

Alamo Colleges

# WFAC Black Box Addition PKG 1

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

## ISSUE FOR CONSTRUCTION

2024/06/14



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ARCHITECT  
**PBK ARCHITECTS, INC**  
601N.W.LOOP 410, Suite 400  
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T 210-829-0123

ASSOCIATE ARCHITECT  
**B&A ARCHITECTS**  
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CIVIL ENGINEER  
**GESSNER**  
401 W. 26th St, Ste 3  
Bryan, TX 77803  
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STRUCTURAL ENGINEER  
**LUNDY & FRANKE ENGINEERING**  
549 Helmer  
San Antonio, TX 78232  
T 210-979-7900

LANDSCAPE ARCHITECT  
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11 Greenway Plaza, 15th Floor  
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MEP ENGINEER  
**LEAF**  
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San Antonio, TX 78216  
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THEATER CONSULTANT  
**WJHW**  
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San Antonio, TX, 78249  
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ENVELOPE CONSULTANT  
**BEAM PROFESSIONALS**  
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San Antonio, TX 78216  
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WFAC Black Box Addition PKG 1

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



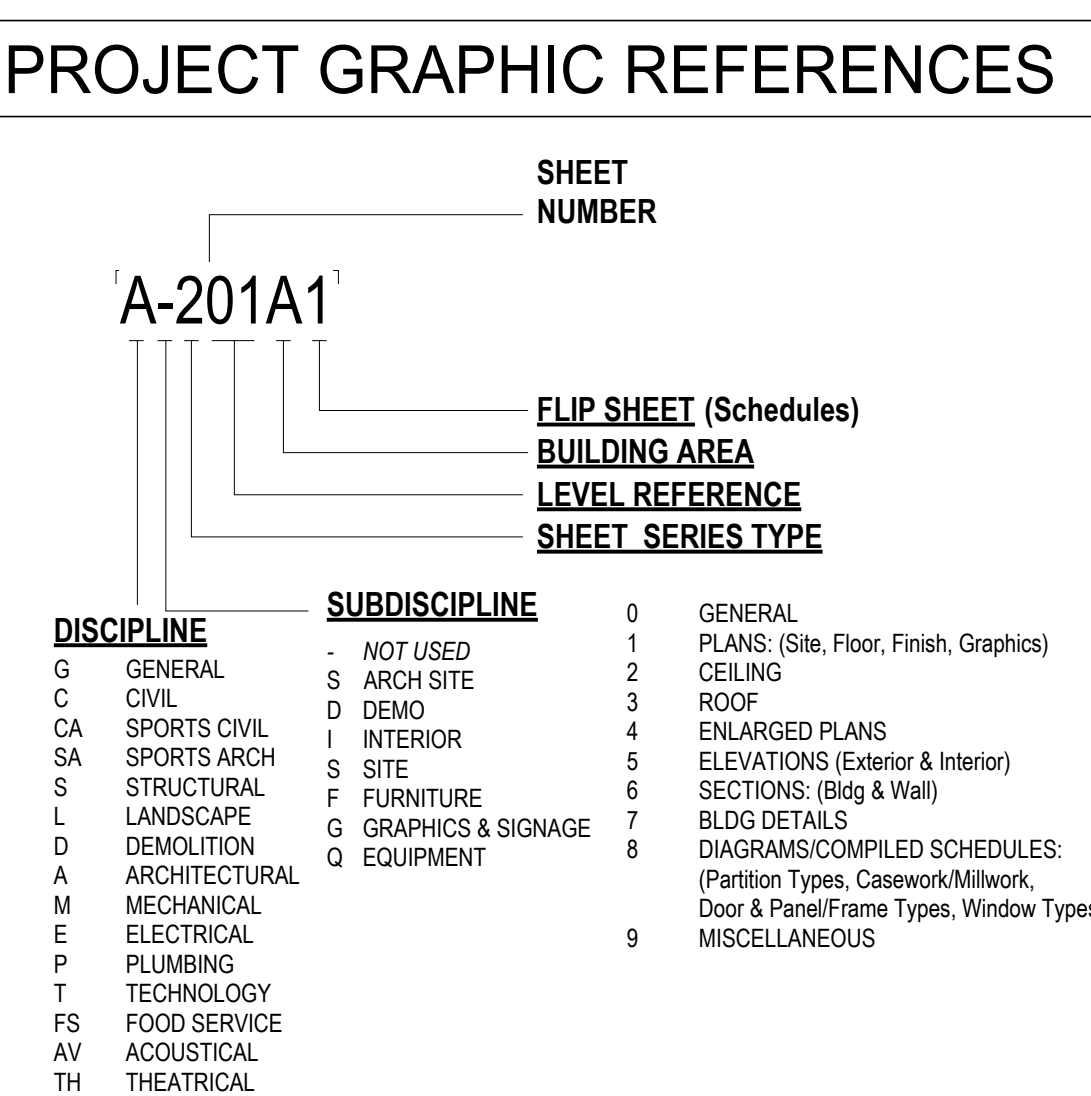
Table with columns SHEET NUMBER and SHEET NAME. Lists architectural, mechanical, and plumbing sheets including general information, site plans, and details.

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

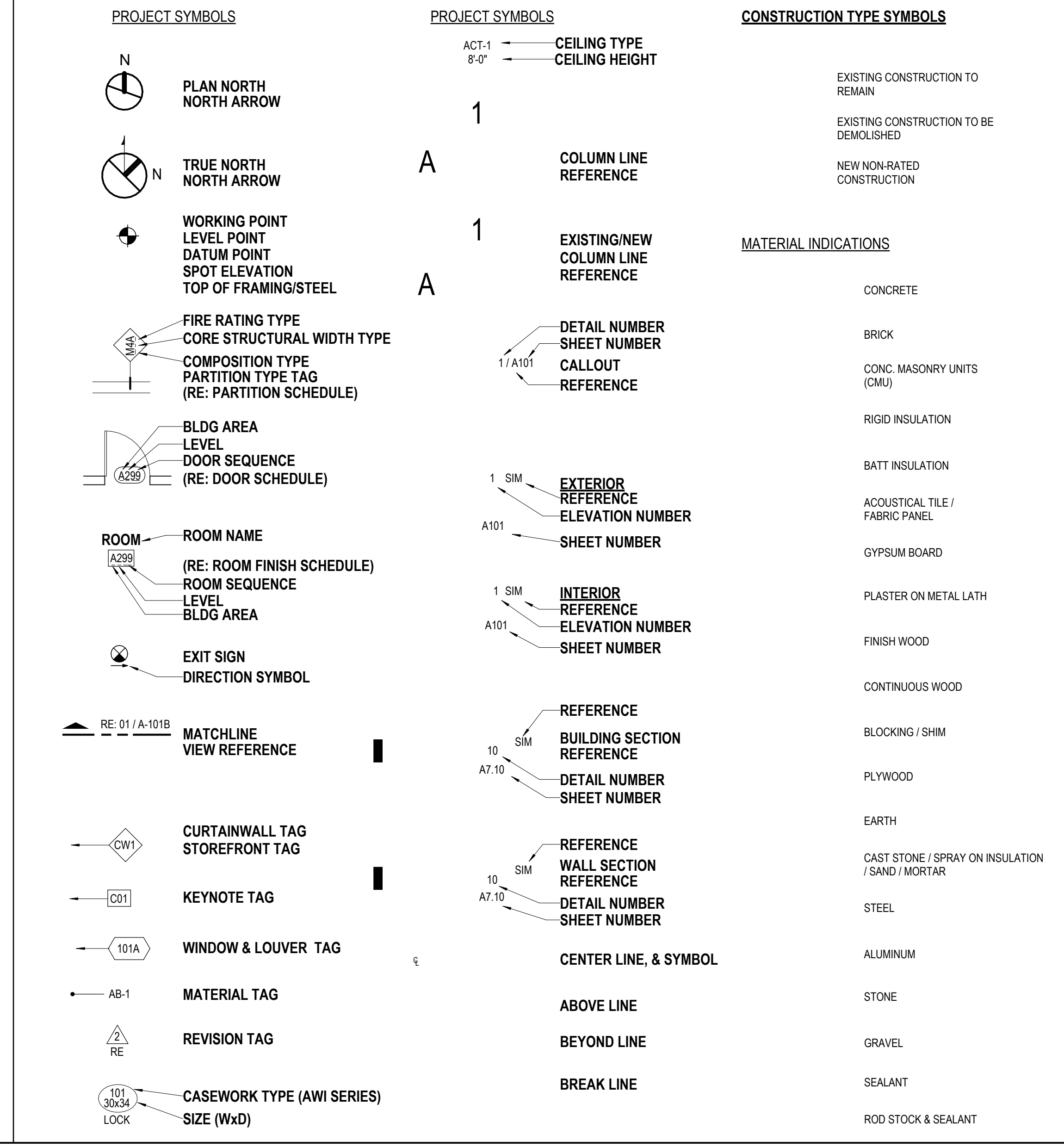
Table of abbreviations and legend keys. Includes sections for 'REFER TO SCHEDULES AND LEGENDS FOR ADDITIONAL ABBREVIATIONS', 'PROJECT GRAPHIC REFERENCES', and 'CONSTRUCTION TYPE SYMBOLS'. Lists various materials and construction types with their corresponding symbols.



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.

PROJECT GRAPHIC REFERENCES



VICINITY MAP

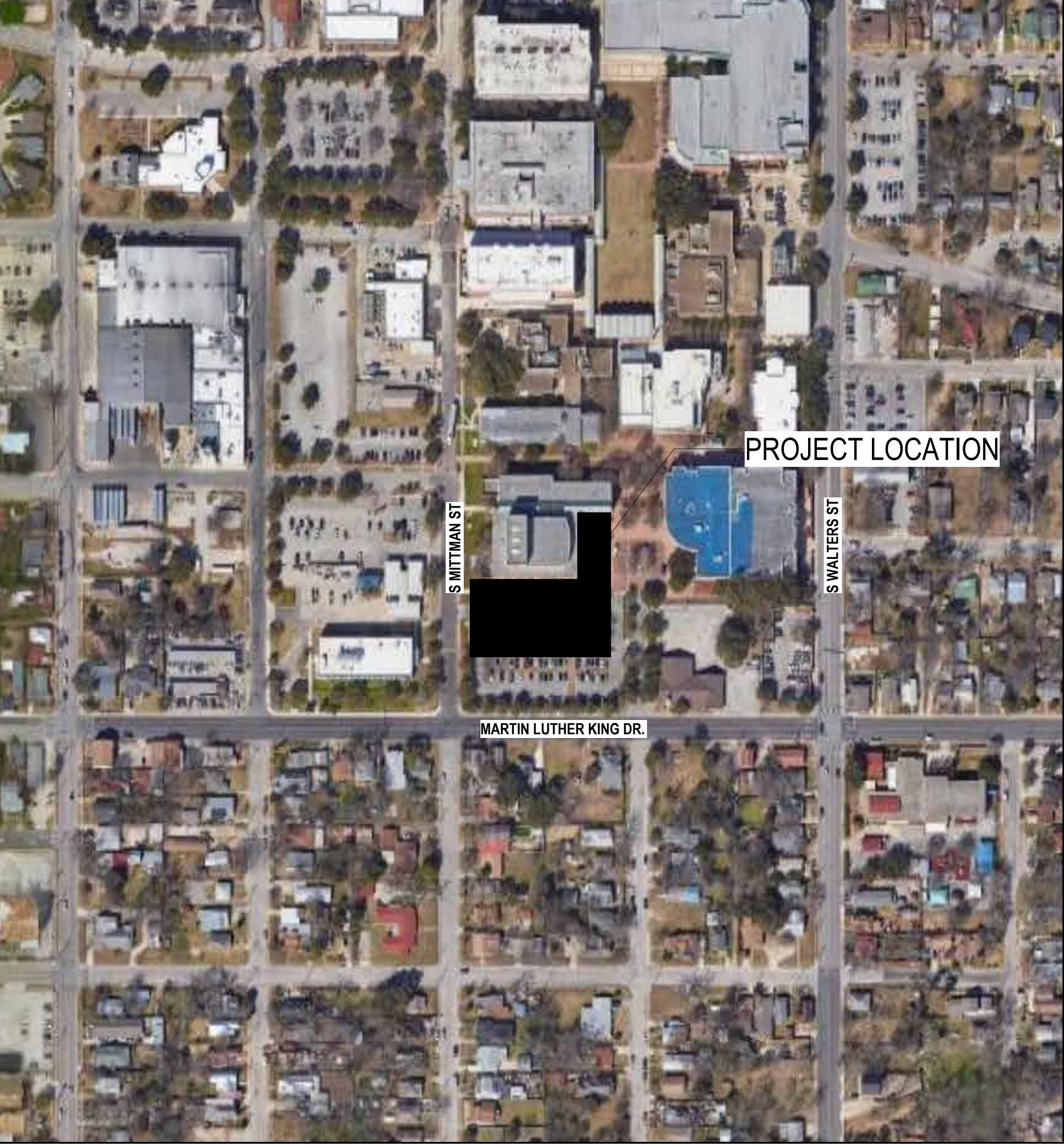


Table listing project information: ARCHITECT (SAN ANTONIO), PROJECT (WFAC Black Box Addition), and various consultants including ENGINEER, LANDSCAPE, and MECHANICAL/ELECTRICAL/PLUMBING.

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

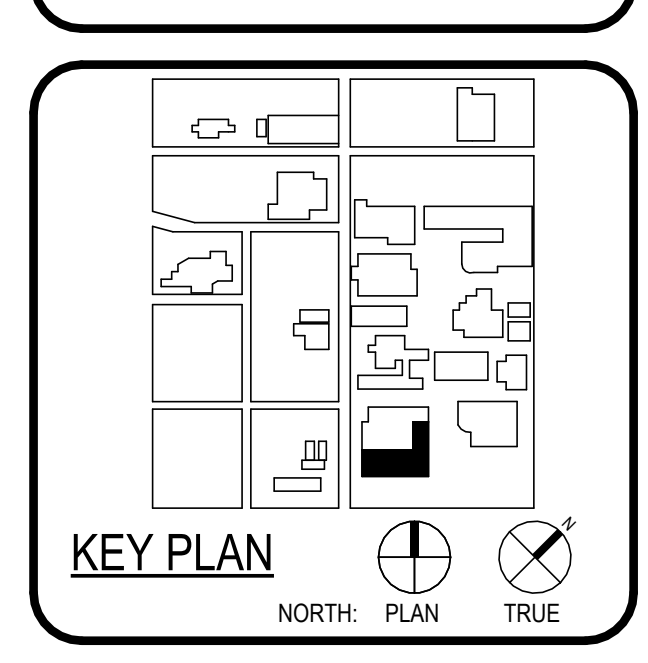


Table with columns CLIENT (Alamo Colleges), DATE (2024/06/14), PROJECT NUMBER (230462), and DRAWING HISTORY table.

ISSUE FOR CONSTRUCTION
BUILDING NUMBER 1
GENERAL PROJECT INFORMATION







GENERAL NOTES:

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SUBMITTALS OF PROPOSED CONSTRUCTION MATERIALS FOR REVIEW BY THE DESIGN ENGINEER A MINIMUM OF 14 DAYS PRIOR TO REQUIRED USE.

DEMOLITION NOTES:

- 1. AREAS BENEATH REMOVED PAVEMENT SHALL BE CLEARED OF ALL LOOSE OR DISTURBED MATERIAL AND WATER. THE AREA SHALL BE PROOF-ROLLED AND MANUALLY COMPACTED OR REPLACED WITH SIMILAR MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT PER SPECIFICATIONS.

DIMENSION CONTROL NOTES:

- 1. THE CONTRACTOR MAY OBTAIN AN ELECTRONIC COPY OF PROJECT PLANS FOR CONSTRUCTION PURPOSES, WITH THE PERMISSION OF THE OWNER, THE ELECTRONIC FILE AND INFORMATION GENERATED BY THE GESSNER ENGINEERING, FOR THIS PROJECT IS CONSIDERED BY GESSNER ENGINEERING, TO BE CONFIDENTIAL.

GRADING NOTES:

- 1. ALL UNPAVED AREAS SHALL BE ADEQUATELY GRADED TO DRAIN AT A MINIMUM OF 2.0% SLOPE, UNLESS OTHERWISE NOTED, SO THAT NO PONDING OCCURS.

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER LINES TO BE POLYVINYL CHLORIDE (PVC), ASTM D3034, SDR-26, TYPE PSM SEWER PIPE WITH BELL AND SPOGOT END FOR RUBBER GASKETED JOINTS MEETING ASTM F477 SDR-26 PVC UNLESS OTHERWISE NOTED ON THE PLANS.

WATER NOTES:

- 1. ALL WATER LINES TO BE POLYVINYL CHLORIDE (PVC), AWWA C-900, DR14.

PAVEMENT NOTES:

- 1. SUBGRADE: 1A. EXISTING VEGETATION, TREES, STUMPS, AND ROOTS SHALL BE GRUBBED AND REMOVED. THE TOP 6" OF TOPSOIL AND SUBGRADE STRIPPED FROM THE AREA TO BE COVERED BY PAVEMENT.

DEMOLITION NOTES:

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GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL COMPLY TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATER.

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER LINES SHALL BE THOROUGHLY CLEANED, TESTED, AND APPROVED PRIOR TO ANY CONNECTIONS BEING MADE TO THE EXISTING SANITARY SEWER SYSTEM.

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DEMOLITION NOTES:

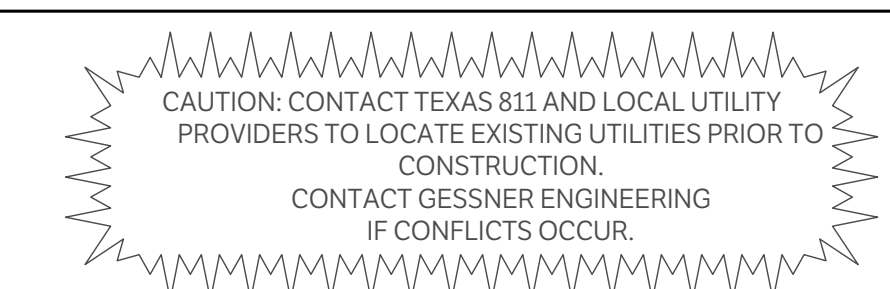
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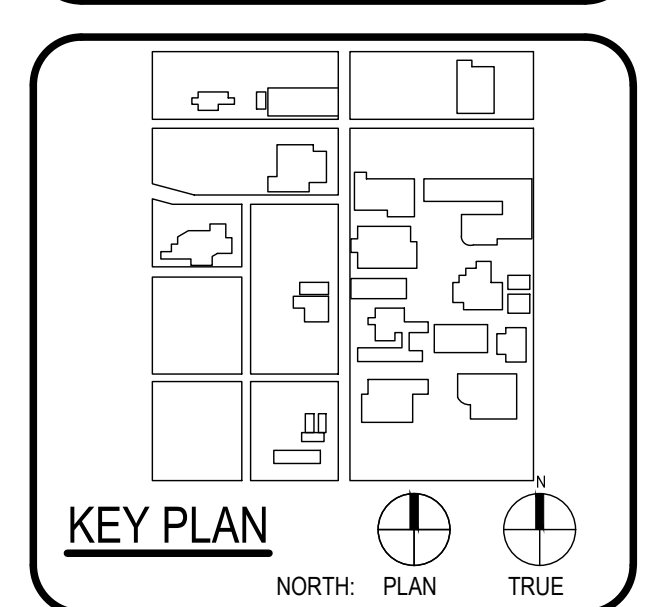
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ARCHITECT PKB Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 160B

ALAMO COLLEGES ST. PHILLIP'S COLLEGE



Professional Engineer Seal for Andrew A. Lange, No. 118770, dated 06/14/2024.

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

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

NOTES CITY OF SAN ANTONIO

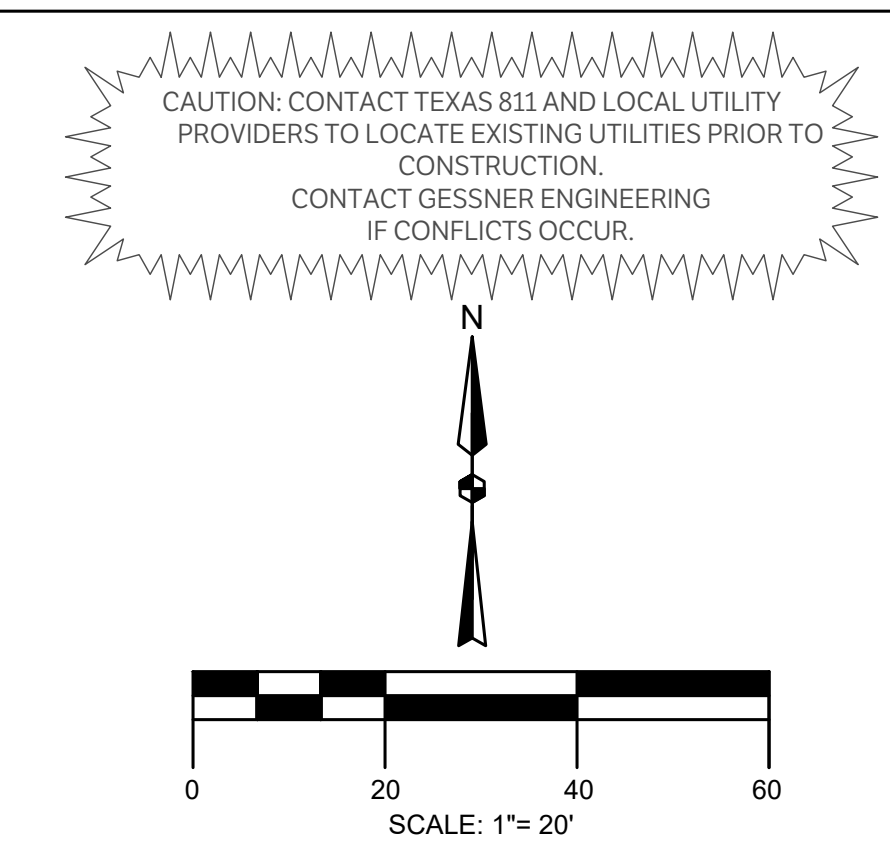
ISSUE FOR CONSTRUCTION

WFAC Black Box Addition PKG 1

C100

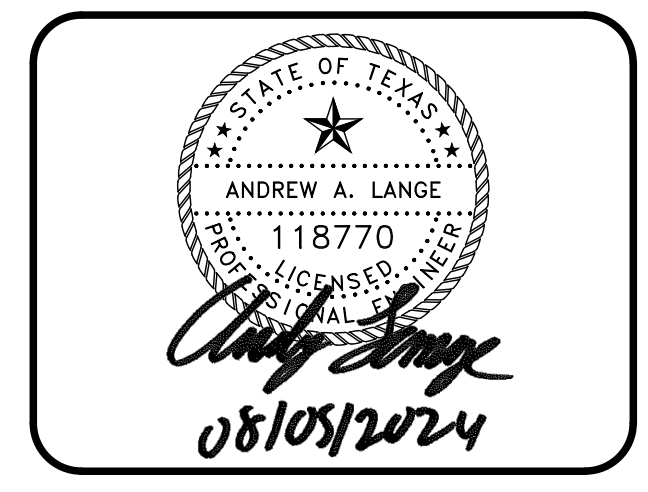
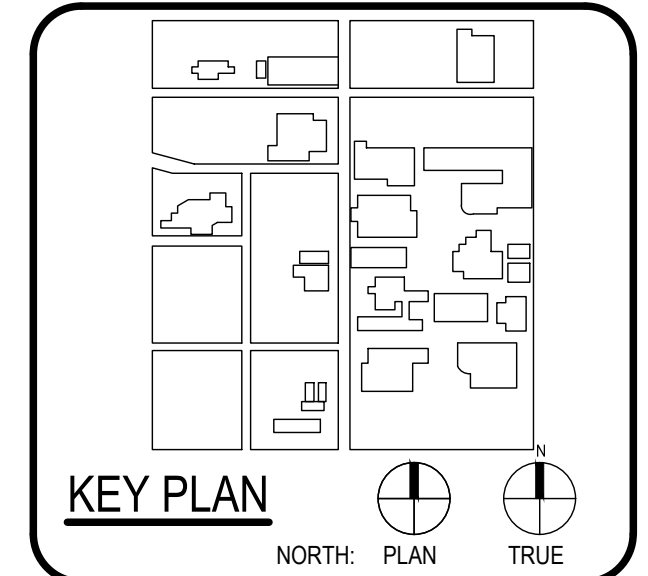
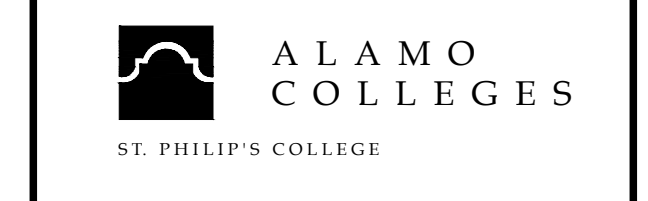


# ISSUE FOR PERMIT



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	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
DESIGNER	BA & ARCHITECTS
LANDSCAPE ARCHITECT	BA & ARCHITECTS
MECHANICAL ENGINEER	LINDY & HARRIS ENGINEERING
ELECTRICAL ENGINEER	WATSON FINE ART CENTER
PLUMBING ENGINEER	WATSON FINE ART CENTER
TRUCK DRIVER	WATSON FINE ART CENTER
PROFESIONAL SEAL	WATSON FINE ART CENTER
PROFESIONAL SEAL	WATSON FINE ART CENTER
PROFESIONAL SEAL	WATSON FINE ART CENTER

## WFAC Black Box Addition PKG 1



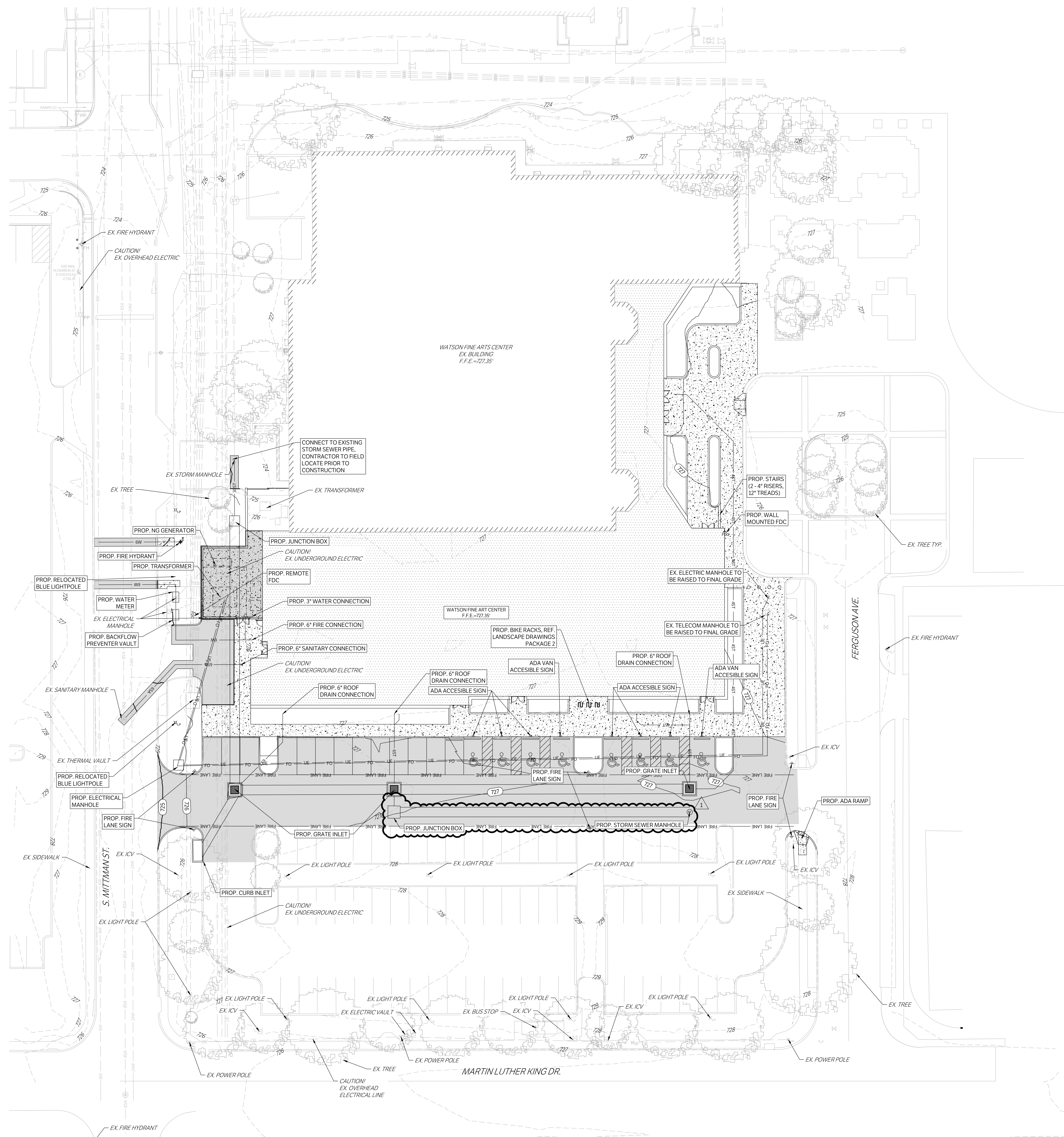
CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

## ISSUE FOR PERMIT

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

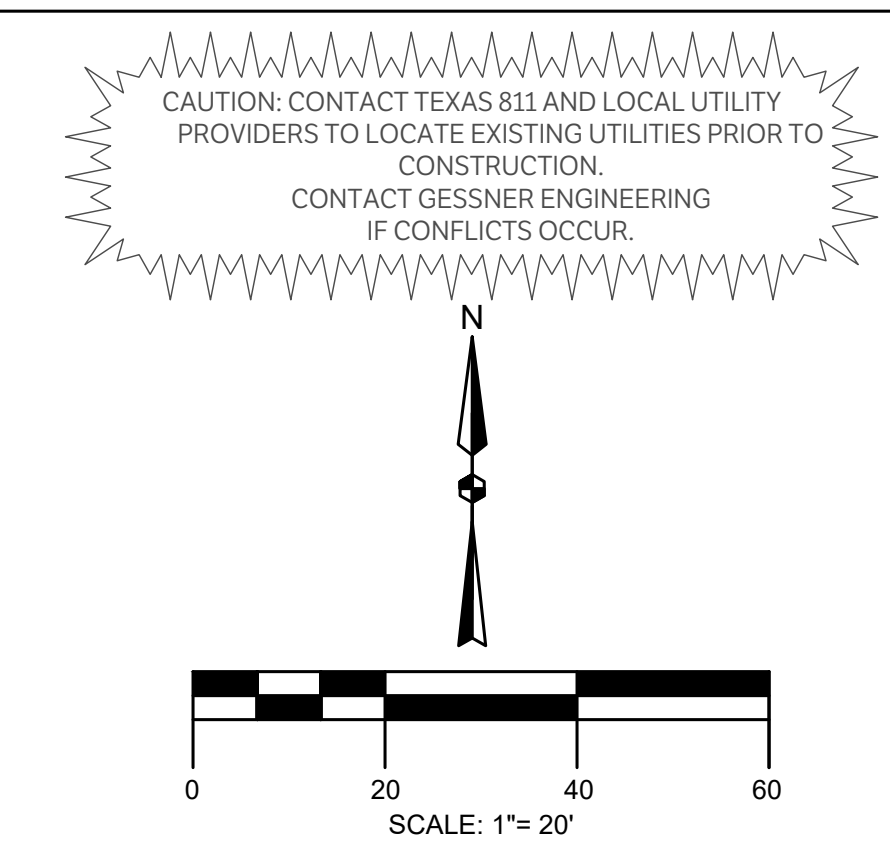
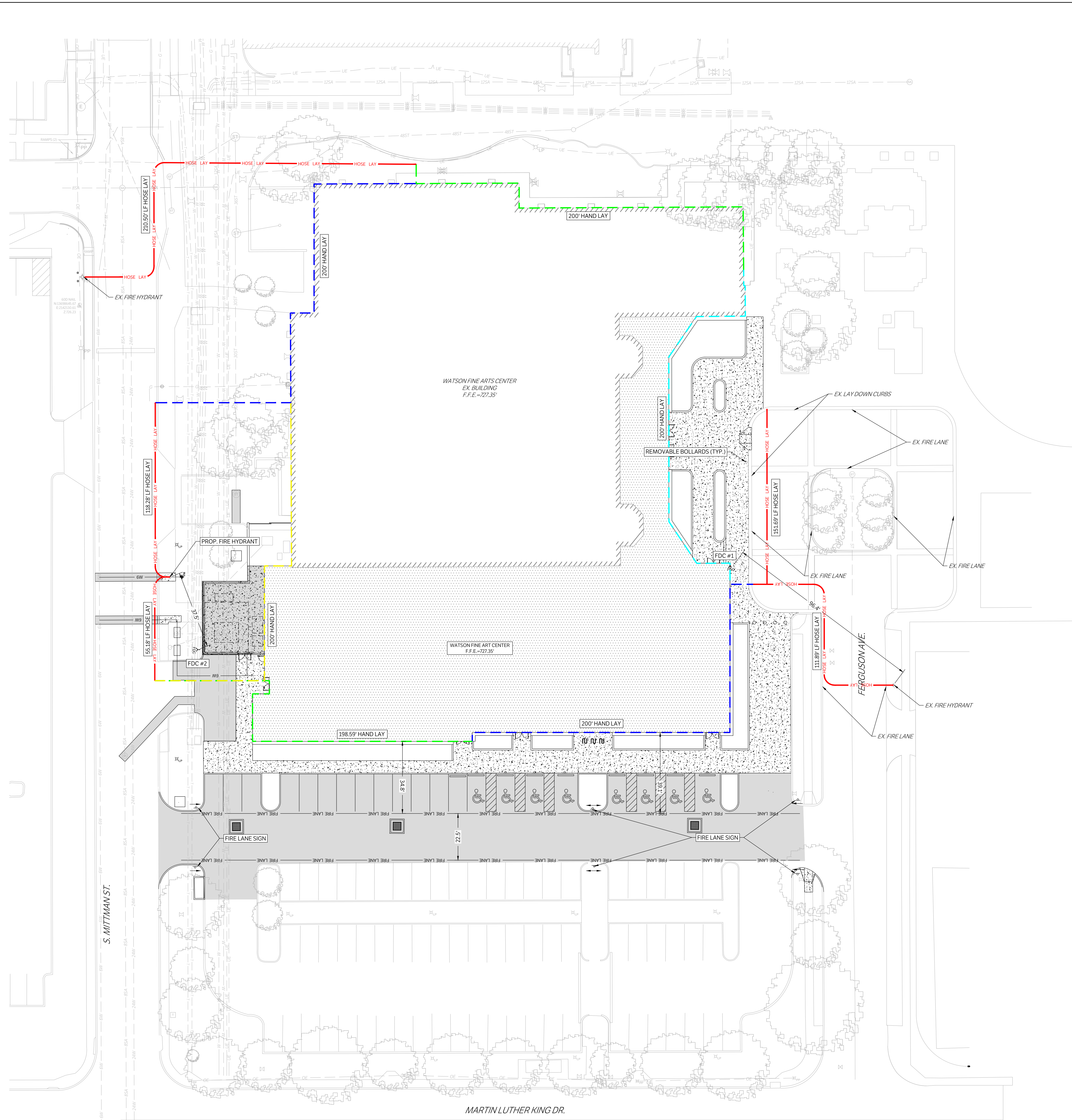
ITEM	QUANTITY
EXISTING PARKING SPOTS	125
EXISTING ADA SPOTS	9
REQUIRED ADA SPOTS	4
PROPOSED PARKING SPOTS	81
PROPOSED ADA SPOTS	8

### IMPERVIOUS COVER COMPARISON

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



# ISSUE FOR CONSTRUCTION



**LEGEND**

[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
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[Symbol]	EX. IRRIGATION CONTROL VALVE
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[Symbol]	PROPOSED UTILITY EASEMENT

**FIRE PROTECTION INFO**

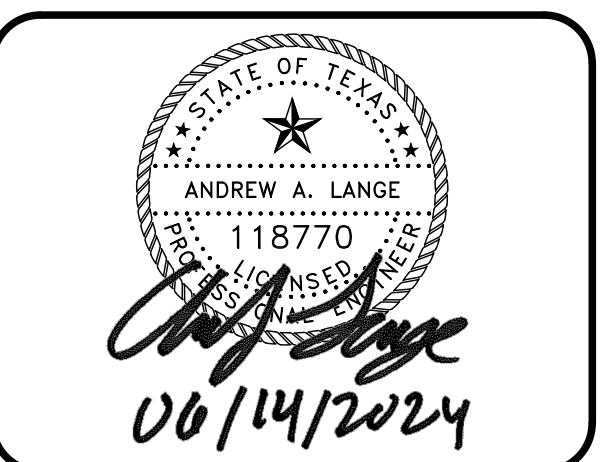
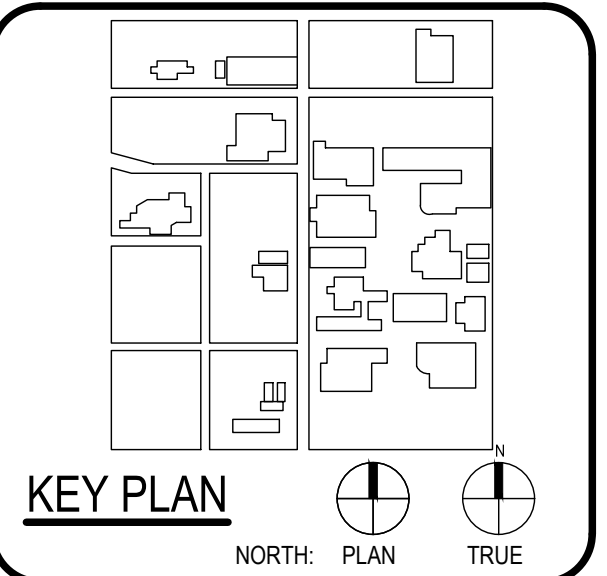
OWNER:	ST. PHILLIPS COLLEGE
SITE AREA (SF)	21,863
NO. OF STORIES	1
PROPOSED BUILDING	TOTAL GSF   HEIGHT   TYPE
	26,114   38 ft   IIB
TOTAL REQUIRED FLOW (GPM)	3,500
BUILDING SPRINKLER SYSTEM:	YES
REDUCTION DUE TO SPRINKLERS:	75%
FINAL REQUIRED FIRE FLOW	875
AVAILABLE FLOW @ 20 PSI (GPM)	940



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210-829-0578 F  
TX Firm BR 1608

ASSOCIATE ARCHITECT: SH & AL ARCHITECTS  
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SUITE 1000  
SAN ANTONIO, TX 78201  
210-224-1000  
LANDSCAPE: TONY & TONY LANDSCAPE ARCHITECTS  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TX 78201  
210-224-1000  
LUNY & HARRIS ENGINEERING  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TX 78201  
210-224-1000  
PROVIDER: MEYER ENGINEERS  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TX 78201  
210-224-1000

## WFAC Black Box Addition PKG 1



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

DRAWING HISTORY

No.	Description	Date

## ISSUE FOR CONSTRUCTION

BUILDING NUMBER

### SITE FIRE PLAN



# ISSUE FOR CONSTRUCTION

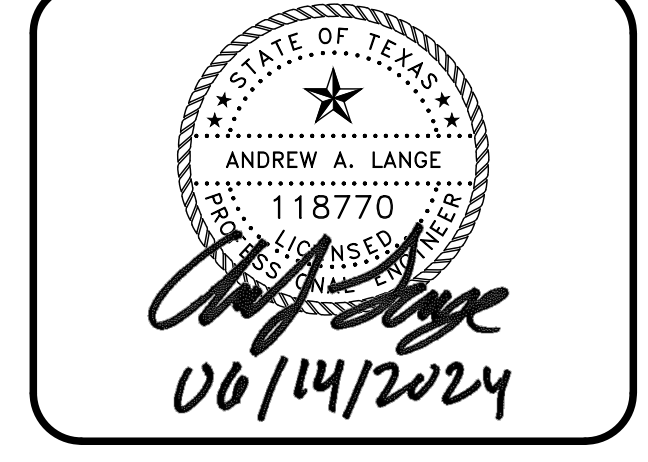
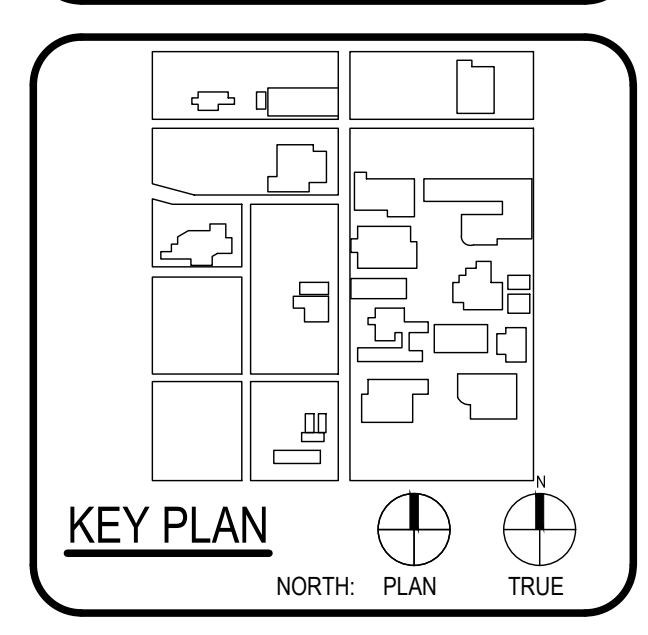
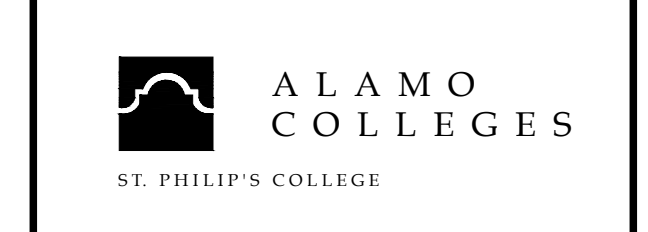


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210-829-0578 F  
TX Firm BR 1608

WFAC Black Box Addition PKG 1

600 S. Miltman St.  
San Antonio, TX 78203

ISSUE FOR CONSTRUCTION



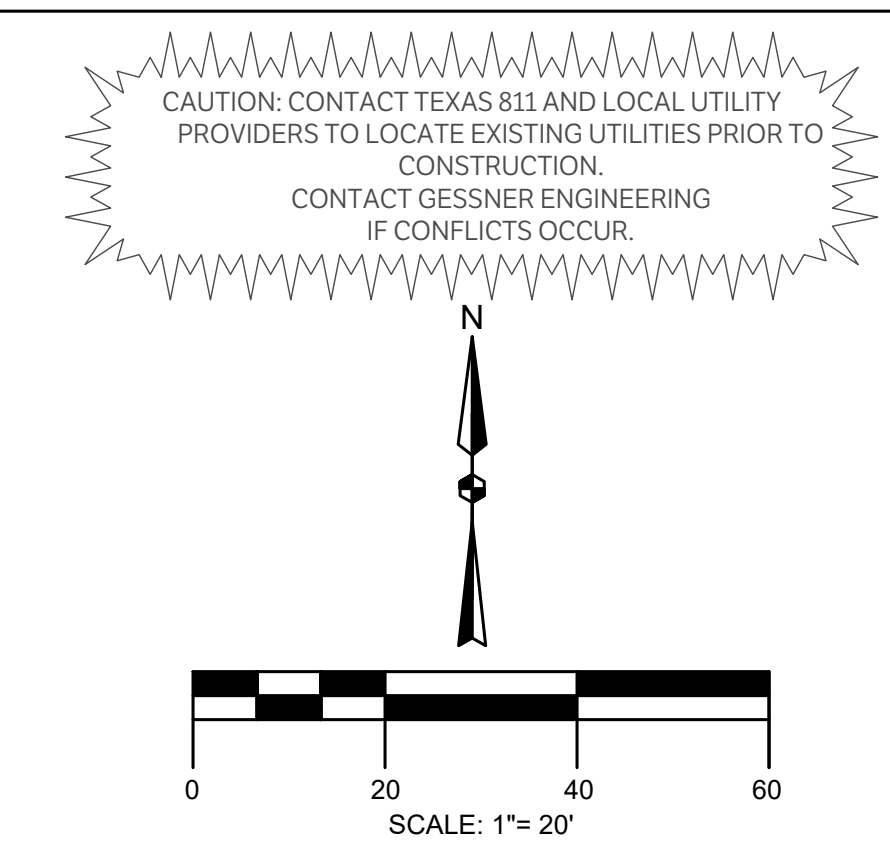
CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

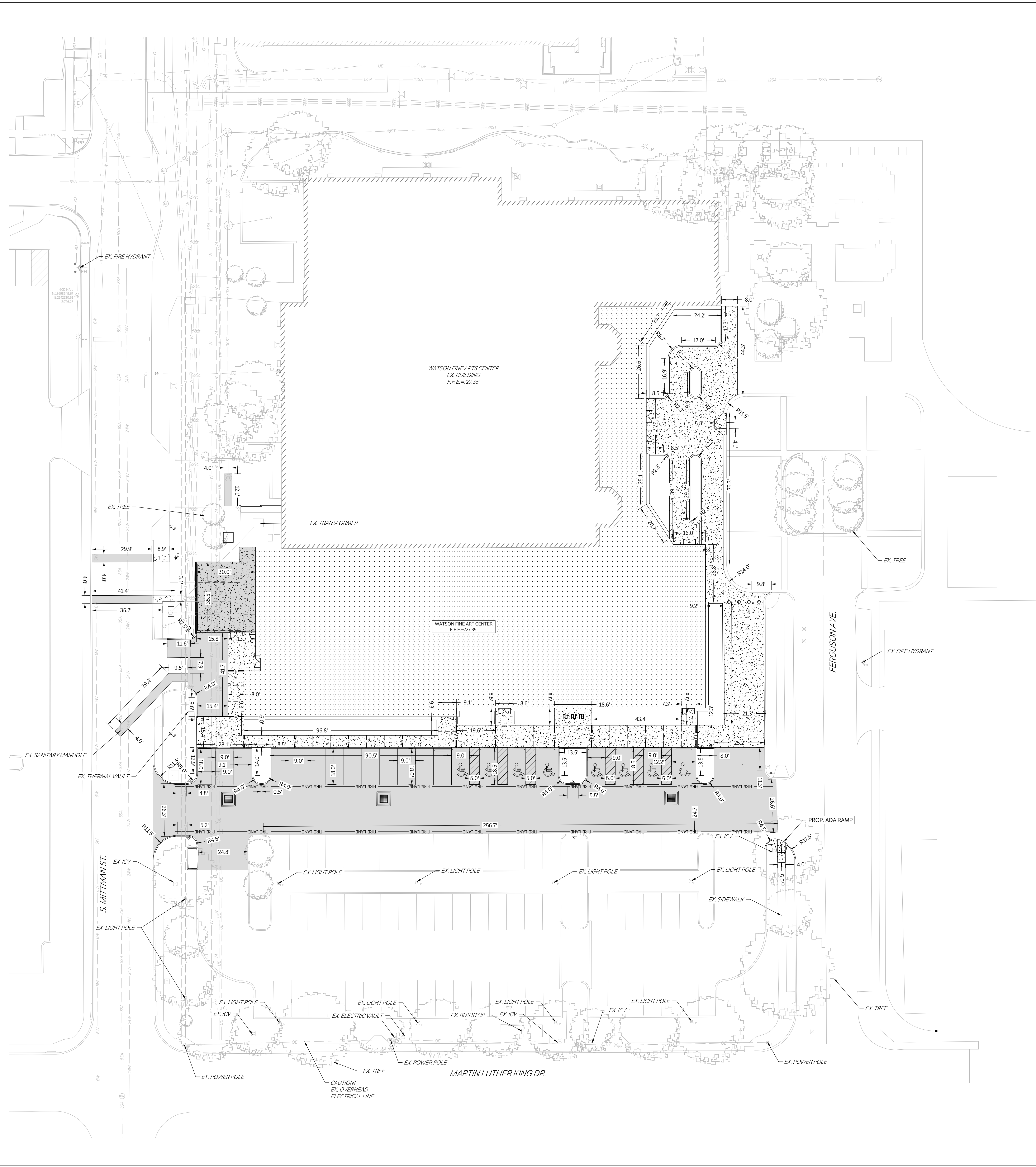
BUILDING NUMBER

**DIMENSION CONTROL & PAVING PLAN**

**C202**



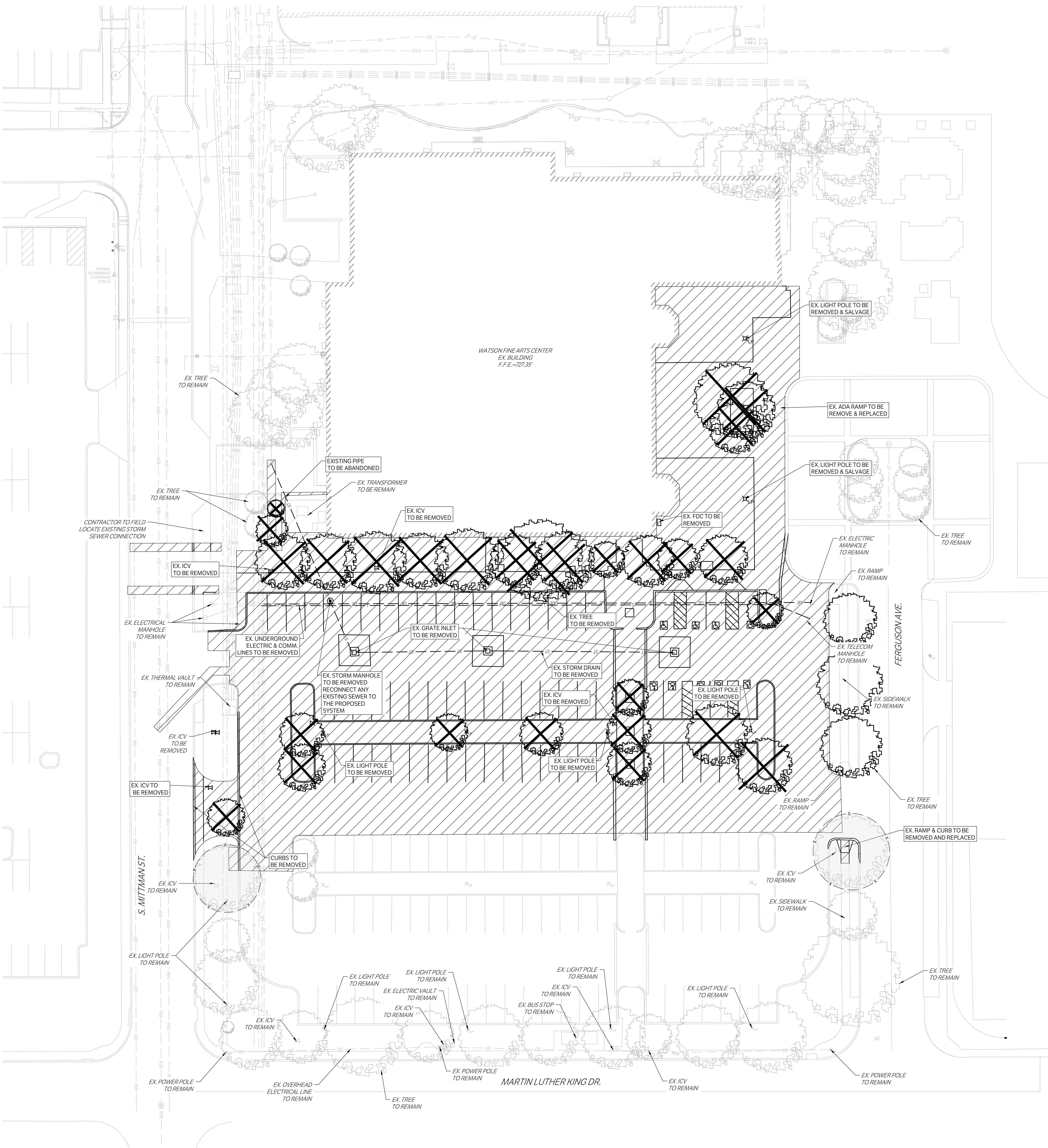
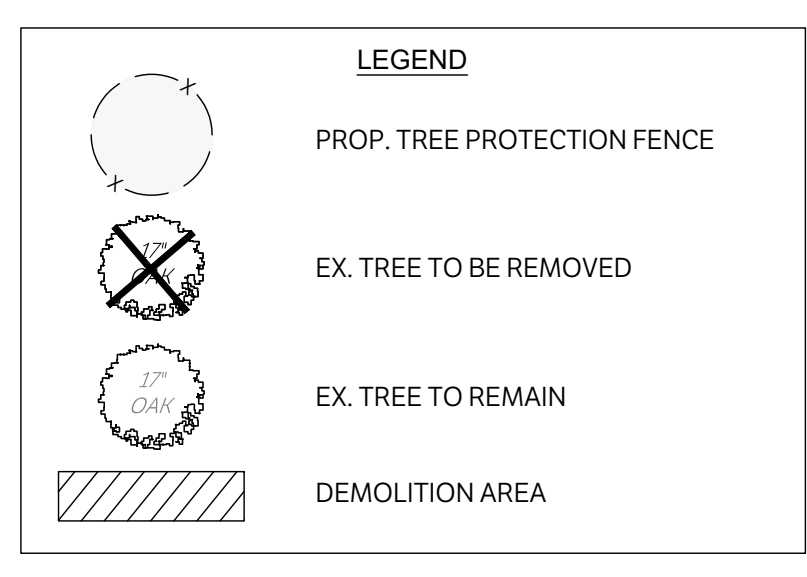
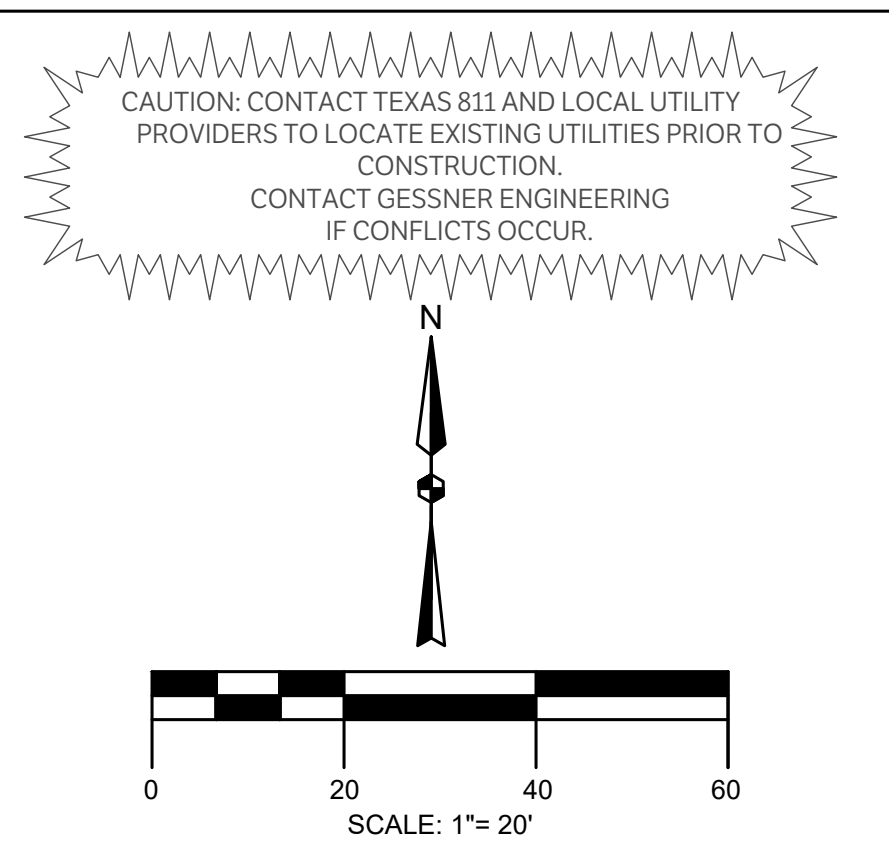
LEGEND	
[Pattern]	PROPOSED ASPHALT PAVEMENT
[Pattern]	PROPOSED STRUCTURAL PAVEMENT REF. STRUCTURAL
[Pattern]	PROPOSED 4" CONCRETE SIDEWALK
[Pattern]	PROPOSED BUILDING
[Line]	EXISTING PAVEMENT EDGE
[Line]	PROPERTY LINE
[Line]	EXISTING EASEMENT
[Line]	PROPOSED EASEMENT
[Line]	EXISTING CONTOURS
[Line]	PROPOSED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





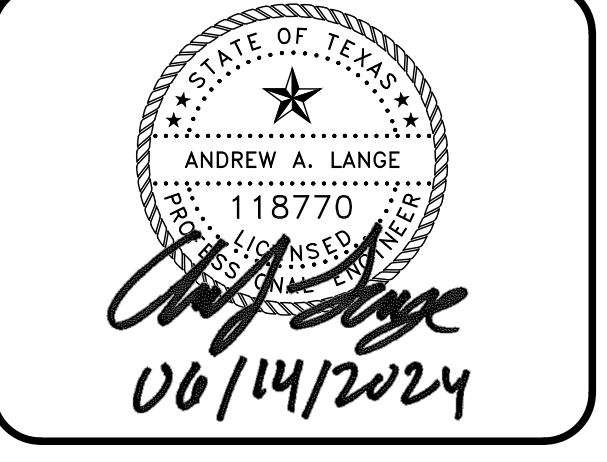
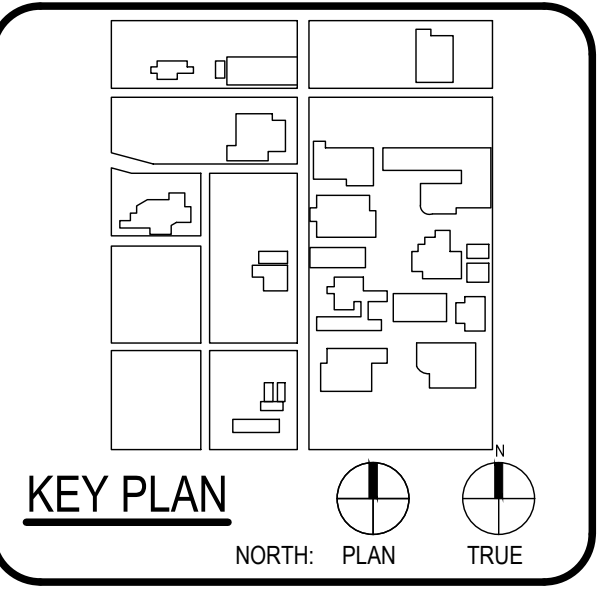
# ISSUE FOR CONSTRUCTION

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 BRIDGE CELEBRITY LANDSCAPE DESIGN GROUP 1111 W. 14TH ST. SAN ANTONIO, TX 78205 LUNDY & HARRIS ENGINEERING 1111 W. 14TH ST. SAN ANTONIO, TX 78205 T. 210-829-0123 P. 210-829-0578 F. 210-829-0578 TX Firm BR 1608	

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

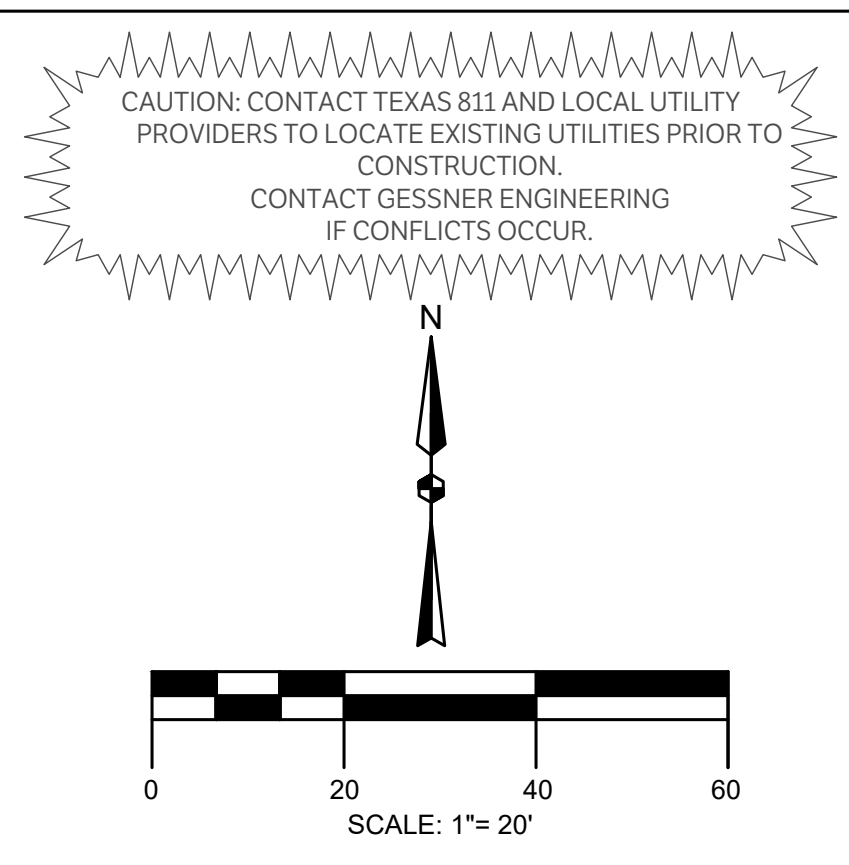
**EXISTING  
CONDITIONS & DEMO  
PLAN**

C300

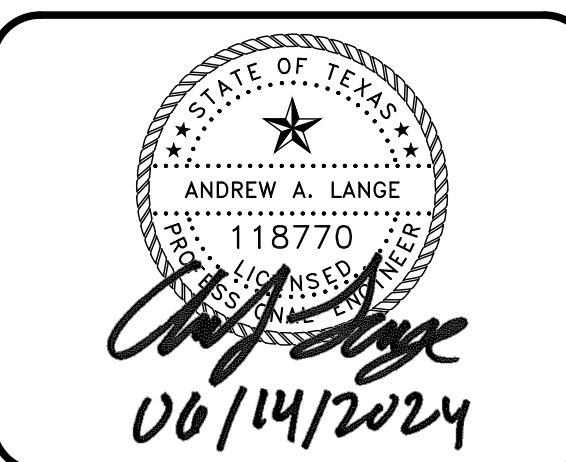
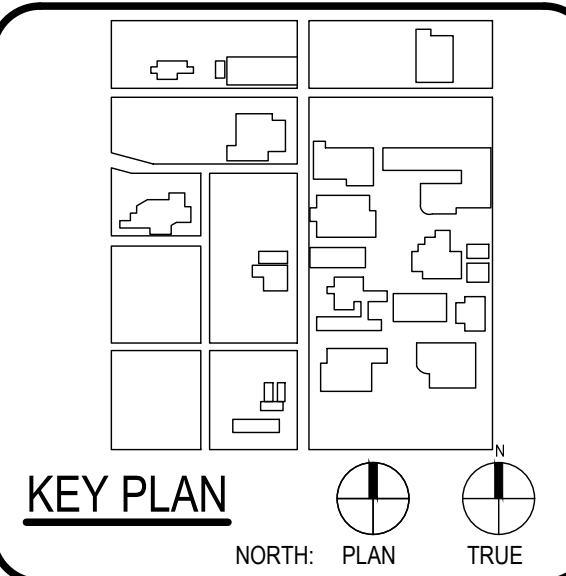
CHECKED BY:  
SH & AL  
DRAWN BY:  
JC



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	
PROJECT	WFAC Black Box Addition	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER		



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

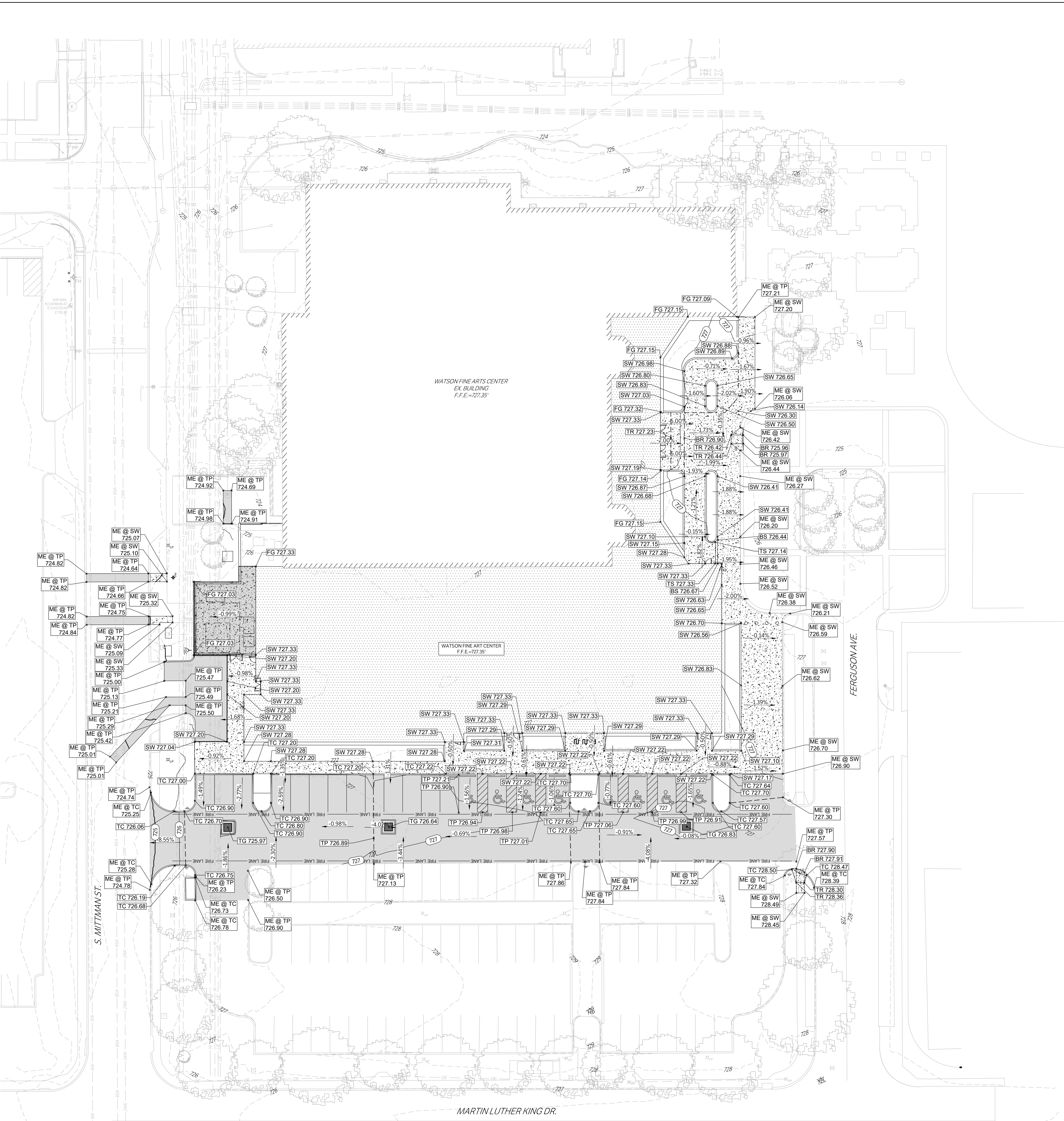


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION

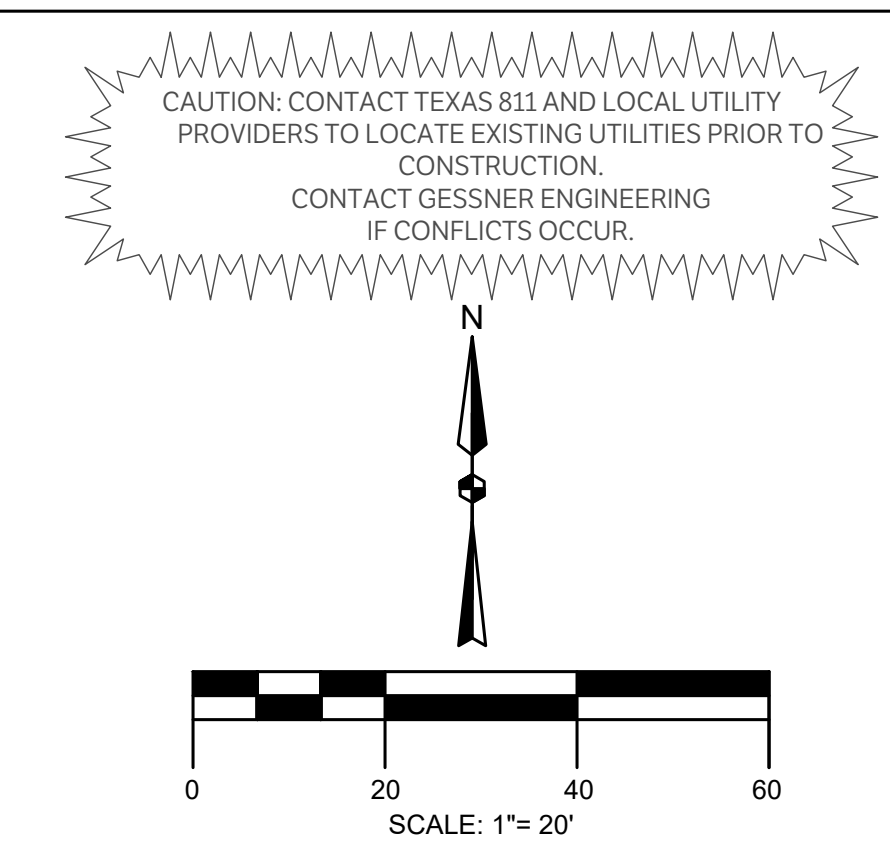
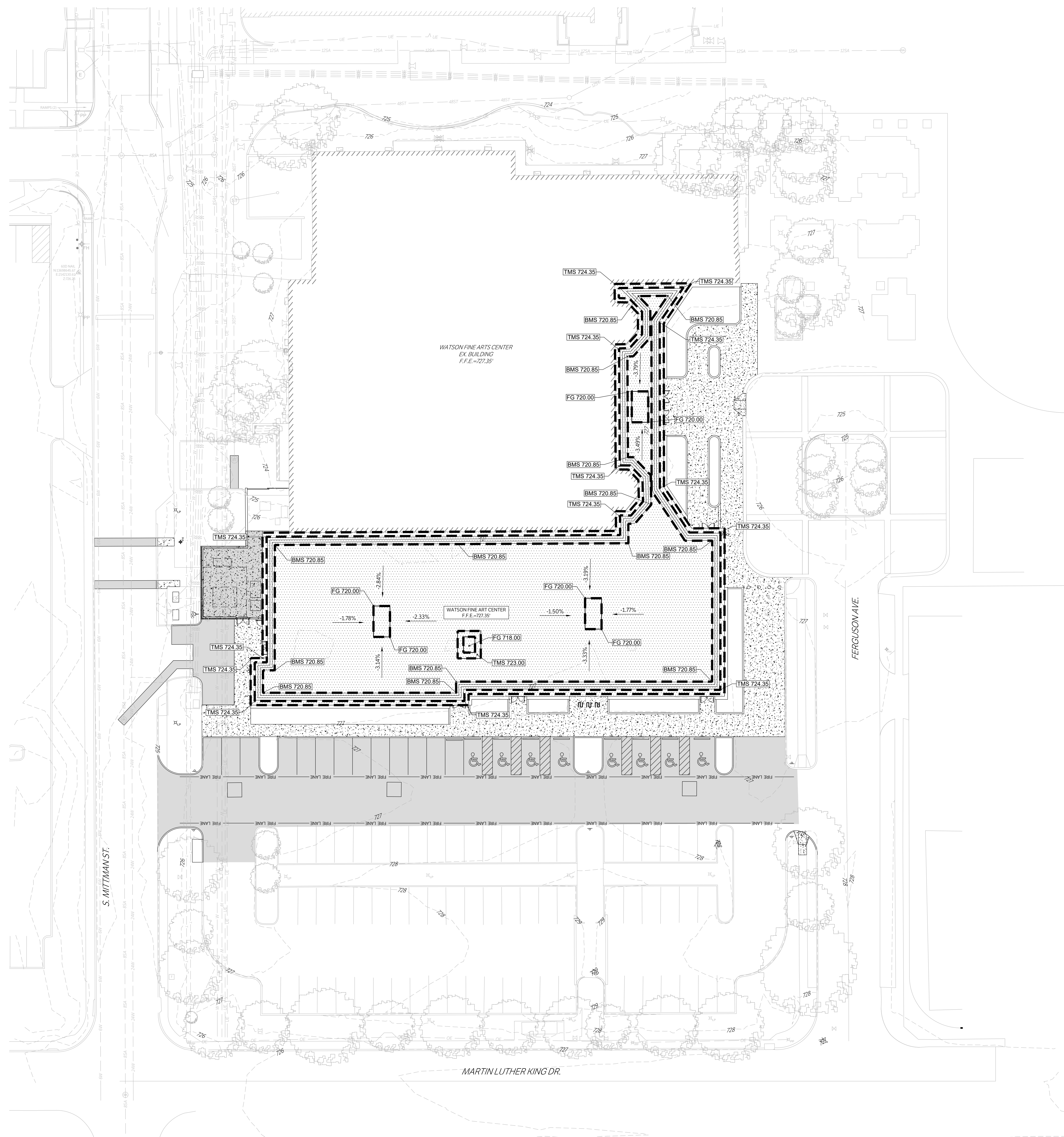
BUILDING NUMBER

**GRADING PLAN**





# ISSUE FOR CONSTRUCTION



**LEGEND**

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

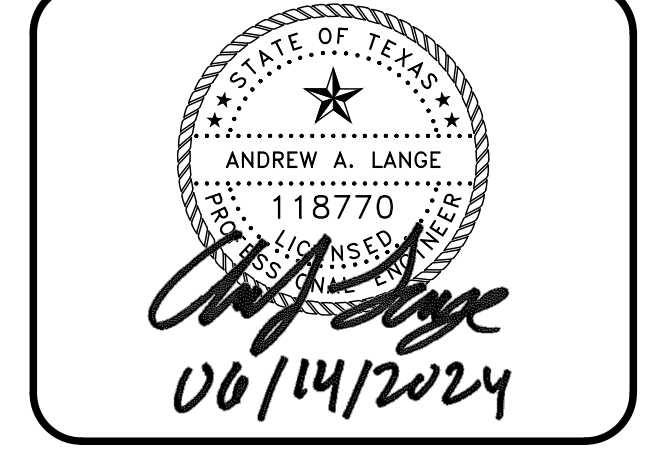
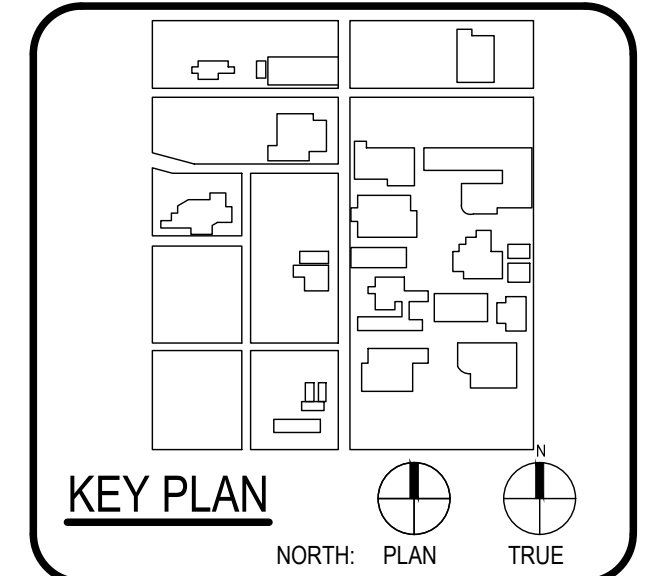
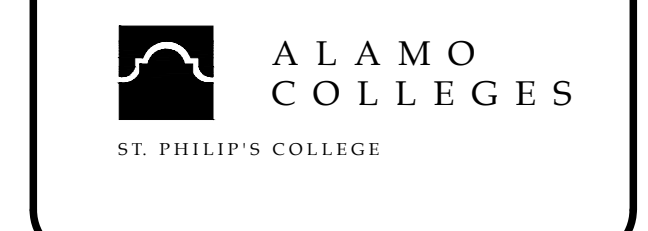


**ARCHITECT** SAN ANTONIO PBK Architects, Inc.  
601 N.W. Loop 410, Suite 400  
San Antonio, TX 78216  
210-829-0123 P  
210-829-0578 F  
TX Firm BR 1608

**ASSOCIATE ARCHITECT** BA & ARCHITECTS  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TEXAS 78201  
210-461-9999  
LINDY & HARRIS ENGINEERING  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TEXAS 78201  
210-461-9999  
PROVIDOR  
MEAN PROFESSIONALS  
1111 N. LOOP WEST  
SUITE 1000  
SAN ANTONIO, TEXAS 78201

**WFAC Black Box Addition PKG 1**

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



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

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER

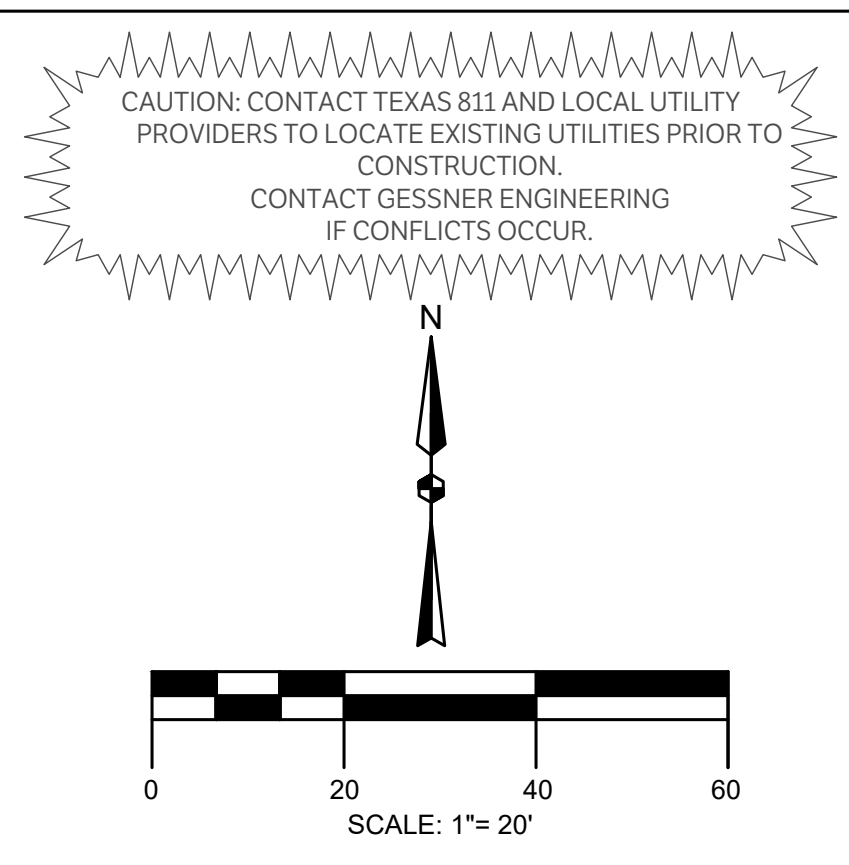
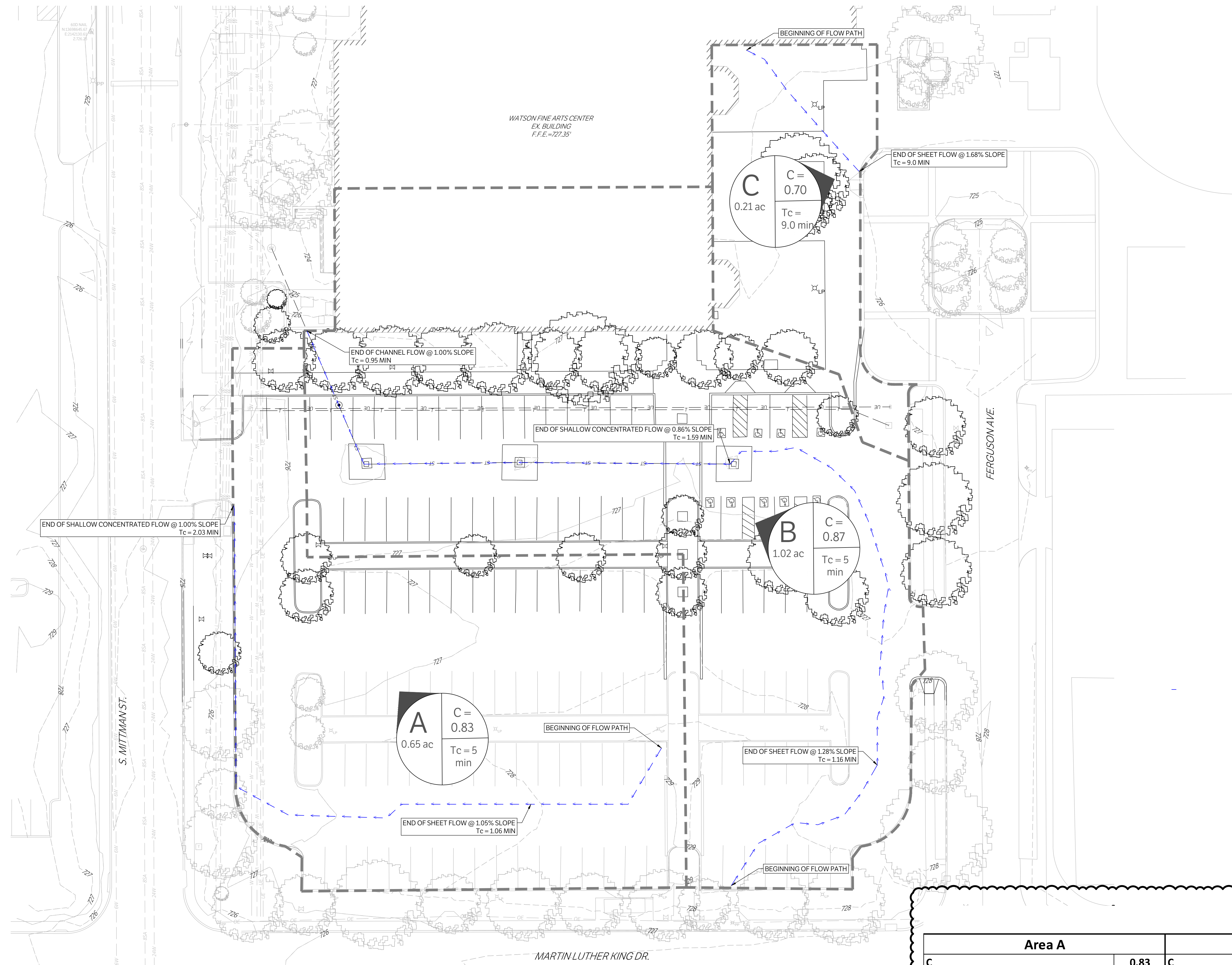
**CRAWLSPACE**

**C401**



# ISSUE FOR PERMIT

Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.CORP.



**LEGEND**

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

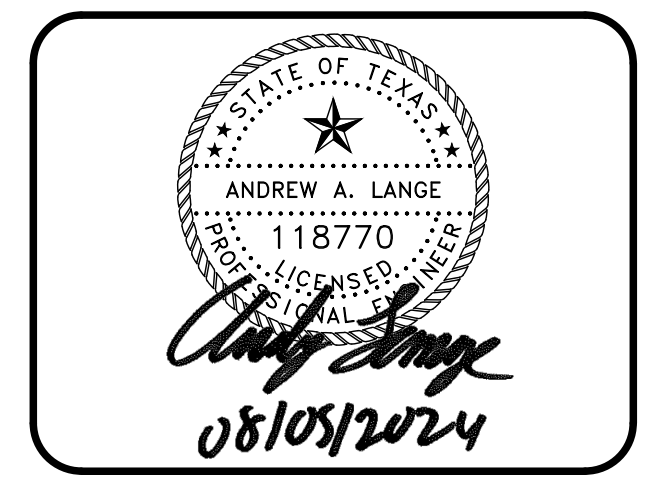
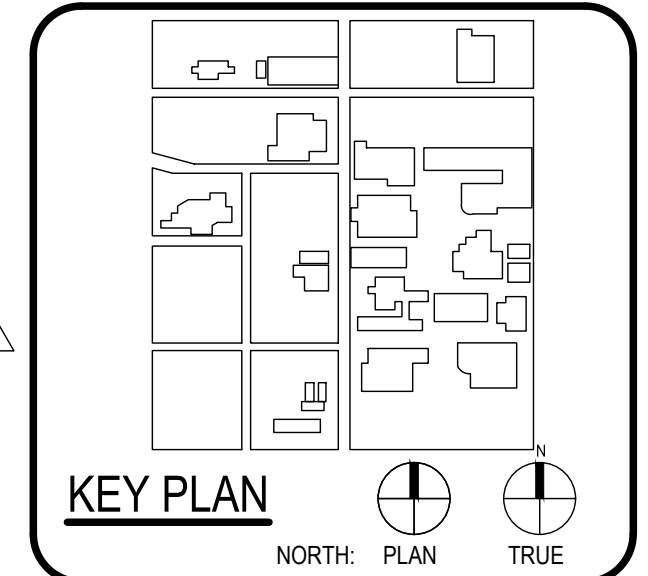
**CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.**  
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.



**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
DRAWING HISTORY		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</b>
					<b>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</b>
					<b>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</b>
					<b>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

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

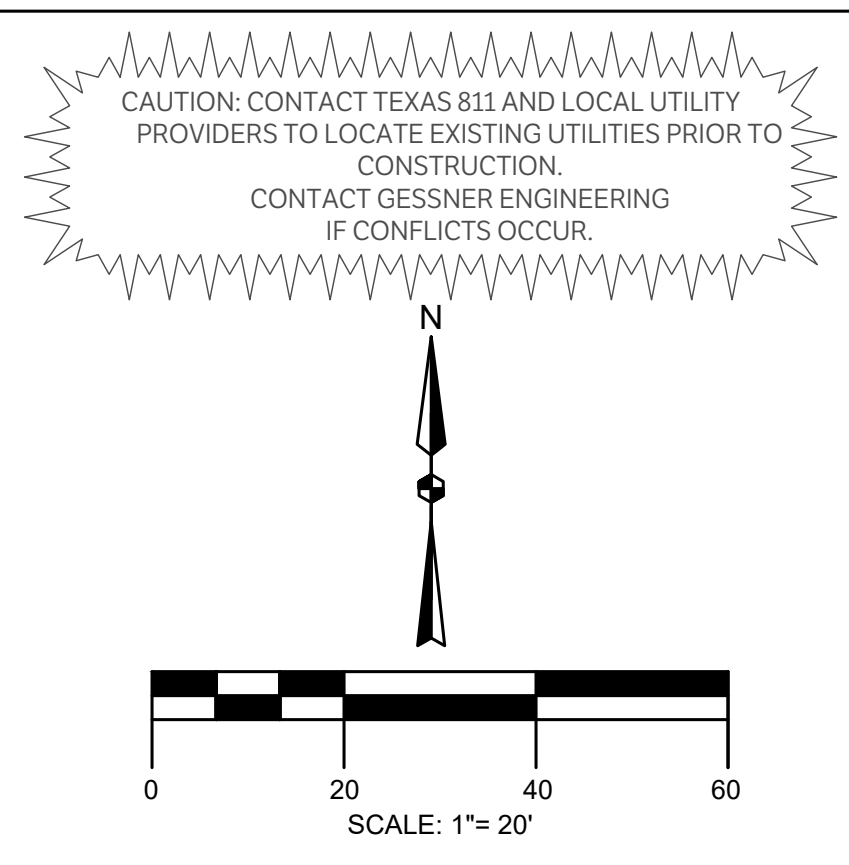
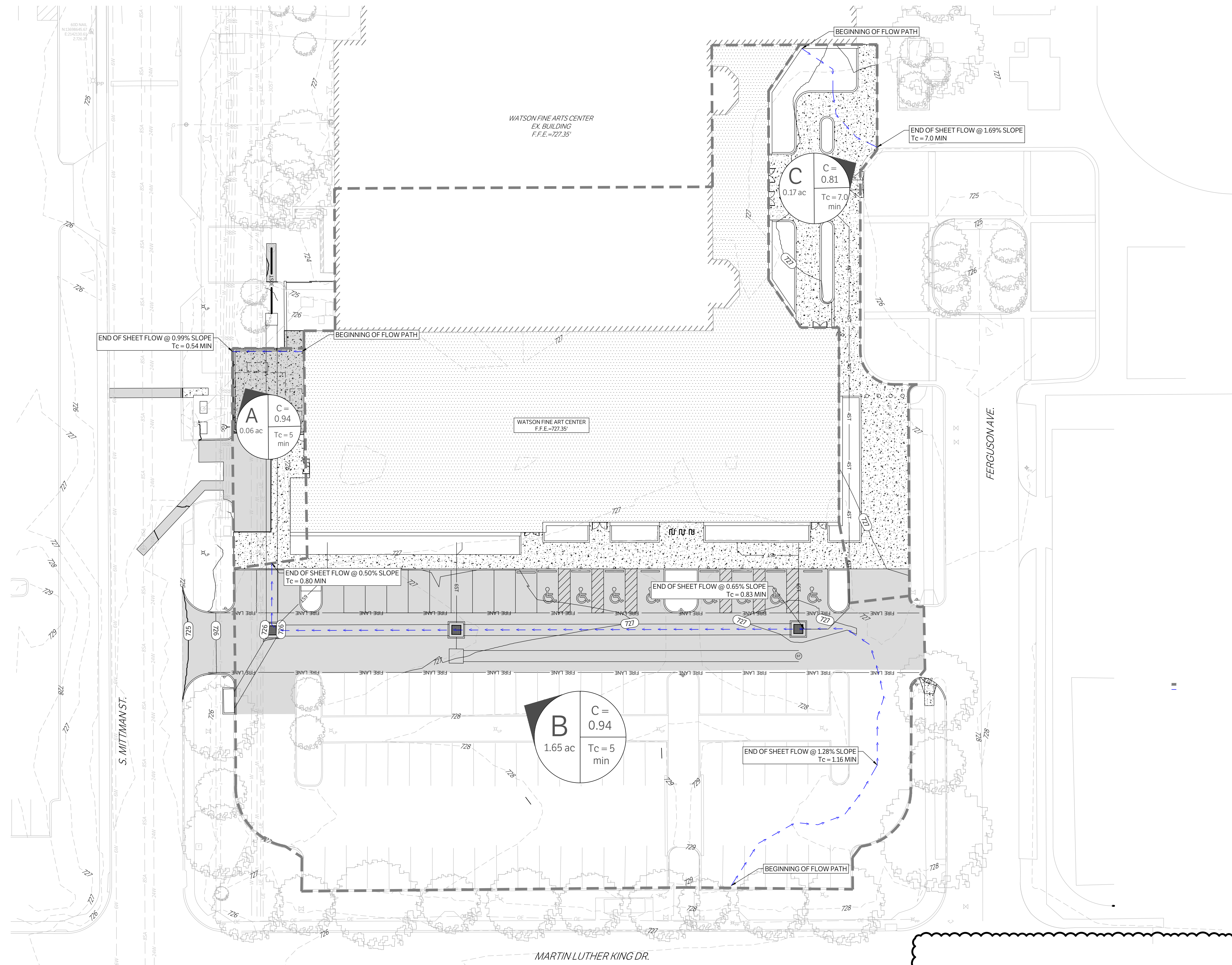
Pre					
Area A		Area B		Area C	
<b>C</b>	<b>0.83</b>	<b>C</b>	<b>0.87</b>	<b>C</b>	<b>0.70</b>
<b>Area (ac)</b>	<b>0.65</b>	<b>Area (ac)</b>	<b>1.02</b>	<b>Area (ac)</b>	<b>0.21</b>
<b>Flow Length (ft)</b>	<b>315.12</b>	<b>Flow Length (ft)</b>	<b>479.97</b>	<b>Flow Length (ft)</b>	<b>70.70</b>
<b>SCS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

CHECKED BY: SH & AL  
DRAWN BY: JC



# ISSUE FOR PERMIT

Sheet Grids Template  
Z400  
FOR BLUEBAM LABELING.COR.



**LEGEND**

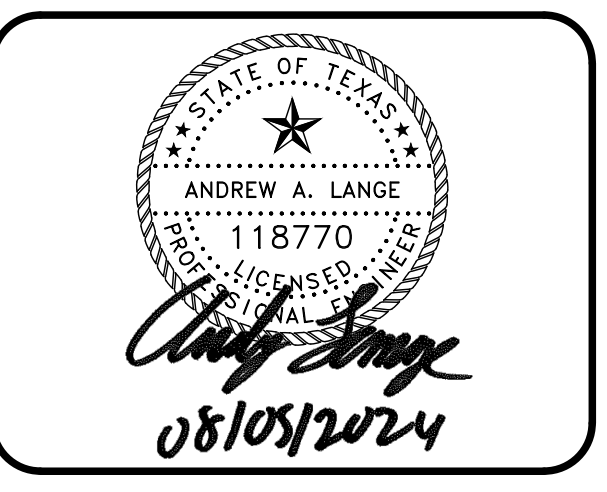
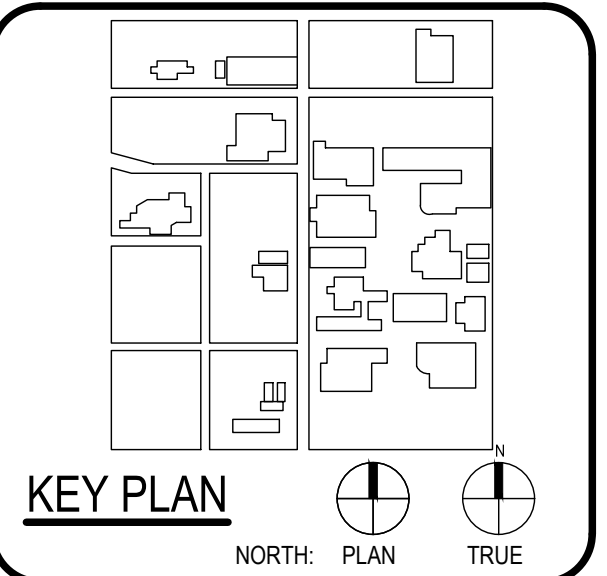
- DRAINAGE AREA BOUNDARY
- (A1) DRAINAGE AREA LABEL AND FLOW DIRECTION
- PROPERTY LINE
- - - - - EXISTING CONTOURS
- - - - - PROPOSED CONTOURS
- FLOW PATH

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



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

WFAC Black Box Addition PKG 1



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

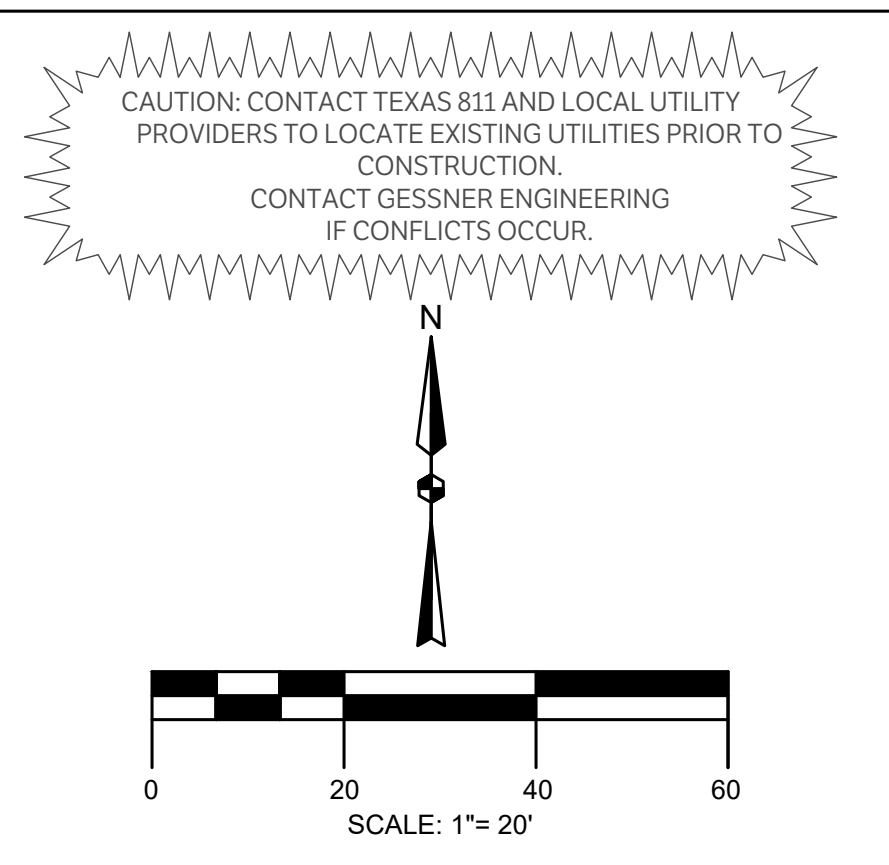
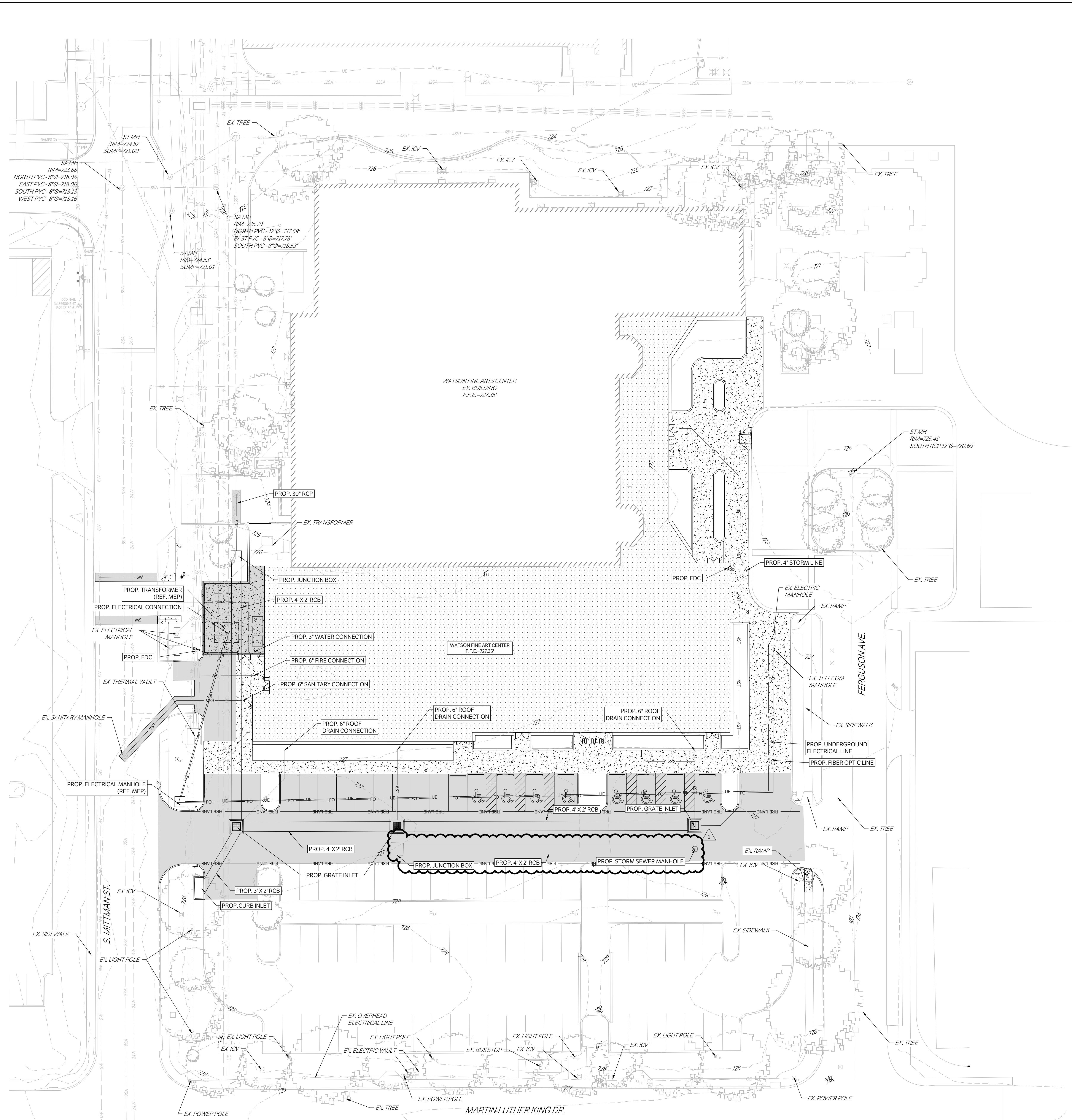
Time (minutes)	Atlas 14 Rainfall Intensity (in/hr)			
	1 - YEAR	5 - YEAR	25 - YEAR	100 - YEAR
5	5.29	7.88	11.00	13.79
6	5.07	7.45	10.43	13.08
7	4.86	7.11	9.95	12.49
8	4.64	6.81	9.54	11.97
9	4.43	6.54	9.17	11.49
10	4.21	6.30	8.82	11.05

Post			
Area A	Area B	Area C	
<b>C 0.94</b>	<b>C 0.91</b>	<b>C 0.81</b>	
<b>Area (ac) 0.06</b>	<b>Area (ac) 1.65</b>	<b>Area (ac) 0.17</b>	
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	
<b>Time of Concentration (min) 0.54</b>	<b>SCS Shallow Concentrated Flow (ft) 81.23</b>	<b>SCS Sheet Flow (ft) 32.46</b>	
*COSA requires min TOC of 5 min*			
PAVEMENT			
Slope (%)	0.65	Manning's Roughness	0.011
Velocity (ft/s)	1.64	Flow Time (min)	0.40
Flow Time (min)	0.83	<b>Time of Concentration (min) 8.00</b>	
*COSA requires min TOC of 5 min*			
<b>SCS Channel Flow (ft) 224.55</b>			
Slope (%)	0.50		
Manning's Roughness	0.011		
Velocity (ft/s)	5.00		
Flow Time (min)	0.74		
<b>SCS Channel Flow (ft) 25.67</b>			
Slope (%)	0.50		
Manning's Roughness	0.011		
Velocity (ft/s)	7.00		
Flow Time (min)	0.06		
<b>Time of Concentration (min) 2.95</b>			
*COSA requires min TOC of 5 min*			

CHECKED BY: SH & AL  
DRAWN BY: JC



# ISSUE FOR PERMIT



**LEGEND**

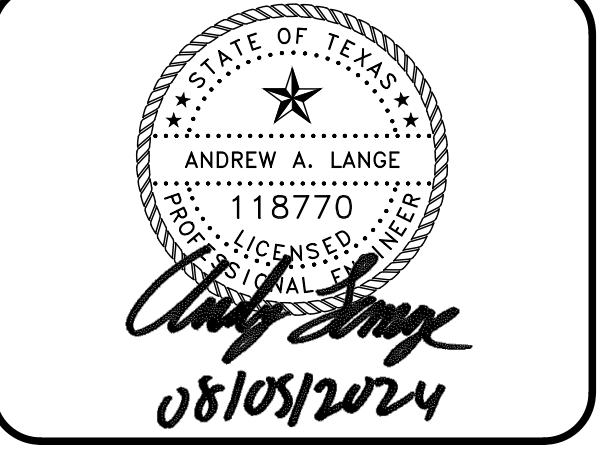
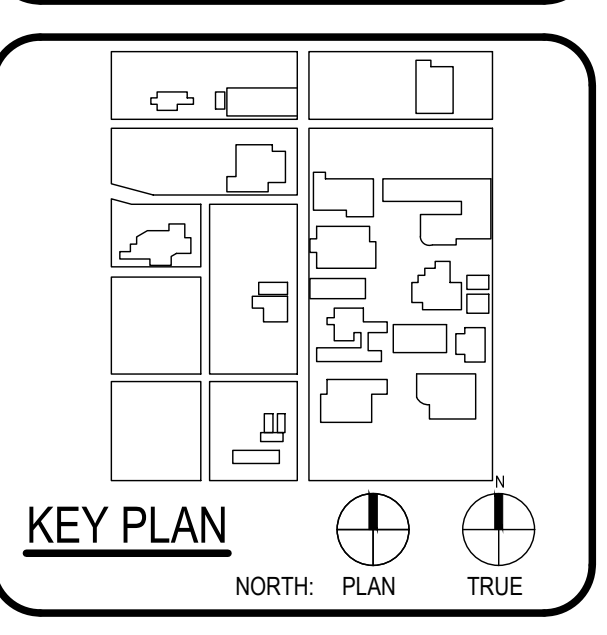
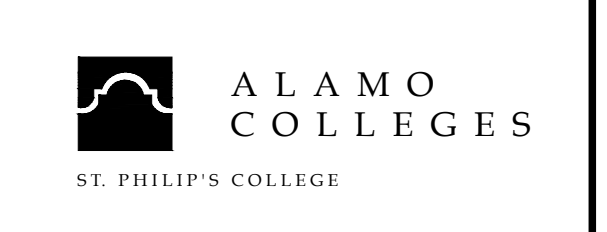
[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	REF. STRUCTURAL
[Symbol]	PROPOSED 4" CONCRETE SIDEWALK
[Symbol]	PROPOSED BUILDING
[Symbol]	EXISTING PAVEMENT EDGE
[Symbol]	PROPERTY LINE
[Symbol]	EXISTING EASEMENT
[Symbol]	PROPOSED EASEMENT
[Symbol]	EXISTING CONTOURS
[Symbol]	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 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. Mittman 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

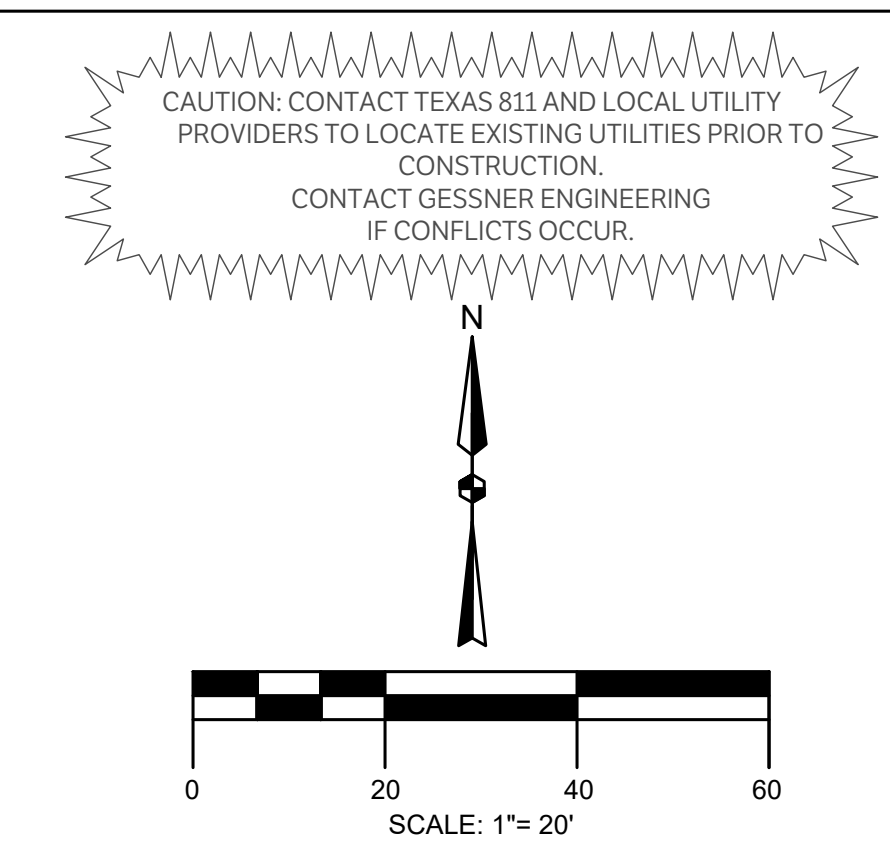
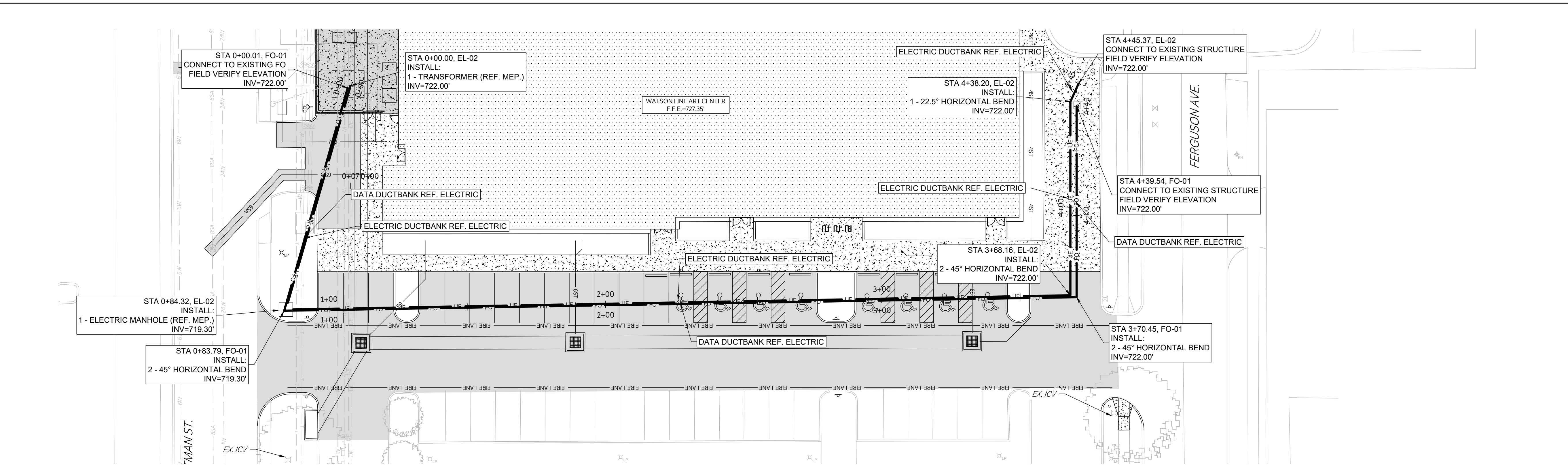
**OVERALL UTILITY**

**C600**

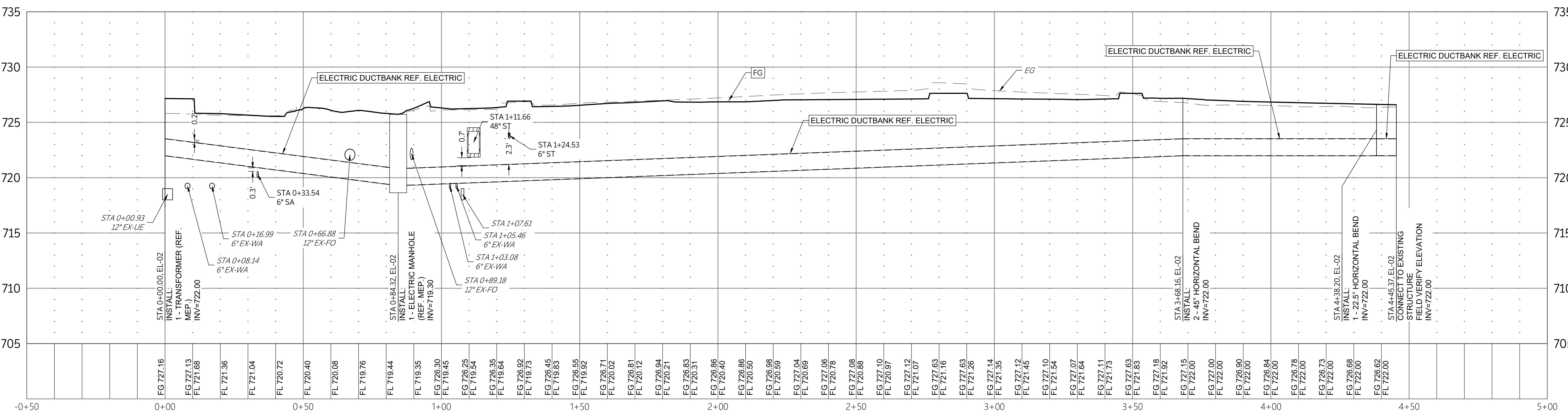


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FOR BLUEBAM LABELING CORR.

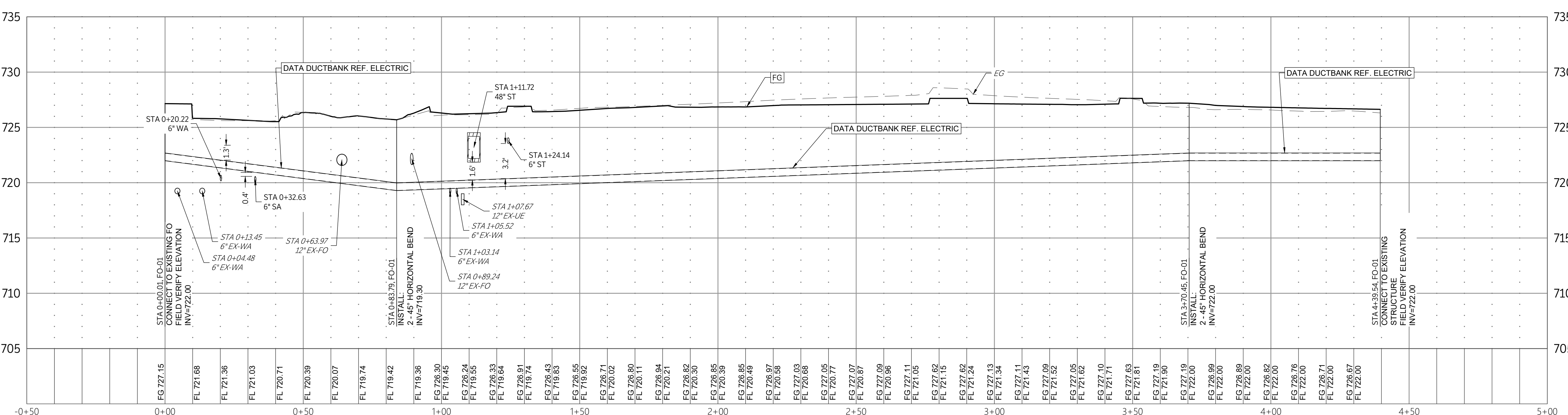
# ISSUE FOR CONSTRUCTION



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



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



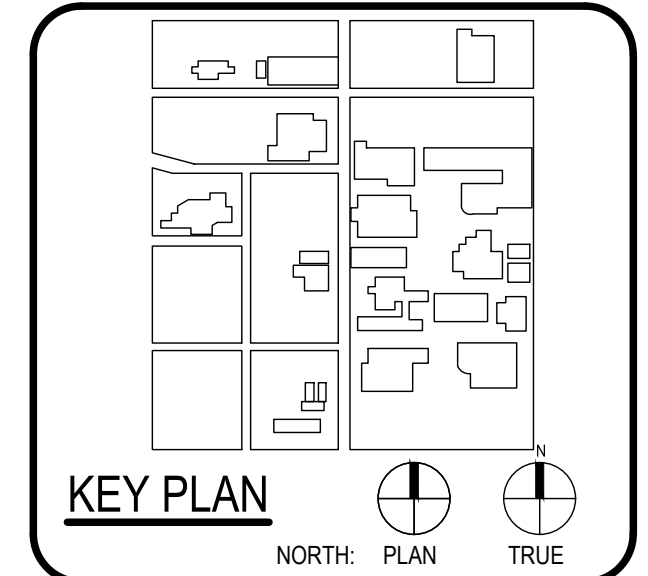
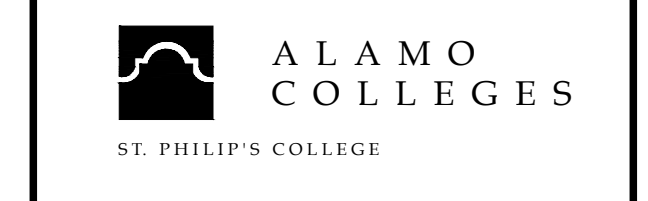
FO-01  
SCALE: 1"=20' H, 1"=5' V

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. & COMMS PLAN & PROFILES

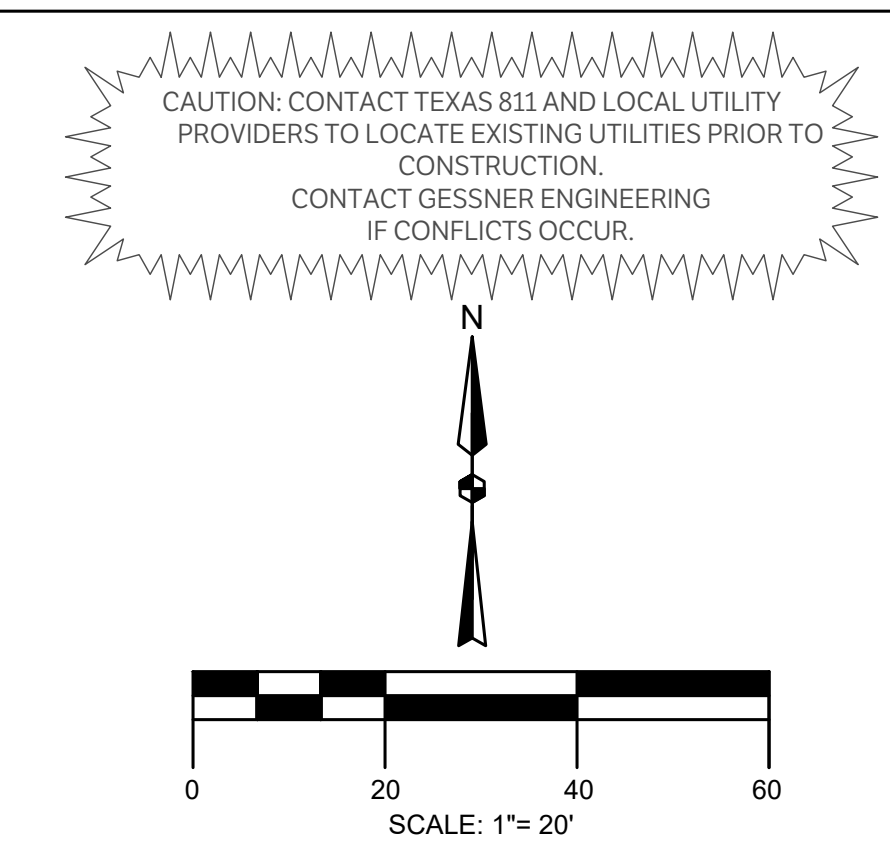
C700

CHECKED BY: SH & AL  
DRAWN BY: JC



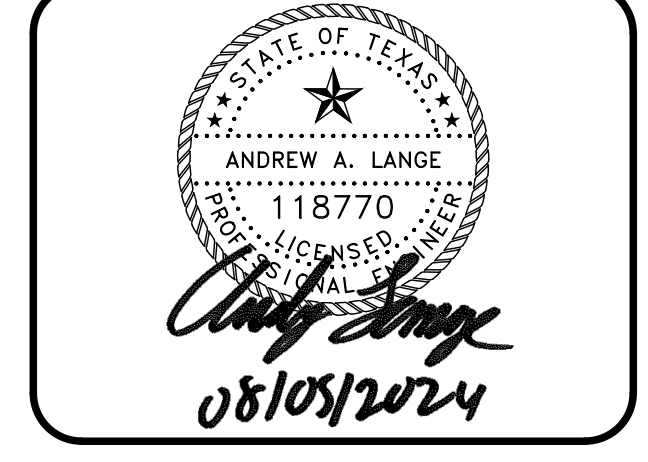
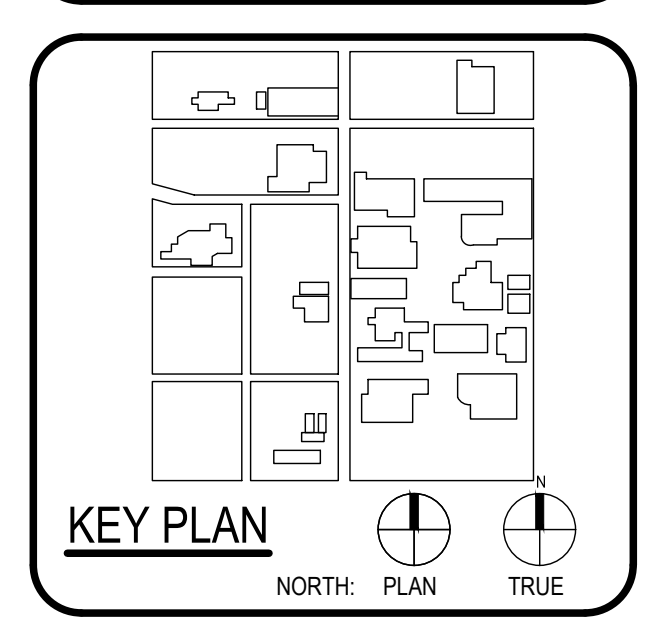
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FOR BLUEBAM LABELING CORR.

# ISSUE FOR PERMIT



ARCHITECT	PBK Architects, Inc.
PROJECT	WFAC Black Box Addition
DATE	08/05/2024
SCALE	1"=20'
PROJECT NO.	230462
DATE	08/05/2024
DESCRIPTION	ADDENDUM 1

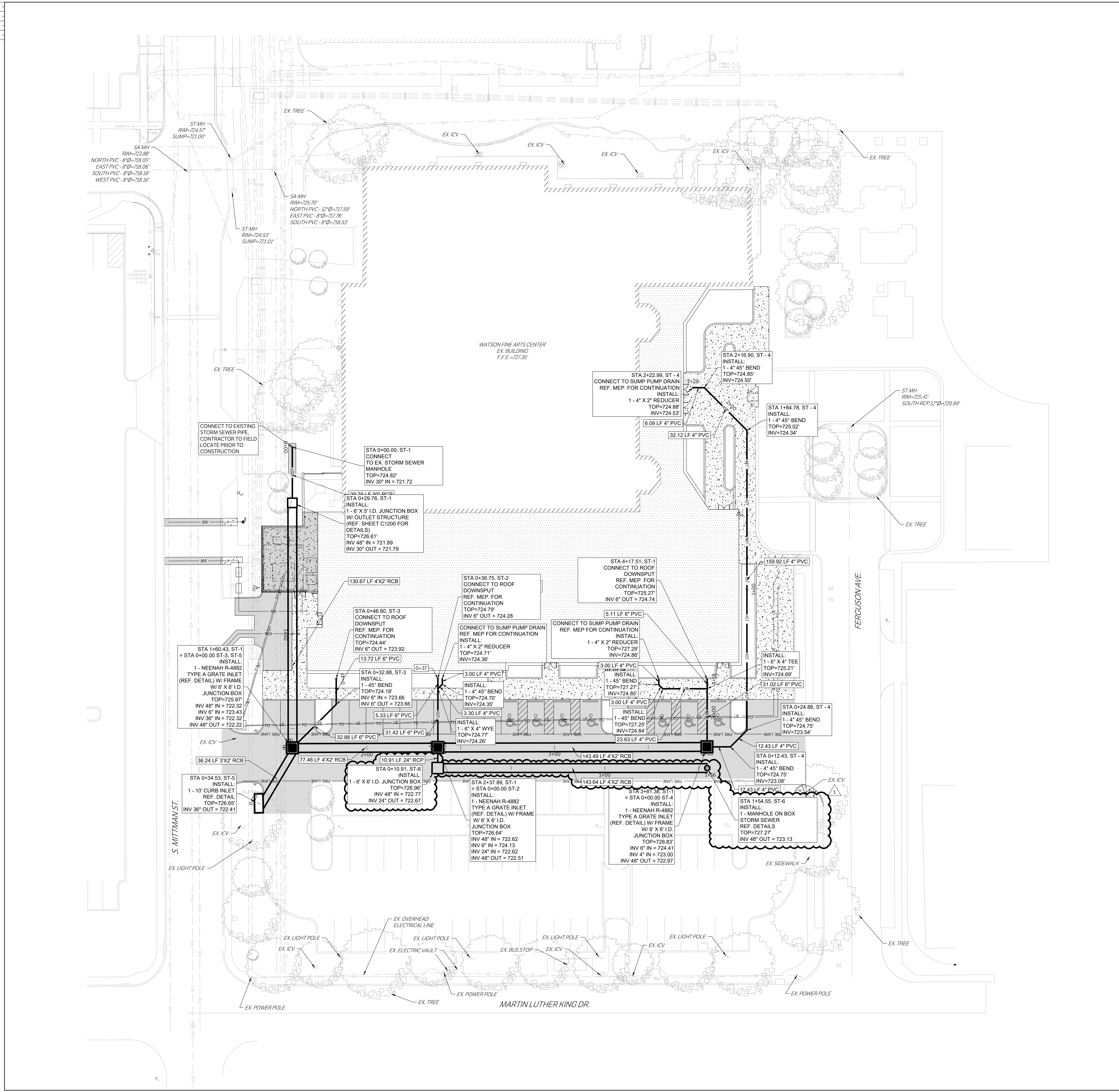
PROPOSED ASPHALT PAVEMENT	PROPOSED STRUCTURAL PAVEMENT	PROPOSED 4" CONCRETE SIDEWALK	PROPOSED BUILDING
EXISTING PAVEMENT EDGE	PROPERTY LINE	EXISTING EASEMENT	PROPOSED EASEMENT
EXISTING CONTOURS	PROPOSED CONTOURS	EX.   PROP. STORM LINE	EX.   PROP. WATER LINE
EX.   PROP. SANITARY SEWER LINE	EXISTING THERMALS	PROPOSED THERMALS	EX.   PROP. GAS LINE
EX.   PROP. DATA/TELECOM	EX.   PROP. UNDERGROUND ELECTRIC	EX.   PROP. FIBER OPTIC	EX.   PROP. OVERHEAD ELECTRIC
EX.   PROP. FIRE HYDRANT	EX.   PROP. WATER METER	EX.   PROP. GATE VALVE	EX. IRRIGATION CONTROL VALVE
PROP. FIRE DEPARTMENT CONNECTION	PROP. POST INDICATOR VALVE	PROP. HOSE LAY	EX.   PROP. SANITARY SEWER MANHOLE
EX.   PROP. SANITARY SEWER CLEANOUT	EX. STORM SEWER MANHOLE	PROP. STORM SEWER CURB INLET	EX.   PROP. LIGHT POLE
PROPOSED PUBLIC ACCESS 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  
C800



CHECKED BY: SH & AL  
DRAWN BY: JC







# ISSUE FOR PERMIT

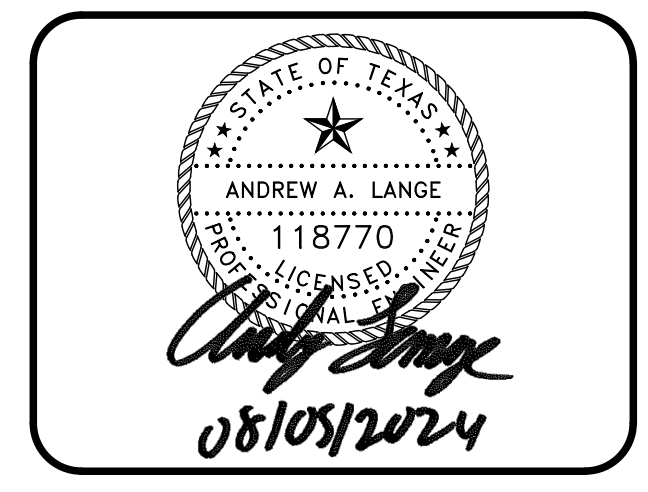
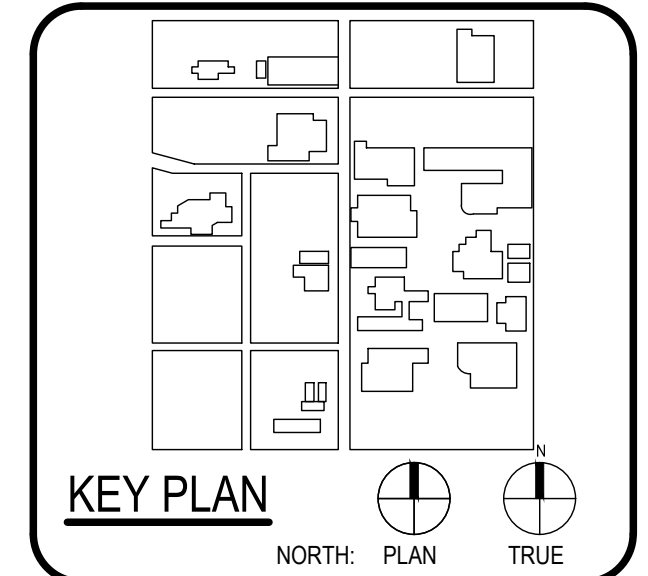
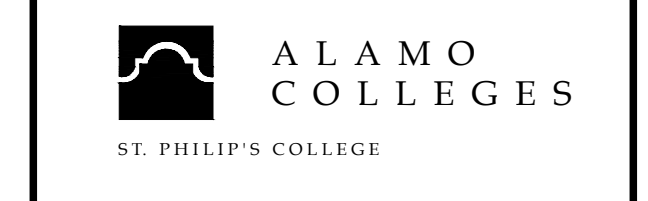
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FOR BLUEBAM LABELING.COR.

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
DESIGNER	BA & ARCHITECTS
LANDSCAPE ARCHITECT	BA & ARCHITECTS
STRUCTURAL ENGINEER	LUNDY & HARRIS ENGINEERING
CIVIL ENGINEER	LUNDY & HARRIS ENGINEERING
PROVIDER	MEASUREMENT SPECIALISTS
MEASURER	MEASUREMENT SPECIALISTS

WFAC Black Box Addition PKG 1

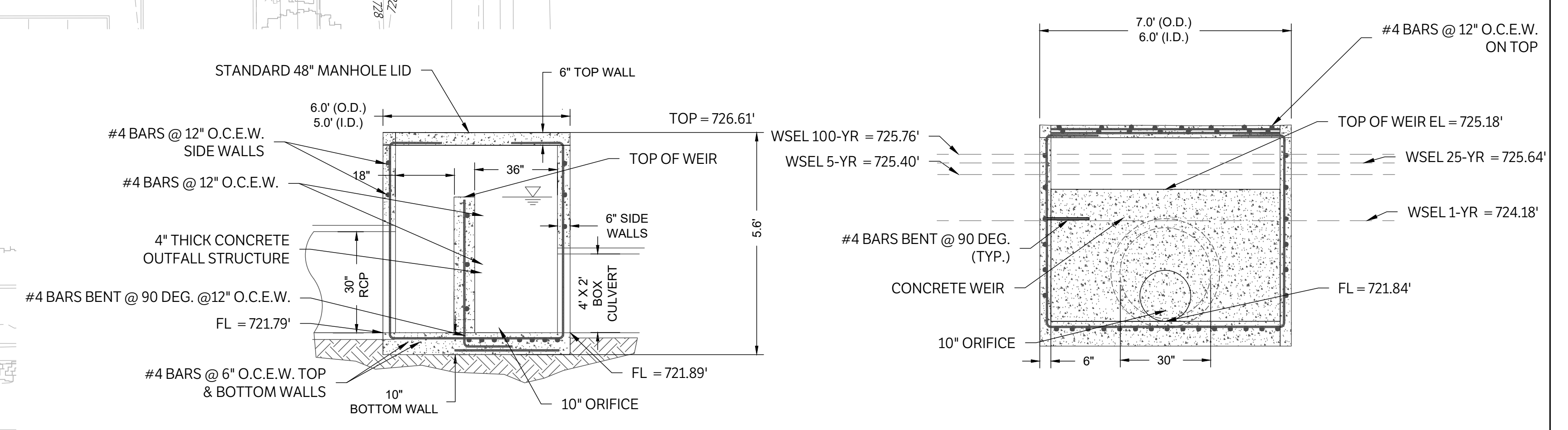
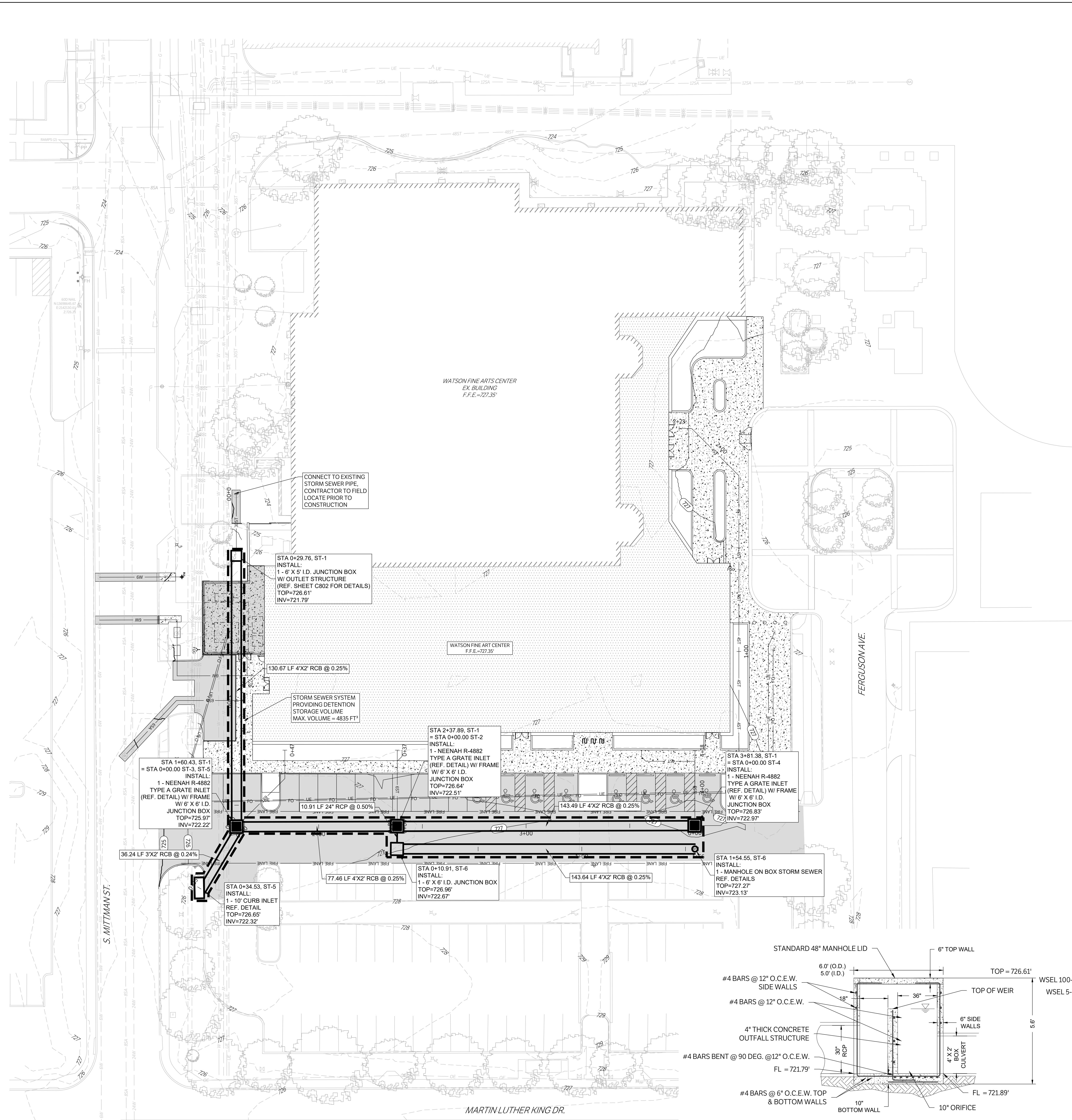


CLIENT	Alamo Colleges	
DATE	2024/06/12	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	ADDENDUM 1	08/05/2024

ISSUE FOR PERMIT  
BUILDING NUMBER

**DETENTION PLAN**

**C802**



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

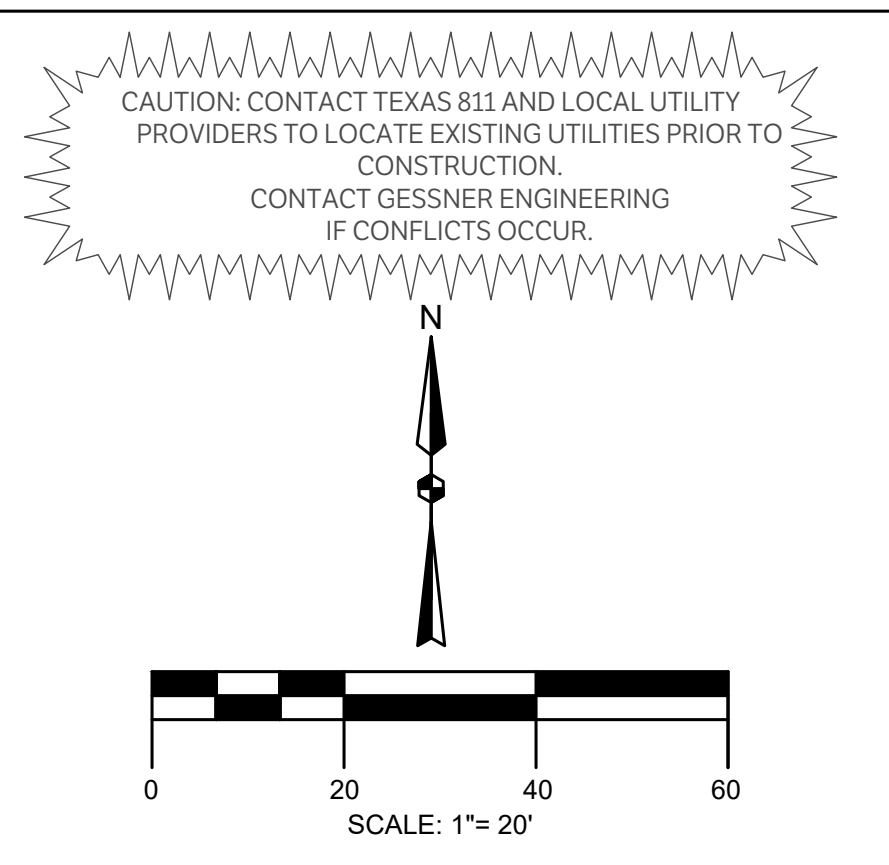
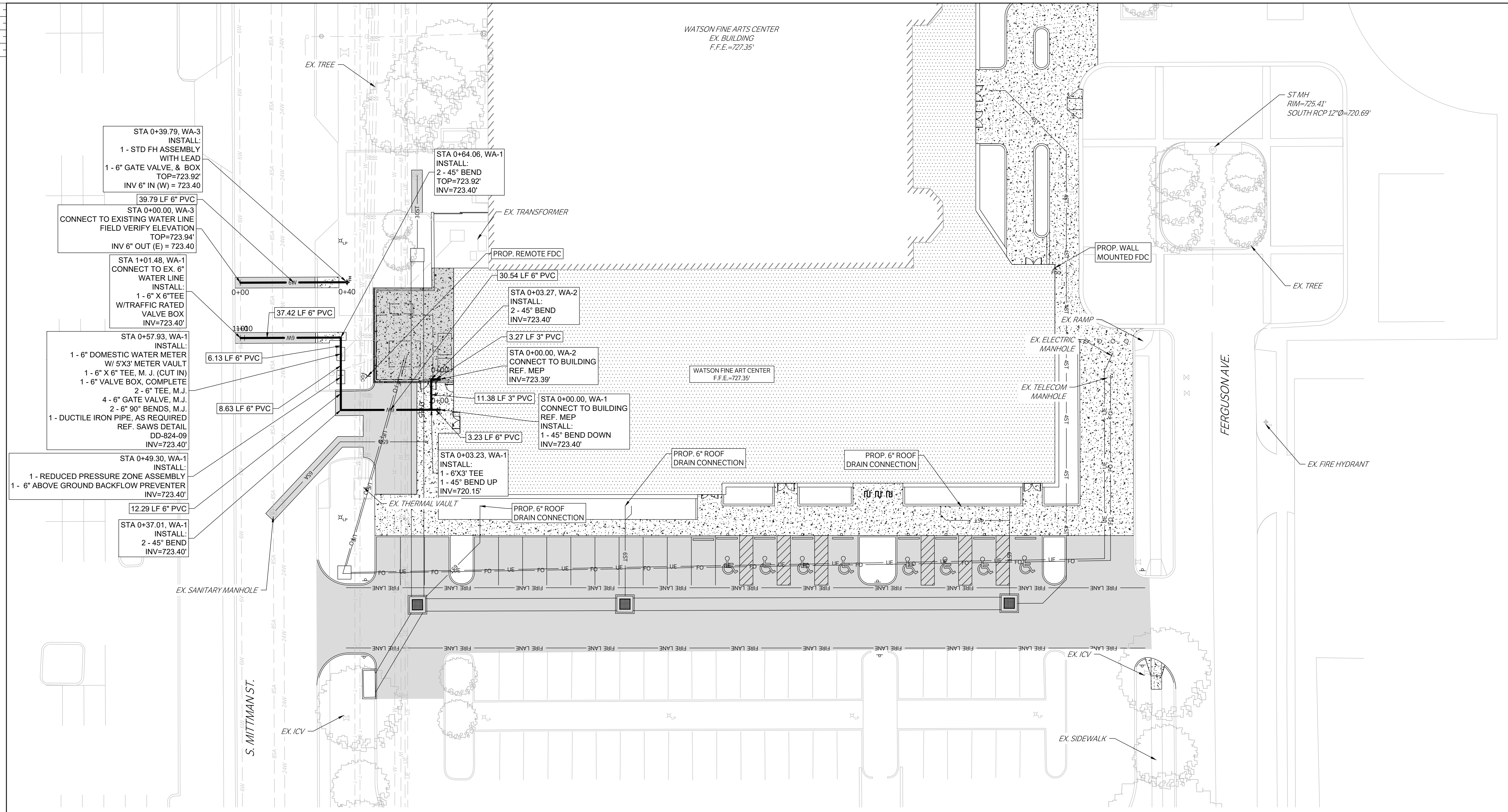
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DRAWN BY: JC





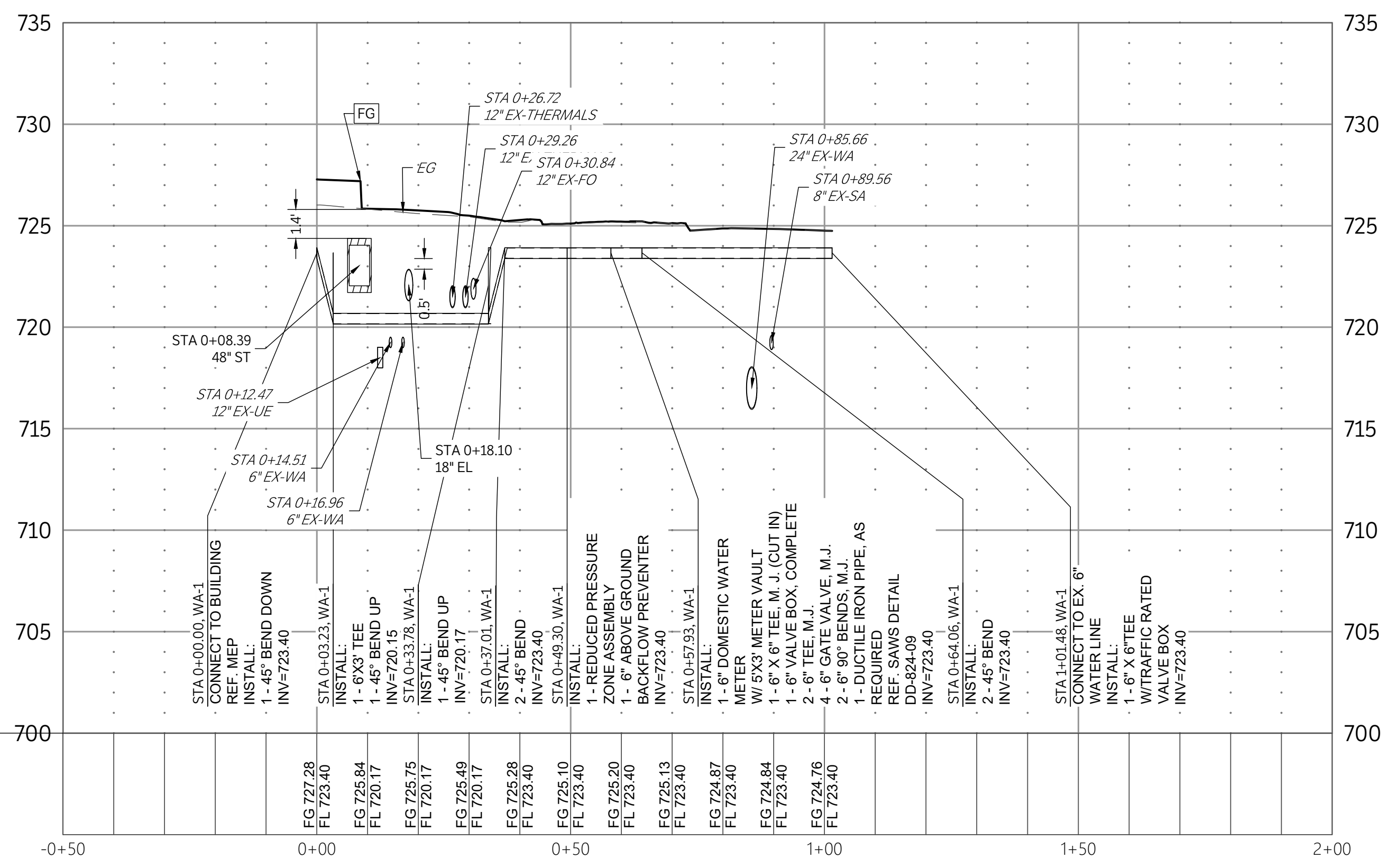


# ISSUE FOR CONSTRUCTION

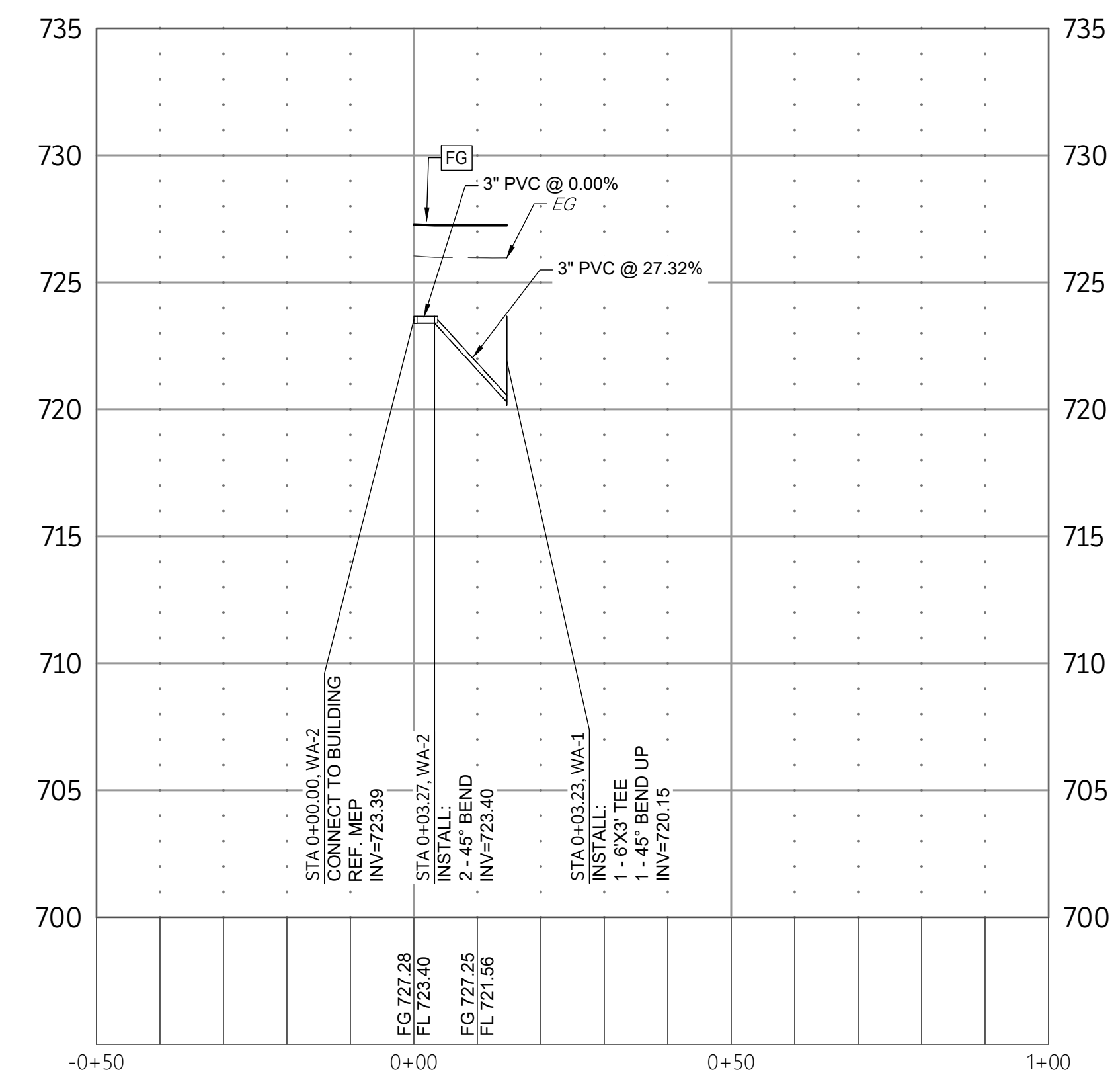


NOTE:  
CONTRACTOR TO FIELD VERIFY EXISTING  
UTILITY INVERTS PRIOR TO CONSTRUCTION

LEGEND	
[Symbol]	PROPOSED ASPHALT PAVEMENT
[Symbol]	PROPOSED STRUCTURAL PAVEMENT
[Symbol]	REF. STRUCTURAL
[Symbol]	PROPOSED 4\"/>



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

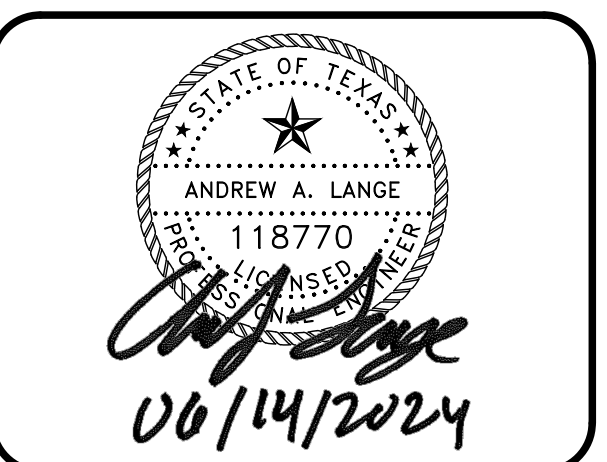
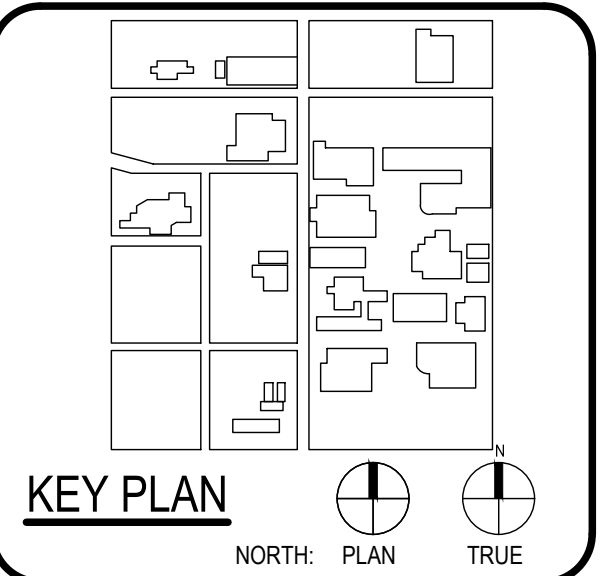


WA-2  
SCALE: 1"=20' H, 1"=5' V



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
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ARCHITECT	LUNY & HARRIS ENGINEERING
1311 S. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	

## WFAC Black Box Addition PKG 1



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

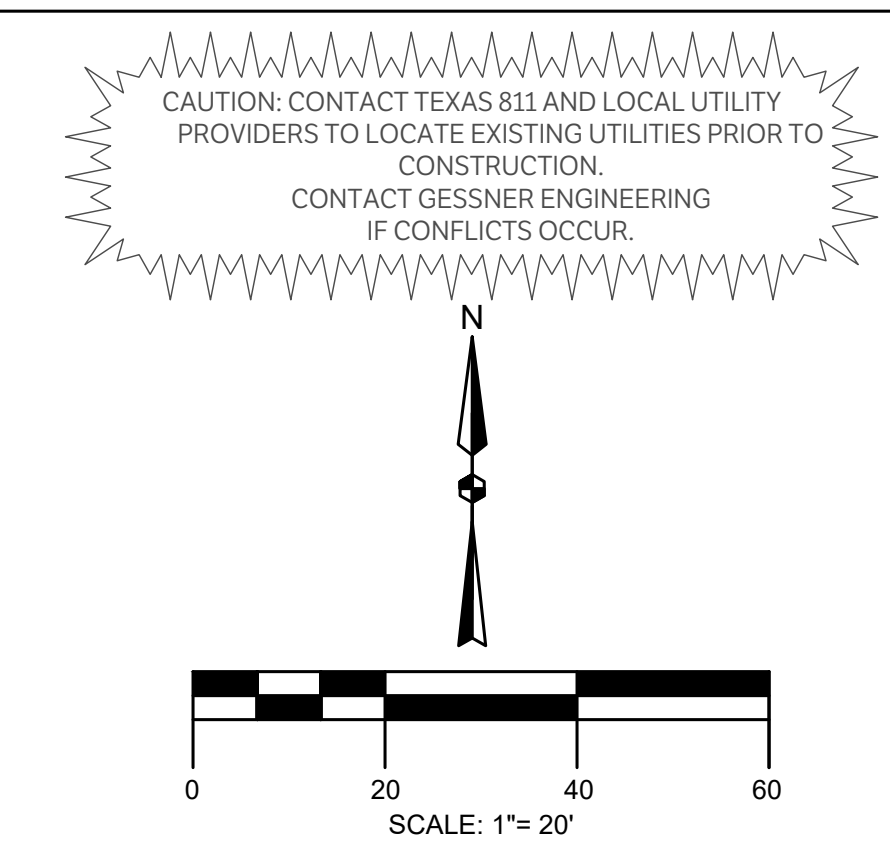
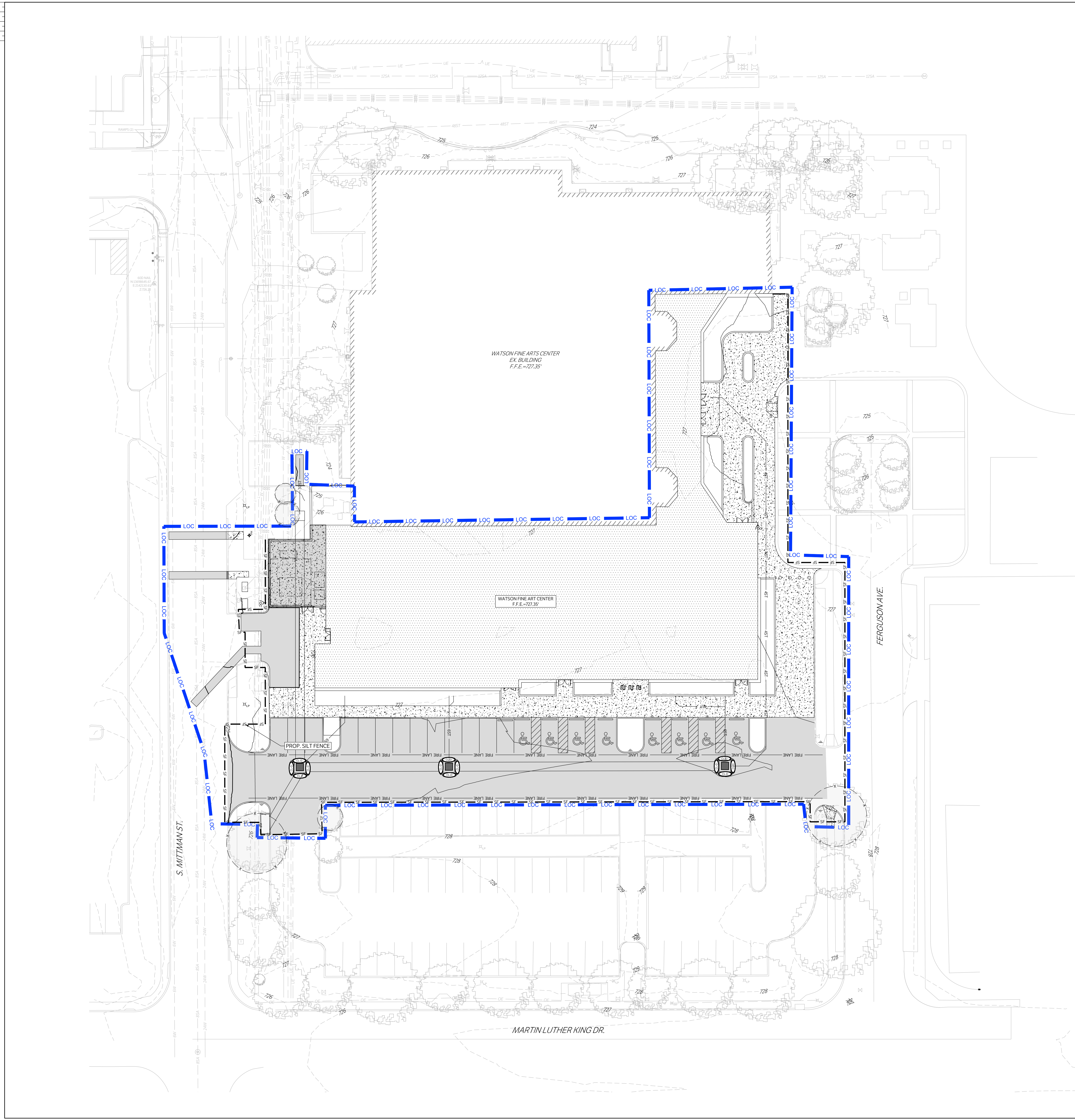
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER

## WATER PLAN & PROFILES

# C1000



# ISSUE FOR CONSTRUCTION



**LEGEND**

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

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

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

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

**SOIL INFORMATION**  
HYDROLOGIC SOIL GROUP: D

**POST DEVELOPED SITE CONDITIONS**  
LAND USE: HIGHER EDUCATION  
ACADEMIC BLDG

**NATURE OF ACTIVITIES**  
ACADEMIC BLDG

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

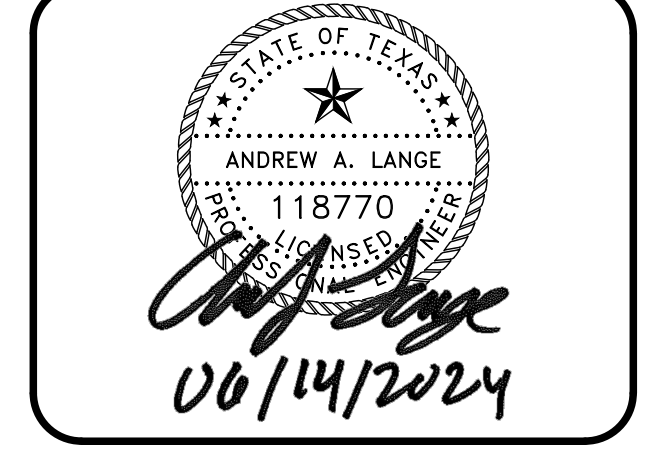
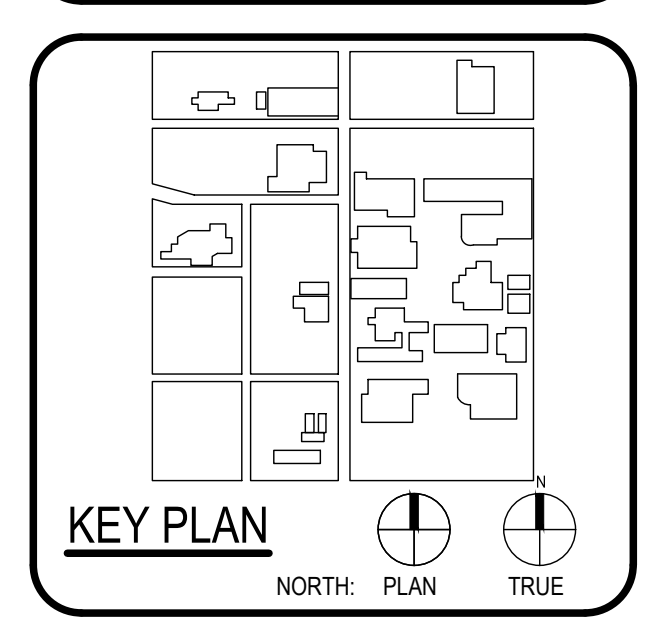
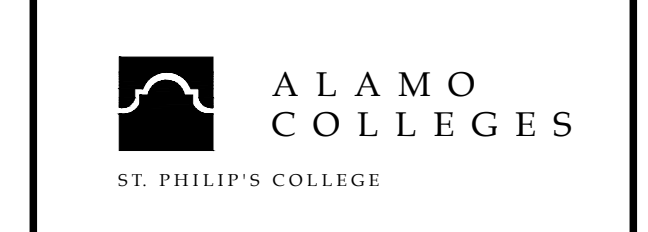
- GENERAL EROSION CONTROL NOTES**
1. ALL UTILITIES AND SERVICE LINES SHOWN ARE TAKEN FROM RECORD INFORMATION SUPPLIED BY THE UTILITY OWNER OR HORIZONTALLY LOCATED BY INDEPENDENT LOCATORS. CONTRACTOR IS RESPONSIBLE TO REPORT ANY CONFLICTS BETWEEN PLAN AND ACTUAL CONDITIONS PRIOR TO CONSTRUCTION. OWNER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



ARCHITECT	PBK Architects, Inc.
601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608	
ASSISTANT ARCHITECT	BA ARCHITECTS
1711 W. Loop West San Antonio, TX 78207 210-441-0000	
LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECTS
1711 W. Loop West San Antonio, TX 78207 210-441-0000	
ENGINEER	LUNY & HARRIS ENGINEERING
1711 W. Loop West San Antonio, TX 78207 210-441-0000	
PROF. TREE SPECIALIST	PROF. TREE SPECIALISTS
1711 W. Loop West San Antonio, TX 78207 210-441-0000	

**WFAC Black Box Addition PKG 1**

ST. PHILLIP'S COLLEGE  
600 S Mittleman St.  
San Antonio, TX 78203  
ISSUE FOR CONSTRUCTION



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

**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER

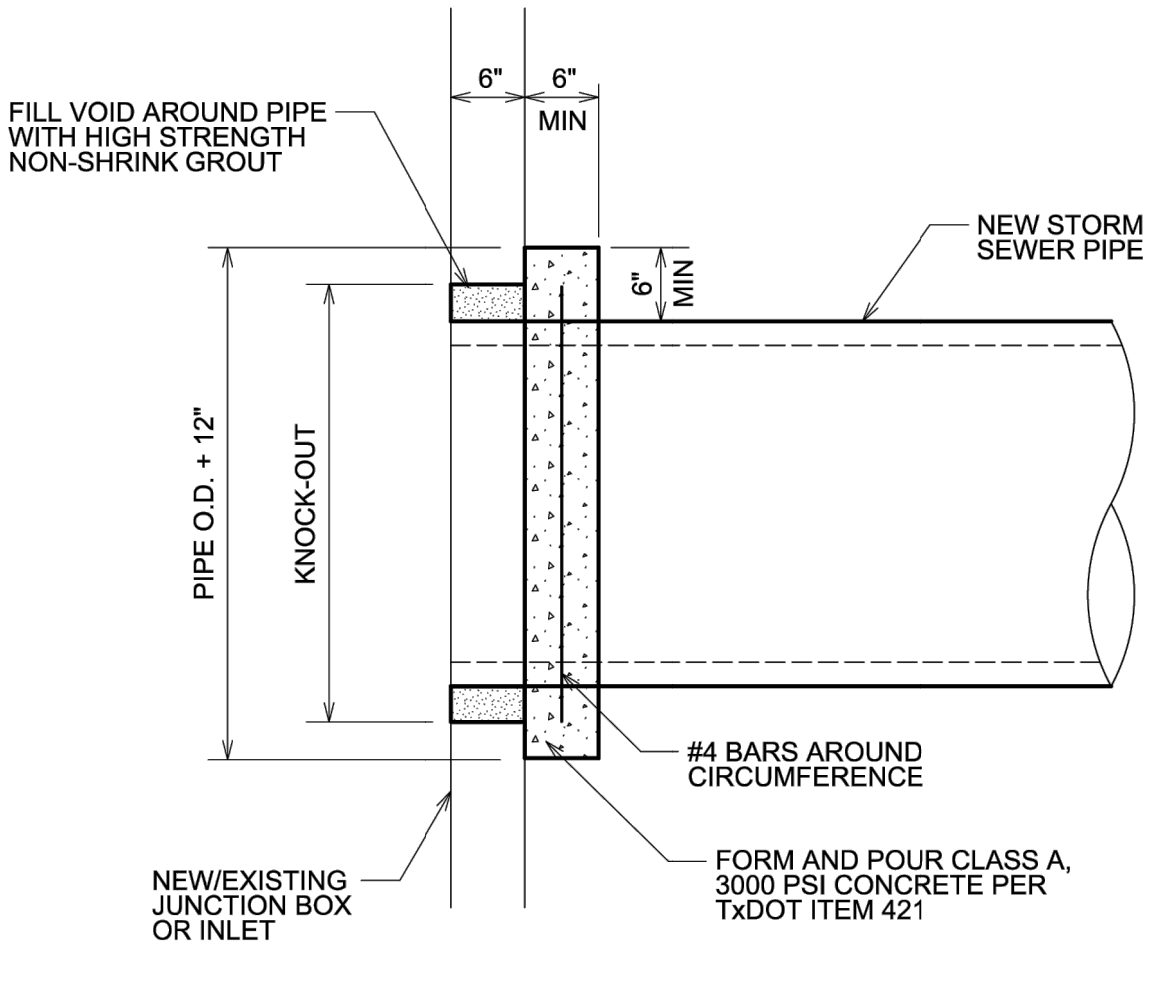
**EROSION CONTROL**

**C1100**

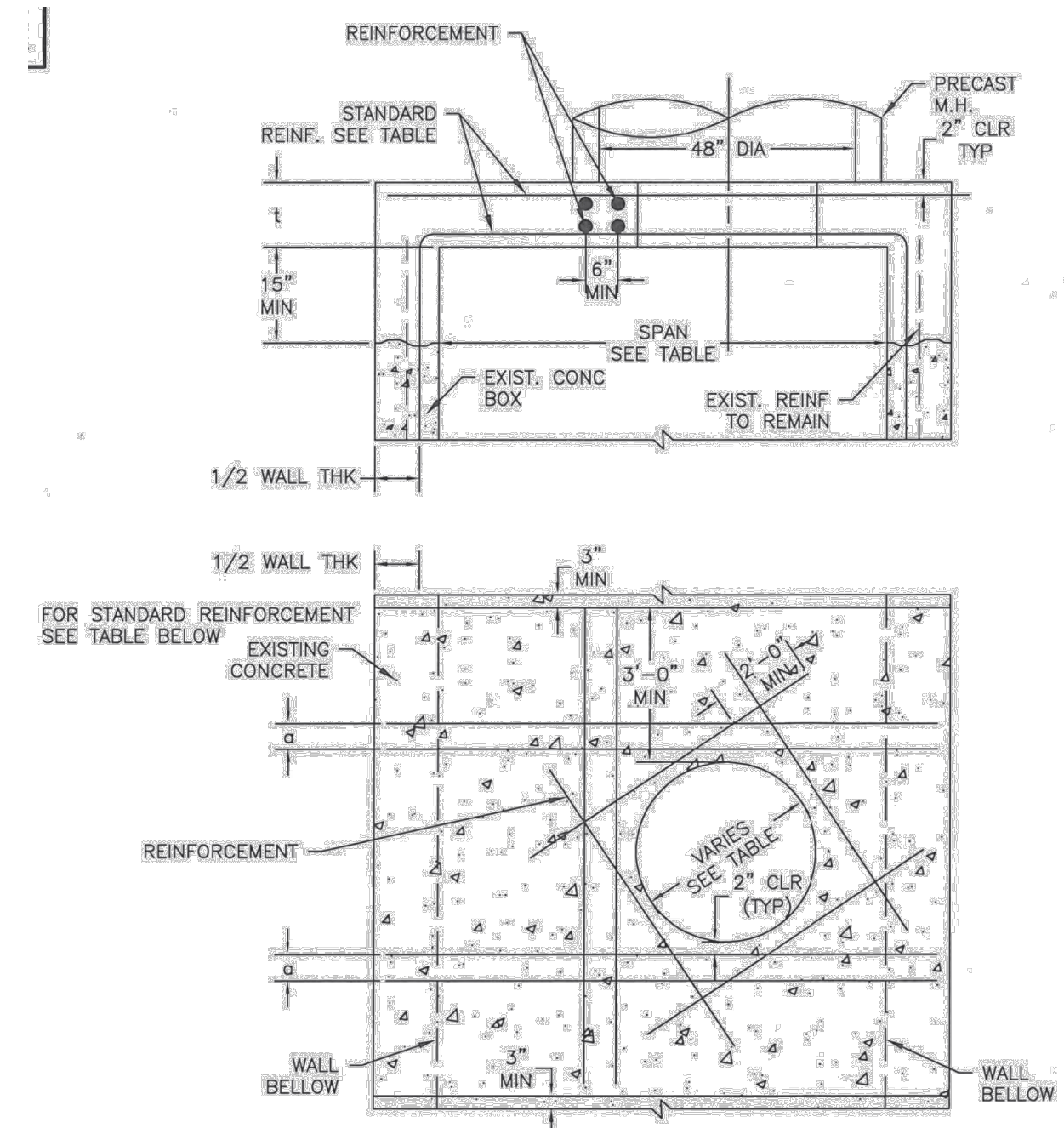


**GENERAL NOTES**

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



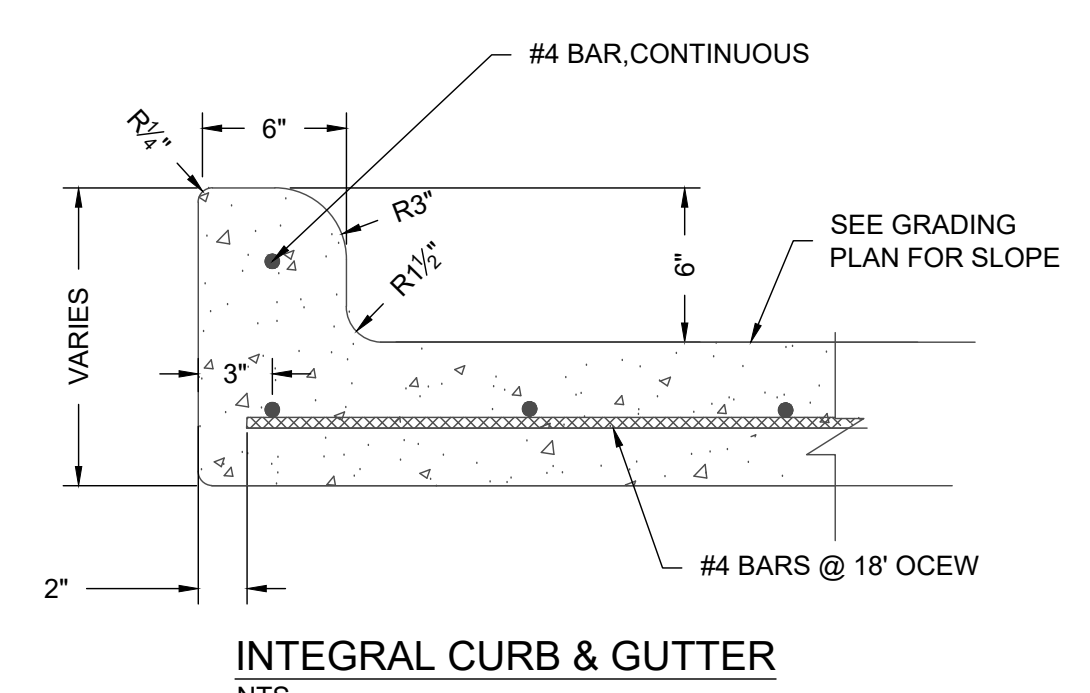
**GRAouted STORM SEWER CONNECTION DETAIL**  
NTS



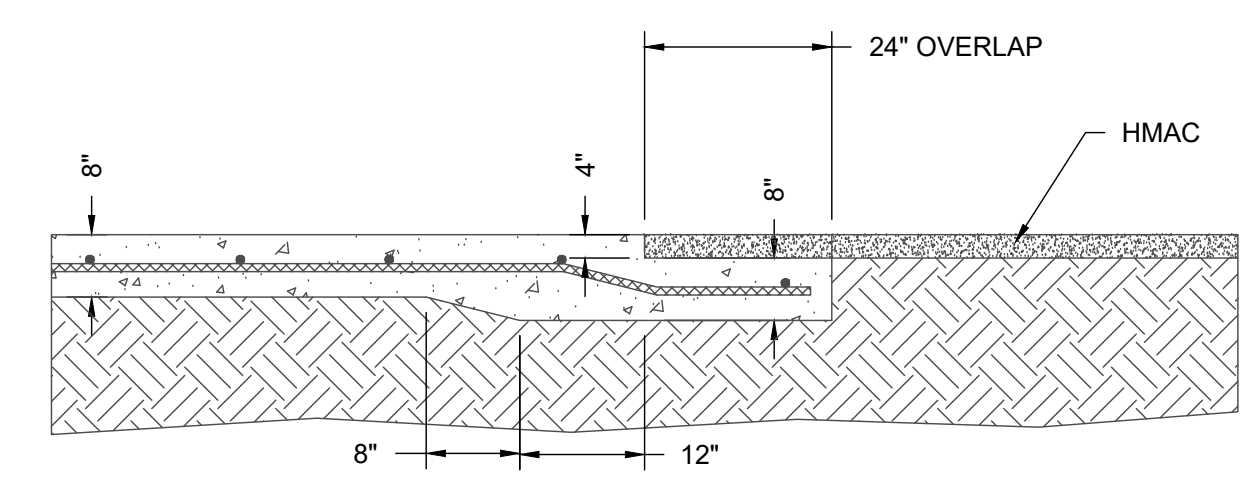
**PROPOSED MANHOLE ON EXISTING BOX STORM SEWER**  
NTS

**TABLE**  
SEWER SIZE VS. OPENING

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

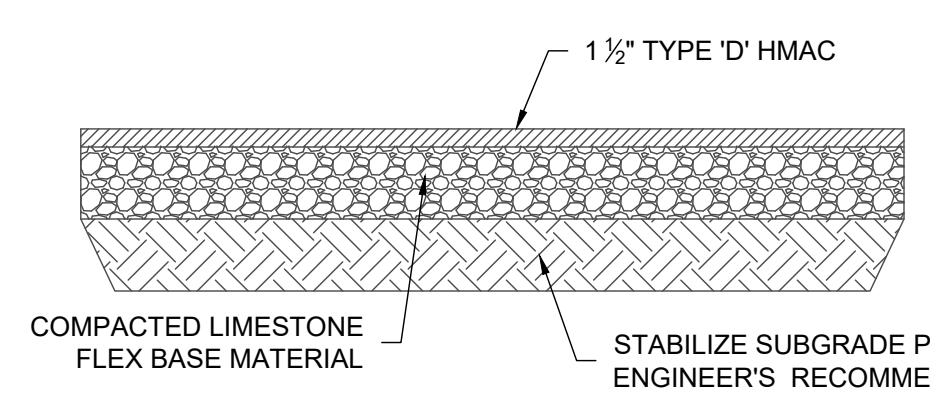


**INTEGRAL CURB & GUTTER**  
NTS

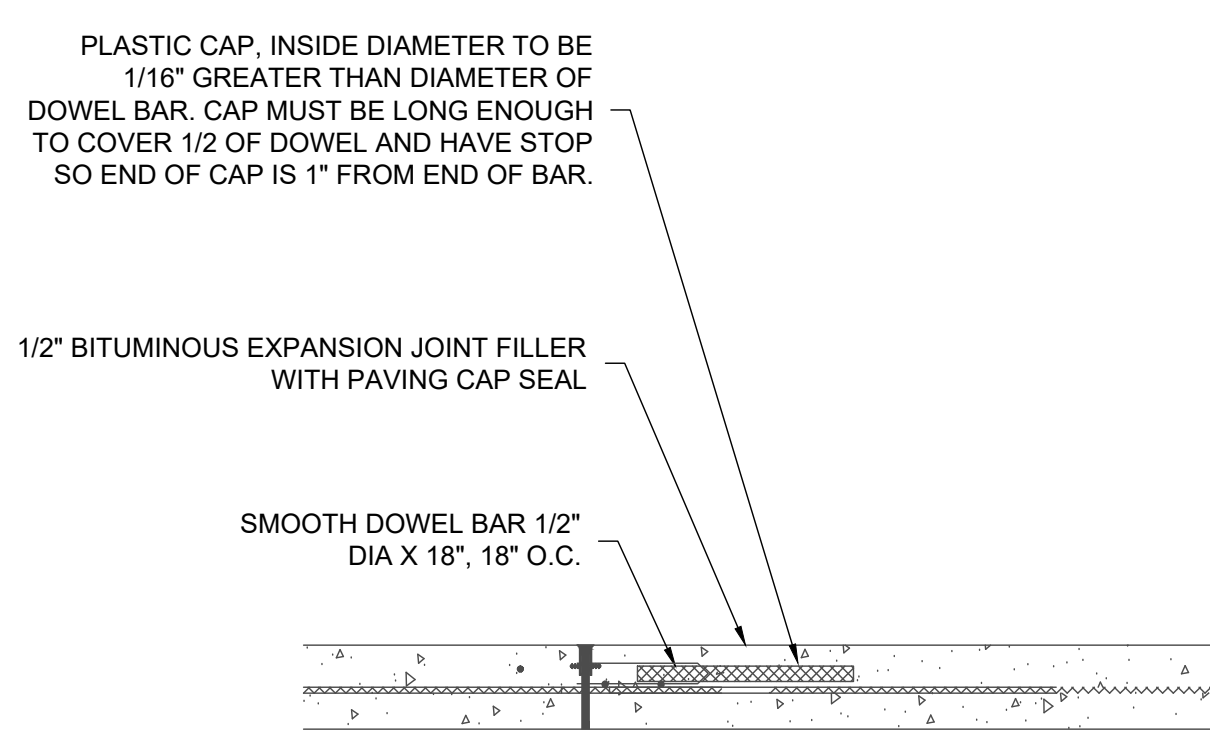


NOTE: SEE PLAN C.X.X FOR JOINT LOCATIONS

**CONCRETE TO ASPHALT J-JOINT**  
NTS

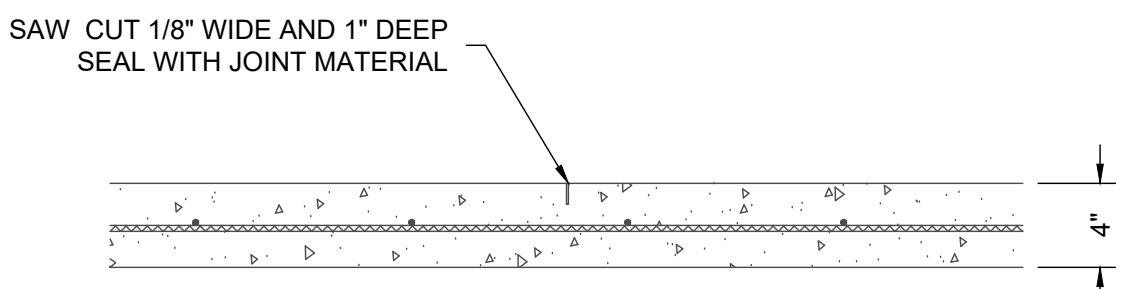


**1 1/2" HMAc PAVEMENT**  
NTS



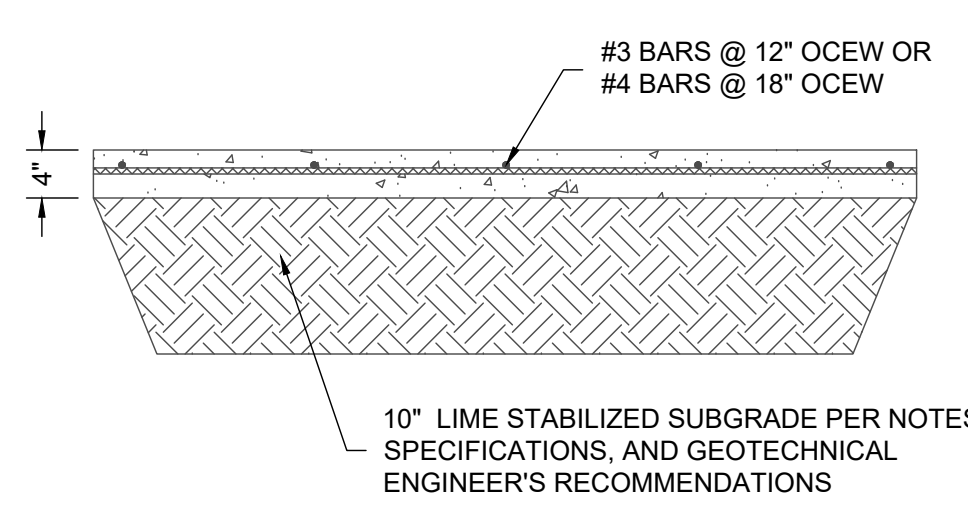
NOTE: SIDEWALK EXPANSION JOINTS SHALL BE INSTALLED AS SHOWN ON PLANS

**SIDEWALK EXPANSION JOINT**  
NTS



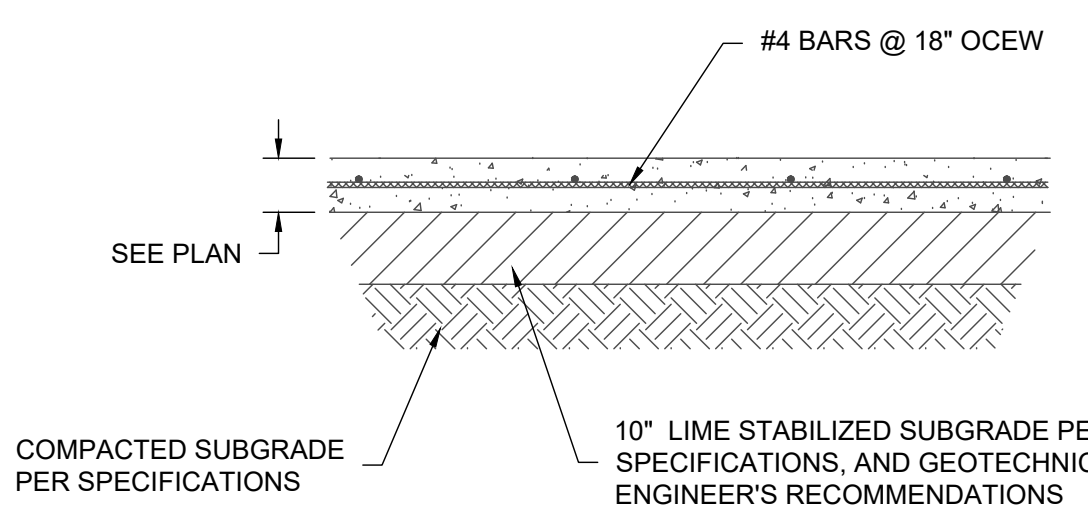
NOTE: SIDEWALK JOINT SPACING PER LANDSCAPE ARCHITECT OR JOINT PLAN. IF NOT SPECIFIED, SPACING SHALL BE EQUAL TO SIDEWALK WIDTH WITH A MAXIMUM SPACING OF 8-FOOT.

**SIDEWALK CONTRACTION JOINT**  
NTS



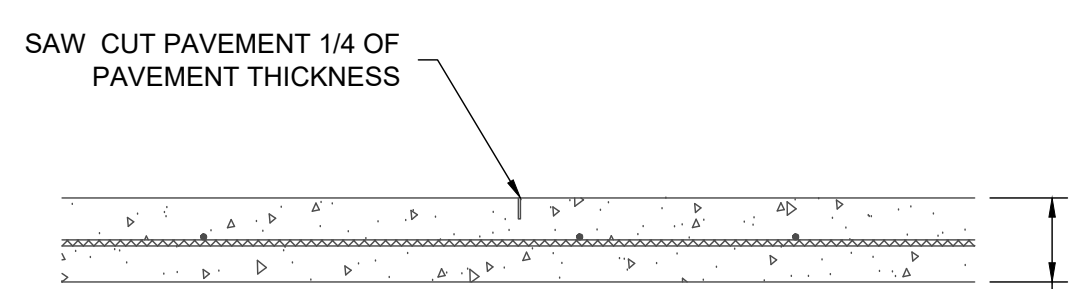
NOTES:  
1. SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.  
2. SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.  
3. SEAL ALL EXPANSION JOINTS WITH SEAL CAP AND CONTROL JOINTS WITH SELF LEVELING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

**SIDEWALK SECTION**  
NTS



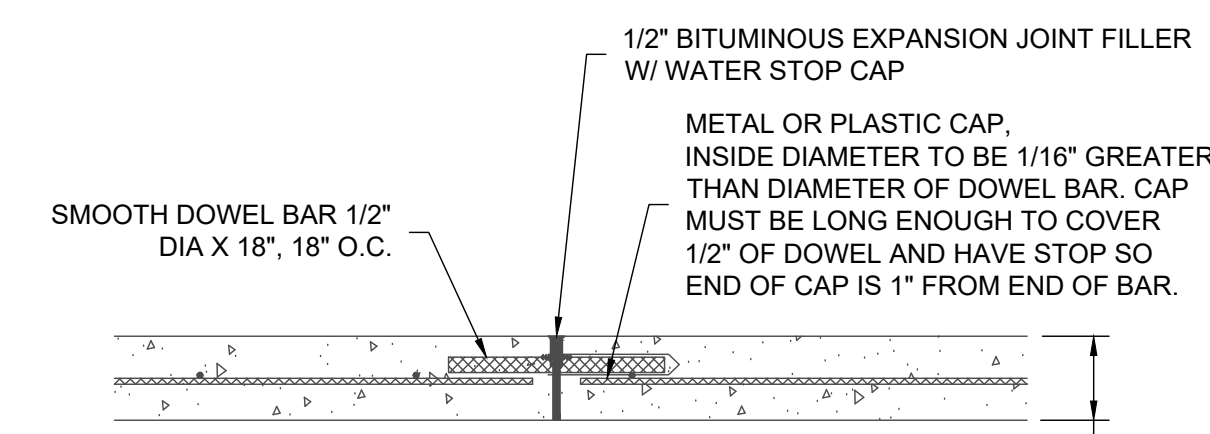
NOTES:  
1. SEE PLAN FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.  
2. DEPTH OF STABILIZATION SHALL BE A MINIMUM OF 6 INCHES OR BASED ON GEOTECHNICAL RECOMMENDATIONS SUBGRADE CONDITIONS.  
3. SUBGRADE STABILIZATION SHALL BE PER GEOTECHNICAL RECOMMENDATIONS AND LIME/CEMENT SERIES BASED ON ACTUAL SUBGRADE CONDITIONS.

**CONCRETE PAVEMENT**  
NTS

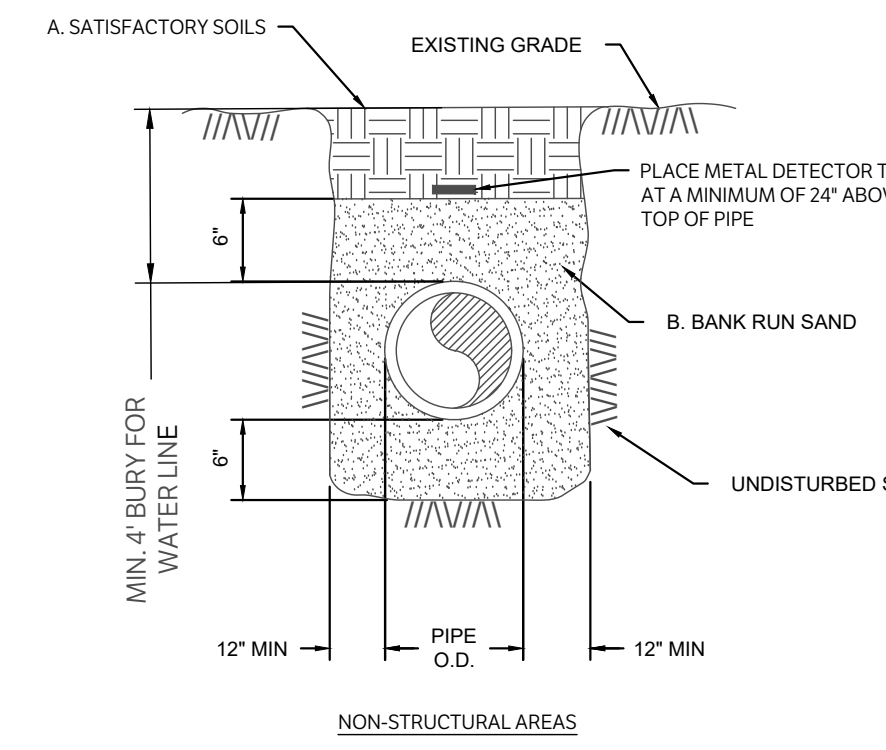


NOTES:  
1. SEE PLANS FOR JOINT SPACING, COMPRESSIVE STRENGTH, PAVEMENT THICKNESS, AND REINFORCING.  
2. SAW CUT OPERATIONS SHALL BEGIN AS SOON AS POSSIBLE AFTER CONCRETE PLACEMENT.  
3. SEAL ALL JOINTS WITH SELF LEVELING JOINT SEALANT MATERIAL PER SPECIFICATIONS.

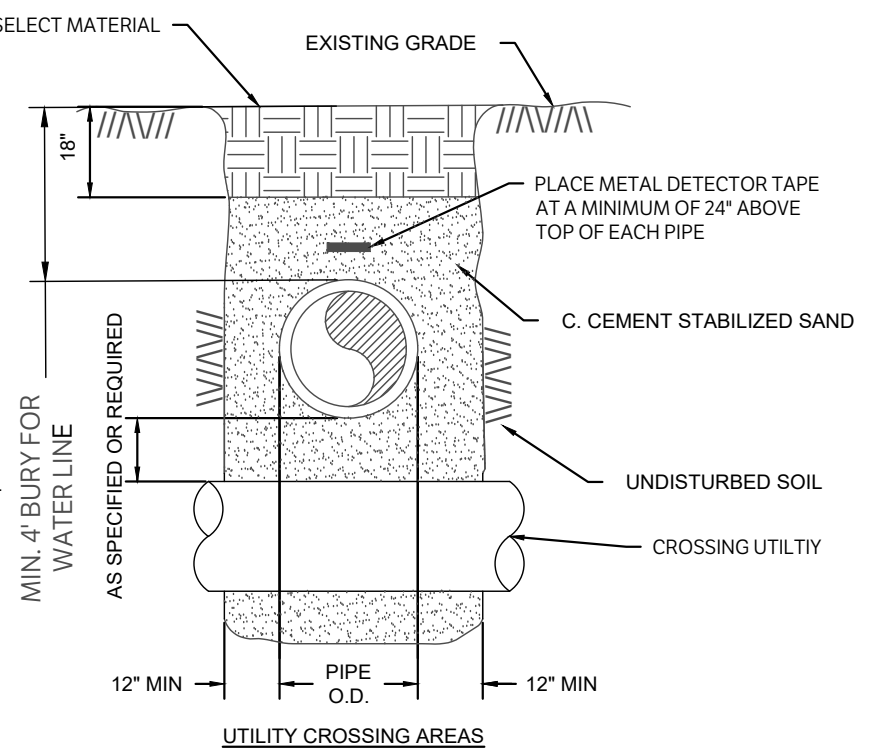
**CONTROL JOINT**  
NTS



**EXPANSION JOINT**  
NTS

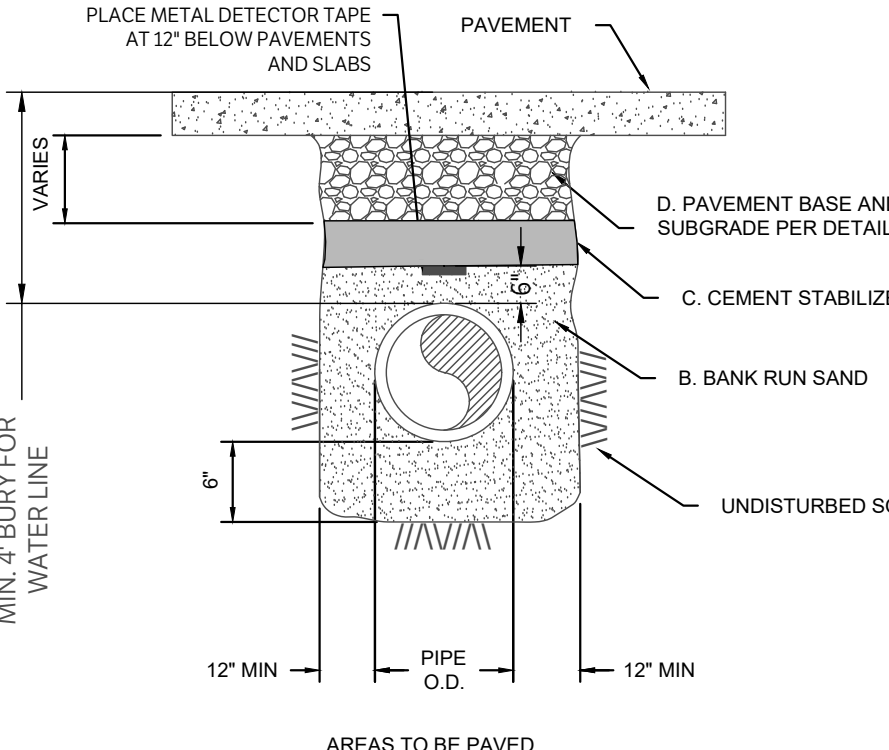


A. SATISFACTORY SOILS  
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO 2% OF OPTIMUM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



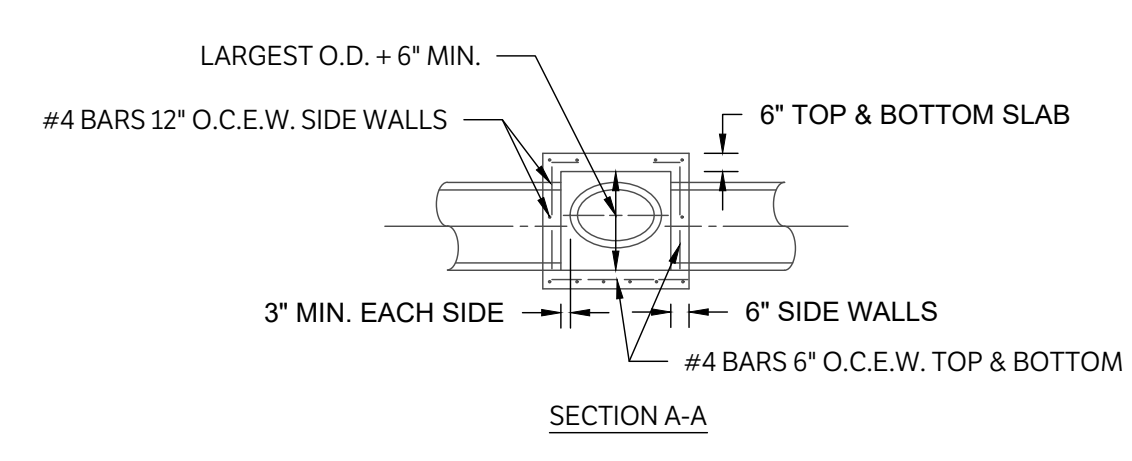
B. BANK RUN SAND  
GRANULAR MATERIAL FREE OF DETRIMENTAL QUANTITIES OF CLAY, DEBRIS, OR ORGANIC MATERIAL. REFERENCE SPECIFICATION FOR REQUIREMENTS.

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.

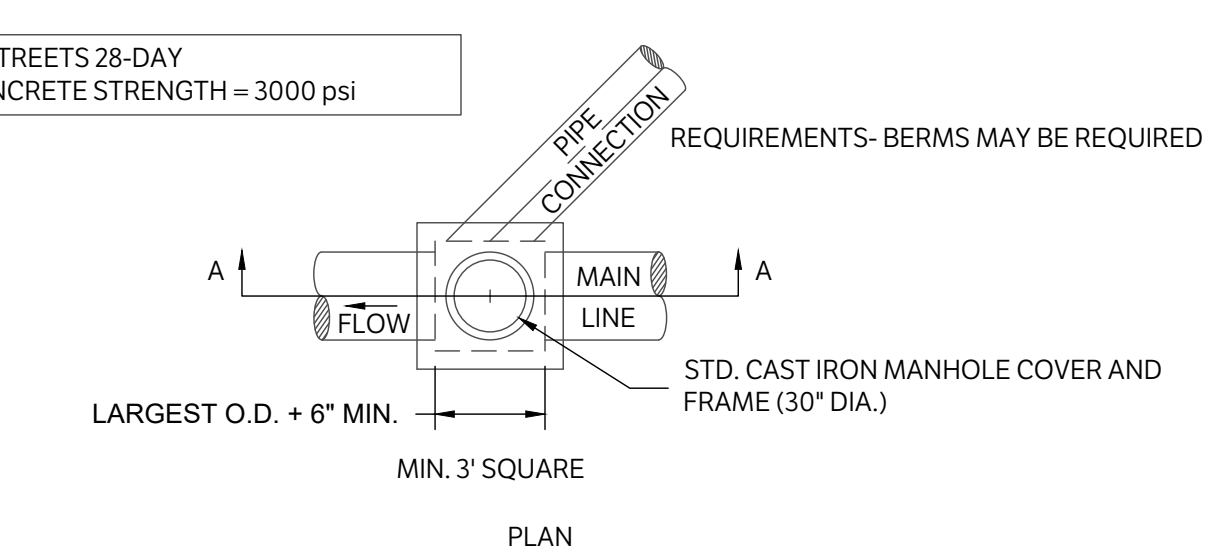


D. PAVEMENT SUBGRADE  
REFERENCE PAVEMENT SECTION DETAIL AND SPECIFICATION FOR MATERIALS AND DEPTHS.

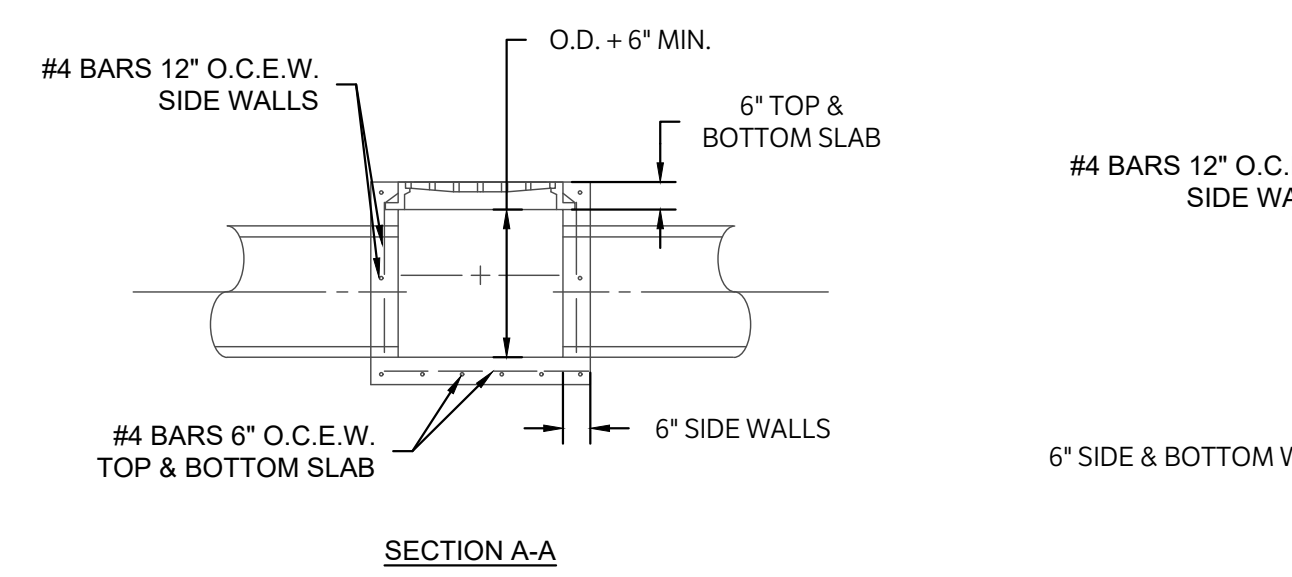
**BEDDING AND TRENCH FOR HDPE PIPE**  
NTS



**SINGLE GRATE INLET**  
NTS



**STORM SEWER JUNCTION BOX**  
NTS

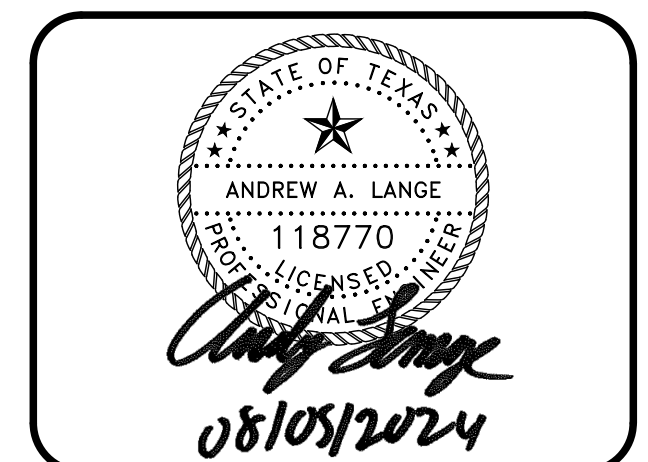
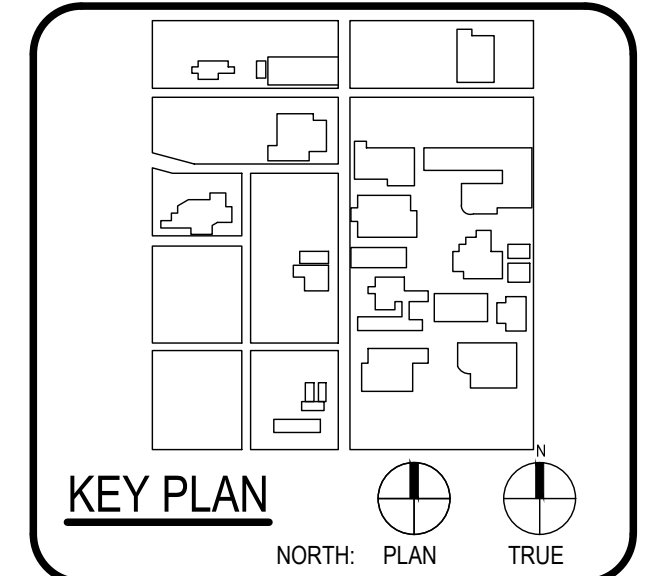


**GRATE INLET**  
NTS



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

WFAC Black Box Addition PKG 1



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

DRAWING HISTORY  
No. 1 Description: ADDENDUM 1 Date: 08/05/2024

ISSUE FOR PERMIT  
BUILDING NUMBER

DETAILS

C1200

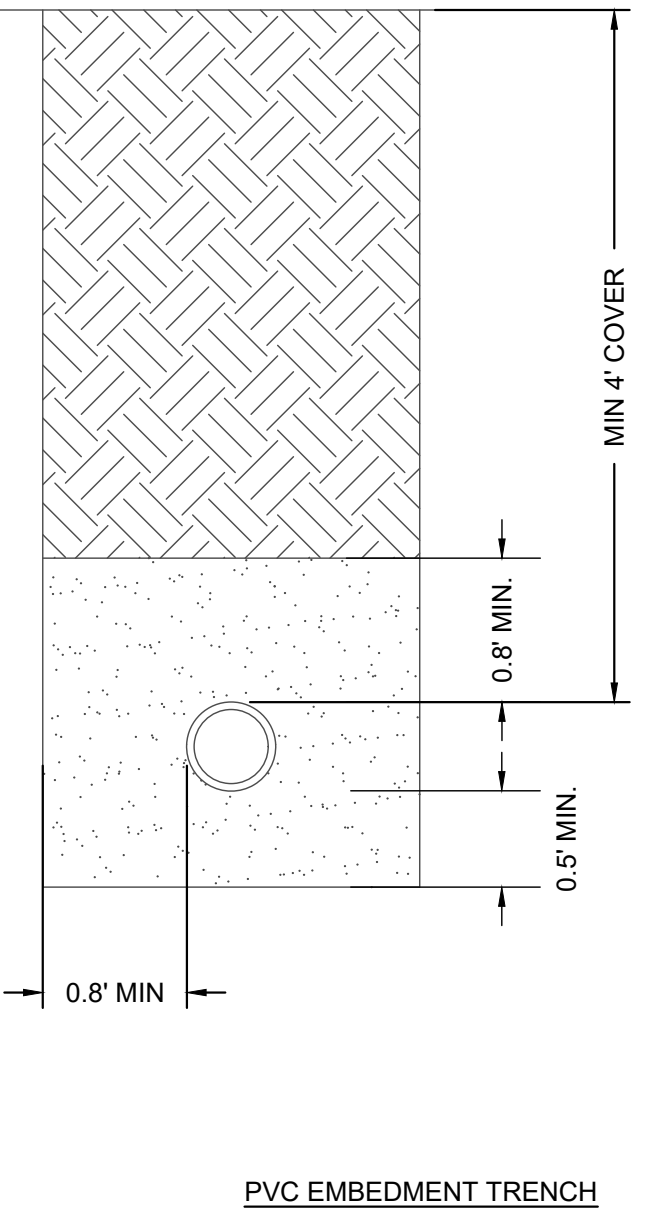
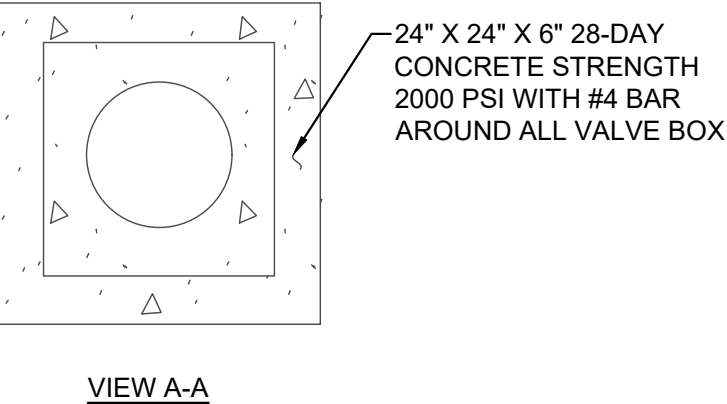
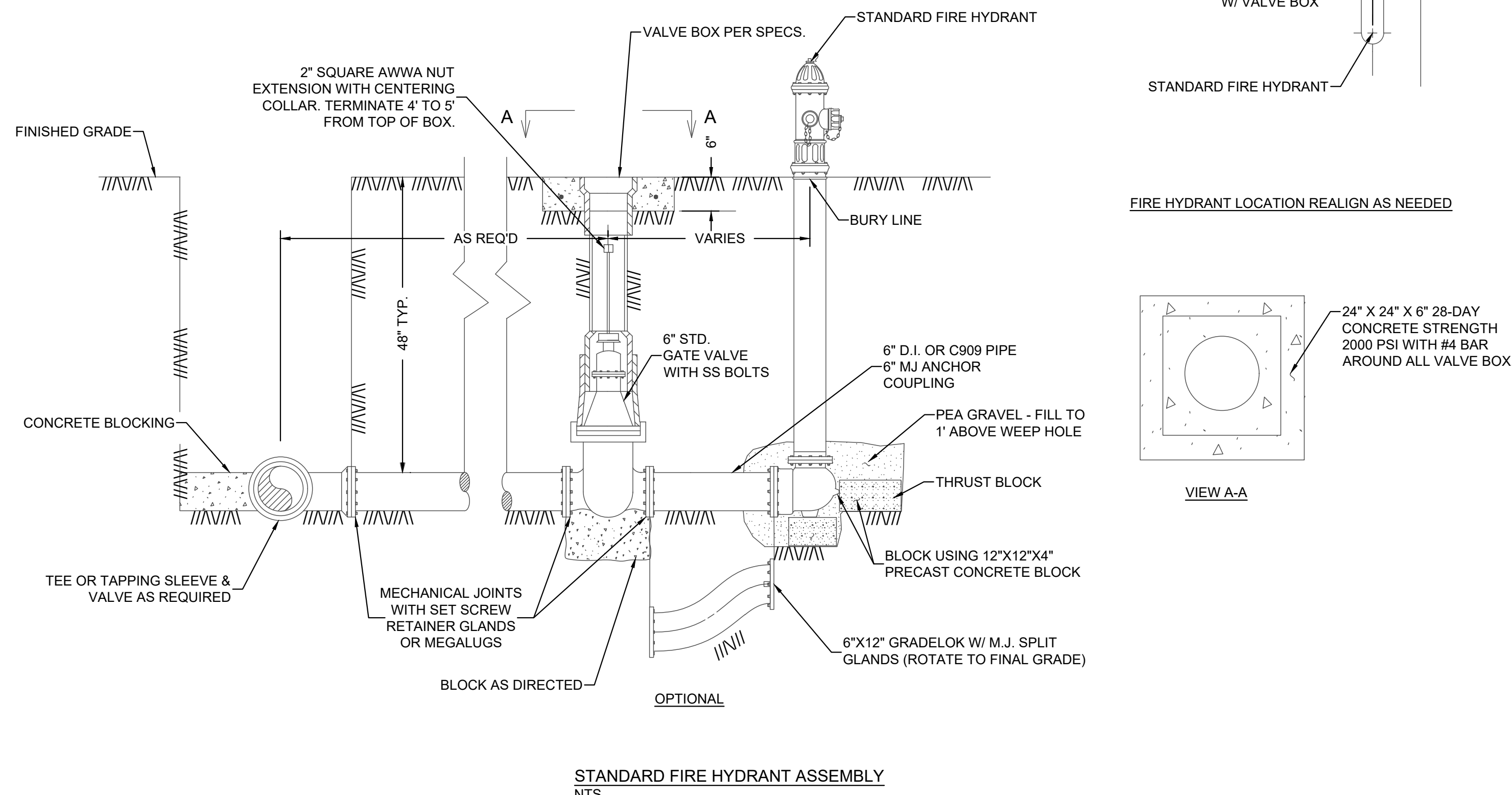
ISSUE FOR PERMIT



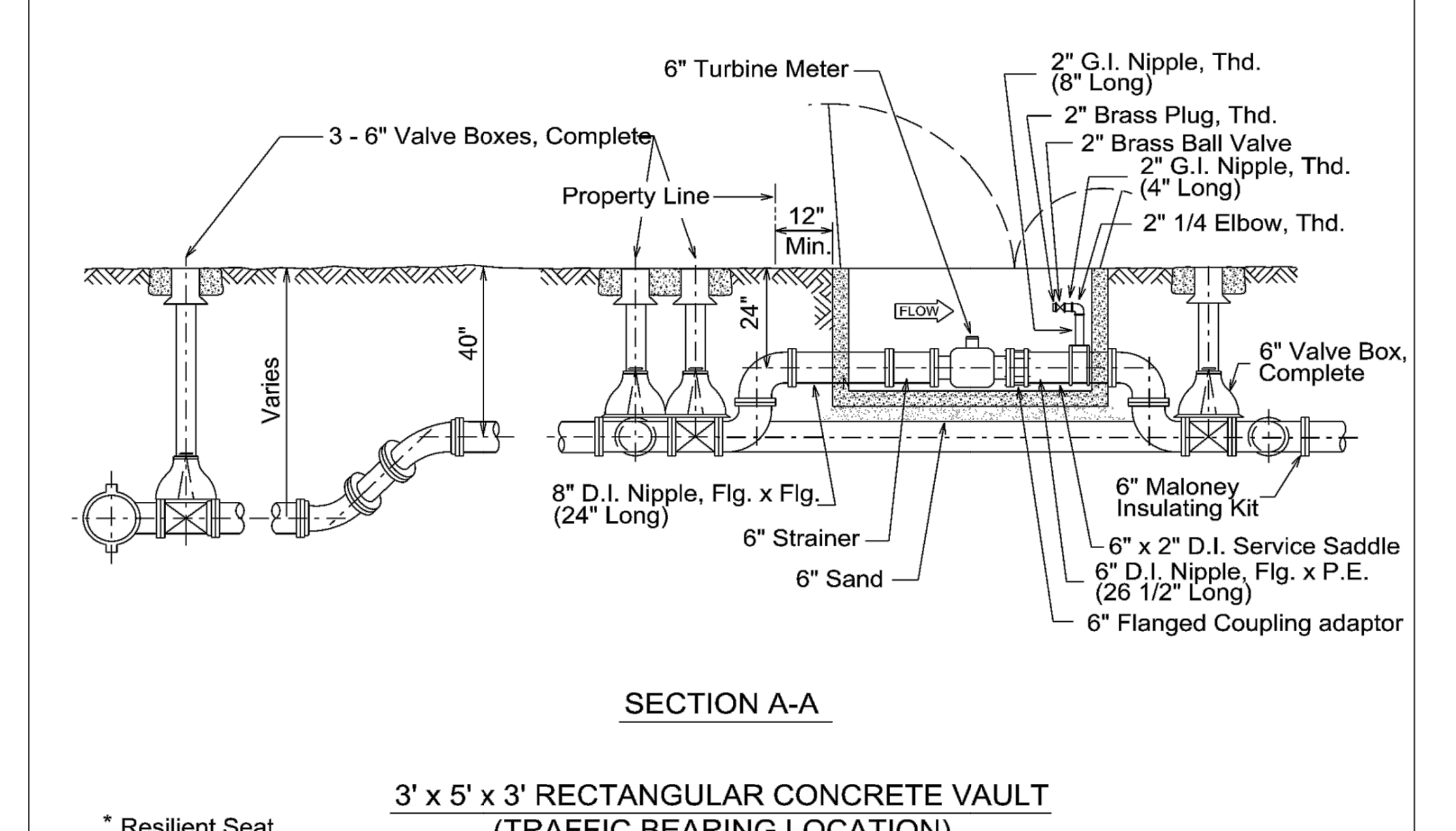
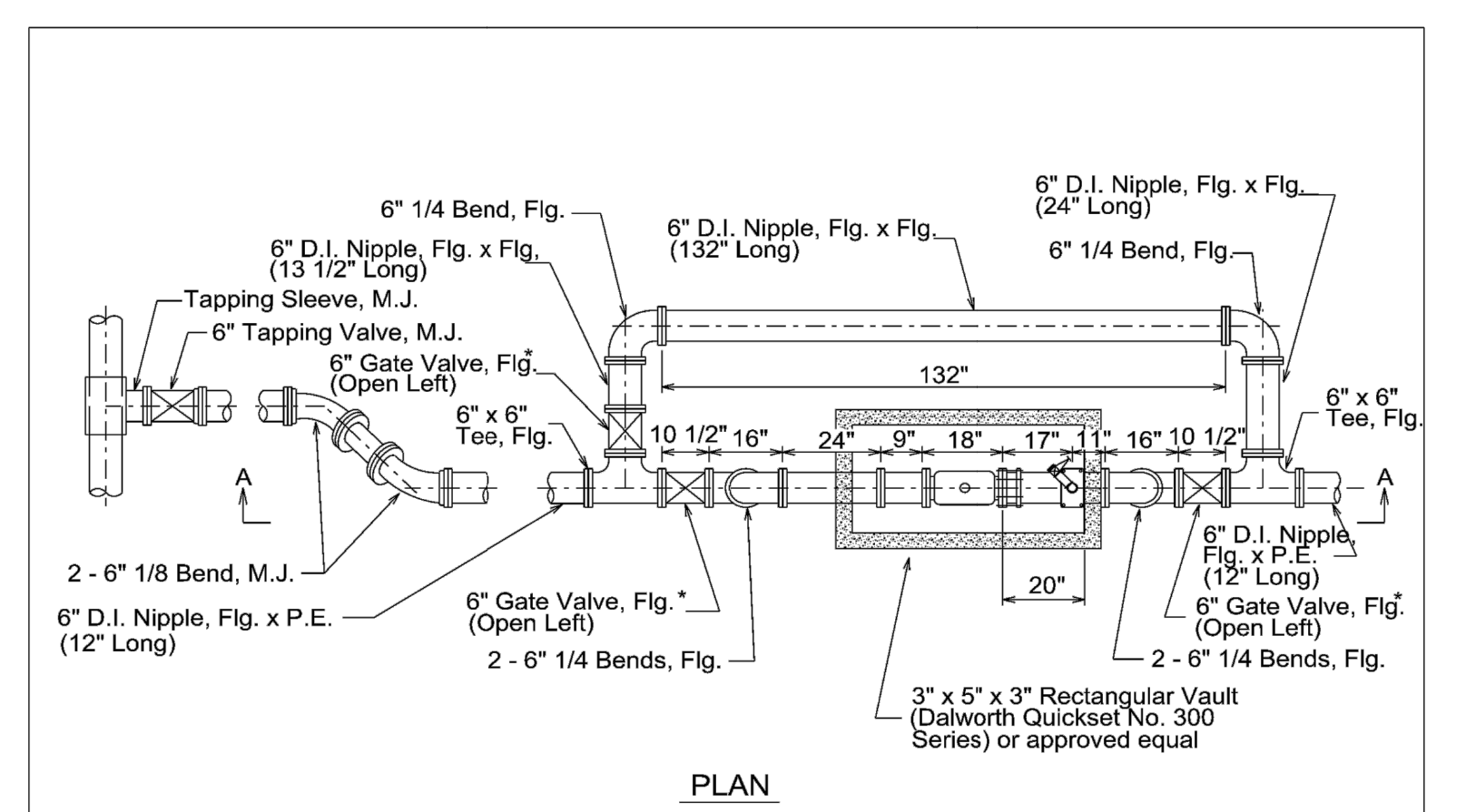
CAUTION: CONTACT TEXAS 811 AND LOCAL UTILITY PROVIDERS TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.  
CONTACT GESSNER ENGINEERING IF CONFLICTS OCCUR.

**GENERAL NOTES:**

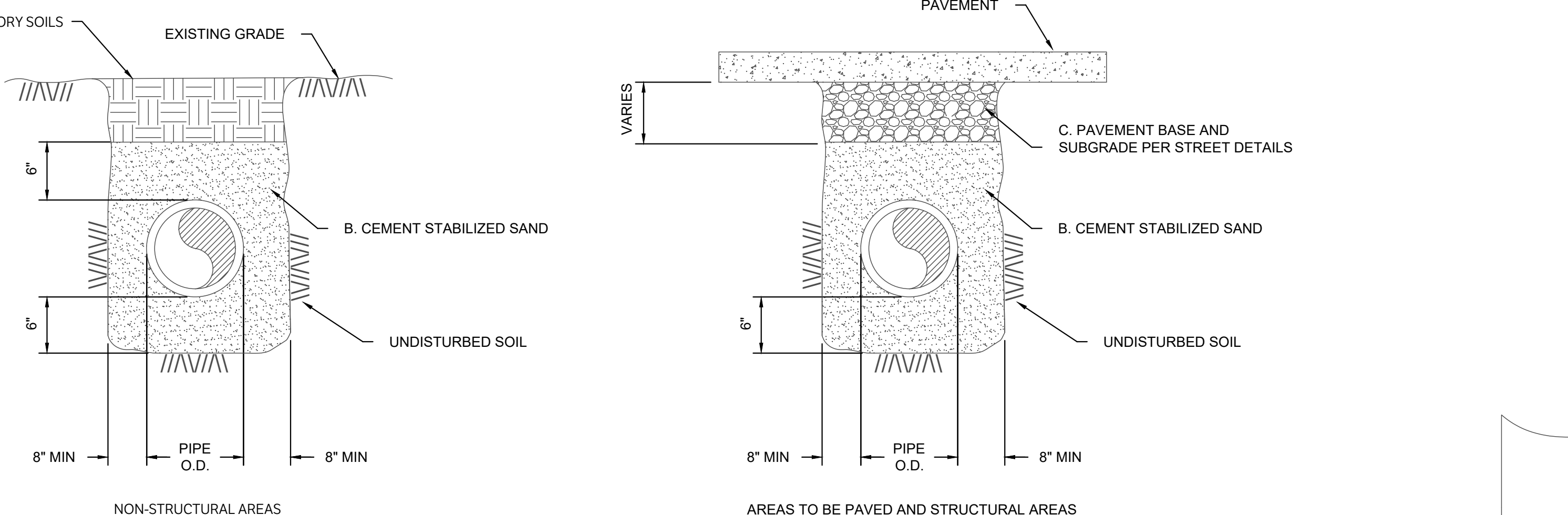
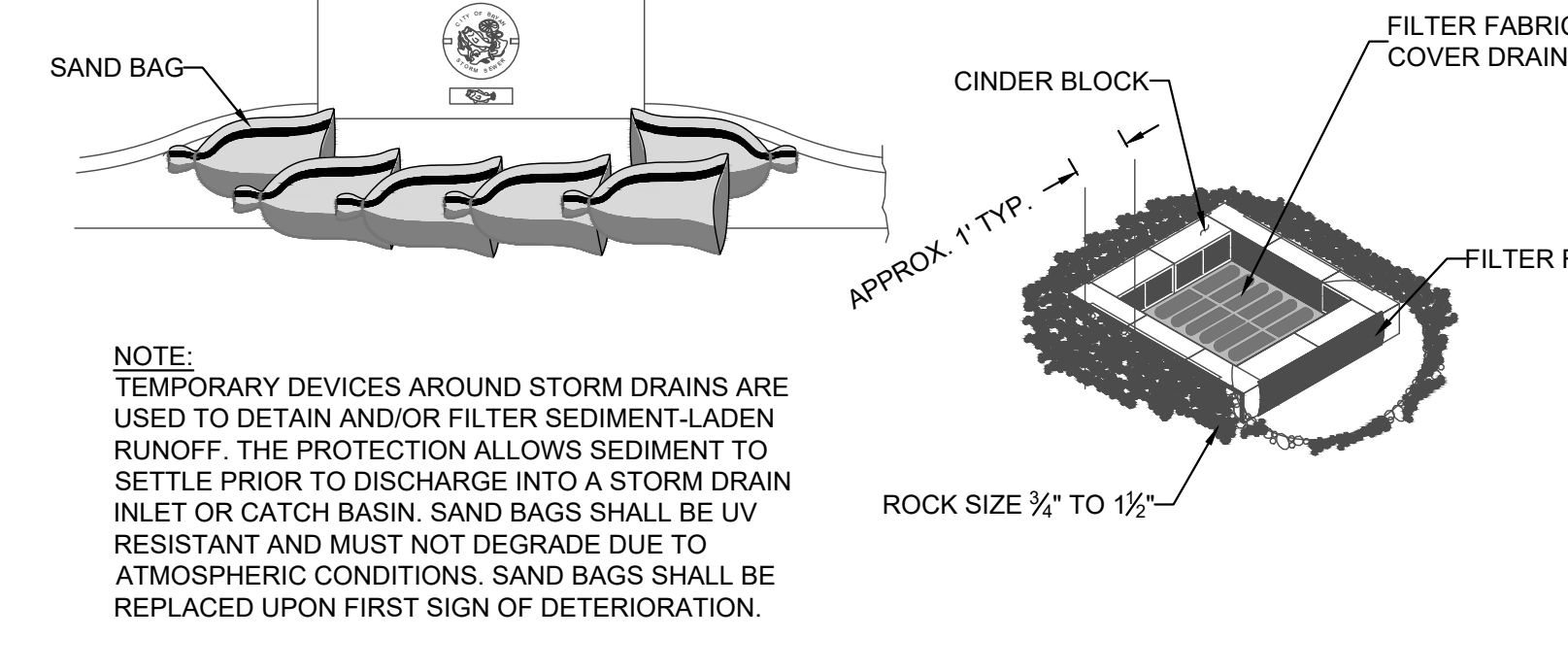
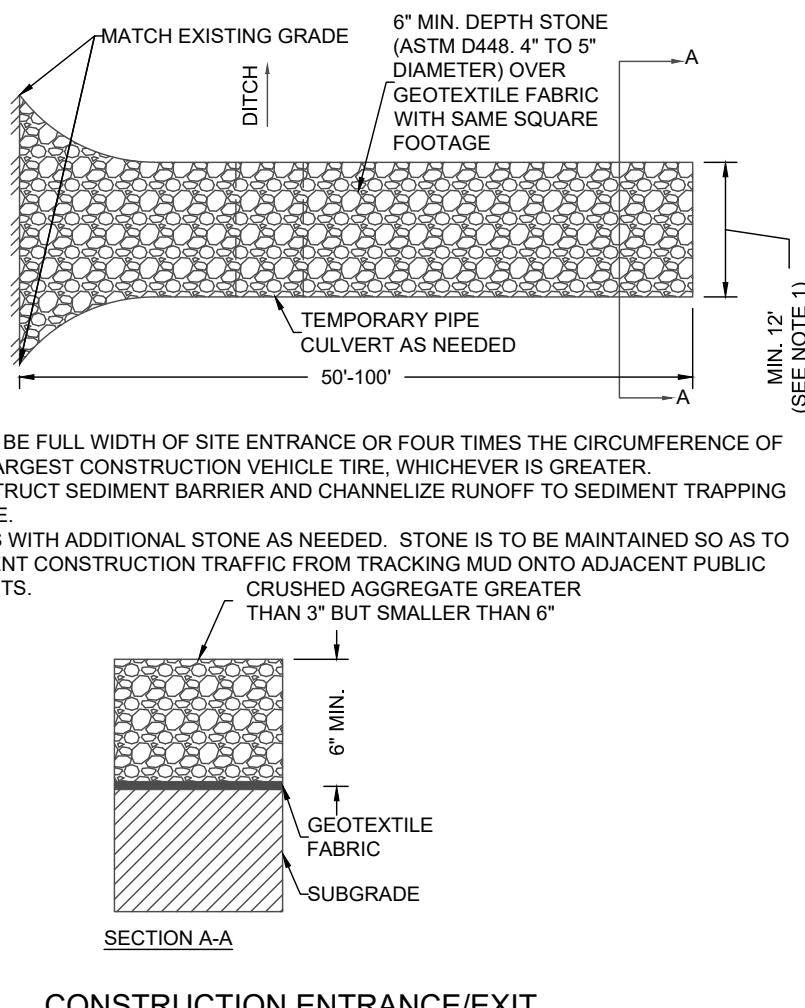
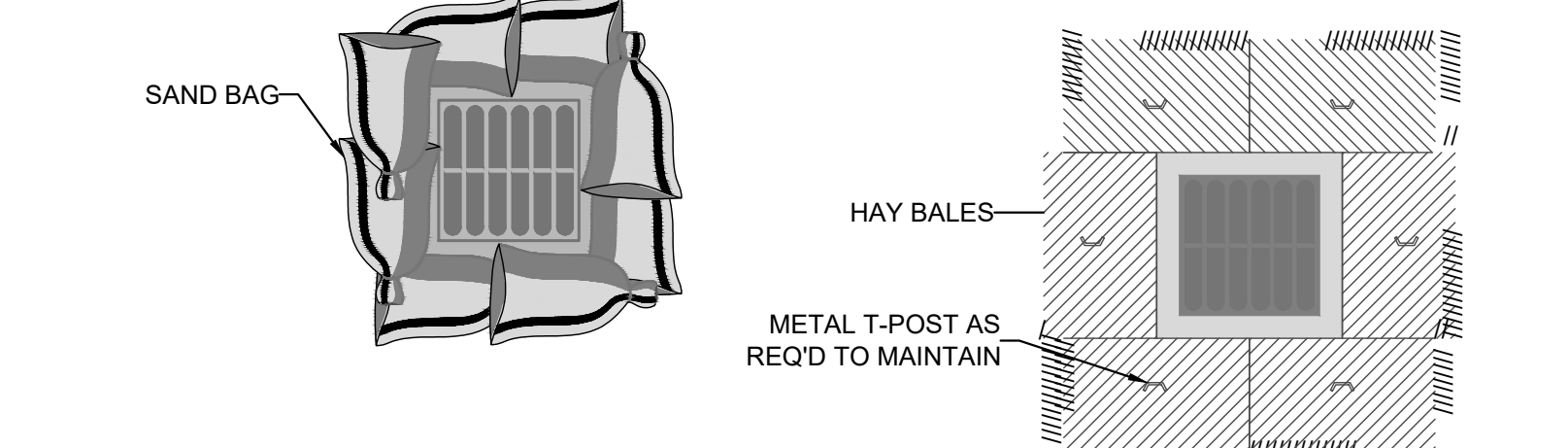
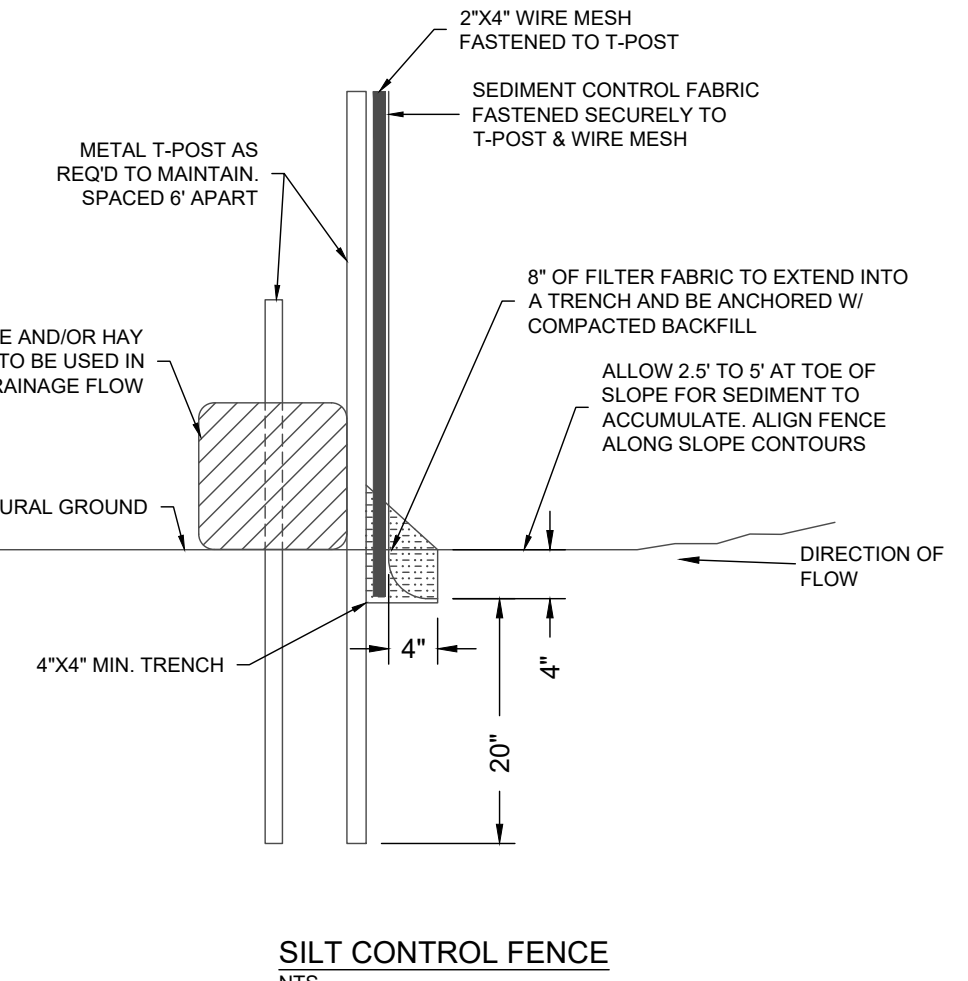
1. FINELY DIVIDED EARTH FREE OF ROCK, LUMPS AND CLODS EXCEEDING 6" SHALL BE PLACED BY HAND, AND COMPACTED AROUND THE CAST IRON PIPE TO A DEPTH OF 12" OVER THE TOP OF THE PIPE BEFORE BACKFILL IS BEGUN BY ANY MECHANICAL EQUIPMENT.
2. ALL CONCRETE BLOCKING SHALL BE - 28 DAY CONCRETE STRENGTH = 2000psi.
3. 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.
4. WATER MAINS WILL NOT BE FULLY PRESSURIZED UNTIL CONCRETE HAS REACHED 7 DAY STRENGTH.
5. 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.
6. ALL FITTINGS SHALL BE MECHANICAL JOINTS UNLESS OTHERWISE DIRECTED.
7. 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.



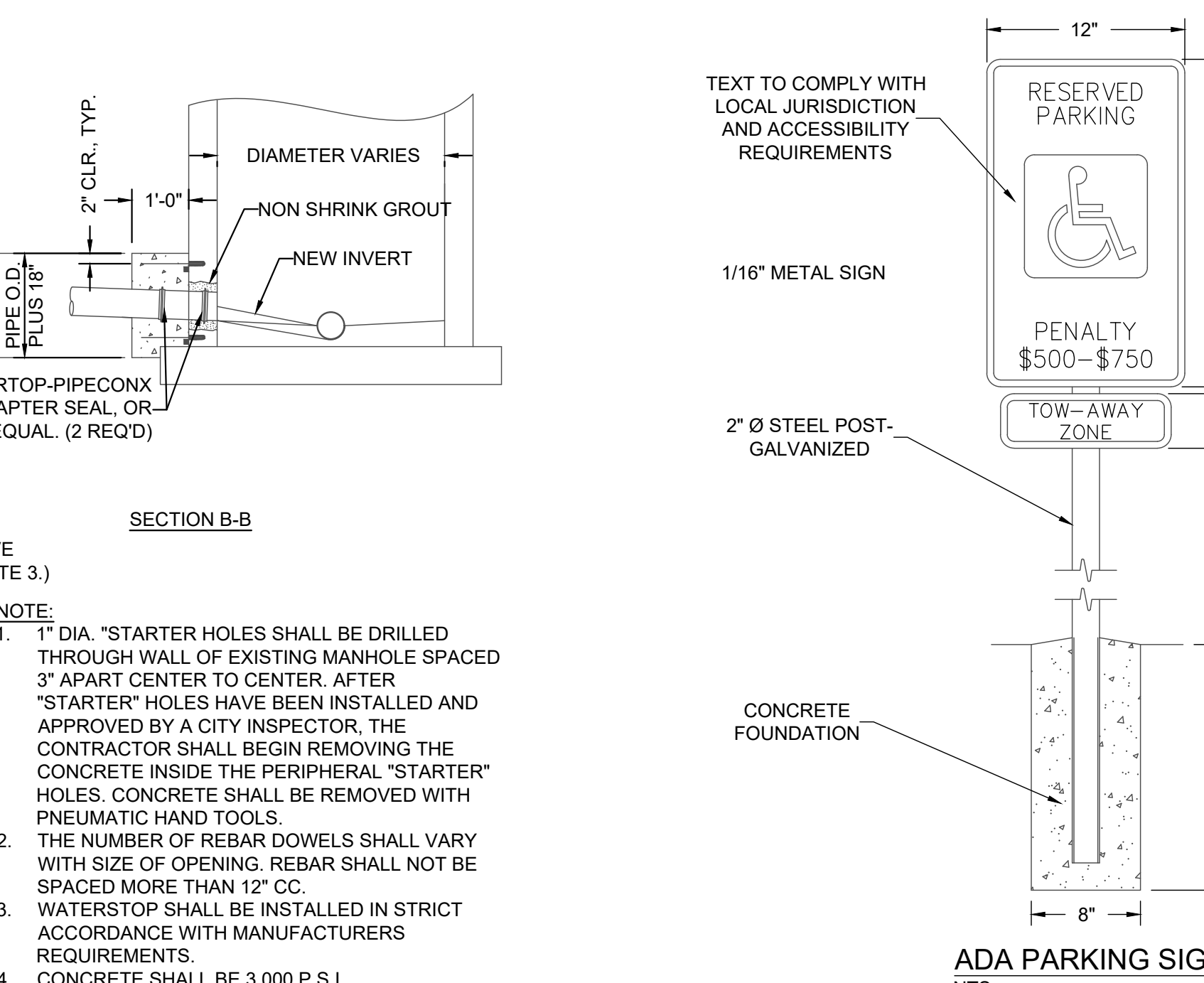
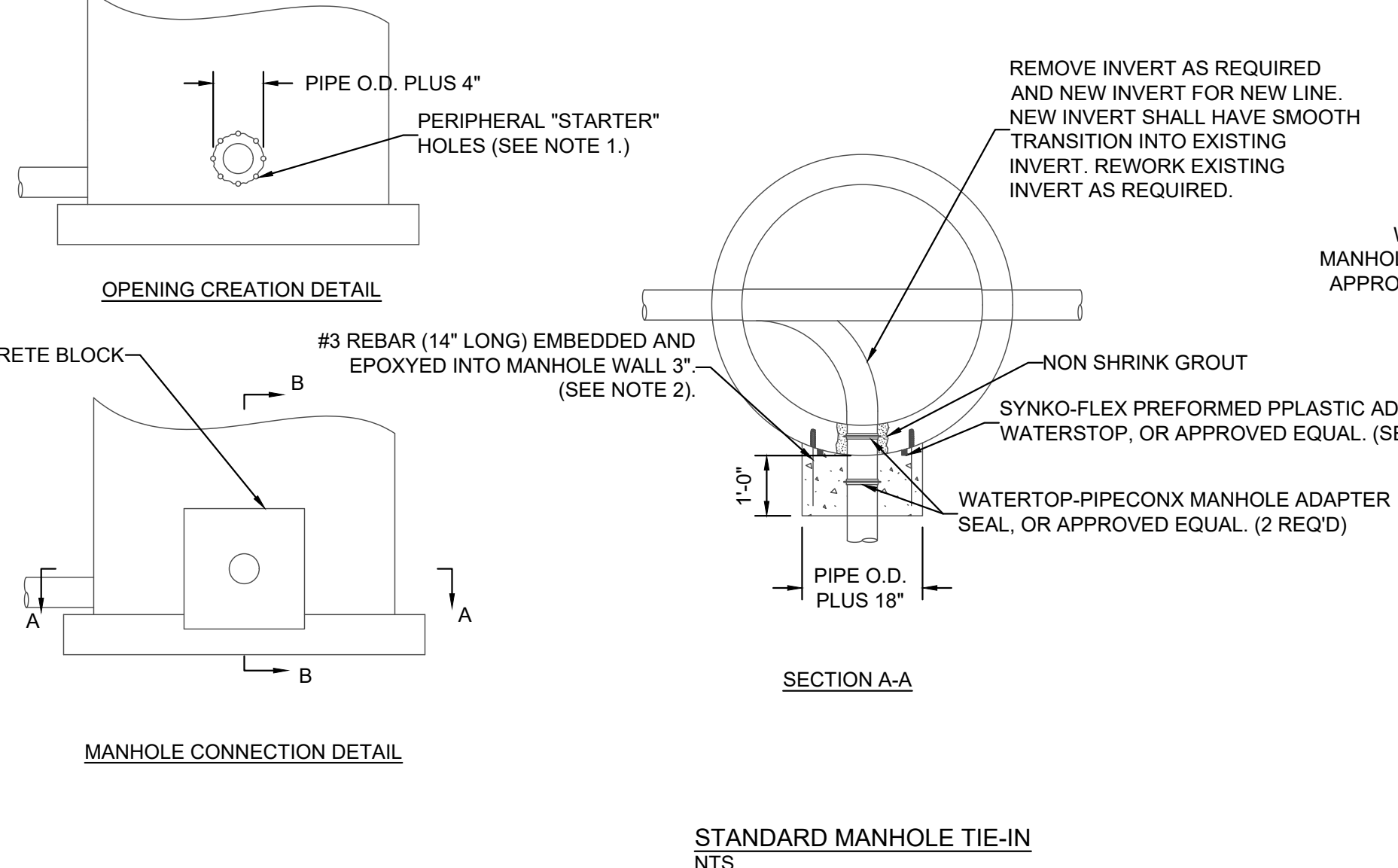
- NOTES:**
1. GRANULAR BACKFILL SHALL MEET THE SPECIFICATIONS OF TxDOT TYPE A.
  2. ONSITE MATERIAL FOR FILL SHALL BE FREE OF DEBRIS AND GRAVEL LARGER THAN 2" IN DIAMETER.
  3. UNDER PAVED AREAS, ONSITE FILL SHALL BE STABILIZED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. BACKFILL SHALL BE COMPACTED TO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



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

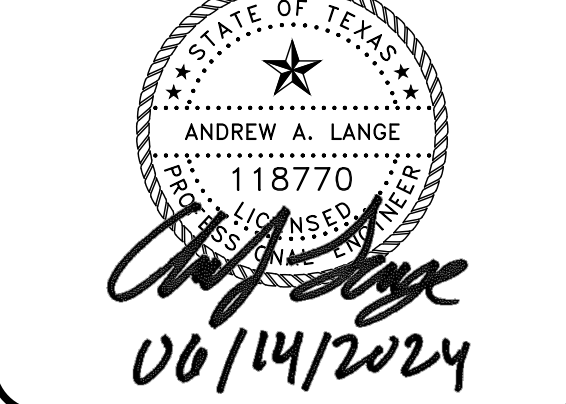
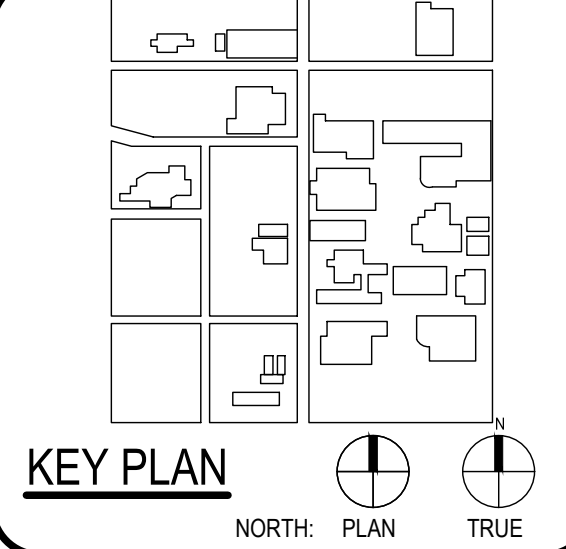


- A. SATISFACTORY SOILS**  
MATERIAL EXCAVATED FROM THE DITCH, (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN -2% TO 2% ABOVE OPTIMUM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



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	BA & ARCHITECTS
CONSULTANT	CONCRETE
LANDSCAPE ARCHITECT	LANDSCAPE
STRUCTURAL ENGINEER	STRUCTURAL ENGINEERING
MECHANICAL ENGINEER	MECHANICAL ENGINEERING
ELECTRICAL ENGINEER	ELECTRICAL ENGINEERING
CIVIL ENGINEER	CIVIL ENGINEERING
TRAVELER	TRAVELER
MEASUREMENTS	MEASUREMENTS
INSPECTION	INSPECTION
TESTING	TESTING

WFAC Black Box Addition PKG 1



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

**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER

**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

### GENERAL NOTES

- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI 308R-11 AND EXTENSION TYPE C & D.
- TYPE C INLET TO BE USED ONLY WHEN FROM DOWN PIPE IS IN LINE WITH CURB INLET AND APPROVED BY THE ENGINEER.
- QUANTITIES SHOWN ARE FOR CONSTRUCTION INFORMATION ONLY.
- CONCRETE FOR STRUCTURE SHALL BE CLASS 'A' CONCRETE.
- ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF 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.
- PAVEMENT FOR ALL DEPRESSION SHALL BE PLACED CONCRETE REINFORCING STEEL AND COVER CURB INLET AND STEPS SHALL BE INCLUDED IN THE TOP COAT OF PAVEMENT SURFACE AND SHALL BE PLACED TO OUTLET PIPE EXCEPT FOR VERTICAL OUTLET PIPE IN WHICH CASE MANHOLE RING AND COVER WILL BE OFFSET.
- ALL MANHOLE RINGS, MANHOLE PLATES AND ACCESS ARE SUBJECT TO RULES AND REGULATIONS OF THE CITY OF SAN ANTONIO.
- THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MEANS TO LIFT AND PLACE THE REINFORCING STEEL PROPERLY.
- ALL BARS AT THE BACKSTOP LOCATIONS SHALL BE CUT ON BEND.
- ALL LOWER UNITS SHALL RECEIVE WOOD FORMWORK.
- PIPE BACKSTOP IN INLET WALLS SHOULD NOT EXCEED 2" BEYOND THE CURB LINE.
- ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED.
- CONSTRUCTION JOINT MAY BE NEEDED A MINIMUM OF 3" FROM THE CURB LINE.

### PHASE CONSTRUCTION

- THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED TO A DEPTH TO BE ABLE TO BE JOINED TO THE LOWER UNIT.
- UPON THE CURB INLET AND EXTENSION WITH A 100% TEST APPROVED BY THE ENGINEER AND CONSTRUCT THE MAINWAY OVER THE PLATE.
- UPON THE MAINWAY IS COMPLETED FROM TO THE MAINWAY, CONCRETE SHALL BE PLACED OVER THE PLATE AND THE UPPER PORTION OF THE CURB INLET AND FOR EXTENSION.

### 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

### GENERAL NOTES

- WHEN INLET EXTENSIONS ARE REQUIRED FOR ON SLOPE CURB INLET EXTENSION SHALL BE PLACED ON THE EXTENSION END OF THE INLET.
- FOR CURB INLET EXTENSION REINFORCING STEEL NOTES & DIMENSIONS APPLICABLE TO THE INLET SHALL BE USED ON THE EXTENSION.

### INLET BOLTING DETAILS

### CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)

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

1/4" [6mm] RAD.  
1/2" [13mm] RAD.  
2" [51mm]  
1 1/8" [30mm]  
7/8" [20mm]  
3/8" [9.5mm]  
3/8" [9.5mm]  
1" [25mm]  
1 1/8" [30mm]  
5/8" [16mm]  
FULL RADIUS TYP.

NOTE: ALL DIMENSIONS ARE SHOWN IN INCHES AND (MILLIMETERS)  
FREE OPEN AREA: 2.75 SQ. FT.  
MATERIAL: CAST GRAY IRON ASTM A-18, CLASS 35B  
FINISH: NOT PAINTED.

DATE	DESCRIPTION
08/24/92	ISSUE FOR CONSTRUCTION

REVISIONS:  
1. RING & COVER MANUFACTURER SHALL BE APPROVED BY THE ENGINEER.  
2. THE COVER SHALL BE CAST GRAY IRON ASTM A-18, CLASS 35B.  
3. THE COVER SHALL BE FINISHED TO MATCH THE SURROUNDING PAVEMENT.  
4. THE COVER SHALL BE PLACED TO MATCH THE SURROUNDING PAVEMENT.

### 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
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### GENERAL NOTES

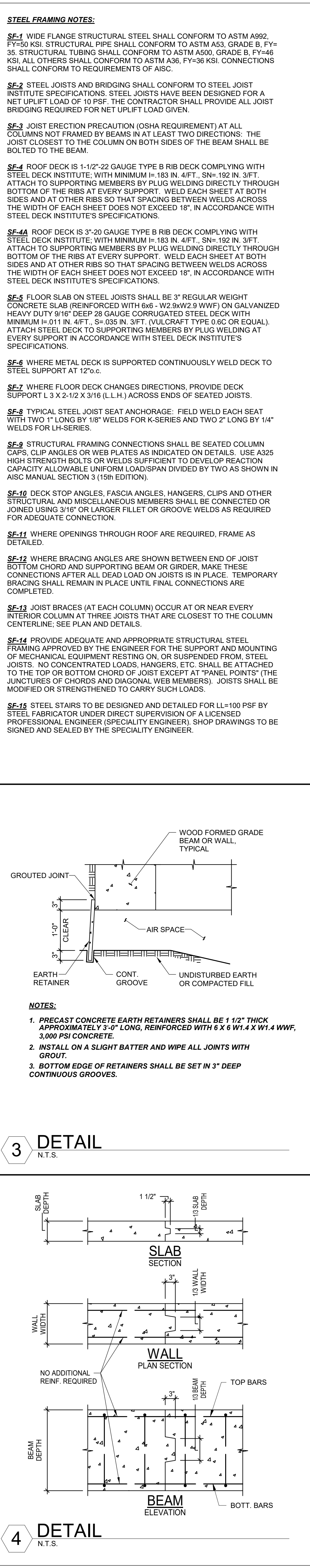
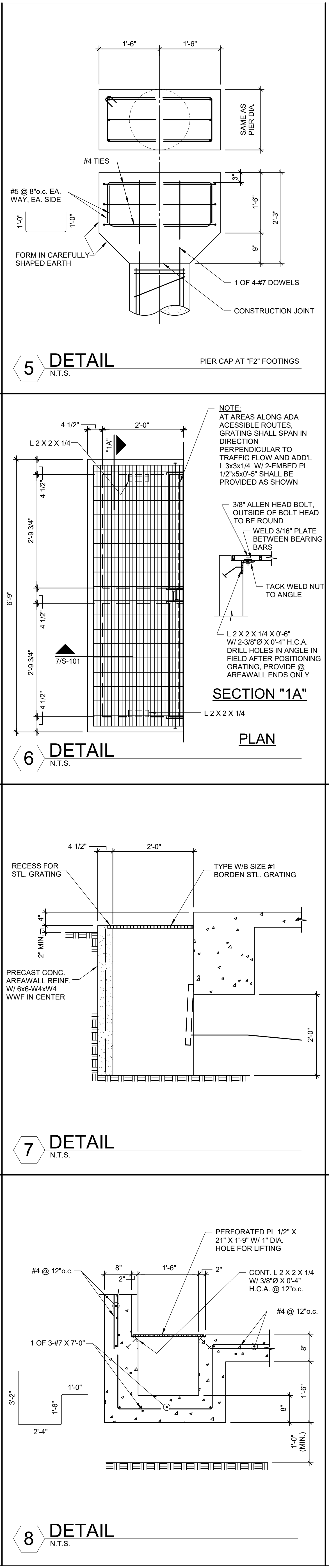
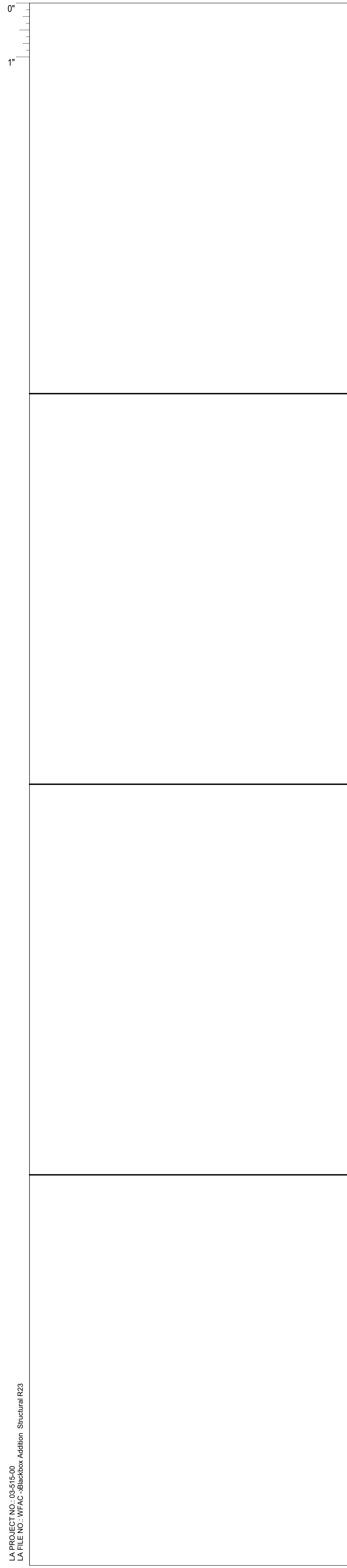
- FOR ALL DEPRESSION OUTSIDE OF CITY OF SAN ANTONIO, CHECK WITH MANHOLE MANUFACTURER.
- CASTING MANHOLE AND MANUFACTURER'S ID ON LID AND RING.
- LOAD BEARING CAPACITY OF 10-20 MPM.
- THE LOAD BEARING CAPACITY SHALL BE MARKED ON THE COVER.
- THE COVER WEIGHT OF THE MANHOLE RING AND COVER SHALL BE AT LEAST 80 LBS.

### MANHOLE LID & RING DETAIL (ITEM 409)

### CONCRETE INLET BOX CONFIGURATIONS (UPPER UNITS)

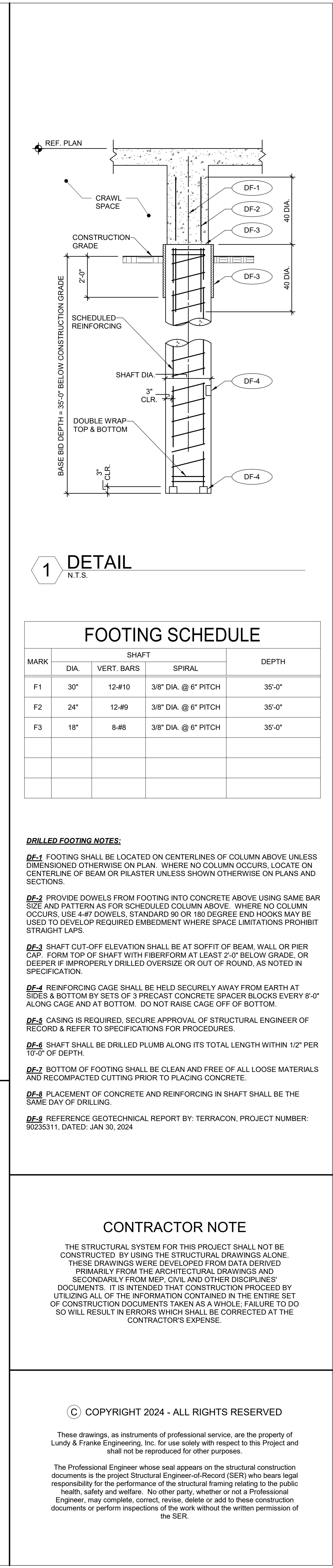
MAY 2009  
CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT  
TYPE "C" INLET (TYPE I & II) & INLET EXTENSION STANDARDS  
SHEET 3 OF 3





STEEL FRAMING NOTES, CONCRETE NOTES, GENERAL NOTES, REINFORCING BAR LAP SPLICE TABLE (MASONRY), REINFORCING BAR LAP SPLICE TABLE (BEAMS AND COLUMNS), REINFORCING BAR LAP SPLICE TABLE (SLABS AND WALLS), REBAR LAP SPLICE TABLE NOTES, STEEL COLUMN NOTES, COLUMN SCHEDULE

FOOTING SCHEDULE table with columns for MARK, DIA., VERT. BARS, SPIRAL, and DEPTH. Includes notes for drilled footing and contractor notes.



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

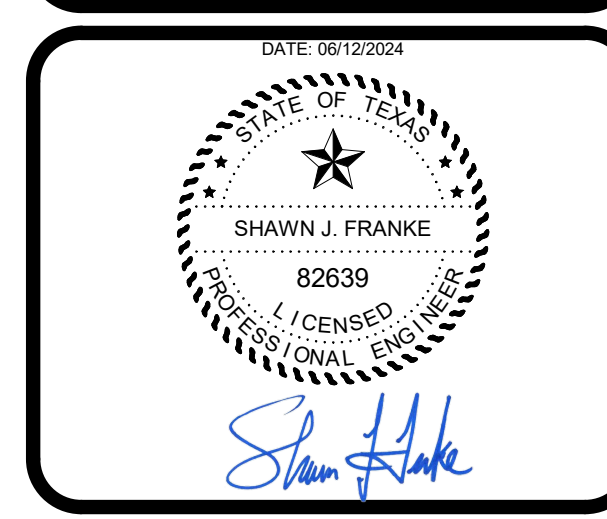
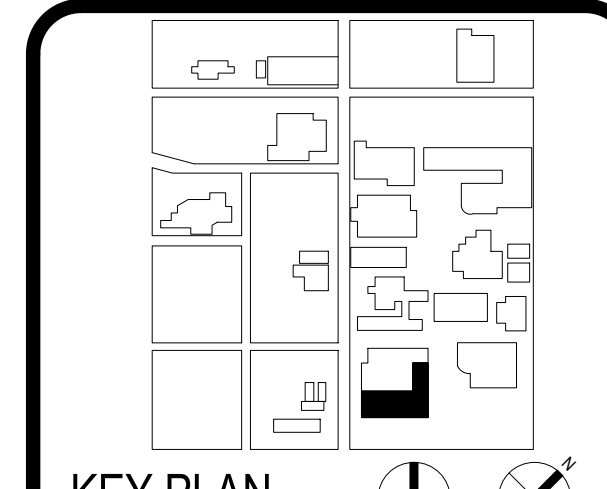


ARCHITECT SAN ANTONIO PBK Architects, Inc. 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216

ENGINEERING LUNDY & FRANKE 568 HEIMER ROAD San Antonio, Texas 78232

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

ALAMO COLLEGES ST. PHILLIP'S COLLEGE



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

ISSUE FOR CONSTRUCTION BUILDING NUMBER AB





**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

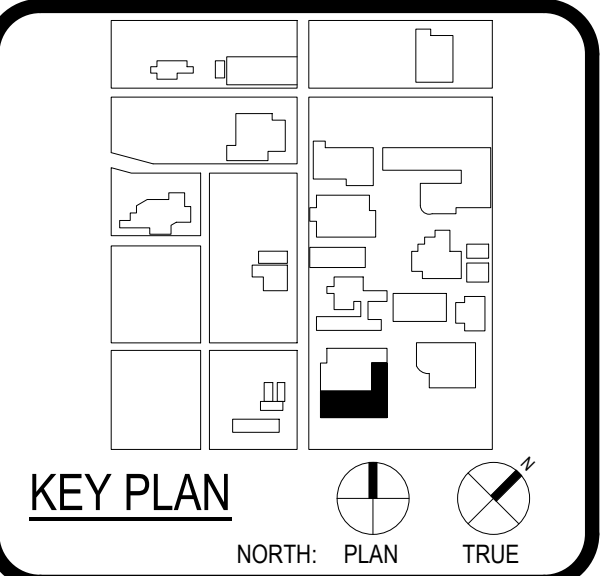
**LUNDY & FRANKE ENGINEERING**  
 548 HEINER ROAD PH 018 979-7900  
 SAN ANTONIO, TEXAS 78232 FX 019 979-7800  
 TX FIRM REG. #3388

**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION

**ALAMO COLLEGES**  
 ST. PHILLIP'S COLLEGE



DATE: 06/12/24

**SHAWN J. FRANKE**  
 LICENSED PROFESSIONAL ENGINEER  
 82639

*Shawn Franke*

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

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

ISSUE FOR CONSTRUCTION

BUILDING NUMBER: **AB**

**SPECIAL INSPECTION NOTES**

**S-102**

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

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

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

**TESTING & INSPECTION REQUIREMENTS (INCLUDING SPECIAL INSPECTIONS)**

REQUIRED INSPECTION VERIFICATION, OR TEST	VERIFICATION MONITORING FREQUENCY	TYPE AND/OR FREQUENCY OF TESTING	IBC SECTION & REFERENCE CODES	INSPECTOR QUALIFICATIONS
<b>1. SOILS (SLAB ON GRADE)</b>				
<b>1. SUB-GRADE:</b> 1. VISUAL OBSERVATION	PERIODIC	SITE PREPARATION: AT THE CONTRACTOR'S EXPENSE, INSTRUMENT READINGS SHALL BE TAKEN BY A LICENSED SURVEYOR TO VERIFY FINAL SUBGRADE ELEVATIONS AND SLOPES.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740 LICENSED SURVEYOR"
<b>2. PROFFROLLING OBSERVATIONS</b>	CONTINUOUS	PROFFROLLING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES. PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740"
<b>3. MOISTURE CONDITIONING &amp; GROUTING</b>	PERIODIC	MOISTURE CONDITIONING & GROUTING SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL APPROVE THE TYPE OF PROFFROLLING EQUIPMENT AND PROCEDURES. PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740"
<b>B. CHEMICAL INJECTION</b>	NA	QUALITY CONTROLLED TESTING AND EVALUATION PRIOR AND SUBSEQUENT TO INJECTION SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER TO DETERMINE THE EFFECTIVENESS OF THE CHEMICAL INJECTION PROCESS. THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE INJECTION PROCESS TO VERIFY AREA COVERAGE, INJECTION DEPTH AND TO REVIEW AND MONITOR THE SWELL TEST RESULTS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740"
<b>C. DURING FILL PLACEMENT</b>	PERIODIC	VISUAL OBSERVATIONS: DURING PLACEMENT AND COMPACTOR OF FILL, SPECIAL INSPECTOR SHALL DETERMINE THE MATERIAL BEING USED AND THE MAXIMAL LIFT THICKNESS COMPPLY WITH ADDITIONAL SAMPLES TESTED EACH DAY, OR MORE OFTEN IF MATERIAL APPEARS TO VARY.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740"
<b>D. EVALUATION OF IN-PLACE DENSITY OF FILL</b>	PERIODIC	PROVIDE: (1) ON DENSITY TEST FOR EACH 3000 SQ. FT. REFER TO UNDERFLOOR FILL NOTES FOR TESTING SPECIFICATIONS.	IBC 1705.6 GEOTECHNICAL REPORT, BUILDING PAD GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM D3740"
<b>E. TRENCH BACKFILLING:</b>	PERIODIC	TRENCH BACKFILLING: TRENCH BACKFILLING WITH CLAY CAP AND PLACING OF CLAY PLUG SHALL BE MONITORED BY GEOTECHNICAL ENGINEER.		
<b>2A. PILE FOUNDATIONS</b>				
<b>A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PILE.</b>	NA	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORSEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.7 GEOTECHNICAL REPORT:	GRADUATE ENGINEER "QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077"
<b>B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.</b>	NA	1. PROVIDE RECORD OF EACH PILE INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PILE.	IBC 1705.7 GEOTECHNICAL REPORT:	"QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077"
<b>2B. PIER FOUNDATIONS</b>				
<b>A. THE GEOTECHNICAL ENGINEER OR A QUALIFIED E.I.T. INVOLVED IN THE ORIGINAL GEOTECHNICAL INVESTIGATION AND UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING THE EXCAVATION OF THE FIRST PIER SHAFT.</b>	CONTINUOUS	1. VERIFY THE BEARING STRATH IS ENCOUNTERED AT THE ANTICIPATED DEPTH. 2. ADDRESS UNFORSEEN SUBSURFACE CONDITIONS, IF ANY. 3. VERIFY CONFORMANCE WITH THE FOUNDATION RECOMMENDATIONS PROVIDED IN THE PROJECT "GEOTECHNICAL ENGINEERING STUDY" AND THE STRUCTURAL DRAWINGS ISSUED FOR THE PROJECT.	IBC 1705.8 GEOTECHNICAL REPORT:	GRADUATE ENGINEER "QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077"
<b>B. ALL FOOTINGS SHALL BE OBSERVED AND MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER WITH A COMPLETE SET OF STRUCTURAL DRAWINGS THAT ARE TO REMAIN WITH THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.</b>	CONTINUOUS	1. PROVIDE RECORD OF EACH PIER INSTALLED. 2. RECORD LOAD TESTS, CUTOFF AND TIP OF EACH PIER.	IBC 1705.8 GEOTECHNICAL REPORT:	"QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077"
<b>3. CONCRETE CONSTRUCTION</b>				
<b>A. REINFORCING STEEL</b>	PERIODIC	PROVIDE PERIODIC INSPECTION OF REINFORCING SIZES, SPACING, GRADE OF REBAR, AND PLACEMENT AT THE FOLLOWING FREQUENCY: CONCRETE: 10% BEAMS: 30% JOIST: 10% OTHER MEMBERS: RANDOMLY @ 20%	IBC 1705.3 ACI 318, CH. 5.5, 7.1.1-7.1.7; CONCRETE AND REINFORCING GENERAL NOTES	"QUALIFICATIONS BASED ON ASTM E528"
<b>B. REINFORCING STEEL WELDING</b>	-	NO FIELD WELDING PERMITTED.	AWSD D1.4 ACI 318 5.5.2	CWI OR ASSOCIATE CWI
<b>C. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO &amp; DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS.	IBC 1705.3	"TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE."
<b>D. ANCHORS TO BE INSTALLED IN EXISTING CONCRETE</b>	CONTINUOUS	VERIFY LOCATION, SIZE AND SPACING OF ANCHORS	IBC 1705.3	"TECHNICIAN TRAINED IN FIELD OF WORK AND HAS AT LEAST ONE YEAR EXPERIENCE."
<b>E. VERIFY USE OF CONCRETE MIX DESIGN</b>	PERIODIC	EACH CONCRETE POUR.	ACI 318-CH. 4, 5.2.4	"QUALIFICATIONS BASED ON ASTM C1077"
<b>F. SAMPLES OF FRESH CONCRETE</b>	CONTINUOUS EACH CONCRETE POUR	1. ALL CONCRETE TESTING IS TO BE MADE AFTER WATER, IF ANY, IS ADDED AT SITE. 2. TAKE SAMPLES & PERFORM SLUMP, AIR & COMPRESSION TESTS IN ACCORDANCE WITH ASTM C-39 ON CONCRETE PLACED EACH DAY AT THE RATE OF ONE SET OF FOUR CYLINDERS FOR EACH 80 cu. yds. OR FRACTION THEREOF. WHEN MORE THAN 80 cu. yds. IS BEING CONTINUOUSLY PLACED, THE INTERVAL BETWEEN TEST SAMPLES SHALL BE AT LEAST 90 cu. yds. SO AS TO BE REPRESENTATIVE OF THE WHOLE DAYS POUR. SAMPLES SHALL BE TAKEN AT THE POINT OF DEPOSIT IN THE FIELD & ALL CYLINDERS SHALL BE ACCURATELY MARKED & REFERENCED TO SHOW DATE, TIME & EXACT LOCATION IN THE STRUCTURE FROM WHICH THEY CAME. MAKE 7-DAY TEST ON TWO CYLINDERS & 28-DAY TEST ON TWO CYLINDERS. REPORTS OF TESTS SHALL BE PROMPTLY SENT AS FOLLOWS: TWO TO THE PORTING (ARCHITECT), ONE TO THE ENGINEER AND ONE TO THE CONTRACTOR.	ACI 318-CH. 5.6, 5.8	"QUALIFICATIONS BASED ON ASTM C1077"

SECTION	DESCRIPTION	IBC CODE	QUALIFICATIONS
<b>6. MASONRY CONSTRUCTION</b>			
<b>G. PLACEMENT OF CONCRETE &amp; SHOTCRETE</b>	CONTINUOUS	ACI 318-CH. 5.9, 5.10	"QUALIFICATIONS BASED ON ASTM C1077"
<b>H. MAINTENANCE OF SPECIFIED CURING TEMPERATURE &amp; TECHNIQUES</b>	PERIODIC	EACH CONCRETE POUR	"QUALIFICATIONS BASED ON ASTM C1077"
<b>I. PRESTRESSED CONCRETE</b>	NA	1. APPLICATION OF PRESTRESSING FORCE 2. GROUPING OF BOLDED PRESTRESSING TENDONS IN SEISMIC-FORCE RESISTING SYSTEMS.	"QUALIFICATIONS BASED ON ASTM C1077"
<b>J. ERECTION OF PRECAST CONCRETE MEMBERS</b>	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS.	"QUALIFICATIONS BASED ON ASTM E528"
<b>K. POST-TENSIONED CONCRETE</b>	NA	1. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS. 2. THE POST-TENSIONING ENGINEER OR A MEMBER OF HIS STAFF SHALL INSPECT THE TENDON PLACEMENT AND CHAIRING TO INSURE COMPLIANCE WITH THE INTENT OF THE DESIGN.	"QUALIFICATIONS BASED ON ASTM E528"
<b>L. REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS</b>	PERIODIC	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL.	"QUALIFICATIONS BASED ON ASTM E528"
<b>M. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS, ADHESIVE ANCHORS, ECT.)</b>	CONTINUOUS	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS AND ANCHOR EMBEDMENT.	"QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE"
<b>4. STEEL CONSTRUCTION</b>			
<b>A. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	STRUCTURAL STEEL GENERAL NOTES
<b>2. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.</b>	NA		APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 336, SECTION A3.4; AISC LRFD, SECTION A3.3
<b>4. STEEL CONSTRUCTION CONT.</b>			
<b>B. HIGH STRENGTH BOLTING:</b>	NA	1. BEARING-TYPE CONNECTIONS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES
<b>2. SLIP-CRITICAL CONNECTIONS.</b>	NA		AWSD LRFD SECTION M2.5
<b>C. MATERIAL VERIFICATION OF STRUCTURAL STEEL</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	IBC 1705.2 STRUCTURAL STEEL GENERAL NOTES ASTM A 6 OR AISC LRFD SECTION A3.5
<b>D. MATERIAL VERIFICATION OF WELD FILLER MATERIALS</b>	NA	1. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. 2. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	STRUCTURAL STEEL GENERAL NOTES AWS, ASD, SECTION A3.8; AISC LRFD SECTION A3.5
<b>5. INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL</b>			
<b>FABRICATION &amp; IMPLEMENTATION PROCEDURES</b>	NA	FABRICATION AND IMPLEMENTATION PROCEDURES. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK. <b>EXCEPTION:</b> SPECIAL INSPECTIONS SHALL NOT BE REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR THAT IS ENROLLED IN A NATIONALLY ACCEPTED INSPECTIONS PROGRAM ACCEPTABLE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO BUILDING OFFICIAL, UPON REQUEST AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	IBC 1705.2.1 CWI, ASNT, LICENSED ENGINEER

SECTION	DESCRIPTION	IBC CODE	QUALIFICATIONS
<b>6. MASONRY CONSTRUCTION CONT.</b>			
<b>SPECIAL INSPECTIONS NOT REQUIRED PER 1704.5.1</b>			
<b>LEVEL 1 INSPECTION:</b>	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1705.4	QUALIFICATIONS BASED ON ASTM C1093
<b>A. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	1. PROPORTIONS OF SITE-PREPARED MORTAR. 2. CONSTRUCTION OF MORTAR JOINTS. 3. LOCATION OF REINFORCEMENT AND CONNECTORS. 4. PRESTRESSING TECHNIQUE 5. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	IBC 1705.4	
<b>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCING BARS. 5. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	IBC 1705.4, 1704.5.1, IBC 1704.5.2	
<b>C. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	1. GROUT SPACE IS CLEAN. 2. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. 3. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. 4. CONSTRUCTION OF MORTAR JOINTS.		
<b>D. GROUT PLACEMENT</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS. 2. GROUTING OF PRESTRESSING BONDED TENDONS.		
<b>E. PREPARATION OF ANY AT THE COVERED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
<b>F. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		
<b>G. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).	IBC 1704.5.1, IBC 1704.5.2	QUALIFICATIONS BASED ON ASTM C1093
<b>LEVEL 1 INSPECTION CONT.:</b>	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES AND EMPERICALLY DESIGNED MASONRY IN ESSENTIAL FACILITIES.	IBC 1704.5.1, IBC 1704.5.2	QUALIFICATIONS BASED ON ASTM C1093
<b>H. POST INSTALLED REINFORCING &amp; ANCHORS (EXPANSION ANCHORS, SCREW ANCHORS, ADHESIVE ANCHORS, ECT.)</b>	THE SPECIAL INSPECTOR SHALL BE ON THE JOB SITE CONTINUOUSLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSION STRENGTH, PRE-DRILLED HOLE DIMENSIONS ANCHOR SPACING, EDGE DISTANCES, MASONRY THICKNESS AND ANCHOR EMBEDMENT.	ACI 318 APPENDIX D-CH. D.9.1	"QUALIFICATIONS BASED ON ASTM E528 & ASTM C1077 OR CERTIFIED MANUFACTURER REPRESENTATIVE"
<b>DEFERRED SUBMITTALS</b>			
<b>LEVEL 2 INSPECTION:</b>	ENGINEERED MASONRY IN NON-ESSENTIAL FACILITIES.	IBC 1704.5.3	QUALIFICATIONS BASED ON C1093
<b>A. FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:</b>	1. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS. 2. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. 3. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. 4. GROUT SPACE PRIOR TO GROUTING. 5. PLACEMENT OF GROUT. 6. PLACEMENT OF PRESTRESSING GROUT.		
<b>B. THE INSPECTION PROGRAM SHALL VERIFY:</b>	1. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 2. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. 3. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. 4. WELDING OF REINFORCEMENT. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F). 6. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.		
<b>C. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.</b>	1. VERIFY COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS PROVISIONS.		QUALIFICATIONS BASED ON C1093
<b>D. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.</b>			
<b>E. TESTING OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.</b>	1. TEST ONE SET OF MORTAR CUBES PER 2000 sf OR PORTION THEREOF. 2. TEST ONE SET OF GROUT CYLINDERS PER 2000 sf OR PORTION THEREOF. 3. TEST ONE PRISM PER 6000 sf OR PORTION THEREOF. (SUBMITTED PRISM WILL BE ACCEPTABLE FOR FIRST PRISM TEST).		QUALIFICATIONS BASED ON C1093

**NOTES:**

- THESE INSPECTIONS DO NOT RELIEVE ENGINEER FROM STRUCTURAL OBSERVATIONS AS MAY REQUIRED BY IBC 2018, SECTION 1709, AND/OR CONTRACTUAL REQUIREMENTS OF ARCHITECT/CLIENT, (I.E. C141).
- DEFINITIONS/TERM: PERIODIC VS. CONTINUOUS INSPECTIONS - REF. IBC SECTION 1702
- ADSC - THE INTERNATIONAL ASSOCIATION OF FOUNDATION DRILLING
- ASNT - AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING
- ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
- AWIS - AMERICAN WELDING SOCIETY
- CWI - CERTIFIED WELDING INSPECTOR
- CRSI - CONCRETE REINFORCING STEEL INSTITUTE
- PCI - PRECAST/PRESTRESSED CONCRETE INSTITUTE
- PTI - POST-TENSIONING INSTITUTE
- NA - NOT APPLICABLE

\*TESTING AND INSPECTION DIRECTED BY ASTM E529 GUIDELINES.

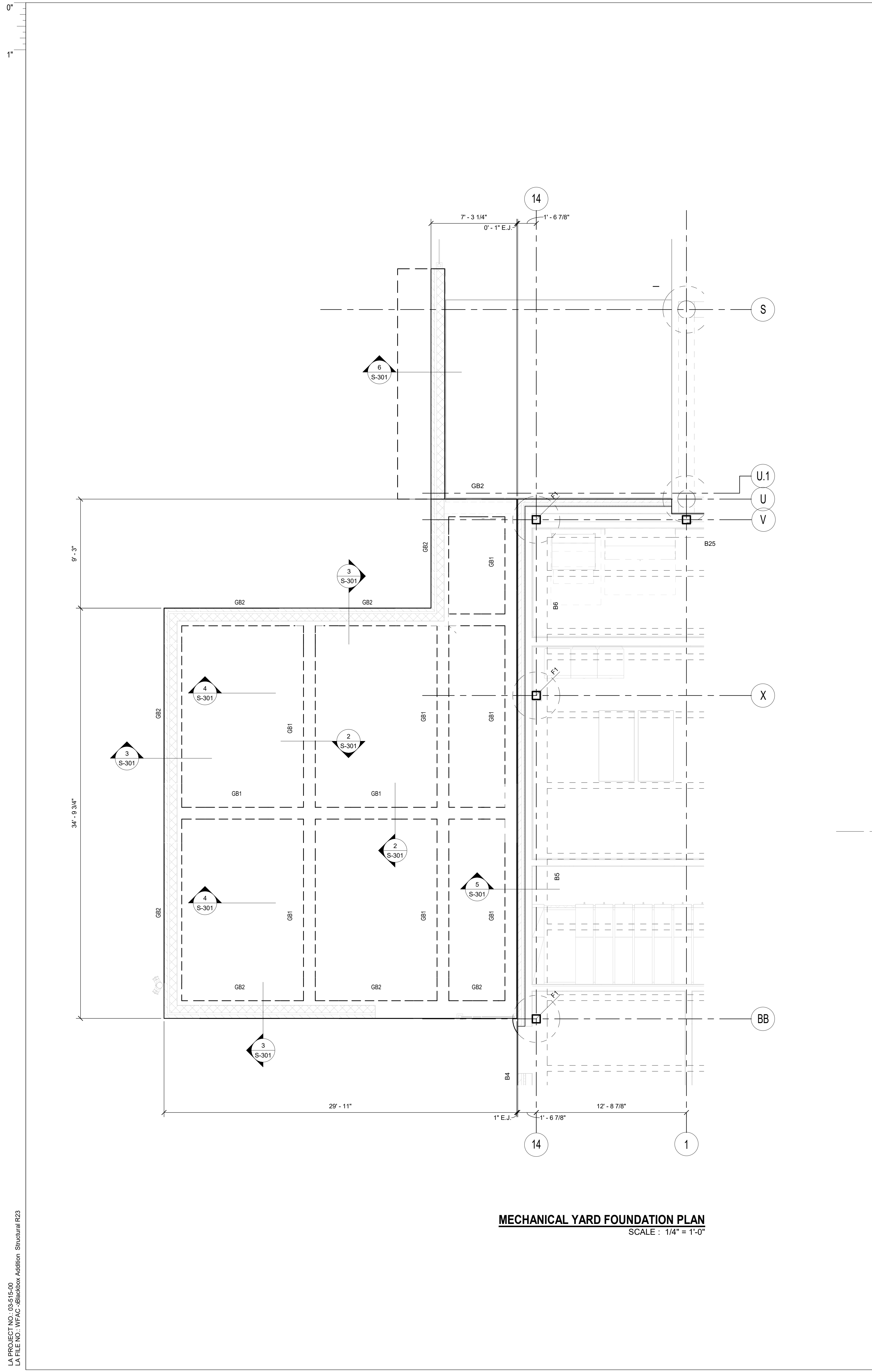
BUILDING CONSTRUCTION	DEFERRED SUBMITTALS		DESCRIPTION
	YES	NO	
STEEL		X	-
CONCRETE		X	-
WOOD		X	-

ISSUE FOR CONSTRUCTION

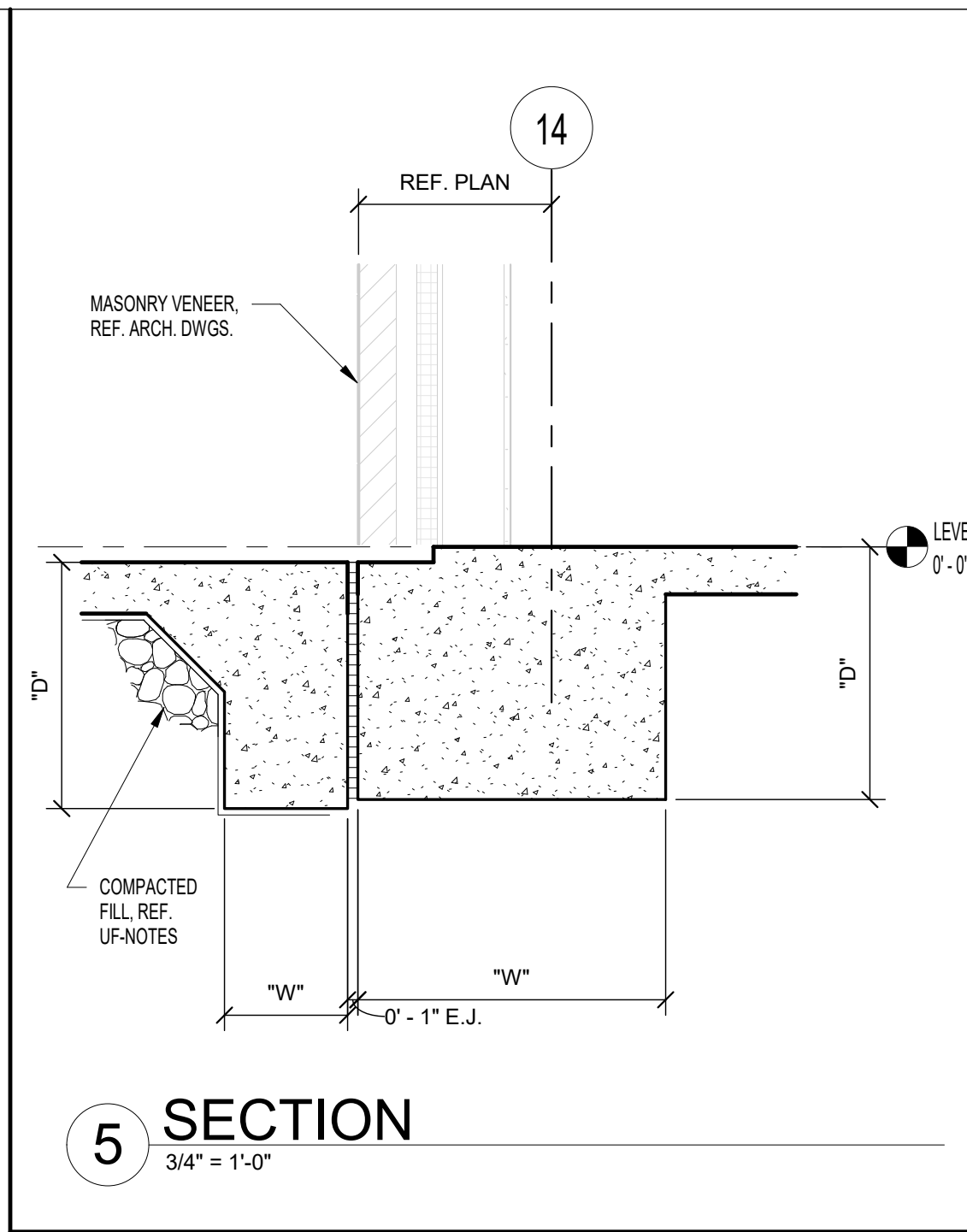




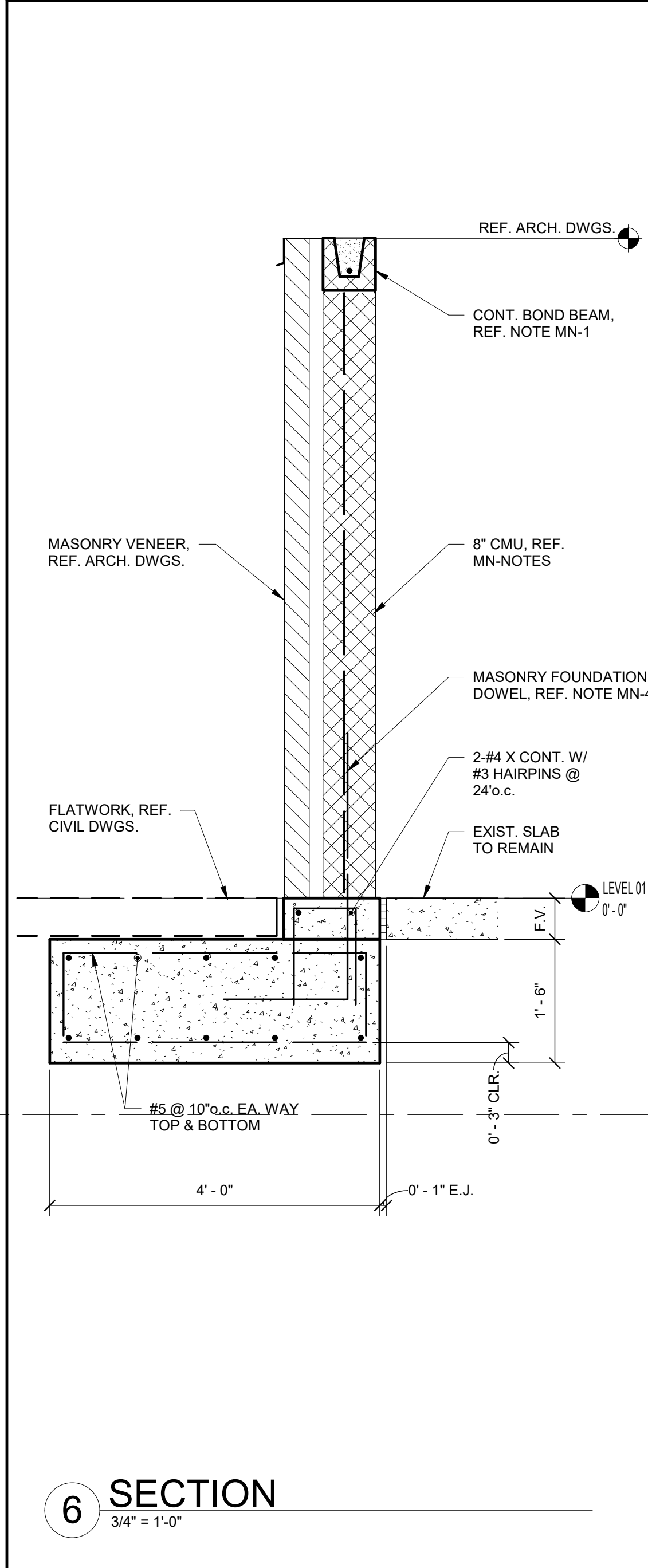




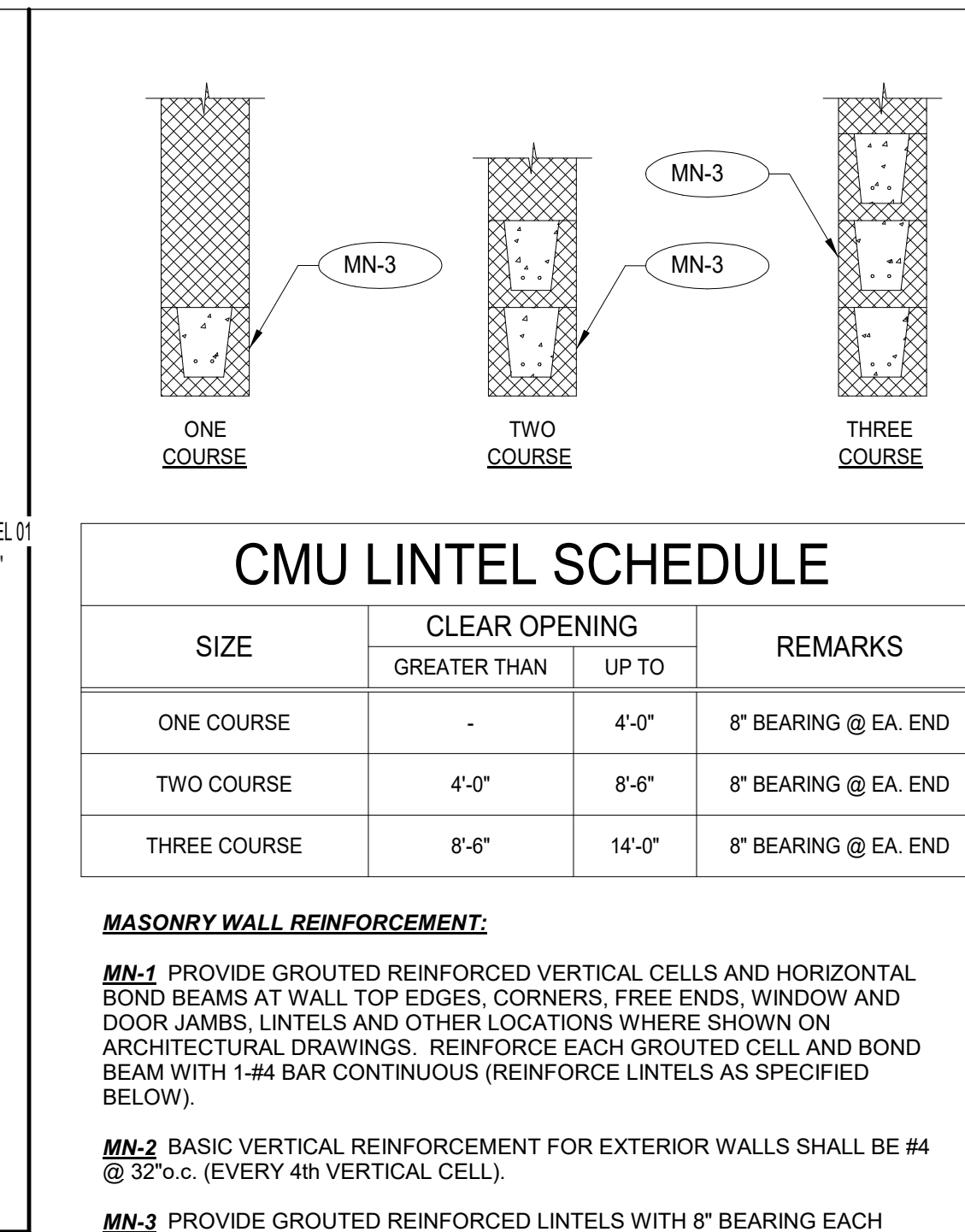
**MECHANICAL YARD FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



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

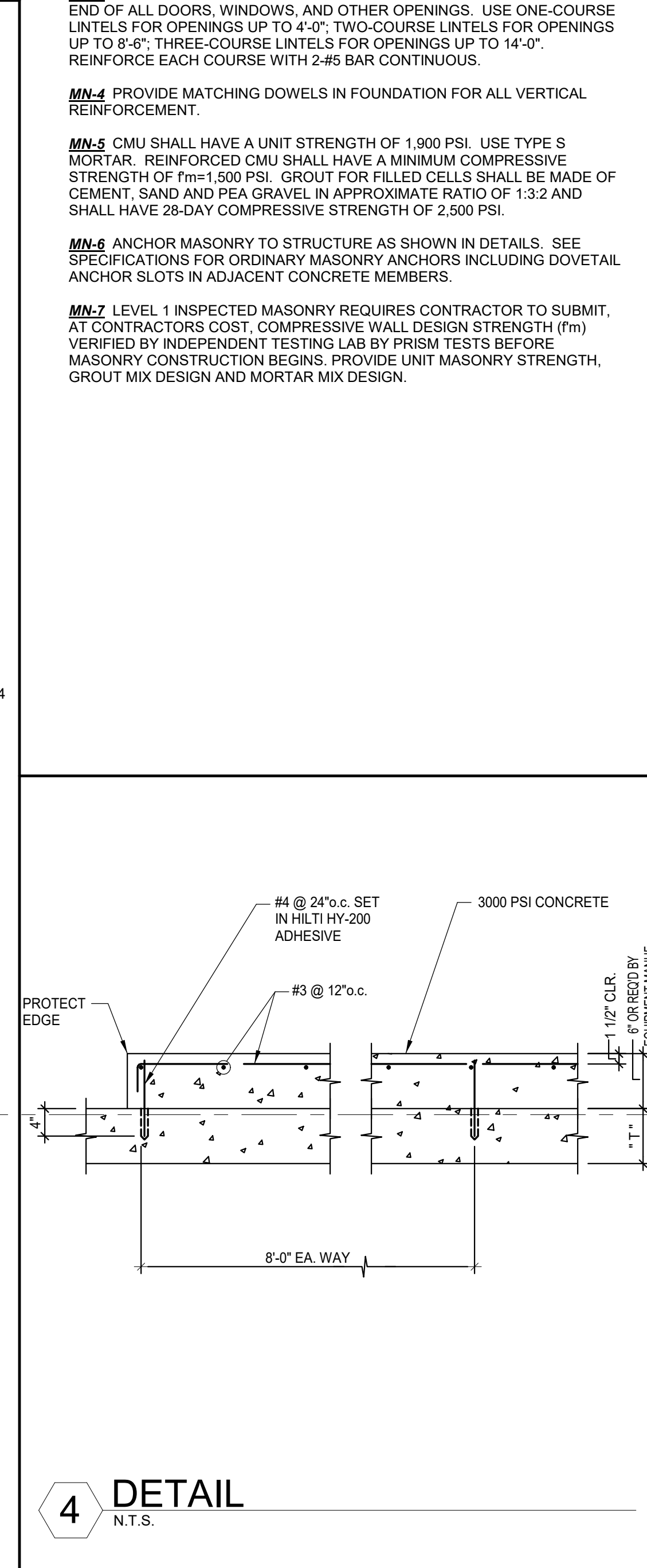


**6 SECTION**  
3/4" = 1'-0"

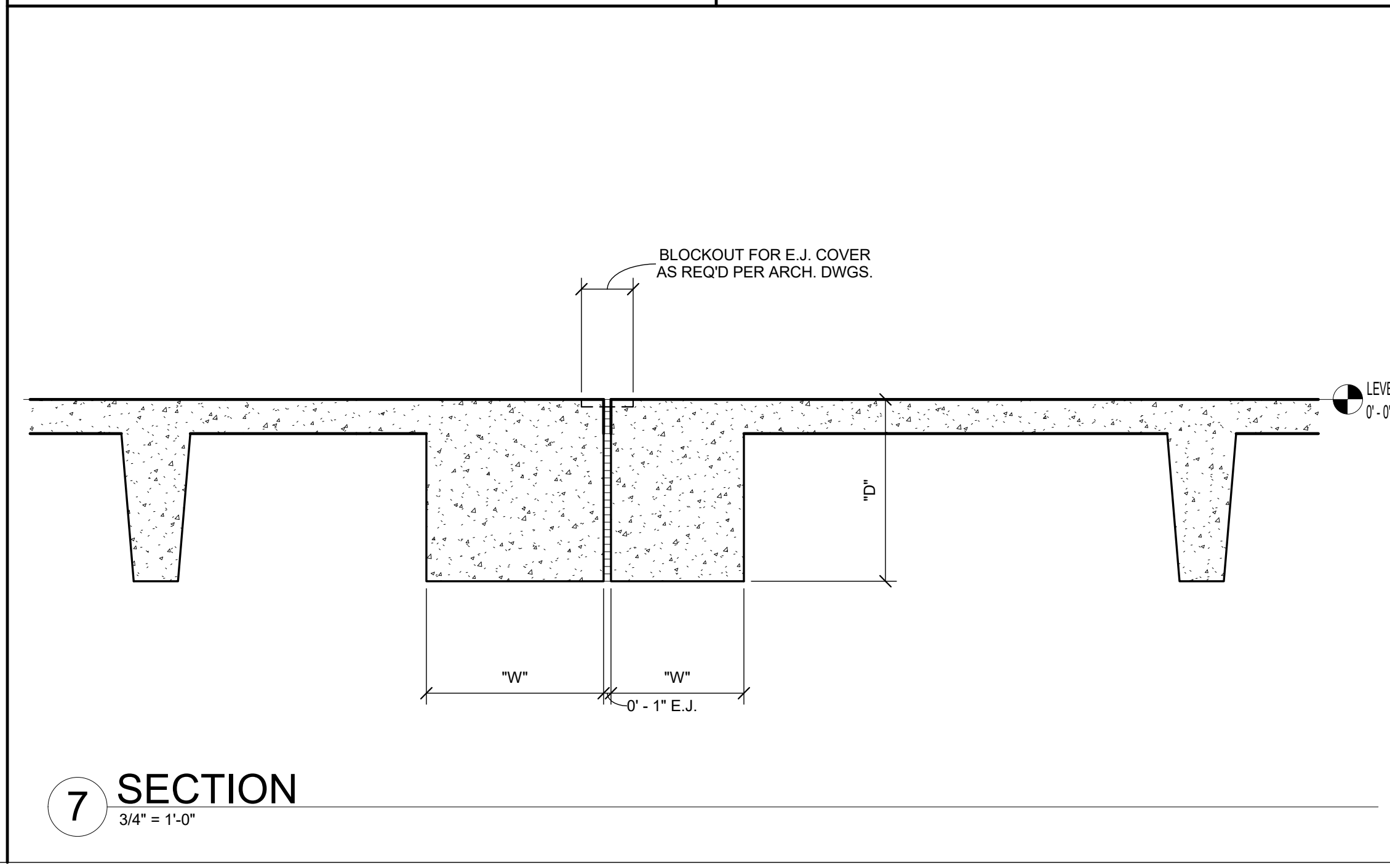


**CMU LINTEL SCHEDULE**

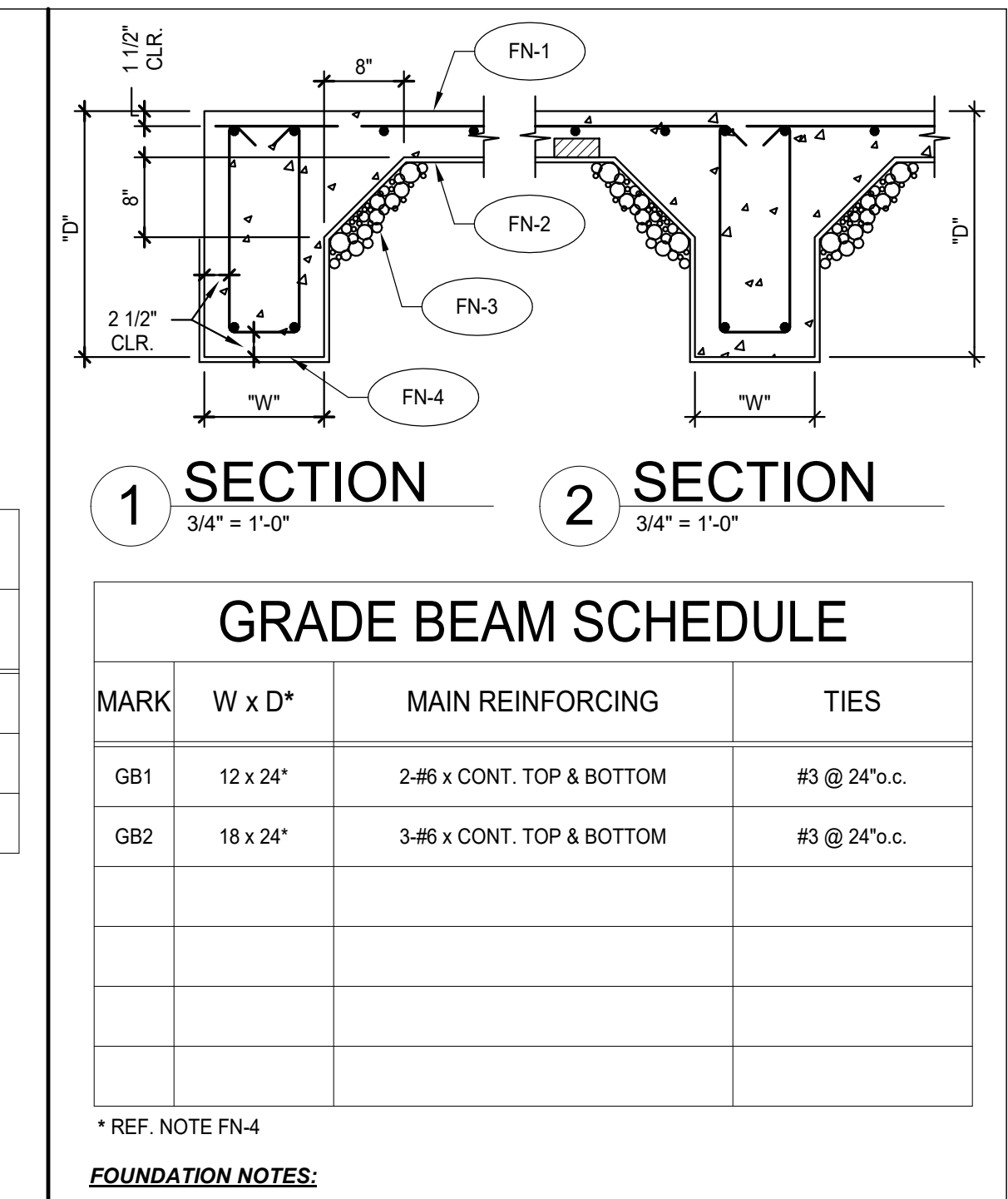
- MASONRY WALL REINFORCEMENT:**
- MN-1** PROVIDE GROUTED REINFORCED VERTICAL CELLS AND HORIZONTAL BOND BEAMS AT WALL TOP EDGES, CORNERS, FREE ENDS, WINDOW AND DOOR JAMBS, LINTELS AND OTHER LOCATIONS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. REINFORCE EACH GROUTED CELL AND BOND BEAM WITH 1-#4 BAR CONTINUOUS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



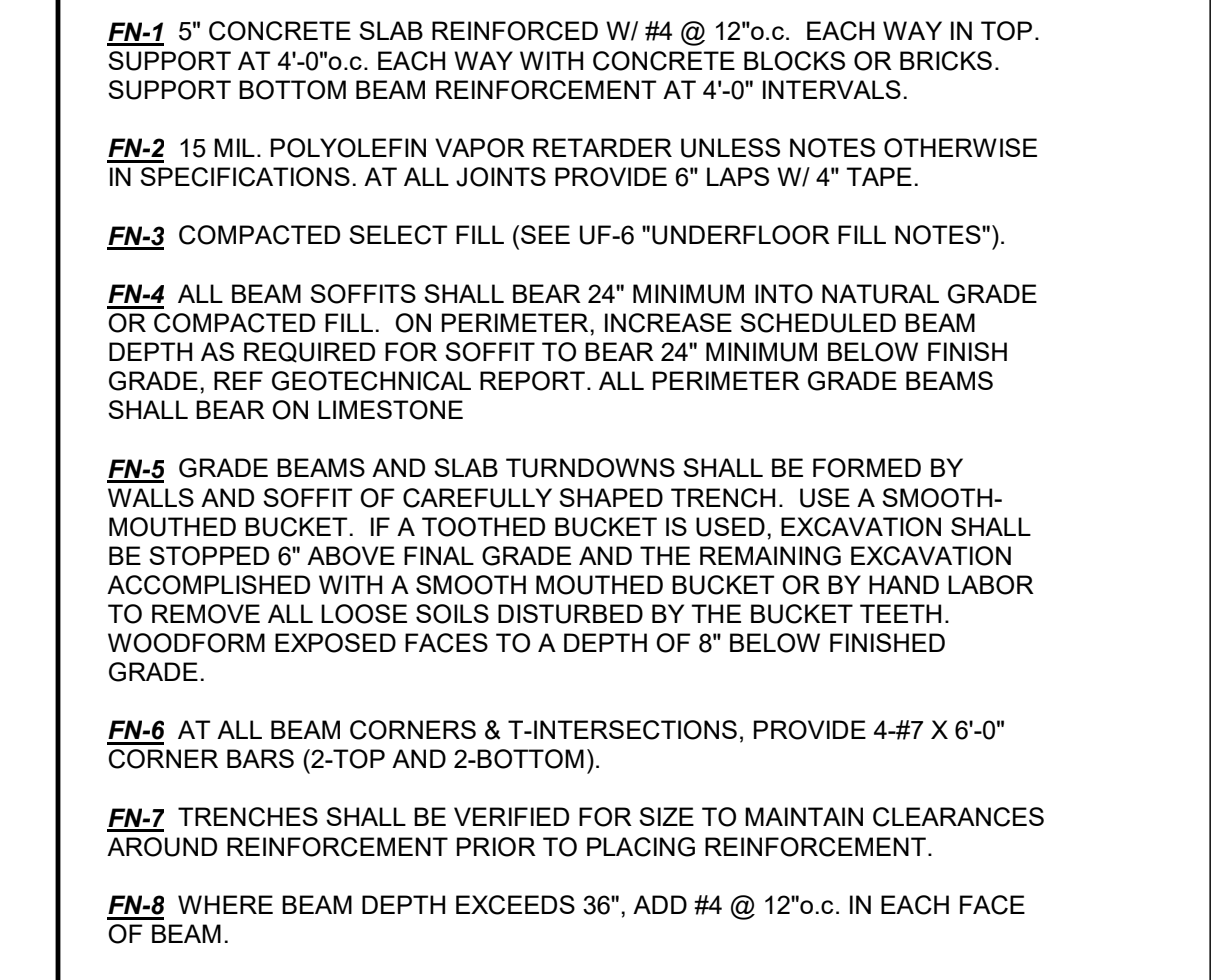
**4 DETAIL**  
N.T.S.



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

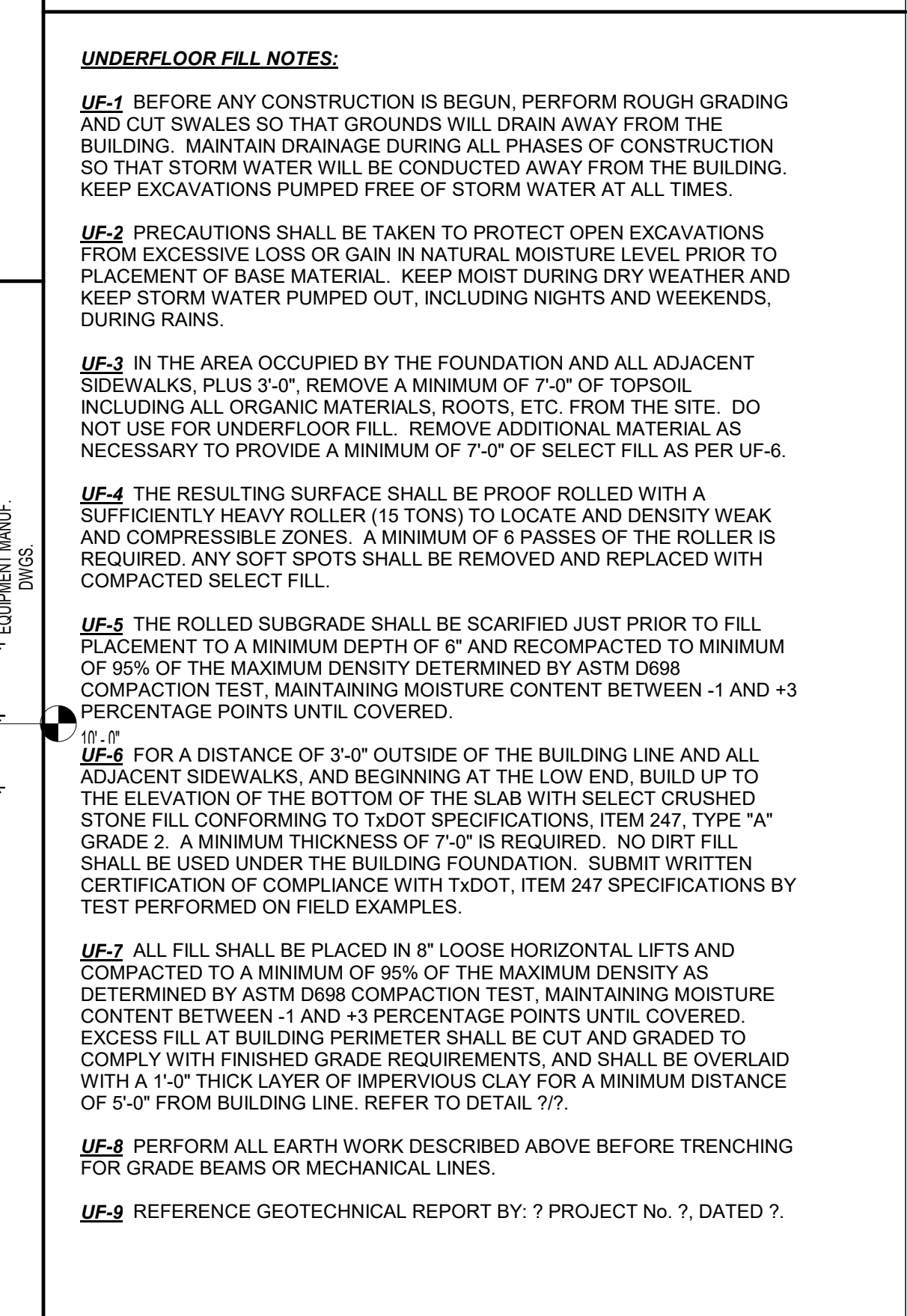


**1 SECTION** 3/4" = 1'-0"     **2 SECTION** 3/4" = 1'-0"



**GRADE BEAM SCHEDULE**

- 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 OVERLAID WITH A 1'-0" THICK LAYER OF IMPERVIOUS CLAY FOR A MINIMUM DISTANCE OF 5'-0" FROM BUILDING LINE. REFER TO DETAIL 777.
  - UF-8** PERFORM ALL EARTH WORK DESCRIBED ABOVE BEFORE TRENCHING FOR GRADE BEAMS OR MECHANICAL LINES.
  - UF-9** REFERENCE GEOTECHNICAL REPORT BY: ? PROJECT No. ?, DATED ?.



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



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

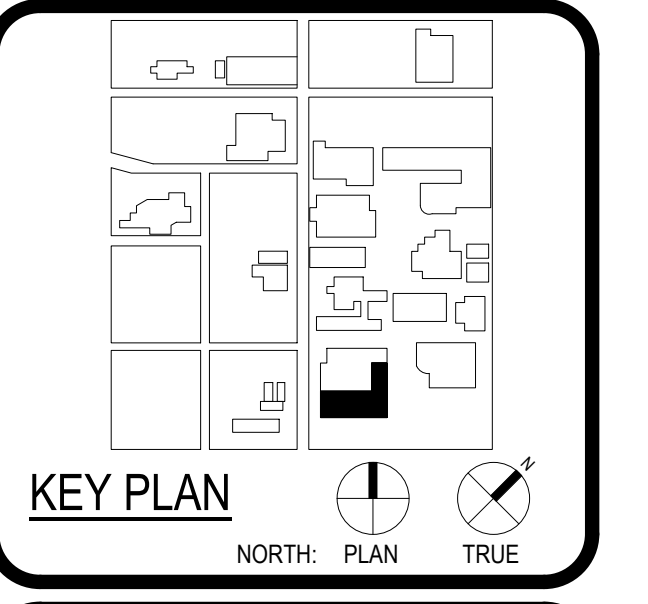


**ENGINEERING**  
568 HEIMER ROAD PH 018 979-7900  
SAN ANTONIO, TEXAS 78232 FX 010 979-7800  
TX FIRM REG. #388

**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

No.	Description	Date

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER: AB

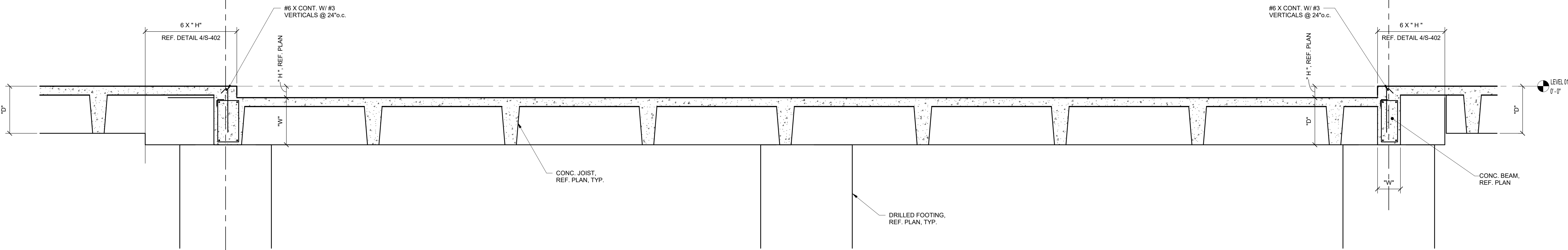
**SECTIONS, DETAILS & MECH. YARD FOUNDATION**

**S-301**



# ISSUE FOR CONSTRUCTION

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



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

EE

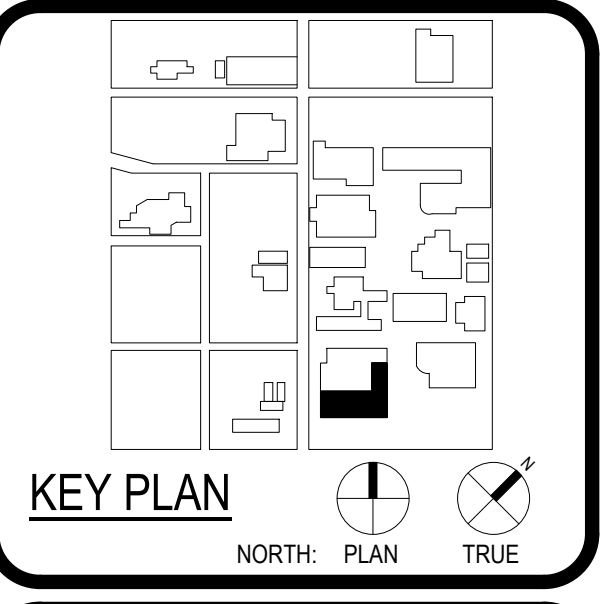
W



ARCHITECT	PBK Architects, Inc. 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 1100 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
CONSULTANT	LANDSCAPE ROSE AND DESIGN 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
STRUCTURAL	LUNDY & FRANKE ENGINEERING 548 HEIMER ROAD SAN ANTONIO, TEXAS 78232 210-529-5372 P 210-529-5372 F TX FIRM REG. #3388
MECHANICAL	MECH 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
ELECTRICAL	ELECTRICAL 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
PLUMBING	PLUMBING 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
HAZARDOUS WASTE	HAZARDOUS WASTE 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
SOILS	SOILS 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F
TRAVEL	TRAVEL 1111 W. Loop West San Antonio, TX 78204 210-224-1100 P 210-224-1100 F

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

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



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

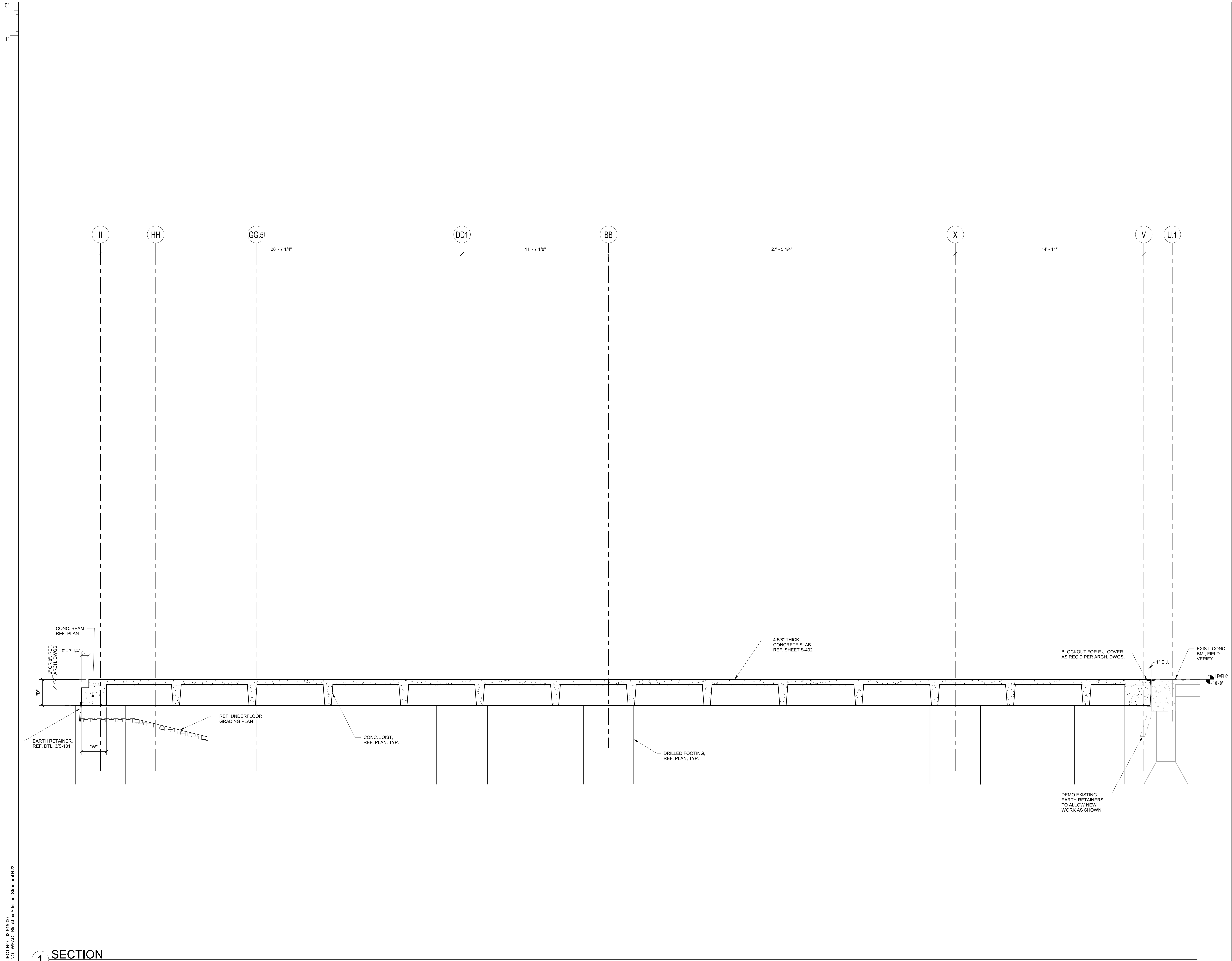
CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
2024/05/23		
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

**SECTION**

**S-302**



# ISSUE FOR CONSTRUCTION



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

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



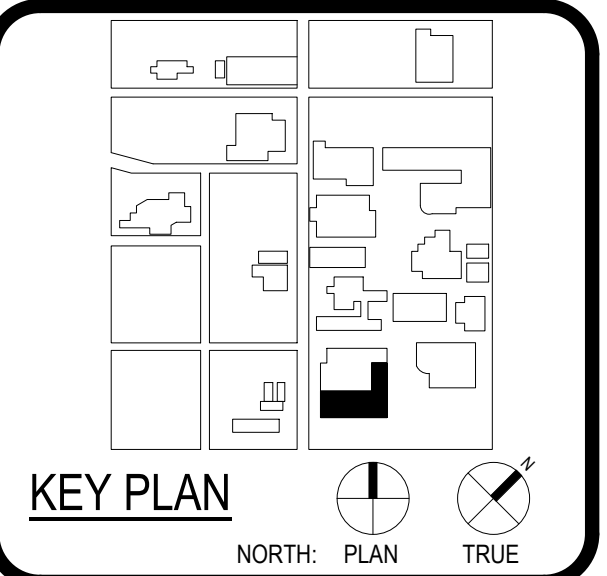
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
DATE	12/15/2024
DESIGNER	T.J. BOGUE
LANDSCAPE	
ROOF AND CEILING	
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	
PROVISIONS	
BEAM PROFESSIONALS	
MEASUREMENT	
DATE	12/15/2024

**LUNDY & FRANKE ENGINEERING**  
548 HEIMER ROAD  
SAN ANTONIO, TEXAS 78232  
TX FIRM REG. #3388

PH: (210) 979-7900  
FX: (210) 979-7800

WFAC Black Box Addition PKG 1

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



DATE: 06/12/2024

SHAWN J. FRANKE  
82639  
LICENSED PROFESSIONAL ENGINEER

*Shawn Franke*

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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER AB

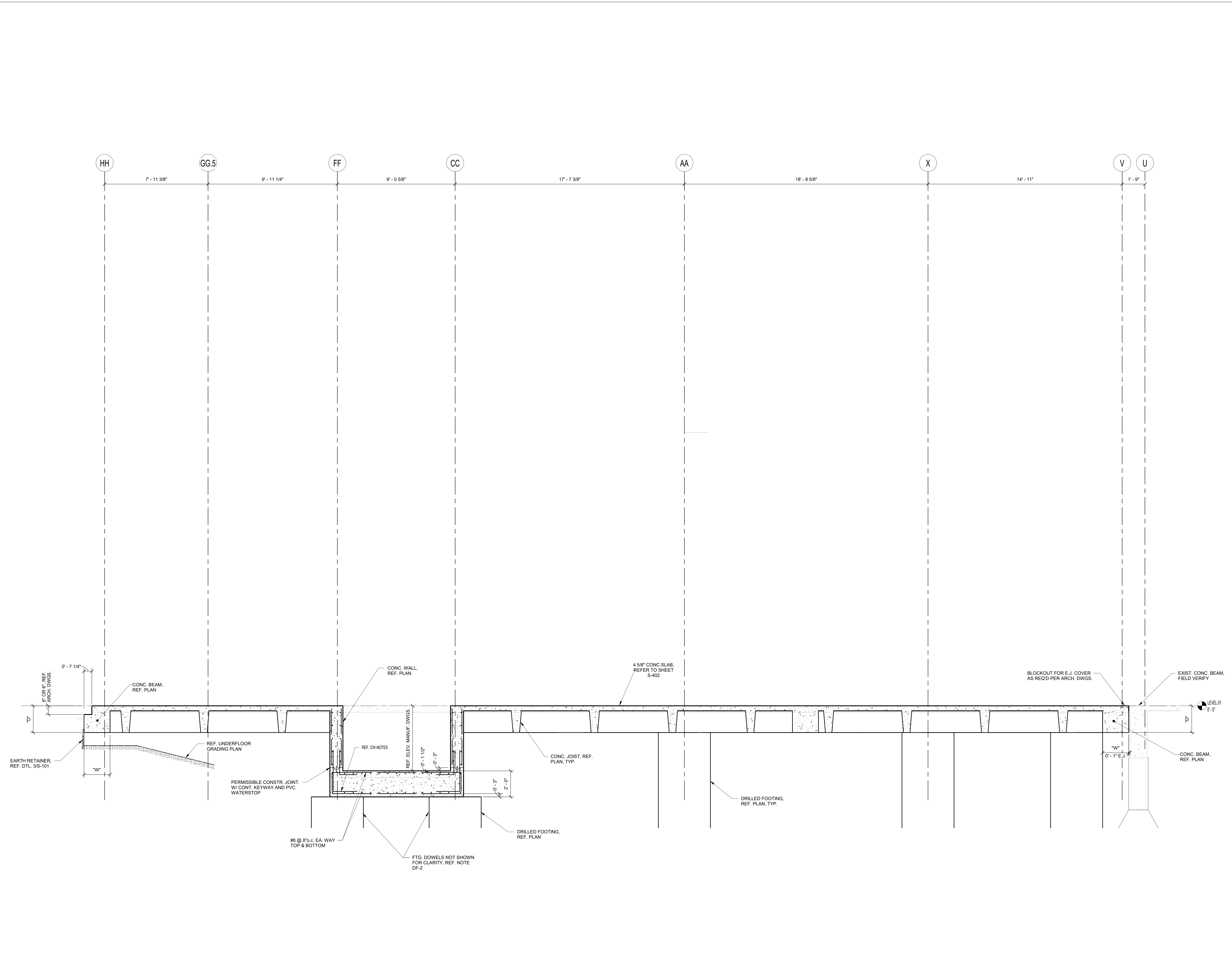
SECTION

**S-303**



# ISSUE FOR CONSTRUCTION

LA PROJECT NO.: 03/215-00  
 LA FILE NO.: WFAC-38blackbox Addition; Structural R23



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

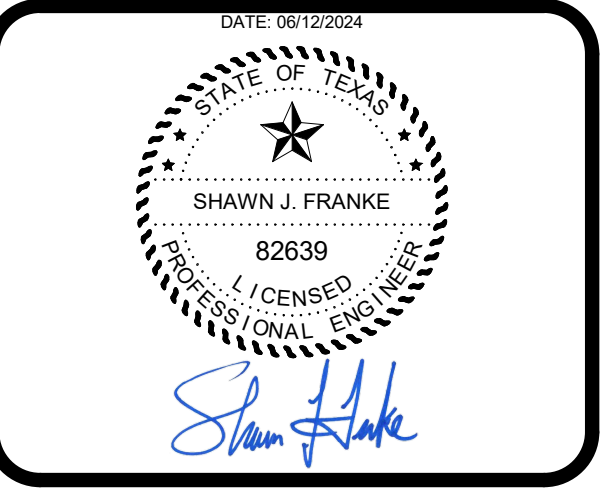
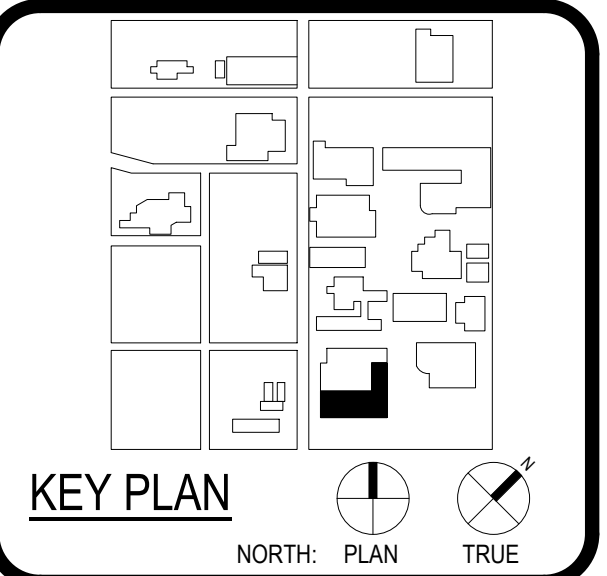


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-823-0123 P.	
210-823-0578 F.	
TX Firm BR 1608	
ASSOCIATE ARCHITECT	PBK Architects, Inc.
ARCHITECT	PBK Architects, Inc.
OWNER	ALAMO COLLEGES
DESIGNER	LUNDY & FRANKE ENGINEERING
LANDSCAPE	LUNDY & FRANKE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



WFAC Black Box Addition PKG 1

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



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

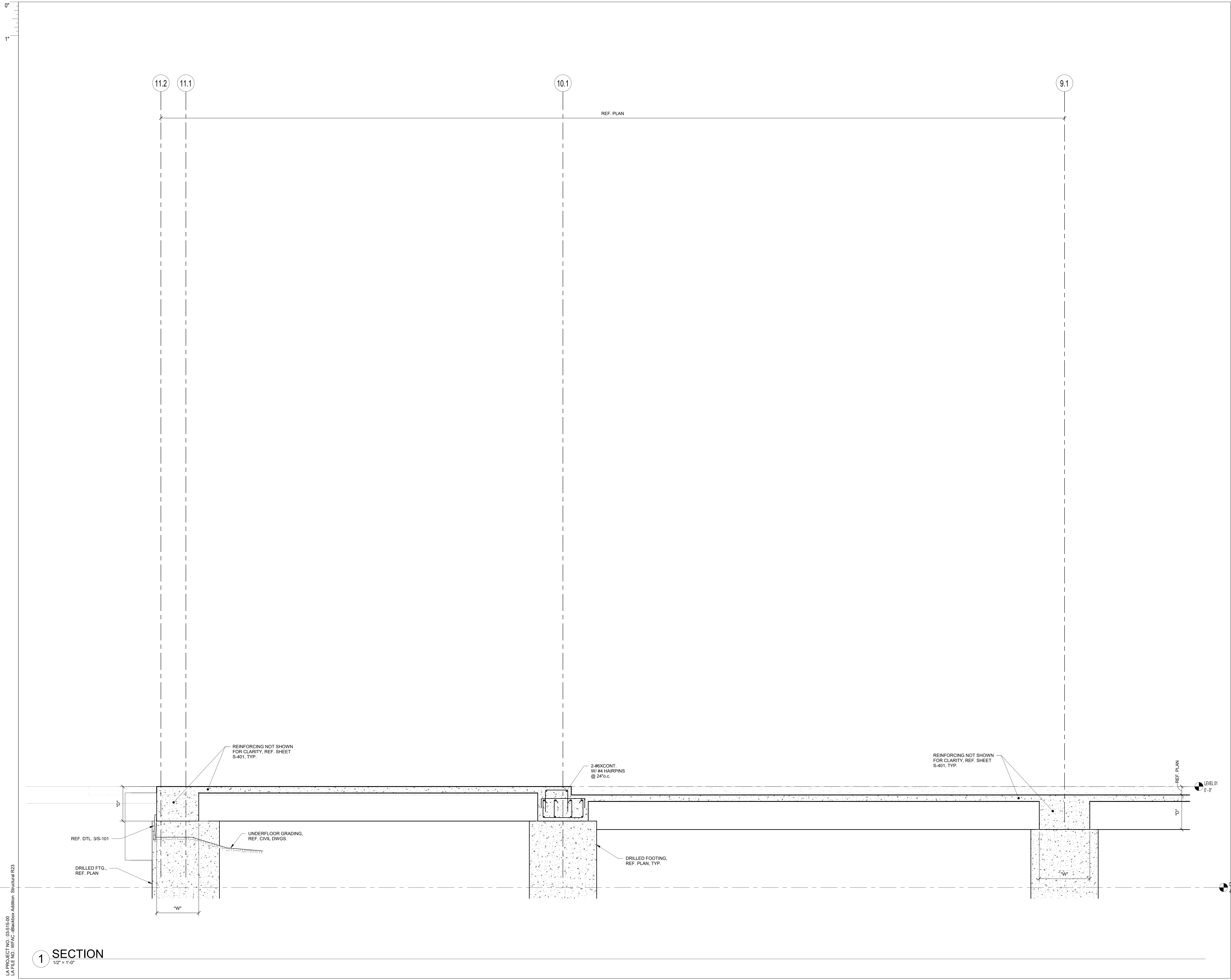
ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER AB

SECTION

**S-304**



ISSUE FOR CONSTRUCTION



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

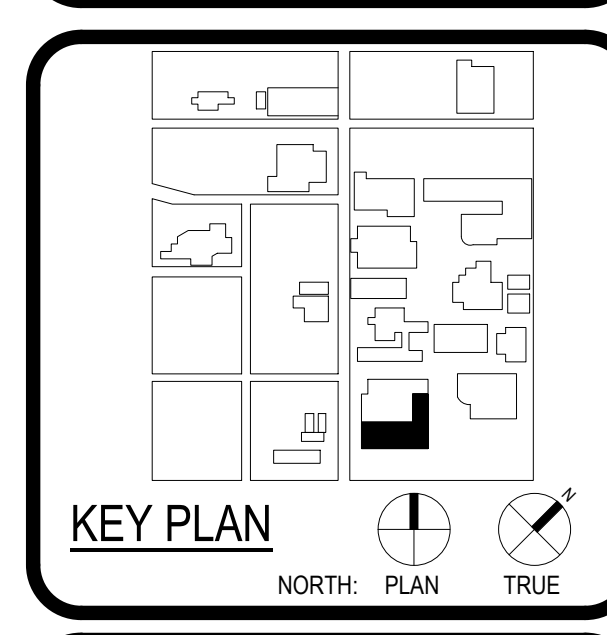
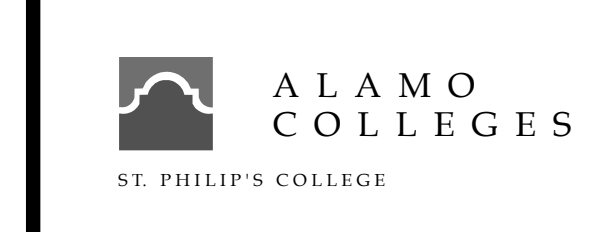


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA & ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	TRU
LANDSCAPE	TRU
ROOF AND DRIP	TRU
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M/E/P	TRU
MECHANICAL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



**WFAC Black Box Addition PKG 1**

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



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

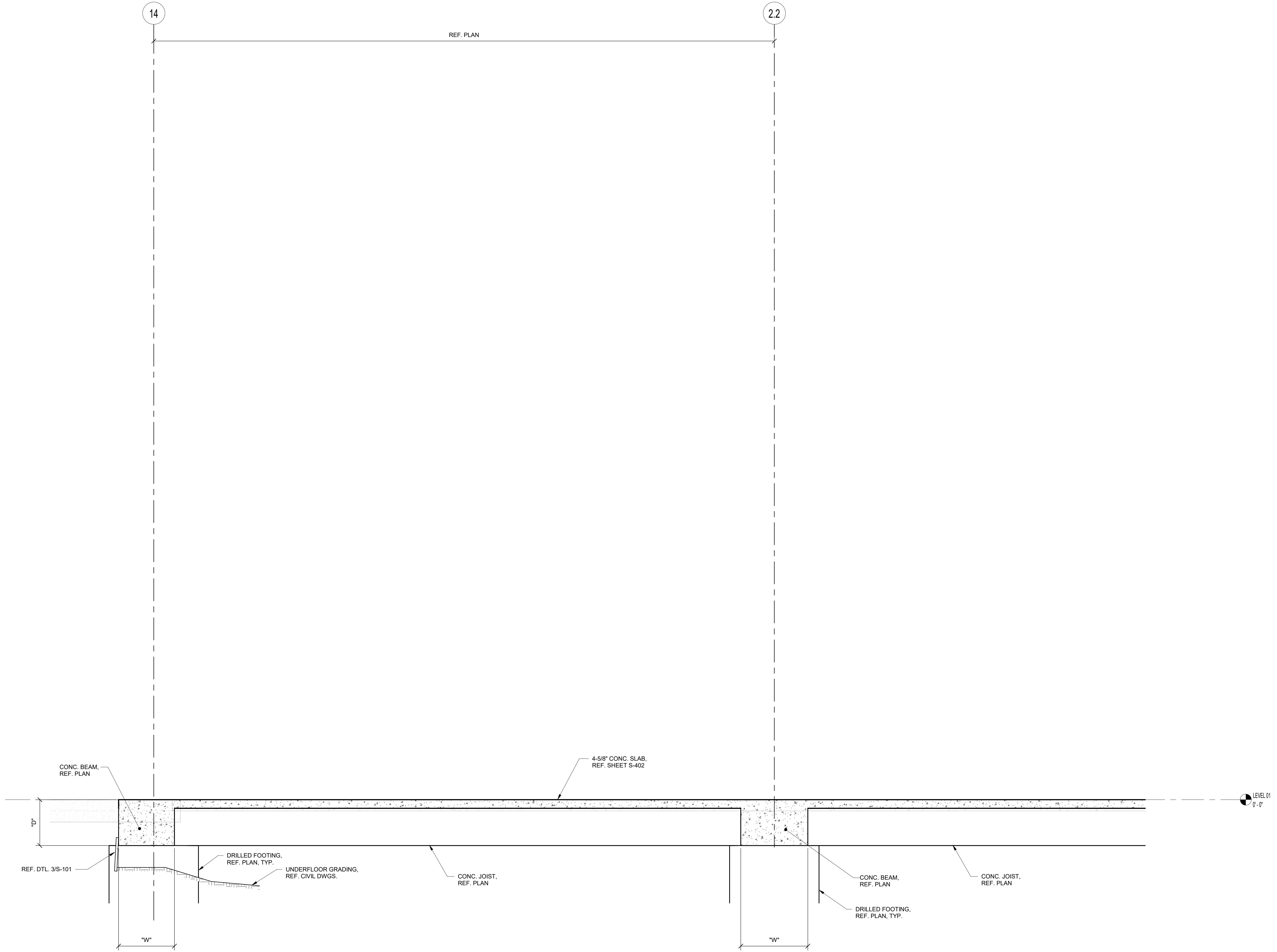
ISSUE FOR CONSTRUCTION	
BUILDING NUMBER	AB
SECTION	

S-305



# ISSUE FOR CONSTRUCTION

0'  
1'



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

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



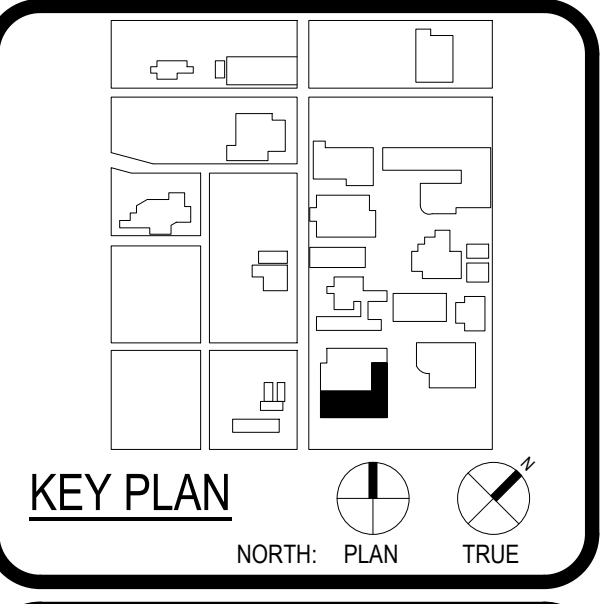
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-823-0123 P 210-823-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
OWNER	ALAMO COLLEGES
DESIGNER	ALAMO COLLEGES
LANDSCAPE	ALAMO COLLEGES
ROOF AND DRIP	ALAMO COLLEGES
STRUCTURAL	LUNDY & FRANKE ENGINEERING
M.E.P.	LUNDY & FRANKE ENGINEERING
MECHANICAL	LUNDY & FRANKE ENGINEERING
ELECTRICAL	LUNDY & FRANKE ENGINEERING
PROVIDOR	LUNDY & FRANKE ENGINEERING
BEAM PROFESSIONALS	LUNDY & FRANKE ENGINEERING
MEASUREMENT	LUNDY & FRANKE ENGINEERING
DATE	12/20/2024



**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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

ISSUE FOR CONSTRUCTION

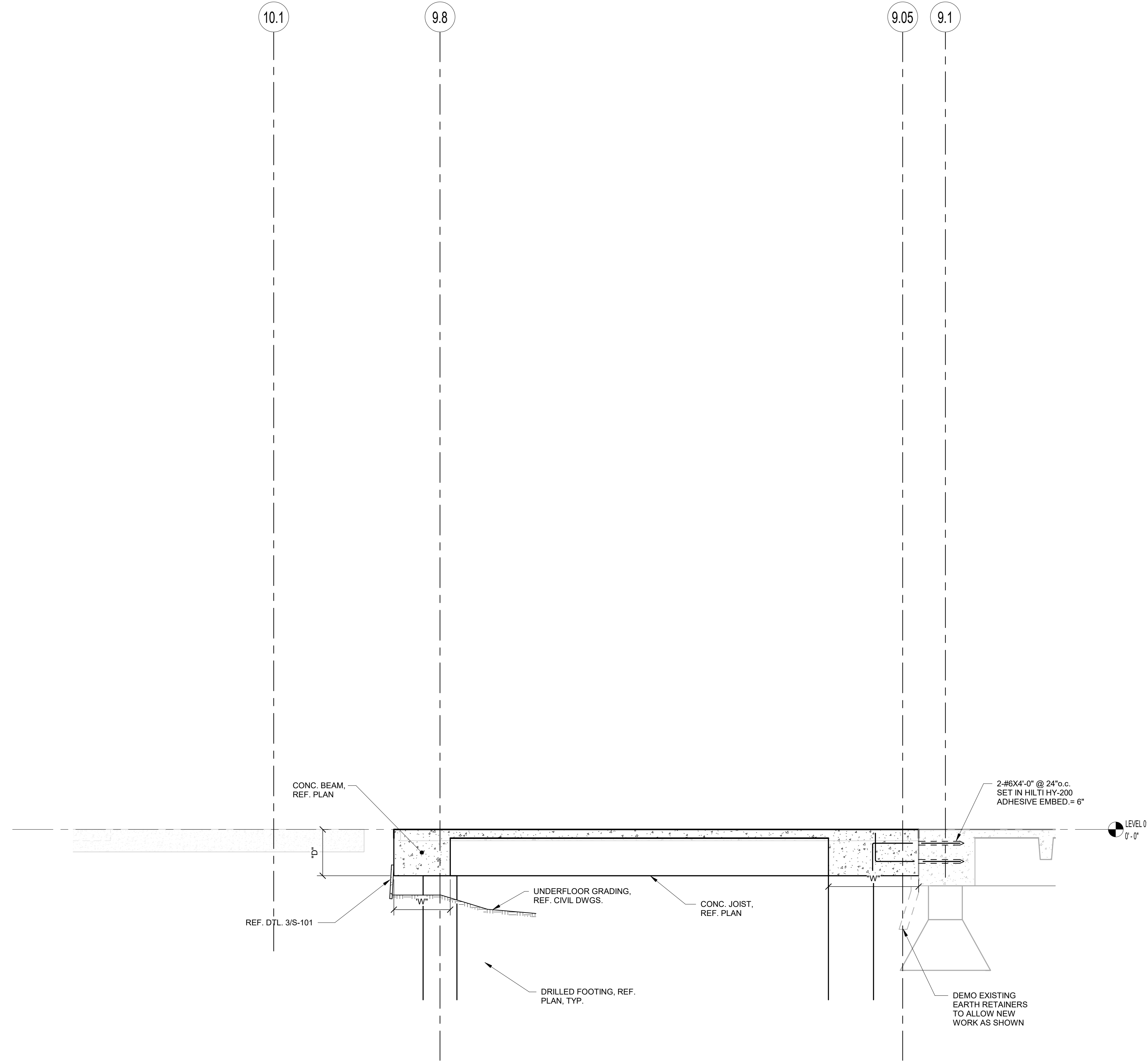
BUILDING NUMBER AB

SECTION  
**S-306**



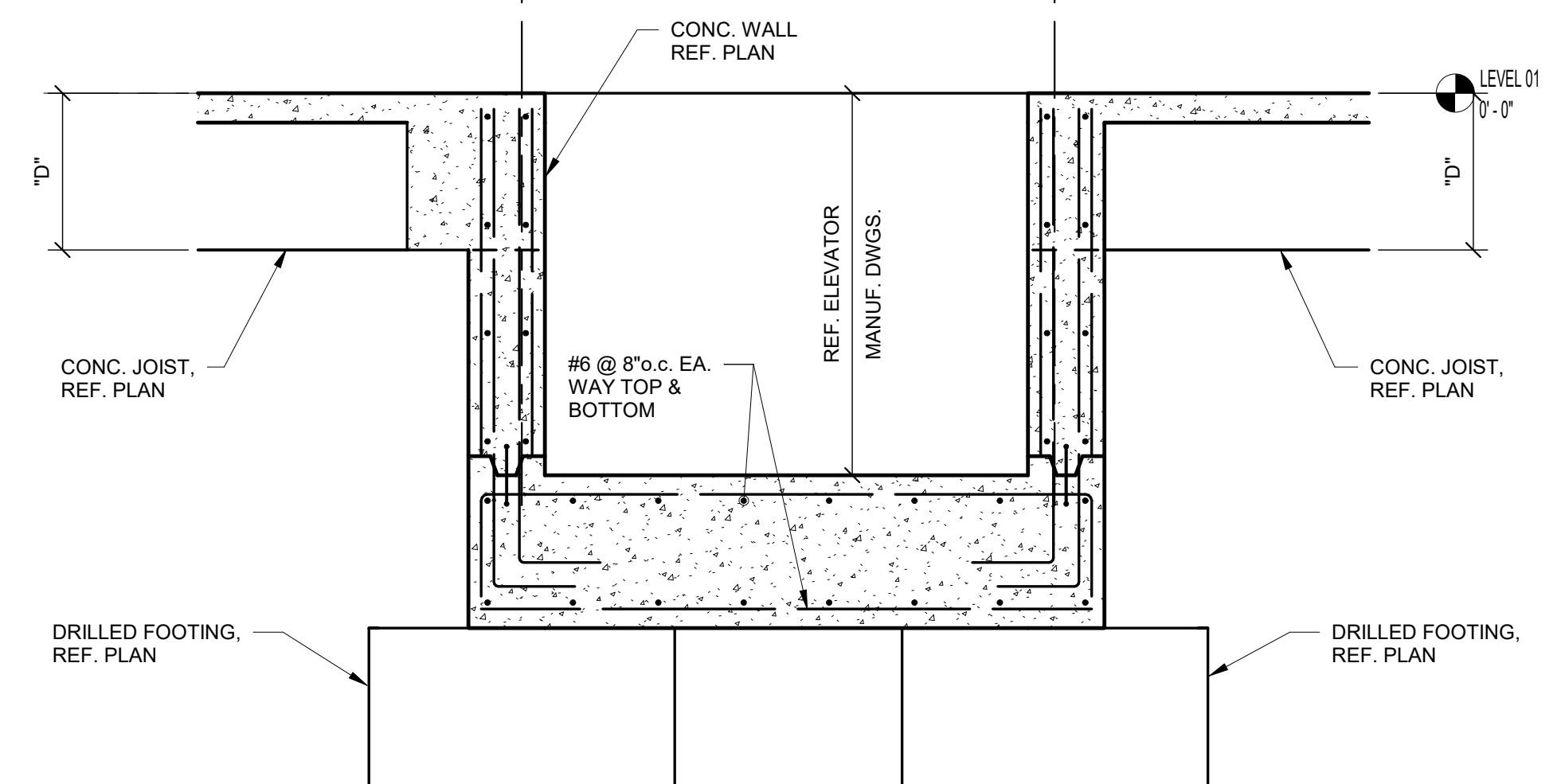
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LA PROJECT NO.: 09316-00  
LA FILE NO.: WFAC-38blackbox Addition, Structural R23



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

NOT USED



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



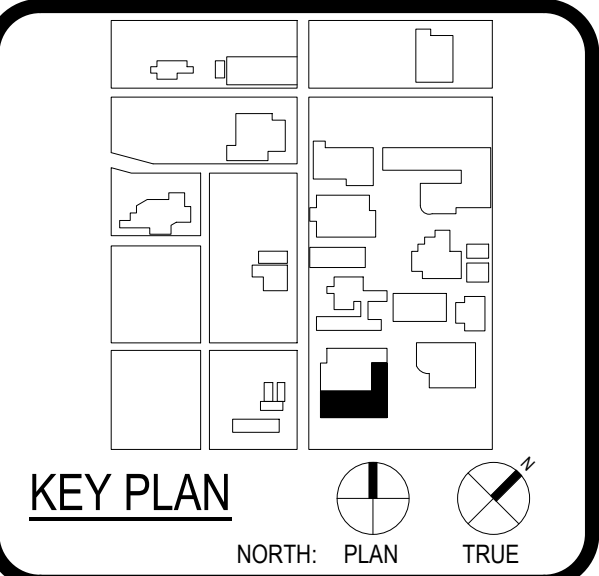
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-4123 P 210-829-5578 F TX Firm BR 1808	
ASSOCIATE ARCHITECT	BA ARCHITECTS
ARCHITECT	BA ARCHITECTS
DESIGNER	T. J. B. B. B.
LANDSCAPE	T. J. B. B. B.
ROSE AND DESIGN	T. J. B. B. B.
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MECHANICAL	T. J. B. B. B.
ELECTRICAL	T. J. B. B. B.
PLUMBING	T. J. B. B. B.
MECHANICAL	T. J. B. B. B.
MECHANICAL	T. J. B. B. B.



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



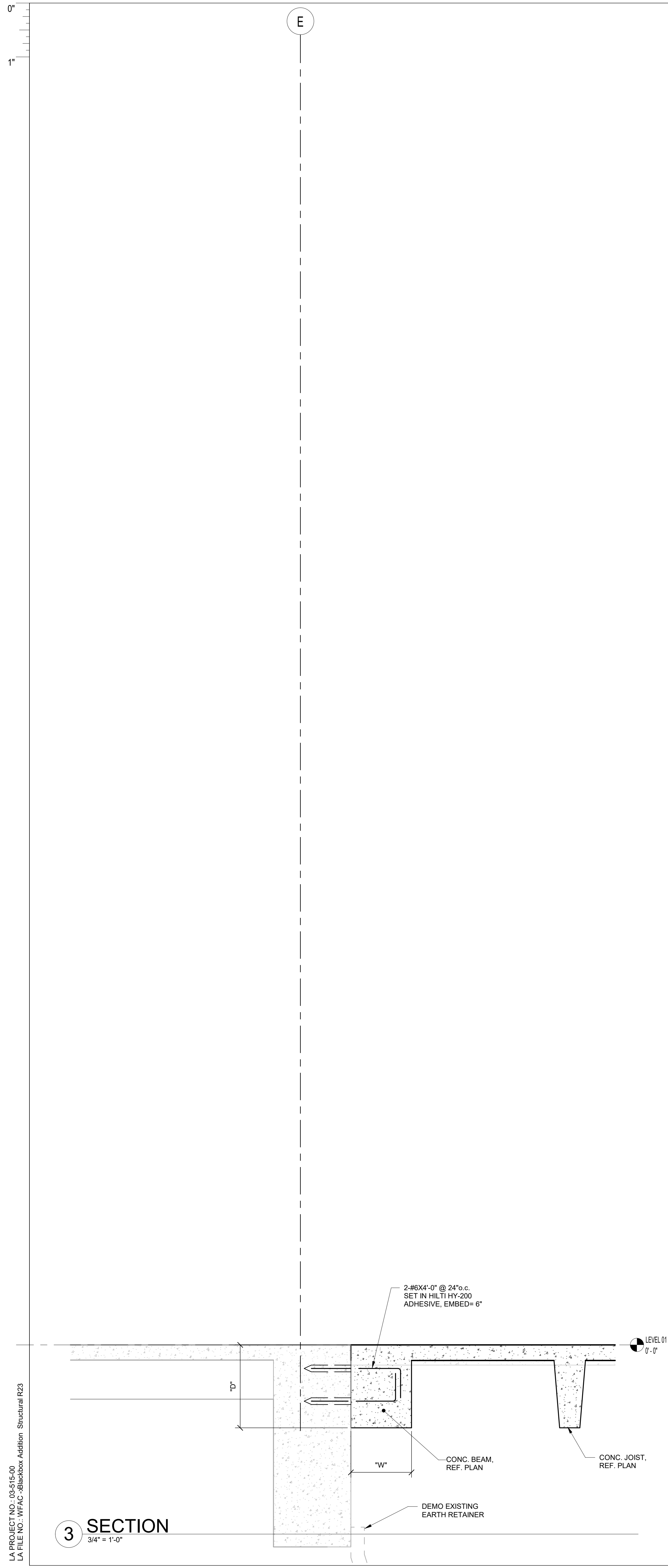
CLIENT	Alamo Colleges	
DATE	2024/05/23	PROJECT NUMBER
		230462
DRAWING HISTORY		
No.	Description	Date
ISSUE FOR CONSTRUCTION		
BUILDING NUMBER	AB	

**SECTIONS**

**S-307**



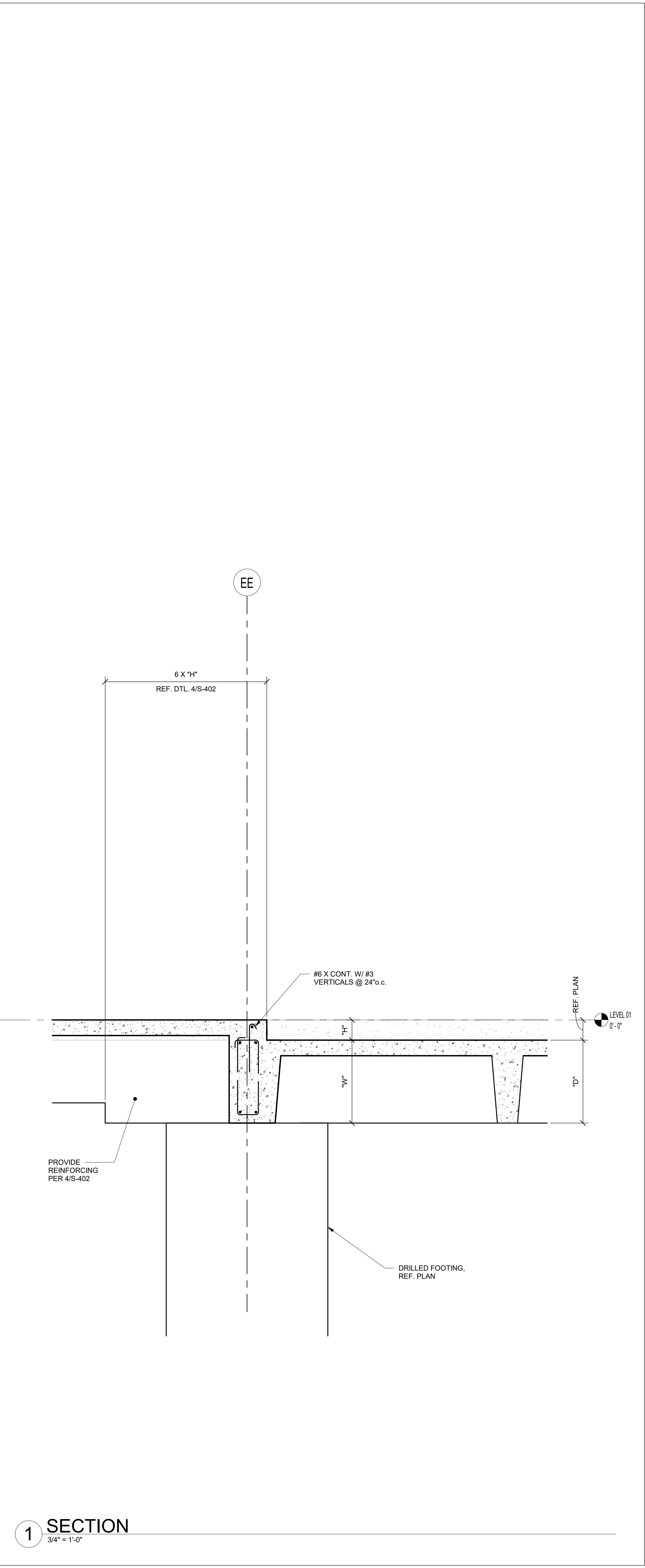
# ISSUE FOR CONSTRUCTION



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



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



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

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



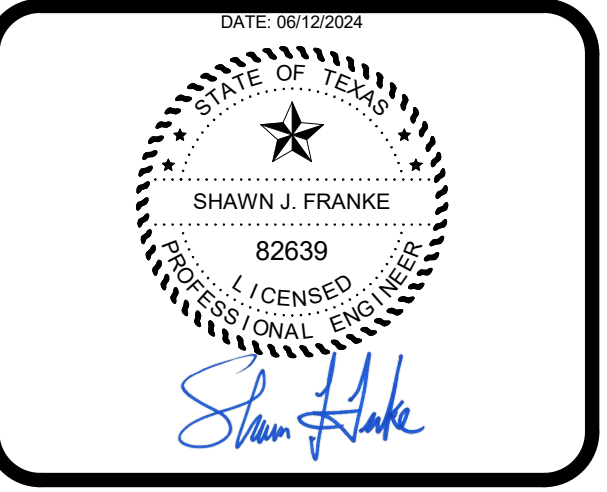
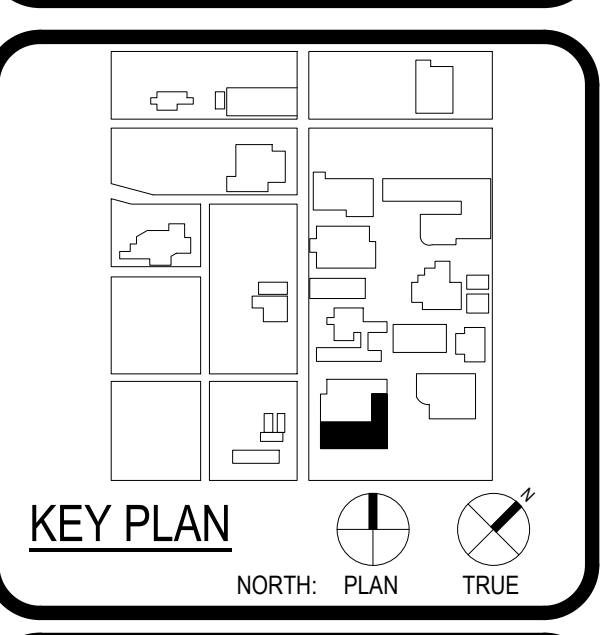
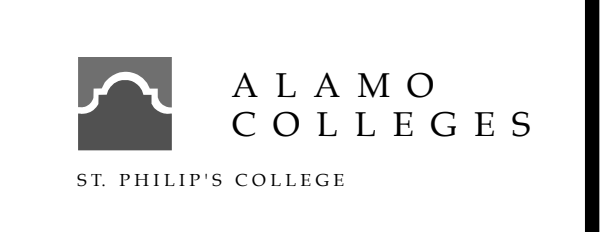
ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	BA ARCHITECTS
CONSULTANT	BA ARCHITECTS
DESIGNER	BA ARCHITECTS
LANDSCAPE	BA ARCHITECTS
ROOF AND CEILING	BA ARCHITECTS
STRUCTURAL	LUNDY & FRANKE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



**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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

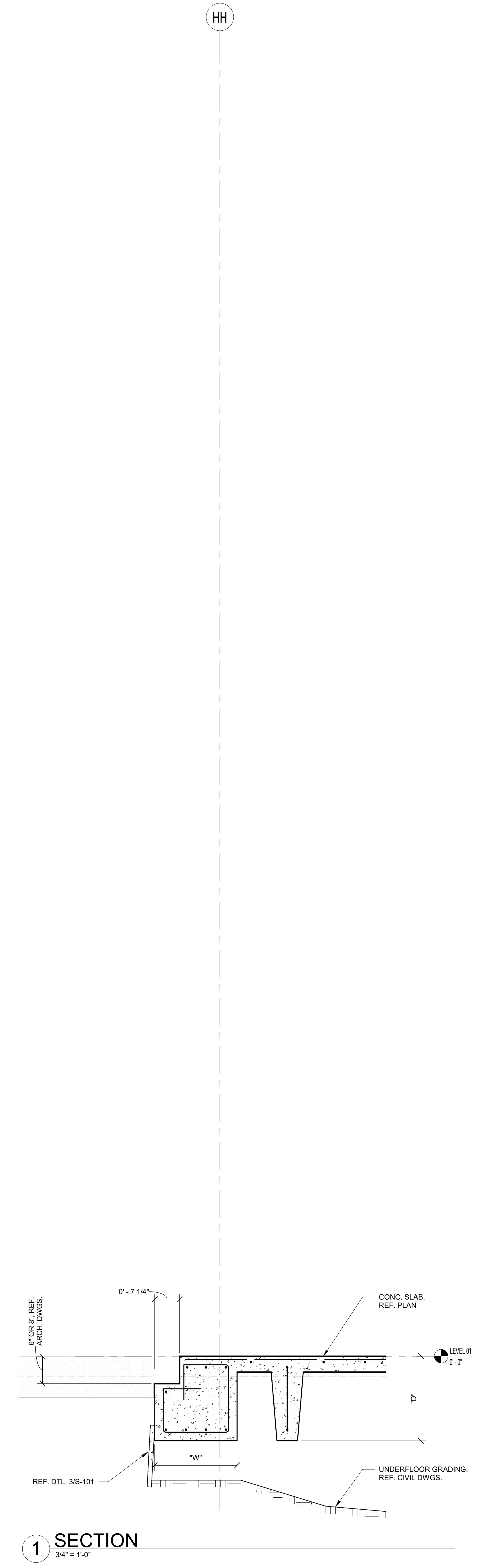
SECTIONS

**S-308**



# ISSUE FOR CONSTRUCTION

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

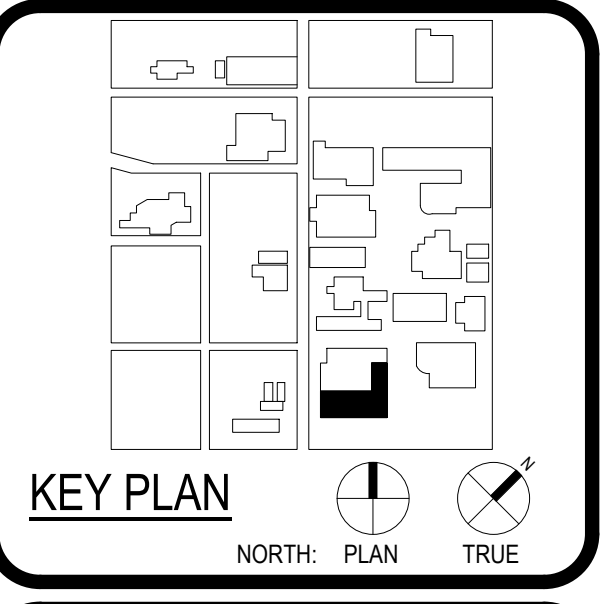


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-5578 F TX Firm BR 1606	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
DESIGNER	TRAVIS BAKER
LANDSCAPE	TRAVIS BAKER
ROOF AND DRIP	TRAVIS BAKER
STRUCTURAL	LUNDY & FRANKE ENGINEERING
MEP	TRAVIS BAKER
PROVISION	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 #4#6 AT WALL VERTICAL BARS. PROVIDE #4 U-BARS (60 DIAMETER LAPS) ENCLOSEING 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-#5X3'-0" 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.

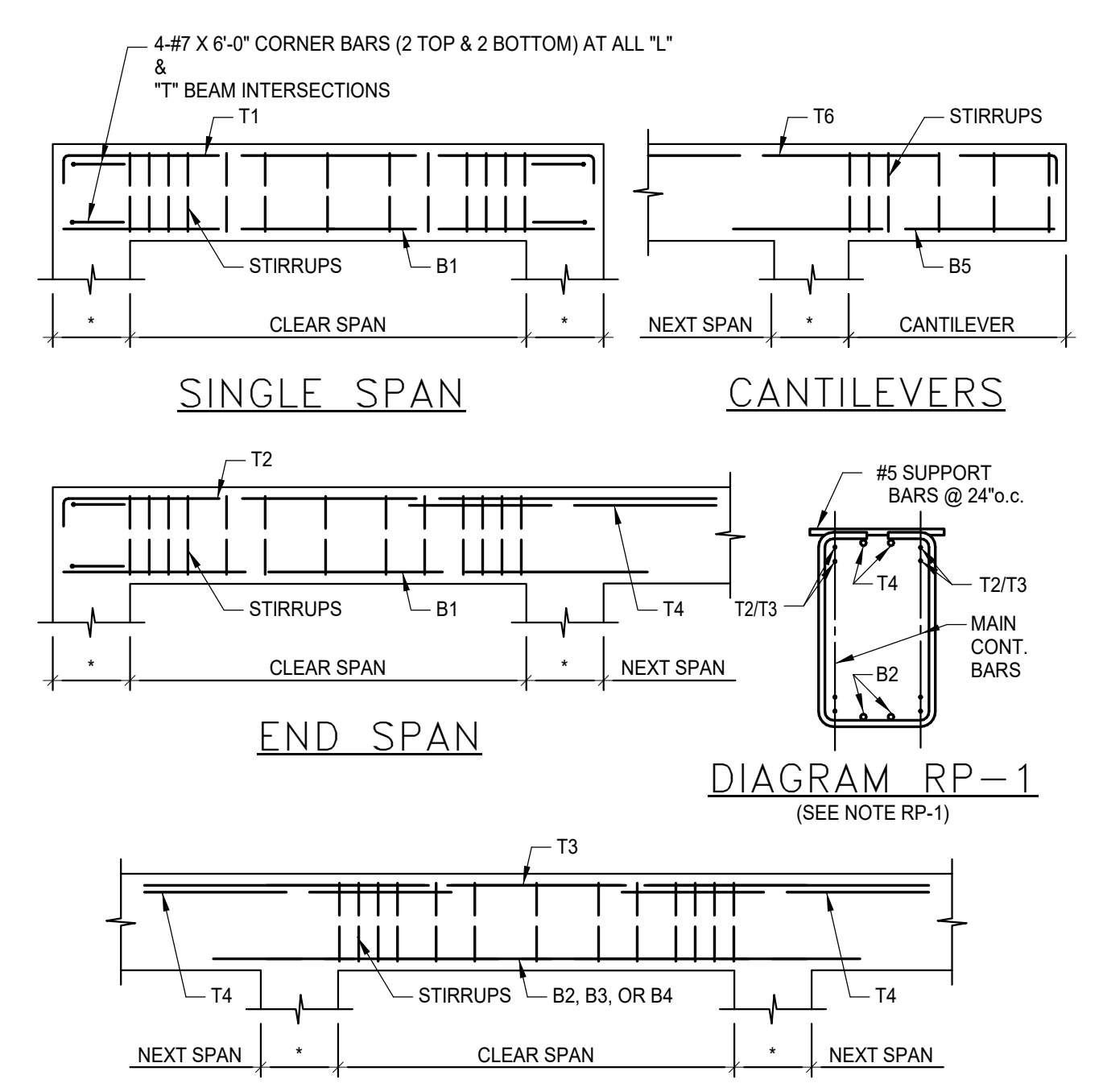
CONCRETE WALL SCHEDULE						
MK	THICKNESS	VERTICAL BARS		HORIZONTAL BARS		REMARKS
		I.S. FACE	O.S. FACE	I.S. FACE	O.S. FACE	
CW-1	12"	#5 @ 10"o.c.	#5 @ 10"o.c.	#4 @ 12"o.c.	#4 @ 12"o.c.	4000PSI REF. CW-NOTES

## 1st FLOOR CONCRETE BEAM SCHEDULE

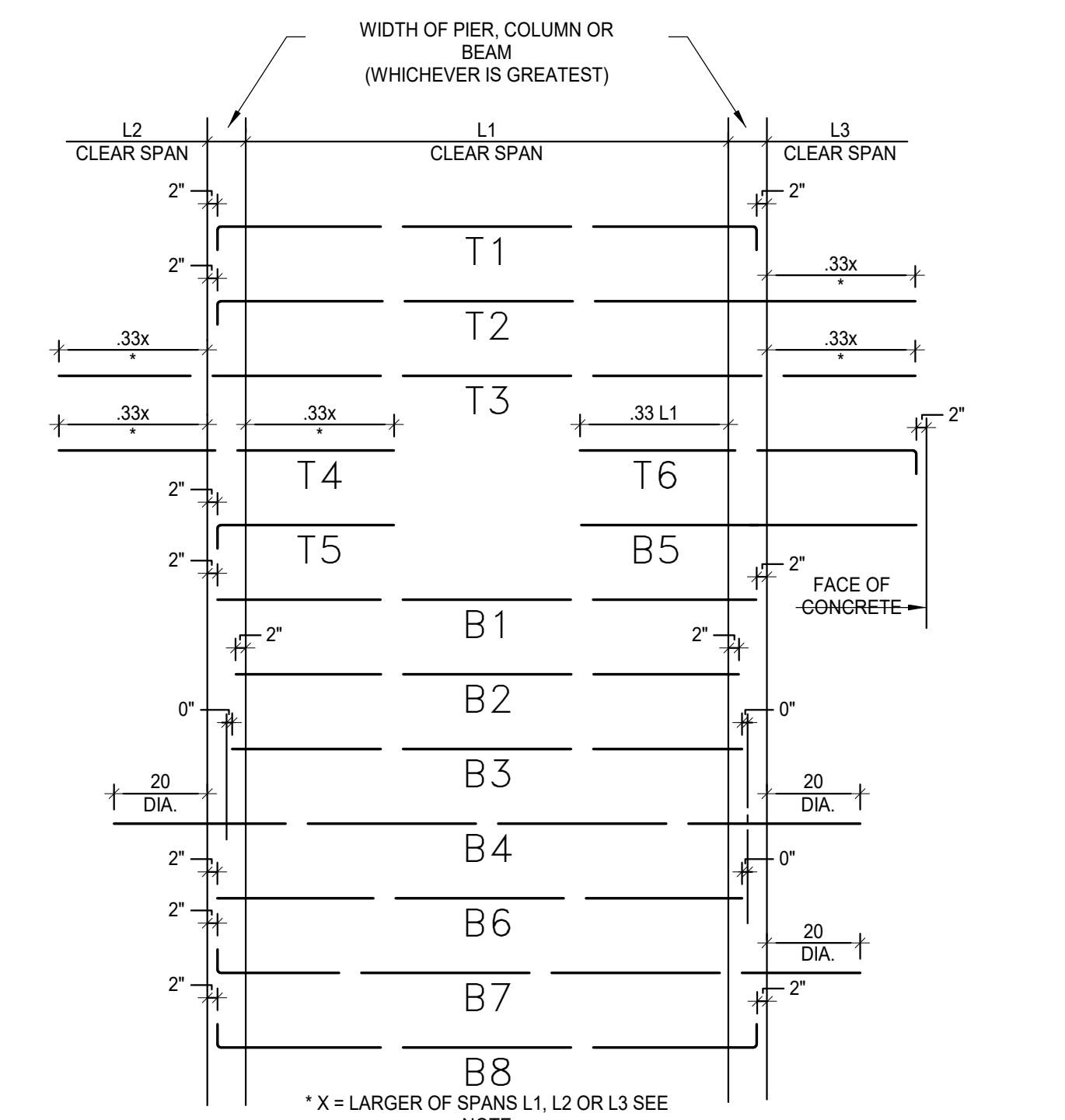
MARK	SIZE		SECT.	MAIN REINFORCING							STIRRUPS		REMARKS
	W	D		TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT			SIZE	TYPE	
				REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.			
B1	30	24 <sup>5</sup> / <sub>8</sub>		4-#8	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B2	30	24 <sup>5</sup> / <sub>8</sub>		4-#8	T1	3-#8	B1	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B3	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	
B4	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	
B5	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B6	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6	-	-	-	#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B7	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.	
B8	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B4	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.	
B9	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3	-	-	-	#4	1 @ 2.15 @ 10 BAL @ 24"o.c.	
B10	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6	-	-	-	#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	EXTEND HOOK END INTO CANT.
B11	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T6	3-#9	B3				#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	CANTILEVER
B12	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6				#4	1 @ 2.10 @ 10 BAL @ 24"o.c.	
B13	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6				#4	1 @ 2.12 @ 10 BAL @ 24"o.c.	
B14	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3				#4	1 @ 2.12 @ 10 BAL @ 24"o.c.	
B15	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B1				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B16	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B8				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B17	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B18	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B4				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B19	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T1	3-#9	B1				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	CANTILEVER
B20	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T3	3-#9	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B21	48	24 <sup>5</sup> / <sub>8</sub>		4-#9	T2	3-#9	B6				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B22	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T2	3-#8	B6				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B23	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B24	30	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B4				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B25	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B6				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B26	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B4				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B27	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B28	12	24 <sup>5</sup> / <sub>8</sub>		2-#6	T2	2-#8	B6				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B29	12	24 <sup>5</sup> / <sub>8</sub>		2-#6	T3	2-#8	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B30	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	3-#8	B1				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B31	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T2	3-#8	B7				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	EXTEND HOOK END INTO CANT.
B32	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T3	3-#8	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B33	30	24 <sup>5</sup> / <sub>8</sub>		4-#6	T6	4-#8	B5				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	CANTILEVER
B34	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B1				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B35	48	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	3-#8	B1				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B36	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B8				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B37	24	24 <sup>5</sup> / <sub>8</sub>		4-#6	T1	2-#8	B8				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B38	48	24 <sup>5</sup> / <sub>8</sub>		4-#7	T2	3-#8	B6				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	
B39	48	24 <sup>5</sup> / <sub>8</sub>		4-#7	T3	3-#8	B3				#4	1 @ 2.6 @ 10 BAL @ 24"o.c.	

**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



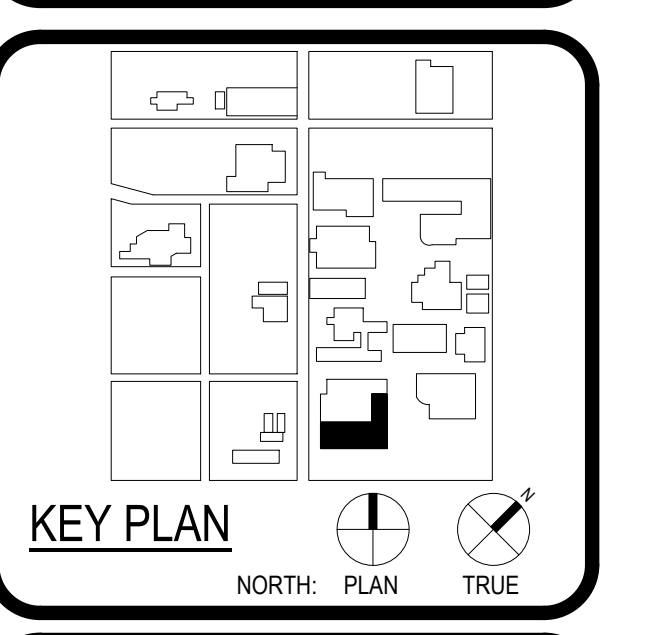
### REINFORCING BAR TYPES



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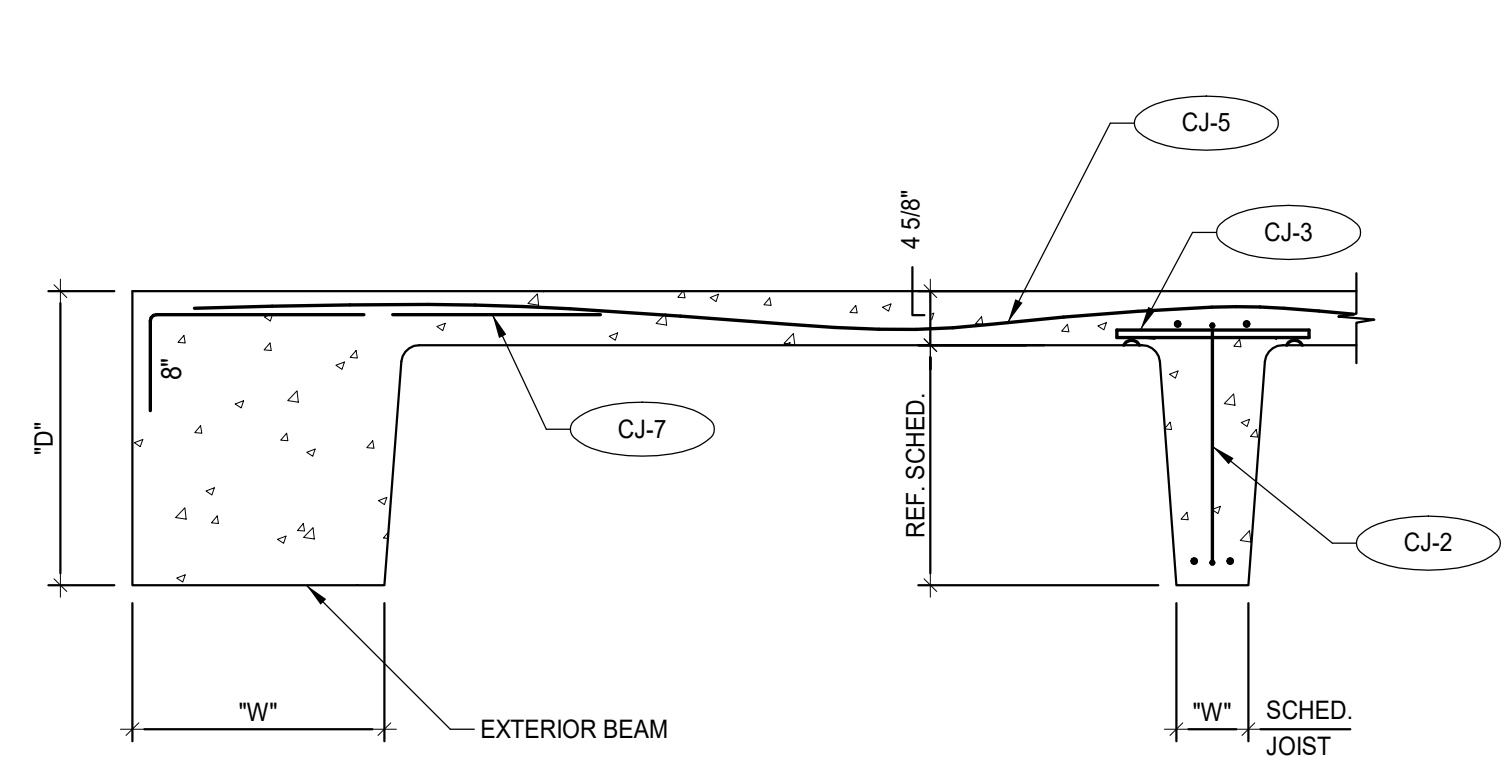
CLIENT Alamo Colleges	PROJECT NUMBER 230462	
DATE 2024/05/23		
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER: AB

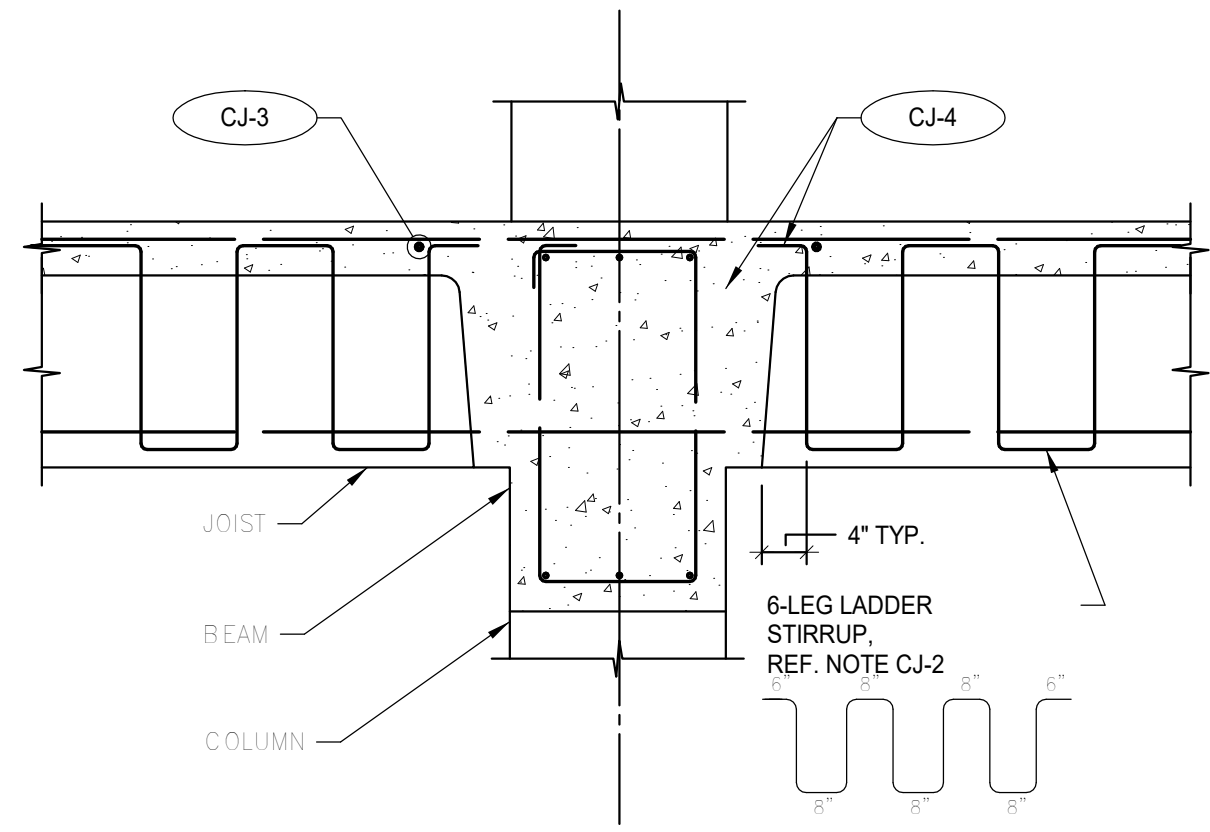
**CONC. BEAM SCHED & NOTES**



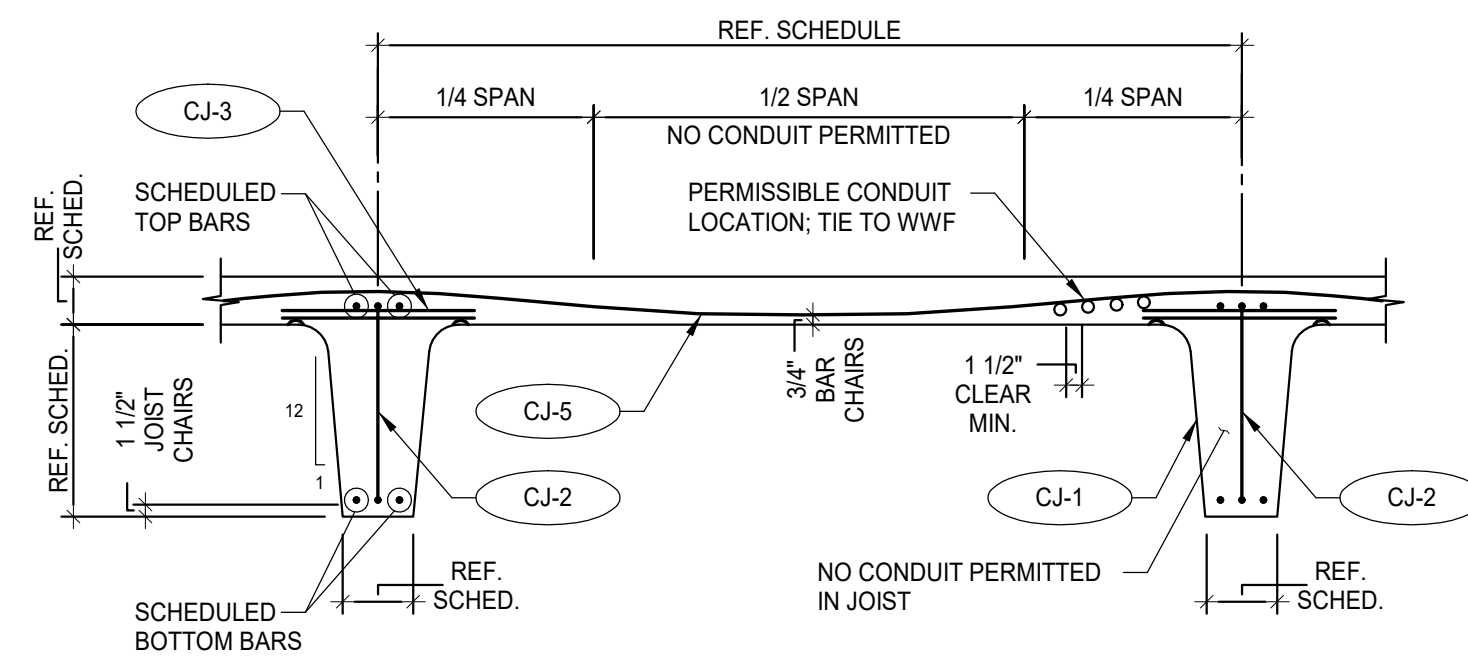
1st FLOOR CONCRETE JOIST SCHEDULE															
MARK	SIZE			MAIN REINFORCING						STIRRUPS			REMARKS		
	W	D	SECT.	SPCG.	TOP BARS		BOTTOM BARS		TOP BARS AT SUPPORT		SIZE	NO. LEGS		SPACING AT EACH END OF JOIST	
					REINF.	TYP.	REINF.	TYP.	REINF.	TYP.	SUPP.				
J1	6	20		6'-0"	2-#6	T2	1-#8	B6	-	-	-	#4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



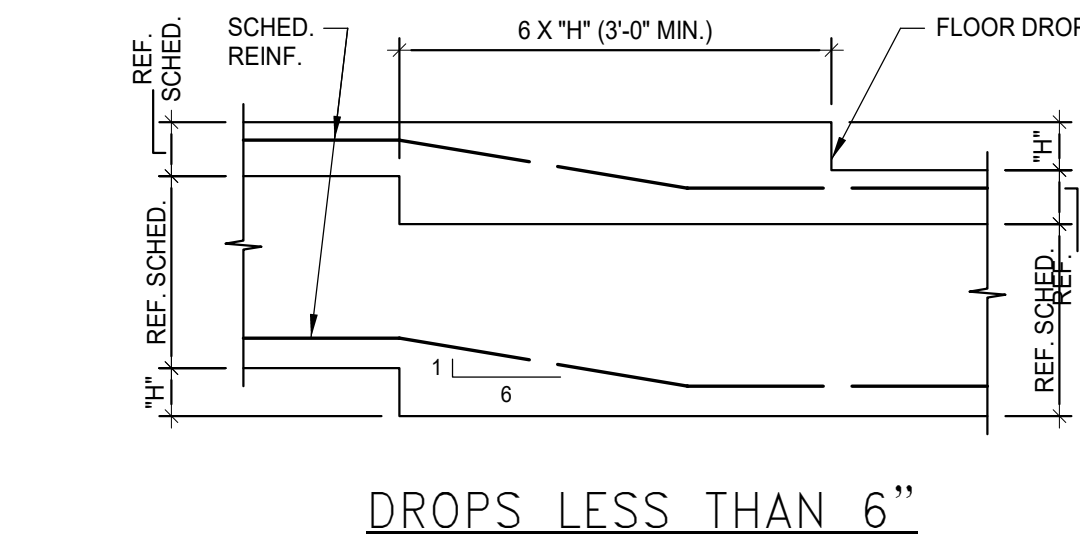
5 DETAIL TYP. SECT. @ REINF. BM. SCALE: 3/4" = 1'-0"



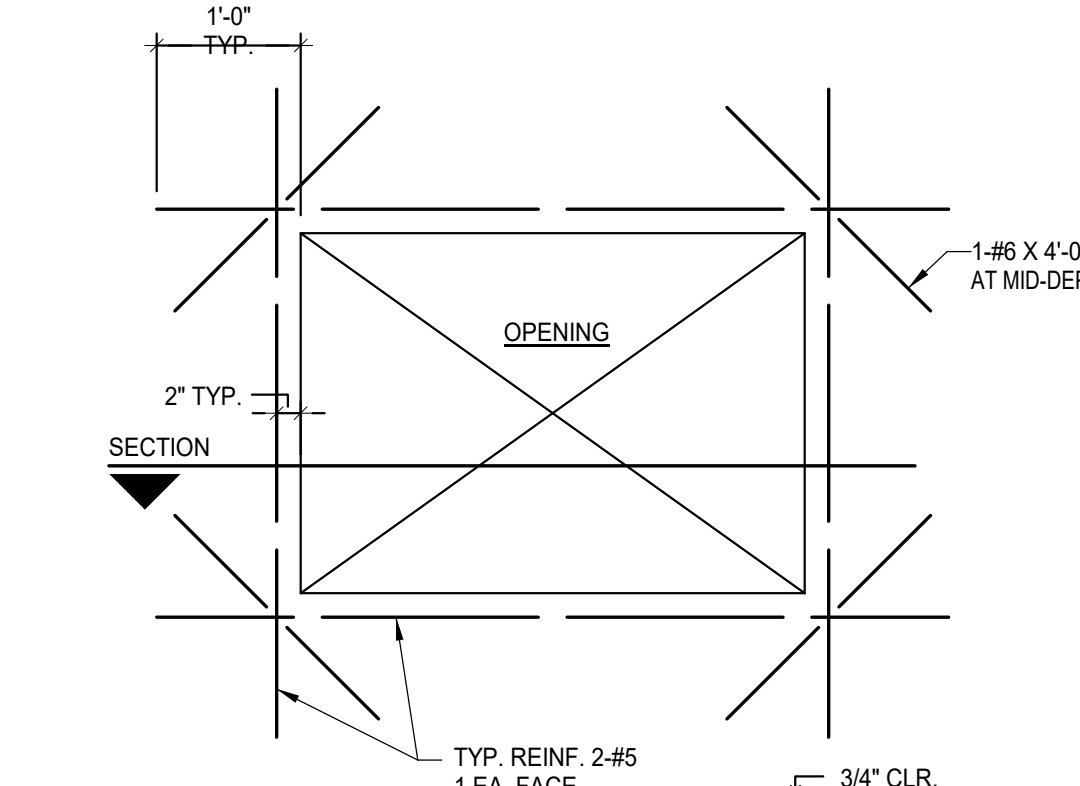
6 DETAIL TYP. SECT. @ INT. BM. SCALE: 3/4" = 1'-0"



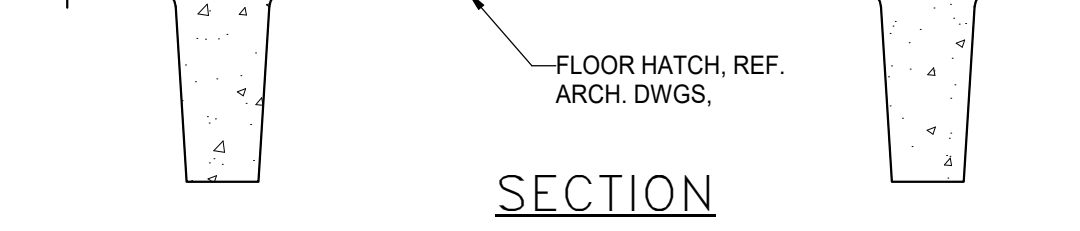
7 DETAIL TYP. ALLOWABLE CONDUIT PLACEMENT SCALE: 3/4" = 1'-0"



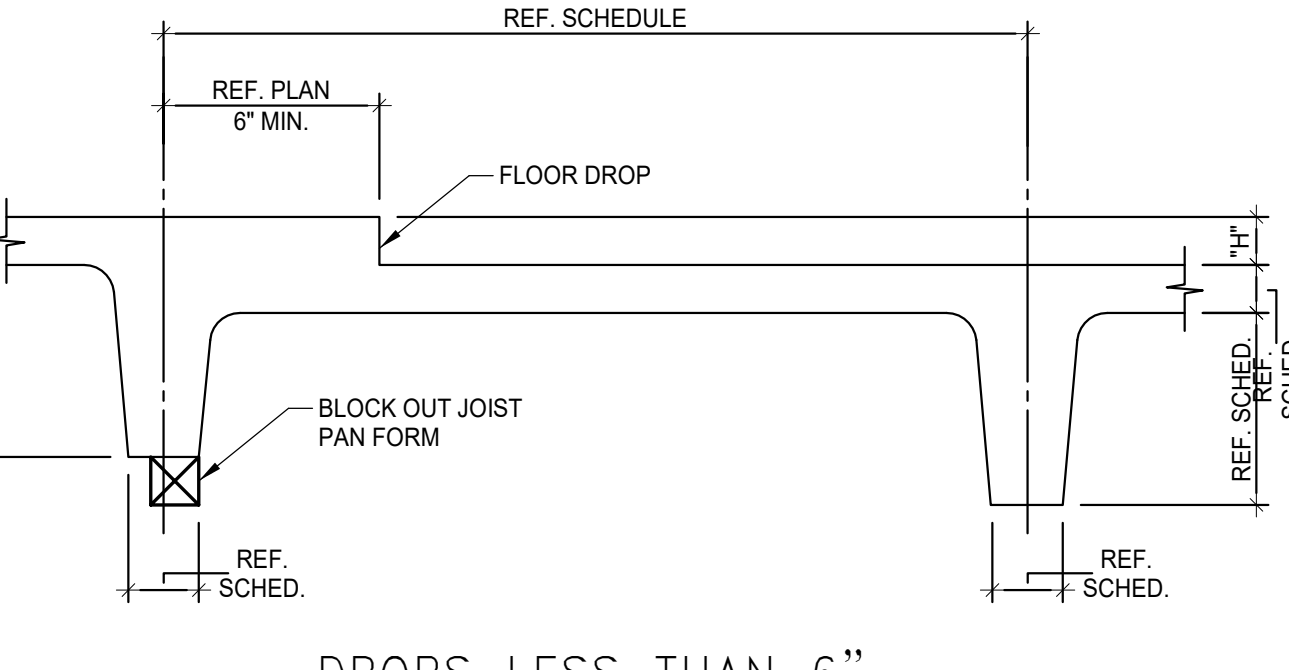
1 DETAIL TYP. REINF. @ SLAB DROP SCALE: 3/4" = 1'-0"



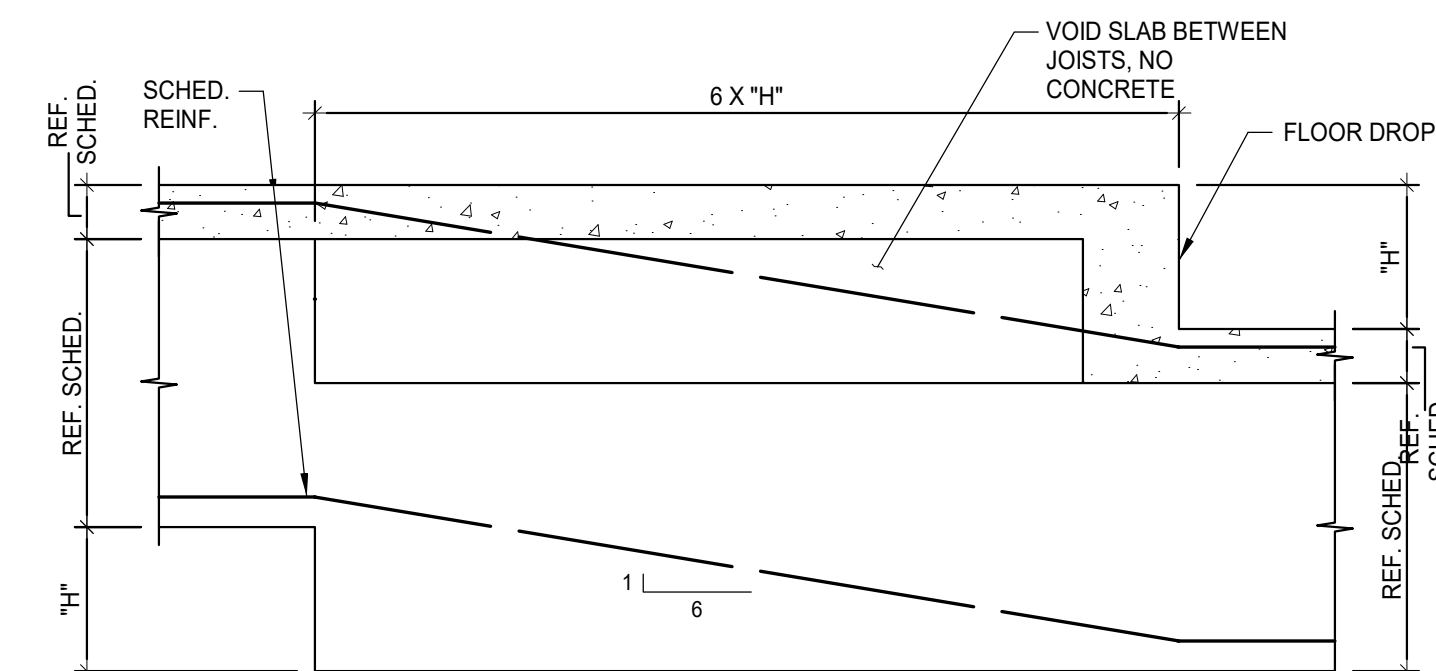
2 DETAIL TYP. SLAB REINF. @ ACCESS HATCH SCALE: 3/4" = 1'-0"



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"

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

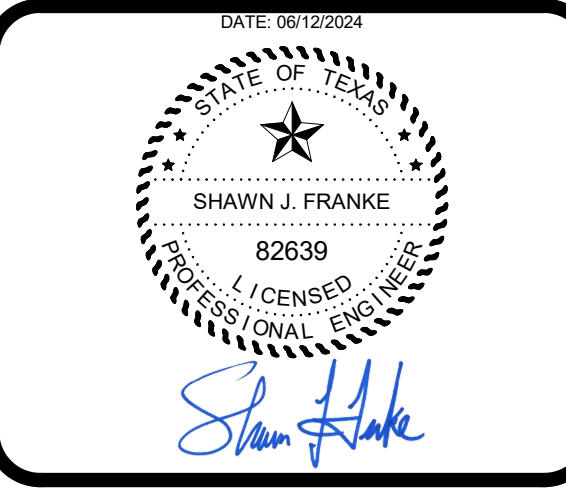
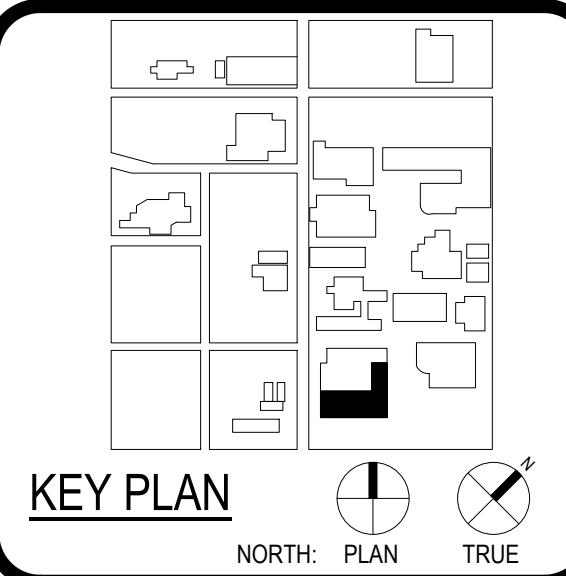
- CONCRETE JOIST NOTES:**
- CJ-1 STEEL PAN-JOIST FORMS SHALL BE SPACED SO THAT JOISTS IN ADJACENT SPANS ARE IN EXACT ALIGNMENT UNLESS SHOWN OTHERWISE. NARROWER WIDTH FORMS SHALL BE COORDINATED WITH BASIC SPACING WHERE MAKE-UPS ARE REQUIRED.
  - CJ-2 WHERE STIRRUPS ARE SCHEDULED, (1) 6-LEG LADDER STIRRUP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



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



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

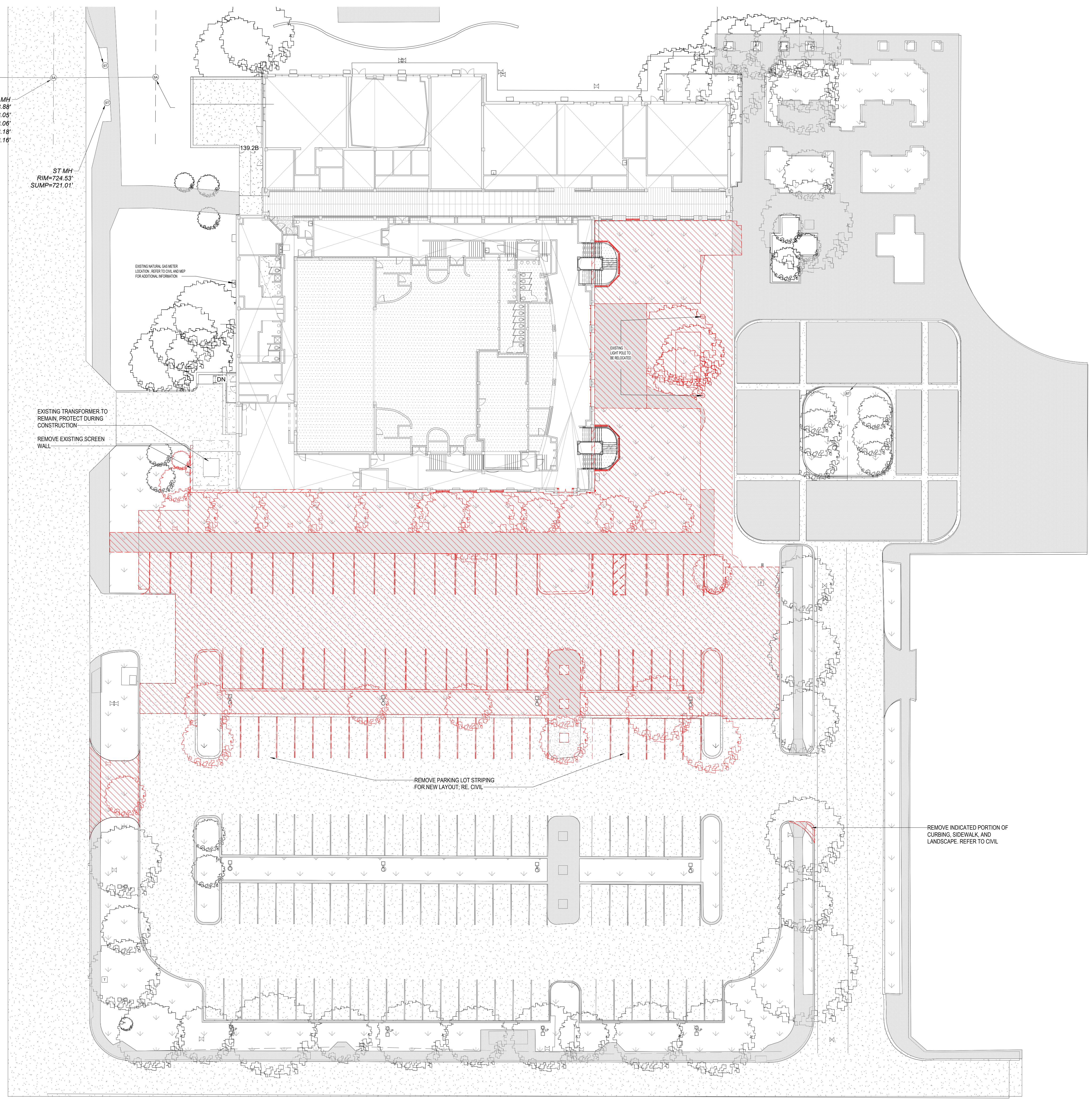
No.	Description	Date

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER AB

CONC. JOIST SCHED,  
 NOTES & DETAILS



# ISSUE FOR CONSTRUCTION



## GENERAL SITE DEMOLITION NOTES

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

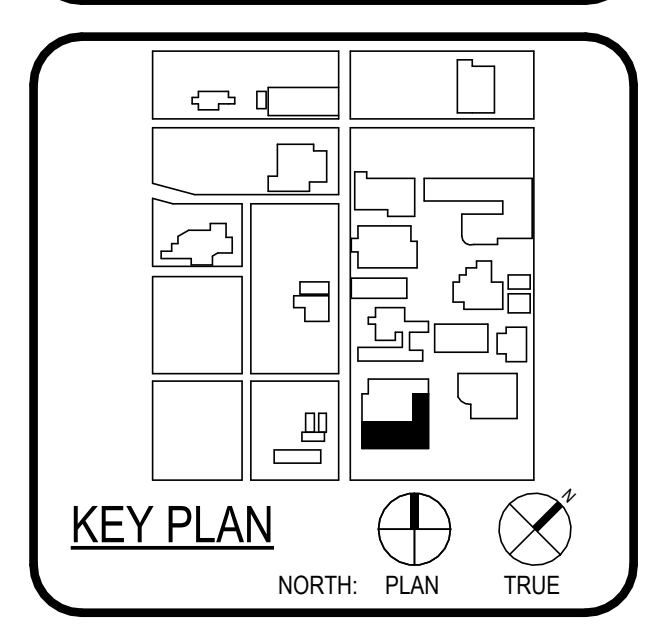


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PROJECT	
ARCHITECT	PBK Architects, Inc.
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ENGINEER	PKB
MECHANICAL	PKB
ELECTRICAL	PKB
PLUMBING	PKB
CONSTRUCTION	PKB
INSULATION	PKB
PAVEMENT	PKB
MEASUREMENT	PKB
DATE	1/23/2024

**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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

## ISSUE FOR CONSTRUCTION

BUILDING NUMBER 1

### DEMOLITION ARCHITECTURAL SITE PLAN

**ASD101**

## SITE DEMOLITION PLAN LEGEND

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

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



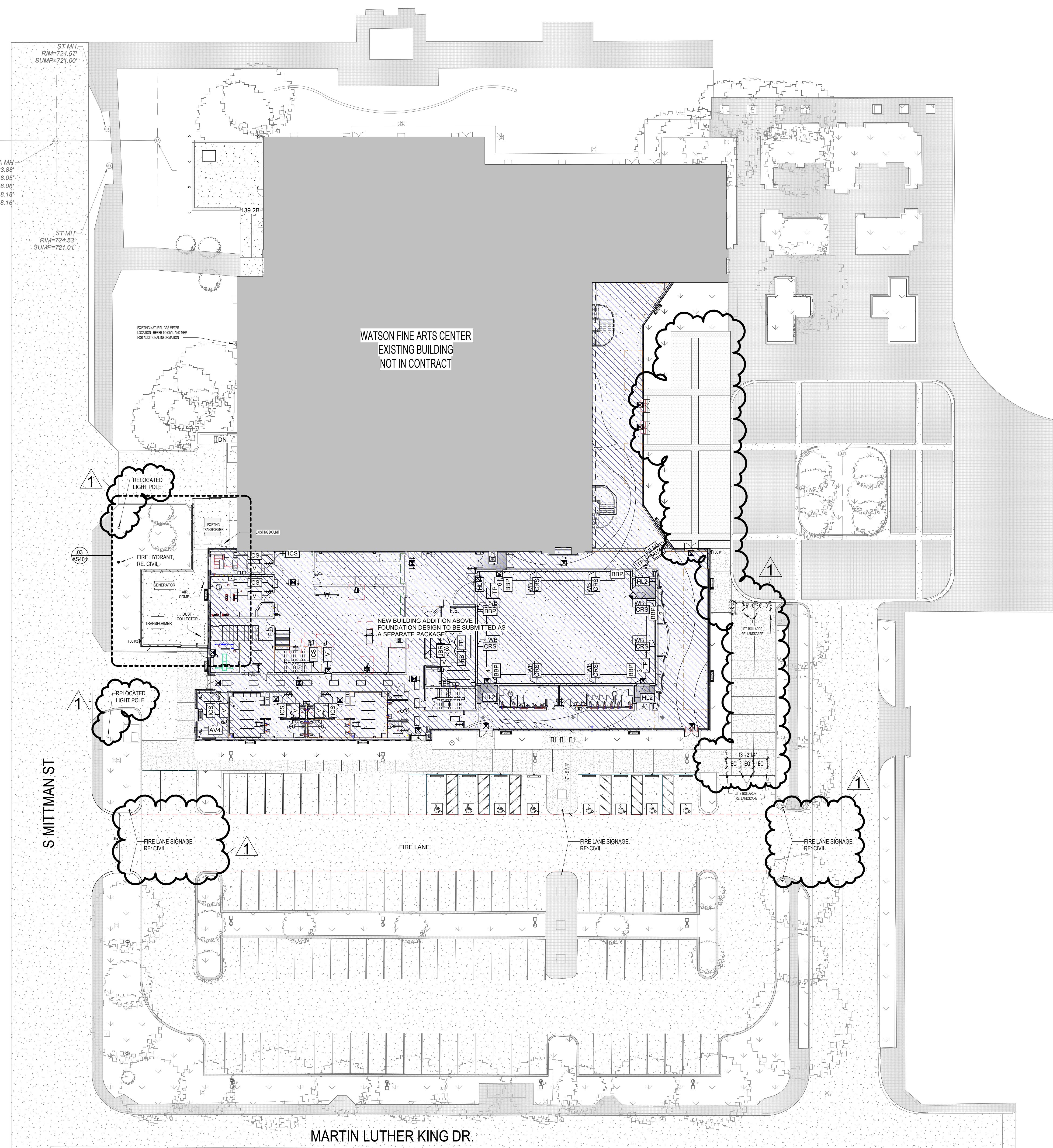
ARCHITECTURAL SITE PLAN  
 AS100  
 FOR BLUEBANK LABELING CO.  
 ISSUE FOR CONSTRUCTION  
 WAC Black Box Addition PKG 1  
 ALAMO COLLEGES  
 ST. PHILIP'S COLLEGE  
 KEY PLAN  
 NORTH PLAN TRUE  
 REGISTERED ARCHITECT  
 CLIENT: Alamo Colleges  
 DATE: 2024/06/14  
 PROJECT NUMBER: 230462  
 DRAWING HISTORY  
 No. Description Date  
 1 ASI #1 - CITY & OWNER COMMENTS 6-14-2024  
 ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1  
 ARCHITECTURAL SITE PLAN  
 AS100

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.
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
CIVIL	BA & ARCHITECTS
LANDSCAPE	BA & ARCHITECTS
MECHANICAL	BA & ARCHITECTS
ELECTRICAL	BA & ARCHITECTS
PLUMBING	BA & ARCHITECTS
STRUCTURAL	BA & ARCHITECTS
TRUCKING	BA & ARCHITECTS
CONSTRUCTION	BA & ARCHITECTS
MEASUREMENTS	BA & ARCHITECTS
REVISIONS	BA & ARCHITECTS
DATE	6-14-2024



BRICK QUANTITY TAKEOFF

LISTED AREAS ARE ACTUAL SQ. FT. TAKE-OFF FORM 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

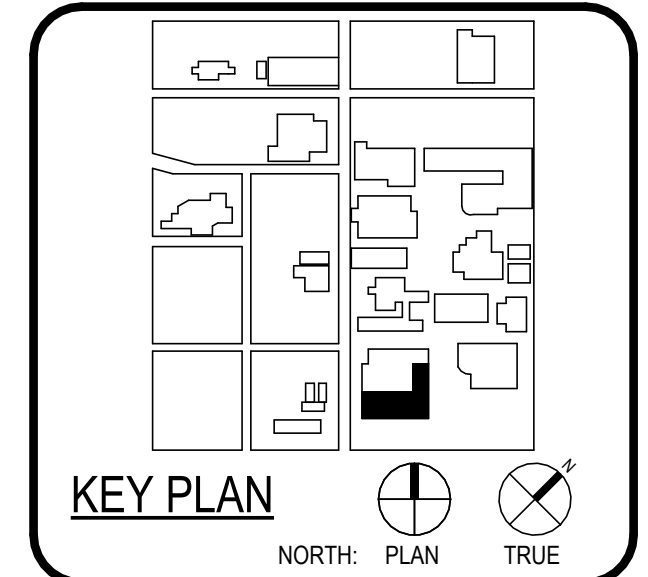
ARCH SITE PLAN LEGEND

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

WAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



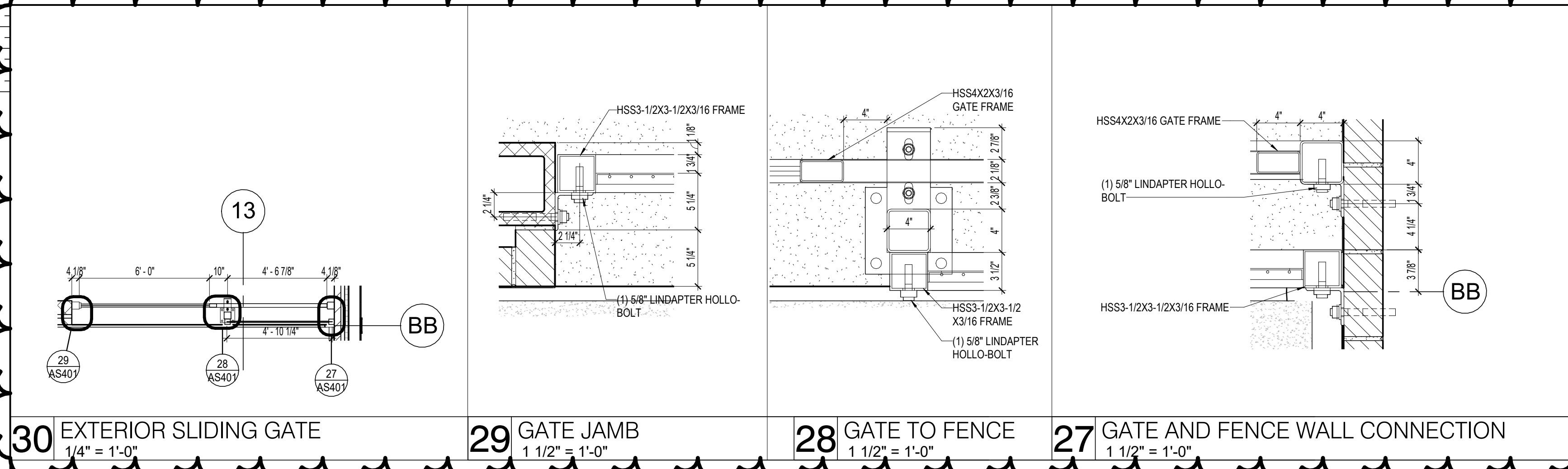
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DATE	2024/06/14
PROJECT NUMBER	230462

DRAWING HISTORY		
No.	Description	Date
1	ASI #1 - CITY & OWNER COMMENTS	6-14-2024

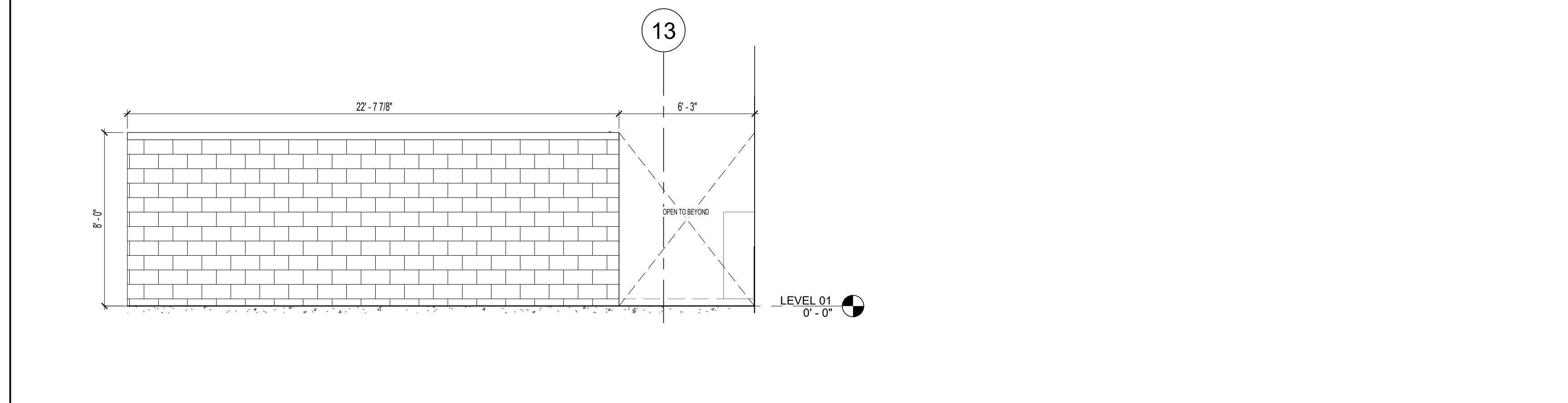
ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1

ARCHITECTURAL SITE PLAN  
 AS100

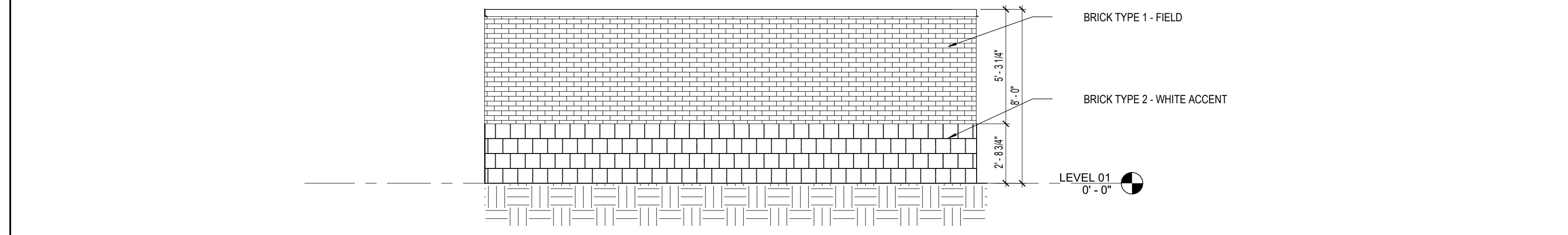




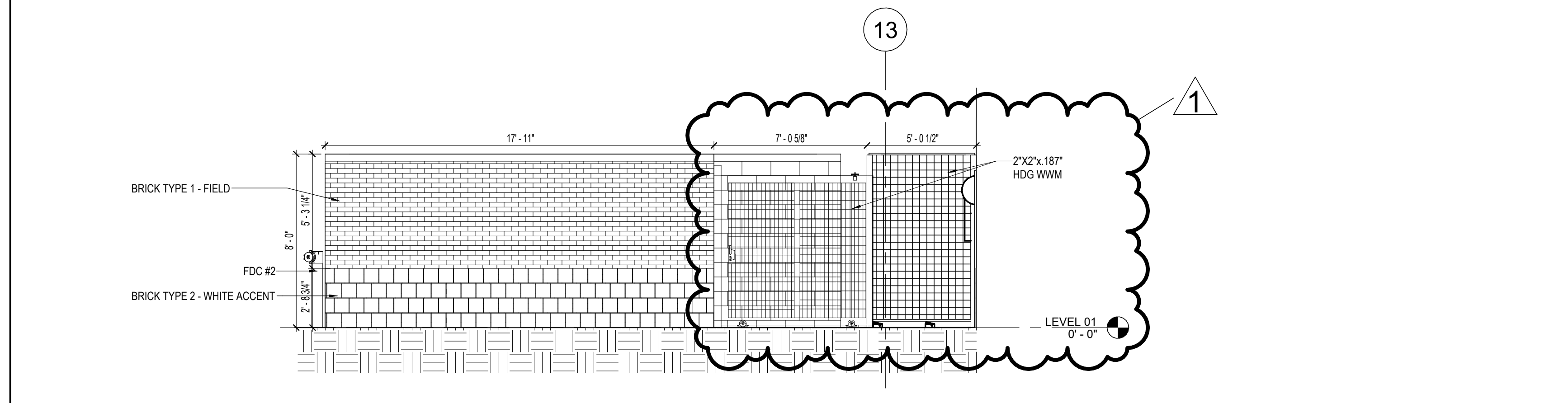
**30** EXTERIOR SLIDING GATE 1/4" = 1'-0"  
**29** GATE JAMB 1 1/2" = 1'-0"  
**28** GATE TO FENCE 1 1/2" = 1'-0"  
**27** GATE AND FENCE WALL CONNECTION 1 1/2" = 1'-0"



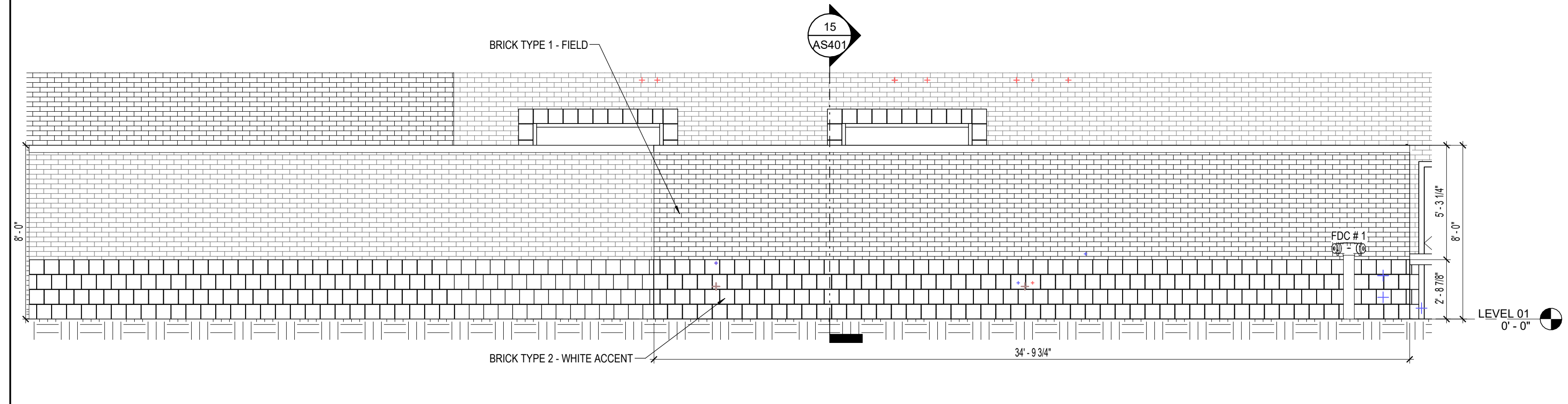
**24** NORTH EQUIPMENT ELEVATION 1/4" = 1'-0"



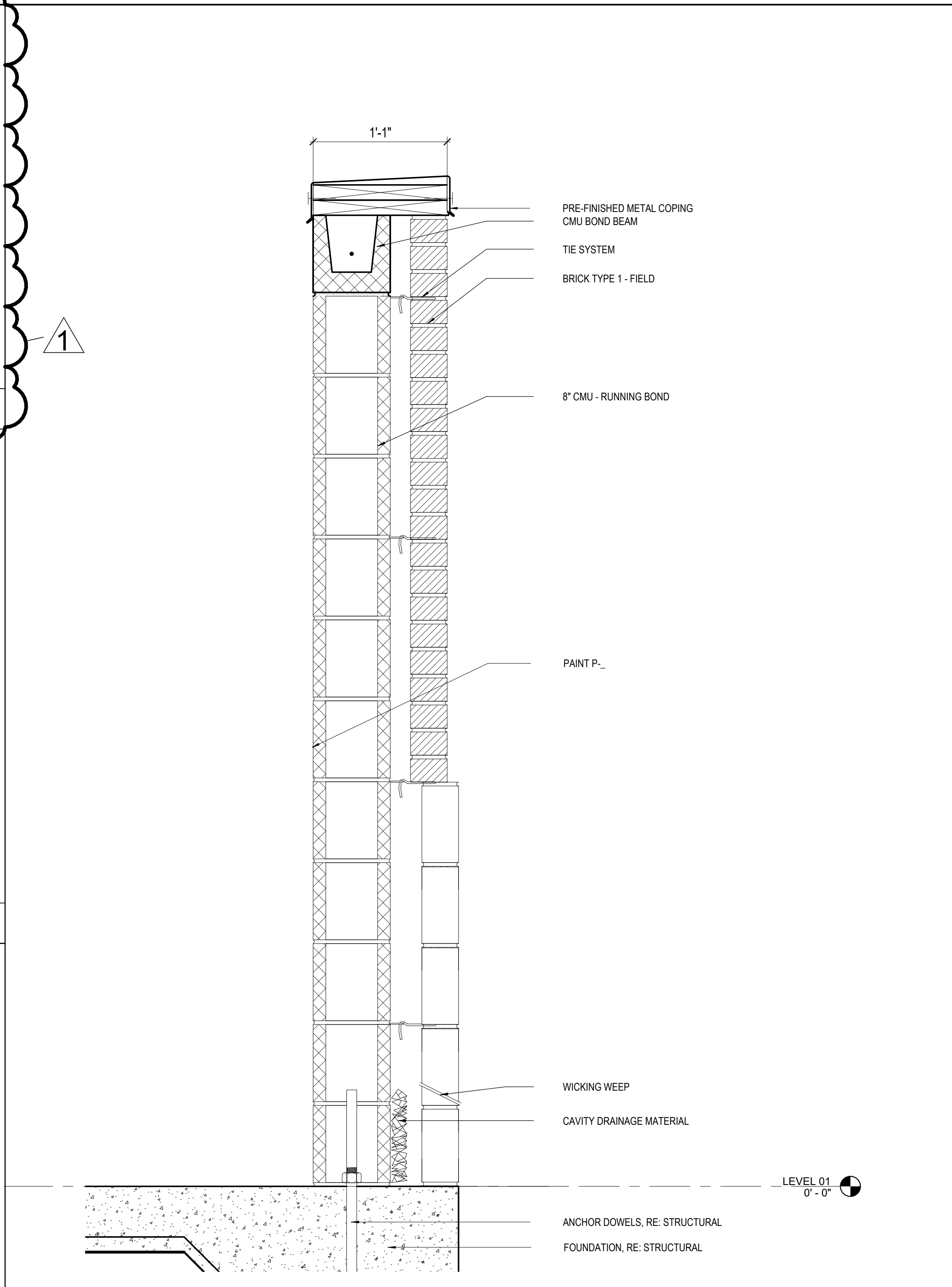
**18** EQUIPMENT ELEVATION NORTH 1/4" = 1'-0"



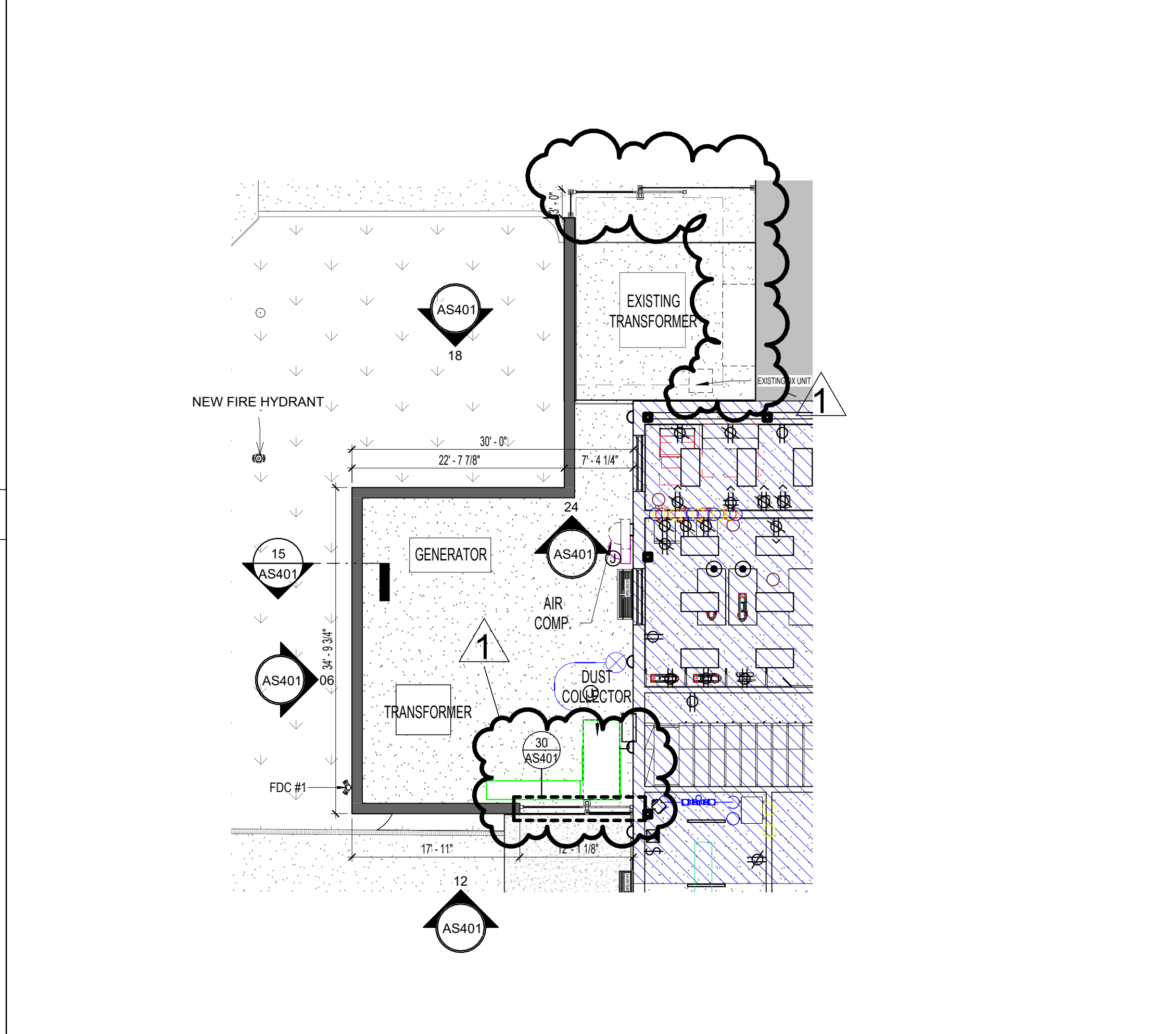
**12** EQUIPMENT ELEVATION SOUTH 1/4" = 1'-0"



**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.
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- REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS.
- VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCHITECT PRIOR TO POURING OF CONCRETE.
- PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
- PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
- VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION OF SITE SIGNAGE.

**KEYNOTE LEGEND**

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

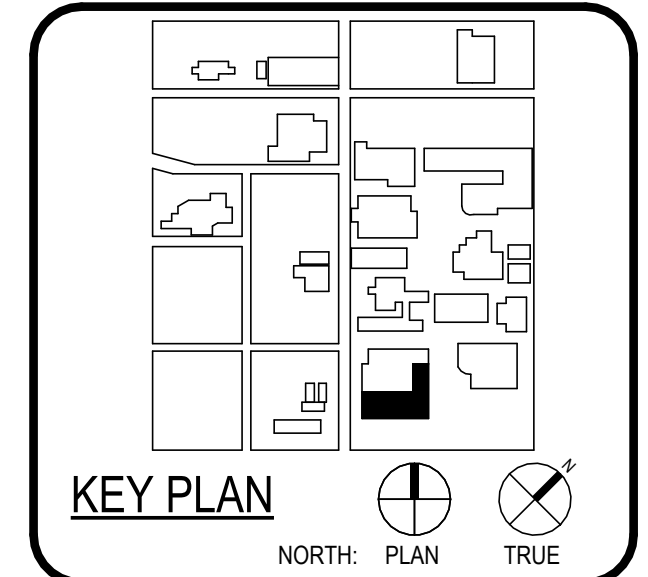
**ARCH SITE PLAN LEGEND**

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



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

**WFAC Black Box Addition PKG 1**



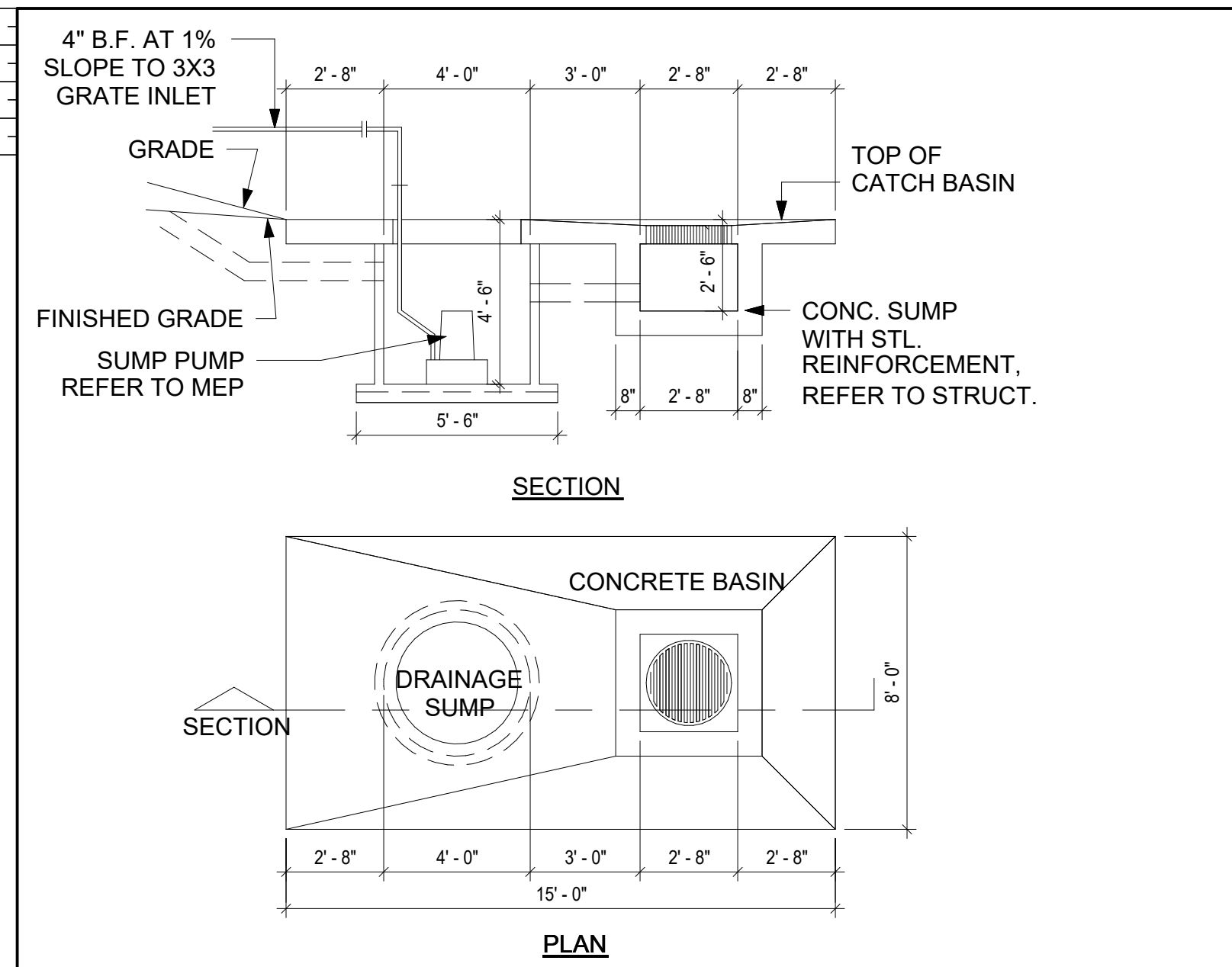
CLIENT		
Alamo Colleges	PROJECT NUMBER	
DATE	230462	
2024/06/14		
DRAWING HISTORY		
No.	Description	Date
1	AS1 #1 - CITY & OWNER COMMENTS	6-14-2024

**ISSUE FOR CONSTRUCTION**  
BUILDING NUMBER 1

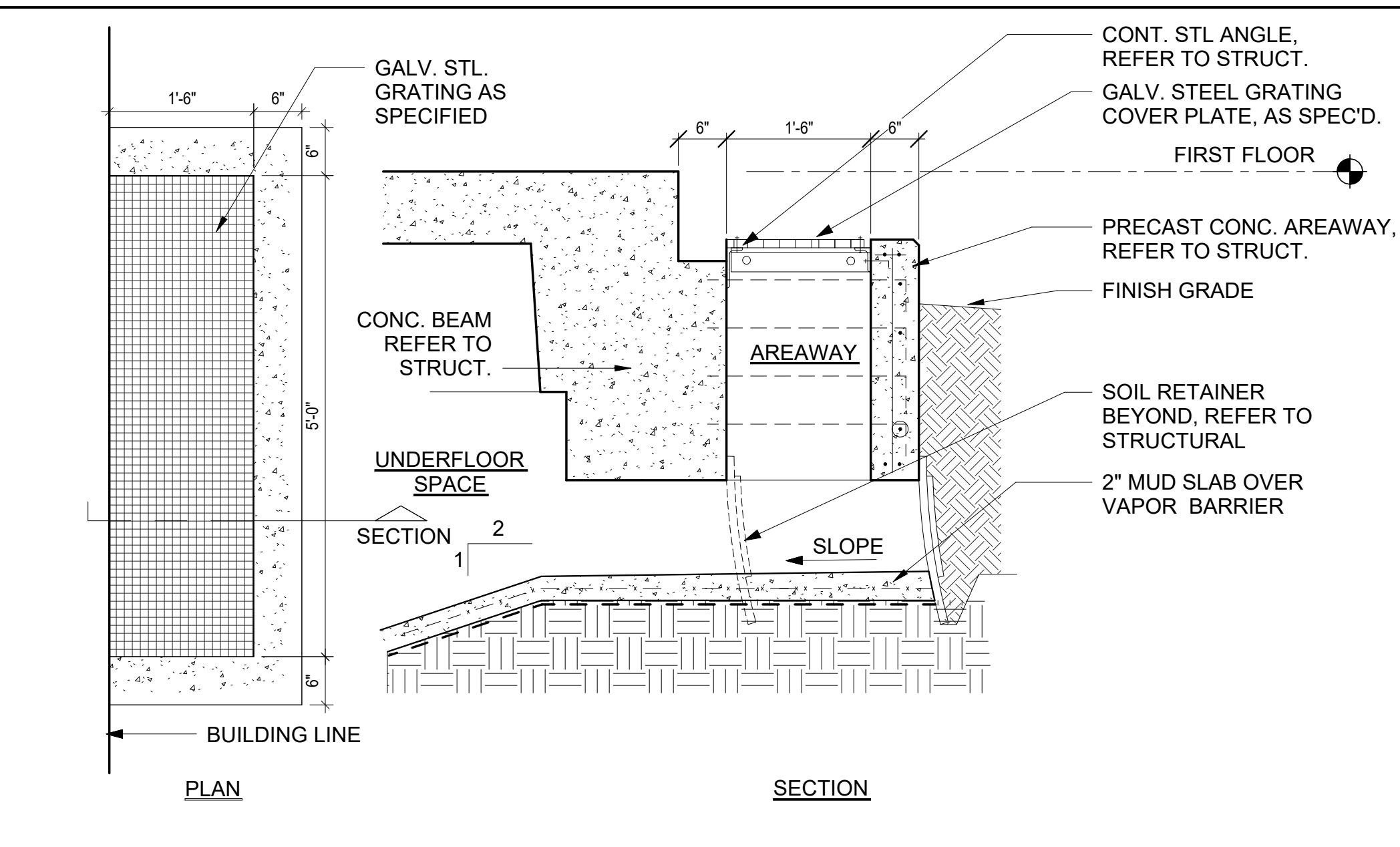
**ARCHITECTURAL ENLARGED SITE PLANS**

**AS401**

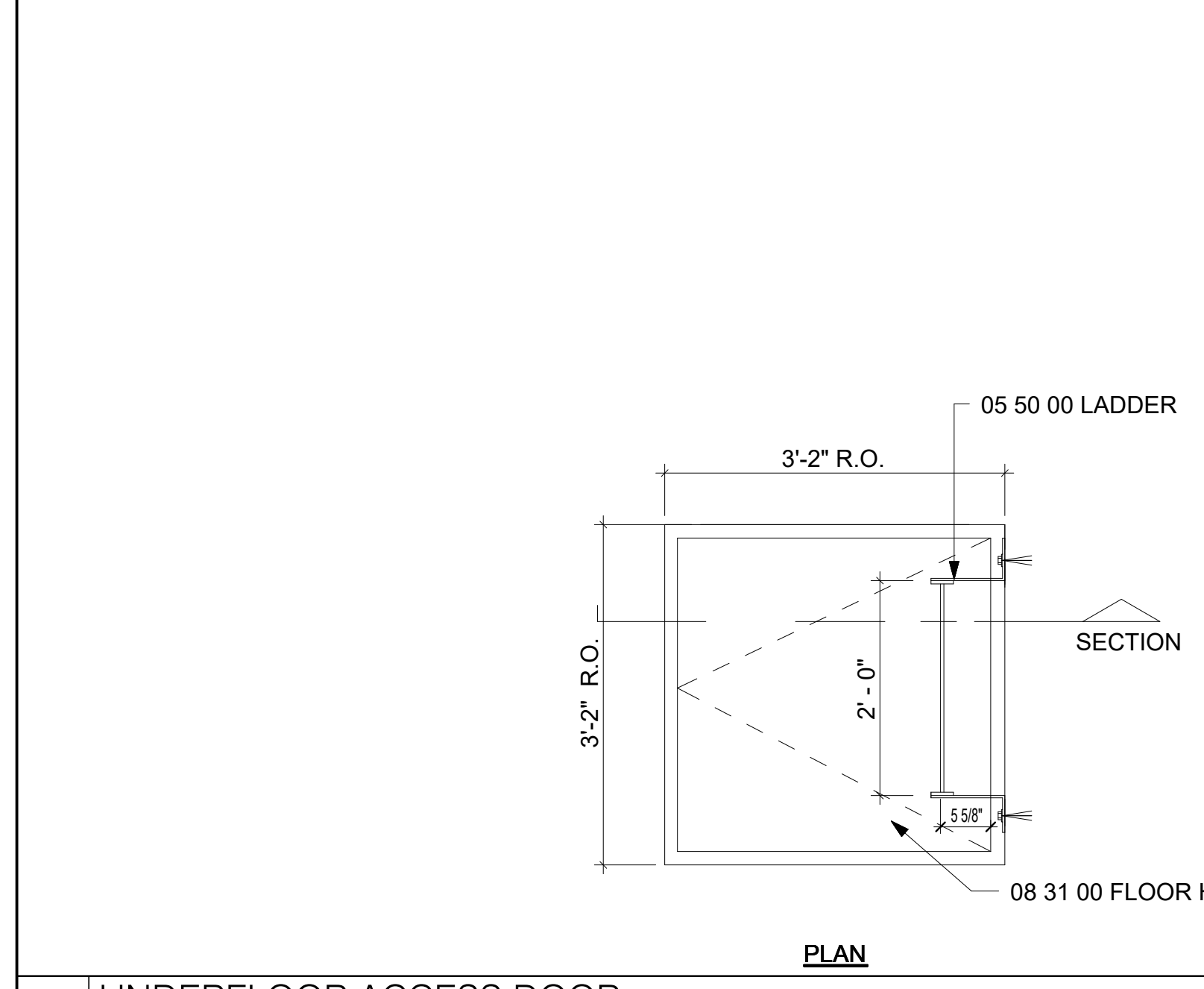




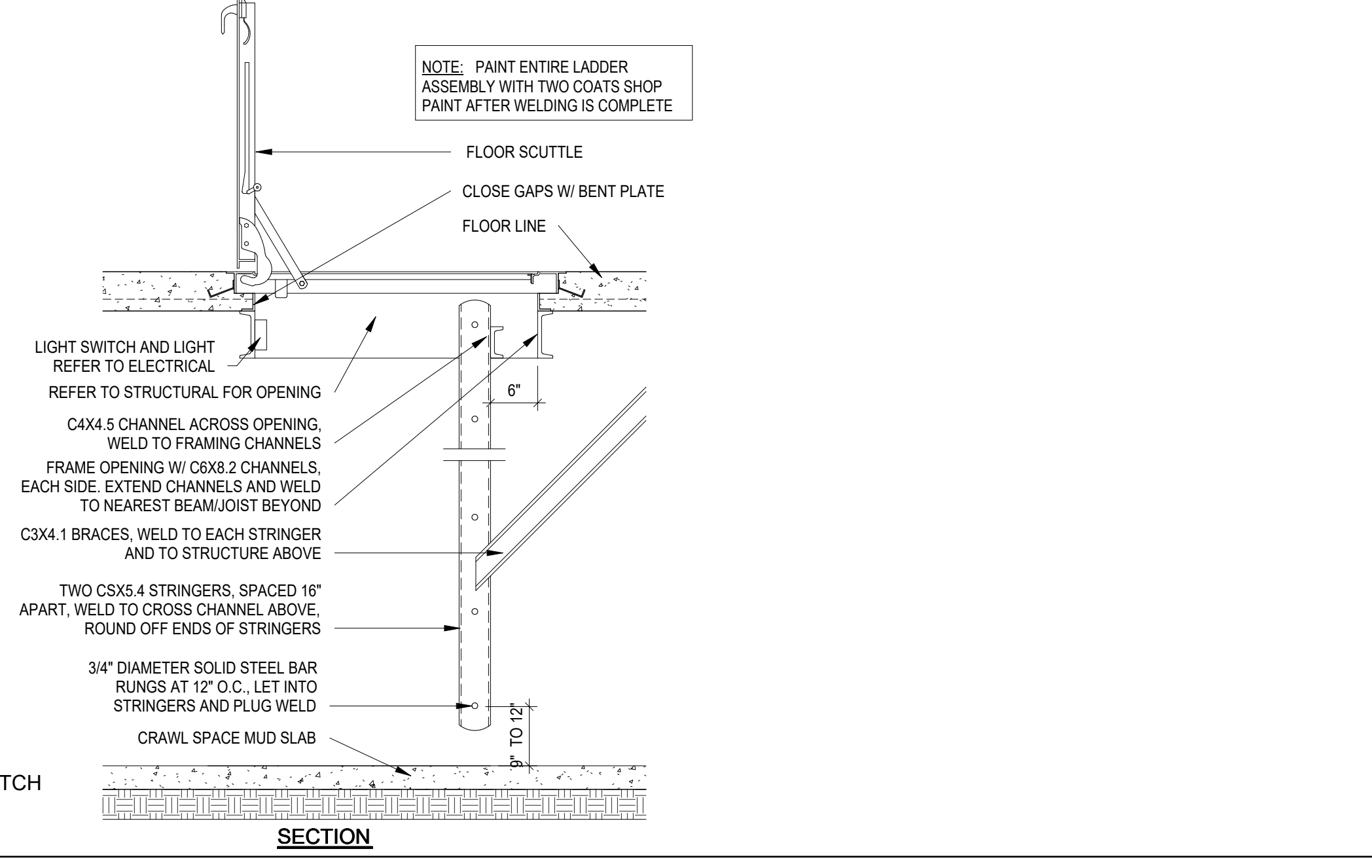
**30 UNDERGROUND SUMP PUMP DETAIL**  
1/4" = 1'-0"



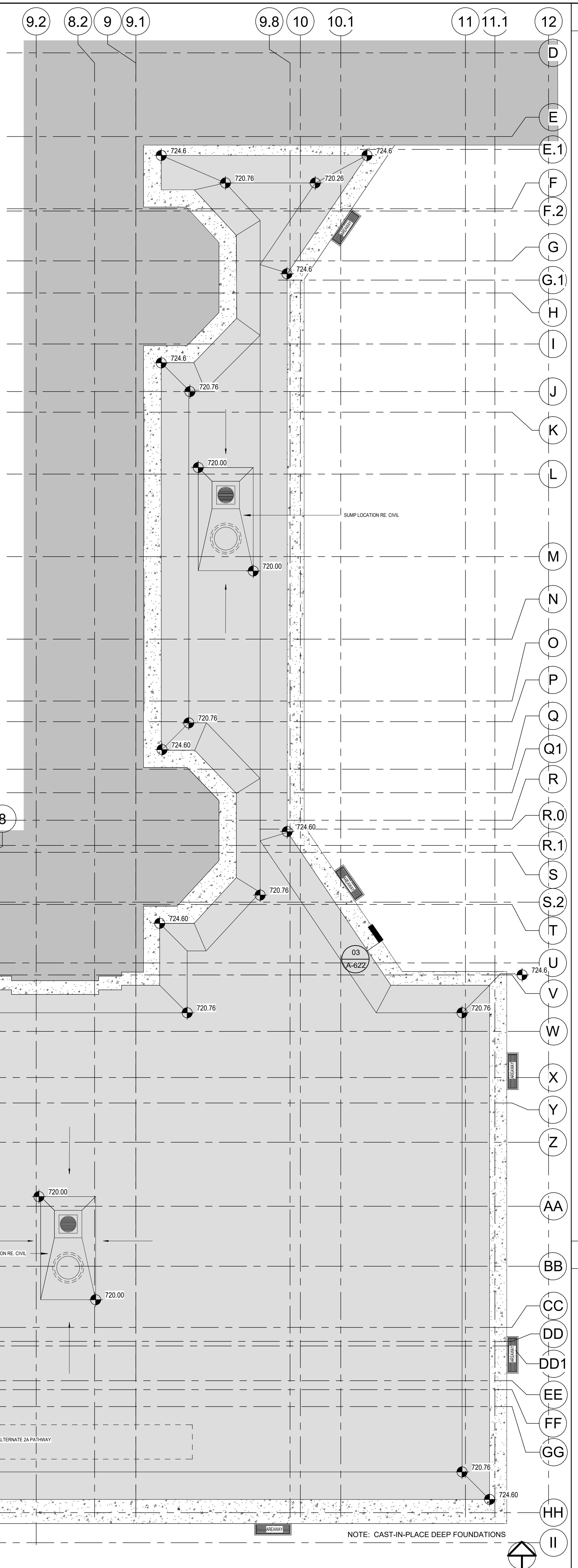
**29 AREAWAY DETAIL**  
3/4" = 1'-0"



**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 \_SR\_ 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.



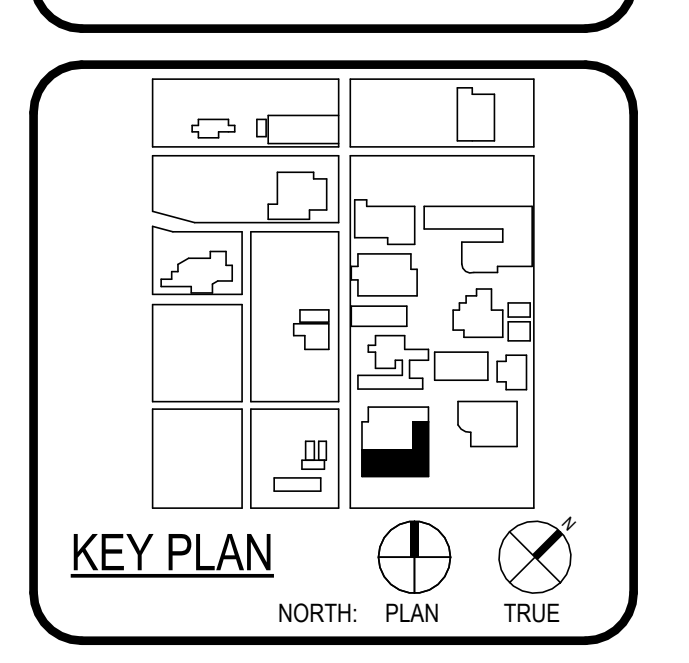
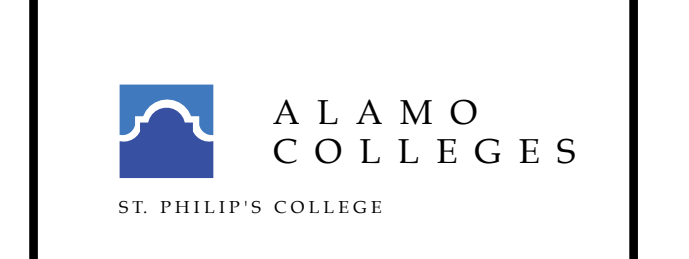
**FLOOR FINISH LEGEND**



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

**ISSUE FOR CONSTRUCTION**



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



ISSUE FOR CONSTRUCTION

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

**MATERIALS**

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

**REMARKS LEGEND**

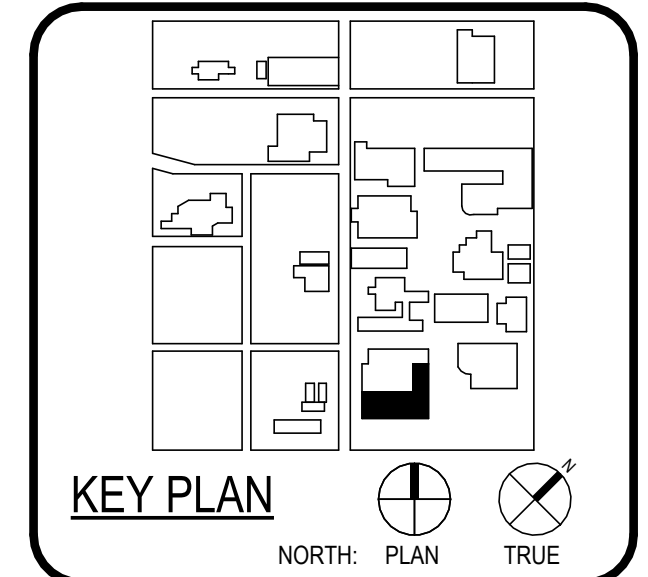
1. WITH EGRESS DEVICE
2. MAGNETIC DOOR HOLDER
3. FIRE DOOR
4. ELEVATOR MACHINE ROOM DOORS
5. ELECTRICAL ROOM DOORS
6. KICK PLATE ON BOTH SIDES
7. ACCESS PANEL DOOR
8. WITH CLOSER



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	BAA ARCHITECTS
CONSULTANT	CON
CONSULTANT	DESIGNER
CONSULTANT	LANDSCAPE
CONSULTANT	ROSE AND GROUP
CONSULTANT	STRUCTURAL
CONSULTANT	LUNBY & FRANK ENGINEERING
CONSULTANT	MEP
CONSULTANT	EIF
CONSULTANT	ENVIRONMENTAL
CONSULTANT	MECHANICAL
CONSULTANT	MECHANICAL
CONSULTANT	MECHANICAL
CONSULTANT	MECHANICAL

WFAC Black Box Addition PKG 1

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



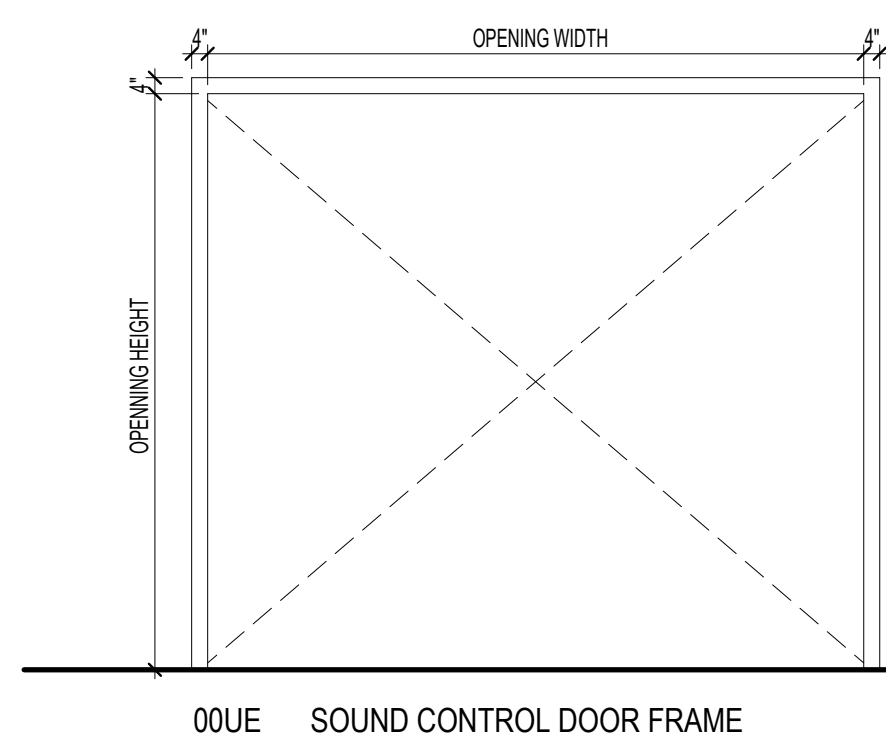
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Alamo Colleges		
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**ISSUE FOR CONSTRUCTION**

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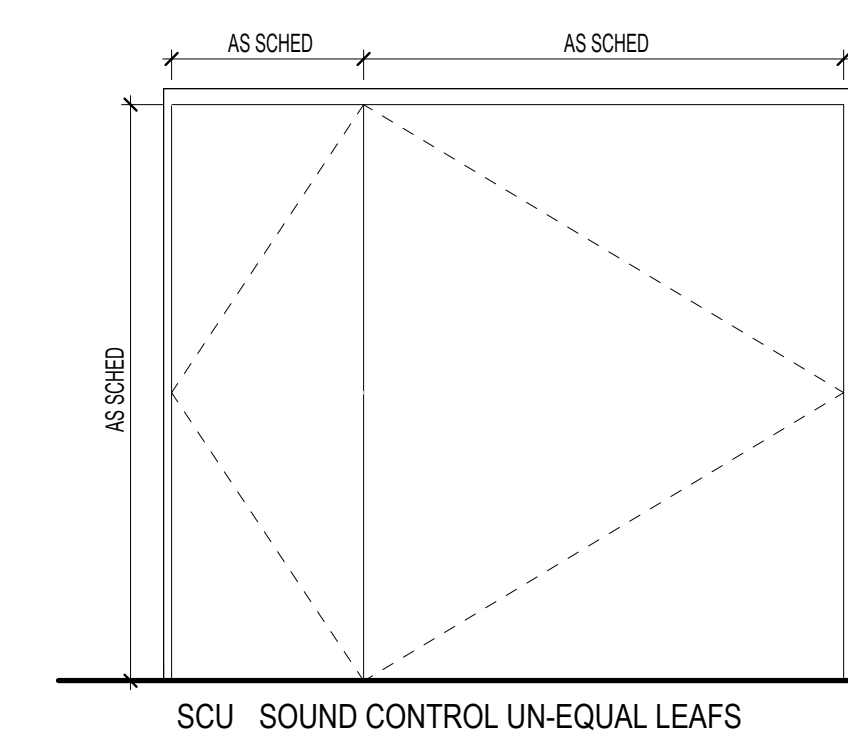
**DOOR SCHEDULE  
PANEL AND FRAME  
TYPES**

A-811



00UE SOUND CONTROL DOOR FRAME

FINISH FLOOR



SCU SOUND CONTROL UN-EQUAL LEAFS

FINISH FLOOR

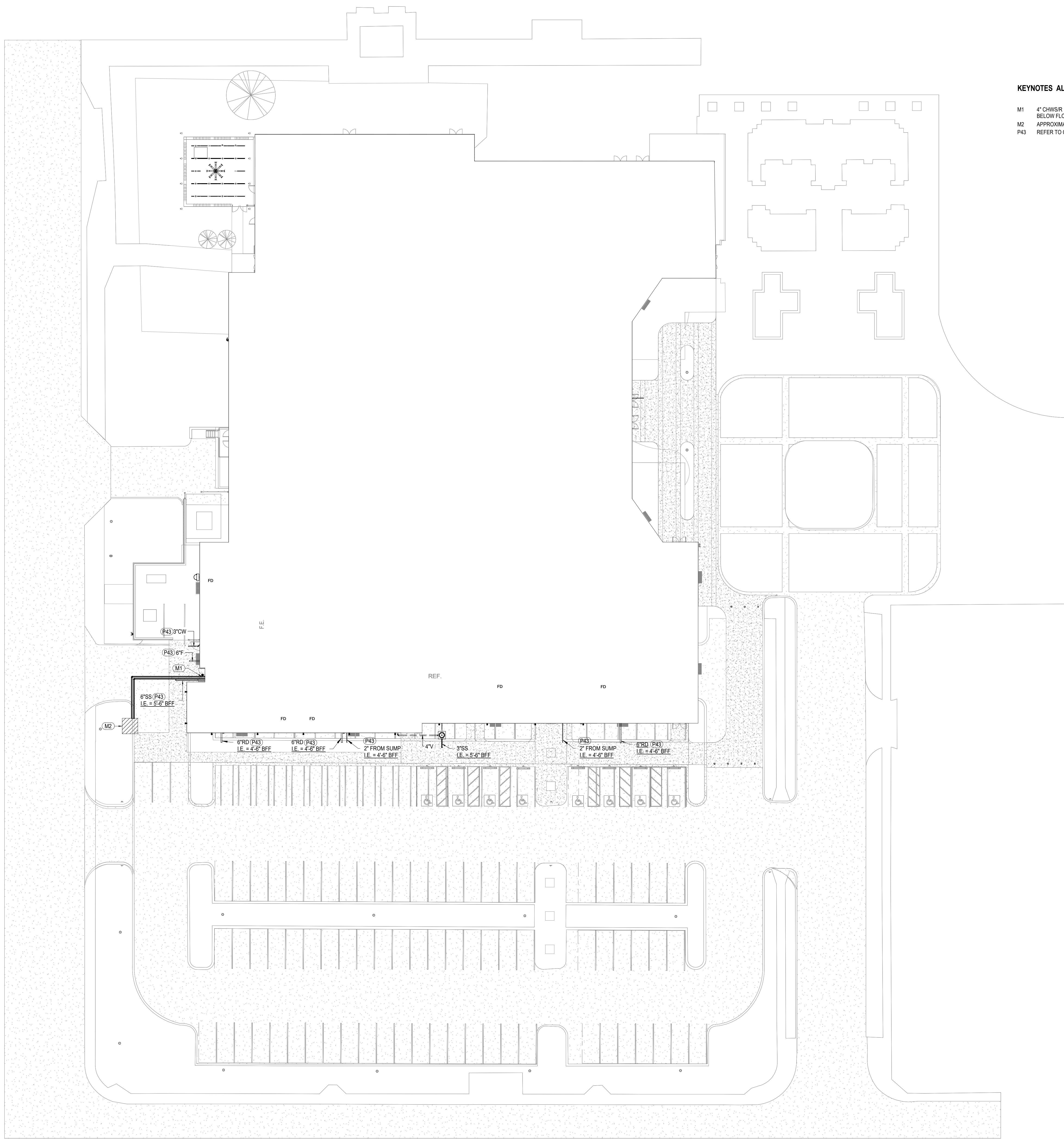
DOOR FRAME CONFIGURATIONS PKG 1  
1/4" = 1'-0"

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



# ISSUE FOR CONSTRUCTION

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 CHECKED BY:  
 Checker  
 DRAWN BY:  
 Author  
 Plot Stamp:  
 6/12/2024 4:05:39 PM



**KEYNOTES ALL**

M1 4" CHWS/R PIPING ROUTED FROM EXISTING CAMPUS LOOP VAULT BELOW FLOOR SLAB. REFER TO M-101D FOR CONTINUATION

M2 APPROXIMATE LOCATION OF EXISTING CHILLED WATER LOOP VAULT. REFER TO CIVIL DWGS. FOR CONTINUATION.

P43 REFER TO CIVIL DWGS. FOR CONTINUATION.

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

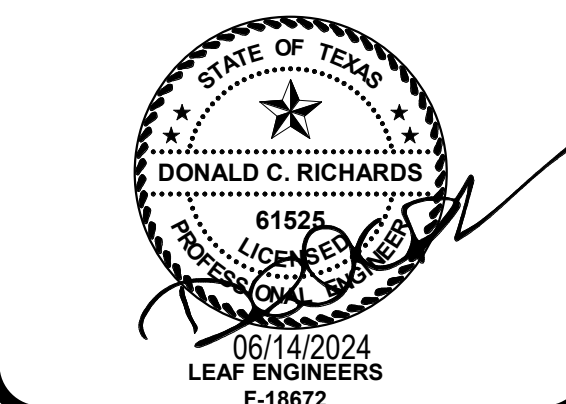
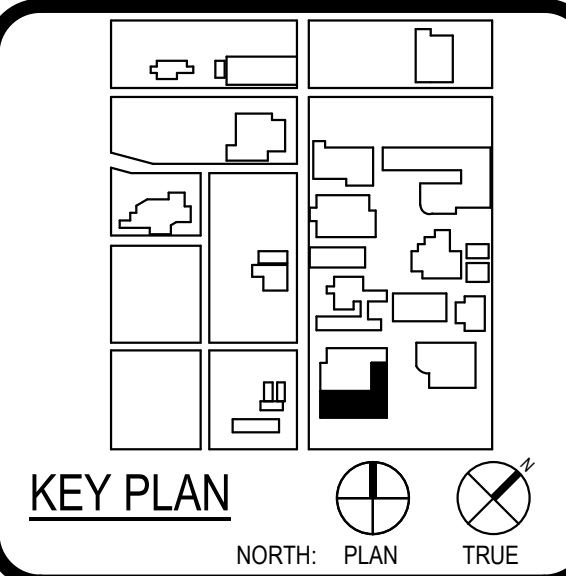


ARCHITECT	PBK Architects, Inc.
SAN ANTONIO	
601 N.W. Loop 410, Suite 400	
San Antonio, TX 78216	
210-820-0123 P	
210-829-0578 F	
TX Firm BR 1608	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
DESIGNER	TJL
LANDSCAPE	LANDSCAPE
MECHANICAL	LUNNEY & FRANKS ENGINEERING
ELECTRICAL	MEP
PLUMBING	MEP
PROVIDOR	MEP
MEASUREMENTS	MEASUREMENTS
DATE	12-20-2023



WFAC Black Box Addition PKG 1

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



CLIENT		
Alamo Colleges		
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BUILDING NUMBER	1	

MECHANICAL AND PLUMBING SITE PLAN

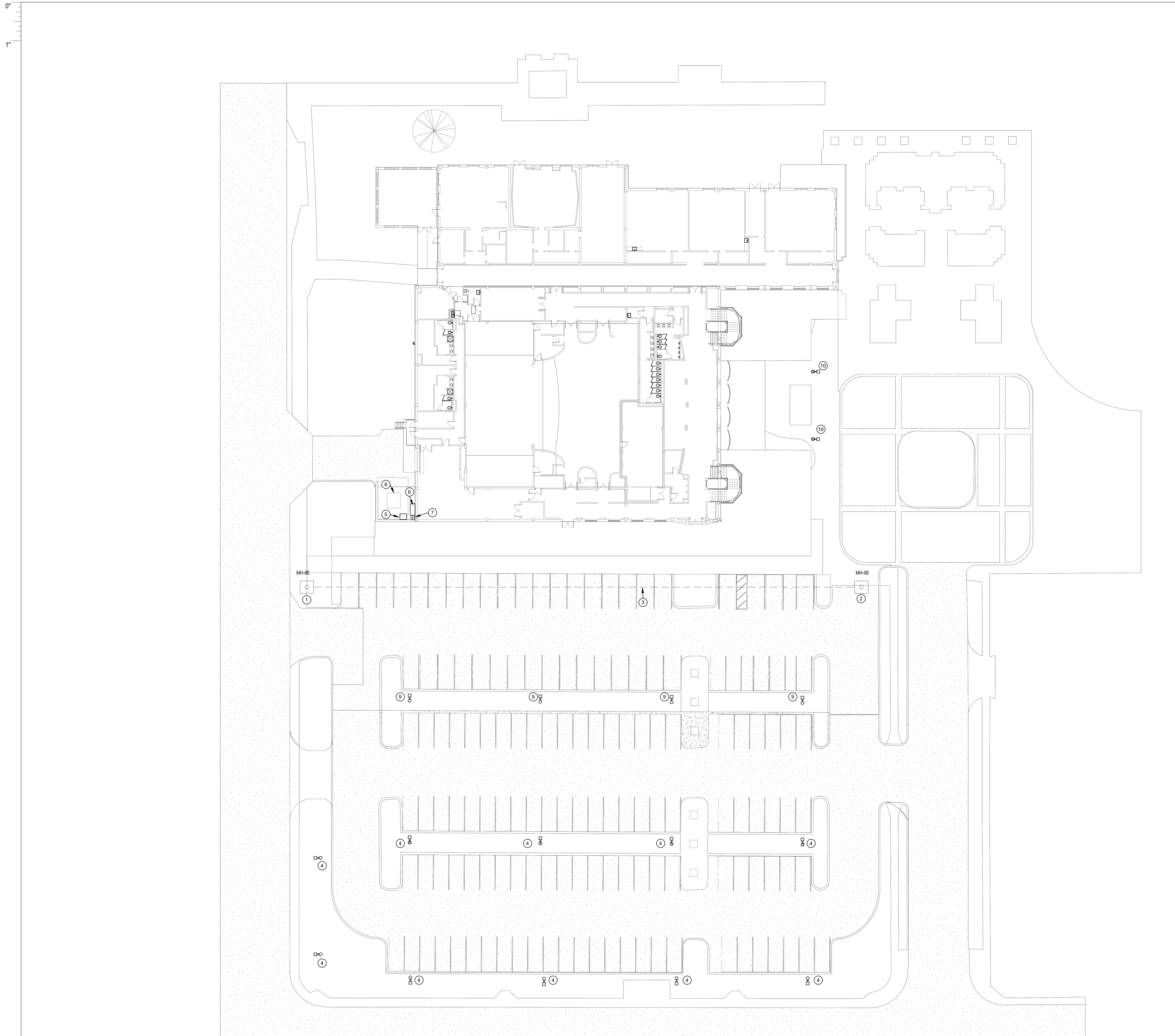
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# ISSUE FOR CONSTRUCTION

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Checker  
DRAWN BY:  
Author  
Plot Stamp:  
6/13/2024 12:25:09 PM



- 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"



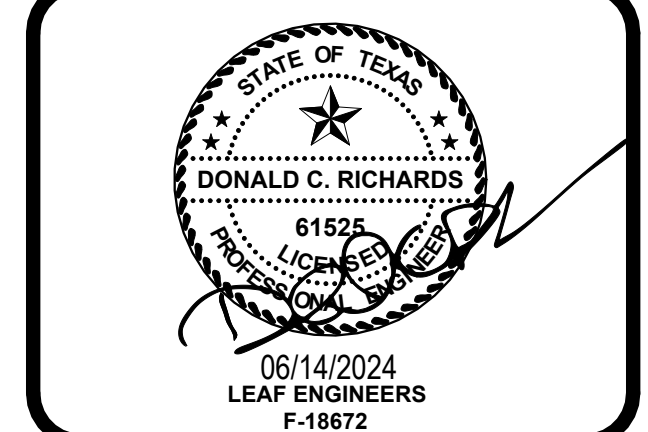
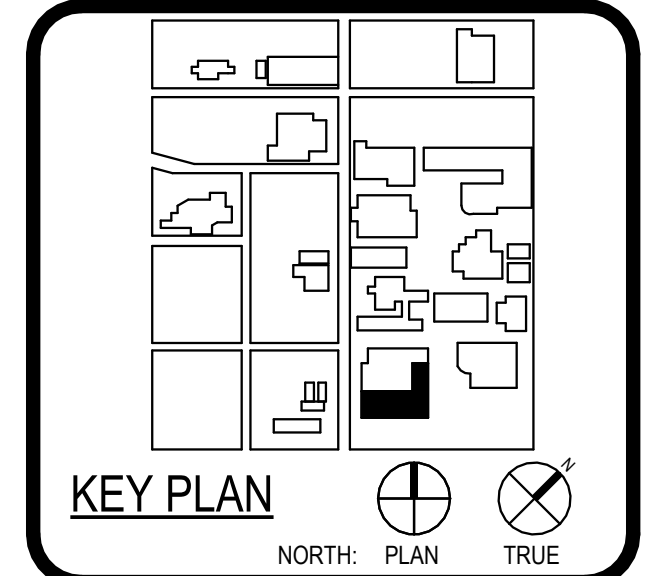
ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-820-0123 P 210-829-5578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-223-1100
CONSULTANT	LANDSCAPE TERRACE GROUP 1111 W. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-223-1100
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1100 N. LOOP WEST SUITE 1000 SAN ANTONIO, TX 78207 210-223-1100
ELECTRICAL ENGINEER	LEAF ENGINEERS 1801 MAIN LUTHER KING DR. SAN ANTONIO, TX 78203 210-223-1100



**WFAC Black Box Addition PKG 1**

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

ISSUE FOR CONSTRUCTION



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DRAWING HISTORY		
No.	Description	Date

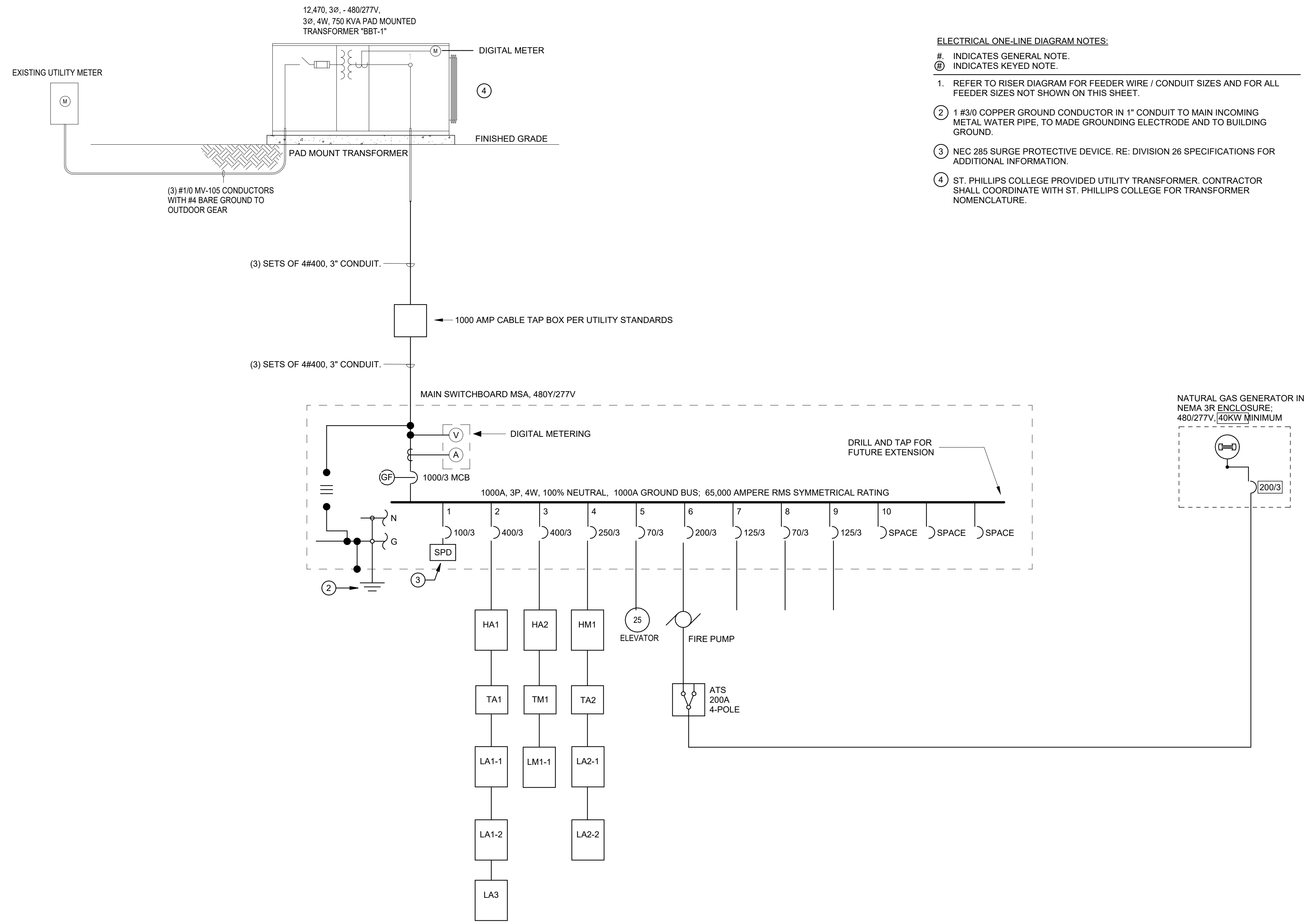
**ISSUE FOR CONSTRUCTION**

BUILDING NUMBER 1

**DEMO SITE POWER PLAN**



# ISSUE FOR CONSTRUCTION



- ELECTRICAL ONE-LINE DIAGRAM NOTES:**
- # INDICATES GENERAL NOTE.
  - ④ 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 MADE GROUNDING ELECTRODE AND TO BUILDING GROUND.
  - 3. NEC 285 SURGE PROTECTIVE DEVICE. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - 4. ST. PHILLIPS COLLEGE PROVIDED UTILITY TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH ST. PHILLIPS COLLEGE FOR TRANSFORMER NOMENCLATURE.

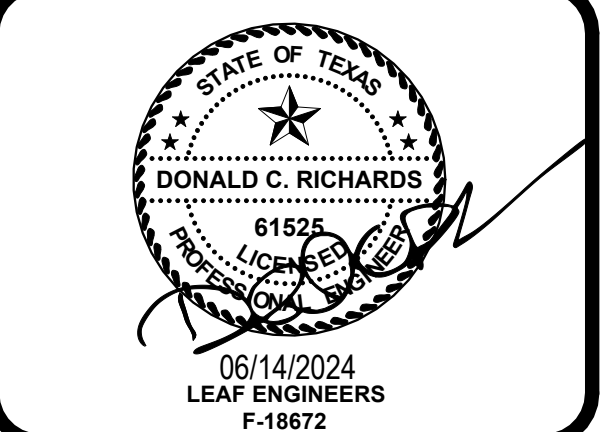
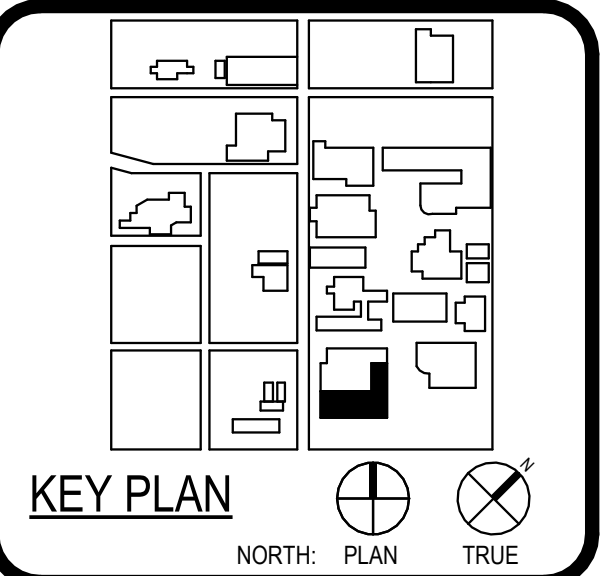


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N.W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm BR 1608
ASSOCIATE ARCHITECT	PKB ARCHITECTS 2000 1701 LANDSCAPE SUSAN LANDSCAPE 1113-4610-002 LUNY & FRANK ENGINEERING 1113-4610-002 MECHANICAL 1113-4610-002 ELECTRICAL 1113-4610-002 PLUMBING 1113-4610-002 MECHANICAL 1113-4610-002 ELECTRICAL 1113-4610-002



WFAC Black Box Addition PKG 1

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



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

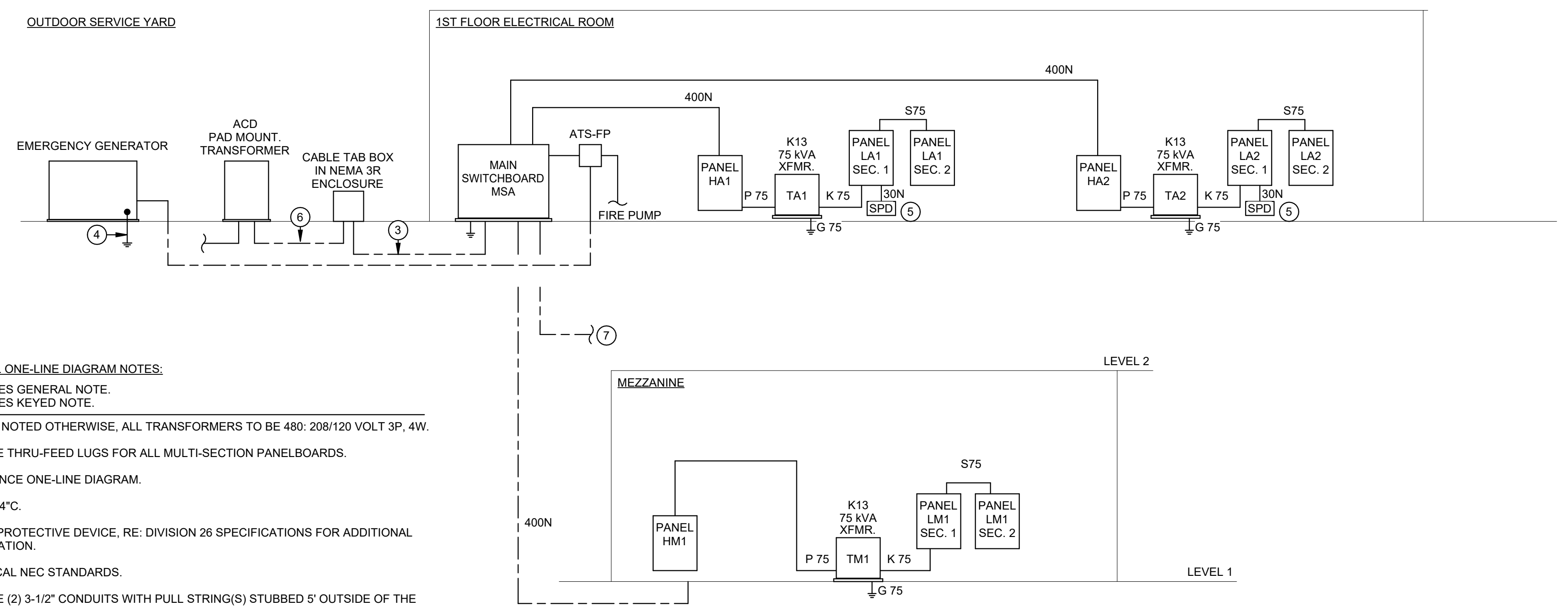
ISSUE FOR CONSTRUCTION

BUILDING NUMBER 1

**ELECTRICAL ONE-LINE DIAGRAM**



5  
1



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

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

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

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



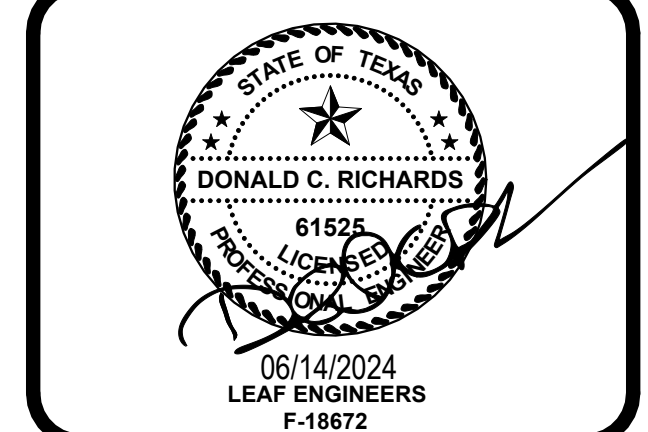
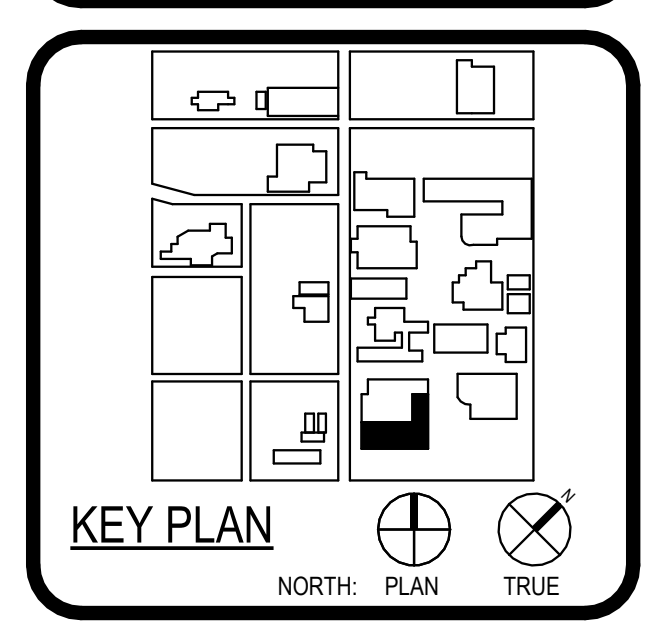
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WFAC Black Box Addition PKG 1

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

ISSUE FOR CONSTRUCTION



CLIENT		Alamo Colleges
DATE	PROJECT NUMBER	230462
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

**ELECTRICAL RISER DIAGRAM**



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), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT, PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET, COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED

LIGHTING: LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL. STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL. LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL. DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION. WALL OR BRACKET MOUNTED FIXTURE OR DEVICE. EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE, PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS

CONTROL: SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "PI" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY OPERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "Z" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER. WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER. MULTILEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER. DIGITAL TIME SWITCH. PHOTOELECTRIC CONTROL. EMERGENCY POWER OFF (EPO) PUSHBUTTON. PUSH BUTTON. WALL MOUNT OCCUPANCY SENSOR. DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR. CEILING MOUNTED RESTROOM OCCUPANCY SENSOR. CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR. CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS: 20A-125V DUPLEX RECEPTACLE. 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE. 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER. 20A-125V CONTROLLED DUPLEX RECEPTACLE. 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE. 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS. 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOLOGY AS DUPLEX RECEPTACLE. SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET. 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX, PROVIDE CARPED FLANGE WHERE APPLICABLE. LC1-X CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. RE: PANEL SCHEDULES FOR INFORMATION.

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. FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE. SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE.

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. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE, NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED, PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30NF/3 UNLESS OTHERWISE NOTED. SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE. MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED. COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER. CONTACTOR. PANELBOARD. SWITCHBOARD / DP. TRANSFORMER. GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250. BELL. "WP" INDICATED OUTDOOR RATED.

GENERAL ELECTRICAL REMODEL NOTES

- 1. UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR OTHERWISE INSTRUCTED BY THE ARCHITECT, ELECTRICAL OUTLETS SHALL HAVE THE FOLLOWING MOUNTING HEIGHTS, DIMENSIONS ARE TO CENTER OF BOX UNLESS OTHERWISE NOTED. WALL SWITCHES. WALL CONVENIENCE RECEPTACLES. WALL DATA/VOICE OUTLETS. WALL OUTLETS FOR WALL MTD. TELEPHONE. WALL CLOCK OUTLETS. MANUAL FIRE ALARM PULL STATIONS. FIRE ALARM SPEAKER/HORN. INTERIOR BELLS BUZZERS, HORNS. SPECIAL PURPOSE WALL OUTLETS. PUSH BUTTONS. ADA VISUAL ALARM. 15" AFF TO BOTTOM OF BOX. 15" AFF TO BOTTOM OF BOX. 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. \* TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT. \* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA).

- 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, OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE. 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT, CIRCUITING. 5. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION, REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED. 6. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED. 7. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS, HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS, REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS. 8. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY, ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN. 9. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY, ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER, HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER. 10. WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS. 11. WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19. 12. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES. 13. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT, IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT. 14. WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED, BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S), BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED UNDER WORK COVERED IN OTHER SECTIONS. 15. EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED, ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER, PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS. 16. CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK. 17. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS. A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16, T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS. B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES, SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGNS, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING. C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE. D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING. E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RATED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT, RACEWAY, CABLE ASSEMBLIES BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING CEILING SUPPORT WIRES, PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT, INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN. 18. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING, OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, NEC, AND STATE AND LOCAL CODES AND AMENDMENTS.

- 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. WALL CONVENIENCE RECEPTACLES. WALL DATA/VOICE OUTLETS. WALL OUTLETS FOR WALL MTD. TELEPHONE. WALL CLOCK OUTLETS. MANUAL FIRE ALARM PULL STATIONS. FIRE ALARM SPEAKER/HORN. INTERIOR BELLS BUZZERS, HORNS. SPECIAL PURPOSE WALL OUTLETS. PUSH BUTTONS. ADA VISUAL ALARM. 15" AFF TO BOTTOM OF BOX. 15" AFF TO BOTTOM OF BOX. 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. \* TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT. \* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA).

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

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

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. WALL CONVENIENCE RECEPTACLES. WALL DATA/VOICE OUTLETS. WALL OUTLETS FOR WALL MTD. TELEPHONE. WALL CLOCK OUTLETS. MANUAL FIRE ALARM PULL STATIONS. FIRE ALARM SPEAKER/HORN. INTERIOR BELLS BUZZERS, HORNS. SPECIAL PURPOSE WALL OUTLETS. PUSH BUTTONS. ADA VISUAL ALARM. 15" AFF TO BOTTOM OF BOX. 15" AFF TO BOTTOM OF BOX. 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 7'-0" AFF (OR ABOVE CHALKBOARDS WHERE REQUIRED). 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 1'-0" BELOW CEILING, OR IN CEILING, AS REQUIRED\*. 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 15" AFF TO BOTTOM OF BOX (OR HIGHER AS REQUIRED TO SERVE EQUIPMENT). 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. 80" AFF TO BOTTOM OF LENS OR 6" BELOW CEILING, WHICHEVER IS LOWER, ENTIRE LENS TO BE WITHIN 80" TO 96" AFF\*. \* TOP OF BOX SHALL BE 42" AFF MAX. FOR WHEELCHAIR FRONTAL APPROACH AND 48" AFF MAX. FOR SIDE APPROACH. VERIFY EXACT HEIGHT WITH ARCHITECT. \* 7'-0" AFF TO BOTTOM OF DEVICE IF DEVICE PROTRUDES MORE THAN 4" FROM WALL (PER ADA).

- 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, OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE. 4. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT, CIRCUITING. 5. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION, REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED. 6. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED. 7. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS, HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS, REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS. 8. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY, ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN. 9. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY, ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER, HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER. 10. WHERE DOORS ARE ADDED, OR PORTIONS OF WALLS REMOVED, CONTRACTOR SHALL REMOVE OR RELOCATE ALL ELECTRICAL WORK NECESSARY FOR THE REMODELING MODIFICATION, WHETHER OR NOT THIS WORK IS NOTED ON PLANS. 11. WHERE EXISTING JUNCTION BOXES ARE COVERED OR REMOVED, CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO COMPLY WITH NEC 314-19. 12. EXISTING ELECTRICAL BOXES TO REMAIN IN AREAS WHERE NEW WALL FINISHES ARE TO BE APPLIED SHALL BE RESET AS NECESSARY TO PROVIDE FLUSH MOUNTING FOR BOXES. 13. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT, IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT. 14. WHEN EXISTING ELECTRICAL WORK IS REMOVED, ALL EXPOSED CONDUIT, WIRING, CONTROL AND JUNCTION BOXES ALONG WALLS, FLOOR, AND CEILING SHALL BE REMOVED, BRANCH CIRCUIT WIRES SHALL BE REMOVED BACK TO CIRCUIT BREAKER(S), BLANK COVER PLATES SHALL BE PROVIDED FOR RECESSED UNDER WORK COVERED IN OTHER SECTIONS. 15. EXISTING RECESSED INCANDESCENT AND HID LUMINAIRES DESIGNATED FOR TEMPORARY REMOVAL AND RE-USE SHALL BE STORED, ALL SUCH LUMINAIRES NOT THERMALLY PROTECTED PER NEC 410-118 AND 410-130(F) ARE NOT SUITABLE FOR RE-USE AND SHALL BE GIVEN TO THE OWNER, PROVIDE NEW REPLACEMENT LUMINAIRES WITH UL THERMAL PROTECTION, IDENTICAL APERTURE, EQUIVALENT PHOTOMETRICS AND NEW LAMPS. 16. CONTRACTOR TO REFER TO ARCHITECTURAL DEMOLITION PLANS AND PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK. 17. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS. A. 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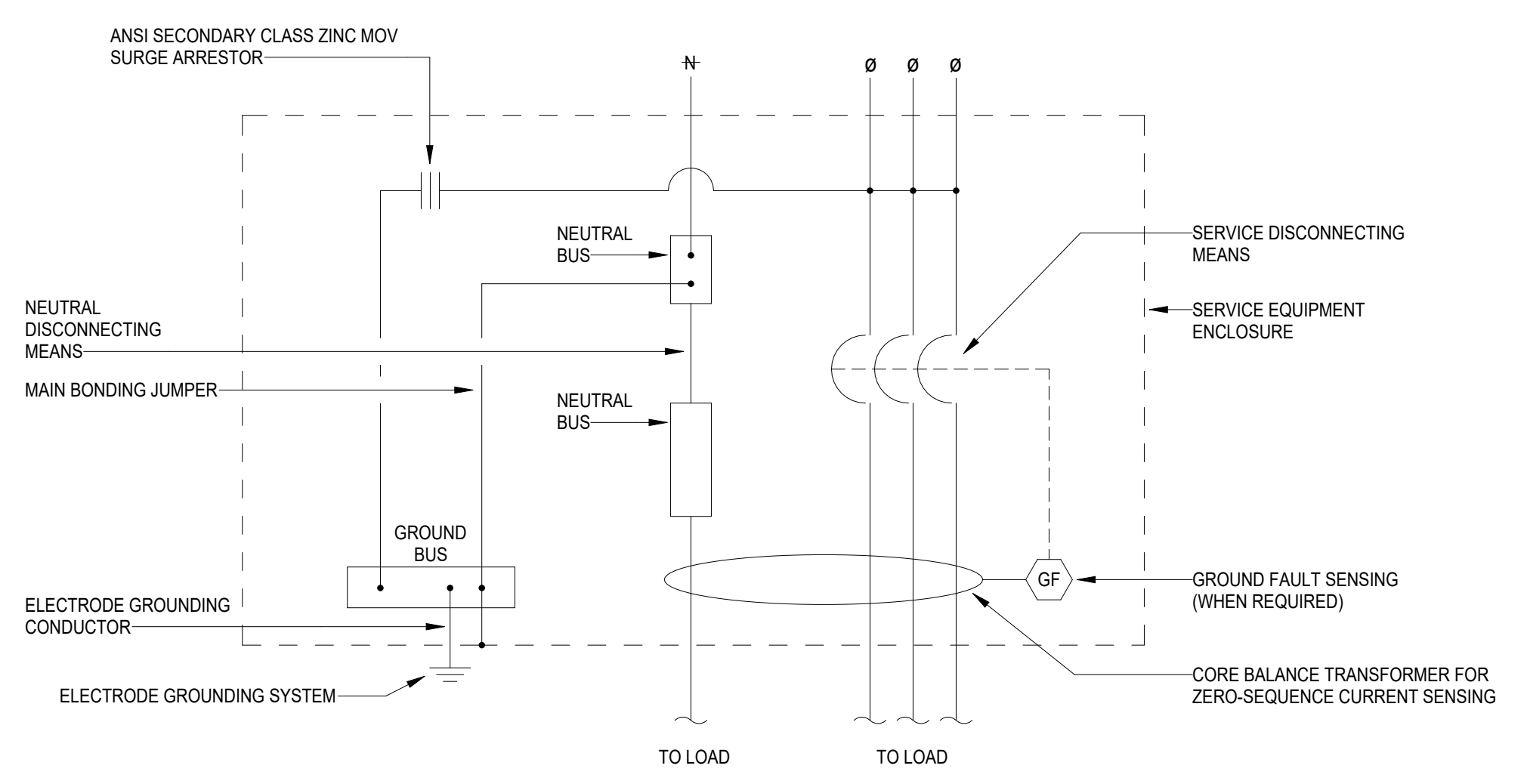
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LIGHTING FIXTURE NOTES

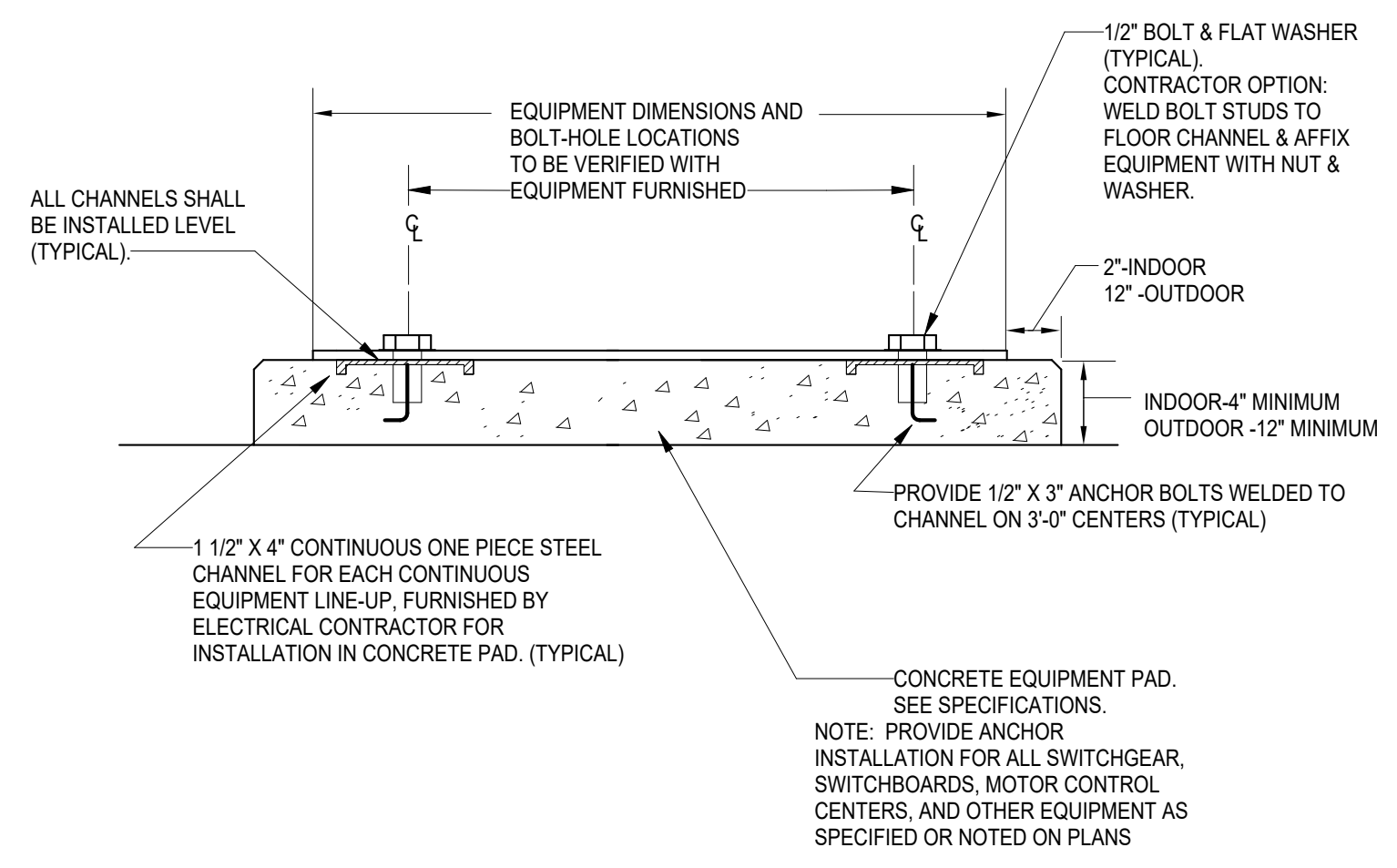
KEY TO NOTE PREFIXES: "G" NOTES ARE "GENERAL" LIGHTING NOTES THAT APPLY TO THE ENTIRE PROJECT, "S" NOTES ARE "SCHEDULE" NOTES THAT APPLY TO SPECIFIC LUMINAIRES.

- G.1 REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR THE EXACT LOCATION OF ALL LUMINAIRES, ARCHITECTURAL PLANS SHALL GOVERN FOR LOCATION AND LAYOUT, IF ARCHITECTURAL AND ELECTRICAL DRAWINGS CONFLICT IN EXACT COUNT OR FIXTURE TYPE, PROVIDE THE GREATER QUANTITY OR COST TYPE UNLESS OTHERWISE INSTRUCTED. G.2 REFER TO DIVISION 26 ELECTRICAL SPECIFICATIONS FOR ADDITIONAL LUMINAIRE AND ELECTRICAL REQUIREMENTS (LENS, AIR HANDLING CHARACTERISTICS, T-BAR CLIPS, BALLAST, LAMPS, TIME FRAME FOR SUBMITTAL OF SUBSTITUTE LIGHT FIXTURES FOR PRIOR APPROVAL, ETC.). G.3 FOR EACH SCHEDULED LUMINAIRE, PROVIDE ALL REQUIRED APPURTENANCES FOR INSTALLATION IN APPLICABLE STRUCTURE OR SPECIFIED ARCHITECTURAL EILING, ALL LUMINAIRES SHALL HAVE THE APPROPRIATE NEMA TYPE FRAME THAT IS COMPATIBLE WITH THE CEILING SYSTEM SPECIFIED BY THE ARCHITECT, ELECTRICAL DRAWINGS DO NOT INDICATE CEILING TYPES, CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS TO DETERMINE CEILING TYPE (GRID, FLANGE, SPLINE, SCREW SLOT, ETC.) AND PROVIDE APPROPRIATE FRAME. G.4 EXIT SIGNS AND OTHER LUMINAIRES SHALL NOT BE SUPPORTED BY CEILING TILE, PROVIDE MOUNTING FRAME OR HANGERS TO SECURELY FASTEN IN PLACE, ALL LUMINAIRES MOUNTED IN CEILING TILE, FRAMING MEMBERS OF A SUSPENDED CEILING SYSTEM MAY BE USED WHERE DESIGNED FOR THE PURPOSE AND INSTALLED PER NEC 410-16(c). G.5 WHERE A SURFACE-MOUNTED LUMINAIRE CONTAINING A BALLAST IS TO BE INSTALLED ON COMBUSTIBLE LOW-DENSITY CELLULOSE FIBERBOARD, IT SHALL BE LISTED FOR THIS CONDITION OR SHALL BE SPACED NOT LESS THAN 1 1/2 INCHES FROM THE SURFACE OF THE FIBERBOARD (NEC 410-76(b)). G.6 REQUEST FOR SUBSTITUTION SHALL FOLLOW SPECIFIED PROCEDURES AND SHALL INCLUDE A WORKING SAMPLE SUITABLE FOR TABLE TOP EXAMINATION. S.1 UNLESS OTHERWISE NOTED, MOUNT EXIT SIGN DIRECTLY ABOVE EGRESS DOOR (MAXIMUM 24" ABOVE DOOR), PROVIDE WALL MOUNT EXIT SIGNS IN HIGH CEILING AREAS, PROVIDE WINDOW MULLION MOUNTING WITH CONCEALED WIRING WHERE REQUIRED, COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO ROUGH-IN.

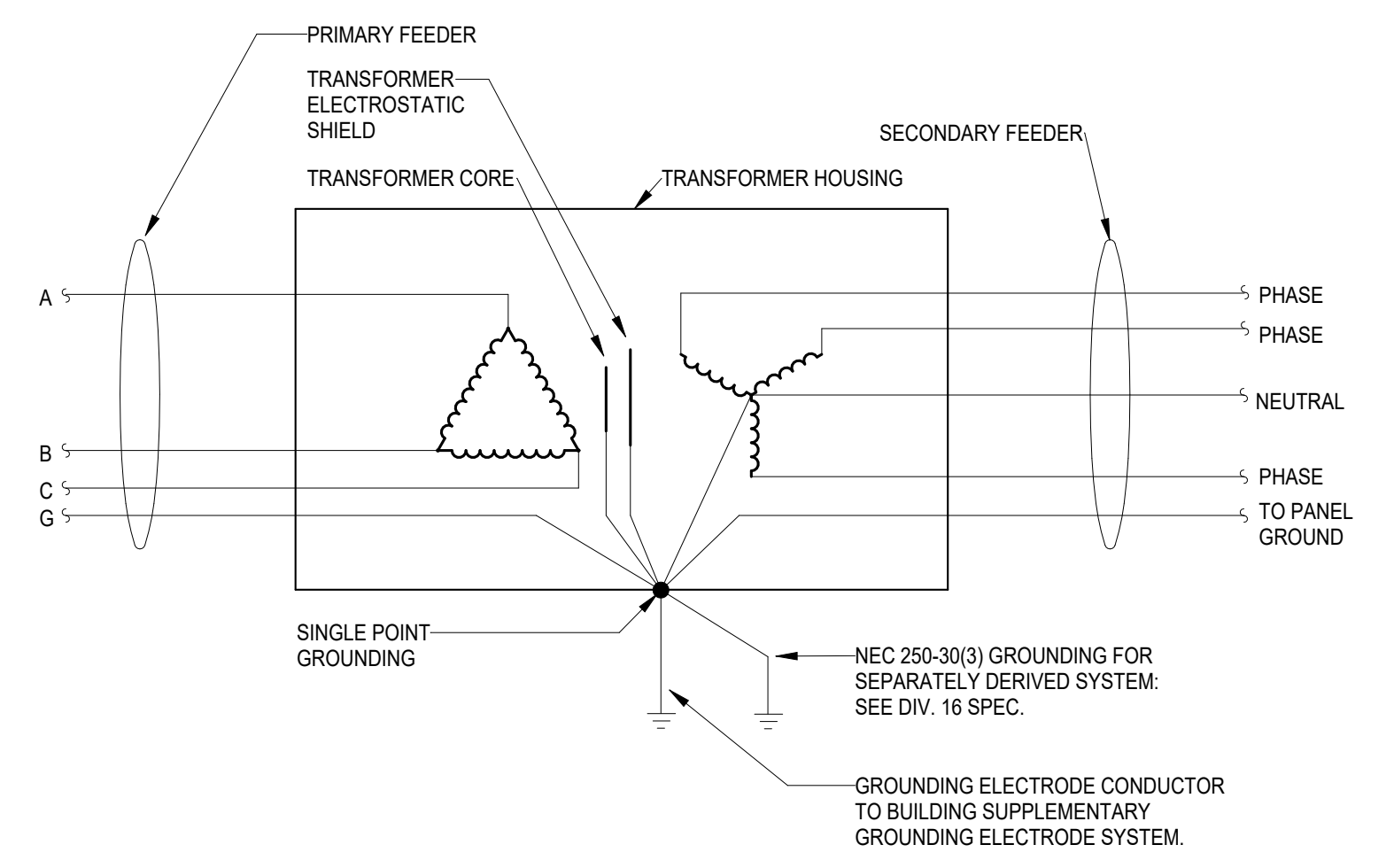




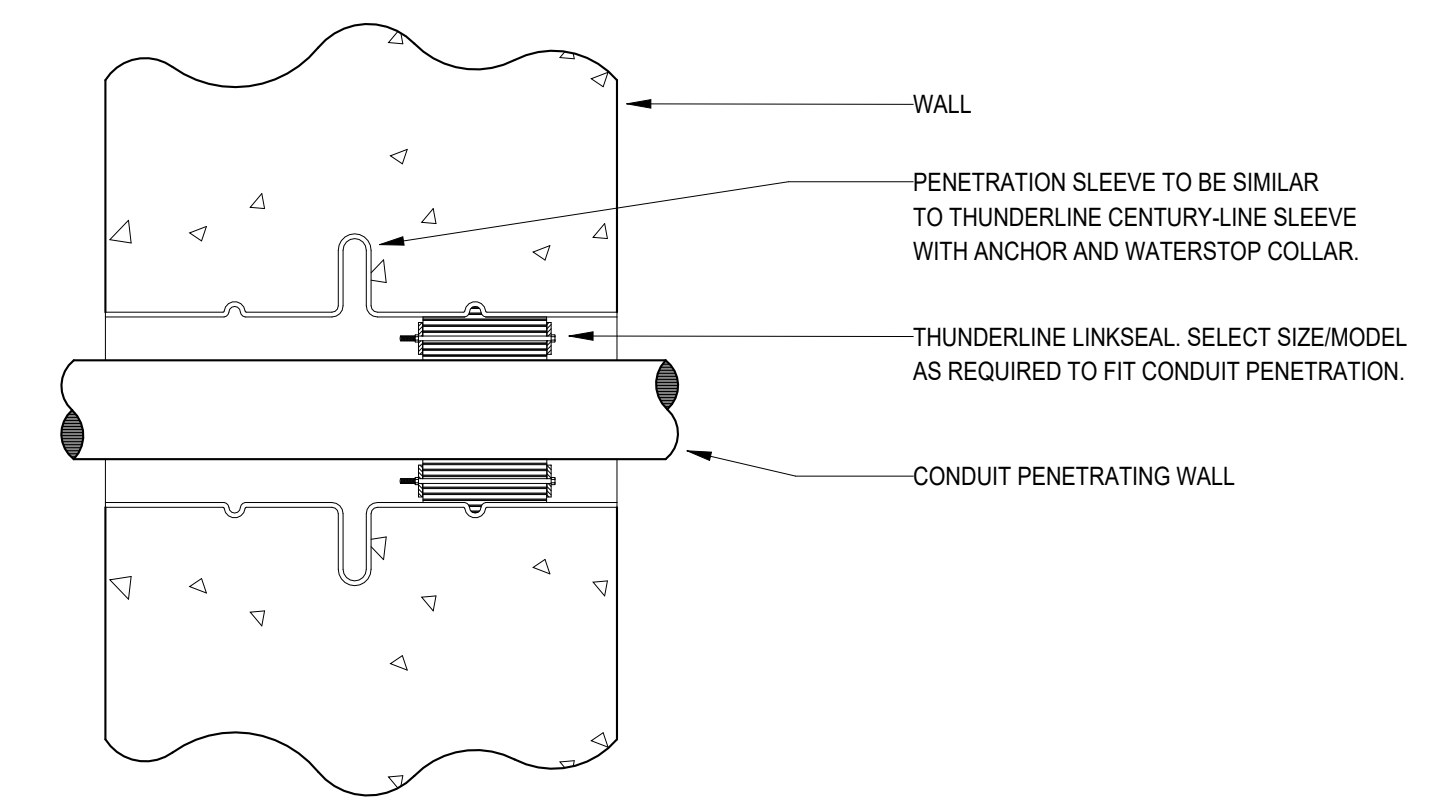
**4** ELECTRIC SERVICE GROUNDING DETAIL  
NOT TO SCALE



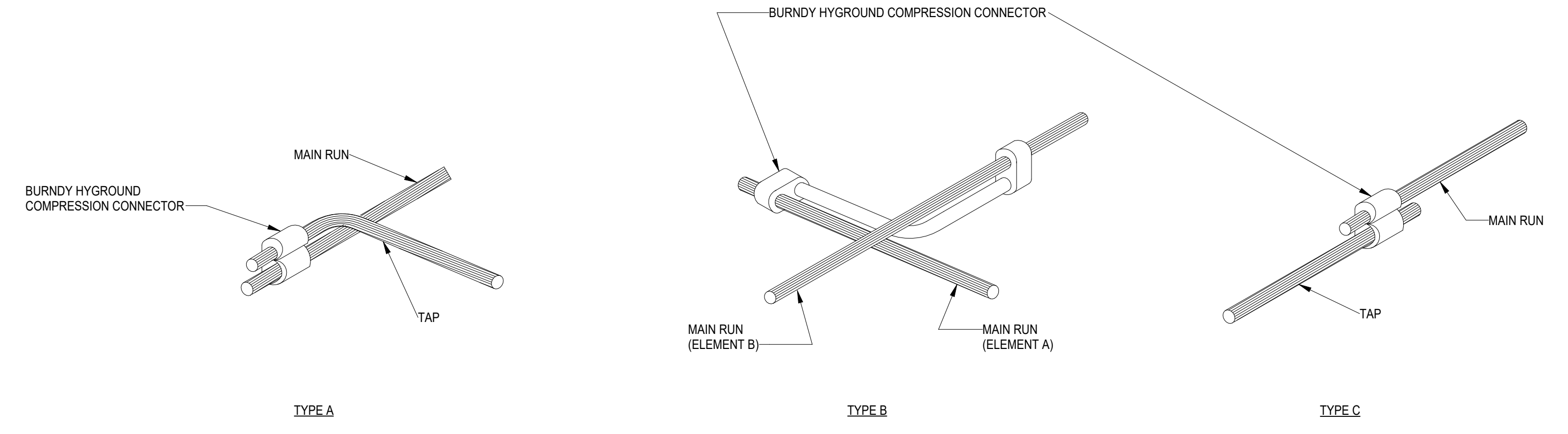
**3** EQUIPMENT ANCHOR DETAIL  
NOT TO SCALE



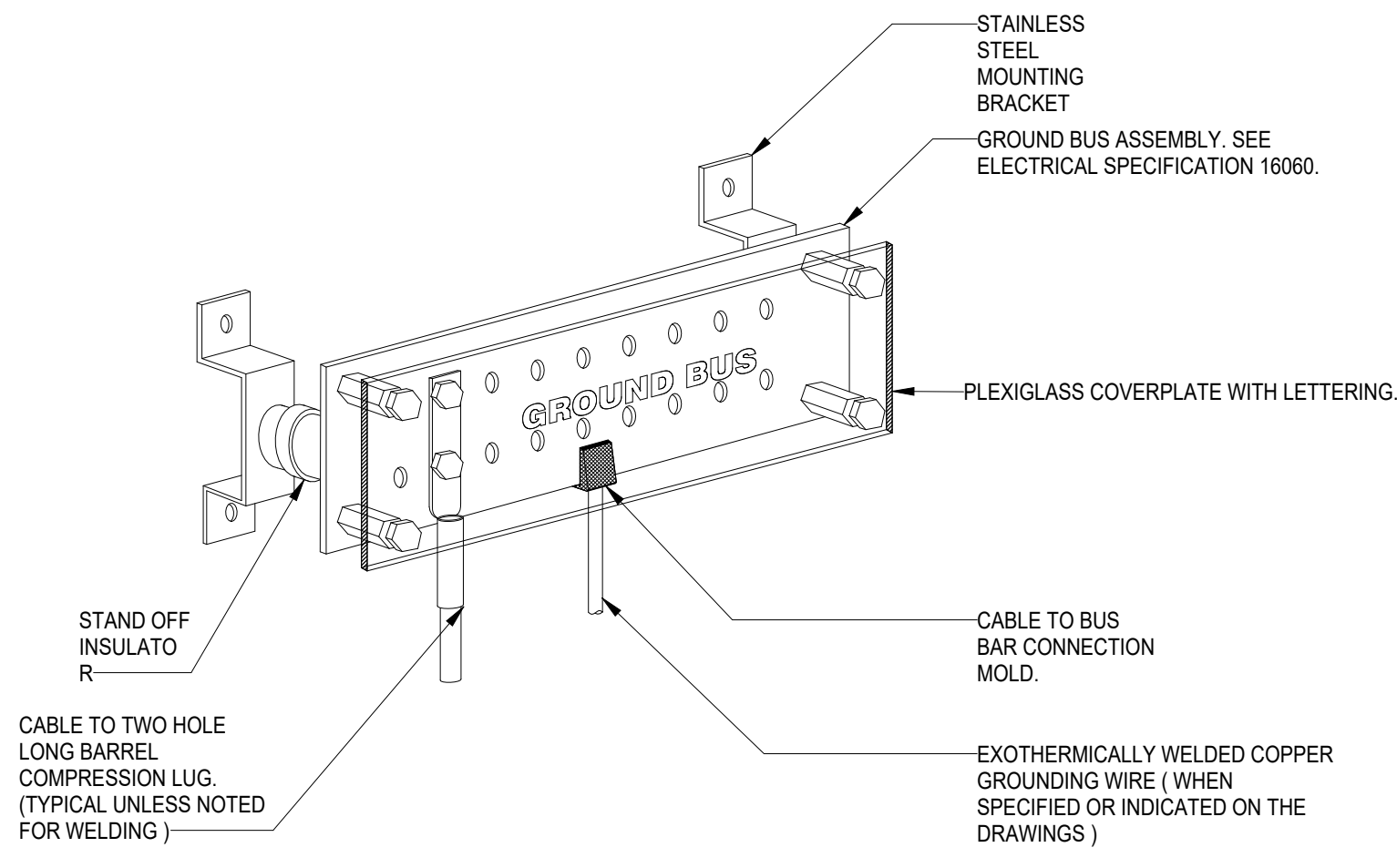
**2** DELTA-WYE TRANSFORMER SCHEMATIC  
NOT TO SCALE



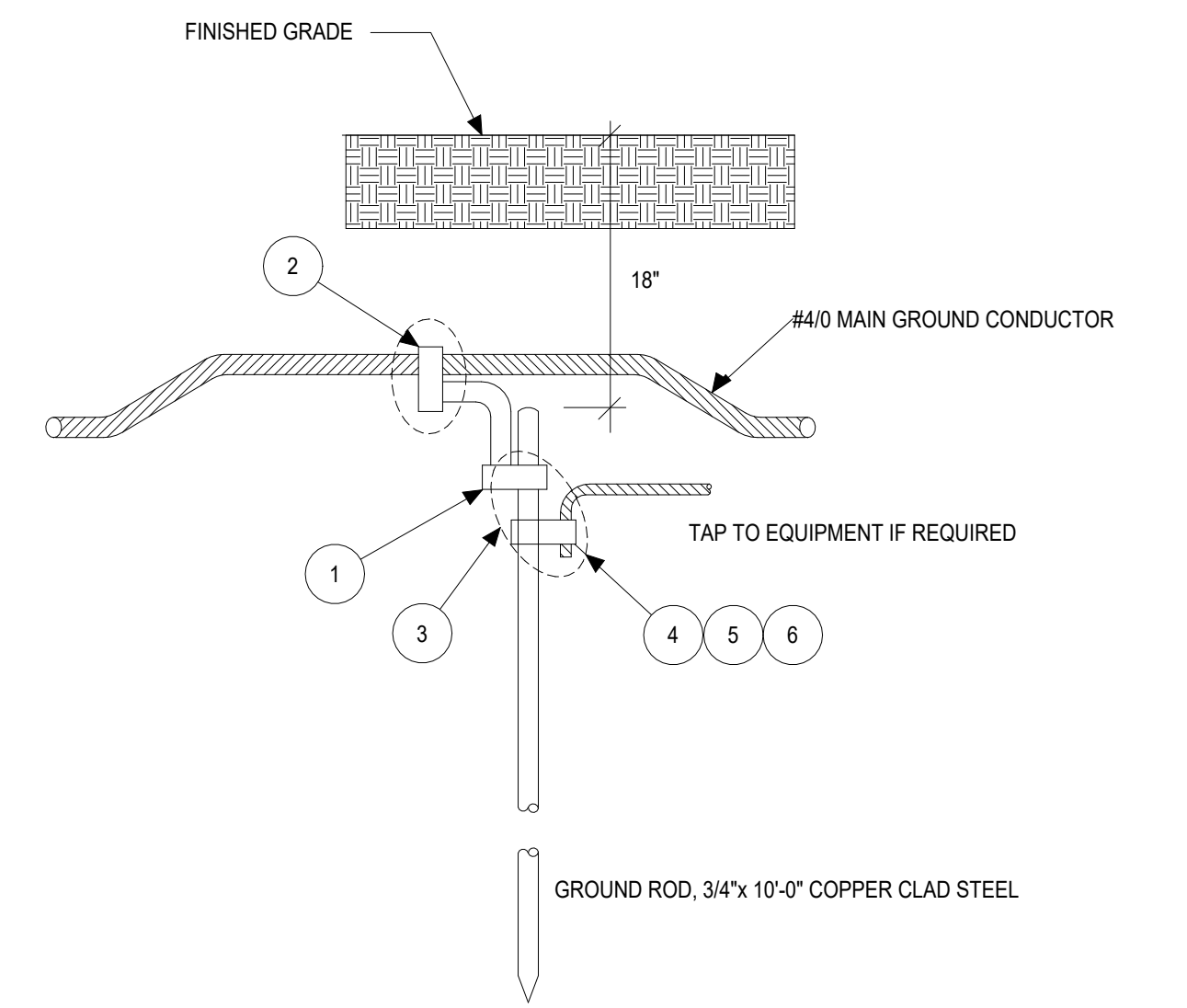
**1** CONDUIT PENETRATION DETAIL - EXTERIOR WALL  
NOT TO SCALE



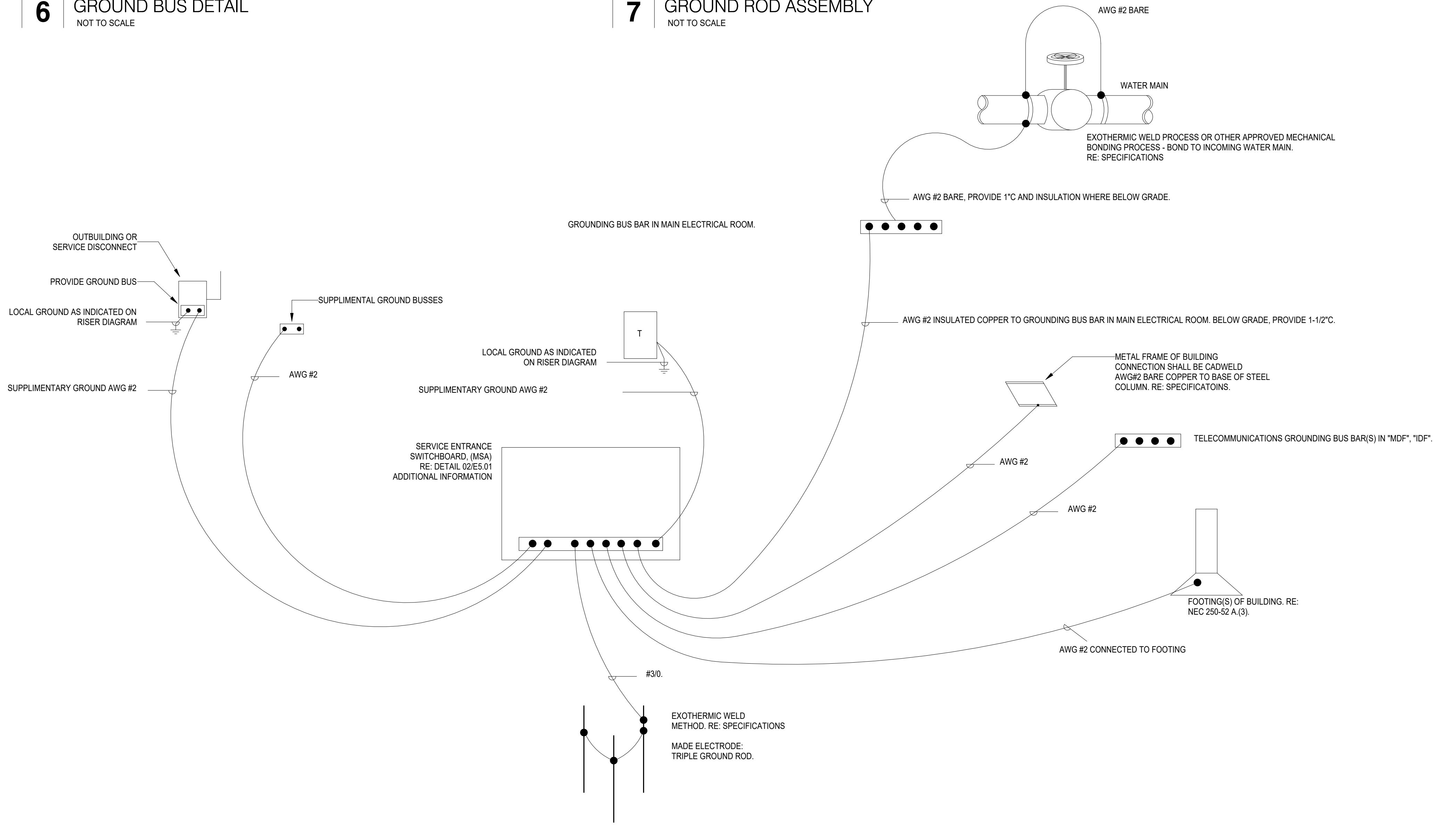
**8** GROUNDING COMPRESSION CONNECTIONS  
NOT TO SCALE



**6** GROUND BUS DETAIL  
NOT TO SCALE



**7** GROUND ROD ASSEMBLY  
NOT TO SCALE



**5** ELECTRICAL GROUNDING REQUIREMENTS  
NOT TO SCALE

**KEYED NOTES:**

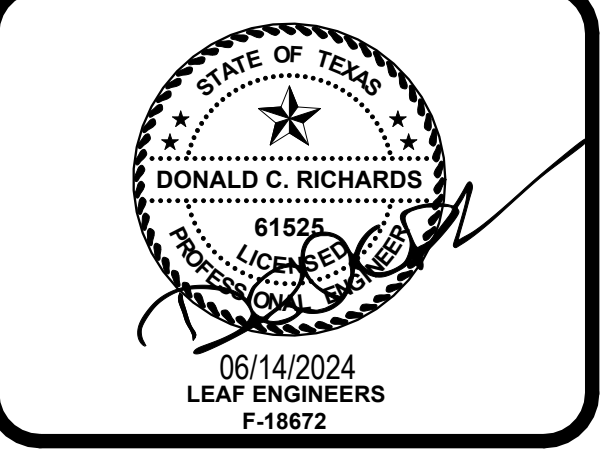
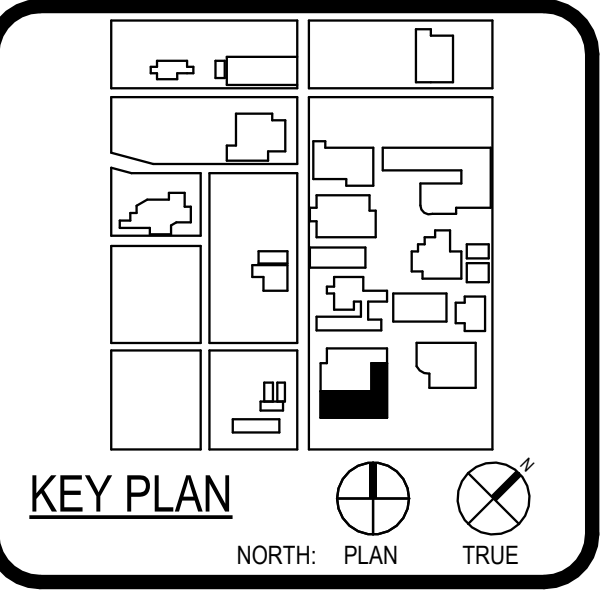
- 1 REQUIRES BURNDY Y750 PRESS WITH U99 FOR INSTALLATION.
- 2 CRIMP CONNECTOR, #2 TO 250 KCMIL TO 3/4\"/>



ARCHITECT	PRK 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 13000 210-829-5578 LANDSCAPE 13000 210-829-5578 LUNY & FRANK ENGINEERING 13000 210-829-5578 ME 13000 210-829-5578 MEAS PROFESSIONALS 13000 210-829-5578 MEAS 13000 210-829-5578



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

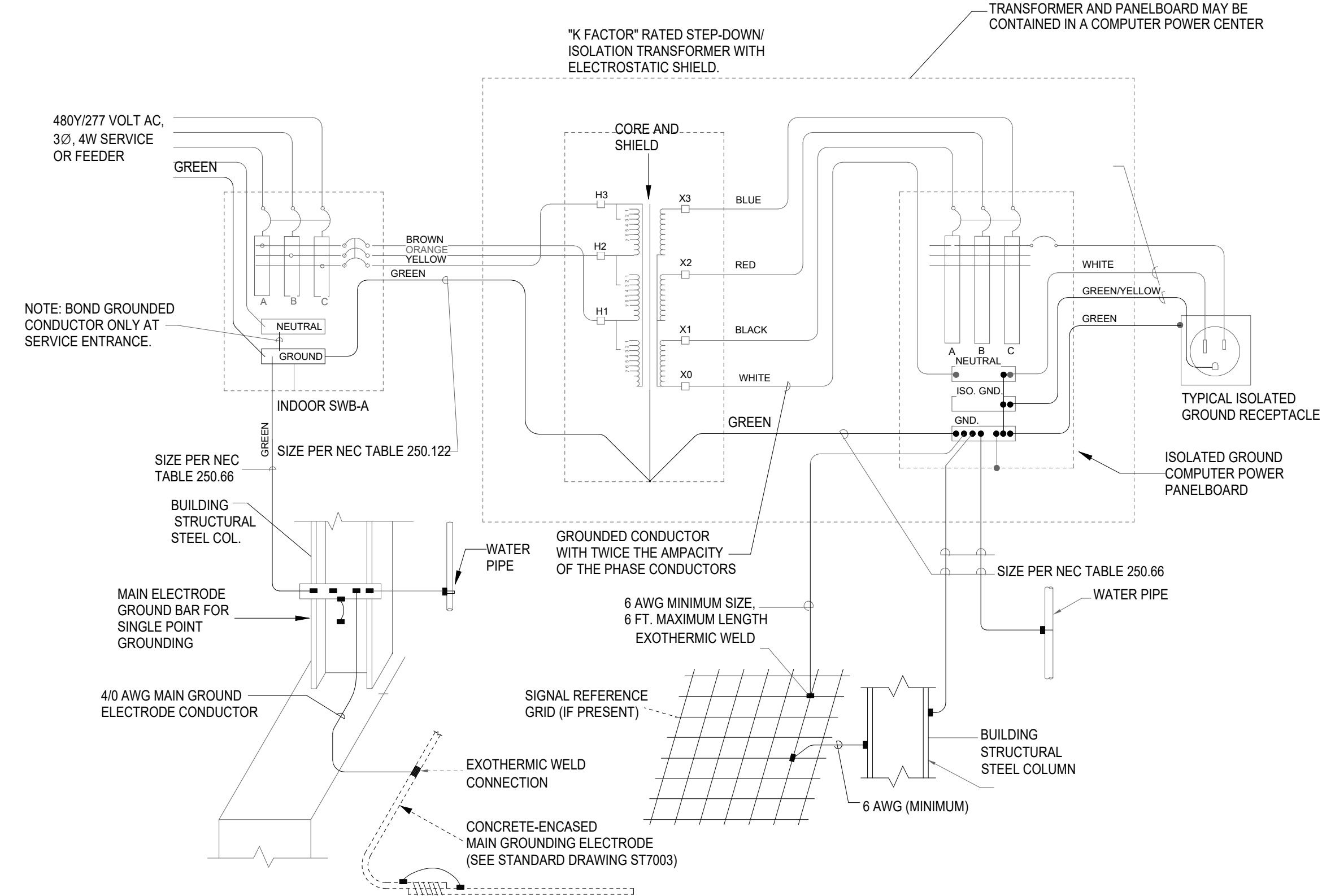
ELECTRICAL DETAILS



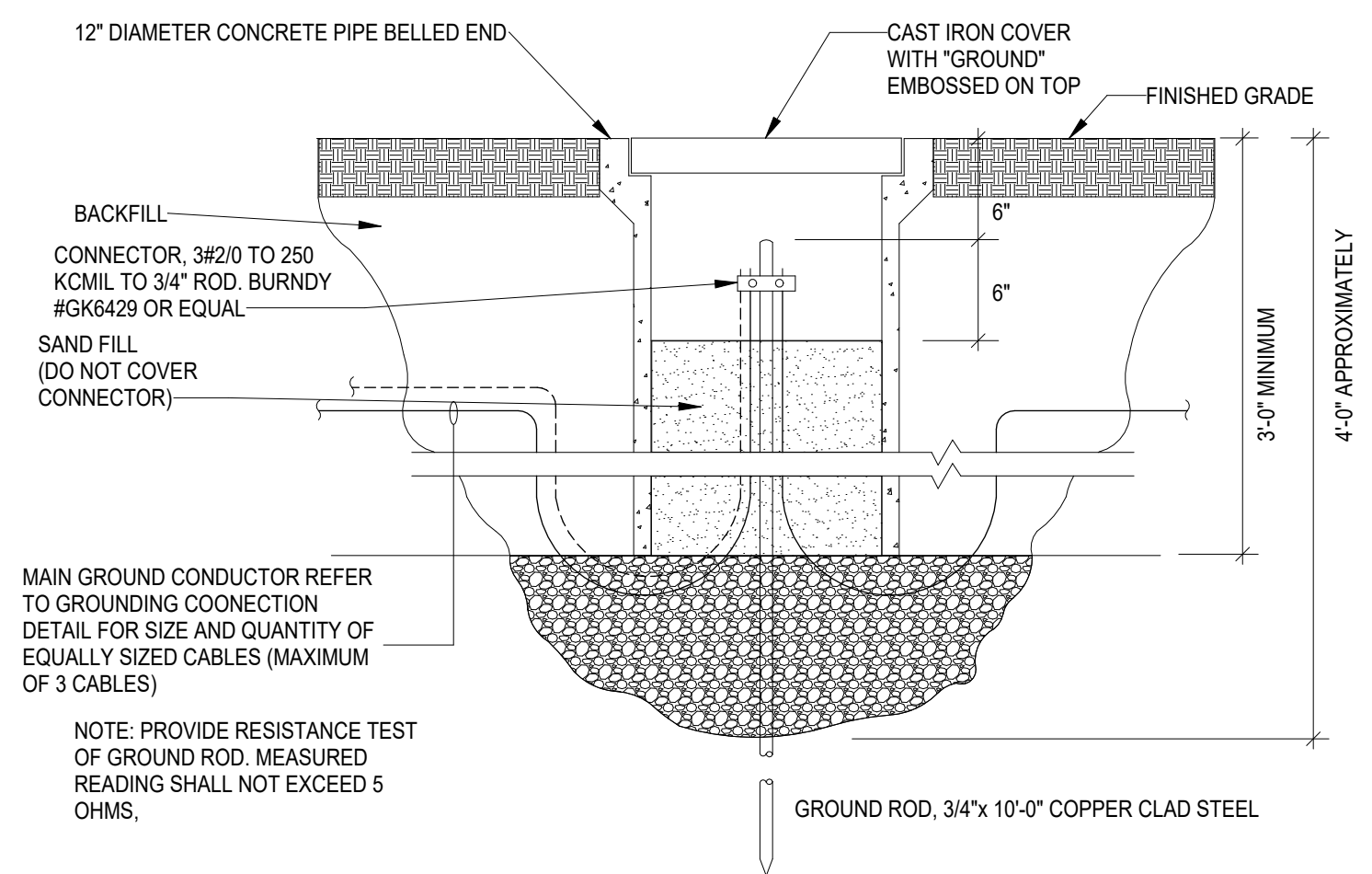
# ISSUE FOR CONSTRUCTION

File Path: Autocad Doss:\Alamo CS\_230462\_Ar Philip College WFB Add#E23 WFAC - Blackbox Addition - A23.rvt  
CHECKED BY: Checker  
DRAWN BY: Author  
Plot Stamp: 6/13/2024 12:24:06 PM

## 2 ISOLATED GROUND DETAIL NOT TO SCALE



## 3 GROUND WELL ASSEMBLY NOT TO SCALE



### GENERAL NOTES

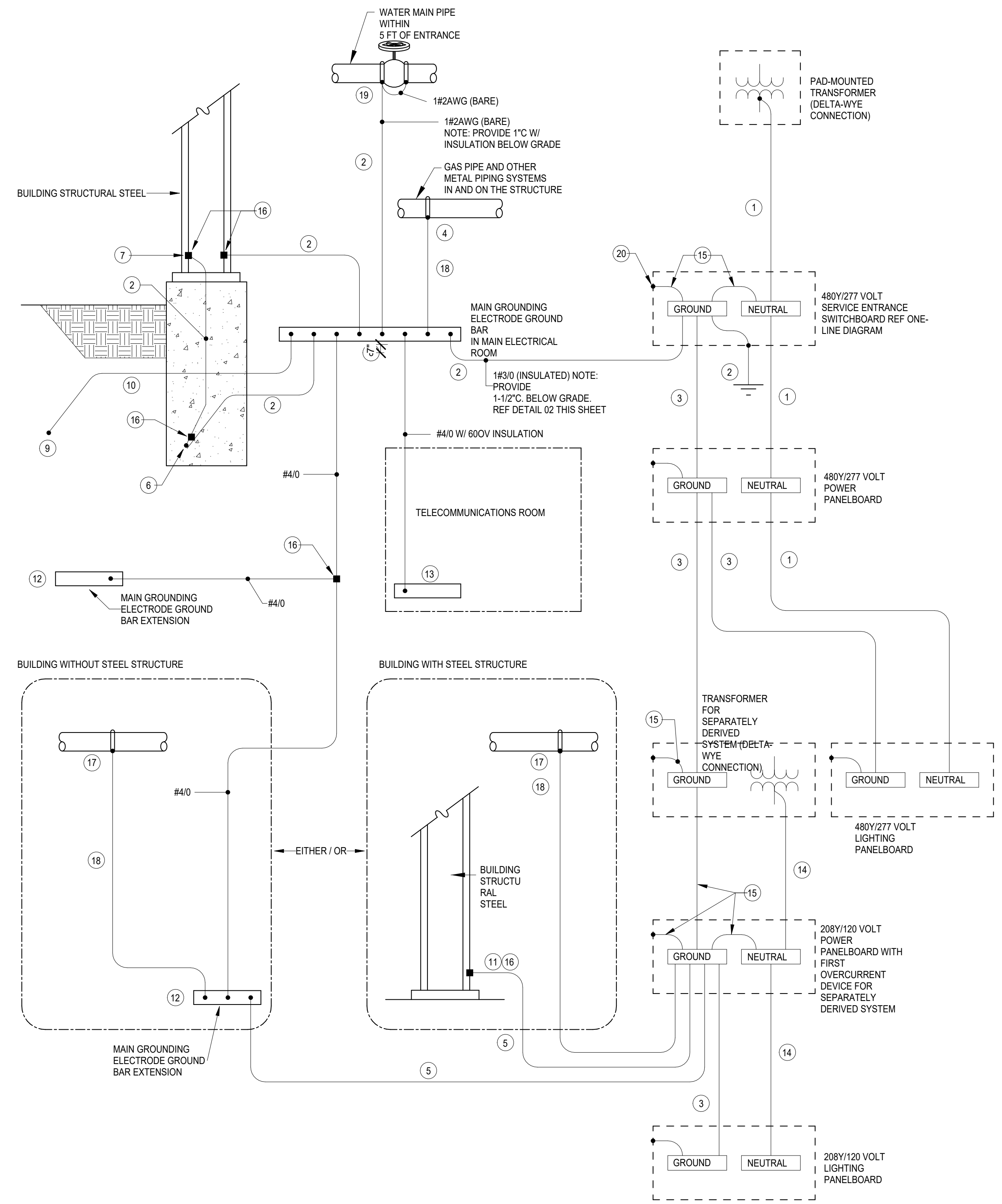
- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON 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 28 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" (#8 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#5 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 28 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 28 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 28 05 26.
- TYPICAL EXOTHERMIC WELD PROCESS OR OTHER APPROVED MECHANICAL BONDING PROCESS. REFER SPEC 28 05 26, UNLESS NOTED OTHERWISE.

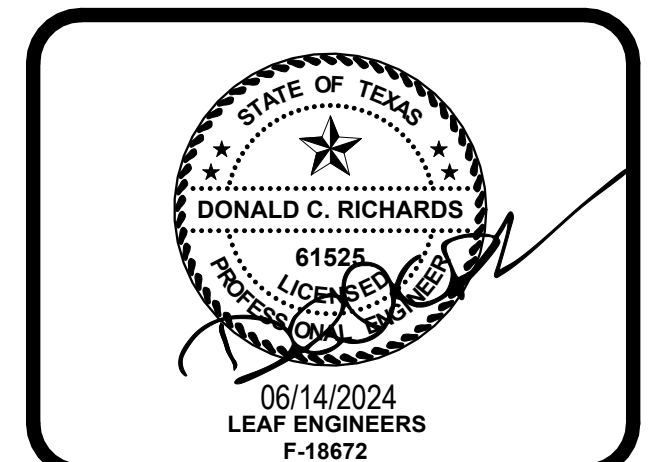
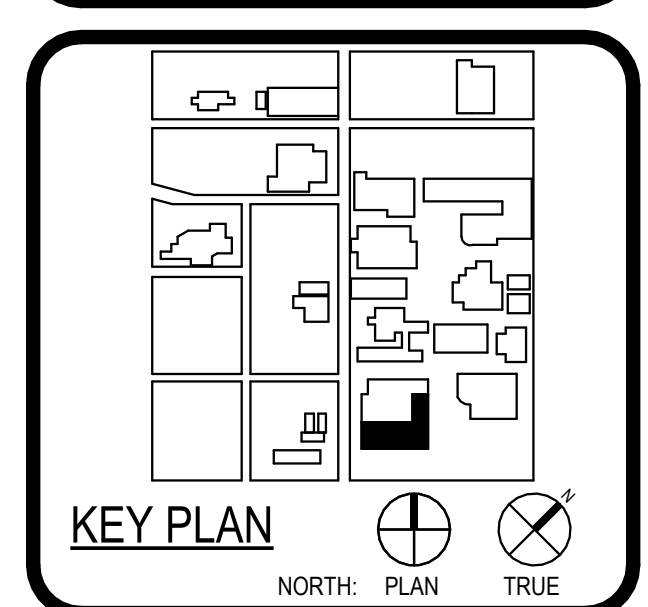
## 1 GROUNDING CONNECTION DETAIL SCALE: NOT TO SCALE



ARCHITECT PBK Architects, Inc.  
SAN ANTONIO  
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CLIENT		Alamo Colleges
DATE	06/14/2024	PROJECT NUMBER
DRAWING HISTORY		230462
No.	Description	Date

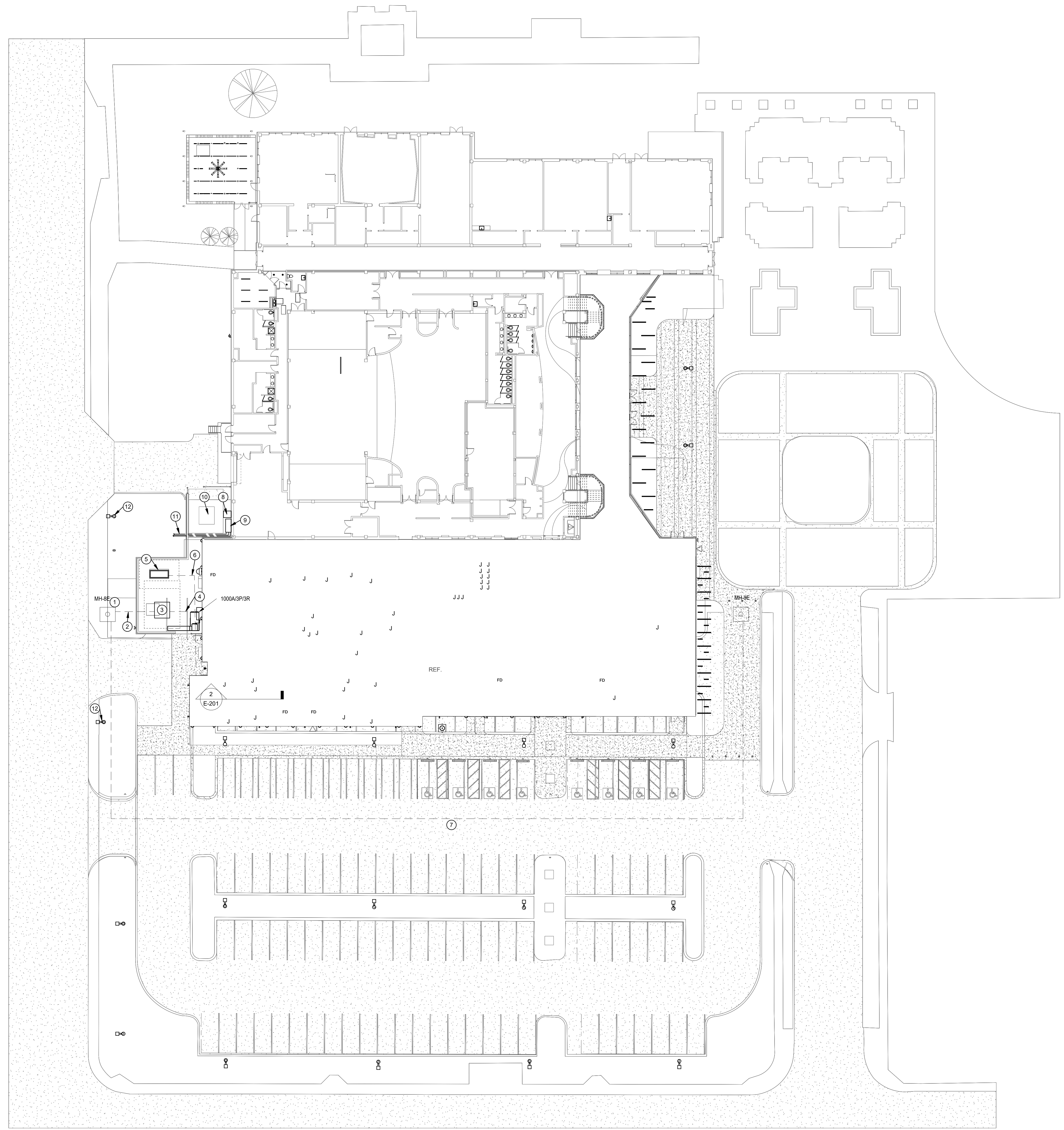
ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

ELECTRICAL DETAILS

E-603



# ISSUE FOR CONSTRUCTION



**SITE PLAN GENERAL NOTES:**

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

**SITE PLAN KEYED NOTES:**

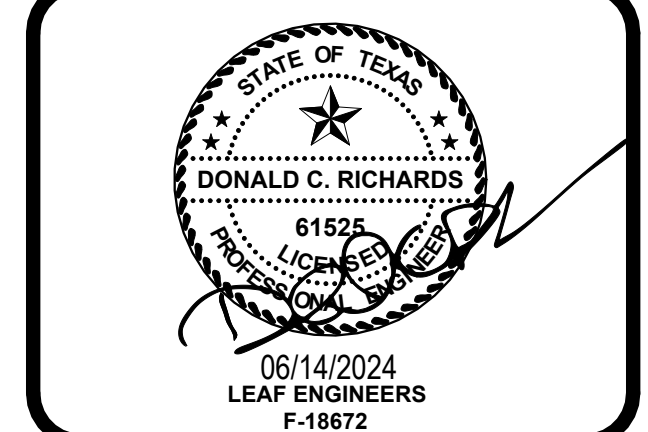
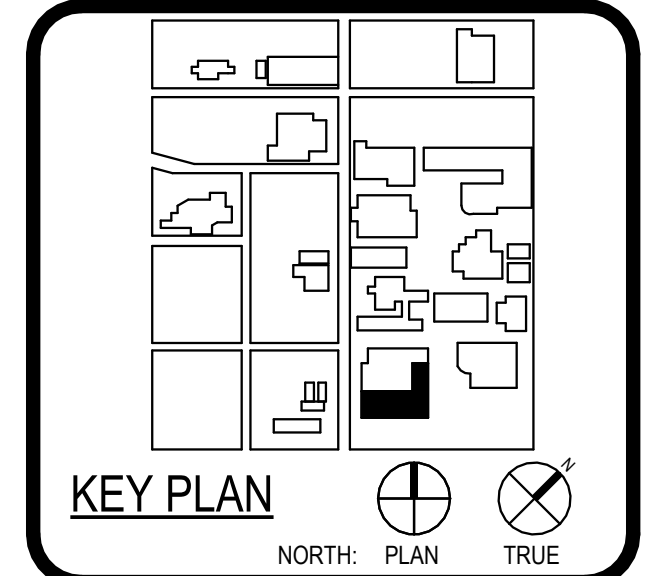
- 1 EXISTING ELECTRICAL MANHOLE.
- 2 NEW UNDERGROUND EASEMENT FOR NEW PRIMARY POWER FOR UTILITY TRANSFORMER. FIELD VERIFY THAT SPARE CAPACITY IS AVAILABLE.
- 3 NEW 480/277V 750KVA TRANSFORMER SHALL BE PROVIDED FROM ALAMO COLLEGES. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS PROVIDE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



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ASSOCIATE ARCHITECT	B&A ARCHITECTS 1100 N. LOOP WEST SUITE 1000 DALLAS, TEXAS 75202 214-742-1000
LANDSCAPE ARCHITECT	LANDSCAPE 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000
MECHANICAL ENGINEER	LUNY & FRANK ENGINEERING 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000
ELECTRICAL ENGINEER	MEYER PROFESSIONALS 1111 W. 14TH STREET SUITE 1000 DALLAS, TEXAS 75202 214-742-1000



WFAC Black Box Addition PKG 1



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

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

SITE POWER PLAN

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



PROJECT GENERAL NOTES

- A. ALL EQUIPMENT AND/OR SYSTEMS NOTED ON THE DRAWINGS TO REMAIN SHALL BE INSPECTED AND TESTED ON SITE TO CERTIFY WORKING CONDITION... B. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AS WELL AS ALL LOCAL REGULATIONS THAT MAY APPLY... 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 ACID VENT, ACID WASTE, COMPRESSED AIR, COLD WATER, DEMOLISHED PIPING OR EQUIPMENT, CONDENSATE, DRY SPRINKLER, EXISTING PIPING OR EQUIPMENT, FIRE, NATURAL GAS, GREASE WASTE, HOT WATER, HOT WATER RETURN, OVERFLOW DRAIN, STORM DRAIN, SPRINKLER, SANITARY SEWER, VENT, DIRECTION OF FLOW, DROP IN PIPE, RISE IN PIPE, GATE VALVE, BALL VALVE, CHECK VALVE, SUPERVISED VALVE WITH FLOW SWITCH, PLUG VALVE / GAS COCK, BUTTERFLY VALVE, HOT WATER BALANCING VALVE, PIPE UNION, PRESSURE CONTROL VALVE, 3-WAY VALVE, SOLENOID VALVE, FLOW SWITCH, PRESSURE GAUGE WITH GAUGE COCK, THERMOMETER, ROOF DRAIN / OVERFLOW DRAIN, FLOOR DRAIN, FLOOR SINK, T & P RELIEF VALVE, STRAINER, END OF LINE CLEANOUT, FLOOR CLEANOUT, WALL CLEANOUT, CAP, FLEXIBLE CONNECTION, NEW CONNECTION TO EXISTING PIPING.

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.

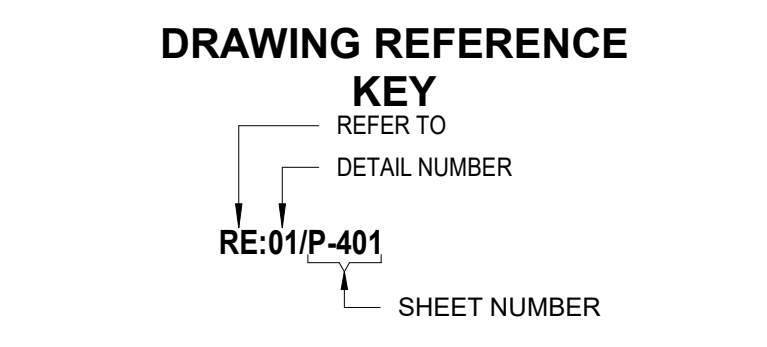
WATER HAMMER ARRESTER SCHEDULE

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. Lists slopes for 2-1/2" OR LESS, 3" TO 6", and 8" OR LARGER pipe sizes.

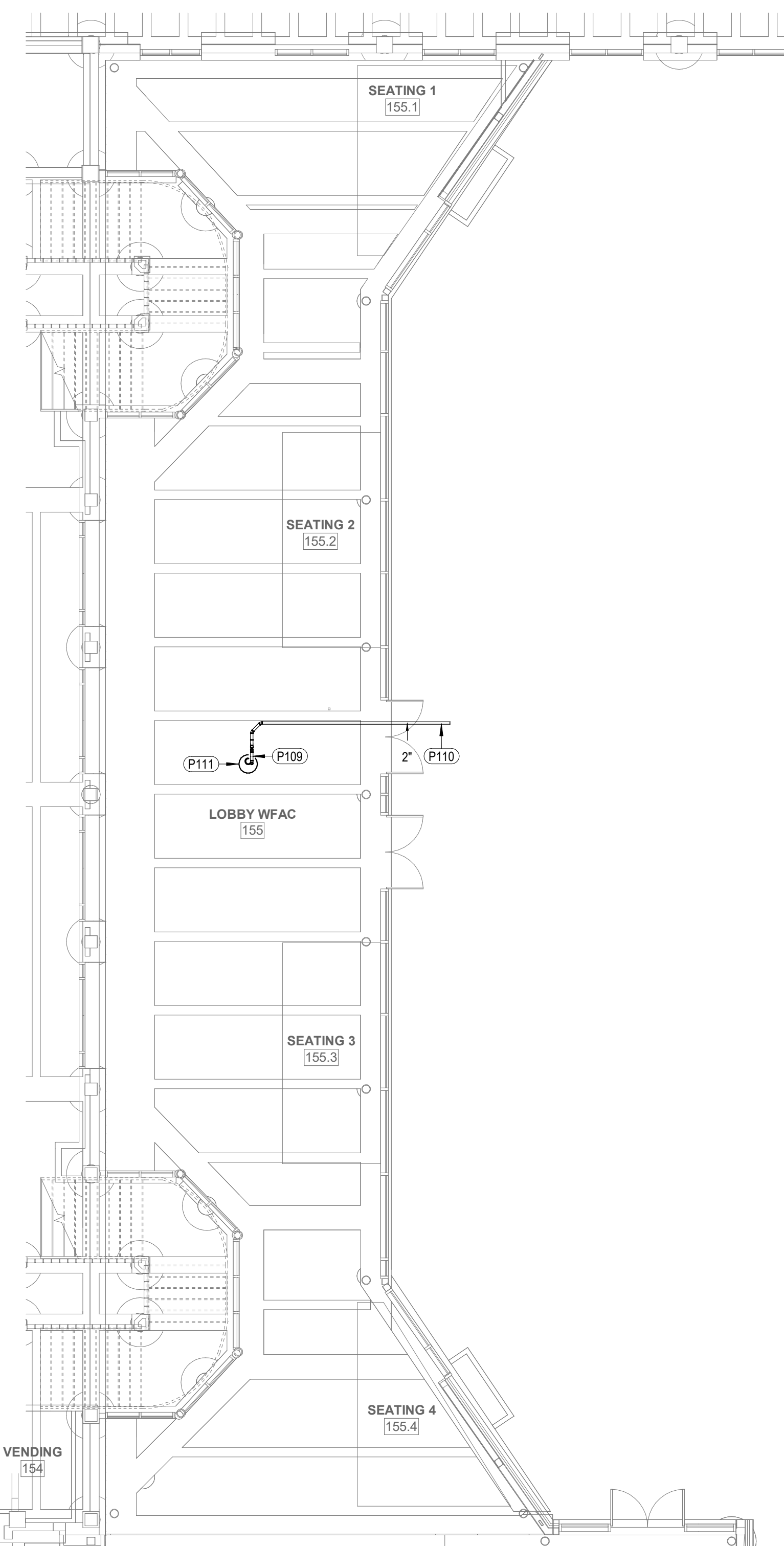
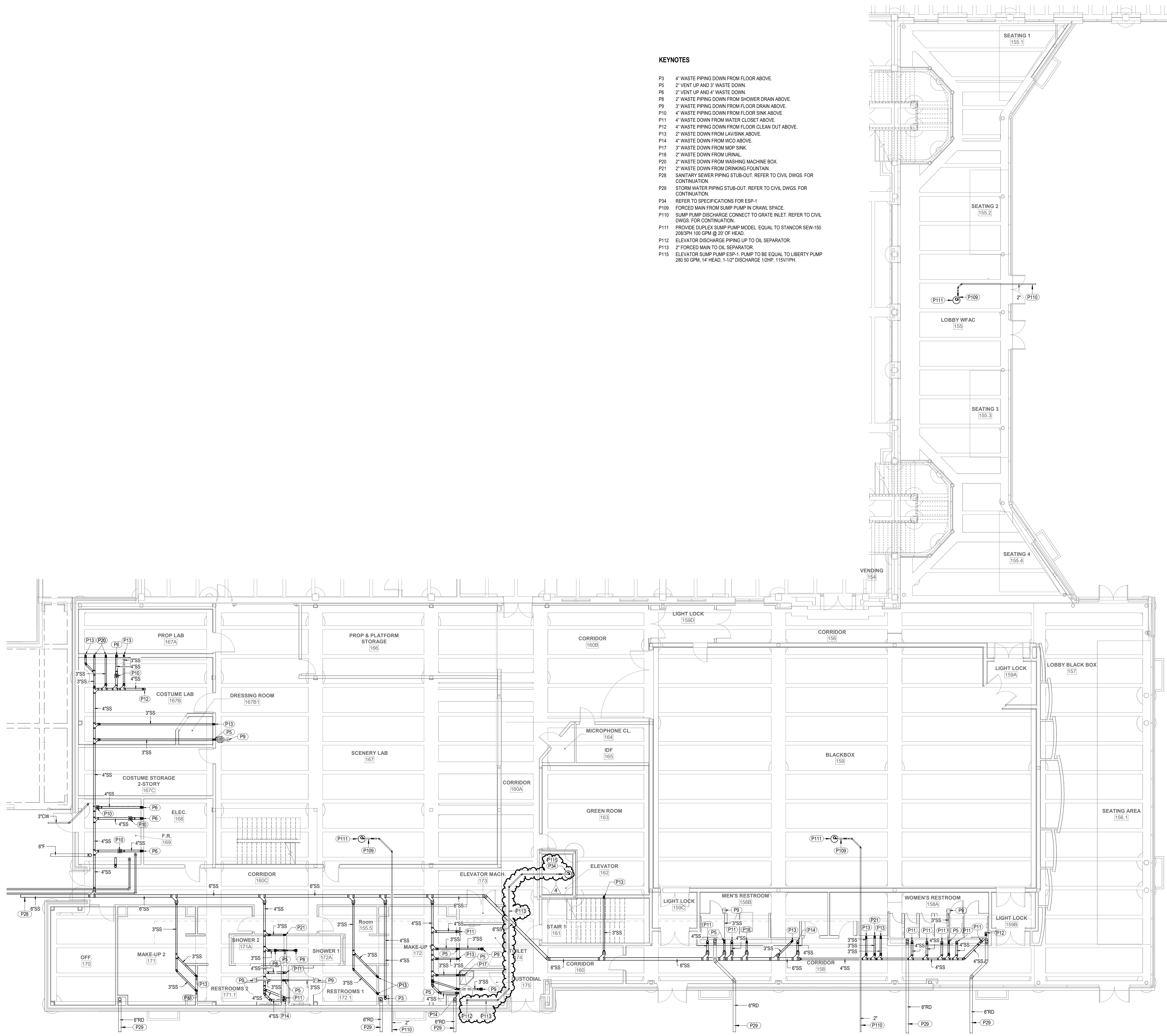


ISSUE FOR CONSTRUCTION



**KEYNOTES**

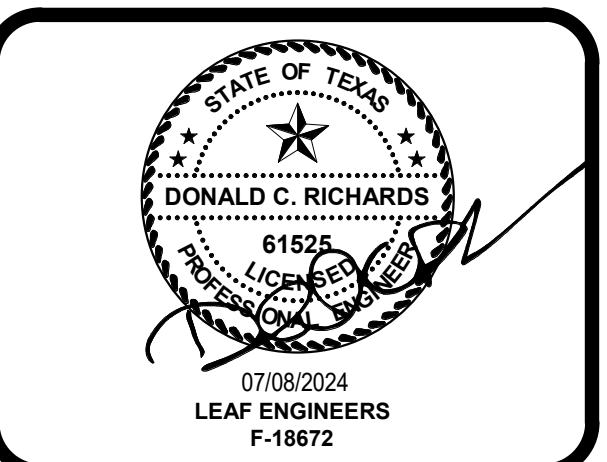
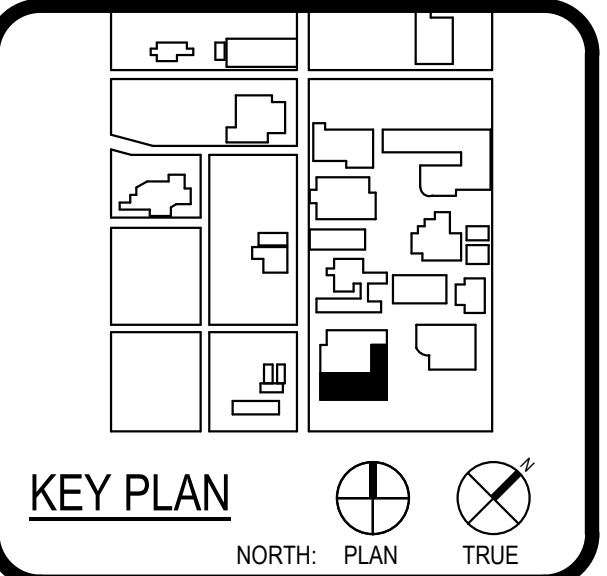
- P3 4" WASTE PIPING DOWN FROM FLOOR ABOVE.
- P5 2" VENT UP AND 3" WASTE DOWN.
- P6 2" VENT UP AND 4" WASTE DOWN.
- P8 2" WASTE PIPING DOWN FROM SHOWER DRAIN ABOVE.
- P9 3" WASTE PIPING DOWN FROM FLOOR DRAIN ABOVE.
- P10 4" WASTE PIPING DOWN FROM FLOOR SINK ABOVE.
- P11 4" WASTE DOWN FROM WATER CLOSET 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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 TX Firm BR 1650  
 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

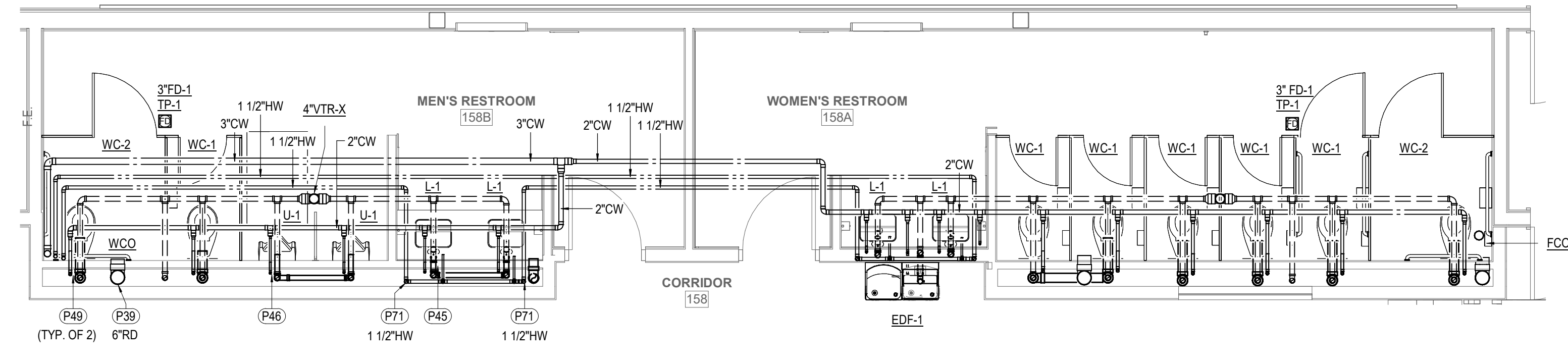
90%CD - IFR  
 BUILDING NUMBER 1

**CRAWLSPACE PLUMBING PLAN**

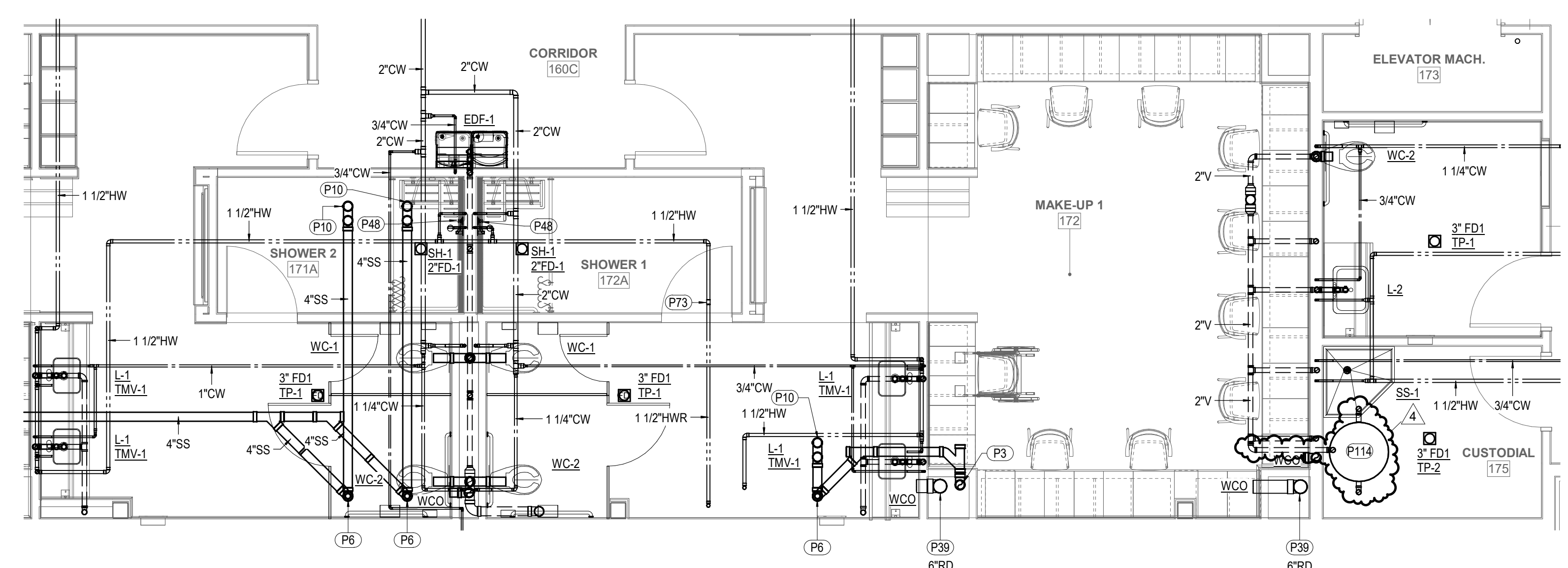
**PU-101-A**



5  
1



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



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

**KEYNOTES**

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

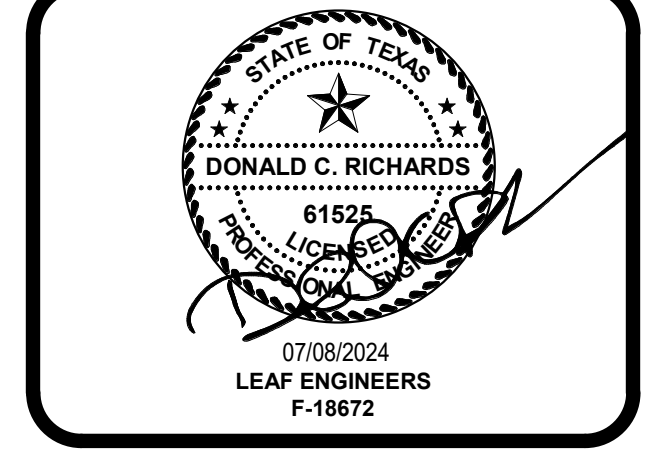
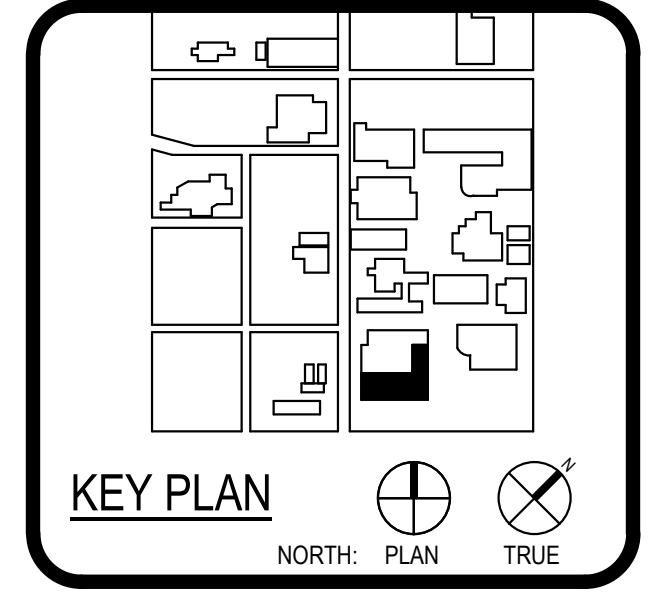
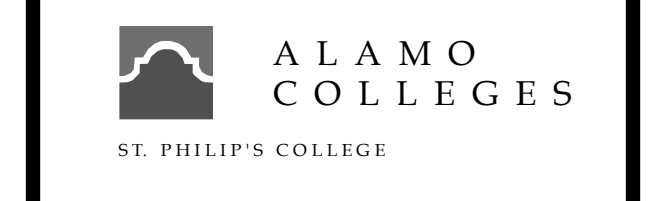


ARCHITECT	PBK Architects, Inc. SAN ANTONIO 601 N. W. Loop 410, Suite 400 San Antonio, TX 78216 210-829-0123 P 210-829-0578 F TX Firm SR 1659
ASSOCIATE ARCHITECT	KEVIN MCGEE 1710-551-1814
DESIGNER	KEVIN MCGEE 1710-551-1814
ENGINEER	LEAF ENGINEERS 1710-551-1814
MECHANICAL ENGINEER	LEAF ENGINEERS 1710-551-1814
ELECTRICAL ENGINEER	LEAF ENGINEERS 1710-551-1814
PLUMBING ENGINEER	LEAF ENGINEERS 1710-551-1814
MECHANICAL PROFESSIONALS	LEAF ENGINEERS 1710-551-1814
ELECTRICAL PROFESSIONALS	LEAF ENGINEERS 1710-551-1814
PLUMBING PROFESSIONALS	LEAF ENGINEERS 1710-551-1814



WFAC Black Box Addition PKG 1

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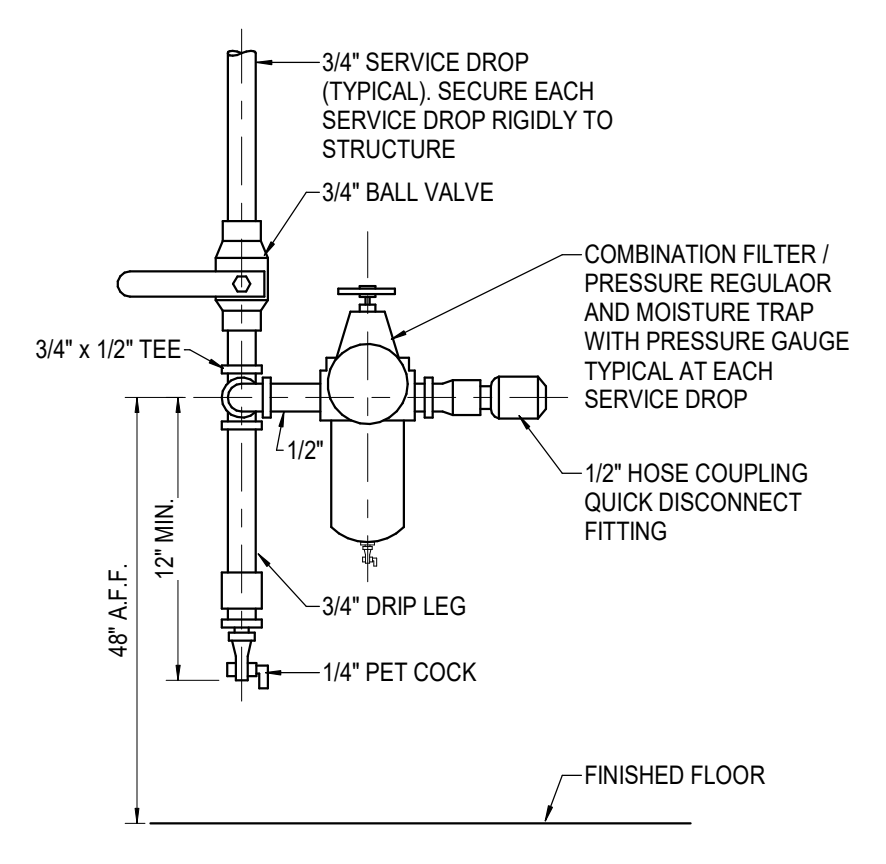
CLIENT	Alamo Colleges	
DATE	07/08/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date
1	CITY COMMENTS	07/08/2024
90%CD - IFR		
BUILDING NUMBER	1	

**PLUMBING ENLARGED PLAN**

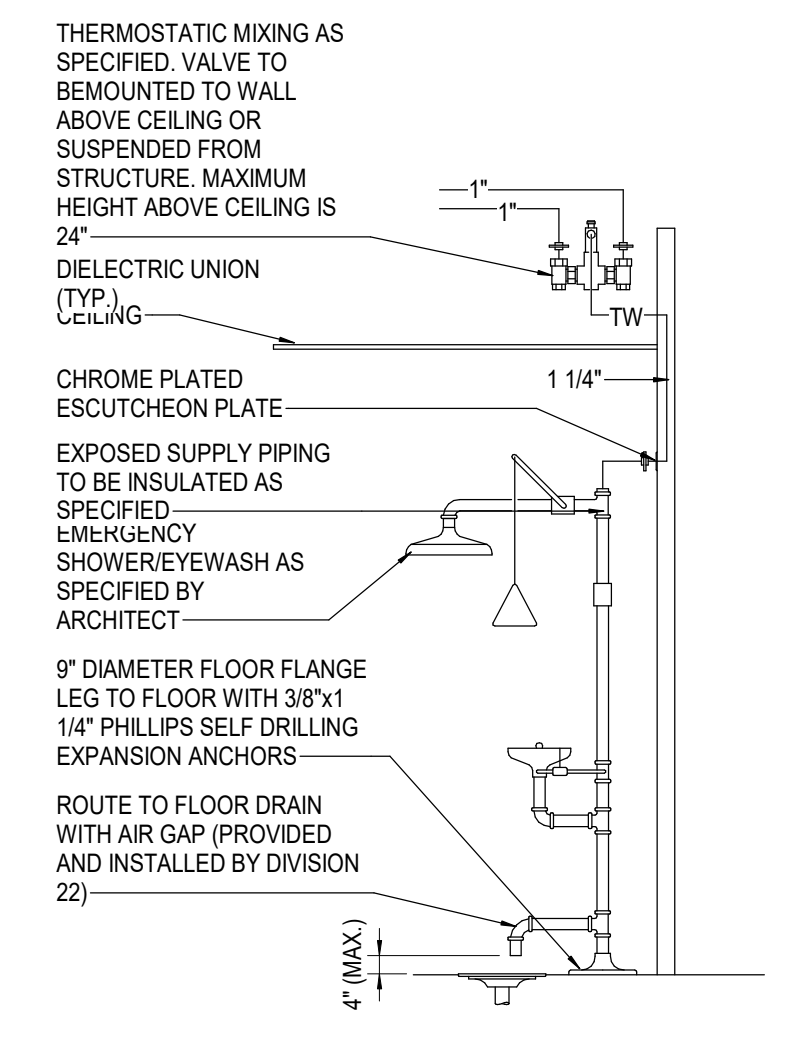
**P-401**



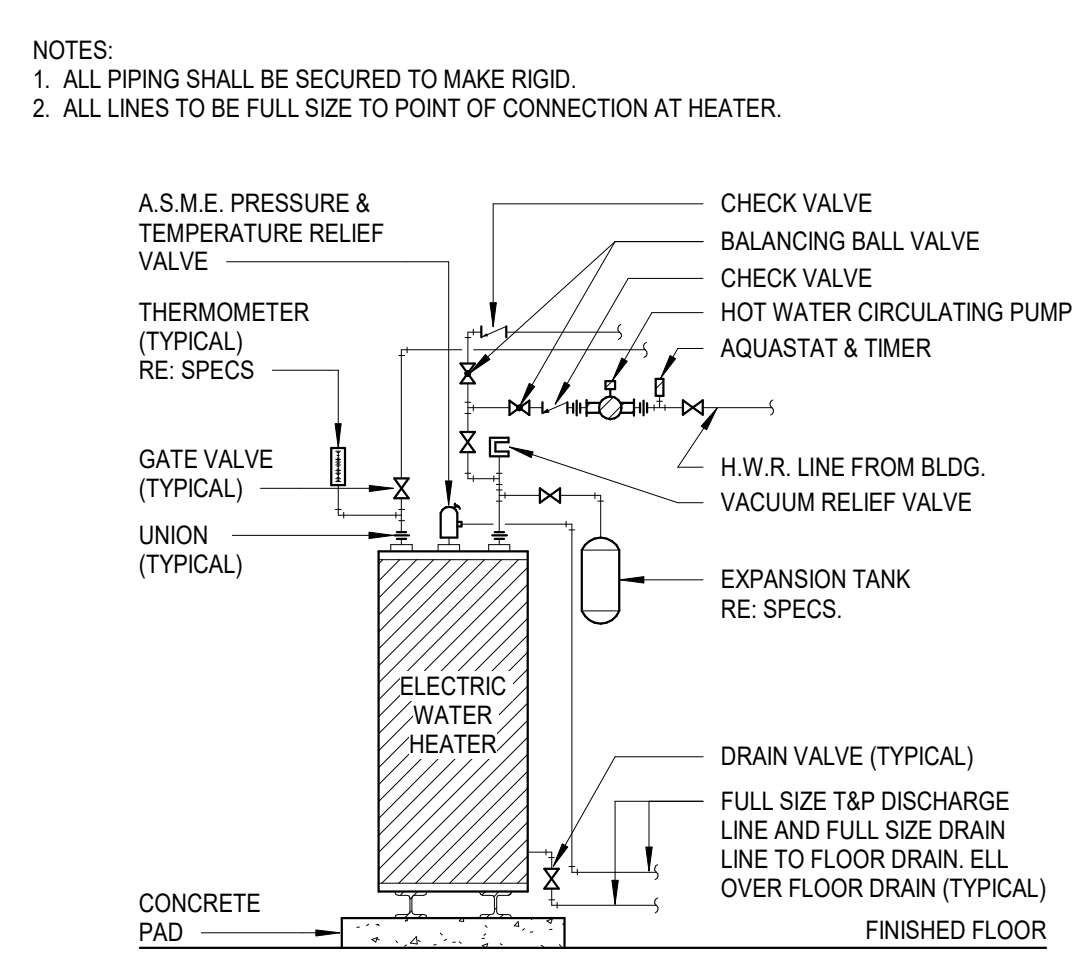
# ISSUE FOR CONSTRUCTION



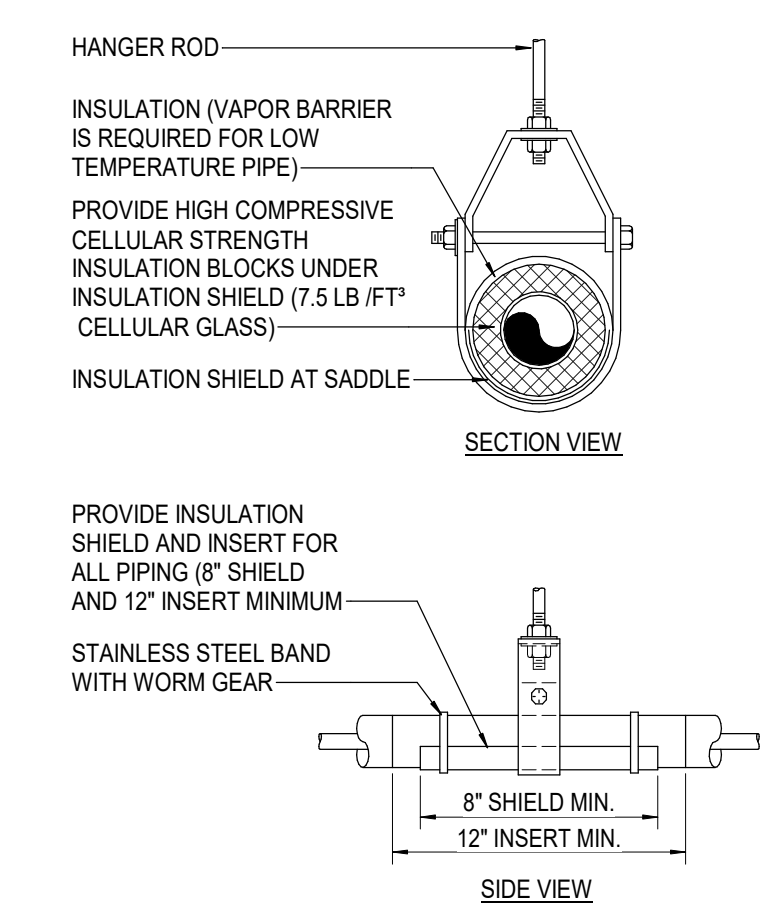
**10 COMPRESSED AIR OUTLET DETAIL**  
SCALE: NOT TO SCALE



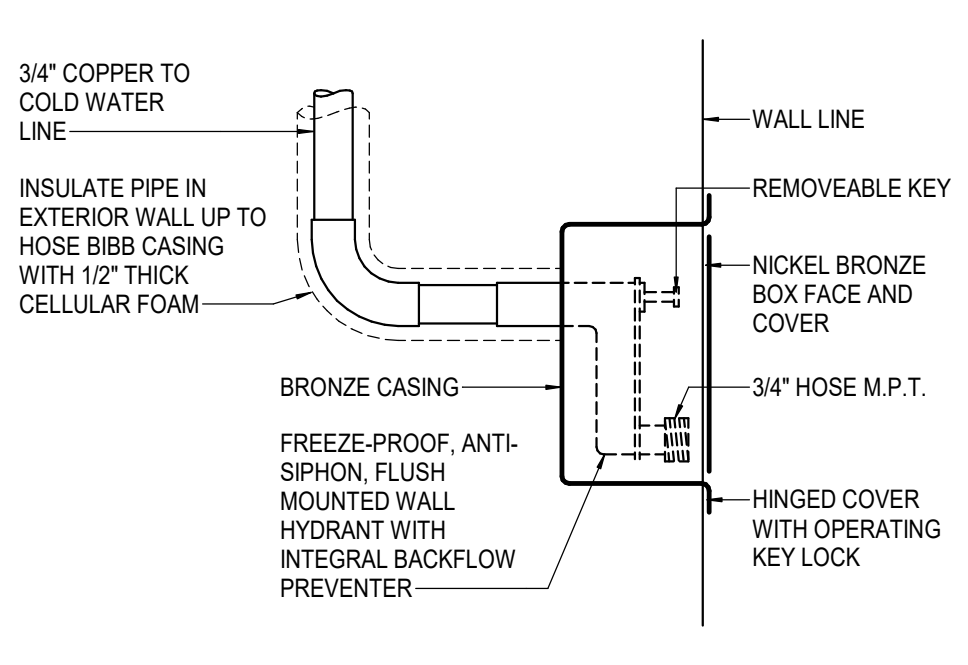
**7 EMERGENCY SHOWER/EYEWASH DETAIL**  
SCALE: NOT TO SCALE



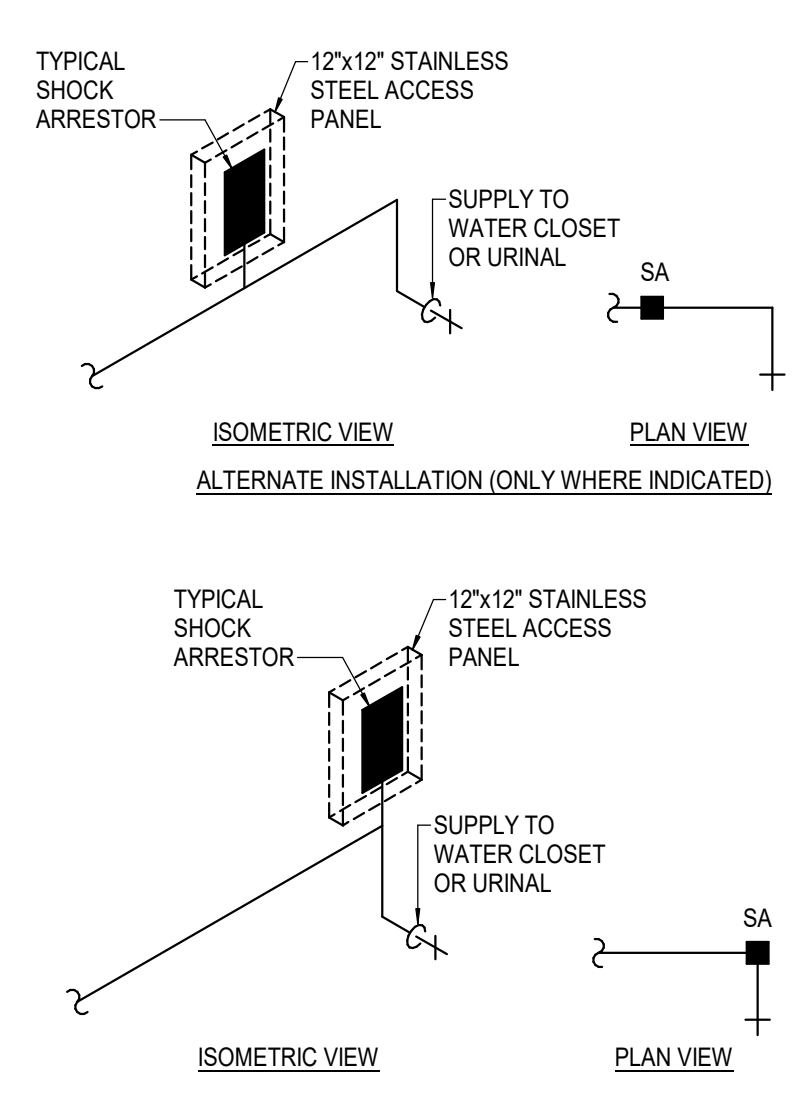
**4 ELECTRIC WATER HEATER PIPING**  
SCALE: N.T.S.



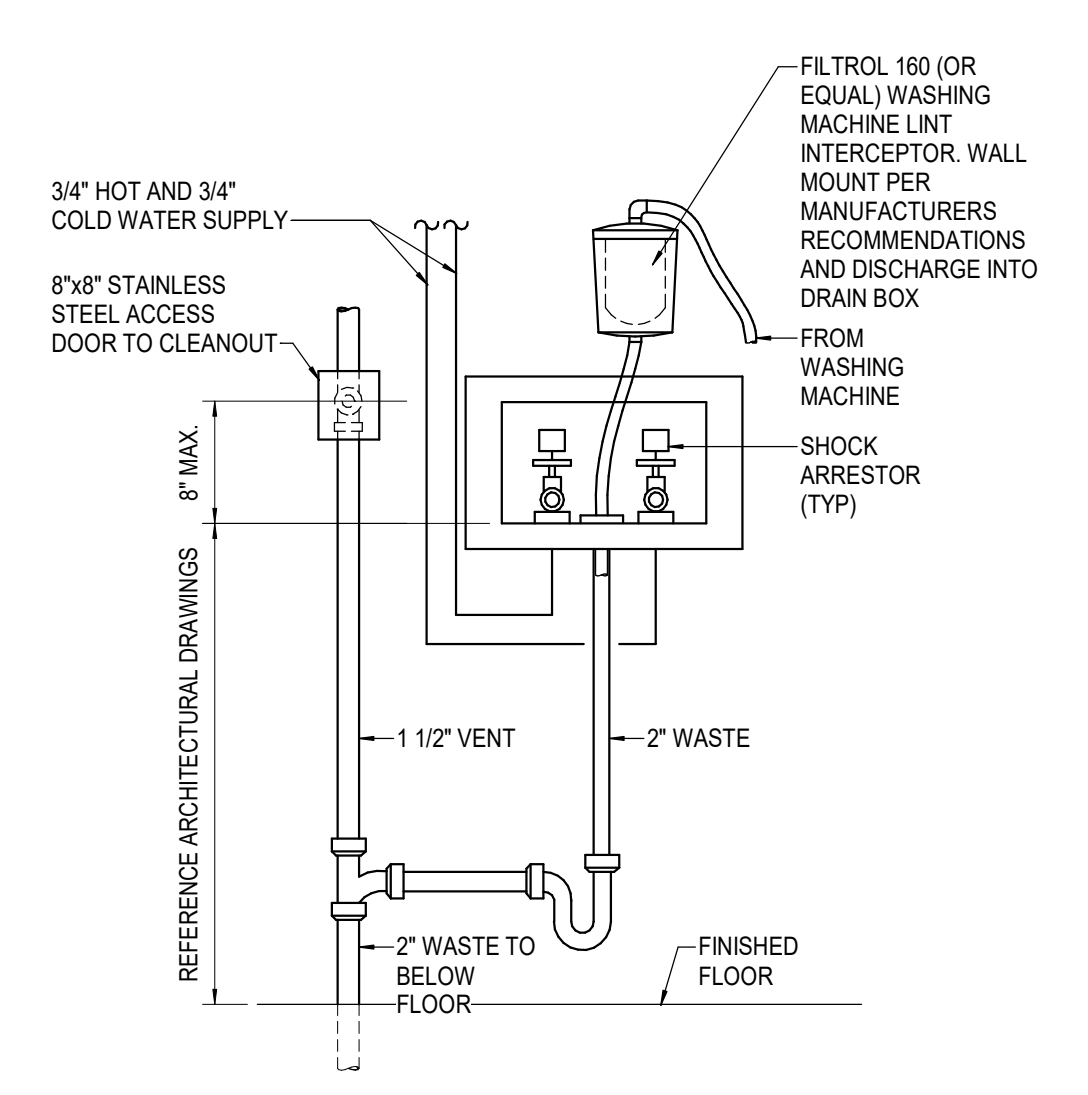
**1 ADJUSTABLE CLEVIS PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE



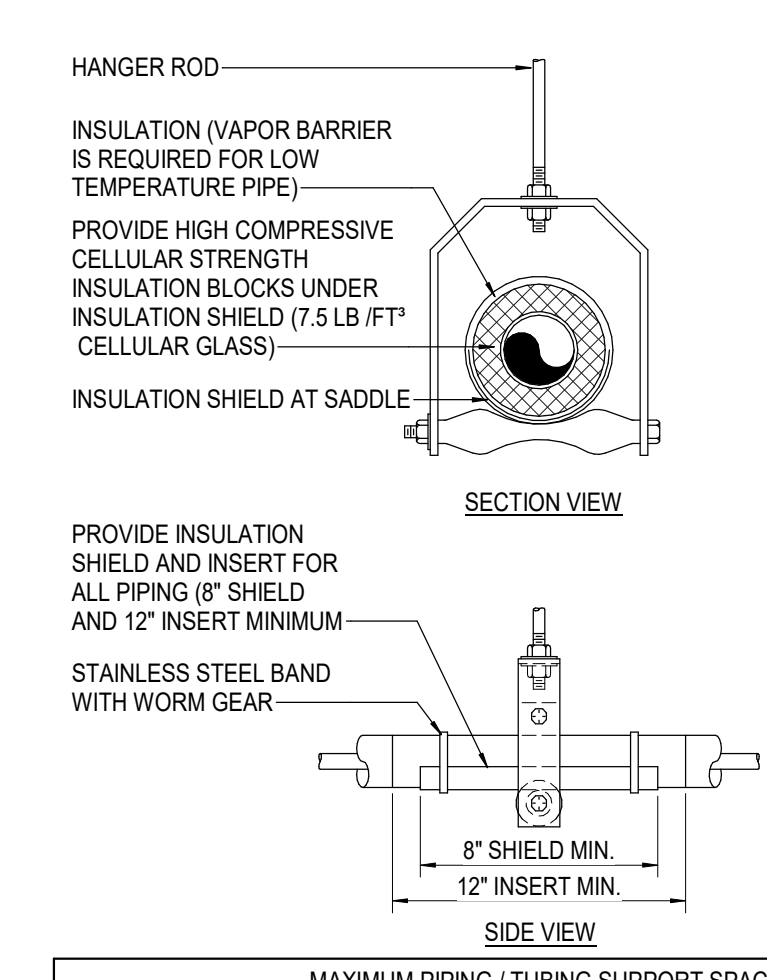
**11 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



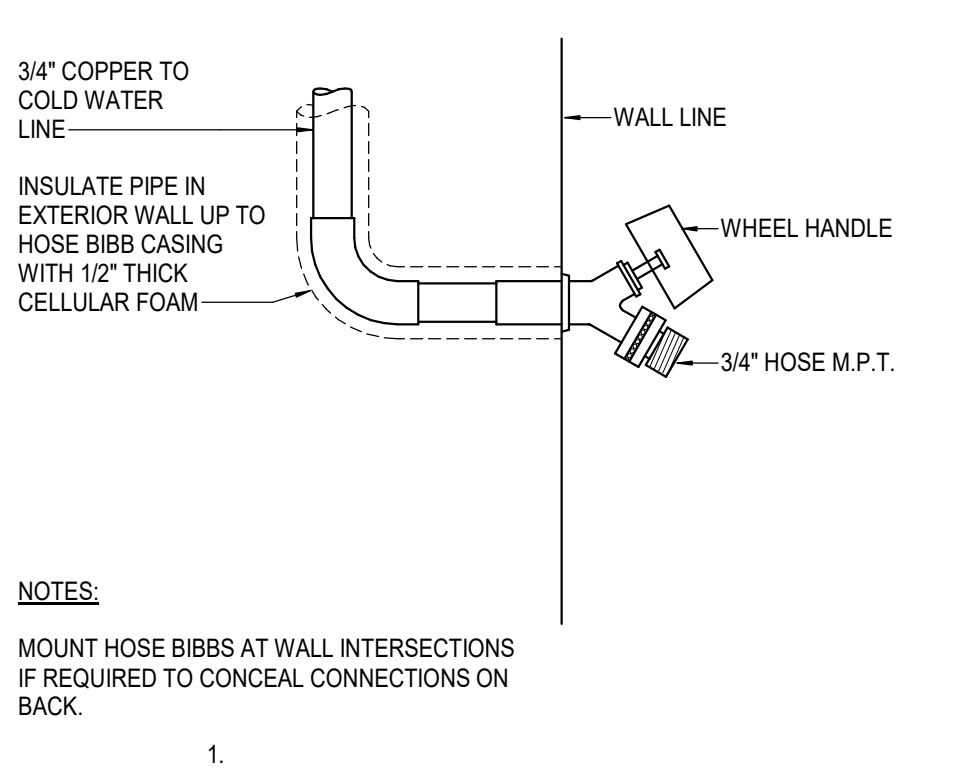
**8 SHOCK ARRESTOR DETAIL**  
SCALE: NOT TO SCALE



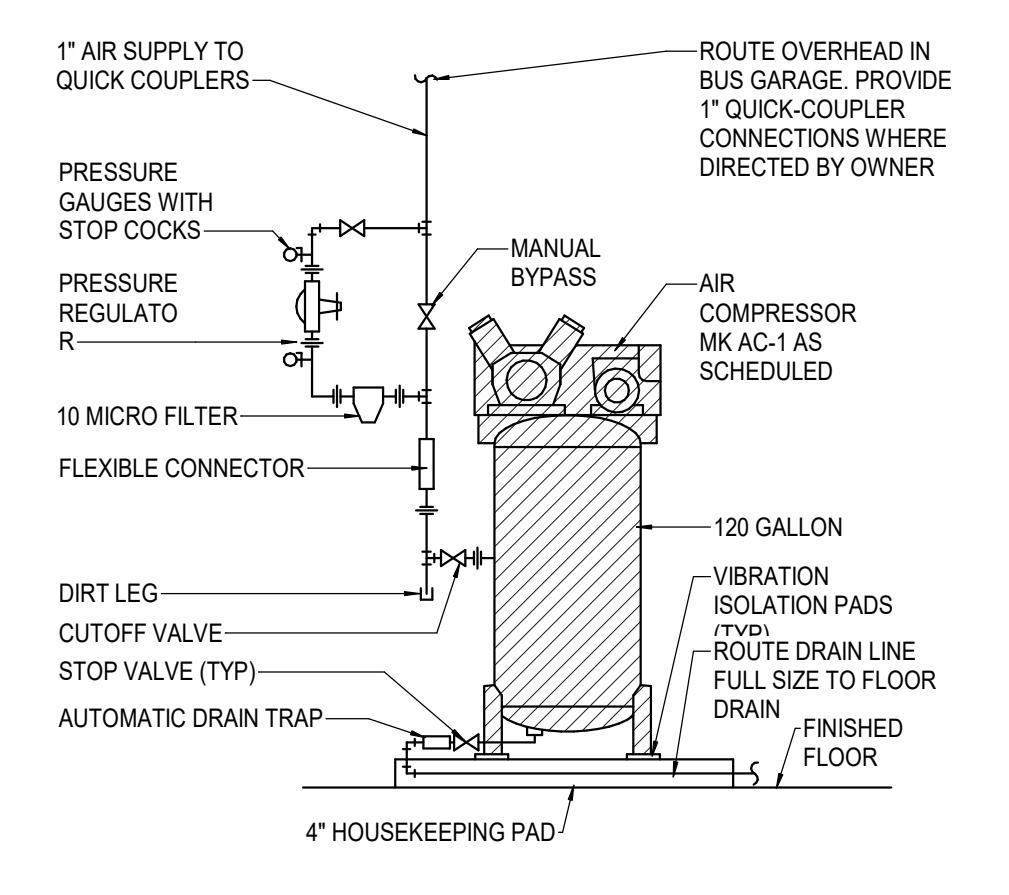
**5 WASHER / DRAIN BOX CONNECTION DETAIL**  
SCALE: NOT TO SCALE



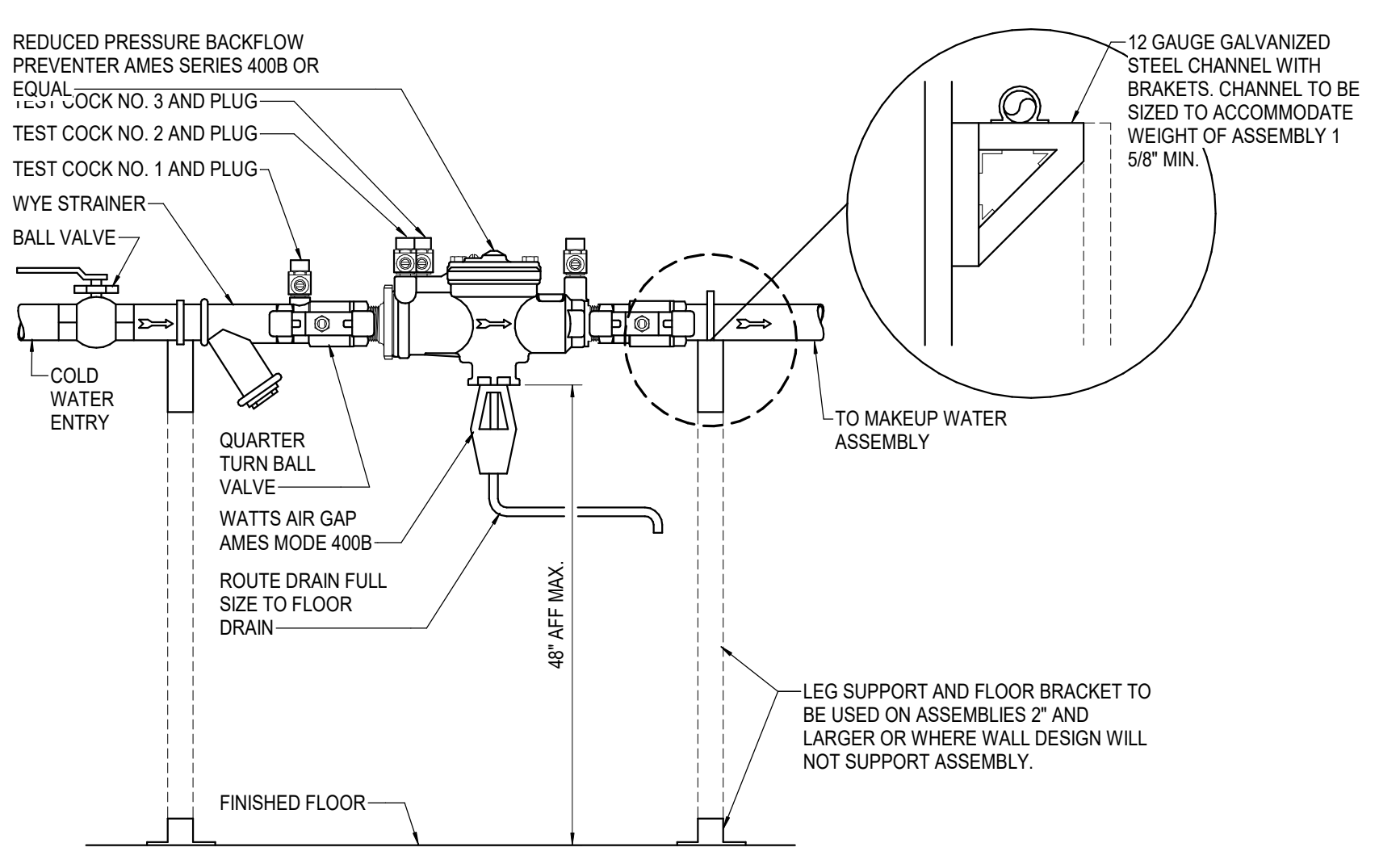
**2 ADJUSTABLE ROLLER PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE



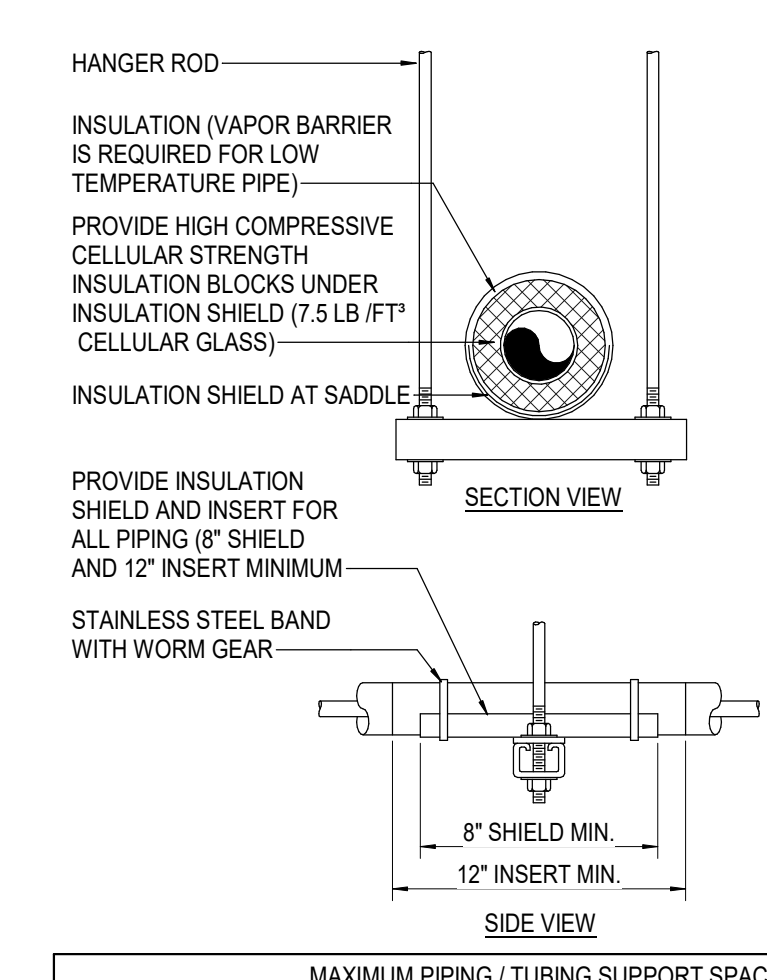
**12 WALL HYDRANT DETAIL**  
SCALE: NOT TO SCALE



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



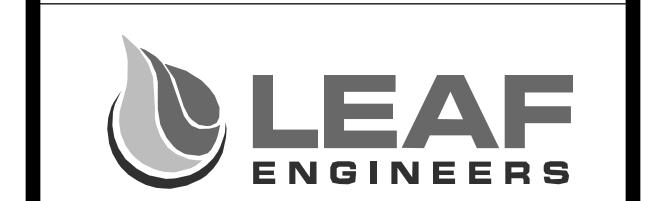
**6 BACKFLOW PREVENTER MOUNTING DETAIL**  
SCALE: NOT TO SCALE



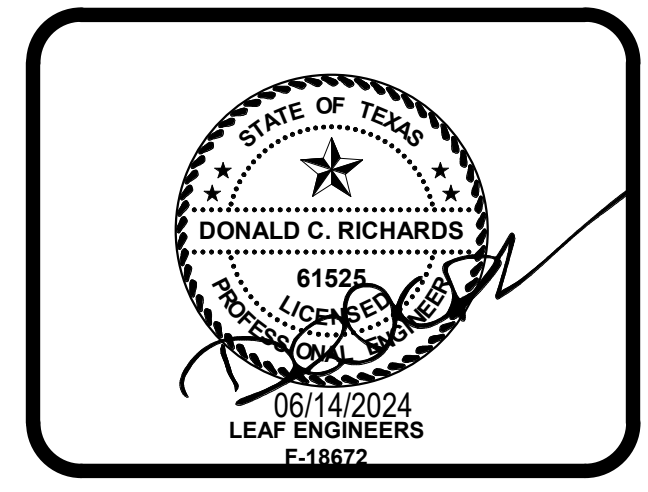
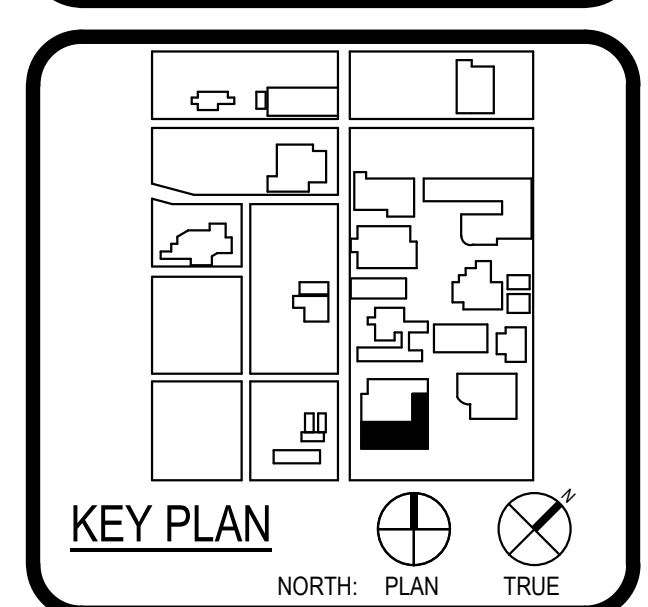
**3 TRAPEZE PIPE HANGER DETAIL**  
SCALE: NOT TO SCALE



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	
ASSOCIATE ARCHITECT	MAX ARCHITECTS
200 1101 BRUNNEN LANDSCAPE DESIGN 113140-092 113140-092 LUNY & FRANK ENGINEERING 113140-092 113140-092 113140-092 113140-092 113140-092 113140-092 113140-092	
PROVIDER	MEAN PROFILES
113140-092 113140-092 113140-092	



WFAC Black Box Addition PKG 1

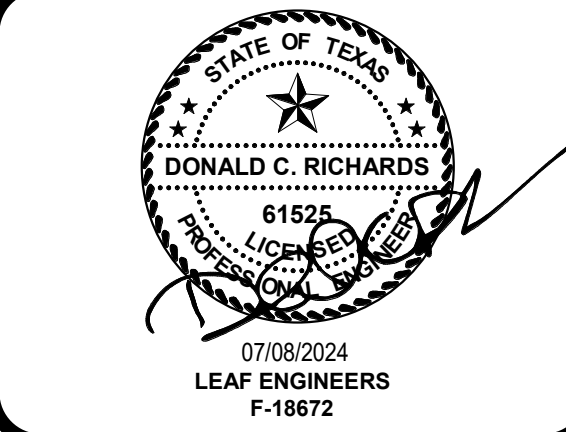
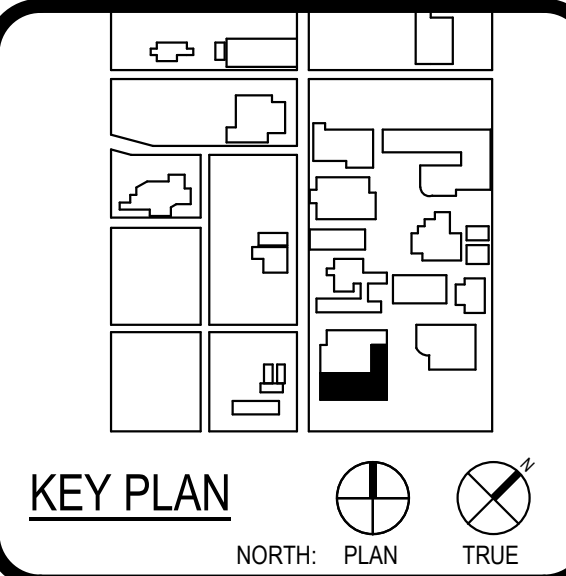


CLIENT	Alamo Colleges	
DATE	06/14/2024	
PROJECT NUMBER	230462	
DRAWING HISTORY		
No.	Description	Date

ISSUE FOR CONSTRUCTION  
BUILDING NUMBER 1

PLUMBING DETAILS

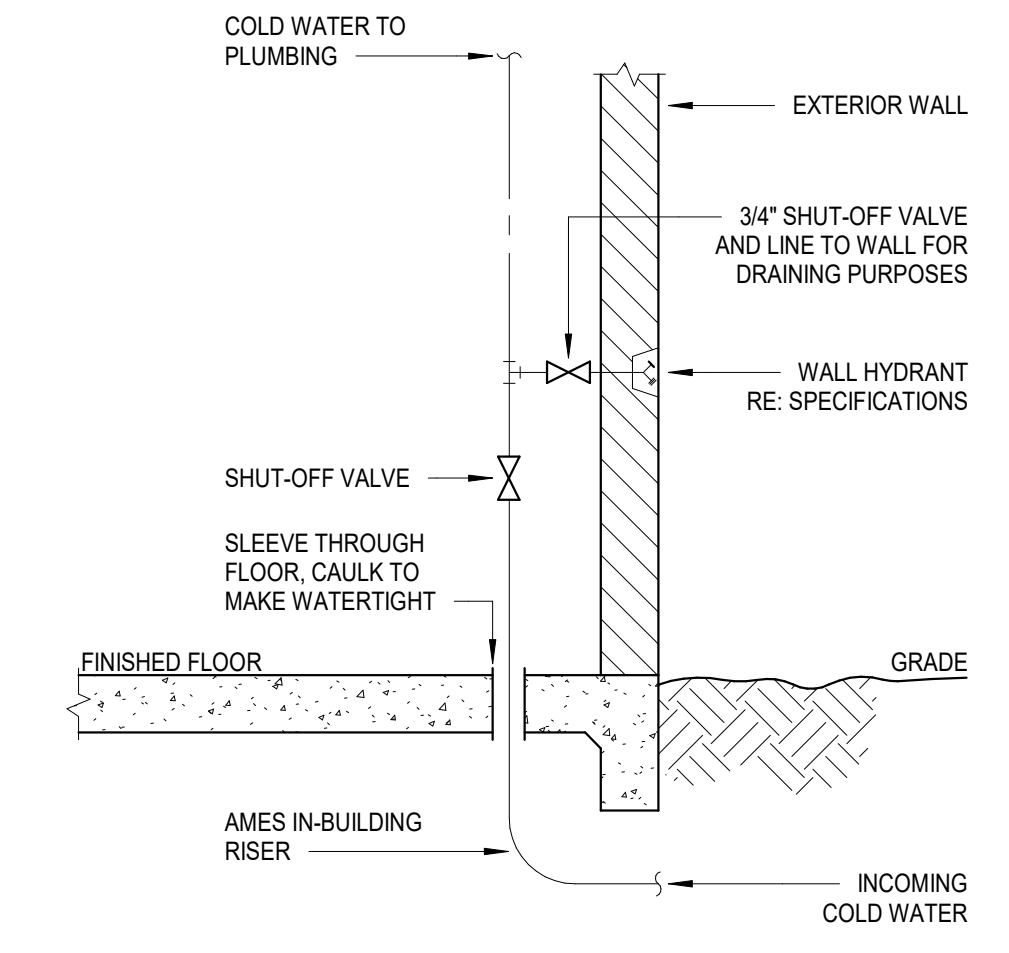




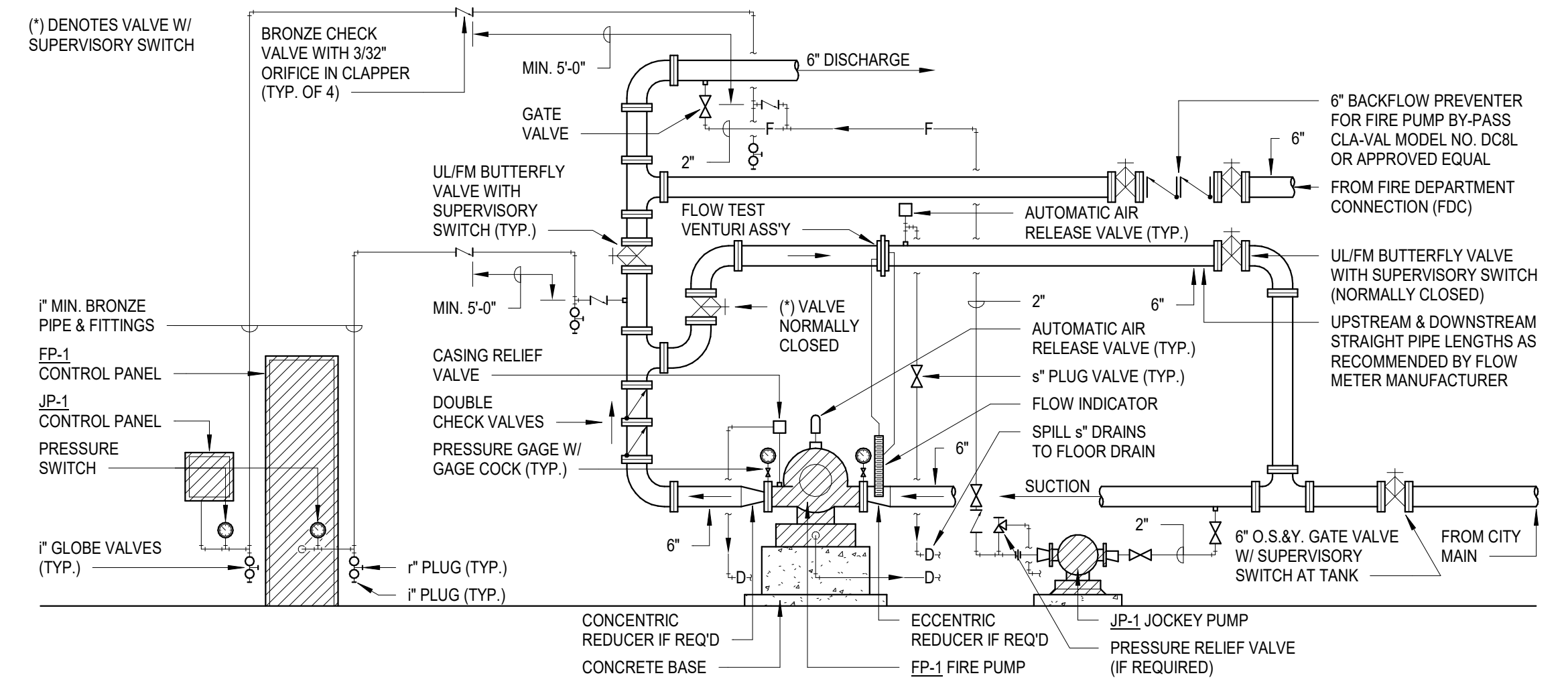
CLIENT Alamo Colleges  
 DATE 07/08/2024 PROJECT NUMBER 230462

DRAWING HISTORY		
No.	Description	Date
1	CITY COMMENTS	06/05/2024
4	CITY COMMENTS	07/08/2024

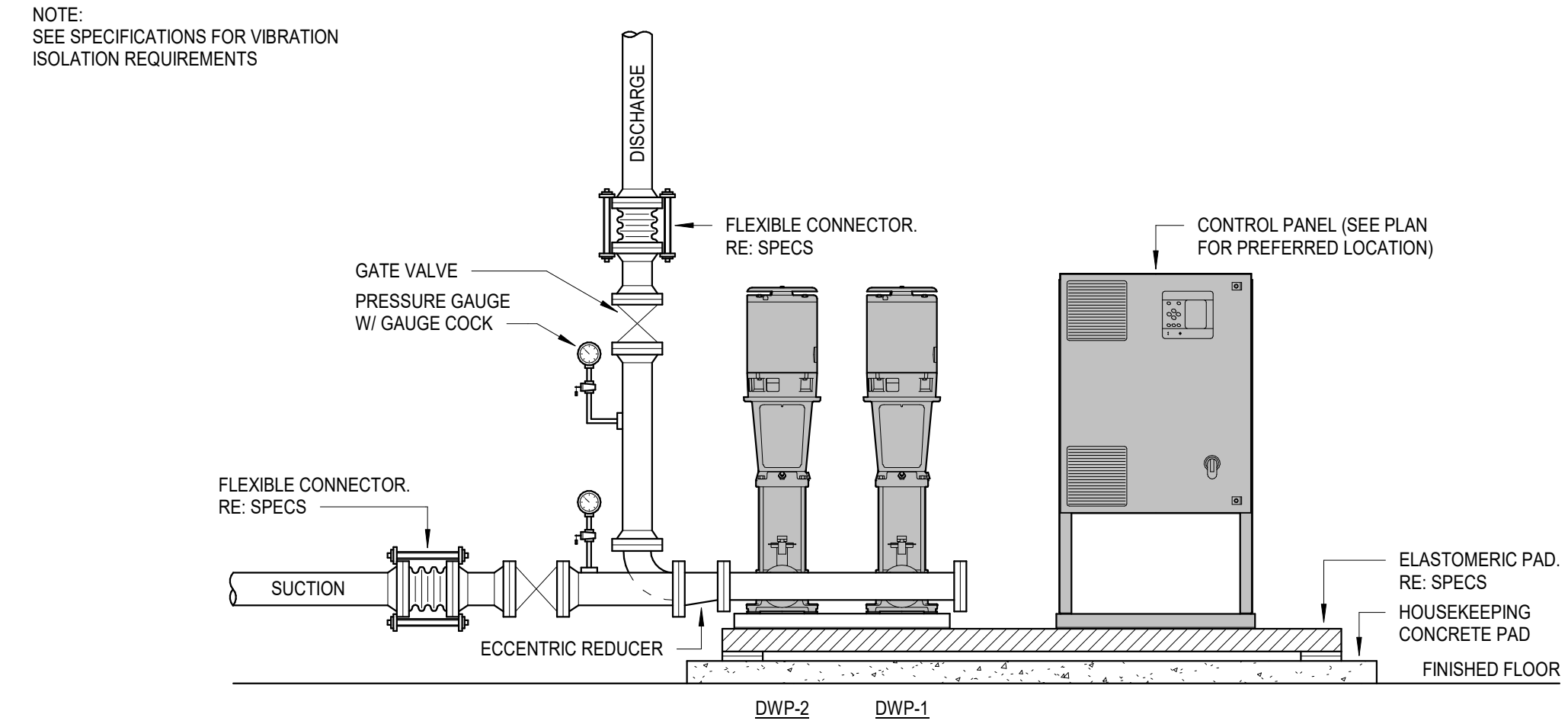
90%CD - IFR  
 BUILDING NUMBER 1



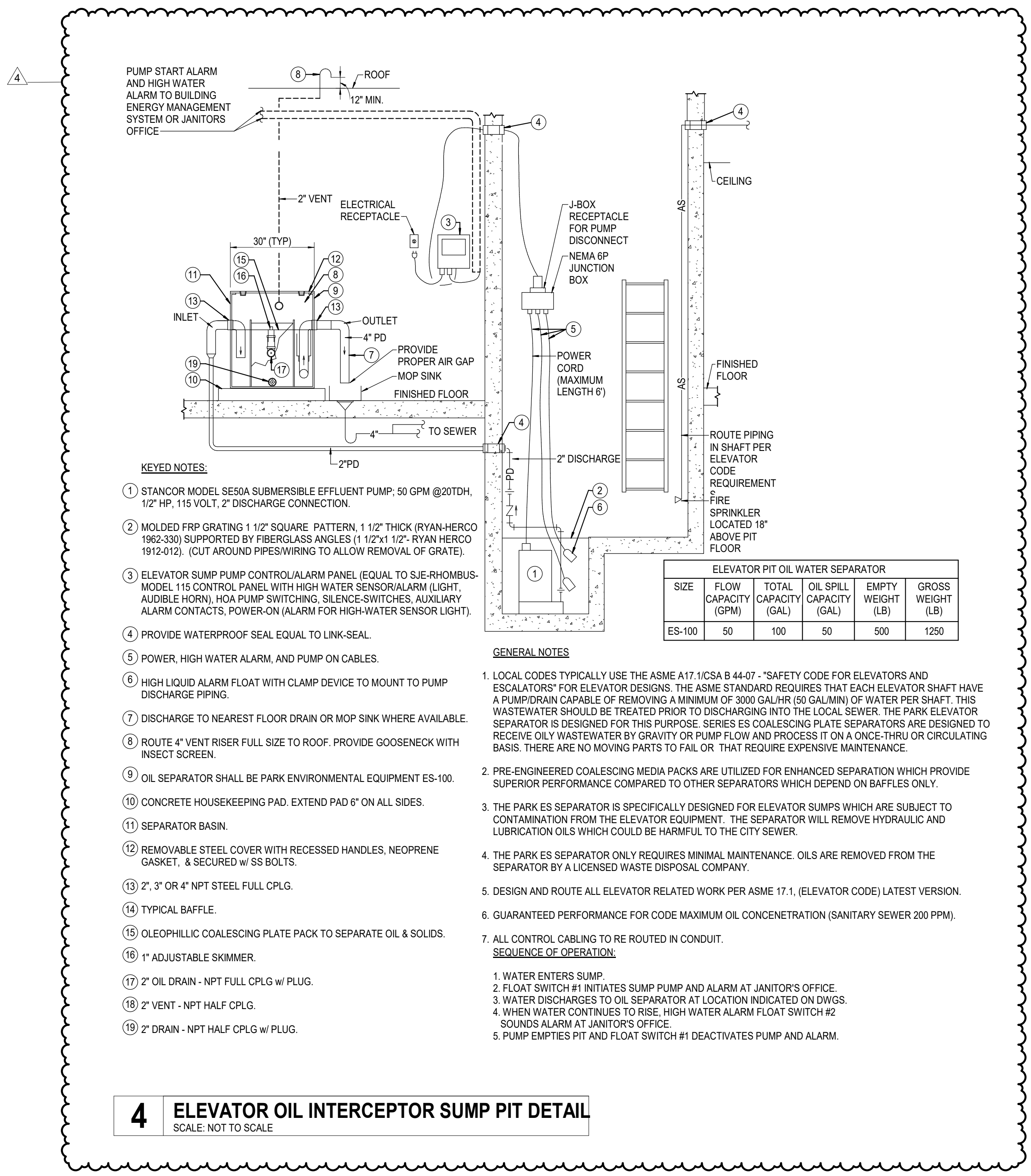
**1 DOMESTIC COLD WATER ENTRY**  
 SCALE: N.T.S.



**2 FIRE PUMP**  
 SCALE: N.T.S.



**3 DUPLEX PACKAGE PUMPING SYSTEM**  
 SCALE: N.T.S.



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

PLUMBING DETAILS  
 P-602  
 FOR BLUEBEAM LABELING OCR:  
 File Path: Autocad Dcs://Name CS\_230462\_A1 Philip College WBB Add#P23 WFAC - Blackbox Addition - A03.rvt  
 CHECKED BY: [Blank]  
 CHECKER: [Blank]  
 DRAWN BY: [Blank]  
 AUTHOR: [Blank]  
 Plot Stamp:  
 7/8/2024 7:29:34 AM



FIRE ALARM LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like FOOT ADDED TO ANY SYMBOL, MANUAL FIRE ALARM PULL STATION, FIRE ALARM SPEAKER OR HORN, VISUAL ALARM STROBE, SMOKE DETECTOR, HEAT DETECTOR, CARBON MONOXIDE DETECTOR, BEAM SMOKE DETECTOR, FIRE FIGHTER'S TELEPHONE JACK, AUXILIARY CONTROL RELAY, FIRE SMOKE DUCT DAMPER, TERMINAL CABINET, FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM TRANSDUCER, SPRINKLER SYSTEM GATE VALVE MONITOR SWITCH, SPRINKLER SYSTEM WATER FLOW SWITCH, TAMPER SWITCH, SPRINKLER SYSTEM ALARM CHECK VALVE, SPRINKLER SYSTEM ELECTRICAL ALARM BELL, SPRINKLER SYSTEM PRE-ACTION CONTROL PANEL, DOOR HOLDER, MONITOR MODULE.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS AND BACK BOX REQUIREMENTS. 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS. 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS. 4. CONTRACTOR SHALL PROVIDE BEAM SMOKE DETECTORS IN ALL HIGH CEILING AREAS AS REQUIRED BY CODE.

SEQUENCE OF OPERATIONS

- 1. WHEN A FIRE ALARM CONDITION IS DETECTED BY ANY OF THE SYSTEM ALARM INITIATING DEVICES THE CONTROL PANEL MUST RESPOND WITHIN 3 SECONDS, THE FOLLOWING FUNCTIONS OCCUR: A. THE SYSTEM COMMON ALARM LED ON THE CPU MODULE SHALL FLASH... B. AN BACK-LIT LCD DISPLAY SHALL INDICATE ALL APPLICABLE INFORMATION ASSOCIATED WITH THE ALARM CONDITION INCLUDING: ZONE, DEVICE TYPE, DIVIDE LOCATION AND TIME OF ALARM... C. ANY REMOTE OR LOCAL ANNUNCIATOR LED'S ASSOCIATED WITH THE ALARM ZONE SHALL BE ILLUMINATED AS HEREIN SPECIFIED... D. A THREE CHANNEL DIGITAL ALARM COMMUNICATOR SHALL BE INTEGRALLY PROVIDED AND TRANSMIT TROUBLE AND ALARM SIGNALS TO AN APPROVED REMOTE STATION... E. WHEN THE ALARMED DEVICE IS RESTORED TO NORMAL... F. AN ALARM SHALL BE SILENCED BY A CODE OR FIREFIGHTER KEY... G. ALL AUTOMATIC EVENTS PROGRAMMED TO THE ALARM POINT SHALL BE EXECUTED... H. ACTIVATE ALL AUDIBLE/VISUAL ALARM DEVICES. I. DE-ACTIVATE HVAC SYSTEMS OVER 2000 CFM IN AREA OF ALARM. J. DISPLAY SYSTEM STATUS CHANGES ON THE REMOTE ANNUNCIATOR(S). K. RELEASE ALL SMOKE DOOR, FIRE DOORS, FIRE COILING DOORS, FIRE SMOKE DAMPERS AND FIRE SHUTTERS.

GENERAL FIRE ALARM NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE FIRE ALARM SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE... 2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 3. FIRE ALARM VISUAL DEVICES SHALL COMPLY WITH NFPA 72, CHAPTER 4... 4. VISUAL APPLIANCES CANDELA SHALL BE THE HIGHEST VOLUME ALLOWED BY NFPA 72 IN ORDER TO INSTALL THE FEWEST NUMBER OF STROBES... 5. AT A MINIMUM, VISUAL SIGNALS APPLIANCES SHALL BE PROVIDED IN BUILDINGS AND FACILITIES IN EACH OF THE FOLLOWING AREAS: HALLWAYS, LOBBIES, AND ANY OTHER GENERAL USAGE AREAS... 6. ALL EQUIPMENT AND WORK PERFORMED SHALL COMPLY WITH ALL OF THE CURRENT AND APPLICABLE CODES, RULES, ORDINANCES, REGULATIONS, AND STANDARDS AS INTERPRETED AND ENFORCED BY THE AUTHORITIES HAVING JURISDICTION... 7. PROVIDE POWER FOR REMOTE BATTERY SUPPLIES AND BOOSTER PANELS AS NEEDED... 8. ALL FIRE ALARM WIRING SHALL ROUTE DOWN CORRIDORS AND WALKWAYS PARALLEL AND PERPENDICULAR TO BUILDING WALLS... 9. ALL FIRE ALARM CABLEING SHALL BE SUPPORTED IN DEDICATED CABLE SUPPORTS... 10. CONTRACTOR TO INSTALL RELAYS IN ALL KITCHEN HOOD ANSUL SYSTEMS TO NOTIFY MAIN FIRE ALARM PANEL UPON ACTIVATION... 11. ALL NOTIFICATION APPLIANCE CIRCUIT CABLES AND ALL OTHER FIRE ALARM SYSTEM CABLE SHALL HAVE A RED OUTER JACKET... 12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY CONDUITS AND/OR BOXES REQUIRED FOR THE INSTALLATION FIRE ALARM DEVICES... 13. PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL STUB-OUTS AND SLEEVES TO PREVENT CABLE DAMAGE... 14. PROVIDE AND INSTALL STOPPER IF PROTECTIVE COVERS WITH A LOCAL ALARM FOR ALL MANUAL PULL STATIONS ON THE ENTIRE PROJECT... 15. CONTRACTOR TO PROVIDE CEILING MOUNTED LED NOTIFICATION DEVICES WITH TEST BUTTON FOR ALL DUCT DETECTORS THAT ARE MOUNTED ABOVE CEILING AND/OR IN LOCATIONS NOT VISIBLE FROM THE FLOOR... 16. ALL FIRE ALARM DEVICES ARE NEW UNLESS NOTED OTHERWISE... 17. CONTRACTOR SHALL PROVIDE AND INSTALL A RELAY FOR EACH FIRE/SMOKE DAMPER ON PROJECT... 18. CONTRACTOR SHALL PROVIDE DUCT DETECTORS ON ALL AIR HANDLING UNITS RATED ABOVE 2,000 CFM AND PER NFPA... 19. CONTRACTOR SHALL PROVIDE ALL CABLING AND DEVICES REQUIRED TO PROVIDE THE SHUT-DOWN OF ALL HVAC AIR HANDLING UNITS UPON THE FIRE ALARM SYSTEM ENTERING ALARM STATE... 20. CONTRACTOR SHALL PROVIDE ALL REQUISITE FIRE ALARM MODULES AND CABLING AS REQUIRED TO PROVIDE CONTROL OF THEATER AUDITORIUM HOUSE LIGHTS... 21. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE... 22. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED... 23. CONTRACTOR SHALL PROVIDE SMOKE DETECTION DEVICES ABOVE ALL PARTIAL CEILING IN ALL CORRIDORS AND OTHER SPACES PER NFPA 72.

AUDIO & VIDEO GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT... 2. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 3. ALL EXPOSED WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILING SHALL BE Routed IN CONDUIT... 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED... 5. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING... 6. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 7. ALL CABLE SHALL BE Routed DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS... 8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT... 9. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED... 10. EXTERIOR SPEAKERS SHALL BE ON A SEPARATE LOW VOLTAGE CIRCUIT FROM INTERIOR SPEAKERS... 11. AV CONTRACTOR SHALL COORDINATE ALL MOUNTING LOCATIONS OF ALL AV DEVICES TO PROVIDE EVEN AND BALANCED AUDIO COVERAGE... 12. ALL LAY-IN CEILING MOUNTED SPEAKERS AND DEVICES SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM... 13. AV CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL CONDUIT AND BACK BOX REQUIREMENTS... 14. AV CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES WITH REGARD TO BLOCKING AND PROPER SUPPORT OF ALL AV DEVICES... 15. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE.

SECURITY SYSTEMS LEGEND

SECURITY SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INTERIOR VIDEO SURVEILLANCE CAMERA, EXTERIOR WALL MOUNTED CAMERA VIDEO SURVEILLANCE CAMERA, 360 DEGREE CEILING MOUNTED MOTION DETECTOR, INTRUSION DETECTION SYSTEM ARM/DISARM KEYPAD, PANIC BUTTON, INTRUSION DETECTION CONTROL PANELS, ACCESS CONTROL PROXIMITY CARD READER, DOOR RELEASE BUTTON, DOOR CONTACT, CEILING MOUNTED GLASS BREAK DETECTOR, WALL MOUNTED GLASS BREAK DETECTOR.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS. 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS. 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.

BDA/DAS SYSTEMS LEGEND

BDA/DAS SYSTEMS LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like BI-DIRECTIONAL AMPLIFIER (BDA) SIGNAL BOOSTER, BDA ANNUNCIATOR PANEL.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON THE DRAWINGS. REFER TO THE SPECIFICATIONS AND THE TECHNOLOGY SYSTEMS GENERAL NOTES FOR INSTALLATION REQUIREMENTS.

TECHNOLOGY PLAN GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE... 2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT... 3. THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS, BACK BOXES, SLEEVES AND PULL STRING REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS... 4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER... 5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSIE/ETIA, BICSI, AND THE NEC... 6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES... 7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS... 8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12" INCHES OF SEPARATION FROM ALL POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING... 9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE... 10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS... 11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES... 12. ALL EXPOSED CABLING Routed IN PLENUM SHALL BE PLENUM-RATED... 13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILING UNLESS NOTED OTHERWISE... 14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS... 15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS... 16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES... 17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT... 18. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES Routed TO THE FIRE ALARM CONTROL PANEL... 19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILING SHALL BE INSTALLED IN CONDUIT... 20. 2" ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 21. CONTRACTOR SHALL PROVIDE TWO (2) DATA CABLES TO THE ACCESS CONTROL HEAD-END... 22. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BUS STATION... 23. CONTRACTOR TO PROVIDE TWO (2) DATA CABLES TO THE AREA OF REFUGE SYSTEM... 24. CONTRACTOR SHALL PROVIDE (1) DATA CABLE FOR EACH IP CAMERA AND IP SPEAKER Routed TO NEAREST IDF... 25. CONTRACTOR SHALL PROVIDE (1) DATA CABLES Routed TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE... 26. CONTRACTOR SHALL PROVIDE (1) DATA CABLE TO THE INTRUSION DETECTION SYSTEM HEAD-END

SECURITY GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE ACCESS CONTROL, BURGLAR ALARM, AND SECURITY CAMERA SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE... 2. A DOOR CONTACT POSITION SENSOR IS REQUIRED AT ALL ROOF HATCHES (TYPICAL)... 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONDUIT, SLEEVES, AND PROTECTIVE BUSHINGS REQUIRED TO INSTALL COMPLETE SECURITY SYSTEM... 4. SECURITY CONTRACTOR IS RESPONSIBLE FOR CONNECTING SYSTEM TO DISTRICT'S REMOTE MONITORING SERVICE... 5. ALL EXPOSED SECURITY SYSTEMS WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILING SHALL BE Routed IN CONDUIT... 6. PROVIDE PROTECTIVE COVER FOR ALL DEVICES IN GYMNASIUM AREAS... 7. ENSURE ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ELEMENTS FROM ENTERING BUILDING... 8. NO CONDUITS OR SEAL-TITE SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING... 9. ALL LOW VOLTAGE CABLING SHALL BE INDIVIDUALLY Routed TO HEAD END POINT AND SUPPORTED IN PROPER CABLE SUPPORT SYSTEM FOR ENTIRE LENGTH OF RUN... 10. ALL EXTERIOR CAMERAS SHALL BE MOUNTED 12' ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED... 11. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE... 12. CONTRACTOR SHALL CONNECT FREEZER/COOLER SENSORS TO INTRUSION DETECTION HEAD-END FOR EVENT DETECTION... 13. CONTRACTOR SHALL PROVIDE ALL VIDEO SURVEILLANCE CAMERA MOUNTS AND MOUNTING HARDWARE... 14. CONTRACTOR SHALL INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM... 15. CONTRACTOR SHALL INTEGRATE THE ACCESS CONTROL, INTRUSION DETECTION AND VIDEO SURVEILLANCE SYSTEMS... 16. PROVIDE MOUNTING SUPPORT FROM GRID OR BUILDING STRUCTURE FOR ALL DEVICES INSTALLED IN LAY-IN CEILING TILE... 17. ALL 120V POWER FOR THE SYSTEMS SHALL BE INSTALLED WITHIN THE ENCLOSURE OR INSTALLED IN CONDUIT CONNECTED TO THE ENCLOSURE SO THAT NO CABLING IS EXPOSED.

TECHNOLOGY LEGEND

TECHNOLOGY LEGEND table with columns for SYMBOL and DESCRIPTION. Includes items like INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET, INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET, INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET, INDICATES THE LOCATION OF A TEACHER'S PRESENTATION STATION, INDICATES THE LOCATION OF ASSISTED LISTENING ANTENNA, INDICATES WIRELESS ACCESS POINT CONNECTION, INDICATES THE LOCATION OF A VIDEOS CLOCK, INDICATES THE LOCATION OF A VIDEO PROJECTOR, INDICATES THE LOCATION OF A SCOREBOARD CONTROL INTERFACE PLATE, INDICATES THE LOCATION OF A SCOREBOARD, INDICATES THE LOCATION OF AN IP SECURITY CAMERA, INDICATES INTERCOM SPEAKER, INDICATES WALL MOUNTED LOCK, INDICATES THE APPROXIMATE LOCATION OF A CEILING ENCLOSURE, INDICATES WALL MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED MICROPHONE, INDICATES CEILING MOUNTED LOCAL SOUND SPEAKER, INDICATES CEILING MOUNTED LOCAL SOUND SUBWOOFER SPEAKER.

- NOTE: 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS. 2. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS. 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS. 4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO PREVENT CABLE DAMAGE.

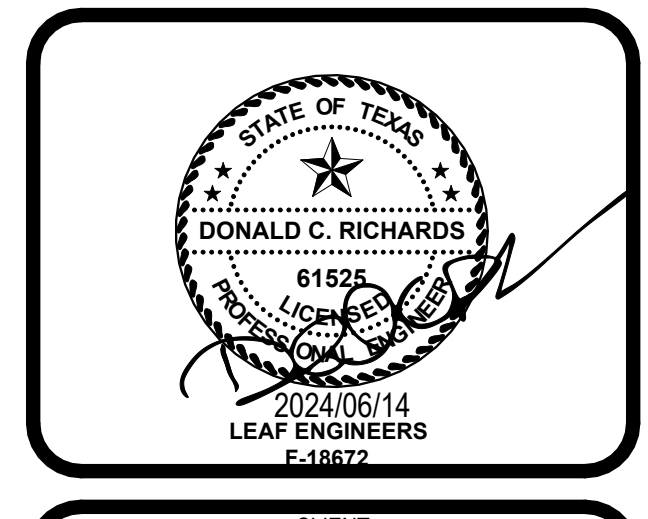
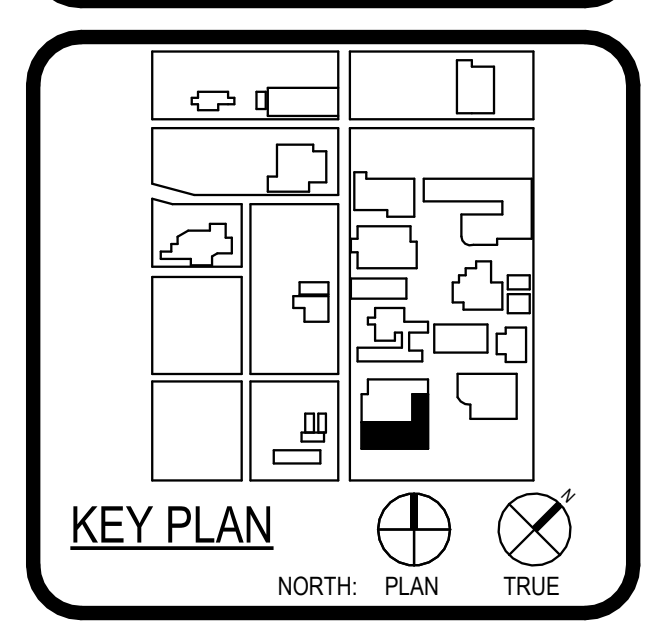
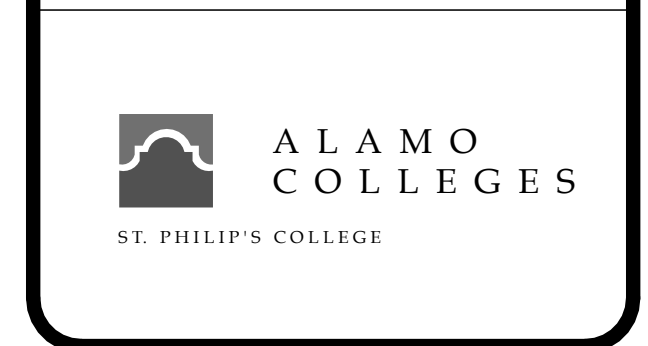


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WFAC Black Box Addition PKG 1 ISSUE FOR CONSTRUCTION 1801 Marlin Luther King Dr., San Antonio, TX 78203



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

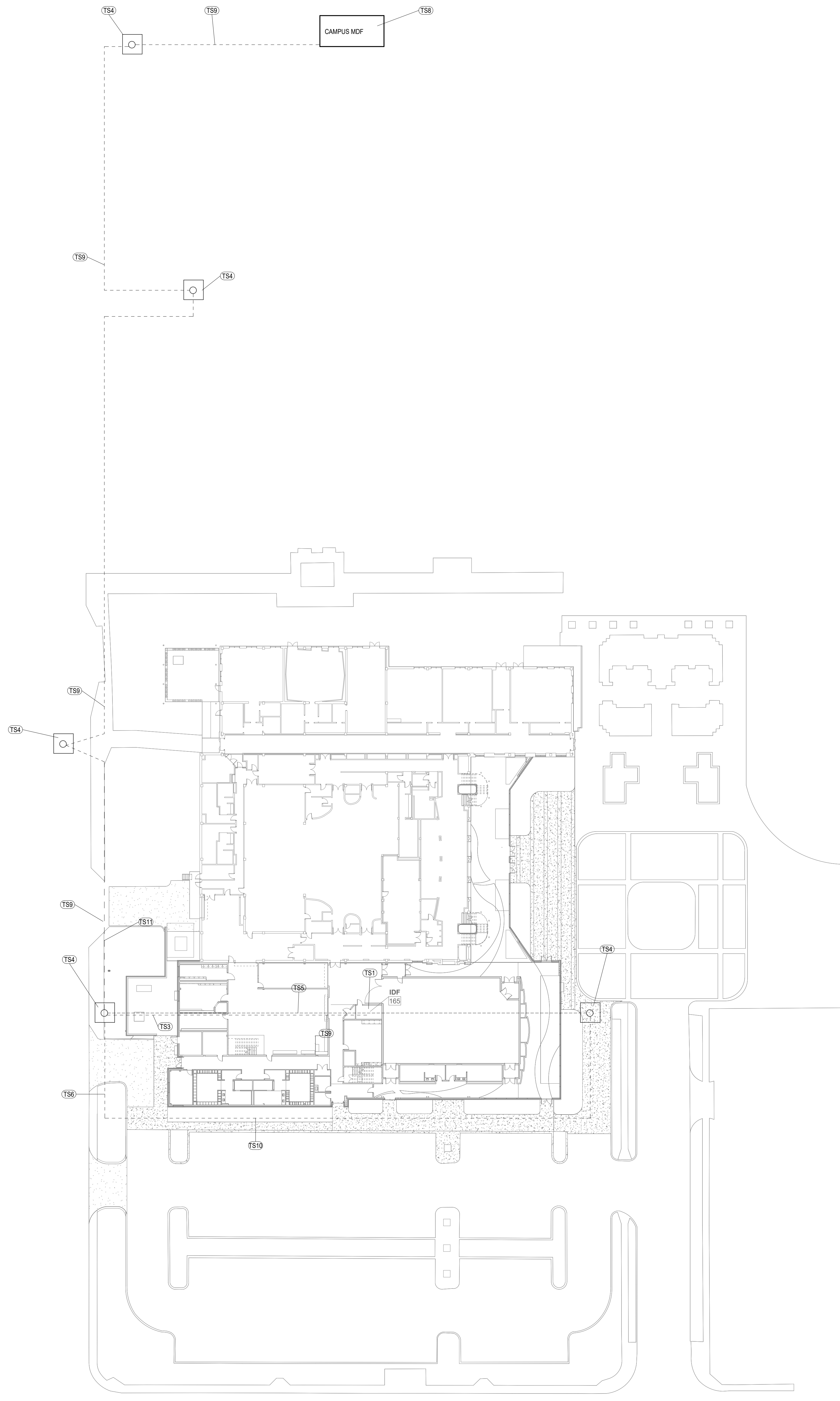
DRAWING HISTORY table with columns for No., Description, and Date.

ISSUE FOR CONSTRUCTION BUILDING NUMBER 1

TECHNOLOGY SYSTEM NOTES AND LEGENDS



# ISSUE FOR CONSTRUCTION



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

**TECHNOLOGY KEYNOTES**

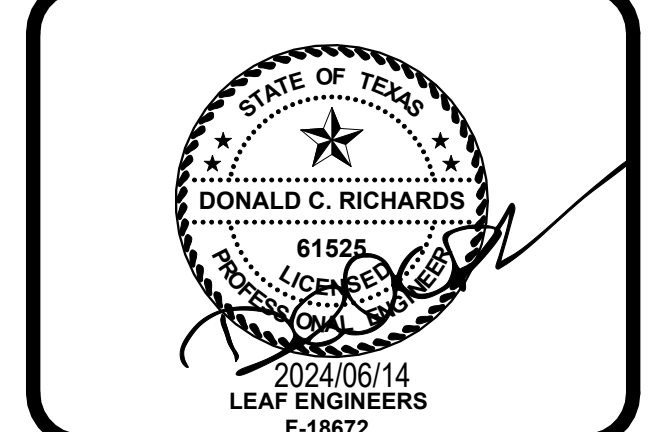
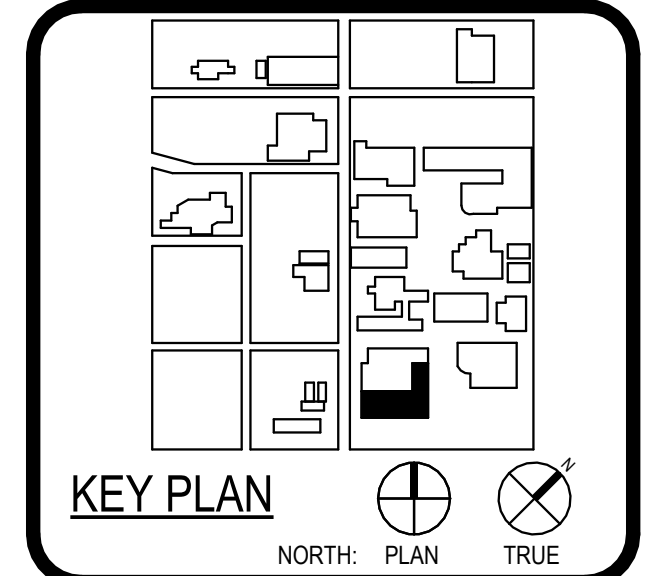
- TS1 INDICATES THE APPROXIMATE LOCATION OF THE NEW BUILDING IDF. CONDUITS SHALL BE STUB EVENTLY AT +8 A.F.F. TO ENTER THE NEW MDF/IDF
- TS3 CONTRACTOR TO INSTALL TWO (2) FOUR INCH (4") CONDUIT WITH A PULLING LINE FROM THIS MANHOLE ALL THE WAY TO THE NEW IDF ROUTED AT 4 B.F.G. PROVIDE TWO (2) 3-CELL 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



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

ISSUE FOR CONSTRUCTION  
 BUILDING NUMBER 1

**SITE TECHNOLOGY PLAN**

**TS-101**