILS & MECH. YARD FOUNDATION**

**S-301**

# ISSUE FOR CONSTRUCTION

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



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

EE

W

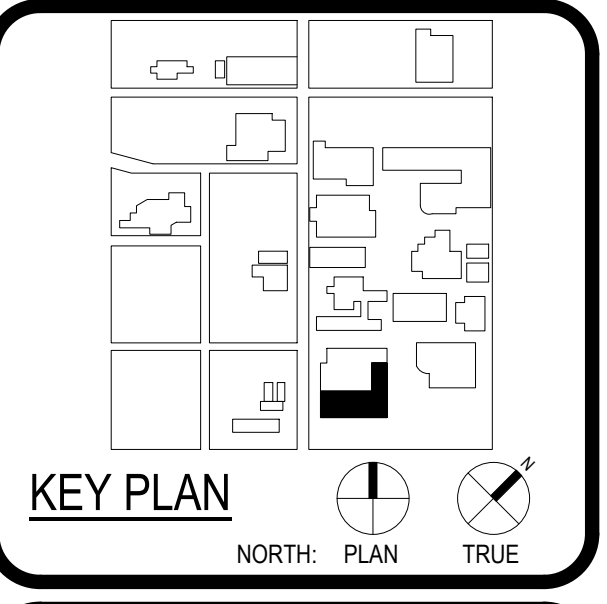


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606
ASSOCIATE ARCHITECT	BA ARCHITECTS 1111 N. Loop West San Antonio, TX 78205
CONSULTANT	LANDSCAPE ROSE AND DESIGN 1111 N. Loop West San Antonio, TX 78205
STRUCTURAL	LUNDY & FRANKE ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 PH 210-979-7800 FX 210-979-7800 TX FIRM REG. #3388
MECHANICAL	
ELECTRICAL	
PLUMBING	
BEAM PROFESSIONALS	
MEASUREMENT	
CONSTRUCTION	

**LUNDY & FRANKE ENGINEERING**  
 548 HEIMER ROAD PH 210-979-7800  
 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  
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DATE: 06/12/2024

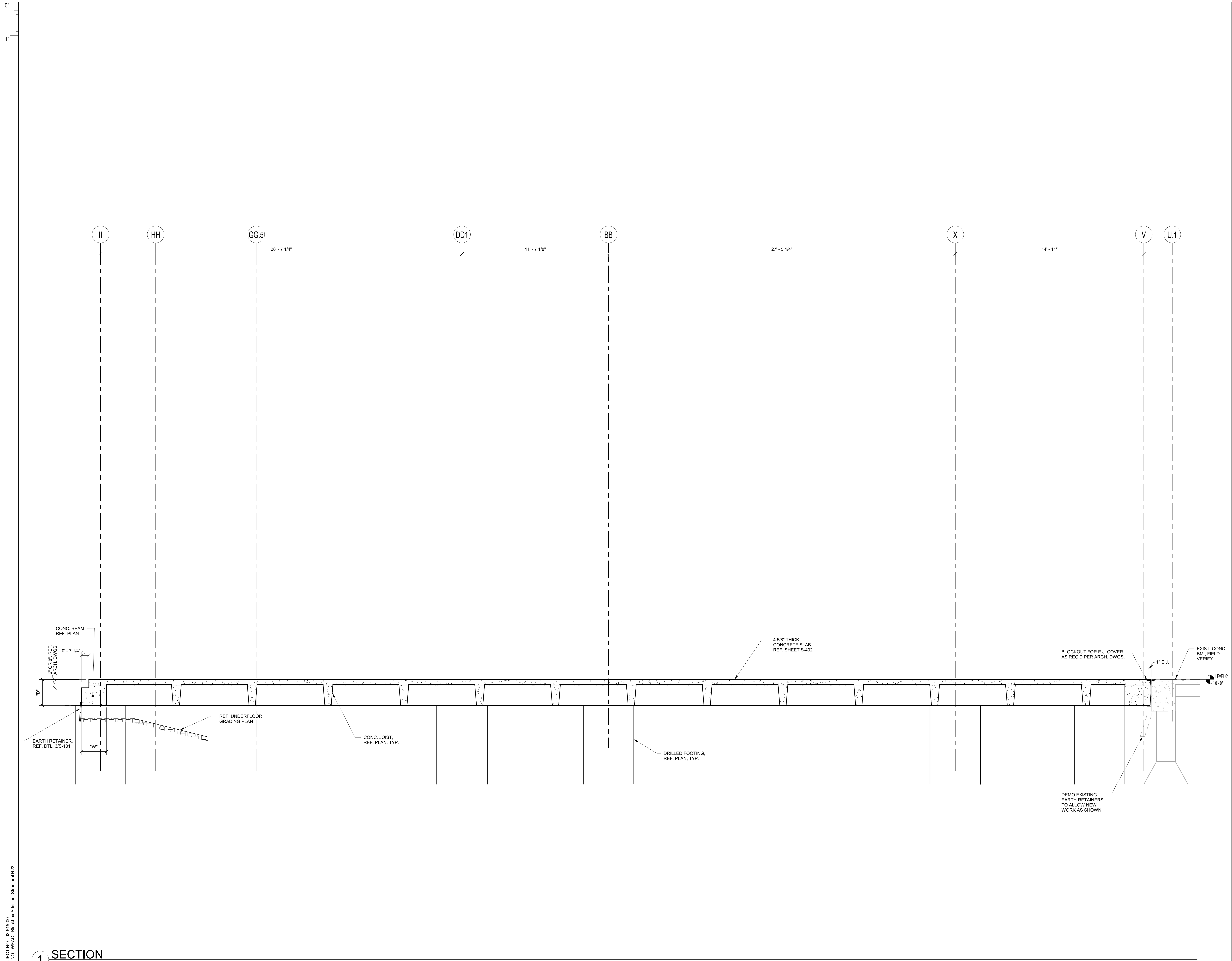
SHAWN J. FRANKE  
 82639  
 LICENSED PROFESSIONAL ENGINEER  
 State of Texas

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-38blackbox Addition, Structural R23

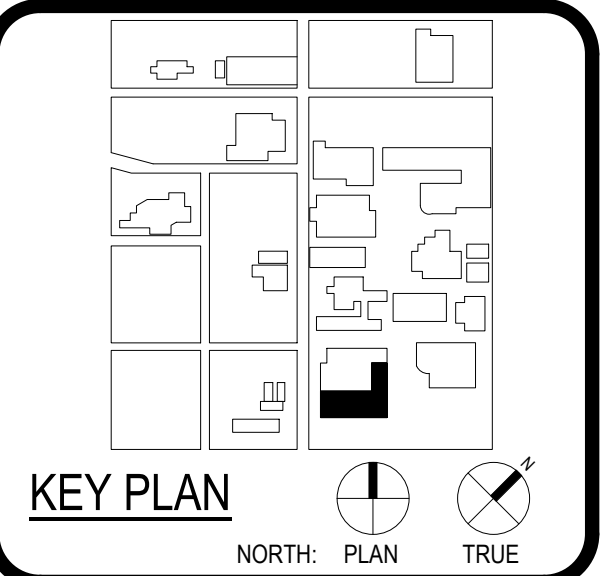


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
DATE	05/23/24
DESIGNER	T.J. BOGUE
LANDSCAPE	
ROOF AND CEILING	
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	
PROVISIONS	
BEAM PROFESSIONALS	
MEASUREMENT	
DATE	12/01/2024

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

WFAC Black Box Addition PKG 1

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



DATE: 05/23/2024  
SHAWN J. FRANKE  
82639  
LICENSED PROFESSIONAL ENGINEER  
*Shawn Franke*

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

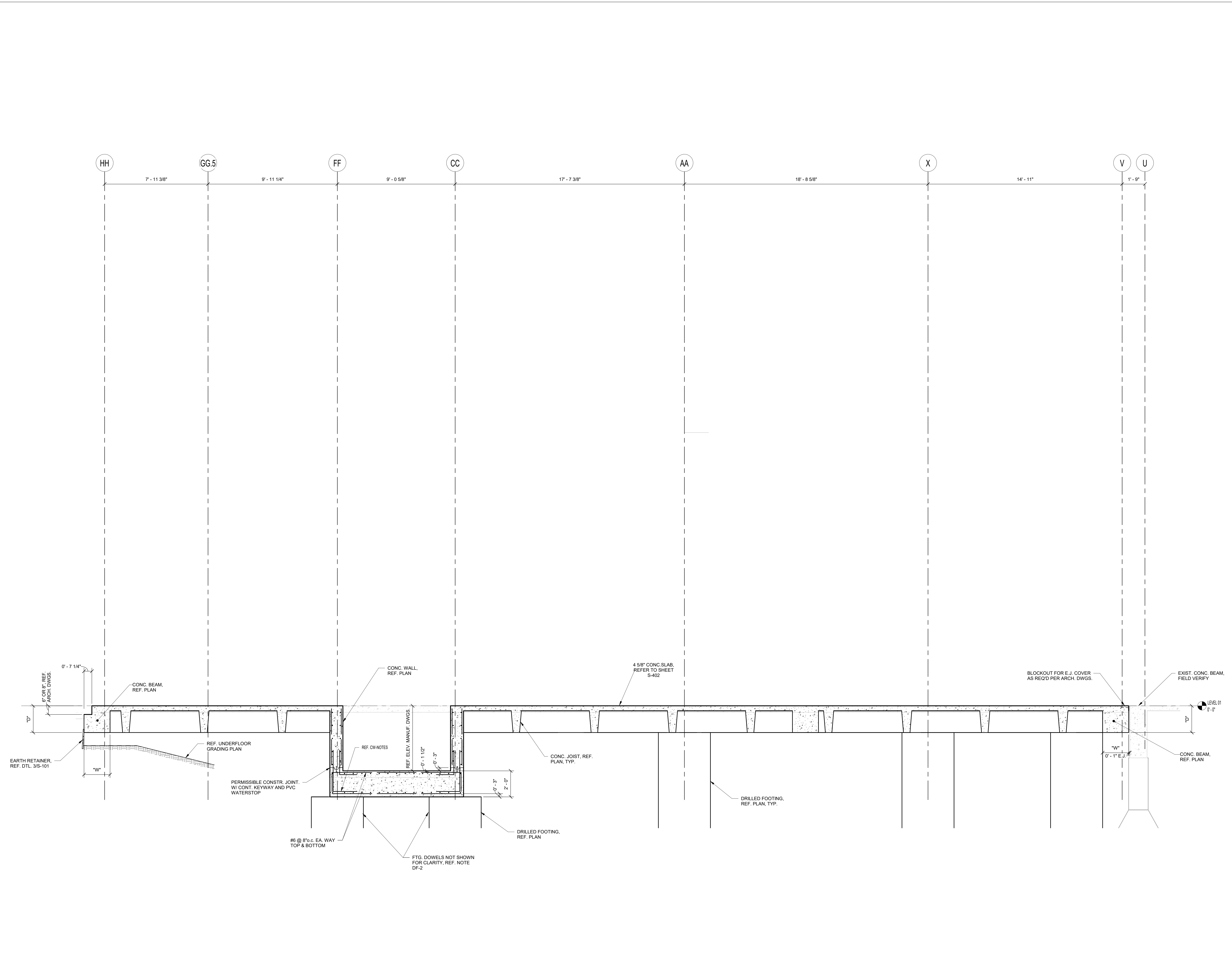
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

SECTION

**S-303**

# ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 03/515-00  
 LA FILE NO.: WFAC-38blackbox Addition, Structural R23



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

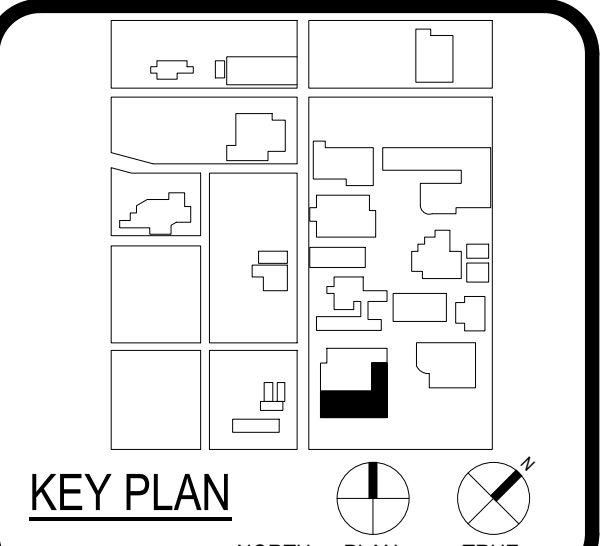


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-823-0123 P 210-823-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BLA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	LUNDY & FRANKE
LANDSCAPE	LANDSCAPE
ROOF AND DRIP	LANDSCAPE
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL
MECHANICAL	MECHANICAL



**WFAC Black Box Addition PKG 1**

1801 Marlin Luther King Dr.,  
 San Antonio, TX 78203  
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CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
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No.	Description	Date

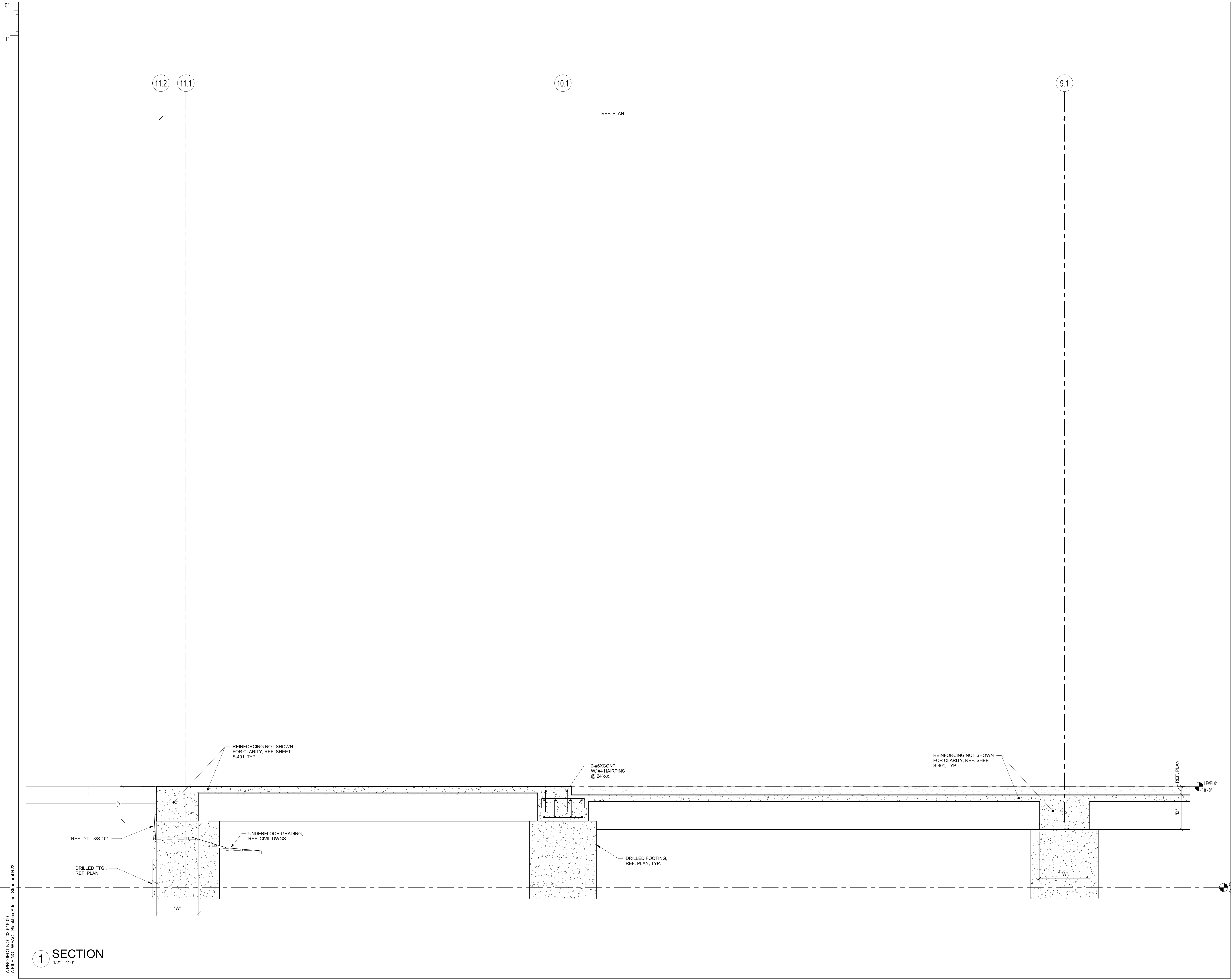
**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER **AB**

**SECTION**

**S-304**

# ISSUE FOR CONSTRUCTION



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

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

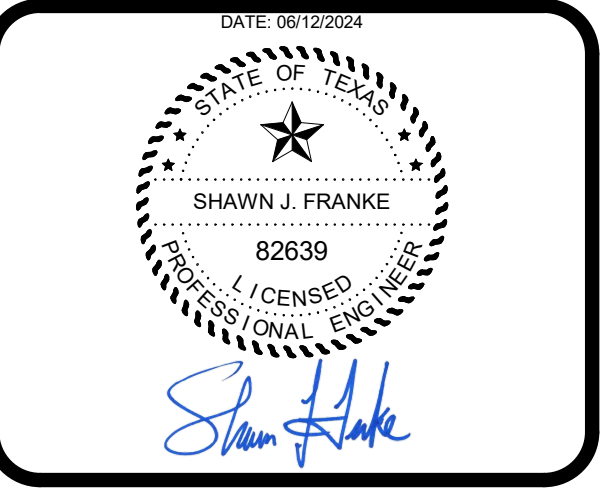
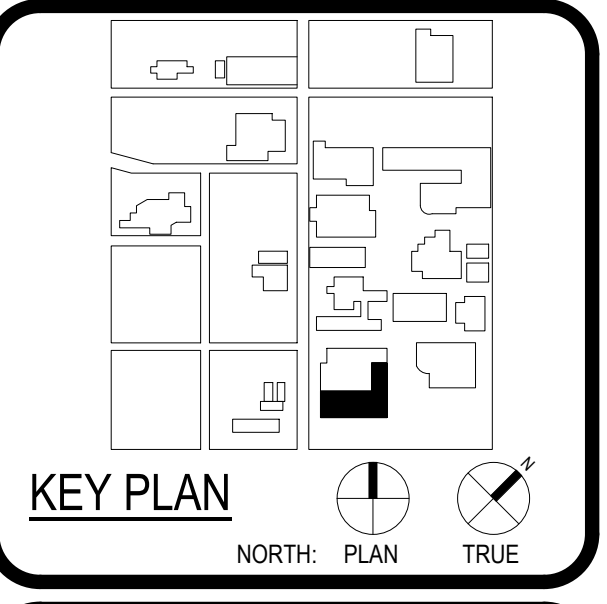


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
CONSULTANT	BA ARCHITECTS
DESIGNER	BA ARCHITECTS
LANDSCAPE	BA ARCHITECTS
ROOF AND CEILING	BA ARCHITECTS
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PROFESSIONAL SEAL	LUNDY & FRANKE ENGINEERING
REGISTERED PROFESSIONAL ENGINEER	LUNDY & FRANKE ENGINEERING
TX FIRM REG. #3388	LUNDY & FRANKE ENGINEERING



WFAC Black Box Addition PKG 1

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



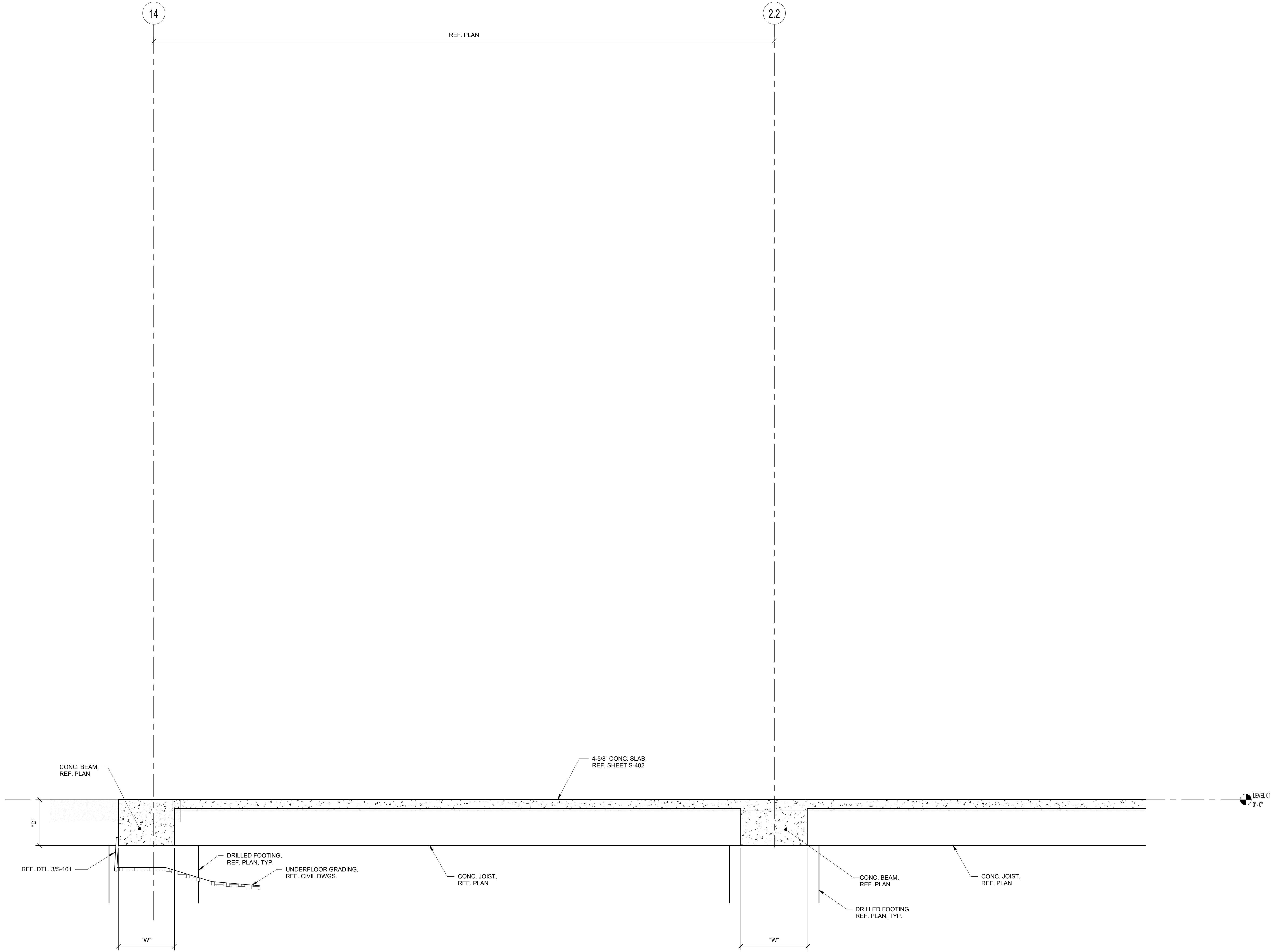
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DATE	PROJECT NUMBER	230462
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
SCALE	BUILDING NUMBER	AB

**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

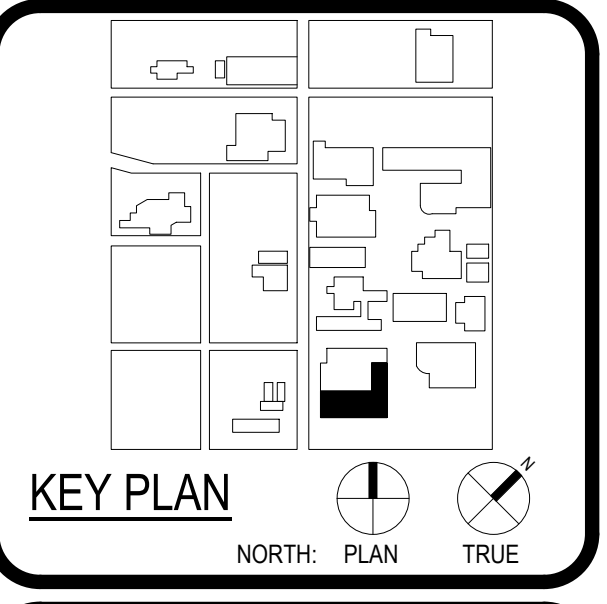


ARCHITECT PBK Architects, Inc.  
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601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1606



WFAC Black Box Addition PKG 1

1801 Mathis Luther King Dr.,  
San Antonio, TX 78203  
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CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/05/23		
DRAWING HISTORY		
No.	Description	Date

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BUILDING NUMBER AB

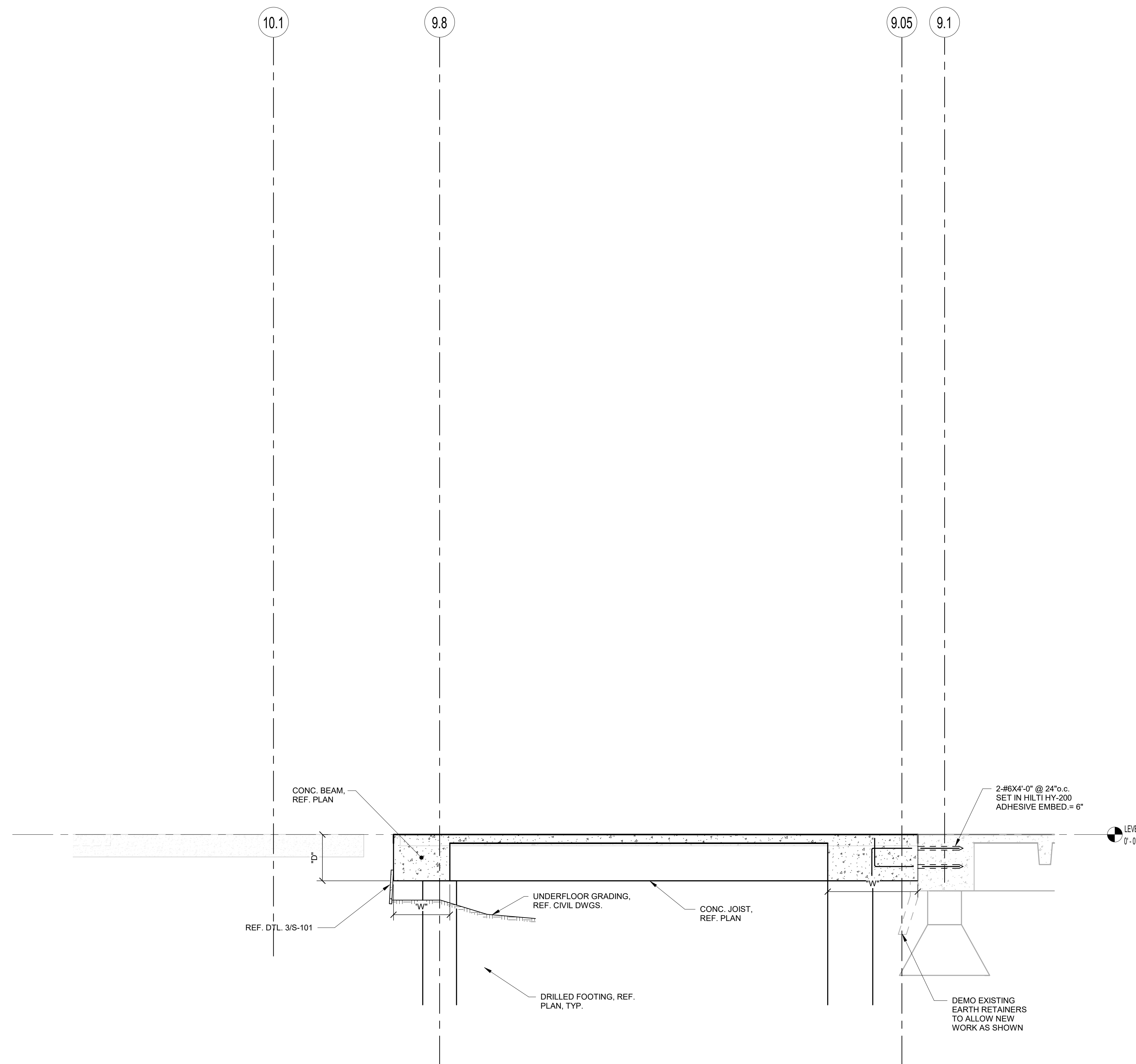
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S-306



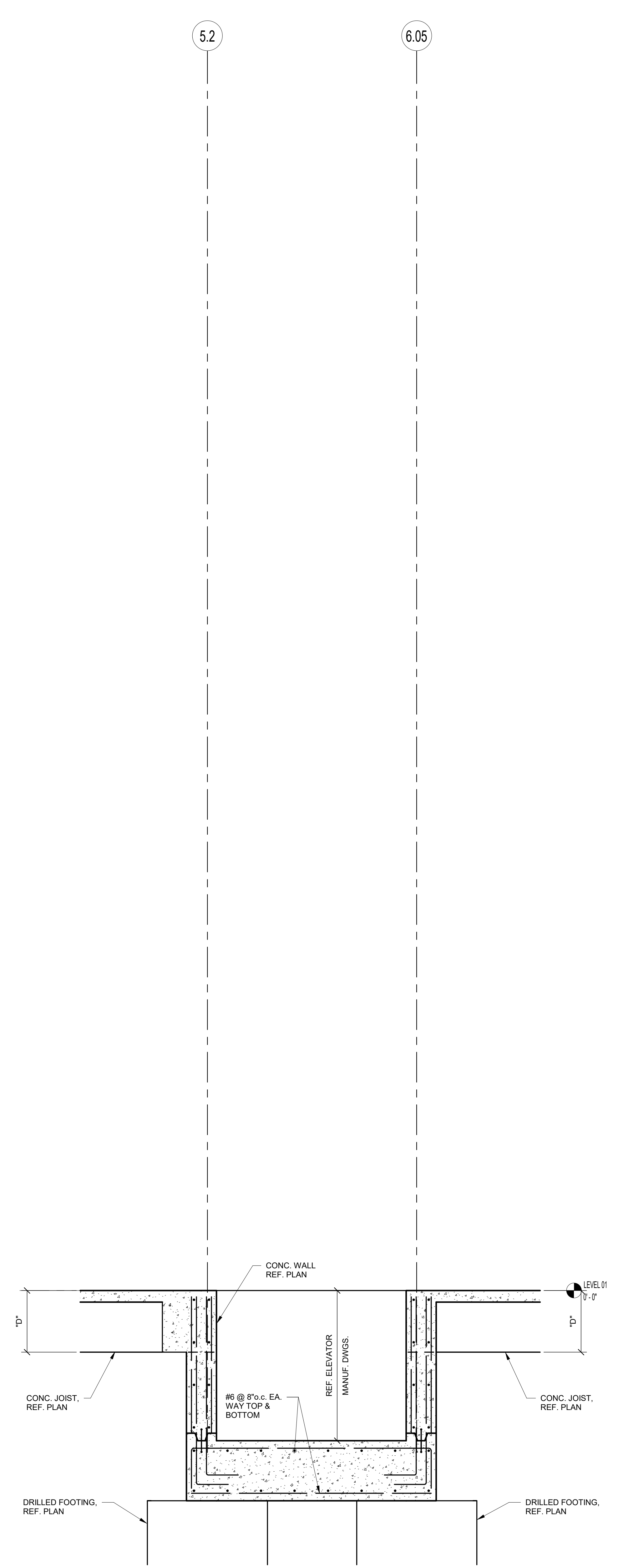
ISSUE FOR CONSTRUCTION

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



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

NOT USED



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

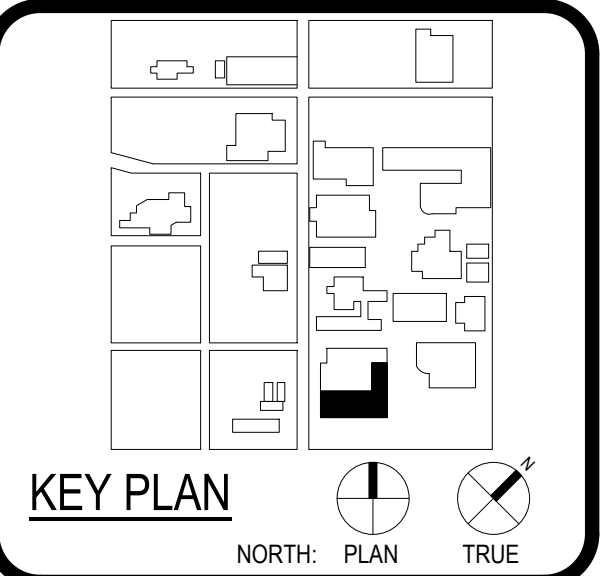


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
CONSULTANT	CEC
DESIGNER	T.J. BOGUE
LANDSCAPE	LANDSCAPE
ROSE AND GOSUP	T.J. BOGUE
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	MECH
ELECTRICAL	ELECTRICAL
PROVIDOR	BEAM PROFESSIONALS
MEASURER	MEASURE
DATE	12.20.2024

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

WFAC Black Box Addition PKG 1

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



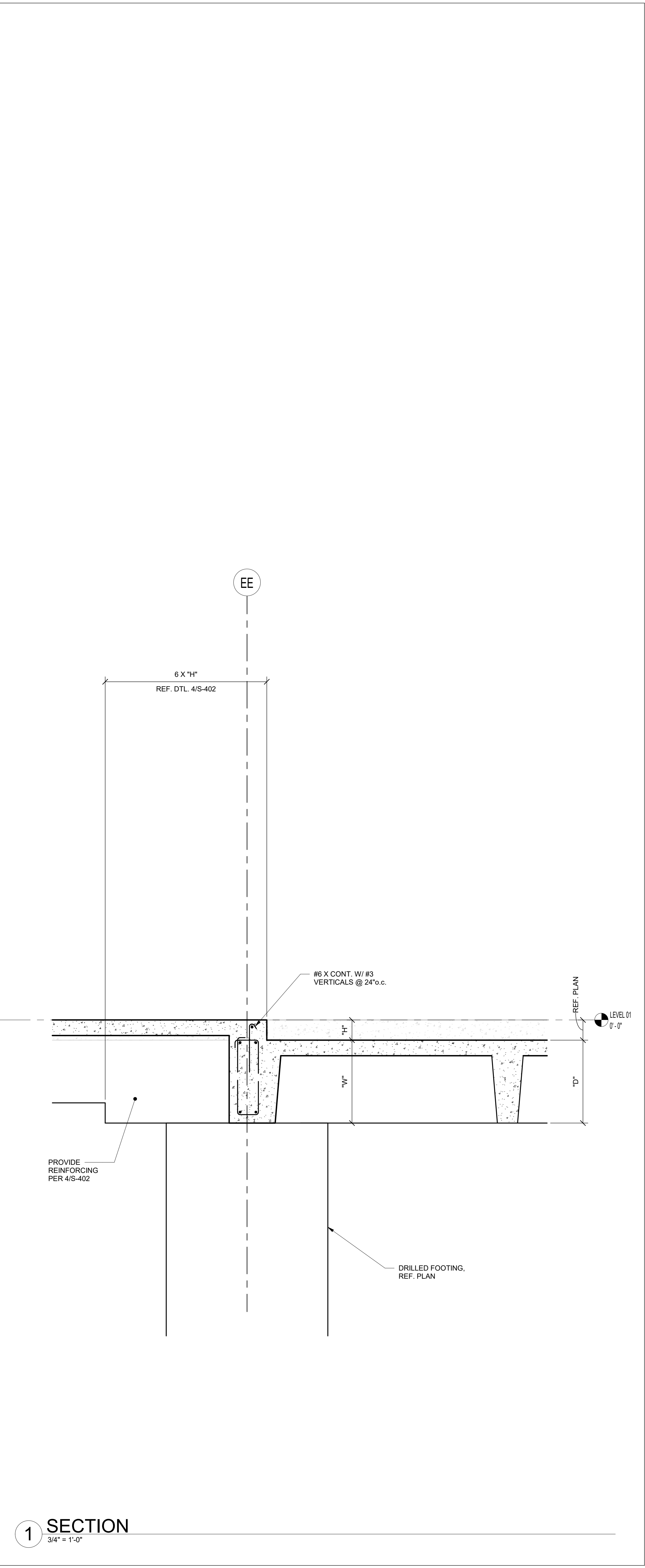
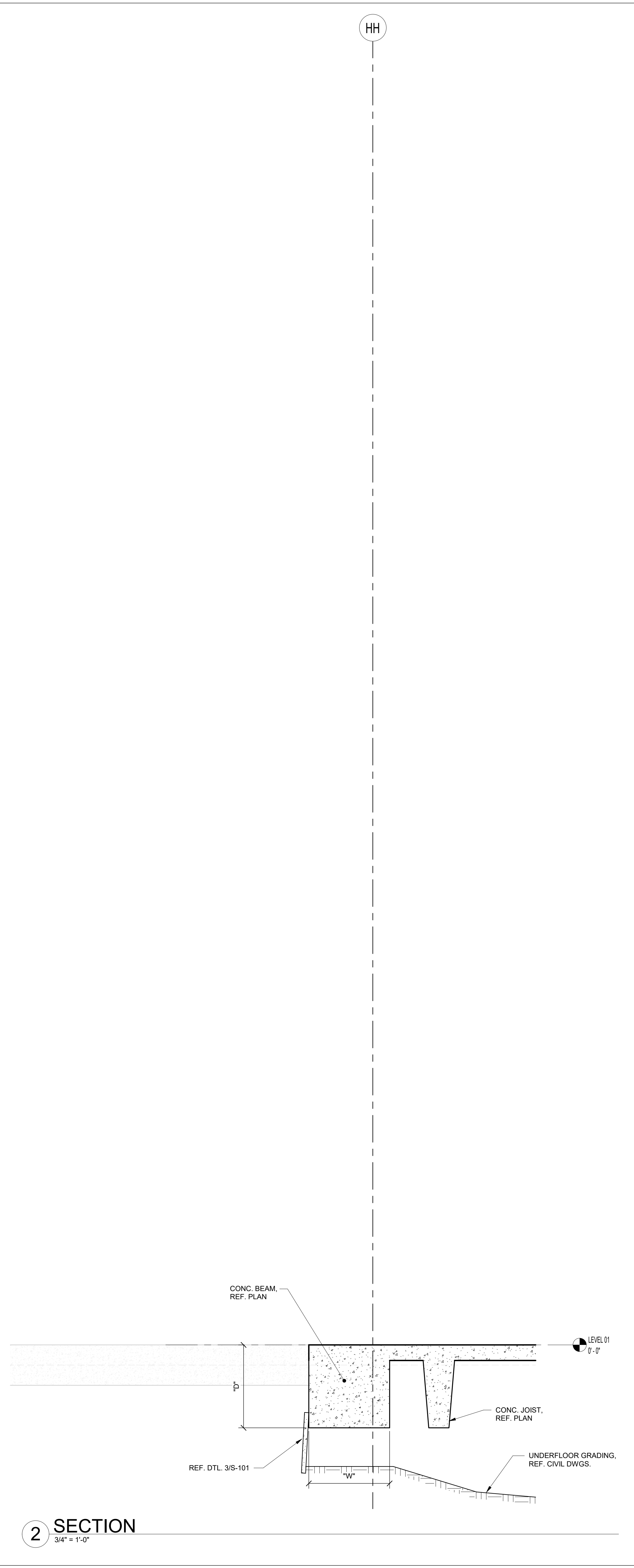
CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER	AB
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SECTIONS  
S-307

# ISSUE FOR CONSTRUCTION



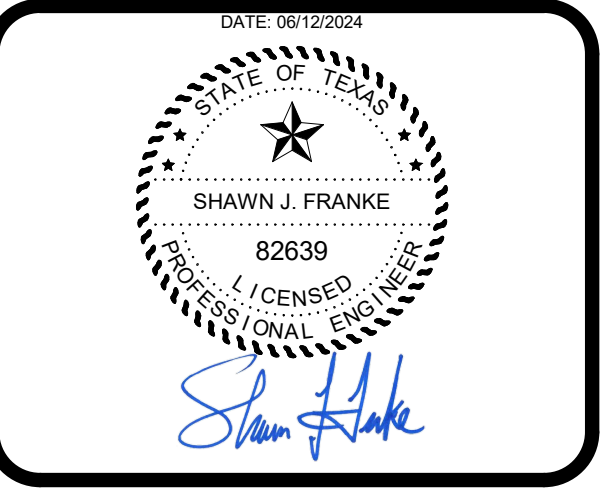
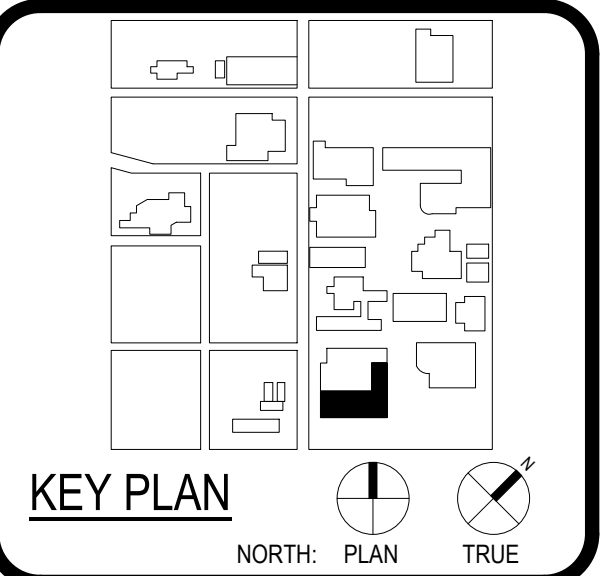
LA PROJECT NO.: 09316-00  
LA FILE NO.: WFAC-Blackbox Addition - Structural R23



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
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	LANDSCAPE
ROOF AND DRIP	ROOF AND DRIP
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	M.E.P.
PROVIDOR	PROVIDOR
MECHANICAL	MECHANICAL
ELECTRICAL	ELECTRICAL
PLUMBING	PLUMBING
HAZARDOUS	HAZARDOUS
TRUCKING	TRUCKING



WFAC Black Box Addition PKG 1

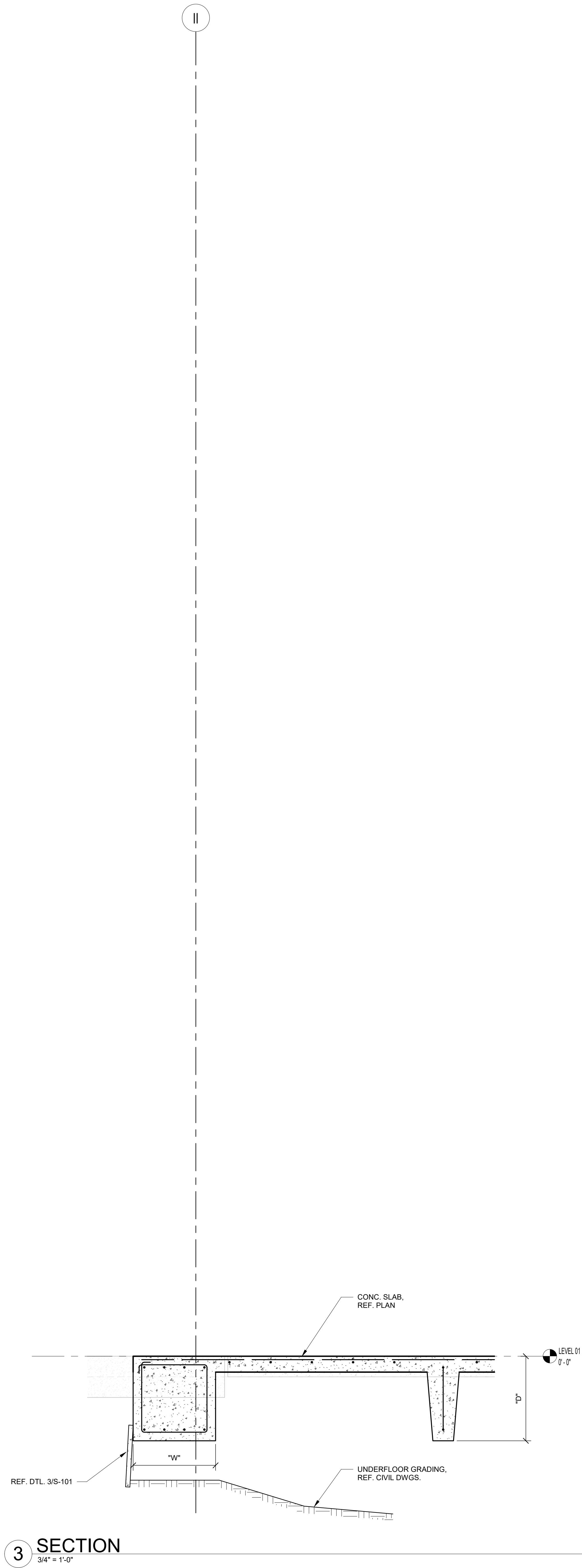


CLIENT	Alamo Colleges	
DATE	2024/05/23	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

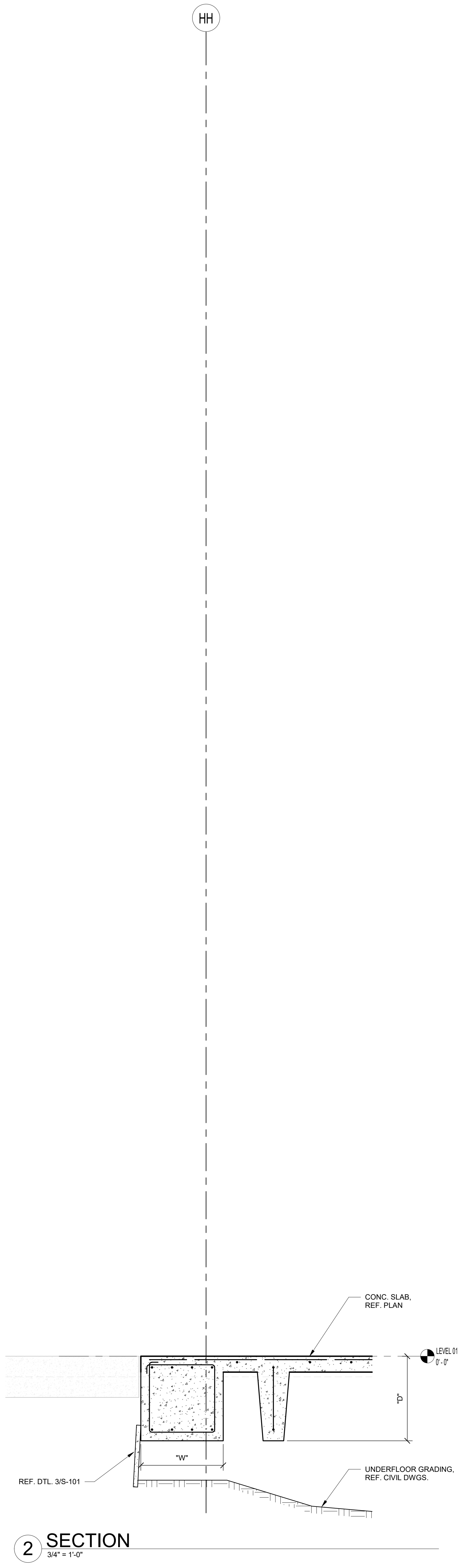
SECTIONS  
S-308

# ISSUE FOR CONSTRUCTION

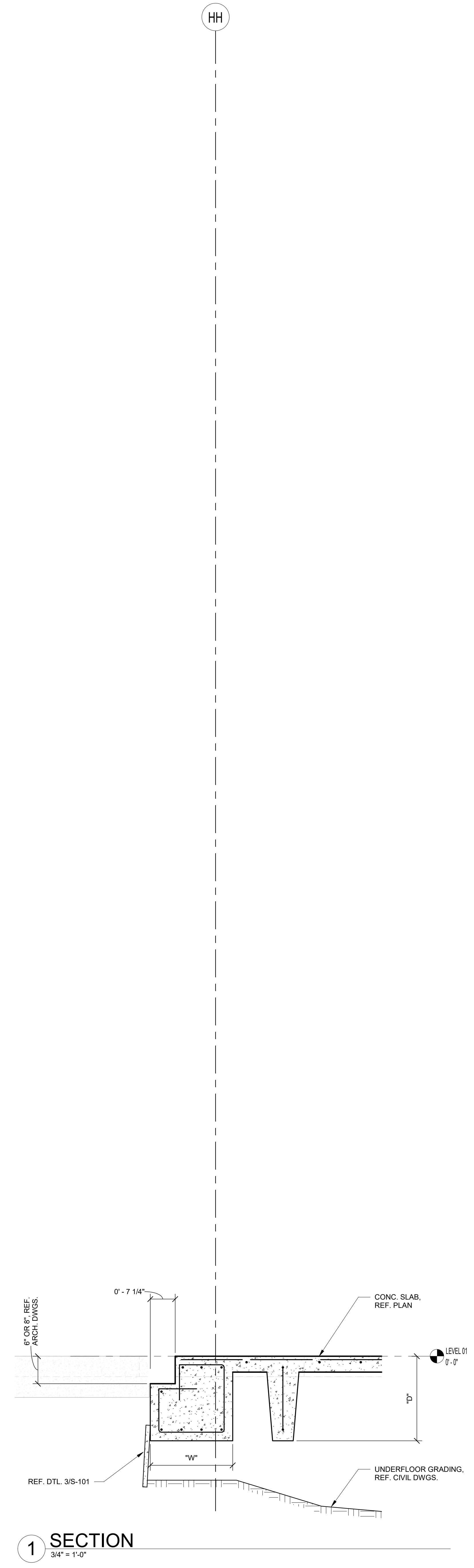
LA PROJECT NO.: 09316-00  
LA FILE NO.: WFAC-Blackbox Addition Structural R23



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



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



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

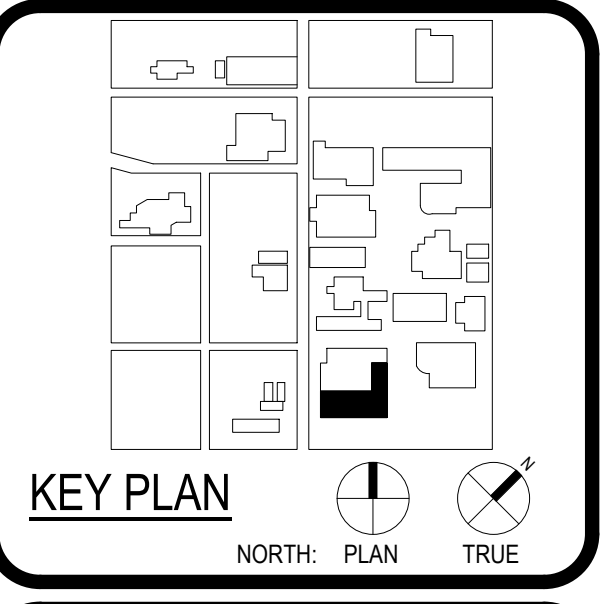


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
DESIGNER	TRAVIS BAKER
LANDSCAPE	TRAVIS BAKER
ROOF AND DRIP	TRAVIS BAKER
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	TRAVIS BAKER
PROVISIONS	TRAVIS BAKER
MECHANICAL	TRAVIS BAKER
ELECTRICAL	TRAVIS BAKER



**WFAC Black Box Addition PKG 1**

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



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

**SECTIONS & DETAILS**

**S-309**

CONCRETE WALL NOTES:

CW-1 UNLESS SHOWN OTHERWISE, AT CORNERS, ANGLE BENDS, AND AT JUNCTION WITH OTHER WALLS, LAP ALL HORIZONTAL BARS PER REINFORCING BAR LAP SCHEDULE.

CW-2 UNLESS SHOWN OTHERWISE, WHERE WALLS STOP, POSITION TWO (2) OF THE WALL VERTICAL BARS AT THE END OF THE WALL. PROVIDED THAT VERTICAL BARS ARE #6 OR LARGER. IF WALL VERTICAL BARS ARE SMALLER THAN #6, USE #3/8" AT WALL VERTICAL BARS. PROVIDE #4 U-BARS (60 DIAMETER LAPS) ENCLOSING VERTICAL BARS AT END FACES, SAME SPACING AS HORIZONTAL BARS.

CW-3 UNLESS SHOWN OTHERWISE, ADD 2-#6 BARS IN EACH FACE OVER OPENING. EXTENDING 60 DIAMETERS BEYOND LIMITS OF OPENING. AND ADD 2-#5X5/8" PLACED DIAGONALLY AT EACH CORNER OF OPENING. PROVIDE #4 U-BARS (60 DIAMETER LAPS) AT END FACES FOR EACH BAR (HORIZONTAL OR VERTICAL) INTERRUPTED BY OPENING. U-BARS SHALL ENCLOSE HORIZONTAL OR VERTICAL BARS AT OPENING. NOTIFY A/E PRIOR TO FABRICATION AND CONSTRUCTION FOR OPENINGS LARGER THAN 2'-0"X2'-0".

CW-4 UNLESS SHOWN OTHERWISE, USING REINFORCING BAR LAP SCHEDULE LAP WALL DOWELS FROM BEAM OR FOOTING TO MATCH THE SIZE AND SPACING OF ALL VERTICAL BARS IN WALL ABOVE. EXTEND INTO WALL USING REINFORCING BAR LAP SCHEDULE. AT CONSTRUCTION JOINTS, EITHER CONTINUE ALL VERTICAL BARS PROVIDE LAPS OF ALL VERTICAL BARS INTO WALL ABOVE USING REINFORCING BAR LAP SCHEDULE.

Table with 7 columns: MK, THICKNESS, VERTICAL BARS (I.S. FACE, O.S. FACE), HORIZONTAL BARS (I.S. FACE, O.S. FACE), CONCRETE STRENGTH, REMARKS. Includes CW-1 with 12" thickness and 4000PSI strength.

1st FLOOR CONCRETE BEAM SCHEDULE

Main beam schedule table with columns: MARK, SIZE (W, D, SECT), MAIN REINFORCING (TOP BARS, BOTTOM BARS, TOP BARS AT SUPPORT), STIRRUPS (SIZE, TYPE, SPACING AT EACH END OF BEAM), and REMARKS. Lists beams B1 through B39.

REINFORCING PLACEMENT NOTES:

RP-1 WHERE BAR TYPES T2 AND T3 LAP OVER SUPPORTS, BUNDLE VERTICALLY TO PREVENT CONGESTION. IF BAR TYPE T4 ARE ALSO SCHEDULED, USE #5 SUPPORT BARS TO HOLD THEM NEAR MIDDLE OF STIRRUP WIDTH AS SHOWN IN DIAGRAM RP-1.

RP-2 FABRICATE OFFSET BENDS IN MAIN REINFORCING BARS FOR FLOOR DROPS, OFFSET BEAM FACES, BRICK LUG VARIATIONS, ETC. SHOP BEND BARS ON A 1:6 SLOPE AND MODIFY STIRRUP SHAPE ACCORDINGLY.

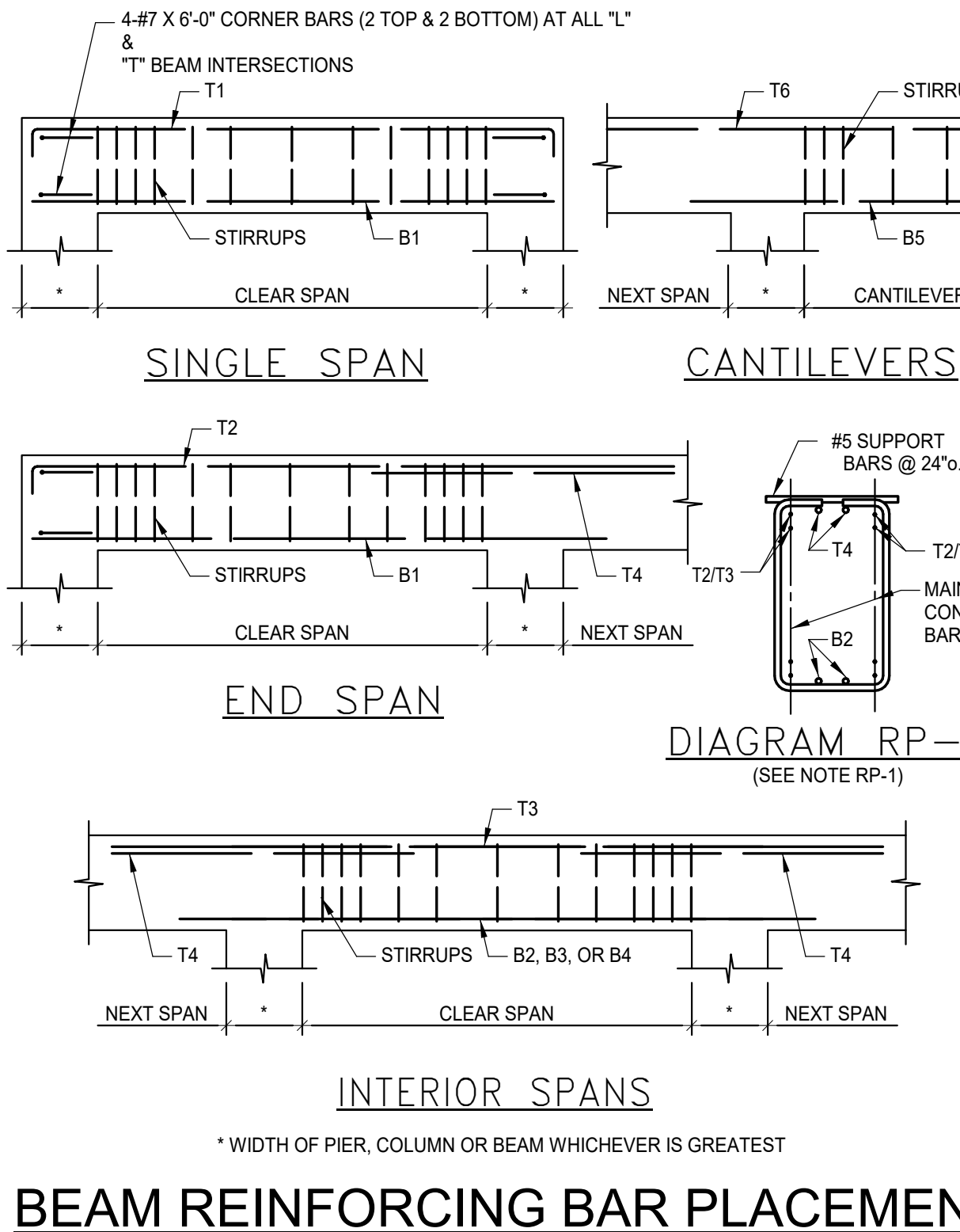
RP-3 UNLESS NOTED OTHERWISE, REBARS SHALL HAVE CONCRETE COVER AS FOLLOWS: STIRRUPS AND TIES = 1-1/2" AND SLABS = 3/4".

RP-4 WHERE BEAM DEPTHS EXCEED 36", PROVIDE ADDITIONAL CONTINUOUS #4 HORIZONTAL BARS IN EACH FACE SPACED NOT MORE THAN 16" o.c.

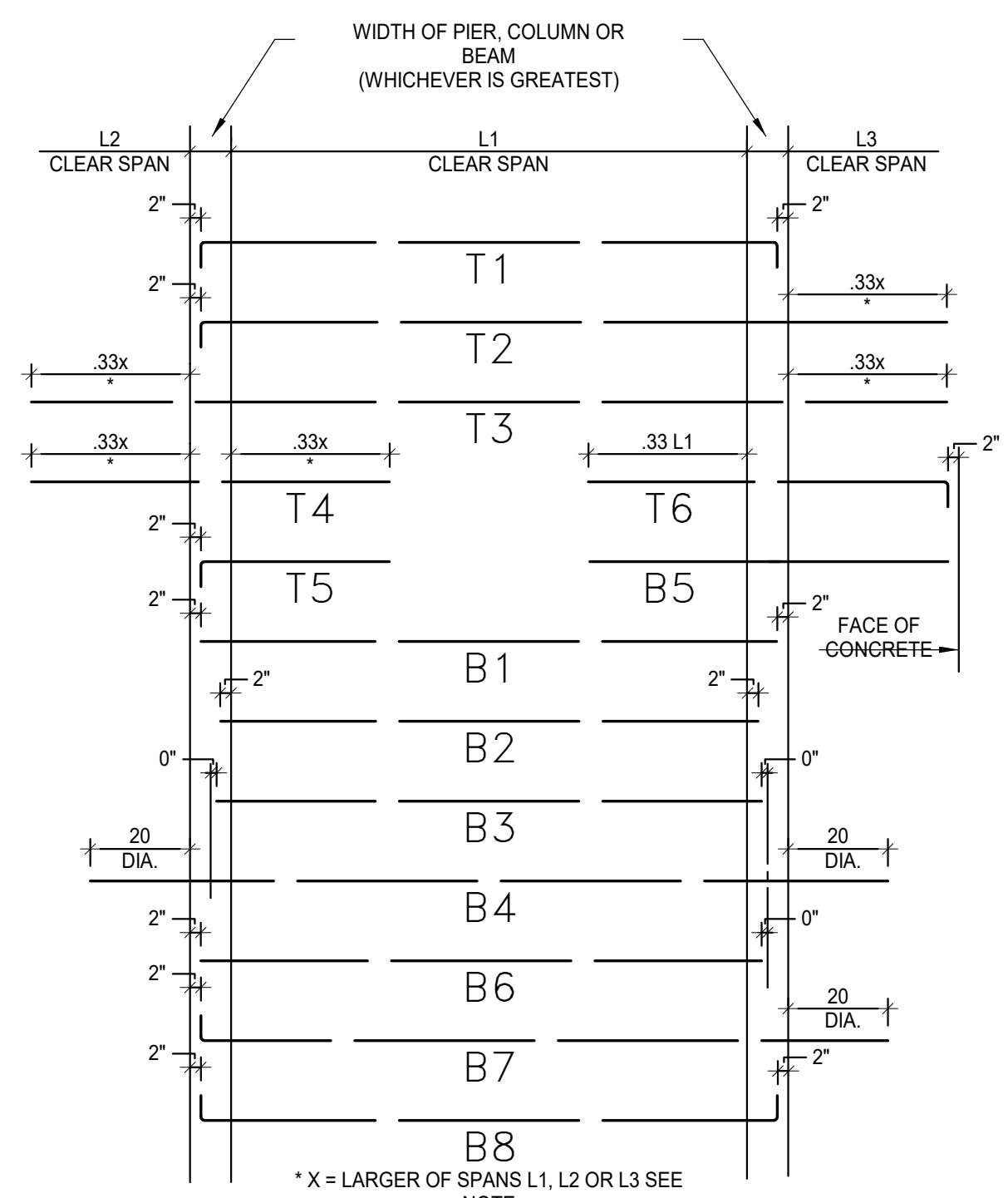
RP-5 BARS NOTED IN SCHEDULE AS "CONT." SHALL BE FULLY CONTINUOUS USING STOCK LENGTH STEEL AND RANDOM SPLICES OF 40 BAR DIAMETERS.

RP-6 DISTANCE "X" SHALL BE THE LARGEST DISTANCE BETWEEN SUPPORTS OF THE SPANS L1, L2 OR L3 AND SHALL BE MADE THE SAME AMOUNT AT THE LEFT AND RIGHT ENDS SO THAT BARS ARE PLACED SYMMETRICALLY IN THE SPAN.

RP-7 SLEEVES THROUGH BEAMS SHALL HAVE INDIVIDUAL APPROVAL OF THE ENGINEER AND MAY REQUIRE AN INCREASE IN BEAM SIZE.



BEAM REINFORCING BAR PLACEMENT



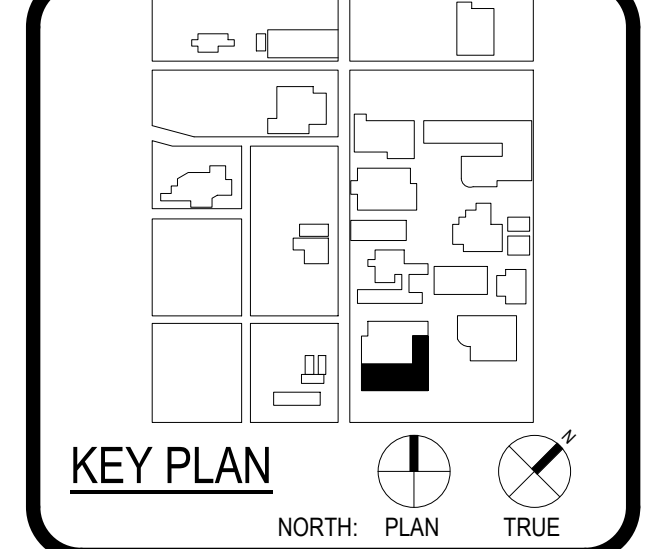
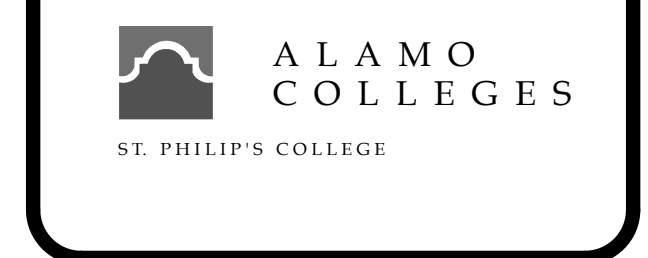
REINFORCING BAR TYPES



ARCHITECT table listing PBK Architects, Inc. with address and phone numbers in San Antonio, TX.



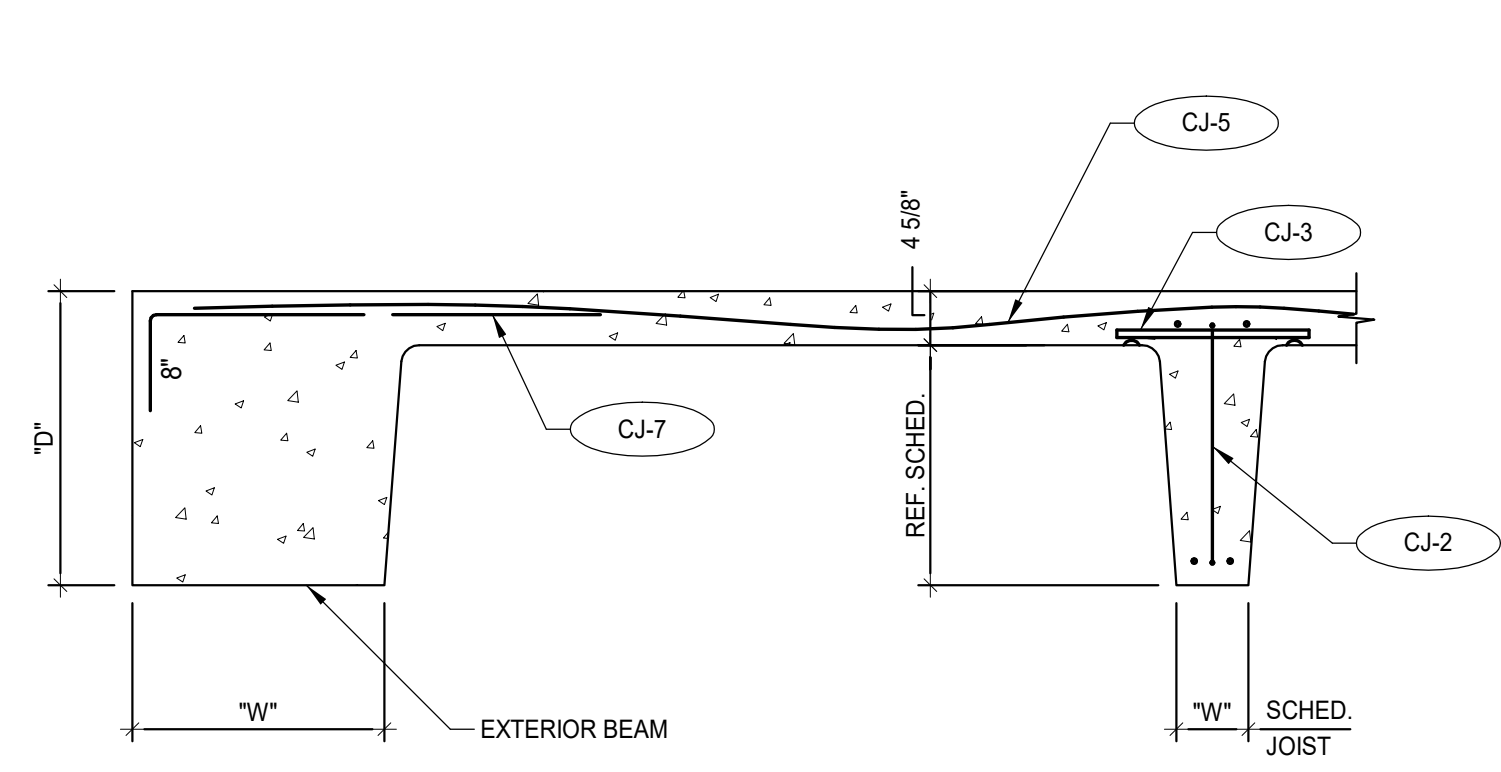
WFAC Black Box Addition PKG 1



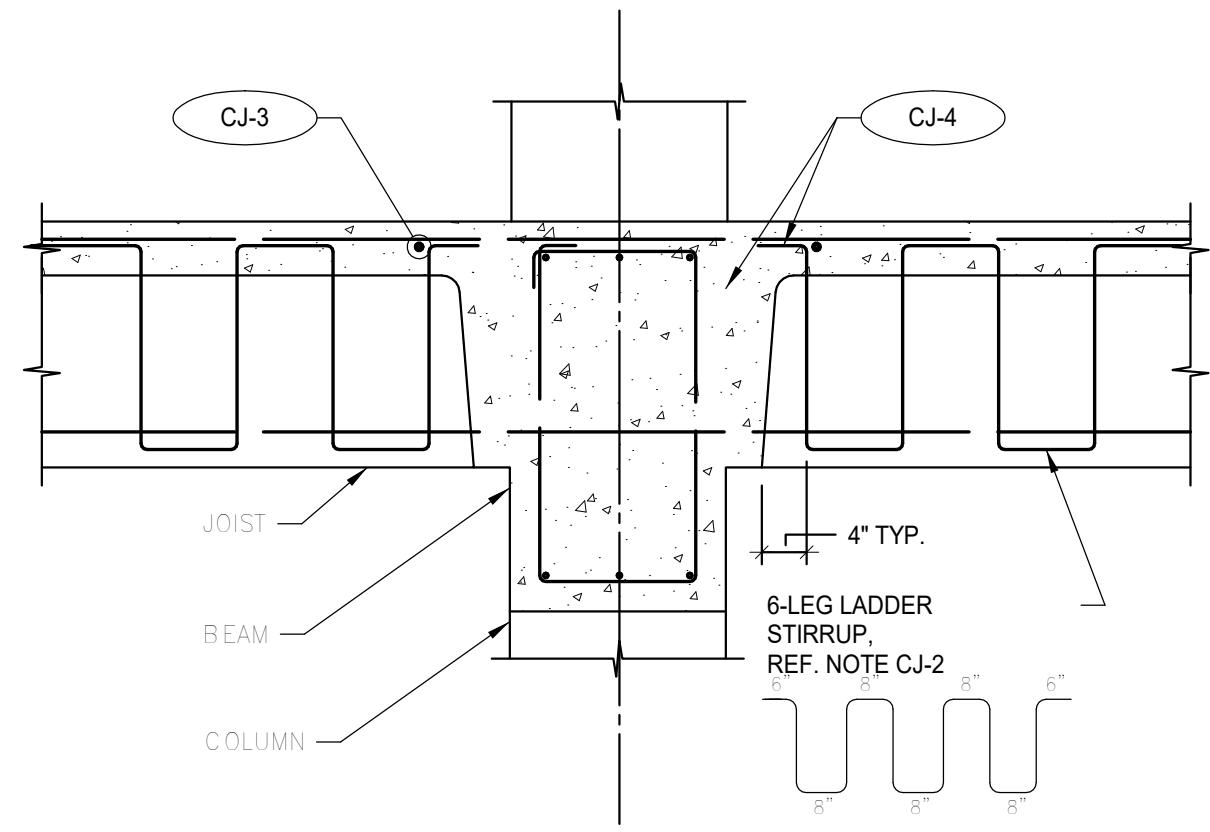
CLIENT information table for Alamo Colleges, including date 2024/05/23 and project number 230462.

ISSUE FOR CONSTRUCTION table with columns for No., Description, Date, and Building Number AB.

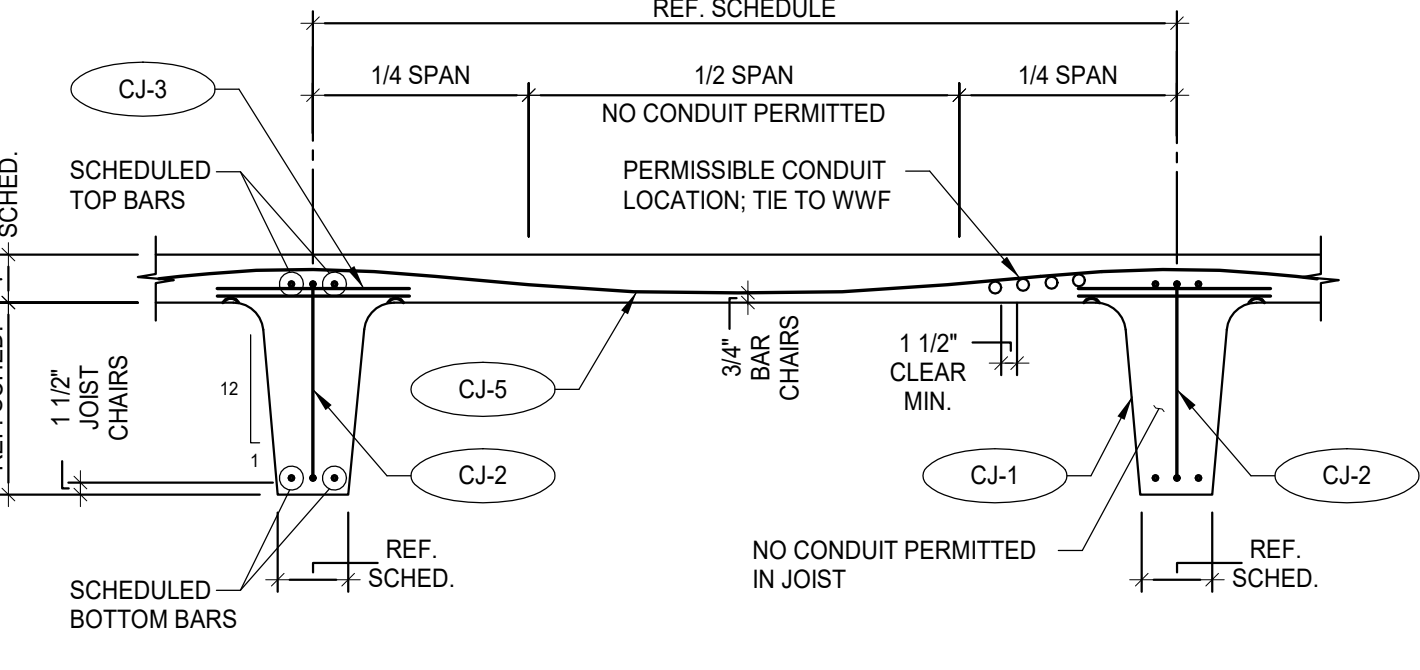
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



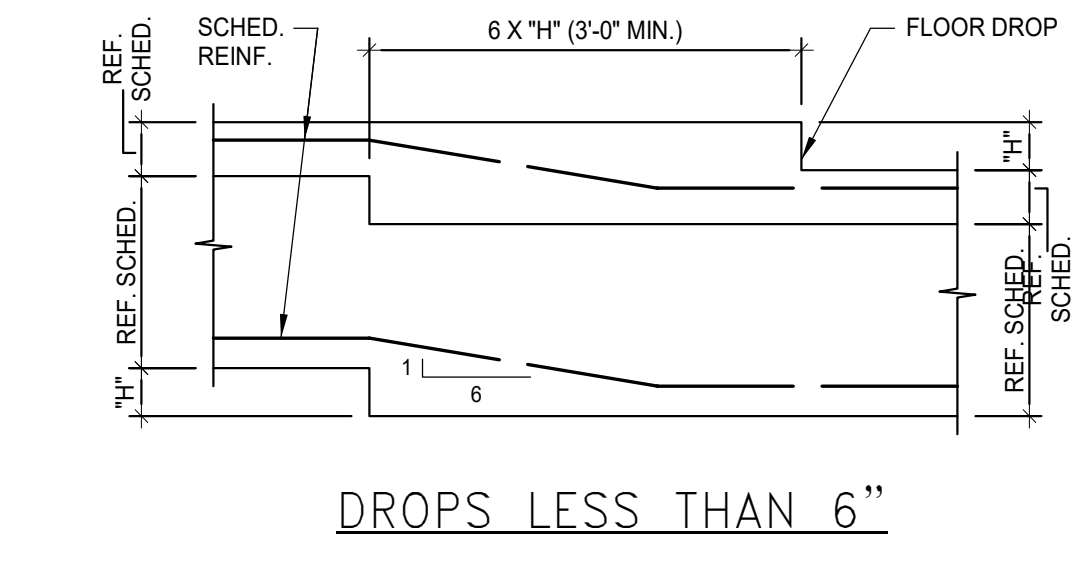
5 DETAIL TYP. SECT. @ REIN. BM. SCALE: 3/4" = 1'-0"



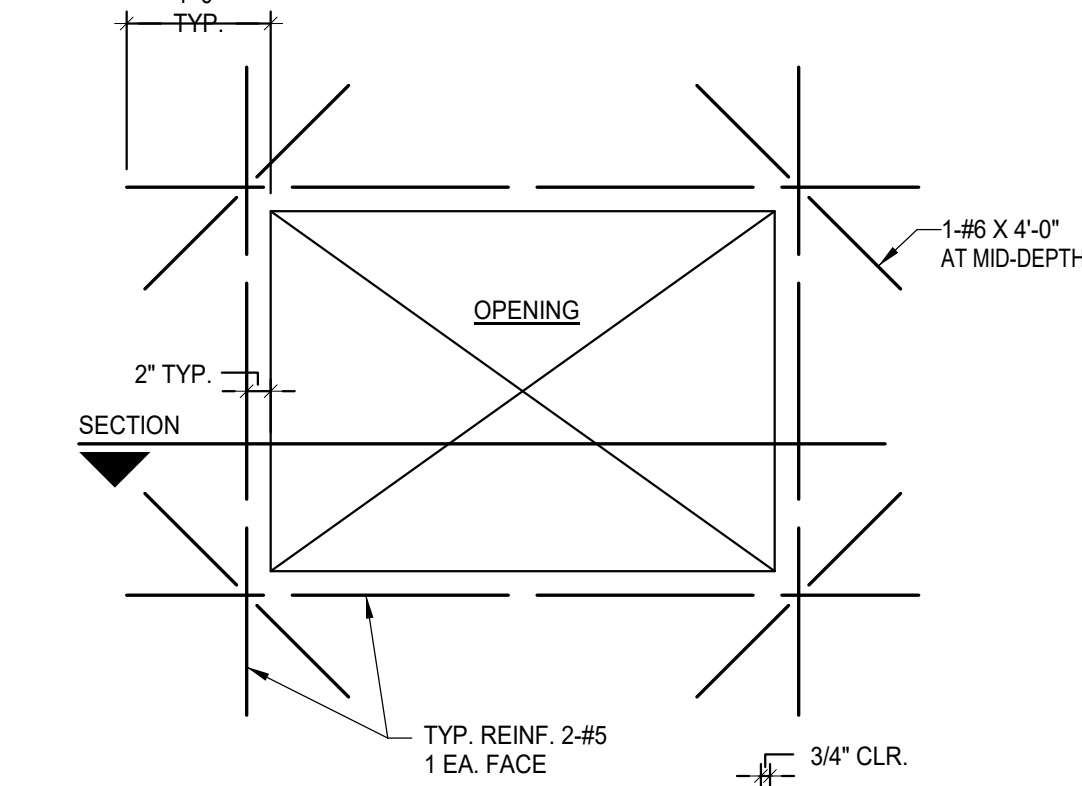
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



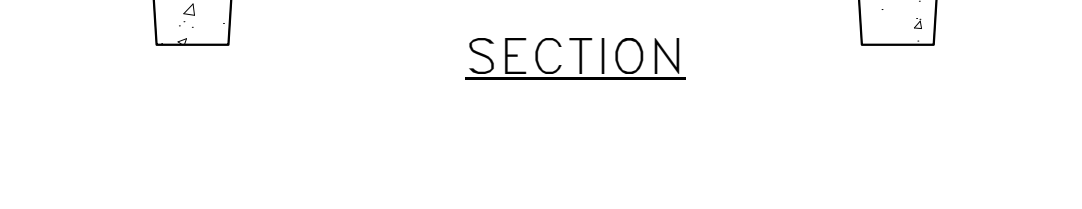
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



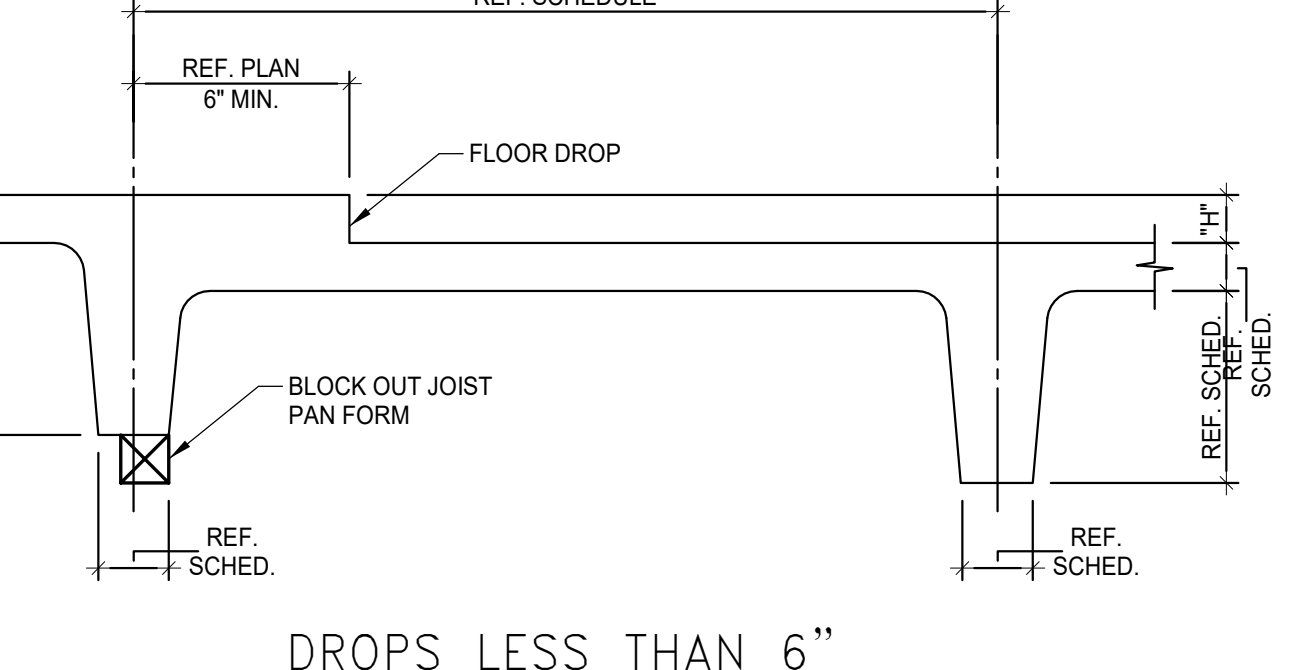
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



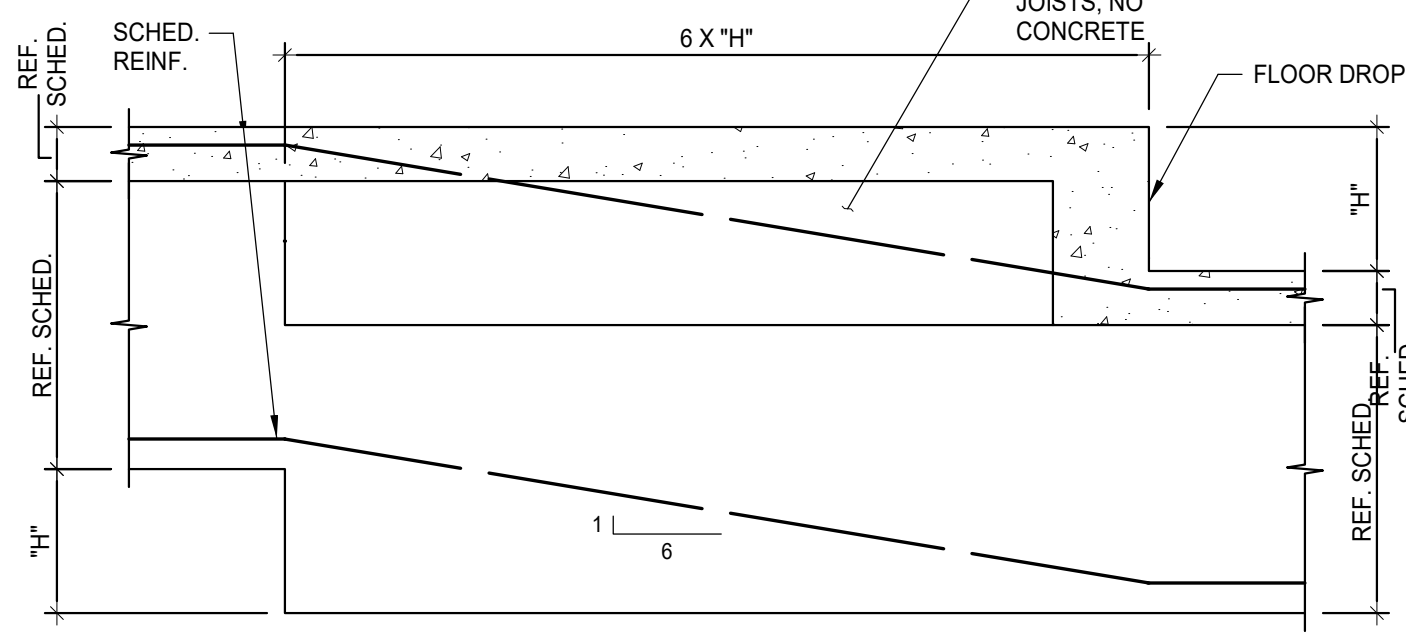
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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.

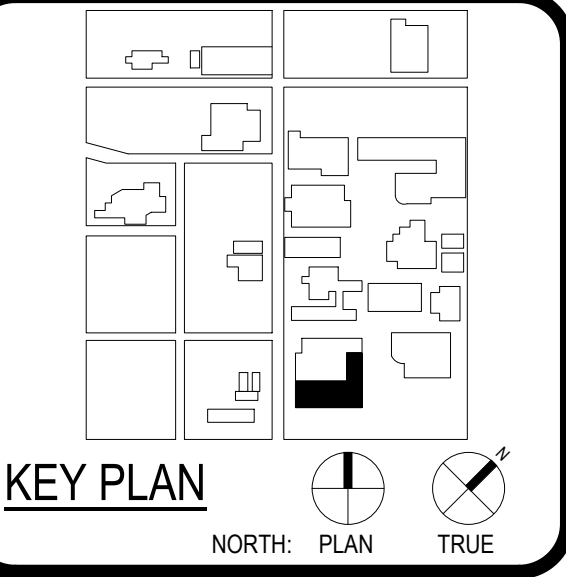


ARCHITECT SAN ANTONIO  
 PBK Architects, Inc.  
 601 N.W. Loop 410, Suite 400  
 San Antonio, TX 78216  
 210-820-0123 P.  
 210-829-5578 F.  
 TX Firm BR 1606

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

WFAC Black Box Addition PKG 1

ALAMO COLLEGES  
 ST. PHILLIP'S COLLEGE



DATE: 06/12/2024  
 SHAWN J. FRANKE  
 82639  
 LICENSED PROFESSIONAL ENGINEER

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

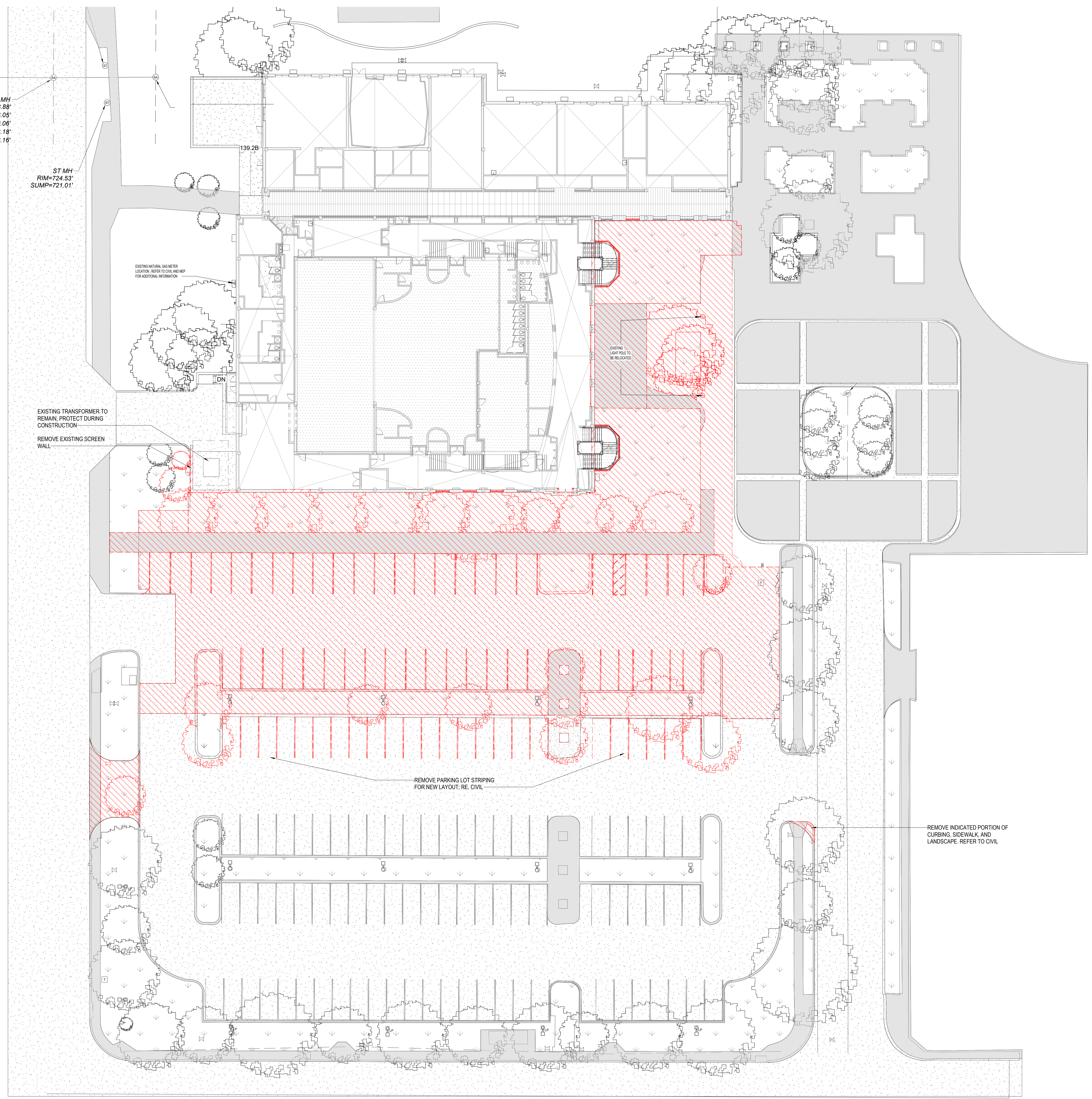
No.	Description	Date

ISSUE FOR CONSTRUCTION

BUILDING NUMBER: AB

CONC. JOIST SCHED,  
 NOTES & DETAILS

# ISSUE FOR CONSTRUCTION



## GENERAL SITE DEMOLITION NOTES

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

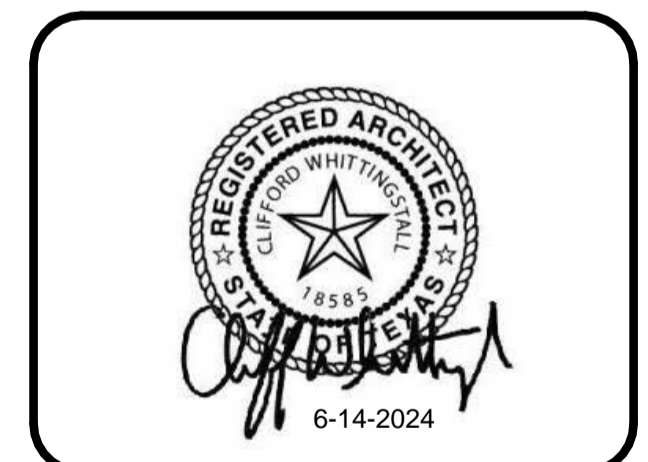
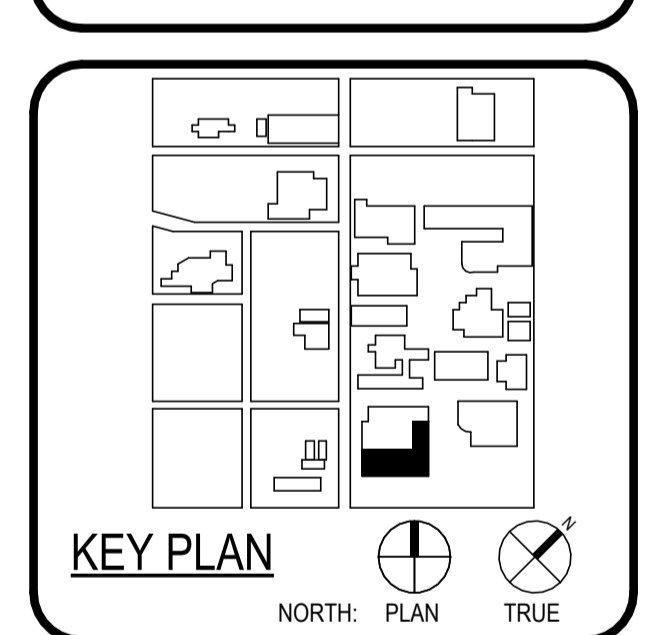


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-820-0578 F TX Firm BR 1608	
ARCHITECT	PBK Architects, Inc.
DESIGNER	PKB Architects, Inc.
LANDSCAPE	PKB Architects, Inc.
ENGINEER	PKB Architects, Inc.
MECHANICAL	PKB Architects, Inc.
ELECTRICAL	PKB Architects, Inc.
PLUMBING	PKB Architects, Inc.
CONSTRUCTION	PKB Architects, Inc.
MEASUREMENT	PKB Architects, Inc.
DATE	11/20/2023
SCALE	AS SHOWN
PROJECT	WFAC Black Box Addition
DATE	11/20/2023

**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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

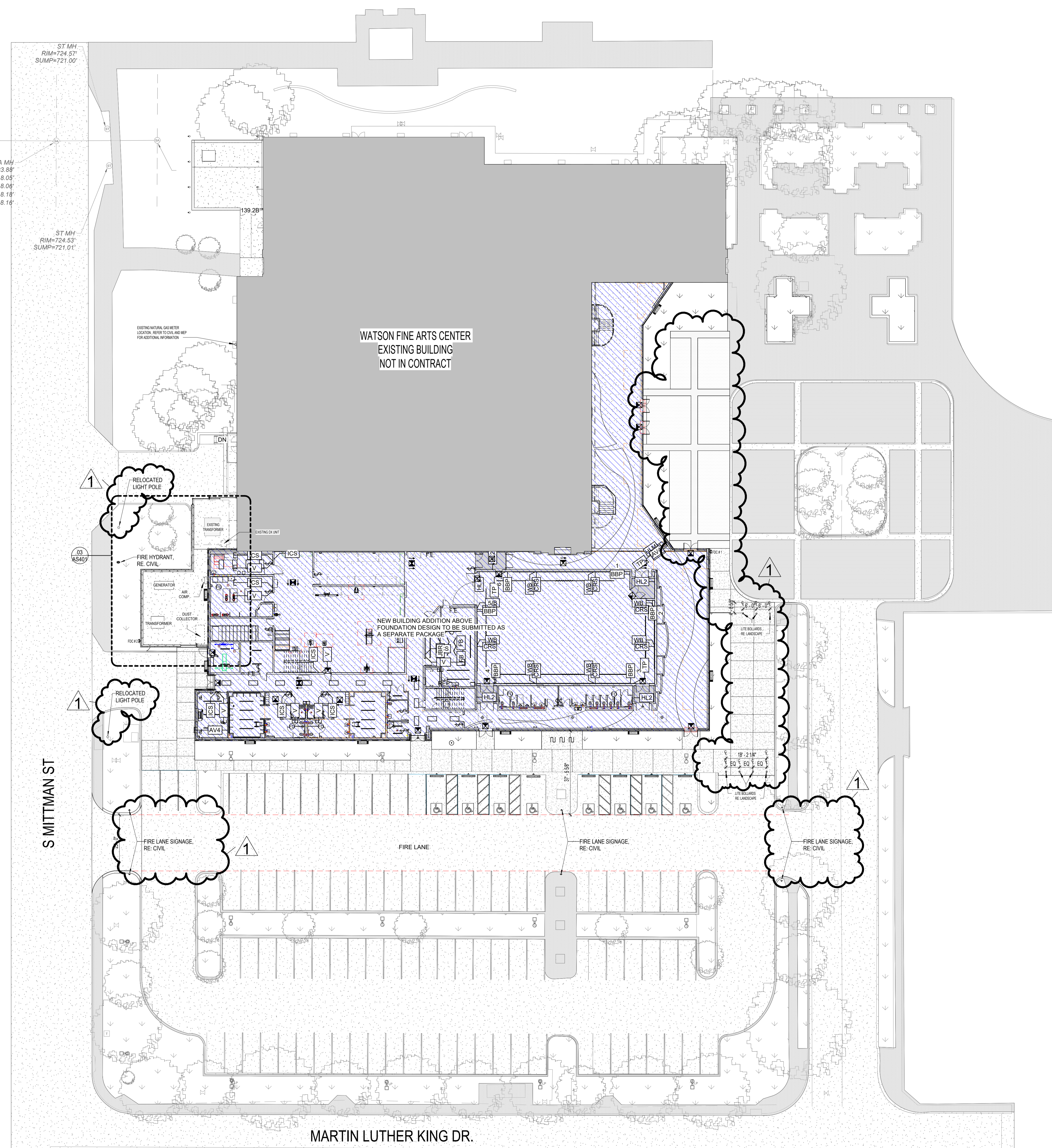
## DEMOLITION ARCHITECTURAL SITE PLAN

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"



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.



ARCHITECT	PBK Architects, Inc.
ARCHITECT	BA & ARCHITECTS
ARCHITECT	CELANESE
ARCHITECT	LANDSCAPE
ARCHITECT	ROSE AND OSCAR
ARCHITECT	STRUCTURAL
ARCHITECT	LUNY & FRANK ENGINEERING
ARCHITECT	MECHANICAL
ARCHITECT	ELECTRICAL
ARCHITECT	MECHANICAL
ARCHITECT	MECHANICAL
ARCHITECT	MECHANICAL
ARCHITECT	MECHANICAL
ARCHITECT	MECHANICAL

WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION

ALAMO COLLEGES  
ST. PHILIP'S COLLEGE

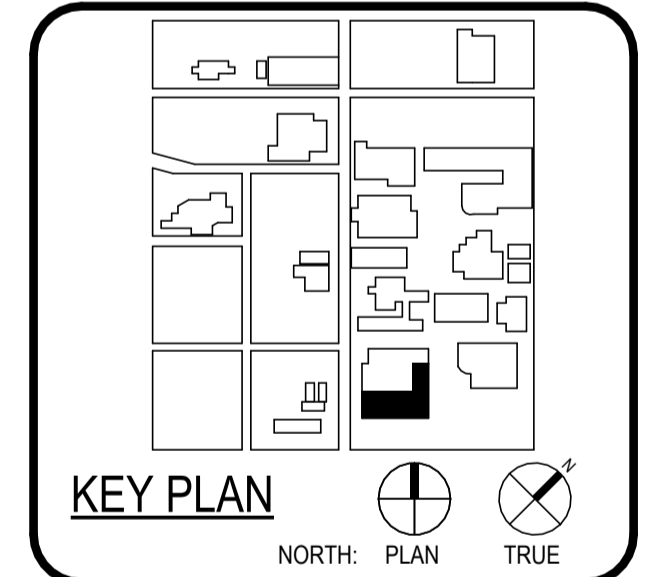
BRICK QUANTITY TAKEOFF

LISTED AREAS ARE ACTUAL SQ. FT. TAKE-OFF FROM THE PACKAGE 2  
60% CD SET. GC TO ORDER OVERAGE/WASTE AS REQUIRED.

ORANGE BRICK - 12,200 SF  
WHITE BRICK - 2,275 SF

IF SPANDREL REPLACEMENT FOR BRICK VE OPTION IS SELECTED  
ADDED BRICK COUNT

ORANGE BRICK - 490 SF  
WHITE BRICK - 155 SF



ARCH SITE PLAN LEGEND

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

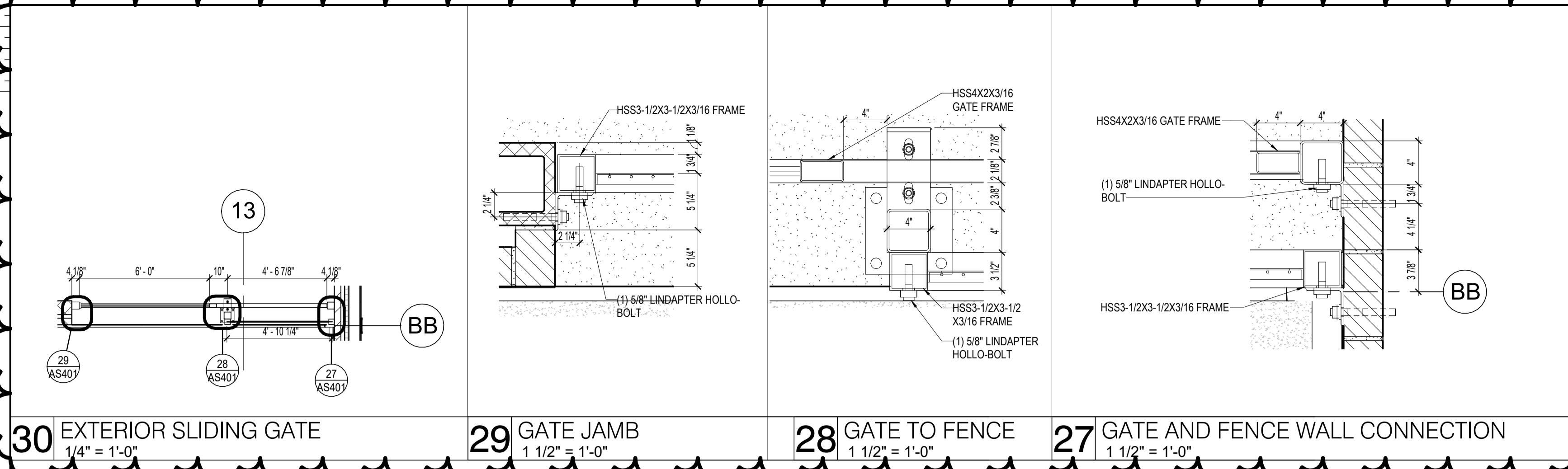


CLIENT		Alamo Colleges	
DATE	2024/06/14	PROJECT NUMBER	230462
DRAWING HISTORY			
No.	Description	Date	
1	ASI #1 - CITY & OWNER COMMENTS	6-14-2024	

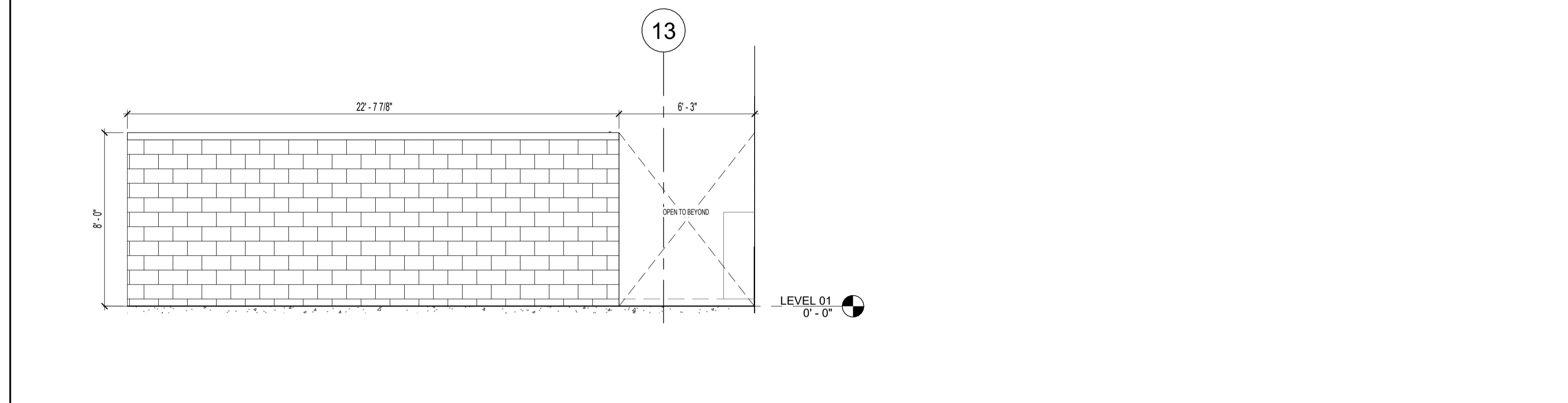
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BUILDING NUMBER 1

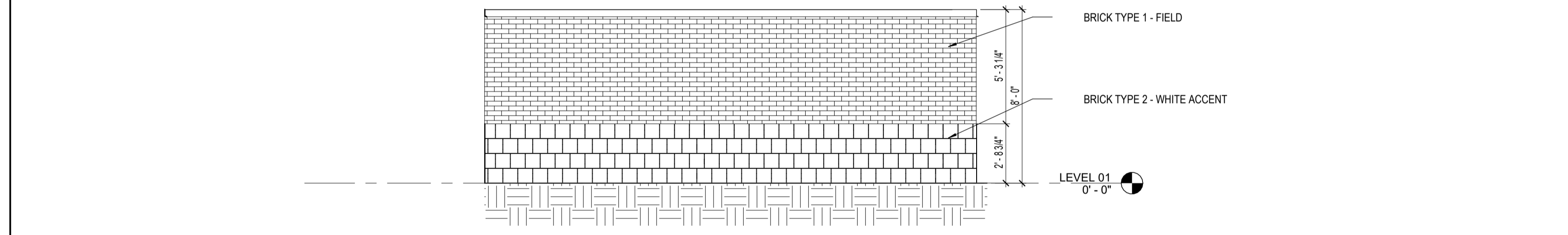
ARCHITECTURAL SITE PLAN



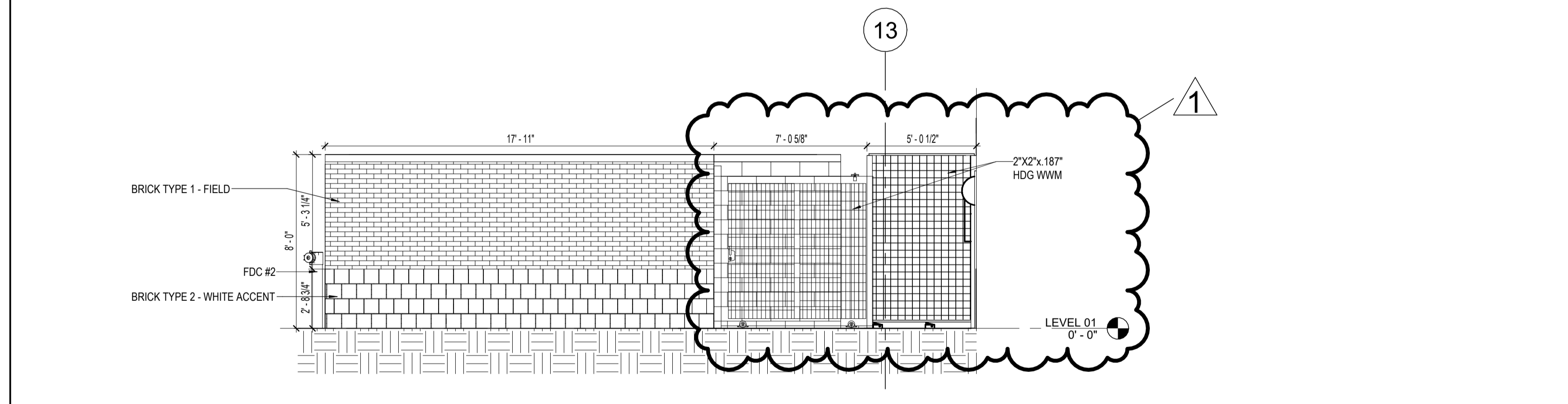
**30** EXTERIOR SLIDING GATE 1/4" = 1'-0"  
**29** GATE JAMB 1 1/2" = 1'-0"  
**28** GATE TO FENCE 1 1/2" = 1'-0"  
**27** GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



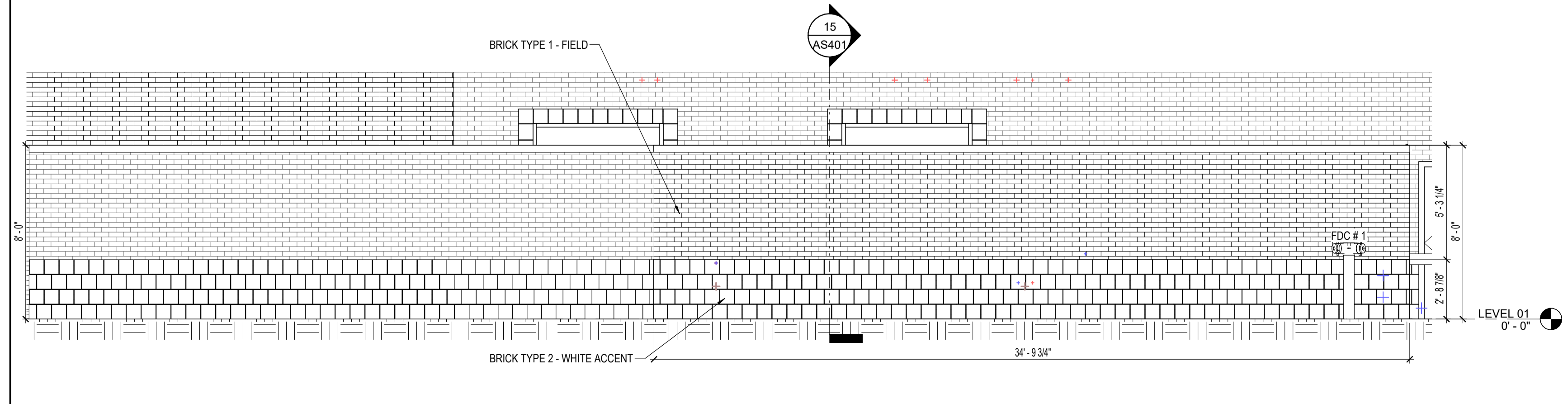
**24** NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



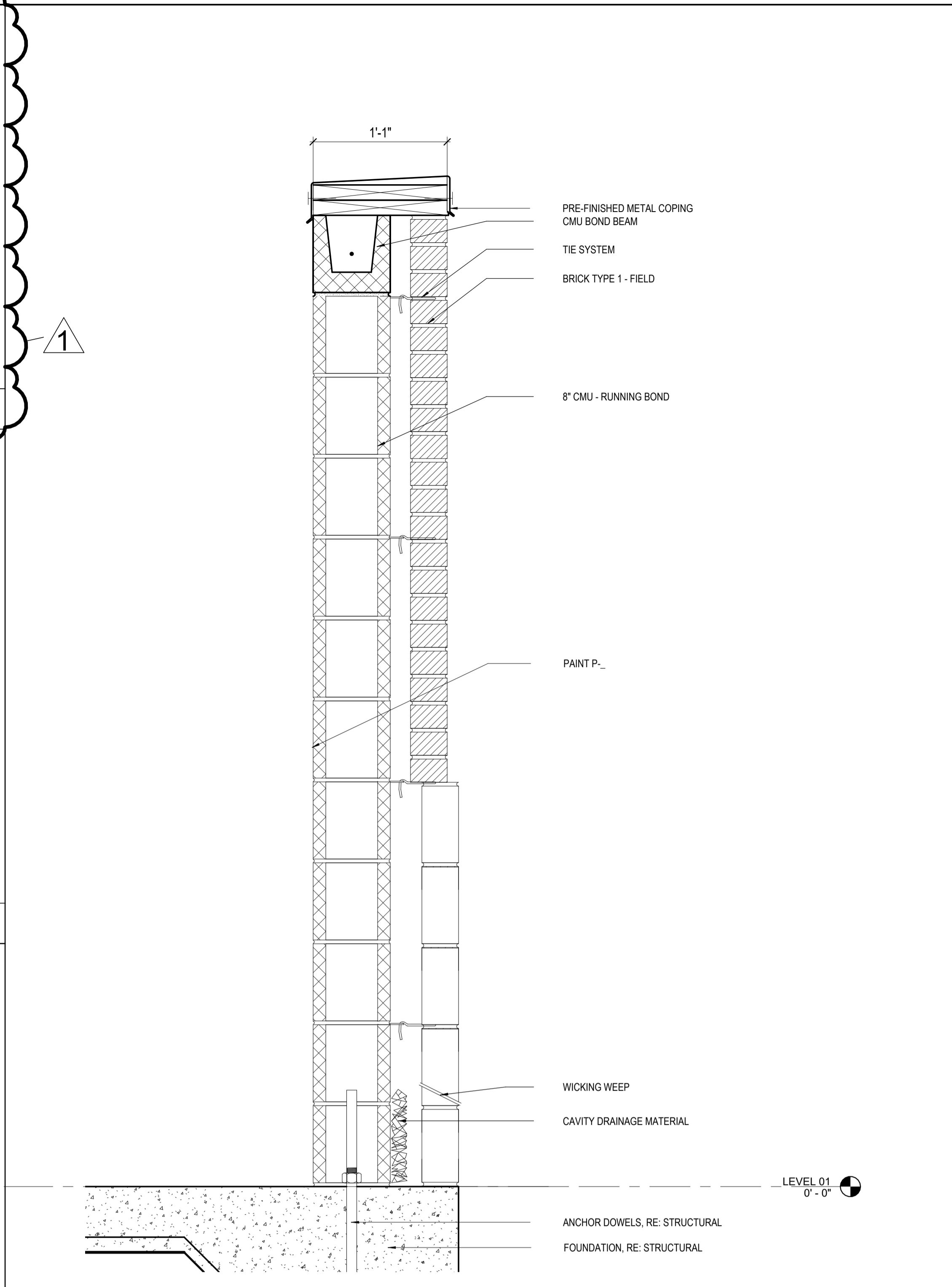
**18** EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



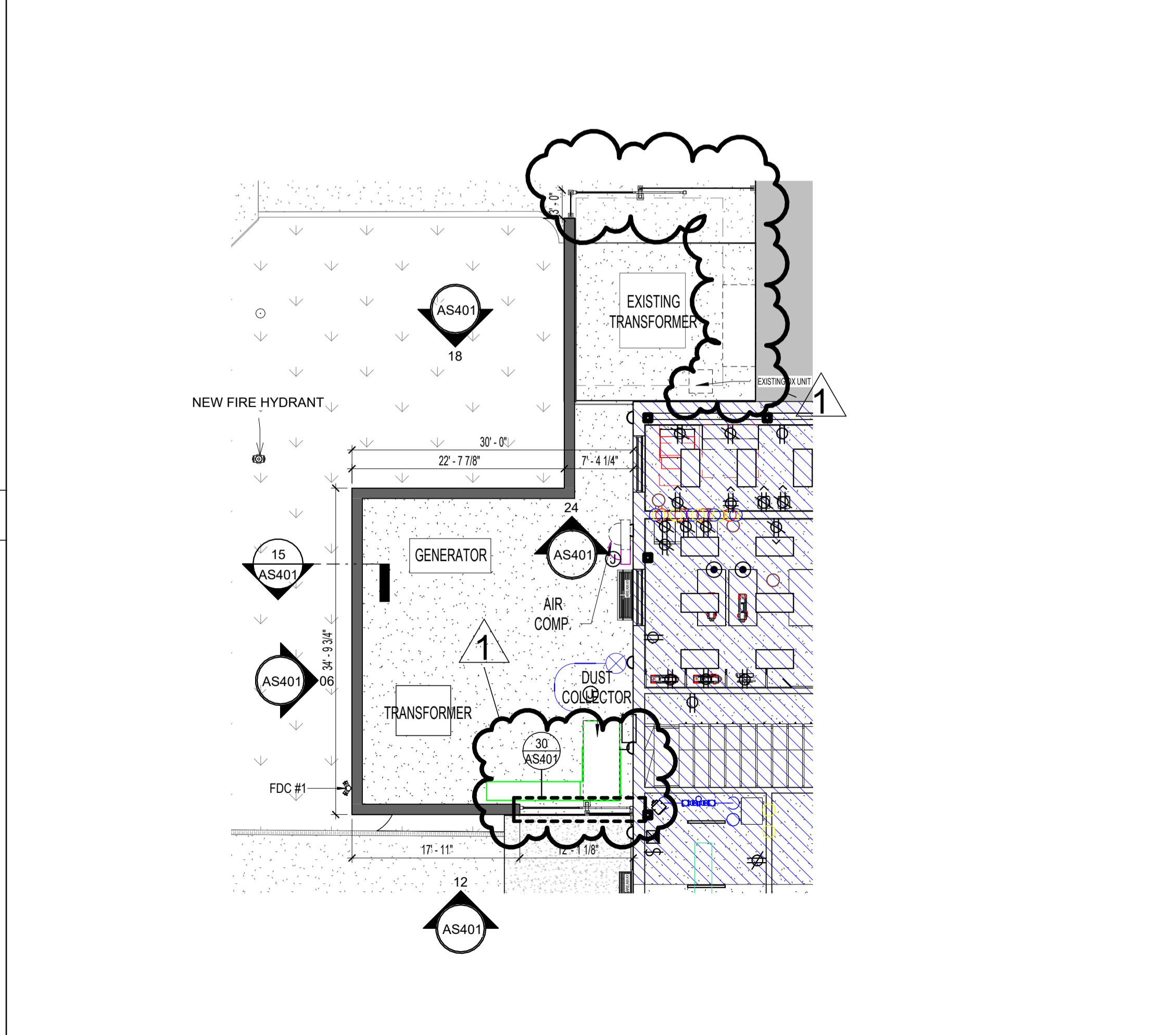
**12** EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



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



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



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

**GENERAL ARCH SITE PLAN NOTES**

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

**KEYNOTE LEGEND**

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

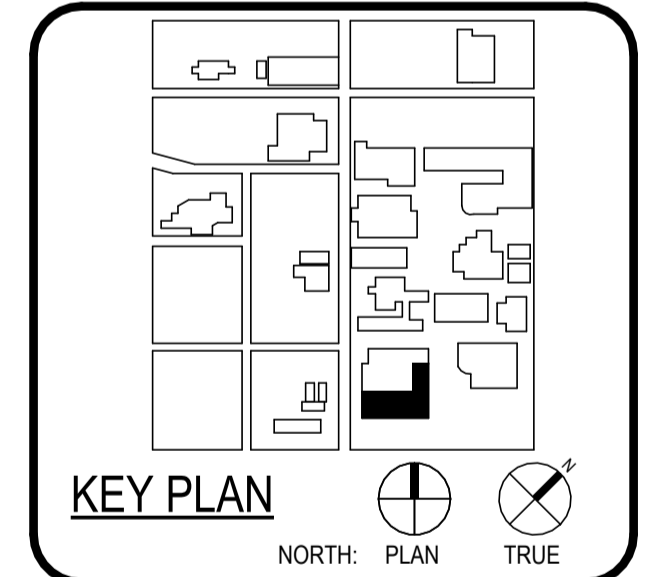
**ARCH SITE PLAN LEGEND**

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



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

**WFAC Black Box Addition PKG 1**



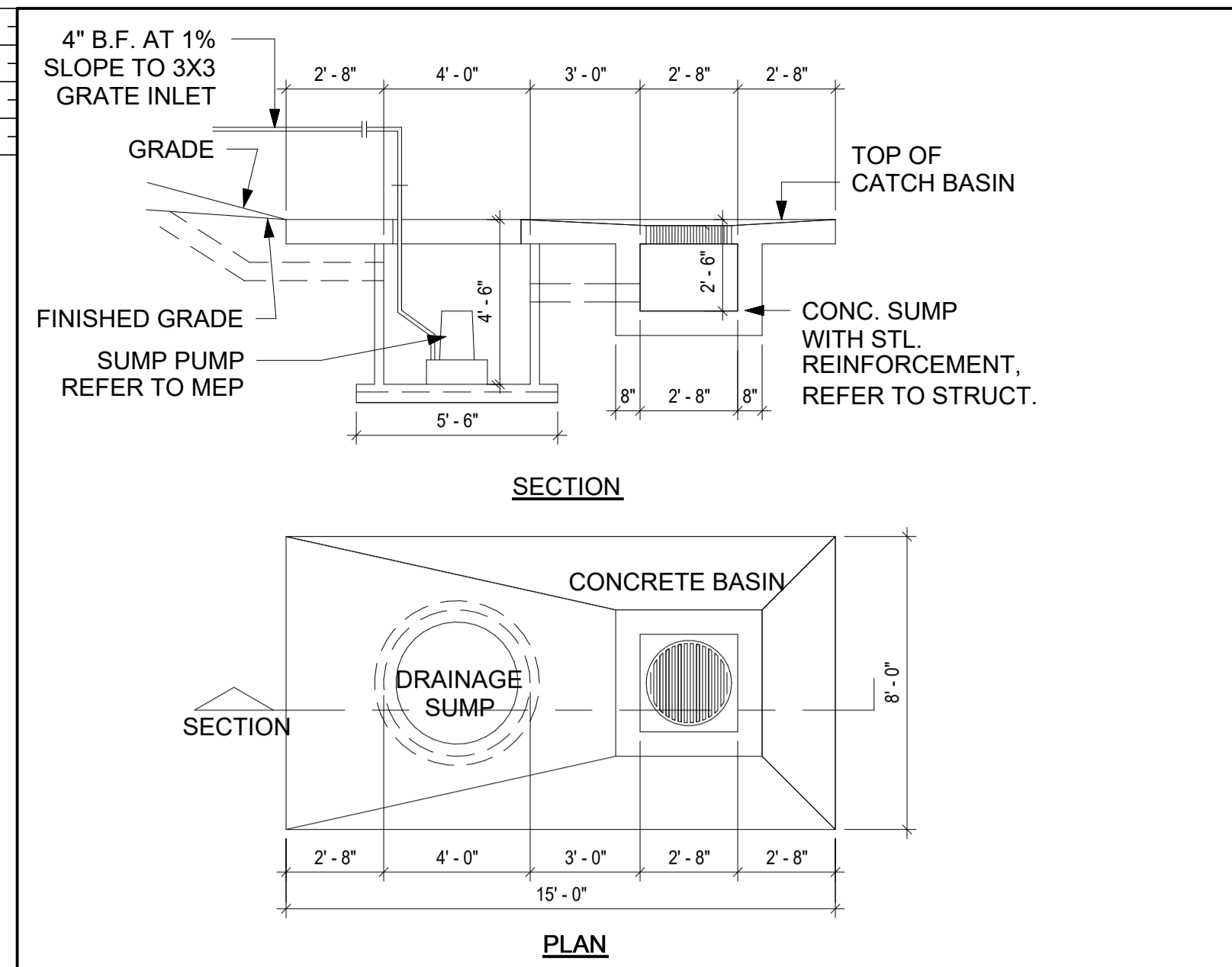
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
1	AS1 #1 - CITY & OWNER COMMENTS	6-14-2024

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER 1

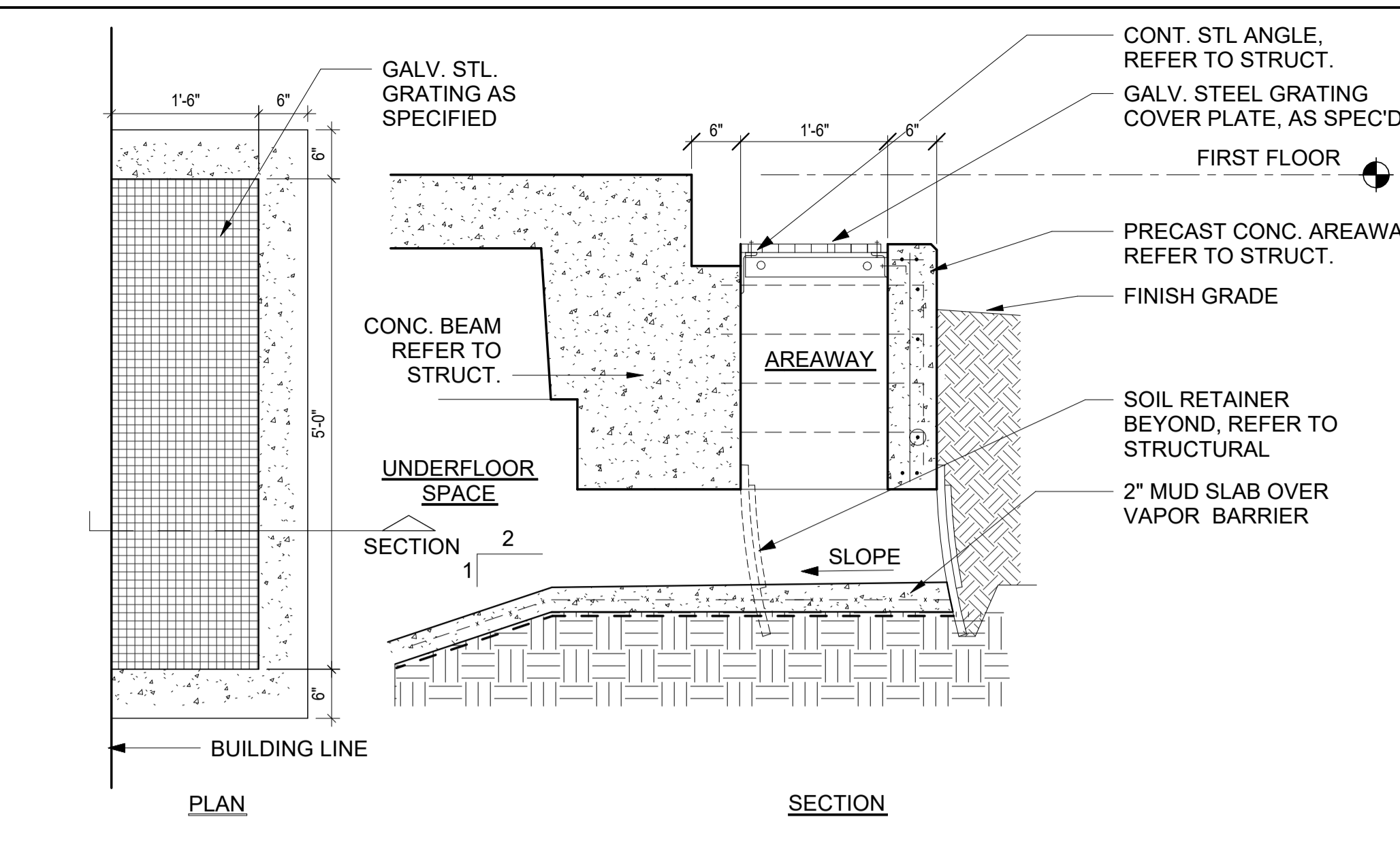
**ARCHITECTURAL ENLARGED SITE PLANS**

**AS401**

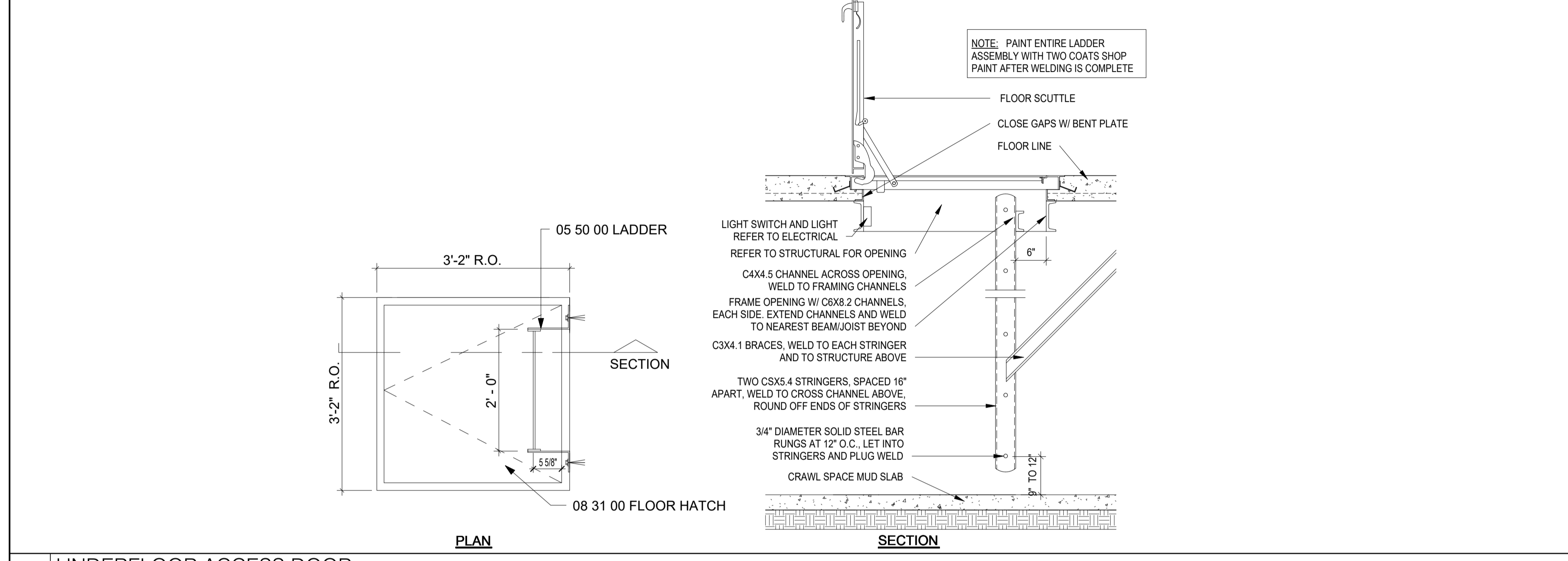




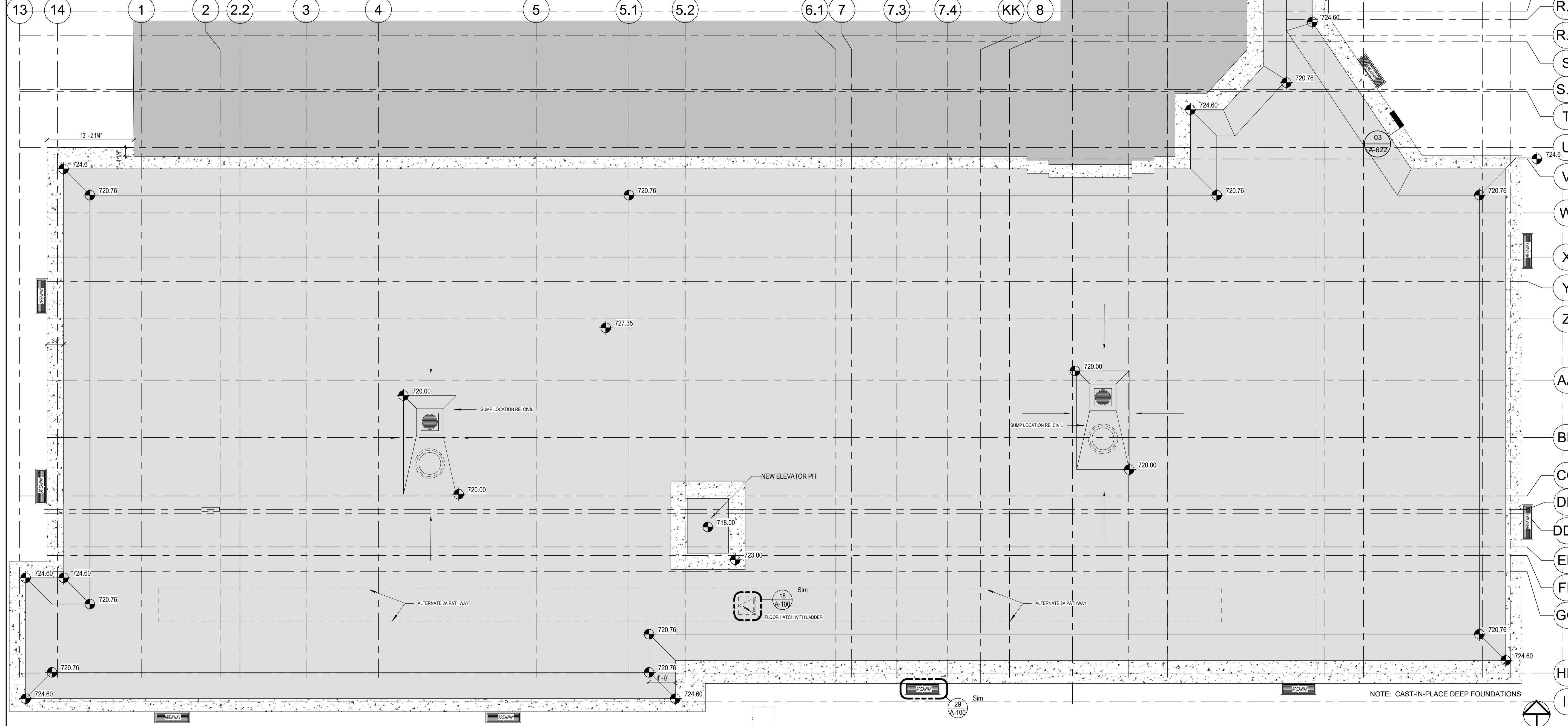
**30 UNDERGROUND SUMP PUMP DETAIL**  
1/4" = 1'-0"



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



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

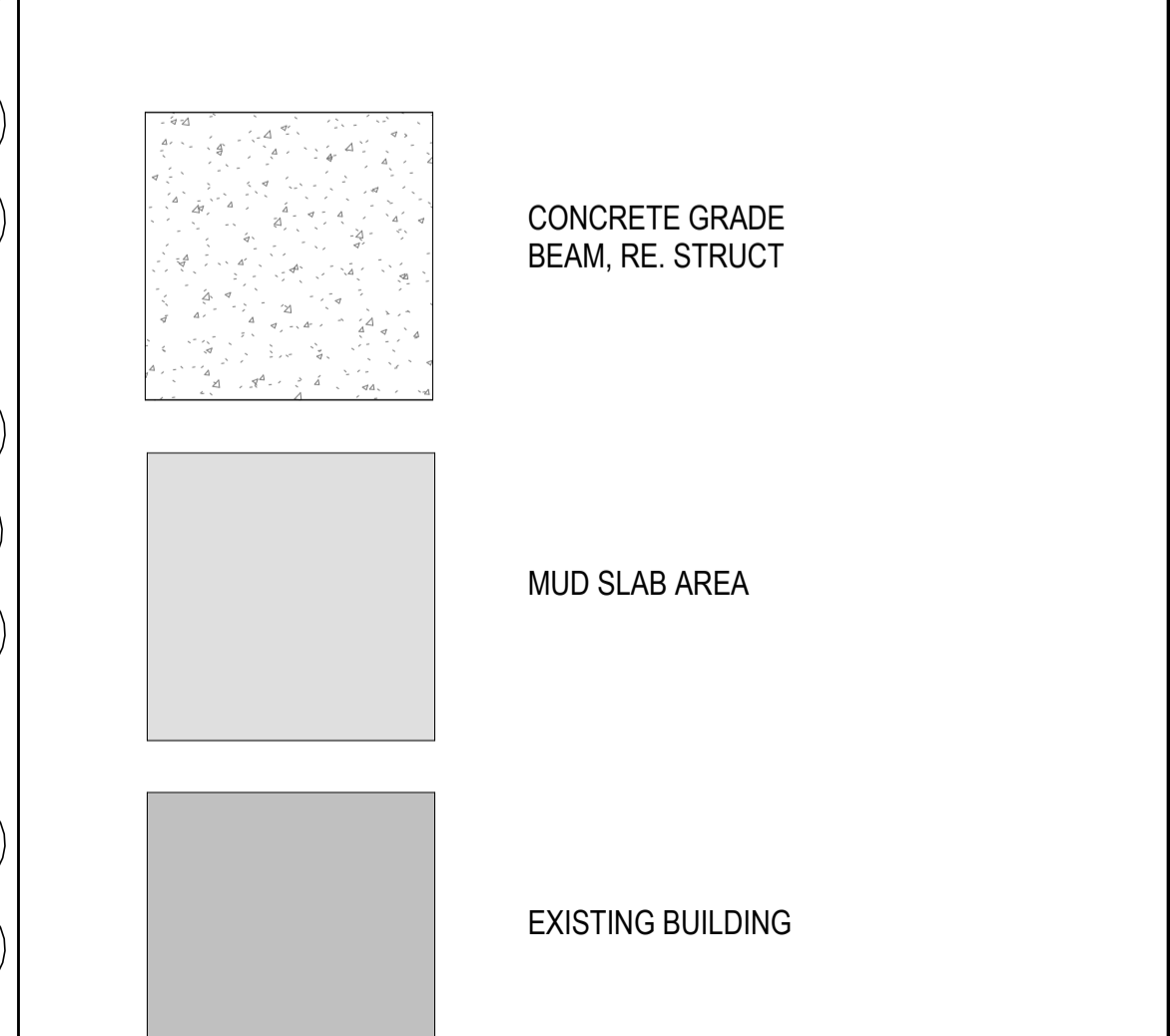


**06 CRAWLSPACE**  
1/8" = 1'-0"

**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 "NTS" 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.
- 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.
- ADJOIN FINISHED 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.

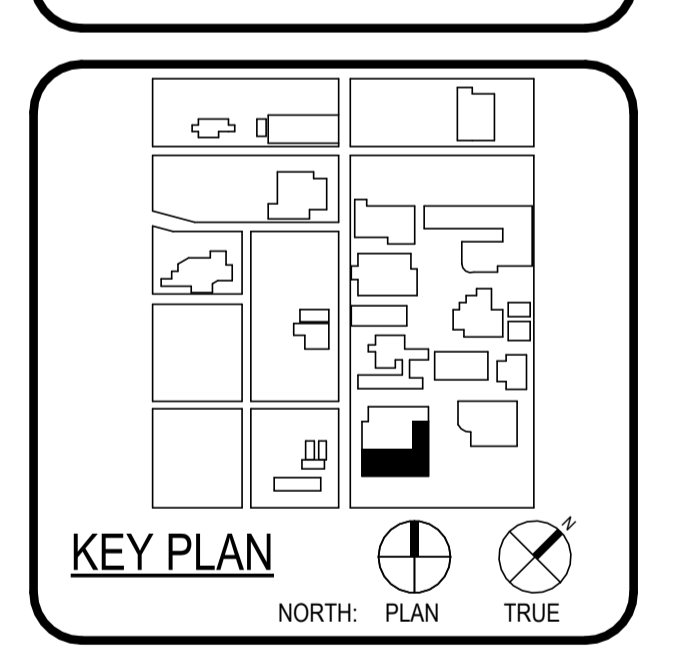
**FLOOR FINISH LEGEND**



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

**ISSUE FOR CONSTRUCTION**



CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	1	
<b>CRAWLSPACE FLOOR PLAN - COMPOSITE</b>		

0'  
1'

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

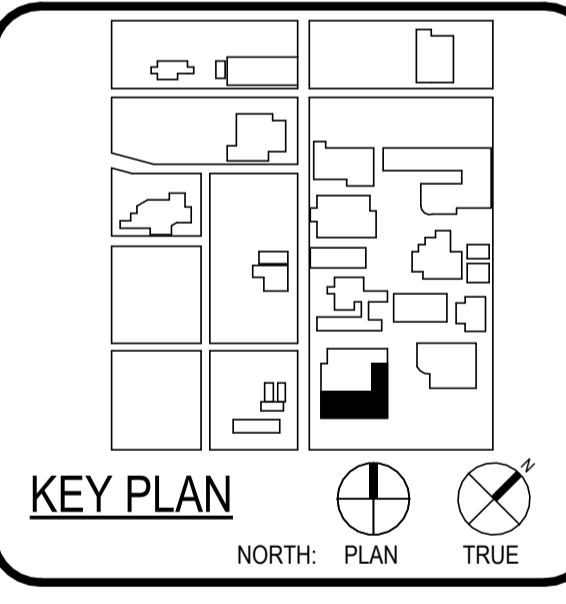


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSOCIATE ARCHITECT	BA ARCHITECTS
CONSULTING ENGINEER	CE
CONSULTING ENGINEER	CE
LANDSCAPE ARCHITECT	LA
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED
REGISTERED PROFESSIONAL	REGISTERED

WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



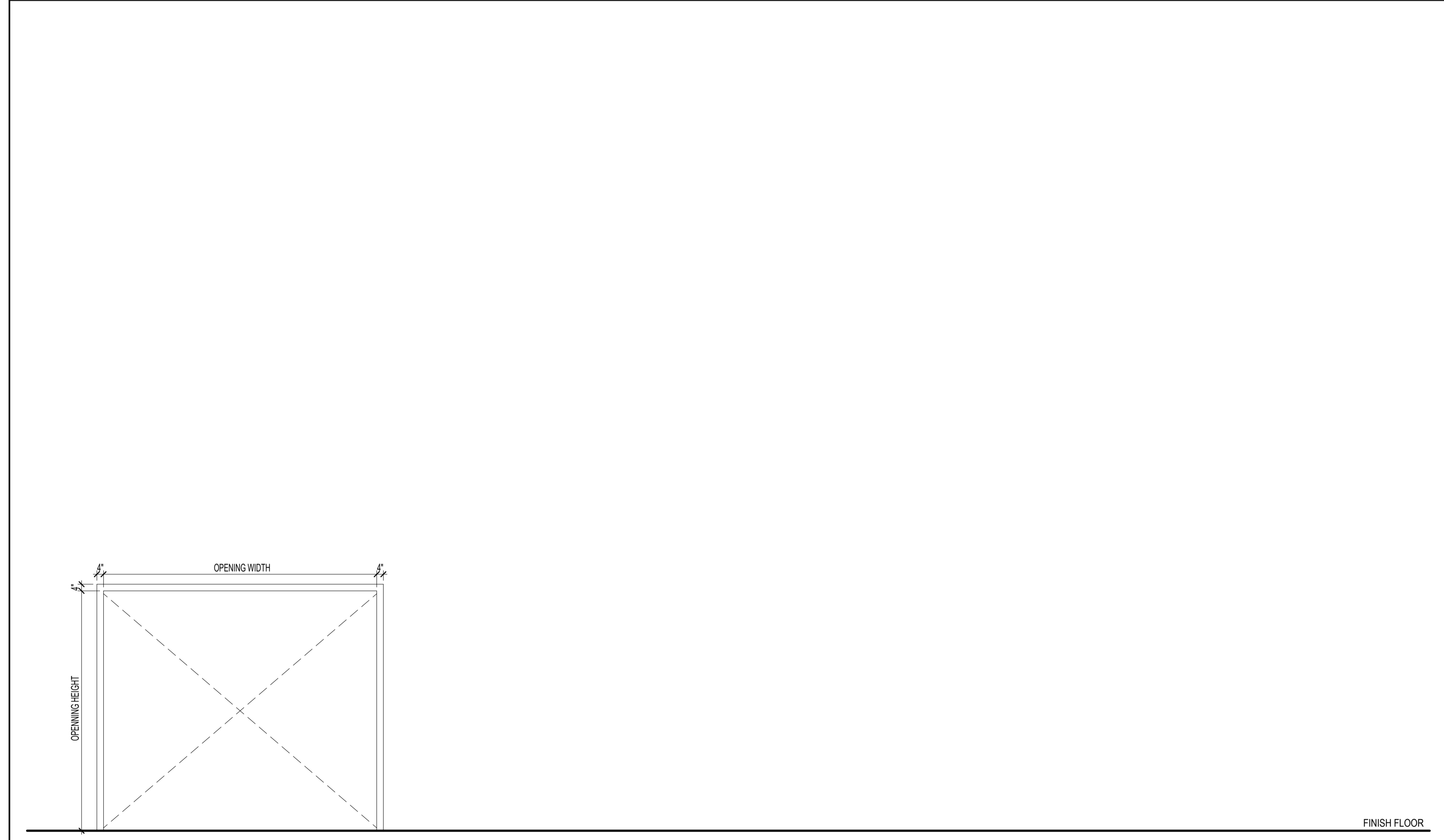
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DATE	2024/06/14	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

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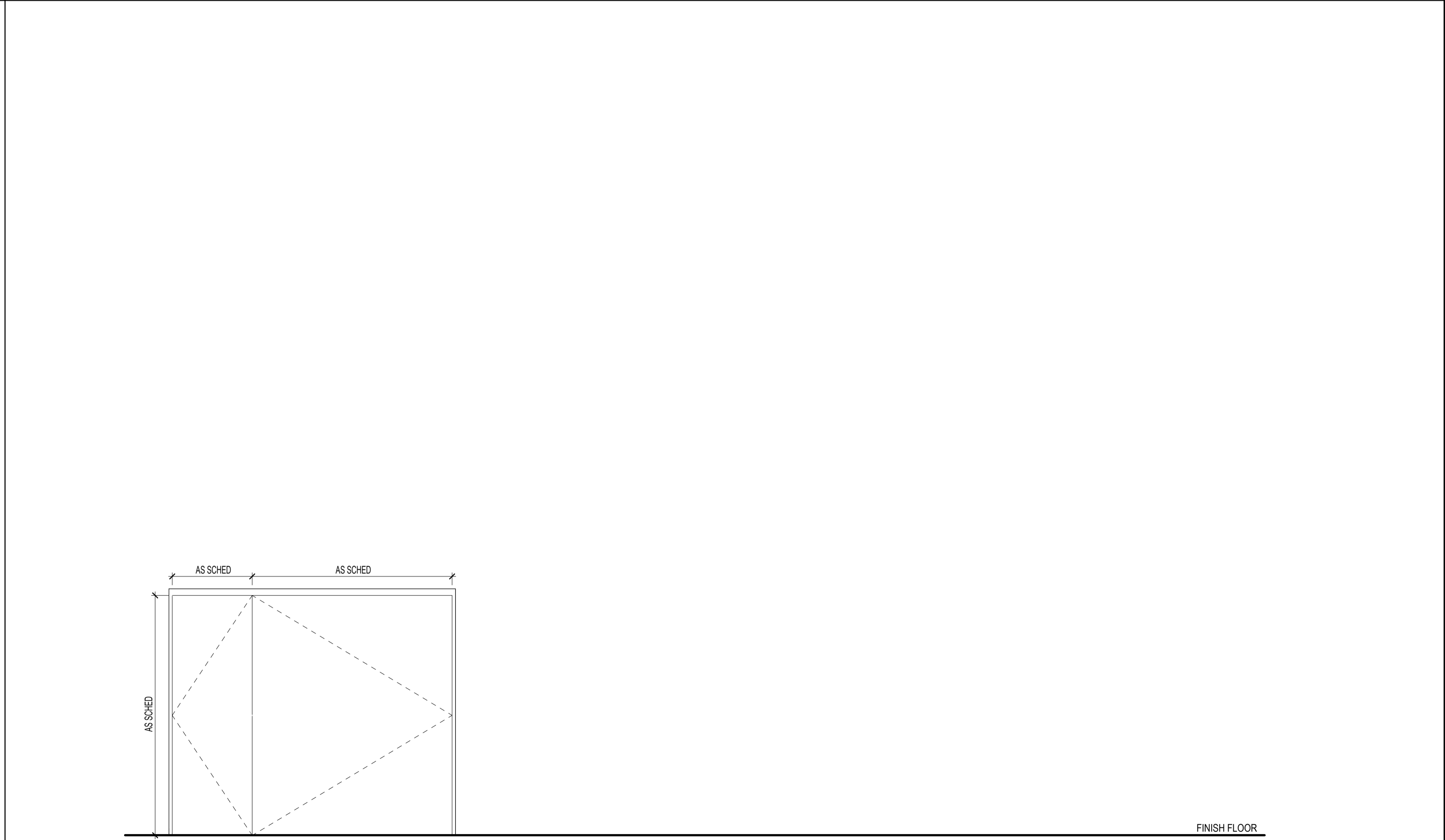
BUILDING NUMBER 1

**DOOR SCHEDULE  
PANEL AND FRAME  
TYPES**

A-811



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



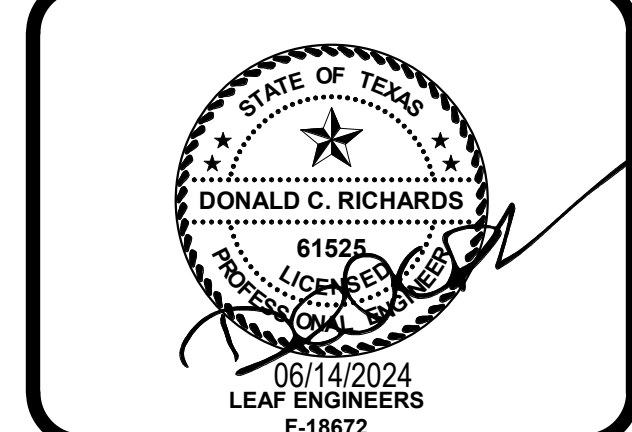
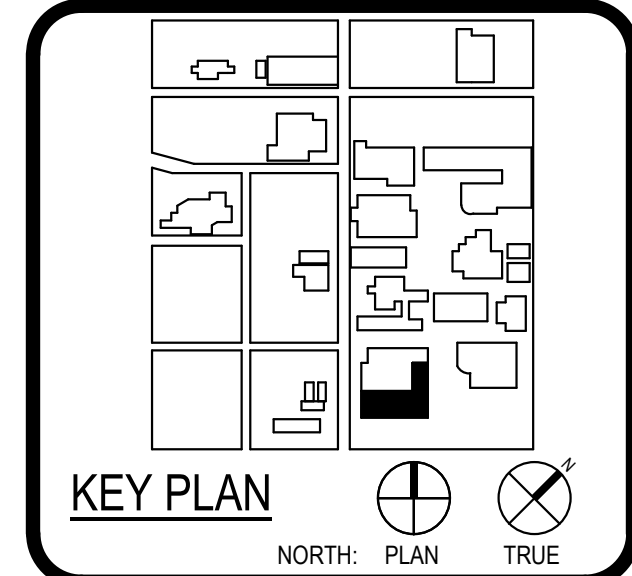
DOOR PANEL TYPES PKG 1  
1/4" = 1'-0"

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 2100 11510 SW LANDSCAPE KORDE AND ASSOC 113146/022
MECHANICAL	LEAF ENGINEERS 1801 Marlin Luther King Dr., San Antonio, TX 78203
ELECTRICAL	LUNNEY & FRANK ENGINEERING 1105 W. 14th St. San Antonio, TX 78207
CIVIL	LEAF ENGINEERS 1801 Marlin Luther King Dr., San Antonio, TX 78203
PLUMBING	LEAF ENGINEERS 1801 Marlin Luther King Dr., San Antonio, TX 78203
MECHANICAL	LEAF ENGINEERS 1801 Marlin Luther King Dr., San Antonio, TX 78203



WFAC Black Box Addition PKG 1

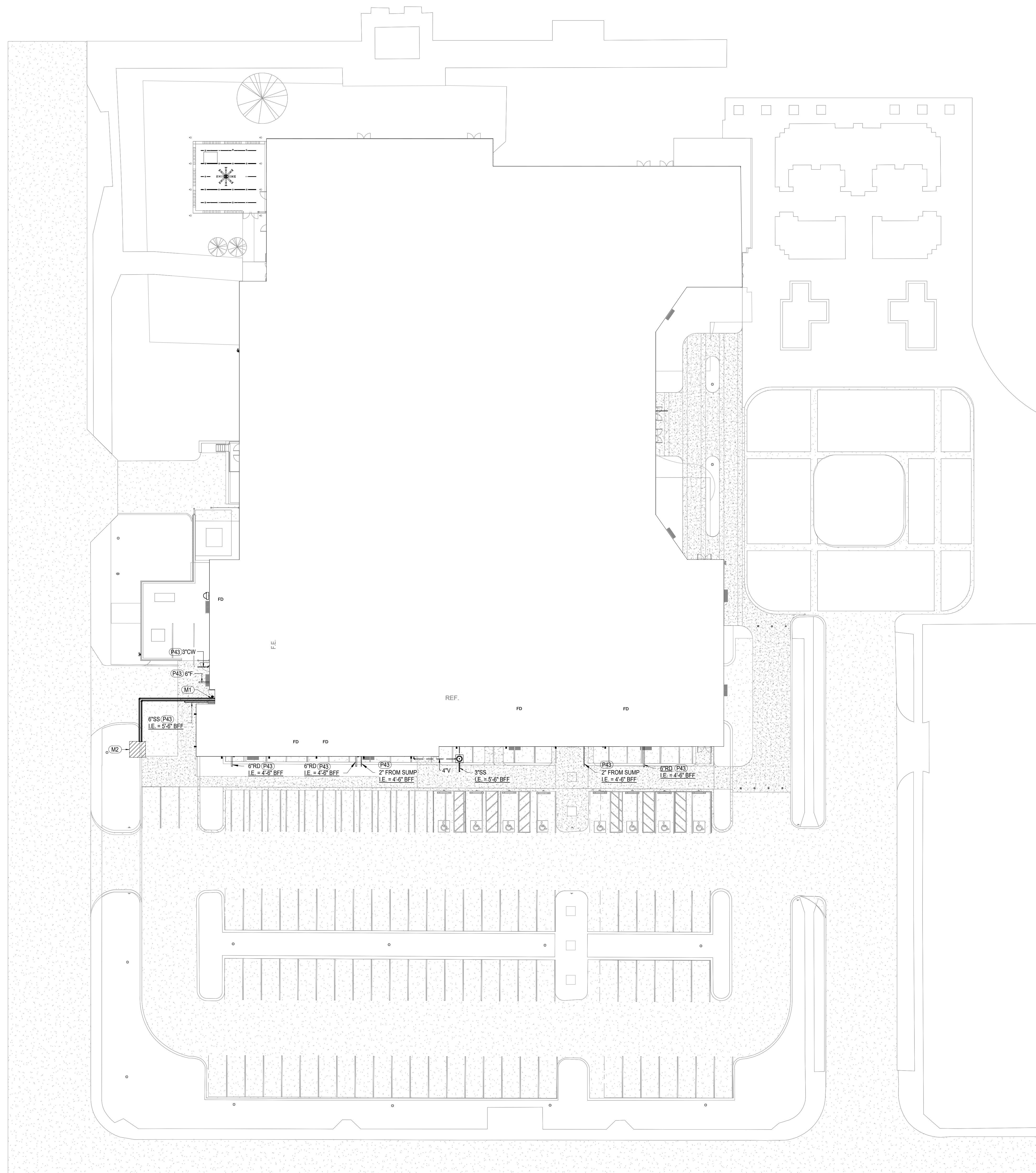
1801 Marlin Luther King Dr.,  
San Antonio, TX 78203  
ISSUE FOR CONSTRUCTION



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DRAWING HISTORY		
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BUILDING NUMBER	1	

MECHANICAL AND PLUMBING SITE PLAN

MPS-101



KEYNOTES ALL

- M1 4" CHW/WR 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. REFER TO CIVIL DWGS. FOR CONTINUATION.
- P43 REFER TO CIVIL DWGS. FOR CONTINUATION.

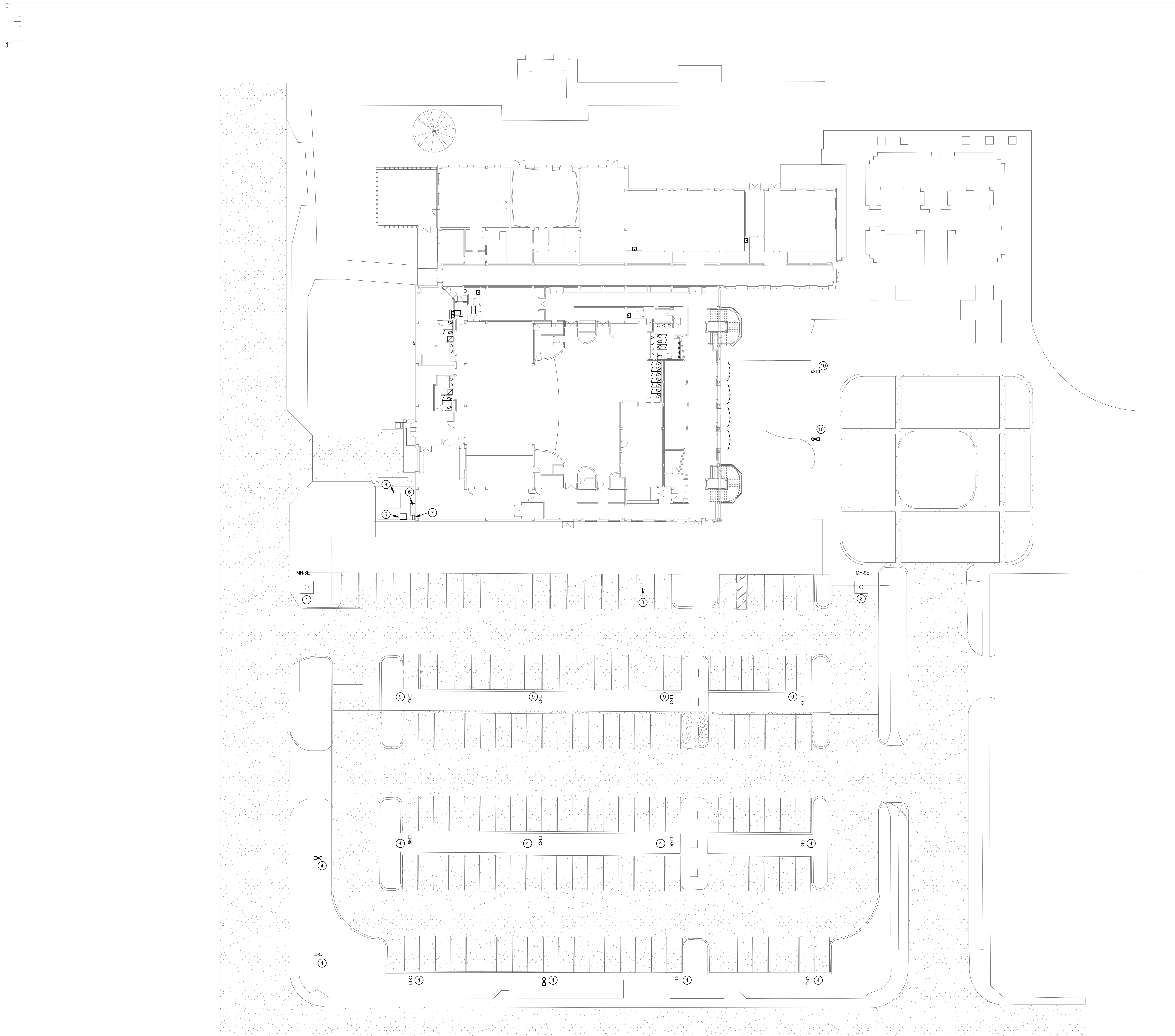
ISSUE FOR CONSTRUCTION

1 MECHANICAL AND PLUMBING SITE PLAN  
SCALE: 1" = 20'-0"

# ISSUE FOR CONSTRUCTION

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

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

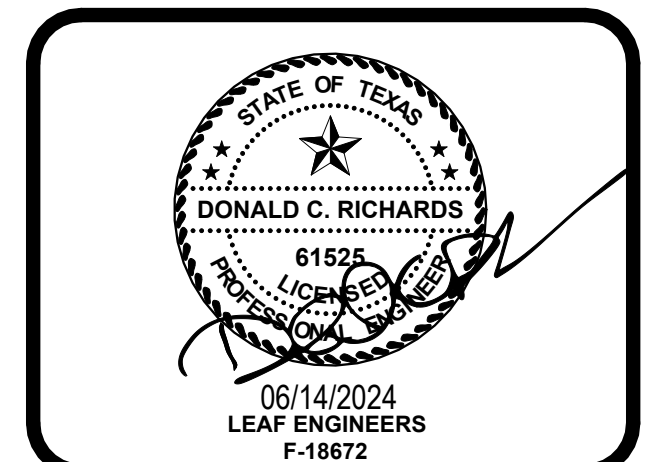
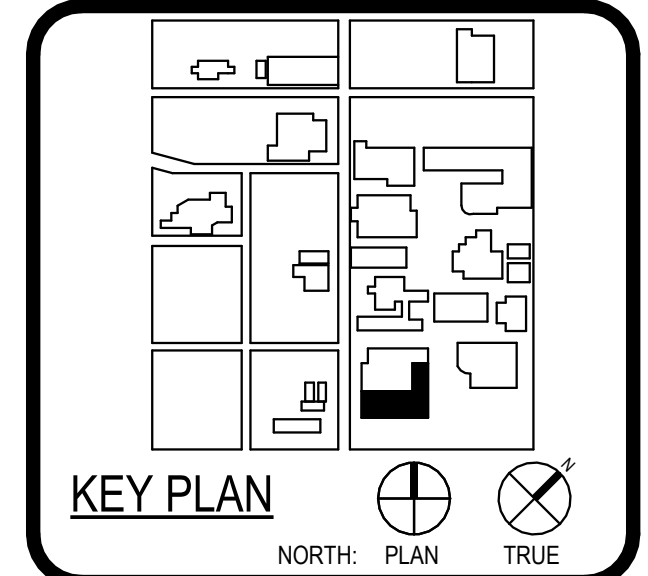
**1 DEMO SITE POWER PLAN**  
SCALE: 1" = 20'-0"



ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TEXAS 78207 210-454-0000
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, TEXAS 78207 210-454-0000
ELECTRICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
PLUMBING	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203
MECHANICAL	LEAF ENGINEERS 1801 Main Luther King Dr., San Antonio, TX 78203



WFAC Black Box Addition PKG 1



CLIENT	Alamo Colleges	
DATE	06/14/2024	
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No.	Description	Date

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BUILDING NUMBER 1

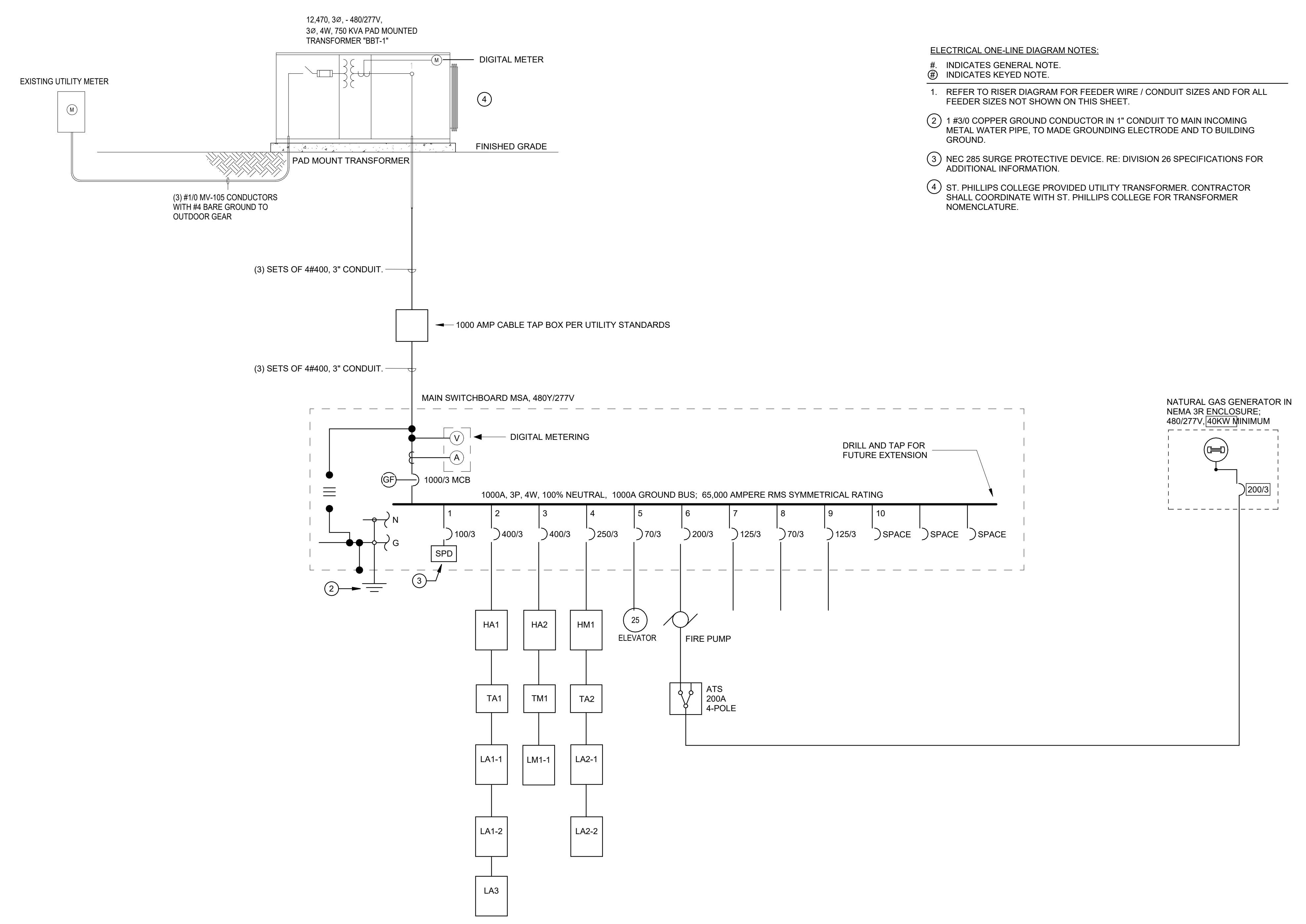
**DEMO SITE POWER PLAN**

**EDS-101**

# ISSUE FOR CONSTRUCTION

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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.

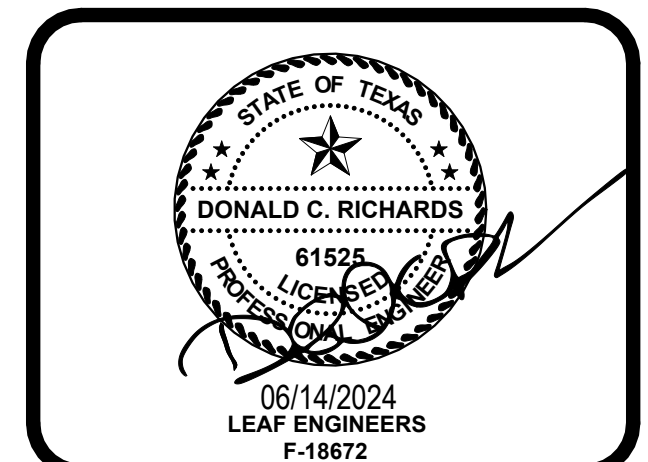
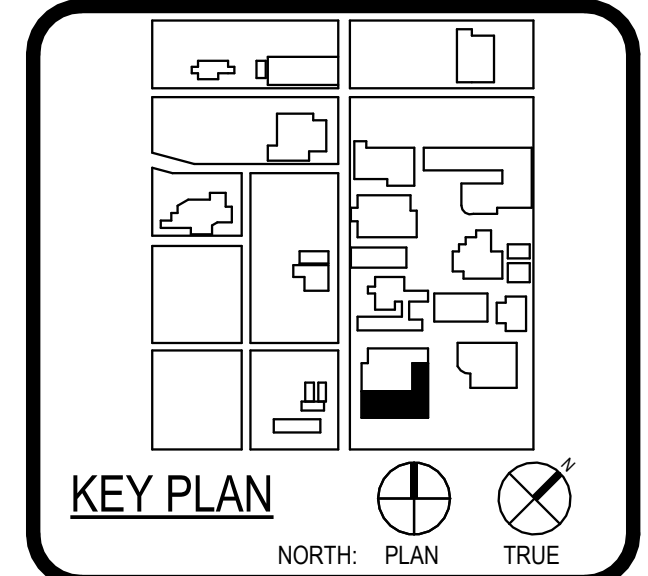


ARCHITECT	PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1200 S. W. 10th St. Fort Worth, TX 76104
CONSULTANT	LANDSCAPE SUSAN LANDSCAPE 1111 W. 10th St. Fort Worth, TX 76104
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 W. 10th St. Fort Worth, TX 76104
ELECTRICAL ENGINEER	LEAF ENGINEERS 1801 Main St. San Antonio, TX 78203
PLUMBING ENGINEER	LEAF ENGINEERS 1801 Main St. San Antonio, TX 78203
MECHANICAL ENGINEER	LEAF ENGINEERS 1801 Main St. San Antonio, TX 78203



WFAC Black Box Addition PKG 1

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

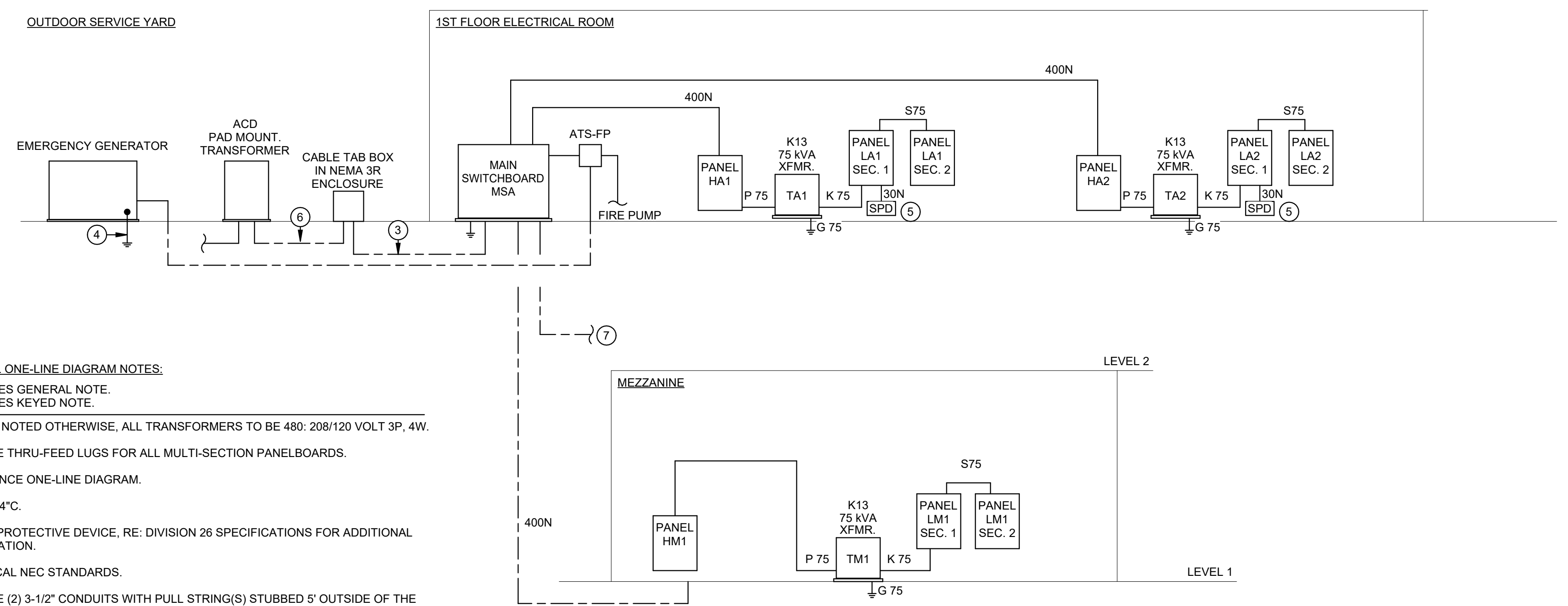


CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1

ELECTRICAL  
 ONE-LINE DIAGRAM

5  
1



- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.  
Ⓢ INDICATES KEYED NOTE.
- UNLESS NOTED OTHERWISE, ALL TRANSFORMERS TO BE 480: 208/120 VOLT 3P, 4W.
  - PROVIDE THRU-FEED LUGS FOR ALL MULTI-SECTION PANELBOARDS.
  - REFERENCE ONE-LINE DIAGRAM.
  - 1#6 G, 3/4"C.
  - SURGE PROTECTIVE DEVICE, RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - PER LOCAL NEC STANDARDS.
  - 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	



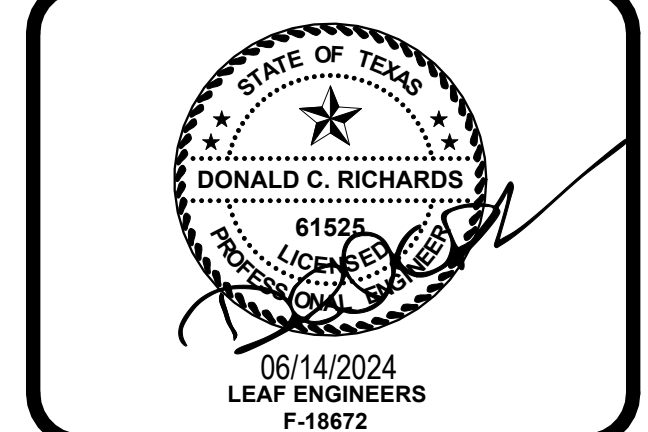
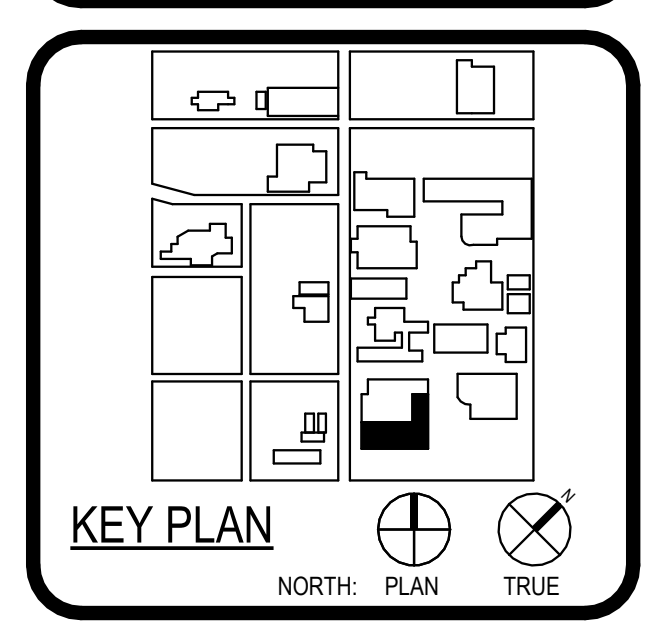
ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-820-0123 P  
210-829-5578 F  
TX Firm BR 1608



WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



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

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. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST.

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

LIGHTING FIXTURE NOTES

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

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

GENERAL ELECTRICAL REMODEL NOTES

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

AFF = ABOVE FINISHED FLOOR AFG = ABOVE FINISHED GRADE

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

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

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

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

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

ELECTRICAL SYMBOL LEGEND

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

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

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

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

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

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

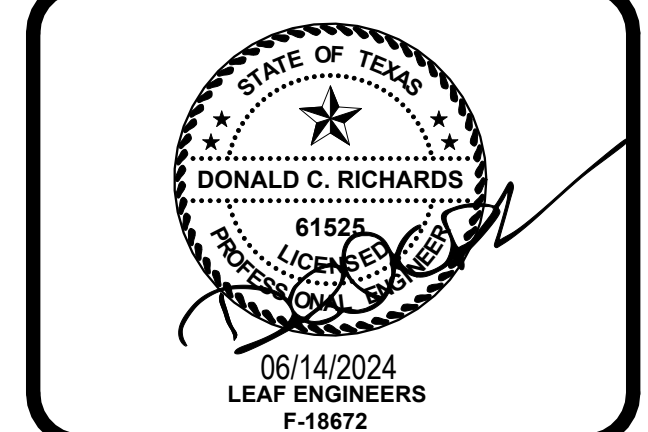
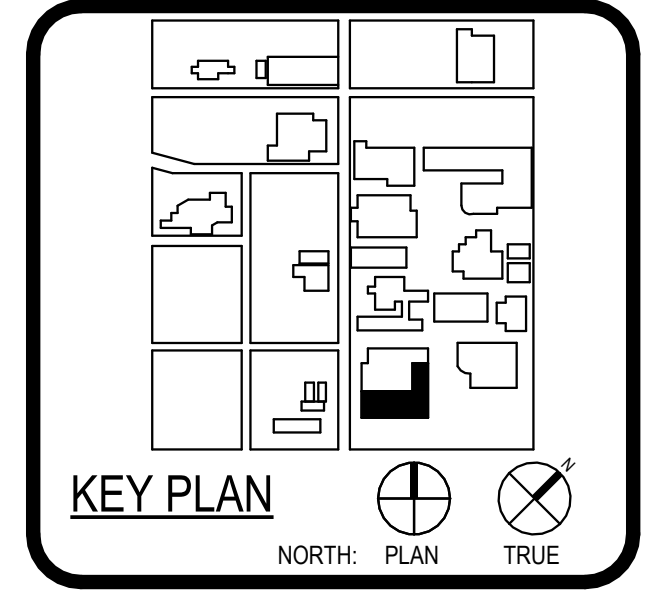
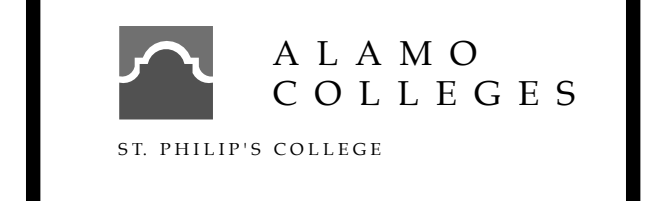
EQUIPMENT: "42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE. MOTOR. DISCONNECT SWITCH...



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



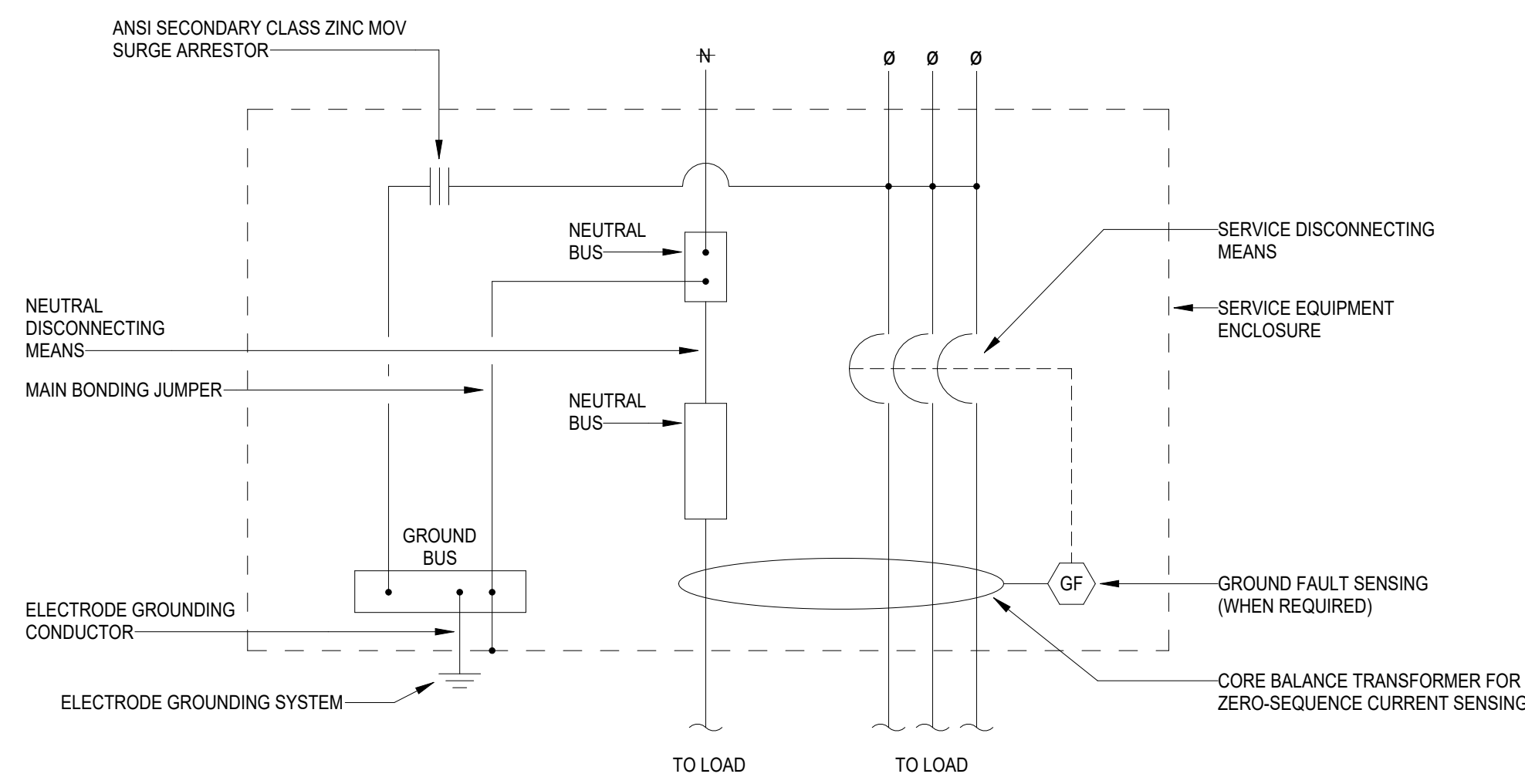
WFAC Black Box Addition PKG 1



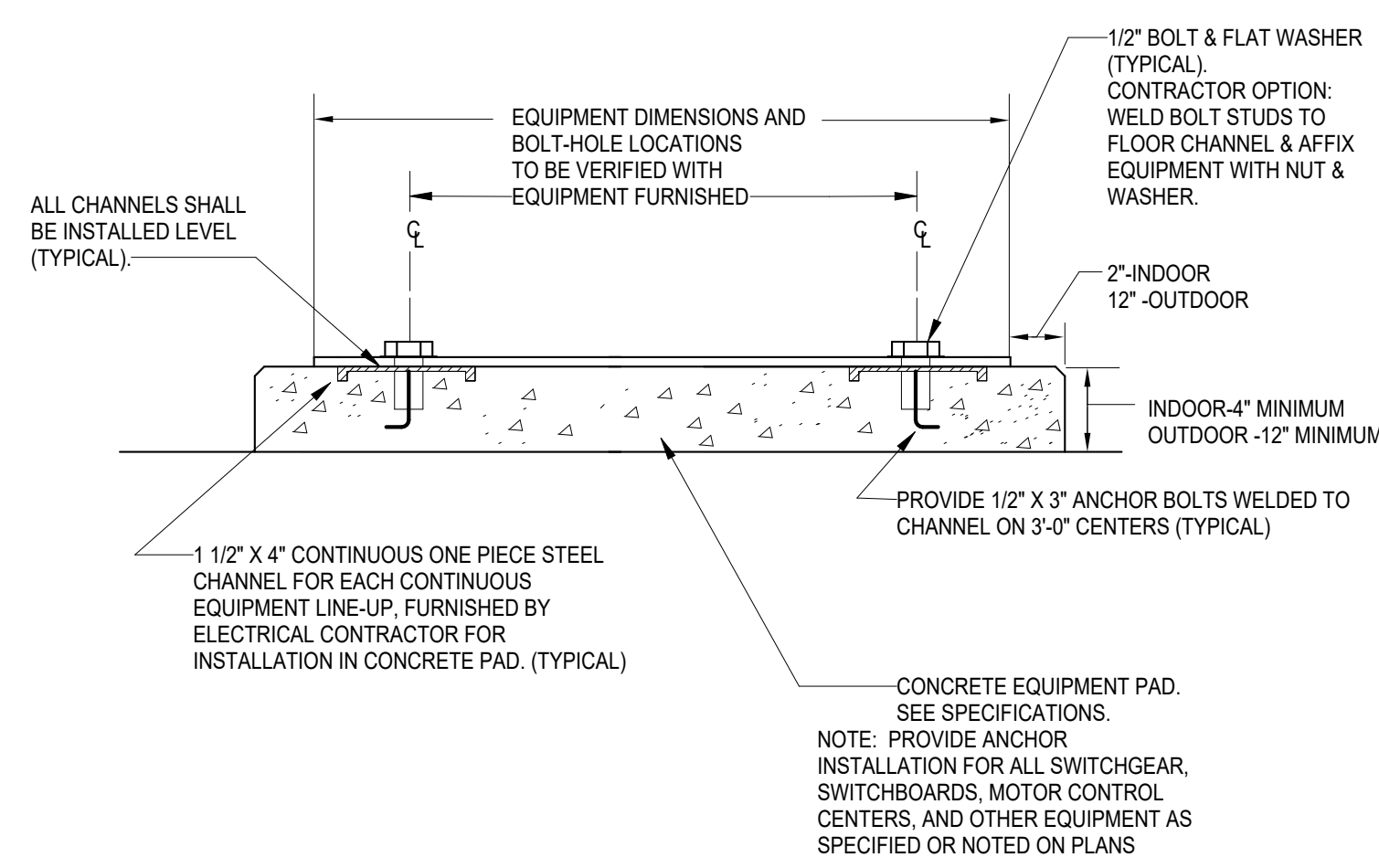
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ISSUE FOR CONSTRUCTION table with BUILDING NUMBER 1

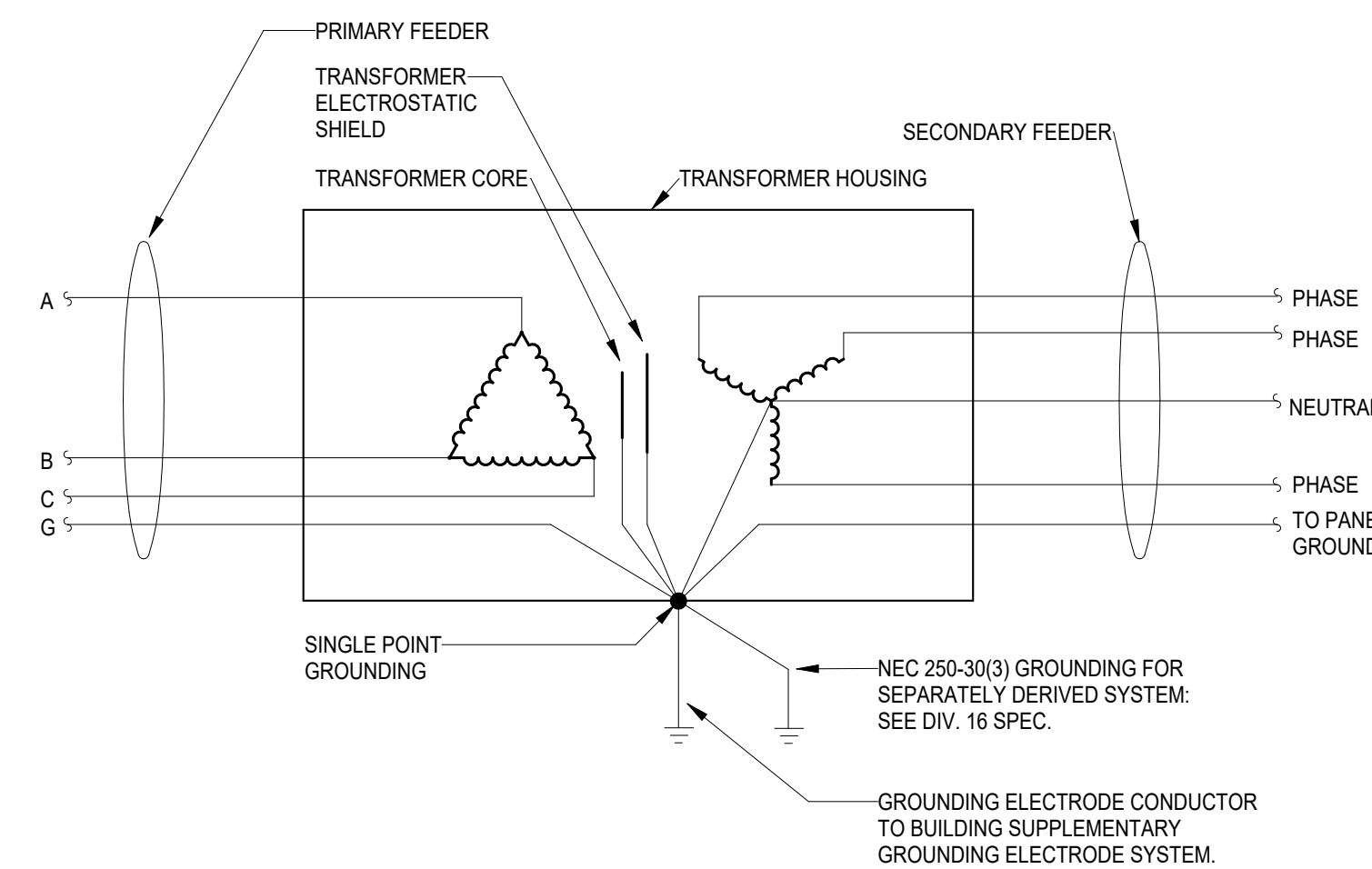
ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE E-601



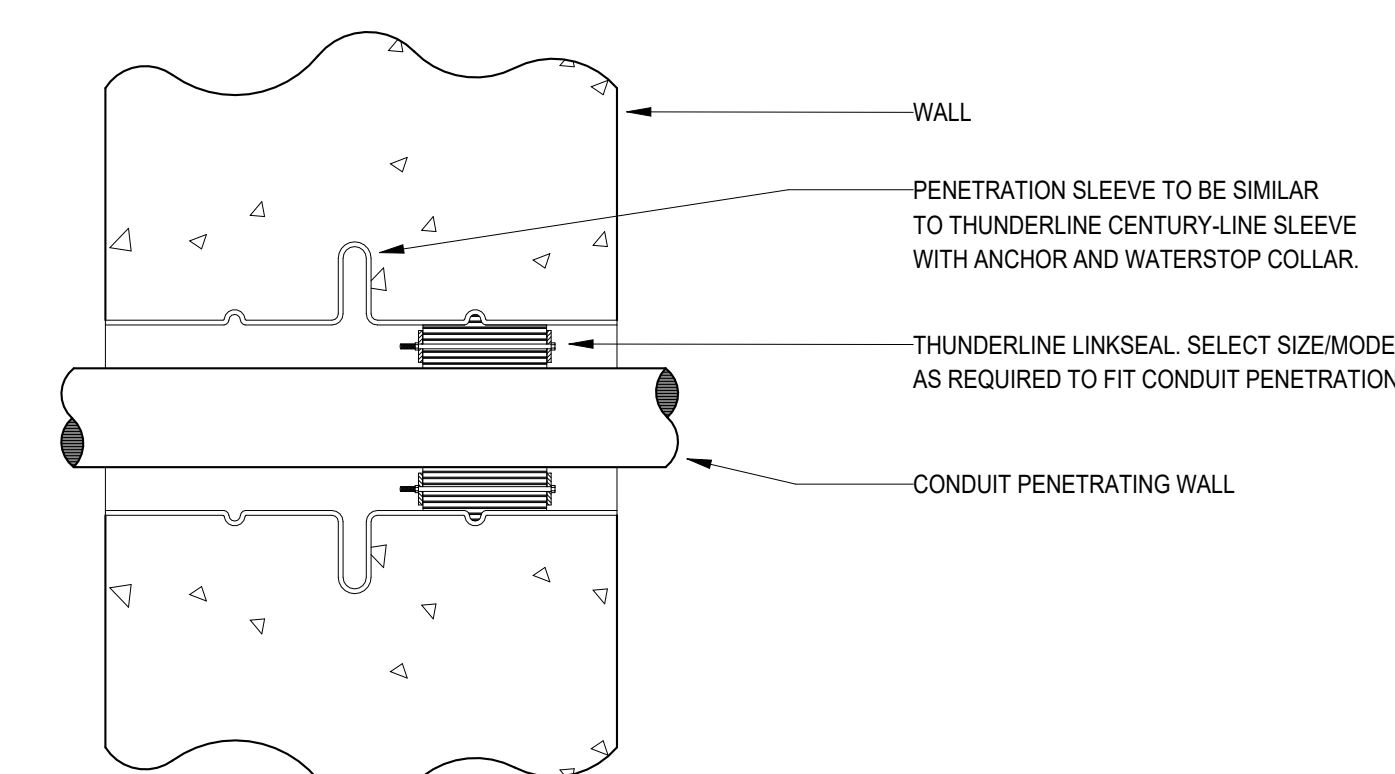
4 ELECTRIC SERVICE GROUNDING DETAIL  
 NOT TO SCALE



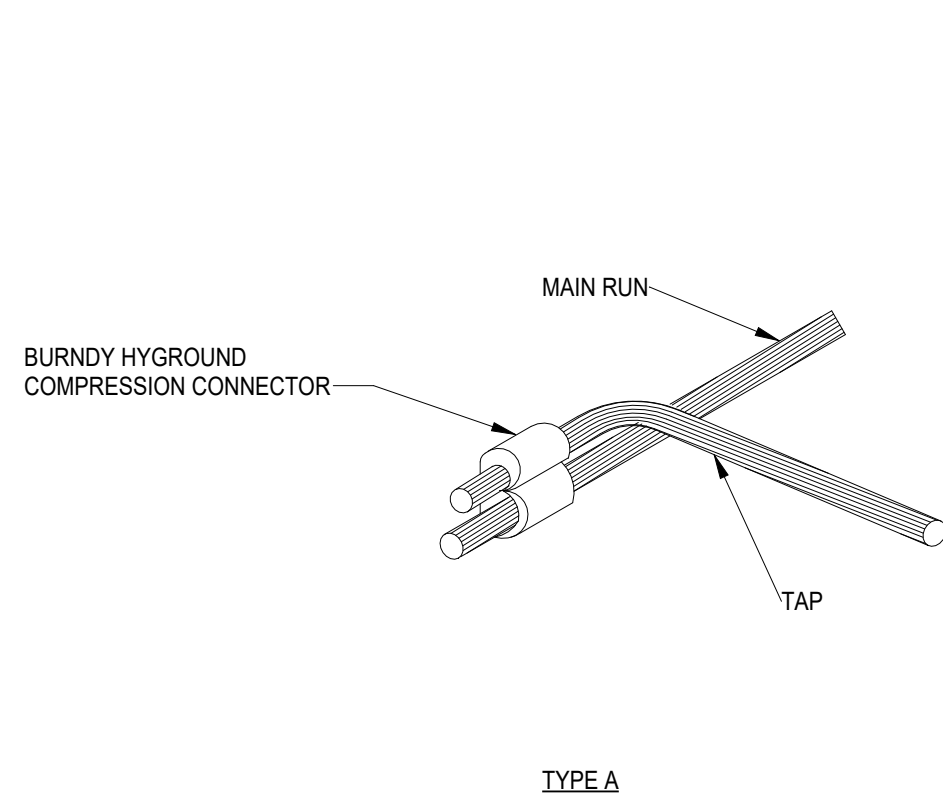
3 EQUIPMENT ANCHOR DETAIL  
 NOT TO SCALE



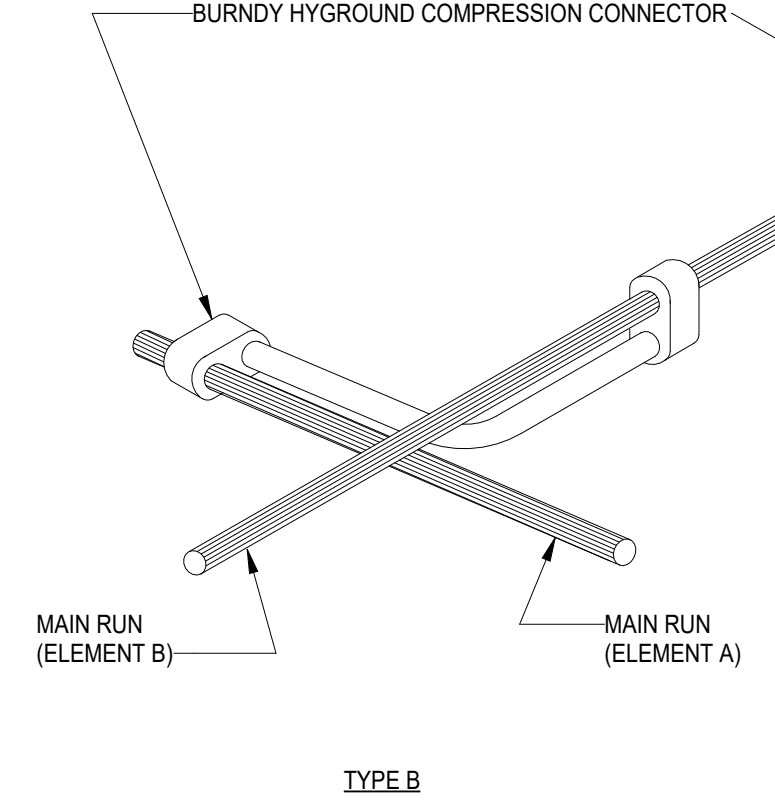
2 DELTA-WYE TRANSFORMER SCHEMATIC  
 NOT TO SCALE



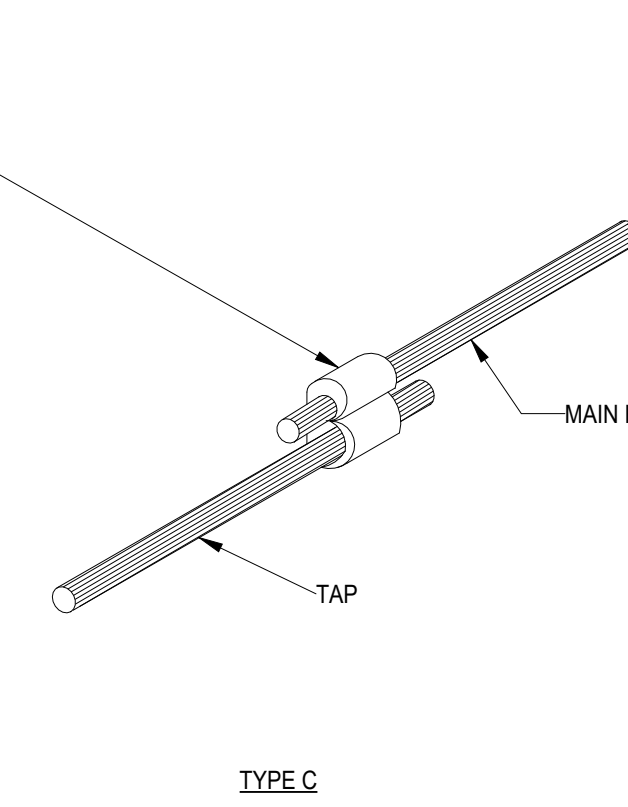
1 CONDUIT PENETRATION DETAIL - EXTERIOR WALL  
 NOT TO SCALE



TYPE A

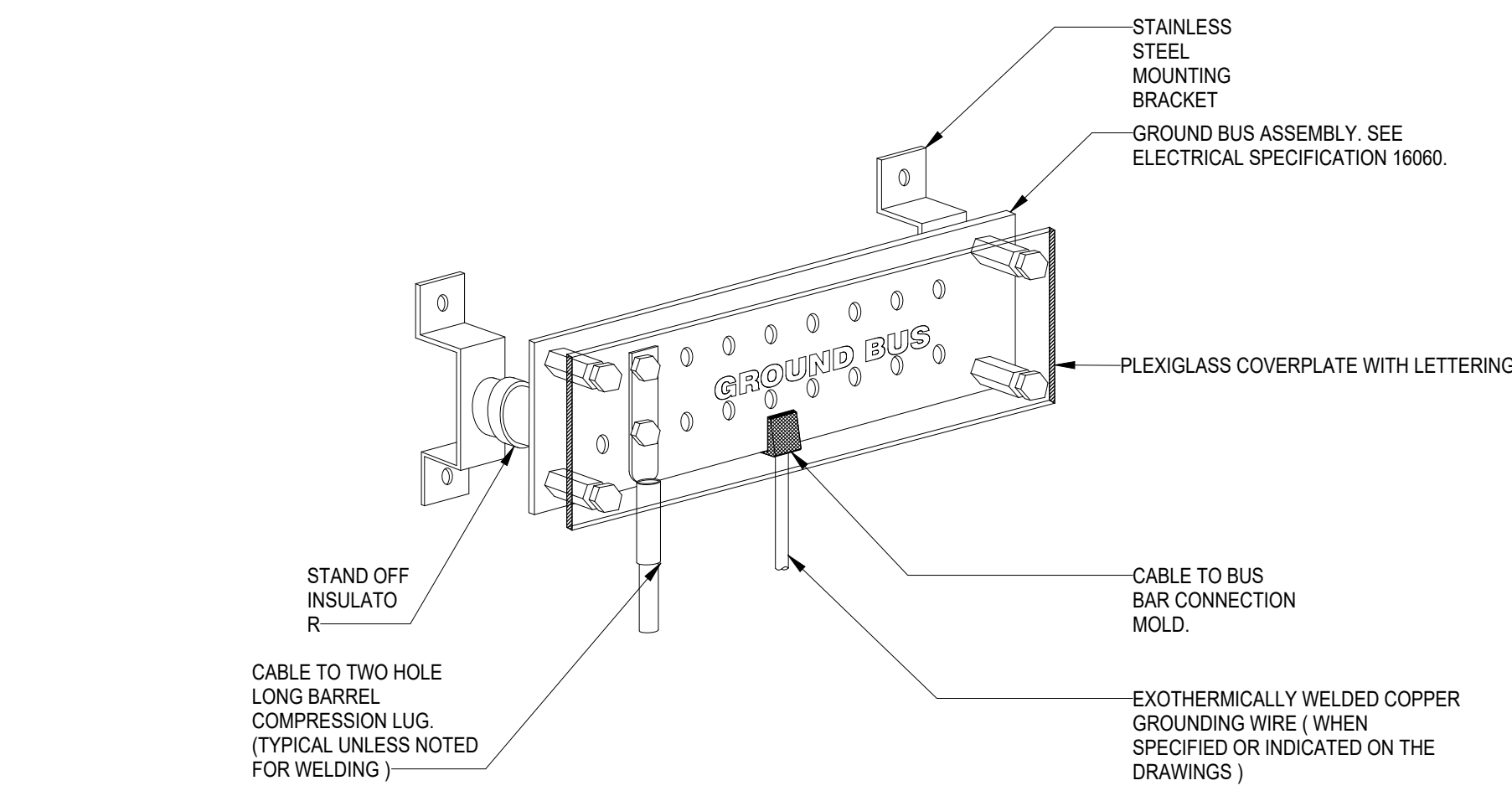


TYPE B

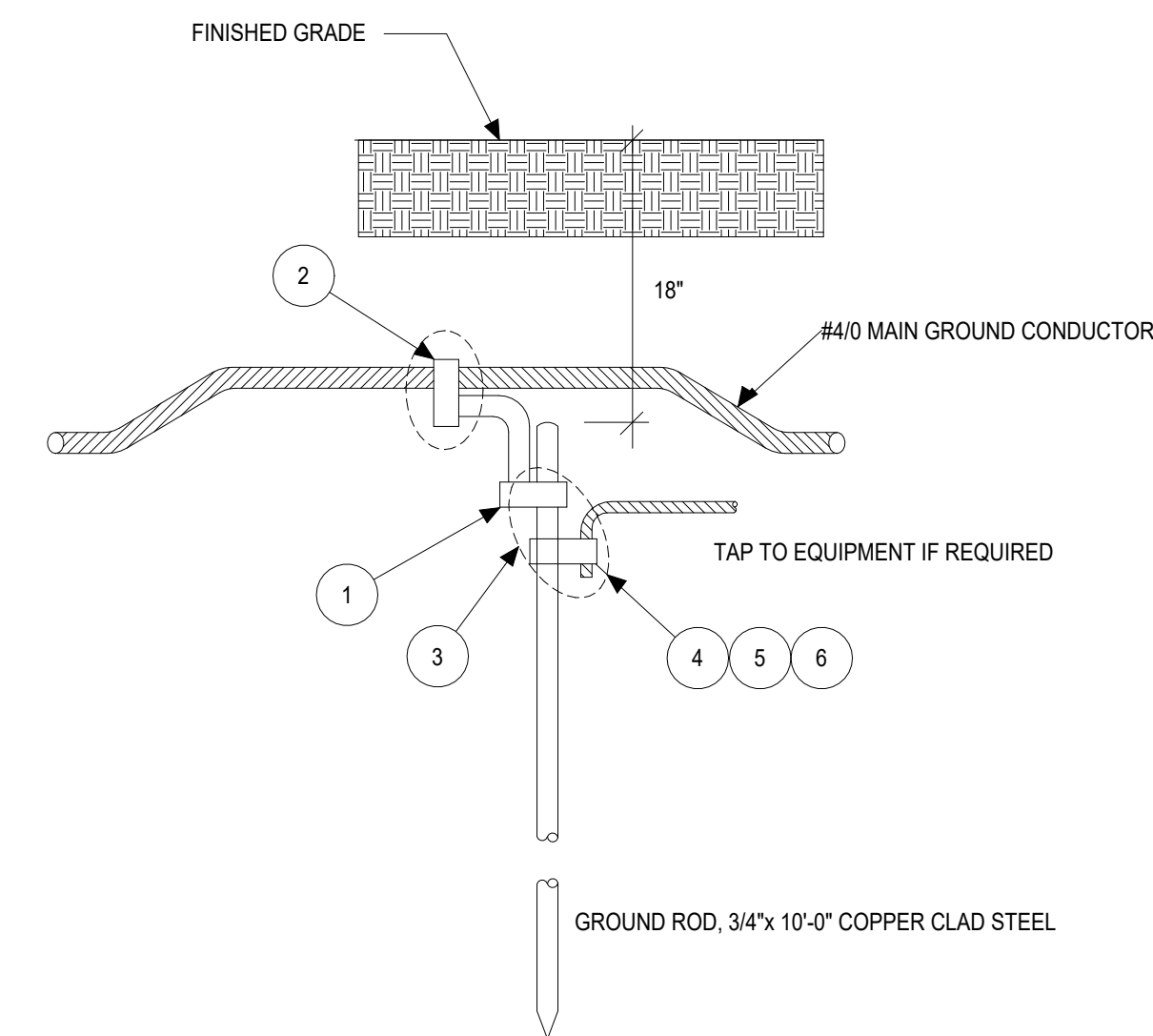


TYPE C

8 GROUNDING COMPRESSION CONNECTIONS  
 NOT TO SCALE



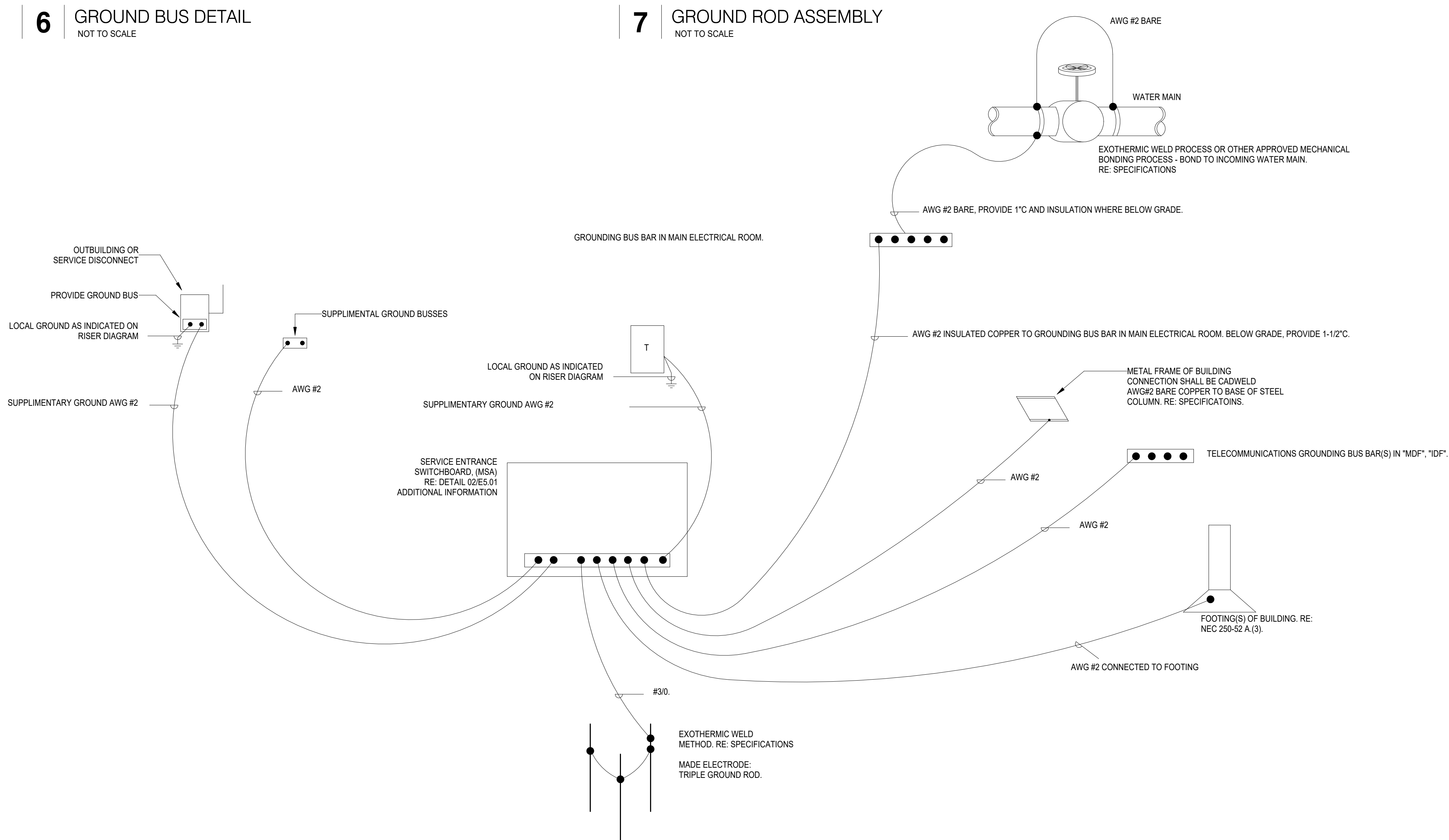
6 GROUND BUS DETAIL  
 NOT TO SCALE



7 GROUND ROD ASSEMBLY  
 NOT TO SCALE

**KEYED NOTES:**

- 1 REQUIRES BURNDY750 PRESS WITH U99 FOR INSTALLATION.
- 2 CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4\"/>



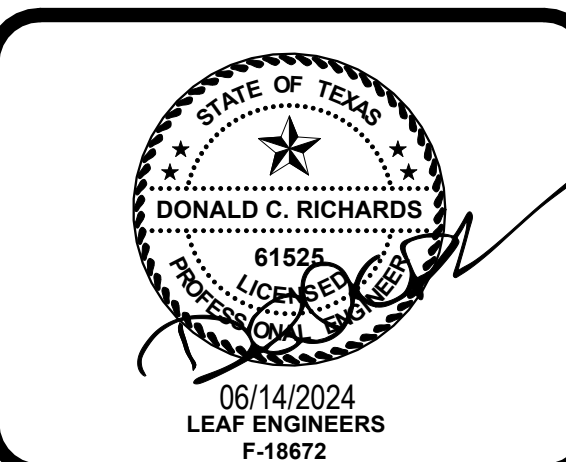
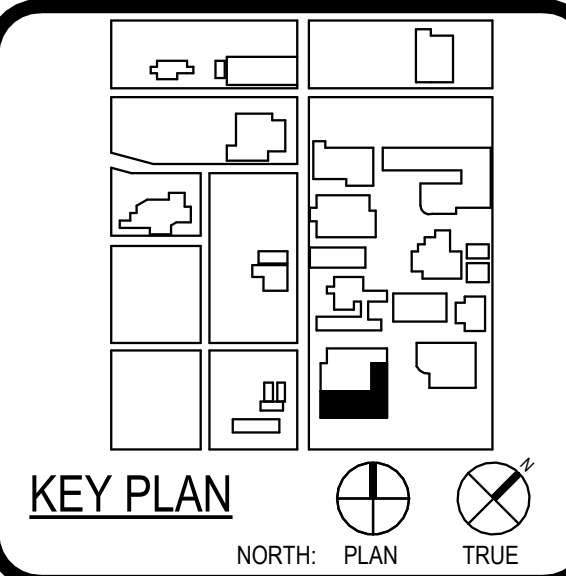
5 ELECTRICAL GROUNDING REQUIREMENTS  
 NOT TO SCALE

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TX Firm BR 1608	
ASSOCIATE ARCHITECT	BAA ARCHITECTS
1301 BROADWAY	
DENVER	
LANDSCAPE	
BURLINGAME GROUP	
1311 44th STREET	
EMERYVILLE, OHIO 44025	
LUNY & HARRIS ENGINEERING	
10100 W. 13TH AVE.	
DENVER, CO 80202	
M&E	
PROFESSIONALS	
MEASUREMENTS	
1301 BROADWAY	
DENVER	
720-848-9880	



**WFAC Black Box Addition PKG 1**

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

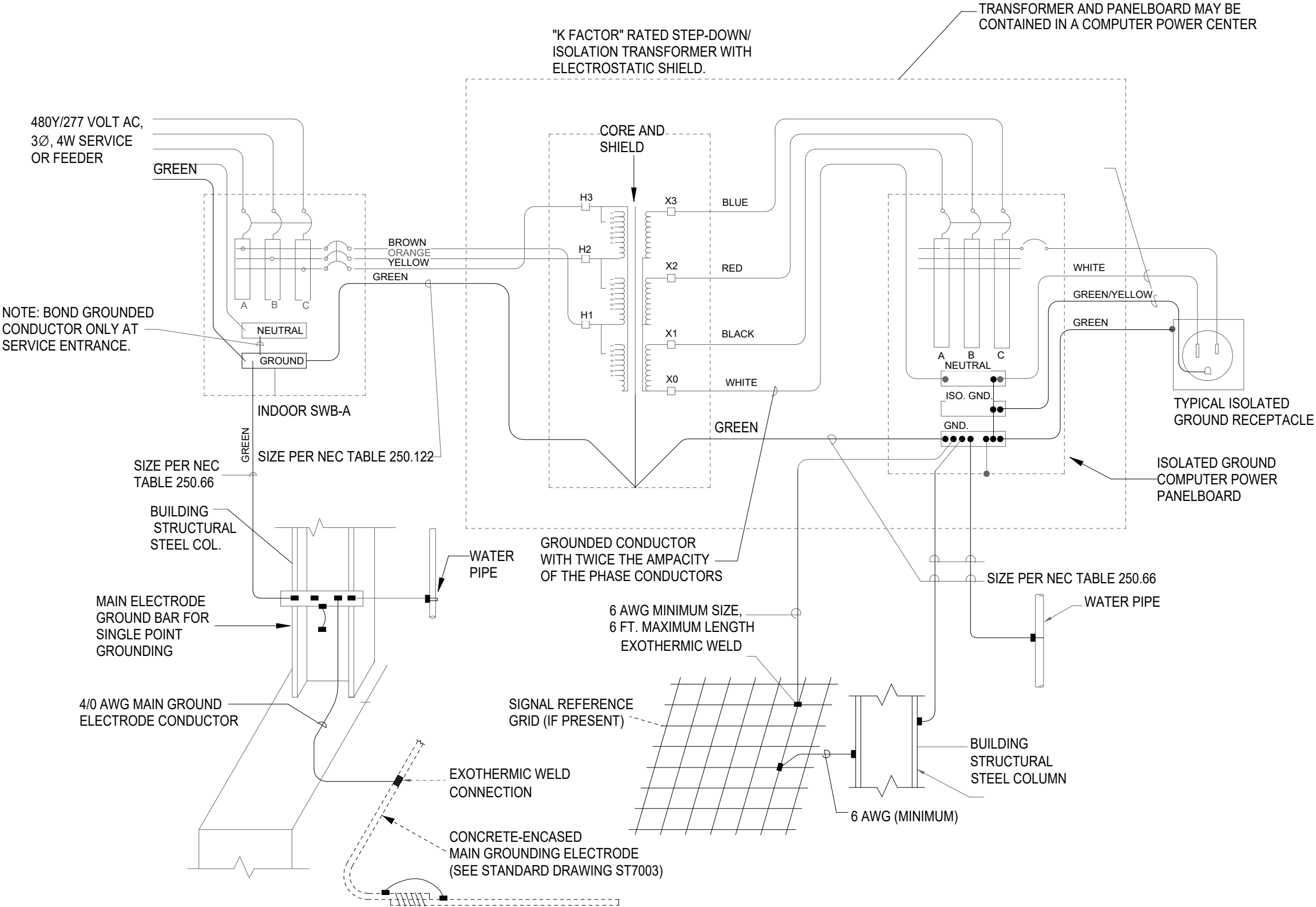


CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE 06/14/2024	230462	
DRAWING HISTORY		
No.	Description	Date

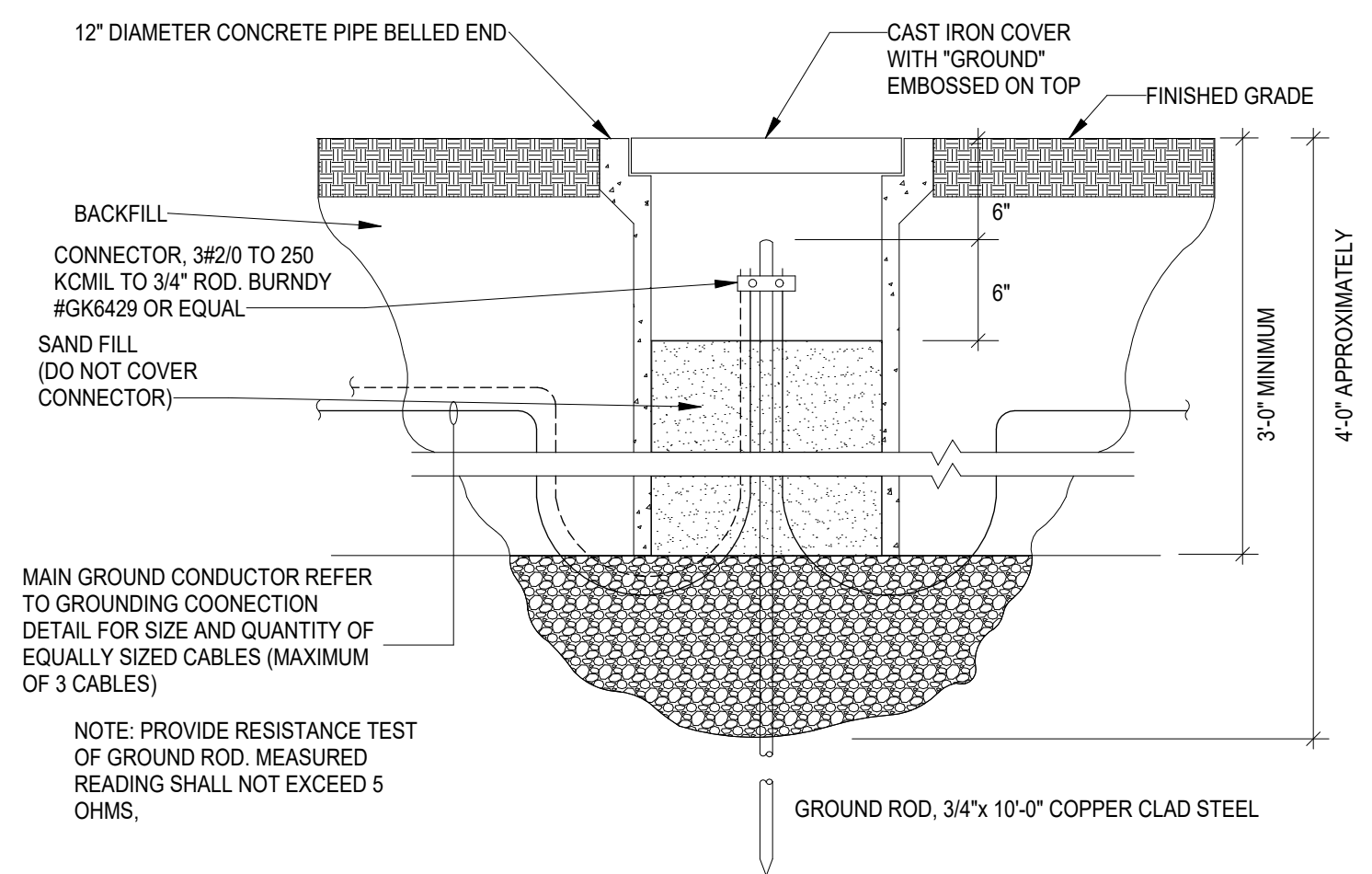
**ISSUE FOR CONSTRUCTION**  
 BUILDING NUMBER 1



**2 ISOLATED GROUND DETAIL**  
NOT TO SCALE



**3 GROUND WELL ASSEMBLY**  
NOT TO SCALE



**GENERAL NOTES**

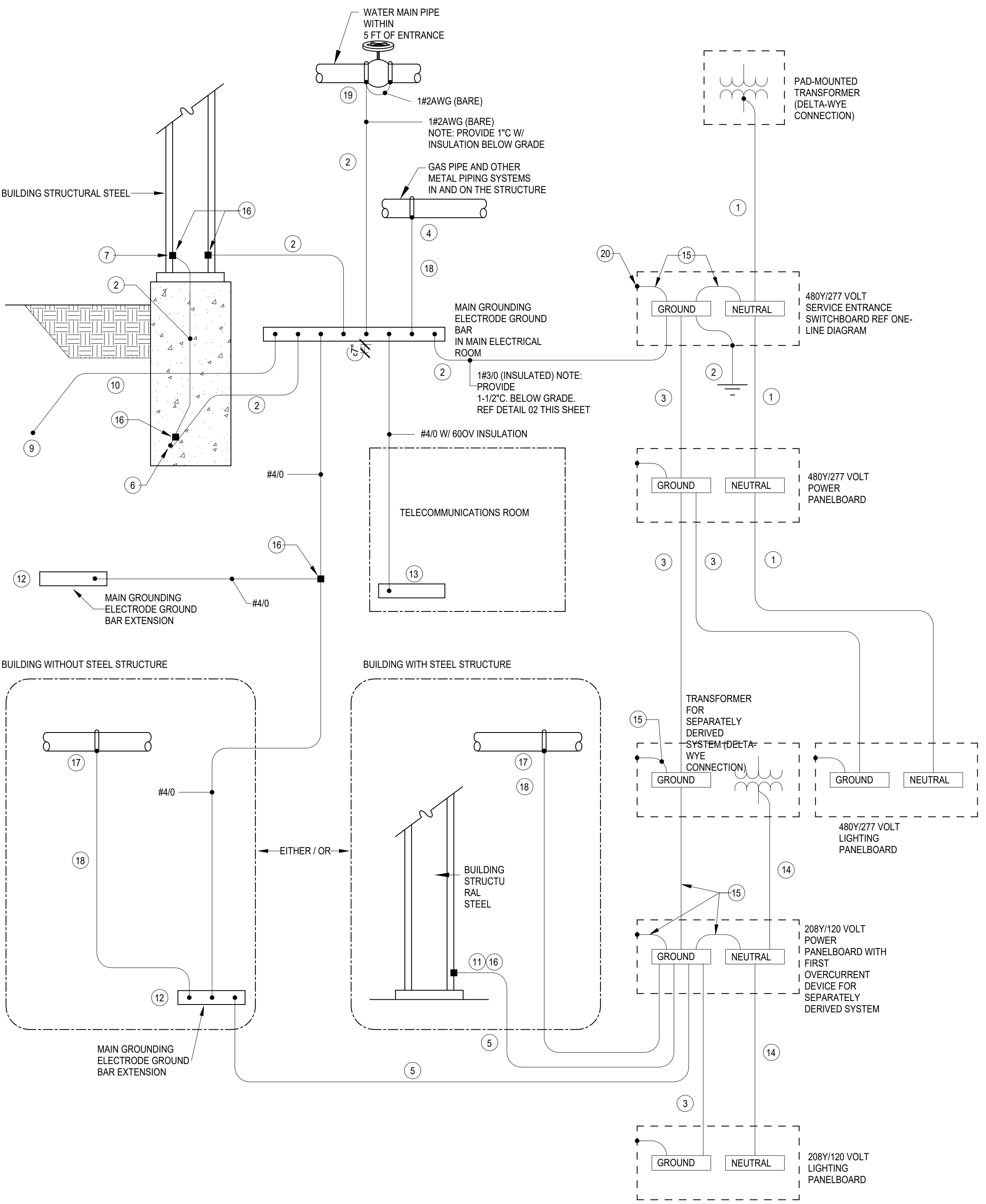
- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON 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.
- 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.
- BOND HOT AND COLD WATER PIPING SYSTEMS.

**KEYED NOTES**

- 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.
- 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.
- INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
- INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- 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)
- BOND PERIMETER STRUCTURAL STEEL COLUMNS TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE CANNULD CONNECTION TO ATTACH GROUNDING ELECTRODE CONDUCTOR TO BASE OF STEEL COLUMN. REFER SPEC 26 05 26.
- 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.
- LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 3/0 AWG COPPER (IF LIGHTING PROTECTION SYSTEM IS SPECIFIED IN PROJECT, RE: SECTION 26 41 00).
- 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 4/0 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.
- 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'.
- 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.
- INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE 'MAIN GROUNDING ELECTRODE GROUND BAR' USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
- 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.
- INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER - PROOF HARDWARE OR INSTALL EXOTHERMIC WELD. REFER SPEC 26 05 26.
- BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
- INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.
- BOND TO INCOMING WATER MAIN USING EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 26 05 26.
- TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 26 05 26, UNLESS NOTED OTHERWISE.

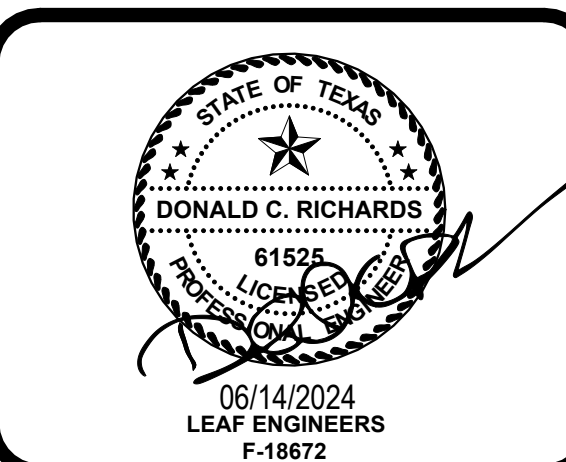
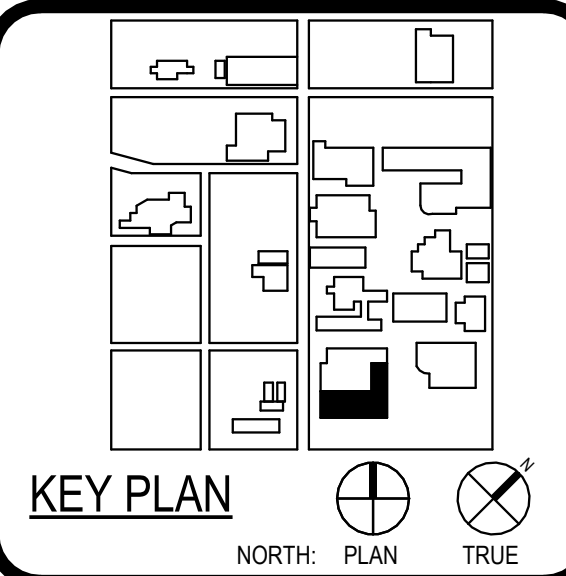
**1 GROUNDING CONNECTION DETAIL**  
SCALE: NOT TO SCALE



**ARCHITECT** SAN ANTONIO PBK Architects, Inc.  
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 210-829-9578 F  
 TX Firm BR 1608



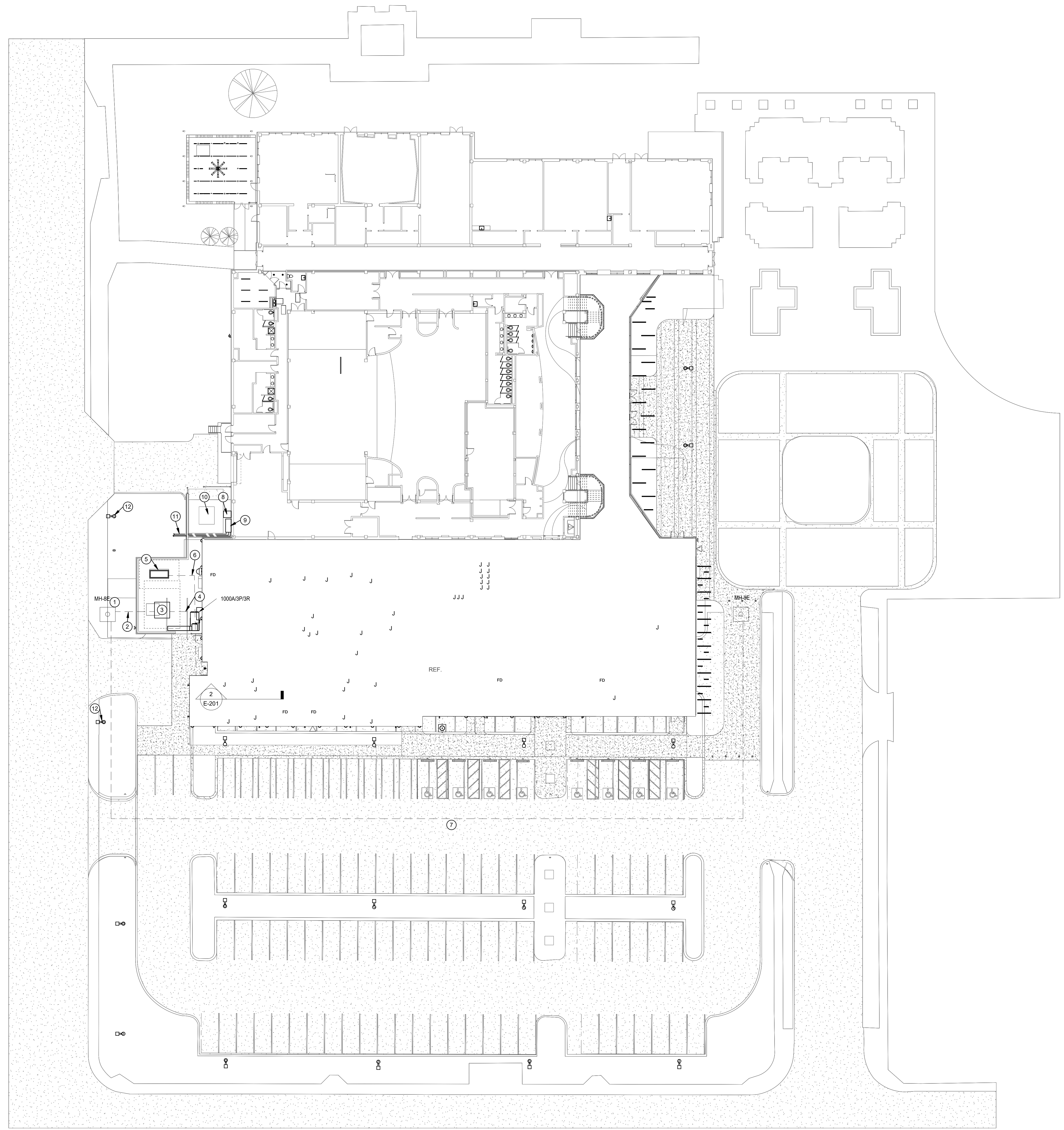
**WFAC Black Box Addition PKG 1**  
 1801 Marlin Luther King Dr.,  
 San Antonio, TX 78203  
 ISSUE FOR CONSTRUCTION



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

**ISSUE FOR CONSTRUCTION**  
 BUILDING NUMBER 1

# ISSUE FOR CONSTRUCTION



**SITE PLAN GENERAL NOTES:**

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

**SITE PLAN KEYED NOTES:**

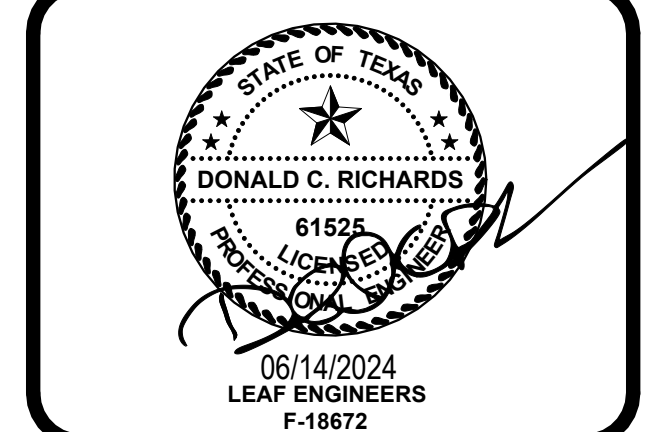
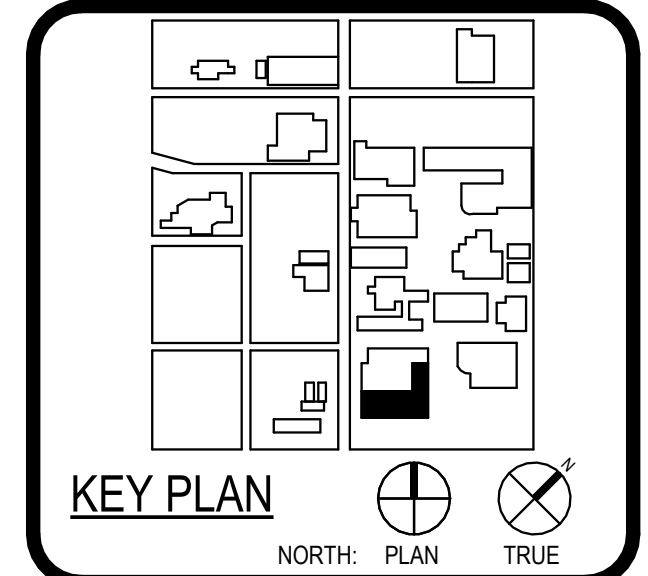
- EXISTING ELECTRICAL MANHOLE.
- NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- NEW 480277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE (1) 1 1/2" CONDUIT FOR POWER.
- NEW UNDERGROUND ROUTE FOR SECONDARY TO MAIN SERVICE DISCONNECT. PROVIDE (2) 3" CONDUITS FOR POWER.
- NEW 480277V, 40 KW CUMMINS MODEL NUMBER: C40 N6 FOR FIRE PUMP.
- NEW UNDERGROUND PATHWAY FROM GENERATOR TO 2ND FLOOR ATS IN MEZZAINE.
- REROUTED PATHWAY FOR EXISTING UNDERGROUND DUCKSINK 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.
- RELOCATED CONDENSING UNIT AND ASSOCIATED DISCONNECT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- EXISTING DISTRIBUTION MAIN SERVICE DISCONNECT DP-6 FOR ADJACENT WATSON FINE ARTS BUILDING.
- EXISTING UTILITY TRANSFORMER FOR WATSON FINE ARTS.
- PROPOSED NEW PATHWAY FOR RELOCATED EXISTING CONDUITS FROM DP-6. CONTRACTOR SHALL VERIFY WHERE CONDUITS ARE FED TO.
- 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 TAGS.



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LANDSCAPE ARCHITECT	LANDSCAPE 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-760-1000
MECHANICAL ENGINEER	LINBY & FRANK ENGINEERING 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-760-1000
ELECTRICAL ENGINEER	MEAF PROFESSIONALS 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-760-1000



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



CLIENT	Alamo Colleges	
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ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

SITE POWER PLAN

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

PROJECT GENERAL NOTES

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

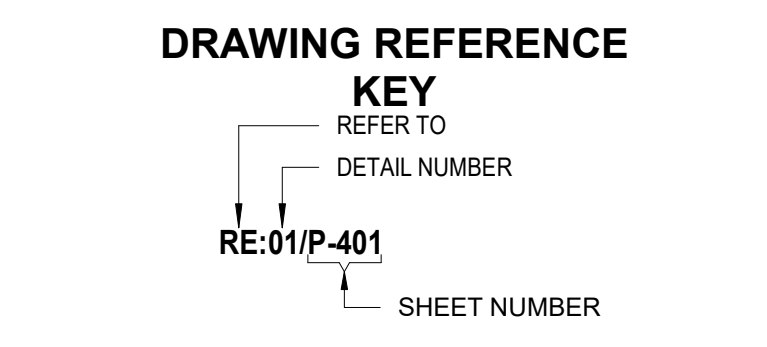
WATER HAMMER ARRESTER SCHEDULE

Table with 3 columns: Pipe Size, Cross Fixture Units, and PDI STD. Lists specifications for 1/2", 3/4", 1", 1-1/4", 1-1/2", and 2" pipe sizes.

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

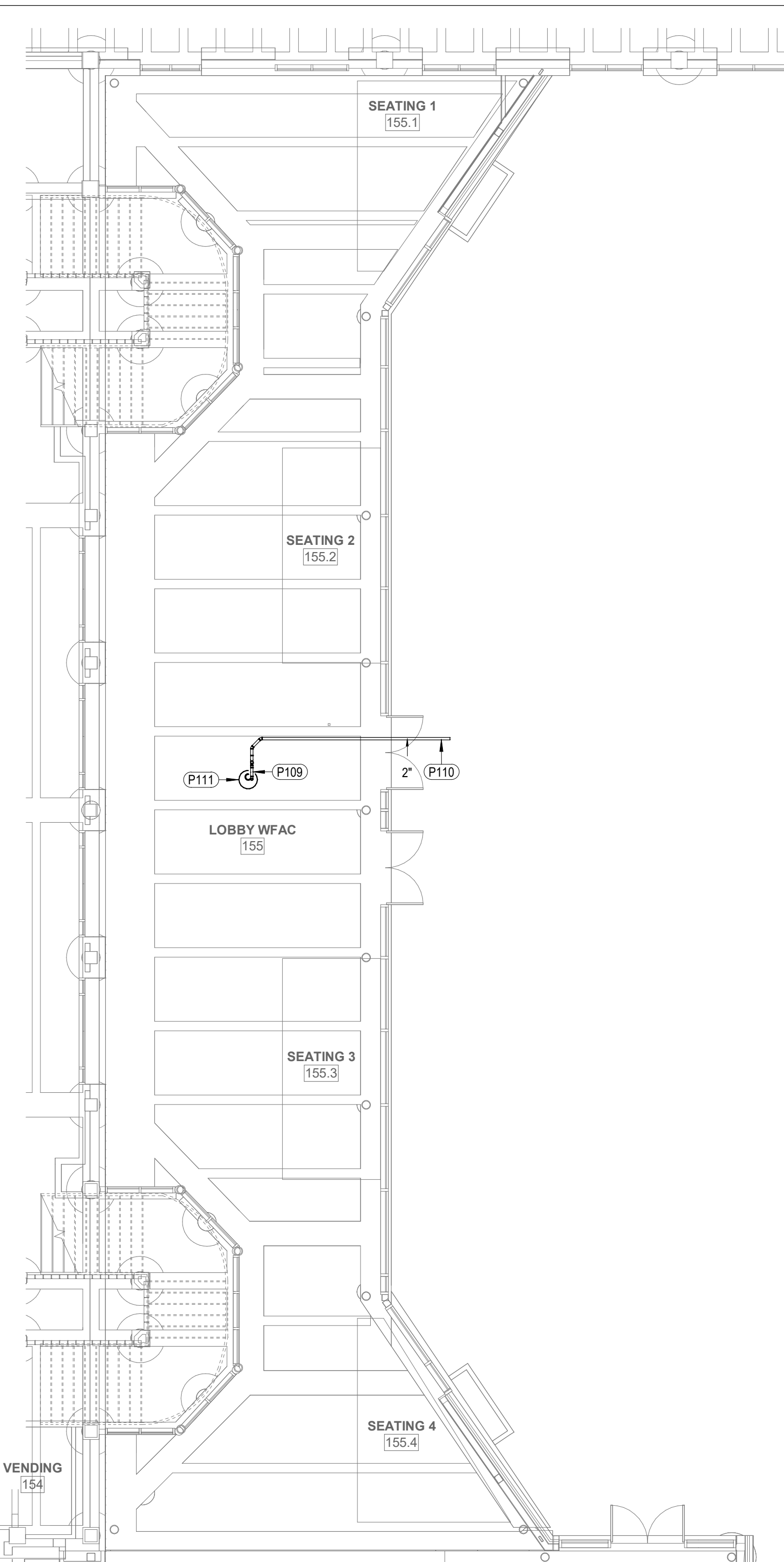
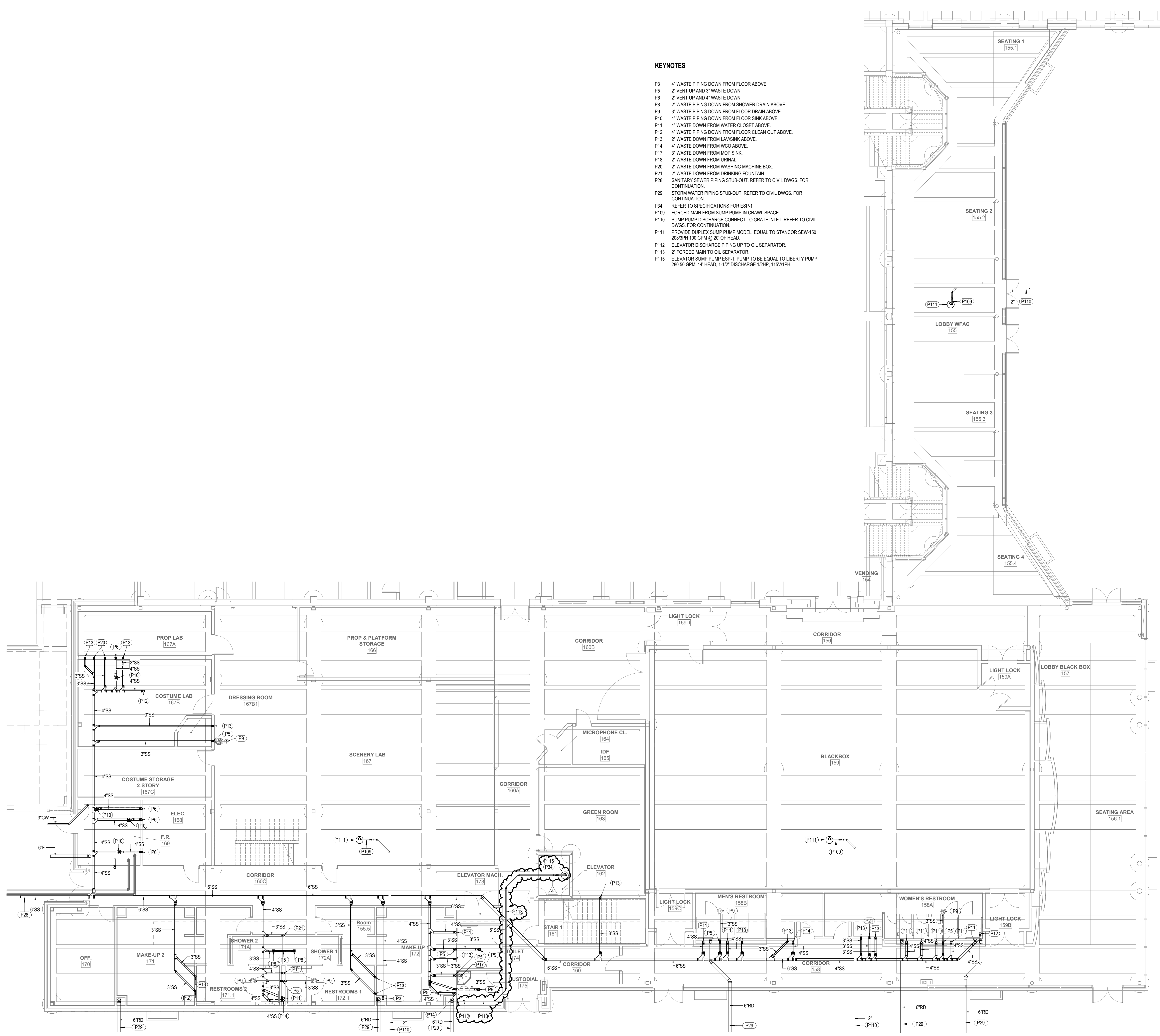
Table with 2 columns: Pipe Size and Minimum Slope. Shows required slopes for 2-1/2" or less, 3" to 6", and 8" or larger pipe sizes.



ISSUE FOR CONSTRUCTION

**KEYNOTES**

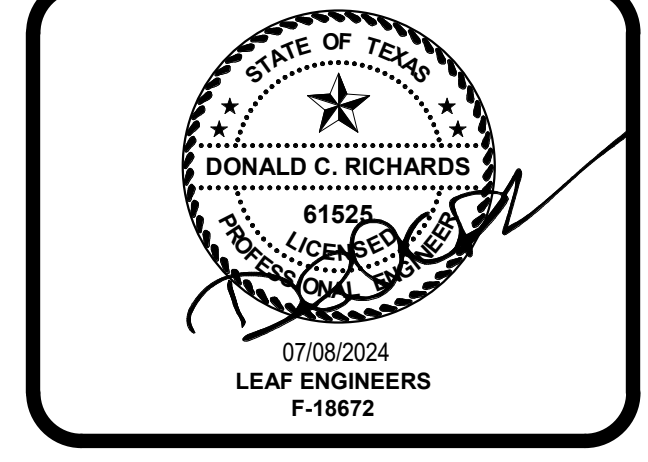
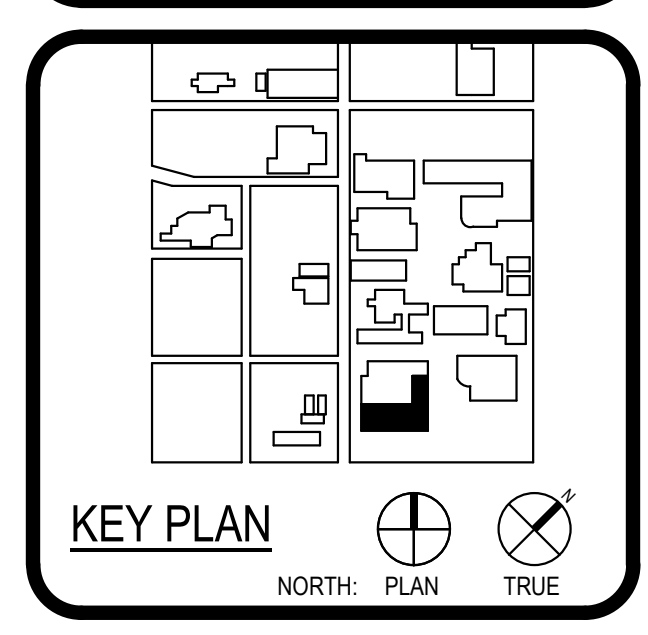
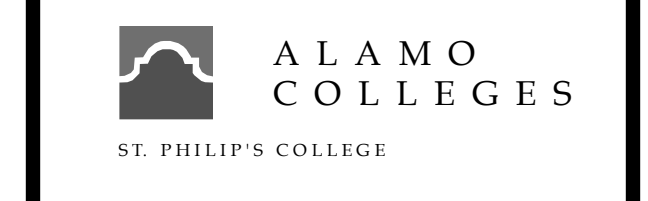
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET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



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 ASSOCIATE ARCHITECT  
 DONALD C. RICHARDS  
 6152  
 07/08/2024  
 LEAF ENGINEERS  
 F-18672



WFAC Black Box Addition PKG 1



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

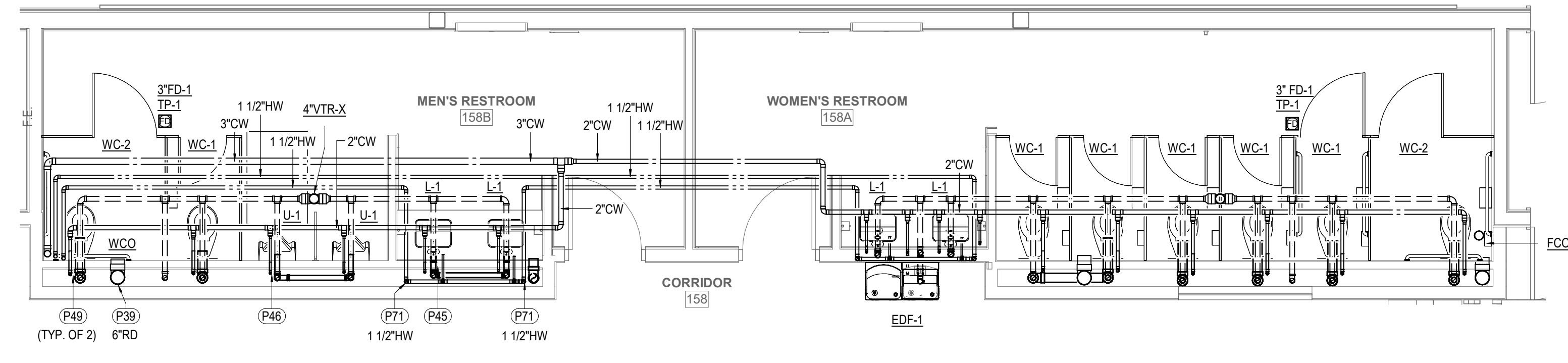
90%CD - IFR  
 BUILDING NUMBER 1

**CRAWLSPACE PLUMBING PLAN**

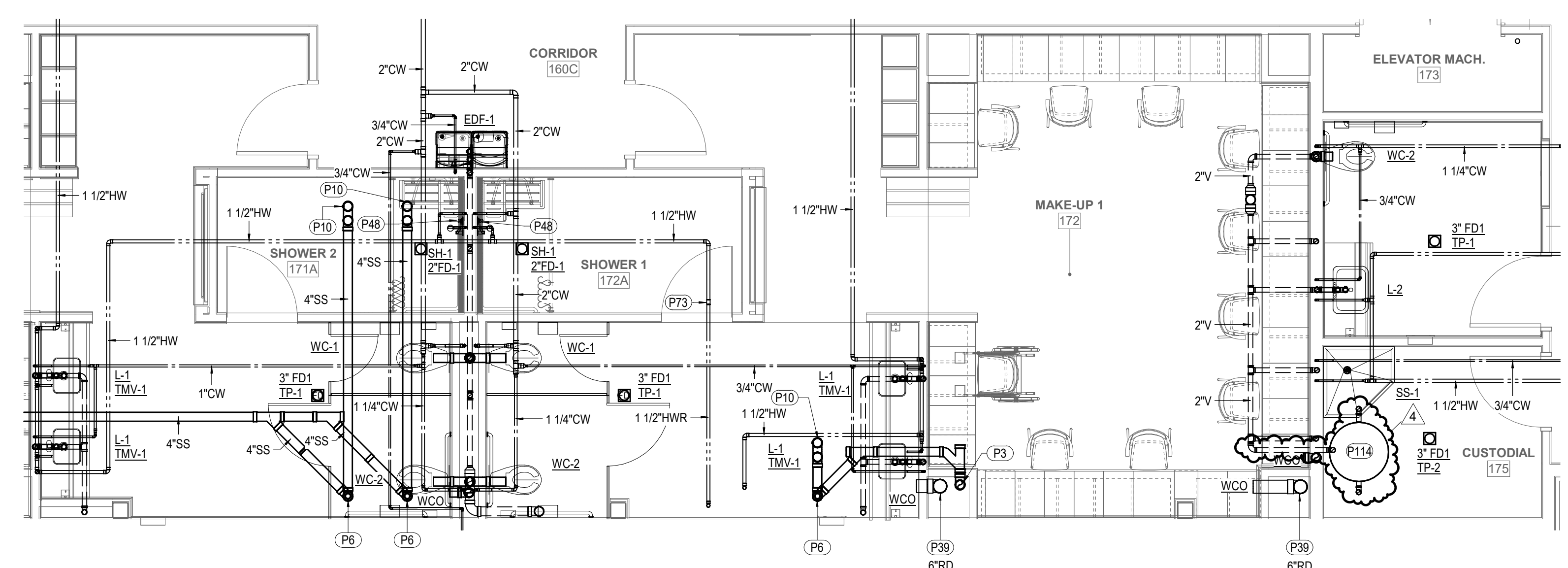
**PU-101-A**

File Path: Autocad Docs\\Memo CS\_230462\_Al Philip College WBB AddP23 WFAC - Blackbox Addition - A03.rvt

CHECKED BY: Checker  
 DRAWN BY: Author  
 Plot Stamp: 7/8/2024 7:29:33 AM



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



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

**KEYNOTES**

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

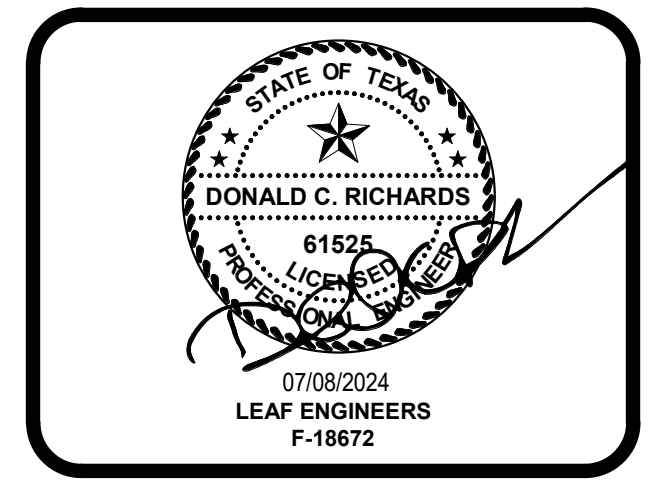
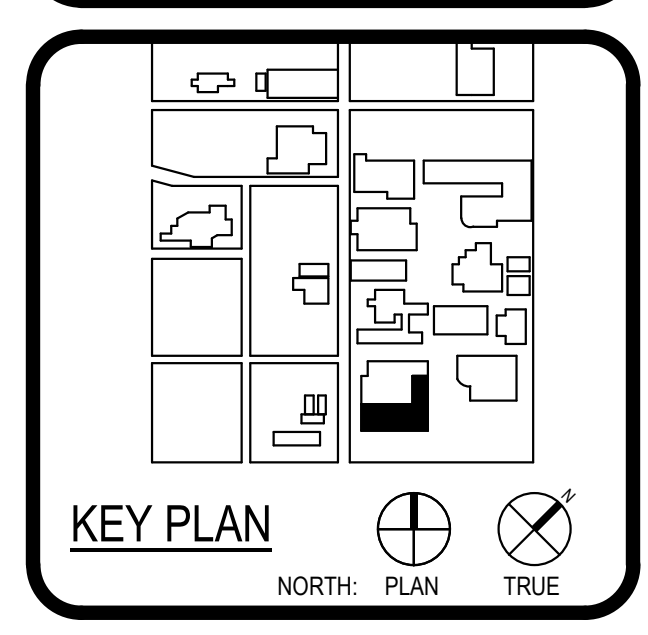
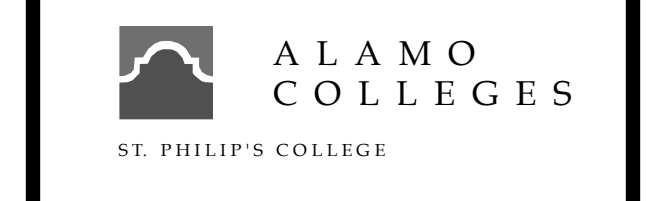


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm SR 1659
ASSOCIATE ARCHITECT	W.A. ARCHITECTS 1710 S. W. 19th St. San Antonio, TX 78224
ENGINEER	LEE 1710 S. W. 19th St. San Antonio, TX 78224
MECHANICAL ENGINEER	LEE 1710 S. W. 19th St. San Antonio, TX 78224
ELECTRICAL ENGINEER	LEE 1710 S. W. 19th St. San Antonio, TX 78224
PLUMBING ENGINEER	LEE 1710 S. W. 19th St. San Antonio, TX 78224
MECHANICAL PROFESSIONALS	LEE 1710 S. W. 19th St. San Antonio, TX 78224
ELECTRICAL PROFESSIONALS	LEE 1710 S. W. 19th St. San Antonio, TX 78224
PLUMBING PROFESSIONALS	LEE 1710 S. W. 19th St. San Antonio, TX 78224



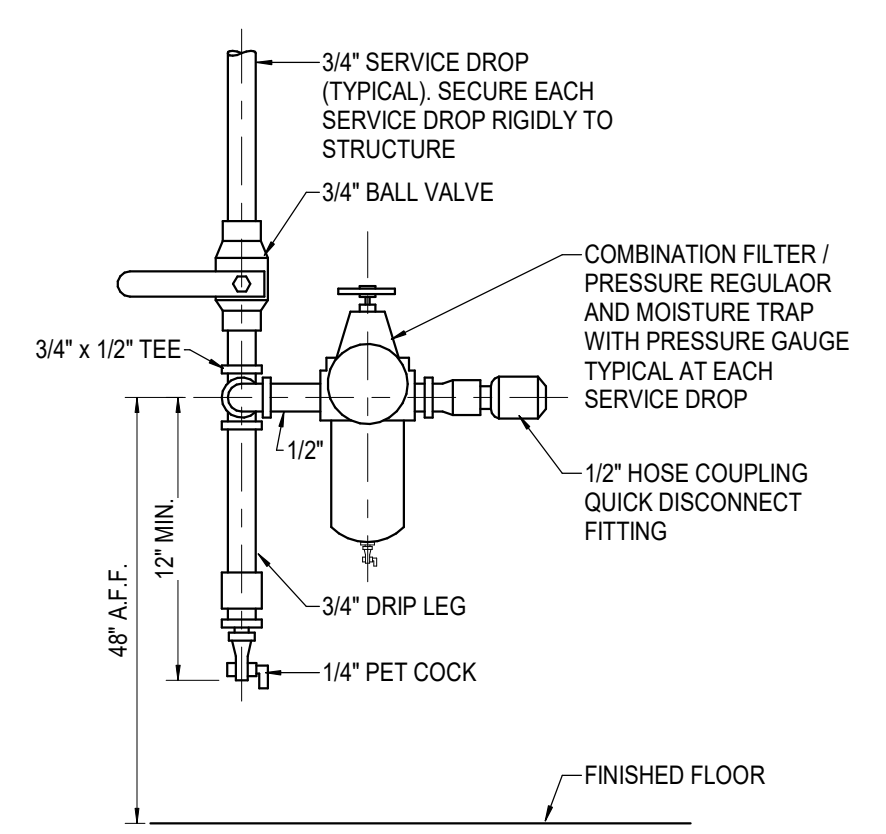
WFAC Black Box Addition PKG 1

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

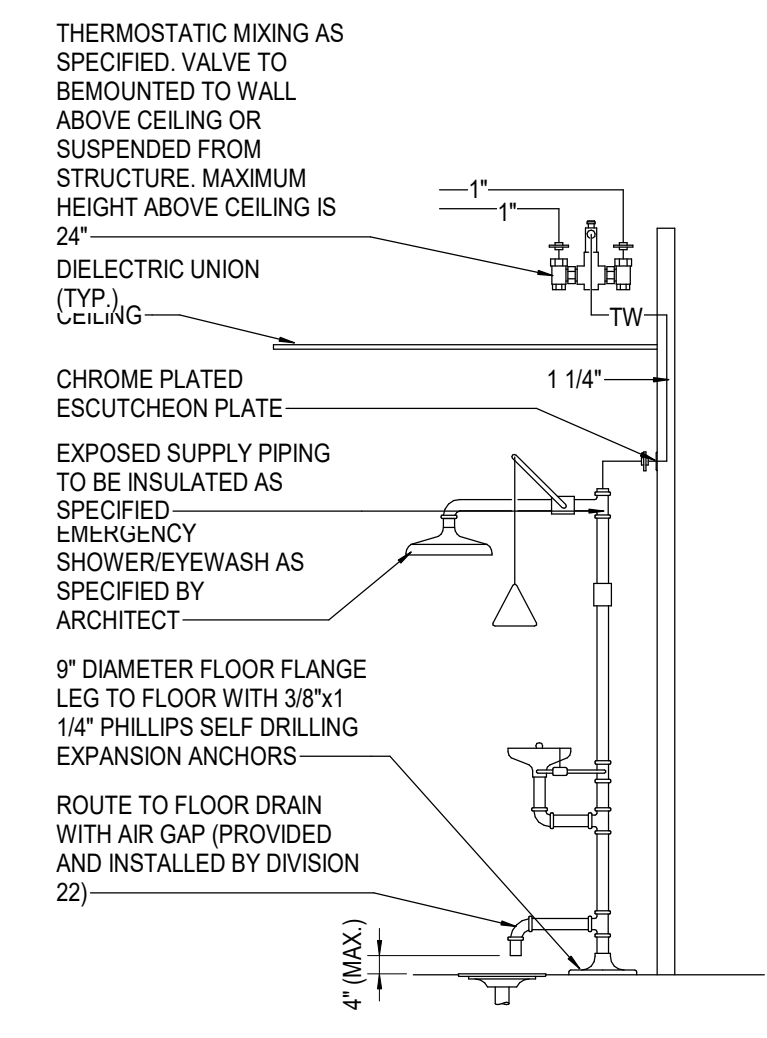


CLIENT		Alamo Colleges
DATE	07/08/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date
4	CITY COMMENTS	07/08/2024
90%CD - IFR		
BUILDING NUMBER	1	

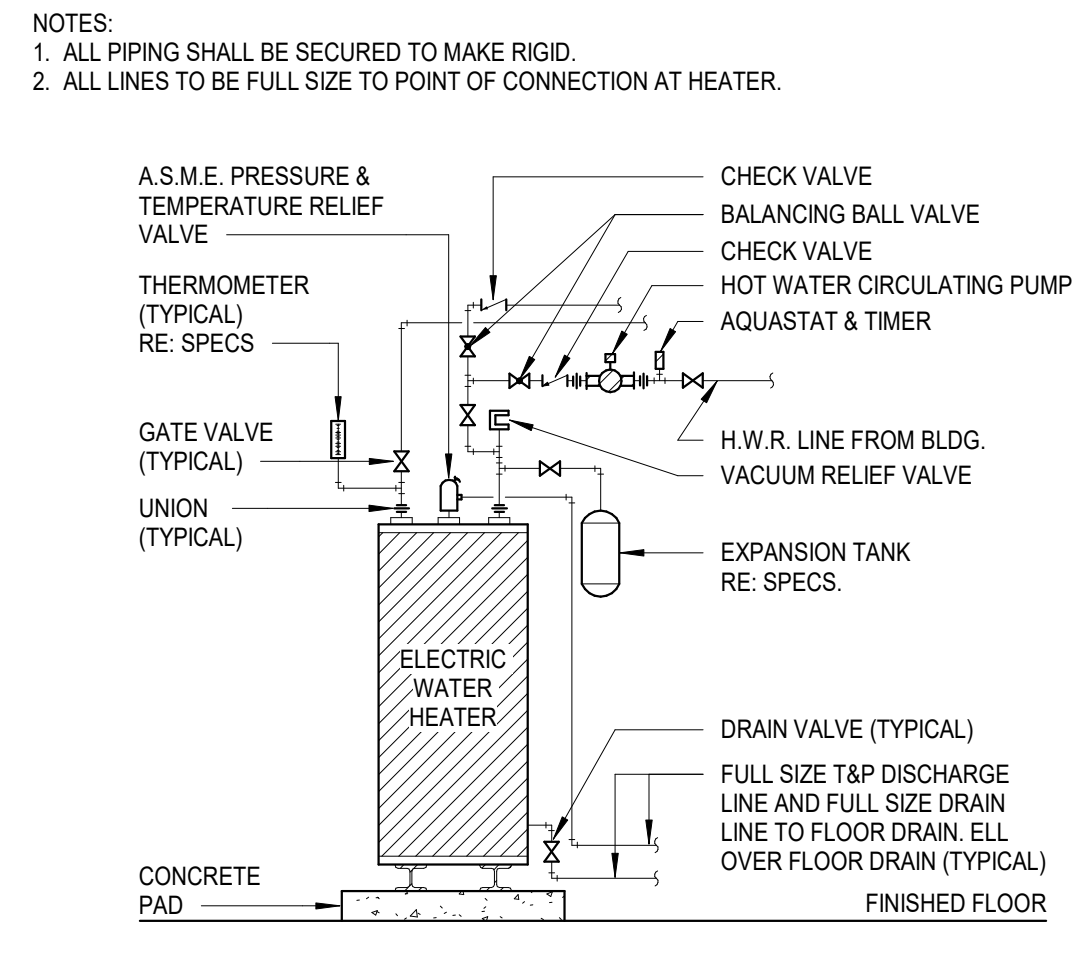
**PLUMBING ENLARGED PLAN**



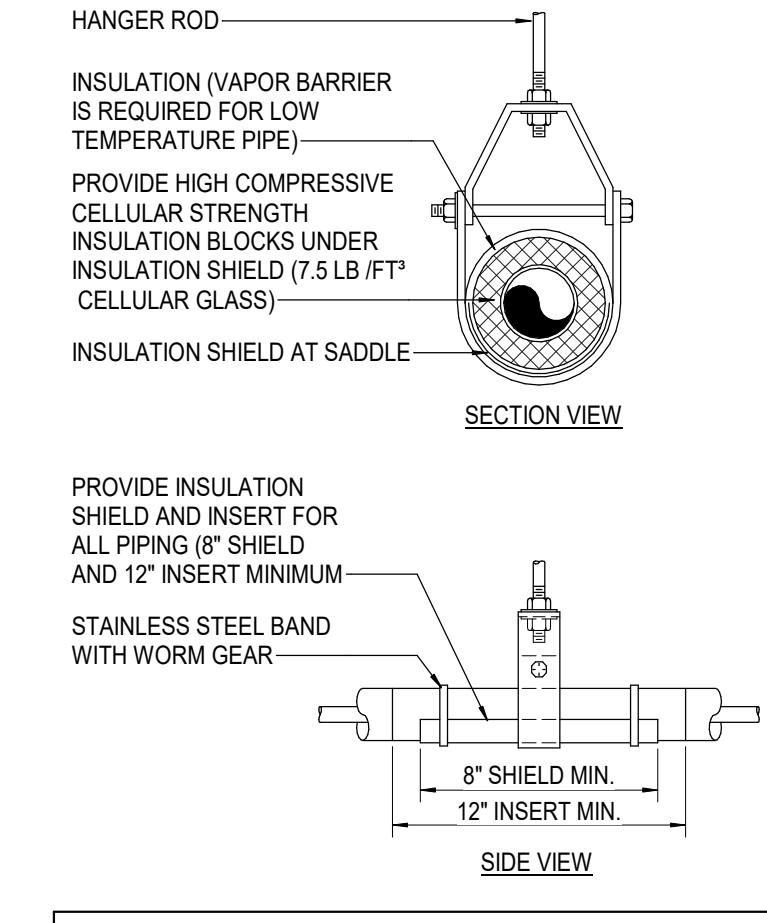
**10 COMPRESSED AIR OUTLET DETAIL**  
SCALE: NOT TO SCALE



**7 EMERGENCY SHOWER/EYEWASH DETAIL**  
SCALE: NOT TO SCALE



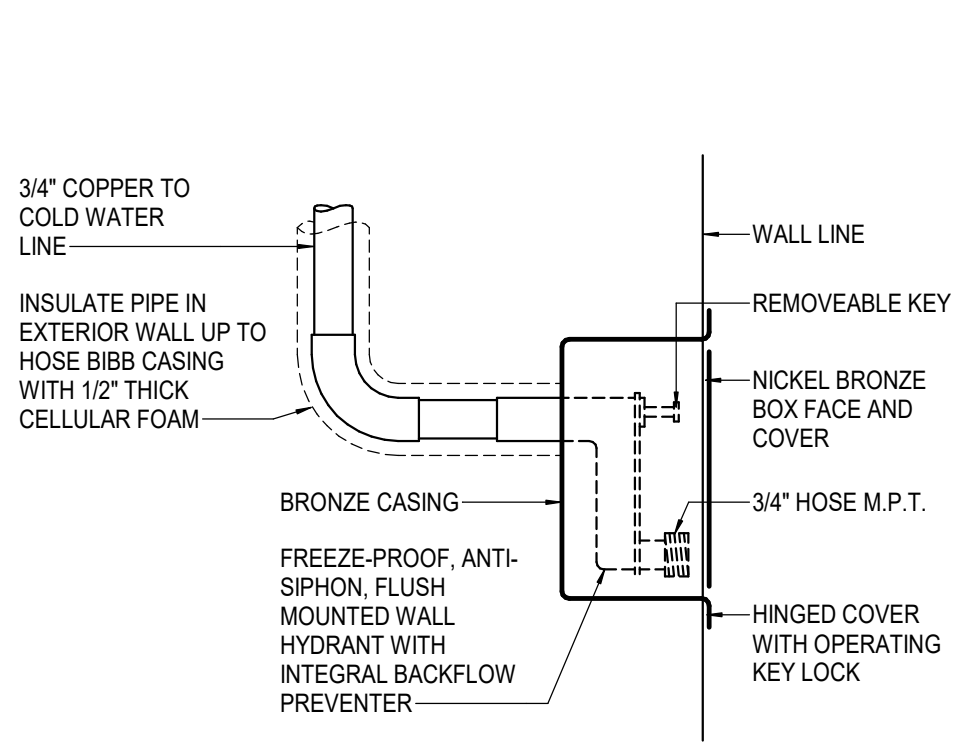
**4 ELECTRIC WATER HEATER PIPING**  
SCALE: N.T.S.



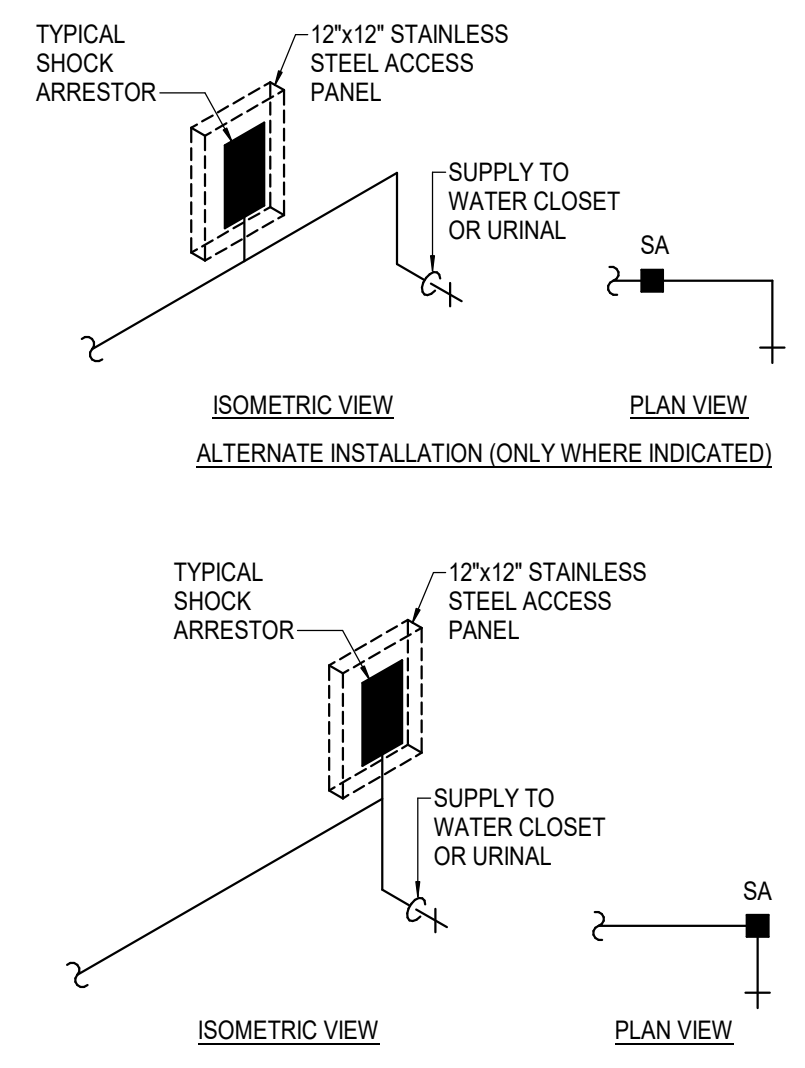
**1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

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

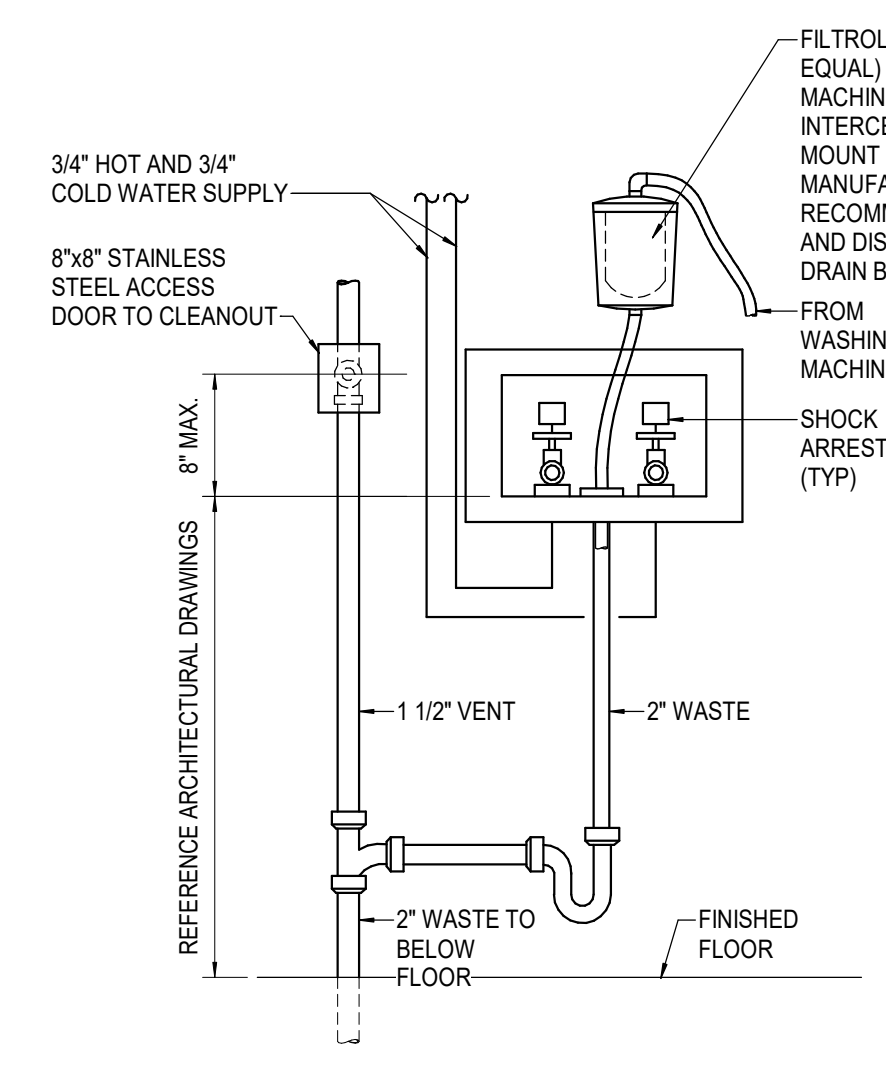
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



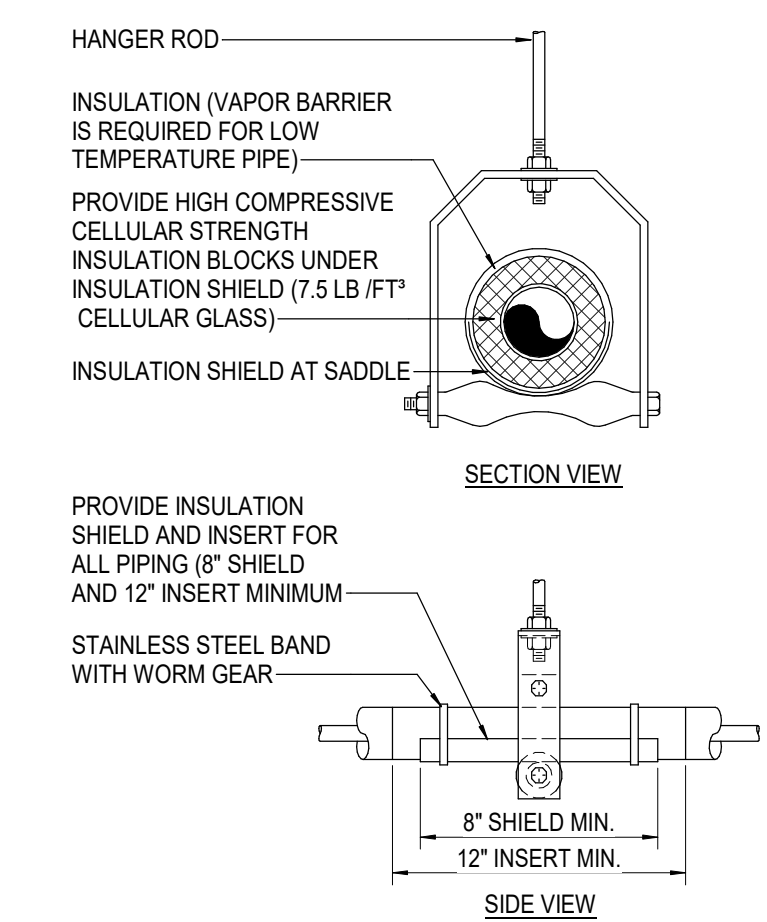
**11 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



**8 SHOCK ARRESTOR DETAIL**  
SCALE: NOT TO SCALE



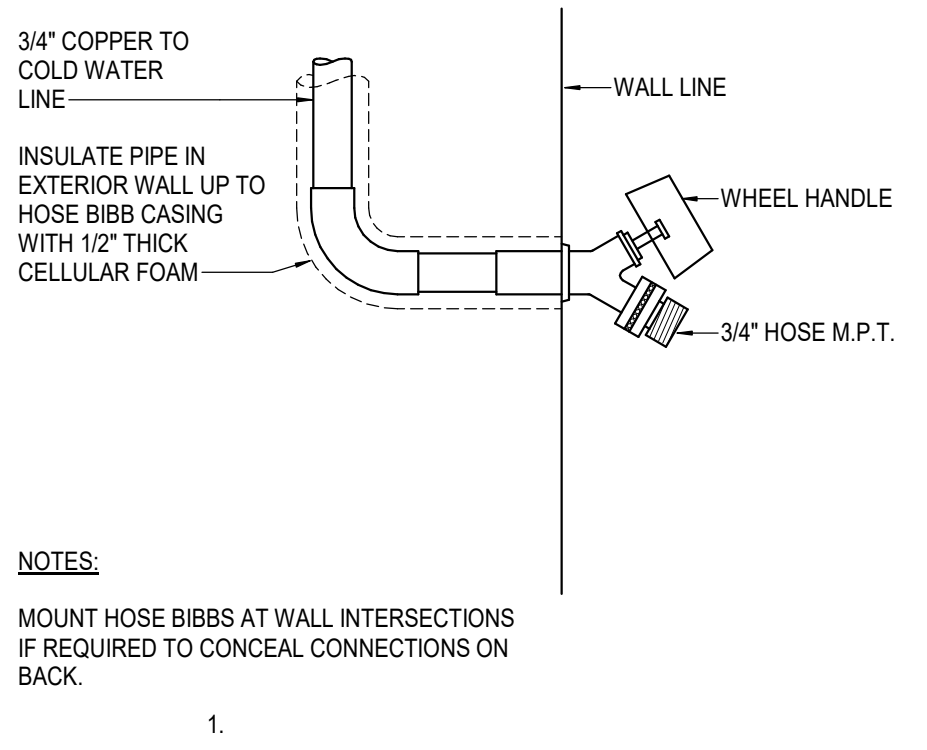
**5 WASHER / DRAIN BOX CONNECTION DETAIL**  
SCALE: NOT TO SCALE



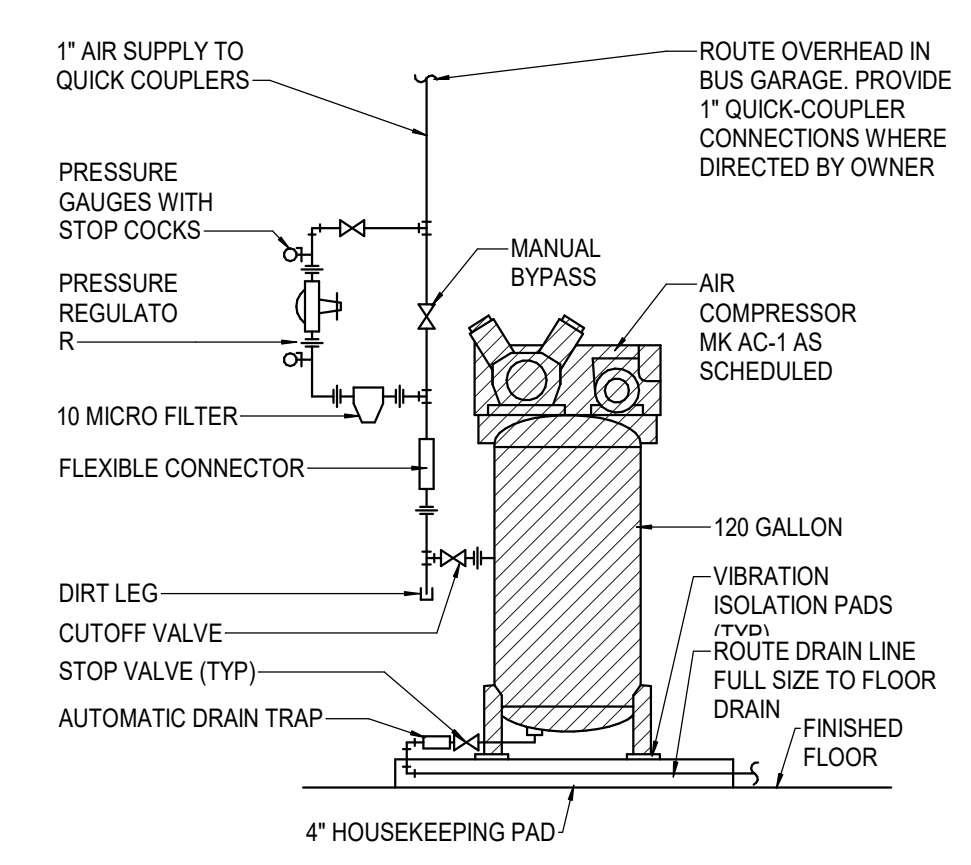
**2 ADJUSTABLE ROLLER PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

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

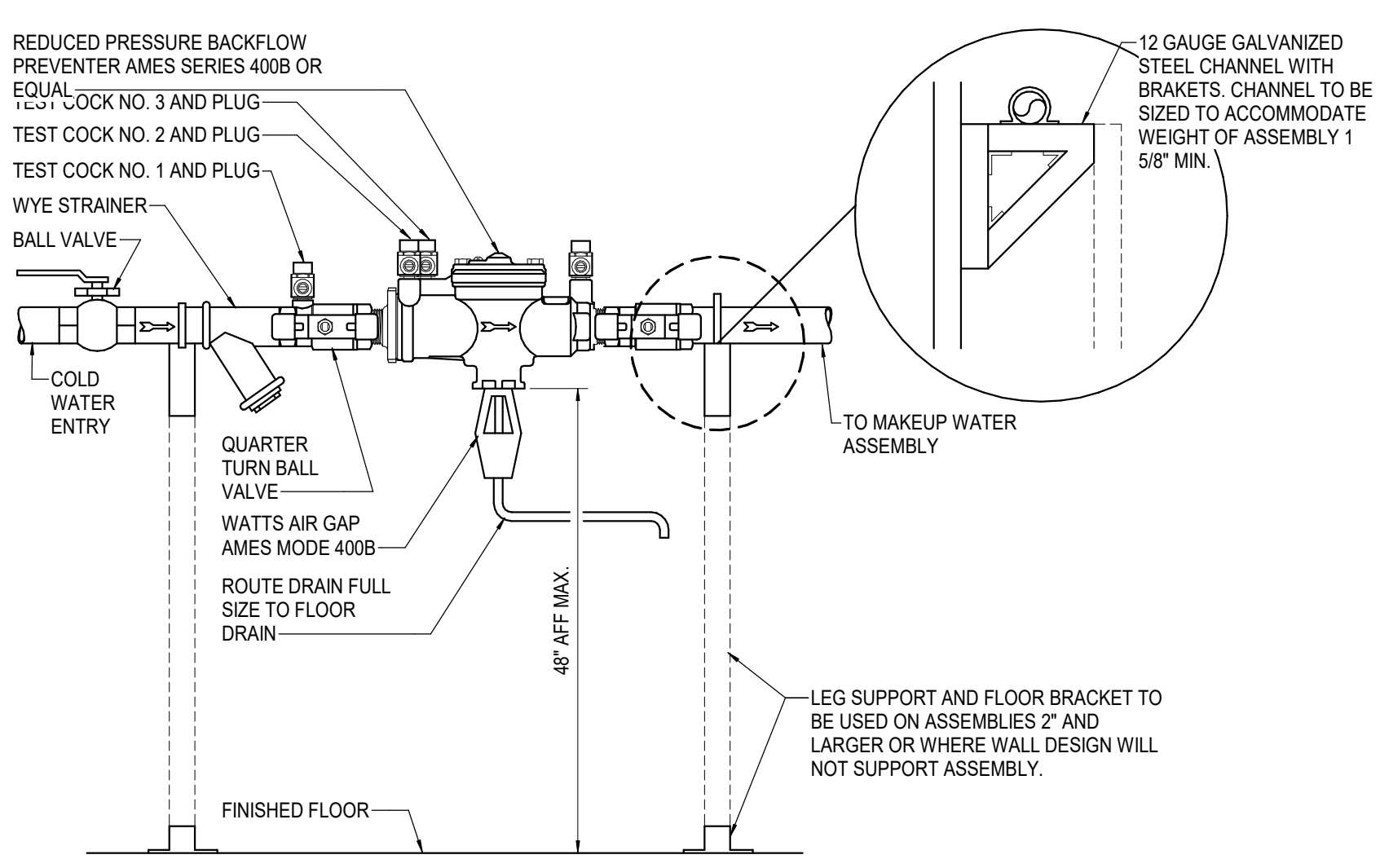
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



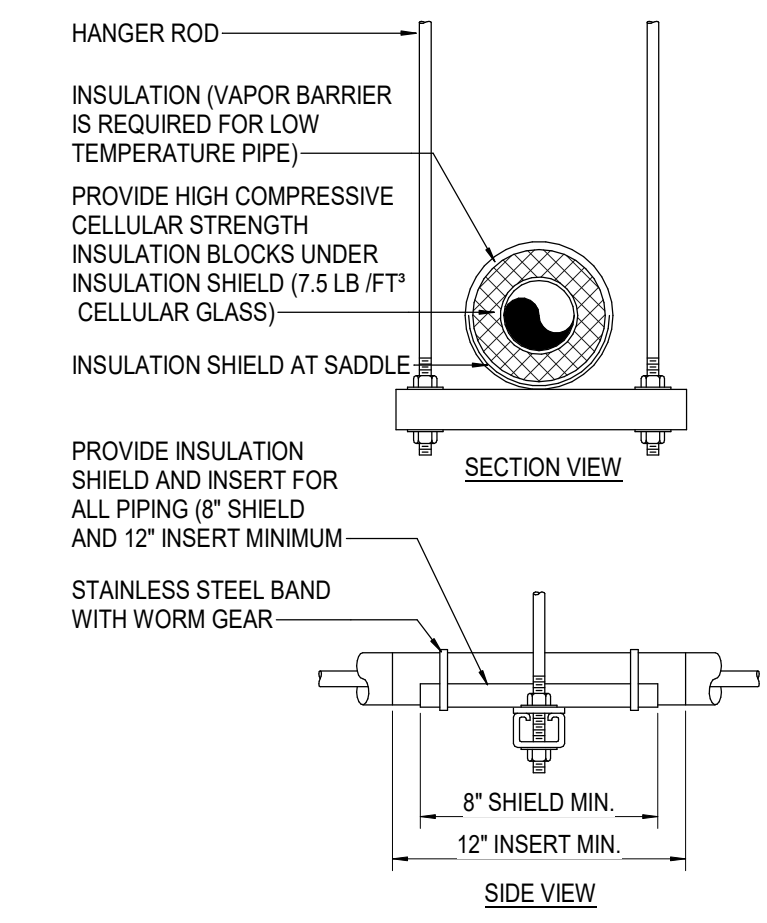
**12 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



**9 AIR COMPRESSOR PIPING DETAIL**  
SCALE: NOT TO SCALE



**6 BACKFLOW PREVENTER MOUNTING DETAIL**  
SCALE: NOT TO SCALE



**3 TRAPEZE PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE

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

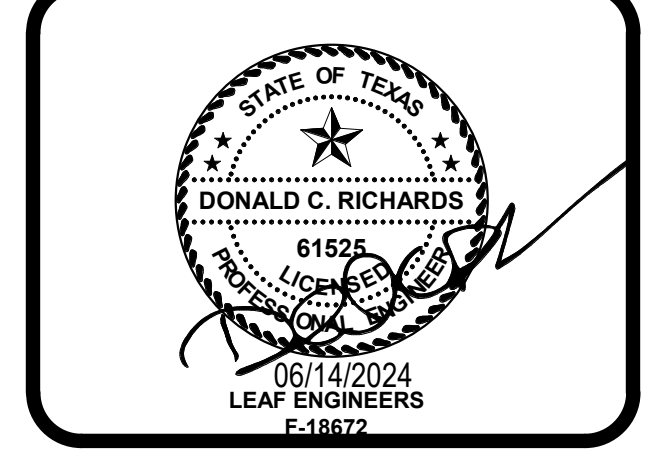
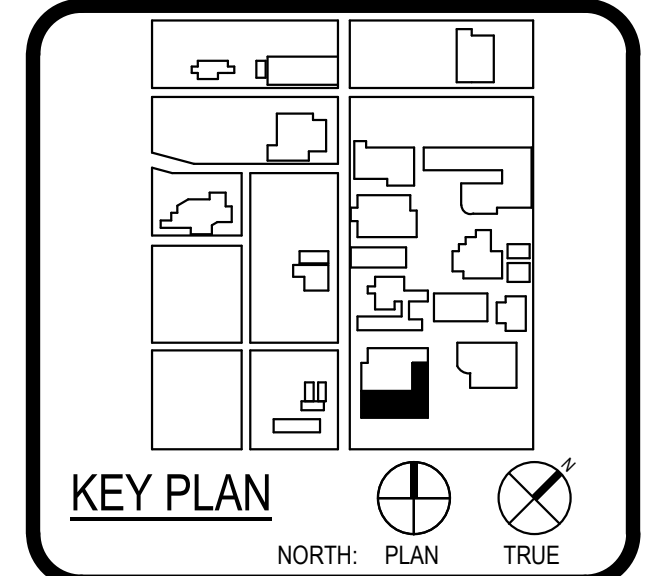
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



ARCHITECT	PBK Architects, Inc.
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TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
1101 S. W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-829-0123 P	
210-829-0578 F	
ASSOCIATE ARCHITECT	LANDSCAPE
1101 S. W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-829-0123 P	
210-829-0578 F	
ASSOCIATE ARCHITECT	MECHANICAL
1101 S. W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-829-0123 P	
210-829-0578 F	



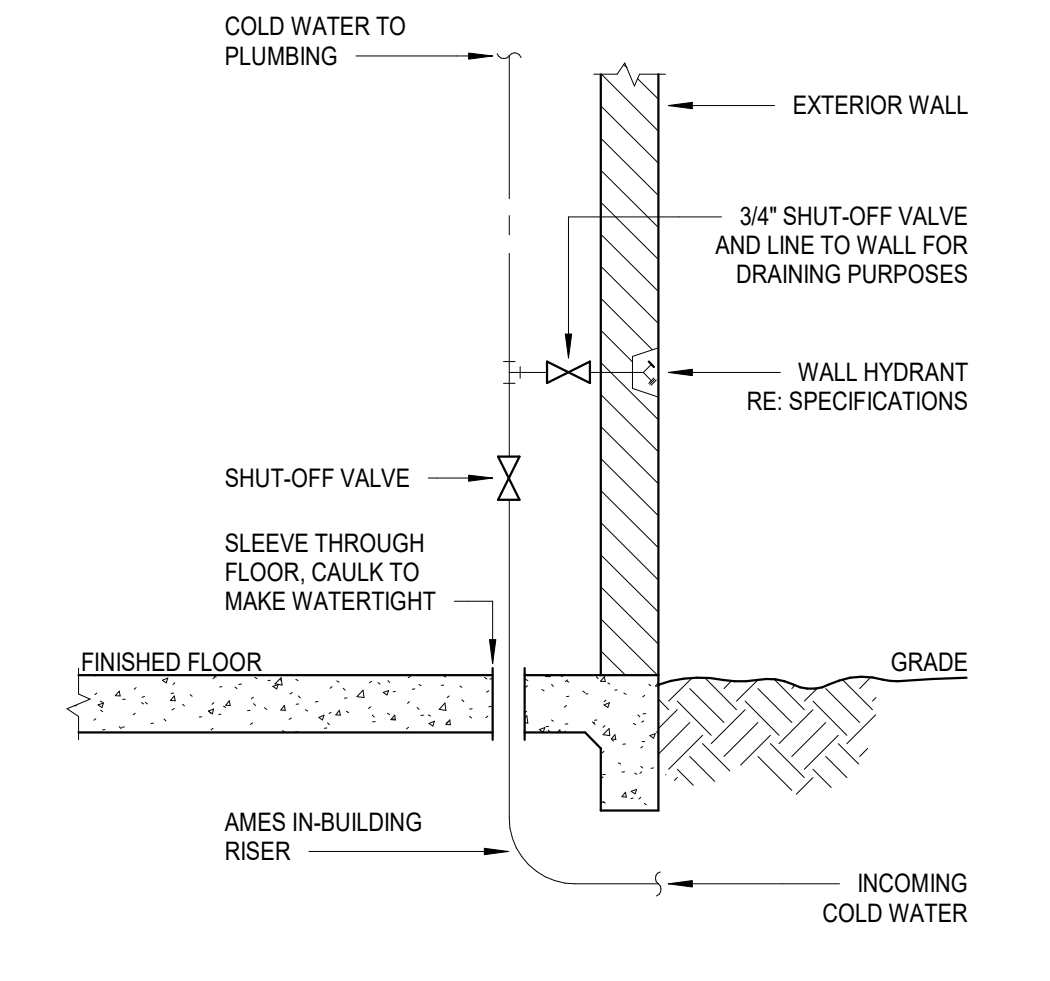
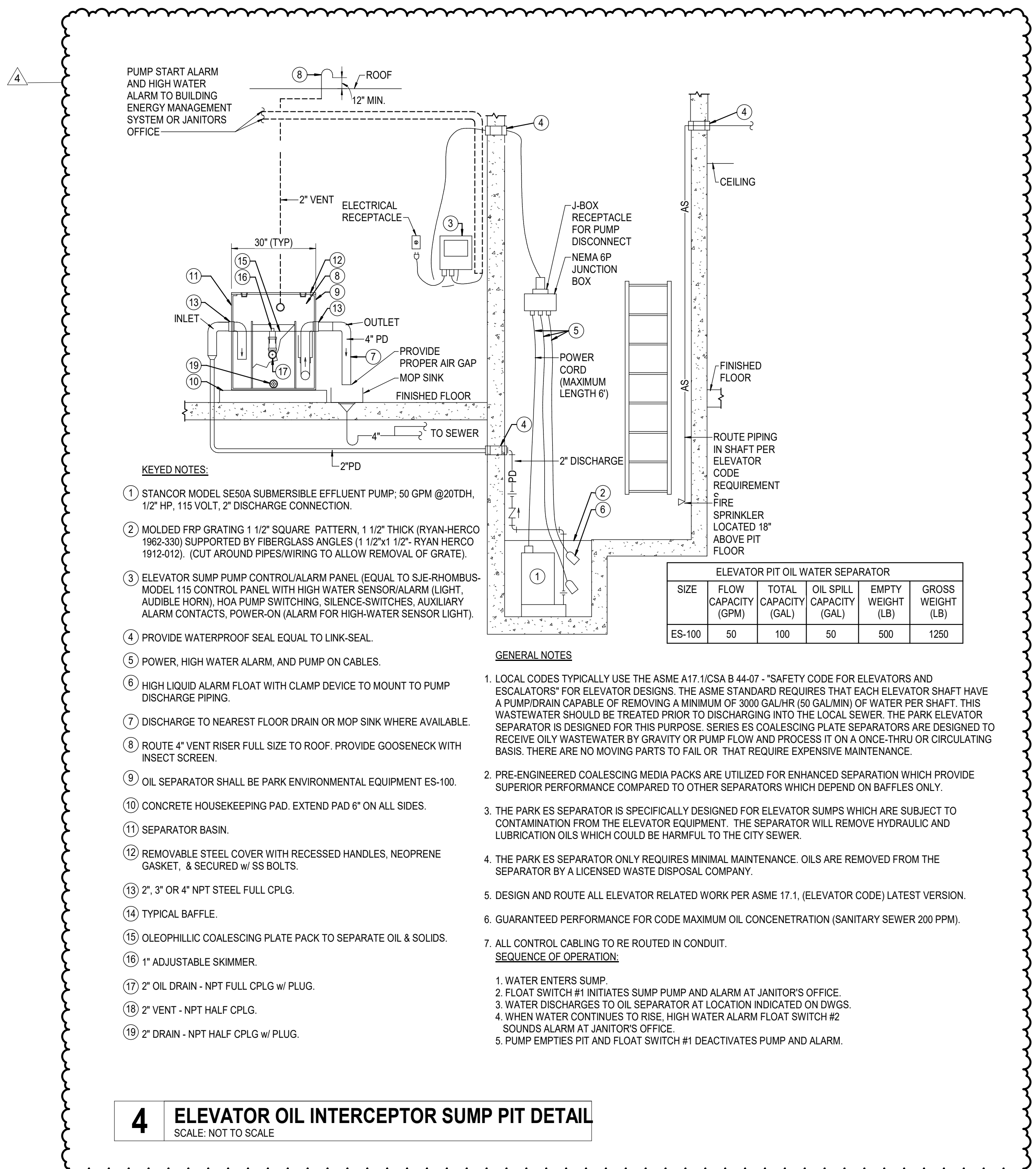
WFAC Black Box Addition PKG 1



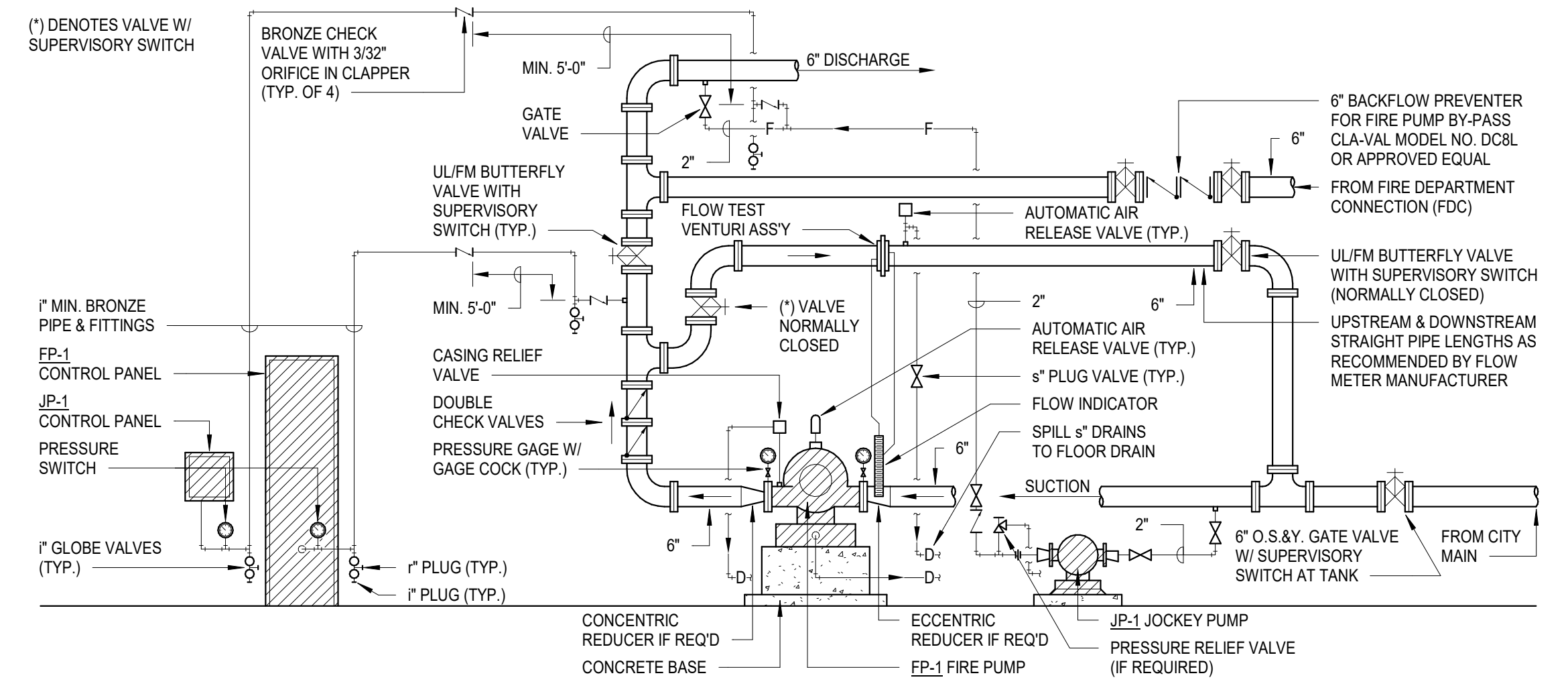
CLIENT		Alamo Colleges	
DATE	06/14/2024	PROJECT NUMBER	230462
DRAWING HISTORY			
No.	Description	Date	

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

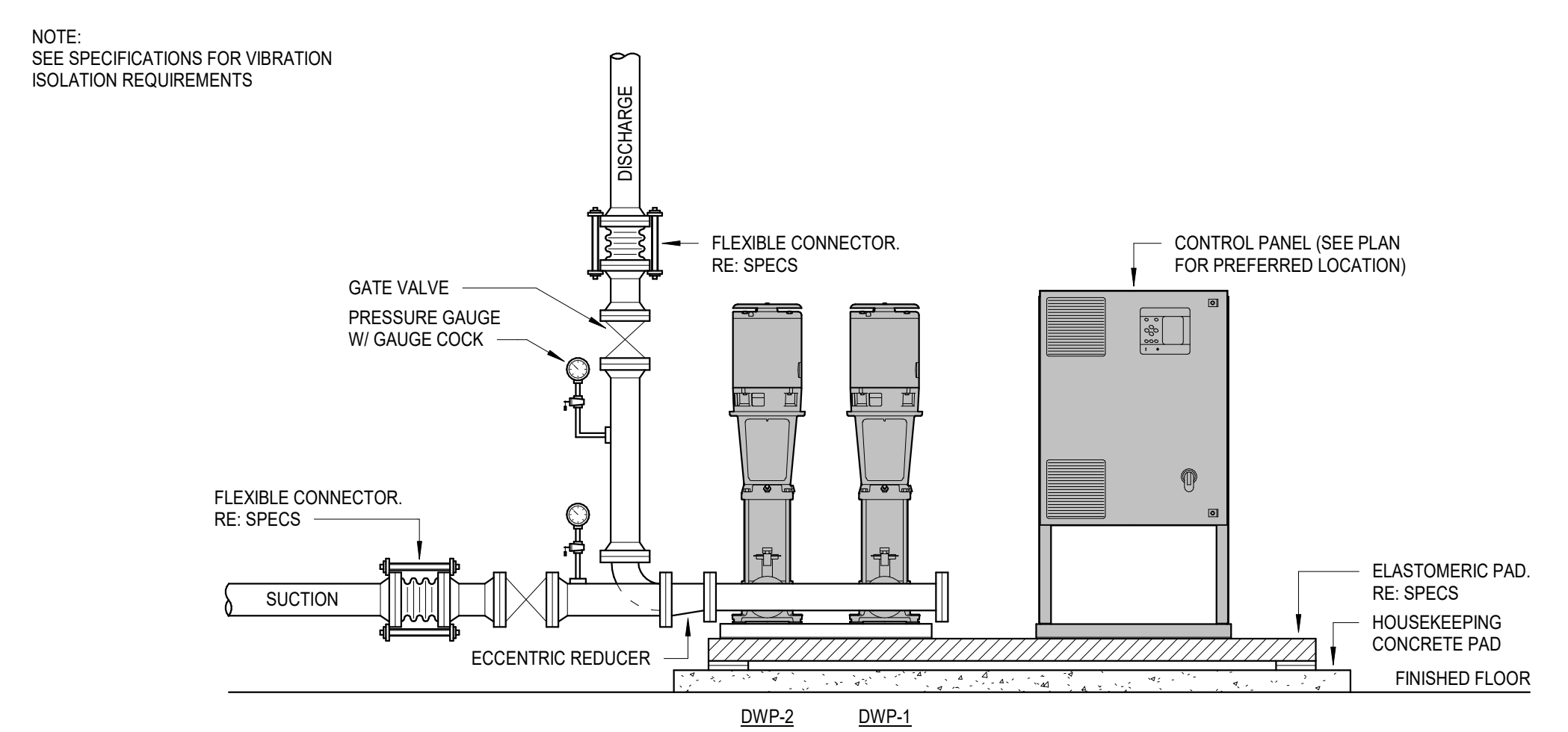
PLUMBING DETAILS



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



2 FIRE PUMP SCALE: N.T.S.

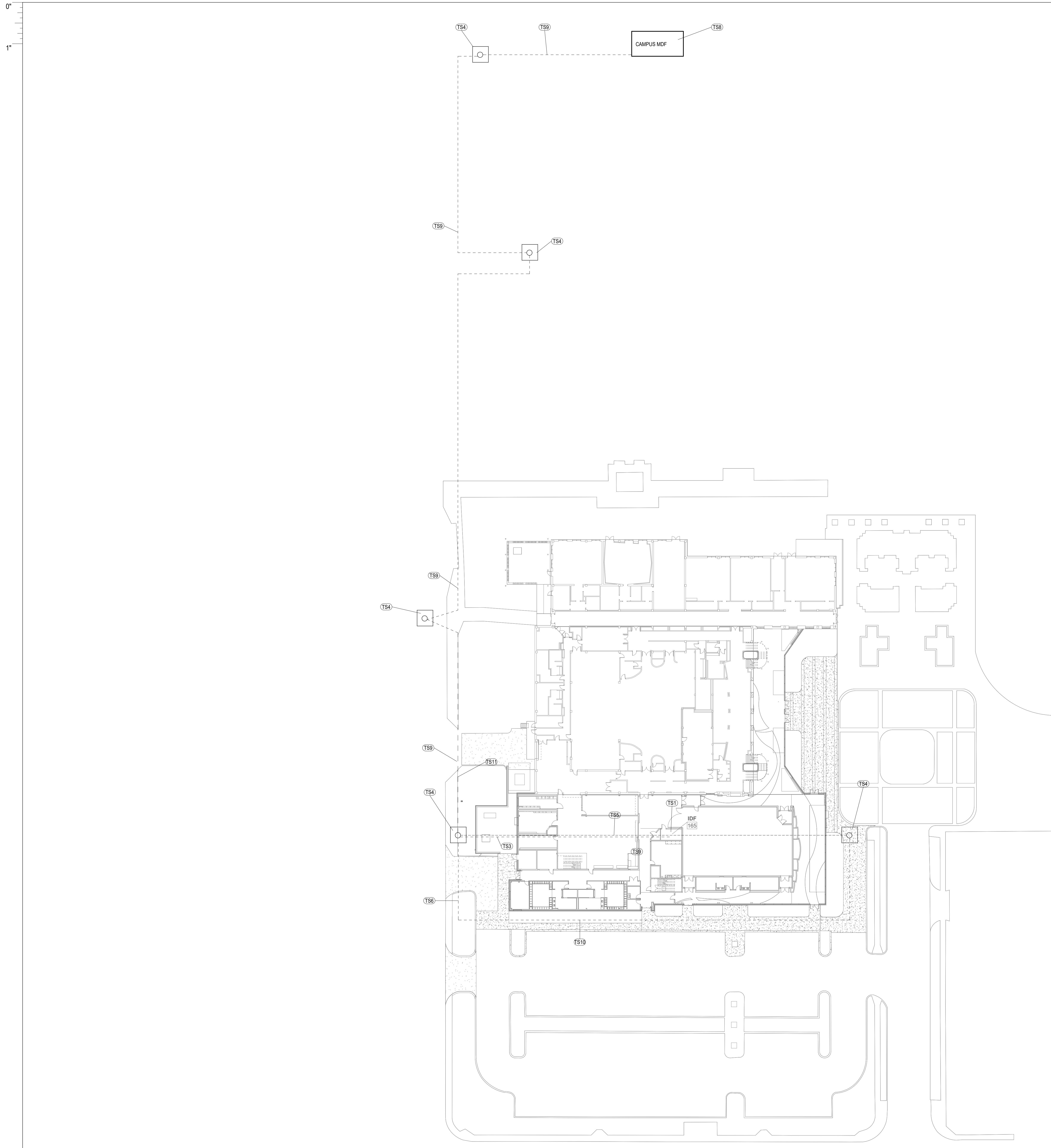


3 DUPLIX PACKAGE PUMPING SYSTEM SCALE: N.T.S.





# ISSUE FOR CONSTRUCTION



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

**TECHNOLOGY KEYNOTES**

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

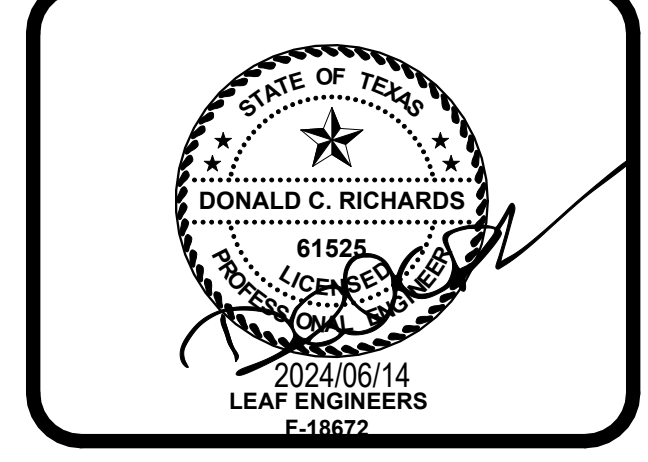
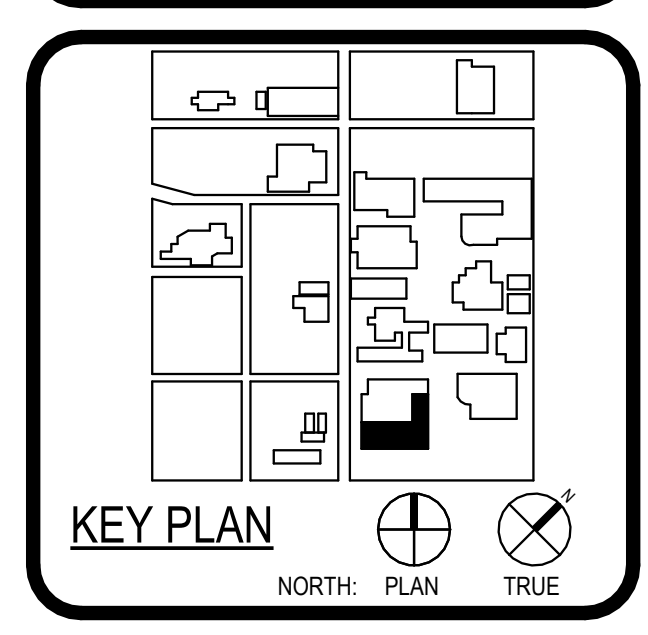


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WFAC Black Box Addition PKG 1

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



CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	1	

**SITE TECHNOLOGY PLAN**