



Owner Change Order

Change Order Number: 003

City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Flintco LLC (40-000)
Project # 20136

Date: 9/28/2021

To Owner:
City of Norman
201-C West Gray
Norman, Oklahoma 73069

Contract Number: K-2021-35
Contract Date: 10/13/2020

The Contract is hereby revised by the following items:

Details

Includes Costs for the Following:

- Revision 7
- Revision 8
- Revision 9
- Additional Safety Stripping
- Additional Security & Access Control
- Tile Change (Excluding Markup)
- Change to Sliding Glass Window
- Addition of Roof Hydrant Curbs
- TAC Conduit Sizing Change
- Addition of Electrical for Lubrication Controller
- Split Additional Cost of Lubrication Controller (Excluding Markup)
- Additional FRP
- Additional Backer Board
- Weather Delay Days Thru 09/22/2021***

Items with *** have no cost impact.

PCO #	Title	Amount
003	Change Order No. 003	\$102,609.21
PCO Total:		\$102,609.21

The original Contract Value	\$8,648,000.00
Sum of changes by prior Prime Contract Change Orders	\$139,894.63
The Contract Value prior to this Prime Contract Change Order	\$8,787,894.63
The Contract Value will be changed by this Prime Contract Change Order in the amount of	\$102,609.21
The new Contract Value including this Prime Contract Change Order will be	\$8,890,503.84
The Contract duration will be changed by	58 days
The revised Substantial Completion date as of this Prime Contract Change Order	11/24/2021

Flintco, LLC

CONTRACTOR

2302 S. Prospect
Oklahoma City, Oklahoma 73129

Address _____

By _____

SIGNATURE _____

DATE _____

City of Norman

OWNER

201-C West Gray
Norman, Oklahoma 73069

Address _____

By _____

SIGNATURE _____

DATE _____

GSB, Inc. Architects & Planners

ARCHITECT

3555 NW 58TH Street, Suite 700W
Oklahoma City, OK 73112

Address _____

By _____

SIGNATURE _____

DATE _____

PROPOSED CHANGE ORDER SUMMARY--- CONSTRUCTION MANAGER

Construction Manager:

Flintco, LLC

THE CITY OF NORMAN

Proj Name/ #: Norman North Base - Phase 1 / 20136 (Main Job)

PCO No.: #003

REV 7, REV 8, REV 9, Add Safety Stripping, Add Security & Access Control, Tile Change, Add Sliding Glass Window, Add Roof Hydrant Curbs, TAC Conduit Size Change, Add Elec and Cost for Lubrication Controller, Additional FRP and Add Backer Board

PCO Title: and Cost for Lubrication Controller, Additional FRP and Add Backer Board

PCO Date: 9/22/2021

1.	Subcontractors' Work (enter amounts from Subcontractor Summary Sheets)		
DIV 22/23	Orcutt (REV 7)		\$ 2,723.00
DIV 26	DSE (REV 7)		\$ 1,078.00
DIV 22/23	Orcutt (REV 8)		\$ 7,662.00
DIV 26	DSE (REV 8)		\$ 1,560.00
DIV 06	Alpha Omega (REV 8)		\$ 3,810.00
DIV 09	Wijjo (REV 8)		\$ 583.00
DIV 02	Midwest Wrecking (REV 9)		\$ 1,140.00
DIV 32	Turning Point (REV 9)		\$ 10,730.00
DIV 26	DSE (REV 9)		\$ 5,951.00
DIV 32	American Fence (REV 9)		\$ 15,000.00
DIV 09	Ardor (Add Safety Stripping)		\$ 4,760.00
DIV 26	DSE (Add Security & Access Control)		\$ 833.00
DIV 09	Apex (Tile Change) - Note: Excludes Markup		\$ 780.50
DIV 08	Tepco (Change to Sliding Glass Window)		\$ 1,005.00
DIV 22/23	Orcutt (Addition of Roof Hydrant Curbs)		\$ 1,980.00
DIV 22/23	Orcutt (TAC Conduit Sizing Change)		\$ 676.80
DIV 26	DSE (Addition of Electrical Box for Lubrication Controller)		\$ 121.00
DIV 09	Wijjo (RFI #33 - Additional FRP)		\$ 400.00
DIV 09	Wijjo (RFI #61 - Additional of Backer Board) - Fleet		\$ 7,350.00
DIV 22/23	Orcutt (Split Additional Cost of Lubrication Controller) - Note: Excludes Markup		\$ 2,106.40
	Subtotal for Subcontractors' Work		\$ 70,249.70
2.	Itemized Direct Project Management Cost Increases (if any)		
	Field Engineer (Layout): 1 Days @ \$70/HR		\$ 560.00
	Labor Foreman: 0 Days @ \$65/HR		\$ -
	Burden Rate (58% DPM Costs)		\$ 324.80
	Subtotal for Direct Project Management Cost Increases (if any)		\$ 884.80
	Subtotal 1. + 2.		\$ 71,134.50
3.	Construction Manager's Self Performed Work		
DIV 06	Oakridge (REV 8)		\$ 1,604.71
DIV 05	Oakridge (REV 9)		\$ 2,745.74
	Clean-Up: 1 Days @ \$45/HR (Incl. Burden Rate @ 58%)		\$ 360.00
	Subtotal for Construction Manager's Self Perfrom Work		\$ 4,710.45
	Subtotal, Cost of Work and Direct Proj Mgmt Cost		\$ 75,844.95
4.	Construction Manager Fee (Percent of Subtotal 1. and 2. above)	10.00%	\$ 6,824.76
5.	Construction Manager Overhead (Percent of Subtotal 1. and 2. above)	5.00%	\$ 3,412.38
6.	CM's Liability Insurance	0.65%	\$ 559.53
7.	Subcontractor Default Insurance, if authorized (% of Subcontractor Subtotal)	1.60%	\$ 1,386.27
8.	CM's Builders Risk Insurance	0.55%	\$ 484.15
9.	Project Bonds	0.82%	\$ 725.80
	Total Cost of Chan		\$ 89,237.84

Approved for Construction -- Any cost component may be adjusted in accordance with the Agreement for At-Risk Construction Management Services.

Construction Manager

Architect/Engineer

Owner

PROPOSED CHANGE ORDER SUMMARY--- CONSTRUCTION MANAGER

Construction Manager:

Flintco, LLC

THE CITY OF NORMAN

Proj Name/ #: Norman North Base - Phase 1 / 20146 (Alternate)

PCO No.: #003

REV 7, REV 8, REV 9, Add Security & Access Control, Tile Change, Add Roof Hydrant

PCO Title: Curbs, TAC Conduit Size Change and Add Backer Board

PCO Date: 9/22/2021

1.	Subcontractors' Work (enter amounts from Subcontractor Summary Sheets)		
DIV 26	DSE (REV 7)		\$ 80.00
DIV 26	DSE (REV 8)		\$ 643.00
DIV 22/23	Orcutt (REV 9)		\$ 2,981.00
DIV 26	DSE (REV 9)		\$ 436.00
DIV 26	DSE (Add Security & Access Control)		\$ 664.00
DIV 09	Apex (Tile Change) - Note: Excludes Markup		\$ 780.50
DIV 22/23	Orcutt (Addition of Roof Hydrant Curbs)		\$ 1,980.00
DIV 22/23	Orcutt (TAC Conduit Sizing Change)		\$ 451.20
DIV 09	Wiljo (RFI #61 - Addition of Backer Board)		\$ 3,110.00
	Subtotal for Subcontractors' Work		\$ 11,125.70
2.	Itemized Direct Project Management Cost Increases (if any)		
	Field Engineer (Layout): 0 Days @ \$70/HR		\$ -
	Labor Foreman: 0 Days @ \$65/HR		\$ -
	Burden Rate (58% DPM Costs)		\$ -
	Subtotal for Direct Project Management Cost Increases (if any)		\$ -
	Subtotal 1. + 2.		\$ 11,125.70
3.	Construction Manager's Self Performed Work		
DIV 06	Oakridge (REV 8)		\$ 221.03
	Clean-Up: 0 Days @ \$45/HR (Incl. Burden Rate @ 58%)		\$ -
	Subtotal for Construction Manager's Self Perfrom Work		\$ 221.03
	Subtotal, Cost of Work and Direct Proj Mgmt Cost		\$ 11,346.73
4.	Construction Manager Fee (Percent of Subtotal 1. and 2. above)	10.00%	\$ 1,034.52
5.	Construction Manager Overhead (Percent of Subtotal 1. and 2. above)	5.00%	\$ 517.26
6.	CM's Liability Insurance	0.65%	\$ 83.84
7.	Subcontractor Default Insurance, if authorized (% of Subcontractor Subtotal)	1.60%	\$ 207.72
8.	CM's Builders Risk Insurance	0.55%	\$ 72.55
9.	Project Bonds	0.82%	\$ 108.75
Total Cost of Change			\$ 13,371.37

Approved for Construction -- Any cost component may be adjusted in accordance with the Agreement for At-Risk Construction Management Services.

Construction Manager

Architect/Engineer

Owner

Current Delay Days Requested:

Weather: 7 Working Days (9 Calendar Days) from 06/12/2021 - 09/22/2021

Fleet PEMB Roofing: 19 Working Days (27 Calendar Days) from 05/14/2021 - 07/17/2021

Proof Rolling: 6 Working Days (8 Calendar Days) from 08/13/2021 - 08/20/2021

Additional Days Associated with CO# 003: 10 Working Days (14 Calendar Days)

Total Working Days Requested: 42 Working Days (58 Calendar Days)

Requested Revised Substantial Completion Date: 11/24/2021

20136
MAIN JOB

REVISION 7



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #003: CE #003 - Revision 7 plumbing

Table with 4 columns: Field Name, Value, Field Name, Value. Includes fields like TO: Flintco, FROM: Orcutt Mechanical Contractors, PCO NUMBER/REVISION: 003 / 0, CONTRACT: 1 - North Base Fleet Contract Prime Contract, REQUEST RECEIVED FROM, CREATED BY: Matthew Weber (Orcutt Mechanical Contractors), STATUS: Pending - In Review, CREATED DATE: 8/10/2021, REFERENCE, PRIME CONTRACT CHANGE ORDER: None, FIELD CHANGE: No, LOCATION, ACCOUNTING METHOD: Amount Based, SCHEDULE IMPACT: 2 days, PAID IN FULL: No, EXECUTED: No, SIGNED CHANGE ORDER RECEIVED DATE, TOTAL AMOUNT: \$2,723.00

POTENTIAL CHANGE ORDER TITLE: CE #003 - Revision 7 plumbing

CHANGE REASON: Design Development

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows)

CE #003 - Revision 7 plumbing changes

Revision 7 plumbing changes including addition of solenoid valve and switch for water line in restroom. Modifications to water lines included. Please see breakout (attached).

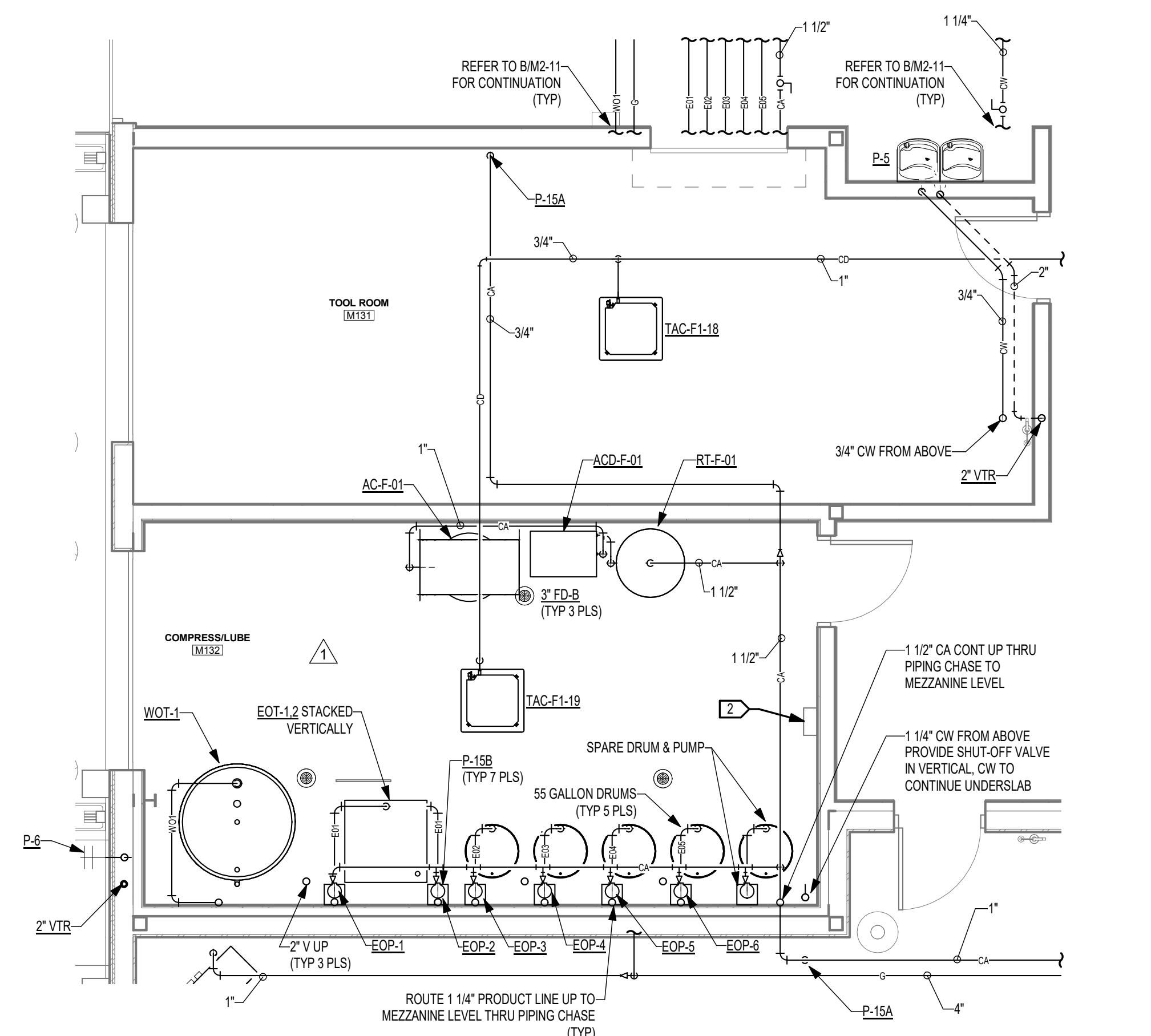
ATTACHMENTS:

Orcutt CO Form Soleniod switch.xlsx

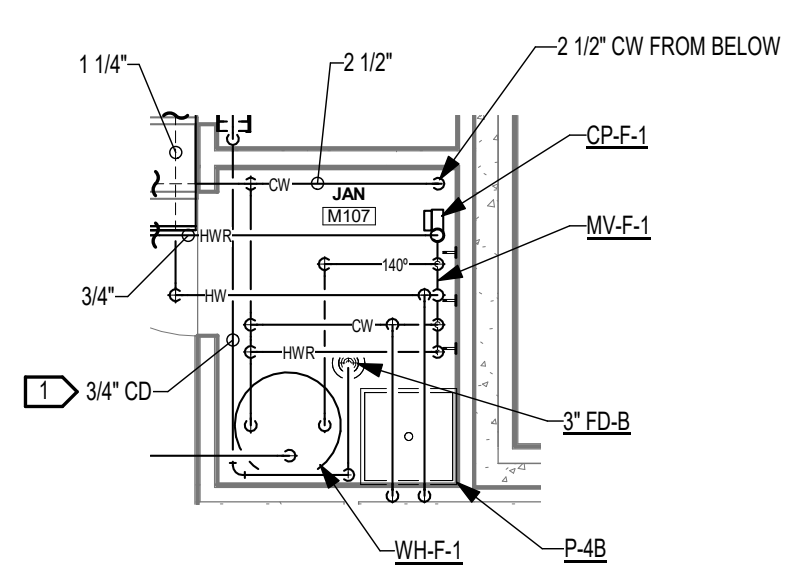
Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

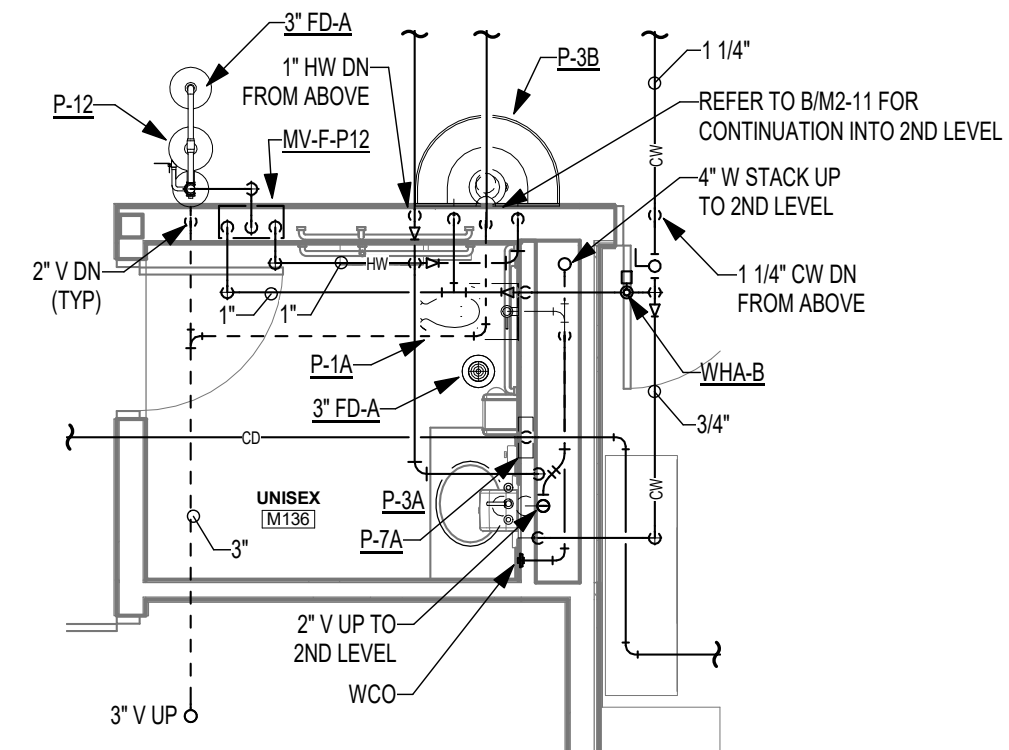
SIGNATURE DATE SIGNATURE DATE SIGNATURE DATE



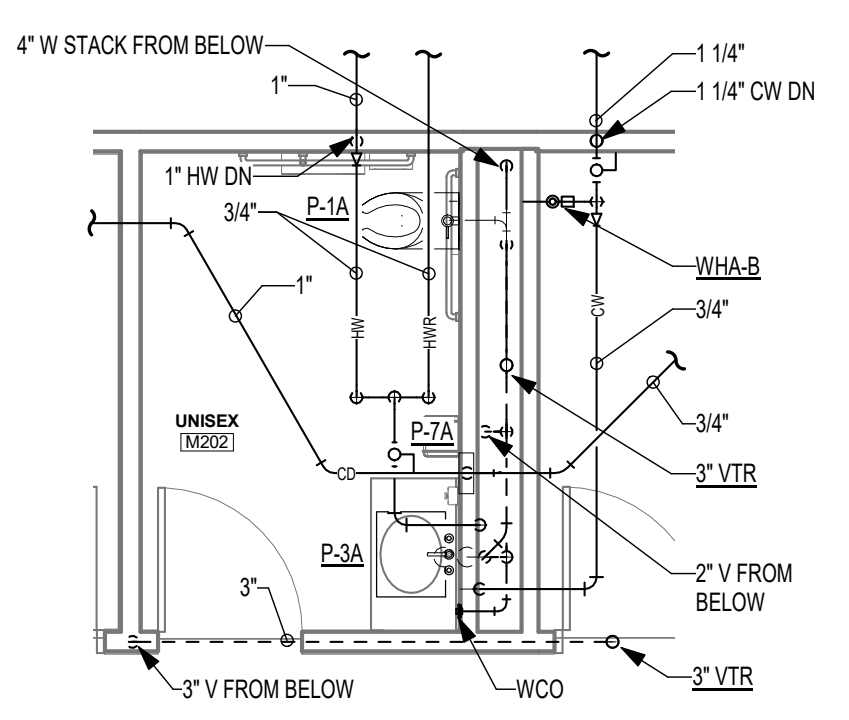
**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M131**
SCALE: 1/4" = 1'-0"



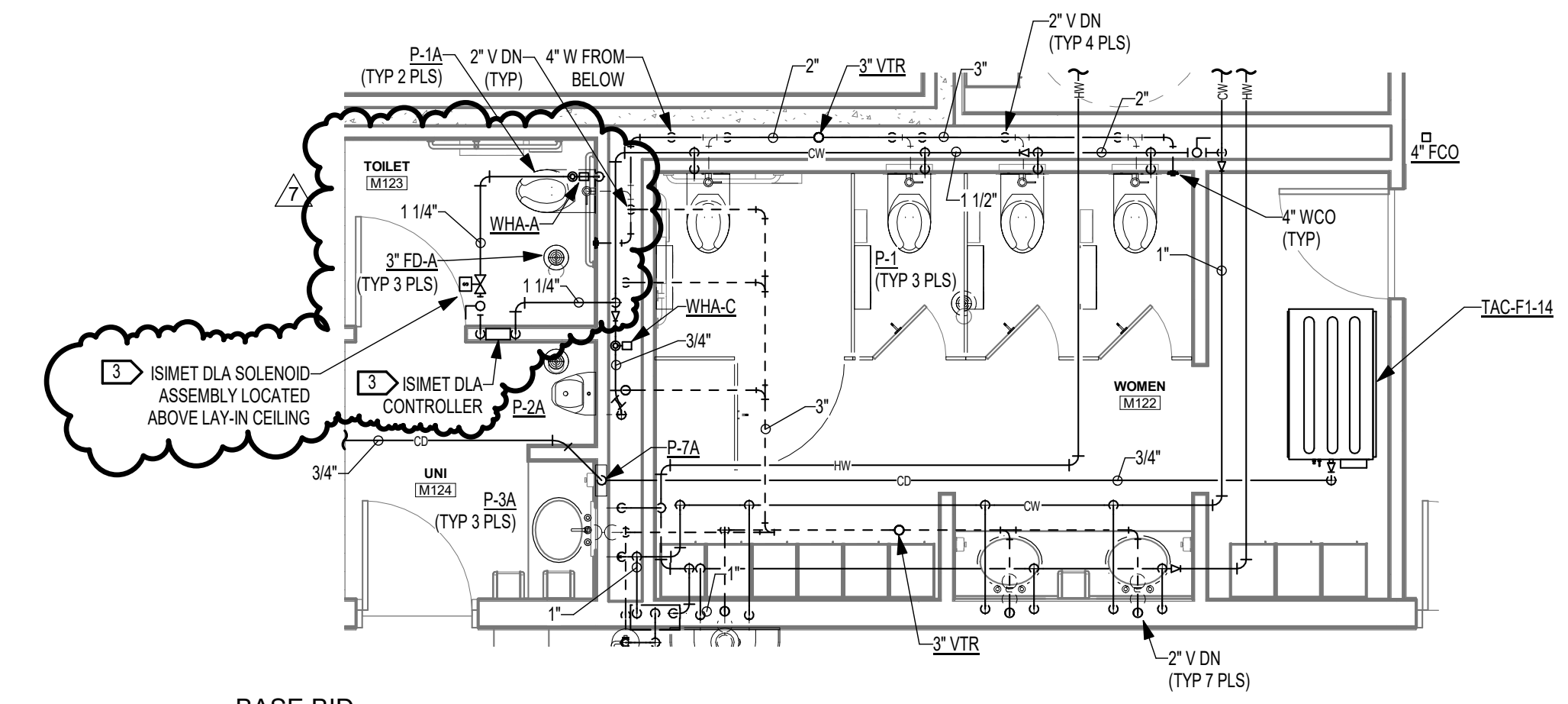
**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M107**
SCALE: 1/4" = 1'-0"



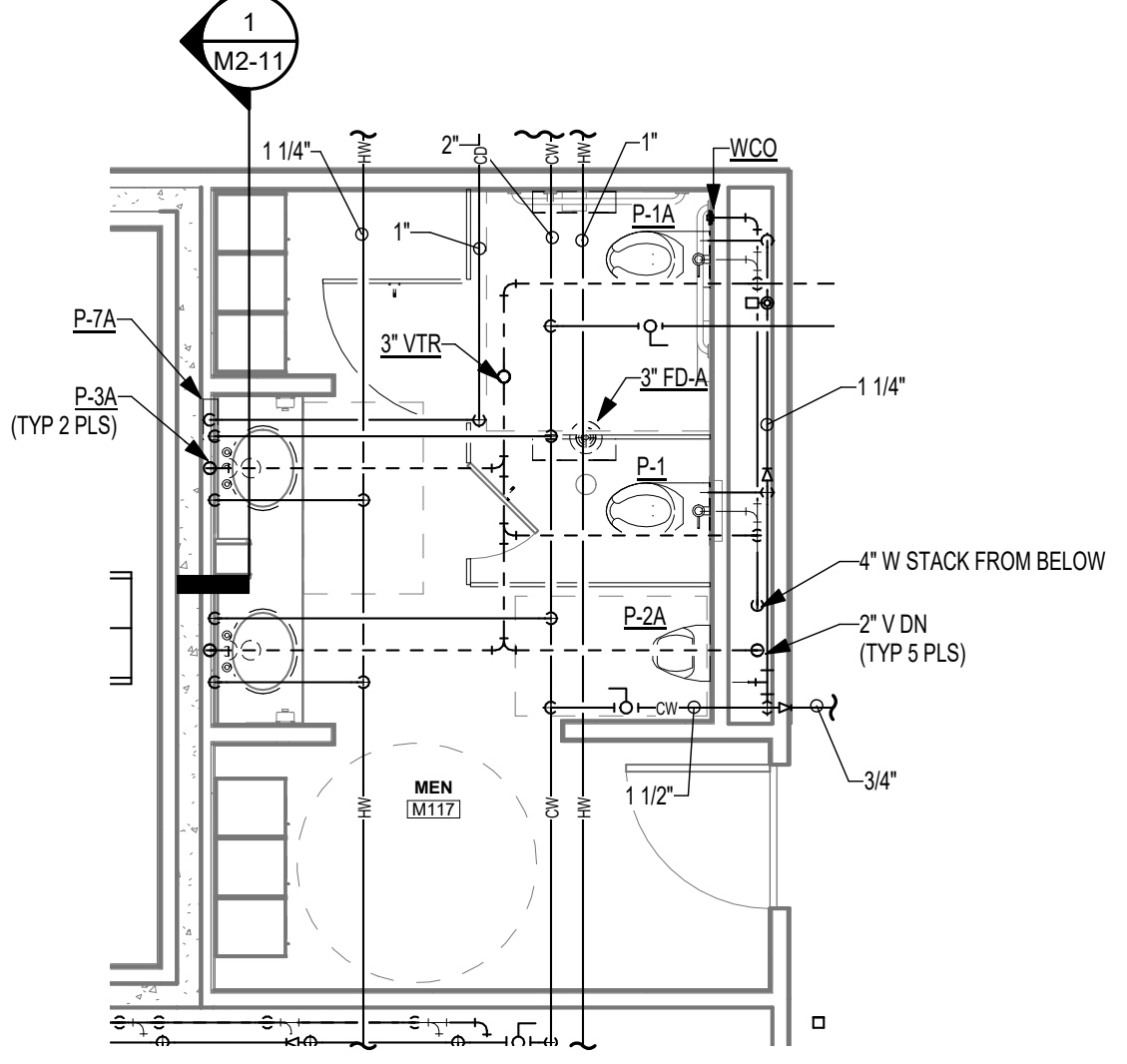
**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M136**
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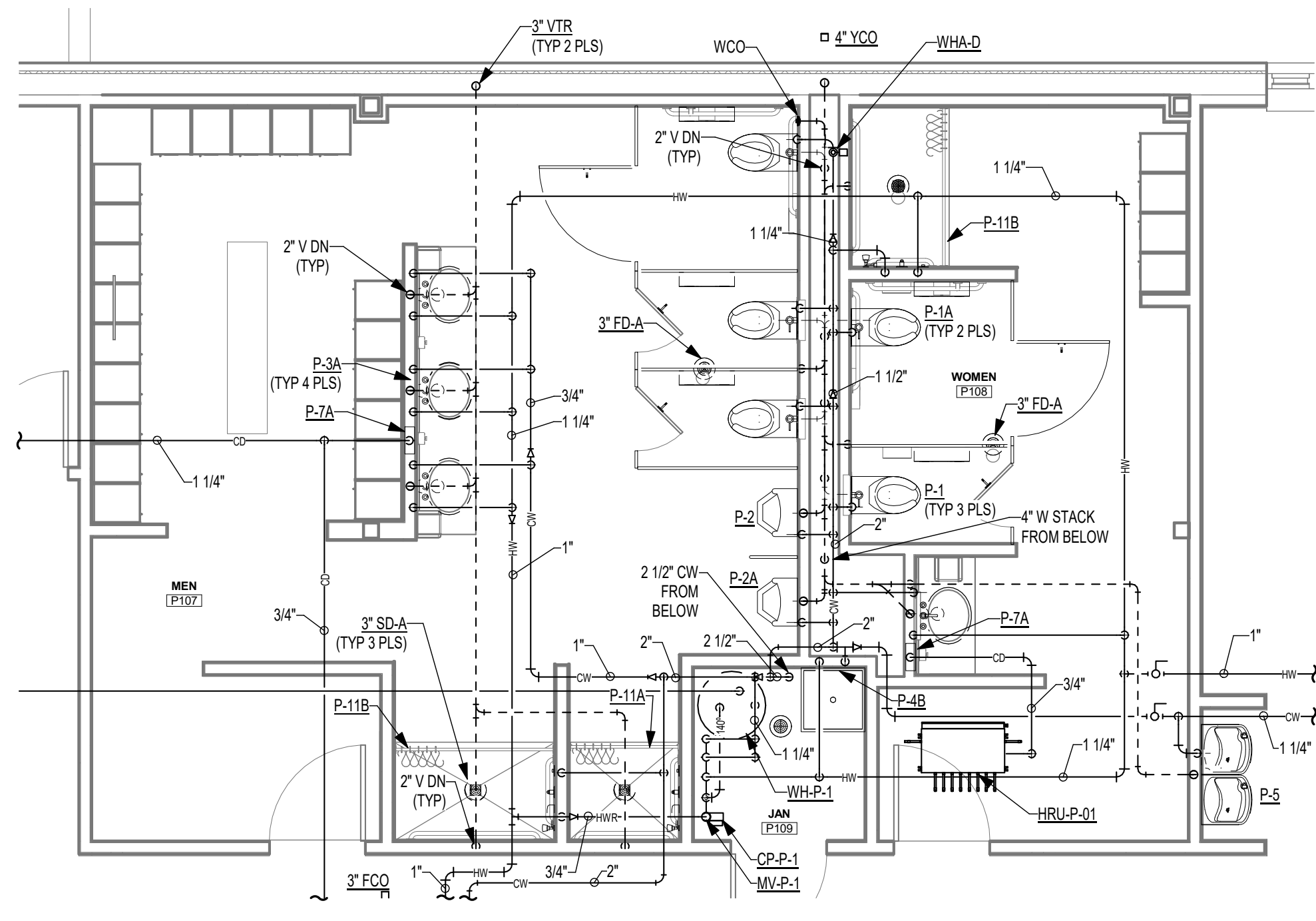
**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M202**
SCALE: 1/4" = 1'-0"



**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M117**
SCALE: 1/4" = 1'-0"



**BASE BID
FLEET MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - M117**
SCALE: 1/4" = 1'-0"



**ALT #1
PARKS MAINTENANCE BUILDING
ENLARGED PLUMBING PLAN - P107-108**
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- ROUTE CONDENSATE DRAIN TO ED-8. PROVIDE SECURE INDIRECT CONNECTION.
- PROVIDE ALEMITE MODEL #K3010 FLUID MANAGEMENT SYSTEM CONTROLLER WITH PRINTER OR PRIOR APPROVED ALTERNATE.
- PROVIDE ISMET DLA SERIES WATER CONTROLLER FOR DRUG TESTING LAB FOR SINGLE RESTROOM USE. CONTROLLER TO BE MOUNTED TO WALL FACING ROOM UNI #M124. CONTROLLER TO BE MOUNTED 48" AFF. PROVIDE FACTORY SOLENOID VALVE ASSEMBLY, LOCATED ABOVE LAY-IN CEILING IN ROOM TOILET #M123.



OWNER
CITY OF NORMAN, OKLAHOMA
201 A WEST GRAY STREET
NORMAN, OKLAHOMA 73069
(405) 366-5406
www.NormanOK.gov

ARCHITECT
GSB, INC.
3555 NW 58th Street, Suite 700W
Oklahoma City, OK 73112
(405) 948-9949
www.gsb-inc.com

CIVIL ENGINEER
JOHNSON & ASSOCIATES
1 EAST SHERIDAN AVE. - STE. 200
OKLAHOMA CITY, OKLAHOMA 73104
(405) 235-8075
www.jaac.com

STRUCTURAL ENGINEER
WALLACE ENGINEERING
410 NORTH WALNUT AVE. - STE. 200
OKLAHOMA CITY, OKLAHOMA 73104
(405) 228-8688
www.wallaces.com

M/P/FP ENGINEER
ALLEN CONSULTING, INC.
110 NORTH MERCEDES DRIVE
NORMAN, OK 73069
(405) 928-7702
www.alcncorp.com

ELECTRICAL ENGINEER
HORNOR ASSOCIATES ENGINEERS
1306 COMMERCE DRIVE
NORMAN, OKLAHOMA 73071
(405) 801-2528
www.haeinc.com

LANDSCAPE ARCHITECT
PLANNING DESIGN GROUP
5314 SOUTH YALE AVE. - STE. 510
TULSA, OKLAHOMA 74135
(918) 628-1255
www.planningdesigngroup.com

CITY OF NORMAN
NORTH BASE COMPLEX - PHASE 1
1310-1380 DA VINCI STREET
NORMAN, OK

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Suite 700W
Oklahoma City, OK 73112
T: 405.848.9549
F: 405.848.9783
www.gsb-inc.com

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REVISIONS		
NO.	DATE	DESCRIPTION
1	9-10-2020	ADD #1
7	7-23-2021	REVISION #7

GSB PROJECT NO.
191650

DRAWING TITLE
ENLARGED PLUMBING PLANS

DATE
AUGUST 28, 2020

DRAWING NO.

M2-40

ALLEN CONSULTING INCORPORATED
110 N. Meriville Dr., Suite 100
Norman, OK 73069-6239
PH: (405) 447-2702 FAX: (405) 447-2284

ISIMET
DLA Series Controller
For Institutional Facilities
Including Healthcare Facilities and
Drug Testing Laboratories



ENCLOSED INDUSTRIAL CONTROL PANEL NO. E-258342
Meets all Standards for Canadian Industrial Control Panels



Application:

The DLA Series Controller is used to operate remotely located 12-vdc latching solenoids for domestic water services in Healthcare Facilities or in a Drug Testing Laboratory.

This unit is provided with ISIMET latching circuit boards that permit a signal to latch the solenoids ON and OFF, controlling the water supply to the restroom facility. In the case of patient rooms in a Healthcare Facility the ON circuit on the primary pcb enables the water to be turned ON and OFF either remotely or locally. For Drug Testing Labs, the unit is intended to control the water flow to the restroom where drug samples are deposited. One board is designated to operate ON-OFF the water supply valves. A secondary board permits solenoids to operate ON when the primary solenoids are OFF, thus allowing for drain-down of the piping. (MAX four solenoids per circuit board)

The unit conforms to all requirements of UL 508-A for Industrial Control Panels.

Features:

- Panic Button: Disengages the system; requiring key activation.
- Push Button or Key Switch: Activates the system each time a circuit is to be engaged.
- Control Switch: Activates a circuit with key activation or deactivates to OFF.
- Panel Mounted LEDs: Indicates the circuit is active.
- Integrated operating system inputs including building automation.
- Integrated notification output circuits.

* All Standard Styles are provided with Panic Button Assembly

Styles 1 & 2 Specifications:

- Integral 5 amp rated circuit service switch / j-box / transformer / pcb
- Control Panel - Stainless Steel 16 gauge W/ removable concealed hinge and gasket.
- Captive screws secure panel to enclosure.
- Wall Box Enclosure – 16 gauge powder coated sheet metal
- Enclosure Size W/ Pulse - 6.0 X 14.25 X 4
- Enclosure Size W/O Pulse - 6.0 X 12.25 X 4
- Unit performs as a single circuit Controller of water services W/ monitoring beacon output.

Style 3 Specifications:

- Integral 15 amp rated circuit service switch / j-box / transformer / pcb
- Control Panel - Stainless Steel 16 gauge
- Wall Box Enclosure – 16 gauge powder coated sheet metal
- Enclosure size - 16 X 14 X 6 for up to 4 circuits, 18 X 18 X 6 for 6-8 circuits, and 24 X 24 X 6 for Custom Assemblies.
- Unit performs as a multiple circuit Controller of water services.

DSE Bidding and Estimating Form

Job: NORTH BASE

Page # 12

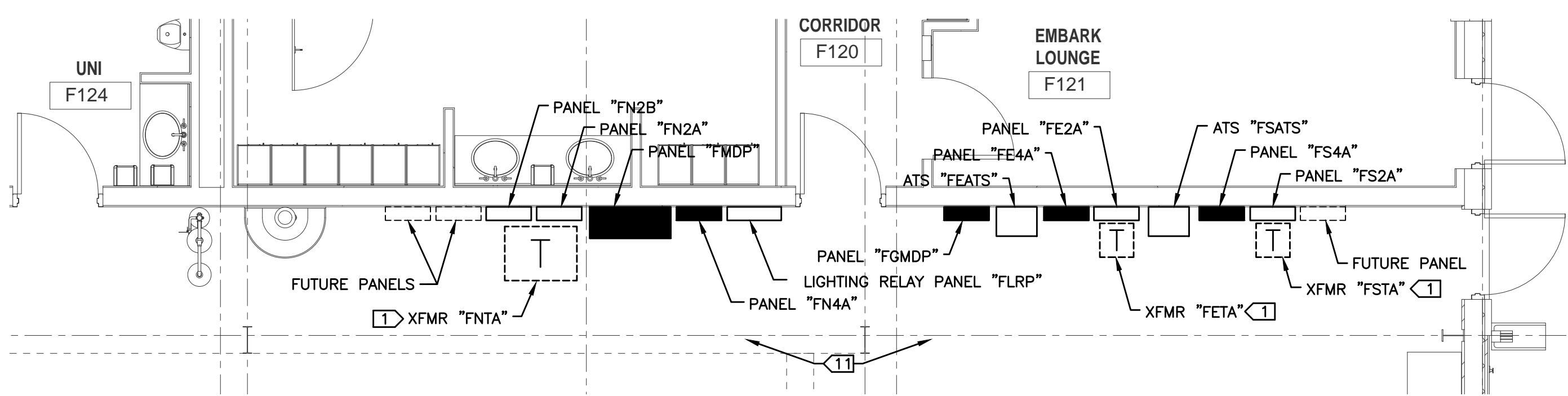
Area: REVISION 7 FLEET

Enter E, C or W in Unit

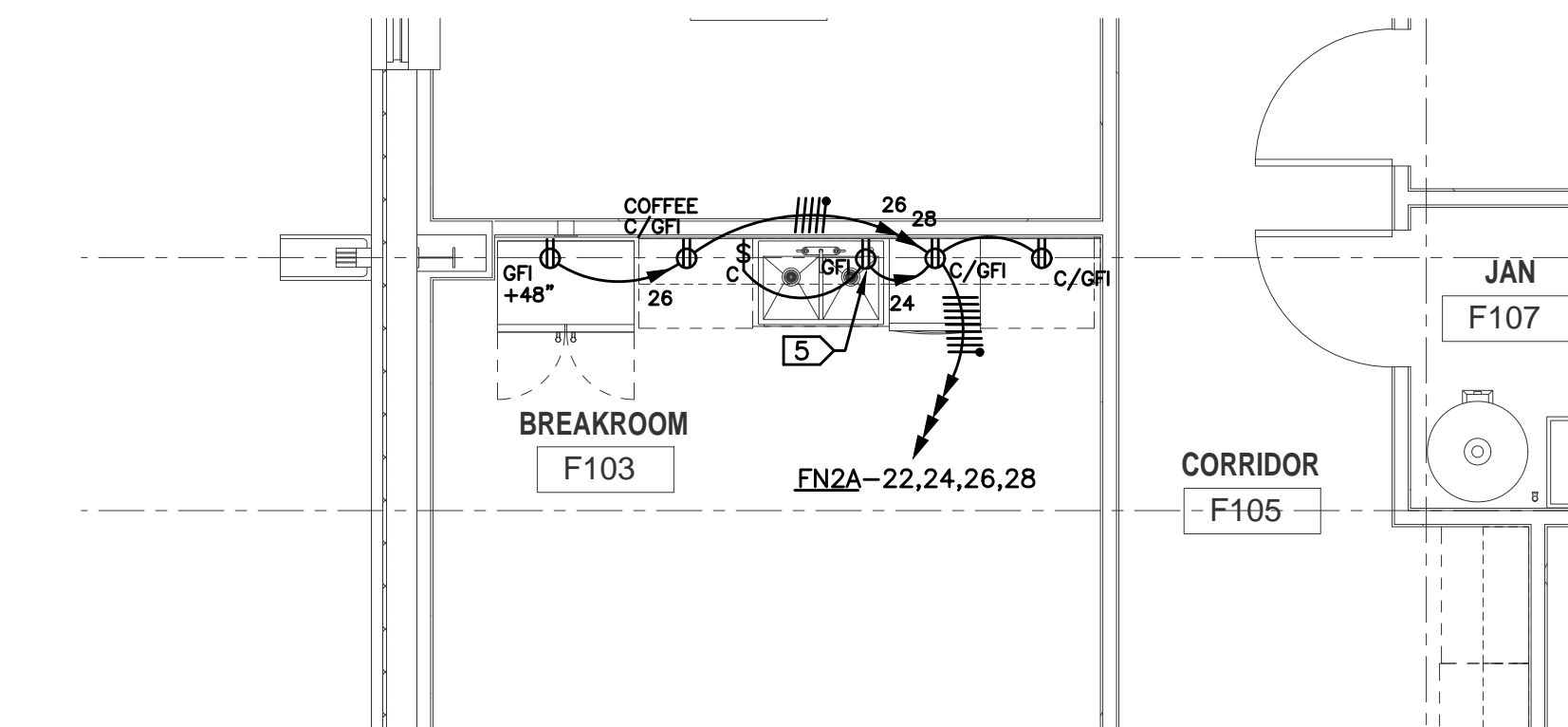
Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1			added 2 data roughs, circuit for forklift, and						
2			circuit for drug test controller						
3									
4	2	e	10' sticks of 3/4" emt for data rough			12.50	25.00		
5	2	e	4sqr for data rough			5.00	10.00		
6	2	e	2 hours 1 man labor	1	2.00				
7									
8	13	e	10' sticks of 3/4" emt for fork lift			12.50	162.50		
9	1	e	3/4" seal off			25.00	25.00		
10	390	e	130 x 3 of #12 thhn			0.25	97.50		
11	6	e	6 hours labor	1	6.00				
12									
13	1.5	e	10' stick of 3/4" emt for drug test station			12.50	18.75		
14	2	e	4sqr boxes			5.00	10.00		
15	60	e	20' x 3 of #12 thhn			0.25	15.00		
16	3	e	3 hours 1 man labor	1	3.00				
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
Totals				3	11.00		363.75		0.00

Labor Hour Rate	60	Total Labor	660
Tax Rate		Total Material	418
Profit	15.00%	Total Opening	0
		Total	1,078

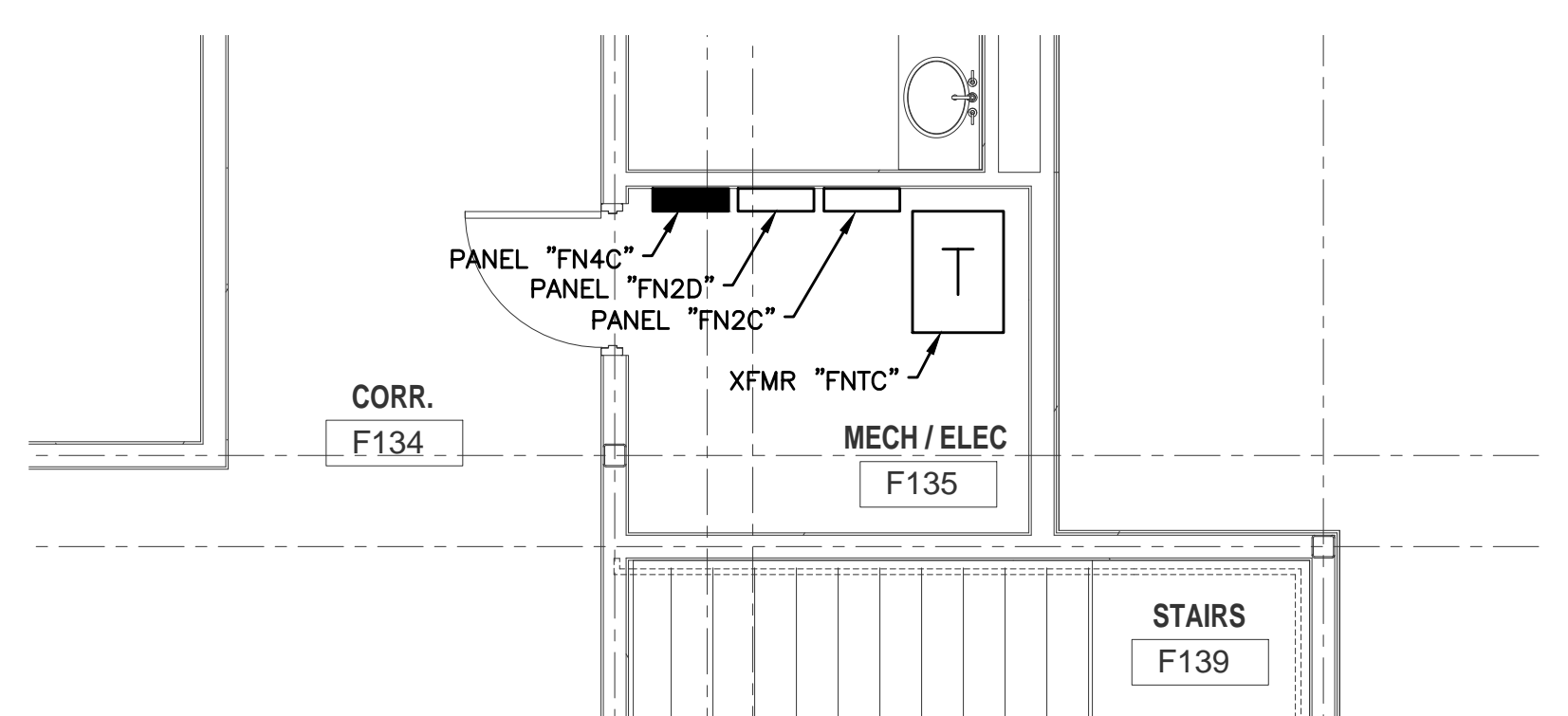
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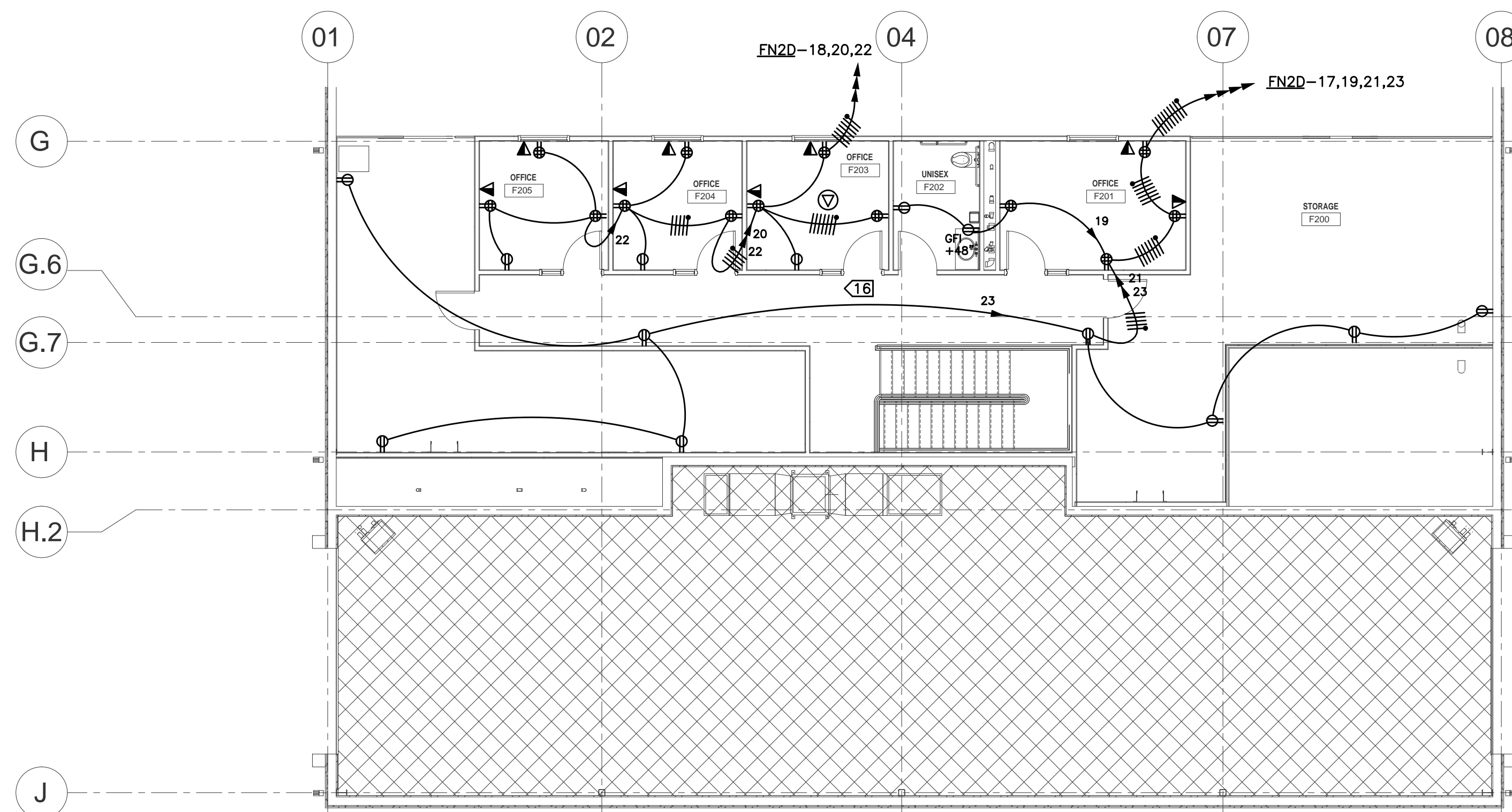
3
E3-01 1/8" = 1'-0"
PLAN NORTH



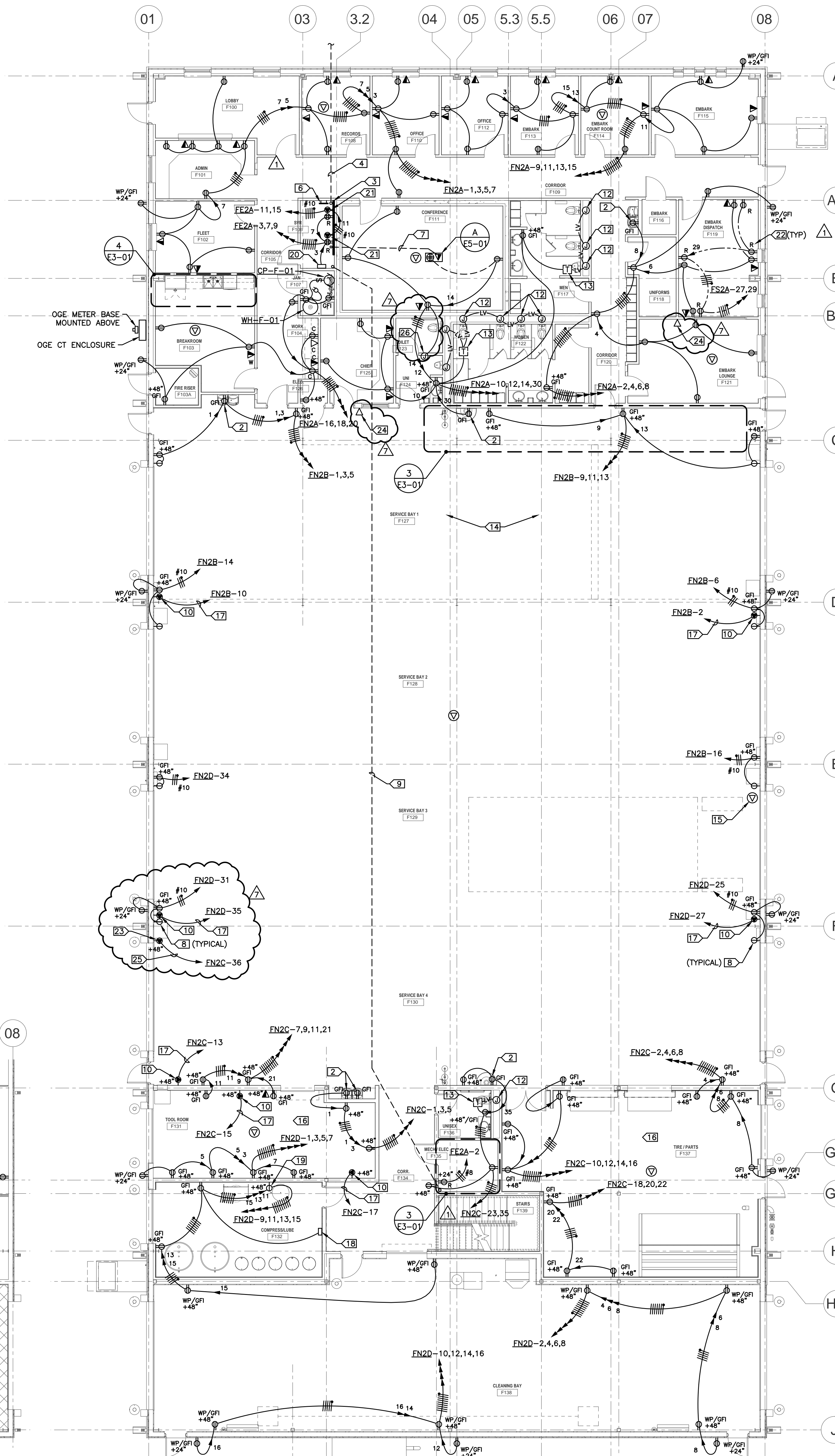
4
E3-01 1/4" = 1'-0"
PLAN NORTH



5
E3-01 1/4" = 1'-0"
PLAN NORTH



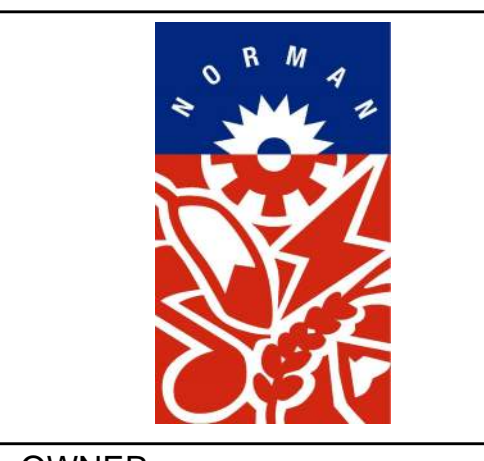
2
E3-01 1/8" = 1'-0"
PLAN NORTH



1
E3-01 1/8" = 1'-0"
PLAN NORTH

- GENERAL NOTES:**
- A. ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVING GASOLINE AND CNG VEHICLES.
 - B. SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RSCG WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.
 - C. THE CNG HAZARDOUS AREA REQUIREMENTS AT THE CEILING SHALL BE MET BY USE OF A VENTILATION SYSTEM TO PROVIDE THE REQUIRED AIR CHANGES PER HOUR IN ACCORDANCE WITH NEC TABLE 511.3(D). NO CNG HAZARDOUS AREA SHALL BE REQUIRED AT THE CEILING.
 - D. ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.
 - E. OFFICE AREA SHALL BE PROVIDED WITH POSITIVE PRESSURE HVAC AND SHALL NOT BE CLASSIFIED HAZARDOUS.
 - F. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.
 - G. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.
 - H. CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY-IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATIONS.
 - I. COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECT.
 - J. 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.
 - K. CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.
 - L. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.
 - M. PROVIDE 120V GFCI DUPLEX RECEPTACLE AND PIGTAIL CONNECTED TO NEAREST RECEPTACLE CIRCUIT AT EACH TRAP PRIMER. RE: MECHANICAL DRAWINGS FOR LOCATIONS.
 - N. RE: CONVENTION DRAWINGS FOR ACCESS CONTROL & CCTV CONDUITS AND ENCLOSURES TO BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL PROVIDE ALL CONDUIT AND POWER CIRCUITING REQUIRED BY THOSE DRAWINGS.

- KEYED NOTES:**
1. WALL MOUNTED TRANSFORMER. RE: DETAIL "A" SHEET E3-02.
 2. RECEPTACLE FOR PLUMBING FIXTURE. MOUNT BEHIND EQUIPMENT SHROUD. COORDINATE WITH EQUIPMENT INSTALLER. DO NOT MOUNT LOWER THAN 20" TO BOTTOM OF BOX.
 3. TELEPHONE TERMINAL BOARD "TTBF". PROVIDE 4'X8'X 3/4" FIRE RETARDANT PLYWOOD PAINTED WITH FIRE RETARDANT PAINT.
 4. (4) 4" PVC CONDUITS ROUTED 36" BFO FOR COMMUNICATIONS CABLING. STUB CONDUITS UP 4" AFF AT TELEPHONE TERMINAL BOARD "TTBF". RE: SHEET E1-01 FOR CONTINUATION.
 5. SPLIT DUPLEX RECEPTACLE (TOP HALF SWITCHED) AND COUNTER MOUNTED SWITCH FOR IN-SINK GARBAGE DISPOSAL AND DISHWASHER. RECEPTACLE MOUNTED BELOW COUNTER. COORDINATE SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH MILLWORK.
 6. GROUND BAR MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH OWNER. RE: ONE-LINE DIAGRAM AND GROUND BAR DETAIL "B", SHEET E5-01.
 7. STUB 1.25" CONDUIT WITH PULL STRING UP AT TERMINAL BOARD FOR DATA CABLING.
 8. PROVIDE NEMA 5-15R SIMPLEX RECEPTACLE MOUNTED ADJACENT TO DOCK LIGHT RE: SHEET E2-01. FIXTURE IS PROVIDED WITH PIGTAIL.
 9. (1) 4" PVC CONDUIT ROUTED 24" BELOW SLAB. STUB-UP IN CORNER OF EACH ROOM FOR COMMUNICATIONS CABLING.
 10. NEMA 14-50R RECEPTACLE.
 11. ALL CONDUIT STUB-UPS IN THE HAZARDOUS AREA SHALL COMPLY WITH NEC REQUIREMENTS. PROVIDE PVC COATED RSCG CONDUIT STUBBED AT LEAST 19" AFF SO THERE ARE NO FITTINGS WITHIN THE HAZARDOUS AREA.
 12. PROVIDE JUNCTION BOX FOR AUTOMATIC TOILET/URINAL FLUSH VALVE. COORDINATE EXACT LOCATION WITH PLUMBER.
 13. LOW VOLTAGE TRANSFORMER FOR FLUSH VALVES MOUNTED ABOVE CEILING.
 14. CONDUIT ROUTED OVERHEAD IN CRANE BAY SHALL BE ROUTED 28" AFF OR HIGHER.
 15. LOCATED AT ROOF DECK FOR ROOF MOUNTED VIDEO SYSTEM ANTENNA. COORDINATE WITH OWNER'S SYSTEM VENDOR.
 16. ROUTE ALL COMMUNICATION OUTLET PATHWAYS IN THE SOUTH PORTION OF THE BUILDING TO S.E. CORNER OF MECH/ELEC F135 IN CONDUIT. OWNER MAY PLACE AN IDF IN THIS LOCATION.
 17. 3 #6, 1 #10 GND., 1" C.
 18. FLUID MANAGEMENT SYSTEM. MAKE ALL REQUIRED ELECTRICAL CONNECTIONS TO SENSORS AND ALARMS. RE: MECHANICAL DRAWINGS.
 19. RECEPTACLE FOR AIR DRYER ACD-F-01. COORDINATE EXACT MOUNTING LOCATION WITH MECHANICAL.
 20. BAS CONTROL PANEL(S). COORDINATE EXACT LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.
 21. NEMA L6-30R RECEPTACLE.
 22. "R" SUBSCRIPT INDICATES "STANDBY" POWER DUPLEX RECEPTACLE RED IN COLOR.
 23. RECEPTACLE FOR FORKLIFT. NEMA 15-50R.
 24. DATA OUTLET FOR TIMELOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.
 25. 3 #8, 1 #10 GND., 3/4" C.
 26. JUNCTION BOX FOR DLA CONTROLLER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH MECHANICAL.



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REVISIONS		
NO.	DATE	DESCRIPTION
09/18/20	ADD. NO. 2	
07/23/21		FORKLIFT & TIMELOCKS

GSB PROJECT NO.
191650

DRAWING TITLE
POWER PLAN - FLEET
MAINTENANCE

DATE
08/28/2020

DRAWING NO.
E3-01

REVISION 8



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #004: CE #004 - Revision 8

Table with 4 columns: Field Name, Value, Field Name, Value. Includes fields like TO: Flintco, FROM: Orcutt Mechanical Contractors, PCO NUMBER/REVISION: 004 / 0, CONTRACT: 1 - North Base Fleet Contract Prime Contract, REQUEST RECEIVED FROM, CREATED BY: Matthew Weber, STATUS: Pending - In Review, CREATED DATE: 8/23/2021, REFERENCE, PRIME CONTRACT CHANGE ORDER: None, FIELD CHANGE: No, LOCATION, ACCOUNTING METHOD: Amount Based, SCHEDULE IMPACT, PAID IN FULL: No, EXECUTED: No, SIGNED CHANGE ORDER RECEIVED DATE, TOTAL AMOUNT: \$7,662.00

POTENTIAL CHANGE ORDER TITLE: CE #004 - Revision 8

CHANGE REASON: Design Development

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows)

CE #004 - Revision 8

Per revision 8 relocation of sanitary and water lines for ice maker. Addition of air line drop to lift. Concrete cutting removal and replacement by others.

ATTACHMENTS:

Orcutt CO Form Revision 8.xlsx

NOTE: INCLUDES PROVIDE DEDICATED 3/4" COMPRESSED AIR LINE APPROX. 20'-0" TO VEHICLE LIFT CONTROLLER, INSTALLED IN ACCORDANCE WITH LIFT MANUFACTURERS RECOMMENDATIONS.

Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

SIGNATURE

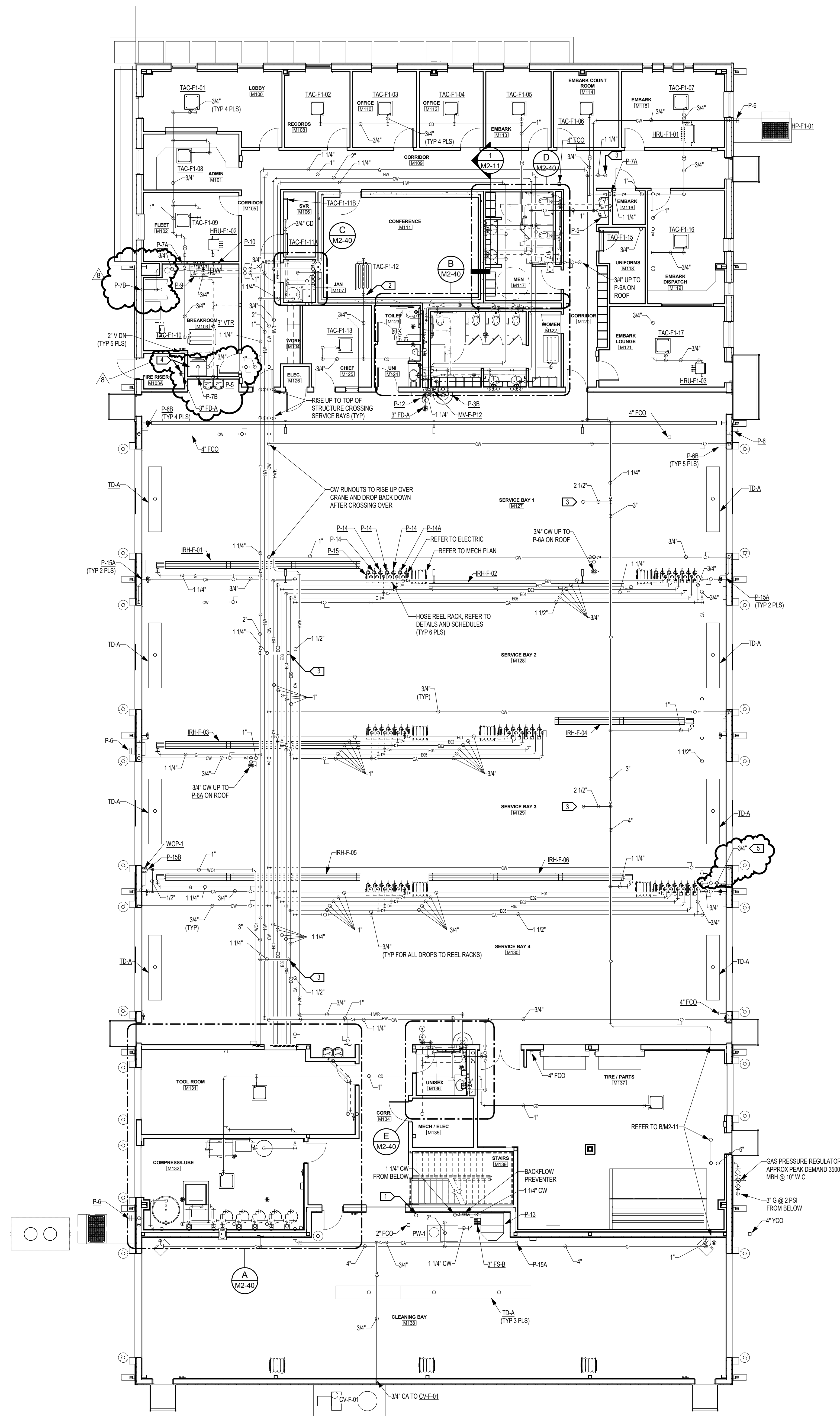
DATE

SIGNATURE

DATE

SIGNATURE

DATE



BASE BID
FLEET MAINTENANCE BUILDING
ABOVEFLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

GENERAL STORM SHELTER NOTES:

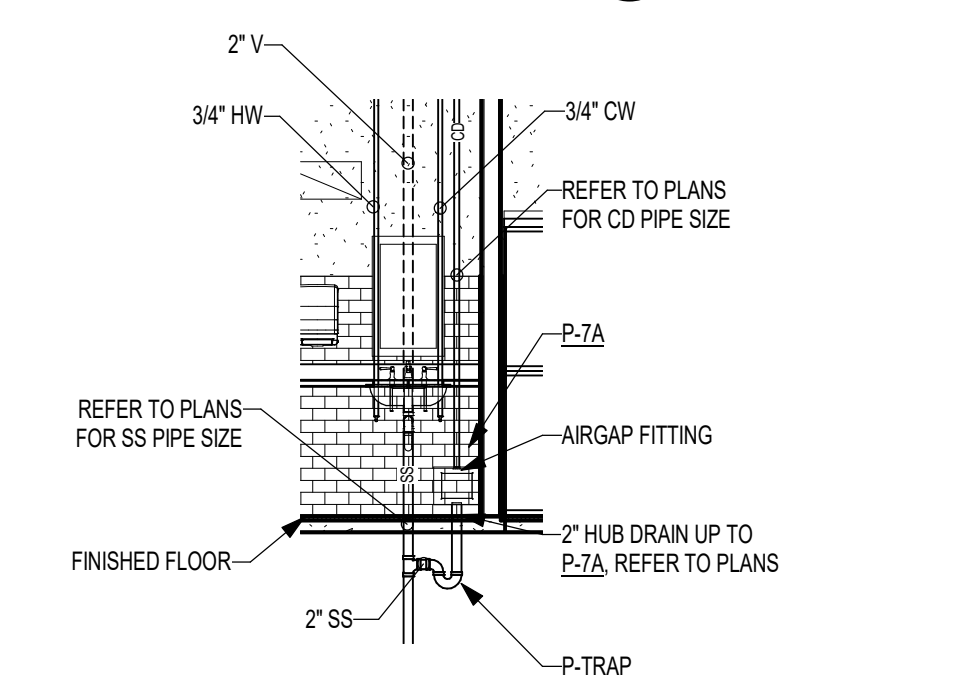
1. ANY PENETRATION EXCEEDING 3 1/2" SQUARE INCHES OR 2 1/8" DIAMETER INTO OR OUT OF STORM SHELTERS SHALL BE PROVIDED WITH FEMA AND ICC-500 APPROVED REINFORCING. REF: STRUCTURAL.
2. ANY PENETRATION OF STORM SHELTER WALLS SHALL HAVE A MINIMUM 2 HR FIRE RATING MAINTAINED.

CNG BAY NOTES:

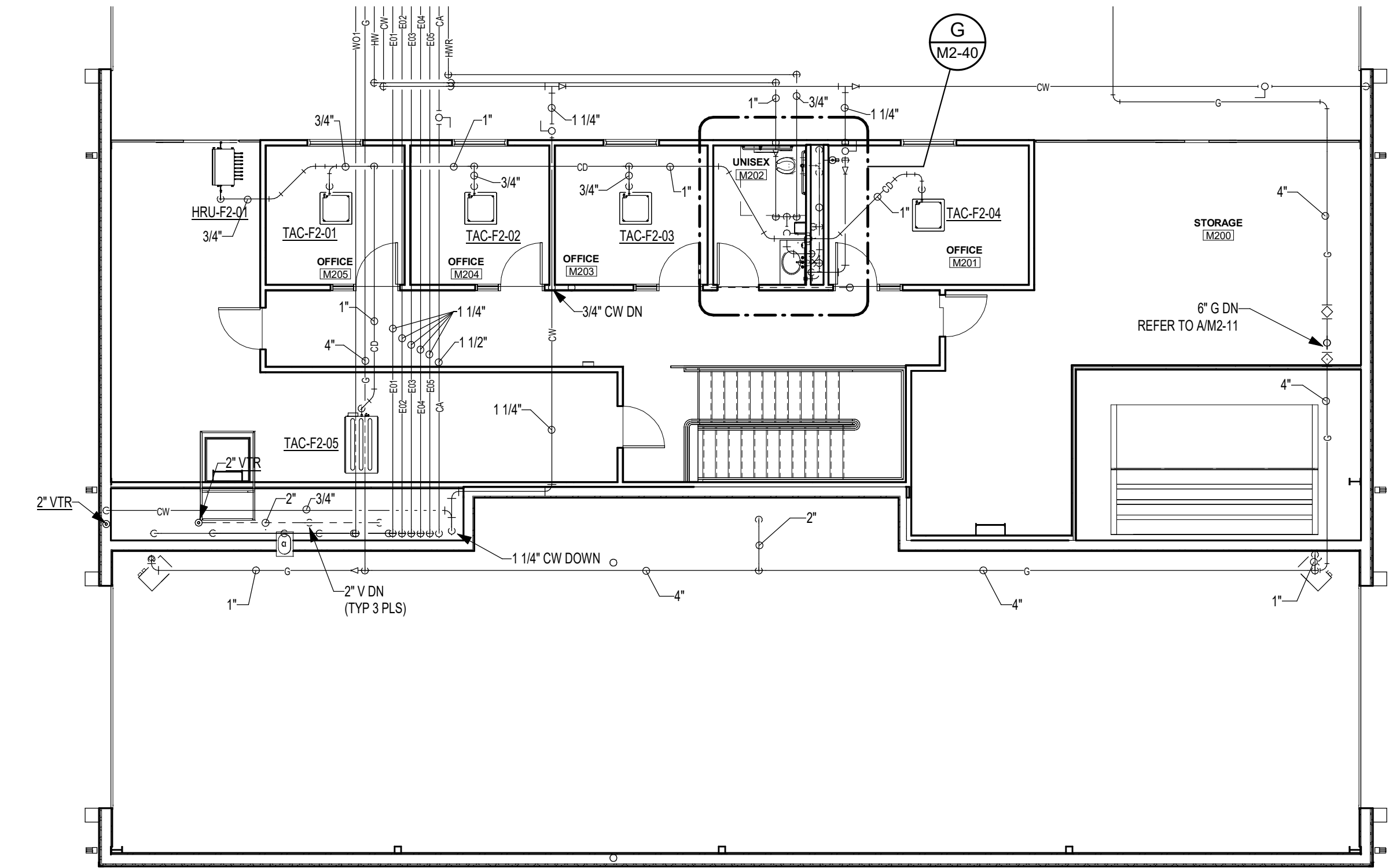
1. ALL PLUMBING FIXTURES LOCATED IN ROOMS M127, M128, M129, AND M130 SHALL HAVE ELECTRICAL ROUGH-IN MINIMUM OF 20" AFF.

KEYED NOTES:

1. 2" HUB DRAIN TO BE USED FOR PRESSURE WASHER WAND DURING FREEZE PROTECTION MODE.
2. PROVIDE FEMA 361/ICC-500 COMPLIANT REINFORCING FOR SAFE ROOM/TORNADO SHELTER PENETRATIONS. REFER TO STRUCTURAL.
3. GAS UP TO MAUS THROUGH BASE. TYPICAL ALL ROOF TOP MAUS.
4. ROUTE ICE MAKER DRAIN TO F.D.A. PROVIDE IN-DIRECT SECURE CONNECTION.
5. PROVIDE DEDICATED 3/4" COMPRESSED AIR LINE DOWN TO VEHICLE LIFT CONTROLLER. INSTALL IN ACCORDANCE WITH LIFT MANUFACTURERS RECOMMENDATIONS.



BASE BID
1 M2-11
TYP CONDENSATE WASHER BOX DETAIL
 SCALE: 1/4" = 1'-0"
 PLAN NORTH



BASE BID
B M2-11
FLEET MAINTENANCE BUILDING
ABOVEFLOOR PLUMBING MEZZANINE PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

GENERAL PIPING NOTES:

1. UNLESS OTHERWISE NOTED THE FOLLOWING NOTES SHALL APPLY TO ALL MECHANICAL SHEETS.
2. NEW CONSTRUCTION: IN THE NEW ADDITION, CEILING HEIGHTS ESTABLISHED ON THE DRAWINGS ARE TO BE MAINTAINED. NEW SPRINKLER, ELECTRICAL, PLUMBING AND/OR MECHANICAL PIPING AND EQUIPMENT SHALL BE COORDINATED TO MAINTAIN SPECIFIED CEILING HEIGHTS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE NECESSARY TRADES TO MAINTAIN CEILING HEIGHTS. IF CONFLICTS ARISE BETWEEN THE EXISTING STRUCTURE AND NEW CONSTRUCTION, THE CONTRACTOR WILL TAKE THE NECESSARY MEASURES (IE CORING BEAMS, REROUTING PIPING, ETC.) TO ENSURE THAT THE SPECIFIED CEILING HEIGHTS ARE MAINTAINED. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL CONFLICTS AND SUGGESTED SOLUTIONS BEFORE THE CONTRACTOR CORRECTS THE CONFLICT.
3. RENOVATION: IN THE EXISTING BUILDING, CEILING HEIGHTS ESTABLISHED ON THE DRAWINGS ARE TO BE MAINTAINED. NEW SPRINKLER, ELECTRICAL, PLUMBING AND/OR MECHANICAL PIPING AND EQUIPMENT SHALL BE COORDINATED TO MAINTAIN SPECIFIED CEILING HEIGHTS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE NECESSARY TRADES TO MAINTAIN CEILING HEIGHTS. IF CONFLICTS ARISE BETWEEN THE EXISTING STRUCTURE AND NEW CONSTRUCTION, THE CONTRACTOR WILL TAKE THE NECESSARY MEASURES (IE CORING BEAMS, REROUTING PIPING, ETC.) TO ENSURE THAT THE SPECIFIED CEILING HEIGHTS ARE MAINTAINED. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL CONFLICTS AND SUGGESTED SOLUTIONS BEFORE THE CONTRACTOR CORRECTS THE CONFLICT.
4. PROVIDE ACCESS PANELS IN WALLS OR SUSPENDED CEILINGS OTHER THAN LAY-IN TYPE FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. SUBMIT LOCATIONS OF ACCESS PANELS IN CEILINGS TO ARCHITECT FOR REVIEW AND COORDINATION.
5. FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
6. UNLESS NOTED OTHERWISE, ALL PIPING RUN-OUTS TO VAV TERMINAL BOXES, FAN COILS, AND UNIT HEATERS SHALL BE A MINIMUM OF 3/4\"/>

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REVISIONS

NO.	DATE	DESCRIPTION
8	8-20-2021	REVISION #8

GSB PROJECT NO.
191650

DRAWING TITLE
FLEET MAINTENANCE BUILDING ABOVEFLOOR PLUMBING PLAN

DATE
AUGUST 28, 2020

DRAWING NO.

M2-11

ALLEN CONSULTING INCORPORATED
 110 N. ARVONDALE DR., SUITE 100
 NORMAN, OK 73069
 PH: (405) 447-2892 FAX: (405) 447-2284

DSE Bidding and Estimating Form

Job: north base

Page # 6

Area: fleet revision #8

Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1			added total of 2 tv/power boxes						
2			added 3 GFI receipts in break room						
3			added 3 circuits to brek room						
4			added 1 data rough in lounge						
5									
6	2	e	hubell tv/power rough in boxes			215.00	430.00		
7	2	e	10' sticks of 3/4" emt for data			12.50	25.00		
8									
9	3	e	GFI's			15.00	45.00		
10	7.5	e	10' sticks of 3/4" emt for FN2A 21,23,25			12.50	93.75		
11	1	e	3/4" seal off			25.00	25.00		
12	525	e	75' x 7 of #12 thhn			0.25	131.25		
13	4	e	4sqr boxes			5.00	20.00		
14									
15	1	e	10' stick of 3/4" emt for data rough			12.50	12.50		
16									
17	11	e	11 hours 1 man labor	1	11.00				
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
Totals				1	11.00		782.50		0.00

Labor Hour Rate

60

Tax Rate

15.00%

Total Labor

660

Total Material

900

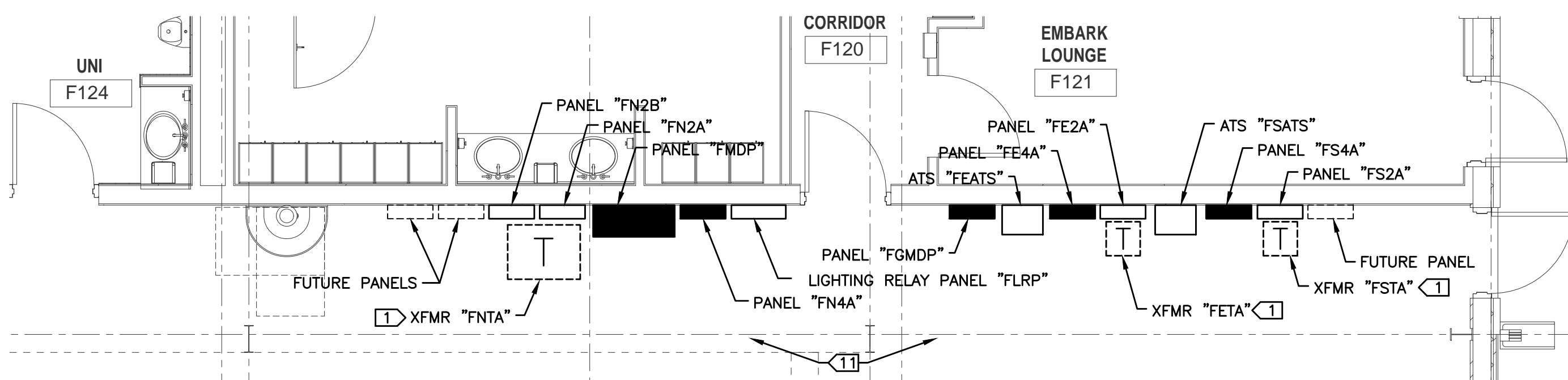
Total Opening

0

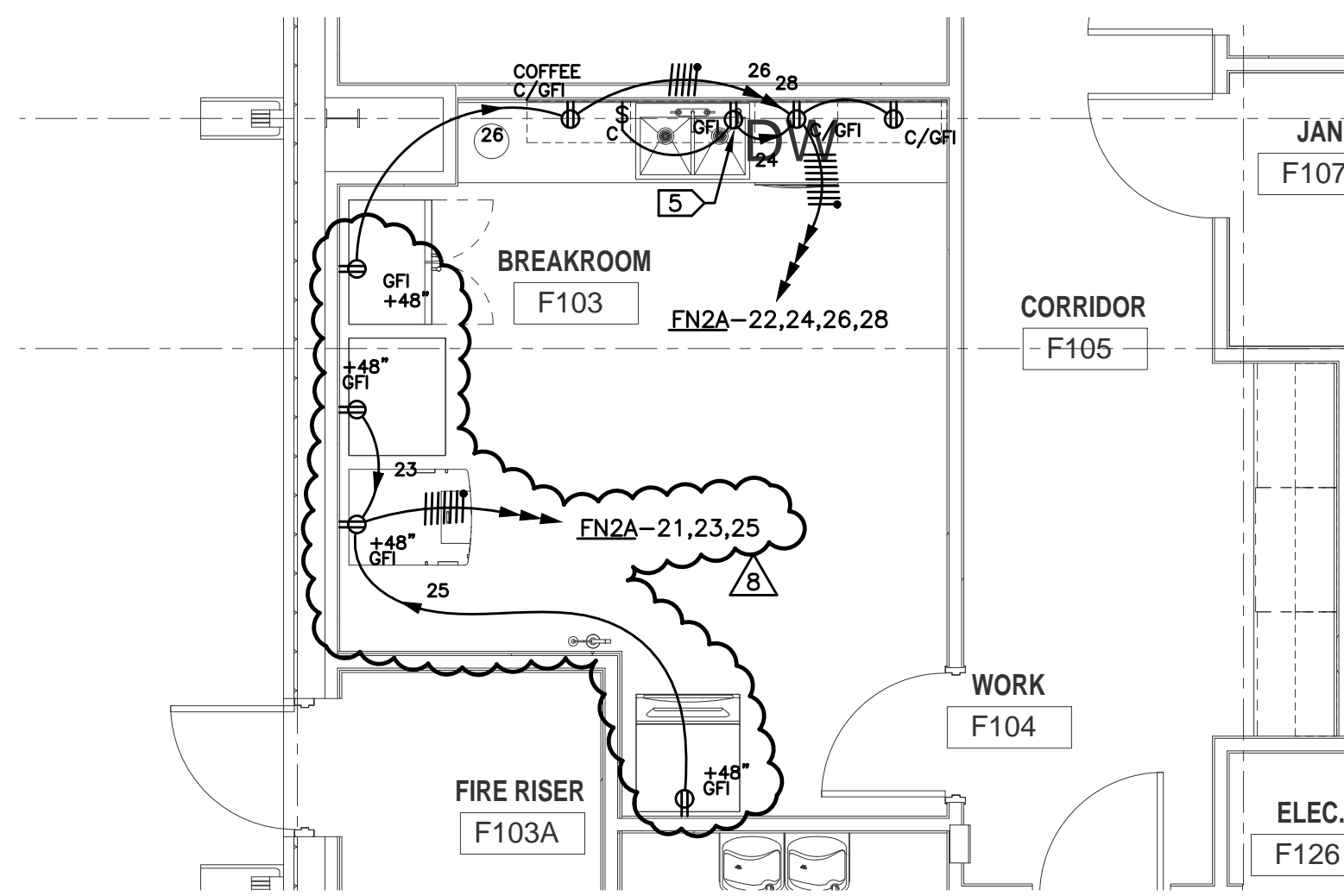
Total 1,560

Total Page 6

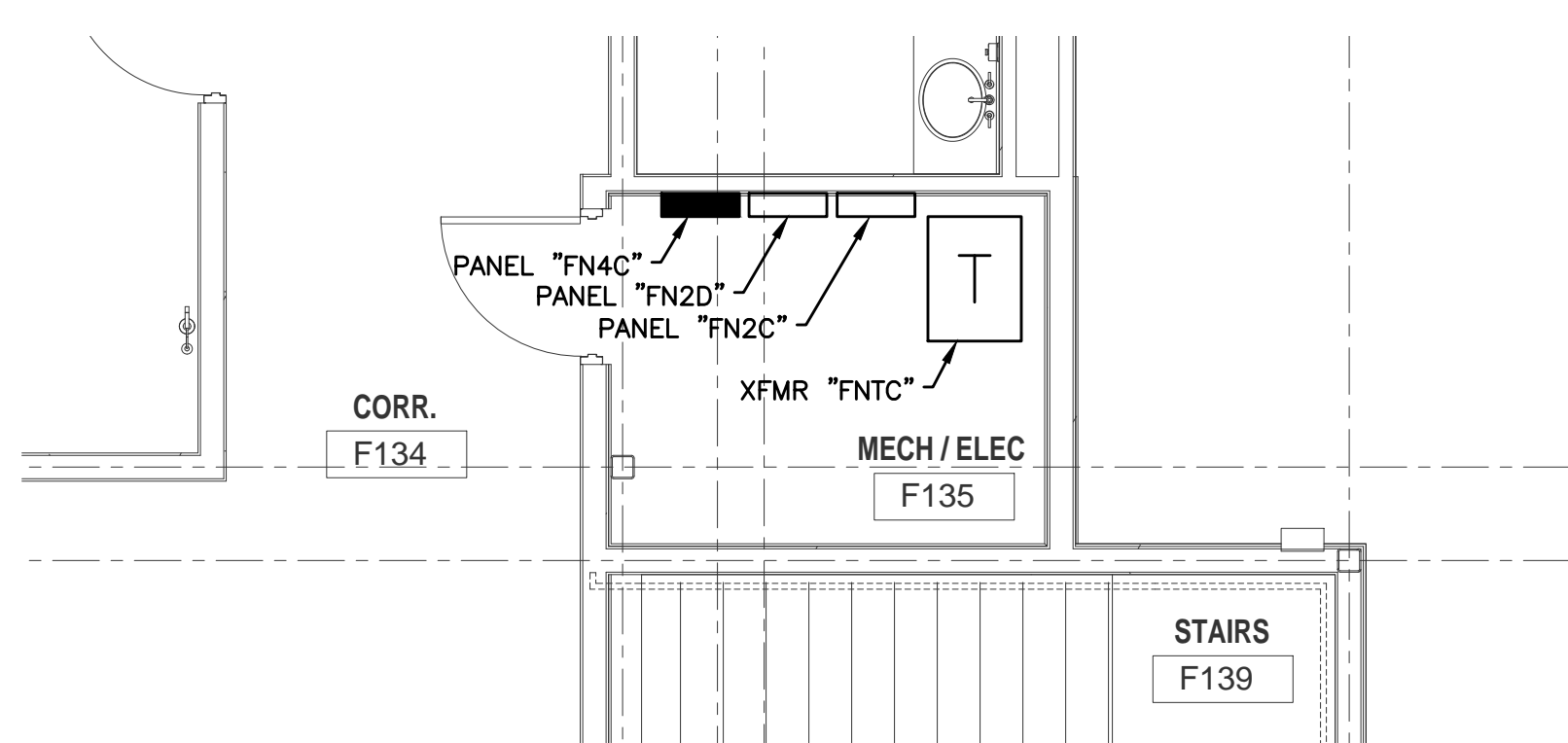
NOTE: INCLUDES APROX. 20'-0" TO VEHICLE LIFT CONTROLLER, INSTALLED IN ACCORDANCE WITH LIFT MANUFACTURERS RECOMMENDATIONS.



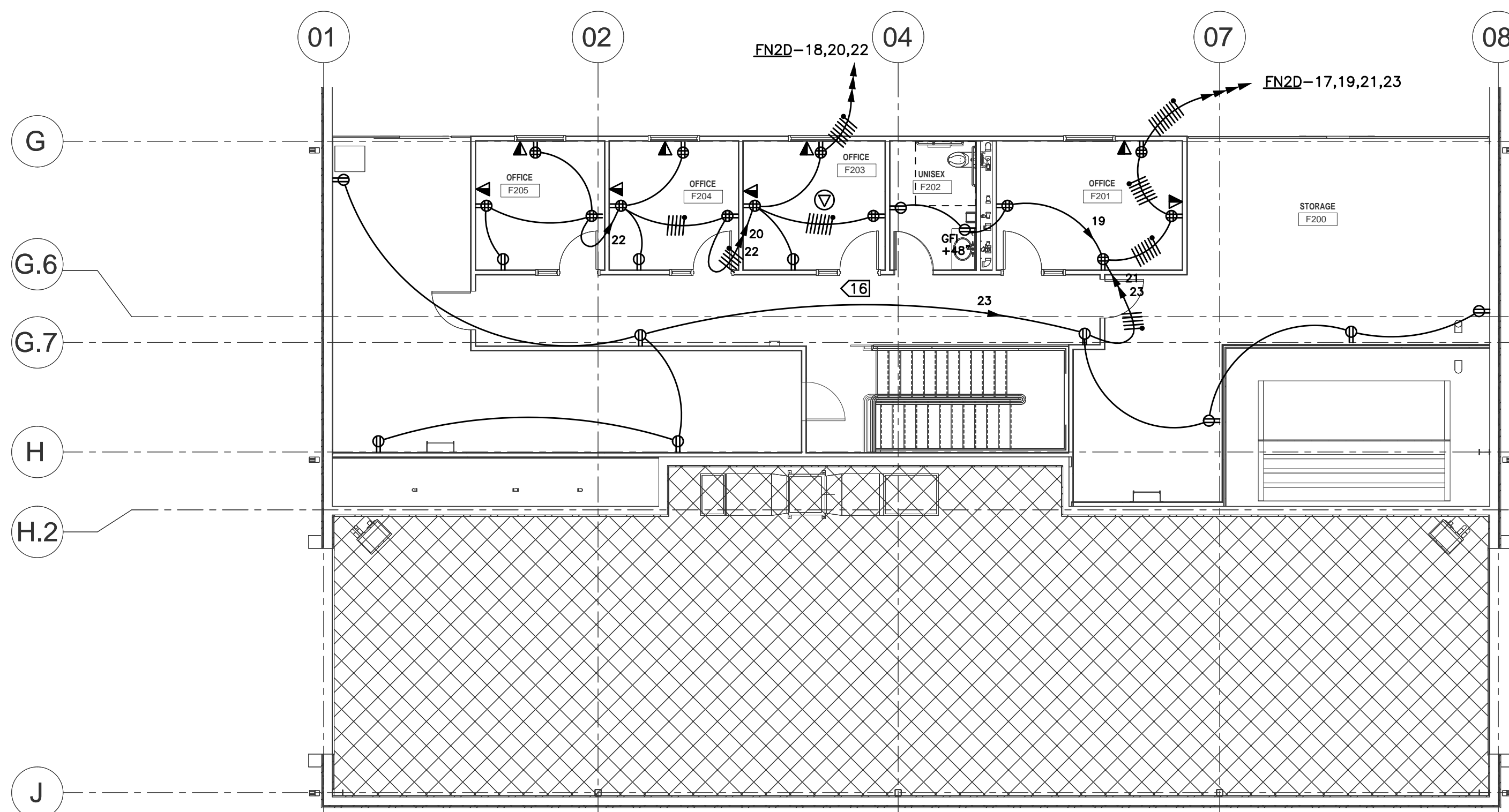
3 ENLARGED POWER DISTRIBUTION PLAN - FLEET
ES-01 1/8" = 1'-0"
PLAN NORTH



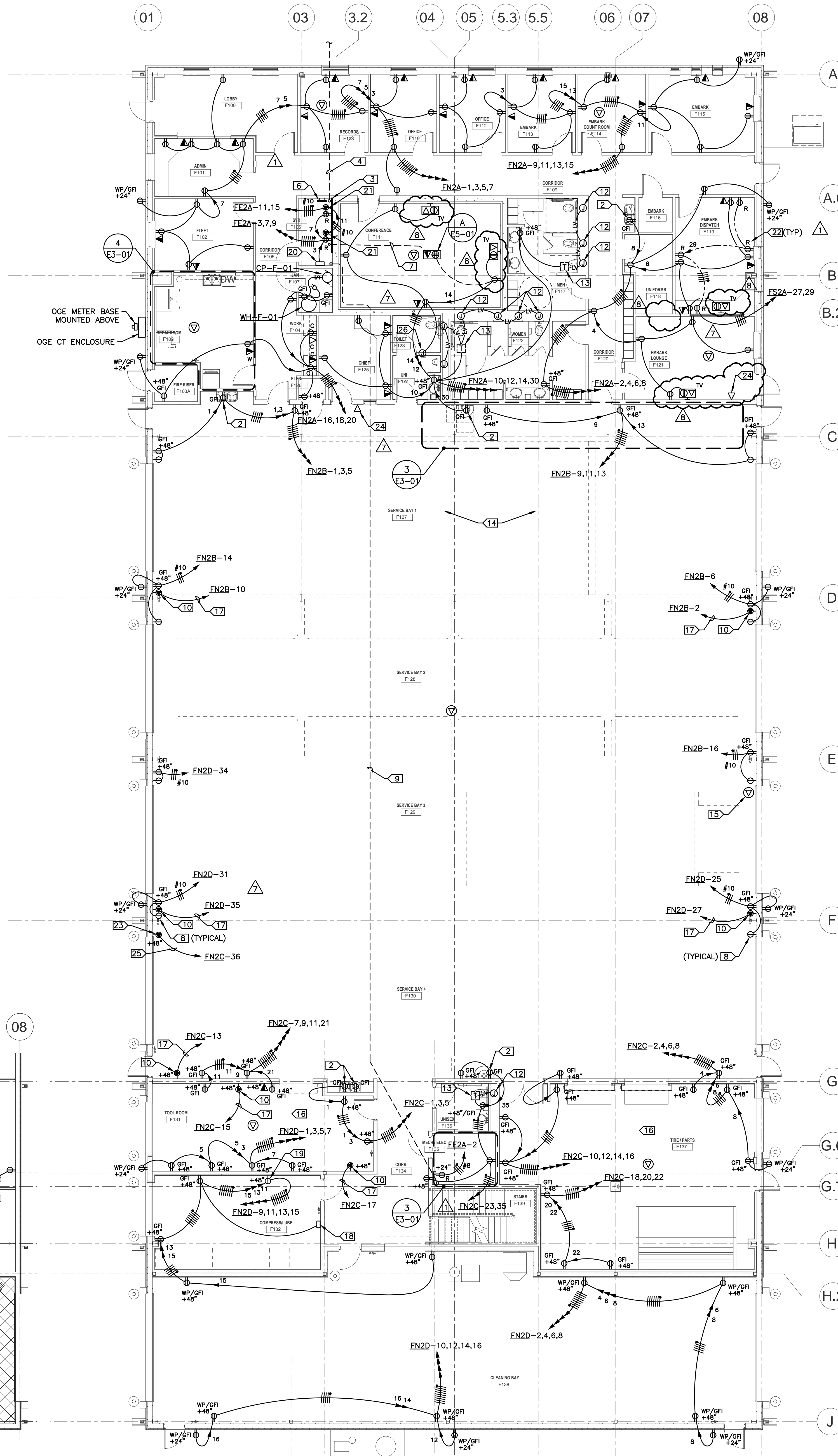
4 ENLARGED BREAK ROOM POWER PLAN - FLEET
ES-01 1/4" = 1'-0"
PLAN NORTH



5 ENLARGED ELEC ROOM POWER PLAN - FLEET
ES-01 1/4" = 1'-0"
PLAN NORTH



2 POWER PLAN - LEVEL TWO - FLEET MAINTENANCE
ES-01 1/8" = 1'-0"
PLAN NORTH



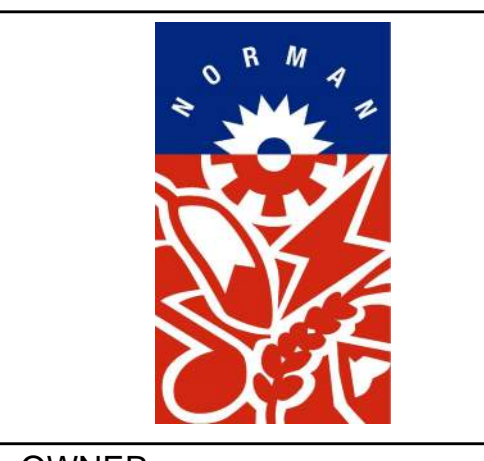
1 POWER PLAN - LEVEL ONE - FLEET MAINTENANCE
ES-01 1/8" = 1'-0"
PLAN NORTH

- GENERAL NOTES:**
- A. ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVING GASOLINE AND CNG VEHICLES.
 - B. SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.
 - C. THE CNG HAZARDOUS AREA REQUIREMENTS AT THE CEILING SHALL BE MET BY USE OF A VENTILATION SYSTEM TO PROVIDE THE REQUIRED AIR CHANGES PER HOUR AND ACCORDANCE WITH NEC TABLE 511.3(D). NO CNG HAZARDOUS AREA SHALL BE REQUIRED AT THE CEILING.
 - D. ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.
 - E. OFFICE AREA SHALL BE PROVIDED WITH POSITIVE PRESSURE HVAC AND SHALL NOT BE CLASSIFIED HAZARDOUS.
 - F. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.
 - G. HOMERUN CIRCUITS AS SHOWN, DO NOT COMBINE HOMERUNS.
 - H. CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY-IN CEILING ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATIONS.
 - I. COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECT.
 - J. 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.
 - K. CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.
 - L. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.
 - M. PROVIDE 120V GFCI DUPLEX RECEPTACLE AND PIGTAIL CONNECTED TO NEAREST RECEPTACLE CIRCUIT AT EACH TRAP PRIMER. RE: MECHANICAL DRAWINGS FOR LOCATIONS.
 - N. RE: CONVENTIONAL DRAWINGS FOR ACCESS CONTROL & CCTV CONDUITS AND ENCLOSURES TO BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL PROVIDE ALL CONDUIT AND POWER CIRCUITING REQUIRED BY THOSE DRAWINGS.

- KEYED NOTES:**
1. WALL MOUNTED TRANSFORMER. RE: DETAIL "A" SHEET E3-02.
 2. RECEPTACLE FOR PLUMBING FIXTURE. MOUNT BEHIND EQUIPMENT SHROUD. COORDINATE WITH EQUIPMENT INSTALLER. DO NOT MOUNT LOWER THAN 20" TO BOTTOM OF BOX.
 3. TELEPHONE TERMINAL BOARD "TTBF". PROVIDE 4'X8'X 3/4" FIRE RETARDANT PLYWOOD PAINTED WITH FIRE RETARDANT PAINT.
 4. (4) 4" PVC CONDUITS ROUTED 36" BFO FOR COMMUNICATIONS CABLING. STUB CONDUITS UP 4" AFF AT TELEPHONE TERMINAL BOARD "TTBF". RE: SHEET E1-01 FOR CONTINUATION.
 5. SPLIT DUPLEX RECEPTACLE (TOP HALF SWITCHED) AND COUNTER MOUNTED SWITCH FOR IN-SINK GARBAGE DISPOSAL AND DISHWASHER. RECEPTACLE MOUNTED BELOW COUNTER. COORDINATE SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH MILLWORK.
 6. GROUND BAR MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH OWNER. RE: ONE-LINE DIAGRAM AND GROUND BAR DETAIL "B", SHEET E5-01.
 7. STUB 1.25" CONDUIT WITH PULL STRING UP AT TERMINAL BOARD FOR DATA CABLING.
 8. PROVIDE NEMA 5-15R SIMPLEX RECEPTACLE MOUNTED ADJACENT TO DOCK LIGHT RE: SHEET E2-01. FIXTURE IS PROVIDED WITH PIGTAIL.
 9. (1) 4" PVC CONDUIT ROUTED 24" BELOW SLAB. STUB-UP IN CORNER OF EACH ROOM FOR COMMUNICATIONS CABLING.
 10. NEMA 14-50R RECEPTACLE.
 11. ALL CONDUIT STUB-UPS IN THE HAZARDOUS AREA SHALL COMPLY WITH NEC REQUIREMENTS. PROVIDE PVC COATED RGSC CONDUIT STUBBED AT LEAST 19" AFF SO THERE ARE NO FITTINGS WITHIN THE HAZARDOUS AREA.
 12. PROVIDE JUNCTION BOX FOR AUTOMATIC TOILET/URINAL FLUSH VALVE. COORDINATE EXACT LOCATION WITH PLUMBER.
 13. LOW VOLTAGE TRANSFORMER FOR FLUSH VALVES MOUNTED ABOVE CEILING.
 14. CONDUIT ROUTED OVERHEAD IN CRANE BAY SHALL BE ROUTED 28" AFF OR HIGHER.
 15. LOCATED AT ROOF DECK FOR ROOF MOUNTED VIDEO SYSTEM ANTENNA. COORDINATE WITH OWNER'S SYSTEM VENDOR.
 16. ROUTE ALL COMMUNICATION OUTLET PATHWAYS IN THE SOUTH PORTION OF THE BUILDING TO S.E. CORNER OF MECH/ELEC F135 IN CONDUIT. OWNER MAY PLACE AN IDF IN THIS LOCATION.
 17. 3 #6, 1 #10 GND., 1".
 18. FLUID MANAGEMENT SYSTEM. MAKE ALL REQUIRED ELECTRICAL CONNECTIONS TO SENSORS AND ALARMS. RE: MECHANICAL DRAWINGS.
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 20. BAS CONTROL PANEL(S). COORDINATE EXACT LOCATION WITH TEMPERATURE CONTROLS CONTRACTOR.
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 24. DATA OUTLET FOR TIMELOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.
 25. 3 #8, 1 #10 GND., 3/4".
 26. JUNCTION BOX FOR OLA CONTROLLER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH MECHANICAL.

PARTIAL LEGEND:

RECESSED MULTI-SERVICE TV BOX WITH DUPLEX RECEPTACLE AND CATV COAX CONNECTOR. STUB 3/4" CONDUIT WITH BUSHED END ABOVE AN ACCESSIBLE CEILING FOR COAX CABLE. COORDINATE EXACT ROUGH-IN LOCATION AND HEIGHT WITH ARCHITECT. HUBBELL #NSAV62M/NSAV6C/NSOKP/NSF70W.



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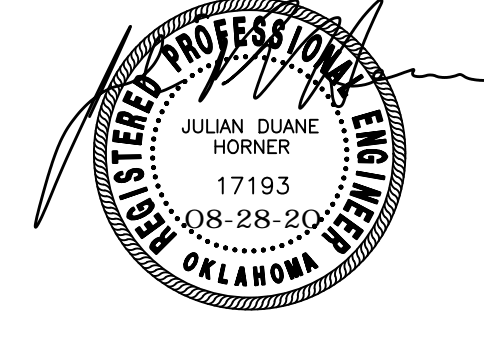
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REVISIONS

NO.	DATE	DESCRIPTION
09/18/20	ADD. NO. 2	
07/23/21	FORKLIFT & TIMELOCKS	
08/20/21	VENDING MACHINES & NYS	

GSB PROJECT NO.
191650

DRAWING TITLE
POWER PLAN - FLEET
MAINTENANCE

DATE
08/28/2020

DRAWING NO.
E3-01



Homer Associates Engineers, Inc.
1306 Commerce St., Norman, OK 73071
Certificate of Authorization No. CA 3521, Expires 03/30/2021
info@haenric.com Ph (405) 801-2528 Fax (405) 801-2529
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Architectural Millwork Bid



ALPHA OMEGA WOODWORKS, LLC

1912 Atchison Drive
Norman, OK 73069
(405) 364-0022 (405) 360-4131 Fax
Member of Architectural Woodwork Institute (AWI.)

Job Name: North Base Complex
Norman, Oklahoma
Plans: GSB INC
8/28/20

Date: September 9, 2021

Revision 8

Addenda: 2

We submit a bid for **Custom Grade**, Millwork, to include:

Revision 8: Fleet Maintenance Building

Reduce Solid Surface Tops and Supports @ Chief M125

Increase HPL Clad Base Cabinets with Solid Surface Top, HPL Clad Upper @ Breakroom M103

Add Solid Surface Tops and Supports @ Embark Dispatch M119

Excluded in this bid is the following:

- *Any other* casework or millwork or trim

Add for Revision 8, +\$ 3,810.00

Robert Trammel
PJ Pinkerton



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www.acimpe.com

ELECTRICAL ENGINEER
HORNOR ASSOCIATES ENGINEERS
1306 COMMERCE DRIVE
NORMAN, OKLAHOMA 73071
(405) 801-2528
www.hainc.com

LANDSCAPE ARCHITECT
PLANNING DESIGN GROUP
5314 SOUTH YALE AVE. - STE. 510
TULSA, OKLAHOMA 74135
(918) 628-1255
www.planningdesigngroup.com

CITY OF NORMAN
NORTH BASE COMPLEX - PHASE 1
1310-1380 DA VINCI STREET
NORMAN, OK

gsb 3555 NW 58th Street
Suite 700W
Oklahoma City, OK 73112
T: 405.848.9549
F: 405.848.9783
www.gsb-inc.com

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REVISIONS		
NO.	DATE	DESCRIPTION
7	7/23/2021	FORKLIFT, TIMECLOCK, DRUG TESTING & DOOR HEIGHT
8	8/20/2021	Revision 8

GSB PROJECT NO.
191650

DRAWING TITLE
FLOOR PLAN - FLEET MAINTENANCE

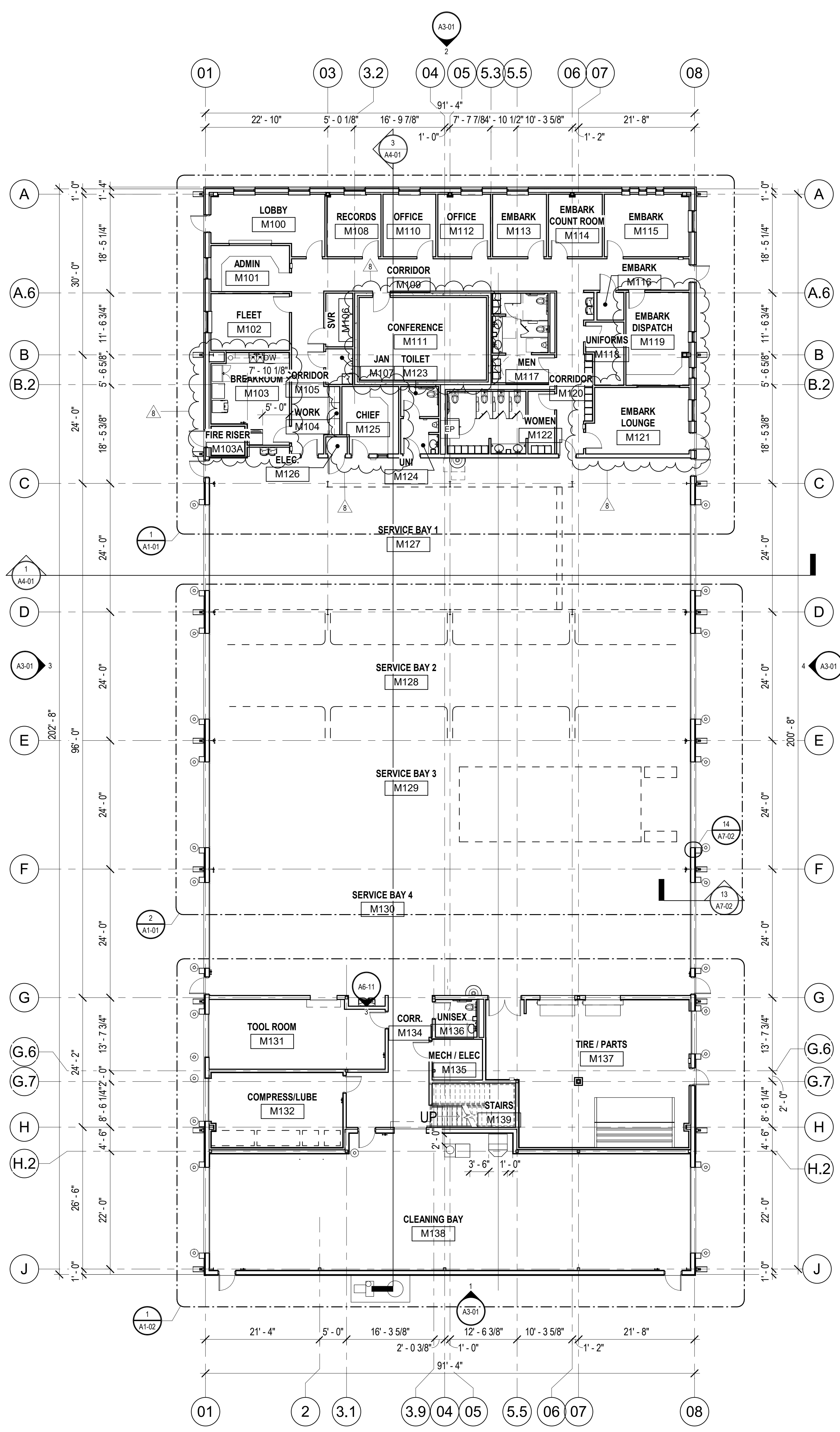
DATE
8/28/2020

DRAWING NO.
A1-00

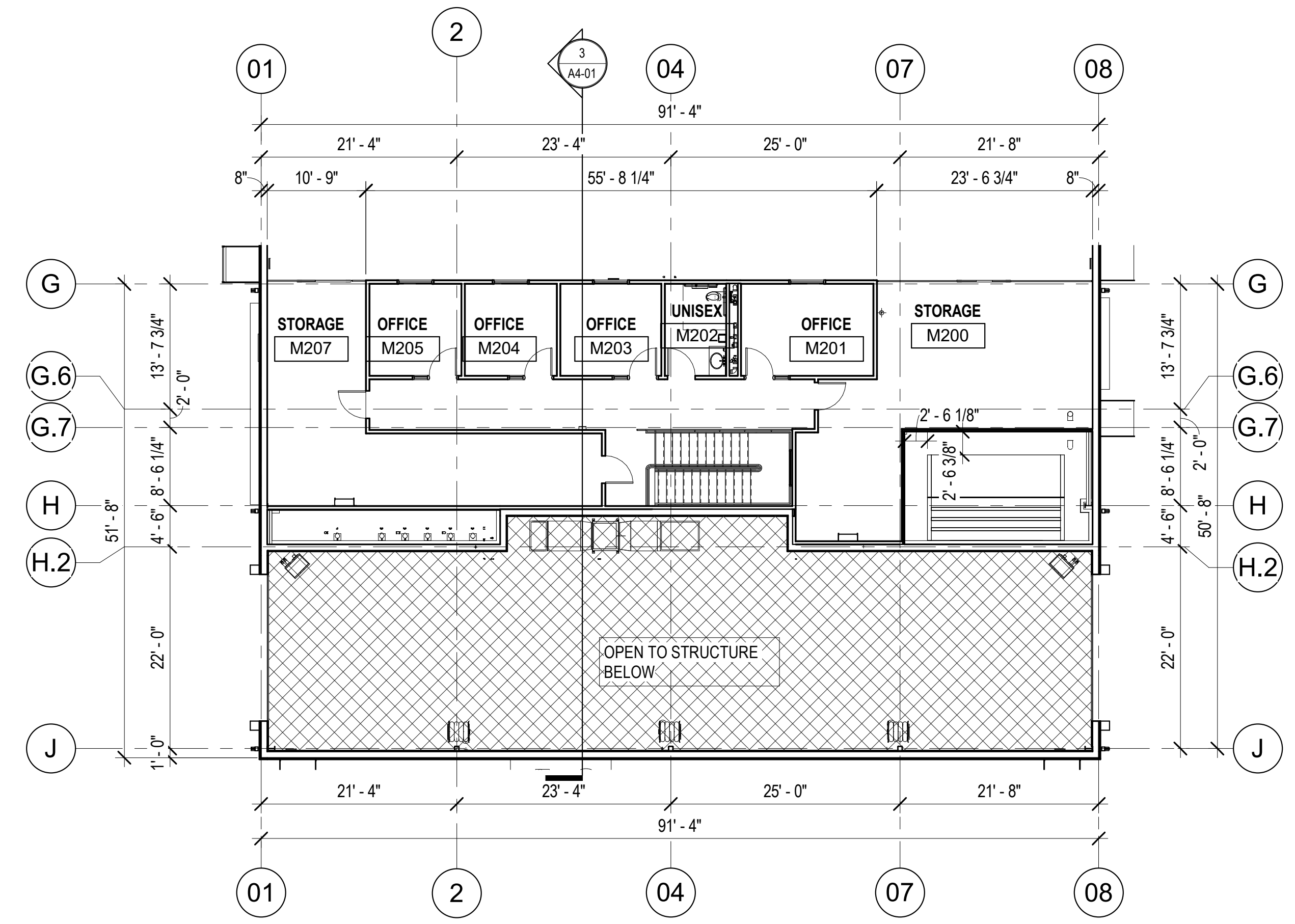
FLOOR PLAN LEGEND		
ROOM REFERENCE	ROOM NAME	ROOM NAME
	101	ROOM NUMBER
DOOR NUMBER (A7-01)	101	
WINDOW NUMBER (A7-01)	11	
PARTITION TYPE (A6-00)	S4	

PARTITION TYPE LEGEND	
BASIC MATERIAL:	
C	CONCRETE
M	MASONRY (CMU)
S	STUD
BASIC SIZE:	
0	7/8" FURRING CHANNEL
1	5/8" STUD
2	2 1/2" STUD
3	3 5/8" STUD
4	4" CONCRETE, MASONRY OR STUD
6	6" CONCRETE, MASONRY OR STUD
8	8" CONCRETE, MASONRY OR STUD
APPLIED LAYERS:	
A	1 LAYER 5/8" GYPSUM BOARD
B	2 LAYERS 5/8" GYPSUM BOARD
C	1 LAYERS 1/2" GYPSUM BOARD
D	2 LAYERS 1/2" GYPSUM BOARD
E	RESERVED
F	1 LAYER 5/8" CEMENTITIOUS BACKER BOARD
G	1 LAYER 1/2" CEMENTITIOUS BACKER BOARD
H	1 LAYER 5/8" MOISTURE RESISTANT GYPSUM BOARD
J	1 LAYER 1/2" MOISTURE RESISTANT GYPSUM BOARD
K	SHAFTWALL CONSTRUCTION
PARTITION TYPE SYMBOL	
BASIC MATERIAL	
BASIC SIZE	
APPLIED LAYERS CODE	
MODIFYING CONDITIONS CODE	
S3A.1	1 LETTER = LAYER ON ONE SIDE
S3AA.1	2 LETTERS = LAYER ON EACH SIDE
MODIFYING CONDITIONS:	
1	4" SOUND ATTENUATION BLANKETS IN STUD CAVITIES
2	USE 5/8" TYPE "X" GYPSUM BOARD

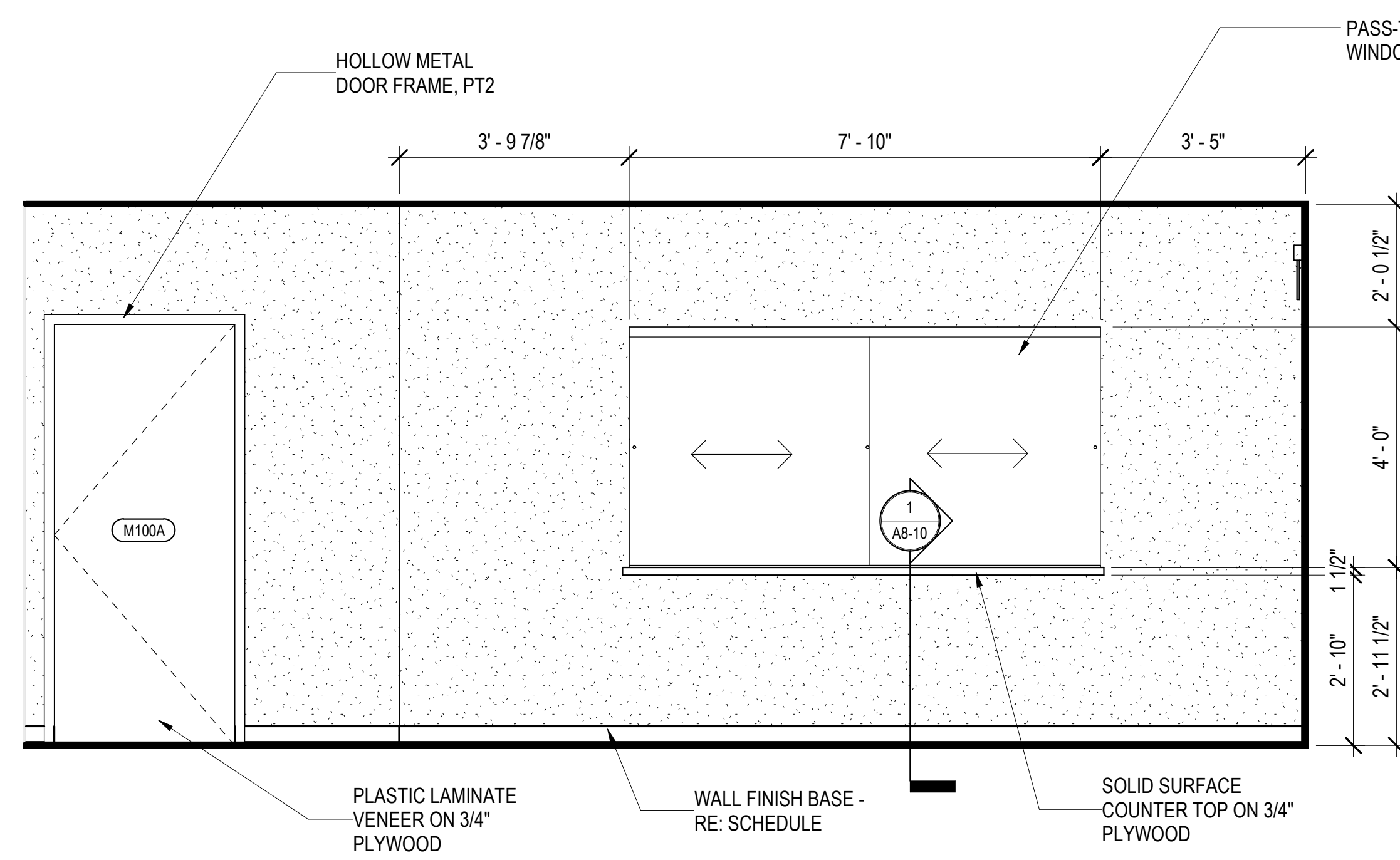
- GENERAL NOTE:
- FURNITURE IS NOT IN CONTRACT. INDICATED FOR ELECTRICAL AND AV CONNECTIONS
 - REFER TO A2 (ENLARGED FLOOR PLANS) FOR INTERIOR DIMENSIONS.
 - PROVIDE ISIMET DLA SERIES WATER CONTROLLER FOR DRUG TESTING LAB FOR SINGLE RESTROOM USE. CONTROLLER TO BE MOUNTED TO WALL, FACING ROOM UNI #M124. CONTROLLER TO BE MOUNTED 48" AFF. PROVIDE FACTORY SOLENOID VALVE ASSEMBLY, LOCATED ABOVE LAY-IN CEILING IN ROOM TOILET #M123.
 - RECEPTACLE FOR FORKLIFT. NEMA 15-50R.
 - DATA OUTLET FOR TIMECLOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.



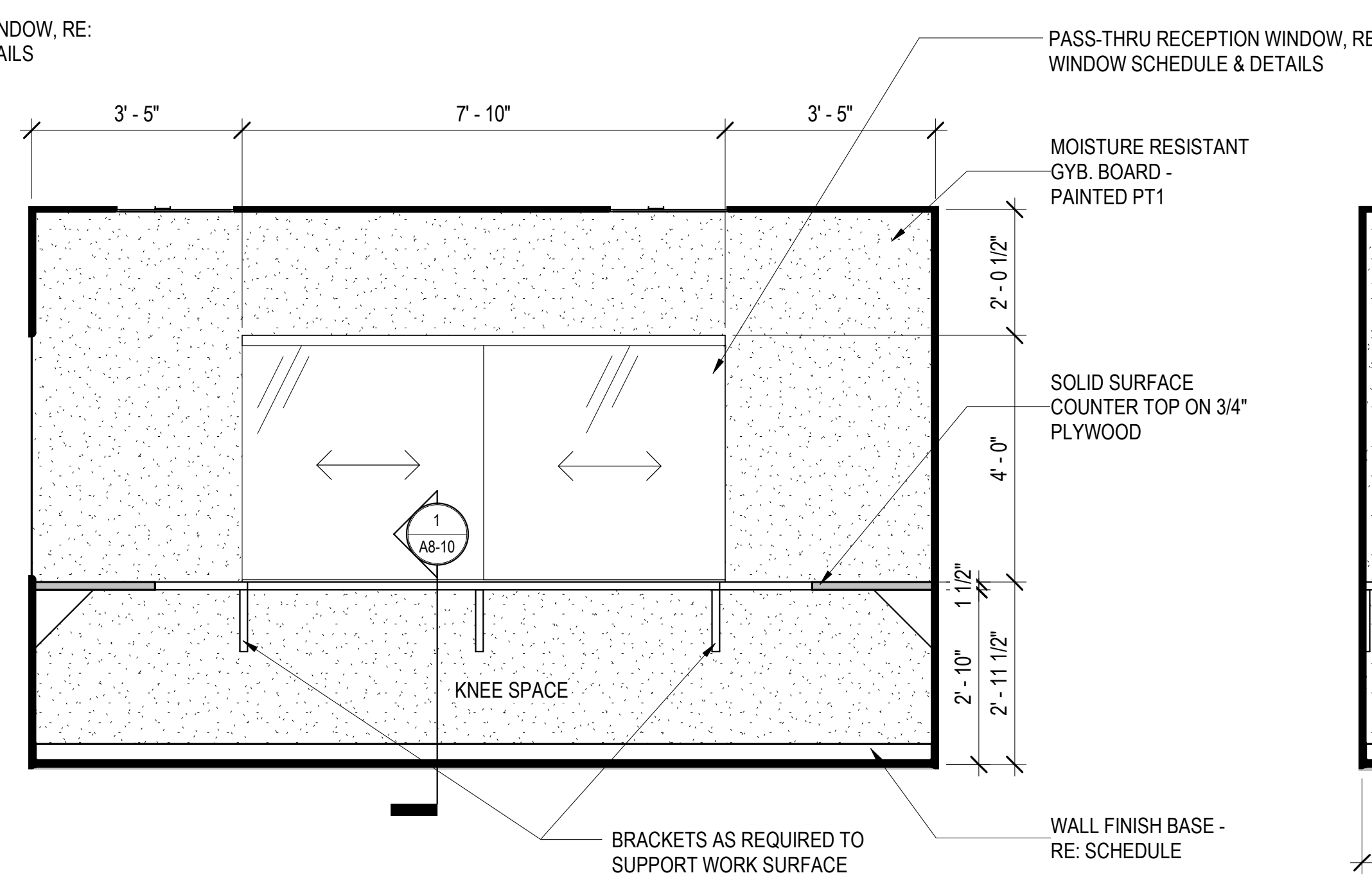
1 FLOOR PLAN - LEVEL ONE - FLEET MAINTENANCE
A1-00 3/32" = 1'-0"



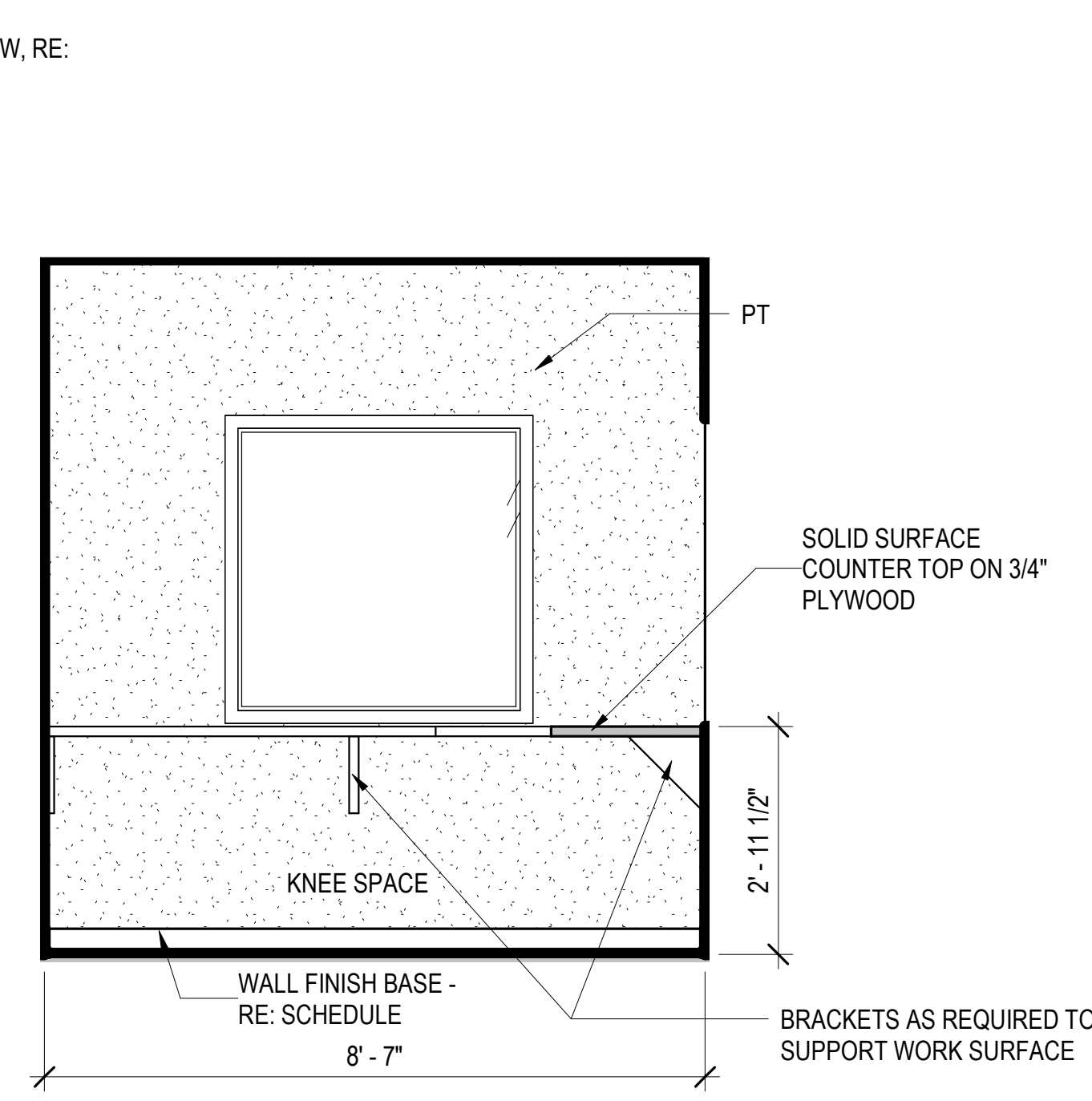
2 FLOOR PLAN - LEVEL TWO - FLEET MAINTENANCE
A1-00 3/32" = 1'-0"



1 INTERIOR ELEVATION - LOBBY M100
A6-10 1/2" = 1'-0"



2 INTERIOR ELEVATIONS - ADMIN - NORTH
A6-10 1/2" = 1'-0"



3 INTERIOR ELEVATION - ADMIN - WEST
A6-10 1/2" = 1'-0"

MATERIAL ABBREVIATIONS

- ACT - ACOUSTICAL CEILING TILES
- EP - EPOXY
- FRP - FIBERGLASS REINFORCED PANEL
- GL - GLASS
- LAM - LAMINATE
- LVT - LUXURY VINYL TILE
- MT - LINER METAL BUILDING PANEL
- MR - MIRROR
- NA - NOT APPLICABLE
- OTS - OPEN TO STRUCTURE
- PLY - PLYWOOD DECK
- PT - PAINT
- RB - RESILIENT BASE
- RTR - RESILIENT TREADS / RISERS
- SC - SEALED CONCRETE
- SS - STAINED & SEALED CONCRETE
- SF - SPECIAL FINISH
- SS - SOLID SURFACE
- TL - TILE

CITY OF NORMAN
201 A WEST GRAY STREET
NORMAN, OKLAHOMA 73069
(405) 366-5406
www.NormanOK.gov

ARCHITECT
GSB, INC.
3555 NW 58th Street, Suite 700W
Oklahoma City, OK 73112
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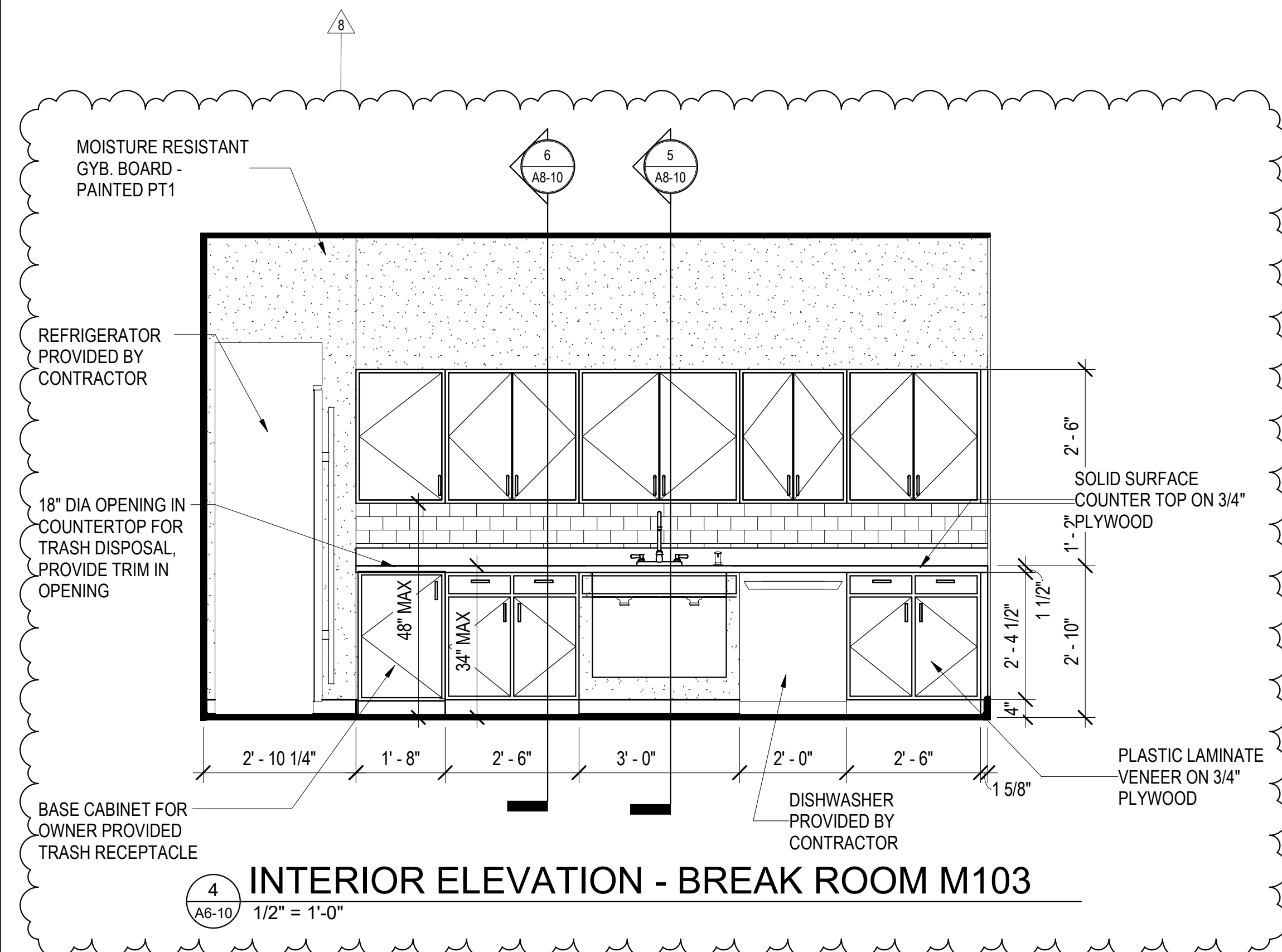
CIVIL ENGINEER
JOHNSON & ASSOCIATES
1 EAST SHERIDAN AVE. - STE. 200
OKLAHOMA CITY, OKLAHOMA 73104
(405) 235-8075
www.jakc.com

STRUCTURAL ENGINEER
WALLACE ENGINEERING
410 NORTH WALNUT AVE. - STE. 200
OKLAHOMA CITY, OK 73104
(405) 228-5858
www.wallacesc.com

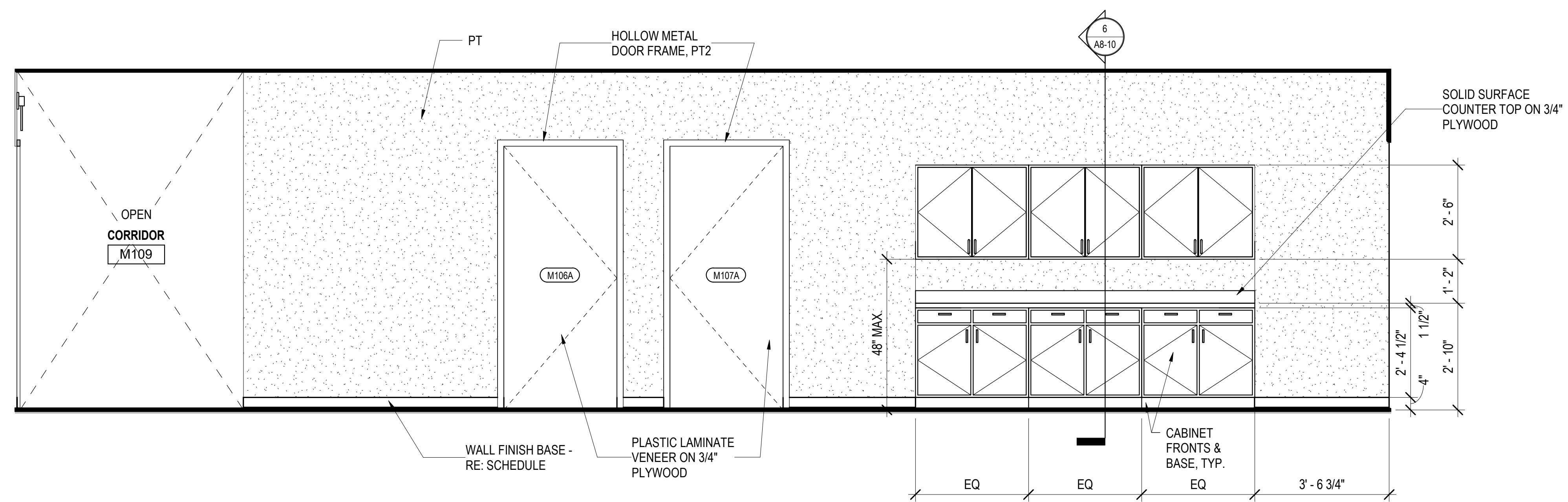
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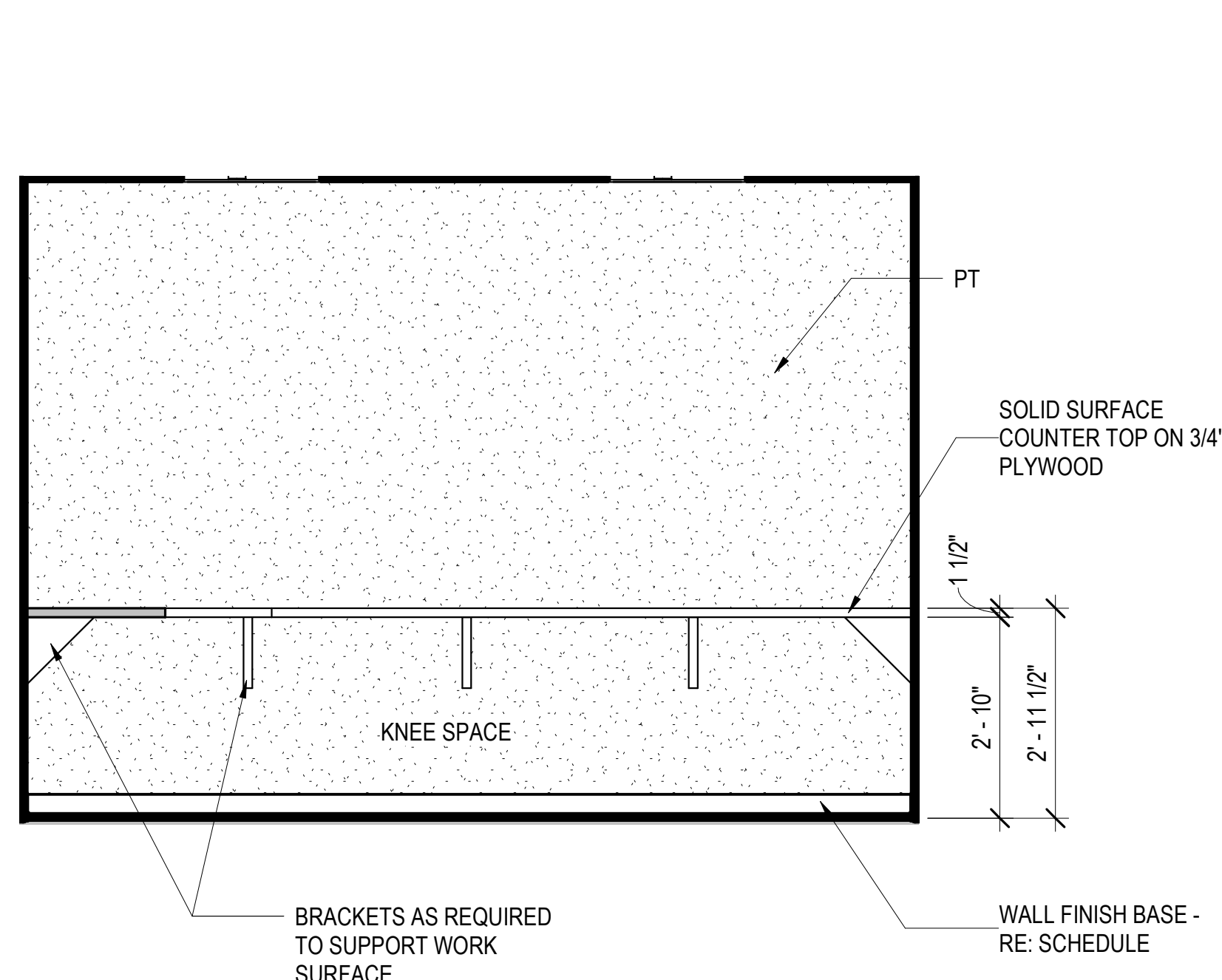
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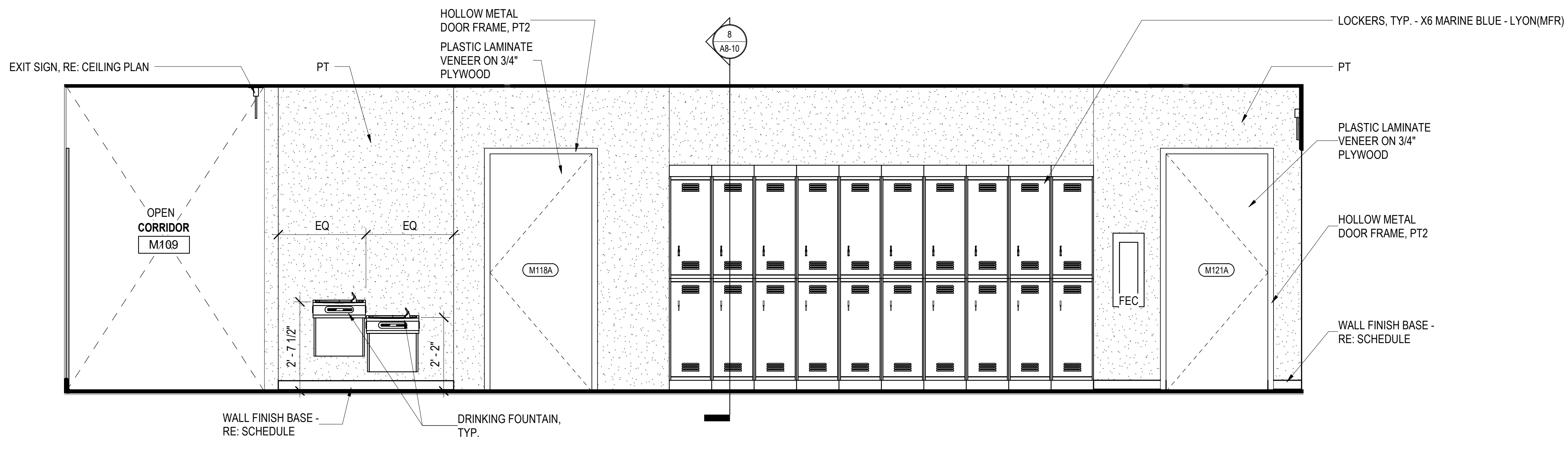
4 INTERIOR ELEVATION - BREAK ROOM M103
A6-10 1/2" = 1'-0"



5 INTERIOR ELEVATION - CORRIDOR M105
A6-10 1/2" = 1'-0"



6 INTERIOR ELEVATION - CHIEF M125
A6-10 1/2" = 1'-0"



7 INTERIOR ELEVATION - CORRIDOR M120
A6-10 1/2" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION
3	10/21/2020	Revision 3
8	8/20/2021	Revision 8

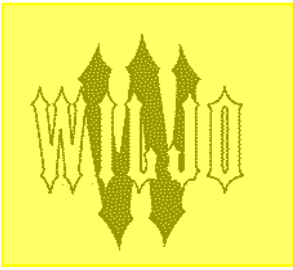
GSB PROJECT NO.
191650

DRAWING TITLE
INTERIOR ELEVATIONS -
FLEET MAINTENANCE

DATE
8/28/2020

DRAWING NO.

A6-10



WILJO INTERIORS

109 NE 38th Street
Oklahoma City, OK 73105
Phone: 405-792-7979
Fax: 405-792-7980
www.wiljointeriors.com

TO: Phillip Gunderson Flintco	JOB: City of Norman- North Base Complex
DATE: 09/07/21	PLAN DATE:
ADDENDUMS: RFI #33	VOID PRICE AFTER: 30 Days

SCOPE:	AMOUNT
08/30/21 - Removed a column to meet a requested dimension in room M103.	\$583
EXCLUSIONS: Overtime or nightwork; MEP; sealing of MEP penetrations; finished wood; millwork; provide or install of doors or door hardware; provide door frames; provide or install of any aluminum doors, door frames or window frames; provide or install of RR accessories; install of fire extinguisher cabinets; mullion caps; glazing; tape & bed; paint; EIFS or stucco; texture; flooring; transition strips; wall tile; blown-in insulation; engineering; any work not mentioned in scope above.	
TOTAL:	\$583

Respectfully Submitted,

Frank Snolis
WILJO INTERIORS, INC.



OWNER
CITY OF NORMAN, OKLAHOMA
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REVISIONS

NO.	DATE	DESCRIPTION
7	7/23/2021	FORKLIFT, TIMECLOCK, DRUG TESTING & DOOR HEIGHT
8	8/20/2021	Revision 8

GSB PROJECT NO.
191650

DRAWING TITLE
FLOOR PLAN - FLEET MAINTENANCE

DATE
8/28/2020

DRAWING NO.
A1-00

FLOOR PLAN LEGEND

ROOM REFERENCE	ROOM NAME	ROOM NAME
101	ROOM NUMBER	ROOM NUMBER

DOOR NUMBER (A7-01)	101
WINDOW NUMBER (A7-01)	11
PARTITION TYPE (A6-00)	S4

PARTITION TYPE LEGEND

BASIC MATERIAL:
C CONCRETE
M MASONRY (CMU)
S STUD

BASIC SIZE:
0 7/8" FURRING CHANNEL
1 5/8" STUD
2 2 1/2" STUD
3 3 5/8" STUD
4 4" CONCRETE, MASONRY OR STUD
5 6" CONCRETE, MASONRY OR STUD
6 8" CONCRETE, MASONRY OR STUD

APPLIED LAYERS:
A 1 LAYER 5/8" GYPSUM BOARD
B 2 LAYERS 5/8" GYPSUM BOARD
C 1 LAYERS 1/2" GYPSUM BOARD
D 2 LAYERS 1/2" GYPSUM BOARD
E RESERVED
F 1 LAYER 5/8" CEMENTITIOUS BACKER BOARD
G 1 LAYER 1/2" CEMENTITIOUS BACKER BOARD
H 1 LAYER 5/8" MOISTURE RESISTANT GYPSUM BOARD
J 1 LAYER 1/2" MOISTURE RESISTANT GYPSUM BOARD
K SHAFTWALL CONSTRUCTION

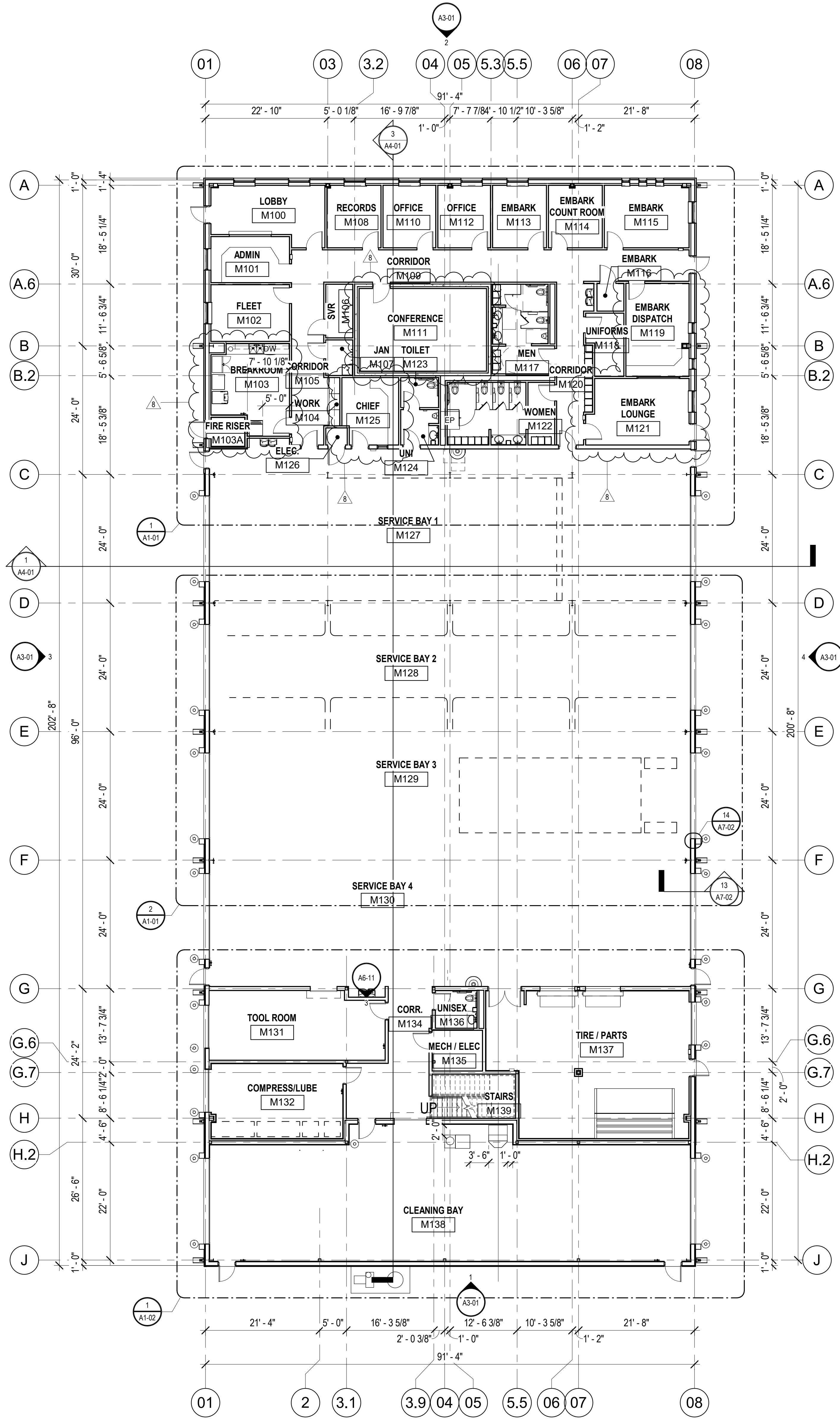
PARTITION TYPE SYMBOL

S3A.1

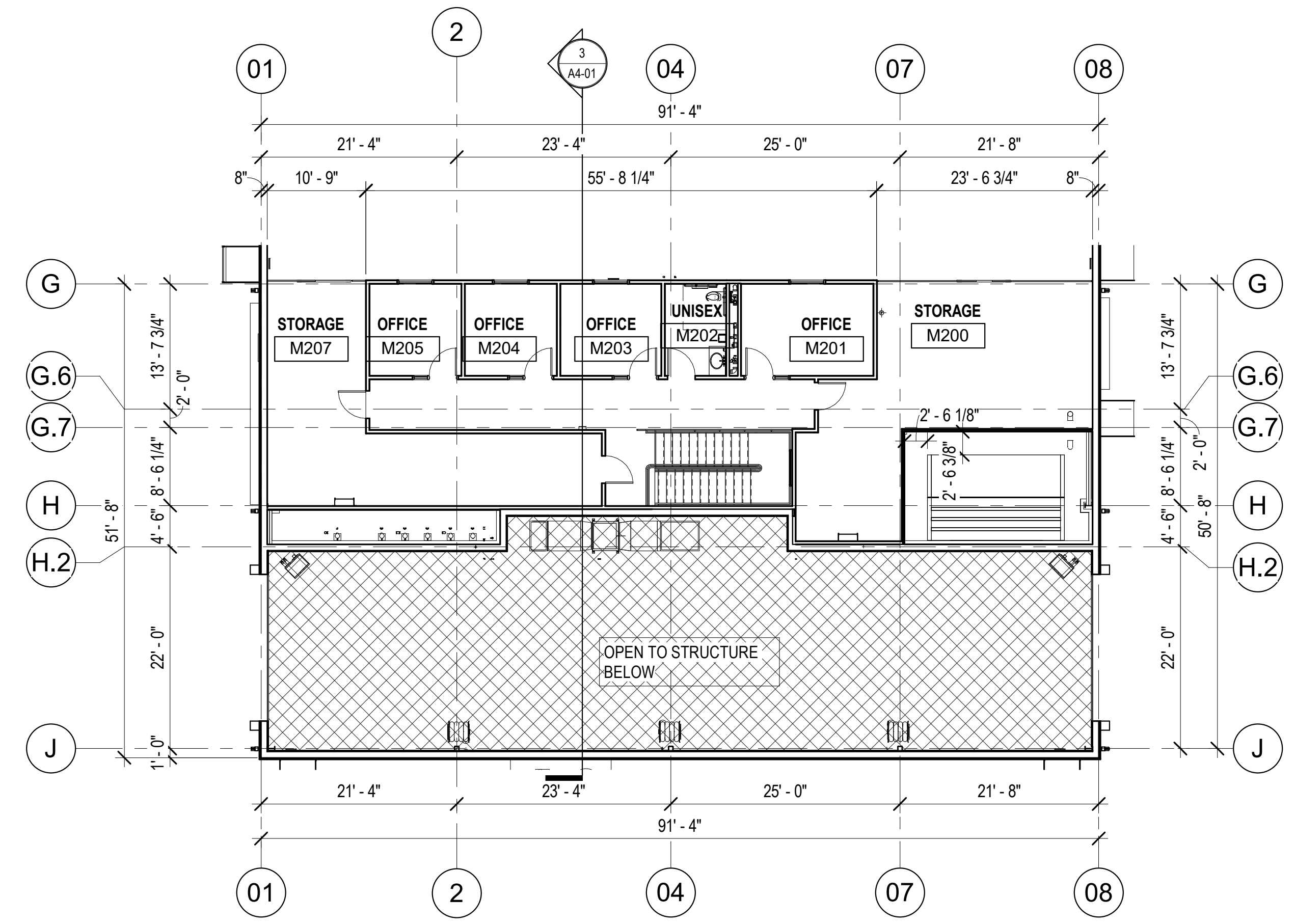
1 LETTER = LAYER ON ONE SIDE
2 LETTERS = LAYER ON EACH SIDE

MODIFYING CONDITIONS:
1. 4" SOUND ATTENUATION BLANKETS IN STUD CAVITIES
2. USE 5/8" TYPE "X" GYPSUM BOARD

- GENERAL NOTE:**
- FURNITURE IS NOT IN CONTRACT. INDICATED FOR ELECTRICAL AND AV CONNECTIONS
 - REFER TO A2 (ENLARGED FLOOR PLANS) FOR INTERIOR DIMENSIONS.
 - PROVIDE ISIMET DLA SERIES WATER CONTROLLER FOR DRUG TESTING LAB FOR SINGLE RESTROOM USE. CONTROLLER TO BE MOUNTED TO WALL, FACING ROOM UNI #M124. CONTROLLER TO BE MOUNTED 48" AFF. PROVIDE FACTORY SOLENOID VALVE ASSEMBLY, LOCATED ABOVE LAY-IN CEILING IN ROOM TOILET #M123.
 - RECEPTACLE FOR FORKLIFT. NEMA 15-50R.
 - DATA OUTLET FOR TIMECLOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.



1 FLOOR PLAN - LEVEL ONE - FLEET MAINTENANCE
A1-00 3/32" = 1'-0"
PLAN NORTH



2 FLOOR PLAN - LEVEL TWO - FLEET MAINTENANCE
A1-00 3/32" = 1'-0"
PLAN NORTH

PROPOSED CHANGE ORDER SUMMARY

SUBCONTRACTOR WORK or
X CONSTRUCTION MANAGER SELF PERFORMED WORK

Subcontractor Name (if applicable):
Oakridge Builders a Division of Flintco, LLC

THE CITY OF NORMAN

Project Name/ #: Norman North Base - Phase 1 - Main Job
 CE No: #003
 CE Title: Additional Blocking for TVs & Millwork
 CE Date: 9/13/2021

Item No	PCOR Description	Hours	Labor		Material	Equipment		Subcontract Cost
				Costs		Type	Cost	
1	Direct Labor (Add Blocking)	14 (@\$45hr)	\$	630.00				\$ 630.00
2	Direct Materials (Blocking)		\$	350.00				\$ 350.00
3	Expendable Small Tools					Expendable Tools	\$ 50.00	\$ 50.00
Subtotals			\$	630.00	\$ 350.00		\$ 50.00	\$ 1,030.00
Labor Burden (@ 58%)			\$	365.40				
Total Raw Costs			\$	1,395.40				
Overhead *			\$	104.66	* Sum of Overhead + Profit limited to ≤ 15% of Total Raw Costs (by contract)			
Profit *			\$	104.66				
Subcontractor's Insurance (applies to subcontractor work only)			\$	-	← do not include an amount here if CM Self Performed Work			
Subcontractor's Bonds (applies to subcontractor work only)			\$	-	← do not include an amount here if CM Self Performed Work			
Total for Subcontractor or CM Self-Performed Work			\$	1,604.71	· If Subcontractor work, enter total in Section 1 of CM Proposed Change Order Summary form. · If CM Self-Performed work, enter total in Section 3 of CM Proposed Change Order Summary Form.			

REVISION 9

**MIDWEST
WRECKING
CO
DEMOLITION**

P O BOX 14668
OKLAHOMA CITY, OK 73113
OFFICE (405) 478-8833
FAX (405) 478-0901

September 13th, 2021

Flintco
Attn: Phillip
Email: phillip.gunderson@flintco.com

Re: City of Norman- North base complex- Revision #9
Norman, OK

We propose and agree to furnish all labor, material, equipment, and insurance necessary to complete subject work as follows:

1. Sawcut and remove curb, gutter, and paving.
2. All materials will be hauled off site and disposed of, proposal includes all disposal fees.

This work will be completed for the sum of **\$1,140.00** (One Thousand One Hundred Forty Dollars).

If you have any questions regarding this proposal, please contact me at (405) 478-8833.

Respectfully,

Date: _____

Bryan Gann
Project Estimator

Accepted: _____



Jason Lohaus - Estimator
turningpoint.lohaus@gmail.com
Cell: 405-255-3395
Office: 405-579-7663
Fax: 405-579-1693
Federal ID: 71-0913108
PO Box 1805 | Blanchard OK 73010

September 10, 2021

RE: Norman North Base Complex

REVISION 9 CHANGES:

- Add 4" thick sidewalk paving to accommodate bike rack per revised SH C4.0
- Add 7" NR PC Paving per added SH C4.4 and detail C5.0
- Add 32" Curb and Gutter adjacent to new PC paving per added SH C4.4

ITEMIZED AS FOLLOWS:

DESCRIPTION:	QTY:	UNIT:	UNIT COST:	SUB:
4" NR PC Sidewalk on 2" Sand Bed	90.00	SF	6.00	540.00
7' NR PC Paving on 8" Agg Base	930.00	SF	8.00	7440.00
32" Curb and Gutter	110.00	LF	25.00	2750.00

TOTAL:

\$10,730.00

Exclusions: Construction Staking, Testing, Site Grading exceeding +/- a 10th, Erosion Control, Backfill, Location-Relocation or Repair of Utilities, Utility Lay Out, Sleeves, Storm Water Collection Devices/Work, Demo, Offsite Washout, Bollard Material, Bike Rack Installation P&P/Maintenance Bonds, Tax, Dirt work, Landscaping, Etc.

DSE Bidding and Estimating Form

Job: North Base

Page # 14

Area: gate relocation

Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1			added about 500' to run						
2									
3	50	e	10' sticks of 1" pvc for power			13.80	690.00		
4	1500	e	500' x 3 of fhhn #8 wire			0.65	975.00		
5	24	e	2 men 24 hours labor	2	48.00				
6	3	e	quzite j-boxes (due to length of run)			105.00	315.00		
7									
8	50	e	10' sticks of 1" pvc for controls			13.80	690.00		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
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21									
22									
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25									
26									
27									
28									
29									
30									
31									
32									
Totals				2	48.00		2670.00		0.00

Labor Hour Rate 60
 Tax Rate
 Profit 15.00%

Total Labor 2,880
 Total Material 3,071
 Total Opening 0

Total Page 14

Total 5,951



PROPOSAL/CONTRACT

American Fence
215 N. Cooley Drive
Oklahoma City, OK 73127
405-685-4800
americanfenceok.com
estimating@americanfenceok.com

PO#:
CUSTOMER:

DATE: 09/01/2021
JOB LOCATION:

Flintco
Oklahoma City OK

North Base Complex
Revision 9
Norman, OK

NOTES:

Install approx. 275LF of 8' tall chainlink fence plus 3 strands of barbed wire

TERMS & CONDITIONS

American Fence agrees to guarantee above fence to be free from defects in materials and workmanship for one year. American Fence shall advise the customer as to local zoning regulations but responsibility for complying with said regulation is the customers. American Fence will assist the customer, upon request, in determining where the fence is to be erected, but under no circumstance does American Fence assume any responsibility concerning property lines or in any way guarantee their accuracy. If property pins cannot be located it is recommended that the customer have the property surveyed. American Fence will assume the responsibility for having underground public utilities located and marked. However, American Fence assumes no responsibility for unmarked sprinkler lines, or any other unmarked buried lines or objects. The customer will assume all liability for any damage caused by directing American Fence to dig in the immediate vicinity of known utilities. The final billing will be based on the actual footage of fencing built and the work performed. Partial billing may be sent at weekly intervals. Additional charges for any extra work not covered in this contract that was requested by the customer will also be added. The full amount of this contract along with any additional charges will become payable upon completion of all work whether or not it has been invoiced. A finance charge of 1 1/2% per month (or a minimum of \$1.00), which is an annual percentage rate of 18%, shall be applied to accounts that are not paid within 10 days after completion of any work invoiced. ALL CREDIT CARD PAYMENTS WILL HAVE A 3% CONVENIENCE FEE THAT

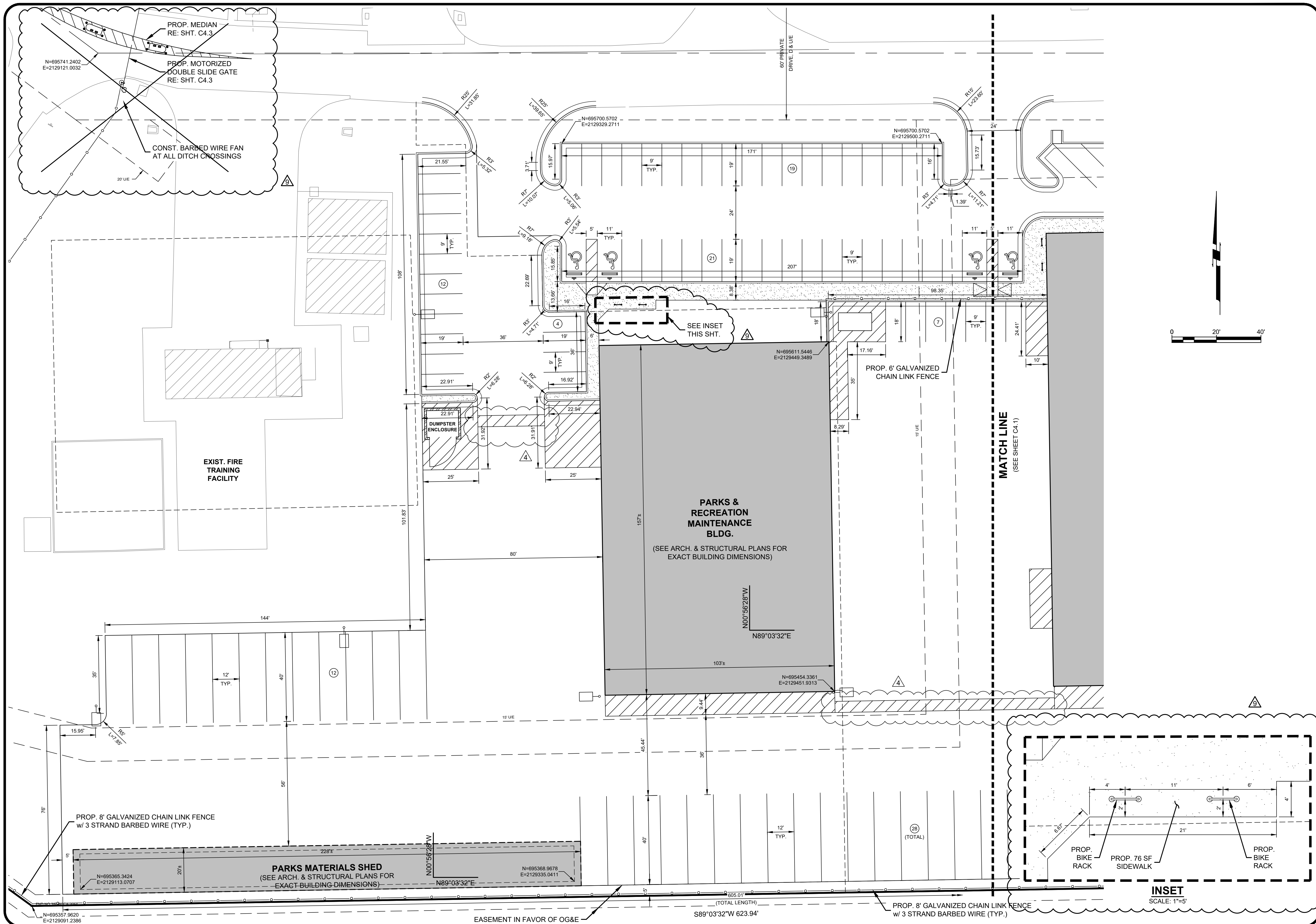
Subtotal	\$	15000.00
Tax	\$	0.00
Grand Total	\$	15000.00
Down Payment	\$	
BALANCE DUE	\$	15000.00

Approved & Accepted for Customer:

_____	_____
Customer	Date
_____	_____
Customer	Date

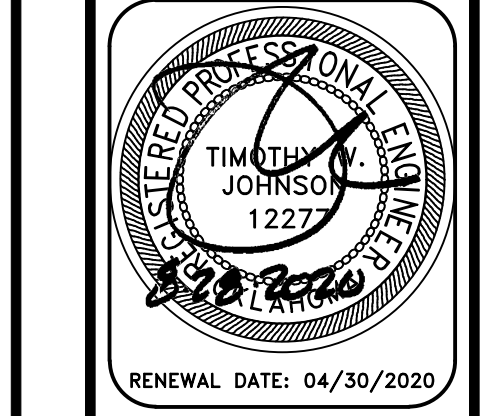
Accepted for American Fence:

_____	_____
Salesperson	Date



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NO.	REVISIONS	DESCRIPTION	DATE
1	REVISION #4		11-24-20
2	REVISION #9		09-27-21



RENEWAL DATE: 04/30/2020

Johnson & Associates, Inc.
 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
 (405) 235-8075 FAX: (405) 235-8078 www.ja-inc.com
 Certificate of Authorization #1484 Exp. Date: 05-31-2021

• ENGINEERS • SURVEYORS • PLANNERS •

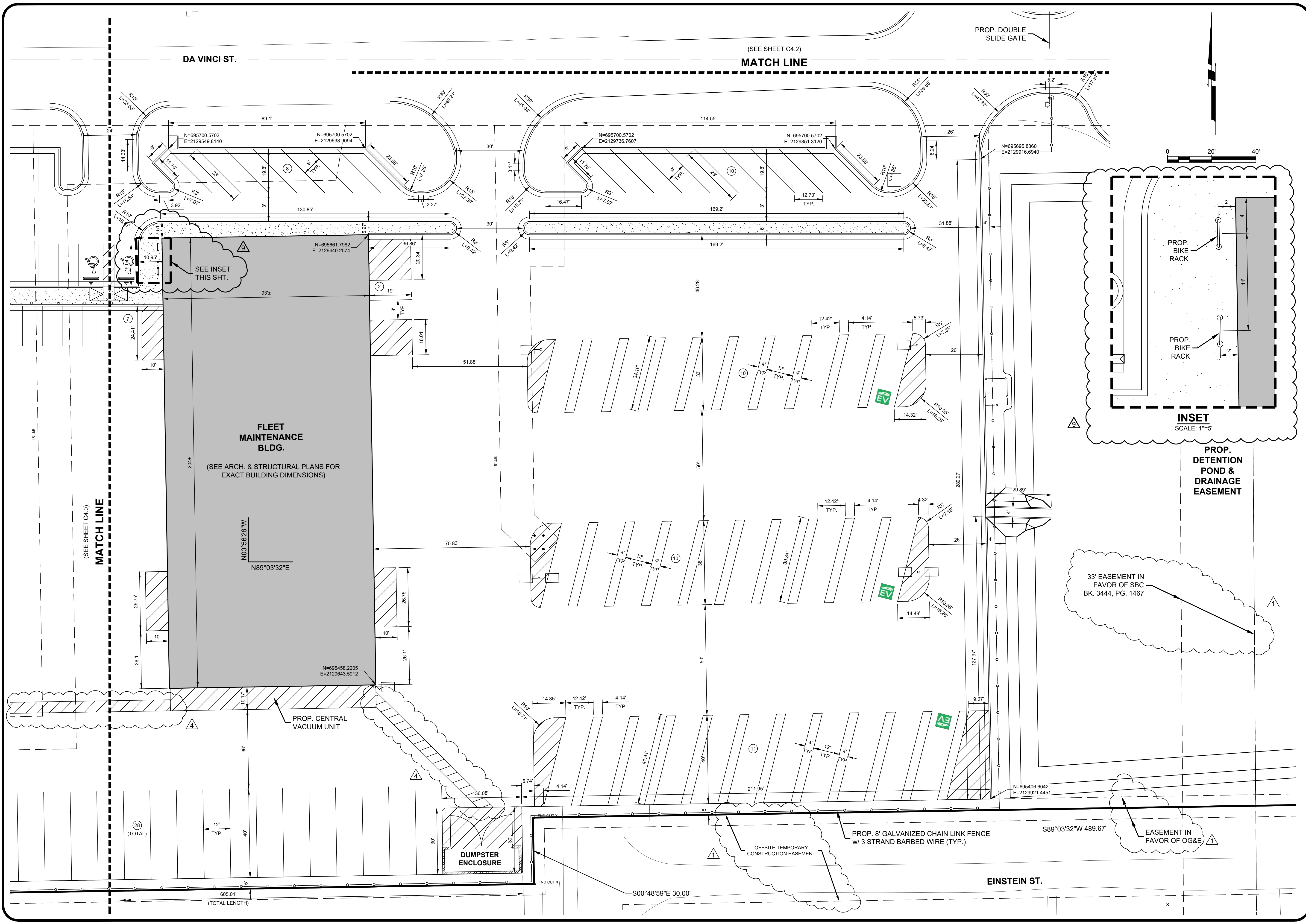
**CITY OF NORMAN - NORTH
 BASE COMPLEX PHASE 1**
 NORMAN, CLEVELAND COUNTY, OKLAHOMA

SITE DIMENSIONAL PLAN

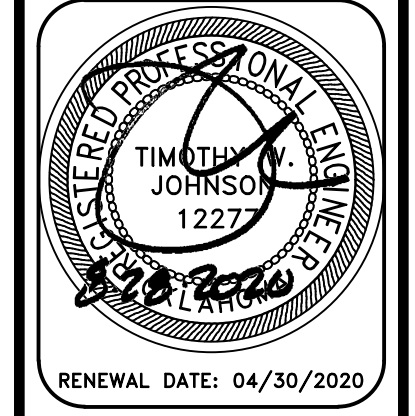
Proj. No.: _____
 Date: 08-28-20
 Scale: 1"=20'

Checked By: _____
 Approved By: _____

SHEET NUMBER
C4.0



NO.	REVISIONS	DESCRIPTION	DATE
1	ADDED		08-28-20
2	ADDED		11-25-20
3	ADDED		08-27-21



RENEWAL DATE: 04/30/2020

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 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
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• ENGINEERS • SURVEYORS • PLANNERS •

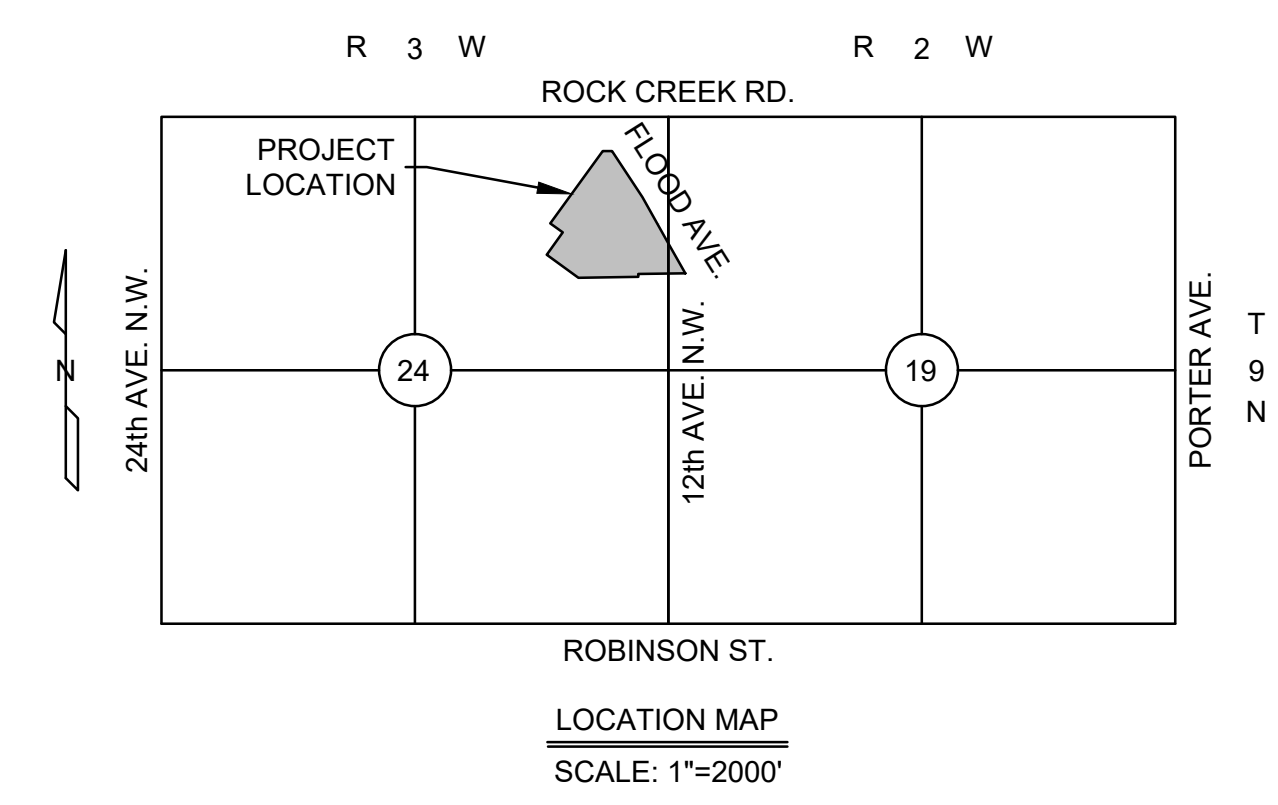
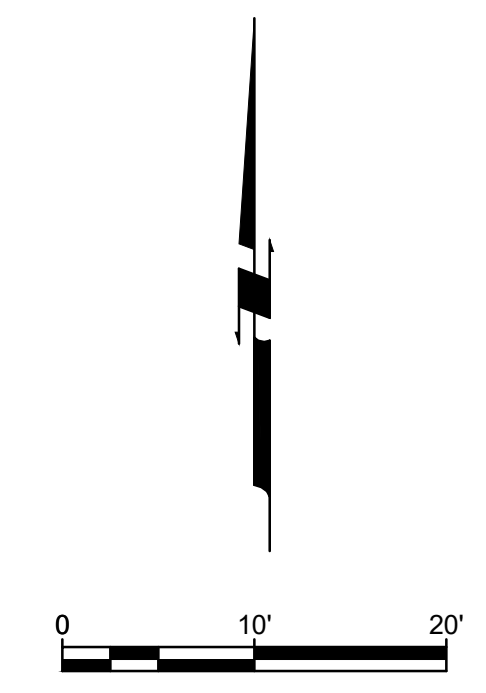
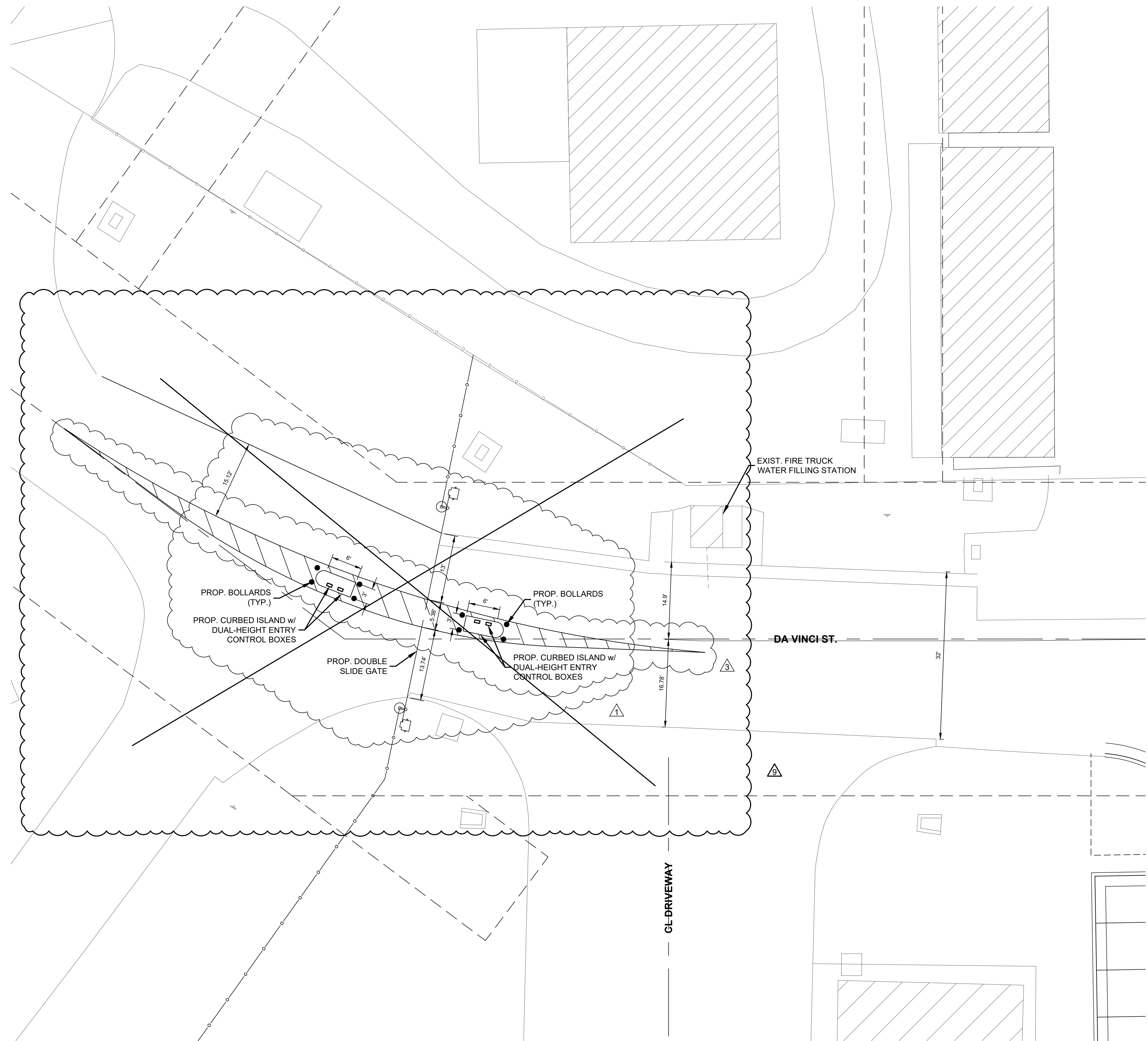
**CITY OF NORMAN - NORTH
 BASE COMPLEX PHASE 1**
 NORMAN, CLEVELAND COUNTY, OKLAHOMA

SITE DIMENSIONAL PLAN

Proj. No.:	
Date:	08-28-20
Scale:	1"=20'
Checked By:	
Approved By:	

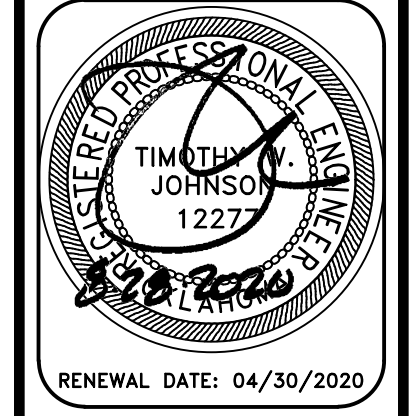
SHEET NUMBER
C4.1

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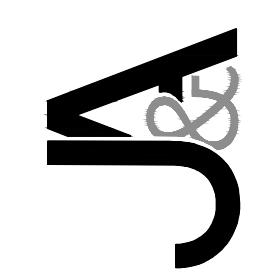


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NO.	REVISIONS	DESCRIPTION	DATE
1	APPENDIX #1		08-28-20
2	REVISION #3		10-05-20
3	REVISION #6		08-27-21



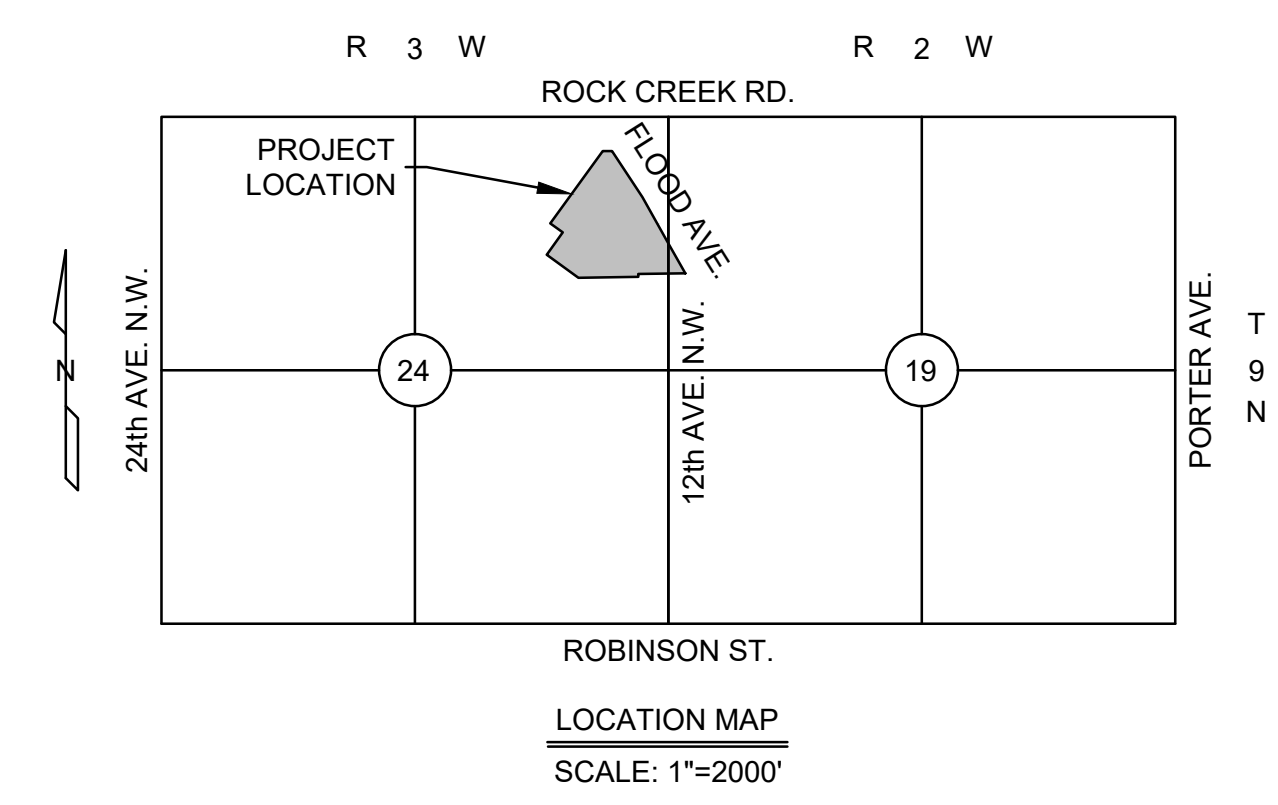
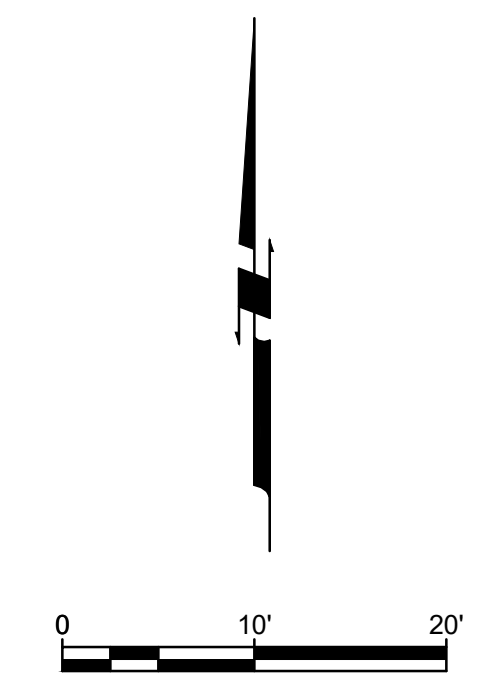
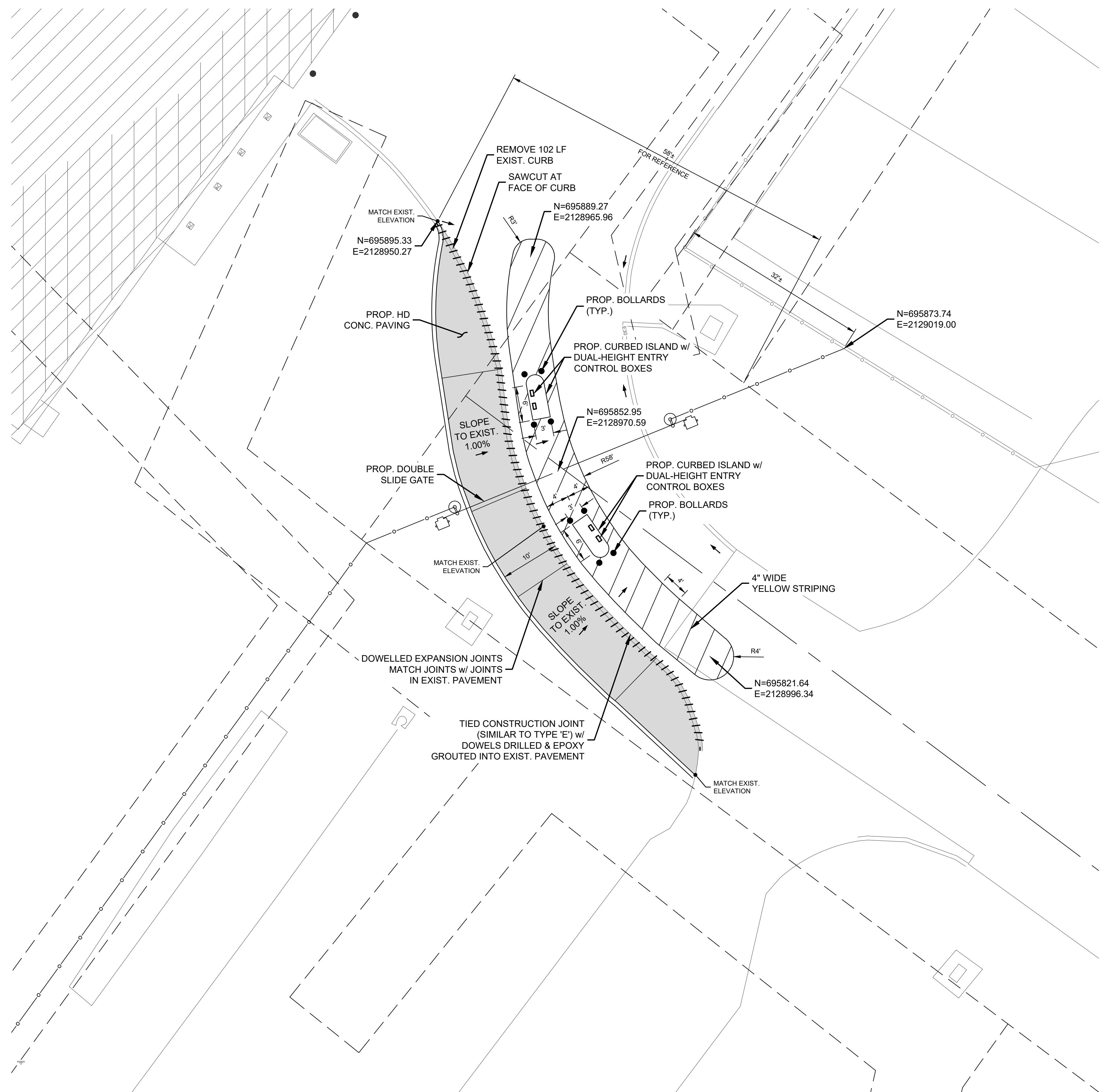
Johnson & Associates, Inc.
 1 E. Sheridan Ave., Suite 200
 Oklahoma City, OK 73104
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 Certificate of Authorization #1484 Exp. Date: 05-31-2021
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CITY OF NORMAN - NORTH
 BASE COMPLEX PHASE 1
 NORMAN, CLEVELAND COUNTY, OKLAHOMA
 SITE DIMENSIONAL PLAN

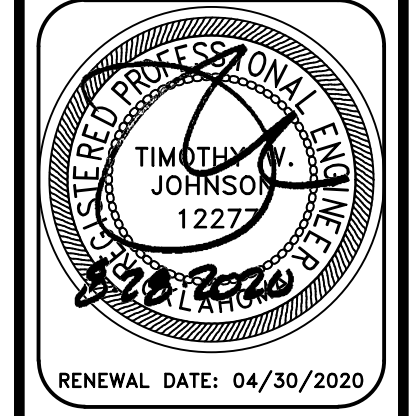
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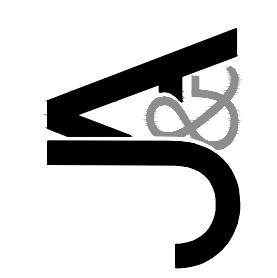


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NO.	REVISIONS	DESCRIPTION	DATE
1	ADDITIONAL#1		08-28-20
2	REVISION#3		10-05-20
3	REVISION#6		08-27-21



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CITY OF NORMAN - NORTH
BASE COMPLEX PHASE 1
NORMAN, CLEVELAND COUNTY, OKLAHOMA
SITE DIMENSIONAL PLAN

Proj. No.:
Date: 08-28-20
Scale: 1"=10'
Checked By:
Approved By:

SHEET NUMBER
C4.4

**ADDITIONAL
INTERIOR
SAFETY
STRIPPING -
REV 3**



For

North Base Complex – Phase 1
Norman, OK

REV 3 Pricing



Scope of Work and Recommendations

Safety Markings

Yellow line striping/path – option to create solid yellow patch vs striping
3” lettering no more than 10 feet apart

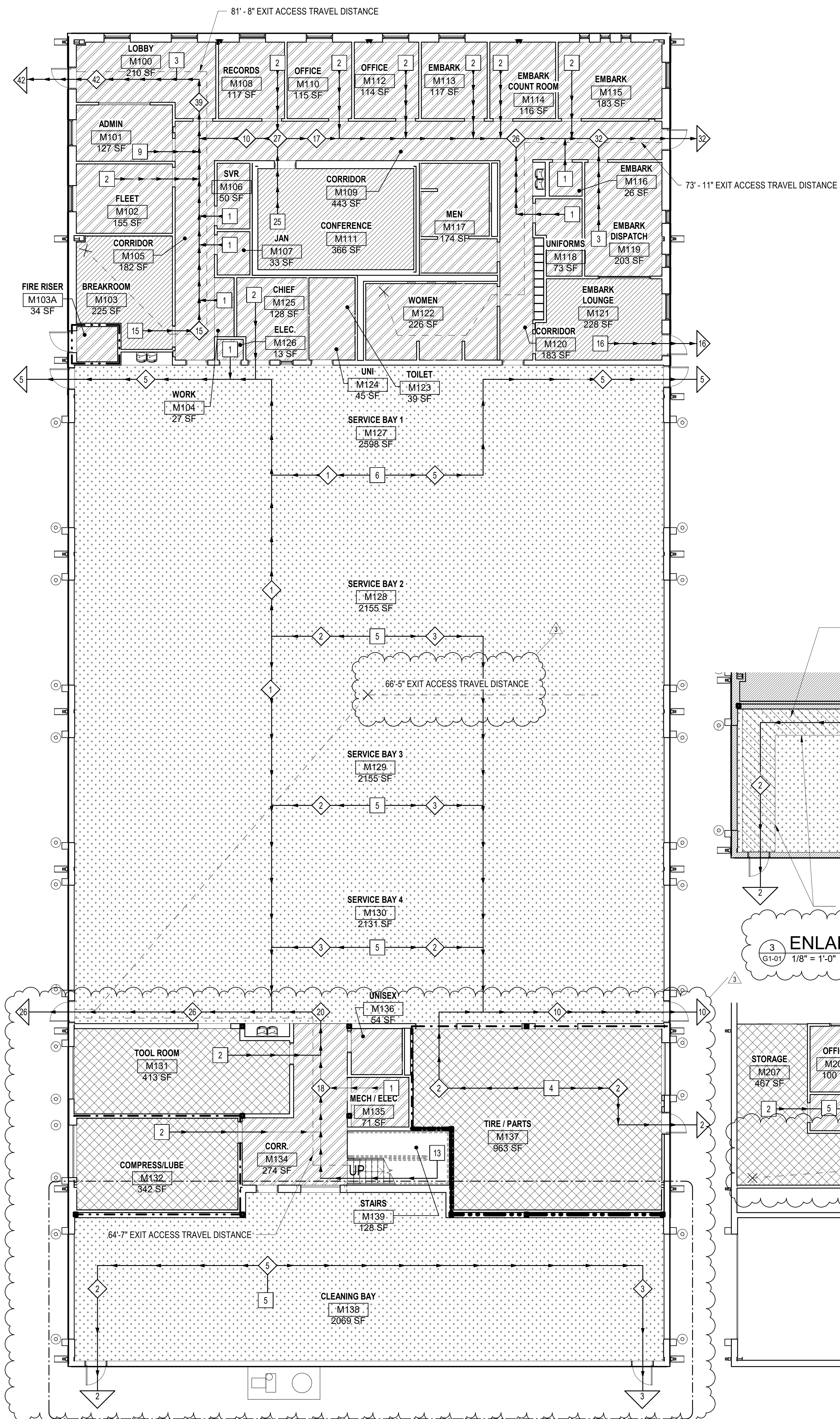
If Striped with Lettering	\$5,720.00
If Solid Path with Lettering	\$4,760.00

Proposed and Approved By:

Bryan M Lassiter 9/10/21
 Bryan M Lassiter Date
 General Manager

Reviewed and Accepted By:

 Authorized Representative of Date
Contractor/Owner



EGRESS GENERAL NOTES:

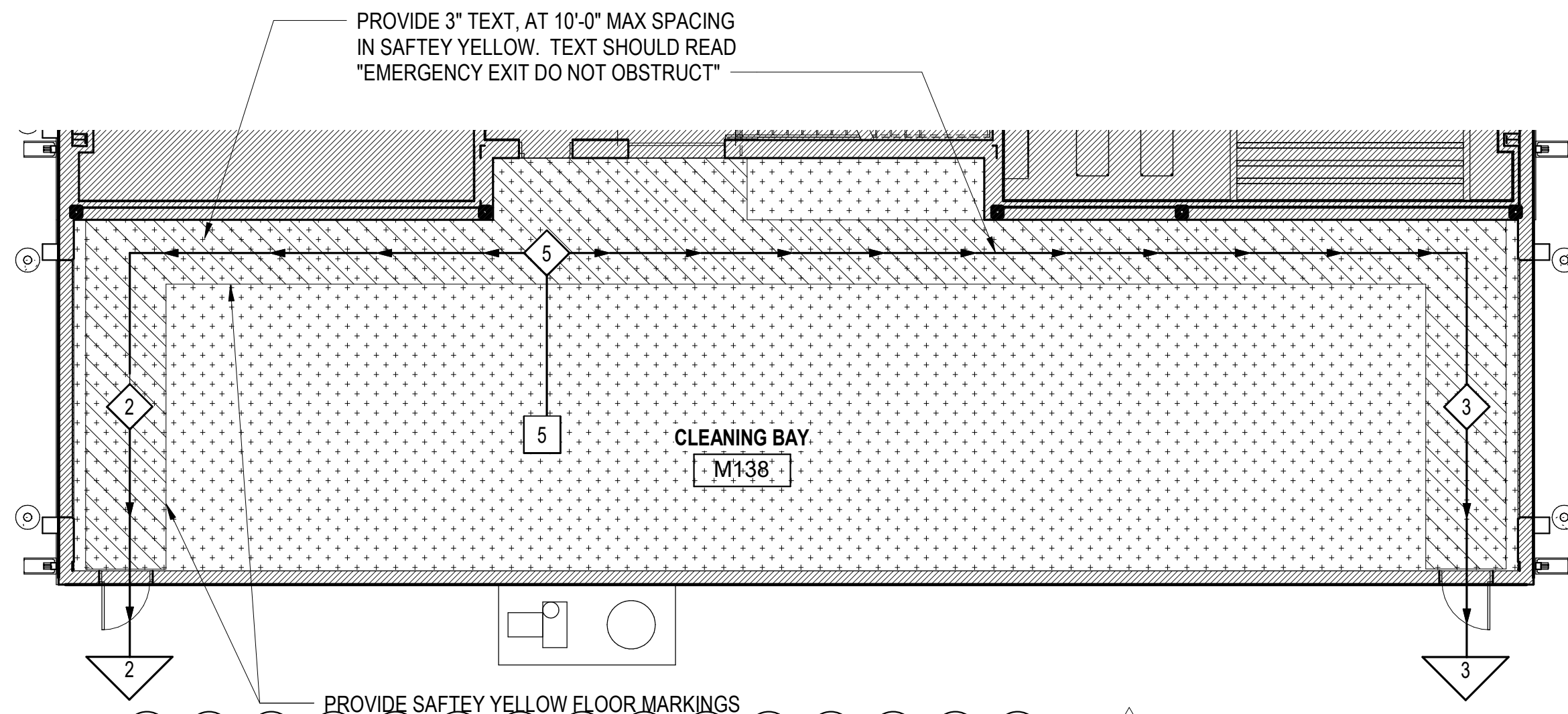
1. ALL CONTROLS SUCH AS THERMOSTATS, ELECTRICAL DOOR CONTROLS AND FIRE ALARM PULLS TO BE MOUNTED $\leq 48"$ TO TOP.
2. ALL FIRE ALARM STROBES MOUNTED SUCH THAT THE ENTIRE LENSE $\geq 80"$ AND $\leq 96"$

EGRESS LEGEND

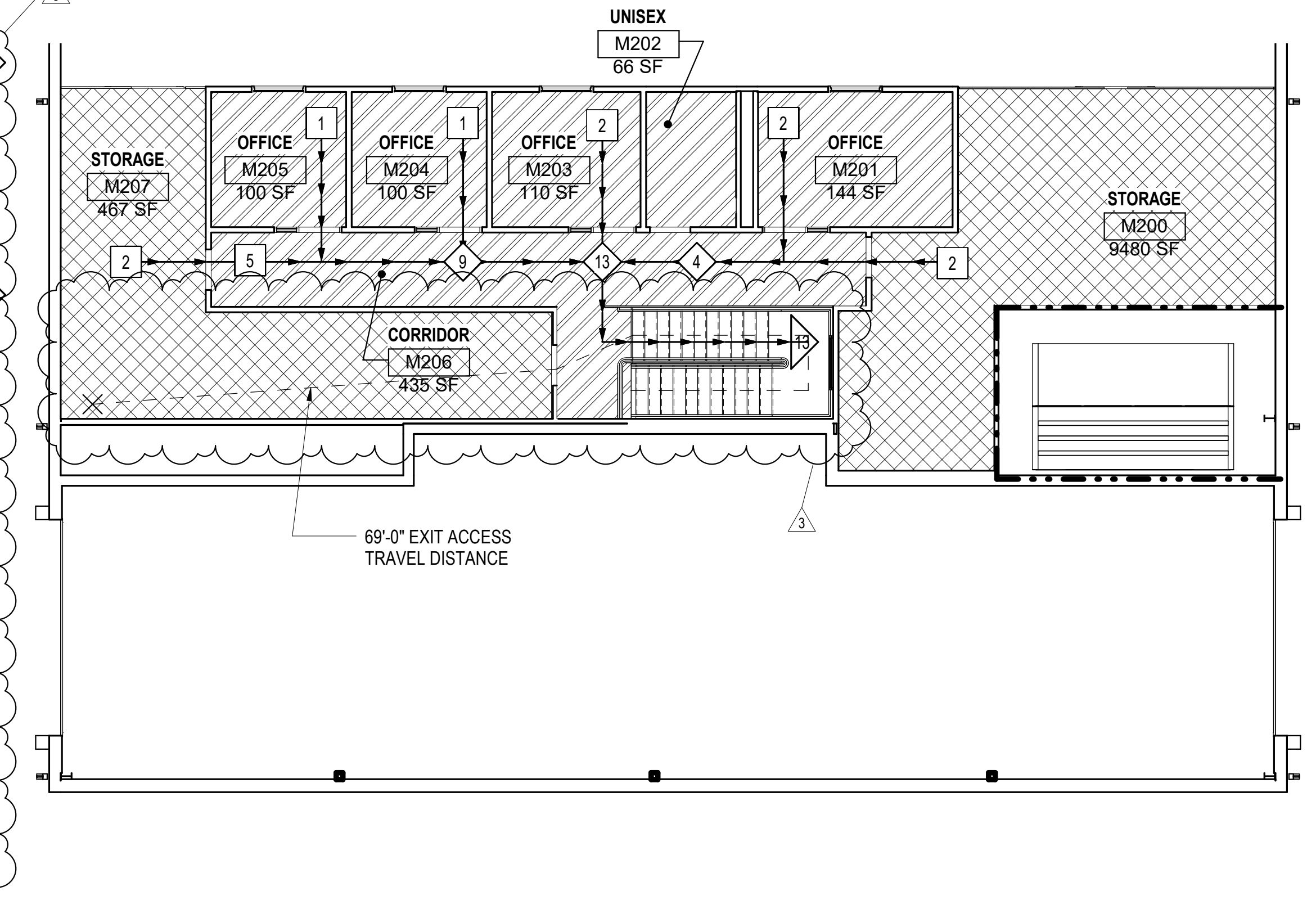
SYMBOL	DESCRIPTION
#	ROOM OCCUPANT LOAD
#	OCCUPANTS IN ROUTE TO EXIT AND DIRECTION OF TRAVEL
#	NUMBER OF OCCUPANTS EXITING
→	DIRECTION OF EGRESS
---	TRAVEL DISTANCE
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER BRACKET MOUNT
---	1 HR FIRE SEPARATION
---	2 HR FIRE SEPARATION

OCCUPANCY LEGEND

[Pattern]	ASSEMBLY W/O FIXED - UNCONCENTRATED
[Pattern]	BUSINESS (B)
[Pattern]	MODERATE - HAZARD FACTORY (F-1)
[Pattern]	MODERATE - HAZARD STORAGE (S-1)



ENLARGED LSP LEVEL ONE - FLEET
 1/8" = 1'-0"



LIFE SAFETY PLAN - LEVEL TWO - FLEET MAINTENANCE
 1/8" = 1'-0"

BUILDING CODE INFORMATION - "FLEET"

APPLICABLE CODES

- 2015 International Building Code
- 2015 International Mechanical Code
- 2015 International Fuel Gas Code
- 2015 International Plumbing Code
- 2014 NEC (NFPA 70)
- 2015 International Fire Code
- 2006 International Energy Conservation Code

NEW CONSTRUCTION

USE & OCCUPANCY	MIXED OCCUPANCY
A	A ASSEMBLY WITHOUT FIXED - UNCONCENTRATED
B	B BUSINESS
F-1	F-1 MODERATE-HAZARD FACTORY INDUSTRIAL
S-1	S-1 MODERATE-HAZARD STORAGE

TYPE OF CONSTRUCTION 2B SPRINKLERED

CHAPTER 5 GENERAL BUILDING HEIGHTS & AREAS

ALLOWABLE HEIGHT	75'-0" / 3 STORIES
ALLOWABLE AREA	63,467 S.F. PER STORY
ACTUAL HEIGHT	40'-2" / 1 STORY
ACTUAL AREA	18,634 S.F.

CHAPTER 6 TYPE OF CONSTRUCTION

FIRE RESISTANCE OF STRUCTURAL ELEMENTS	TABLE 601
STRUCTURAL FRAME	0 HOURS
BEARING WALLS	
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
NON-BEARING WALLS	
EXTERIOR	0 HOURS
INTERIOR	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS

CHAPTER 7 FIRE & SMOKE PROTECTION FEATURES

THE FIRE SEPARATION DISTANCE FOR THIS BUILDING IS GREATER THAN 30' AND QUALIFIES THE BUILDING FOR EXEMPTION #2 OF SECTION 705.8.1; THEREFORE, THIS BUILDING IS PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS.

CHAPTER 8 INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY	TABLE 803.11	
GROUP - MIXED OCCUPANCY A, B, F-1, & S-1	2B SPRINKLERED	
	INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS	B
	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND EXIT ACCESS RAMPS	C
ROOMS AND ENCLOSED SPACES	C	

CHAPTER 9 FIRE PROTECTION SYSTEMS

FIRE PROTECTION	REQUIRED	PROVIDED
- SPRINKLER	NO	YES
- SMOKE DETECTOR	YES	YES

FIRE EXTINGUISHERS

IBC Section 906.2
Fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10

IBC Section 906.3, Moderate Hazard, 1,500 sq ft per Unit of "A"
Total Floor Area: 18,634.02 S.F. / 1,500 = 13 EXTINGUISHERS REQUIRED

Total of 3 extinguisher provided. Refer to drawings for exact location.
MAX. TRAVEL DISTANCE TO EXTINGUISHER: 75 FEET.

CHAPTER 10 MEANS OF EGRESS

OCCUPANT LOAD	TABLE 1004.1.2		
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	MAX. OCCUPANT LOAD	OCCUPANT LOAD (CALCULATED)
ASSEMBLY	15 GROSS	55	56
BUSINESS AREAS	100 GROSS	49	43
SERVICE BAYS, CLEANING BAY	500 GROSS	49	21
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 GROSS	29	12
TOTAL			132

COMMON PATH OF TRAVEL (TABLE 1006.2.1) NOT TO EXCEED 75 FEET

TWO EXITS REQUIRED (1006.3.1), THREE EXITS PROVIDED

MINIMUM CLEAR DOOR WIDTH (1010.1.1) IS 32" CLEAR (REQUIRES 3'-0" DOOR)

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) FOR OCCUPANCY "A, F-1, AND S-1" WITH SPRINKLERS IS 250 FT.

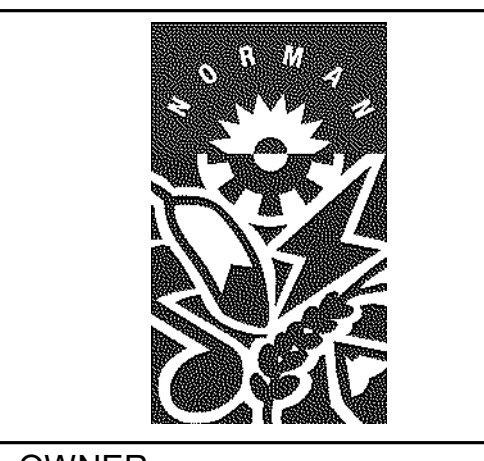
EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) FOR OCCUPANCY "B" WITH SPRINKLERS IS 300 FEET.

-THE PROJECT'S MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 90.5 FT

CHAPTER 29 PLUMBING

OCCUPANCY	OCC. LOAD	WATER CLOSETS				LAVATORIES				DRINKING FOUNTAIN	SERVICE SINK					
		MALE	FEMALE	RATIO	REQ'D	MALE	FEMALE	RATIO	REQ'D							
A	56	25	25	1/25	1	1/25	1	1/25	1	1/40	1.63	1/40	1.63	1/100	.65	1
B	43	25	25	1/25	1.22	1/25	1.22	1/25	1.22	1/40	1.63	1/40	1.63	1/100	.65	1
F-1	21	13	13	1/100	.13	1/100	.13	1/100	.13	1/100	.13	1/100	.13	1/400	.065	1
S-1	12	7.5	7.5	1/100	.075	1/100	.075	1/100	.075	1/100	.075	1/100	.075	1/1000	.015	1
TOTAL (REQ'D)					3		3		3		3		3		2	1
PROVIDED					5		4		6		6		6		4	1

NR - NO REQUIREMENT; N/A - NOT APPLICABLE; S.D. - SMOKE DETECTOR



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CITY OF NORMAN
 NORTH BASE COMPLEX - PHASE 1
 1310-1380 DA VINCI STREET
 NORMAN, OK



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REVISIONS

NO.	DATE	DESCRIPTION
3	10/21/2020	Revision 3

GSB PROJECT NO.
191650

DRAWING TITLE
LIFE SAFETY PLAN - FLEET MAINTENANCE

DATE
8/28/2020

DRAWING NO.
G1-01

**ADDITIONAL
SECURITY &
ACCESS
CONTROL**

DSE Bidding and Estimating Form

Job: north base

Page # 10

Area: rfi 41 feet

Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1									
2	3	e	10' sticks of 1.25" emt			36.00	108.00		
3	11	e	10' sticks of 2.5" emt			77.00	847.00		
4	15	e	10' sticks of 1" emt			22.00	330.00		
5	18	e	18 hours labor 1 man	1	18.00				
6									
7									
8	1	e	deduct for pipe in drop ceiling			-1,500.00	-1500.00		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
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22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
Totals				1	18.00		-215.00		0.00

Labor Hour Rate 60
 Tax Rate
 Profit 15.00%

Total Labor 1,080
 Total Material -247
 Total Opening 0
Total 833

Total Page 10



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Additional Security & Access Control Conduit

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	06/04/2021	STATUS:	Open
REFERENCE:		DUE DATE:	06/15/2021
COST IMPACT:	Yes (Unknown)	SCHEDULE IMPACT:	No
LINKED DRAWINGS:		RECEIVED FROM:	Brandon Reed (Don Schimmel & Electric, Inc.)

COPIES TO:

Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Geoff Evans (Planning Design Group), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Sarah Hendrickson (ADG), Joseph Hill (City of Norman), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.)

Question from Zack Blair (Flintco, LLC - OKC) at 02:31 PM on 06/04/2021

Reference Electrical, Convergent Drawings, and SK-1

On May 27th, 2021, a coordination meeting was held with FLintco, City of Norman, and Convergent present, with the main topic regarding exposed raceways/cablings in the shop area. In the electrical drawings, general note "N" calls for the electrical contractor to provide all raceways shown on Convergent drawings. The raceways needed for convergent to get their cabling back to the comm room were not shown, and only the conduit required for the door access control was shown in the original Convergent drawings. After talking this through with Convergent, and Paul D'andrea, we all agreed that the access control wiring above dropped ceilings could be eliminated and Convergent's wiring could be free air with J-hooks in thos areas, eliminating the need for conduit above ceiling. The intention was to have a wash between eliminating the aforementioned conduit and adding the conduit across the shop/bay areas as shown in Convergints revised drawings, however, the revised conduit routing exceeds the original quote by approximately \$1500. Please advise if Flintco should proceed with installing the added conduit per the revised Convergent Drawings at an additional ROM of \$1500.

Attachments:
[RFI #041 - SK1.pdf](#)

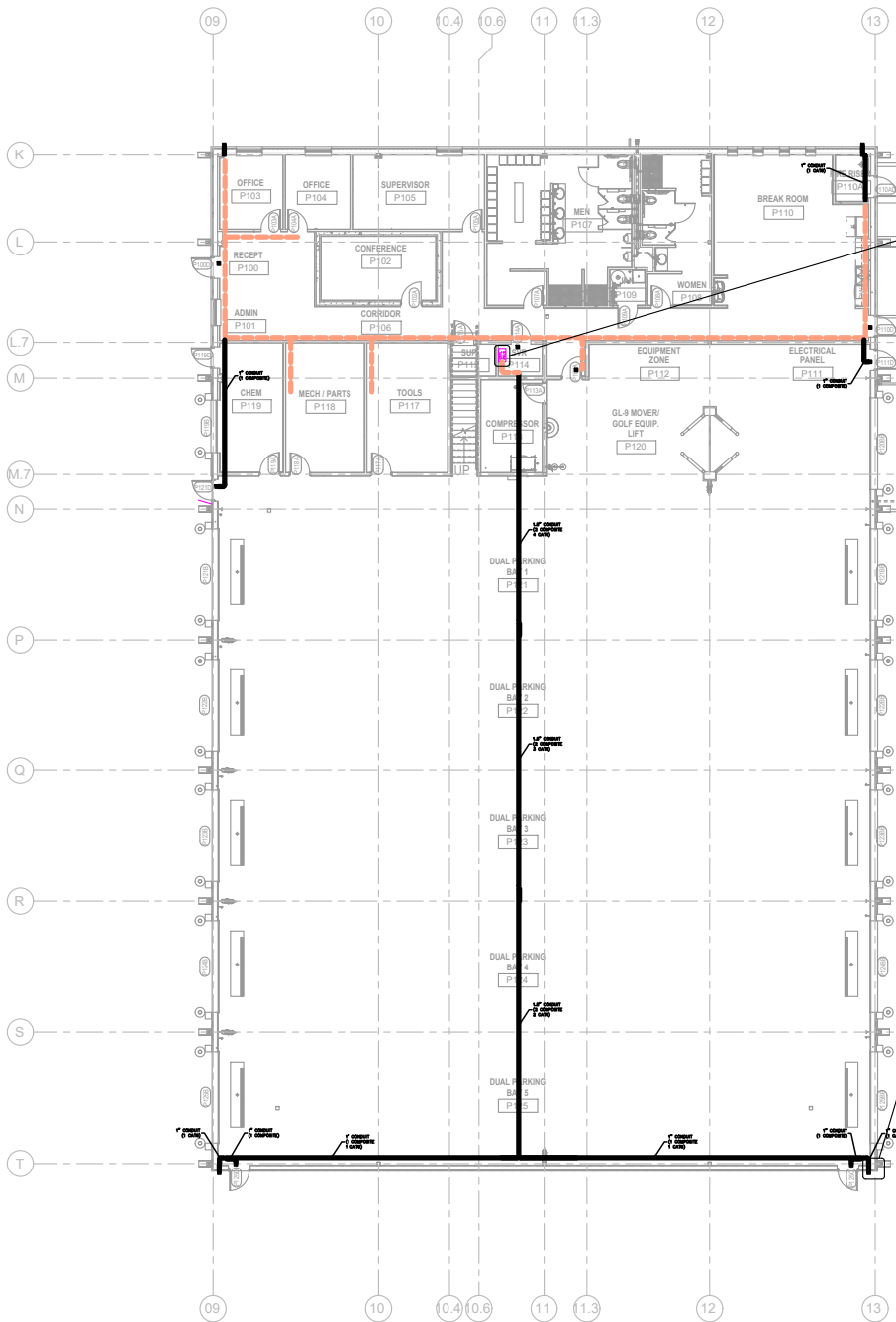
Official Response

Awaiting an Official Response

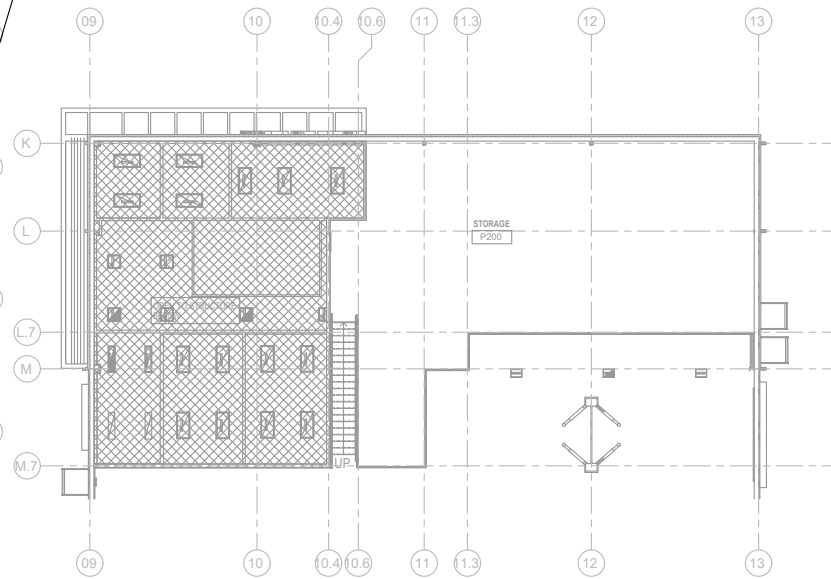
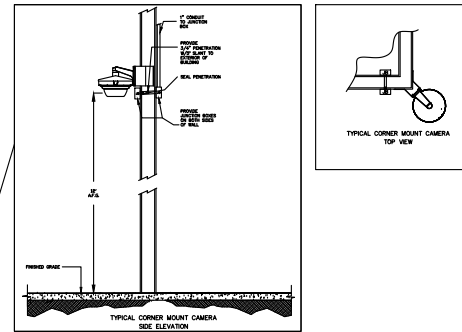
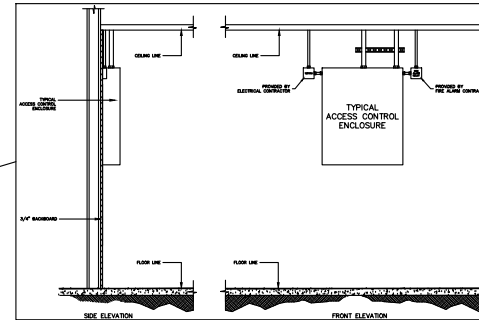
All Replies: [ARCHITECT RESPONSE | JULY 20, 2021:](#)

FLINTCO MAY PROCEED WITH THE INSTALLATION OF THE ADDED CONDUIT PER THE REVISED CONVERGINT DRAWINGS FOR THE ADD OF \$1,500.

MICHAEL SEGROVES, AIA / AICP
PROJECT ARCHITECT | GSB, INC. ARCHITECTS & PLANNERS



FLOOR PLAN - LEVEL ONE - PARKS MAINTENANCE
 1/8" = 1'-0"
 PLAN NORTH



FLOOR PLAN - LEVEL TWO - PARKS MAINTENANCE
 1/8" = 1'-0"
 PLAN NORTH

ACCESS CONTROL LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	ACCESS CONTROL PANELS
[Symbol]	CARD READER
[Symbol]	REQUEST TO EXIT MOTION SENSOR
[Symbol]	ELECTRIC STRIKE
[Symbol]	DOOR CONTACT
[Symbol]	ELECTRIFIED EXIT DEVICE
[Symbol]	ELECTRIFIED HARDWARE POWER SUPPLY
[Symbol]	ELECTRIFIED LOCKSET
CCTV LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	INDOOR OMP IP FIXED CAMERA
[Symbol]	OUTDOOR OMP IP FIXED CAMERA
[Symbol]	INDOOR/OUTDOOR ZOMP MULTISENSOR IP CAMERA
DEVICES SHOWN IN LEGEND ARE TO BE PROVIDED BY SECURITY CONTRACTOR.	

CONDUIT LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	J-HOOKS (SEE ACCORDANCE # IF MAX SPACING)
[Symbol]	CONDUIT (SEE FLOOR PLAN NOTES FOR CONDUIT SIZE)

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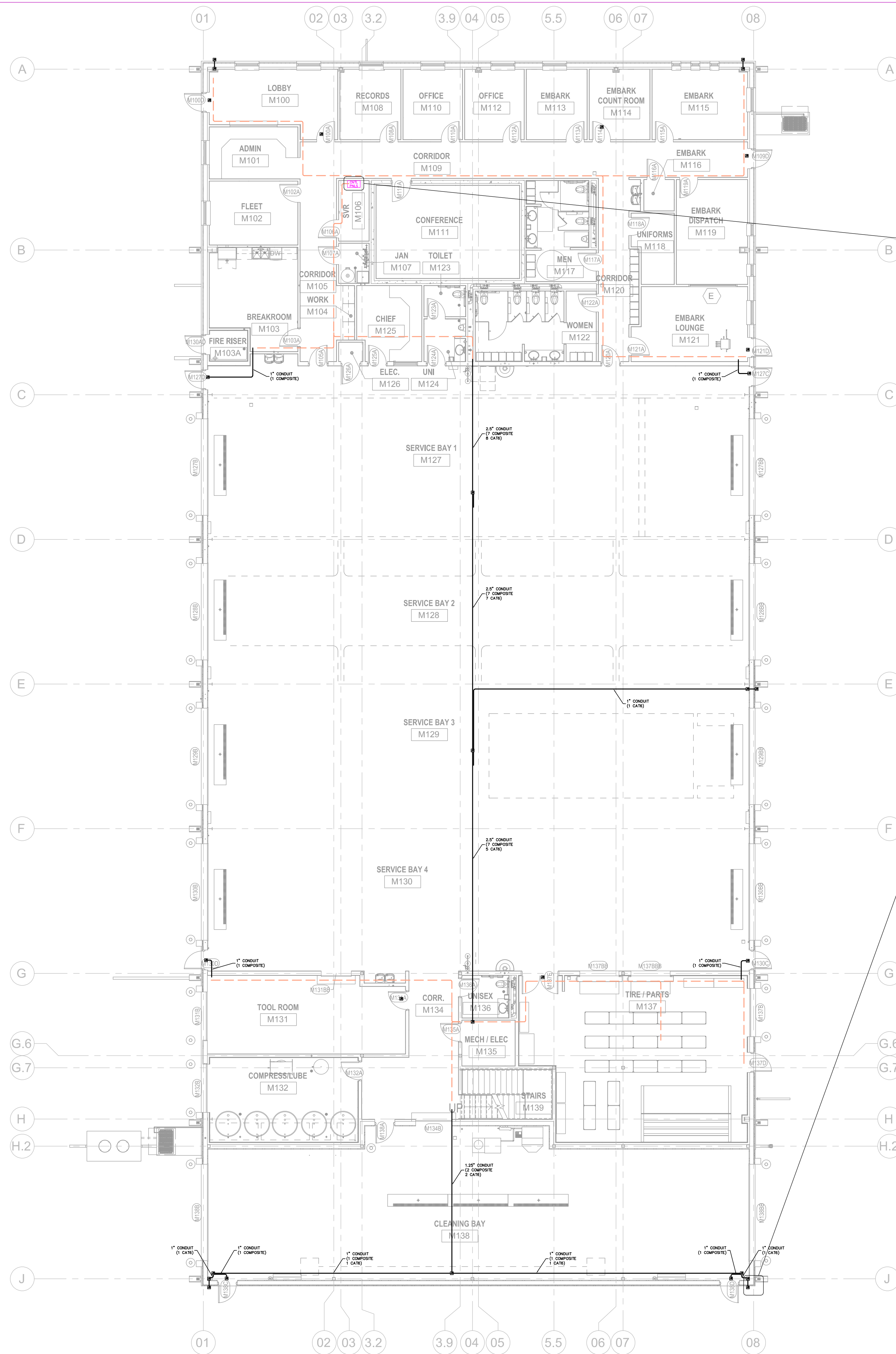
REVISIONS		
NO.	DATE	DESCRIPTION

GSB PROJECT NO.
 191650

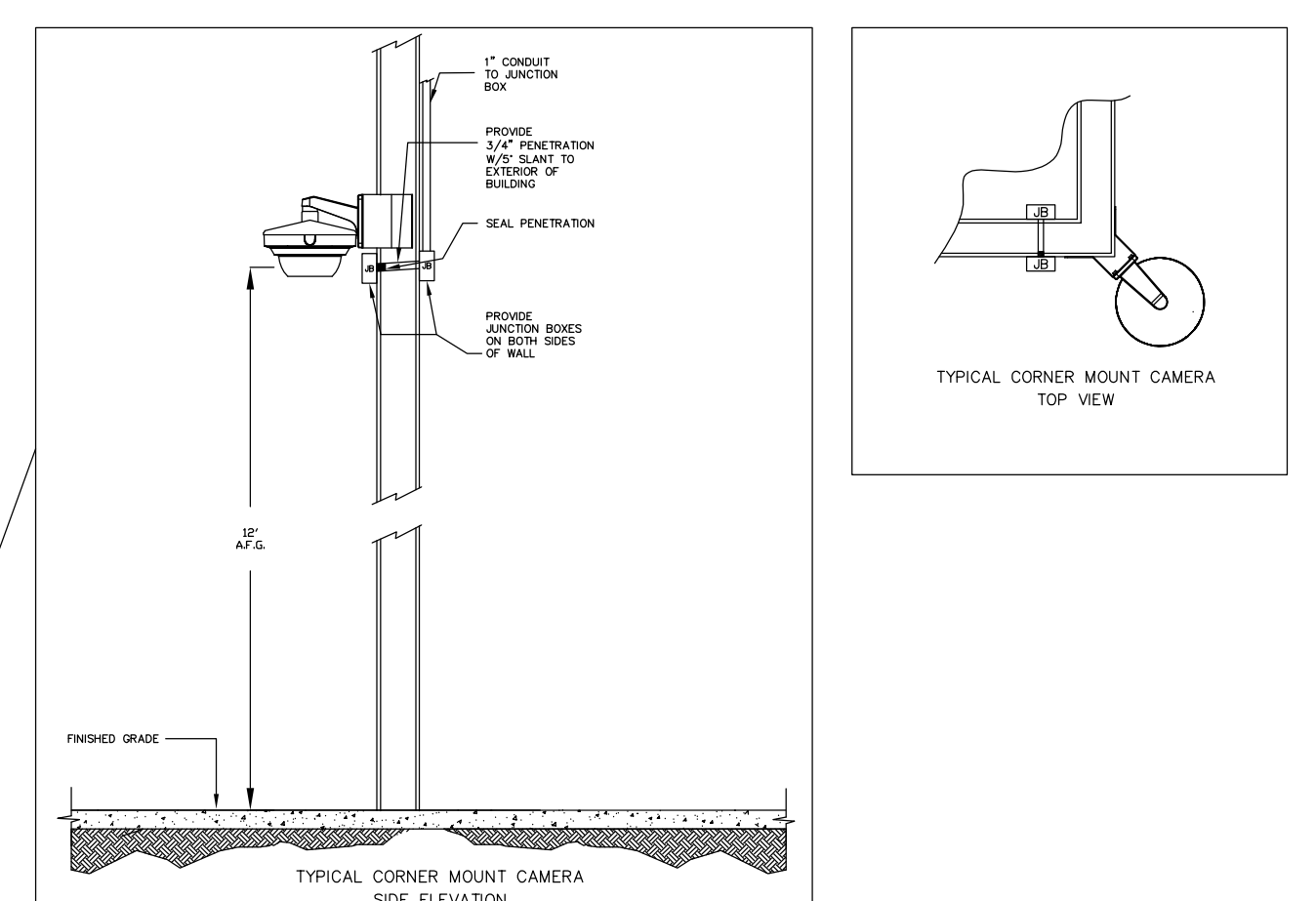
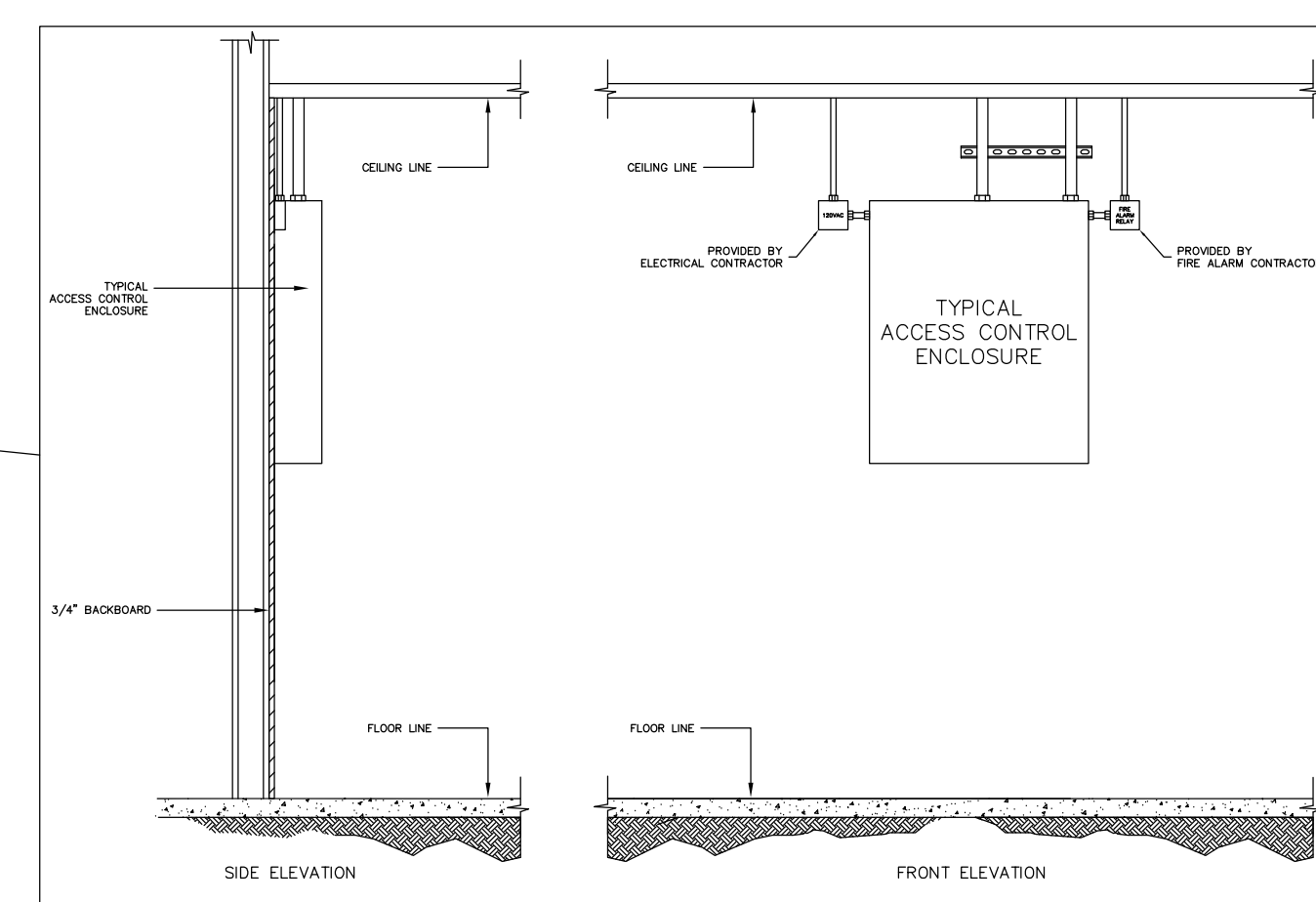
DRAWING TITLE
 FLOOR PLAN - PARKS MAINTENANCE (ADD ALTH1)

DATE
 XXXX/2020

DRAWING NO.
 XX-XX



1 FLOOR PLAN - LEVEL ONE - FLEET MAINTENANCE
1/8" = 1'-0"



ACCESS CONTROL LEGEND

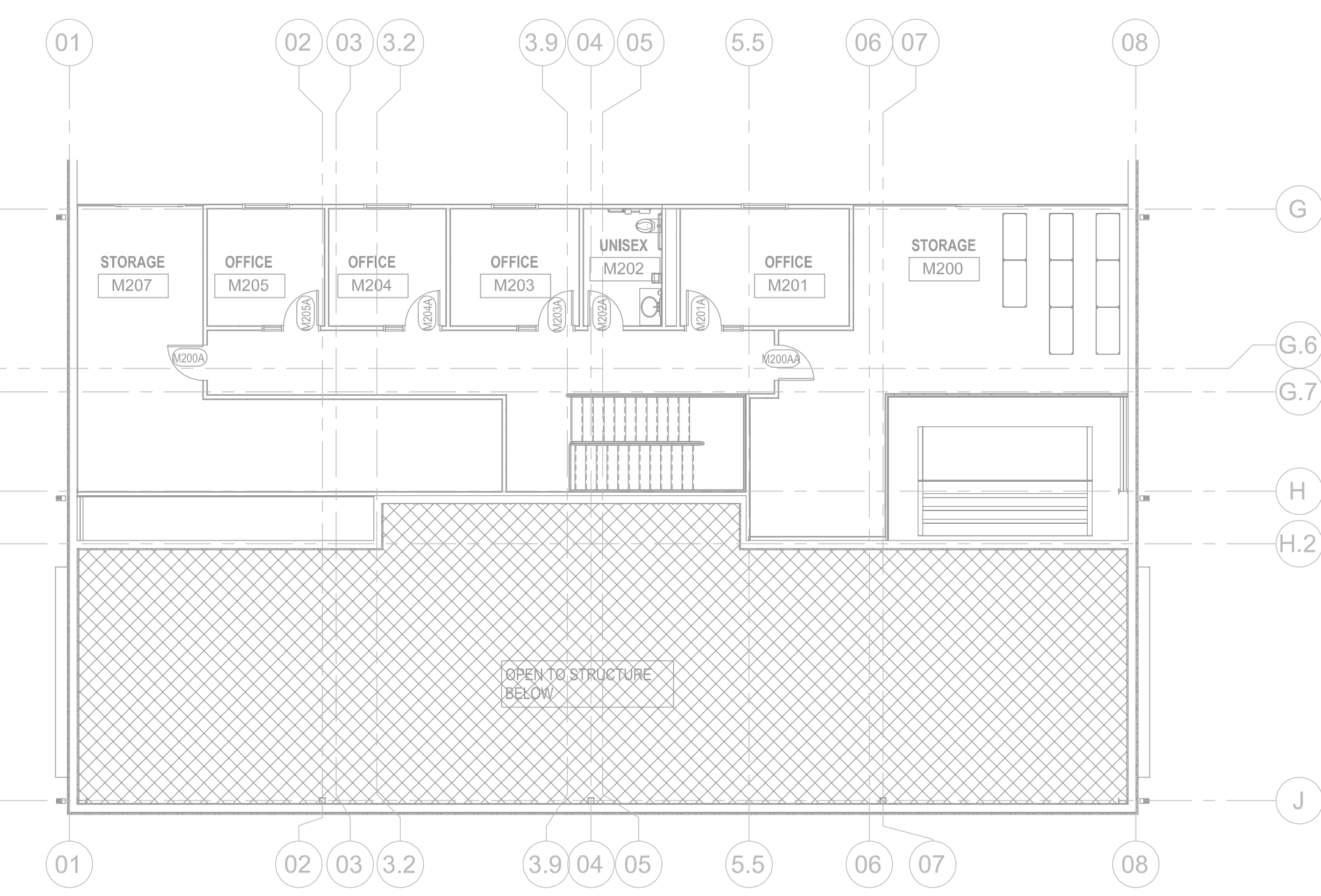
SYMBOL	DESCRIPTION
PA1	ACCESS CONTROL PANELS
CR	CARD READER
RE	REQUEST TO EXIT MOTION SENSOR
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
ED	ELECTRIFIED EXIT DEVICE
EP	ELECTRIFIED HARDWARE POWER SUPPLY
EL	ELECTRIFIED LOCKSET

CCTV LEGEND

SYMBOL	DESCRIPTION
ICM	INDOOR 5MP IP FIXED CAMERA
OCM	OUTDOOR 5MP IP FIXED CAMERA
IMC	INDOOR/OUTDOOR 20MP MULTISENSOR IP CAMERA

CONDUIT LEGEND

SYMBOL	DESCRIPTION
---	J-HOOKS (SEE ACCORDINGLY & 8" MAX SPACING)
---	CONDUIT (SEE FLOOR PLAN NOTES FOR CONDUIT SIZES, SIZES ARE CONSIDERED MINIMUM)



2 FLOOR PLAN - LEVEL TWO- FLEET MAINTENANCE
1/8" = 1'-0"



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REVISIONS		
NO.	DATE	DESCRIPTION

GSB PROJECT NO.
191650

DRAWING TITLE
FLOOR PLAN - FLEET MAINTENANCE

DATE
XX/XX/2020

DRAWING NO.
XX-XX

**TILE CHANGE
FROM 12x24
TO 18x35**

APEX FLOORING

RYAN ELDRIDGE

17885 S Sunnyslane Rd

Norman, Ok 73071

Cell (405) 606-9416

ryan@apex-flooring.com

September 2, 2021

To: Cory Rackley

From: Ryan Eldridge

Project Name: Norman North Base Complex

Sections Included: Ceramic Tiling

Labor and Materials are Included in the Following:

Emser Blue Emotion Dark 18x35 in lieu of specified 12x24 floor tile

Labor.....	\$ 1,147.00
Thinset.....	\$ 57.00
Leveling Clips.....	<u>\$ 357.00</u>

TOTAL ADD for 18x35 in lieu of specified 12x24.....\$ 1,561.00

Note: 1/2 Parks, 1/2 Fleet or \$780.50 each

Add On: bonds add 1.5%

Bid Exclusions: Demo, Unforeseen Conditions, Moisture Related Subfloor Failures, cost of any/all subcontract bonds, dumpster, major floor prep, leveling or floating to transitions, furniture moving, final clean, floor protection, hoisting, overtime, mud beds, clean up or any scraping of debris from other trades, cement backer boards, epoxy/stained/sealed concrete.

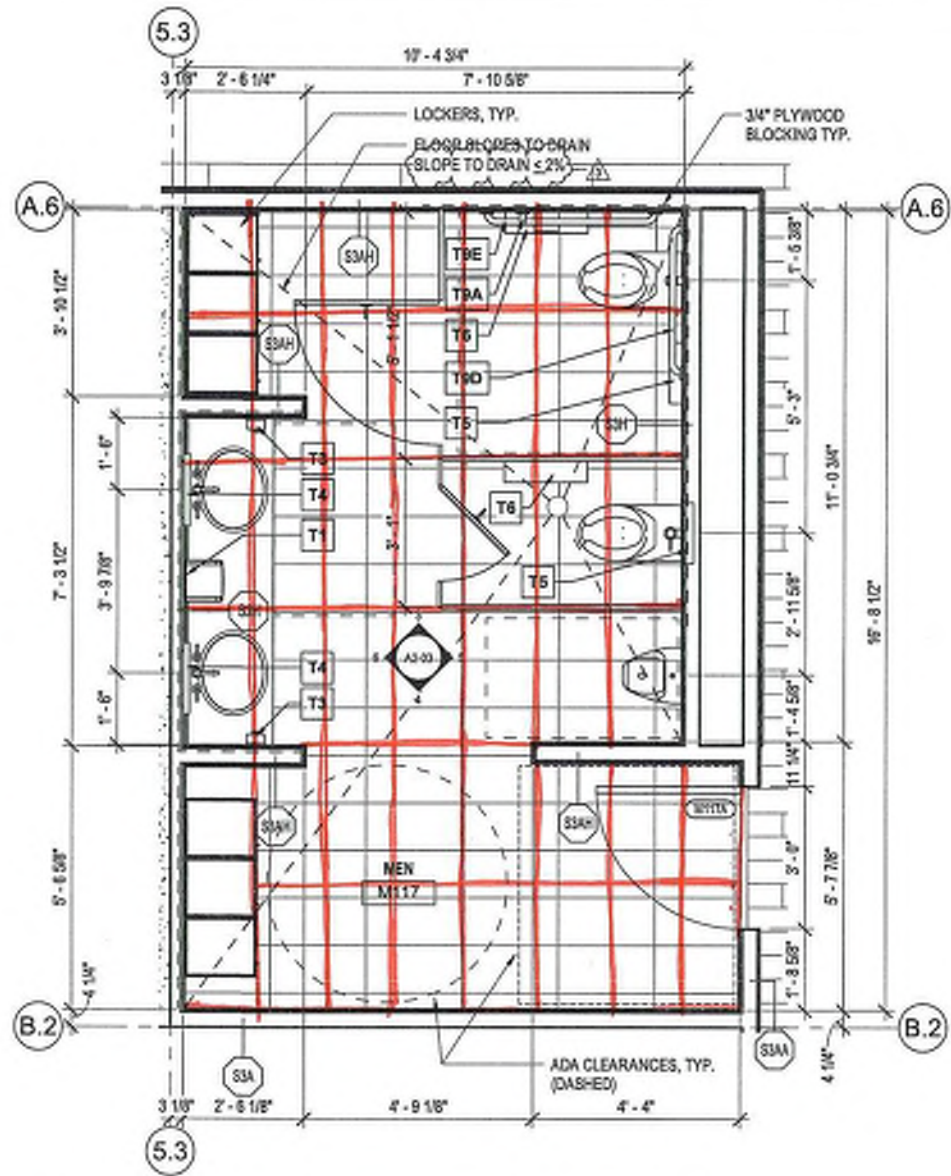
*****Notes:** This proposal includes standard floor prep(1 bag per 1000sf). Standard floor prep is defined as slab blemishes, minor cracks, and nail holes. Any additional bags will result in a change order and must be approved before any work will be performed. A moisture test will be performed on every job prior to installation to determine moisture and PH level of slab. Moisture remediation if required will be considered a change order. All epoxy grout/mortars and cement backer boards are excluded from bids including ceramic tile. All grouts and setting materials are standard unless otherwise noted above. **WARRANTY: 1 year for workmanship only.*****

FLEET MAINTENANCE
M117 + M130
18x36 TILE

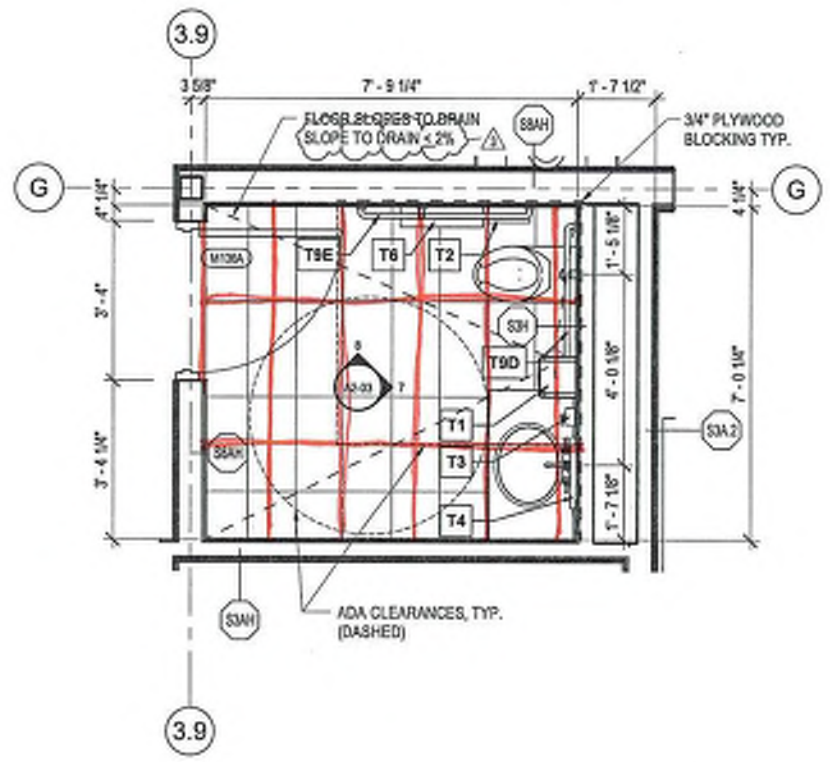
TOILET ACCESSORY LEGEND			
MARK	DESCRIPTION	MANUFACTURER	MODEL
T1	PAPER TOWEL DISPENSER - SURFACE MOUNTED	TORK USA	5510202
T2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
T3	SOAP DISPENSER	DEB STOKO	WRM1LDS
T4	VINITY MIRROR	BOBRICK	B-290
T5	SEAT COVER DISPENSER - RECESSED	BOBRICK	B-221
T6	TOILET PAPER DISPENSER - SURFACE MOUNTED	TORK USA	5555200
T9	ACCESSIBLE GRAB BAR 12"	BOBRICK	B-6806.99
T9A	ACCESSIBLE GRAB BAR 18"	BOBRICK	B-6806.99
T9B	ACCESSIBLE GRAB BAR 24"	BOBRICK	B-6806.99
T9C	ACCESSIBLE GRAB BAR 36"	BOBRICK	B-6806.99
T9D	ACCESSIBLE GRAB BAR 42"	BOBRICK	B-6806.99
T9E	ACCESSIBLE GRAB BAR 48"	BOBRICK	B-6806.99
T18	MOPBROOM HOLDER	BOBRICK	B-224 X36
T19	COAT HOOK	BOBRICK	B-6707.99
T23	MOP SINK		
T24	SOAP DISH		
T25	CURTAIN ROD, SHOWER CURTAIN, CURTAL...	BOBRICK	B-6047...

PARTITION TYPE LEGEND	
BASIC MATERIAL:	
C	CONCRETE
M	MASONRY (CMU)
S	STUD
BASIC SIZE:	
0	7/8" FURRING CHANNEL
1	1 5/8" STUD
2	2 1/2" STUD
3	3 5/8" STUD
4	4" CONCRETE, MASONRY OR STUD
6	6" CONCRETE, MASONRY OR STUD
8	8" CONCRETE, MASONRY OR STUD
APPLIED LAYERS:	
A	1 LAYER 5/8" GYPSUM BOARD
B	2 LAYERS 5/8" GYPSUM BOARD
C	1 LAYER 1/2" GYPSUM BOARD
D	2 LAYERS 1/2" GYPSUM BOARD
E	RESERVED
F	1 LAYER 5/8" CEMENTITIOUS BACKER
G	1 LAYER 1/2" CEMENTITIOUS BACKER
H	1 LAYER 5/8" MOISTURE RESISTANT GYP. BOARD
J	1 LAYER 1/2" MOISTURE RESISTANT GYP. BOARD
K	SHAFTWALL CONSTRUCTION
PARTITION TYPE SYMBOL	
BASIC MATERIAL	
BASIC SIZE	
APPLIED LAYERS CODE	
MODIFYING CONDITION	
S3A.1	1 LETTER = LAYER ON
S3A.1	2 LETTERS = LAYER OFF
MODIFYING CONDITIONS:	
1.	4" SOUND ATTENUATION BLANKETS IN PARTITION
2.	USE 5/8" TYPE "X" GYPSUM BOARD

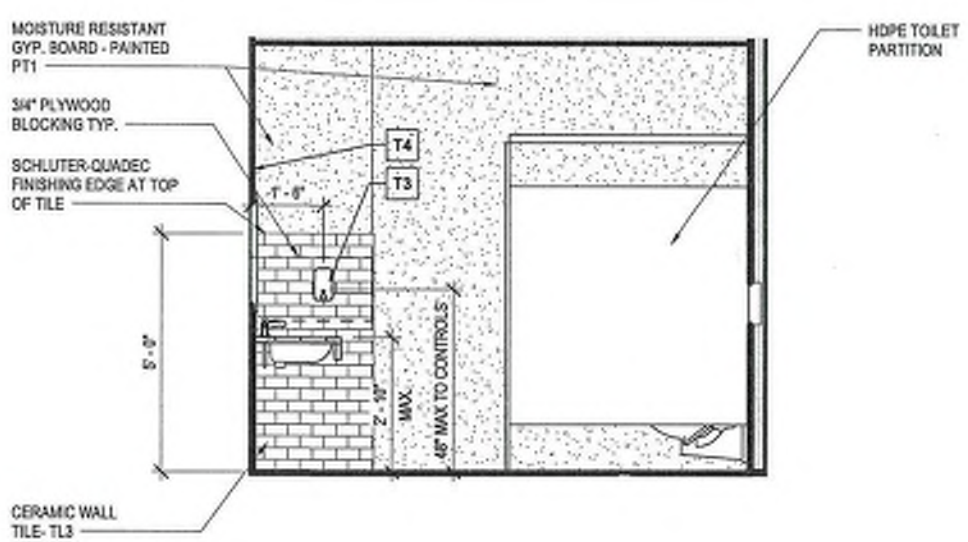
FLOOR PLAN LEGEND	
ROOM REFERENCE	ROOM NAME
(A2-03)	101
DOOR NUMBER (A7-01)	101
WINDOW NUMBER (A7-01)	11
PARTITION TYPE (A6-00)	58



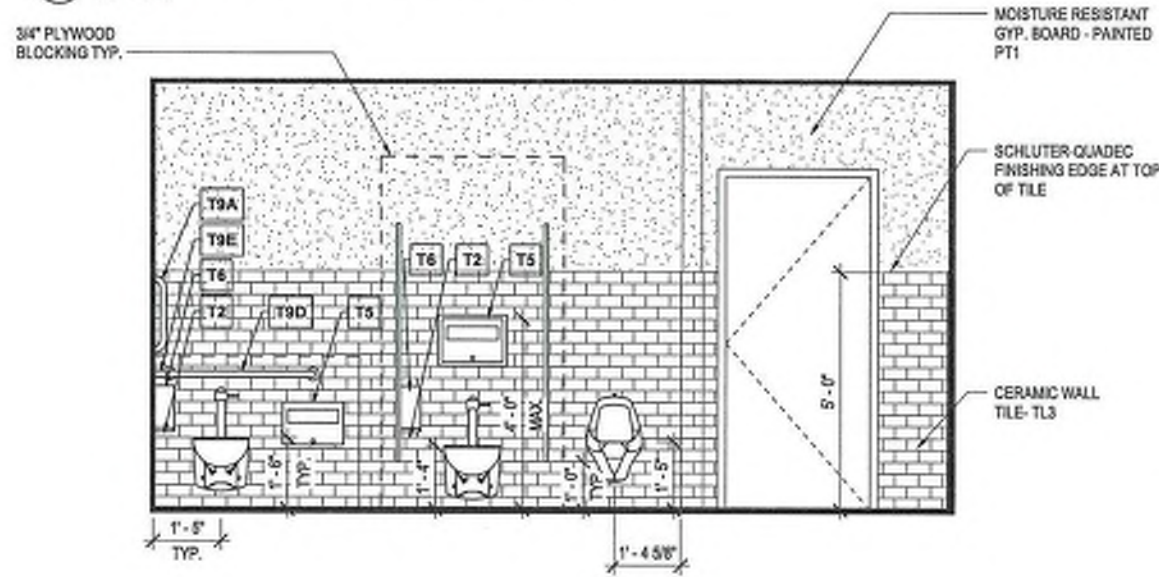
1 ENLARGED FLOOR PLAN - MENS RESTROOM
A2-03 1/2" = 1'-0"



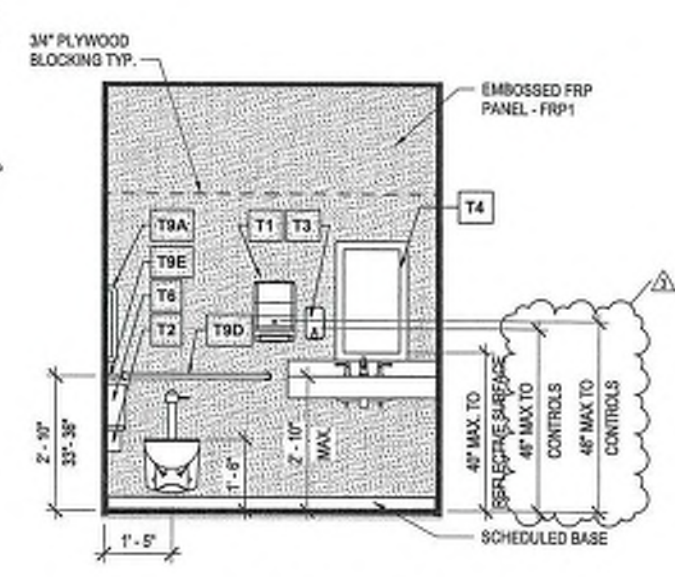
2 ENLARGED PLAN - UNISEX M130
A2-03 1/2" = 1'-0"



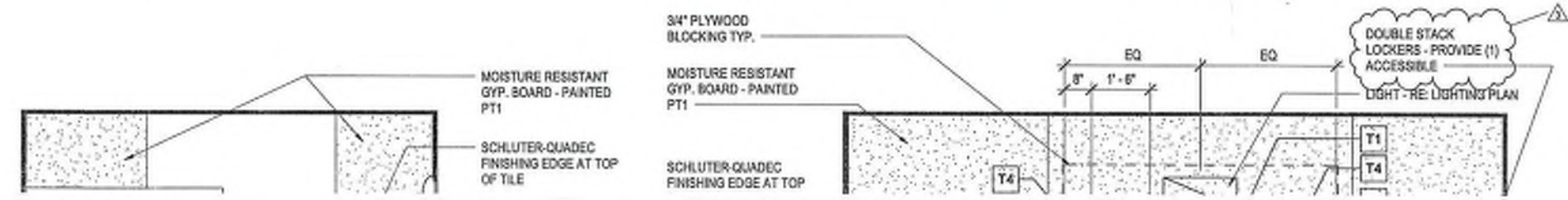
3 INTERIOR ELEVATION - MENS RESTROOM
A2-03 1/2" = 1'-0"



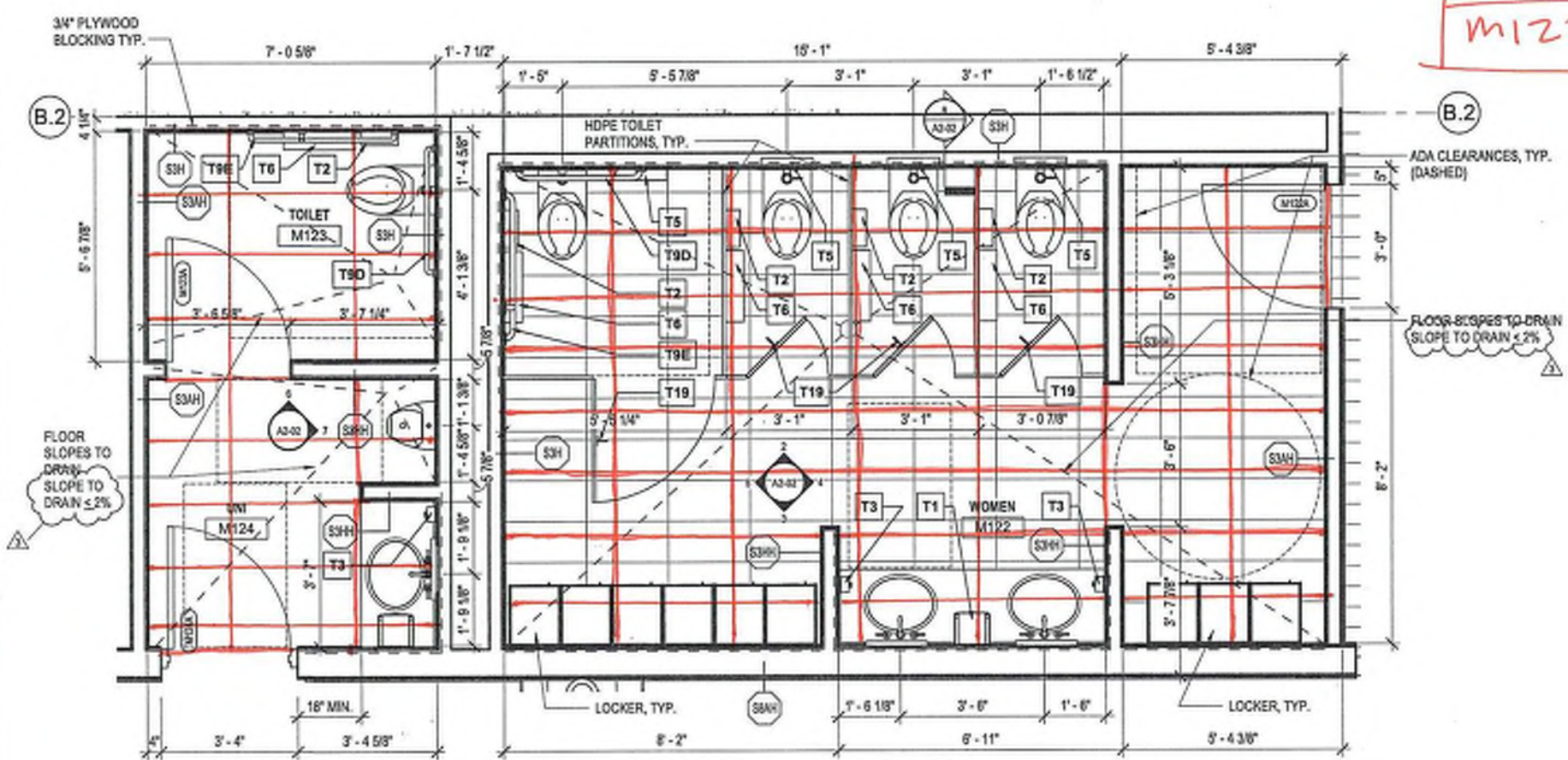
5 INTERIOR ELEVATION - MENS RESTROOM
A2-03 1/2" = 1'-0"



7 INTERIOR ELEVATION - UNISEX M130
A2-03 1/2" = 1'-0"



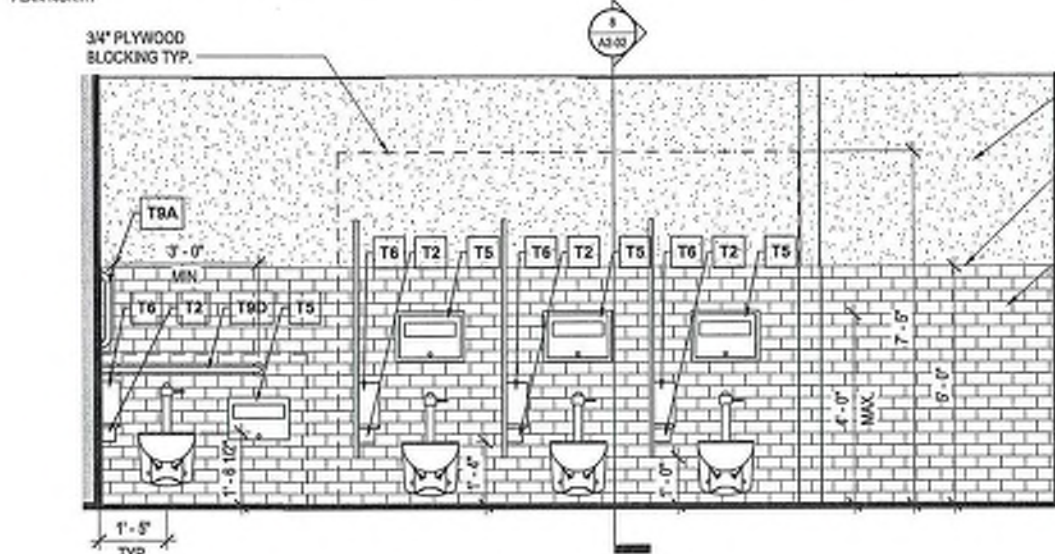
FLEET MAINTENANCE
M122/M123/M124



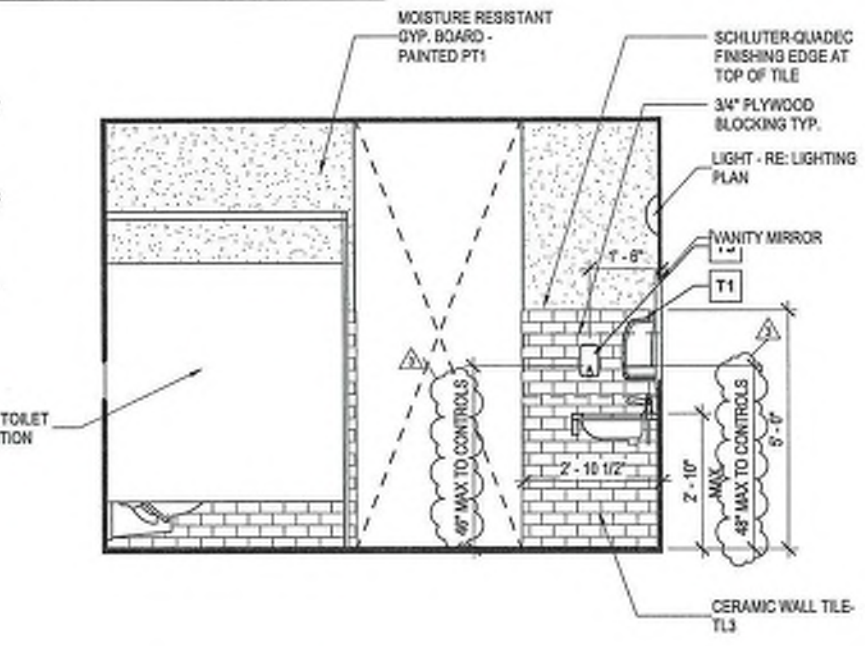
TOILET ACCESSORY LEGEND			
MARK	DESCRIPTION	MANUFACTURER	MODEL
T1	PAPER TOWEL DISPENSER - SURFACE MOUNTED	TORK USA	5510202
T2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
T3	SOAP DISPENSER	DEB STOKO	WRMILDS
T4	VANITY MIRROR	BOBRICK	B-290
T5	SEAT COVER DISPENSER - RECESSED	BOBRICK	B-221
T6	TOILET PAPER DISPENSER - SURFACE MOUNTED	TORK USA	5555200
T9	ACCESSIBLE GRAB BAR 12"	BOBRICK	B-6905.99
T9A	ACCESSIBLE GRAB BAR 18"	BOBRICK	B-6905.99
T9B	ACCESSIBLE GRAB BAR 24"	BOBRICK	B-6905.99
T9C	ACCESSIBLE GRAB BAR 36"	BOBRICK	B-6905.99
T9D	ACCESSIBLE GRAB BAR 42"	BOBRICK	B-6905.99
T9E	ACCESSIBLE GRAB BAR 48"	BOBRICK	B-6905.99
T18	MOP/BROOM HOLDER	BOBRICK	B-224 X 36
T19	COAT HOOK	BOBRICK	B-6707.99
T23	MOP SINK		
T24	SOAP DISH		
T25	CURTAIN ROD, SHOWER CURTAIN, CURTAIN...	BOBRICK	B-6047...

PARTITION TYPE LE	
BASIC MATERIAL:	
C	CONCRETE
M	MASONRY (CMU)
S	STUD
BASIC SIZE:	
0	7/8" FURRING CHANNEL
1	1 5/8" STUD
2	2 1/2" STUD
3	3 5/8" STUD
4	4" CONCRETE, MASONRY OR ST
6	6" CONCRETE, MASONRY OR ST
8	8" CONCRETE, MASONRY OR ST
APPLIED LAYERS:	
A	1 LAYER 5/8" GYPSUM BOARD
B	2 LAYERS 5/8" GYPSUM BOARD
C	1 LAYERS 1/2" GYPSUM BOARD
D	2 LAYERS 1/2" GYPSUM BOARD
E	RESERVED
F	1 LAYER 5/8" CEMENTITIOUS BA
G	1 LAYER 1/2" CEMENTITIOUS BA
H	1 LAYER 5/8" MOISTURE RESIST
J	1 LAYER 1/2" MOISTURE RESIST
K	SHAFTWALL CONSTRUCTION
PARTITION TYPE SYMBOL:	
BASIC MATERIAL	
BASIC SIZE	
APPLIED LAYERS	
MODIFYING CONC	
SSA.1	1 LETTER = LAYER
	2 LETTERS = LAYERS
MODIFYING CONDITIONS:	
1.	4" SOUND ATTENUATION BLANKET
2.	USE 6/8" TYPE "X" GYPSUM BOARD

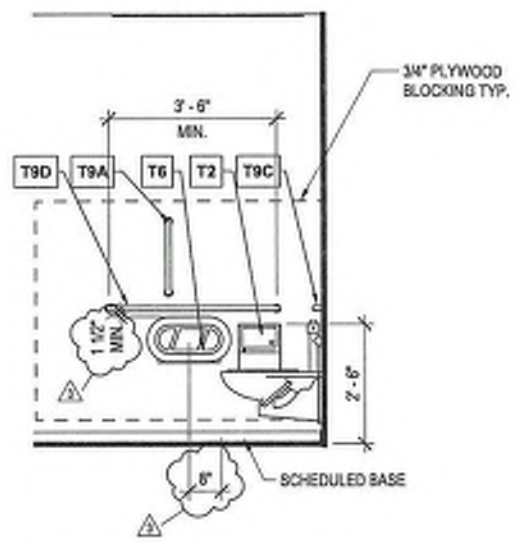
1 ENLARGED PLAN - WOMENS RESTROOM
1/2" = 1'-0"



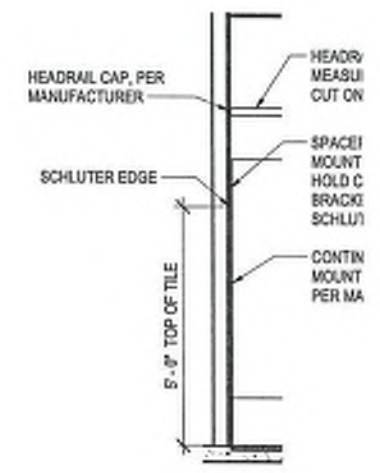
2 INTERIOR ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



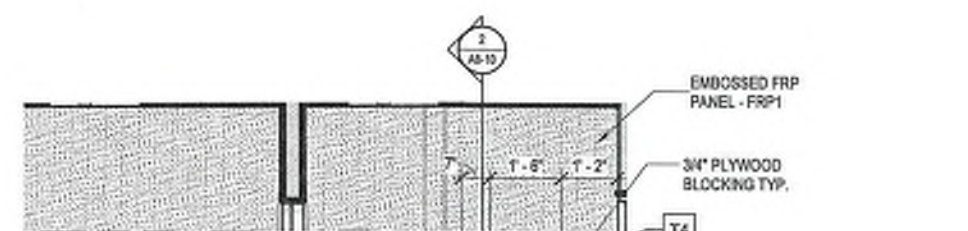
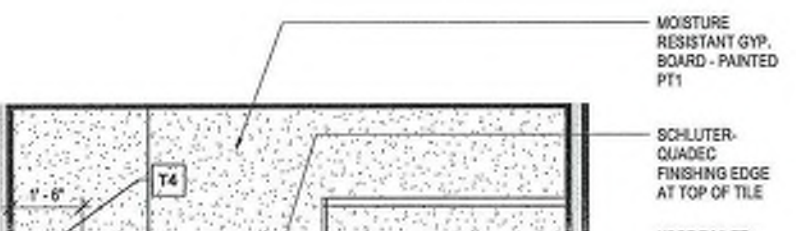
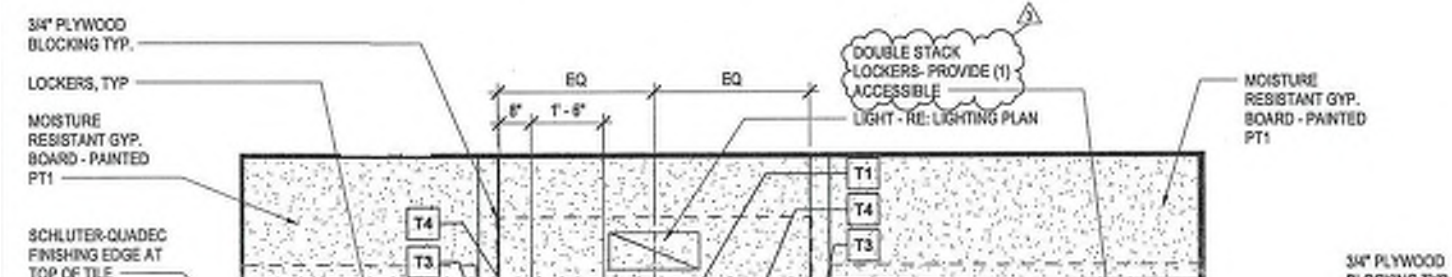
4 INTERIOR ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"

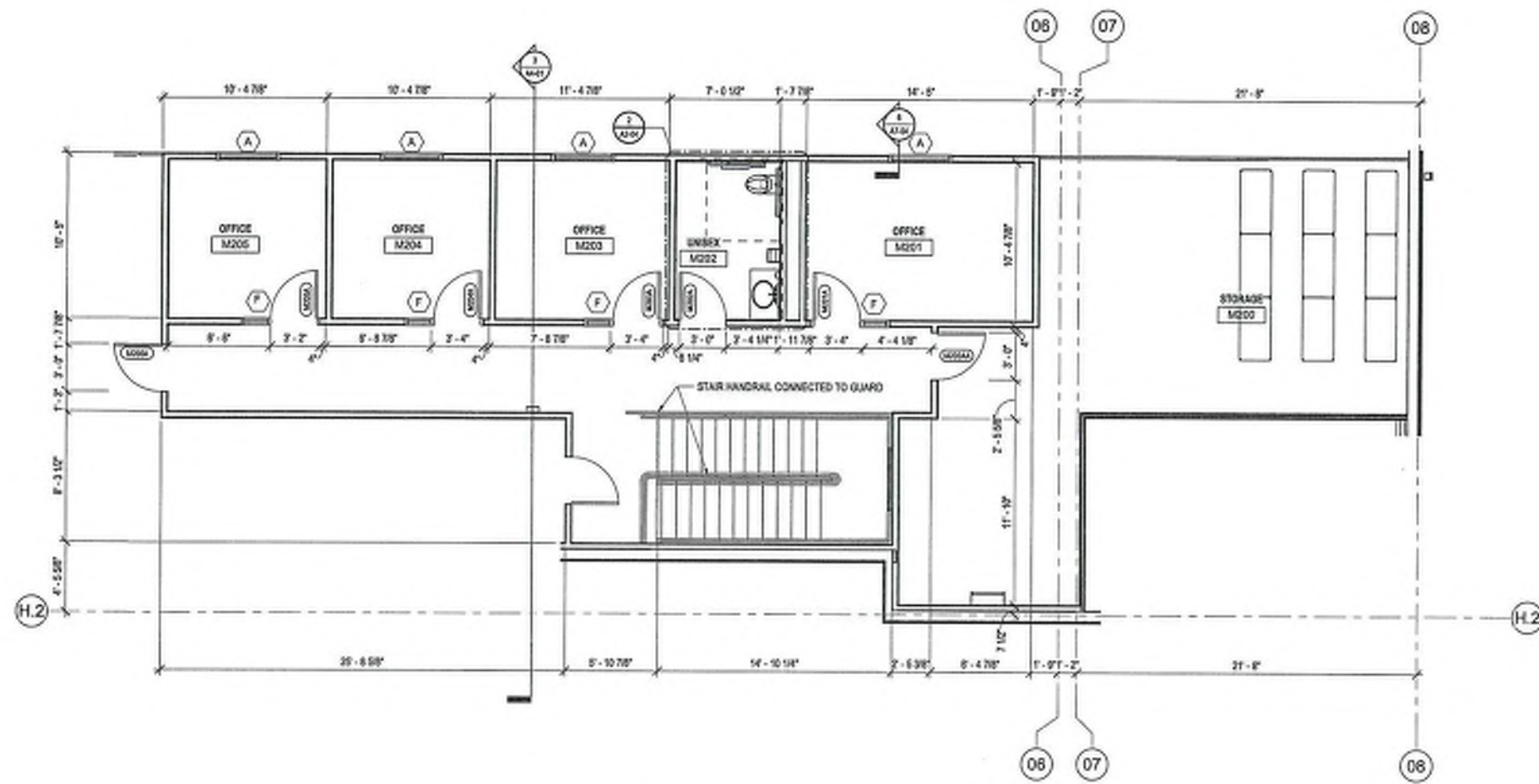


6 INTERIOR ELEVATION - TOILET M123
1/2" = 1'-0"



8 PARTITION ATTACHMENT
1/2" = 1'-0"

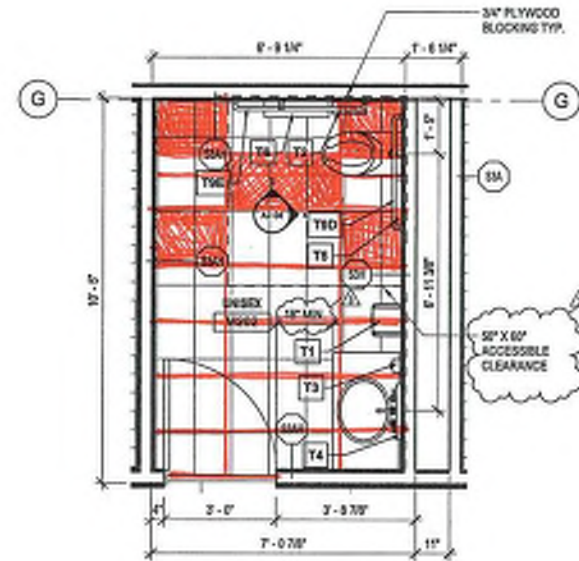




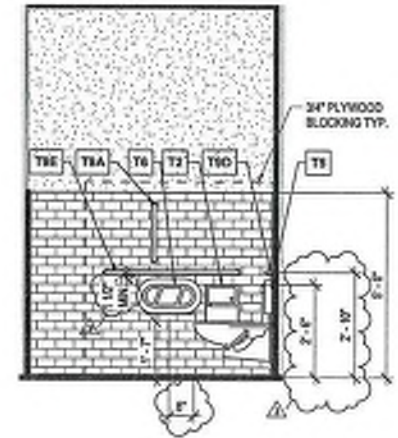
1
ENLARGED PLAN - LEVEL TWO - FLEET MAINTENANCE
1/4" = 1'-0"

FLEET MAINTENANCE
M202

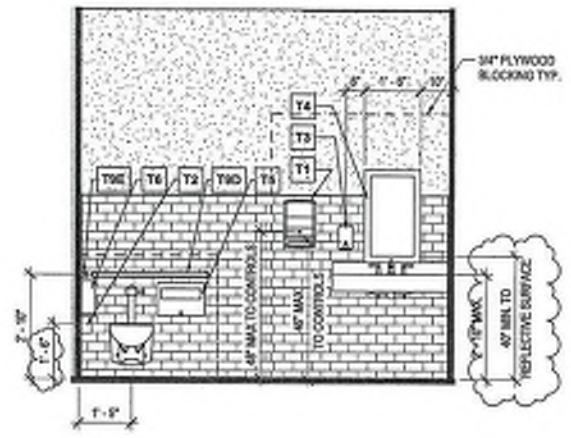
18 x 36 TILE



2
ENLARGED PLAN - UNISEX M202
1/2" = 1'-0"



3
INTERIOR ELEVATION - UNISEX M202
1/2" = 1'-0"



4
INTERIOR ELEVATION - UNISEX M202
1/2" = 1'-0"

PARTITION TYPE LEGEND

BASIC MATERIAL:
 C CONCRETE
 M MASONRY (CMU)
 S STUD

BASIC SIZE:
 0 3/4" FURRING CHANNEL
 1 1 1/2" STUD
 2 2 1/2" STUD
 3 3 1/2" STUD
 4 4" CONCRETE, MASONRY OR STUD
 6 6" CONCRETE, MASONRY OR STUD
 8 8" CONCRETE, MASONRY OR STUD

APPLIED LAYERS:
 A 1 LAYER 5/8" GYPSUM BOARD
 B 2 LAYERS 5/8" GYPSUM BOARD
 C 1 LAYER 1/2" GYPSUM BOARD
 D 2 LAYERS 1/2" GYPSUM BOARD
 E RESERVED
 F 1 LAYER 5/8" CEMENTITIOUS BACKER BOARD
 G 1 LAYER 1/2" CEMENTITIOUS BACKER BOARD
 H 1 LAYER 5/8" MOISTURE RESISTANT GYPSUM BOARD
 J 1 LAYER 1/2" MOISTURE RESISTANT GYPSUM BOARD
 K SHAPETALL CONSTRUCTION

PARTITION TYPE SYMBOL:
 BASIC MATERIAL
 BASIC SIZE
 APPLIED LAYERS CODE
 MODIFYING CONDITIONS CODE
 1 LETTER = LAYER ON ONE SIDE
 2 LETTERS = LAYER ON EACH SIDE

MODIFYING CONDITIONS:
 1 4" SOUND ATTENUATION BLANKETS IN STUD CAVITIES
 2 USE 5/8" TYPE "X" GYPSUM BOARD

FLOOR PLAN LEGEND

ROOM REFERENCE: ROOM NAME - ROOM NUMBER
 DOOR NUMBER: (D-41)
 WINDOW NUMBER: (W-41)
 PARTITION TYPE: (M-02)

TOILET ACCESSORY LEGEND

MARK	DESCRIPTION	MANUFACTURER	MODEL
T1	PAPER TOWEL DISPENSER - SURFACE MOUNTED	TORK USA	9813202
T2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
T3	SOAP DISPENSER	DEB STORO	WMFLDS
T4	VINTY MIRROR	BOBRICK	B-280
T5	SEAT COVER DISPENSER - RECESSED	BOBRICK	B-221
T6	TOILET PAPER DISPENSER - SURFACE MOUNTED	TORK USA	9332300
T8	ACCESSIBLE GRAB BAR 12"	BOBRICK	B-8806.89
T8A	ACCESSIBLE GRAB BAR 18"	BOBRICK	B-8806.89
T8B	ACCESSIBLE GRAB BAR 24"	BOBRICK	B-8806.89
T8C	ACCESSIBLE GRAB BAR 30"	BOBRICK	B-8806.89
T8D	ACCESSIBLE GRAB BAR 42"	BOBRICK	B-8806.89
T8E	ACCESSIBLE GRAB BAR 48"	BOBRICK	B-8806.89
T18	MOPROOM HOLDER	BOBRICK	B-224 X 38
T19	COAT HOOK	BOBRICK	B-6707.89
T23	MOP SINK		
T24	SOAP DISH		
T25	CURTAIN ROD, SHOWER CURTAIN, CURTAIN	BOBRICK	B-0047...

CITY OF NORMAN
 NORTH BASE COMPLEX - PHASE 1
 1310-1380 DA VINCI STREET
 NORMAN, OK

OWNER:
 CITY OF NORMAN, OKLAHOMA
 301 A FIRST GREAT STREET
 NORMAN, OKLAHOMA 73069
 (405) 769-5400
 www.normanok.gov

ARCHITECT:
 GSB, INC.
 2005 NW 5th Street, Suite 700N
 Oklahoma City, OK 73112
 (405) 848-8546
 www.gsb-inc.com

CIVIL ENGINEER:
 CIVIL ENGINEER & ASSOCIATES
 1 EAST SHERIDAN AVE. - STE. 800
 OKLAHOMA CITY, OKLAHOMA 73104
 (405) 238-8519
 www.civileng.com

STRUCTURAL ENGINEER:
 WEAVER ENGINEERING
 410 NORTH WALNUT AVE. - 6TH. 208
 OKLAHOMA CITY, OKLAHOMA 73104
 (405) 238-8588
 www.wveng.com

M/P ENGINEER:
 ALLEN CONSULTING, INC.
 110 NORTH MERCED DRIVE
 NORMAN, OK 73069
 (405) 859-7700
 www.alleninc.com

ELECTRICAL ENGINEER:
 NORMAN ASSOCIATES ENGINEERS
 1006 COURAGE DRIVE
 NORMAN, OKLAHOMA 73071
 (405) 851-2528
 www.naeinc.com

LANDSCAPE ARCHITECT:
 PLANNING DESIGN GROUP
 2314 SOUTH TALE AVE. - STE. 610
 TULSA, OKLAHOMA 74118
 (918) 528-1288
 www.planningdesigngroup.com

CITY OF NORMAN
 NORTH BASE COMPLEX - PHASE 1
 1310-1380 DA VINCI STREET
 NORMAN, OK

gsb
 2005 NW 5th Street
 Suite 700N
 Oklahoma City, OK 73112
 T: 405-848-8546
 F: 405-848-8540
 www.gsb-inc.com

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REVISIONS

NO.	DATE	DESCRIPTION
3	10/21/2020	Revision 3

GSB PROJECT NO.
191650

DRAWING TITLE
ENLARGED FLOOR PLANS -
FLEET MAINTENANCE

DATE
6/28/2020

DRAWING NO.

A2-04

(A2-04) REPLACE: Replace current Sheet A2-04 - Enlarged Floor Plans Fleet Maintenance - with attached Revision 3 - Sheet A2-04 - dated 10/21/20. Reopened out doors for ADA.

**CHANGE TO
SLIDING GLASS
WINDOW
BETWEEN
ROOMS M119 &
M121**

Phillip Gunderson

From: Brooke Clevenger <bclevenger@tepcoglass.com>
Sent: Thursday, September 9, 2021 3:31 PM
To: Phillip Gunderson
Cc: Cory Wagoner; Kenneth Rice
Subject: FW: Norman North - Change Order Sliding Window

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Green Category

Phillip,

The cost of this window will be \$1005.00. If approved, Ken will send something formal when he returns on Monday.

Let us know, thank you!

Brooke Clevenger
TEPCOGLASS, LLC
7915 SW 34th Street | Oklahoma City, OK 73179
C (405) 613-3461
bclevenger@tepcoglass.com

This email and any files transmitted with it are confidential and intended solely for the addressee. If you are not the named addressee you should not disseminate, distribute, copy, or alter this email.

 Please consider your impact on the environment before printing this e-mail

From: Brooke Clevenger
Sent: Thursday, September 9, 2021 10:33 AM
To: David Bell <dbell@tepcoglass.com>; Kenneth Rice <krice@tepcoglass.com>; Roy Williams <rwilliams@tepcoglass.com>
Subject: RE: Norman North

From: David Bell
Sent: Wednesday, September 8, 2021 12:15 PM
To: Kenneth Rice <krice@tepcoglass.com>; Roy Williams <rwilliams@tepcoglass.com>; Brooke Clevenger <bclevenger@tepcoglass.com>
Subject: Fwd: Norman North

David Bell | Superintendent
TEPCOGLASS, LLC
[7915 SW 34th Street | Oklahoma City, OK 73179](#)
F (405) 227-9105 | C (405) 921-6477
dbell@tepcoglass.com | www.Tepcoglass.com [tepcoglass.com]

From: Phillip Gunderson <phillip.gunderson@flintco.com>
Sent: Wednesday, September 8, 2021 12:11:58 PM
To: dbell@tepcoglass.com <dbell@tepcoglass.com>
Cc: Cory Rackley <crackley@flintco.com>; Zack Blair <zblair@flintco.com>; djames@tepcoglass.com <djames@tepcoglass.com>
Subject: RE: Norman North

EXTERNAL EMAIL - Please Handle Cautiously

Good afternoon David,

Wanted to follow up on the pricing request to change the window between rooms M119 & M121 in the Fleet building to a sliding glass window.

We need pricing ASAP (**no later than 9/10**).

Thank you,

From: Phillip Gunderson
Sent: Wednesday, August 25, 2021 5:43 PM
To: dbell@tepcoglass.com
Cc: Cory Rackley <CRackley@flintco.com>; Zack Blair <zblair@flintco.com>
Subject: FW: Norman North
Importance: High

David,

Wanted to make sure this was on your radar with Kenneth being out.

Can you please provide pricing and shops/details for the requested window change below.

Thank you,

From: Kenneth Rice <krice@tepcoglass.com>
Sent: Friday, August 6, 2021 4:49 PM
To: Phillip Gunderson <phillip.gunderson@flintco.com>
Cc: Zack Blair <zblair@flintco.com>; Cory Rackley <crackley@flintco.com>
Subject: Re: Norman North

Yes Sir this can easily be done.

Get [Outlook for Android \[aka.ms\]](#)

From: Phillip Gunderson <phillip.gunderson@flintco.com>
Sent: Friday, August 6, 2021 4:36:59 PM
To: Kenneth Rice <krice@tepcoglass.com>
Cc: Zack Blair <zblair@flintco.com>; Cory Rackley <crackley@flintco.com>
Subject: RE: Norman North

EXTERNAL EMAIL - Please Handle Cautiously

Afternoon Kenneth,

Please see the attached RFI. They would like to change the window between rooms M119 & M121 in the Fleet building to a sliding glass window.

We have already install a hollow metal frame, but wanted to see if we could still install the sliding glass window without removing the frame.

Please review, advise and provide cost accordingly.

Thank you,

Phillip Gunderson

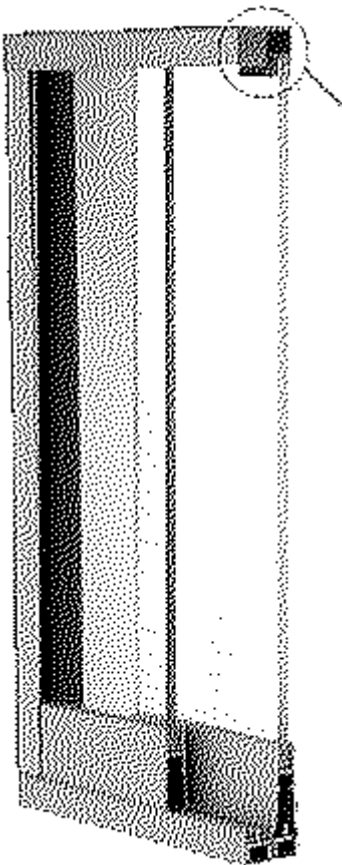
From: Kenneth Rice <krice@tepcoglass.com>
Sent: Monday, September 13, 2021 9:49 AM
To: Phillip Gunderson
Cc: David Bell
Subject: Slider

Follow Up Flag: Follow up
Flag Status: Flagged

Phillip,

This is the slider that will work inside the hollow metal frame , Let me know if this is approved.

Thanks,



Kenneth Rice | Project Manager

TEPCOGLASS, LLC.

7915 SW 34th Street | Oklahoma City, OK 73179

T (405) 246-9334 | F (405) 227-9105 | C (512) 585-3024

krice@tepcoglass.com | www.Tepcoglass.com



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Pass Thru Window Change

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Ethan Treisa Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	08/06/2021	STATUS:	Open
REFERENCE:		DUE DATE:	08/17/2021
COST IMPACT:	TBD		
LINKED DRAWINGS:		RECEIVED FROM:	
COPIES TO: Zack Blair (Flintco, LLC - OKC), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Sarah Hendrickson (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.)			

Question from Ethan Treisa (Flintco, LLC - OKC) at 02:43 PM on 08/06/2021

Per attached email correspondence with GSB, Flintco, and ADG regarding the pass thru window between Embark Dispatch M119 and Embark Lounge M121, it was requested that this window be changed from the fixed type E window to a sliding window. Please confirm this change is acceptable.

Attachments:
[North Base - RFI #48 - Attachment.pdf](#)

Official Response

Awaiting an Official Response

All Replies: [ARCHITECT RESPONSE | 2021 08 06:](#)

CONFIRMED. CHANGE FROM TYPE E FIXED WINDOW TO TYPE G, SLIDING GLASS WINDOW BETWEEN M119 & M121.


MICHAEL SEGROVES, AIA / AICP
PROJECT ARCHITECT | GSB, INC. ARCHITECTS & PLANNERS

Zack Blair
Superintendent
Flintco, LLC
(405) 835-6369 (d) // (405) 605-9303 (c)
www.flintco.com



From: Michael Segroves <msegroves@gsb-inc.com>
Sent: Thursday, August 5, 2021 1:40 PM
To: Zack Blair <zblair@flintco.com>; Phillip Gunderson <phillip.gunderson@flintco.com>
Subject: RE: Fleet Drivers Lounge Window | 191650-City of Norman-North Base Complex (CA)

We need to change that out to a sliding window, same manufacturer as the lobby / admin window

 Michael Segroves | msegroves@gsb-inc.com
www.gsb-inc.com [gsb-inc.com]

From: Zack Blair <zblair@flintco.com>
Sent: Thursday, August 5, 2021 1:39 PM
To: Michael Segroves <msegroves@gsb-inc.com>; Phillip Gunderson <phillip.gunderson@flintco.com>
Subject: RE: Fleet Drivers Lounge Window | 191650-City of Norman-North Base Complex (CA)

We have it as a fixed Type E window.

Zack Blair
Superintendent
Flintco, LLC

(405) 835-6369 (d) // (405) 605-9303 (c)


www.flintco.com



From: Michael Segroves <msegroves@gsb-inc.com>
Sent: Thursday, August 5, 2021 1:24 PM
To: Phillip Gunderson <phillip.gunderson@flintco.com>
Cc: Zack Blair <zblair@flintco.com>
Subject: Fleet Drivers Lounge Window | 191650-City of Norman-North Base Complex (CA)

Phillip / Zack:

See highlight below – do you have this window down as a slider or fixed

 Michael Segroves | msegroves@gsb-inc.com
www.gsb-inc.com [gsb-inc.com]

From: Susan Perkins <sperkins@adgokc.com>
Sent: Monday, August 2, 2021 6:48 PM
To: Michael Segroves <msegroves@gsb-inc.com>
Cc: Sarah Margaret Hendrickson <shendrickson@adgokc.com>; Paul D'Andrea <Paul.Dandrea@NormanOK.gov>; Abigail Vaz <avaz@adgokc.com>
Subject: RE: CAD File | 191650-City of Norman-North Base Complex (CA)

Michael,

I wanted to reach out again about the questions below. We're working quickly on the furniture layouts, and I need to verify any built-in storage in the two spaces mentioned.

Also, today we met with the Embark Tenants. They mentioned that the **window between Embark Dispatch M119 and Embark Lounge M121 was a sliding pass-through window.** The model I have just shows a 7' – 8" wide fixed window. Can you let me know if a portion of this is sliding? With the amount and types of furniture they're requesting in the lounge, I will probably need to put some furniture below the window, but I don't want to block the use of the pass-thru.

Please get back to me as soon as you can on these. Furniture lead times seem to be getting longer and longer lately. Thanks for your help!

ADDITION OF CURBS FOR ROOF HYDRANTS



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #007: CE #008 - Curbs for Roof Hydra

TO:	Flintco	FROM:	Orcutt Mechanical Contractors 6200 NW 39th Expressway Oklahoma City, Oklahoma 73008
PCO NUMBER/REVISION:	007 / 0	CONTRACT:	1 - North Base Fleet Contract Prime Contract
REQUEST RECEIVED FROM:		CREATED BY:	Matthew Weber (Orcutt Mechanical Contractors)
STATUS:	Pending - In Review	CREATED DATE:	9/13/2021
REFERENCE:		PRIME CONTRACT CHANGE ORDER:	None
FIELD CHANGE:	No		
LOCATION:		ACCOUNTING METHOD:	Amount Based
SCHEDULE IMPACT:		PAID IN FULL:	No
EXECUTED:	No	SIGNED CHANGE ORDER RECEIVED DATE:	
		TOTAL AMOUNT:	\$3,960.00

POTENTIAL CHANGE ORDER TITLE: CE #008 - Curbs for Roof Hydra

CHANGE REASON: Client Request

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

CE #008 - Curbs for Roof Hydrants

Fabricate 6 flat roof curbs to hold the roof hydrants. We will assist in mounting these however the persons installing the other curbs will have to cut them in we will spot the curbs. Roofer will have to seal curbs to maintain their warranty. Cost per curb \$600.00 x 6 = \$3,600.00 x 10% OHP = \$3,960.00

ATTACHMENTS:

\$1,980.00 per building (3 on each roof)

Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Roof Hydrant Mounting Detail

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	08/18/2021	STATUS:	Open
REFERENCE:		DUE DATE:	08/27/2021
COST IMPACT:	Yes (Unknown)	SCHEDULE IMPACT:	TBD
LINKED DRAWINGS:		RECEIVED FROM:	Matt Orcutt (Orcutt Mechanical Contractors, Inc.)

COPIES TO:

Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.), Ethan Treisa (Flintco, LLC - OKC)

Question from Zack Blair (Flintco, LLC - OKC) at 03:07 PM on 08/18/2021

Reference attached SK1 which includes the roof hydrant product data and the plumbing fixture schedule from sheet M5-02 P6A Roof Hydrant - The plumbing fixture schedule on sheet M5-02 notes for the roof hydrant to be mounted as indicated on detail, however no detail has been provided. The hydrant that is specified and submitted and approved is made for a roof with a slope less than 2 degrees, which our roof exceeds.
Flintco proposes to make a curb for each hydrant (6 total). The curb would essentially be a false curb that creates a flat surface to mount the hydrant.
1) Please provide a detail if the curb option is acceptable, including finish requirements.
Attachments:
[RFI #054-SK1.pdf](#)

Official Response

Awaiting an Official Response

All Replies:

ACI Response:

Detail was left off sheet in error. Please refer to attached page.

Proposed solution is acceptable. Detail 1 is for the roof hydrant. Detail 2 is for the roof curb, with a hydrant as the piece of equipment to be installed on the curb.

Isaac Marrone 8-19-21

Plumbing Fixture Schedule


MARK	FIXTURE	MANUFACTURER MODEL	SIZE/MOUNT	ROUGH-IN SCHEDULE						ELECTRICAL CONNECTION	FITTINGS & REMARKS
				CW	HW	WASTE	VENT	AIR			
P-1	WATER CLOSET	KOHLER K-4325	WALL HUNG	1"	-	4"	2"	-	-	Y	PROVIDE PROFLO PFTSCOFH2000WH HEAVY DUTY COMMERCIAL SEAT, SLOAN 111 SFSM-1.6 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-1A	WATER CLOSET ADA	KOHLER K-4325	WALL HUNG 18" HIGH	1"	-	4"	2"	-	-	Y	PROVIDE PROFLO PFTSCOFH2000WH HEAVY DUTY COMMERCIAL SEAT, SLOAN 111 SFSM-1.6 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-2	URINAL	KOHLER K-4991-ET	WALL HUNG	3/4"	-	2"	1 1/2"	-	-	Y	PROVIDE SLOAN 186 SFSM-0.25 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-2A	URINAL ADA	KOHLER K-4991-ET	WALL HUNG	3/4"	-	2"	1 1/2"	-	-	Y	PROVIDE SLOAN 186 SFSM-0.25 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-3	LAVATORY ADA	KOHLER K-2005	WALL HUNG	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	KOHLER K-7404-SA FAUCET WITH BLADE HANDLES, SUPPLY STOPS, SUPPLY LINES, K-7129 GRID STRAINER W/ OFFSET P-TRAP, ACORN MODEL S170 ASSE 1070 MIXING VALVE, FLOOR MOUNTED CARRIER, AND TRUEBRO LAV SHIELD. MOUNT AT ADA HEIGHT.
P-3A	LAVATORY ADA	KOHLER K-2196	20"x17" COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	KOHLER K-7404-SA FAUCET WITH BLADE HANDLES, SUPPLY STOPS, SUPPLY LINES, K-7129 GRID STRAINER W/ OFFSET P-TRAP, ACORN MODEL S170 ASSE 1070 MIXING VALVE, AND TRUEBRO LAV SHIELD. MOUNT AT ADA HEIGHT.
P-3B	SHOP WASHFOUNTAIN ADA	BRADLEY TDB3103	FLOOR 36" SEMI-CIRCLE	1/2"	1/2"	2"	1 1/2"	-	-	Y	INFRARED SENSOR ACTIVATED FAUCETS, PROVIDE 110V PLUG IN TRANSFORMER, ALL NECESSARY MOUNTING HARDWARE, ASSE 1070 THERMOSTATIC MIXING VALVE, SUPPLY STOPS, SUPPLY LINES, OFFSET TAILPIECE, & P-TRAP.
P-4B	SERVICE SINK (SQUARE)	FIAT TSB3000	FLOOR 24x24x12	3/4"	3/4"	3"	2"	-	-	-	T&S BRASS MODEL B-0665-BSTP FAUCET, 832-AA HOSE & BRACKET, 889-CC MOP BRACKET, MSG 2424 STAINLESS STEEL WALL GUARD, PROVIDE CHECK VALVES IN HOT AND COLD WATER LINES ABOVE CEILING PRIOR TO FAUCET.
P-5	BH-LEVEL ADA WATER COOLER / BOTTLE FILLER	ELKAY LVRCORNTLSWSK	WALL HUNG	1/2"	-	1 1/2"	1 1/2"	-	-	Y	8.0 GPH @ 50 DEGREE WATER, 120V/1PH, 260 WATTS, 4.0 AMP. VANDAL RESISTANT STAINLESS STEEL CABINET, PROVIDE P-TRAP, SUPPLY STOP, & FLOOR MOUNTED IN WALL CARRIER.
P-6	FREEZE PROOF WALL HYDRANT	WOODFORD B67	WALL	3/4"	-	-	-	-	-	-	MOUNT AT 30" ABOVE GRADE, PROVIDE TWO TEE KEYS TO OWNER. PROVIDE ISOLATION BALL VALVE ON BRANCH LINE.
P-6A	ROOF HYDRANT	WOODFORD SRH-MS	ROOF	3/4"	-	-	-	-	-	-	MOUNT AS INDICATED ON DETAIL. PROVIDE ISOLATION BALL VALVE ON BRANCH LINE. PROVIDE DECK CLAMP.
P-6B	SHOP HYDRANT	WOODFORD 24	WALL	3/4"	-	-	-	-	-	-	MOUNT AT 30" ABOVE FLOOR.
P-7	WASHER BOX	GUY GREY	WALL RECESSED	1/2"	1/2"	2"	1 1/2"	-	-	-	STAINLESS STEEL BOX AND FACEPLATE - 304 S.S., 1/4 TURN BALL VALVE W/ HAMMER ARRESTORS.

The Woodford, ASSE 1057 listed, SRH Roof Hydrant is intended to provide water, in any weather condition, on roofs for window washing, cleaning of condenser coils, cooling towers, green roofs and other types of roof top equipment. The SRH is backflow protected with a field testable ASSE 1052 double check backflow preventer.


The SRH does not require a drain line from the valve body located inside the building.

The SRH-MS with Mounting System allows for installation flexibility. It is not necessary to install hydrant when hydrant support is mounted to the roof. The hydrant support utilizes a 3" diameter opening that allows the hydrant to be installed or easily removed at a later time. All necessary mounting hardware for proper installation on a commercial roof is supplied, including a 2 degree shim for pitch adjustment.

Hydrant Features:

- ASSE 1057 Listed 
- No Drain Line Required - *With the hose removed, a venturi action draws water out of the internal reservoir and discharges out the backflow preventer.*
- Superior reservoir evacuation times without removing the backflow preventer.
- Variable flow plunger for longer life is not easily damaged and assures proper shut-off.
- Large easy to open lift handle.
- Adjustable link for easy adjustment and positive lever lock tension.
- All hydrant repairs can be made from top without removing hydrant.

Specifications:

- Hose Connection Backflow Preventer:
 - Model 50H with 3/4" hose connection
 - ASSE 1052 Listed 
 - Field Testable Dual Check holds against 125 psi backflow pressure
- 3/4" NPT female inlet connection.
- 1 1/2" U.S. made galvanized pipe.
- **Maximum Working Pressure:** 100 p.s.i.
- **Maximum Temperature:** 120° F

SRH WARNING	Supply PSI	Run Time
After each use, run hydrant without a hose to ensure proper evacuation.	60	5 seconds
	25	15 seconds

Mounting System: *(Can be ordered Separately)*

- Cast iron Hydrant Support
- Cast iron Under Deck Flange
 - 4 bolts draw tight against the roof decking and the hydrant support.
 - 3 clamp screws tighten against the hydrant pipe to secure the hydrant's vertical position through the roof.
- Well Seal seals tight between the hydrant support and hydrant pipe.
- EPDM Boot covers well seal and top of hydrant support.
- 2° Shim is supplied, if needed, for installation on pitched roofs.

Manufactured under U.S. patent 7,472,718; 7,730,901 and patents pending.

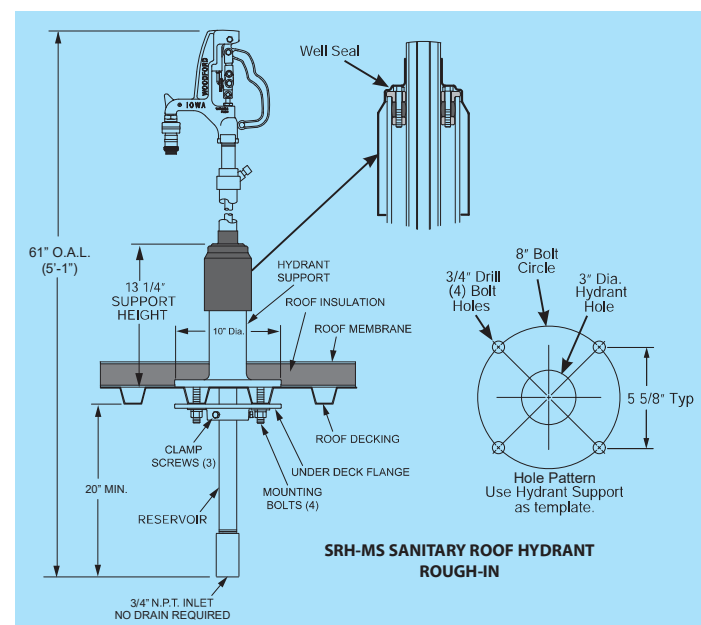
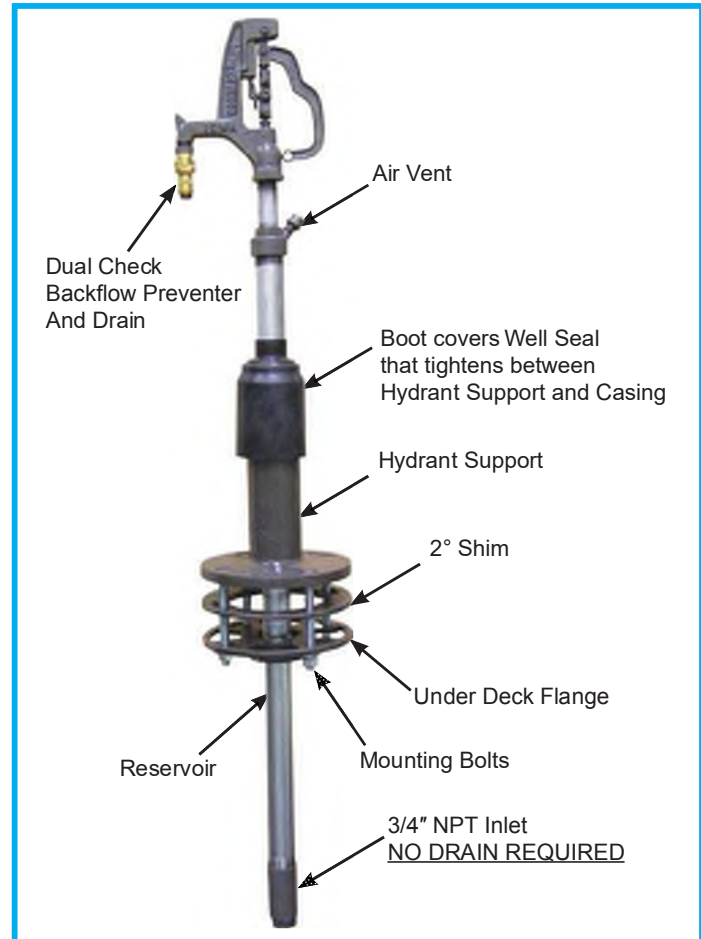
For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032



Freezeless Sanitary Roof Hydrant No Drain Line Required!

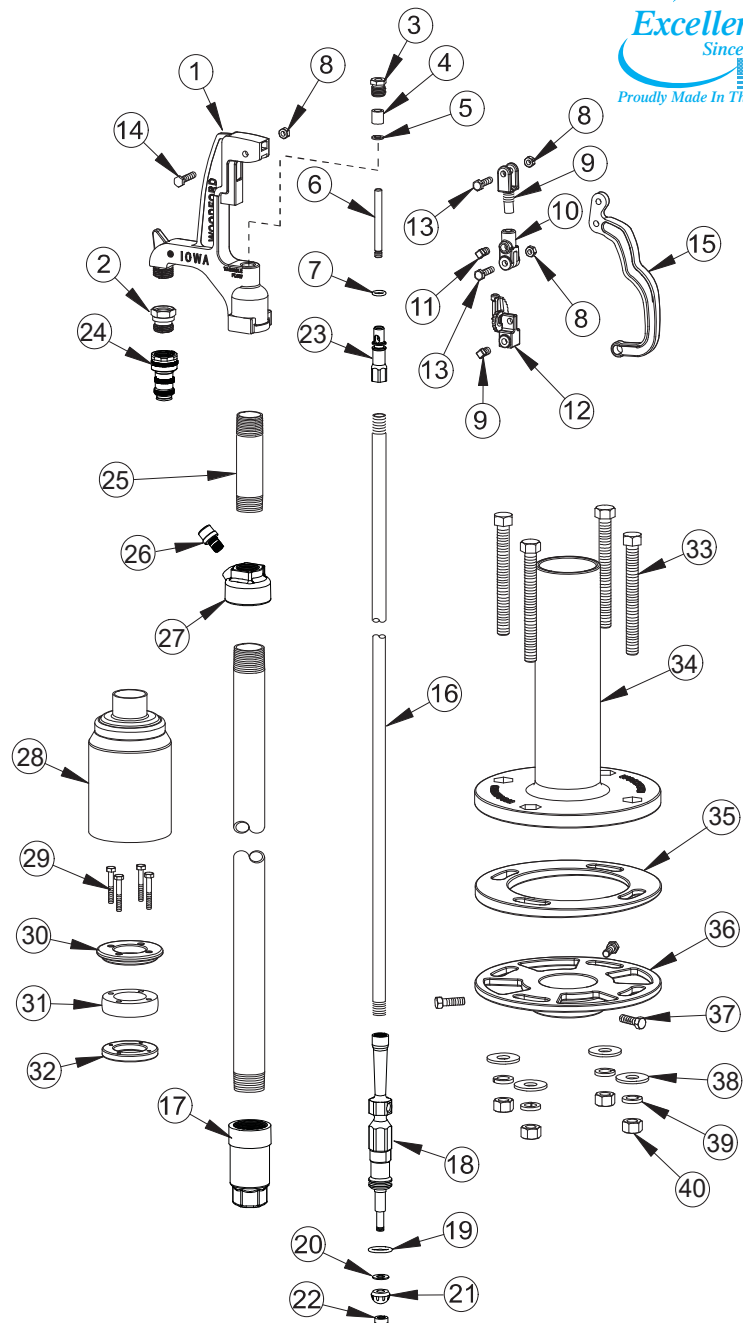
Model SRH-MS

Can be ordered with or without Mounting System (MS).



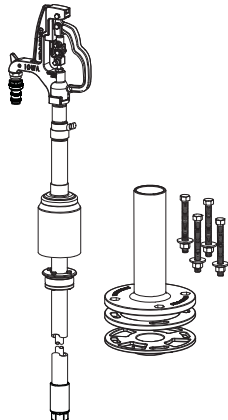
MODEL SRH-MS PARTS LIST

ITEM	PART#	DESCRIPTION
	15126	SRH Head Assembly (Includes Items 1-15, 23 & 24)
1	10632	SRH Head
2	10004	3/4" Brass Hose Nozzle
3	10100	Packing Nut
4	10101	Packing
5	10102	Packing Support Washer
6	15121	Brass Rod Stem
7	10117	O-Ring - 206
8	10206	Hex Nut (3)
9	10614	RH Upper Link
10	15242	RH Lower Link (Includes Item 11)
11	10019	Set Screw (2)
12	15243	RH Cam & Clevis Assembly
13	10020	Link Bolt (2)
14	10021	Lever Bolt
15	10613	RH Lever
16	10024	Operating Pipe
17	15122	Valve Body (3/4" NPT Inlet)
18	15123	Venturi Assembly
19	10118	Valve Body O-Ring
20	50027	Support Washer
21	51013	Ball Valve Rubber
22	50028	Round Brass Nut
23	10116	Sealing Head Coupling
24	50H-BR	50H Backflow Preventer
25	15120	Upper Pipe Assembly
26	15124	SRH Vent Assembly
27	15125	SRH Casing Cover
28	10608	RH Boot, EPDM
29	10625	Bolt, Allen Head 1/4-20 X 1 3/4" (4)
30	10626	Well Seal-1 1/2", Top
31	10119	Well Seal-1 1/2", EPDM
32	10627	Well Seal-1 1/2", Bottom
33	10584	Bolt, Hex Head 5/8-11 X 6" (4)
34	10579	Hydrant Support, Casting
35	10581	2" Shim, Casting
36	10580	Under Deck Flange
37	10607	Screw, Clamp 3/8-16 Hex Head X 1 3/4" (3)
38	10604	Washer, Plain 5/8 (4)
39	10605	Washer, Lock 5/8 (4)
40	10585	Nut, Hex 5/8-11 UNC (4)
	RK-SRH	Repair Kit (Includes items 3-7, 19-22)
	RK-RHL	Repair Kit (Includes items 8-15)



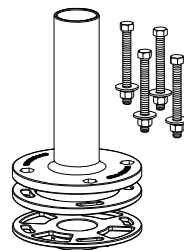
When ordering, specify SRH part number option listed below.

Part# SRH-MS Consists of the complete Roof Hydrant system:
 Qty. 1 SRH Hydrant shipped in 1 carton.
 Qty. 1 RH-MS Mounting System shipped in 1 carton.



Total Shipping Wt.
 2 cartons: 50 lbs

Part# RH-MS Carton contents consists of:
 Mounting System/
 Rough-In Components (Parts 33-40 above)
 • Hydrant Support
 • 2" Shim,
 • Under Deck Flange
 • Mounting Bolts, Nuts, Washers.
 Shipped in 1 Carton.
 Shipping Wt. - 30 lbs

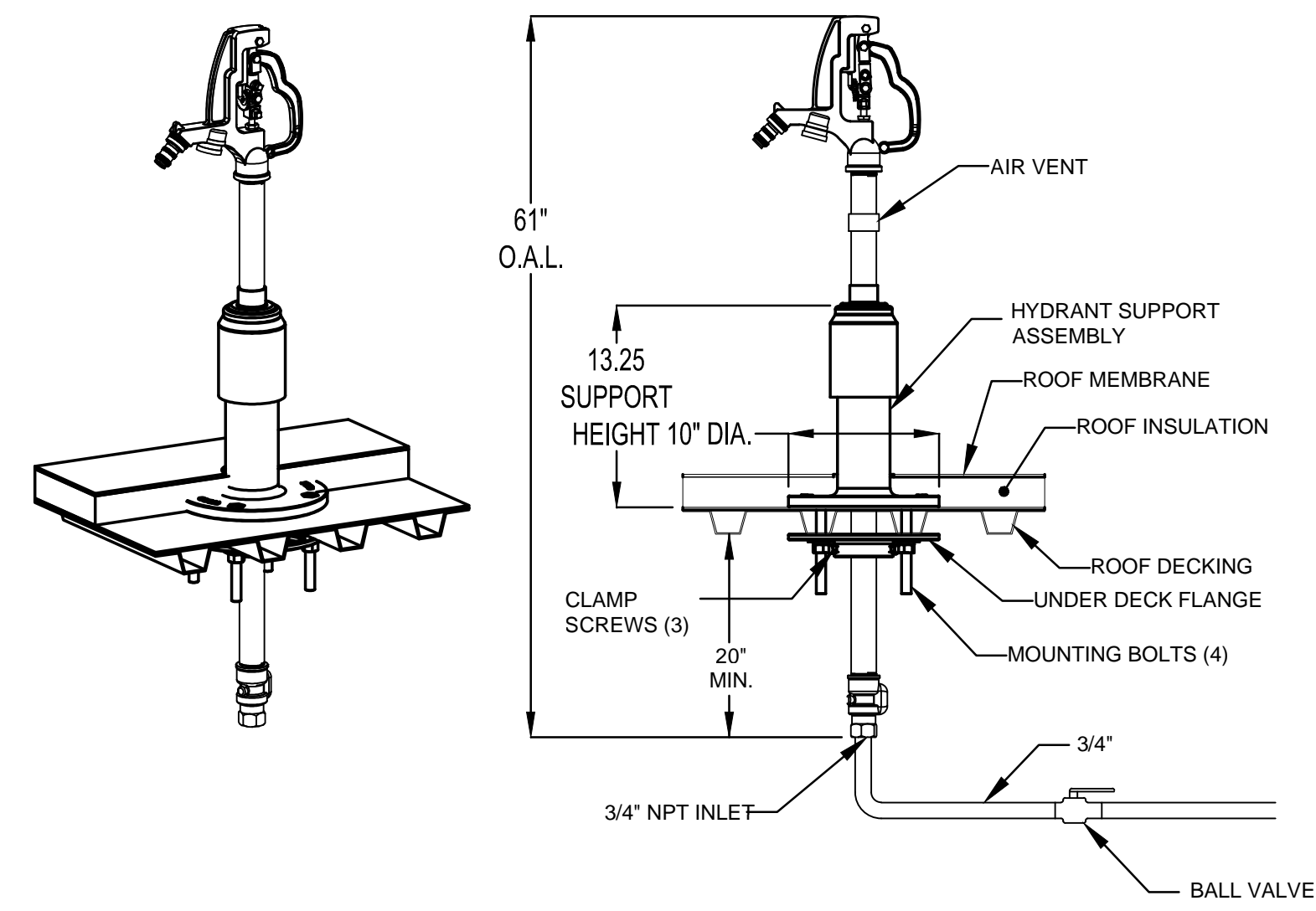


Part# SRH Carton contents consists of:
 • Hydrant Assembly (Parts 1-32 above)
 • Well Seal (Parts 28-32 above)
 • Boot (Part 28 above)
 Shipped in 1 Carton.
 Shipping Wt. - 20 lbs



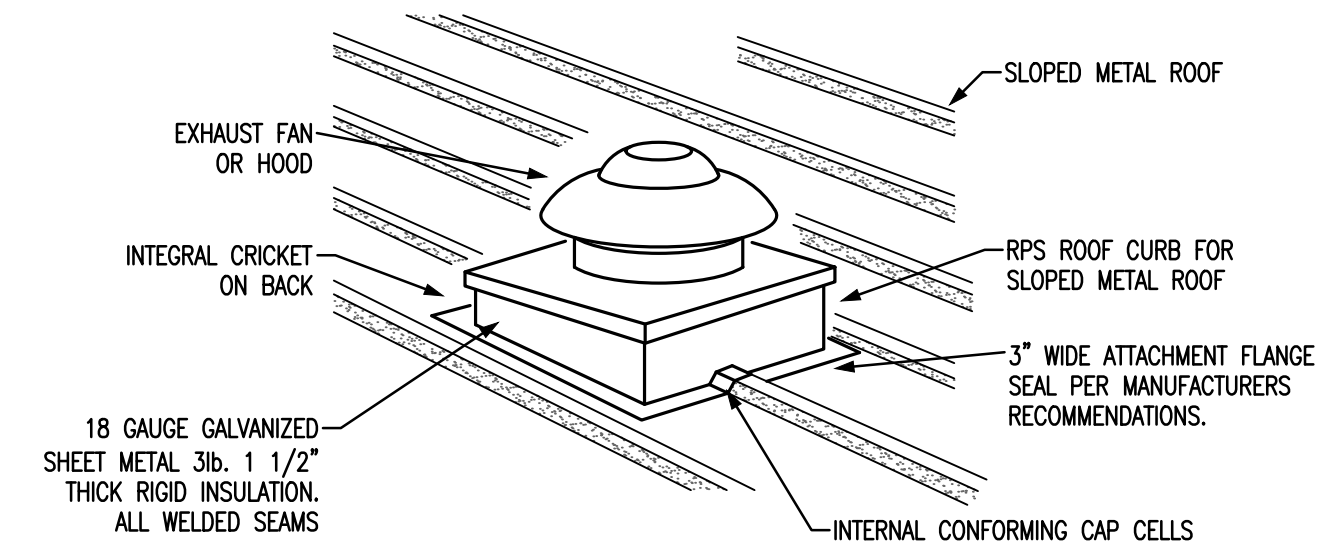
For more information contact...

WOODFORD MANUFACTURING COMPANY



1 ROOF HYDRANT DETAIL

SCALE: NTS
REFER:



2 EQUIPMENT ROOF CURB DETAIL

SCALE: NTS
REFER:

TAC CONDUIT SIZING CHANGE



Orcutt Mechanical Contractors
 6200 NW 39th Expressway
 Oklahoma City, Oklahoma 73008
 Phone: 405 787 5888 ext202

PCO #008

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #008: CE #009 - cONDENSATE pIPING uP

TO:	Flintco	FROM:	Orcutt Mechanical Contractors 6200 NW 39th Expressway Oklahoma City, Oklahoma 73008
PCO NUMBER/REVISION:	008 / 0	CONTRACT:	1 - North Base Fleet Contract Prime Contract
REQUEST RECEIVED FROM:		CREATED BY:	Matthew Weber (Orcutt Mechanical Contractors)
STATUS:	Pending - In Review	CREATED DATE:	9/14/2021
REFERENCE:		PRIME CONTRACT CHANGE ORDER:	None
FIELD CHANGE:	No		
LOCATION:		ACCOUNTING METHOD:	Amount Based
SCHEDULE IMPACT:		PAID IN FULL:	No
EXECUTED:	No	SIGNED CHANGE ORDER RECEIVED DATE:	
		TOTAL AMOUNT:	\$1,128.00

POTENTIAL CHANGE ORDER TITLE: CE #009 - cONDENSATE pIPING uP

CHANGE REASON: Client Request

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

CE #009 - cONDENSATE pIPING uPSIZING
 COST OF MATERIALS INCREASE DUE TO UPSIZING THE CONDENSATE PIPING.

ATTACHMENTS:

**60% Fleet - \$676.80
 40% Parks - \$451.20**

Flintco

Orcutt Mechanical Contractors
 6200 NW 39th Expressway
 Oklahoma City, Oklahoma 73008

 SIGNATURE

 DATE

 SIGNATURE

 DATE

 SIGNATURE

 DATE



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

TAC Unit Condensate Sizing

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	08/18/2021	STATUS:	Open
REFERENCE:		DUE DATE:	08/27/2021
COST IMPACT:	TBD	SCHEDULE IMPACT:	TBD
DRAWING NUMBER:	M2-11		
LINKED DRAWINGS:		RECEIVED FROM:	Mike Hamilton (Orcutt Mechanical Contractors, Inc.)

COPIES TO:
Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.), Ethan Treisa (Flintco, LLC - OKC)

Question from Zack Blair (Flintco, LLC - OKC) at 03:49 PM on 08/18/2021

Reference sheet M2-11, M2-12, and attached product data for the TAC units.
Question: The condensate piping for the TAC units in both Parks and Fleet is shown to be 3/4" PVC to the units, however, the TAC units are equipped with 1" ports for the condensate, and the manufacturer recommends 1" condensate.
1) Please confirm the condensate piping should be up-sized to 1" (1-1/4" OD) to meet manufacturer requirements.

Attachments:
[TAC Unit Cut Sheets.pdf](#)

Official Response

Awaiting an Official Response

All Replies:

ACI Response:

Yes, size condensate line per manufacturers recommended drain size.

Isaac Marrone 8-19-21

**ADDITIONAL
COST FOR
LUBRICATION
CONTROLLERS**



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #009: CE #010 - Lube Equipment

Table with 4 columns: Field Name, Value, Field Name, Value. Includes fields like TO: Flintco, FROM: Orcutt Mechanical Contractors, PCO NUMBER/REVISION: 009 / 0, CONTRACT: 1 - North Base Fleet Contract Prime Contract, etc.

POTENTIAL CHANGE ORDER TITLE: CE #010 - Lube Equipment

CHANGE REASON: Design Development

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows)

CE #010 - Lube Equipment
Changes to lube equipment

ATTACHMENTS:

Note: Per email correspondence with the City of Norman on September 15th, 2021 it was agree the cost would be split between the City of Norman and Flintco.

Total Cost to City of Norman: \$2,106.40

Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE

C&D Services LLC

PO Box 2132
LEXINGTON, OK 73051

Original Costs for Alemite System

Estimate

Date	Estimate #
8/12/2021	2964

Name / Address
ORCUTT MECHANICAL CONTRACTORS MATT WEBER 6200 NW 39TH EXPRESSWAY BETHANY, OK 73008 RE: NORTH BASE COMPLEX

Ship To

Account #

Description	Qty	Rate	Total
ELECTRONIC METER HANDLE WITH RIGID EXTENSION	36	260.00	9,360.00
FCS FLUID MANAGEMENT SYSTEM	3	2,618.82	7,856.46
PULSE METER--COOLANT			
PULSE METER--OILS	2	385.81	771.62
OIL SOLENOID WITH CONNECTOR	4	240.00	960.00
25' PLUG IN CABLE	36	158.21	5,695.56
	36	62.91	2,264.76
<p>***THIS ESTIMATE INCLUDES LISTED EQUIPMENT ONLY-- DOES NOT INCLUDE ANY INSTALLATION, FEES OR PERMITS ***ESTIMATE DOES NOT INCLUDE ANY APPLICABLE SALES TAX</p>			
		Total	\$26,908.40

Phone #	Fax #	E-mail	Web Site
405-464-1646	405-527-1315	kclift@canddservices.net	www.canddservices.net

LUBEQUIP USA, LLC
13249 E. 46TH ST
TULSA, OK 74134 US
918-857-2765
joe@lubequipusa.com

New Costs for RAASM System

Estimate

ADDRESS

FLINTCO
2302 S. PROSPECT AVE
OKLAHOMA CITY, OK 73129

SHIP TO

FLINTCO
2302 S. PROSPECT AVE
OKLAHOMA CITY, OK
73129

ESTIMATE # 1182

DATE 09/14/2021

DATE	ITEM NUMBER	DESCRIPTION	QTY	RATE	AMOUNT
	RAA 39561-55	MASTER KEYPAD FOR INTEGRATED FLO NET SYSTEM	1	2,029.95	2,029.95
	RAA 39562-55	DISPENSE KEYPAD FOR INTEGRATED FLO NET SYSTEM	1	1,446.25	1,446.25
	RAA 39560-55	WIRELESS PRE-SET METER FOR FLO NET	24 30	896.50	21,516.00 26,895.00
	SERVICE WORK	1 DAY ON SITE STARTUP AND TRAINING	1	750.00	750.00

TOTAL

~~\$25,742.20~~

\$31,121.20

Accepted By

Accepted Date



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

YOUR FLUID MANAGEMENT SYSTEM





What is it?

The RAASM Flo-Net has been designed to control and monitor fluid consumption and inventory balances of automotive fluid products in your facility with **minimal installation and programming costs, all with wireless RF communications.**

How is it designed?

The fully integrated system hardware consists of one **Master Keypad, at least one Dispense Keypad and at least one wireless (RF) electronic preset meter.** The Master Keypad handles serial communication between the PC or a host server (ERP system) and RF communication to the Dispense Keypads in the system. The system verifies the operator's pin number and validates the work order number, fluid quantities and the valid dispense point.

What is the scope of the system?

The Master Keypad can communicate with up to 36 Dispense Keypads that can be positioned to best support the workflow of your service facility. Each Dispense Keypad can control up to 24 dispense meters, for a total of 250 dispense meters. The system supports up to 16 tanks / fluids as a part of the system configuration. The system supports 250 unique operators with separate IDs and pin numbers.

SPECIFICATIONS

Power Requirements	100...240 V AC 50/60 Hz
RF Communications	2-way, 2.4...2.5 GHz Direct Sequence Spread Spectrum
RF Network	Self-healing Mesh Network
Operating Temperature	14...140 °F (-10...60 °C)
Internal Printer	Thermal printer Type FT190 (optional)
External Printer	Epson LX300 or similar (optional)

CERTIFICATION

- Contains FCC ID: S4GEM35XB
- Contains IC: 8735A-EM35XB
- FCC CERTIFIED, PART 15, SUB-PART C
- CE0681 EC-R&TTE Certified

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.



VERSIONS

Two different versions are available with the following characteristics. Please contact our offices for more information.

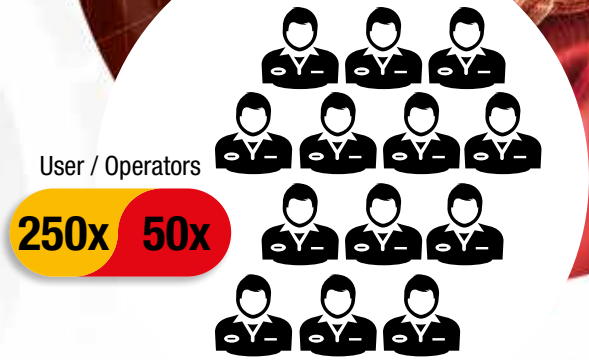
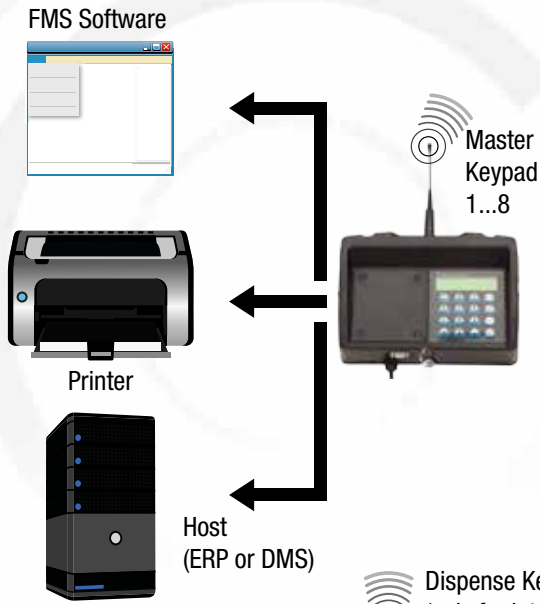
Main characteristics	Flo-Net Independent System Basic wireless advanced fluid management system for local inventory control.	Flo-Net Integrated System PC based wireless advanced fluid management system for large facility.
USERS	50	250
METERS	30	250
TANKS	8	16
FLUIDS	8	16
STANDALONE KEYPAD	1	-
MASTER ZONE KEYPADS	-	8
DISPENSE KEYPADS	-	36
SOFTWARE	Program directly on keypad	PC software

SYSTEM OVERVIEW

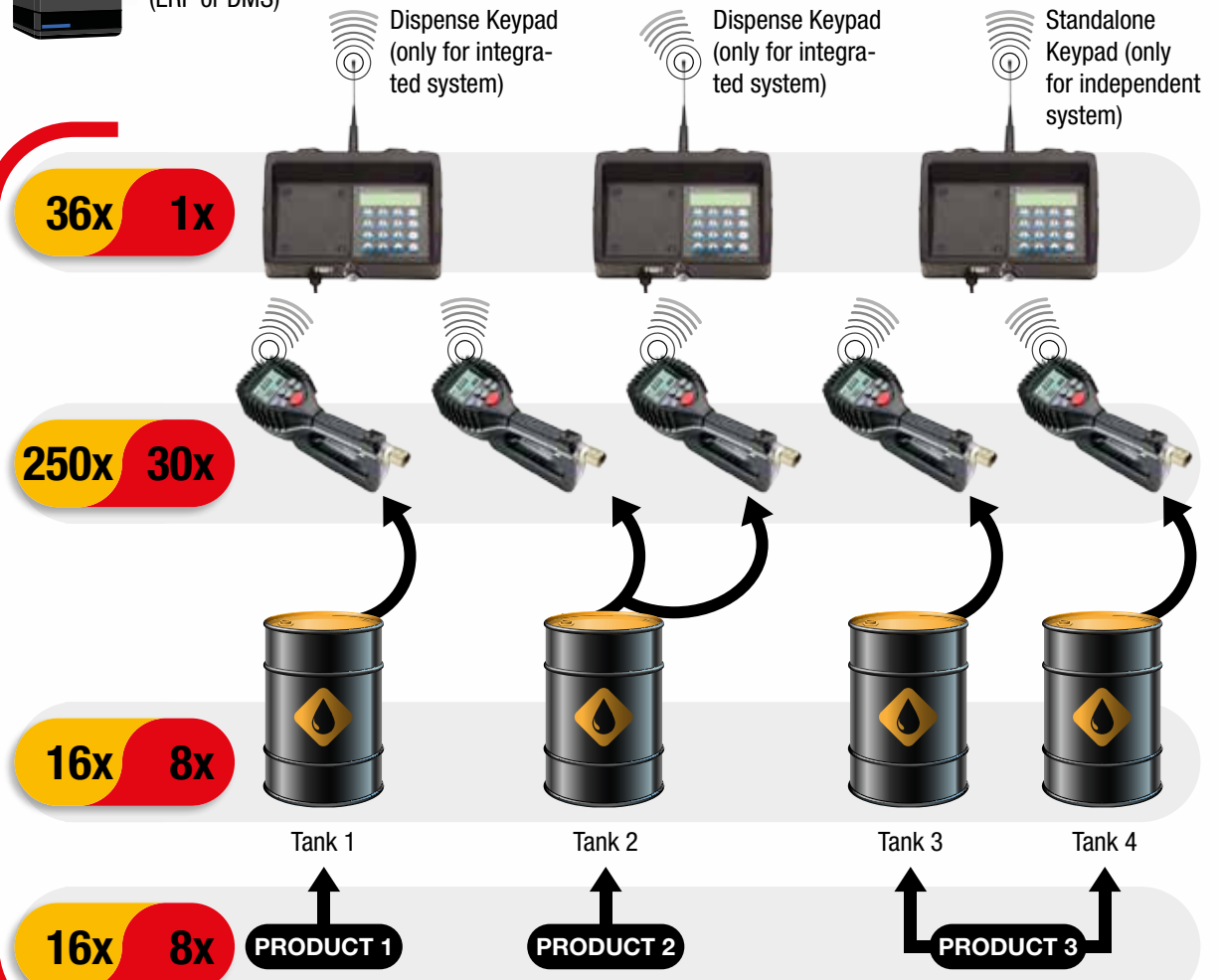
VERSIONS:

-  Flo-Net Independent System
-  Flo-Net Integrated System

Flo-Net Integrated System



Flo-Net Independent System





INNOVATIVE

- World class R&D department
- State of the art manufacturing facility
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- Skilled manufacturing
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- Quality is our top priority
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- Strong product support

RAASM USA, Inc.
1704 East Blvd, Suite 101
Charlotte, NC 28203 USA

Phone +1 704 370 1906
Fax +1 704 373 2603
Toll free number +1 877 370 1906

info@raasmusa.com
www.raasmusa.com

Authorized distributor

DSE Bidding and Estimating Form

Job: NORTH BASE

Page # 15

Area: ADD POWER FOR DISPENSING KEY PAD

Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1									
2	2	E	10' STICKS OF 3/4" EMT			12.50	25.00		
3	1	E	4SQR BOX			5.00	5.00		
4	1	E	RECEPTACLE AND PLATE			8.00	8.00		
5	60	E	20' X 3 OF #12 THHN WIRE			0.25	15.00		
6	1	E	I HOUR 1 MAN LABOR	1	1.00				
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
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21									
22									
23									
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25									
26									
27									
28									
29									
30									
31									
32									

Totals	1	1.00	53.00	0.00
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Labor Hour Rate	60	Total Labor	60
Tax Rate		Total Material	61
Profit	15.00%	Total Opening	0
		Total	121

Total Page 15



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Location of Fluid Management Controller

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Phillip Gunderson Flintco, LLC - OKC 2302 S. Prospect Oklahoma City , Oklahoma 73129
DATE INITIATED:	09/14/2021	STATUS:	Open
REFERENCE:		DUE DATE:	09/23/2021
COST IMPACT:	Yes (Unknown)	SCHEDULE IMPACT:	TBD
DRAWING NUMBER:	M2-11, M2-40		
LINKED DRAWINGS:		RECEIVED FROM:	Phillip Gunderson (Flintco, LLC - OKC)

COPIES TO:

Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.), Ethan Treisa (Flintco, LLC - OKC)

Question from Phillip Gunderson (Flintco, LLC - OKC) at 01:59 PM on 09/14/2021

During a walk today with Mike White, City of Norman, it was discussed the lubrication controller is currently design to be located in Compress/Lube M132.
Per Mike, the controller should be located in Tire/Parts M137 in the general location either between the overhead doors on in the general vicinity (as this will be where the end user will be operating).
Flintco requests confirmation relocation the controller to the requested location is acceptable as additional power and potentially low voltage will be required.

Official Response

Awaiting an Official Response

All Replies:

ACI Response -
Mechanically there is no issue moving the controller to room M137. Needs to be coordinated with electrical as mentioned above.

Isaac Marrone 9/15/21

**ADDITIONAL
FRP - RFI #66**



WILJO INTERIORS

109 NE 38th Street
Oklahoma City, OK 73105
Phone: 405-792-7979
Fax: 405-792-7980
www.wiljointeriors.com

TO: Phillip Gunderson Flintco	JOB: City of Norman- North Base Complex
DATE: 09/21/21	PLAN DATE:
ADDENDUMS: RFI #33 RFI #66	VOID PRICE AFTER: 30 Days

SCOPE:	AMOUNT
Proposal to Add frp to additonal two walls in M107	\$400
EXCLUSIONS: Overtime or nightwork; MEP; sealing of MEP penetrations; finished wood; millwork; provide or install of doors or door hardware; provide door frames; provide or install of any aluminum doors, door frames or window frames; provide or install of RR accessories; install of fire extinguisher cabinets; mullion caps; glazing; tape & bed; paint; EIFS or stucco; texture; flooring; transition strips; wall tile; blown-in insulation; engineering; any work not mentioned in scope above.	
TOTAL:	\$400

Respectfully Submitted,

Frank Snolis
WILJO INTERIORS, INC.

**ADDITIONAL
BACKER
BOARD - RFI #61**



WILJO INTERIORS

109 NE 38th Street
Oklahoma City, OK 73105
Phone: 405-792-7979
Fax: 405-792-7980
www.wiljointeriors.com

TO: Phillip Gunderson Flintco	JOB: City of Norman- North Base Complex Fleet
DATE: 09/17/21	PLAN DATE:
ADDENDUMS:	VOID PRICE AFTER: 30 Days

SCOPE:	AMOUNT
Proposal to cut out drywall and install tile backer board where called out on finish schedule (Excludes: Tape and Bed; Paint; Tile)	
Materials:	\$2,650
Labor:	\$3,740
OH&P:	\$960
Total:	\$7,350
EXCLUSIONS: Overtime or nightwork; MEP; sealing of MEP penetrations; finished wood; millwork; provide or install of doors or door hardware; provide door frames; provide or install of any aluminum doors, door frames or window frames; provide or install of RR accessories; install of fire extinguisher cabinets; mullion caps; glazing; tape & bed; paint; EIFS or stucco; texture; flooring; transition strips; wall tile; blown-in insulation; engineering; any work not mentioned in scope above.	
TOTAL:	\$7,350

Respectfully Submitted,

Frank Snolis
WILJO INTERIORS, INC.



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Cementitious Backer Board Clarification

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Ethan Treisa Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	09/08/2021	STATUS:	Open
REFERENCE:		DUE DATE:	09/17/2021
LINKED DRAWINGS:		RECEIVED FROM:	
COPIES TO: Zack Blair (Flintco, LLC - OKC), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), David Stanton (GSB, Inc.)			

Question from Ethan Treisa (Flintco, LLC - OKC) at 02:18 PM on 09/08/2021

REF: Product Data
REF: Spec 092900
Page 4 of the referenced spec section notes to install cementitious backer board around the walls of the (3) showers. Please advise if the intent is to provide cementitious backer board at all other locations that are to receive tile.

Attachments:
[usg-durock-cement-board-with-edgeguard-submittal-en-CB399EG.pdf 092900.pdf](#)

Official Response
Awaiting an Official Response

All Replies: [RESPONSE | GSB | 2021 09 16:](#)

CORRECT - PROVIDE CEMENTITIOUS BACKER BOARD AT ALL AREAS THAT ARE TO RECEIVE TILE

MICHAEL SEGROVES, AIA / AICP
PROJECT ARCHITECT | GSB, INC. ARCHITECTS & PLANNERS

SECTION 09 29 00**GYPSUM BOARD****PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Interior gypsum board.
 - 2. Tile backing panels.
 - 3. Texture finishes.
- B. Related Requirements:
 - 1. Section 05 40 00 "Cold-Formed Metal Framing" for metal framing in exterior walls.
 - 2. Section 09 22 16 "Non-Structural Metal Framing" for non-structural steel framing and suspension systems that support gypsum board panels.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For the following products:
 - 1. Textured Finishes: 24 inches square samples for textured finish indicated and on same backing indicated for Work.

1.4 QUALITY ASSURANCE

- A. Mockup: Build mockup of at least 100 sq. ft. in surface area to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Build mockups for texture finish indicated.
 - 2. Apply final painting on surface for review of mockup.
 - 3. Simulate finished lighting conditions for review of mockup.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Comply with ASTM C840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.
- B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.

2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.

2.2 INTERIOR GYPSUM BOARD

- A. Manufacturer:
 1. American Gypsum.
 2. CertainTeed Gypsum
 3. Continental Building Products.
 4. Georgia-Pacific Gypsum.
 5. National Gypsum Company.
 6. USG Corporation.
- B. Gypsum Board, Type X: ASTM C1396/C1396M.
 1. Thickness: 5/8 inch.
 2. Long Edges: Tapered.
- C. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and paper surfaces.
 1. Core: 5/8 inch, Type X.
 2. Long Edges: Tapered.
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.3 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
 1. Manufacturer:
 - a. C-Cure.
 - b. CertainTeed Corporation.
 - c. Custom Building Products.
 - d. FinPan, Inc.
 - e. James Hardie Building Products.
 - f. National Gypsum Company.
 - g. USG Corporation.
 2. Core: 5/8 inch.
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.4 TRIM ACCESSORIES

- A. Interior Trim: ASTM C1047.
 1. Material: Galvanized, aluminum-coated steel sheet, rolled zinc, or plastic.
 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. Expansion (control) joint.

2.5 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C475/C475M.

- B. Joint Tape:
 1. Interior Gypsum Board: Paper.
 2. Tile Backing Panels: As recommended by panel manufacturer.

- C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping or drying-type, all-purpose compound.
 3. Fill Coat: For second coat, use setting-type, sandable topping or drying-type, all-purpose compound.
 4. Finish Coat: For third coat, use setting-type, sandable topping or drying-type, all-purpose compound.

- D. Joint Compound for Cementitious Tile Backing Panels: As recommended by backer unit manufacturer.

2.6 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

- B. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
 1. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

- C. Acoustical Batt Insulation: ASTM C665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
 1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.

- D. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Franklin International.
 - b. Grabber Construction Products.
 - c. Hilti, Inc.
 - d. Pecora Corporation.
 - e. Specified Technologies, Inc.
 - f. Substitutions: Comply with requirements of Section 01 2501.

2.7 TEXTURE FINISHES

- A. Primer: As recommended by textured finish manufacturer.

- B. Non-Aggregate Finish: Premixed, vinyl texture finish for spray application.
 1. Manufacturer: National Gypsum Company.
 2. Texture: Orange peel.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. (0.7 sq. m) in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch-wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch-wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.3 APPLYING INTERIOR GYPSUM BOARD

- A. **Install interior gypsum board and cementitious backer units in the following locations:**
 - 1. **Mold-Resistant Gypsum Board, Type X: Where indicated on Drawings.**
 - 2. **Cementitious Backer Units: At shower walls.**
 - 3. **Type X: Elsewhere.**

- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels vertically (parallel to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - b. At stairwells and other high walls, install panels horizontally unless otherwise indicated or required by fire-resistance-rated assembly.
 3. On Z-shaped furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.
- C. Multilayer Application:
1. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
 2. Fastening Methods: Fasten base layers and face layers separately to supports with screws.

3.4 APPLYING TILE BACKING PANELS

- A. Comply with manufacturer's installation instructions and ANSI A108.11.
- B. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.5 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- C. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners.
 2. LC-Bead: Use at exposed panel edges.

3.6 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 2. Level 2: Panels that are substrate for tile.
 3. Level 4: At panel surfaces that will be exposed to view (orange peel texture and paint).

- E. Primer and its application to surfaces are specified in Sections 09 91 00.
- F. Tile Backer Units: Finish according to manufacturer's written instructions.

3.7 APPLYING TEXTURE FINISHES

- A. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth.
- B. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture matching approved mockup and free of starved spots or other evidence of thin application or of application patterns.
- C. Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediately remove droppings and overspray to prevent damage according to texture-finish manufacturer's written instructions.

3.8 PROTECTION

- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

USG DUROCK® BRAND CEMENT BOARD WITH EDGE GUARD™



Backerboard for tile and exterior finish systems

- Enhanced proprietary edge performance prevents spinout and crumbling
- Easy to cut and fasten
- Water durable and mold resistant
- Warranted for interior and exterior applications
- Exceptional tile bond
- Noncombustible
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material per California Department of Public Health CDPH/EHLB/Standard Method (CA Section 01350) for school classrooms and private office modeling scenarios, and meets USGBC's LEED® v4 emission requirements for flooring applications.

DESCRIPTION

USG Durock® Brand Cement Board with EdgeGuard™ offers architects, builders and tile contractors a strong, water-durable tile base for tub and shower areas. Also an ideal underlayment for tile on floors and countertops in new construction and remodeling. Board is readily applied over wood or steel framing spaced 16 in. (406 mm) o.c. with corrosion-resistant wood screws, steel screws or hot-dipped galvanized roofing nails. After joints are treated, wall or floor tile is applied using latex-fortified mortar or Type I organic adhesive.

USG Durock® Brand Cement Board with EdgeGuard is preferred by many applicators as a base for directly applied finishes, tile, stone and thin brick used in building exteriors.

The 1/2 in. (12.7 mm) and 5/8 in. (15.9 mm) panels are Underwriters Laboratories Inc. (UL) Classified for fire resistance, and may be used in any UL Design where Type DCB panels are listed.

PRODUCT DATA SIZES AND PACKAGING

Size (thickness x width x length) ¹	Units (pcs) ²
1/4 in. x 3 ft. x 5 ft. (6.4 mm x 915 mm x 1525 mm)	60
1/2 in. x 32 in. x 5 ft. (12.7 mm x 813 mm x 1525 mm)	50
1/2 in. x 3 ft. x 5 ft. (12.7 mm x 915 mm x 1525 mm)	50
1/2 in. x 4 ft. x 8 ft. (12.7 mm x 1220 mm x 2440 mm)	40
5/8 in. x 3 ft. x 5 ft. (15.9 mm x 915 mm x 1525 mm)	40
5/8 in. x 4 ft. x 8 ft. (15.9 mm x 1220 mm x 2440 mm)	32

1. Other lengths available. Contact your USG Sales Representative.
2. Shipped in packaging units as shown.

STANDARDS

USG Durock® Brand Cement Board with EdgeGuard exceeds ANSI standards for cementitious backer units (CBU). See ANSI A118.9 for test methods and specifications for CBU and ANSI A108.11 for interior installation of CBU. Exceeds industry standards as an exterior substrate for exterior finishes. Exceeds ASTM C1325 standards for nonasbestos fiber-mat reinforced cementitious backer units.

AVAILABILITY

USG Durock® Brand Cement Board with EdgeGuard is distributed throughout the United States. Contact a USG sales office or sales person for additional information.

COMPOSITION AND MATERIALS

USG Durock® Brand Cement Board with EdgeGuard is formed in a continuous process of aggregated portland cement slurry with polymer-coated, glass-fiber mesh completely encompassing edges, back and front surfaces. The edges are formed smooth with a patented poly-propylene fabric-wrapped edge. The ends are square cut.

DELIVERY AND STORAGE OF MATERIALS

All materials should be delivered and stored in their original unopened package and stored in an enclosed shelter providing protection from damage and exposure to the elements. Even though the stability and durability of USG Durock® Brand Cement Board with EdgeGuard is unaffected by the elements, moisture and temperature variations may have an effect on the bonding effectiveness of basecoats and adhesives. Store all USG Durock® Brand Cement Board with EdgeGuard panels flat.

ENVIRONMENTAL CONDITIONS

In cold weather and during USG Durock® Brand Cement Board with EdgeGuard panel and tile installation, temperatures within the building shall be maintained within the range of 40 to 100°F (5 to 38°C). Adequate ventilation shall be provided to carry off excess moisture.

INTERIOR APPLICATIONS

The building shall be enclosed and the HVAC system operating so that wood framing shall reach the moisture content it will reach in service. Do not install board when the board is wet.

EXTERIOR APPLICATIONS

In exterior applications, USG Durock® Brand Cement Board with EdgeGuard should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel. Finishes, leveling/skim coats and basecoats should not be applied to USG Durock® Brand Cement Board with EdgeGuard panel that is wet or frozen or that contains frost. After application, and for at least 24 hours, finishes, leveling/skim coats and basecoats should be effectively protected from rain and excessive moisture. In cold weather and during finish applications, USG Durock® Brand Cement Board with EdgeGuard panel, skim or basecoat, mortar, finish material and air temperature must be at least 40°F (5°C) and must remain at this temperature or higher for at least 24 hours after application. Hot and dry weather may affect working time of leveling/skim or basecoat and finish materials. Under rapid drying conditions, dampening or light fogging of board, leveling/skim or basecoat surface may be required to improve workability.

PANEL MICROCRACKING

USG Durock® Brand Cement Board with EdgeGuard is formulated to develop fine microcracking (also called multiple cracking) in the panel. The microcracking process helps to evenly relieve the stored strain energy in the product due to handling and installation, external loads and/or panel restrained movement. The presence of microcracks in the panel should not be considered a product defect.

INSTALLATION

- A.** Install cement board with ends and edges closely abutted, but not forced together. Stagger end joints in successive courses.
- B.** For flooring applications over a wood-based substrate, laminate USG Durock® Brand Cement Board with EdgeGuard to subfloor using Type 1 organic adhesive or latex-modified thin-set mortar suitable for bonding cement board. Fasten to subfloor with 1-1/4 in. (32 mm) USG Durock™ Brand Tile Backer Screws for wood framing (or equivalent) or 1-1/2 in. (38 mm) hot-dipped galvanized roofing nails spaced 8 in. (203 mm) o.c. in both directions with perimeter fasteners at least 3/8 in. (10 mm) and less than 5/8 in. (16 mm) from ends and edges. Drive nails and screws so that bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners. Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock™ Brand Tile Backer Tape and level joints.
- C.** For wall application, fasten USG Durock® Brand Cement Board with EdgeGuard panels to framing with specified fasteners. Drive fasteners into field of panels first, working toward ends and edges. Hold panels in firm contact with framing while driving fasteners. Space fasteners maximum 8 in. (203 mm) o.c. for walls, 6 in. (152 mm) o.c. for ceilings, with perimeter fasteners at least 3/8 in. (10 mm) and less than 5/8 in. (16 mm) from ends and edges. Drive nails and screws so bottoms of heads are flush with panel surface to ensure firm panel contact with framing. Do not overdrive fasteners. Approved fasteners include: USG Durock™ Brand Tile Backer Screws for steel framing (or equivalent), 1-1/4 in. (32 mm) and 1-5/8 in. (41 mm) for 14- to 20-gauge steel framing; USG Durock™ Brand Tile Backer Screws for wood framing (or equivalent), 1-1/4 in. (32 mm), 1-5/8 in. (41 mm) and 2-1/4 in. (57 mm) for wood framing. Nails (1-1/2 in. [38 mm] hot-dipped galvanized roofing nails). Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock™ Brand Tile Backer Tape and level joints.

INSTALLATION CONT.

- D.** Cement board should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a dust-collection device. Installer should wear NIOSH/MSHA-approved dust mask.
- E.** If waterproofing is desired, use USG Durock™ Brand Liquid Waterproofing Membrane. See *USG Durock™ Brand Liquid Waterproofing Membrane* submittal sheet (CB817) for product information.

Refer to *USG Durock® Brand Cement Board System Guide* (SA932) for complete installation information, including good design practices. For technical assistance, call USG Technical Service at 800 USG.4YOU (874-4968).

LIMITATIONS

- 1.** Designed for positive or negative uniform loads up to 60 psf. For complete information on the use of USG Durock® Brand panels in exterior systems, consult uniform load table on Page 4 for applicable positive or negative uniform loads on wall systems.
- 2.** Wall applications: Maximum stud spacing: 16 in. (406 mm) o.c. (24 in. [610 mm] o.c. for cavity shaft wall assembly). Framing shall be designed (based on stud properties alone) not to exceed L/360 deflection for tile and thin brick, L/240 for direct-applied exterior finish systems. Maximum fastener spacing: 8 in. (203 mm) o.c. for wood and steel framing; 6 in. (152 mm) o.c. for ceiling applications.
- 3.** Floor applications: Maximum joist spacing 24 in. (610 mm) o.c. The subfloor system should be designed with a minimum deflection limit of L/360 for the span. Some finish materials may require a more rigid subassembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements. The subfloor should be APA Span-Rated Plywood or OSB with an Exposure 1 classification or better with tongue and groove or back blocked at the unsupported edges.
- 4.** In exterior applications, USG Durock® Brand Cement Board with EdgeGuard should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel.
- 5.** Brittle coatings, such as epoxy coatings, are not recommended for use with USG Durock® Brand Cement Board with EdgeGuard. USG Durock® Brand Cement Board with EdgeGuard is intended for use with tile, thin brick and exterior stucco coatings only.
- 6.** Maximum dead load for ceiling system is 7.5 psf.
- 7.** Steel framing must be 20-gauge or heavier.
- 8.** Do not use drywall screws or drywall nails. Do not use drywall joint tape.
- 9.** Do not use 1/4 in. (6.4 mm) USG Durock® Brand Cement Board with EdgeGuard for wall or ceiling applications. 1/4 in. (6.4 mm) USG Durock® Cement Board with EdgeGuard is for use in interior applications only.
- 10.** Do not use USG Durock® Brand Cement Board with EdgeGuard with vinyl flooring.
- 11.** USG Durock® Brand Cement Board with EdgeGuard is not designed for use as a structural panel.
- 12.** Maximum installed weight of the finish system should not exceed 15 psf.
- 13.** USG Durock® Brand Cement Board with EdgeGuard panels should not be used in areas where they are exposed to temperatures that exceed 200°F (93°C).
- 14.** In locations close to salt water or other challenging environments, design professionals should consider the use of stainless steel fasteners.
- 15.** Do not use lightweight setting-type joint compounds or ready-mix joint compounds directly over USG Durock® Brand Cement Board with EdgeGuard.

TECHNICAL DATA

Property	Unit of Measure	ASTM Test Method	5/8 in. (15.9 mm) USG Durock® Brand Cement Board with EdgeGuard™	1/2 in. (12.7 mm) USG Durock® Brand Cement Board with EdgeGuard™	1/4 in. (6.4 mm) USG Durock® Brand Cement Board with EdgeGuard™ Underlayment
Flexural strength	psi (MPa)	C947	> 480	> 750	> 1000 (6.9)
Indentation strength	psi (MPa)	D2394	> 1250	> 1250	> 1250 (8.6)
Shear bond strength	psi	ANSI A118.4	> 50	> 50	> 50
Nail-pull resistance	lb. (0.375 in. [10 mm] head diameter, wet or dry)	C473	> 90	> 90	—
Weight	psf (kg/m²)	C473	3	2.4	< 1.9 (1.9)
Freeze/thaw resistance	procedure B, number of cycles with no deterioration	C666	100	100	100
Mold resistance	—	G21 D3273	Rating 0, No growth 10/10	Rating 0, No growth 10/10	Rating 0, No growth 10/10
Noncombustibility	Pass/Fail	E136	Pass	Pass	Pass
Surface-burning characteristics	flame/smoke	E84	0/0	0/0	0/0
Thermal	"R"/k value	C518	.49/1.27	0.39/1.27	—
Standard method for evaluating ceramic floor tile installation systems	Passes cycles 1-6	C627	Light commercial	Light commercial	Light commercial
Minimum bending radius	ft. (requires special framing details available upon request)	—	6	6	—

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

DANGER

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state, and federal regulations. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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NOTE

The information in this document is subject to change without notice. USG Corp. assumes no responsibility for any errors that may inadvertently appear in this document. Consult your USG Company sales office or representative for information. Products described here may not be available in all geographic markets.

NOTICE

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

UNIFORM LOAD—1/2 IN. (12.7 MM) USG DUROCK® BRAND CEMENT BOARD WITH EDGEGUARD™

Stud Spacing	Fastener Spacing	Design Wind Load (1/240)	Design Wind Load (1/360)
12 in. (305 mm) o.c.	8 in. (203 mm) o.c.	35 psf	35 psf
	6 in. (152 mm) o.c.	44 psf	44 psf
16 in. (406 mm) o.c.	8 in. (203 mm) o.c.	27 psf	21 psf
	6 in. (152 mm) o.c.	31 psf	21 psf
24 in. (610 mm) o.c. (for shaft wall assemblies only)	8 in. (203 mm) o.c.	12 psf	8 psf
	6 in. (152 mm) o.c.	12 psf	8 psf

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

800 USG.4YOU
800 (874-4968)
usg.com

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

CB399EG-USA-ENG/rev. 7-20
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20146

ALTERNATE JOB

REVISION 7

DSE Bidding and Estimating Form

Job: NORTH BASE

Page # 11

Area: REVISIN 7 PARKS

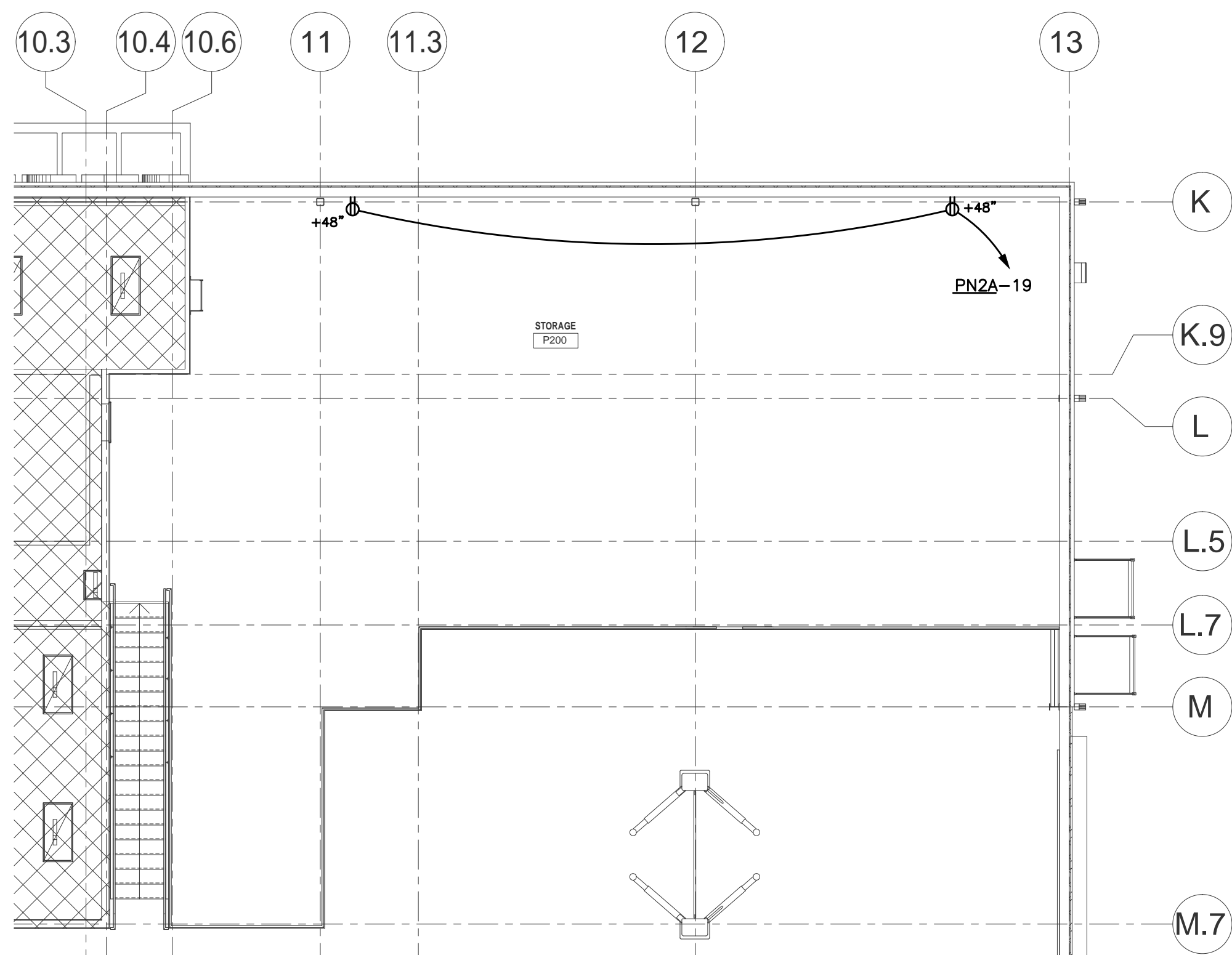
Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1			ADDED DATA ROUGH						
2	1	E	10' 3/4" EMT			12.50	12.50		
3	1	E	4SQR BOX			5.00	5.00		
4	1	E	MAN 1 HOUR LABOR	1	1.00				
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31									
32									
Totals				1	1.00		17.50		0.00

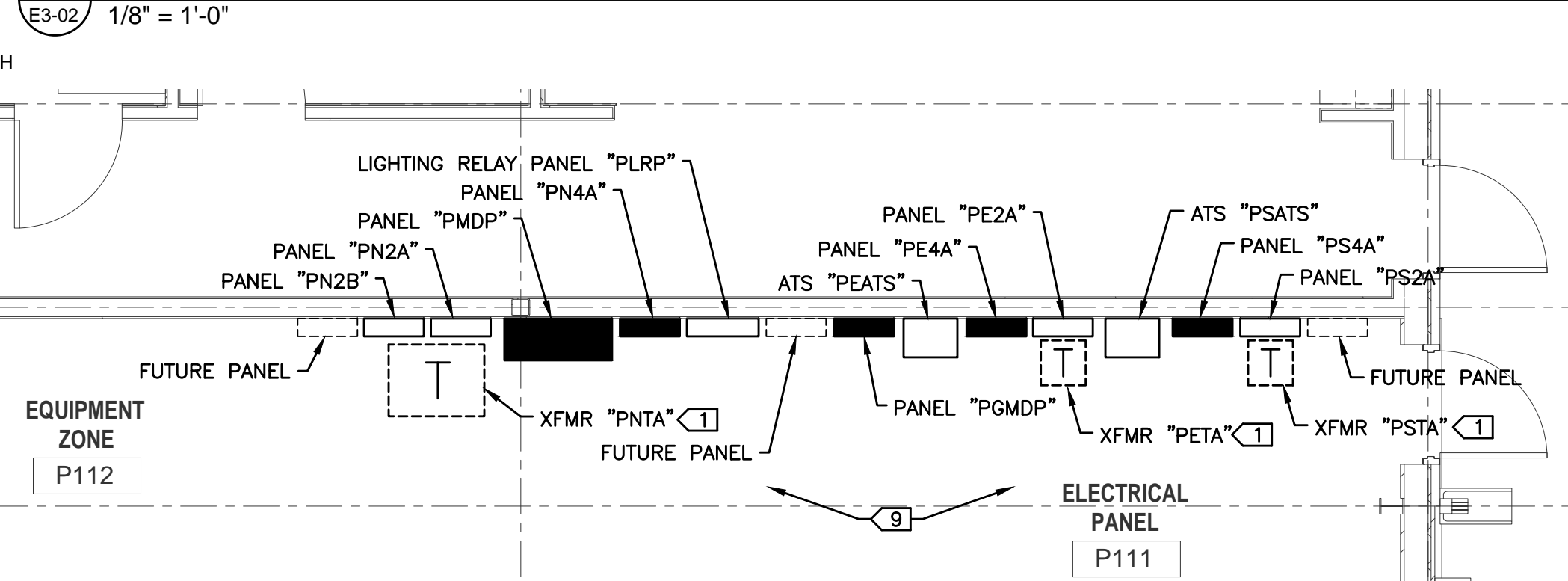
Labor Hour Rate 60
 Tax Rate
 Profit 15.00%

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 Total Material 20
 Total Opening 0
Total 80

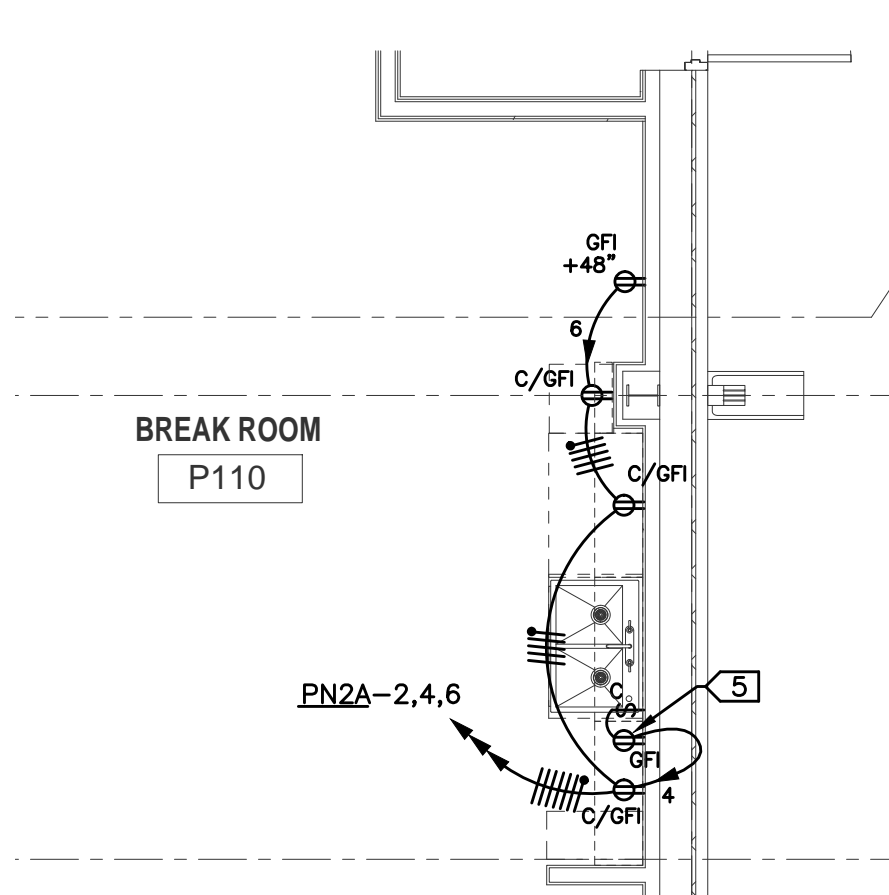
Total Page 11



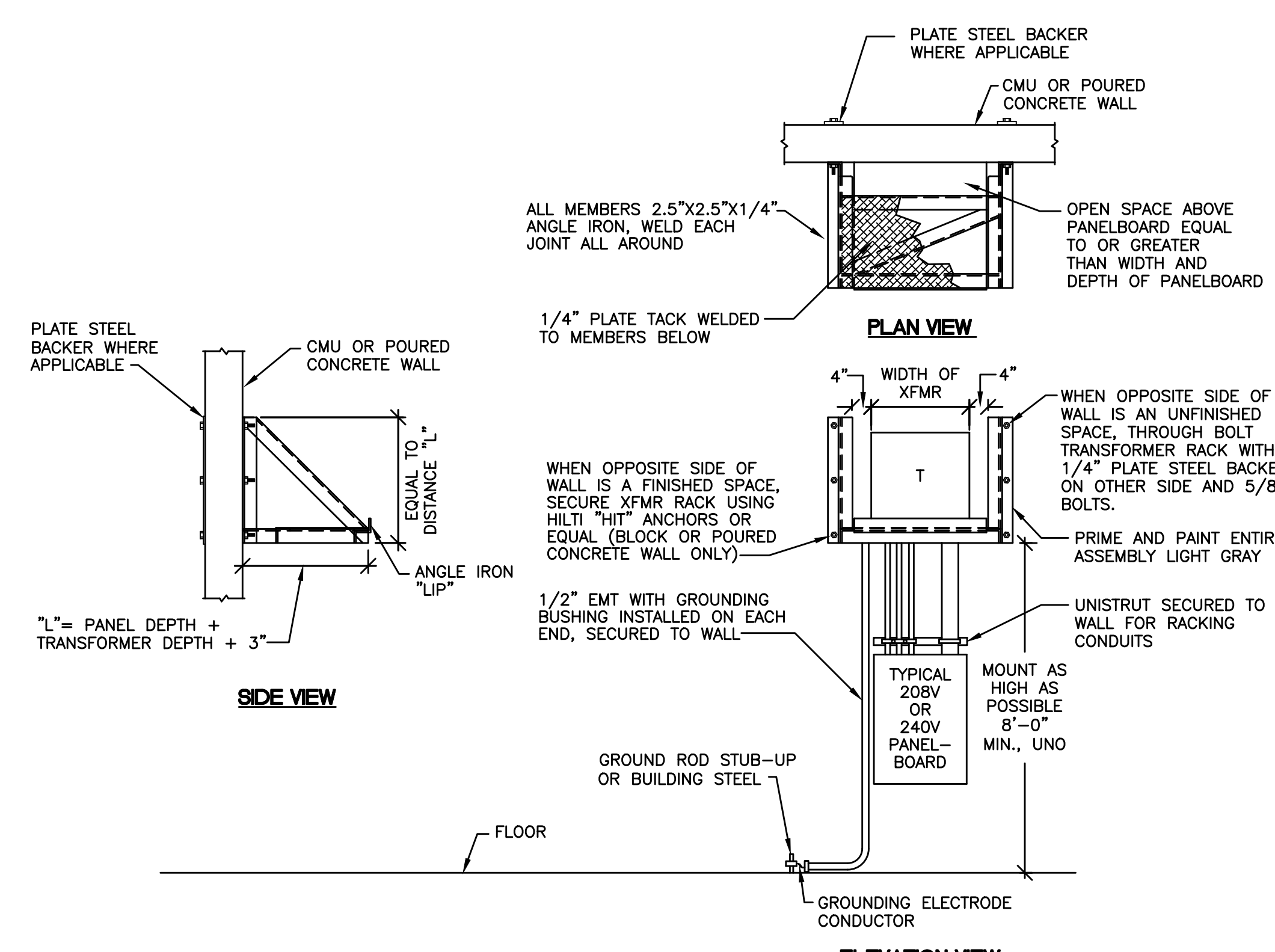
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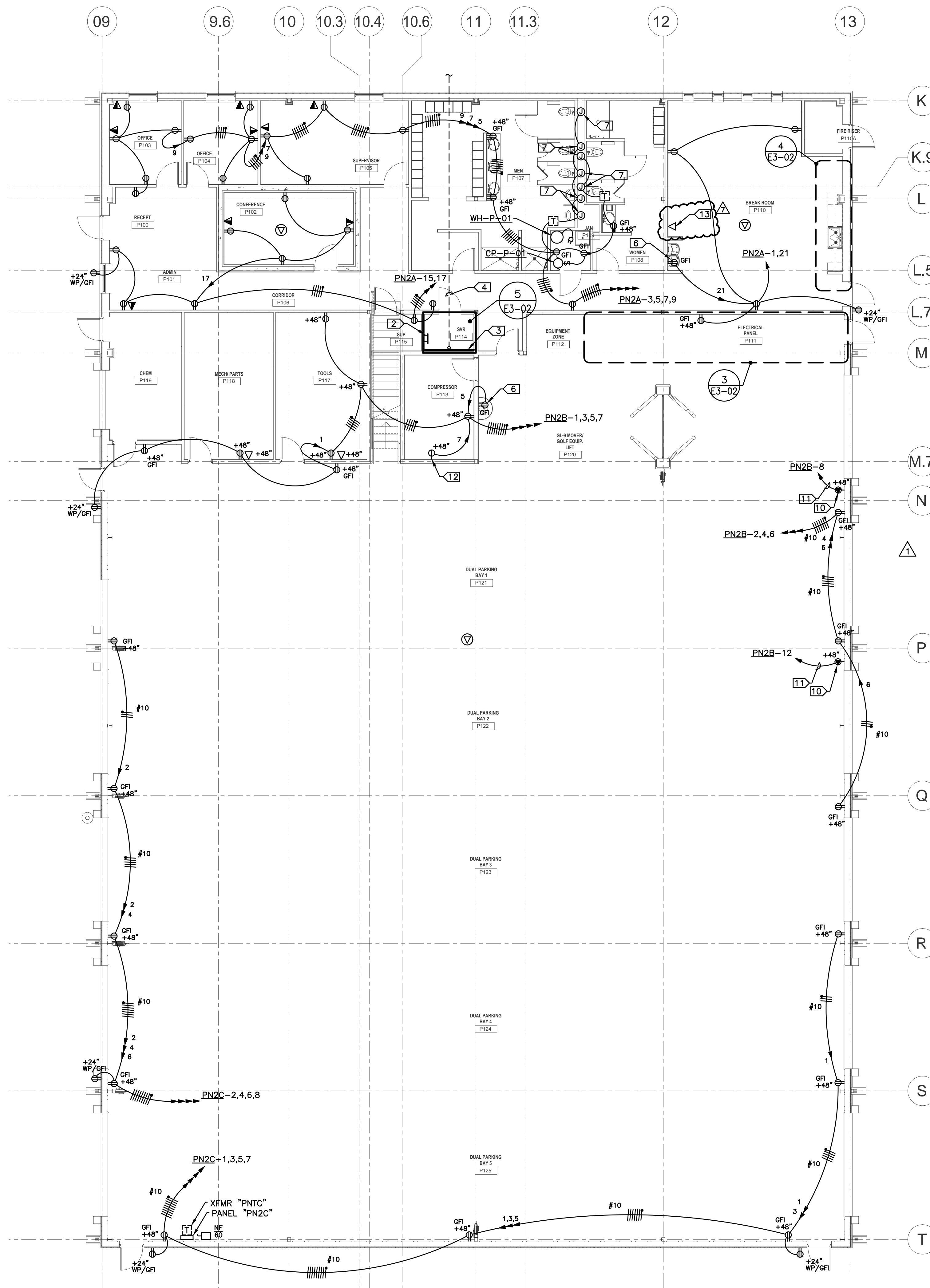
3 ENLARGED POWER DISTRIBUTION PLAN - PARKS - ADD ALT #1



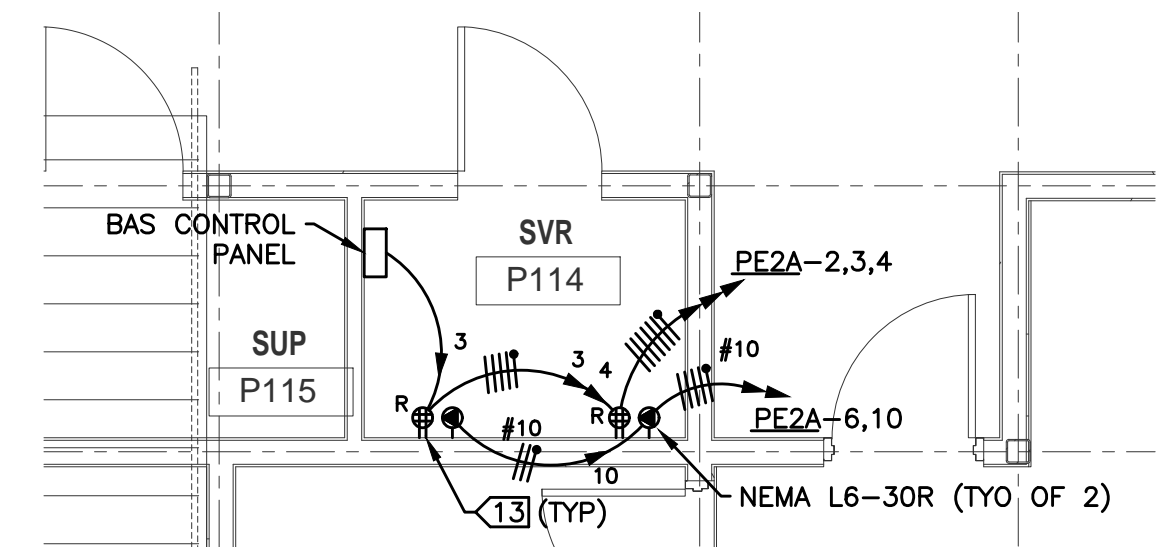
4 ENLARGED BREAK ROOM PLAN - PARKS - ADD ALT #1



A TRANSFORMER WALL MOUNTING DETAIL



1 POWER PLAN - LEVEL ONE - PARKS MAINTENANCE - ADD ALT #1



5 ENLARGED SERVER ROOM PLAN - PARKS

- GENERAL NOTES:**
- ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVICING GASOLINE AND CNG VEHICLES.
 - SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSIC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.
 - THE CNG HAZARDOUS AREA REQUIREMENTS AT THE CEILING SHALL BE MET BY USE OF A VENTILATION SYSTEM TO PROVIDE THE REQUIRED AIR CHANGES PER HOUR IN ACCORDANCE WITH NEC TABLE 511.3(D). NO CNG HAZARDOUS AREA SHALL BE REQUIRED AT THE CEILING.
 - ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.
 - OFFICE AREA SHALL BE PROVIDED WITH POSITIVE PRESSURE HVAC AND SHALL NOT BE CLASSIFIED HAZARDOUS.
 - PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.
 - HOMERUN CIRCUITS AS SHOWN, DO NOT COMBINE HOMERUNS.
 - CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY-IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATIONS.
 - COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECT.
 - 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.
 - CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.
 - CONDUITS ROUTED EXPOSED SHALL BE RATED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.
 - PROVIDE 120V GFI DUPLEX RECEPTACLE AND PIGTAIL CONNECTED TO NEAREST RECEPTACLE CIRCUIT AT EACH P-TRAP PRIMER. RE: MECHANICAL DRAWINGS FOR LOCATIONS.
 - RE: CONVERGENT DRAWINGS FOR ACCESS CONTROL & CCTV CONDUITS AND ENCLOSURES TO BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL PROVIDE ALL CONDUIT AND POWER CIRCUITING REQUIRED BY THOSE DRAWINGS.

- KEYED NOTES:**
- WALL MOUNTED TRANSFORMER. RE: DETAIL "A" THIS SHEET.
 - GROUND BAR MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH OWNER. RE: ONE-LINE DIAGRAM AND GROUND BAR DETAIL "B", SHEET E5.01.
 - TELEPHONE TERMINAL BOARD "TTBP". PROVIDE 4'X8'X 3/4" FIRE RETARDANT PLYWOOD MOUNTED WITH FIRE RETARDANT PAINT.
 - (3) 4" PVC CONDUITS ROUTED 36" BFG FOR COMMUNICATIONS CABLING, STUB CONDUITS UP 4" AFF AT TELEPHONE TERMINAL BOARD "TTBP". RE: SHEET E1-01 FOR CONTINUATION.
 - SPLIT DUPLEX RECEPTACLE (TOP HALF SWITCHED) AND COUNTER MOUNTED SWITCH FOR IN-SINK GARBAGE DISPOSAL AND DISHWASHER. RECEPTACLE MOUNTED BELOW COUNTER. COORDINATE SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH MILLWORK.
 - RECEPTACLE FOR PLUMBING FIXTURE. MOUNT BEHIND EQUIPMENT SHROUD. COORDINATE WITH EQUIPMENT INSTALLER. DO NOT MOUNT LOWER THAN 20" TO BOTTOM OF BOX.
 - PROVIDE JUNCTION BOX FOR AUTOMATIC TOILET/URINAL FLUSH VALVE. COORDINATE EXACT LOCATION WITH PLUMBER.
 - FLUSH VALVE LOW VOLTAGE TRANSFORMER MOUNTED ABOVE CEILING.
 - ALL CONDUIT STUB-UPS IN THE HAZARDOUS AREA SHALL COMPLY WITH NEC REQUIREMENTS. PROVIDE PVC COATED RGSIC CONDUIT STUBBED AT LEAST 19" AFF SO THERE ARE NO FITTINGS WITHIN THE HAZARDOUS AREA.
 - NEMA 6-50R RECEPTACLE.
 - 2 #6, 1 #10GND., 3/4"C.
 - RECEPTACLE FOR AIR-DRYER ACD-P-01. COORDINATE EXACT MOUNTING LOCATION WITH MECHANICAL.
 - DATA OUTLET FOR TIMELOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.



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www.gsb-inc.com

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REVISIONS		
NO.	DATE	DESCRIPTION
09/18/20	ADD. NO. 2	
07/23/21	FORKLIFT & TIMELOCKS	

GSB PROJECT NO.
191650

DRAWING TITLE
POWER PLAN - PARKS
MAINTENANCE

DATE
08/28/2020

DRAWING NO.
E3-02

HAE Homer Associates Engineers, Inc.
1306 Commerce Dr., Norman, OK 73071
Certificate of Authorization No. CA 3520, Expires 03/30/2021
info@hae.com Ph (405) 801-2528 Fax (405) 801-2529
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REVISION 8

DSE Bidding and Estimating Form

Job: north base

Page # 7

Area: parks revision #8

Enter E, C or W in Unit

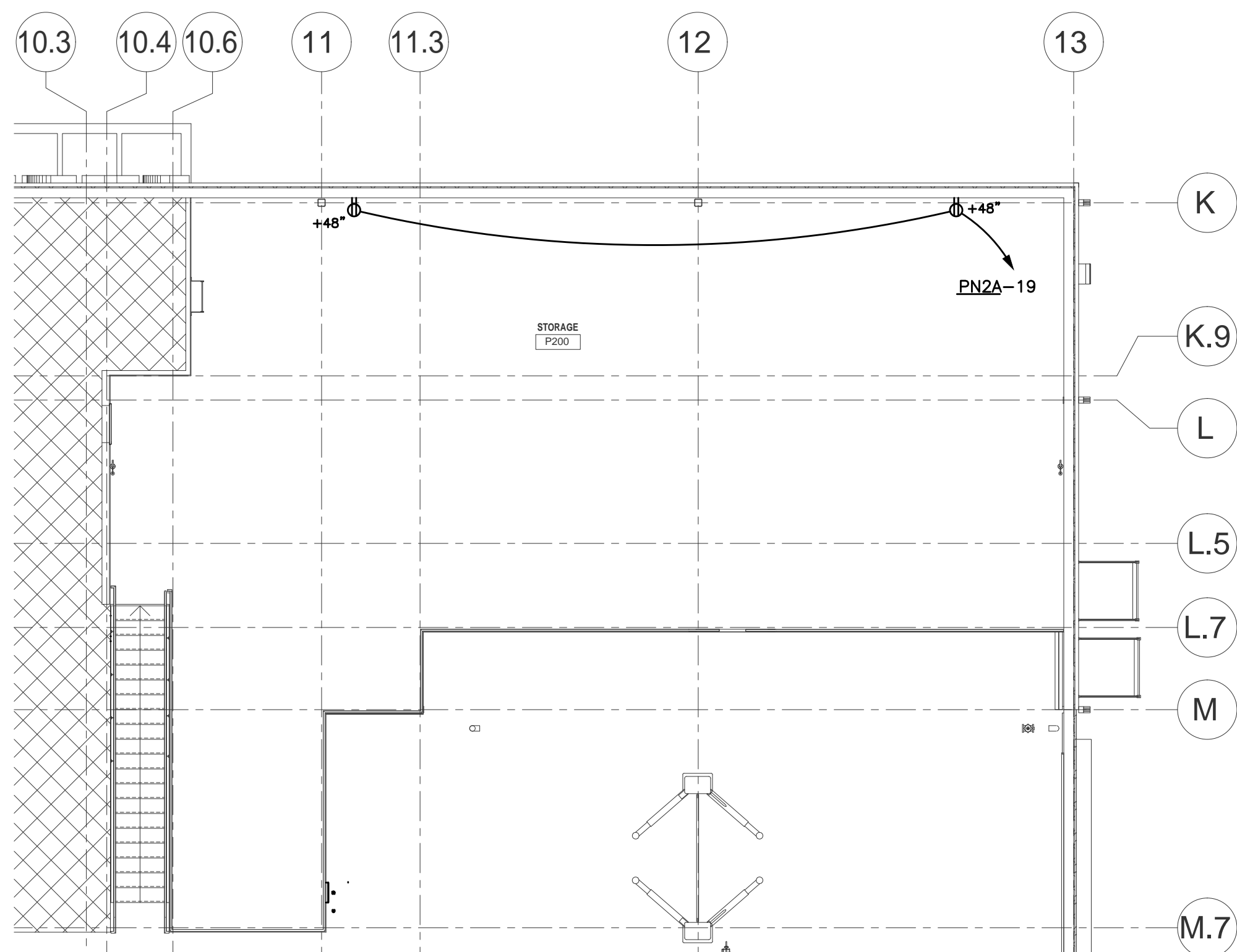
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2									
3	2	e	hubell tv/power boxes			215.00	430.00		
4	2	e	10' sticks of 3/4" emt			12.50	25.00		
5	2	e	2 hours labor 1 man	1	2.00				
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32									
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Labor Hour Rate 60
 Tax Rate
 Profit 15.00%

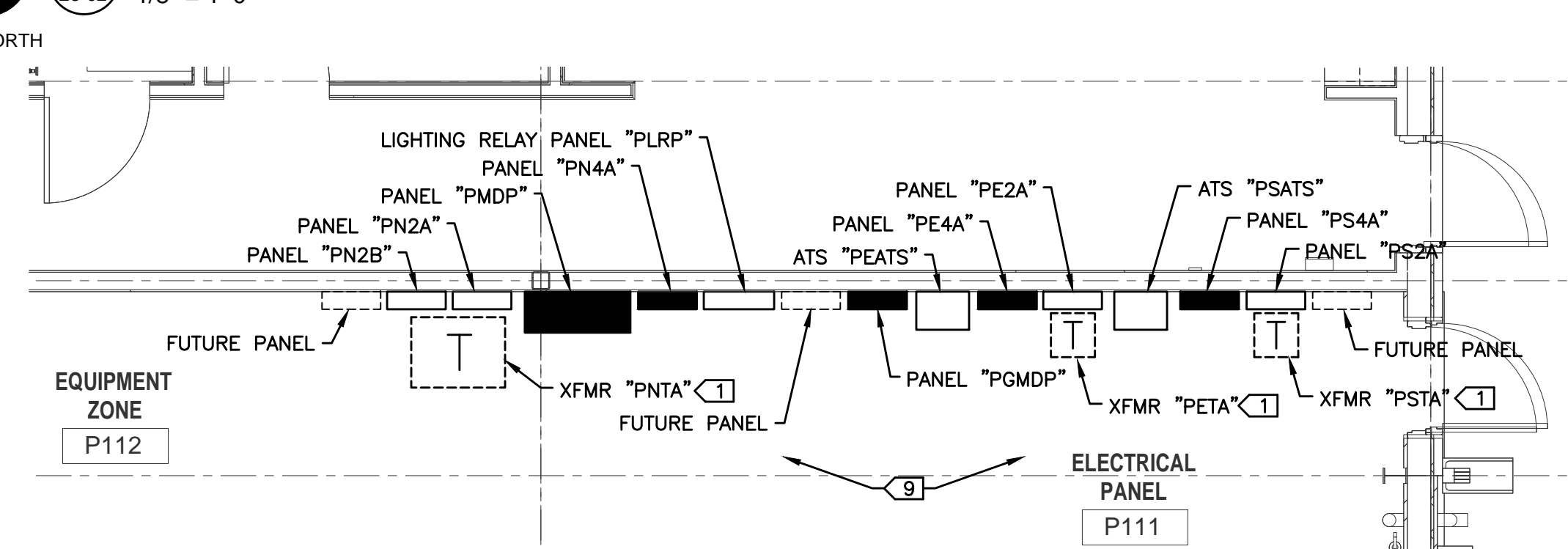
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 Total Material 523
 Total Opening 0

Total Page 7

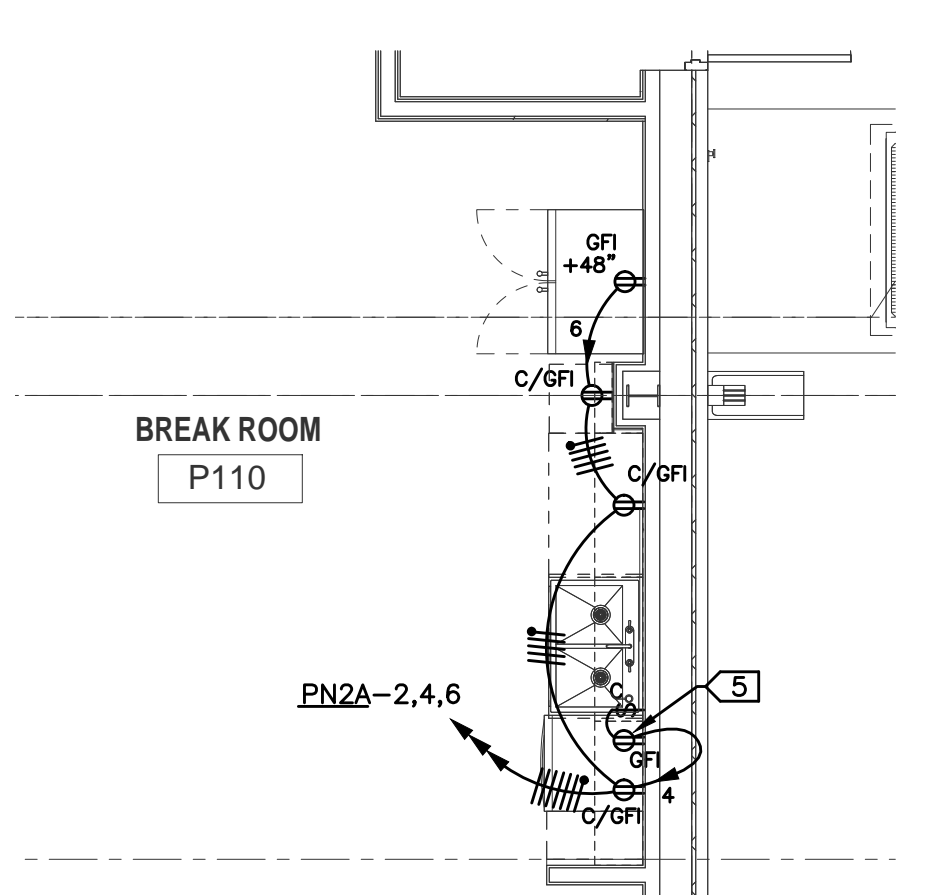
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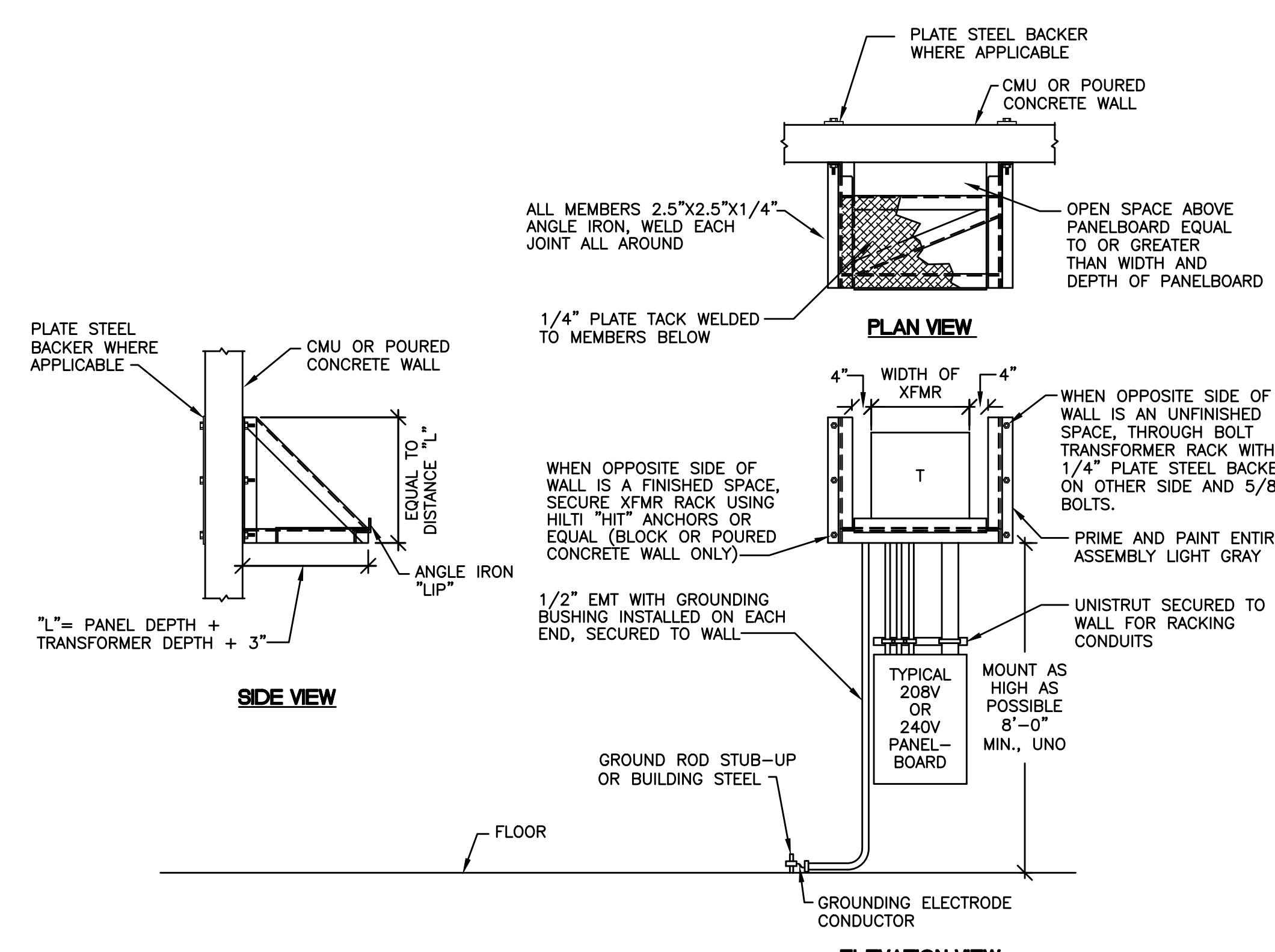
2 POWER PLAN - 2ND FLOOR - PARKS - ADD ALT #1



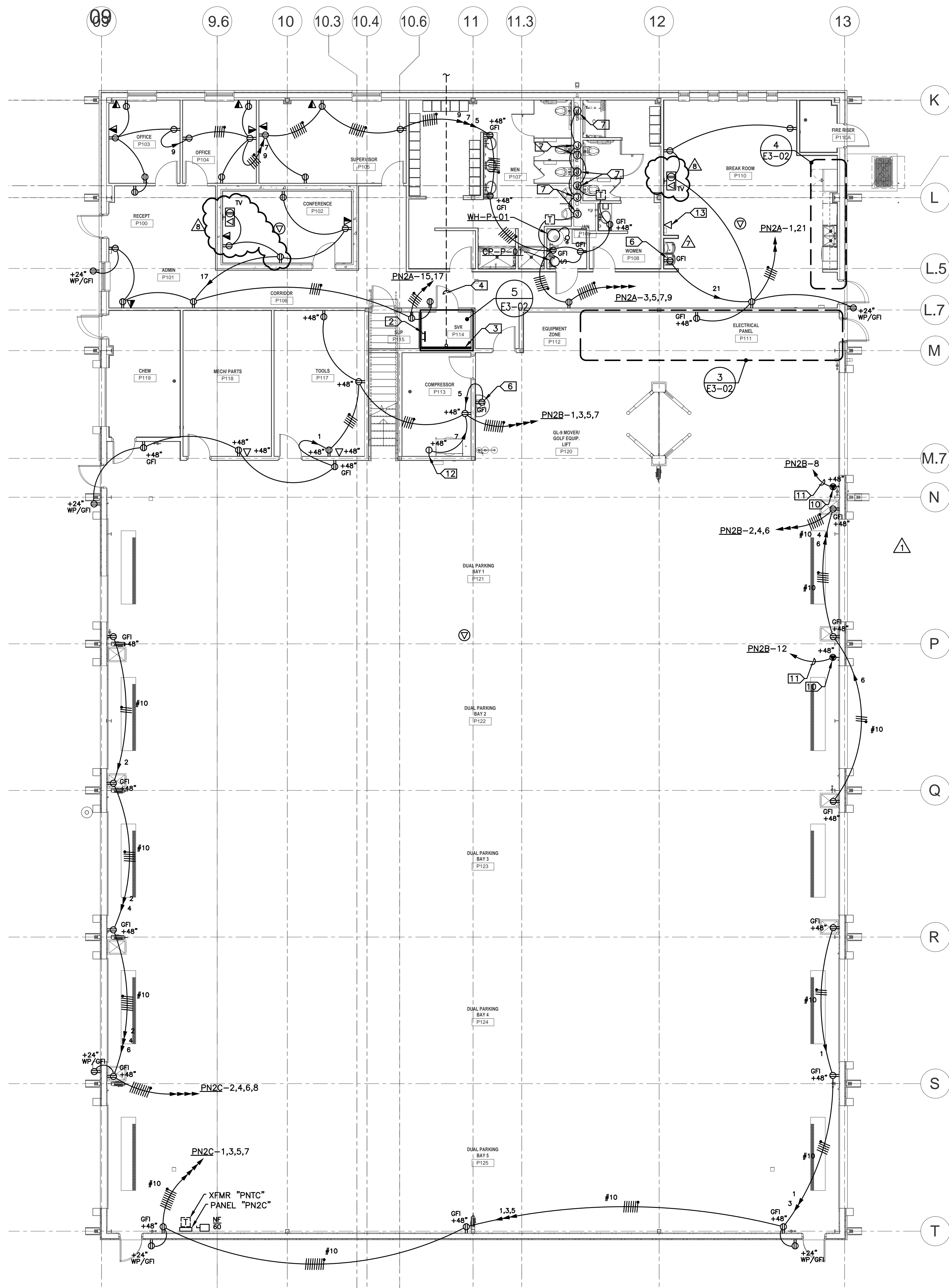
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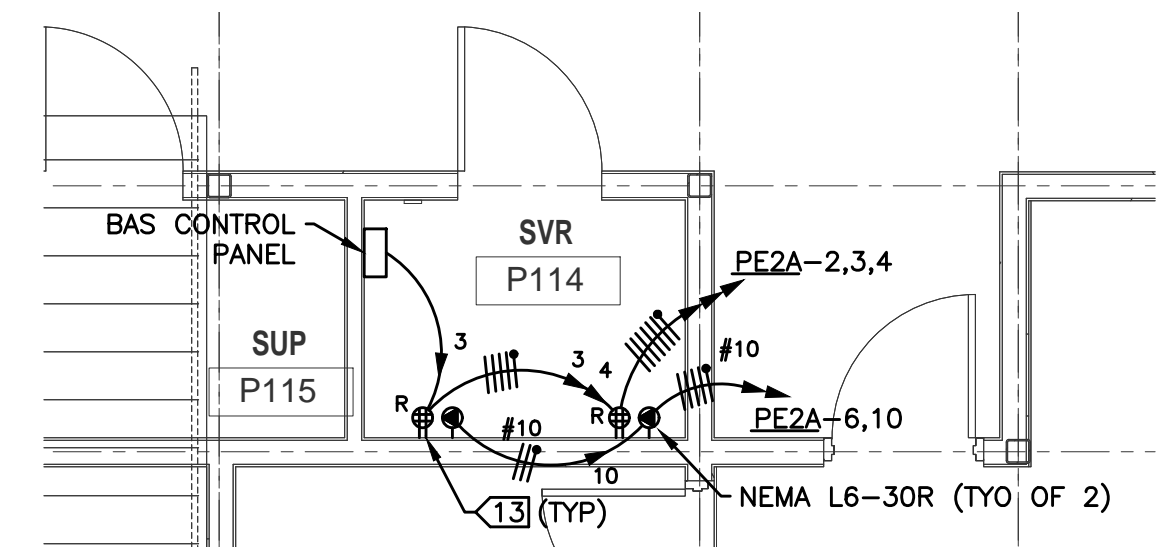
4 ENLARGED BREAK ROOM PLAN - PARKS - ADD ALT #1



A TRANSFORMER WALL MOUNTING DETAIL



1 POWER PLAN - LEVEL ONE - PARKS MAINTENANCE - ADD ALT #1



5 ENLARGED SERVER ROOM PLAN - PARKS

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 - 10A NEMA 6-50R RECEPTACLE.
 - 11.2 #6, 1 #10GND. 3/4"C.
 - RECEPTACLE FOR AIR-DRYER. ACQ-P-01. COORDINATE EXACT MOUNTING LOCATION WITH MECHANICAL.
 - DATA OUTLET FOR TIMELOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.

PARTIAL LEGEND:

RECESSED MULTI-SERVICE TV BOX WITH DUPLEX RECEPTACLE AND CATV COAX CONNECTOR. STUB 3/4" CONDUIT WITH BUSHED END ABOVE AN ACCESSIBLE CEILING FOR COAX CABLE. COORDINATE EXACT ROUGH-IN LOCATION AND HEIGHT WITH ARCHITECT. HUBBELL #NSAV62M/NSAV6C/NSOKP/NSF70W.



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ELECTRICAL ENGINEER
HORNOR ASSOCIATES ENGINEERS
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F: 405.848.9783
www.gsb-inc.com

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REVISIONS

NO.	DATE	DESCRIPTION
09/18/20	ADD. NO. 2	
07/23/21	FORKLIFT & TIMELOCKS	
08/20/21	VENDING MACHINES & TVS	

GSB PROJECT NO.
191650

DRAWING TITLE
POWER PLAN - PARKS
MAINTENANCE

DATE
08/28/2020

DRAWING NO.
E3-02

HAE Homer Associates Engineers, Inc.
1206 Commerce St., Norman, OK 73071
Certificate of Authorization No. CA 3521, Expires 03/30/2021
info@hae.com Ph (405) 801-2528 Fax (405) 801-2529

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PROPOSED CHANGE ORDER SUMMARY

Subcontractor Name (if applicable):

Oakridge Builders a Division of Flintco, LLC

SUBCONTRACTOR WORK or

X CONSTRUCTION MANAGER SELF PERFORMED WORK

THE CITY OF NORMAN

Project Name/#: Norman North Base - Phase 1 - Alternate

CE No: #003

CE Title: Additional Blocking for TVs

CE Date: 9/13/2021

Item No	PCOR Description	Hours	Labor Costs	Material	Equipment		Subcontract Cost
					Type	Cost	
1	Direct Labor (Add Blocking)	2 (@\$45hr)	\$ 90.00				\$ 90.00
2	Direct Materials (Blocking)			\$ 50.00			\$ 50.00
Subtotals			\$ 90.00	\$ 50.00		\$ -	\$ 140.00
	Labor Burden (@ 58%)		\$ 52.20				
	Total Raw Costs		\$ 192.20				
	Overhead *		\$ 14.42				
	Profit *		\$ 14.42				
	Subcontractor's Insurance (applies to subcontractor work only)		\$ -				← do not include an amount here if CM Self Performed Work
	Subcontractor's Bonds (applies to subcontractor work only)		\$ -				← do not include an amount here if CM Self Performed Work
Total for Subcontractor or CM Self-Performed Work			\$ 221.03				· If Subcontractor work, enter total in Section 1 of CM Proposed Change Order Summary form. · If CM Self-Performed work, enter total in Section 3 of CM Proposed Change Order Summary Form.

REVISION 9



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

**Prime Contract Potential Change Order #005: CE #005 - Revision 9
additiona**

TO:	Flintco	FROM:	Orcutt Mechanical Contractors 6200 NW 39th Expressway Oklahoma City, Oklahoma 73008
PCO NUMBER/REVISION:	005 / 0	CONTRACT:	1 - North Base Fleet Contract Prime Contract
REQUEST RECEIVED FROM:		CREATED BY:	Matthew Weber (Orcutt Mechanical Contractors)
STATUS:	Pending - In Review	CREATED DATE:	8/30/2021
REFERENCE:		PRIME CONTRACT CHANGE ORDER:	None
FIELD CHANGE:	No		
LOCATION:		ACCOUNTING METHOD:	Amount Based
SCHEDULE IMPACT:		PAID IN FULL:	No
EXECUTED:	No	SIGNED CHANGE ORDER RECEIVED DATE:	
		TOTAL AMOUNT:	\$2,981.00

POTENTIAL CHANGE ORDER TITLE: CE #005 - Revision 9 additiona

CHANGE REASON: Design Development

POTENTIAL CHANGE ORDER DESCRIPTION: (The Contract Is Changed As Follows)

CE #005 - Revision 9 additional floor drain

Addition of floor drain for ice maker per revised drawings. All concrete cutting removal and replacement by others.

ATTACHMENTS:

[Orcutt CO Form Revision 9.xlsx](#)

Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE



OWNER
CITY OF NORMAN, OKLAHOMA
201 A WEST GRAY STREET
NORMAN, OKLAHOMA 73069
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www.gsb-inc.com

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NORMAN, OK

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REVISIONS		
NO.	DATE	DESCRIPTION
1	9-10-2020	ADD #1
9	8-27-2021	REVISION #9

GSB PROJECT NO.
191650

DRAWING TITLE
PARKS MAINTENANCE
BUILDING ABOVEFLOOR
PLUMBING PLAN

DATE
AUGUST 28, 2020

DRAWING NO.

M2-21

GENERAL STORM SHELTER NOTES:

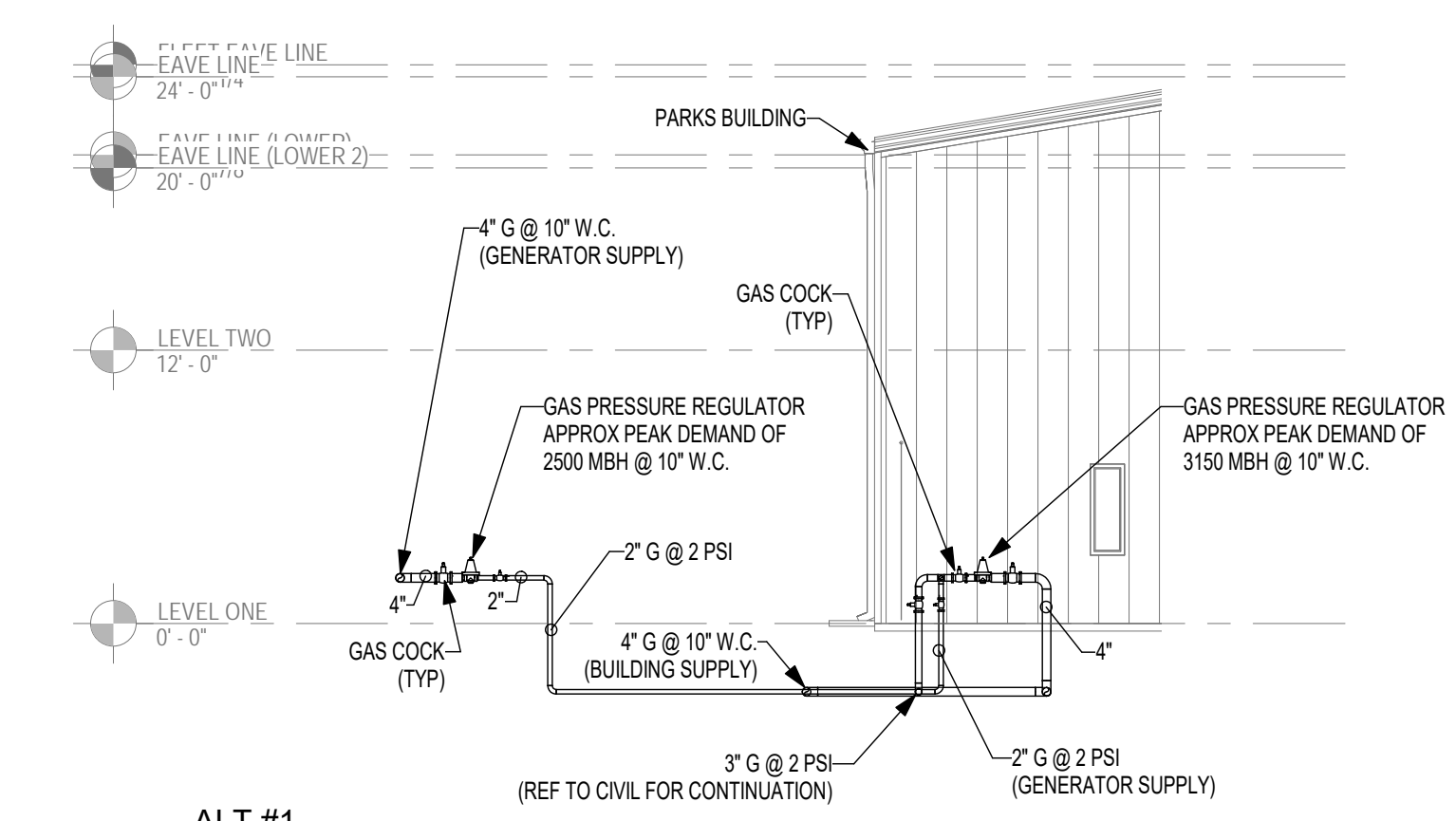
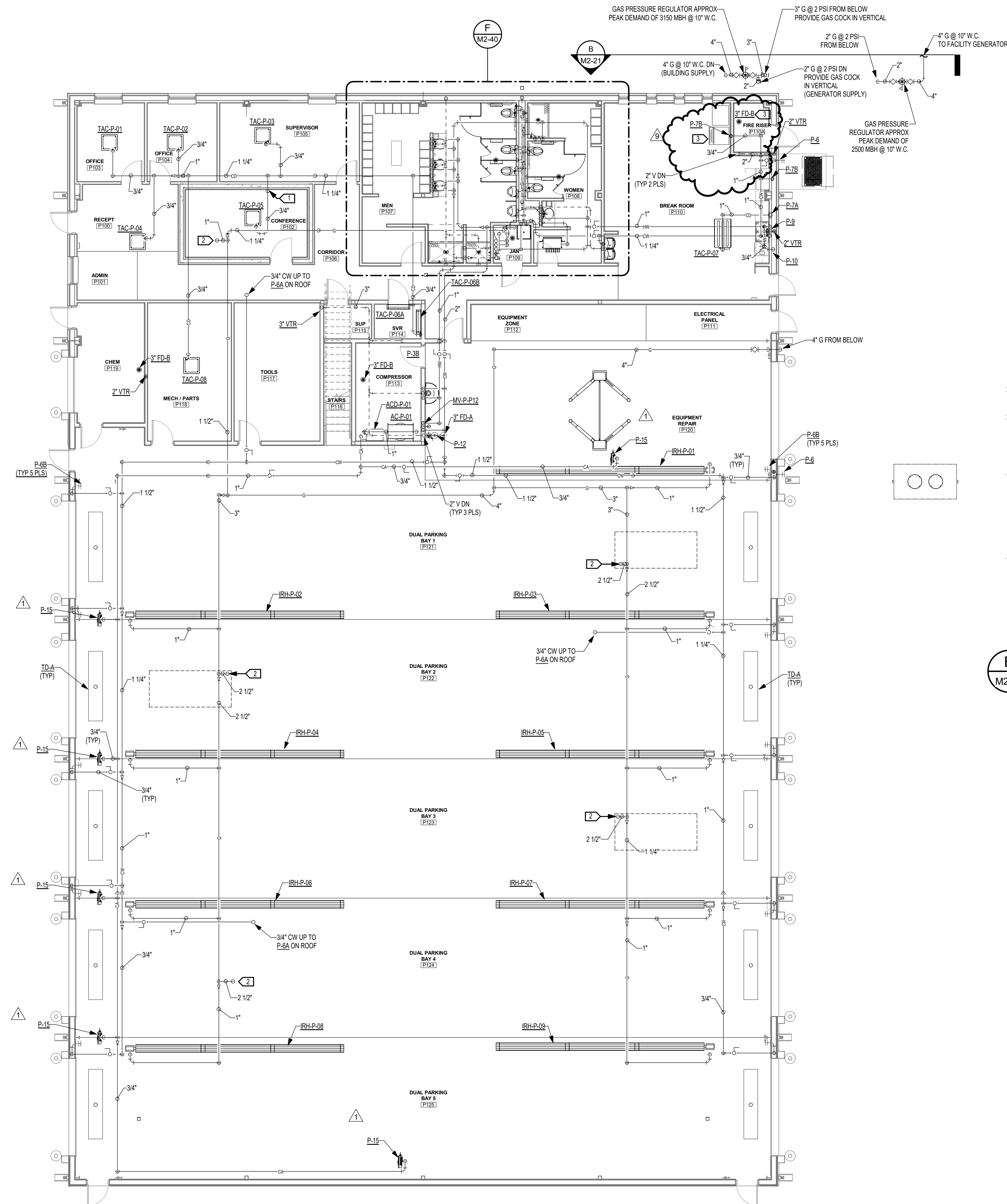
1. ANY PENETRATION EXCEEDING 3 1/2" SQUARE INCHES OR 2 1/8" DIAMETER INTO OR OUT OF STORM SHELTERS SHALL BE PROVIDED WITH FEMA AND ICC-500 APPROVED REINFORCING. REF: STRUCTURAL.
2. ANY PENETRATION OF STORM SHELTER WALLS SHALL HAVE A MINIMUM 2 HR FIRE RATING MAINTAINED.

CNG BAY NOTES:

1. ALL PLUMBING FIXTURES LOCATED IN ROOMS P120, P121, P122, P123, P124, AND P125 SHALL HAVE ELECTRICAL ROUGH-IN MINIMUM OF 20" AFF.

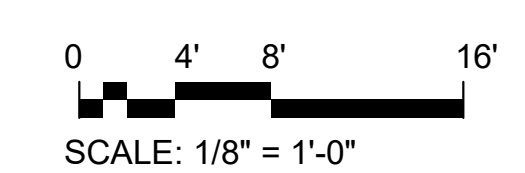
KEYED NOTES:

1. PROVIDE FEMA 361 ICC-500 COMPLIANT REINFORCING FOR SAFE ROOM/TORNADO SHELTER PENETRATIONS. REFER TO STRUCTURAL.
2. GAS UP TO MAINS THROUGH BASE. TYPICAL ALL ROOFTOP MAU.
3. ROUTE ICE MAKER DRAIN TO 2" FLD. PROVIDE IN-DIRECT SECURE CONNECTION.



ALT #1
PARKS BUILDING AND GENERATOR
GAS ENTRY DETAIL
SCALE: NTS

ALT #1
PARKS MAINTENANCE BUILDING
ABOVEFLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



A
M2-21



Allen Consulting Incorporated
110 N. Meriville Dr., Suite 100
Norman, OK 73069-6529
PH: (405) 947-2262 FAX: (405) 947-2284

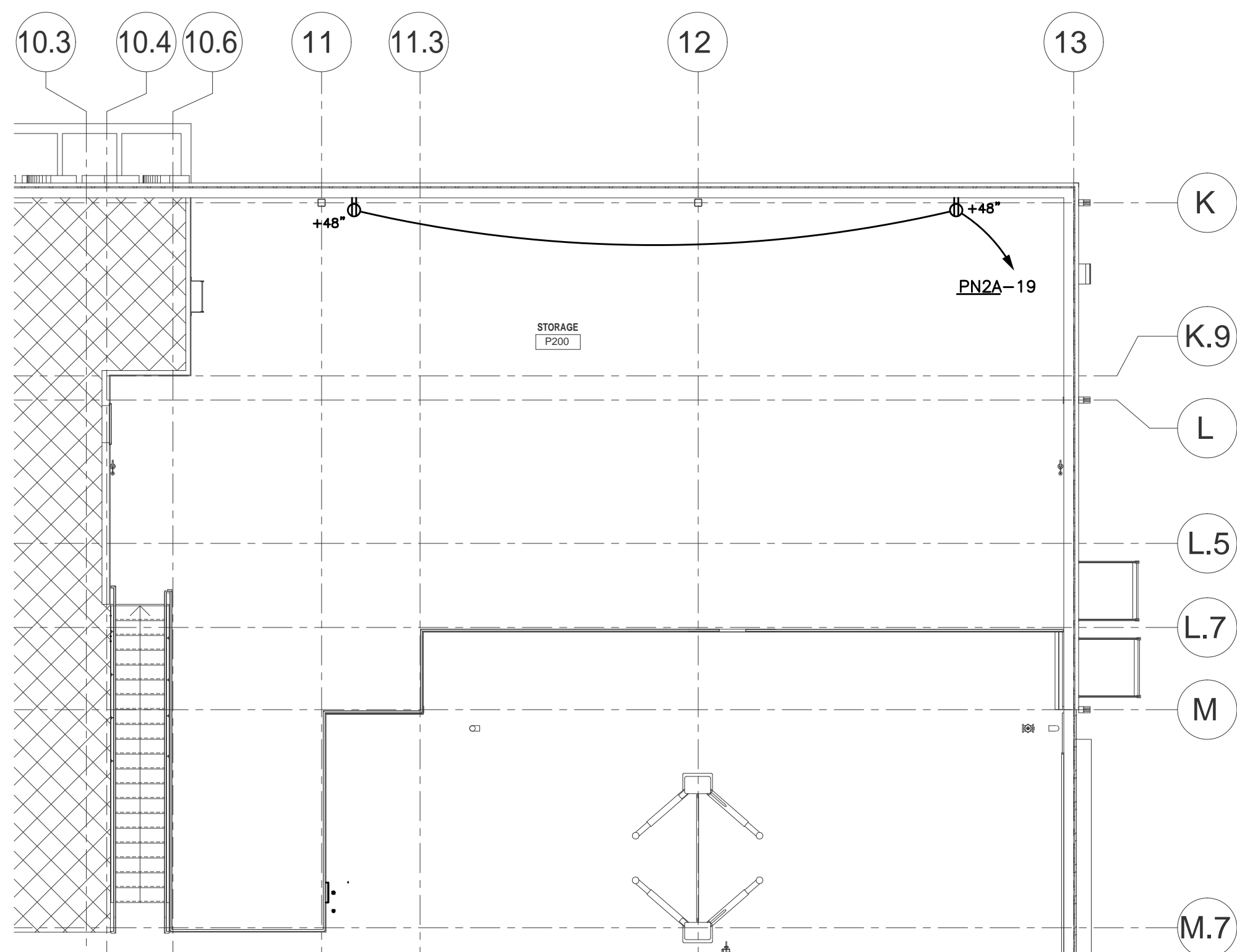
DSE Bidding and Estimating Form

Job: north base

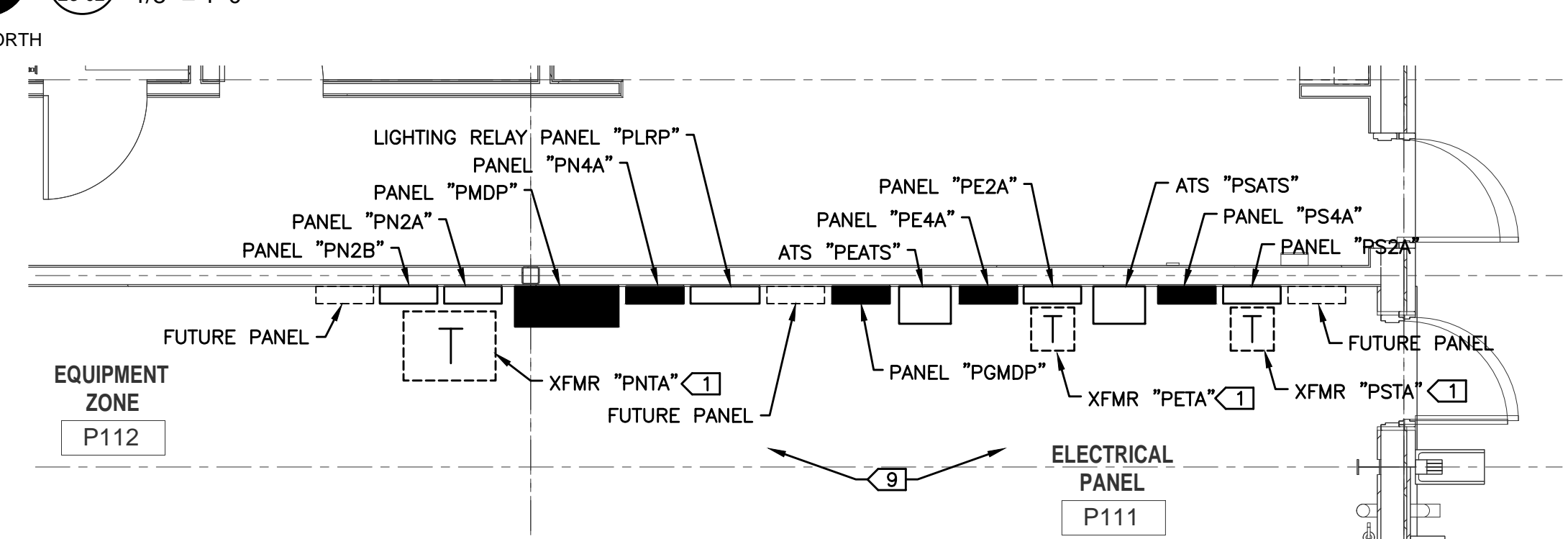
Area: revision #9 parks

Enter E, C or W in Unit				Labor	Ext	Material	Ext	Open	Ext
Item	Qty	Unit	Description	Hours					
1			added 2 receptacles, and 2 circuits						
2						10.00	20.00		
3	2	e	receptacles			12.50	62.50		
4	5	e	10' slicks of 3/4" conduit			25.00	25.00		
5	1	e	3/4" seal off			0.25	62.50		
6	250	e	50x5 of #12 thn	1	4.00				
7	4	e	4 hours labor 1 man						
8									
9									
10									
11									
12									
13									
14									
15									
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29									
30									
31									
32				Totals	1	4.00	170.00		0.00

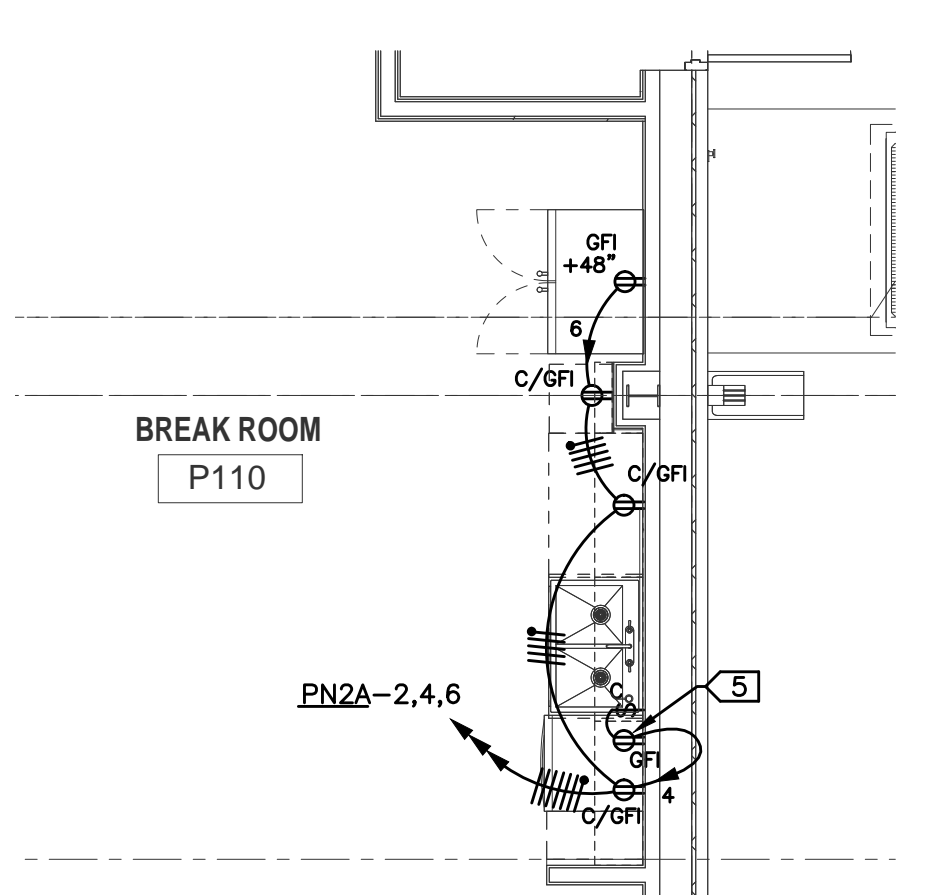
Labor Hour Rate	60	Total Labor	240
Tax Rate		Total Material	196
Profit	15.00%	Total Opening	0
		Total	436



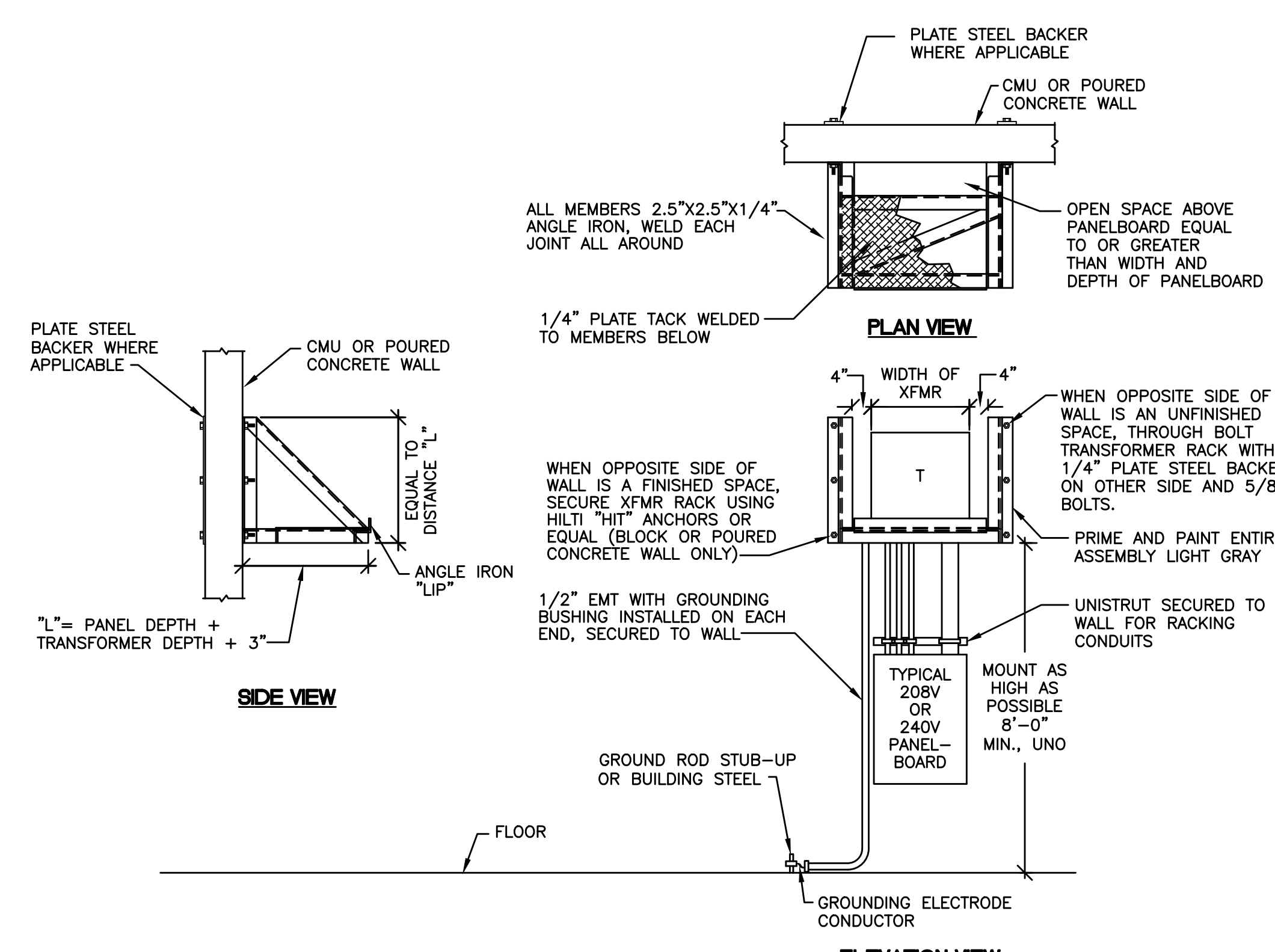
2 POWER PLAN - 2ND FLOOR - PARKS - ADD ALT #1



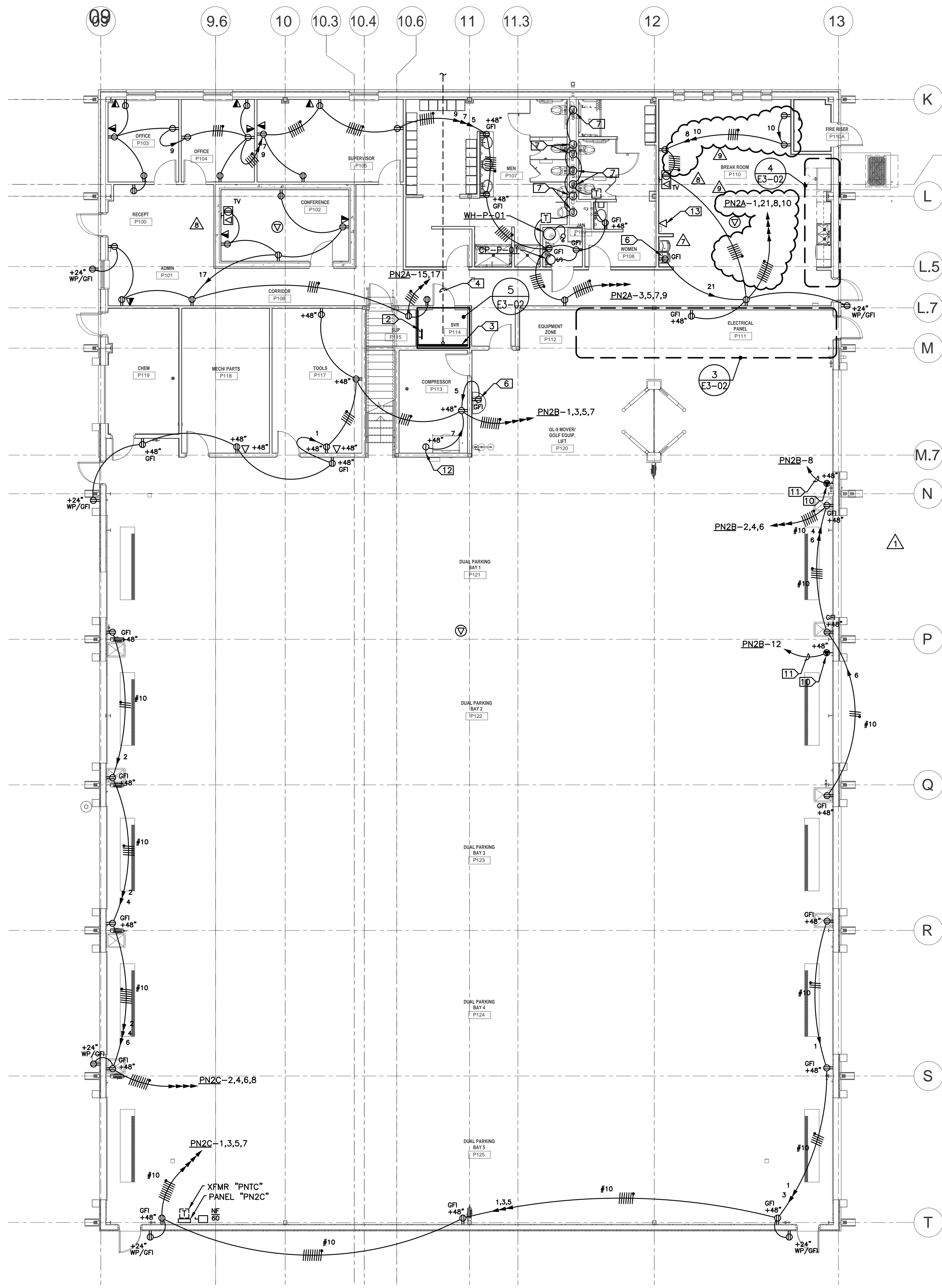
3 ENLARGED POWER DISTRIBUTION PLAN - PARKS - ADD ALT #1



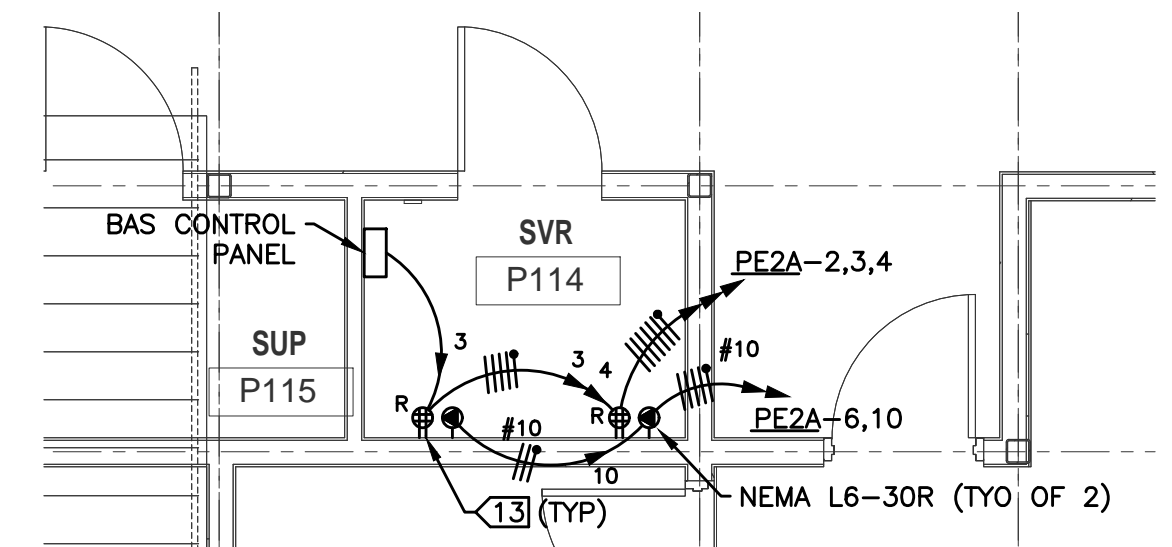
4 ENLARGED BREAK ROOM PLAN - PARKS - ADD ALT #1



A TRANSFORMER WALL MOUNTING DETAIL



1 POWER PLAN - LEVEL ONE - PARKS MAINTENANCE - ADD ALT #1

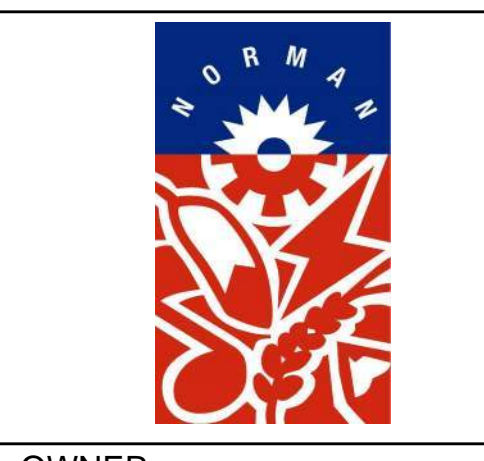


5 ENLARGED SERVER ROOM PLAN - PARKS

- GENERAL NOTES:**
- ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVICING GASOLINE AND CNG VEHICLES.
 - SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.
 - CNG HAZARDOUS AREA REQUIREMENTS AT THE CEILING SHALL BE MET BY USE OF A VENTILATION SYSTEM TO PROVIDE THE REQUIRED AIR CHANGES PER HOUR IN ACCORDANCE WITH NEC TABLE 511.3(D). NO CNG HAZARDOUS AREA SHALL BE REQUIRED AT THE CEILING.
 - ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.
 - OFFICE AREA SHALL BE PROVIDED WITH POSITIVE PRESSURE HVAC AND SHALL NOT BE CLASSIFIED HAZARDOUS.
 - PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.
 - HOMERUN CIRCUITS AS SHOWN, DO NOT COMBINE HOMERUNS.
 - CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY-IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATIONS.
 - COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECT.
 - 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.
 - CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.
 - CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.
 - PROVIDE 120V GFCI DUPLEX RECEPTACLE AND DIGITAL CONNECTED TO NEAREST RECEPTACLE CIRCUIT AT EACH P-TRAP PRIMER. RE: MECHANICAL DRAWINGS FOR LOCATIONS.
 - RE: CONVERGENT DRAWINGS FOR ACCESS CONTROL & CCTV CONDUITS AND ENCLOSURES TO BE PROVIDED UNDER THIS CONTRACT. THIS CONTRACTOR SHALL PROVIDE ALL CONDUIT AND POWER CIRCUITING REQUIRED BY THOSE DRAWINGS.

- KEYED NOTES:**
- WALL MOUNTED TRANSFORMER. RE: DETAIL "A" THIS SHEET.
 - GROUND BAR MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH OWNER. RE: ONE-LINE DIAGRAM AND GROUND BAR DETAIL "B", SHEET E5.01.
 - (3) 4" PVC CONDUITS ROUTED 36" BFG FOR COMMUNICATIONS CABLING. STUB CONDUITS UP 4" AFF AT TELEPHONE TERMINAL BOARD "TTBP". RE: SHEET E1-01 FOR CONTINUATION.
 - SPLIT DUPLEX RECEPTACLE (TOP HALF SWITCHED) AND COUNTER MOUNTED SWITCH FOR IN-SINK GARBAGE DISPOSAL AND DISHWASHER. RECEPTACLE MOUNTED BELOW COUNTER. COORDINATE SWITCH AND RECEPTACLE MOUNTING HEIGHTS AND LOCATIONS WITH MILLWORK.
 - RECEPTACLE FOR PLUMBING FIXTURE. MOUNT BEHIND EQUIPMENT SHROUD. COORDINATE WITH EQUIPMENT INSTALLER. DO NOT MOUNT LOWER THAN 20" TO BOTTOM OF BOX.
 - PROVIDE JUNCTION BOX FOR AUTOMATIC TOILET/URINAL FLUSH VALVE. COORDINATE EXACT LOCATION WITH PLUMBER.
 - FLUSH VALVE LOW VOLTAGE TRANSFORMER MOUNTED ABOVE CEILING.
 - ALL CONDUIT STUB-UPS IN THE HAZARDOUS AREA SHALL COMPLY WITH NEC REQUIREMENTS. PROVIDE PVC COATED RGSC CONDUIT STUBBED AT LEAST 19" AFF SO THERE ARE NO FITTINGS WITHIN THE HAZARDOUS AREA.
 10. NEMA 6-50R RECEPTACLE.
 11. 2 #6, 1 #10GND. 3/4"C.
 - RECEPTACLE FOR AIR-DRYER. AC-P-01. COORDINATE EXACT MOUNTING LOCATION WITH MECHANICAL.
 - DATA OUTLET FOR TIMELOCK. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER.

- PARTIAL LEGEND:**
- TV RECESSED MULTI-SERVICE TV BOX WITH DUPLEX RECEPTACLE AND CATV COAX CONNECTOR. STUB 3/4" CONDUIT WITH BUSHED END ABOVE AN ACCESSIBLE CEILING FOR COAX CABLE. COORDINATE EXACT ROUGH-IN LOCATION AND HEIGHT WITH ARCHITECT.
 - HUBBELL #NSAV62M/NSAV6C/NSOKP/NSF70W.



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gsb 3555 NW 58th Street
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F: 405.948.9783
www.gsb-inc.com

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REVISIONS

NO.	DATE	DESCRIPTION
09/18/20	ADD. NO. 2	
07/23/21	FORKLIFT & TIMELOCKS	
08/20/21	VENDING MACHINES & TVS	

GSB PROJECT NO.
191650

DRAWING TITLE
POWER PLAN - PARKS
MAINTENANCE

DATE
08/28/2020

DRAWING NO.
E3-02

HAE Homer Associates Engineers, Inc.
1206 Commerce St., Norman, OK 73071
Certificate of Authorization No. CA 3520, Expires 03/30/2021
info@hae.com Ph (405) 801-2528 Fax (405) 801-2529

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**ADDITIONAL
SECURITY &
ACCESS
CONTROL**

DSE Bidding and Estimating Form

Job: north base

Page # 9

Area: rfi 041 parks

Enter E, C or W in Unit

Item	Qty	Unit	Description	Labor Hours	Ext	Material	Ext	Open	Ext
1									
2									
3	13.5	e	10' sticks of 1" emt			22.00	297.00		
4	11.5	e	10' sticks of 1.5" emt			44.00	506.00		
5	16	e	16 hours labor 1 man	1	16.00				
6									
7									
8									
9	1	e	deduct for drop ceiling			-1,060.00	-1060.00		
10									
11									
12									
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15									
16									
17									
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27									
28									
29									
30									
31									
32									
Totals				1	16.00		-257.00		0.00

Labor Hour Rate	60	Total Labor	960
Tax Rate		Total Material	-296
Profit	15.00%	Total Opening	0
		Total	664

Total Page 9



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Additional Security & Access Control Conduit

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	06/04/2021	STATUS:	Open
REFERENCE:		DUE DATE:	06/15/2021
COST IMPACT:	Yes (Unknown)	SCHEDULE IMPACT:	No
LINKED DRAWINGS:		RECEIVED FROM:	Brandon Reed (Don Schimmel & Electric, Inc.)

COPIES TO:

Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Geoff Evans (Planning Design Group), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Sarah Hendrickson (ADG), Joseph Hill (City of Norman), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.)

Question from Zack Blair (Flintco, LLC - OKC) at 02:31 PM on 06/04/2021

Reference Electrical, Convergent Drawings, and SK-1

On May 27th, 2021, a coordination meeting was held with FLintco, City of Norman, and Convergent present, with the main topic regarding exposed raceways/cablings in the shop area. In the electrical drawings, general note "N" calls for the electrical contractor to provide all raceways shown on Convergent drawings. The raceways needed for convergent to get their cabling back to the comm room were not shown, and only the conduit required for the door access control was shown in the original Convergent drawings. After talking this through with Convergent, and Paul D'andrea, we all agreed that the access control wiring above dropped ceilings could be eliminated and Convergent's wiring could be free air with J-hooks in thos areas, eliminating the need for conduit above ceiling. The intention was to have a wash between eliminating the aforementioned conduit and adding the conduit across the shop/bay areas as shown in Convergints revised drawings, however, the revised conduit routing exceeds the original quote by approximately \$1500.

Please advise if Flintco should proceed with installing the added conduit per the revised Convergent Drawings at an additional ROM of \$1500.

Attachments:

[RFI #041 - SK1.pdf](#)

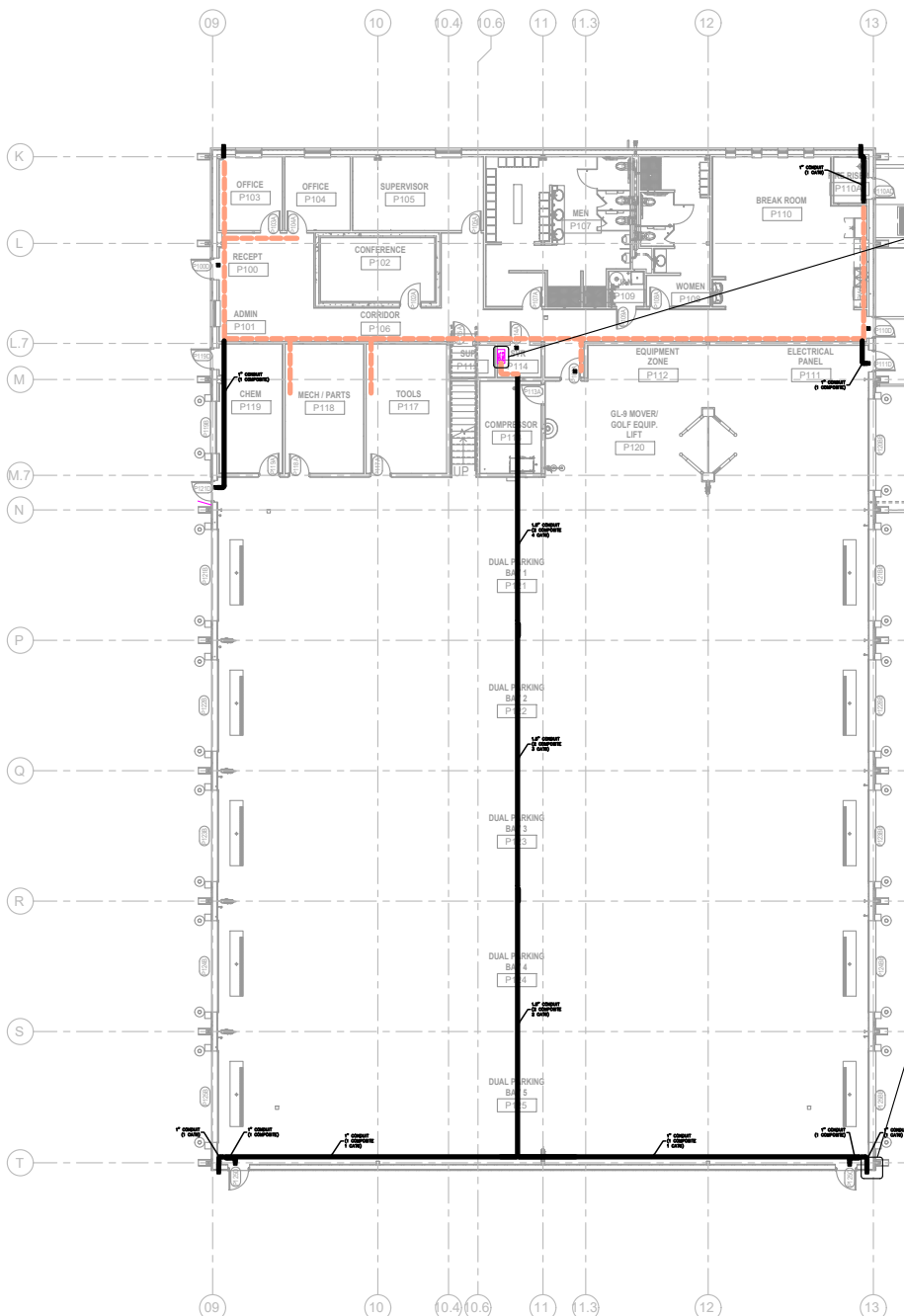
Official Response

Awaiting an Official Response

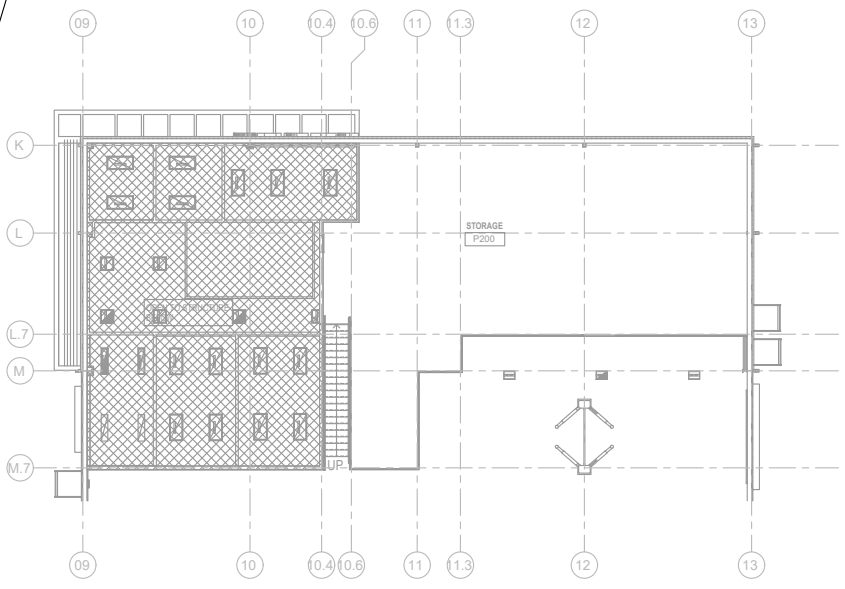
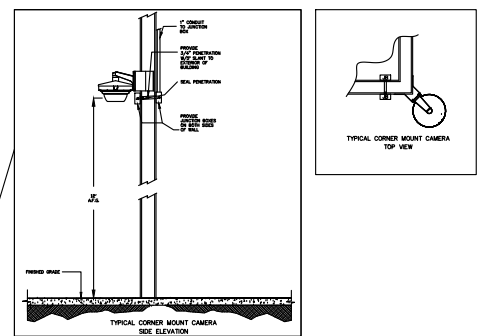
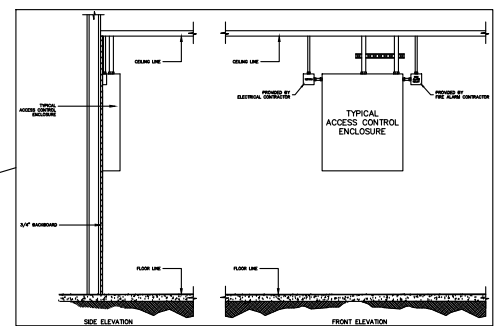
All Replies: [ARCHITECT RESPONSE | JULY 20, 2021:](#)

FLINTCO MAY PROCEED WITH THE INSTALLATION OF THE ADDED CONDUIT PER THE REVISED CONVERGINT DRAWINGS FOR THE ADD OF \$1,500.

MICHAEL SEGROVES, AIA / AICP
PROJECT ARCHITECT | GSB, INC. ARCHITECTS & PLANNERS



FLOOR PLAN - LEVEL ONE - PARKS MAINTENANCE
1/8" = 1'-0"
PLAN NORTH



FLOOR PLAN - LEVEL TWO - PARKS MAINTENANCE
1/8" = 1'-0"
PLAN NORTH

ACCESS CONTROL LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	ACCESS CONTROL PANELS
[Symbol]	CARD READER
[Symbol]	REQUEST TO EXIT MOTION SENSOR
[Symbol]	ELECTRIC STRIKE
[Symbol]	DOOR CONTACT
[Symbol]	ELECTRIFIED EXIT DEVICE
[Symbol]	ELECTRIFIED HARDWARE POWER SUPPLY
[Symbol]	ELECTRIFIED LOCKSET
CCTV LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	INDOOR DMP IP FIXED CAMERA
[Symbol]	INDOOR DMP IP FIXED CAMERA
[Symbol]	INDOOR/OUTDOOR 20MP MULTISENSOR IP CAMERA
[Symbol]	DEVICES SHOWN IN LEGEND ARE TO BE PROVIDED BY SECURITY CONTRACTOR
CONDUIT LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	J-HOOKS (SEE ADDENDUM # 8 FOR MAX SPACING)
[Symbol]	CONDUIT (SEE FLOOR PLAN NOTES FOR CONDUIT SIZE)

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NORMAN, OK

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REVISIONS		
NO.	DATE	DESCRIPTION

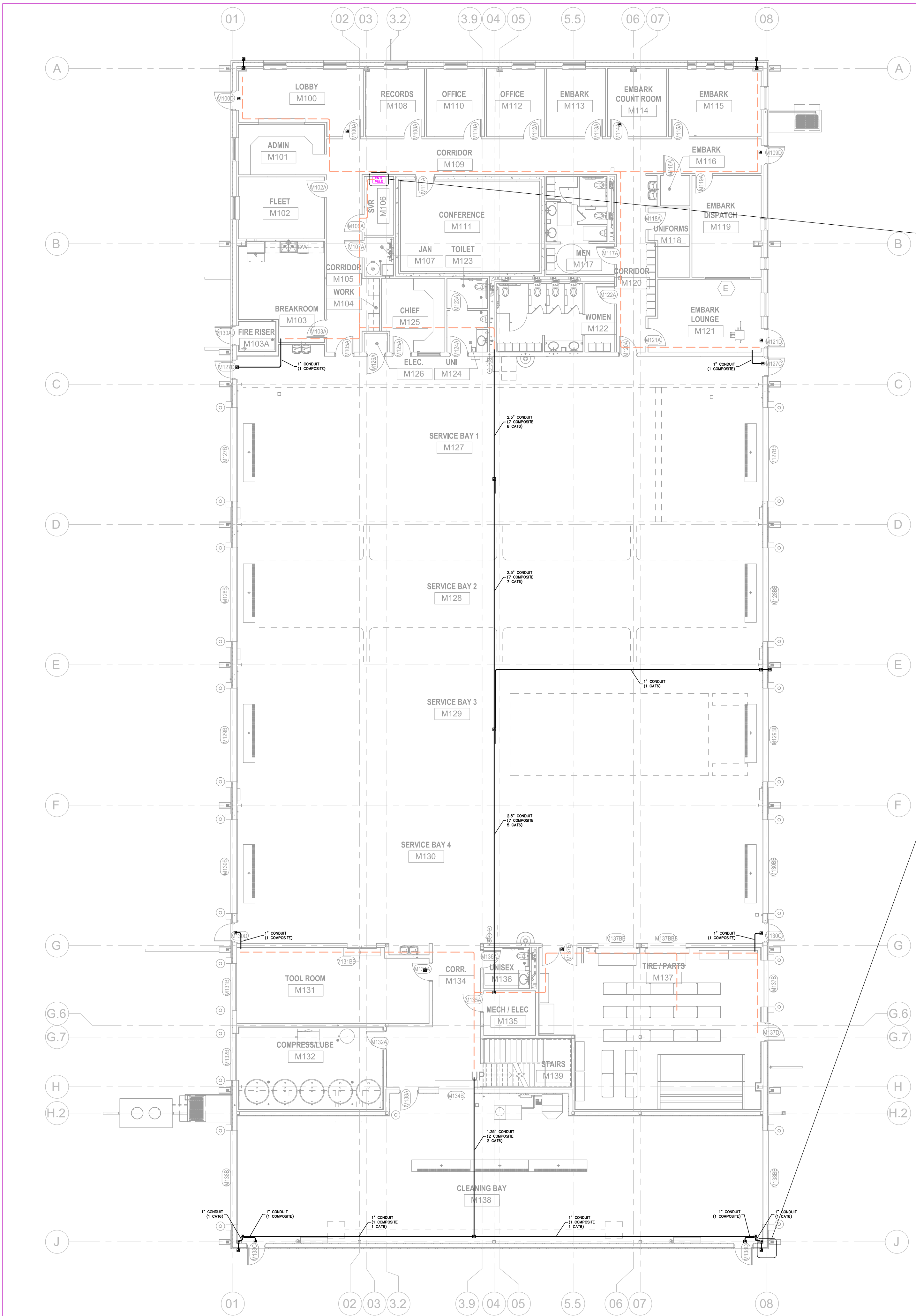
REVISIONS		
NO.	DATE	DESCRIPTION

GSB PROJECT NO.
191650

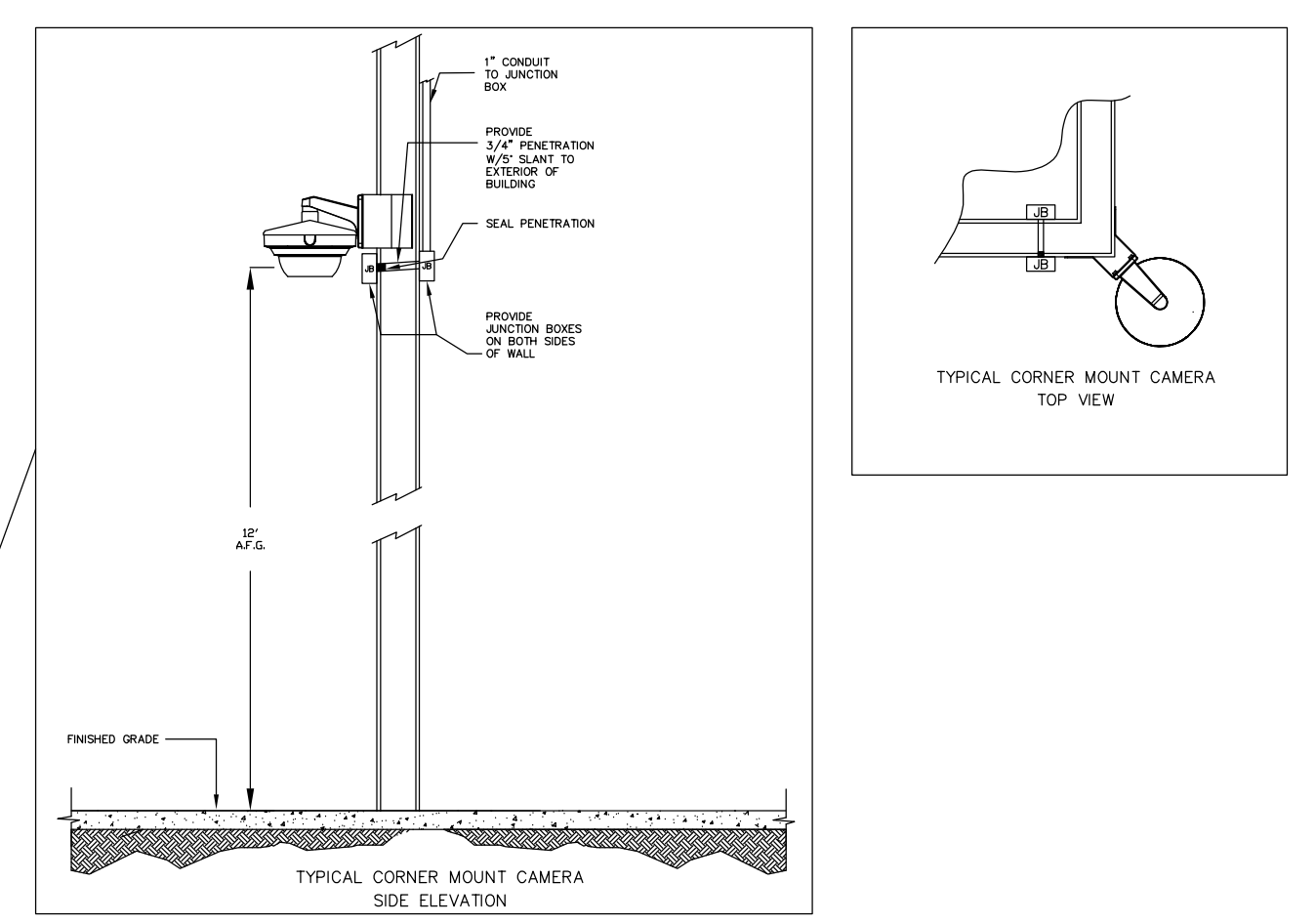
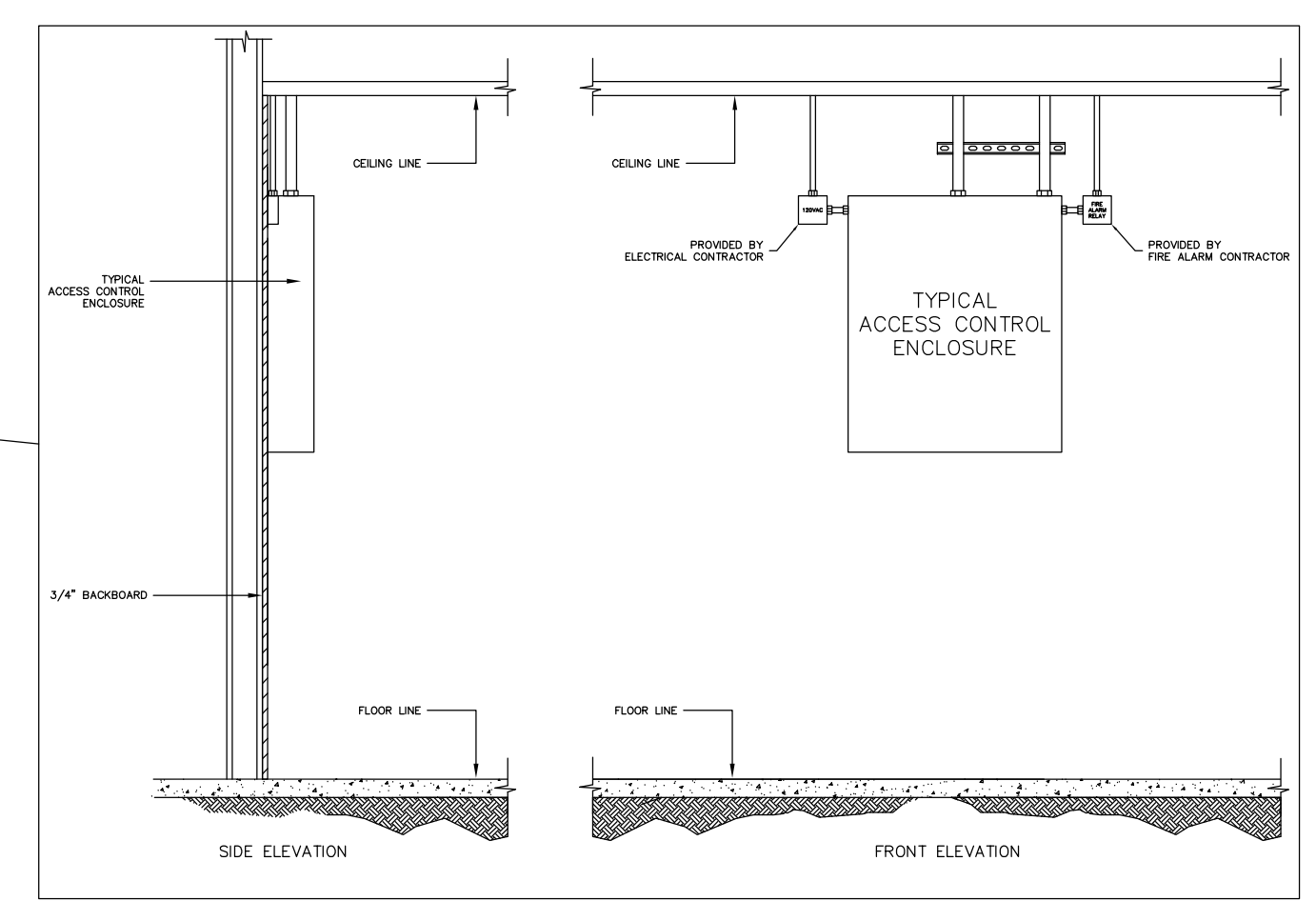
DRAWING TITLE
FLOOR PLAN - PARKS MAINTENANCE (ADD ALTH1)

DATE
XXXX/2020

DRAWING NO.
XX-XX



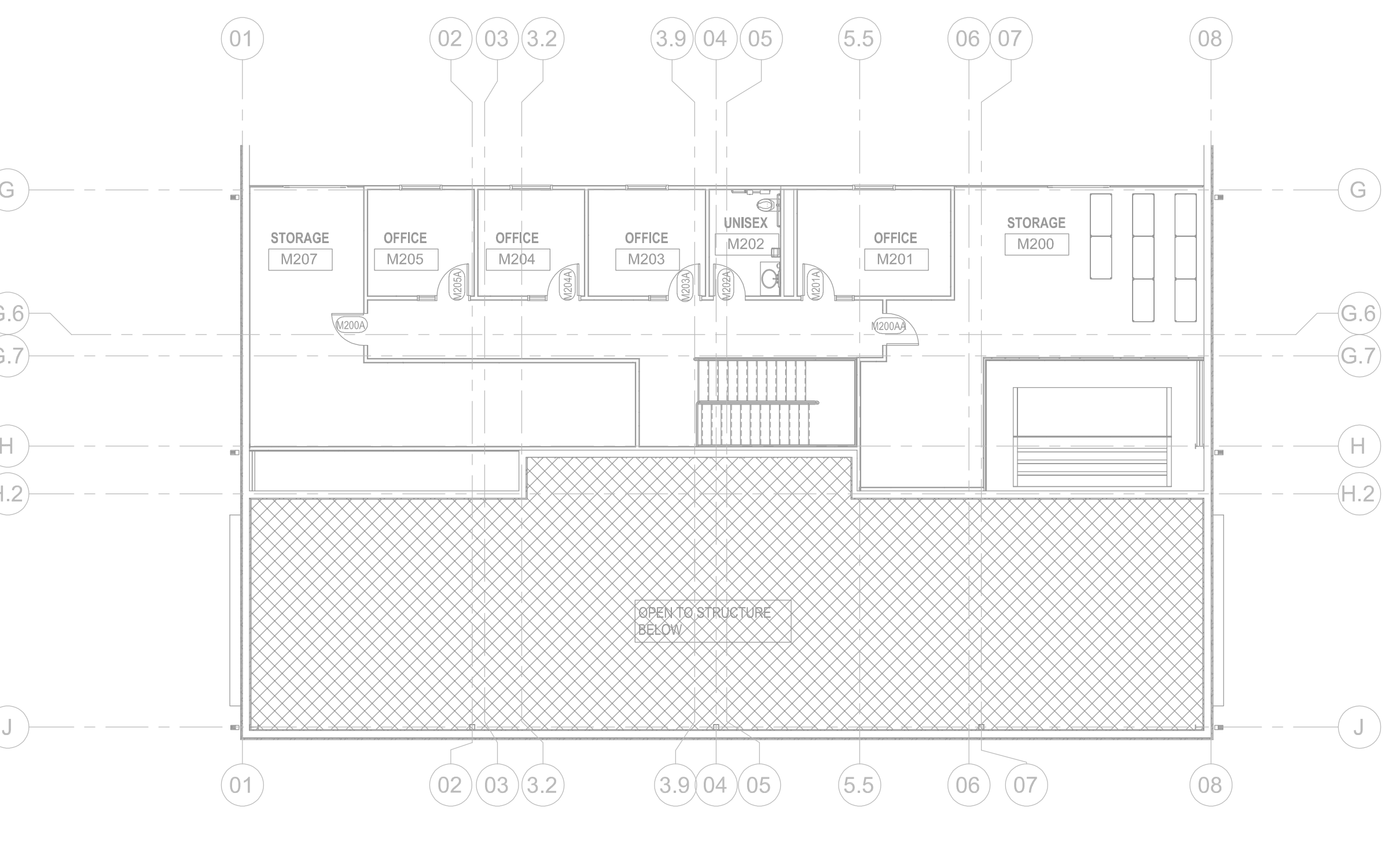
1 FLOOR PLAN - LEVEL ONE - FLEET MAINTENANCE
1/8" = 1'-0"
PLAN NORTH



ACCESS CONTROL LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	ACCESS CONTROL PANELS
[Symbol]	CARD READER
[Symbol]	REQUEST TO EXIT MOTION SENSOR
[Symbol]	ELECTRIC STRIKE
[Symbol]	DOOR CONTACT
[Symbol]	ELECTRIFIED EXIT DEVICE
[Symbol]	ELECTRIFIED HARDWARE POWER SUPPLY
[Symbol]	ELECTRIFIED LOCKSET
CCTV LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	INDOOR 5MP IP FIXED CAMERA
[Symbol]	OUTDOOR 5MP IP FIXED CAMERA
[Symbol]	INDOOR/OUTDOOR 20MP MULTISENSOR IP CAMERA

DEVICES SHOWN IN LEGEND ARE TO BE PROVIDED BY SECURITY CONTRACTOR.

CONDUIT LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	J-HOOKS (SEE ACCORDINGLY & 8" MAX SPACING)
[Symbol]	CONDUIT (SEE FLOOR PLAN NOTES FOR CONDUIT SIZES, SIZES ARE CONSIDERED MINIMUM)



2 FLOOR PLAN - LEVEL TWO- FLEET MAINTENANCE
1/8" = 1'-0"
PLAN NORTH

OWNER
CITY OF NORMAN, OKLAHOMA
201 A WEST GRAY STREET
NORMAN, OKLAHOMA 73069
(405) 366-5406
www.normanOK.gov

ARCHITECT
GSB, INC
3505 NW 58th Street, Suite 700W
Oklahoma City, OK 73112
(405) 848-8548
www.gsb-inc.com

CIVIL ENGINEER
JOHNSON & ASSOCIATES
1 EAST SHERIDAN AVE - STE. 200
OKLAHOMA CITY, OKLAHOMA 73104
(405) 235-0375
www.jacok.com

STRUCTURAL ENGINEER
WALLACE ENGINEERING
410 NORTH WALNUT AVE - STE. 200
OKLAHOMA CITY, OKLAHOMA 73104
(405) 236-6586
www.wallaceinc.com

M/P/FP ENGINEER
ALLEN CONSULTING, INC.
110 NORTH MERCEDES DRIVE
NORMAN, OK 73069
(405) 828-7702
www.alcinc.com

ELECTRICAL ENGINEER
HORNER ASSOCIATES ENGINEERS
1308 COMMERCIAL DRIVE
NORMAN, OKLAHOMA 73071
(405) 801-2528
www.haerinc.com

LANDSCAPE ARCHITECT
PLANNING DESIGN GROUP
5314 SOUTH YALE AVE - STE. 510
TULSA, OKLAHOMA 74138
(918) 828-1255
www.planningdesigngroup.com

CITY OF NORMAN
NORTH BASE COMPLEX - PHASE 1
1310-1380 DA VINCI STREET
NORMAN, OK

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REVISIONS		
NO.	DATE	DESCRIPTION

GSB PROJECT NO.
191650

DRAWING TITLE
FLOOR PLAN - FLEET MAINTENANCE

DATE
XX/XX/2020

DRAWING NO.
XX-XX

**TILE CHANGE
FROM 12x24
TO 18x35**

APEX FLOORING

RYAN ELDRIDGE

17885 S Sunnyslane Rd

Norman, Ok 73071

Cell (405) 606-9416

ryan@apex-flooring.com

September 2, 2021

To: Cory Rackley

From: Ryan Eldridge

Project Name: Norman North Base Complex

Sections Included: Ceramic Tiling

Labor and Materials are Included in the Following:

Emser Blue Emotion Dark 18x35 in lieu of specified 12x24 floor tile

Labor.....\$ 1,147.00

Thinset.....\$ 57.00

Leveling Clips.....\$ 357.00

TOTAL ADD for 18x35 in lieu of specified 12x24.....\$ 1,561.00

Note: 1/2 Parks, 1/2 Fleet or \$780.50 each

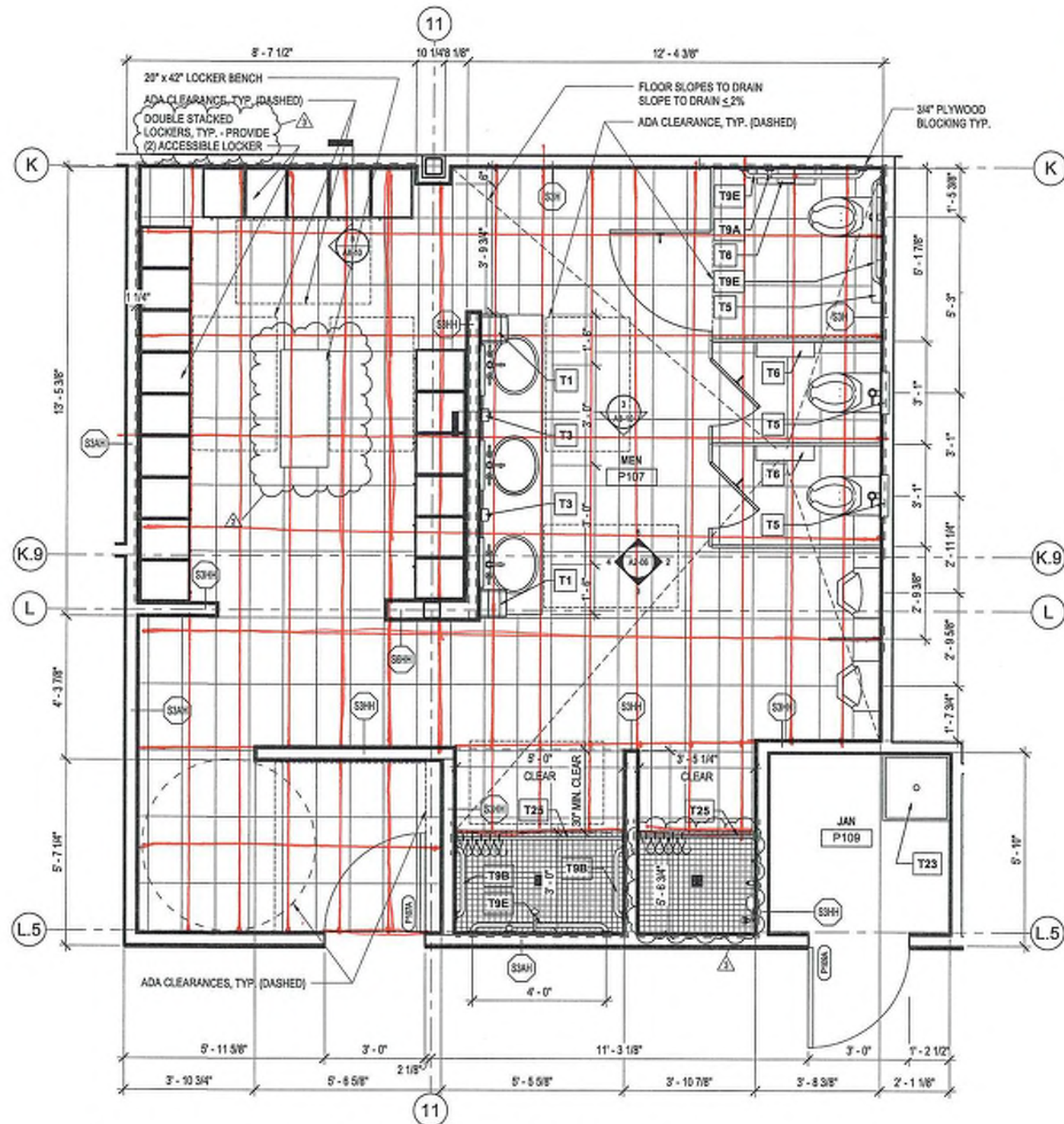
Add On: bonds add 1.5%

Bid Exclusions: Demo, Unforeseen Conditions, Moisture Related Subfloor Failures, cost of any/all subcontract bonds, dumpster, major floor prep, leveling or floating to transitions, furniture moving, final clean, floor protection, hoisting, overtime, mud beds, clean up or any scraping of debris from other trades, cement backer boards, epoxy/stained/sealed concrete.

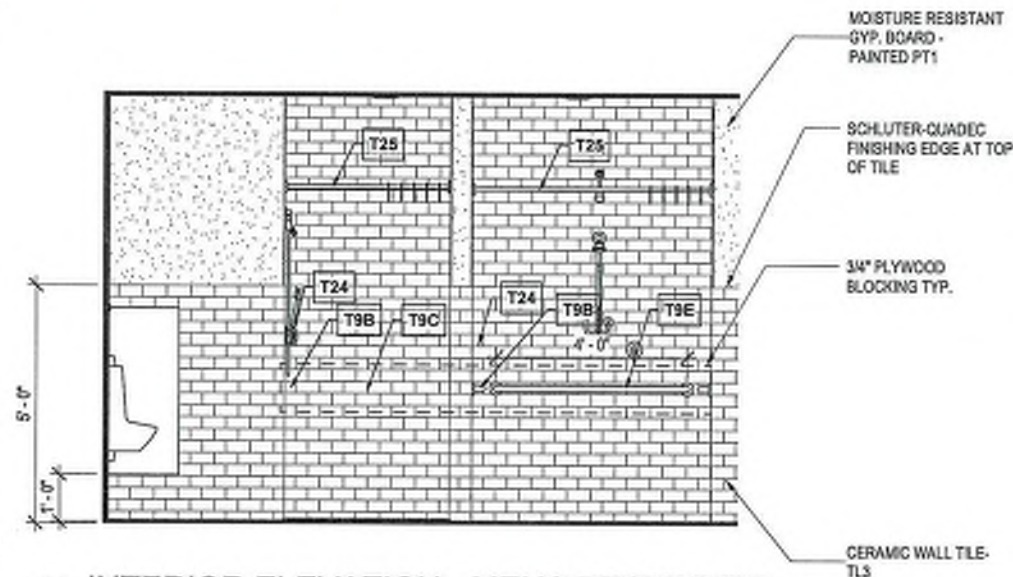
*****Notes:** This proposal includes standard floor prep(1 bag per 1000sf). Standard floor prep is defined as slab blemishes, minor cracks, and nail holes. Any additional bags will result in a change order and must be approved before any work will be performed. A moisture test will be performed on every job prior to installation to determine moisture and PH level of slab. Moisture remediation if required will be considered a change order. All epoxy grout/mortars and cement backer boards are excluded from bids including ceramic tile. All grouts and setting materials are standard unless otherwise noted above. **WARRANTY: 1 year for workmanship only.*****

PARKS MAINTENANCE
P107

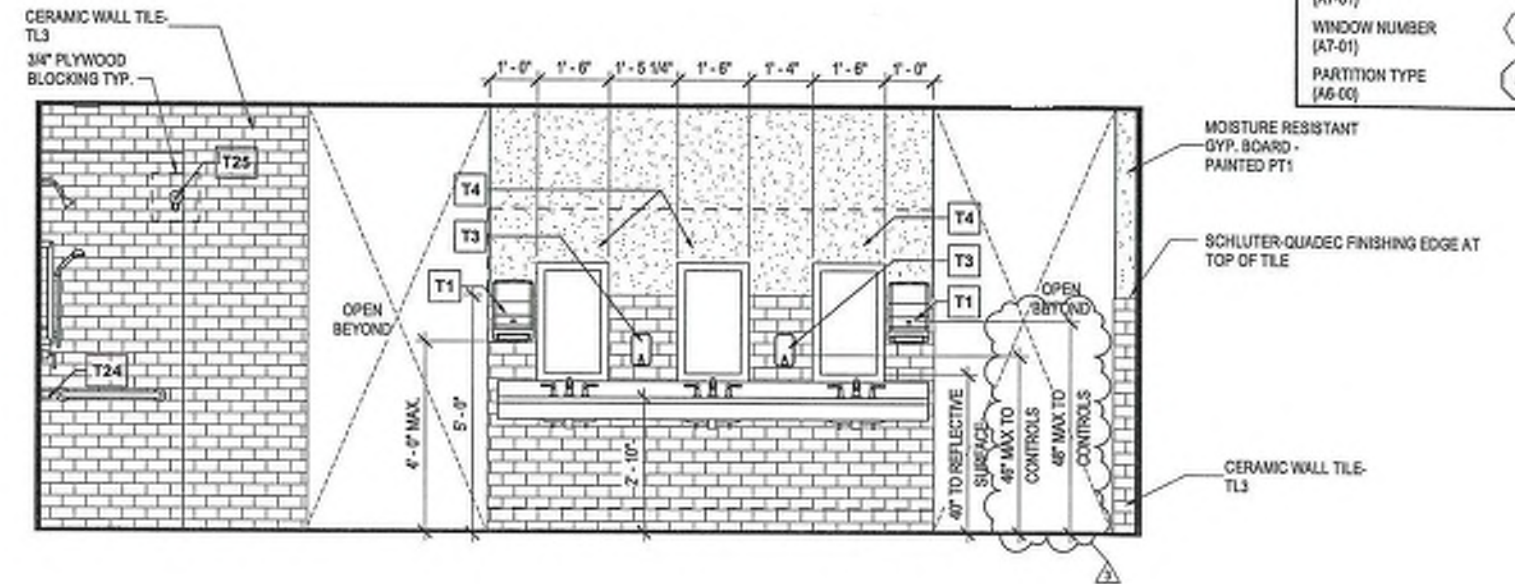
13 x 36



1 ENLARGED FLOOR PLAN - MENS RESTROOM
A2-06 1/2" = 1'-0"
PLAN NORTH



3 INTERIOR ELEVATION - MENS RESTROOM
A2-06 1/2" = 1'-0"



4 INTERIOR ELEVATION - MENS RESTROOM
A2-06 1/2" = 1'-0"

PARTITION TYPE LEG

BASIC MATERIAL:
C CONCRETE
M MASONRY (CMU)
S STUD

BASIC SIZE:
0 7/8" FURRING CHANNEL
1 1 5/8" STUD
2 2 1/2" STUD
3 3 5/8" STUD
4 4" CONCRETE, MASONRY OR STU
6 6" CONCRETE, MASONRY OR STU
8 8" CONCRETE, MASONRY OR STU

APPLIED LAYERS:
A 1 LAYER 5/8" GYPSUM BOARD
B 2 LAYERS 5/8" GYPSUM BOARD
C 1 LAYER 1/2" GYPSUM BOARD
D 2 LAYERS 1/2" GYPSUM BOARD
E RESERVED
F 1 LAYER 5/8" CEMENTITIOUS BACK
G 1 LAYER 1/2" CEMENTITIOUS BACK
H 1 LAYER 5/8" MOISTURE RESISTAN
J 1 LAYER 1/2" MOISTURE RESISTAN
K SHAF/WALL CONSTRUCTION

PARTITION TYPE SYMBOL:
BASIC MATERIAL
BASIC SIZE
APPLIED LAYERS CO
MODIFYING CONDIT

MODIFYING CONDITIONS:
1. 4" SOUND ATTENUATION BLANKETS I
2. USE 5/8" TYPE "X" GYPSUM BOARD

LEGEND:
S3A.1 1 LETTER = LAYER 0
2 LETTERS = LAYER

FLOOR PLAN LE

ROOM REFERENCE	ROOM NAME
101	101
101	101
11	11
58	58

HDPE TOILET PARTITION, TYP.



MOISTURE RESISTANT GYP. BOARD - PAINTED PT1
SCHLUTER-QUADEQ FINISHING EDGE AT TOP OF TILE
3/4" PLYWOOD BLOCKING TYP.

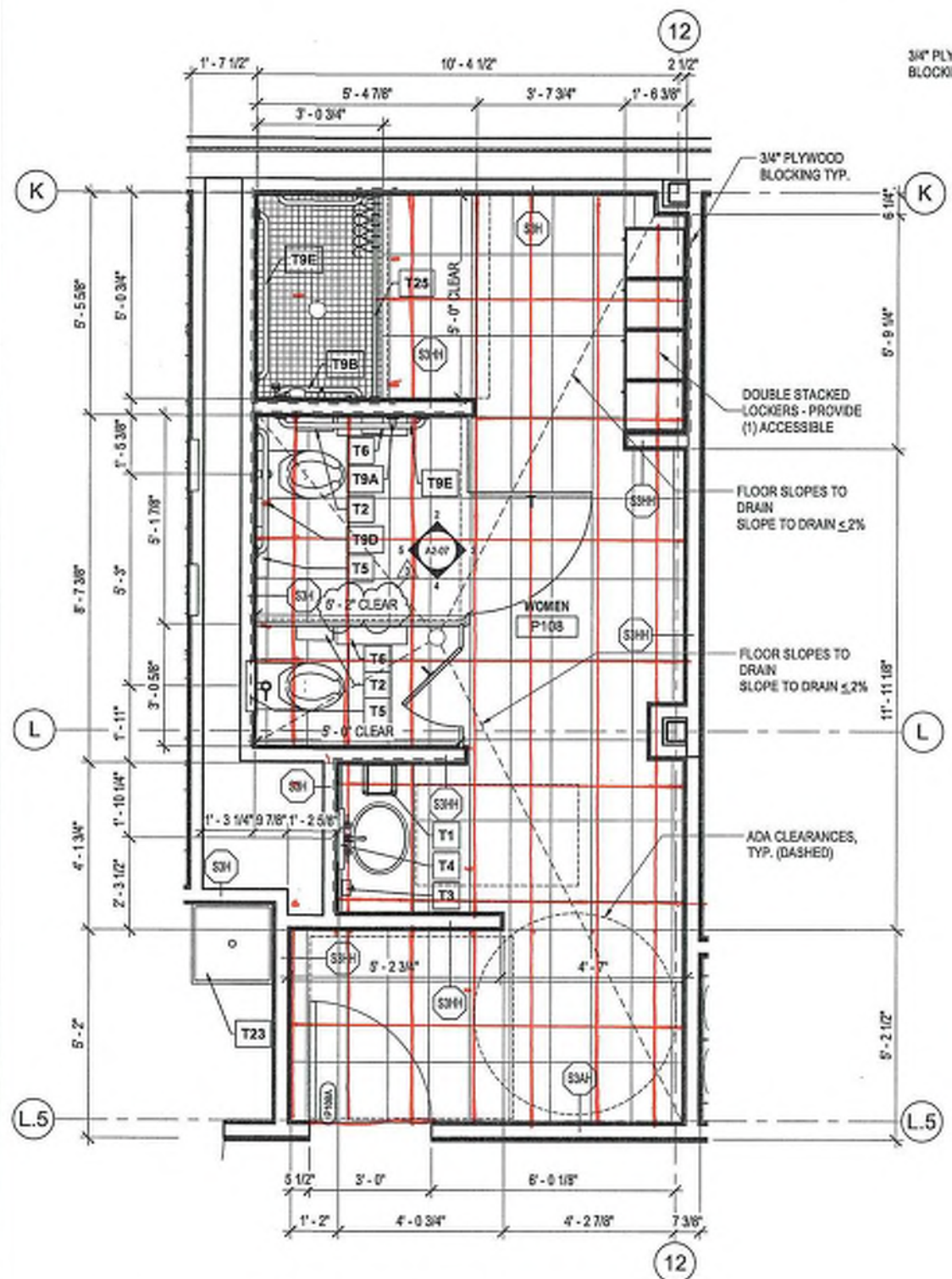
MOISTURE RESISTANT GYP. BOARD - PAINTED PT1
SCHLUTER-QUADEQ FINISHING EDGE AT TOP OF TILE
3/4" PLYWOOD BLOCKING TYP.



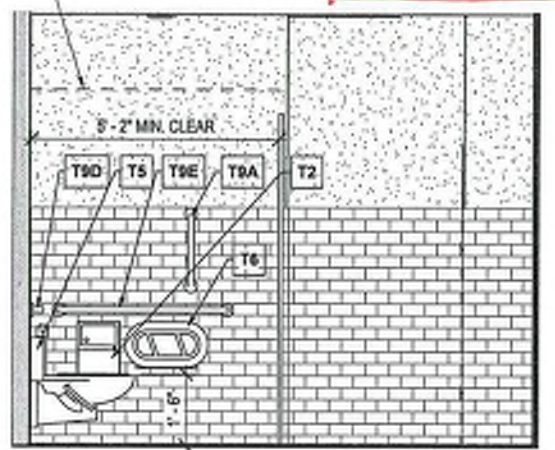
TOILET ACCESSORY LEGEN

MARK	DESCRIPTION	MANUFACTURE
T1	PAPER TOWEL DISPENSER - SURFACE MOUNTED	TORK USA
T2	SANITARY NAPKIN DISPOSAL	BOBRICK
T3	SOAP DISPENSER	DEB STOKO
T4	VINITY MIRROR	BOBRICK
T5	SEAT COVER DISPENSER - RECESSED	BOBRICK
T6	TOILET PAPER DISPENSER - SURFACE MOUNTED	TORK USA
T9	ACCESSIBLE GRAB BAR 12"	BOBRICK
T9A	ACCESSIBLE GRAB BAR 18"	BOBRICK

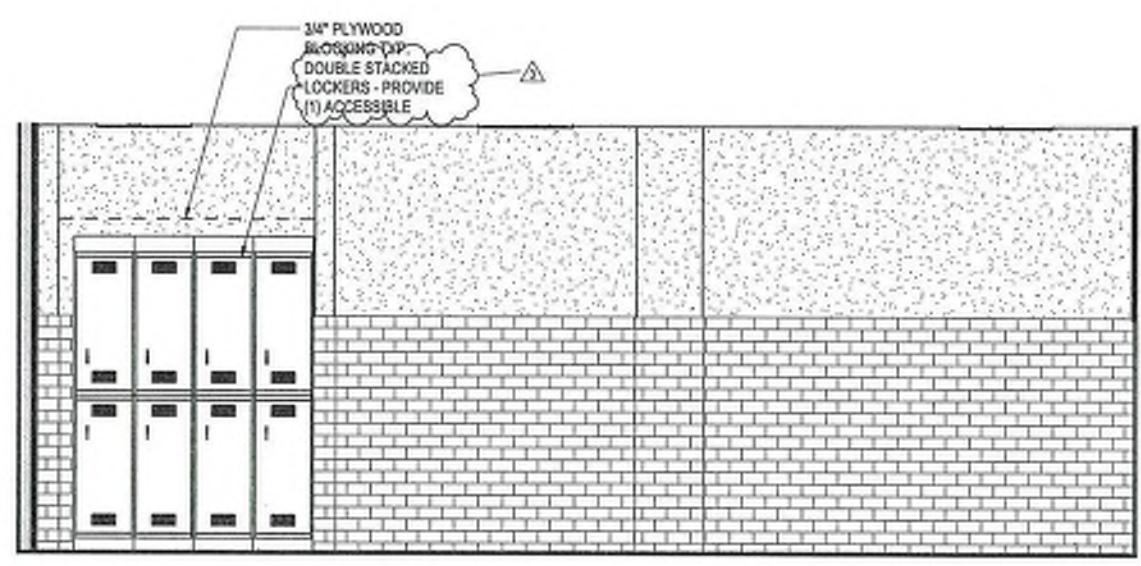
PARK MAINTENANCE
P108



1 ENLARGED FLOOR PLAN - WOMENS
43-07 1/2" = 1'-0"
PLAN NORTH



2 INTERIOR ELEVATION - WOMEN'S RESTROOM
43-07 1/2" = 1'-0"



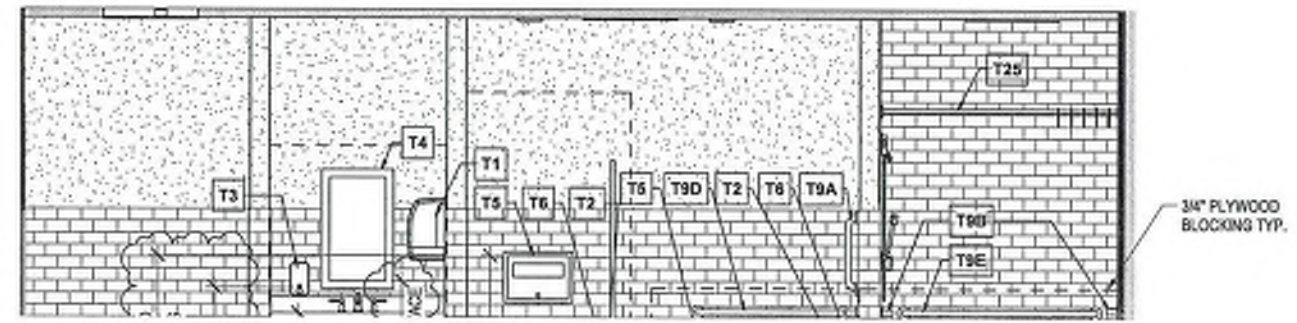
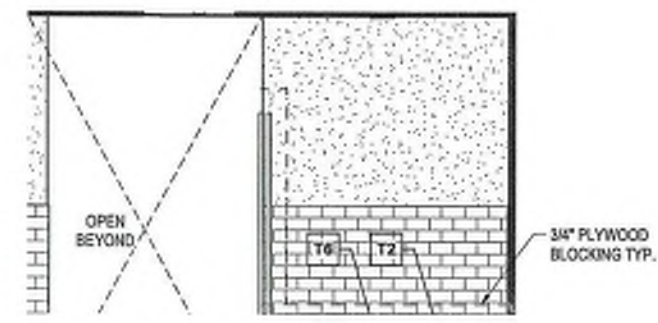
3 INTERIOR ELEVATION - WOMEN'S RESTROOM
43-07 1/2" = 1'-0"

TOILET ACCESSORY LEGEND			
MARK	DESCRIPTION	MANUFACTURER	MODEL
T1	PAPER TOWEL DISPENSER - SURFACE MOUNTED	TORK USA	559202
T2	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
T3	SOAP DISPENSER	DEB STOKO	WRM1LDS
T4	VANITY MIRROR	BOBRICK	B-290
T5	SEAT COVER DISPENSER - RECESSED	BOBRICK	B-221
T6	TOILET PAPER DISPENSER - SURFACE MOUNTED	TORK USA	5555200
T9	ACCESSIBLE GRAB BAR 12"	BOBRICK	B-6806.99
T9A	ACCESSIBLE GRAB BAR 16"	BOBRICK	B-6806.99
T9B	ACCESSIBLE GRAB BAR 24"	BOBRICK	B-6806.99
T9C	ACCESSIBLE GRAB BAR 36"	BOBRICK	B-6806.99
T9D	ACCESSIBLE GRAB BAR 42"	BOBRICK	B-6806.99
T9E	ACCESSIBLE GRAB BAR 48"	BOBRICK	B-6806.99
T16	MOPIBROOM HOLDER	BOBRICK	B-224 X 38
T19	COAT HOOK	BOBRICK	B-6707.99
T23	MOP SINK		
T24	SOAP DISH		
T25	CURTAIN ROD, SHOWER CURTAIN, CURTAL.	BOBRICK	B-6047...

PARTITION TYPE LEG	
BASIC MATERIAL:	
C	CONCRETE
M	MASONRY (CMU)
S	STUD
BASIC SIZE:	
0	7/8" FURRING CHANNEL
1	1 5/8" STUD
2	2 1/2" STUD
3	3 5/8" STUD
4	4" CONCRETE, MASONRY OR STUD
6	6" CONCRETE, MASONRY OR STUD
8	8" CONCRETE, MASONRY OR STUD
APPLIED LAYERS:	
A	1 LAYER 5/8" GYPSUM BOARD
B	2 LAYERS 5/8" GYPSUM BOARD
C	1 LAYERS 1/2" GYPSUM BOARD
D	2 LAYERS 1/2" GYPSUM BOARD
E	RESERVED
F	1 LAYER 5/8" CEMENTITIOUS BACK
G	1 LAYER 1/2" CEMENTITIOUS BACK
H	1 LAYER 5/8" MOISTURE RESISTANT
J	1 LAYER 1/2" MOISTURE RESISTANT
K	SHAFTWALL CONSTRUCTION
PARTITION TYPE SYMBOL	
BASIC MATERIAL	
BASIC SIZE	
APPLIED LAYERS CC	
MODIFYING CONDITI	
S3A.1	1 LETTER = LAYER C
	2 LETTERS = LAYER
MODIFYING CONDITIONS:	
1.	4" SOUND ATTENUATION BLANKETS
2.	USE 5/8" TYPE "X" GYPSUM BOARD

FLOOR PLAN LE	
ROOM REFERENCE	101
DOOR NUMBER (A7-01)	S91
WINDOW NUMBER (A7-01)	11
PARTITION TYPE (A6-06)	S8

MATERIAL ABBREVIATIONS	
ACT	ACOUSTICAL CEILING TILES
EP	EPOXY
FRP	FIBERGLASS REINFORCED PLY
GL	GLASS
LAM	LAMINATE
LVT	LUXURY VINYL TILE
MT	LINER METAL BUILDING PANEL
MR	MIRROR
N/A	NOT APPLICABLE
OTS	OPEN TO STRUCTURE
PLY	PLYWOOD DECK
PT	PANT
RB	RESILIENT BASE
RTR	RESILIENT TREADS / RISERS
SC	SEALED CONCRETE
SSC	STAINED & SEALED CONCRETE
SF	SPECIAL FINISH
SS	SOLID SURFACE
TL	TILE



**ADDITION OF
CURBS FOR
ROOF
HYDRANTS**



Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008
Phone: 405 787 5888 ext202

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #007: CE #008 - Curbs for Roof Hydra

TO:	Flintco	FROM:	Orcutt Mechanical Contractors 6200 NW 39th Expressway Oklahoma City, Oklahoma 73008
PCO NUMBER/REVISION:	007 / 0	CONTRACT:	1 - North Base Fleet Contract Prime Contract
REQUEST RECEIVED FROM:		CREATED BY:	Matthew Weber (Orcutt Mechanical Contractors)
STATUS:	Pending - In Review	CREATED DATE:	9/13/2021
REFERENCE:		PRIME CONTRACT CHANGE ORDER:	None
FIELD CHANGE:	No		
LOCATION:		ACCOUNTING METHOD:	Amount Based
SCHEDULE IMPACT:		PAID IN FULL:	No
EXECUTED:	No	SIGNED CHANGE ORDER RECEIVED DATE:	
		TOTAL AMOUNT:	\$3,960.00

POTENTIAL CHANGE ORDER TITLE: CE #008 - Curbs for Roof Hydra

CHANGE REASON: Client Request

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

CE #008 - Curbs for Roof Hydrants

Fabricate 6 flat roof curbs to hold the roof hydrants. We will assist in mounting these however the persons installing the other curbs will have to cut them in we will spot the curbs. Roofer will have to seal curbs to maintain their warranty. Cost per curb \$600.00 x 6 = \$3,600.00 x 10% OHP = \$3,960.00

ATTACHMENTS:

\$1,980.00 per building (3 on each roof)

Flintco

Orcutt Mechanical Contractors
6200 NW 39th Expressway
Oklahoma City, Oklahoma 73008

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City, Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Roof Hydrant Mounting Detail

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	08/18/2021	STATUS:	Open
REFERENCE:		DUE DATE:	08/27/2021
COST IMPACT:	Yes (Unknown)	SCHEDULE IMPACT:	TBD
LINKED DRAWINGS:		RECEIVED FROM:	Matt Orcutt (Orcutt Mechanical Contractors, Inc.)

COPIES TO:

Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.), Ethan Treisa (Flintco, LLC - OKC)

Question from Zack Blair (Flintco, LLC - OKC) at 03:07 PM on 08/18/2021

Reference attached SK1 which includes the roof hydrant product data and the plumbing fixture schedule from sheet M5-02 P6A Roof Hydrant - The plumbing fixture schedule on sheet M5-02 notes for the roof hydrant to be mounted as indicated on detail, however no detail has been provided. The hydrant that is specified and submitted and approved is made for a roof with a slope less than 2 degrees, which our roof exceeds.
Flintco proposes to make a curb for each hydrant (6 total). The curb would essentially be a false curb that creates a flat surface to mount the hydrant.
1) Please provide a detail if the curb option is acceptable, including finish requirements.
Attachments:
[RFI #054-SK1.pdf](#)

Official Response

Awaiting an Official Response

All Replies:

ACI Response:

Detail was left off sheet in error. Please refer to attached page.

Proposed solution is acceptable. Detail 1 is for the roof hydrant. Detail 2 is for the roof curb, with a hydrant as the piece of equipment to be installed on the curb.

Isaac Marrone 8-19-21

Plumbing Fixture Schedule


MARK	FIXTURE	MANUFACTURER MODEL	SIZE/MOUNT	ROUGH-IN SCHEDULE						ELECTRICAL CONNECTION	FITTINGS & REMARKS
				CW	HW	WASTE	VENT	AIR			
P-1	WATER CLOSET	KOHLER K-4325	WALL HUNG	1"	-	4"	2"	-	-	Y	PROVIDE PROFLO PFTSCOFH2000WH HEAVY DUTY COMMERCIAL SEAT, SLOAN 111 SFSM-1.6 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-1A	WATER CLOSET ADA	KOHLER K-4325	WALL HUNG 18" HIGH	1"	-	4"	2"	-	-	Y	PROVIDE PROFLO PFTSCOFH2000WH HEAVY DUTY COMMERCIAL SEAT, SLOAN 111 SFSM-1.6 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-2	URINAL	KOHLER K-4991-ET	WALL HUNG	3/4"	-	2"	1 1/2"	-	-	Y	PROVIDE SLOAN 186 SFSM-0.25 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-2A	URINAL ADA	KOHLER K-4991-ET	WALL HUNG	3/4"	-	2"	1 1/2"	-	-	Y	PROVIDE SLOAN 186 SFSM-0.25 GPF-HW FLUSH VALVE, EL-451 HARDWIRED TRANSFORMER, AND FLOOR MOUNTED FIXTURE CARRIER.
P-3	LAVATORY ADA	KOHLER K-2005	WALL HUNG	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	KOHLER K-7404-SA FAUCET WITH BLADE HANDLES, SUPPLY STOPS, SUPPLY LINES, K-7129 GRID STRAINER W/ OFFSET P-TRAP, ACORN MODEL S170 ASSE 1070 MIXING VALVE, FLOOR MOUNTED CARRIER, AND TRUEBRO LAV SHIELD. MOUNT AT ADA HEIGHT.
P-3A	LAVATORY ADA	KOHLER K-2196	20"x17" COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	-	-	-	KOHLER K-7404-SA FAUCET WITH BLADE HANDLES, SUPPLY STOPS, SUPPLY LINES, K-7129 GRID STRAINER W/ OFFSET P-TRAP, ACORN MODEL S170 ASSE 1070 MIXING VALVE, AND TRUEBRO LAV SHIELD. MOUNT AT ADA HEIGHT.
P-3B	SHOP WASHFOUNTAIN ADA	BRADLEY TDB3103	FLOOR 36" SEMI-CIRCLE	1/2"	1/2"	2"	1 1/2"	-	-	Y	INFRARED SENSOR ACTIVATED FAUCETS, PROVIDE 110V PLUG IN TRANSFORMER, ALL NECESSARY MOUNTING HARDWARE, ASSE 1070 THERMOSTATIC MIXING VALVE, SUPPLY STOPS, SUPPLY LINES, OFFSET TAILPIECE, & P-TRAP.
P-4B	SERVICE SINK (SQUARE)	FIAT TSB3000	FLOOR 24x24x12	3/4"	3/4"	3"	2"	-	-	-	T&S BRASS MODEL B-0665-BSTP FAUCET, 832-AA HOSE & BRACKET, 889-CC MOP BRACKET, MSG 2424 STAINLESS STEEL WALL GUARD, PROVIDE CHECK VALVES IN HOT AND COLD WATER LINES ABOVE CEILING PRIOR TO FAUCET.
P-5	BH-LEVEL ADA WATER COOLER / BOTTLE FILLER	ELKAY LVRCORNTLSWSK	WALL HUNG	1/2"	-	1 1/2"	1 1/2"	-	-	Y	8.0 GPH @ 50 DEGREE WATER, 120V/1PH, 260 WATTS, 4.0 AMP. VANDAL RESISTANT STAINLESS STEEL CABINET, PROVIDE P-TRAP, SUPPLY STOP, & FLOOR MOUNTED IN WALL CARRIER.
P-6	FREEZE PROOF WALL HYDRANT	WOODFORD B67	WALL	3/4"	-	-	-	-	-	-	MOUNT AT 30" ABOVE GRADE, PROVIDE TWO TEE KEYS TO OWNER. PROVIDE ISOLATION BALL VALVE ON BRANCH LINE.
P-6A	ROOF HYDRANT	WOODFORD SRH-MS	ROOF	3/4"	-	-	-	-	-	-	MOUNT AS INDICATED ON DETAIL. PROVIDE ISOLATION BALL VALVE ON BRANCH LINE. PROVIDE DECK CLAMP.
P-6B	SHOP HYDRANT	WOODFORD 24	WALL	3/4"	-	-	-	-	-	-	MOUNT AT 30" ABOVE FLOOR.
P-7	WASHER BOX	GUY GREY	WALL RECESSED	1/2"	1/2"	2"	1 1/2"	-	-	-	STAINLESS STEEL BOX AND FACEPLATE - 304 S.S., 1/4 TURN BALL VALVE W/ HAMMER ARRESTORS.

The Woodford, ASSE 1057 listed, SRH Roof Hydrant is intended to provide water, in any weather condition, on roofs for window washing, cleaning of condenser coils, cooling towers, green roofs and other types of roof top equipment. The SRH is backflow protected with a field testable ASSE 1052 double check backflow preventer.


The SRH does not require a drain line from the valve body located inside the building.

The SRH-MS with Mounting System allows for installation flexibility. It is not necessary to install hydrant when hydrant support is mounted to the roof. The hydrant support utilizes a 3" diameter opening that allows the hydrant to be installed or easily removed at a later time. All necessary mounting hardware for proper installation on a commercial roof is supplied, including a 2 degree shim for pitch adjustment.

Hydrant Features:

- ASSE 1057 Listed 
- No Drain Line Required - *With the hose removed, a venturi action draws water out of the internal reservoir and discharges out the backflow preventer.*
- Superior reservoir evacuation times without removing the backflow preventer.
- Variable flow plunger for longer life is not easily damaged and assures proper shut-off.
- Large easy to open lift handle.
- Adjustable link for easy adjustment and positive lever lock tension.
- All hydrant repairs can be made from top without removing hydrant.

Specifications:

- Hose Connection Backflow Preventer:
 - Model 50H with 3/4" hose connection
 - ASSE 1052 Listed 
 - Field Testable Dual Check holds against 125 psi backflow pressure
- 3/4" NPT female inlet connection.
- 1 1/2" U.S. made galvanized pipe.
- **Maximum Working Pressure:** 100 p.s.i.
- **Maximum Temperature:** 120° F

SRH WARNING	Supply PSI	Run Time
After each use, run hydrant without a hose to ensure proper evacuation.	60	5 seconds
	25	15 seconds

Mounting System: *(Can be ordered Separately)*

- Cast iron Hydrant Support
- Cast iron Under Deck Flange
 - 4 bolts draw tight against the roof decking and the hydrant support.
 - 3 clamp screws tighten against the hydrant pipe to secure the hydrant's vertical position through the roof.
- Well Seal seals tight between the hydrant support and hydrant pipe.
- EPDM Boot covers well seal and top of hydrant support.
- 2° Shim is supplied, if needed, for installation on pitched roofs.

Manufactured under U.S. patent 7,472,718; 7,730,901 and patents pending.

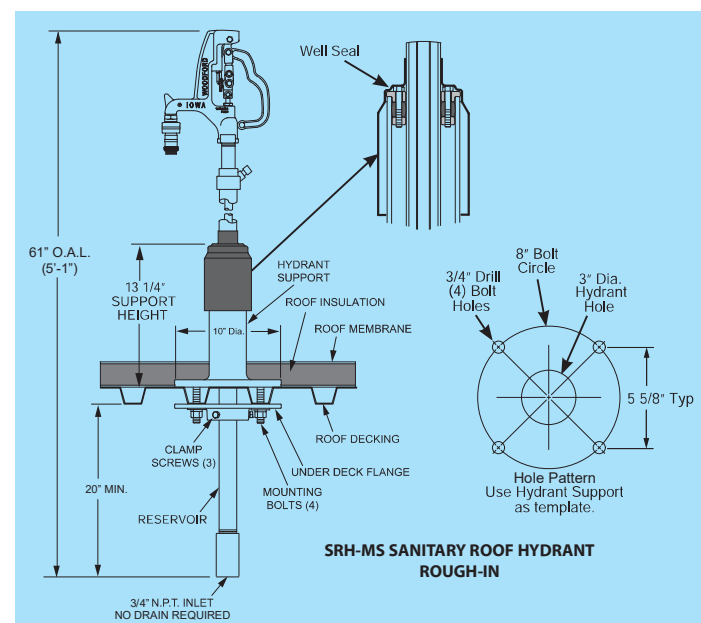
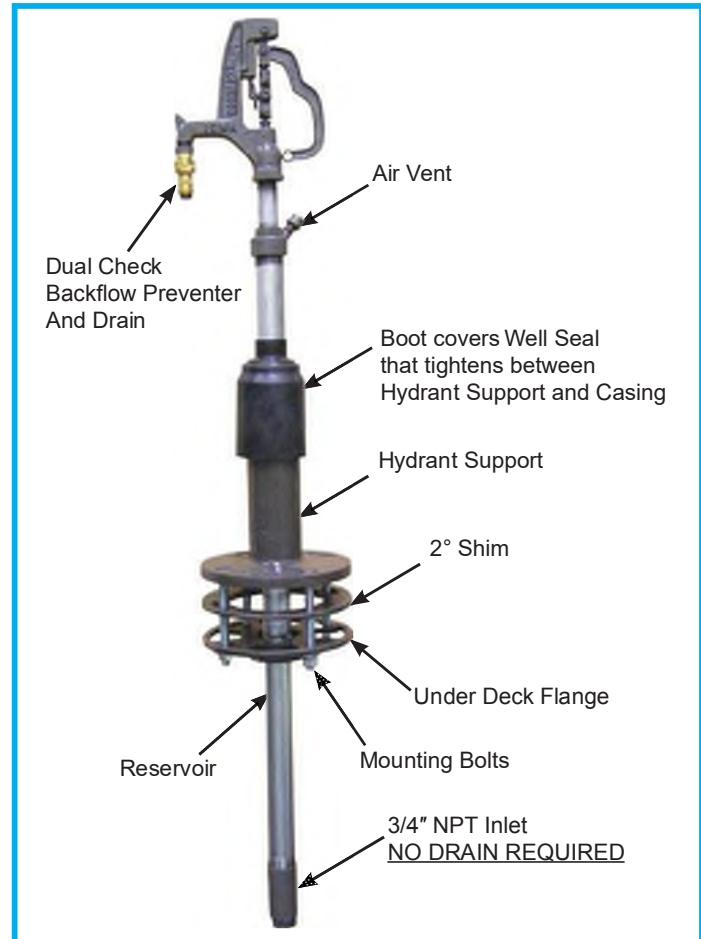
For Installation / Troubleshooting Instructions go to www.woodfordmfg.com or call 1-800-621-6032



Freezeless Sanitary Roof Hydrant No Drain Line Required!

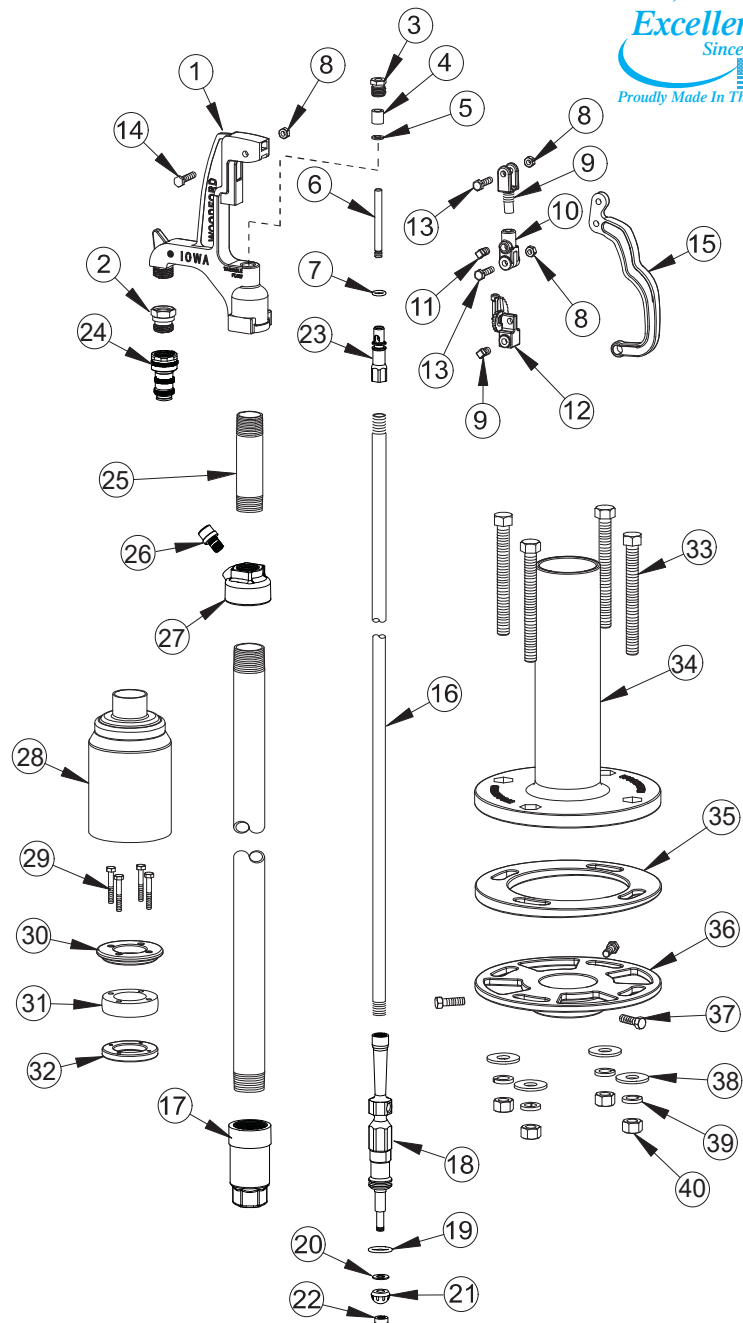
Model SRH-MS

Can be ordered with or without Mounting System (MS).



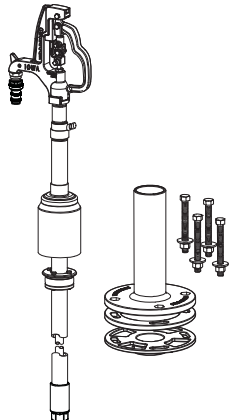
MODEL SRH-MS PARTS LIST

ITEM	PART#	DESCRIPTION
	15126	SRH Head Assembly (Includes Items 1-15, 23 & 24)
1	10632	SRH Head
2	10004	3/4" Brass Hose Nozzle
3	10100	Packing Nut
4	10101	Packing
5	10102	Packing Support Washer
6	15121	Brass Rod Stem
7	10117	O-Ring - 206
8	10206	Hex Nut (3)
9	10614	RH Upper Link
10	15242	RH Lower Link (Includes Item 11)
11	10019	Set Screw (2)
12	15243	RH Cam & Clevis Assembly
13	10020	Link Bolt (2)
14	10021	Lever Bolt
15	10613	RH Lever
16	10024	Operating Pipe
17	15122	Valve Body (3/4" NPT Inlet)
18	15123	Venturi Assembly
19	10118	Valve Body O-Ring
20	50027	Support Washer
21	51013	Ball Valve Rubber
22	50028	Round Brass Nut
23	10116	Sealing Head Coupling
24	50H-BR	50H Backflow Preventer
25	15120	Upper Pipe Assembly
26	15124	SRH Vent Assembly
27	15125	SRH Casing Cover
28	10608	RH Boot, EPDM
29	10625	Bolt, Allen Head 1/4-20 X 1 3/4" (4)
30	10626	Well Seal-1 1/2", Top
31	10119	Well Seal-1 1/2", EPDM
32	10627	Well Seal-1 1/2", Bottom
33	10584	Bolt, Hex Head 5/8-11 X 6" (4)
34	10579	Hydrant Support, Casting
35	10581	2" Shim, Casting
36	10580	Under Deck Flange
37	10607	Screw, Clamp 3/8-16 Hex Head X 1 3/4" (3)
38	10604	Washer, Plain 5/8 (4)
39	10605	Washer, Lock 5/8 (4)
40	10585	Nut, Hex 5/8-11 UNC (4)
	RK-SRH	Repair Kit (Includes items 3-7, 19-22)
	RK-RHL	Repair Kit (Includes items 8-15)



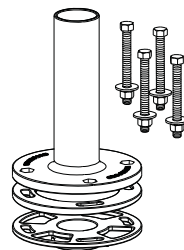
When ordering, specify SRH part number option listed below.

Part# SRH-MS Consists of the complete Roof Hydrant system:
 Qty. 1 SRH Hydrant shipped in 1 carton.
 Qty. 1 RH-MS Mounting System shipped in 1 carton.



Total Shipping Wt.
 2 cartons: 50 lbs

Part# RH-MS Carton contents consists of:
 Mounting System/
 Rough-In Components (Parts 33-40 above)
 • Hydrant Support
 • 2" Shim,
 • Under Deck Flange
 • Mounting Bolts, Nuts, Washers.
 Shipped in 1 Carton.
 Shipping Wt. - 30 lbs

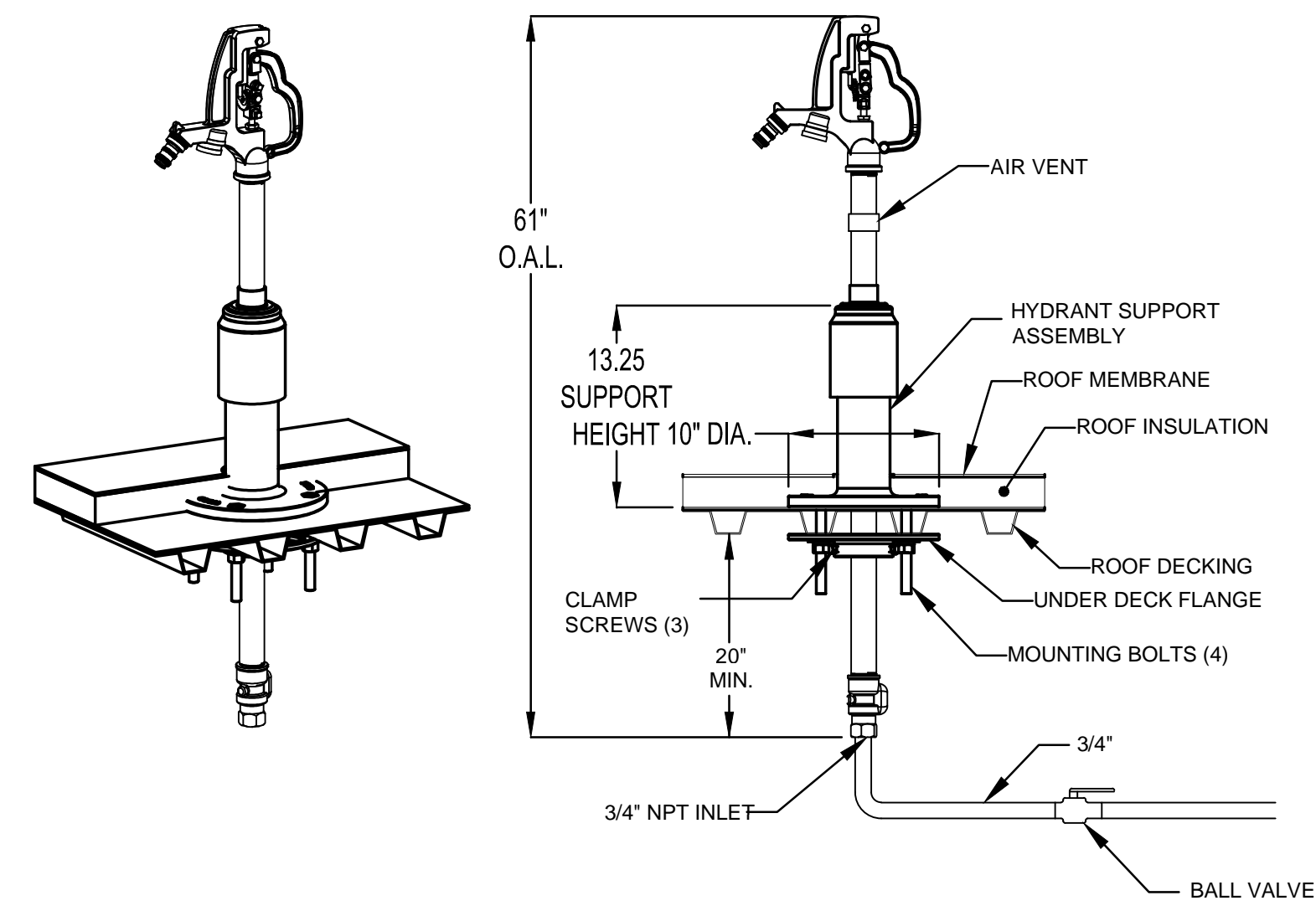


Part# SRH Carton contents consists of:
 • Hydrant Assembly (Parts 1-32 above)
 • Well Seal (Parts 28-32 above)
 • Boot (Part 28 above)
 Shipped in 1 Carton.
 Shipping Wt. - 20 lbs



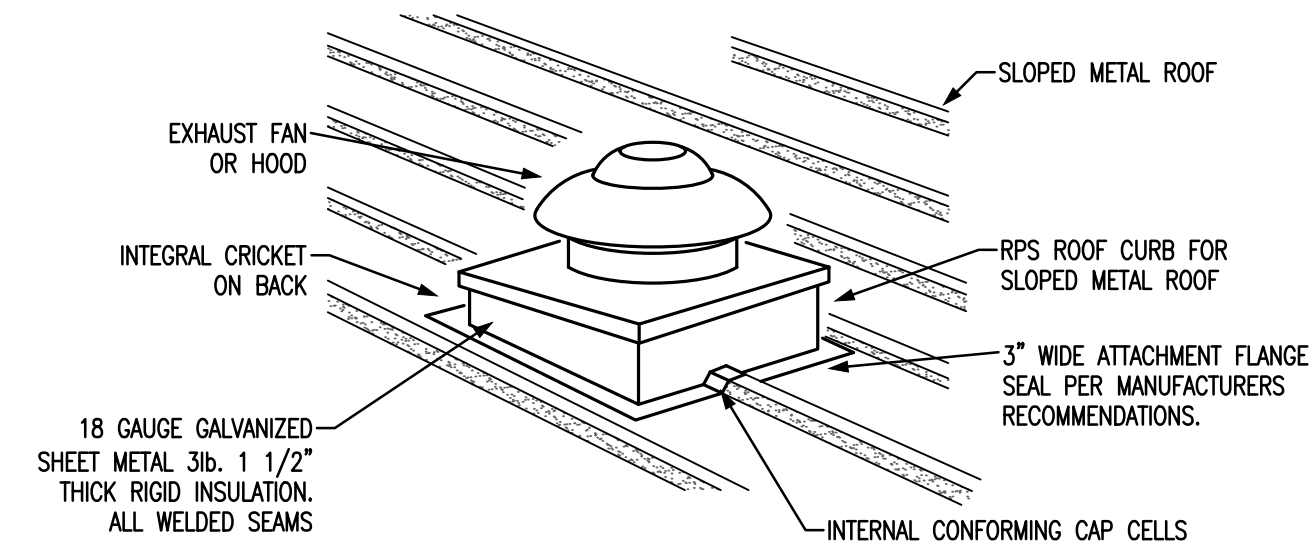
For more information contact...

WOODFORD MANUFACTURING COMPANY



1 ROOF HYDRANT DETAIL

SCALE: NTS
REFER:



2 EQUIPMENT ROOF CURB DETAIL

SCALE: NTS
REFER:

TAC CONDUIT SIZING CHANGE



Orcutt Mechanical Contractors
 6200 NW 39th Expressway
 Oklahoma City, Oklahoma 73008
 Phone: 405 787 5888 ext202

PCO #008

Project: 7080 - North Base Fleet Contract

Prime Contract Potential Change Order #008: CE #009 - cONDENSATE pIPING uP

TO:	Flintco	FROM:	Orcutt Mechanical Contractors 6200 NW 39th Expressway Oklahoma City, Oklahoma 73008
PCO NUMBER/REVISION:	008 / 0	CONTRACT:	1 - North Base Fleet Contract Prime Contract
REQUEST RECEIVED FROM:		CREATED BY:	Matthew Weber (Orcutt Mechanical Contractors)
STATUS:	Pending - In Review	CREATED DATE:	9/14/2021
REFERENCE:		PRIME CONTRACT CHANGE ORDER:	None
FIELD CHANGE:	No		
LOCATION:		ACCOUNTING METHOD:	Amount Based
SCHEDULE IMPACT:		PAID IN FULL:	No
EXECUTED:	No	SIGNED CHANGE ORDER RECEIVED DATE:	
		TOTAL AMOUNT:	\$1,128.00

POTENTIAL CHANGE ORDER TITLE: CE #009 - cONDENSATE pIPING uP

CHANGE REASON: Client Request

POTENTIAL CHANGE ORDER DESCRIPTION: *(The Contract Is Changed As Follows)*

CE #009 - cONDENSATE pIPING uPSIZING
 COST OF MATERIALS INCREASE DUE TO UPSIZING THE CONDENSATE PIPING.

ATTACHMENTS:

60% Fleet - \$676.80
 40% Parks - \$451.20

Flintco

Orcutt Mechanical Contractors
 6200 NW 39th Expressway
 Oklahoma City, Oklahoma 73008

 SIGNATURE DATE SIGNATURE DATE SIGNATURE DATE



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

TAC Unit Condensate Sizing

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Zack Blair Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	08/18/2021	STATUS:	Open
REFERENCE:		DUE DATE:	08/27/2021
COST IMPACT:	TBD	SCHEDULE IMPACT:	TBD
DRAWING NUMBER:	M2-11		
LINKED DRAWINGS:		RECEIVED FROM:	Mike Hamilton (Orcutt Mechanical Contractors, Inc.)

COPIES TO:
Carolyn Bennett (GSB, Inc.), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), Randy Hill (ADG), Cory Rackley (Flintco, LLC - OKC), David Stanton (GSB, Inc.), Ethan Treisa (Flintco, LLC - OKC)

Question from Zack Blair (Flintco, LLC - OKC) at 03:49 PM on 08/18/2021

Reference sheet M2-11, M2-12, and attached product data for the TAC units.
Question: The condensate piping for the TAC units in both Parks and Fleet is shown to be 3/4" PVC to the units, however, the TAC units are equipped with 1" ports for the condensate, and the manufacturer recommends 1" condensate.
1) Please confirm the condensate piping should be up-sized to 1" (1-1/4" OD) to meet manufacturer requirements.

Attachments:
[TAC Unit Cut Sheets.pdf](#)

Official Response

Awaiting an Official Response

All Replies:

ACI Response:

Yes, size condensate line per manufacturers recommended drain size.

Isaac Marrone 8-19-21

**ADDITIONAL
BACKER
BOARD - RFI #61**



WILJO INTERIORS

109 NE 38th Street
Oklahoma City, OK 73105
Phone: 405-792-7979
Fax: 405-792-7980
www.wiljointeriors.com

TO: Phillip Gunderson Flintco	JOB: City of Norman- North Base Complex Park
DATE: 09/21/21	PLAN DATE:
ADDENDUMS:	VOID PRICE AFTER: 30 Days

SCOPE:	AMOUNT
Proposal to install tile backer board where tile is called out on finish schedule (Excludes: Tape and Bed; Paint; Tile; Shower Areas)	
Materials:	\$1,135
Labor:	\$1,545
OH&P:	\$430
Total:	\$3,110
TOTAL:	\$3,110

EXCLUSIONS:

Overtime or nightwork; MEP; sealing of MEP penetrations; finished wood; millwork; provide or install of doors or door hardware; provide door frames; provide or install of any aluminum doors, door frames or window frames; provide or install of RR accessories; install of fire extinguisher cabinets; mullion caps; glazing; tape & bed; paint; EIFS or stucco; texture; flooring; transition strips; wall tile; blown-in insulation; engineering; any work not mentioned in scope above.

Respectfully Submitted,

Frank Snolis
WILJO INTERIORS, INC.



Flintco LLC (40-000)
2302 South Prospect
Oklahoma City , Oklahoma 73129
Phone: (405) 670-6307

Project: 20136 - City of Norman - North Base Complex Phase 1
1310-1380 DA Vinci Street
Norman, Oklahoma 73069

Cementitious Backer Board Clarification

TO:	Michael Segroves GSB, Inc. 3555 NW 58th Street, Suite 700W Oklahoma City, Oklahoma 73112	FROM:	Ethan Treisa Flintco, LLC - OKC 2302 S. Prospect Oklahoma City, Oklahoma 73129
DATE INITIATED:	09/08/2021	STATUS:	Open
REFERENCE:		DUE DATE:	09/17/2021
LINKED DRAWINGS:		RECEIVED FROM:	
COPIES TO: Zack Blair (Flintco, LLC - OKC), Paul D'Andrea (City of Norman), Phillip Gunderson (Flintco, LLC - OKC), Bill Harrell (ADG), David Stanton (GSB, Inc.)			

Question from Ethan Treisa (Flintco, LLC - OKC) at 02:18 PM on 09/08/2021

REF: Product Data
REF: Spec 092900
Page 4 of the referenced spec section notes to install cementitious backer board around the walls of the (3) showers. Please advise if the intent is to provide cementitious backer board at all other locations that are to receive tile.
Attachments:
[usg-durock-cement-board-with-edgeguard-submittal-en-CB399EG.pdf 092900.pdf](#)

Official Response

Awaiting an Official Response

All Replies: [RESPONSE | GSB | 2021 09 16:](#)

CORRECT - PROVIDE CEMENTITIOUS BACKER BOARD AT ALL AREAS THAT ARE TO RECEIVE TILE

MICHAEL SEGROVES, AIA / AICP
PROJECT ARCHITECT | GSB, INC. ARCHITECTS & PLANNERS

SECTION 09 29 00**GYPSUM BOARD****PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Interior gypsum board.
 - 2. Tile backing panels.
 - 3. Texture finishes.
- B. Related Requirements:
 - 1. Section 05 40 00 "Cold-Formed Metal Framing" for metal framing in exterior walls.
 - 2. Section 09 22 16 "Non-Structural Metal Framing" for non-structural steel framing and suspension systems that support gypsum board panels.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For the following products:
 - 1. Textured Finishes: 24 inches square samples for textured finish indicated and on same backing indicated for Work.

1.4 QUALITY ASSURANCE

- A. Mockup: Build mockup of at least 100 sq. ft. in surface area to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Build mockups for texture finish indicated.
 - 2. Apply final painting on surface for review of mockup.
 - 3. Simulate finished lighting conditions for review of mockup.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Comply with ASTM C840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.
- B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.

2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.

2.2 INTERIOR GYPSUM BOARD

- A. Manufacturer:
 1. American Gypsum.
 2. CertainTeed Gypsum
 3. Continental Building Products.
 4. Georgia-Pacific Gypsum.
 5. National Gypsum Company.
 6. USG Corporation.
- B. Gypsum Board, Type X: ASTM C1396/C1396M.
 1. Thickness: 5/8 inch.
 2. Long Edges: Tapered.
- C. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and paper surfaces.
 1. Core: 5/8 inch, Type X.
 2. Long Edges: Tapered.
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.3 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
 1. Manufacturer:
 - a. C-Cure.
 - b. CertainTeed Corporation.
 - c. Custom Building Products.
 - d. FinPan, Inc.
 - e. James Hardie Building Products.
 - f. National Gypsum Company.
 - g. USG Corporation.
 2. Core: 5/8 inch.
 3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.4 TRIM ACCESSORIES

- A. Interior Trim: ASTM C1047.
 1. Material: Galvanized, aluminum-coated steel sheet, rolled zinc, or plastic.
 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. Expansion (control) joint.

2.5 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C475/C475M.

- B. Joint Tape:
 - 1. Interior Gypsum Board: Paper.
 - 2. Tile Backing Panels: As recommended by panel manufacturer.

- C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping or drying-type, all-purpose compound.
 - 3. Fill Coat: For second coat, use setting-type, sandable topping or drying-type, all-purpose compound.
 - 4. Finish Coat: For third coat, use setting-type, sandable topping or drying-type, all-purpose compound.

- D. Joint Compound for Cementitious Tile Backing Panels: As recommended by backer unit manufacturer.

2.6 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

- B. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
 - 1. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 - 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

- C. Acoustical Batt Insulation: ASTM C665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
 - 1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.

- D. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Franklin International.
 - b. Grabber Construction Products.
 - c. Hilti, Inc.
 - d. Pecora Corporation.
 - e. Specified Technologies, Inc.
 - f. Substitutions: Comply with requirements of Section 01 2501.

2.7 TEXTURE FINISHES

- A. Primer: As recommended by textured finish manufacturer.

- B. Non-Aggregate Finish: Premixed, vinyl texture finish for spray application.
 - 1. Manufacturer: National Gypsum Company.
 - 2. Texture: Orange peel.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. (0.7 sq. m) in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch-wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch-wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.3 APPLYING INTERIOR GYPSUM BOARD

- A. **Install interior gypsum board and cementitious backer units in the following locations:**
 - 1. **Mold-Resistant Gypsum Board, Type X: Where indicated on Drawings.**
 - 2. **Cementitious Backer Units: At shower walls.**
 - 3. **Type X: Elsewhere.**

- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels vertically (parallel to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - b. At stairwells and other high walls, install panels horizontally unless otherwise indicated or required by fire-resistance-rated assembly.
 3. On Z-shaped furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.
- C. Multilayer Application:
1. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
 2. Fastening Methods: Fasten base layers and face layers separately to supports with screws.

3.4 APPLYING TILE BACKING PANELS

- A. Comply with manufacturer's installation instructions and ANSI A108.11.
- B. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.5 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- C. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners.
 2. LC-Bead: Use at exposed panel edges.

3.6 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 2. Level 2: Panels that are substrate for tile.
 3. Level 4: At panel surfaces that will be exposed to view (orange peel texture and paint).

- E. Primer and its application to surfaces are specified in Sections 09 91 00.
- F. Tile Backer Units: Finish according to manufacturer's written instructions.

3.7 APPLYING TEXTURE FINISHES

- A. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth.
- B. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture matching approved mockup and free of starved spots or other evidence of thin application or of application patterns.
- C. Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediately remove droppings and overspray to prevent damage according to texture-finish manufacturer's written instructions.

3.8 PROTECTION

- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.
- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION



USG DUROCK® BRAND CEMENT BOARD WITH EDGE GUARD™

Backerboard for tile and exterior finish systems

- Enhanced proprietary edge performance prevents spinout and crumbling
- Easy to cut and fasten
- Water durable and mold resistant
- Warranted for interior and exterior applications
- Exceptional tile bond
- Noncombustible
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material per California Department of Public Health CDPH/EHLB/Standard Method (CA Section 01350) for school classrooms and private office modeling scenarios, and meets USGBC's LEED® v4 emission requirements for flooring applications.

DESCRIPTION

USG Durock® Brand Cement Board with EdgeGuard™ offers architects, builders and tile contractors a strong, water-durable tile base for tub and shower areas. Also an ideal underlayment for tile on floors and countertops in new construction and remodeling. Board is readily applied over wood or steel framing spaced 16 in. (406 mm) o.c. with corrosion-resistant wood screws, steel screws or hot-dipped galvanized roofing nails. After joints are treated, wall or floor tile is applied using latex-fortified mortar or Type I organic adhesive.

USG Durock® Brand Cement Board with EdgeGuard is preferred by many applicators as a base for directly applied finishes, tile, stone and thin brick used in building exteriors.

The 1/2 in. (12.7 mm) and 5/8 in. (15.9 mm) panels are Underwriters Laboratories Inc. (UL) Classified for fire resistance, and may be used in any UL Design where Type DCB panels are listed.

PRODUCT DATA SIZES AND PACKAGING

Size (thickness x width x length) ¹	Units (pcs) ²
1/4 in. x 3 ft. x 5 ft. (6.4 mm x 915 mm x 1525 mm)	60
1/2 in. x 32 in. x 5 ft. (12.7 mm x 813 mm x 1525 mm)	50
1/2 in. x 3 ft. x 5 ft. (12.7 mm x 915 mm x 1525 mm)	50
1/2 in. x 4 ft. x 8 ft. (12.7 mm x 1220 mm x 2440 mm)	40
5/8 in. x 3 ft. x 5 ft. (15.9 mm x 915 mm x 1525 mm)	40
5/8 in. x 4 ft. x 8 ft. (15.9 mm x 1220 mm x 2440 mm)	32

1. Other lengths available. Contact your USG Sales Representative.
2. Shipped in packaging units as shown.

STANDARDS

USG Durock® Brand Cement Board with EdgeGuard exceeds ANSI standards for cementitious backer units (CBU). See ANSI A118.9 for test methods and specifications for CBU and ANSI A108.11 for interior installation of CBU. Exceeds industry standards as an exterior substrate for exterior finishes. Exceeds ASTM C1325 standards for nonasbestos fiber-mat reinforced cementitious backer units.

AVAILABILITY

USG Durock® Brand Cement Board with EdgeGuard is distributed throughout the United States. Contact a USG sales office or sales person for additional information.

COMPOSITION AND MATERIALS

USG Durock® Brand Cement Board with EdgeGuard is formed in a continuous process of aggregated portland cement slurry with polymer-coated, glass-fiber mesh completely encompassing edges, back and front surfaces. The edges are formed smooth with a patented poly-propylene fabric-wrapped edge. The ends are square cut.

DELIVERY AND STORAGE OF MATERIALS

All materials should be delivered and stored in their original unopened package and stored in an enclosed shelter providing protection from damage and exposure to the elements. Even though the stability and durability of USG Durock® Brand Cement Board with EdgeGuard is unaffected by the elements, moisture and temperature variations may have an effect on the bonding effectiveness of basecoats and adhesives. Store all USG Durock® Brand Cement Board with EdgeGuard panels flat.

ENVIRONMENTAL CONDITIONS

In cold weather and during USG Durock® Brand Cement Board with EdgeGuard panel and tile installation, temperatures within the building shall be maintained within the range of 40 to 100°F (5 to 38°C). Adequate ventilation shall be provided to carry off excess moisture.

INTERIOR APPLICATIONS

The building shall be enclosed and the HVAC system operating so that wood framing shall reach the moisture content it will reach in service. Do not install board when the board is wet.

EXTERIOR APPLICATIONS

In exterior applications, USG Durock® Brand Cement Board with EdgeGuard should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel. Finishes, leveling/skim coats and basecoats should not be applied to USG Durock® Brand Cement Board with EdgeGuard panel that is wet or frozen or that contains frost. After application, and for at least 24 hours, finishes, leveling/skim coats and basecoats should be effectively protected from rain and excessive moisture. In cold weather and during finish applications, USG Durock® Brand Cement Board with EdgeGuard panel, skim or basecoat, mortar, finish material and air temperature must be at least 40°F (5°C) and must remain at this temperature or higher for at least 24 hours after application. Hot and dry weather may affect working time of leveling/skim or basecoat and finish materials. Under rapid drying conditions, dampening or light fogging of board, leveling/skim or basecoat surface may be required to improve workability.

PANEL MICROCRACKING

USG Durock® Brand Cement Board with EdgeGuard is formulated to develop fine microcracking (also called multiple cracking) in the panel. The microcracking process helps to evenly relieve the stored strain energy in the product due to handling and installation, external loads and/or panel restrained movement. The presence of microcracks in the panel should not be considered a product defect.

INSTALLATION

- A.** Install cement board with ends and edges closely abutted, but not forced together. Stagger end joints in successive courses.
- B.** For flooring applications over a wood-based substrate, laminate USG Durock® Brand Cement Board with EdgeGuard to subfloor using Type 1 organic adhesive or latex-modified thin-set mortar suitable for bonding cement board. Fasten to subfloor with 1-1/4 in. (32 mm) USG Durock™ Brand Tile Backer Screws for wood framing (or equivalent) or 1-1/2 in. (38 mm) hot-dipped galvanized roofing nails spaced 8 in. (203 mm) o.c. in both directions with perimeter fasteners at least 3/8 in. (10 mm) and less than 5/8 in. (16 mm) from ends and edges. Drive nails and screws so that bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners. Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock™ Brand Tile Backer Tape and level joints.
- C.** For wall application, fasten USG Durock® Brand Cement Board with EdgeGuard panels to framing with specified fasteners. Drive fasteners into field of panels first, working toward ends and edges. Hold panels in firm contact with framing while driving fasteners. Space fasteners maximum 8 in. (203 mm) o.c. for walls, 6 in. (152 mm) o.c. for ceilings, with perimeter fasteners at least 3/8 in. (10 mm) and less than 5/8 in. (16 mm) from ends and edges. Drive nails and screws so bottoms of heads are flush with panel surface to ensure firm panel contact with framing. Do not overdrive fasteners. Approved fasteners include: USG Durock™ Brand Tile Backer Screws for steel framing (or equivalent), 1-1/4 in. (32 mm) and 1-5/8 in. (41 mm) for 14- to 20-gauge steel framing; USG Durock™ Brand Tile Backer Screws for wood framing (or equivalent), 1-1/4 in. (32 mm), 1-5/8 in. (41 mm) and 2-1/4 in. (57 mm) for wood framing. Nails (1-1/2 in. [38 mm] hot-dipped galvanized roofing nails). Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock™ Brand Tile Backer Tape and level joints.

INSTALLATION CONT.

- D.** Cement board should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a dust-collection device. Installer should wear NIOSH/MSHA-approved dust mask.
- E.** If waterproofing is desired, use USG Durock™ Brand Liquid Waterproofing Membrane. See *USG Durock™ Brand Liquid Waterproofing Membrane* submittal sheet (CB817) for product information.

Refer to *USG Durock® Brand Cement Board System Guide* (SA932) for complete installation information, including good design practices. For technical assistance, call USG Technical Service at 800 USG.4YOU (874-4968).

LIMITATIONS

- 1.** Designed for positive or negative uniform loads up to 60 psf. For complete information on the use of USG Durock® Brand panels in exterior systems, consult uniform load table on Page 4 for applicable positive or negative uniform loads on wall systems.
- 2.** Wall applications: Maximum stud spacing: 16 in. (406 mm) o.c. (24 in. [610 mm] o.c. for cavity shaft wall assembly). Framing shall be designed (based on stud properties alone) not to exceed L/360 deflection for tile and thin brick, L/240 for direct-applied exterior finish systems. Maximum fastener spacing: 8 in. (203 mm) o.c. for wood and steel framing; 6 in. (152 mm) o.c. for ceiling applications.
- 3.** Floor applications: Maximum joist spacing 24 in. (610 mm) o.c. The subfloor system should be designed with a minimum deflection limit of L/360 for the span. Some finish materials may require a more rigid subassembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements. The subfloor should be APA Span-Rated Plywood or OSB with an Exposure 1 classification or better with tongue and groove or back blocked at the unsupported edges.
- 4.** In exterior applications, USG Durock® Brand Cement Board with EdgeGuard should not be left uncovered for a period of time exceeding 90 days. Discoloration or staining may occur due to exposure to the elements which will not affect performance of the panel.
- 5.** Brittle coatings, such as epoxy coatings, are not recommended for use with USG Durock® Brand Cement Board with EdgeGuard. USG Durock® Brand Cement Board with EdgeGuard is intended for use with tile, thin brick and exterior stucco coatings only.
- 6.** Maximum dead load for ceiling system is 7.5 psf.
- 7.** Steel framing must be 20-gauge or heavier.
- 8.** Do not use drywall screws or drywall nails. Do not use drywall joint tape.
- 9.** Do not use 1/4 in. (6.4 mm) USG Durock® Brand Cement Board with EdgeGuard for wall or ceiling applications. 1/4 in. (6.4 mm) USG Durock® Cement Board with EdgeGuard is for use in interior applications only.
- 10.** Do not use USG Durock® Brand Cement Board with EdgeGuard with vinyl flooring.
- 11.** USG Durock® Brand Cement Board with EdgeGuard is not designed for use as a structural panel.
- 12.** Maximum installed weight of the finish system should not exceed 15 psf.
- 13.** USG Durock® Brand Cement Board with EdgeGuard panels should not be used in areas where they are exposed to temperatures that exceed 200°F (93°C).
- 14.** In locations close to salt water or other challenging environments, design professionals should consider the use of stainless steel fasteners.
- 15.** Do not use lightweight setting-type joint compounds or ready-mix joint compounds directly over USG Durock® Brand Cement Board with EdgeGuard.

TECHNICAL DATA

Property	Unit of Measure	ASTM Test Method	5/8 in. (15.9 mm) USG Durock® Brand Cement Board with EdgeGuard™	1/2 in. (12.7 mm) USG Durock® Brand Cement Board with EdgeGuard™	1/4 in. (6.4 mm) USG Durock® Brand Cement Board with EdgeGuard™ Underlayment
Flexural strength	psi (MPa)	C947	> 480	> 750	> 1000 (6.9)
Indentation strength	psi (MPa)	D2394	> 1250	> 1250	> 1250 (8.6)
Shear bond strength	psi	ANSI A118.4	> 50	> 50	> 50
Nail-pull resistance	lb. (0.375 in. [10 mm] head diameter, wet or dry)	C473	> 90	> 90	—
Weight	psf (kg/m²)	C473	3	2.4	< 1.9 (1.9)
Freeze/thaw resistance	procedure B, number of cycles with no deterioration	C666	100	100	100
Mold resistance	—	G21 D3273	Rating 0, No growth 10/10	Rating 0, No growth 10/10	Rating 0, No growth 10/10
Noncombustibility	Pass/Fail	E136	Pass	Pass	Pass
Surface-burning characteristics	flame/smoke	E84	0/0	0/0	0/0
Thermal	“R”/k value	C518	.49/1.27	0.39/1.27	—
Standard method for evaluating ceramic floor tile installation systems	Passes cycles 1-6	C627	Light commercial	Light commercial	Light commercial
Minimum bending radius	ft. (requires special framing details available upon request)	—	6	6	—

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

DANGER

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state, and federal regulations. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

UNIFORM LOAD—1/2 IN. (12.7 MM) USG DUROCK® BRAND CEMENT BOARD WITH EDGEGUARD™

Stud Spacing	Fastener Spacing	Design Wind Load (1/240)	Design Wind Load (1/360)
12 in. (305 mm) o.c.	8 in. (203 mm) o.c.	35 psf	35 psf
	6 in. (152 mm) o.c.	44 psf	44 psf
16 in. (406 mm) o.c.	8 in. (203 mm) o.c.	27 psf	21 psf
	6 in. (152 mm) o.c.	31 psf	21 psf
24 in. (610 mm) o.c. (for shaft wall assemblies only)	8 in. (203 mm) o.c.	12 psf	8 psf
	6 in. (152 mm) o.c.	12 psf	8 psf

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

800 USG.4YOU
800 (874-4968)
usg.com

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

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DELAY DAYS

Proof Rolling Delay Days

Phillip Gunderson

From: Paul Dandrea <Paul.Dandrea@NormanOK.gov>
Sent: Monday, September 13, 2021 4:36 PM
To: Zack Blair
Cc: Cory Rackley; Phillip Gunderson; Michael Segroves; David Stanton; Randy Hill; wharrell@adgokc.com
Subject: Re: EXTERNAL EMAIL : Norman North Base - Parking Lot Subgrade Delay

I am fine with providing the 6 additional days for waiting for the subgrade to dry.

Sent from my iPhone

On Sep 13, 2021, at 3:33 PM, Zack Blair <zblair@flintco.com> wrote:

Paul,

Per previous correspondence, the City only felt comfortable with providing additional delay days due to the parking lot subgrade issue. Flintco paid for the remediation work to the soil, but we do also feel that we should be provided with delay days due to this being an unforeseen issue. The parking lot has not seen any standing water since early April, when the drainage ditch was installed. With that said, our second failed proof roll was on 8/13/21 and the final proof roll was passed on 8/20/21, therefore we are requesting (6) additional working days due to the delay.

Feel free to give me a call if you have any questions.

Thanks,

Zack Blair
Superintendent
Flintco, LLC
(405) 835-6369 (d) // (405) 605-9303 (c)
www.flintco.com
<image001.png>

PEMB Metal Roofing Delays for Fleet

NUCOR

BUILDING SYSTEMS-TERRELL

600 APACHE TRAIL
TERRELL, TEXAS 75160
<http://www.nucorbuildingsystems.com>

PH: 972/524-5407
FAX: 972/524-5417

August 6, 2021

Mr. Aaron Hunter
Elite Star Construction
210 W. Chickasha Ave
Chickasha OK, 73018

REFERENCE: North Base Complex – Fleet Maintenance (T20E0456B)
North Base Complex – Parks Maintenance (T20E0457B)

RE: VR16II Roof Panel (22GA-Pearl Gray) – Panel Delay

Dear Aaron,

I'm sending this letter as a follow up to help layout the timeline of the material delays that occurred for the roof panel on both of the North Base Projects. The main cause for the material delay was the special 22ga substrate that was needed on the project. Our suppliers as well as most other vendors are under some unprecedented times that date back to late 2020 and has continued well into 2021.

- The roof panel on both projects were originally to deliver on 5/14/21.
- Our purchasing team was told on 4/26/21 from Ternium (Coater) that they had not received the special 22ga substrate from the Mill and that there would be a delay in delivery of the coil.
- We did not receive the first delivery of coil till Wednesday 6/9/21.
- We immediately ran and delivered the Fleet Bldg and a partial for Parks Maintenance on 6/10/21 and 6/11/21.
- Part of the substrate that had been delivered to Ternium (Coater) was rejected for edge wave, so the Mill had to go back and reproduce the remaining portion that was needed on the Parks Maintenance.
- The last shipment of roof panel for Parks Maintenance was delivered to the site on 7/17/21.

Very truly yours,



Brian Wood
Senior Project Coordinator

600 Apache Trail • Terrell, TX 75160
Phone: 972.524.5407 Ext. 2407



"Excellence from the ground up"



Norman North Base - Phase 1: Weather Day Log

Month and Year	Weather Days Incurred	Actual Weather Days Claimed
November-20	3	3
December-20	10	10
January-21	7	7
February-21	12	12
March-21	2	2
April-21	3	3
May-21	2	2
June-21	2	2
July-21	2	2
August-21	3	3
September-21	0 (as of 9/22)	0 (as of 9/22)
October-21		
November-21		
Total (Days)	46	46

	<u>Date</u>	<u>Days</u>	<u>Reason</u>
1	23-Nov-20	1	Wet & Muddy Conditions
2	24-Nov-20	1	Rain, Wet & Muddy Conditions
3	25-Nov-20	1	Wet & Muddy Conditions
4	3-Dec-20	1	Rain, Wet & Muddy Conditions
5	4-Dec-20	1	Wet & Muddy Conditions
6	14-Dec-20	1	Snow, Ice, Wet & Muddy Conditions
7	15-Dec-20	1	Snow, Ice, Wet & Muddy Conditions
8	16-Dec-20	1	Snow, Ice, Wet & Muddy Conditions
9	17-Dec-20	1	Wet & Muddy Conditions
10	18-Dec-20	1	Wet & Muddy Conditions
11	29-Dec-20	1	Rain, Wet & Muddy Conditions
12	30-Dec-20	1	Rain/Snow, Ice, Wet & Muddy Conditions
13	31-Dec-20	1	Rain/Snow, Ice, Wet & Muddy Conditions
14	4-Jan-21	1	Wet & Muddy Conditions
15	5-Jan-21	1	Wet & Muddy Conditions
16	6-Jan-21	1	Wet & Muddy Conditions
17	7-Jan-21	1	Wet & Muddy Conditions
18	8-Jan-21	1	Wet & Muddy Conditions
19	25-Jan-21	1	Rain, Wet & Muddy Conditions
20	26-Jan-21	1	Wet & Muddy Conditions
21	8-Feb	1	Snow, Ice, Wet & Muddy Conditions
22	9-Feb	1	Snow, Ice, Wet & Muddy Conditions
23	10-Feb	1	Snow, Ice, Wet & Muddy Conditions
24	11-Feb	1	Snow, Ice, Wet & Muddy Conditions
25	12-Feb	1	Snow, Ice, Wet & Muddy Conditions
26	15-Feb	1	Snow, Ice, Wet & Muddy Conditions
27	16-Feb	1	Snow, Ice, Wet & Muddy Conditions
28	17-Feb	1	Snow, Ice, Wet & Muddy Conditions
29	18-Feb	1	Snow, Ice, Wet & Muddy Conditions

30	19-Feb	1	Snow, Ice, Wet & Muddy Conditions
31	22-Feb	1	Wet & Muddy Conditions
32	23-Feb	1	Wet & Muddy Conditions
33	15-Mar	1	Rain, Wet & Muddy Conditions
34	22-Mar	1	Rain, Wet & Muddy Conditions
35	16-Apr	1	Rain, Wet & Muddy Conditions
36	28-Apr	1	Rain, Wet & Muddy Conditions
37	29-Apr	1	Rain, Wet & Muddy Conditions
38	5-May	1	Rain, Wet & Muddy Conditions
39	24-May	1	Rain, Wet & Muddy Conditions
40	21-Jun	1	Rain, Wet & Muddy Conditions
41	29-Jun	1	Rain, Wet & Muddy Conditions
42	2-Jul	1	Rain, Wet & Muddy Conditions
43	6-Jul	1	Rain, Wet & Muddy Conditions
44	18-Aug	1	Rain, Wet & Muddy Conditions
45	19-Aug	1	Rain, Wet & Muddy Conditions
46	20-Aug	1	Rain, Wet & Muddy Conditions