



LAKE HAVASU CITY, ARIZONA
ADMINISTRATIVE SERVICES DEPARTMENT
◆ PROCUREMENT ◆

INVITATION TO BID
NEW LABORATORY BUILDING
PROJECT NO. B25-PW-107032-500638
ADDENDUM NO. 3
MAY 22, 2025

Attention is called to the following changes, additions, clarifications and/or deletions to the original solicitation and they shall be considered in preparing submissions:

There is no change in the opening date. **Submissions are due no later than 3:00 p.m., Arizona Time, JUNE 4, 2025**, at the City Clerk's Office, 2330 McCulloch Blvd. N., Lake Havasu City, AZ 86403 or electronically via DemandStar.

ITEM ONE(1): QUESTIONS AND ANSWERS

The following questions have been received to date and answers are provided herein:

Question 1: The ceiling assembly calls for R-5 closed cell. For proper adhesion, requirement and installation application, we would need to use 1 inch minimum which is R-7. Please advise?

Answer 1: R-5 is the code minimum address in table 1202.3 of the 2018 IBC for climate zone 3. 1 Inch R-7 is acceptable.

Question 2: The plans call for R-33 batts for the ceiling assembly. We will be quoting R-38. Is this acceptable?

Answer 2: R-38 (total) is the code minimum for attics in climate zone 3. This is why R-33 batts are indicated on the Roof/Ceiling assembly details, sheet G006. R-33 batts + R-5 spray foam leads to a R-38 total. However, R-38 batts are acceptable.

Question 3: Where plans call for 2x6 metal stud walls, is it acceptable to use R-19 to fill any cavities?

Answer 3: Yes, R-19 is acceptable.

Question 4: Where the plans call for 2x8 metal stud walls, is it acceptable to use the double application of R-19 + R-13 to fill those cavities?

Answer 4: Yes, using both R-19 and R-13 to fill the cavities of those walls is acceptable.

ADDENDUM 3 – B25-PW-107032-500638 NEW LABORATORY BUILDING

Question 5: The walls adjacent to the mechanical room are not labeled. Are these 2x4 metal stud walls receiving insulation?

Answer 5: Yes. The walls between OFFICE 113 / MECHANICAL 112 and MECHANICAL 112 / CONFERENCE 111 are wall type C2.

ITEM TWO (2): REVISED ARCHITECTURAL PLANS

Revised architectural plans have been provided (Attachment A).

ITEM THREE (3): REVISED BID SCHEDULE

Due to the addition of a new line item, pages 2 and 3 of Section 00310 of the solicitation package are being replaced (see Attachment B).

ITEM FOUR (4): REVISED SECTION 01210

Due to the addition of a line item to the Bid Schedule, Section 01210 of the solicitation package has been replaced in its entirety (see Attachment C).

Andrew Klos, CPPB
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LAKE HAVASU CITY WATER QUALITY LABORATORY
340 CYPRESS DRIVE
LAKE HAVASU CITY, AZ, 86403

PROJECT NO. 20-077
DATE: 2 APRIL 2025

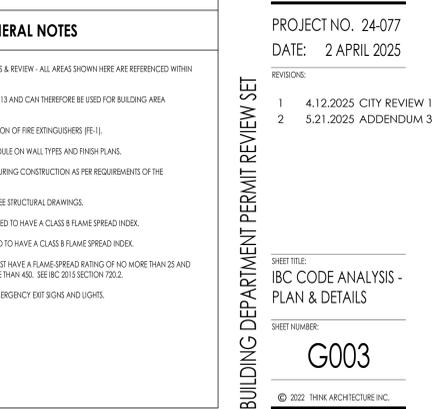
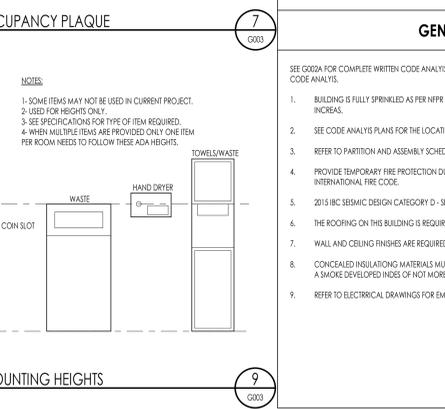
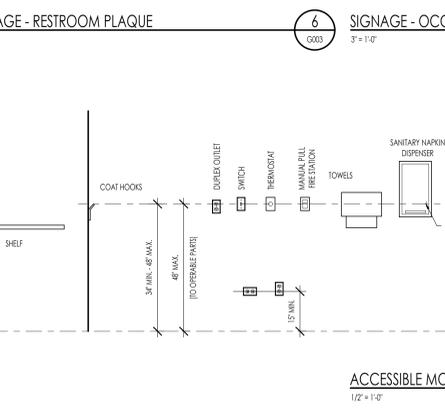
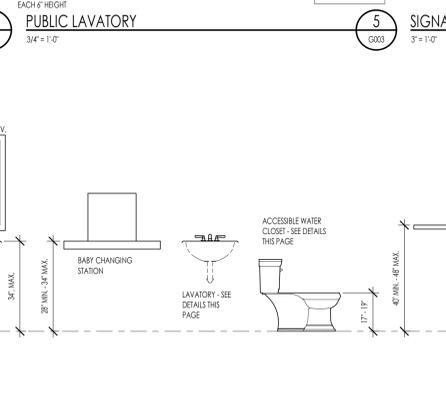
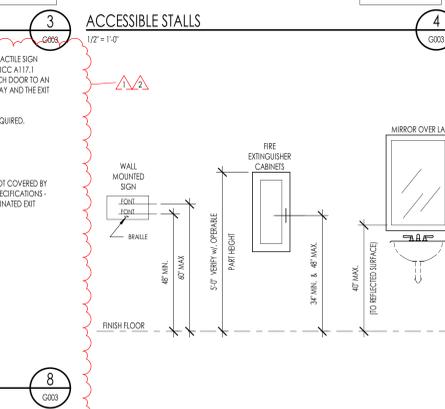
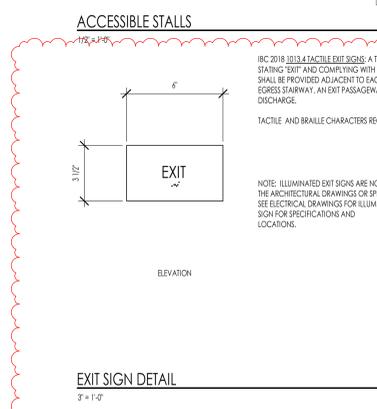
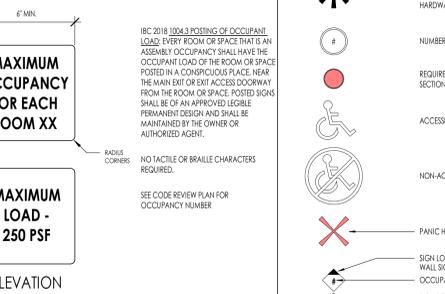
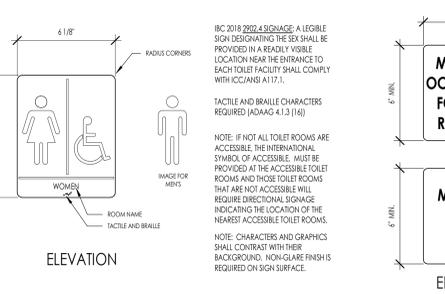
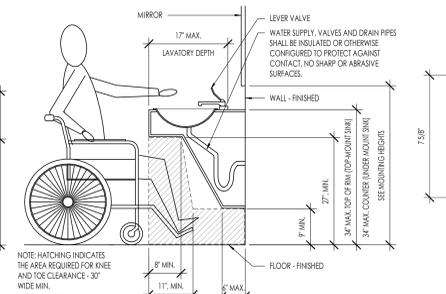
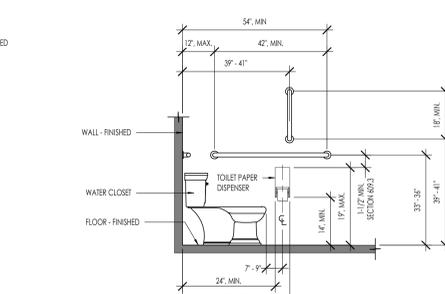
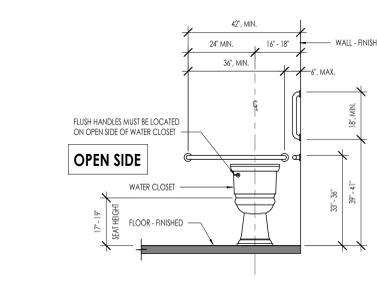
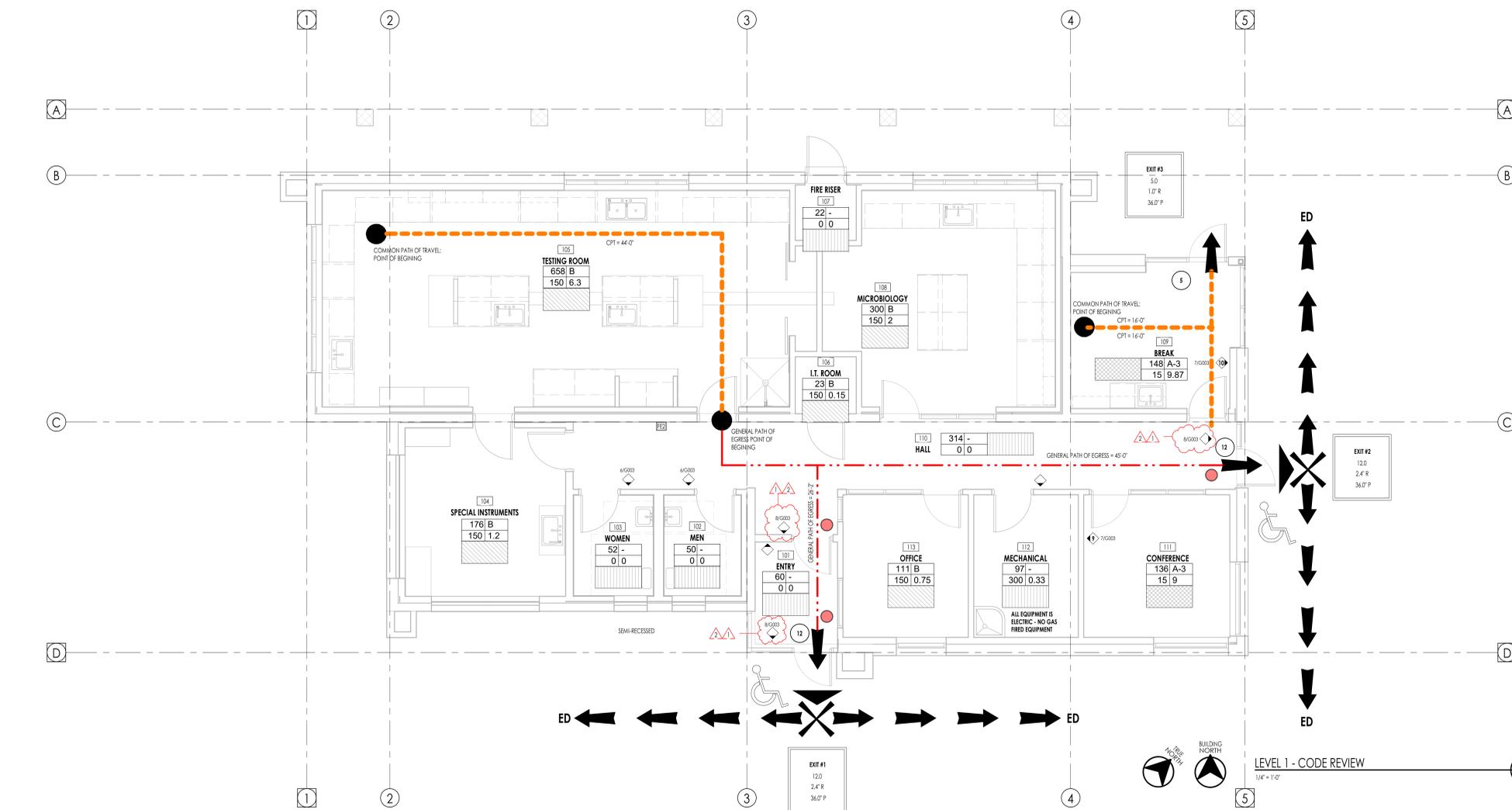
BUILDING DEPARTMENT PERMIT REVIEW SET

REVISIONS:
1 4.12.2025 CITY REVIEW 1
2 5.21.2025 ADDENDUM 3

SHEET TITLE:
IBC CODE ANALYSIS -
PLAN & DETAILS

SHEET NUMBER:
G003

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CODE ANALYSIS LEGEND	
	B - OCCUPANCY
	A - OCCUPANCY
	NOT A SPACE CLASSIFIED WITH AN OCCUPANCY
	MAXIMUM OCCUPANT LOAD THRU EXIT
	MINIMUM REQUIRED STAIR WIDTH
	STAIR WIDTH PROVIDED
	(LOCATION SHOWN BY LARGE ARROW)
	MAXIMUM OCCUPANT LOAD THRU EXIT
	MINIMUM REQUIRED EXIT WIDTH
	EXIT WIDTH PROVIDED
	1 HOUR FIRE BARRIER OR PARTITION - SEE WALL TYPES
	2 HOUR FIRE BARRIER OR PARTITION - SEE WALL TYPES
	3 HOUR FIRE BARRIER OR PARTITION - SEE WALL TYPES
	COMMON PATH OF TRAVEL AS PER IBC 1006.2.1
	3 HOUR FIRE BARRIER OR PARTITION - SEE WALL TYPES
	ROOM/AREA SQUARE FOOTAGE
	OCCUPANCY GROUP
	OCCUPANT LOAD
	OCCUPANCY LOAD FACTOR (L=NET SF, G=GROSS SF)
	ROOM/AREA REQUIRED EXIT
	BUILDING REQUIRED EXIT
	GENERAL PATH OF EGRESS
	EXIT DISCHARGE TO PUBLIC WAY - IBC 1027
	CLASS 1 STAND-PIPE (RIS.3.1 - EXCEPTION #1)
	FIRE DEPARTMENT CONNECTION (FDC)
	KNOX BOX
	ONE-HOUR FIRE RATED RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - 2A, 10BC
	NON-RATED SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - 2A, 10BC
	ROOMS WITH AN OCCUPANT LOAD OF 50 OR MORE IN GROUP A OCCUPANCY SHALL HAVE TWO EXITS AND ARE REQUIRED TO HAVE PANIC HARDWARE (IBC 2015 SECTION 1008.1.10)
	NUMBER OF OCCUPANTS IN EXIT ROUTE
	REQUIRED EXIT LIGHT LOCATIONS - SEE IBC 2015 SECTION 1011.1 (SHOW ON ELECTRICAL DRAWINGS)
	ACCESSIBLE ELEMENT
	NON-ACCESSIBLE ELEMENT
	PANIC HARDWARE REQUIRED
	SIGN LOCATION
	WALL SIGN
	OCCUPANCY LOAD #
	SIGN DETAIL

GENERAL NOTES

SEE G002A FOR COMPLETE WRITTEN CODE ANALYSIS & REVIEW - ALL AREAS SHOWN HERE ARE REFERENCED WITHIN CODE ANALYSIS.

- BUILDING IS FULLY SPRINKLED AS PER NFPA 13 AND CAN THEREFORE BE USED FOR BUILDING AREA INCREASE.
- SEE CODE ANALYSIS PLANS FOR THE LOCATION OF FIRE EXTINGUISHERS (FE-1).
- REFER TO PARTITION AND ASSEMBLY SCHEDULE ON WALL TYPES AND FINISH PLANS.
- PROVIDE TEMPORARY FIRE PROTECTION DURING CONSTRUCTION AS PER REQUIREMENTS OF THE INTERNATIONAL FIRE CODE.
- 2015 IBC SEISMIC DESIGN CATEGORY D - SEE STRUCTURAL DRAWINGS.
- THE ROOFING ON THIS BUILDING IS REQUIRED TO HAVE A CLASS B FLAME SPREAD INDEX.
- WALL AND CEILING FINISHES ARE REQUIRED TO HAVE A CLASS B FLAME SPREAD INDEX.
- CONCEALED INSULATING MATERIALS MUST HAVE A FLAME SPREAD RATING OF NO MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450. SEE IBC 2015 SECTION 720.2.
- REFER TO ELECTRICAL DRAWINGS FOR EMERGENCY EXIT SIGNS AND LIGHTS.

NOTES

- SOME ITEMS MAY NOT BE USED IN CURRENT PROJECT.
- USED FOR HEIGHTS ONLY.
- SEE SPECIFICATIONS FOR TYPE OF ITEM REQUIRED.
- WHEN MULTIPLE ITEMS ARE PROVIDED ONLY ONE ITEM PER ROOM NEEDS TO FOLLOW THESE ADA HEIGHTS.

Plot Date: 5/21/2025 1:58:07 PM

DOOR SCHEDULE

MARK	DOOR			MATERIAL	TYPE	FINISH	FRAME			FIRE RATING	HARDWARE	HEAD	JAMB	SILL	REMARKS
	WIDTH	HEIGHT	THICKNESS				MATERIAL	TYPE	FINISH						
101A	3'-0"	7'-2"	1-3/4"	ALUM	D1	FACTORY	ALUM	W1	FACTORY	NON-RATED	01				ELECTRONIC ACCESS
101B	3'-0"	7'-2"	1-3/4"	ALUM	D1	FACTORY	ALUM	F4	FACTORY	NON-RATED	01				ELECTRONIC ACCESS
102A	3'-0"	7'-0"	1-3/4"	WOOD	D2	STAIN	H.M.	F2	PAINT	NON-RATED	04				LEVER HANDLE
103A	3'-0"	7'-0"	1-3/4"	WOOD	D2	STAIN	H.M.	F2	PAINT	NON-RATED	04				LEVER HANDLE
104A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	F2	PAINT	NON-RATED	07				LEVER HANDLE
105A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	F1	PAINT	NON-RATED	07				LEVER HANDLE
105B	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	F1	PAINT	NON-RATED	08				LEVER HANDLE
105C	6'-0"	7'-0"	1-3/4"	WOOD	D3	STAIN	G.P. BD.	F3	PAINT	NON-RATED	09				LEVER HANDLE
106A	3'-0"	7'-0"	1-3/4"	WOOD	D4	STAIN	H.M.	F1	PAINT	NON-RATED	05				ELECTRONIC ACCESS, LEVER HANDLE
107A	3'-0"	7'-0"	1-3/4"	H.M.	D6	PAINT	H.M.	F1	PAINT	NON-RATED	03				ELECTRONIC ACCESS, LEVER HANDLE
108A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	W13	FACTORY	NON-RATED	07				LEVER HANDLE
109A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	F1	PAINT	NON-RATED	08				LEVER HANDLE
109B	3'-0"	7'-0"	1-3/4"	ALUM	D1	FACTORY	ALUM	W8	FACTORY	NON-RATED	02				ELECTRONIC ACCESS
110A	3'-0"	7'-2"	1-3/4"	ALUM	D1	FACTORY	ALUM	W10	FACTORY	NON-RATED	01				ELECTRONIC ACCESS
111A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	W13	FACTORY	NON-RATED	07				LEVER HANDLE
112A	3'-0"	7'-0"	1-3/4"	WOOD	D2	STAIN	H.M.	F2	PAINT	NON-RATED	06				LEVER HANDLE
113A	3'-0"	7'-0"	1-3/4"	WOOD	D5	STAIN	H.M.	W13	FACTORY	NON-RATED	07				LEVER HANDLE

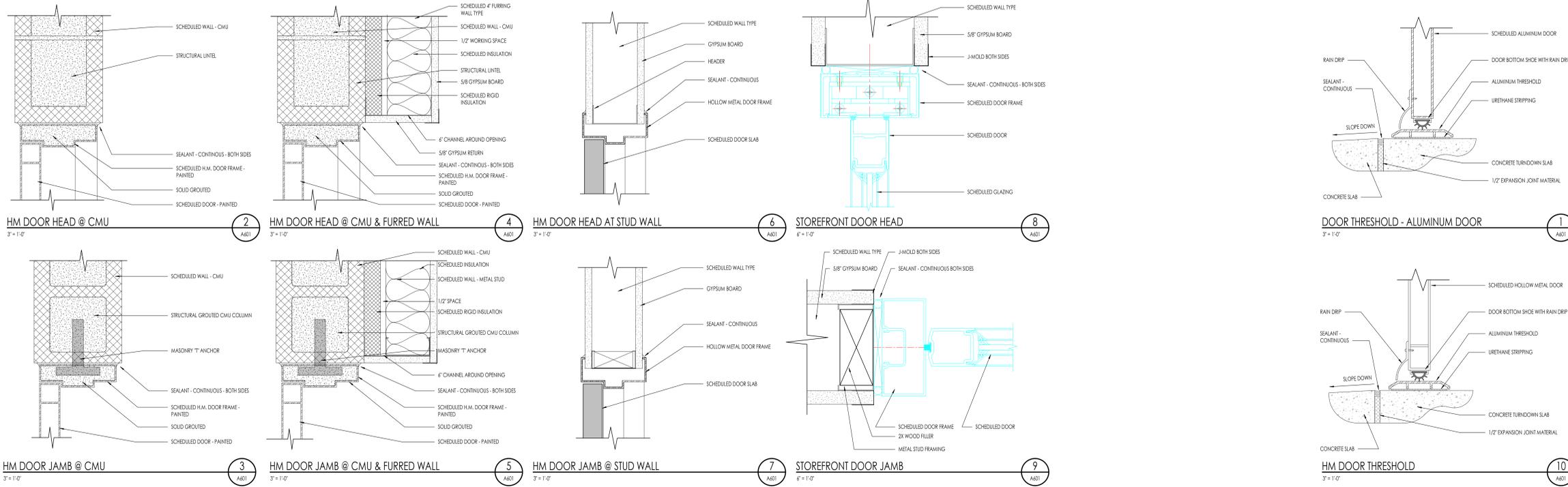
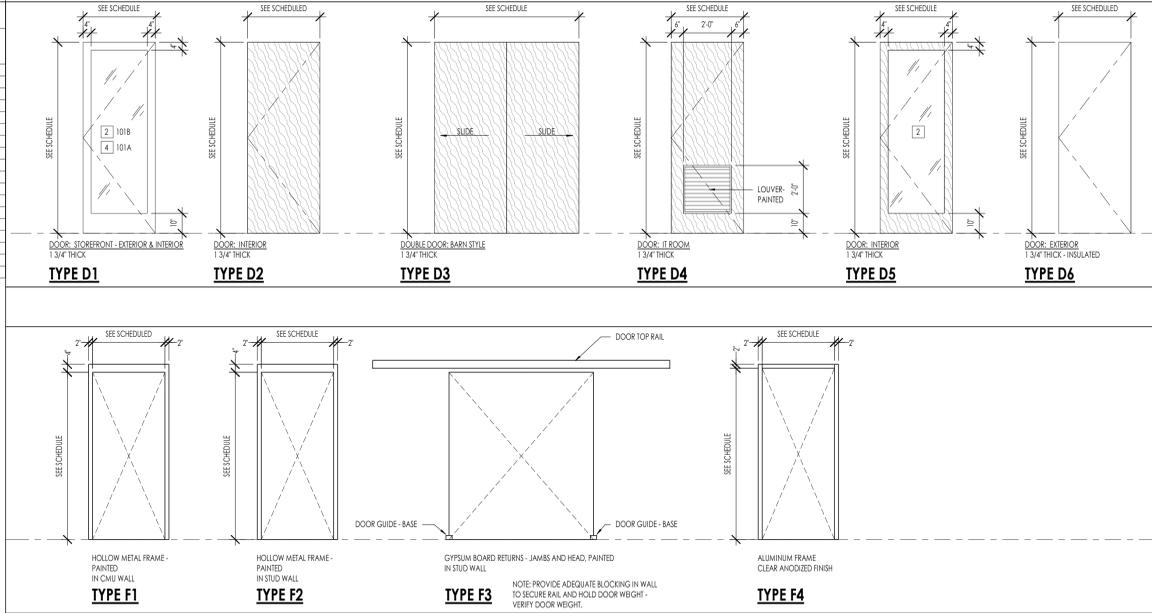
DOOR SCHEDULE GENERAL NOTES

- SEE SHEET A601 FOR DOOR AND FRAME TYPES.
- CONTRACTOR SHALL FIELD VERIFY ALL DOOR OPENINGS PRIOR TO ORDERING ALL DOORS.
- CONTRACTOR SHALL SUBMIT COMPLETE DOOR AND HARDWARE SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO ORDERING AND TAKING RECEIPT OF DOOR ORDER.
- ALL DOORS SHALL BE INSTALLED SO AS NOT TO HAVE MORE THAN 1/2" THRESHOLD AT EACH DOOR.
- SEE SPECIFICATION FOR DOOR HARDWARE SCHEDULE.
- REFER TO SPECIFICATION FOR CORRECT DOOR STYLES, SPECIES, AND FINISHES.
- SEE SHEETS A622 AND A603 FOR STOREFRONT ELEVATIONS WITH DOORS.

GLAZING SCHEDULE

MARK	GLAZING
1	1/4" THICK GLAZING
2	1/4" THICK TEMPERED GLAZING
3	1" LOW-E INSULATED GLAZING
4	1" LOW-E INSULATED TEMPERED GLAZING
5	2-3/4" INSULATED TRANSLUCENT PANEL

DOOR TYPES (D) AND FRAME TYPES (F)



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LAKE HAVASU CITY WATER QUALITY LABORATORY
 340 CYPRESS DRIVE
 LAKE HAVASU CITY, AZ, 86403

PROJECT NO. 24-077
 DATE: 2 APRIL 2025

REVISIONS:
 1 4.12.2025 CITY REVIEW 1
 2 5.21.2025 ADDENDUM 3

SHEET TITLE:
DOOR SCHEDULE, ELEVATIONS & DETAILS

SHEET NUMBER:
A601

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WINDOW LEGEND

SYMBOL	DESCRIPTION
(T)	TEMPERED GLAZING. COORDINATE WITH PROJECT KEYNOTES AND BUILDING CODE FOR ALL LOCATIONS.
(D)	DIRECTION OF OPERABLE WINDOW (DOOR SLIDE OR SWING OPERATION).
(E)	WINDOW IS REQUIRED TO MEET EMERGENCY EGRESS.

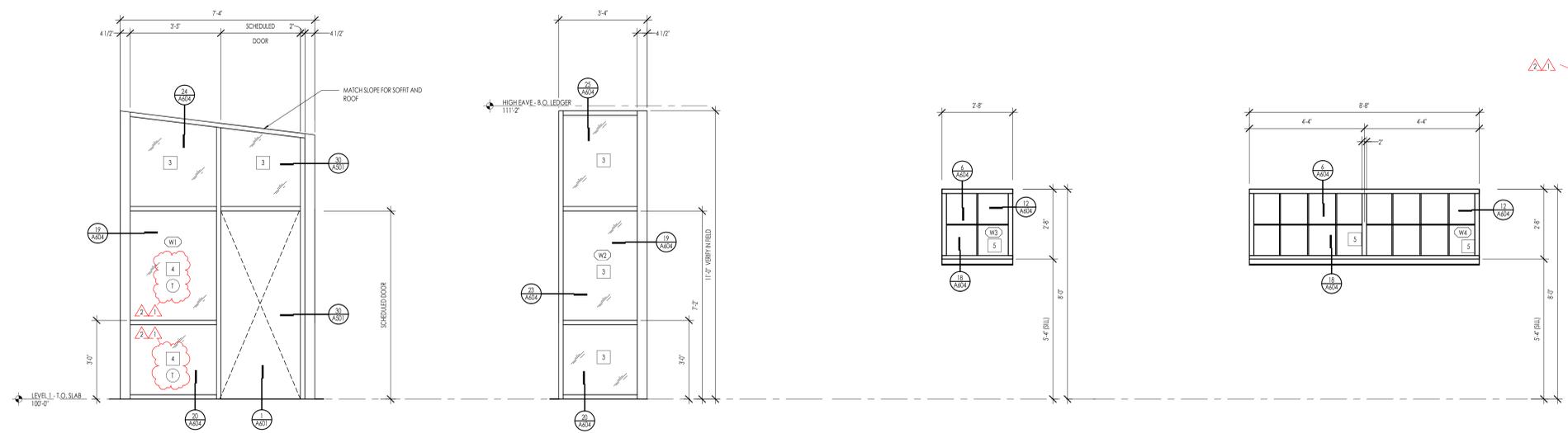
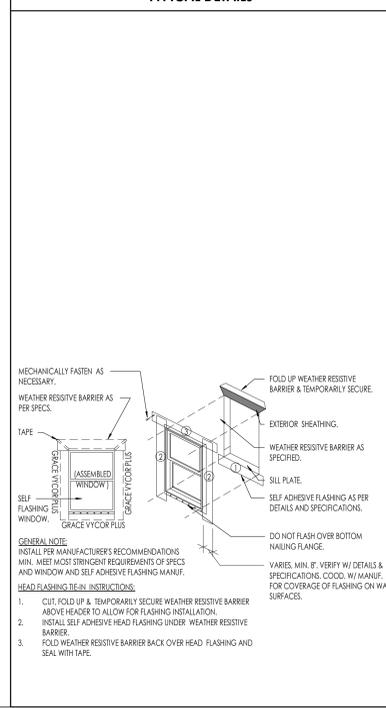
WINDOW SPECIFICATIONS

APPROVED MANUFACTURERS:	MINIMUM U-VALUE:
SCREENS REQUIRED:	SCREEN COLOR:
BASS OF DESIGN:	TYPICAL JAMB WIDTH:
WINDOW TYPE:	SDL WIDTH:
WINDOW COLOR:	SDL TYPE:
WINDOW GLAZING:	

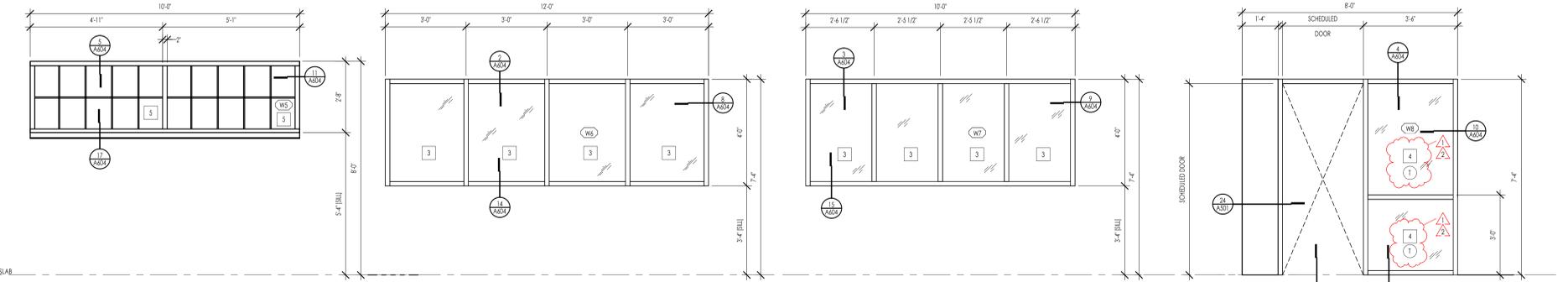
WINDOW GENERAL NOTES

- SAFETY GLAZING SHALL BE INSTALLED IN HAZARDOUS LOCATIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS. SEE IBC 2018, SECTION 2406.
 - EACH PANE OF GLASS INSTALLED IN HAZARDOUS LOCATIONS SHALL BE PERMANENTLY IDENTIFIED BY MANUFACTURERS, DESIGNATING THE TYPE, THICKNESS, AND SAFETY GLAZING STANDARD. THE LABEL SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC FIRED OR EMBOSSED ON GLASS AND BE VISIBLE WHEN THE UNIT IS GLAZED. FOR EXCEPTIONS SEE IBC 2018, SECTION 2406.5.
 - PROVIDE SAFETY GLAZING IN FIRED AND OPERABLE PANELS OF SWINGING, SLIDING AND FOLDING DOORS IBC 2018, SECTION 2406.4.1 SAFETY GLAZING SHALL BE PROVIDED WHEN GLAZING IN AN INDIVIDUAL FIRED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE AND IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION OR WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF AN IN SWINGING DOOR. IBC 2018, SECTION 2406.4.2.
 - PROVIDE SAFETY GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS. IBC 2018, SECTION 2406.4.7.
 - PROVIDE SAFETY GLAZING IN FIRED OR OPERABLE PANELS THAT MEETS ALL OF THE FOLLOWING CONDITIONS: AREA IS GREATER THAN 5 SQUARE FEET, BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR, TOP EDGE GREATER THAN 36 INCHES ABOVE FLOOR, AND WITHIN 36 INCHES OF WALKING SURFACE. IBC 2018, SECTION 2406.4.3.
- THE GENERAL CONTRACTOR AND WINDOW SUPPLIER ARE RESPONSIBLE TO FIELD MEASURE ALL WINDOW OPENINGS AND PROVIDE SHOP DRAWINGS BEFORE MANUFACTURING. SHOP DRAWINGS SHALL BE PROVIDED FOR EACH BUILDING INDIVIDUALLY AND SHALL NOT BE COMBINED WITH ANY OTHER BUILDING.
- THE WINDOW SUPPLIER SHALL BE RESPONSIBLE TO VERIFY ALL EMERGENCY EGRESS, LIGHT AND VENTILATION, AND TEMPERED GLASS LOCATION REQUIREMENTS PRIOR TO EACH SUBMITTAL.
- THE GENERAL CONTRACTOR AND WINDOW SUPPLIER ARE RESPONSIBLE TO VERIFY THAT EACH OF THE ABOVE LISTED REQUIREMENTS HAVE BEEN MET AND NOTE ANY DISCREPANCIES ON SUBMITTAL.
- REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

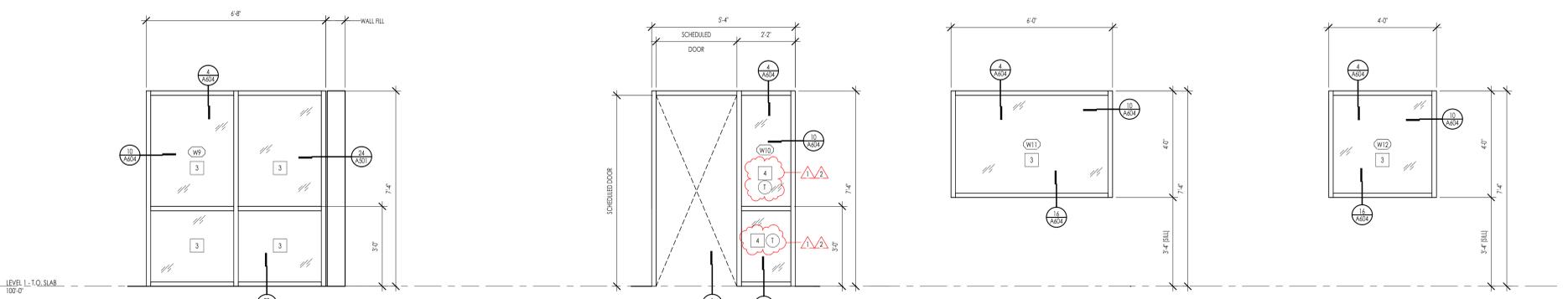
TYPICAL DETAILS



WINDOW W1 - ALUMINUM 1/2" = 1'-0" (1)
WINDOW W2 - ALUMINUM 1/2" = 1'-0" (2)
WINDOW W3 - ALUMINUM 1/2" = 1'-0" (3)
WINDOW W4 - ALUMINUM 1/2" = 1'-0" (4)



WINDOW W5 - ALUMINUM 1/2" = 1'-0" (5)
WINDOW W6 - ALUMINUM 1/2" = 1'-0" (6)
WINDOW W7 - ALUMINUM 1/2" = 1'-0" (7)
WINDOW W8 - ALUMINUM 1/2" = 1'-0" (8)



WINDOW W9 - ALUMINUM 1/2" = 1'-0" (9)
WINDOW W10 - ALUMINUM 1/2" = 1'-0" (10)
WINDOW W11 - ALUMINUM 1/2" = 1'-0" (11)
WINDOW W12 - ALUMINUM 1/2" = 1'-0" (12)

LAKE HAVASU CITY WATER QUALITY LABORATORY
340 CYPRESS DRIVE
LAKE HAVASU CITY, AZ, 86403

PROJECT NO. 24-077
DATE: 2 APRIL 2025

REVISIONS:
1 4.12.2025 CITY REVIEW 1
2 5.21.2025 ADDENDUM 3

SHEET TITLE:
WINDOW ELEVATIONS

SHEET NUMBER:
A602

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BUILDING DEPARTMENT PERMIT REVIEW SET

Plot Date: 5/21/2025 1:50:42 PM



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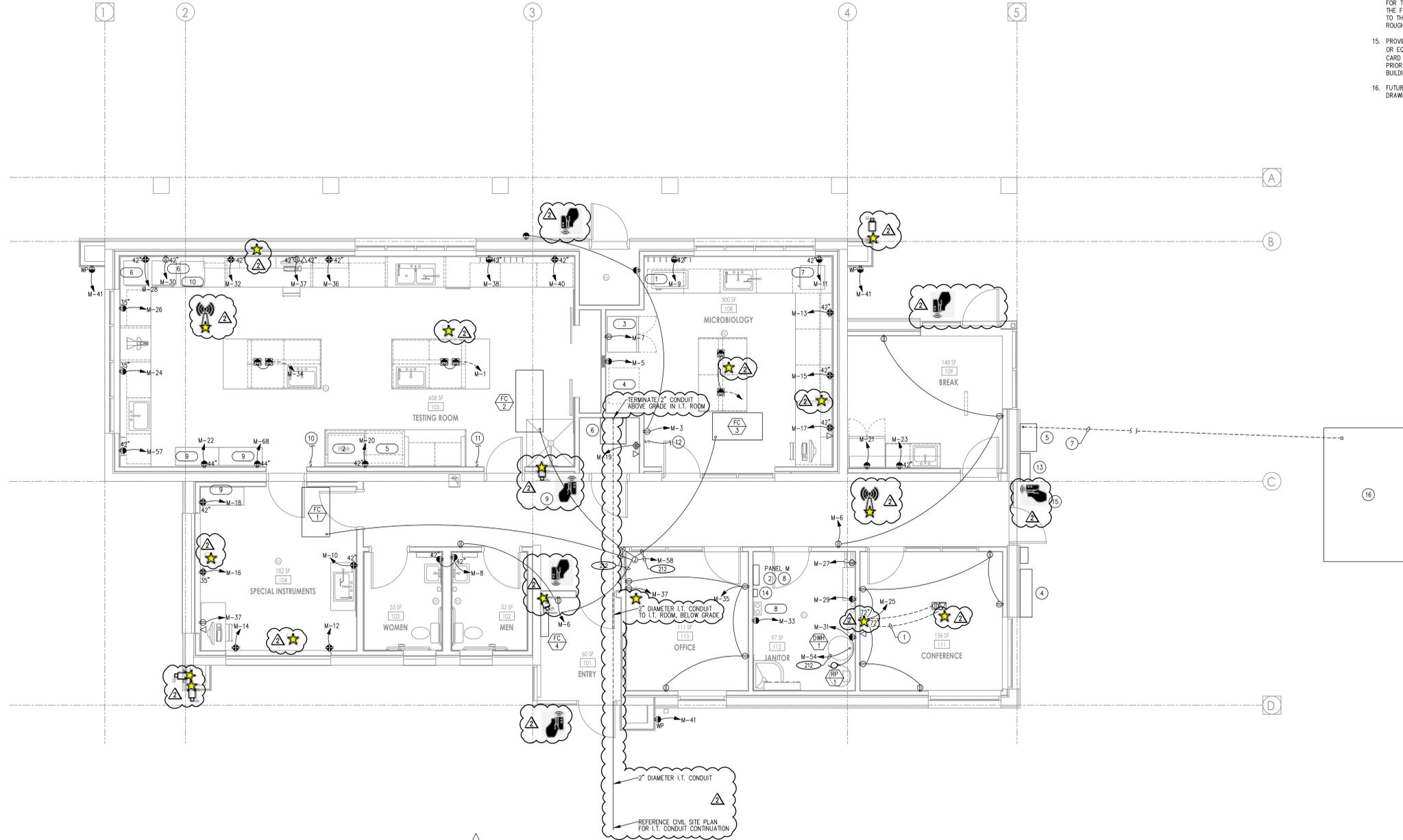
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- KEYED NOTES
1. PROVIDE 1 1/2" CONDUIT FOR HDMI AND/OR DATA CABLE.
 2. PANEL M. SEE SHEET E5.0 FOR PANEL SCHEDULE AND DETAILS.
 3. OWNER SHALL FURNISH CARD READERS. GC SHALL INSTALL THEM AND MAKE THEM OPERATIONAL. TYPICAL.
 4. CT CABINET AND CT METER BASE. SEE SHEET E5.0.
 5. AUTOMATIC TRANSFER SWITCH (ATS). SEE SHEET E5.0.
 6. PROVIDE A NETWORK RACK (TRIPP-LITE SRW26USDOP/SRW26USDPC AS REQUIRED BY OWNER) AND INSTALL IN THE IT ROOM. CONFIRM THE LOCATION FOR INSTALLATION AND THE POWER RECEPTACLE WITH OWNER PRIOR TO ROUGH-IN.
 7. STUB ONE 1" CONDUIT AND TWO 4" CONDUITS EACH WITH A PULL CORD AND A #12CU CONDUCTOR FOR TRACING FROM ATS OUT TOWARD THE FUTURE GENERATOR LOCATION 24' PAST THE FOUNDATION OF THE BUILDING UNTIL UNDER ACCESSIBLE SOIL FOR CONNECTION TO THE GENERATOR. CAP THE CONDUIT. CONFIRM CONDUIT ROUTING PRIOR TO ROUGH-IN.
 8. STUB TWO 1" CONDUITS WITH PULL CORD AND #12CU CONDUCTOR FOR TRACING FROM PANEL M OUT TOWARD THE FUTURE GENERATOR LOCATION 24' PAST THE FOUNDATION OF THE BUILDING UNTIL UNDER ACCESSIBLE SOIL FOR FUTURE CONNECTION TO THE GENERATOR. CAP THE CONDUIT. CONFIRM CONDUIT ROUTING PRIOR TO ROUGH-IN.
 9. OWNER SHALL FURNISH CAMERAS. GC SHALL INSTALL THEM AND MAKE THEM OPERATIONAL. GC SHALL SCHEDULE TIME TO COORDINATE WITH OWNER I.T. PERSONNEL PRIOR TO AND DURING INSTALLATION. TYPICAL.
 10. PROVIDE CONDUIT AND CONDUCTORS UP TO EF-5 FOR CONTROL.
 11. PROVIDE CONDUIT AND CONDUCTORS UP TO EF-6 FOR CONTROL.
 12. PROVIDE CONDUIT AND CONDUCTORS UP TO EF-7 FOR CONTROL.
 13. 600A SERVICE DISCONNECT.
 14. REMOTE GENERATOR CONTROLLER. PROVIDE A REMOTE GENERATOR CONTROLLER AND ANNUNCIATOR FROM GENERATOR MANUFACTURER WITH A 1" CONDUIT, UNDER GROUND, TO THE ATS AND A 1" CONDUIT WITH PULL CORD AND #12CU CONDUCTOR FOR TRACING FROM IT OUT TOWARD THE FUTURE GENERATOR LOCATION 24' PAST THE FOUNDATION OF THE BUILDING UNTIL UNDER ACCESSIBLE SOIL FOR CONNECTION TO THE GENERATOR. CAP THE CONDUIT. CONFIRM CONDUIT ROUTING PRIOR TO ROUGH-IN.
 15. PROVIDE A PEDESTAL FOR THE CARD READER (PEDESTALPRO 22PE1-2NIP-04-CRS OR EQUAL) IN COLOR BLACK WITH THE CARD READER MOUNT COMPATIBLE WITH THE CARD READER. CONFIRM EXACT INSTALLATION LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE CONDUIT FROM PEDESTAL BASE UNDERGROUND INTO BUILDING FOR CARD READER WIRING.
 16. FUTURE GENERATOR AND GENERATOR CONCRETE PAD LOCATION. REFERENCE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.



1 POWER PLAN
E2.0
SCALE: 1/4" = 1'-0"

LAKE HAVASU CITY WATER QUALITY LABORATORY

360 CYPRESS DRIVE
LAKE HAVASU CITY, AZ 86403

PROJECT NO. 24-077
DATE: 21, APRIL 2025
REVISIONS:
ADDENDUM 3 5/21/25

SHEET TITLE:
POWER PLAN

SHEET NUMBER:
E2.0

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SECTION 310

BID SCHEDULE – New Laboratory Building, Project No. B25-PW-107032-500638

ITEM NO.	DESCRIPTION	EST QTY	UNIT OF MEASURE	UNIT PRICE¹ (Word)	UNIT PRICE (Figure)	ITEM TOTAL² COSTS
BASE BID						
1	Mobilization, Bonds & Insurance	1	L.S.	_____	\$ _____	\$ _____
2	Survey	1	L.S.	_____	\$ _____	\$ _____
Civil Portion:						
3	Quality Control & Structural Inspections	1	L.S.	_____	\$ _____	\$ _____
4	Environmental Controls and BMP's	1	L.S.	_____	\$ _____	\$ _____
5	Sewer Line & Connections	80	L.F.	_____	\$ _____	\$ _____
6	Utility Trench per Standard Detail 200	30	L.F.	_____	\$ _____	\$ _____
7	1.5 Inch Water Service	1	Each	_____	\$ _____	\$ _____
8	4" Fire Line & Misc. Connections	106	L.F.	_____	\$ _____	\$ _____
9	Install Double Detector Check	1	Each	_____	\$ _____	\$ _____
10	2" Asphalt on 3" Base Material	1,155	S.Y.	_____	\$ _____	\$ _____
11	Graded Swell	262	L.F.	_____	\$ _____	\$ _____
12	Retention Pond	1,054	S.F.	_____	\$ _____	\$ _____
13	8 Inch Curb	150	L.F.	_____	\$ _____	\$ _____

¹ The "Unit Price" column shall indicate unit or lump sum prices for each bid item and shall be indicated in written and numerical form.

² The "Item Total Costs" column shall indicate the extension of the unit prices, which is obtained by multiplying the "Estimated Quantity" column by the "Unit Price" column.

² The "Bid Total" amount shall be the sum of all costs listed in the "Item Total Costs" column.

14	4 Inch Sidewalk	2,020	S.F.	_____	\$ _____	\$ _____
15	Curb Stop	9	S.F.	_____	\$ _____	\$ _____
16	Single Trash Enclosure	1	Each	_____	\$ _____	\$ _____
17	Earthwork	398	C.Y.	_____	\$ _____	\$ _____

Architectural Portion:

18	New Laboratory Building - Structural	1	L.S.	_____	\$ _____	\$ _____
19	New Laboratory Building - Mechanical	1	L.S.	_____	\$ _____	\$ _____
20	New Laboratory Building – Plumbing	1	L.S.	_____	\$ _____	\$ _____
21	New Laboratory Building - Electrical	1	L.S.	_____	\$ _____	\$ _____
22	New Laboratory Building – All Other Work	1	L.S.	_____	\$ _____	\$ _____
23	Force Account Work	1	L.S.	_____	\$ _____	\$ _____
				Eighty Thousand Dollars	\$ 80,000.00	\$ 80,000.00

BID TOTAL³ + FORCE ACCOUNT

_____	\$ _____	\$ _____
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Above line items and totals shall include all work shown on the plans and specified herein, including taxes, insurance and bonding.

¹ The “Unit Price” column shall indicate unit or lump sum prices for each bid item and shall be indicated in written and numerical form.
² The “Item Total Costs” column shall indicate the extension of the unit prices, which is obtained by multiplying the “Estimated Quantity” column by the “Unit Price” column.
³ The “Bid Total” amount shall be the sum of all costs listed in the “Item Total Costs” column.

SECTION 01210

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 Description

The outline of measurement and payment in this section is intended to provide a general guideline to the Contractor in preparing bids and submitting pay requests. Listing of work included in each bid item is not intended to include all work, but is to provide general guidance to the Contractor for allocating costs. All work will be paid for on a unit price basis with payment made for the quantity of each item completed.

All materials required for construction shall be furnished by the Contractor unless specifically stated. Items not specifically measured and paid for shall be considered as subsidiary items required to complete the installation in accordance with the intent of the contract documents. The Contractor shall include in the unit price bid items, all costs associated with subsidiary items not being measured for payment.

1.2 Authority

Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

Take all measurements and compute quantities. The Engineer will verify measurements and quantities.

1.3 Unit Quantities

Quantities indicated in the Bid Form are for bidding and contract purpose only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.

If the actual Work requires more or fewer quantities than indicated, provide the required quantities at the unit prices contracted.

PART 2 – UNITS AND METHODS OF MEASUREMENT

2.1 General

All items that are included in the bid for measurement and payment are included herein. All other items of work shall be considered subsidiary to construction and will not be measured for payment.

2.2 Units and Methods of Measurement

2.2.1 Mobilization, Bonds, and Insurance

The Contract Lump Sum Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for all required bonds, insurance, mobilization of staff and equipment, and any other costs associated with complying with the contract administrative requirements and commencing work at the project site. This item also includes all work and materials necessary to complete the work as described in the plans and specifications. **Payment for this item shall be lump sum and shall not be requested until at least thirty days from the notice to proceed has elapsed.**

Payment for this item shall be made in accordance with Table A.

TABLE A

Payment for Mobilization on First Partial Payment	Not to exceed 2.5% of the Lump Sum Base Bid
Subsequent payments for Mobilization	Not to exceed 2.5% of the Lump Sum Base Bid
Payment For Mobilization on Final Partial Payment	Any remaining Mobilization in excess of 5% of the Lump Sum Base Bid

2.2.2 Survey

The quantity of "Survey" measured for payment shall be lump sum.

The CONTRACT lump sum bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for performing surveying for the civil portion and the architectural portion in accordance with the Plans and Specifications and acceptable to the Engineer.

2.2.3 Quality Control & Structural Inspections

The quantity of "Quality Control & Structural Inspections" measured for payment shall be lump sum.

The CONTRACT lump sum bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the development and implementation of the Quality Control & Structural Inspections in accordance with the Specifications and acceptable to the Engineer.

The contractor will be responsible for providing special inspections for all denoted structural connections and shall be stamped by a Civil Engineer or Structural Engineer in the State of Arizona.

2.2.4 Environmental Control & BMP's

The quantity of "Environmental Control & BMP's" measured for payment shall be lump sum.

The CONTRACT lump sum bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the development and implementation of the Storm Water Pollution Prevention Plan (SWPPP) Plan(s) in accordance with the Specifications and acceptable to the Engineer. All SWPPP's shall be in compliance with the City and Arizona Department of Environmental Quality (ADEQ). This shall include all netting, straw wattles, sandbags, stabilized entrance(s), washout areas, vehicle storage and maintenance areas, and related items necessary to ensure the stormwater quality is maintained throughout the project, at all times. This item also includes all work and materials necessary to complete the work as described in the Plans and Specifications. Payment of this item shall be lump sum.

2.2.5 Sewer Line & Connections

The quantity of "Sewer Line & Connections" measured for payment shall be "Linear feet".

The CONTRACT linear feet bid price for this item shall be full compensation for furnishing all materials, labor, equipment and tools to provide "Sewer Line & connections".

The contractor will be responsible for installation for Installation of the Sewer Line from the property line to the building. City forces have installed the sewer line from the mainline to the property with the connection to the mainline.

2.2.6 Utility Trench Per Standard Detail 200

The quantity of "Utility trench and asphalt surfacing per Lake Havasu City standard detail 200" measured for payment shall be "Linear Feet".

The CONTRACT lump sum bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the utility trench & asphalt surfacing per LHC standard Detail 200. The contractor will be responsible for saw cutting and removal of all existing asphalt material disposed in a suitable disposal location. The contractor will be responsible for relative compaction of subgrade, roadway base and placement of 3" asphalt surfacing as indicated in lake Havasu standard detail 200 and lake Havasu specifications section 2300.

2.2.7 1.5 Inch Water Service

The quantity of "1.5 Inch Water Service measured for payment shall be "Linear Feet".

The CONTRACT unit bid price for "1.5 Inch Water Service" shall be full compensation for furnishing all materials, labor, equipment and tools to construct 1.5" water Service components to the extents shown and specified in the CONTRACT DOCUMENTS, including any/all other work associated with the removals as shown on the Plans, as specified in the Specifications, and as directed by the ENGINEER.

City Forces have already installed the connection to the mainline with water service and meter to the property line. It will be the contractors Responsibility to supply the water service to the building.

2.2.8 4" Fireline and Miscellaneous Connections

The quantity of "4" Fireline and Miscellaneous Connections Measured for payment shall be per "Lump Sum".

The CONTRACT unit bid price "4" Fireline and Miscellaneous Connections" shall constitute full compensation for furnishing all materials, labor, equipment and tools to provide for electrical work within specification tolerances. Work includes but is not limited to, constructing and furnishing all items in accordance with the Plans and Specifications and as directed by the ENGINEER. Payment of this item shall be made per Lump Sum upon and will only be made after electrical work has successfully passed acceptance testing, visual inspection by certified personnel provided by the contractor under this bid item.

City Forces Have Installed the connections to the mainline with a lateral that is capped at the property line. The contractors will need to install all miscellaneous connections to supply the 4" fire line service to the building.

2.2.9 Install Double Detector Check

The quantity of "Double Detector Check" measured for payment shall be "Each".

The CONTRACT lump sum bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the Double Detector Check on the 4" Fireline.

2.2.10 2" Asphalt on 3" Base Material

The quantity of "2" Asphalt on 3" Base Material" measured for payment shall be "Square Yards".

2" Asphalt concrete pavement on 3" Base Material shall be measured by square yard of pavement limits. The contract unit price shall include furnishing all materials, labor, equipment and tools used for paving. Refer to Section 02630 of the LHC Technical Specifications.

2.2.11 Graded Swale

The quantity of "Graded Swale" measured for payment shall be "Linear Feet".

"Graded Swale" shall be measured by linear feet. The contract unit price shall include furnishing all materials, labor, equipment and tools used for grading.

2.2.12 Retention Pond

The quantity of "Retention Pond" measured for payment shall be "Square Feet".

The contractor will be responsible for grading, removal and disposal of all excess earthwork and placing 6" Rip Rap with 3 to 1 side slopes per plans and specifications.

2.2.13 8-Inch Curb

The quantity of "8-inch curb" measured for payment shall be "Linear Foot".

The CONTRACT linear foot bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the 8 Inch Curb per Lake Havasu Standard detail 216.

2.2.14 4-Inch Sidewalk

The quantity of "4-Inch Sidewalk" measured for payment shall be "Square Foot".

The CONTRACT Square foot bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools per Lake Havasu Standard detail 216.

2.2.15 Curb Stop

The quantity of "4-Inch Sidewalk" measured for payment shall be "Square Foot".

The CONTRACT Square foot bid price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools per plans and details.

2.2.16 Single Trash Enclosure

The quantity of "Single Trash Enclosure" measured for payment shall be "Each".

The CONTRACT "Each" price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools per plans and details. This includes all concrete, rebar, grading, base material, masonry block and other miscellaneous materials to construct the trash enclosure per plans and specifications.

2.2.17 Earthwork

The quantity of "Earthwork" measured for payment shall be "Cubic Yard".

The CONTRACT cubic yard price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct grade per plans and specifications.

2.2.18 New Laboratory Building - Structural

The quantity of "New Laboratory Building - Structural" measured for payment shall be "Lump Sum".

The CONTRACT lump sum price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct the structural portion of the new laboratory building per plans and specifications.

2.2.19 New Laboratory Building - Mechanical

The quantity of "New Laboratory Building - Mechanical" measured for payment shall be "Lump Sum".

The CONTRACT lump sum price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct the mechanical portion of the new laboratory building per plans and specifications.

2.2.20 New Laboratory Building - Plumbing

The quantity of "New Laboratory Building - Plumbing" measured for payment shall be "Lump Sum".

The CONTRACT lump sum price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct the plumbing portion of the new laboratory building per plans and specifications.

2.2.21 New Laboratory Building - Electrical

The quantity of "New Laboratory Building - Electrical" measured for payment shall be "Lump Sum".

The CONTRACT lump sum price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct the electrical portion of the new laboratory building per plans and specifications.

2.2.22 New Laboratory Building – All Other Work

The quantity of "New Laboratory Building – All Other Work" measured for payment shall be "Lump Sum".

The CONTRACT lump sum price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools required to construct all other work associated to the new laboratory building per plans and specifications.

2.2.23 Force Account

The Contract Lump Sum Price for this item shall be included in the Bid Schedule. Only the OWNER shall determine the use of monies in the "Force Account".

The OWNER will authorize the use of monies in the Force Account by Change Order. Unused Force Account monies will be removed from the Cost of the Work by Change Order.

****END OF SECTION 01210****