

LOCKER ROOM RENOVATIONS FOR TASKER ARENA HOBBS MUNICIPAL SCHOOLS HOBBS, NEW MEXICO MAY 2023

Index of Drawings

ARCHITECTURAL

COVER	GENERAL NOTES AND CODE ANALYSIS
G002	ADA COMPLIANCE DETAILS
AD-100	OVERALL DEMOLITION PLAN
AD-101	ENLARGED PARTIAL DEMOLITION PLANS
A-100	OVERALL FLOOR PLAN
A-101	ENLARGED PARTIAL FLOOR PLANS
A-102	INTERIOR ELEVATIONS AND SCHEDULES
A-103	DETAILS

MECHANICAL / PLUMBING

M-101	MECHANICAL FLOOR PLAN
M-102	MECHANICAL FLOOR PLAN
M-103	MECHANICAL SPECIFICATIONS AND DETAILS
PD-101	PLUMBING DEMOLITION PLANS
P-101	SEWER, WASTE AND VENT PLANS
P-102	DOMESTIC WATER PLANS
P-103	PLUMBING RISER AND DETAILS
P-104	PLUMBING SPECIFICATIONS AND SCHEDULE

ELECTRICAL

ED-101	ELECTRICAL DEMOLITION PLAN
ED-102	ELECTRICAL DEMOLITION PLANS
E-101	LIGHTING FLOOR PLAN
E-102	LIGHTING FLOOR PLANS
E-103	POWER AND COMMUNICATIONS PLAN
E-104	POWER AND COMMUNICATIONS PLANS
E-105	ELECTRICAL DETAILS
E-106	ELECTRICAL SPECIFICATIONS

GENERAL NOTES

- GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTORS ARE RESPONSIBLE FOR A COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS AND SPECIFICATIONS. NO 'EXTRAS' FOR MISSED ITEMS IN OTHER SECTIONS WILL BE PERMITTED.
- ANY LABOR OR MATERIAL, EITHER NOT SHOWN ON THE DRAWINGS OR NOT SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK SHALL BE FURNISHED WITHOUT ADDITIONAL COST.
- THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT AS REQUIRED TO COMPLETE ALL WORK AND FURNISH A COMPLETE JOB, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GOVERNING AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED. THE OWNER SHALL PAY ALL TAP AND METER FEES REQUIRED FOR THE PLUMBING, ELECTRICAL AND HVAC. FIRE SPRINKLER SUBCONTRACTOR SHALL PAY FOR THEIR PERMITS AND TAPS.
- EQUIPMENT MAY BE LOCATED ON THESE DRAWINGS DIAGRAMMATICALLY. SUBCONTRACTORS SHALL COORDINATE WITH THE GENERAL CONTRACTOR WHEN LOCATION OF SUCH ITEMS ARE IN CONFLICT WITH STRUCTURAL CONDITIONS OR WORK FROM OTHER TRADES. QUESTIONS SHALL BE DIRECTED TO ARCHITECT AND HIS DECISIONS SHALL BE FINAL. NO ADDITIONAL COST WILL BE INCURRED DUE TO CONFLICTS.
- ALL CONTRACTORS SHALL VISIT THE SITE AND FULLY INSPECT THE CONDITIONS PRIOR TO SUBMISSION OF ALL BIDS.
- THE PLUMBING, ELECTRICAL, HEATING, VENTILATION AND AIR CONDITIONING CONTRACTORS SHALL BE UNDER THE DIRECTION OF THE GENERAL CONTRACTOR. THE FIRE PROTECTION SUBCONTRACTOR WILL PROVIDE A DESIGN-BUILD SERVICE, UNDER THE GENERAL CONTRACTOR'S DIRECTION, BUT PLANS ARE SUBJECT TO REVIEW AND REVISION BY ARCHITECT.
- PROVIDE EDGE STRIPS AT ALL APPLIED FLOOR FINISH MATERIAL TRANSITIONS.
- GENERAL CONTRACTOR TO PROVIDE CONTINUOUS BLOCKING FOR ALL KITCHEN CABINETS, CURTAIN RODS, TOILET ACCESSORIES, HANDRAILS, DOOR JAMBS, COUNTERTOPS, DRYWALL CATCHES AND SIMILAR ITEMS.
- FIRESTOP ALL OPENINGS AROUND PIPES, CONDUITS, ETC. WHERE THEY PENETRATE ANY FLOOR OR FIRE-RATED WALL (IF APPLICABLE).
- PROVIDE ACCESS PANELS AT ALL VALVES AND SIMILAR AREAS WHERE ACCESS IS REQUIRED. ACCESS PANELS ARE TO BE RATED AS REQUIRED. SUBCONTRACTORS TO ADVISE GENERAL CONTRACTOR OF NECESSARY LOCATIONS. ALL PANELS TO BE FURNISHED AND INSTALLED BY THE DRYWALL CONTRACTOR. LOCATIONS SHALL BE APPROVED BY ARCHITECT.
- CONTRIBUTION FEES ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD NOT BE INCLUDED IN CONSTRUCTION PRICE.
- THE GENERAL CONTRACTOR AND SUBCONTRACTS WILL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND COMMENT, 14 DAYS PRIOR TO THEIR ORDERING DEADLINE. THE EXCUSE THAT THE SHOP DRAWING REVIEW DELAYED THE RECEIPT OF THE SPECIFIED OR SELECTED PRODUCT OR MATERIAL WILL NOT BE ACCEPTED AND THE GENERAL CONTRACTOR AND/OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR EXPENSES INCURRED TO OBTAIN THE DESIRED PRODUCT IN A TIMELY MANNER. THE GENERAL CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND A SHOP DRAWING LOG TO ARCHITECT WITHIN TWO WEEKS OF NOTICE TO BEGIN CONSTRUCTION.

SYMBOL LEGEND

	PROPERTY LINE		PROJECT NORTH
	CHAINLINK FENCING		TRUE NORTH
	1 HR. FIREWALL		INDICATES DETAIL NUMBER
	2 HR. FIREWALL		SHEET WHERE DETAIL IS LOCATED
	3 HR. FIREWALL		INDICATES INTERIOR ELEVATION NUMBER
	COLUMN GRID		SHEET WHERE ELEVATION IS LOCATED
	ROOM NUMBER		INDICATES EXTERIOR ELEVATION NUMBER
	DOOR NUMBER		SHEET WHERE ELEVATION IS LOCATED
	WINDOW TYPE		INDICATES SECTION NUMBER
	REVISION NUMBER		SHEET WHERE SECTION IS LOCATED
	EQUIPMENT, FIXTURE TYPE		EXISTING ELEVATION
	WALL TYPE		NEW ELEVATION
	EXISTING ELEVATION		

PROJECT CODE ANALYSIS

OCCUPANCY CLASSIFICATION

REMODEL: E

CONSTRUCTION TYPE

EXIST. BUILDING: II-A

ALLOWABLE AREA

(IBC 2015 - TABLE 503)

EXIST. BLDG. ALLOWABLE SF.: E	TYPE	ALLOWABLE
	II-A	106,000 SQ. FT. (ONE FLOOR ABOVE GRADE)
ACTUAL SF.: E	II-A	97,691 SQ. FT. (ONE FLOOR ABOVE GRADE)

OCCUPANCY LOAD (IBC 2015 - TABLE 1004.1.2)

REMODEL	SF	FACTOR	OCCUPANCY
LOCKER ROOMS	2628	50	53
SHOWERS	161	0	0
RESTROOMS	320	0	0
TOTAL	3,115		53

NUMBER OF EXITS REQUIRED (IBC 2015 - TABLE 1005.1)

NUMBER OF EXITS REQUIRED (BASED ON REMODEL AREA OCCUPANCY ONLY): 53 x 2 = 106'
WIDTH OF EXITS PROVIDED: 1 EXITS x 12' = 12' 2 EXITS x 36' = 72' 144' TOTAL

EXIT SIGNAGE

EACH EXIT SHALL BE PROVIDED WITH EXIT LIGHT WITH EMERGENCY POWER BACK-UP

SPRINKLER SYSTEM

NOT REQUIRED

ALARM AND EXTINGUISHERS

EXISTING FIRE ALARM AND FIRE EXTINGUISHERS TO REMAIN.

CORRIDOR DOORS

ALL DOORS AND FRAMES SHALL BE 20 MINUTE RATED WITH CLOSING DEVICE AND SMOKE SEAL.

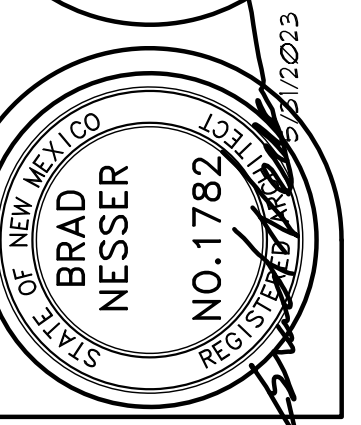
MINIMUM PLUMBING FIXTURES REQUIRED (IBC 2015 - TABLE 2902.1)

REMODEL AREA OCCUPANCY: 53
53 ÷ 2 = 21 MALE/FEMALE

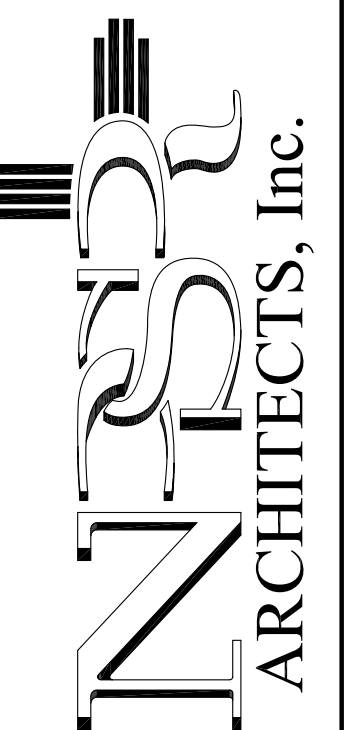
	21 MALE			21 FEMALE			DRINKING FOUNTAIN	SERVICE SINK	SHOWER
REQUIRED FIXTURES	WC	UR	LAV	WC	UR	LAV	1	1	0
FIXTURES PROVIDED	4	4	2	3	0	2	2	EXISTING	35

PROJECT NUMBER

22-110



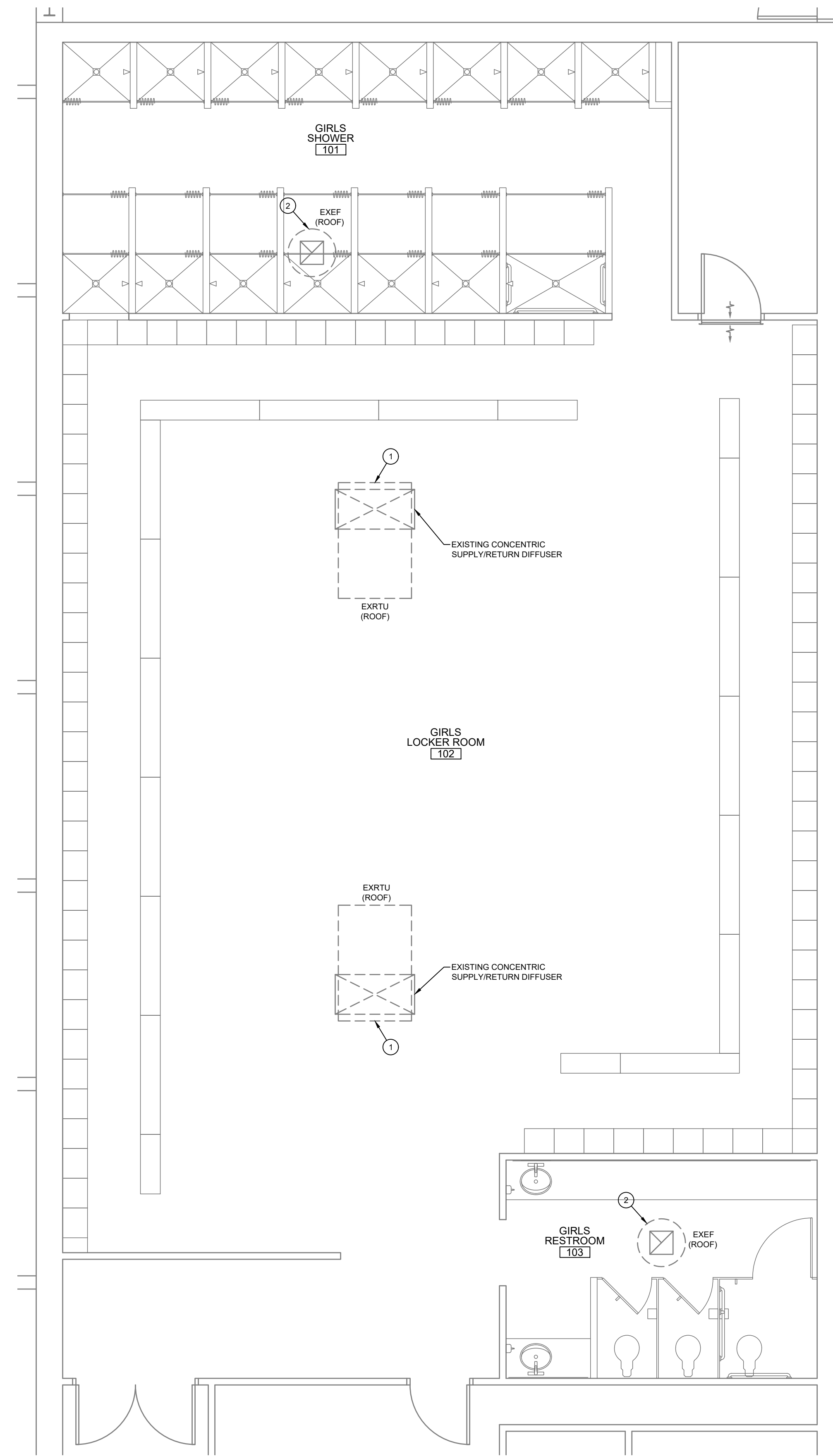
606 WEST BIERCE ST.
CARLSBAD, NM 88220
PH: 575.885.4775
FAX: 575.885.4827
220 BROADWAY ST.
SUITE B
HOBBS, NM 88240
PH: 575.433.4775
FAX: 575.433.4777
www.npsr.pro



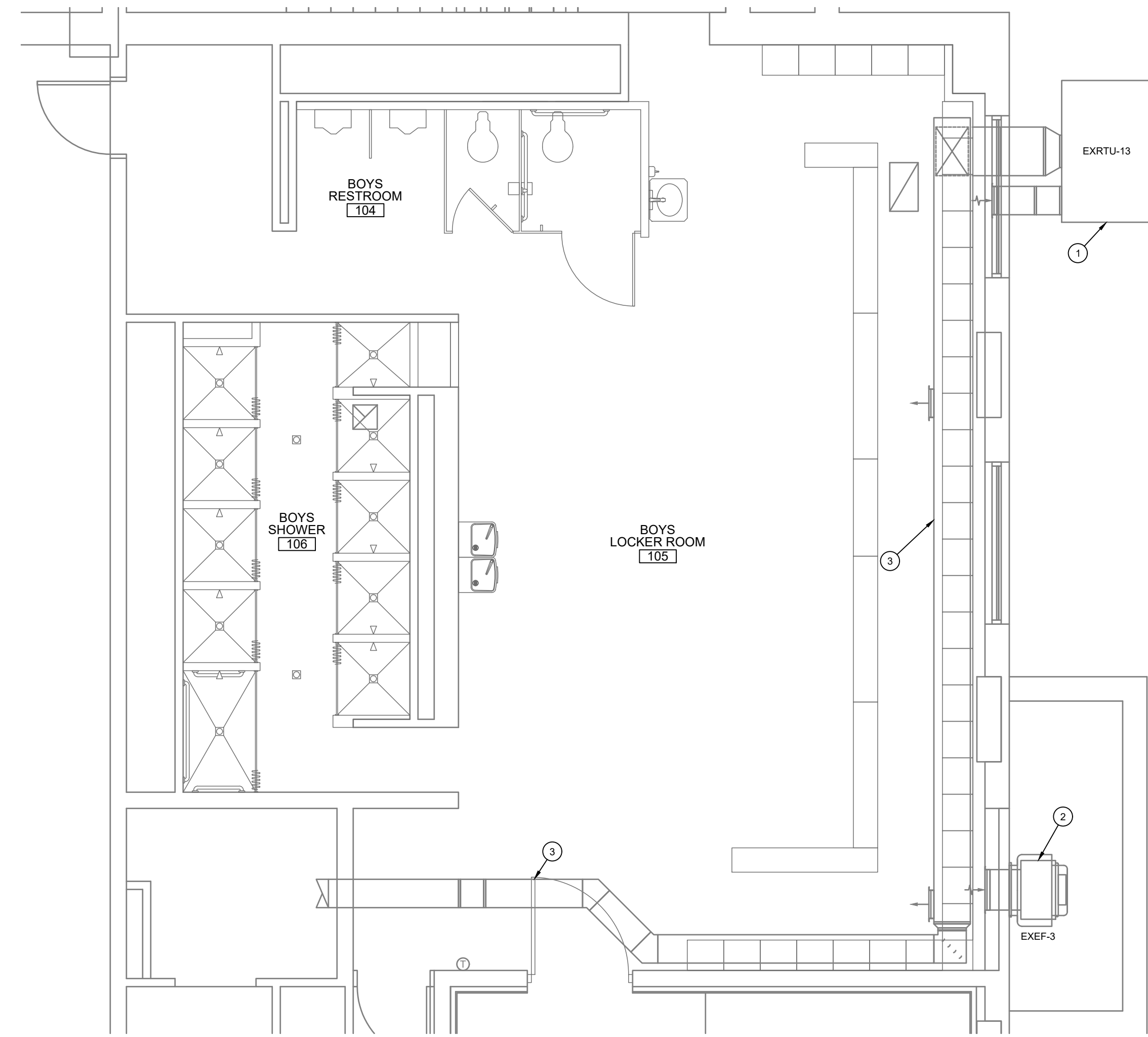
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
1400 E. SCHARBAUER ST.
HOBBS, NEW MEXICO

SET NUMBER

This document, and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



1 ENLARGED PARTIAL FLOOR PLAN - MECHANICAL
Scale: 1/4" = 1'-0"



2 ENLARGED PARTIAL FLOOR PLAN - MECHANICAL
Scale: 1/4" = 1'-0"

GENERAL NOTES

- A. VERIFY EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, AND GRILLES AT JOBSITE.
- B. CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER.
- C. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES.

KEYED NOTES

- 1. EXISTING ROOFTOP UNIT AND ALL ASSOCIATED ITEMS TO REMAIN.
- 2. EXISTING EXHAUST FAN AND ALL ASSOCIATED ITEMS TO REMAIN. TEMPORARILY REMOVE AND REINSTALL CONNECTED EXHAUST GRILLES AS REQUIRED FOR ANY CEILING WORK IN THIS ROOM.
- 3. EXISTING DUCTWORK AND ALL ASSOCIATED AIR DEVICES TO REMAIN.



FINCHER ENGINEERING, LLC
 TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109
 WWW.FINCHERENG.COM

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

LOCKER ROOM RENOVATIONS
 FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
 HOBBS, NEW MEXICO
 1400 E. SCHARBAUER ST.

606 WEST HERCULES ST.
 SUITE 230
 HOUSTON, TX 77058
 PH: 575.885.4775
 FAX: 575.885.4827

220 BROADWAY ST.
 SUITE 200
 HOUSTON, TX 77002
 PH: 575.433.4775
 FAX: 575.433.4777
 www.npsrpro

NPSR
 ARCHITECTS, Inc.

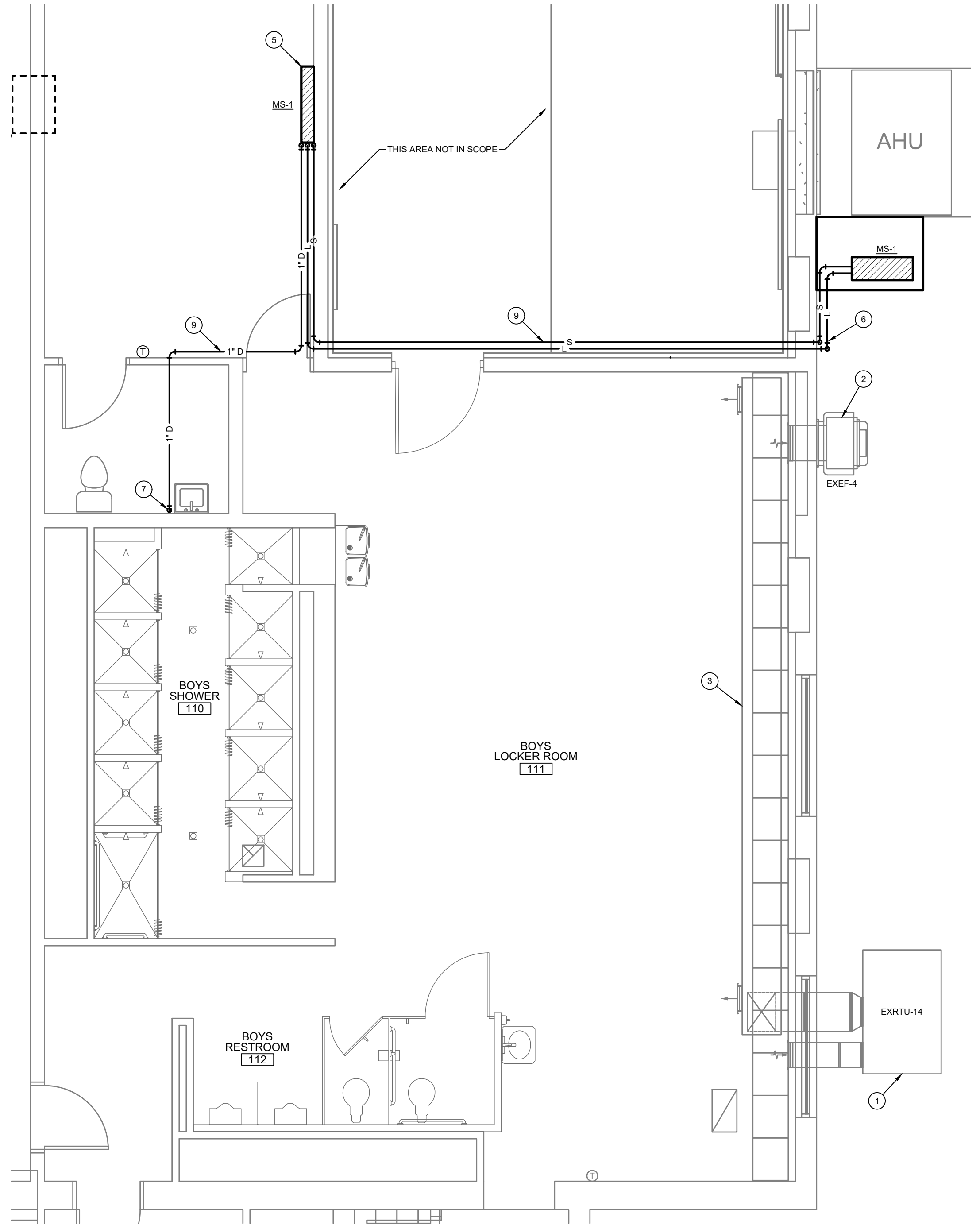
PROJECT NO.	DATE	DESCRIPTION
	09-30-23	CONSTRUCTION DOCUMENTS

DATE: 5-30-2023

PROJECT NO. _____
 DRAWN BY: JTF
 OK'D BY: JTF
 APPROVED BY: JTF

SHEET TITLE: **M101**
MECHANICAL
 SHEET 1 OF 3

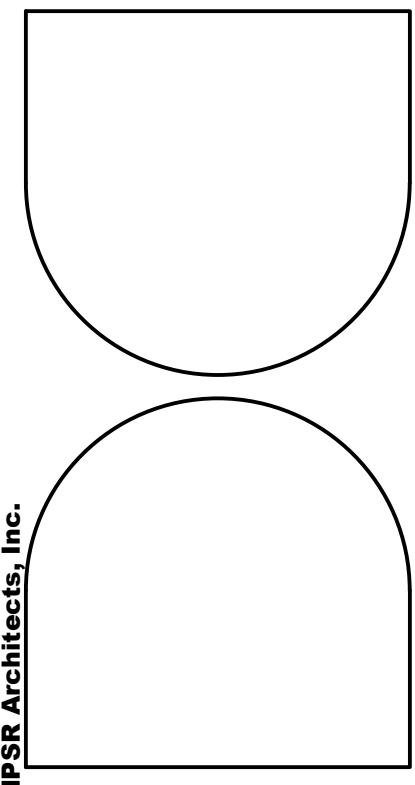
- GENERAL NOTES**
- A. VERIFY EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, AND GRILLES AT JOBSITE.
 - B. CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER.
 - C. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
 - D. LOCATE ALL THERMOSTATS A MINIMUM OF SIX INCHES FROM WALL CORNERS, DOOR FRAMES AND OTHER DEVICES. MOUNT THERMOSTATS AT 48" A.F.F. COORDINATE THE LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
 - E. REFRIGERANT PIPING IS SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
 - F. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL UNITS. REFER TO DETAIL. ALL CONDENSATE DRAIN LINES SHALL BE TYPE L COPPER WITH SOLDERED JOINTS.
-
- KEYED NOTES**
1. EXISTING ROOFTOP UNIT AND ALL ASSOCIATED ITEMS TO REMAIN.
 2. EXISTING EXHAUST FAN AND ALL ASSOCIATED ITEMS TO REMAIN. TEMPORARILY REMOVE AND REINSTALL CONNECTED EXHAUST GRILLES AS REQUIRED FOR ANY CEILING WORK IN THIS ROOM.
 3. EXISTING DUCTWORK AND ALL ASSOCIATED AIR DEVICES TO REMAIN.
 4. REMOVE EXISTING WINDOW UNIT AND ALL ASSOCIATED ITEMS. PATCH WALL AS REQUIRED BY ARCHITECT.
 5. MINI SPLIT INDOOR UNIT MOUNTED HIGH ON WALL. CONNECT REFRIGERANT LINES AND 3/4" DRAIN LINE TO UNIT.
 6. TURN REFRIGERANT LINES DOWN ALONG EXTERIOR OF WALL TO 6" ABOVE GRADE. EXTEND LINES TO CONNECT TO CONDENSING UNIT. PROVIDE WALL PENETRATION BOX, REFER TO DETAIL.
 7. TURN 3/4" CONDENSATE DRAIN LINE DOWN ALONG WALL ADJACENT TO SINK TO BELOW SINK AND THEN TURN TO CONNECT TO TAILPIECE OF SINK. REFER TO DETAIL. VERIFY EXACT LOCATION AND ROUTING WITH ARCHITECTURE.
 8. 4" THICK CONCRETE EQUIPMENT PAD WITH 12" TURNDOWN AT ALL SIDES. PROVIDE WITH #3 REBAR AT 16" ON CENTER.
 9. PIPING IN THESE ROOMS TO BE INSTALLED TIGHT TO EXISTING CEILING THEN ENCLOSED IN ARCHITECTURAL FURRING, REFER TO ARCHITECTURE.



3 ENLARGED PARTIAL FLOOR PLAN - MECHANICAL
Scale: 1/4" = 1'-0"

FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109

WWW.FINCHERENG.COM



606 WEST HERCULES ST.
SUITE 200
LUBBOCK, TX 79401
PH: 806-795-4775
FAX: 806-795-4775
www.npsrpro.com

220 BROADWAY ST.
SUITE 400
HOBBBS, TX 76040
PH: 817-433-4775
FAX: 817-433-4777
www.npsrpro.com

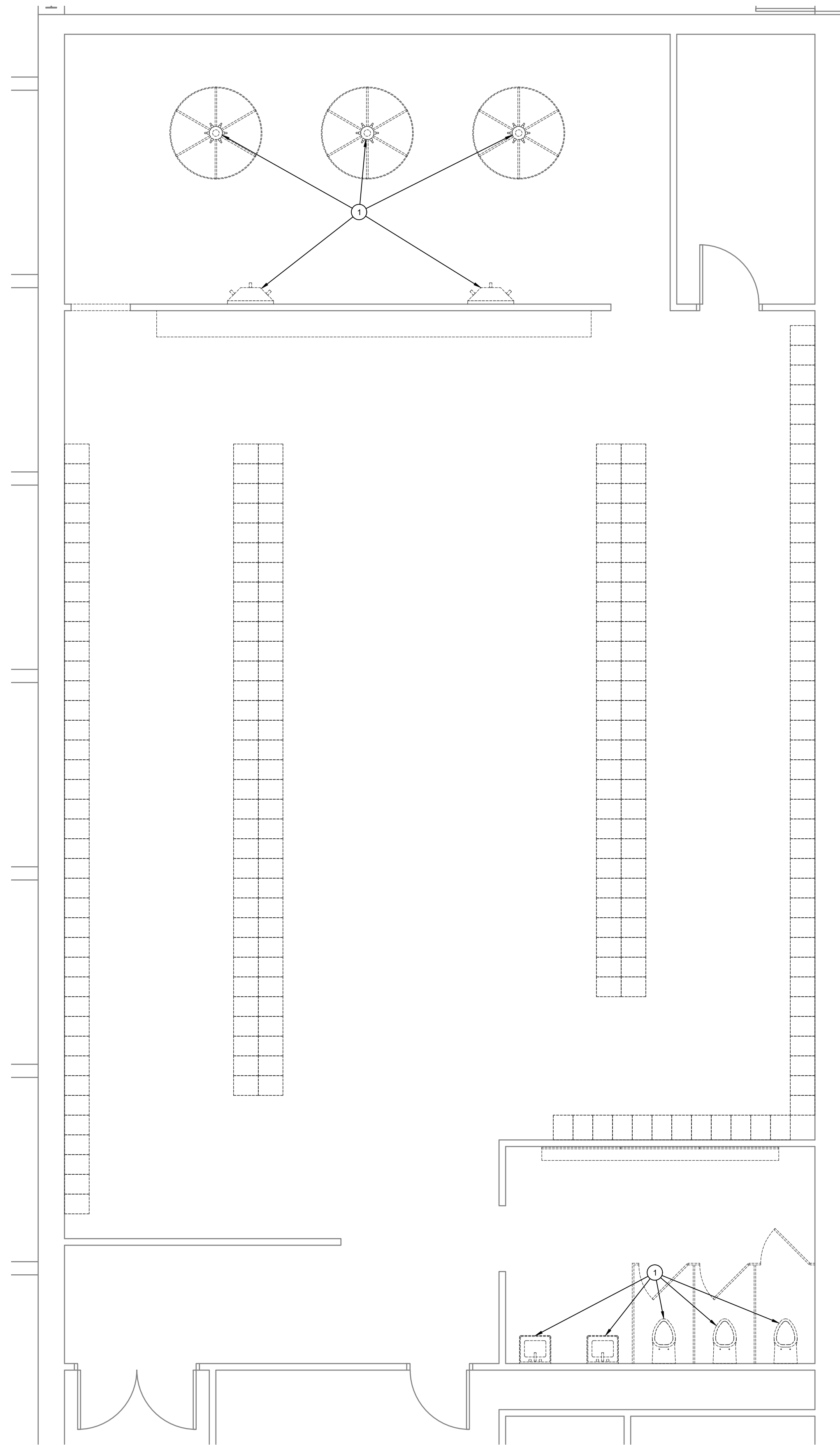
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

DATE	DESCRIPTION
09-30-23	CONSTRUCTION DOCUMENTS

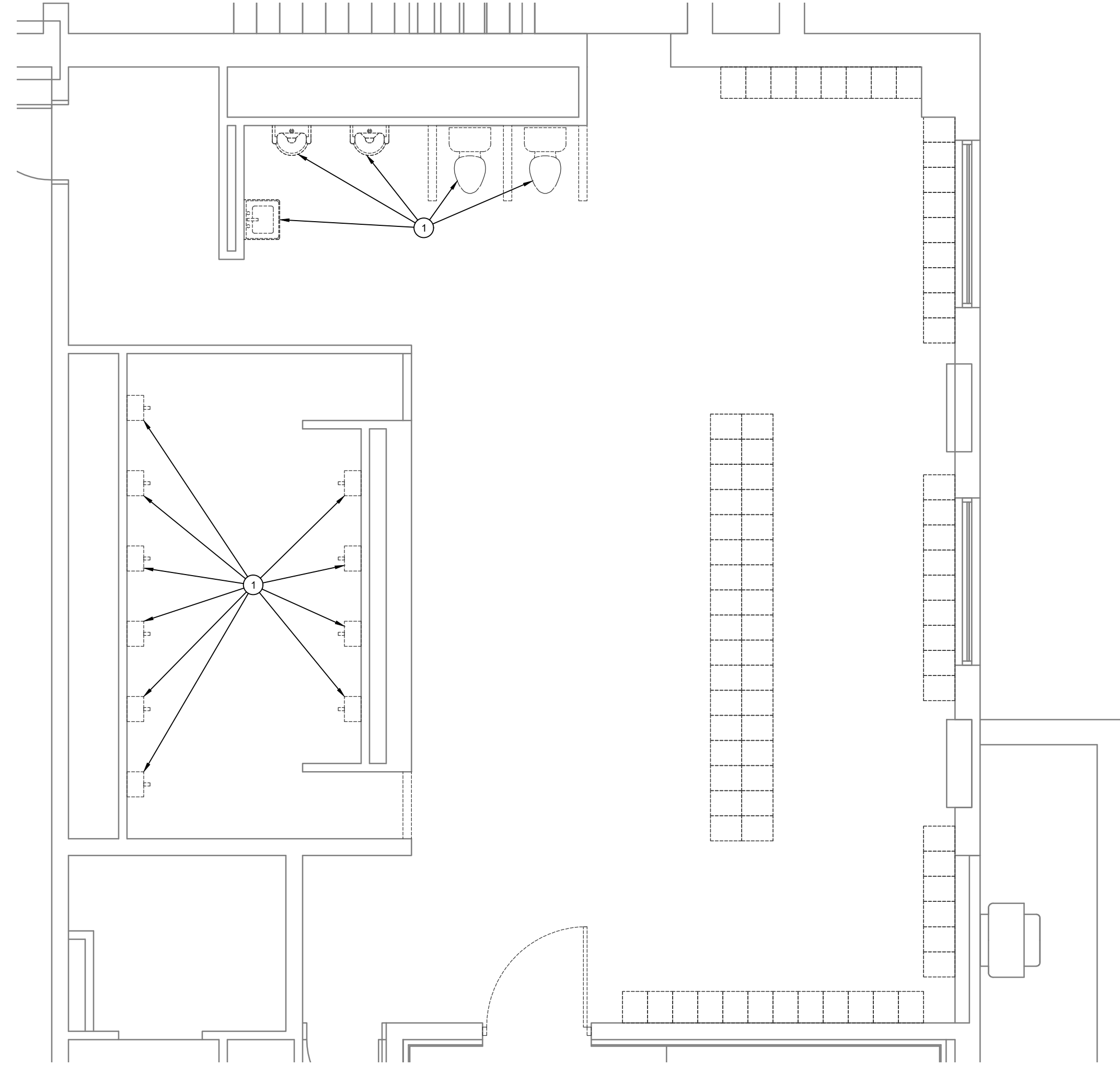
PROJECT NO.	---
DRAWN BY:	JFE
CHKD BY:	JFE
APPROVED BY:	JFE

SHEET TITLE: **M102**
MECHANICAL
SHEET 2 OF 3

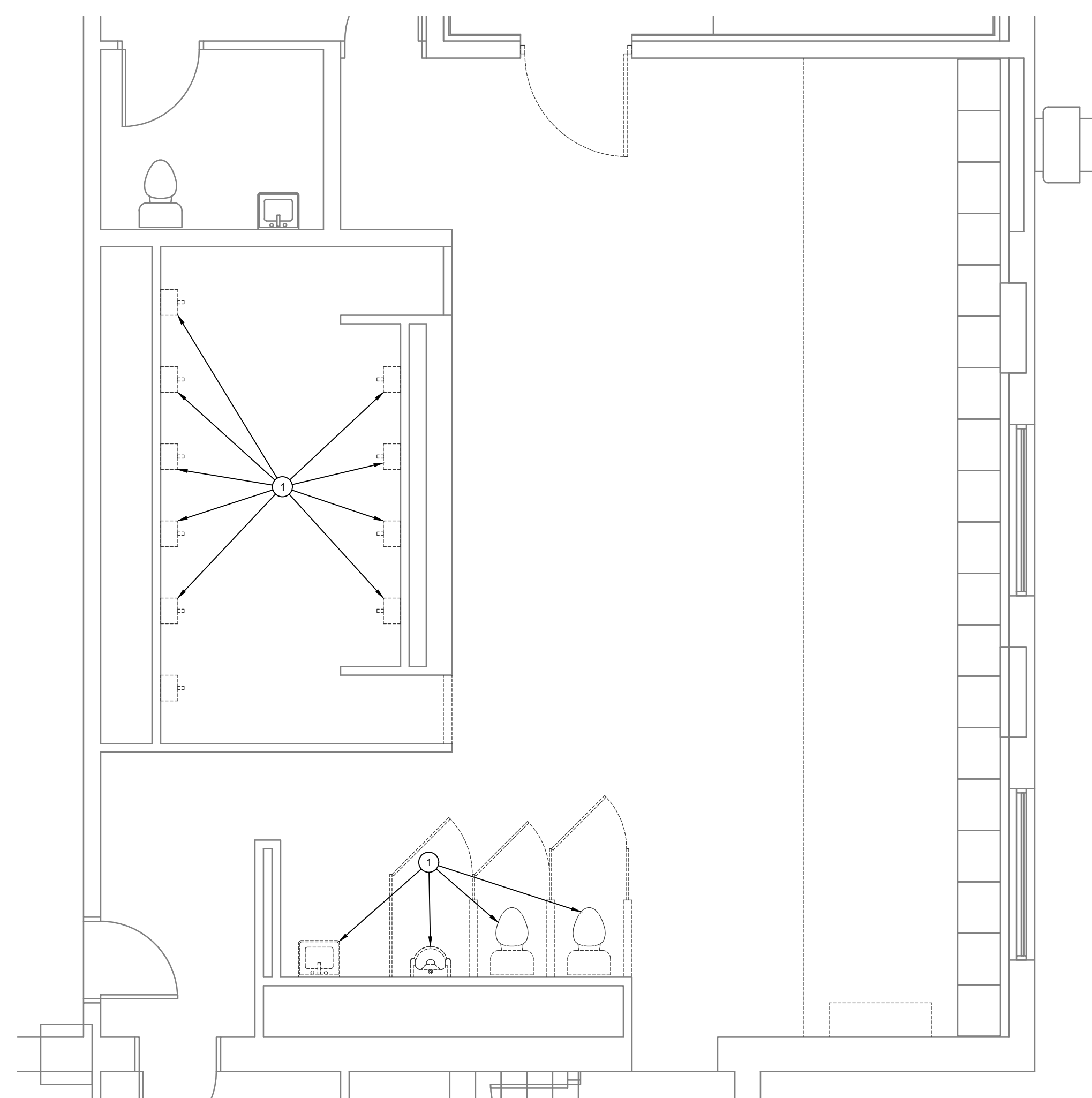
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



1 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - PLUMBING
Scale: 1/4" = 1'-0"



2 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - PLUMBING
Scale: 1/4" = 1'-0"

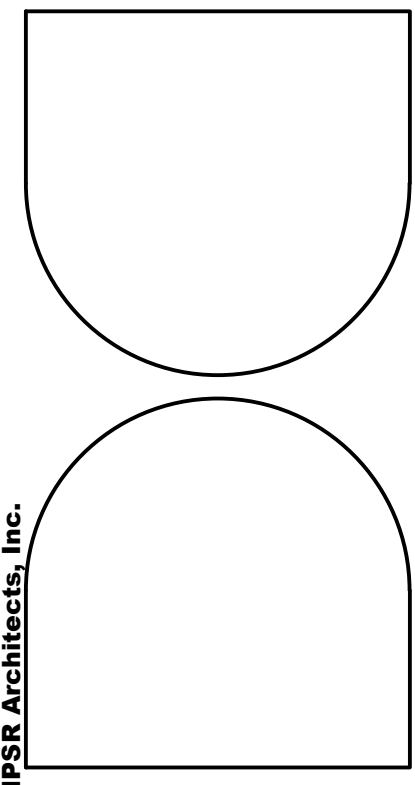


3 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - PLUMBING
Scale: 1/4" = 1'-0"

GENERAL NOTES	
A.	ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
B.	VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND PIPING AT THE JOBSITE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL UTILITIES PRIOR TO BID.
C.	FOR ALL ITEMS SHOWN OR NOTED TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS INCLUDING ALL HANGERS, INSULATION, VALVES, ETC.
KEYED NOTES	
1.	REMOVE EXISTING PLUMBING FIXTURE SHOWN DASHED AND ALL ASSOCIATED ITEMS. REMOVE ALL EXISTING WASTE/SEWER LINES BACK TO BELOW SLAB AND PLUG. REMOVE ALL WATER AND VENT LINES BACK TO ACTIVE MAINS AND CAP.



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM



606 WEST PIERCE ST.
LUBBOCK, TX 79401
PH: 806-775-8853, 4775
FAX: 806-775-8855, 4827
220 BROADWAY ST.
SOUTH PLANA 88240
PH: 575-433-4775
FAX: 575-433-4777
www.npsr.pro

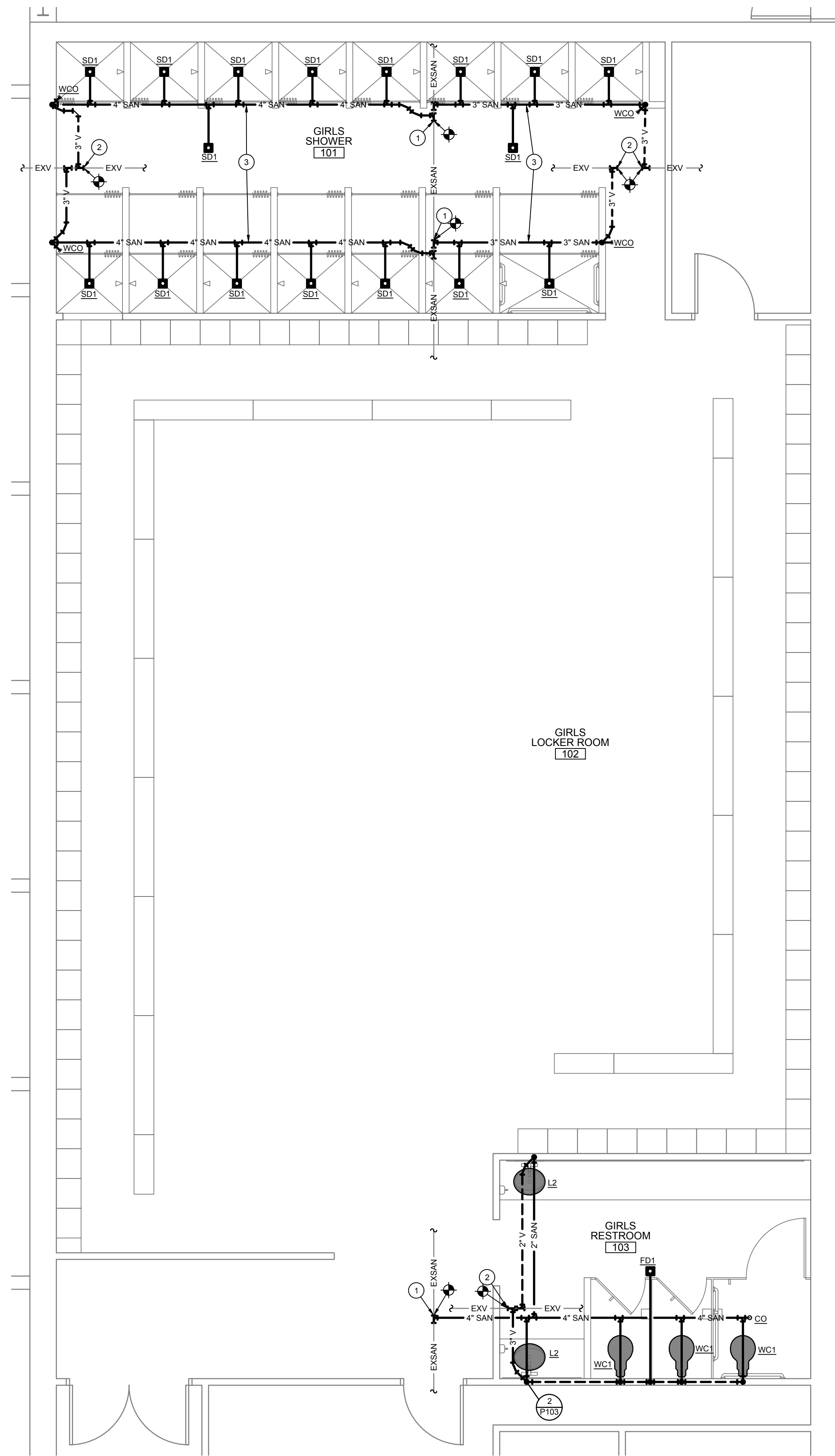
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

PROJECT NO.	DATE	DESCRIPTION
09-30-23	09-30-23	CONSTRUCTION DOCUMENTS

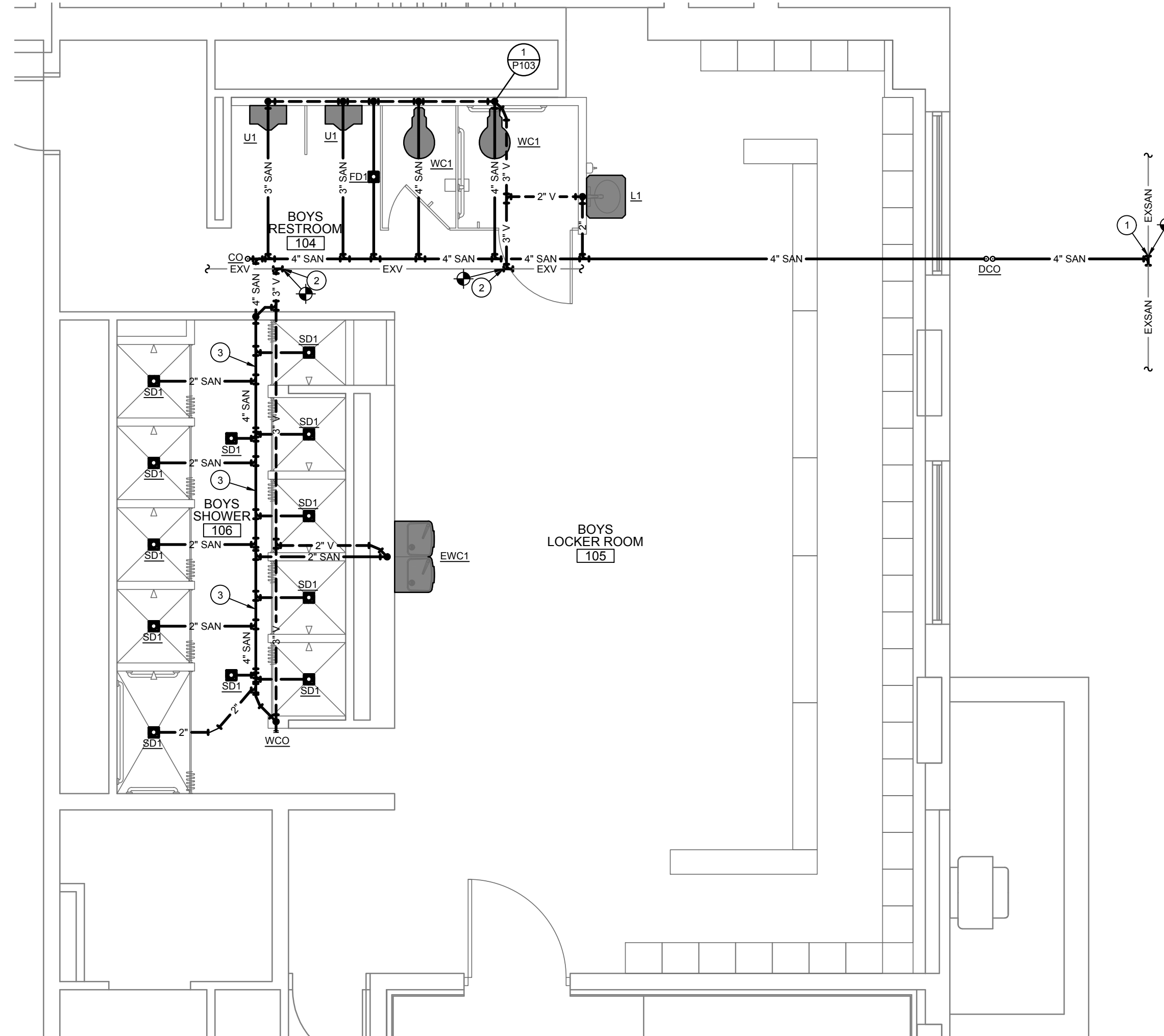
PROJECT NO.	_____
DRN BY:	_____
CKD BY:	_____
APPROV BY:	_____

SHEET TITLE: **PD101**
PLUMBING
SHEET 1 OF 5

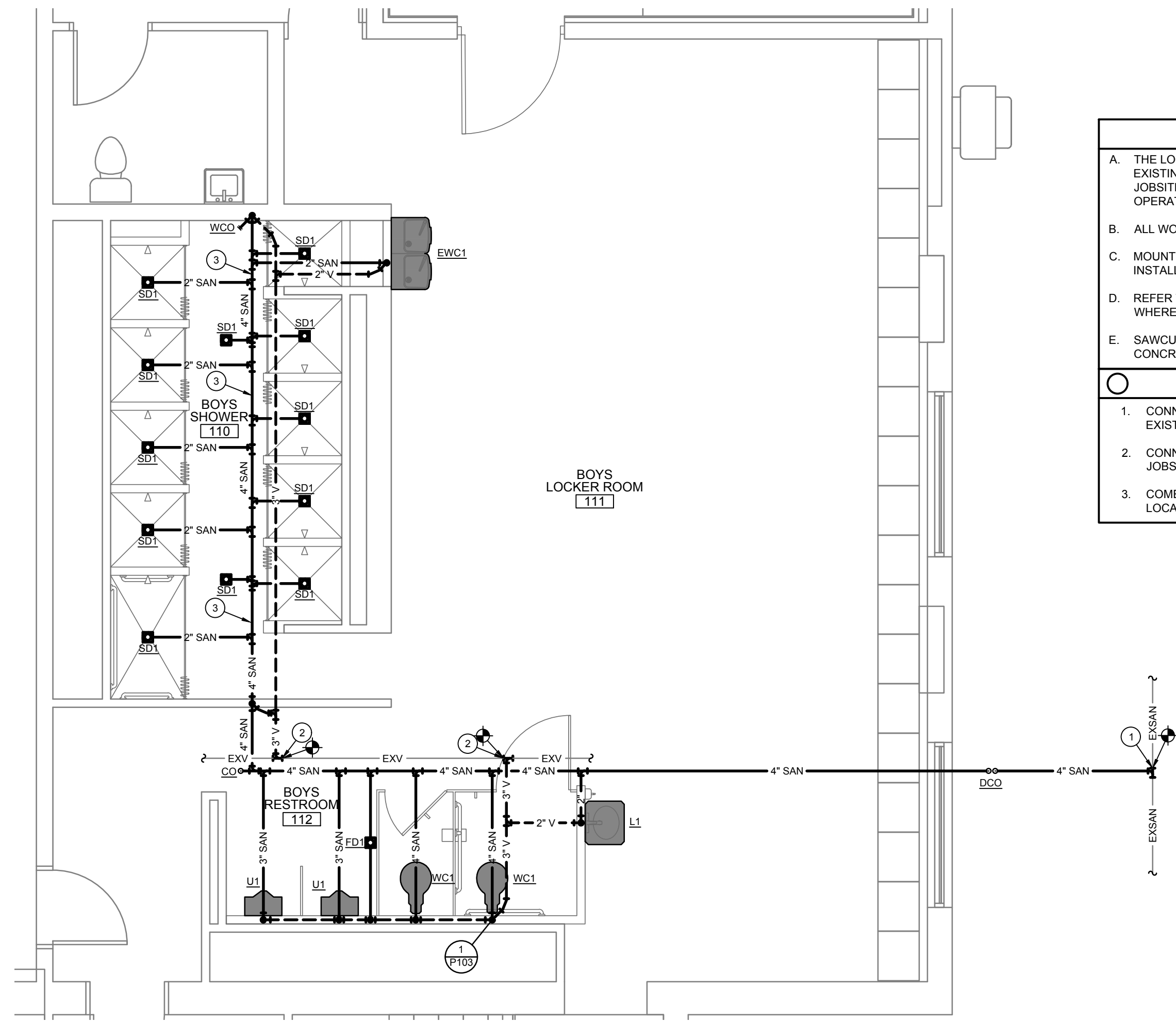
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



1 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - SEWER, WASTE, & VENT
Scale: 1/4" = 1'-0"



2 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - SEWER, WASTE, & VENT
Scale: 1/4" = 1'-0"



3 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - SEWER, WASTE, & VENT
Scale: 1/4" = 1'-0"

- GENERAL NOTES**
- A. THE LOCATIONS OF EXISTING PLUMBING LINES SHOWN ARE BASED ON MINIMAL AVAILABLE SITE AND EXISTING INFORMATION. VERIFY EXACT LOCATION OF ALL NEW AND EXISTING UTILITIES AND PIPING AT THE JOBSITE WITH SITE CONDITIONS PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - B. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.
 - C. MOUNTING HEIGHT OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
 - D. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL FIXTURES WHERE LINE SIZES ARE NOT INDICATED ON FLOOR PLAN.
 - E. SAWCUT ALL CONCRETE SLAB AS REQUIRED TO INSTALL NEW PLUMBING LINES. PATCH AND REPAIR ALL CONCRETE SLAB AS REQUIRED TO RETURN TO EXISTING CONDITIONS AS DIRECTED BY ARCHITECT.
- KEYED NOTES**
- 1. CONNECT NEW SEWER LINE TO EXISTING SEWER LINE. VERIFY EXACT LOCATION AND DEPTH OF EXISTING LINE AT JOBSITE PRIOR TO BID AND ADJUST ROUTING OF NEW PIPING AS REQUIRED.
 - 2. CONNECT NEW VENT LINE TO EXISTING VENT LINE. VERIFY EXACT LOCATION OF EXISTING LINE AT JOBSITE PRIOR TO BID AND ADJUST ROUTING OF NEW PIPING AS REQUIRED.
 - 3. COMBINATION WASTE AND VENT SYSTEM FOR ALL SHOWER DRAINS. INSTALL PER REQUIREMENTS OF LOCAL PLUMBING CODE.

JUSTIN M. FINCHER
NEW MEXICO
18826
PROFESSIONAL ENGINEER
5-30-2023

FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

NPSR
ARCHITECTS, Inc.

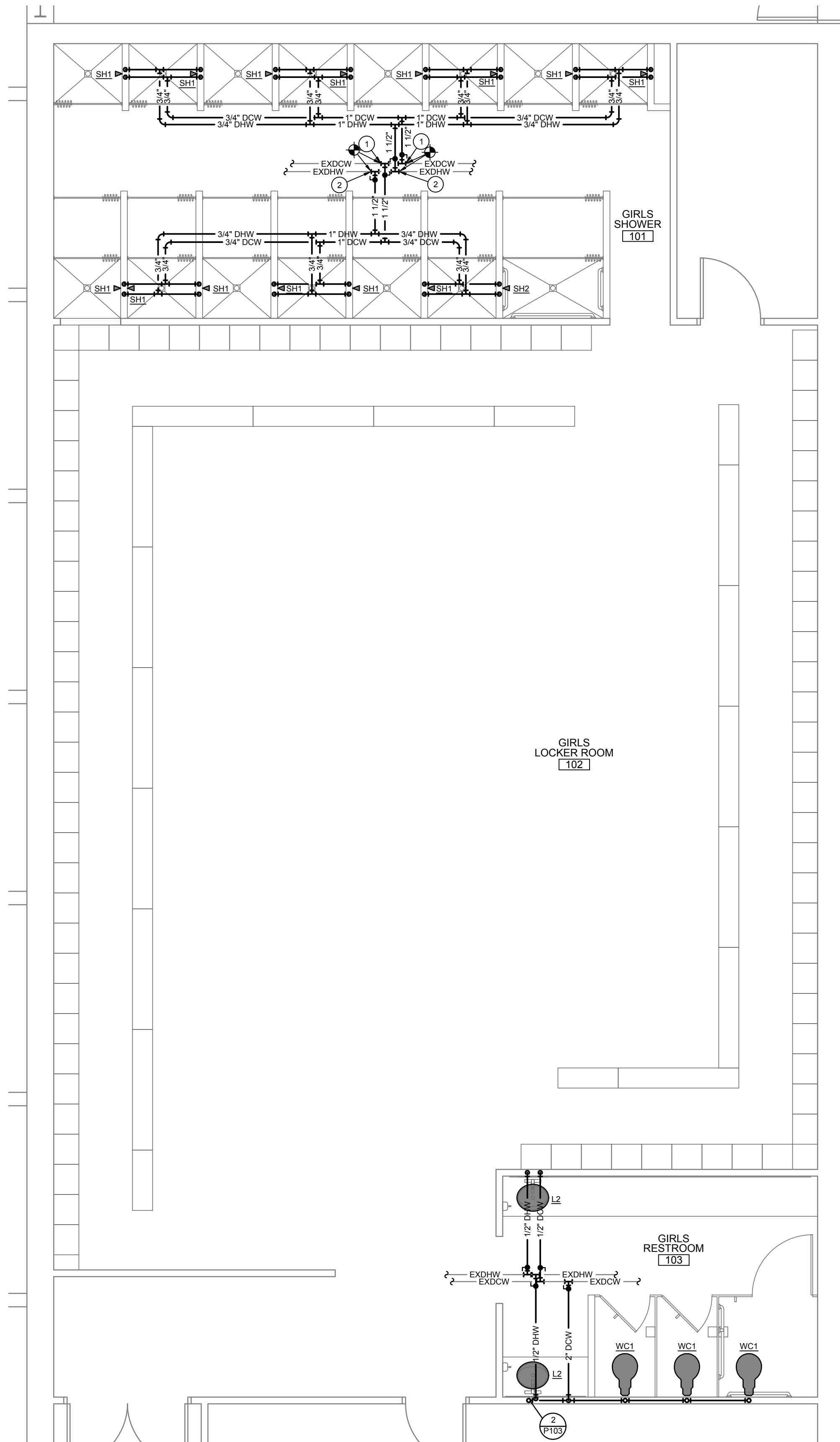
606 WEST PIERCE ST.
PO BOX 230
LUBBOCK, TX 79402
PH: 806-775-8854, 4775
FAX: 806-775-8854-4827

220 BROADWAY ST.
SUITE 400
HOBBBS, TX 79401
PH: 806-775-4334, 4775
FAX: 806-775-4334, 4777
www.npsr.pro

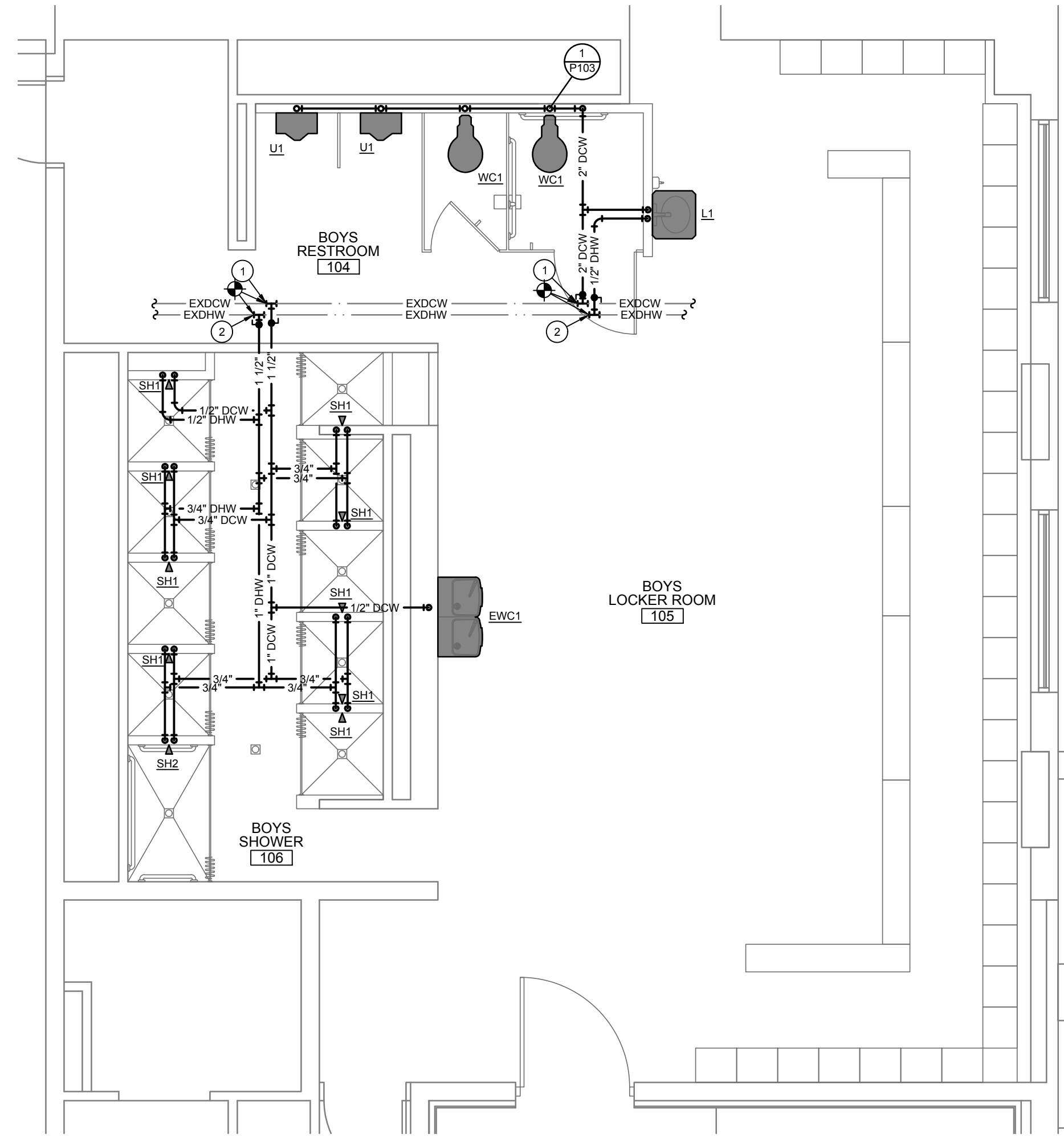
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBBS MUNICIPAL SCHOOLS
HOBBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

DATE	DESCRIPTION
09-30-23	CONSTRUCTION DOCUMENTS

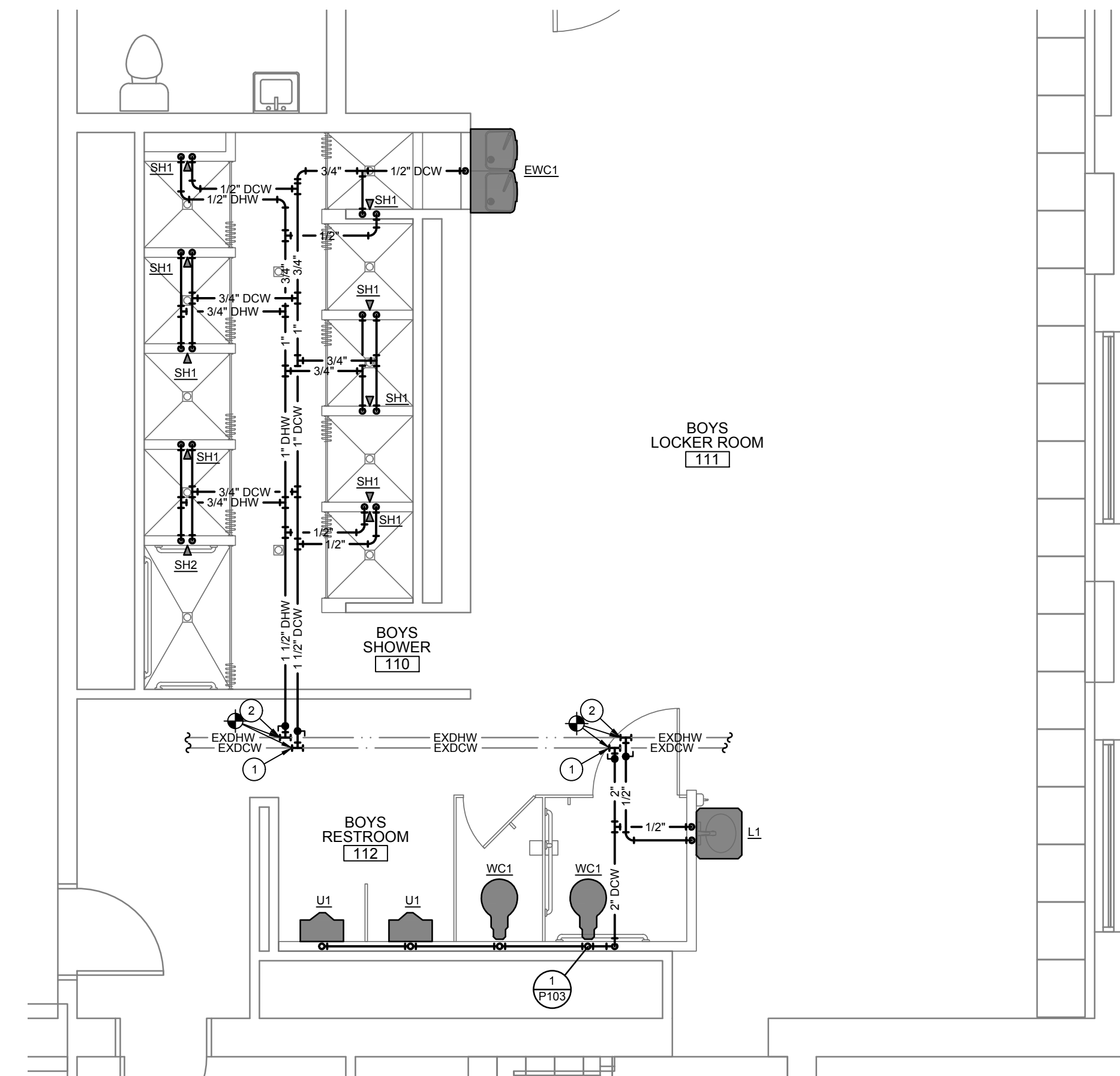
PROJECT NO.	FE
DRAN BY:	TFE
CKD BY:	TFE
APPROV BY:	TFE



1 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - WATER
Scale: 1/4" = 1'-0"



2 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - WATER
Scale: 1/4" = 1'-0"

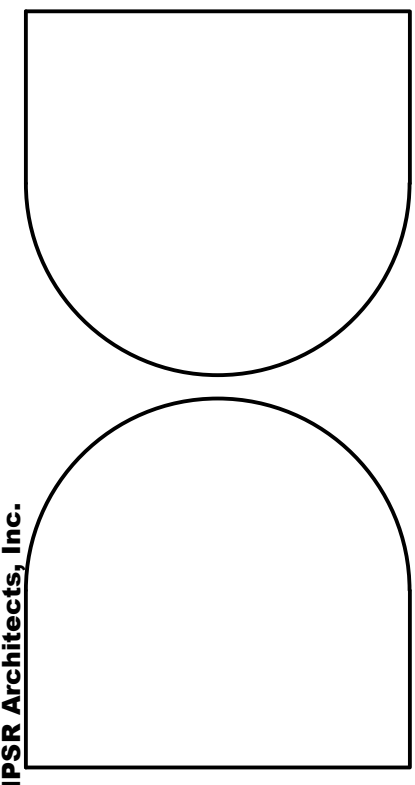


3 ENLARGED PARTIAL FLOOR PLAN - PLUMBING - WATER
Scale: 1/4" = 1'-0"

- | GENERAL NOTES | |
|---------------|---|
| A. | THE LOCATIONS OF EXISTING PLUMBING LINES SHOWN ARE BASED ON MINIMAL AVAILABLE SITE AND EXISTING INFORMATION. VERIFY EXACT LOCATION OF ALL NEW AND EXISTING UTILITIES AND PIPING AT THE JOBSITE WITH SITE CONDITIONS PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE AND OPERATIONAL SYSTEM. |
| B. | MOUNTING HEIGHT OF ALL PLUMBING FIXTURES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION. |
| C. | REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR RUNOUT LINE SIZES TO INDIVIDUAL FIXTURES WHERE LINE SIZES ARE NOT INDICATED ON FLOOR PLAN. |
| D. | PROVIDE POINT-OF-USE MIXING VALVE BELOW ALL LAVATORIES AND HAND SINKS AND SET TO PROVIDE MAXIMUM OF 100°F WATER TO HOT WATER SIDE OF ALL FAUCETS. VERIFY MOUNTING LOCATION OF MIXING VALVE WITH OWNER AND WITH ADA CLEARANCE. MIXING VALVE SHALL BE EQUAL TO BRADLEY S59. |
| E. | PROVIDE CEILING MOUNTED ACCESS DOORS TO ACCESS ANY VALVES THAT ARE INSTALLED ABOVE INACCESSIBLE CEILINGS. |
-
- | KEYED NOTES | |
|-------------|--|
| 1. | CONNECT NEW DCW LINE TO EXISTING DCW LINE. VERIFY EXACT LOCATION AND SIZE OF EXISTING LINE AT JOBSITE PRIOR TO BID AND ADJUST ROUTING OF NEW PIPING AS REQUIRED. |
| 2. | CONNECT NEW DHW LINE TO EXISTING DHW LINE. VERIFY EXACT LOCATION AND SIZE OF EXISTING LINE AT JOBSITE PRIOR TO BID AND ADJUST ROUTING OF NEW PIPING AS REQUIRED. |



FINCHER ENGINEERING, LLC
 TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109
 WWW.FINCHERENG.COM



606 WEST PIERCE ST.
 SUITE 200
 HOBBBS, NEW MEXICO 88240
 PH: 575.885.4775
 FAX: 575.885.4827

220 BROADWAY ST.
 SUITE 400
 HOBBBS, NEW MEXICO 88240
 PH: 575.433.4775
 FAX: 575.433.4777
 www.npsr.pro

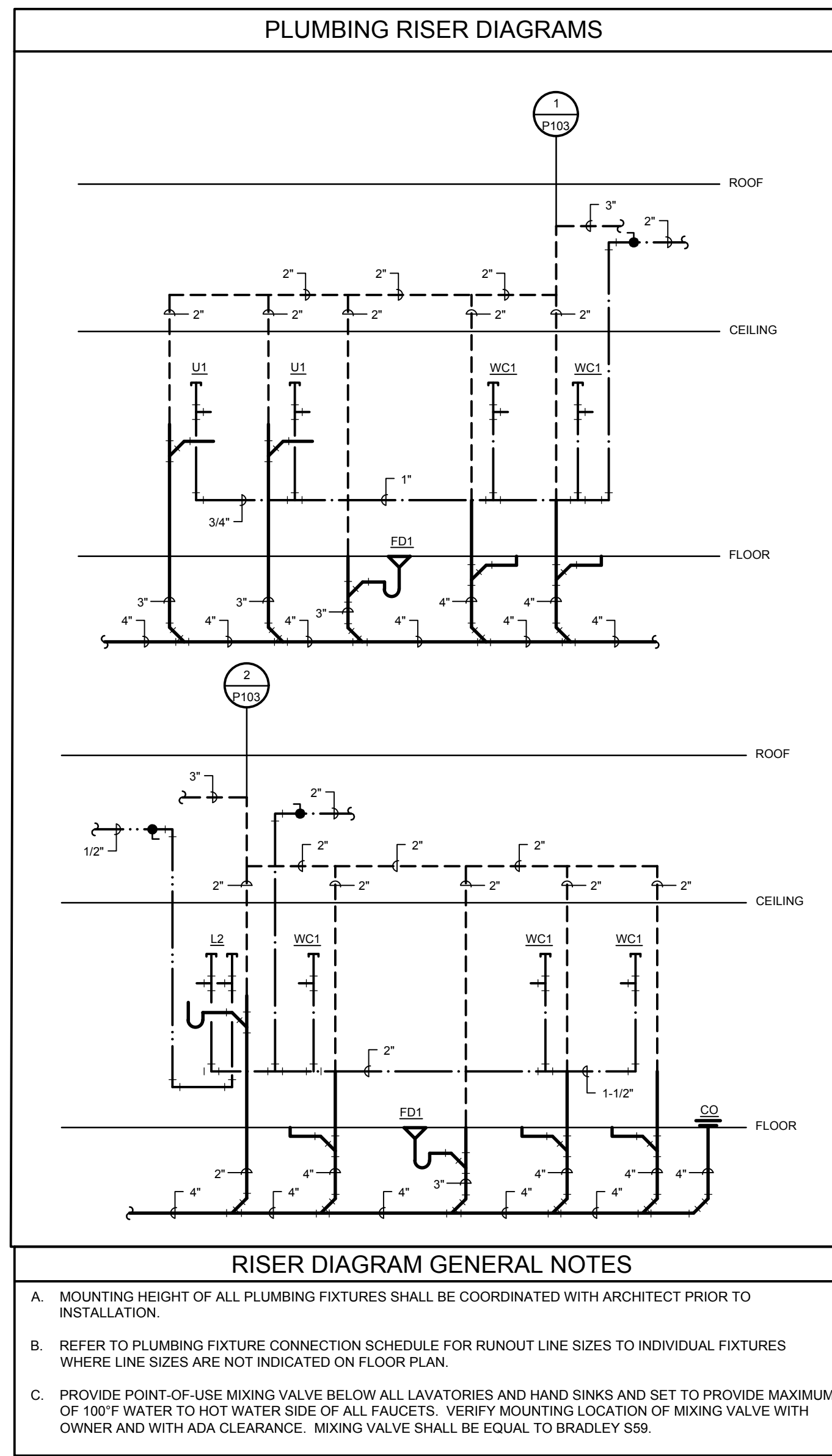
LOCKER ROOM RENOVATIONS
 FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
 HOBBS, NEW MEXICO
 1400 E. SCHARBAUER ST.

DATE	DESCRIPTION
09-30-23	CONSTRUCTION DOCUMENTS

PROJECT NO.	FE
DRAWN BY	TFH
CHKD BY	TFH
APPROVED BY	TFH

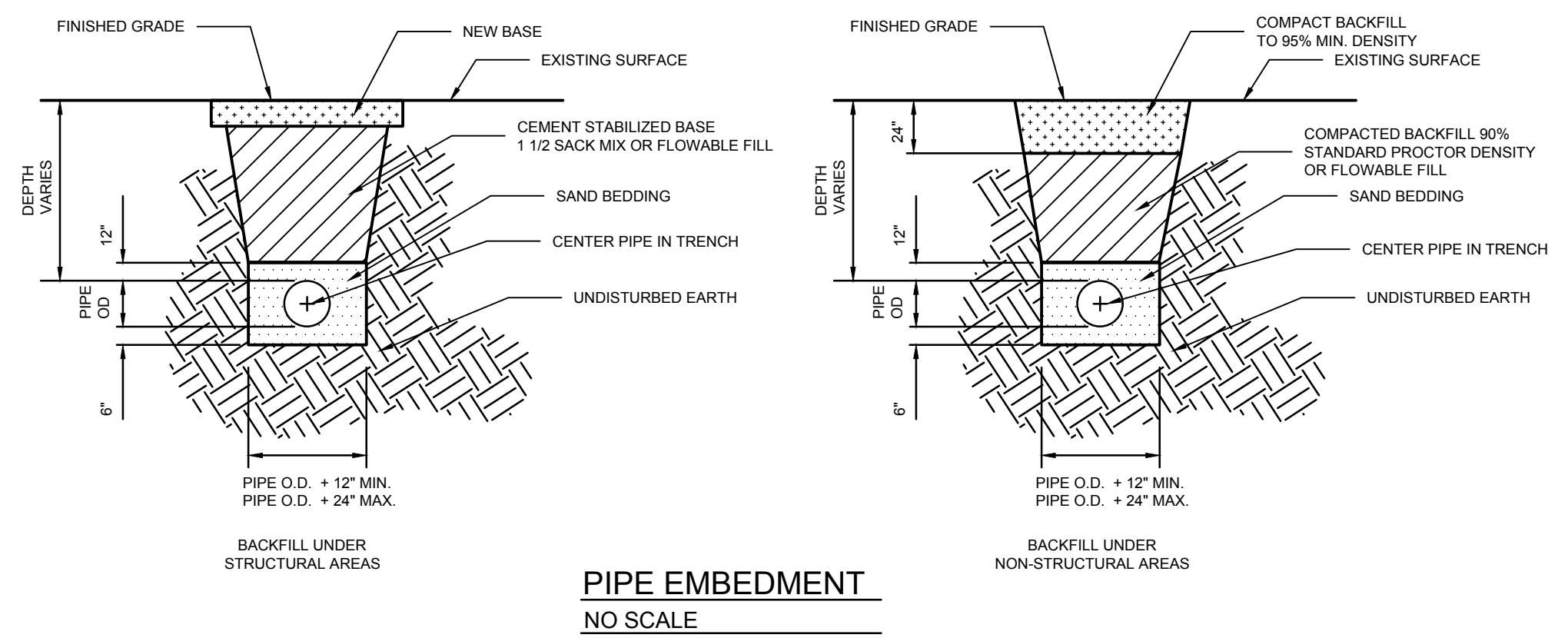
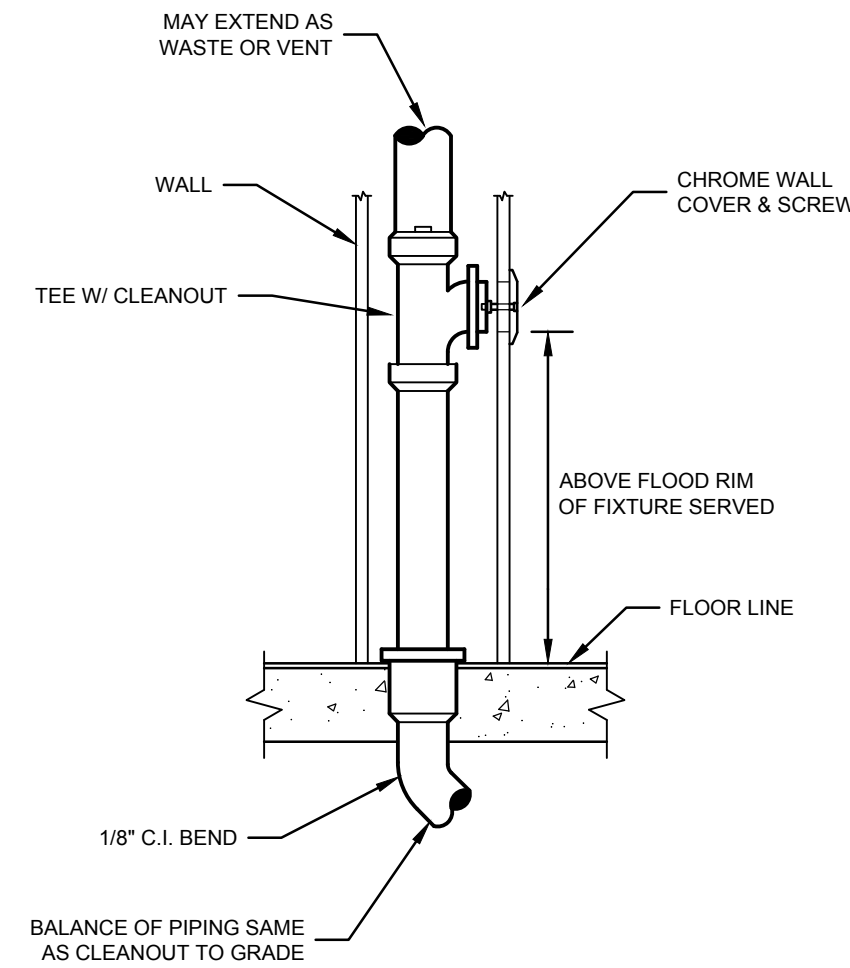
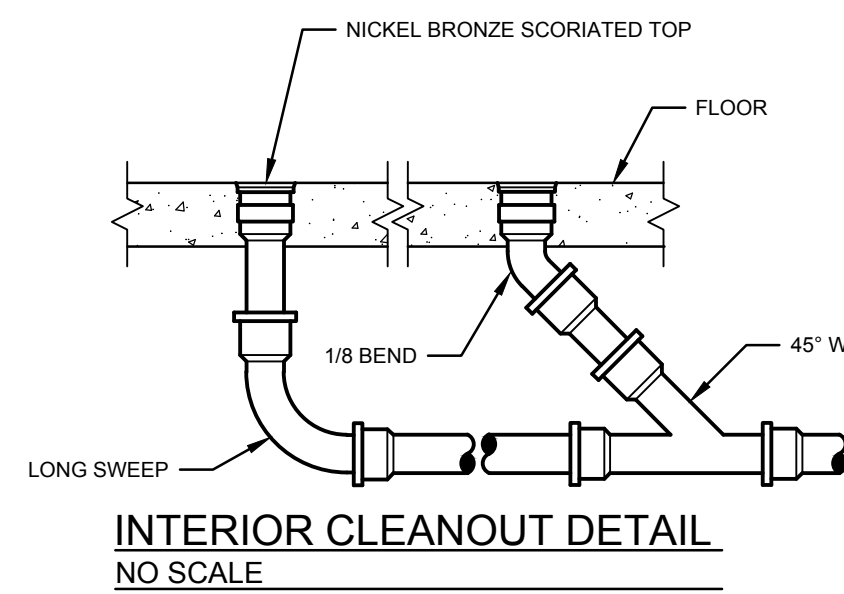
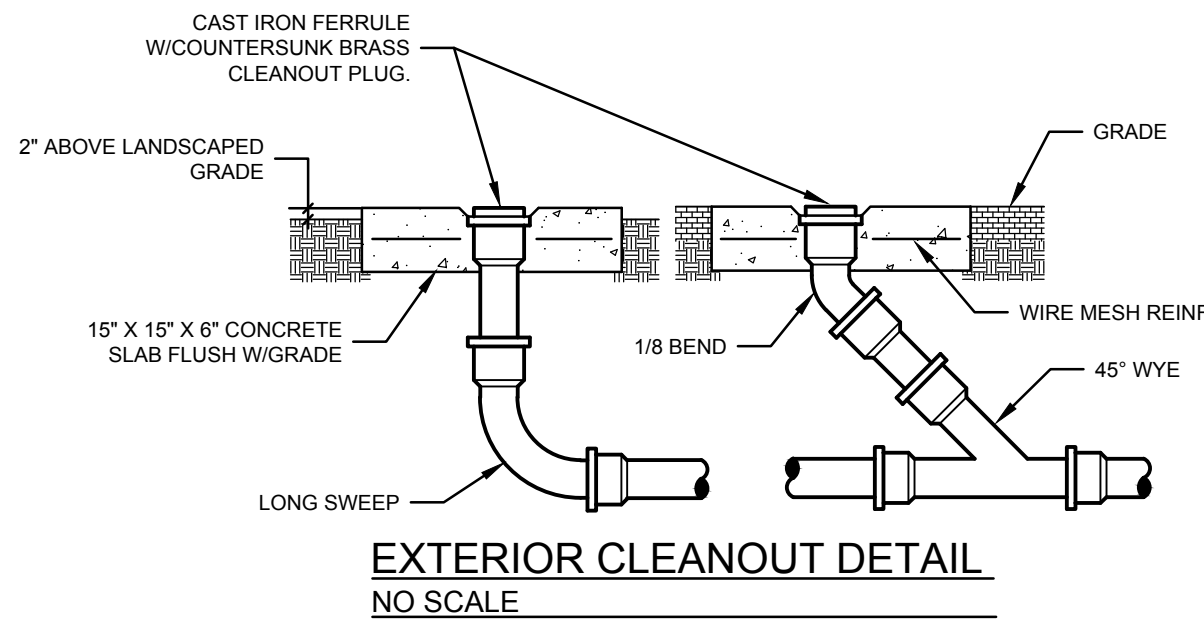
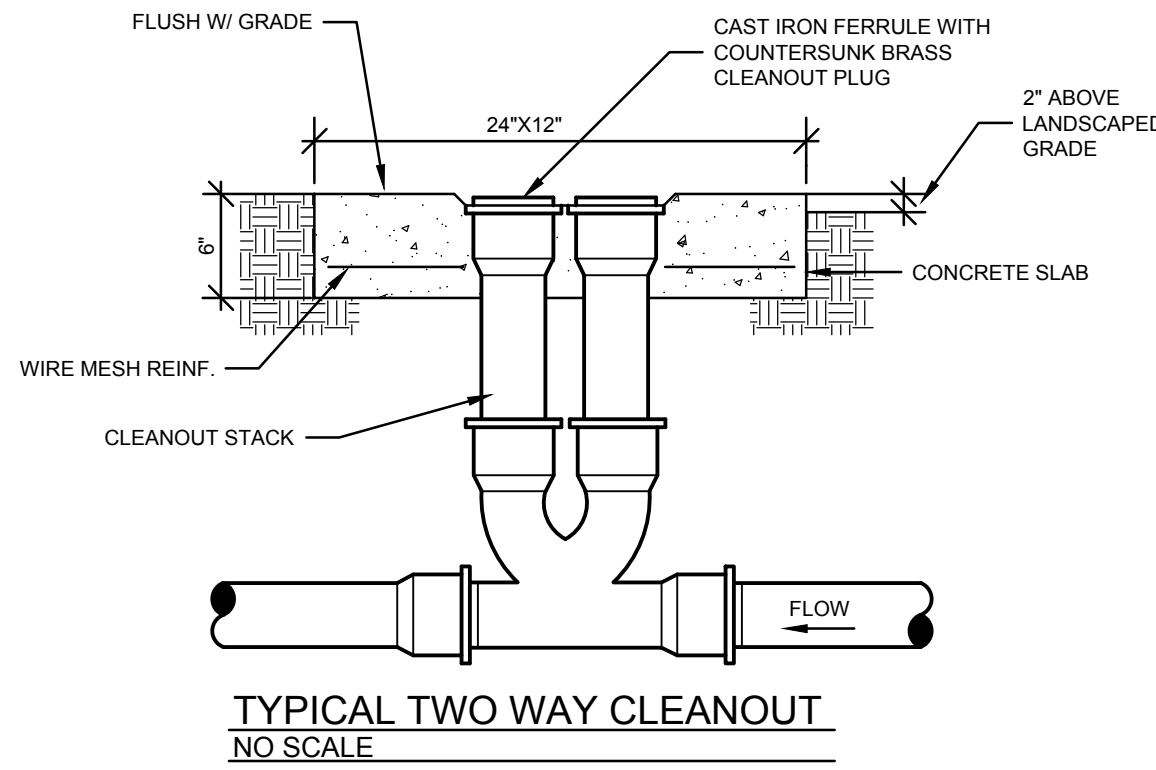
SHEET TITLE: **P102**
PLUMBING
 SHEET 3 OF 5

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

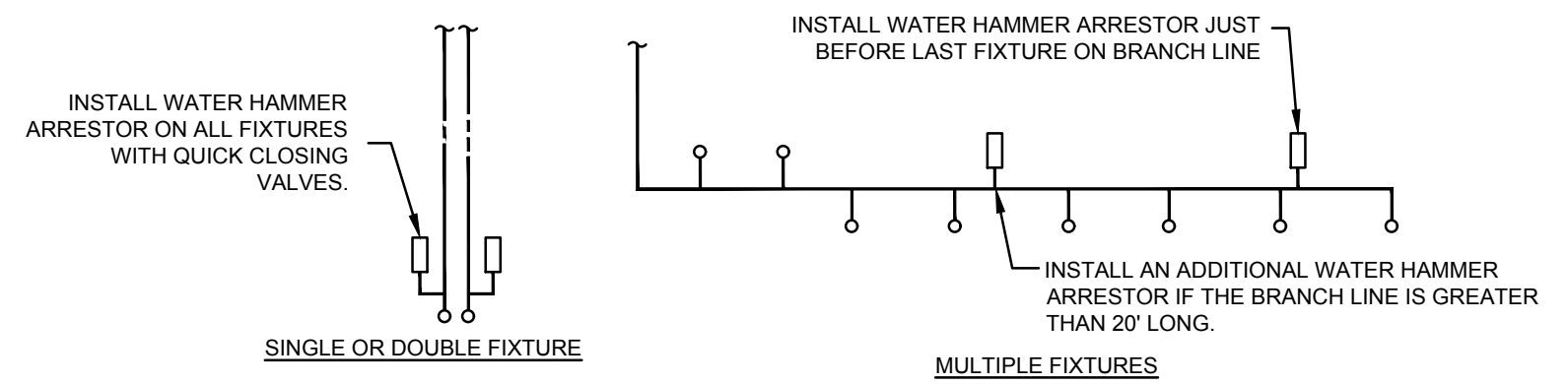


PLUMBING LEGEND

SYMBOL	DESCRIPTION
	SANITARY SOIL LINE (SAN)
	SANITARY VENT LINE (V)
	COLD WATER LINE (DCW)
	HOT WATER LINE (DHW)
	HOT WATER RETURN LINE (DHC)
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
AD	ACCESS DOOR
SAN	SANITARY SOIL
V	SANITARY VENT
DHC	DOMESTIC HOT WATER CIRCULATING
EXDCW	EXISTING DOMESTIC COLD WATER
EXDHW	EXISTING DOMESTIC HOT WATER
EXDHC	EXISTING DOMESTIC HOT WATER CIRCULATING
EXSAN	EXISTING SANITARY SOIL
EXV	EXISTING SANITARY VENT
A.F.F.	ABOVE FINISHED FLOOR
B.F.C.	BELOW FINISHED CEILING
CO	CLEANOUT
DCO	DOUBLE CLEANOUT
	BALL VALVE
	ELBOW TURNED DOWN
	ELBOW TURNED UP
	FLOW IN DIRECTION OF ARROW
	VALVE IN BOX
	GAS COCK
	CONNECT TO EXISTING



- ### PIPE EMBEDMENT NOTES
- THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMMETRICAL ABOUT THE CENTER-LINE OF THE EXCAVATION.
 - ANY CONCRETE PAVING SHALL BE SAW CUT 6" WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
 - IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR FLEXIBLE BASE MATERIAL.
 - ROAD BASE AND SURFACE MATERIALS SHALL BE REPLACED IN KIND OF EQUAL THICKNESS WITH MINIMUM BASE THICKNESS OF 8".
 - INSTALL DETECTOR TAPE AND TRACE WIRE PER SPECIFICATION.



PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE	WATER SUPPLY FIXTURE UNIT (WSFU)	
	COLD	HOT
VALVE WATER CLOSET	5	--
URINAL	4	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3

COMMENTS:
 1. WATER HAMMER ARRESTERS SHALL BE HAVE PISTON AND O-RING CONSTRUCTION WITH PDI #WH-201, ASSE # 1010 AND ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. SIZE THE UNITS AS SHOWN PER THE TABLES SHOWN ABOVE.

WATER HAMMER ARRESTER DETAIL

NO SCALE

FINCHER ENGINEERING, LLC
 TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109

WWW.FINCHERENG.COM

NPSR
 ARCHITECTS, Inc.

606 WEST PIERCE ST.
 SUITE 200
 LUBBOCK, TX 79401
 PH: 806-775-8855, 4775
 PH: 806-775-8855, 4827
 FAX: 575-885-4827

220 BROADWAY ST.
 SUITE 400
 HOBBBS, TX 79401
 PH: 806-775-4333, 4775
 PH: 806-775-4333, 4777
 FAX: 575-433-4777
 www.npsr.pro

LOCKER ROOM RENOVATIONS
 FOR
TASKER ARENA
HOBBBS MUNICIPAL SCHOOLS
 HOBBBS, NEW MEXICO

1400 E. SCHARBAUER ST.

DATE	DESCRIPTION

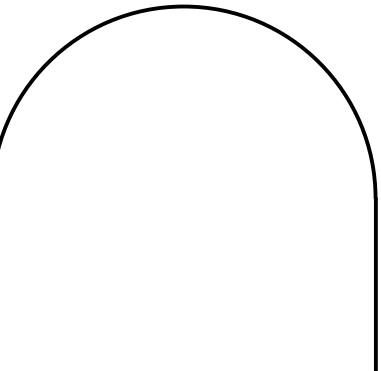
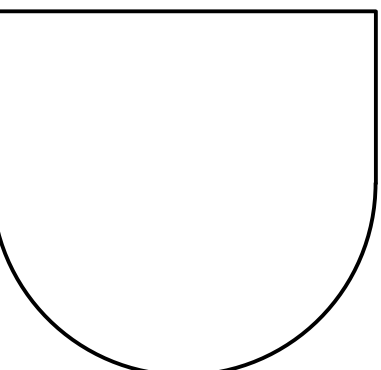
PROJECT NO.	FE
DRAWN BY:	TFE
CHECKED BY:	TFE
APPROVED BY:	TFE

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

PLUMBING SPECIFICATIONS	
I. GENERAL	III. EXECUTION
A. NOTE:	A. INSTALLATION OF PIPING SYSTEMS:
1. Conform with applicable provisions of the General Conditions, Special Conditions, General Requirements, and Supplemental Conditions.	1. Drain lines and Sanitary waste: Grade down toward the sewer connection at a uniform slope of 1/4" per foot to serve individual fixtures or not less than 1/8" per foot to serve multiple stacks or outlets. Slope shall be greater where possible.
B. SUBMITTALS:	2. Vents: Grade up to the vent through the roof. Terminate not less than 12" above the roof.
1. Submit manufacturer's data on all materials.	3. Water Lines: Grade to established low points and provide valved drains to completely drain the system.
C. SCOPE:	4. Isolation Valves: The water supplies to each group of fixtures shall have an isolating valve in each line serving the riser. Where these valves are not accessible thru removable ceilings or otherwise, provide access doors in the ceiling or chase.
1. This section of the specifications requires the furnishing and installation of all equipment, labor, materials, transportation, tools and appliances and in performing all operations in connection with the installation of the plumbing systems.	B. FABRICATION OF PIPE JOINTS:
D. UTILITY SERVICES:	1. Threaded Pipes: Ream and deburr pipe after it is cut and before it is threaded. Stand each pipe on one end and hammer to remove all foreign material. Full cut threads, but not more than 3 pipe threads shall remain exposed when joint is completed. Make up joints with graphite and oil or an approved graphite compound applied to male threads only. Caulking of threaded joints to stop or prevent leaks is prohibited.
1. Water Service: Connect to the existing water service line at the site. Refer to the drawings for details. Provide a valve and valve box at the connection point.	2. Copper Tubing with soldered joints: Cut tubing square, ream and deburr. Clean insides of fittings and outsides of tubing with sand cloth before assembly. Exercise care to prevent annealing of fittings and hard drawn tubing. Make all joints with high temperature solid string or wire solder, 95% tin, 5% antimony, using non-corrosive paste flux of the proper type for all copper tubing. Low temperature solder such as 50/50 or 40/60 will not be permitted.
2. Sanitary Sewer: Extend and connect to the existing sewer at the site as shown on the drawings.	3. Copper Tubing with press joints:
3. It is the responsibility of the Contractor to provide all required components and pay all required fees as required by local utility company to provide Owner with a complete and operational system.	a) Copper tube ends shall be cut square. The inside of the tube end shall be reamed to the full inside diameter of the tube and the outside of the tube end chamfered to remove any outside burrs. The outside of the tube end shall be cleaned with a clean cotton cloth to remove grease oil or dirt.
II. PRODUCTS	b) Fittings shall be inspected to make sure the sealing element is properly seated into the fitting. The sealing element is pre lubricated with a food grade lubricant. No field lubrication shall be applied to the sealing element.
A. MATERIALS:	c) Copper tube ends shall be inserted into the fitting to the full insertion depth of the fitting cup. A mark shall be made on the tube wall at the interface of the tube and fitting. Always insure the tube is fully inserted into the fitting prior to pressing the joint.
1. Sanitary Soil, Waste and Drain Lines: PVC-DWV Plastic Sch. 40 Solid Wall pipe and fittings conforming to ASTM D-2665-68, assembled with solvent cement conforming to ASTM D-2564-67.	d) Always make sure the appropriately sized jaw or ring and actuator is selected for the joint being pressed. The Ridged XL Ring Kit shall be used to press 2-1/2" thru 4" bronze fittings. A Ridged XLC Ring Kit shall be used to press 2-1/2" thru 4" copper fittings.
2. Sanitary Vent Lines: PVC-DWV Plastic pipe and fittings conforming to ASTM D-2665-68, assembled with solvent cement conforming to ASTM D-2564-67.	e) Installers shall attend a Viega installation training class prior to installation.
3. Domestic Water Lines (Hot, Cold and Recirculating): All interior water lines shall be Type L hard drawn copper tubing. Copper tubing shall be assembled using solder-joint fittings or pressure seal joint fittings equal to Viega ProPress.	4. Solvent Weld Plastic Joints: Solvent welded according to manufacturers instructions.
4. Interior Cleanouts: Cleanouts shall be provided at the bottom of each stack, at each change in direction, and in each horizontal run at intervals not exceeding 50 feet in all interior soil, waste, and drain lines. All cleanouts shall be the same size as the line served up to 4" size and shall be 4" for all larger lines.	C. REPAIR OF LEAKS:
5. Exterior Cleanouts: Provide and install cleanouts in exterior sewer lines where shown or as required by ordinance but not greater than 100 ft. apart. Cleanouts shall consist of a concrete encased special fitting with sewer pipes extending therefrom upward, terminating in a concrete slab. A brass countersunk cleanout ferrule shall be set on this slab in such manner as to be flush with finished grade and to provide access, through its cover, to the cleanout. Cleanouts shall be the same size as the sewer, up to 6" in size, and 4" on 6" and larger sizes.	1. All leaks in piping systems shall be corrected as follows:
6. Air Chambers: Air chambers of Type L copper, not less than 12" long and no smaller than the supply pipe, shall be provided and installed in each water supply to each and every fixture, outlet, item of equipment, etc. The length and/or the diameter of these air chambers shall be greater where required to eliminate water hammer. PDI shock absorbers may be used if sized in accordance with PDI recommendations.	a) Repair leaks in solder or press joints by remaking the joint; no soldering or brazing over existing joints will be permitted.
7. Vacuum Breakers: On each water supply line serving a plumbing fixture, item of equipment, or other device which has a water supply below the rim of the fixture, or which has a threaded or tubing stop, provide and install an approved vacuum breaker. These vacuum breakers shall be designed to prevent any possible backflow through them. Where these are installed in chrome plated lines, they shall be chrome plated to match.	b) Repair leaks in screwed joints by tightening the joint; remake the joint if the tightening fails to stop the leak.
B. VALVES:	c) Repair leaks in PVC pipe by remaking the joint.
1. All valves must be lead-free according to Federal Government S.3874.	2. When any defect is repaired, retest that section of the system.
2. Swing Check Valves: 2" and smaller, all bronze screwed, 2-1/2" and larger, iron body, flanged, bronze trimmed.	D. INSULATION:
3. Ball Valves: Bronze threaded body, chrome plated full port bronze ball, teflon seats and O-rings, bronze shafts, and infinite position handle with memory stops. Valve shall be two piece. Where valves are installed in insulated lines, provide extended stems of adequate length for the handle to clear the insulation and jacket. Apollo, Crane, Nibco and Milwaukee are acceptable.	1. Any insulation which is not applied in a workmanlike manner will be rejected and replaced. All coverings shall be smooth, flush, dressed to line and tight. Mastic shall be neatly applied and tooled. Architect reserves the right to reject any insulation whose appearance he deems unacceptable.
C. HANGERS AND SUPPORTS:	2. Apply insulation and pipe covering after all work has been tested, found to be tight and accepted as such by the Architect. Thoroughly clean and dry all surface to be covered.
1. Support all pipes as required by the plumbing code and as required to prevent sagging. PVC lines shall be supported at 4' intervals and other pipes shall be supported on 6' intervals as a minimum. Hangers shall be clevis type with adjusters.	3. Factory-applied vapor-barrier jackets shall be one of the following:
D. PLUMBING FIXTURES:	a) An All Service Jacket (ASJ) laminated of flame resistant white kraft paper, glass scrim reinforcement, and kraft paper.
1. Refer to Plumbing Fixture Schedule on drawings.	b) Foil Reinforced Kraft (FRK) Jacket laminated of flame resistant 0.001" aluminum foil, glass scrim reinforcement and kraft paper.
2. The plate numbers on the drawings represent fixtures that will be acceptable on the job. Approved manufacturers as listed below:	4. Insulate valves and fittings with two fiberglass inserts and preformed Manville "Zeston" covers with taped seams.
a) American Standard	5. The following describes materials, thicknesses and finishes for insulation and coverings.
b) Eljer	6. Domestic Cold Water, Hot Water and Circulating Lines: Insulate with 1" thick Owens-Corning Fiberglas ASJ/SSL-I molded sectional glass fiber pipe covering with an All Service Jacket (ASJ). Insulate concealed valves and fittings with preformed "Zeston" PVC covers over fiberglass insulation. Insulate exposed valves and fittings with Hamfab insulation fittings.
c) Delta Commercial	7. Drain Lines: 1/2" thick flexible elastomeric insulation Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C534/C534M, Type I for tubular materials equal to Armacell Armaflex. Insulation shall be installed using manufacturer recommended adhesive at all joints and fittings (taping of joints is not acceptable).
d) Wade	E. TESTING:
e) T&S Brass	1. Test all pipes before they are concealed in furrings or chases, insulated, painted, or otherwise covered up or rendered inaccessible. Accomplish testing by sections of lines or systems, as required by conditions during construction. Clean all piping and equipment before testing.
f) Watts	2. Domestic Water Lines Interior: Hydrostatically test for 6 hours at 150 psig. There shall be no leaks whatsoever.
g) Acorn	3. Interior Soil, Waste and Vent Lines: Drainage and venting system piping shall be tested with water before the fixtures are installed. Water test shall be applied to the drainage and venting system either in its entirety or in sections. If the entire system is tested, all openings in the pipes shall be tightly closed except the highest opening and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening except the highest opening of the section under test shall be tightly plugged, and each section shall be filled with water and tested with at least a 10 foot head of water. The water shall be kept in the system, or in the portion under test, for at least 30 minutes before the inspection starts. The system shall then be tight at all joints. Water shall not drop more than 1" in 8 hours.
h) Bradley	F. DISINFECTING:
i) Halsey Taylor	1. After cleaning, flushing and testing, the Contractor shall furnish all labor, equipment and materials necessary for the disinfection of all domestic pipe lines which shall be disinfected by the application of a chlorinating agent. The chlorinating agent may be a liquid chlorine, liquid chlorine gas water mixture, or a calcium hypochlorite solution, which shall be fed into the lines through a suitable solution feed device.
j) Sloan	2. The chlorinating agent shall be applied at or near the point from which the line is being filled and through a corporation stop or other approved connection inserted in the horizontal axis of the newly laid pipe. The water being used to fill the line shall be controlled to flow into the section to be disinfected very slowly.
k) Acorn	3. The chlorine dose applied to the water entering the lines shall be at least 40 to 60 parts per million. The treated water shall be retained in the pipe lines for a period of not less than 24 hours. At the end of the 24 hour retention period the chlorine residual shall be at least 20 ppm. All treated water shall be thoroughly flushed from the lines until the replacement water in the lines has a chlorine residual of not more than 0.2 parts per million.
l) Elkay	
m) Just	
n) Chicago	
o) Moen Commercial	
p) Kohler	
3. All exposed trim shall be chrome plated brass. This includes faucets, fittings, stops, risers, strainers, tailpieces, traps, waste, escutcheons, flush valves, brackets, vacuum breakers, goosenecks, hole covers, bolts, nuts and etc.	
4. All threaded supply fittings or outlets with tubing nozzles shall have back flow preventers.	
5. All fixtures shall have quarter-turn stop valves.	
6. Generally all wall hung fixtures shall be provided with chair carriers so that no weight is supported from the wall.	
7. All fixtures shall be cleaned before final acceptance.	
8. Verify mounting height of each and every fixture before rough-in.	
9. Where fixtures mate with walls or floor, the joint shall be grouted with dental plaster, G. E. Silicone or other grout as directed by the Architect.	
10. The Contractor shall verify all rough in heights before installation and shall secure a current ruling on heights of handicapped fixtures before rough in to insure that they meet the requirements of the parties having jurisdiction.	
11. Controls for water closet flush valves shall be mounted on the wide side of toilet areas.	
12. All fixtures shall meet State of Texas water saving performance standards.	

PLUMBING FIXTURE SCHEDULE		FIXTURE CONNECTIONS (RUNOUT LINE SIZES)			
MARK	FIXTURE SPECIFICATION	DCW	DHW	SAN	VENT
		WATER CLOSETS			
WC1	Fixture/Flushvalve: Sloan Model WETS 2020.1001-1.28, 1.28GPF HET, floor mounted elongated bowl, siphon jet and Sloan Royal 1.28 Quiet Exposed Permax Rubber Diaphragm Type Flushvalve with ADA Non-Hold-Open Handle, Free Spinning Stop Cap, No External Volume Adjustment with bolt covers. ADA compliant Seat: Bemis 1955C white solid plastic open front.	1-1/2"	—	4"	2"
URINALS					
U1	Fixture/Flushvalve: Sloan Model WEUS-1000.1001-0.13 Vitreous China HEU Wall Mount wash down urinal with Integral Trap and 3/4" top spud and Sloan Royal 0.13GPF Quiet Exposed Permax Rubber Diaphragm Type Flushvalve with ADA Non-Hold-Open Handle, Free Spinning Stop Cap, No External Volume Adjustment Verify mounting height with Architect. ADA compliant. Carrier: Josam 17550-UR floor mounted Urinal Carrier with hanger plate, adjustable supporting rods, rectangular structural uprights and welded feet	3/4"	—	3"	2"
LAVATORIES					
L1	Fixture: Sloan SS-3003 18x28 wall mount lavatory, vitreous china, front overflow, and 4" centers. ADA compliant. Supply: T&S Brass B-2711, 4" Centerset Single Lever Faucet with 1/2" IPS Male Inlet Shanks, Temperature Limit Stop and Ceramic Cartridge. ADA compliant.	1/2"	1/2"	2"	2"
	Tailpiece: McGuire 155WC Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow and 17 gauge 1-1/4" inch seamless brass offset tailpiece. P-Trap: McGuire 8872C-F P-Trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged Brass Set Screw Flange.				
	Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, Chrome Plated copper riser and Chrome Plated Forged Brass Set Screw Flange. Protective Insulation: Truebro Lav Shield rigid enclosure to enclose all components (traps, mixing valve, etc.). Enclosure to be 0.093" nominal wall thickness, stain resistant PVC, china white color, and secured to wall with stainless steel screws. ADA Compliant. Carrier: Josam 17100 floor mounted Lavatory Carrier with concealed arms, leveling and securing screws, rectangular structural uprights and welded feet				
L2	Fixture: Kohler K-2196 vitreous china 20" x 17" self rim, with 4" drillings. TAS compliant. Supply: T&S Brass B-2711, 4" Centerset Single Lever Faucet with 1/2" IPS Male Inlet Shanks, Temperature Limit Stop and Ceramic Cartridge. ADA compliant.	1/2"	1/2"	2"	2"
	Tailpiece: McGuire 155WC Cast Brass Chrome Plated Offset Wheelchair Strainer with polished chrome cast brass elbow and 17 gauge 1-1/4" inch seamless brass offset tailpiece. P-Trap: McGuire 8872C-F P-Trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Forged Brass Set Screw Flange.				
	Stops, risers: McGuire BV2165-F Supply kit shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle, Chrome Plated copper riser and Chrome Plated Forged Brass Set Screw Flange. Protective Insulation: Plumberex X4333/X4114, Insulate per ADA 4, 19.4 and or IBC all exposed lavatories drain piping, hot/cold stops and supplies. Protectors will consist of molded closed cell PVC, with anti-fungal and anti-microbial properties. To be one piece continuous smooth design.				
ELECTRIC WATER COOLERS					
EWC1	Fixture: Elkay LVRCGRNTL8WSK, EZH2O, stainless steel, vandal resistant, touchless sensor activated bottle filling station and bi-level drinking fountain, 8.0 GPH of 50 degree F drinking water, visual filter monitor, green counter, and mechanically activated bubbler. Verify mounting height with Architect. ADA compliant. Provide with 2 extra water filters Apron: Elkay 98324C, Cane touch apron, stainless steel construction. Apron shall extend to exactly 27" A.F.F. as per ADA requirements.	1/2"	—	2"	2"
	P-Trap: McGuire 8872C-F P-Trap shall be chrome plated cast brass body with cleanout, with 17 gauge seamless wall bend, slip nuts and Chrome Plated Set Screw Flange. Stop: McGuire BV175 Supply shall include commercial pattern chrome plated Quarter-Turn Brass Ball Valve with convertible loose key handle. Carrier: Josam 17560-WCBL floor mounted Water Cooler Carrier with rectangular structural uprights and welded feet continuous smooth design.				
SHOWERS					
SH1	Valve: Bradley Model 1C-HD-S20 in wall shower with Equa Flo HD heavy duty pressure balancing valve, standard shower head with 2.0 gpm flow control.	1/2"	1/2"	—	—
SH2	Fixture: Bradley 1C-HD-S20-SB-30-DV in wall shower with Equa Flo HD heavy duty pressure balancing valve, standard shower head with 2.0 gpm flow control, hand shower with 60" flexible hose, 30" metal slide bar, vacuum breaker and quick disconnect, in wall diverter valve. ADA Compliant.	1/2"	1/2"	—	—
SPECIALTIES					
FD1	Fixture: Floor Drains shall be coated cast iron, two piece body, non puncturing flashing collar with weep holes and 6" adjustable satin Nikaloy round strainer equal to Josam 30000-6A. Provide all floor drains with trap seal equal to ProSet Trap Guard and install according to manufacturer's instructions.	—	—	2"	2"
SD1	Fixture: Floor Drains shall be coated cast iron, two piece body, non puncturing flashing collar with weep holes and 5" adjustable chrome plated round strainer equal to Josam 30000-5A-CP. Provide all floor drains with trap seal equal to ProSet Trap Guard and install according to manufacturer's instructions.	—	—	2"	2"
CLEANOUTS CO, WCO, DCO	Floor cleanouts in finished floors shall be equal to Josam 55000-1 with medium-duty scoriated secured round satin Nikaloy Cover.	LINE SIZE UP TO 4"			
	Floor cleanouts in floors with thin flooring shall be equal to Josam 55000-1-13 with recessed top for flooring.				
	Floor cleanouts in tiled floors shall be equal to Josam 55000-1-SQ with scoriated secured square satin Nikaloy Cover.				
	Floor cleanouts in carpeted floors shall be equal to Josam 55000-14 with scoriated secured round cover and carpet cleanout marker.				
	Floor cleanouts in unfinished areas shall be equal to Josam 55000-1-SD with special duty scoriated secured round laminated satin Nikaloy Cover.				
Exterior cleanouts subject to heavy wheel traffic shall be equal to Josam 58680-CO Cast Iron Access Frame with anchor flanges and heavy-duty scoriated secured cover.					
Wall cleanouts shall be concealed behind Stainless Steel access cover with screw equal to Josam 58600.					

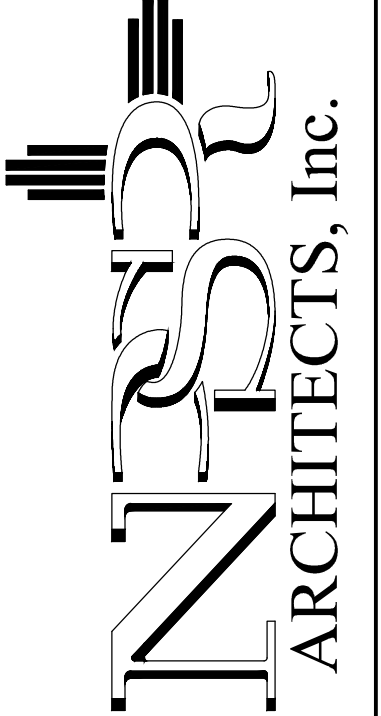
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



606 WEST PIERCE ST.
DURHAM, NC 27701
PH: 575.885.4775
FAX: 575.885.4827

220 BROADWAY ST.
SUITE 1000
PH: 575.433.4775
FAX: 575.433.4777

www.npsrpro.com



LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

DATE	DESCRIPTION

PROJECT NO. _____
DRAWN BY: _____
CHECK BY: _____
APPROVED BY: _____

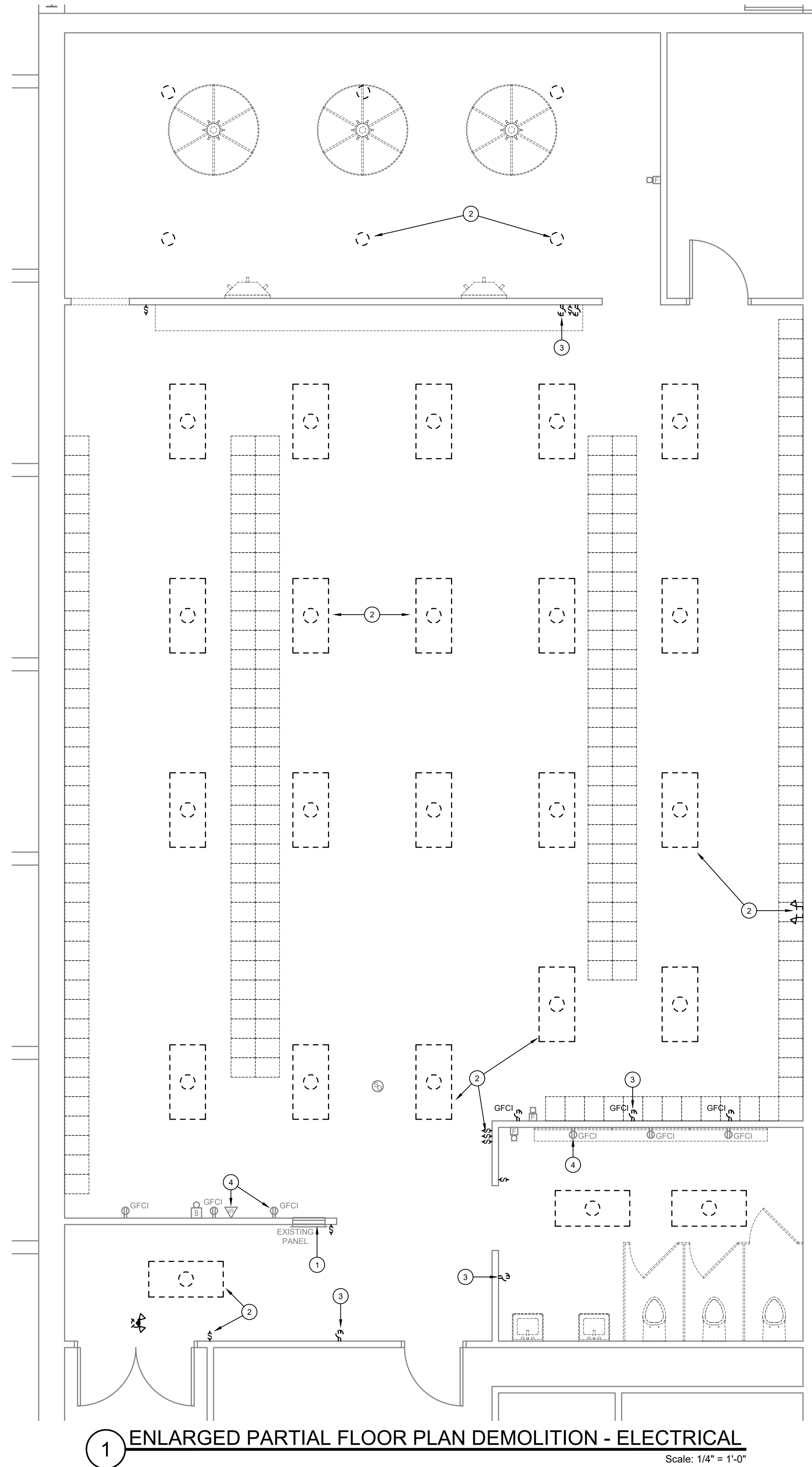
SHEET TITLE: **P104**
PLUMBING
SHEET 5 OF 5



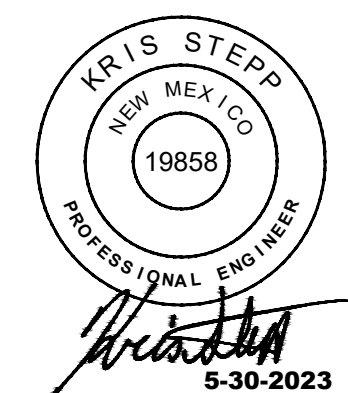
FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109

www.finchereeng.com

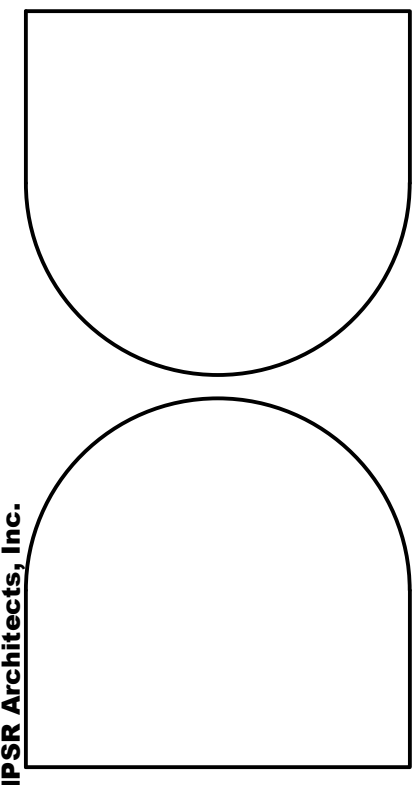
GENERAL NOTES	
A.	ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.
B.	VERIFY EXACT LOCATION OF ALL DEVICES AND CONDUIT TO REMAIN.
C.	ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT SHALL REMAIN ACTIVE. THIS INCLUDES BUT NOT LIMITED TO RECEPTACLES, LIGHTS, FIRE ALARM, DATA, AND COMMUNICATION OUTLETS/WIRING.
D.	ALL POWER AND COMMUNICATIONS OUTAGES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO OUTAGE. PROVIDE TEMPORARY CONNECTIONS (POWER AND COMMUNICATION WIRING) TO EQUIPMENT TO MAINTAIN SERVICE DURING CONSTRUCTION AS REQUIRED.
KEYED NOTES	
1.	EXISTING ELECTRICAL PANEL SHALL REMAIN.
2.	EXISTING LIGHT FIXTURE AND ASSOCIATED CONTROLS TO BE REMOVED. CIRCUIT SHALL REMAIN FOR REUSE. (TYPICAL)
3.	EXISTING ELECTRICAL DEVICE TO BE REMOVED. CIRCUIT SHALL REMAIN FOR REUSE. (TYPICAL)
4.	EXISTING ELECTRICAL DEVICE SHALL REMAIN ACTIVE. (TYPICAL)



1 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - ELECTRICAL
Scale: 1/4" = 1'-0"



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109
 WWW.FINCHERENG.COM



606 WEST HERCULES ST.
 SUITE 100
 LUBBOCK, TX 79424
 PH: 575.885.4775
 FAX: 575.885.4827

220 BROADWAY ST.
 SUITE 200
 HOBBBS, TX 79401
 PH: 575.433.4775
 FAX: 575.433.4777
 www.npsrpro

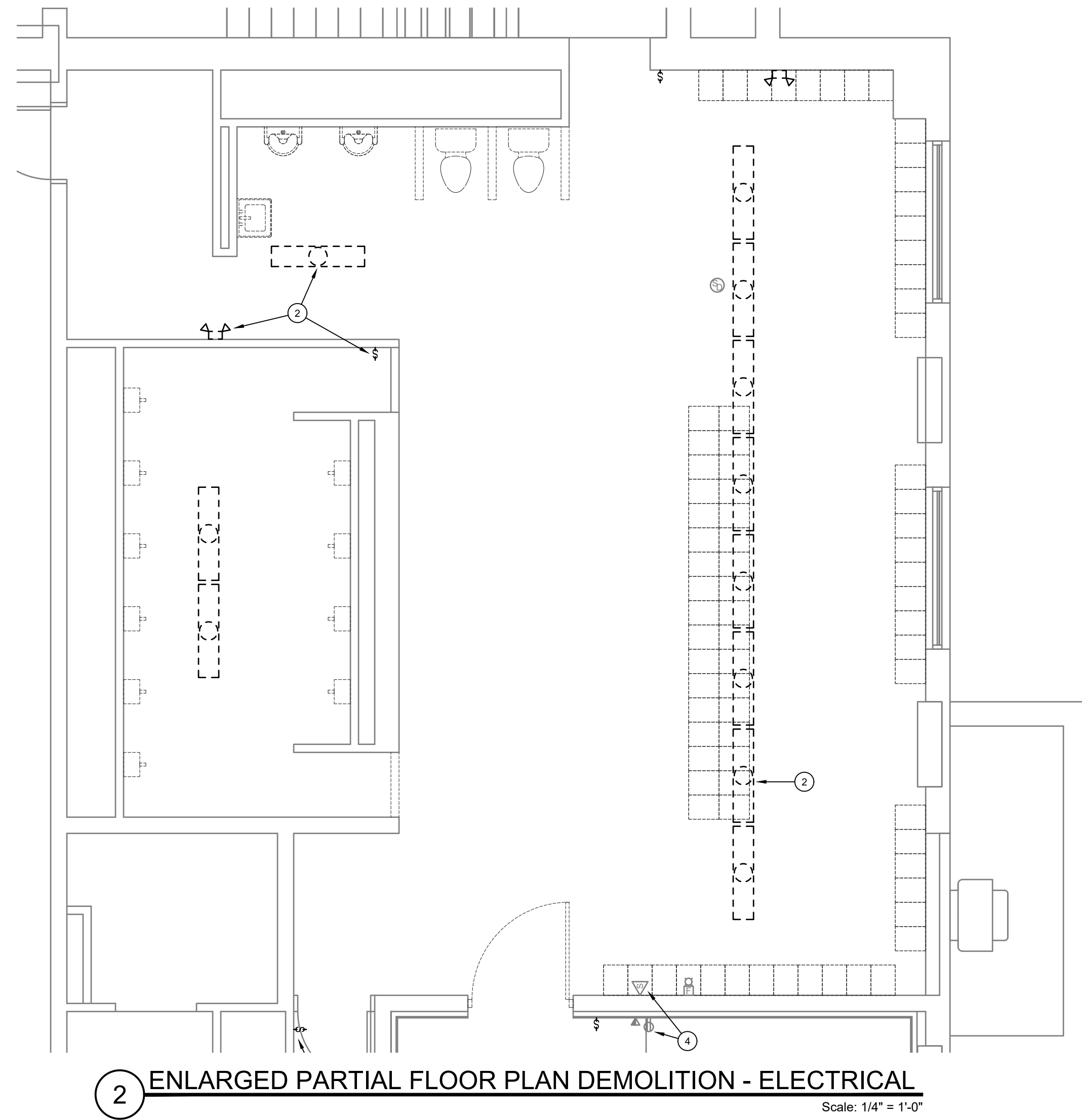
LOCKER ROOM RENOVATIONS
 FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
 HOBBS, NEW MEXICO
 1400 E. SCHARBAUER ST.

DATE	DESCRIPTION
05-30-23	CONSTRUCTION DOCUMENTS

PROJECT NO.:	FE
DRAWN BY:	FE
CHK BY:	FE
APPROVED BY:	FE

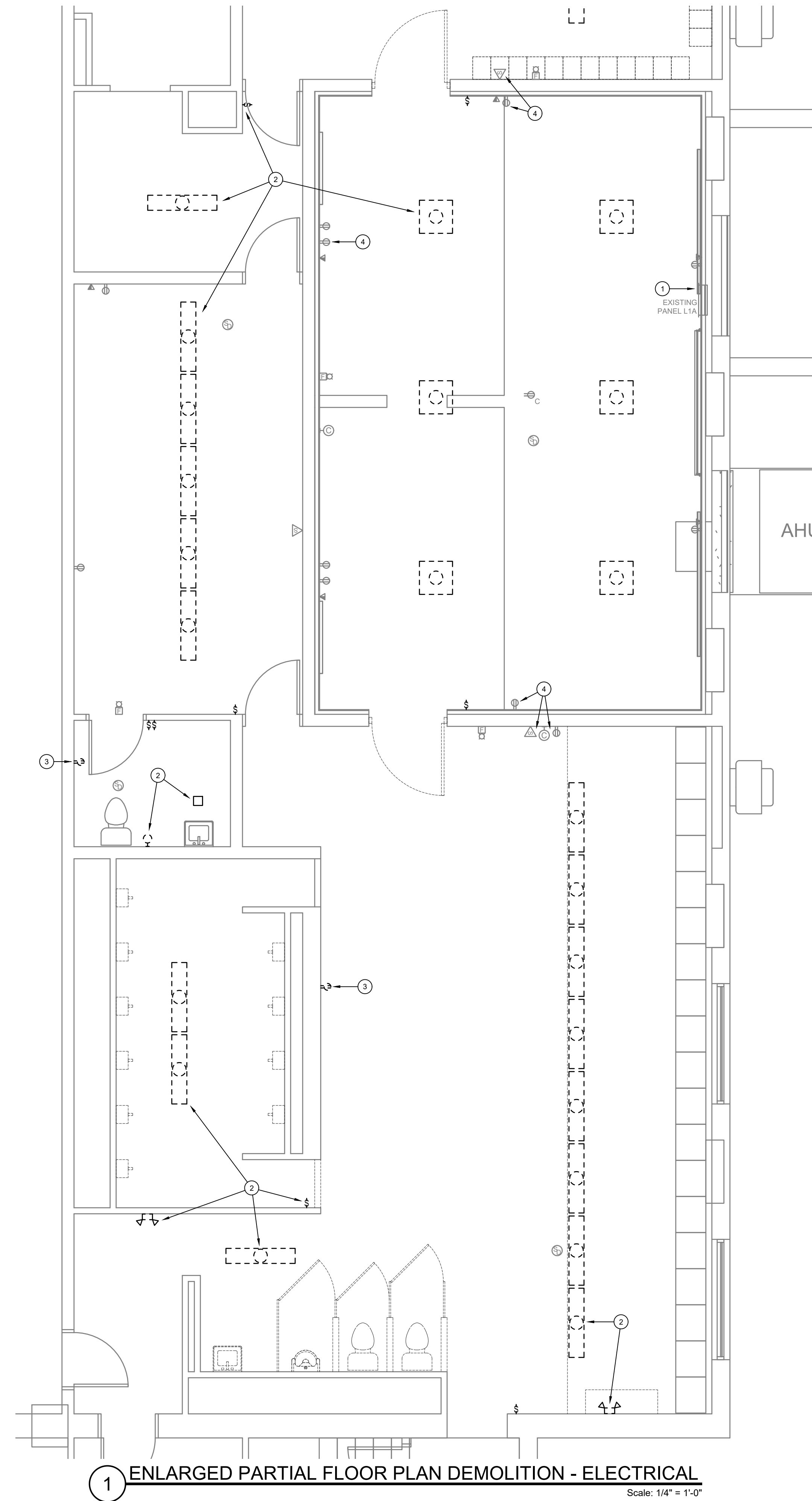
SHR TITLE: **ED101**
 ELECTRICAL
 SHEET 1 OF 8

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



2 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - ELECTRICAL
Scale: 1/4" = 1'-0"

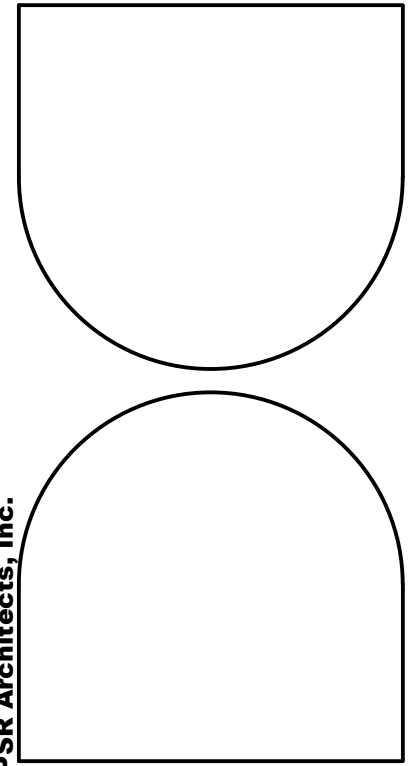
GENERAL NOTES	
A.	ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.
B.	VERIFY EXACT LOCATION OF ALL DEVICES AND CONDUIT TO REMAIN.
C.	ALL DOWNSTREAM DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT SHALL REMAIN ACTIVE. THIS INCLUDES BUT NOT LIMITED TO RECEPTACLES, LIGHTS, FIRE ALARM, DATA, AND COMMUNICATION OUTLETS/WIRING.
D.	ALL POWER AND COMMUNICATIONS OUTAGES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO OUTAGE. PROVIDE TEMPORARY CONNECTIONS (POWER AND COMMUNICATION WIRING) TO EQUIPMENT TO MAINTAIN SERVICE DURING CONSTRUCTION AS REQUIRED.
KEYED NOTES	
1.	EXISTING ELECTRICAL PANEL SHALL REMAIN.
2.	EXISTING LIGHT FIXTURE AND ASSOCIATED CONTROLS TO BE REMOVED. CIRCUIT SHALL REMAIN FOR REUSE. (TYPICAL)
3.	EXISTING ELECTRICAL DEVICE TO BE REMOVED. CIRCUIT SHALL REMAIN FOR REUSE. (TYPICAL)
4.	EXISTING ELECTRICAL DEVICE SHALL REMAIN ACTIVE. (TYPICAL)



1 ENLARGED PARTIAL FLOOR PLAN DEMOLITION - ELECTRICAL
Scale: 1/4" = 1'-0"



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM



NPSR
ARCHITECTS, Inc.
606 WEST PIERCE ST.
LUBBOCK, TX 79401
PH: 575.885.4775
FAX: 575.885.4827
220 BROADWAY ST.
SUITE 200
HOBBBS, TX 79401
PH: 575.433.4775
FAX: 575.433.4777
www.npsrpro

LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

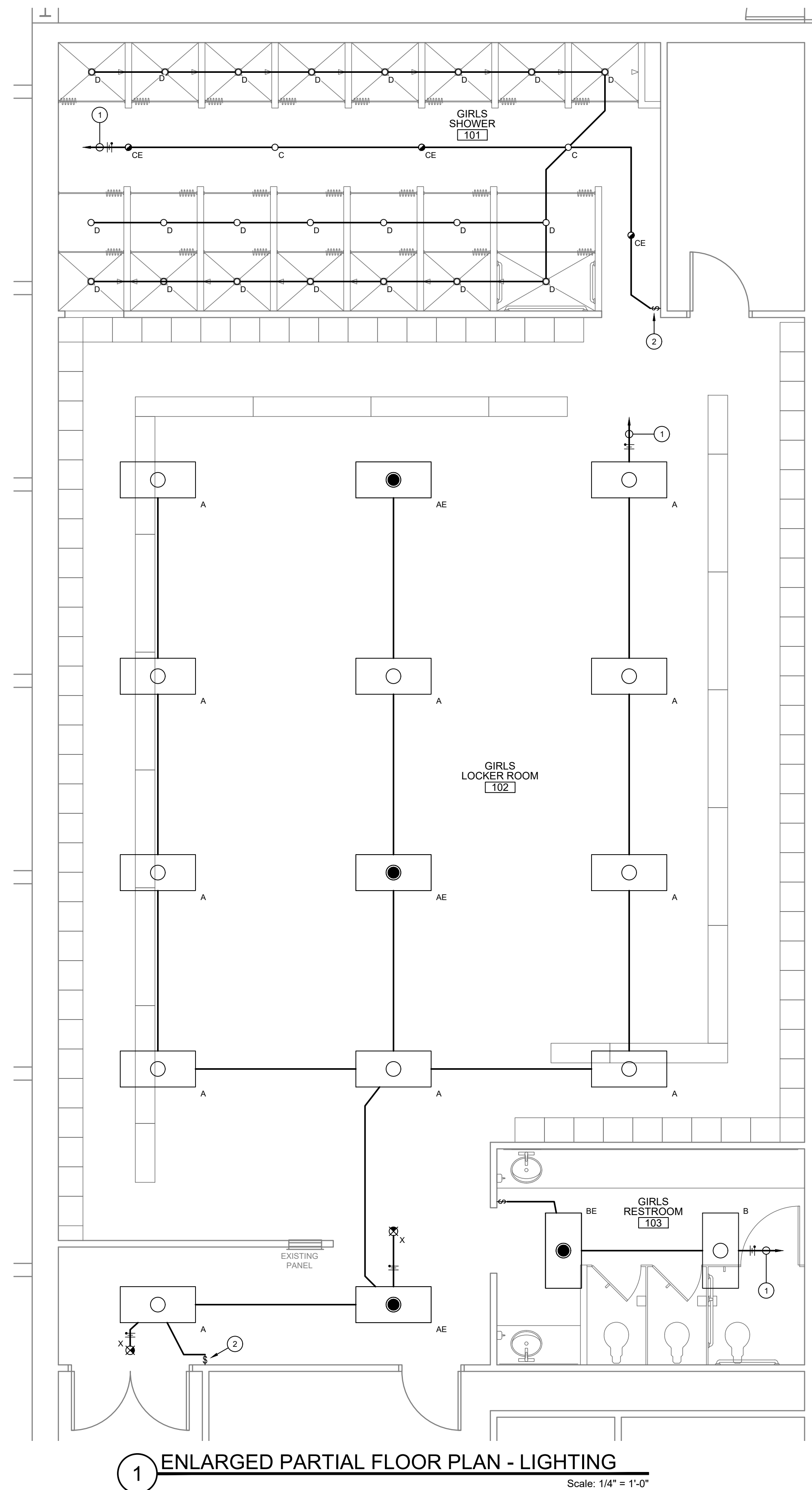
PROJECT NO.:	FE
DRWN BY:	FE
CHK BY:	FE
APPROVD BY:	FE
DATE:	DESCRIPTION
05-30-23	CONSTRUCTION DOCUMENTS

PROJECT NO.: FE
DRWN BY: FE
CHK BY: FE
APPROVD BY: FE
SHEET TITLE: **ED102**
ELECTRICAL
SHEET 2 OF 8

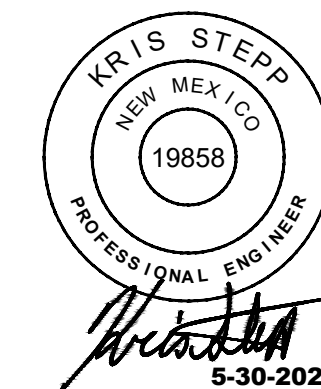
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

LIGHT FIXTURE SCHEDULE								
TYPE	VOLTAGE	MOUNTING	MANUFACTURER	MODEL NUMBER	LUMENS (LM)	WATTS	REMARKS	NOTES
A	120	SURFACE	LITHONIA	EPANL 2X4 6000LM 80CRI 40K MIN10 ZT MVOLT - 2X4SMKSH	6000	50	2x4' FLAT PANEL WITH SURFACE MOUNTING KIT	
AE	120	SURFACE	LITHONIA	EPANL 2X4 6000LM 80CRI 40K MIN10 ZT MVOLT E10WCP - 2X4SMKSH	6000	50	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY	
B	120	SURFACE	LITHONIA	EPANL 2X4 4800LM 80CRI 40K MIN10 ZT MVOLT - 2X4SMKSH	4800	45	2x4' FLAT PANEL WITH SURFACE MOUNTING KIT	
BE	120	SURFACE	LITHONIA	EPANL 2X4 4800LM 80CRI 40K MIN10 ZT MVOLT E10WCP - 2X4SMKSH	4800	45	SAME AS TYPE "B" EXCEPT WITH EMERGENCY BATTERY	
C	120	RECESSED	LITHONIA	LDN6 40 15 L06 AR LSS MVOLT GZ10	1500	15	6" ROUND LED DOWNLIGHT FIXTURE	
CE	120	RECESSED	LITHONIA	LDN6 40 15 L06 AR LSS MVOLT GZ10 E10WCP	1500	15	SAME AS TYPE "C" EXCEPT WITH EMERGENCY BATTERY	
D	120	RECESSED	LITHONIA	WF6 LED 40K 90CRI WH	1100	14	6" ROUND LED SHOWER DOWNLIGHT FIXTURE WITH NON-CONDUCTIVE LENS	
F	120	RECESSED	LITHONIA	EPANL 2X4 4800LM 80CRI 40K MIN10 ZT MVOLT	4800	45	2x4' FLAT PANEL WITH DIMMING DRIVER	
FE	120	RECESSED	LITHONIA	EPANL 2X4 4800LM 80CRI 40K MIN10 ZT MVOLT E10WCP	4800	45	SAME AS TYPE "F" EXCEPT WITH EMERGENCY BATTERY	
G	120	WALL	LITHONIA	FMVCSLS 12 MVOLT 40K 90CRI BN	1500	15	LED VANITY LIGHT FIXTURE	
X	120	SURFACE	LITHONIA	LQM S W 3 R MVOLT ELN	LED	2	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY	
GENERAL LIGHT FIXTURE NOTES:								
A. ALL LED LIGHT FIXTURES SHALL BE RATED FOR 4000 DEGREES KELVIN UNLESS OTHERWISE NOTED.								
LIGHT FIXTURE SCHEDULE NOTES:								

GENERAL NOTES	
A.	VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
B.	VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
C.	VERIFY AND COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
D.	ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO OWNER.
E.	PROVIDE AN UN-SWITCHED HOT (BALLAST/DRIVER) TO ALL EMERGENCY FIXTURES ROUTED THRU LIGHTING CONTROLS TO PROVIDE EMERGENCY OPERATION.
F.	PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
G.	LIGHTING CONTROL WIRING SHALL BE ROUTED IN SEPARATE CONDUIT/PATHWAY FROM POWER WIRING.
KEYED NOTES	
1.	EXTEND AND CONNECT TO EXISTING BRANCH LIGHTING CIRCUIT SERVING AREA.
2.	COORDINATE EXACT LOCATION OF LIGHT SWITCH WITH ARCHITECT AND OWNER.



1 ENLARGED PARTIAL FLOOR PLAN - LIGHTING
Scale: 1/4" = 1'-0"



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109
 WWW.FINCHERENG.COM

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

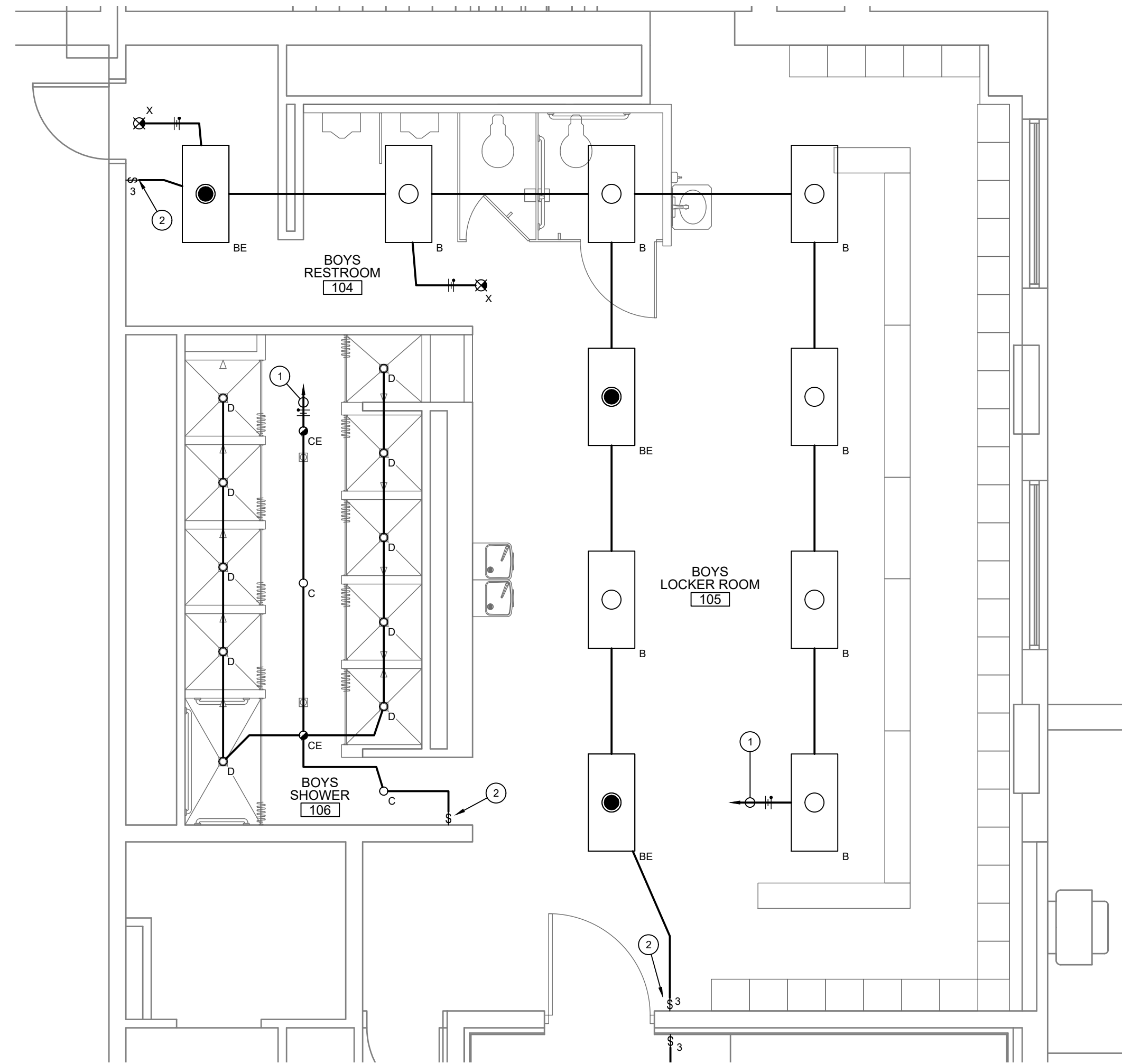
NPSR ARCHITECTS, Inc.
 606 WEST PIERCE ST.
 LUBBOCK, TX 79401
 PH: 806-775-8854, 4775
 FAX: 806-775-8855, 4827

LOCKER ROOM RENOVATIONS FOR TASKER ARENA HOBBS MUNICIPAL SCHOOLS
 HOBBS, NEW MEXICO
 1400 E. SCHARBAUER ST.

PROJECT NO: _____
 DRAWN BY: FE
 CDD BY: FE
 APPROVED BY: FE

DATE: _____
 DESCRIPTION: _____

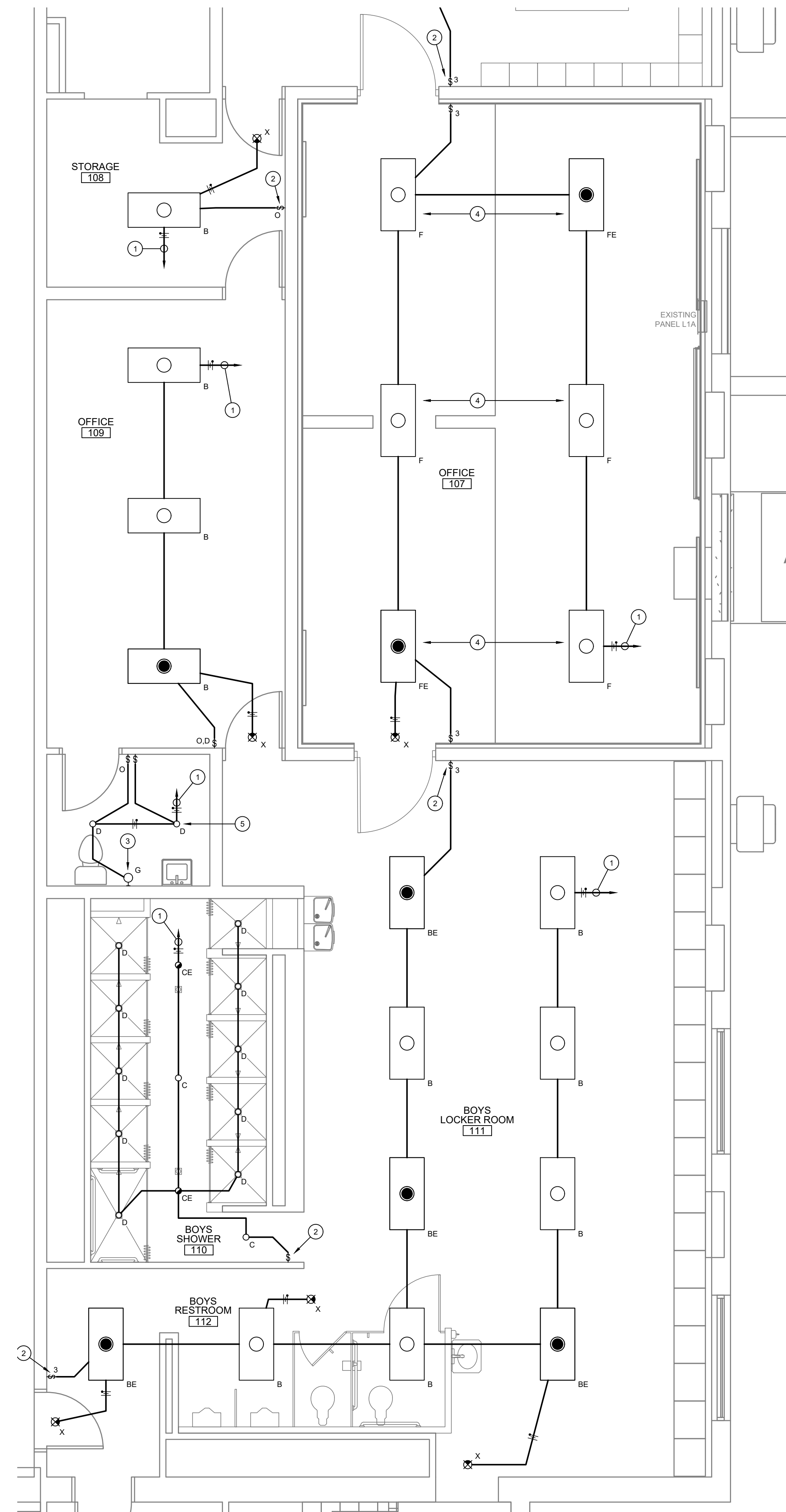
SHR TITLE: **E101**
ELECTRICAL
 SHEET 3 OF 8



2 ENLARGED PARTIAL FLOOR PLAN - LIGHTING
Scale: 1/4" = 1'-0"

GENERAL NOTES	
A.	VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
B.	VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
C.	VERIFY AND COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
D.	ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO OWNER.
E.	PROVIDE AN UN-SWITCHED HOT (BALLAST/DRIVER) TO ALL EMERGENCY FIXTURES ROUTED THRU LIGHTING CONTROLS TO PROVIDE EMERGENCY OPERATION.
F.	PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
G.	LIGHTING CONTROL WIRING SHALL BE ROUTED IN SEPARATE CONDUIT/PATHWAY FROM POWER WIRING.

KEYED NOTES	
1.	EXTEND AND CONNECT TO EXISTING BRANCH LIGHTING CIRCUIT SERVING AREA.
2.	COORDINATE EXACT LOCATION OF LIGHT SWITCH WITH ARCHITECT AND OWNER.
3.	COORDINATE LOCATION OF LIGHT FIXTURE TO BE MOUNTED ABOVE SINK. COORDINATE ADDITIONAL REQUIREMENTS WITH ARCHITECT.
4.	COORDINATE LOCATION OF LIGHT FIXTURE WITH EXISTING LAY-IN CEILING.
5.	LIGHT FIXTURE "D" TO BE MOUNTED IN SHOWER. FIELD VERIFY EXISTING CONDITIONS.



1 ENLARGED PARTIAL FLOOR PLAN - LIGHTING
Scale: 1/4" = 1'-0"



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

NPSR ARCHITECTS, Inc.
606 WEST PIERCE ST.
LUBBOCK, TX 79401
PH: 806-795-8858
FAX: 806-795-8858

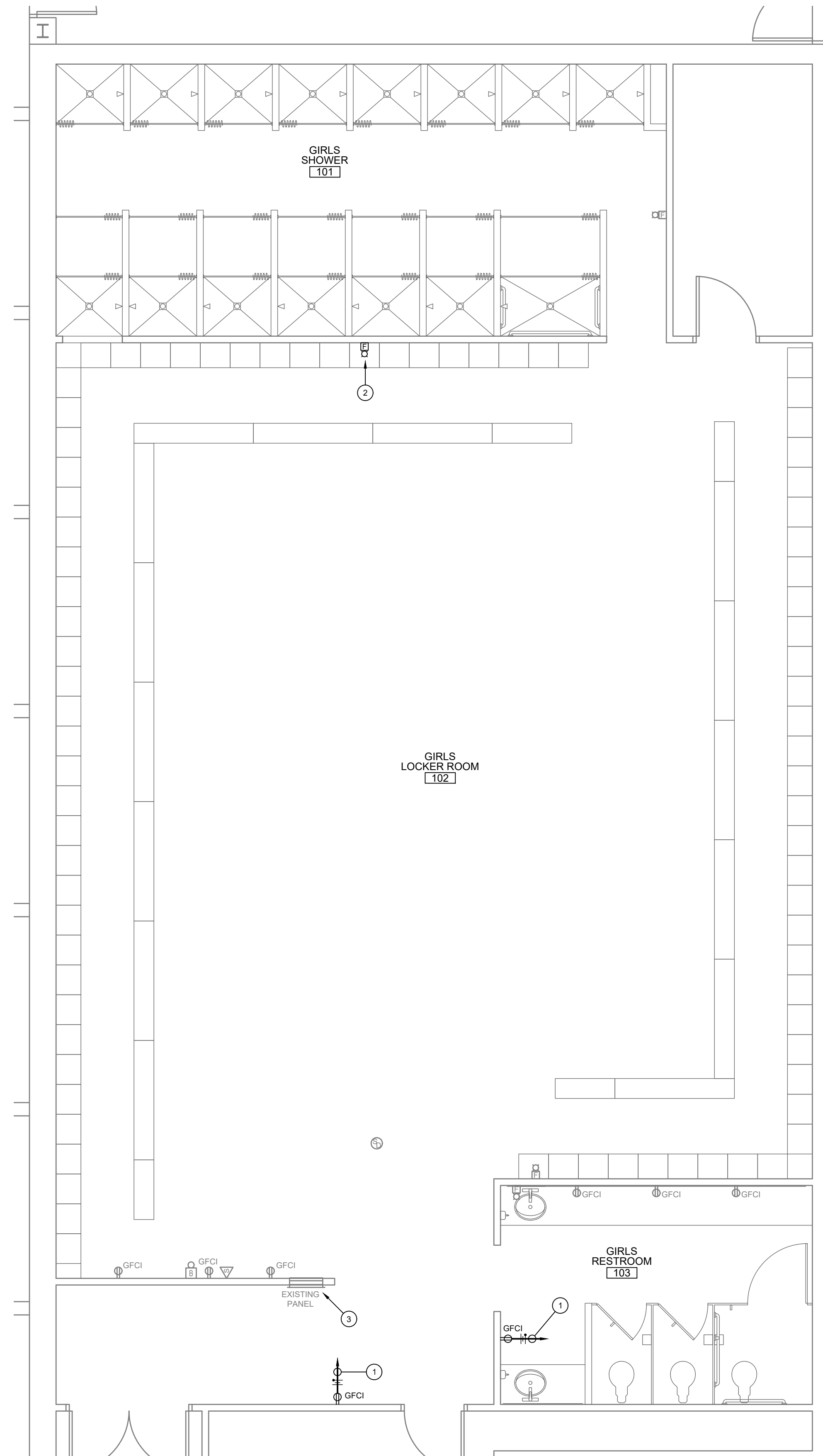
220 BROADWAY ST.
SUITE 200
HOBBBS, TX 76036
PH: 817-575-4334
FAX: 817-575-4334
www.npsrpro

LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

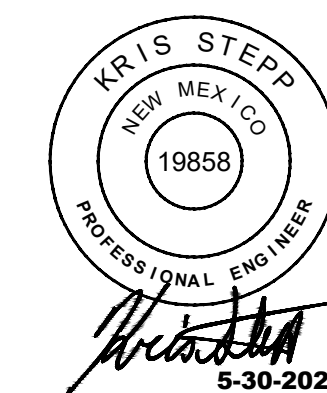
DATE	DESCRIPTION
05-30-23	CONSTRUCTION DOCUMENTS

PROJECT NO.:	FE
DRAWN BY:	FE
CHK BY:	FE
APPROVED BY:	FE

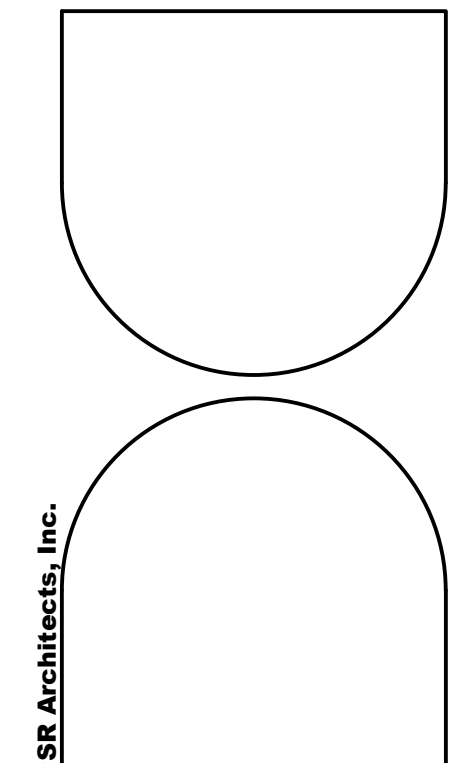
- GENERAL NOTES**
- A. VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
 - B. IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.
 - C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
 - D. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
 - E. PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
 - F. PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
 - G. CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
 - H. ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
 - I. DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
 - J. WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT, CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
 - K. ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12
- KEYED NOTES**
1. EXTEND AND CONNECT TO EXISTING BRANCH RECEPTACLE CIRCUIT SERVING AREA.
 2. NEW HONEYWELL FIRE ALARM DEVICE(MATCH EXISTING). EXTEND AND CONNECT TO FIRE ALARM CONTROL PANEL AS REQUIRED. COORDINATE REQUIREMENTS WITH FIRE ALARM CONTRACTOR.
 3. PROVIDE NEW TYPED INDEX CARD FOR PANEL INDICATING LOADS.



1 ENLARGED PARTIAL FLOOR PLAN - POWER/COMMUNICATION
Scale: 1/4" = 1'-0"



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM



606 WEST HERCULES ST.
LUBBOCK, TX 79401
PH: 806-775-8854, 4775
FAX: 806-775-8855-4827

220 BROADWAY ST.
SUITE 400
HOBBBS, TX 76036
PH: 817-575-4334, 4775
FAX: 817-575-4334, 4777
www.npsrpro

NPSR
ARCHITECTS, Inc.

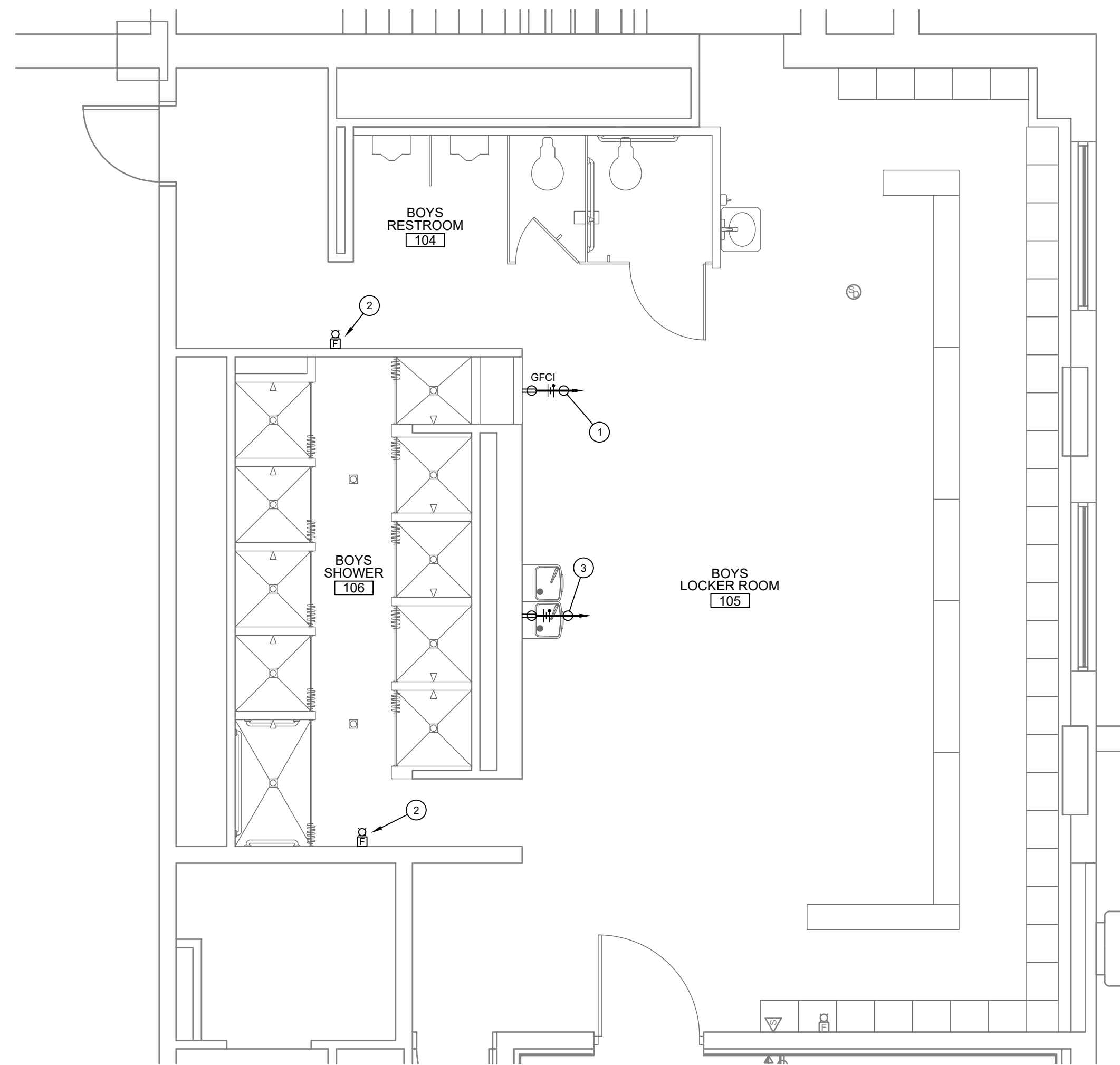
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBBS MUNICIPAL SCHOOLS
HOBBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

PROJECT NO.	DATE	DESCRIPTION
05-30-23		CONSTRUCTION DOCUMENTS

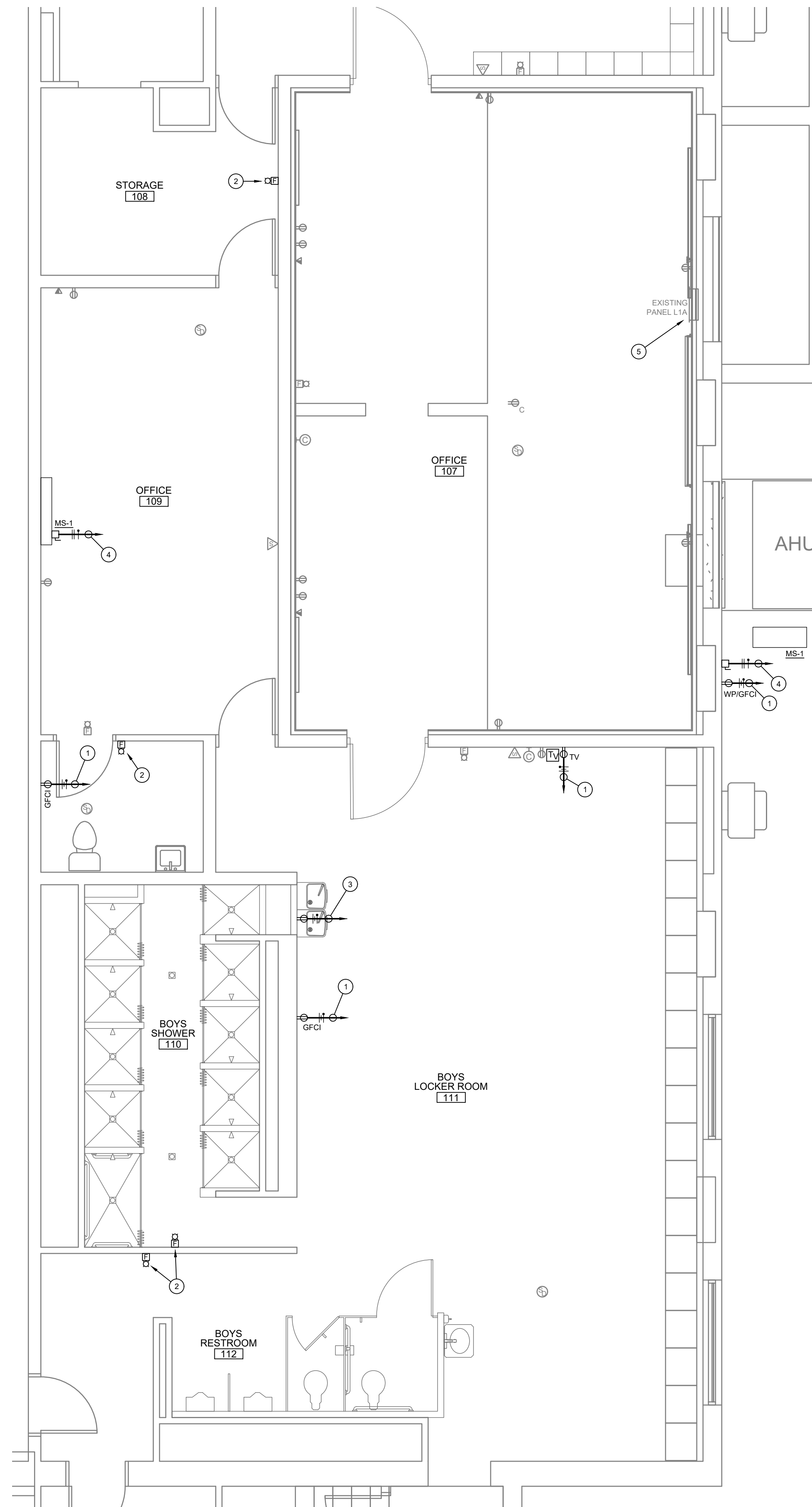
PROJECT NO.: FE
DRAWN BY: FE
CHK BY: FE
APPROVED BY: FE

SHR TITLE: **E103**
ELECTRICAL
SHEET 5 OF 8

This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.

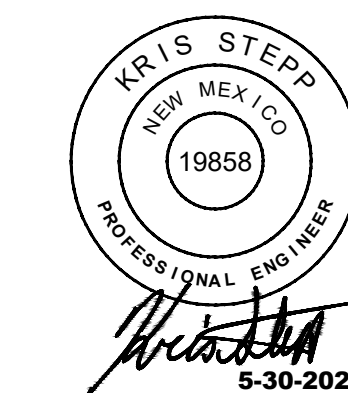


2 ENLARGED PARTIAL FLOOR PLAN - POWER/COMMUNICATION
Scale: 1/4" = 1'-0"



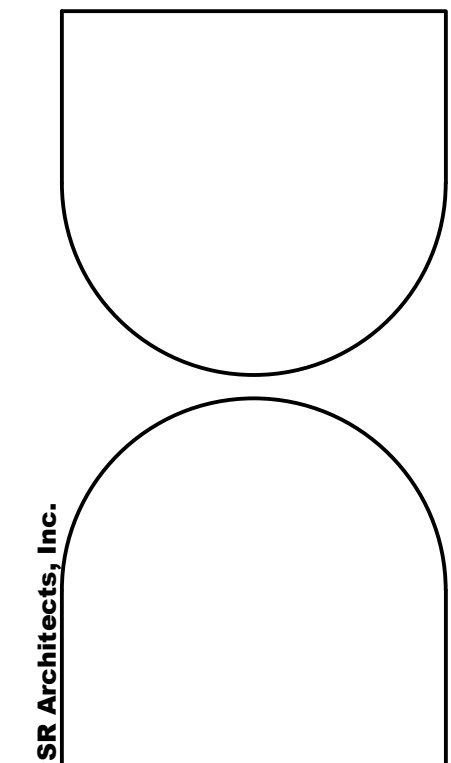
1 ENLARGED PARTIAL FLOOR PLAN - POWER/COMMUNICATION
Scale: 1/4" = 1'-0"

GENERAL NOTES	
A.	VERIFY ALL ELECTRICAL INSTALLATIONS WITH LOCAL CODES AND CITY ORDINANCES PRIOR TO INSTALLATION.
B.	IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.
C.	THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT POWER REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN. TERMINATE AS DIRECTED BY EQUIPMENT NAME PLATES. COORDINATE EXACT LOCATION FOR INSTALLATIONS WITH OWNER PRIOR TO ROUGH-IN. NOTIFY ENGINEER IF ALTERNATE POWER IS REQUIRED.
D.	VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND TEMPERATURE CONTROLS WITH MECHANICAL PLANS. PROVIDE 1" CONDUIT AT EACH THERMOSTAT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
E.	PROVIDE DEDICATED NEUTRAL WIRE FOR EACH 120V CIRCUIT BREAKER.
F.	PROVIDE MOTOR RATED SWITCHES FOR EACH 120V HVAC CONNECTIONS. OVERLOADS SHALL MATCH MOTOR RATING.
G.	CONTRACTOR SHALL PROVIDE NEMA 3R DISCONNECT SWITCHES FOR ALL EXTERIOR HVAC EQUIPMENT. INTERIOR DRY LOCATION DISCONNECT ENCLOSURES SHALL BE RATED NEMA 1.
H.	ALL CONDUITS SERVING ROOF-MOUNTED EQUIPMENT SHALL BE EXTENDED INSIDE THE UNIT CURBS TO AVOID ADDITIONAL PITCHPANS. ALL EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR LIQUID TIGHT FLEXIBLE CONDUIT AS SPECIFIED.
I.	DATA/TELEPHONE/TV OUTLETS SHALL BE INSTALLED WITH 3/4" CONDUIT EXTENDED TO AN ACCESSIBLE POINT ABOVE CEILING AND PROVIDED WITH PULL STRING. COORDINATE ALL TELEPHONE, TV AND DATA LOCATIONS WITH OWNER. PROVIDE INSULATED BUSHING ON BOTH ENDS OF CONDUIT.
J.	WHERE GFCI PROTECTION IS REQUIRED BY CODE AND CONNECTION IS LOCATED BEHIND EQUIPMENT. CONTRACTOR SHALL PROVIDE GFCI CIRCUIT BREAKER IN LIEU OF GFCI OUTLET.
K.	ALL RECEPTACLES IN AREAS SPECIFIED SHALL BE TAMPER RESISTANT INCLUDING: HOTEL GUEST ROOMS, DWELLING UNITS, CHILD CARE FACILITIES, PRESCHOOL/ELEMENTARY EDUCATION FACILITIES, MEDICAL CLINICS, MEDICAL OFFICES, MEDICAL OUTPATIENT FACILITIES, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES AS REQUIRED BY NEC ARTICLE 406.12
KEYED NOTES	
1.	EXTEND AND CONNECT TO EXISTING BRANCH RECEPTACLE CIRCUIT SERVING AREA.
2.	NEW HONEYWELL FIRE ALARM DEVICE (MATCH EXISTING). EXTEND AND CONNECT TO FIRE ALARM CONTROL PANEL AS REQUIRED. COORDINATE REQUIREMENTS WITH FIRE ALARM CONTRACTOR.
3.	EXTEND AND CONNECT TO EXISTING 120V PANEL SERVING AREA. PROVIDE 20A/1P GFCI CIRCUIT BREAKER (MATCH EXISTING) AS REQUIRED.
4.	NEW 208V, 10 MINI SPLIT UNIT "MS-1". EXTEND AND CONNECT TO EXISTING 120/208V PANEL SERVING AREA. PROVIDE 15A/2P CIRCUIT BREAKER (MATCH EXISTING) IN EMPTY SPACE. CONTRACTOR SHALL EXTEND CONDUIT FROM OUTDOOR UNIT TO INDOOR UNIT AS REQUIRED BY MANUFACTURER AND NEC.
5.	PROVIDE NEW TYPED INDEX CARD FOR PANEL INDICATING LOADS.



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109

FINCHER ENGINEERING, LLC
WWW.FINCHERENG.COM



606 WEST PIERCE ST.
SUITE 200
HOBBBS, TX 76033
PH: 575.885.4775
FAX: 575.885.4827

220 BROADWAY ST.
SUITE 404
HOBBBS, TX 76033
PH: 575.433.4775
FAX: 575.433.4777

www.npsrpro

NPSR ARCHITECTS, Inc.

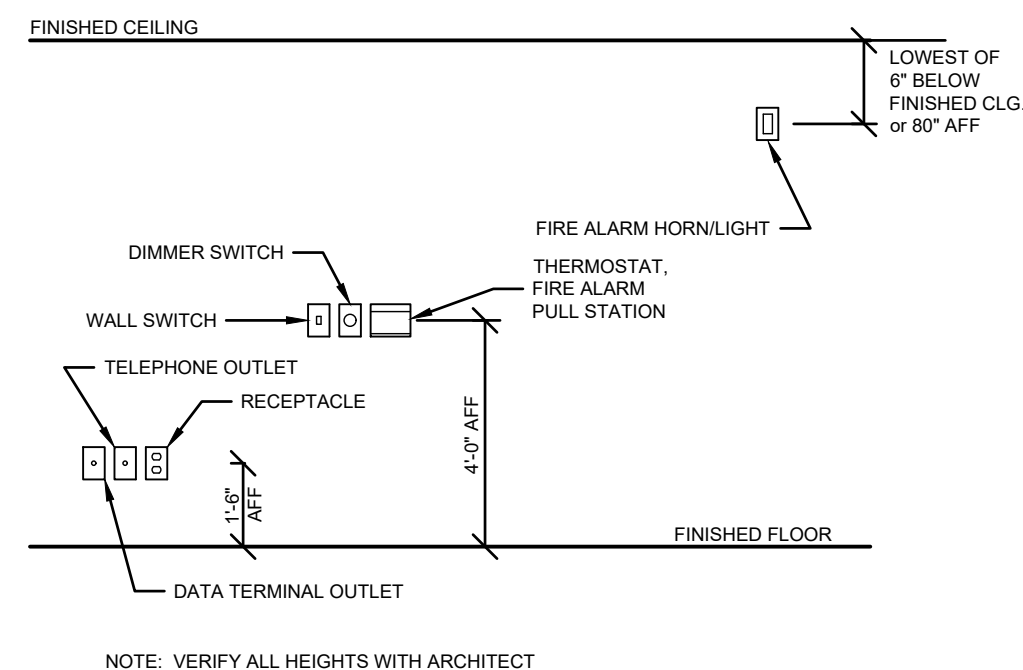
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

DATE	DESCRIPTION
05-30-23	CONSTRUCTION DOCUMENTS

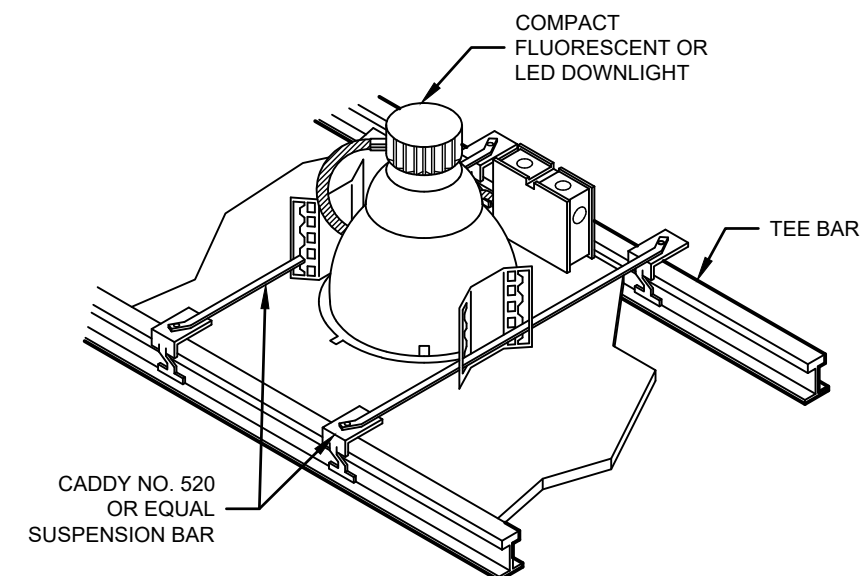
PROJECT NO: FE
DRAWN BY: FE
CHECKED BY: FE
APPROVED BY: FE

SHR TITLE: **E104**
ELECTRICAL
SHEET **6** OF **8**

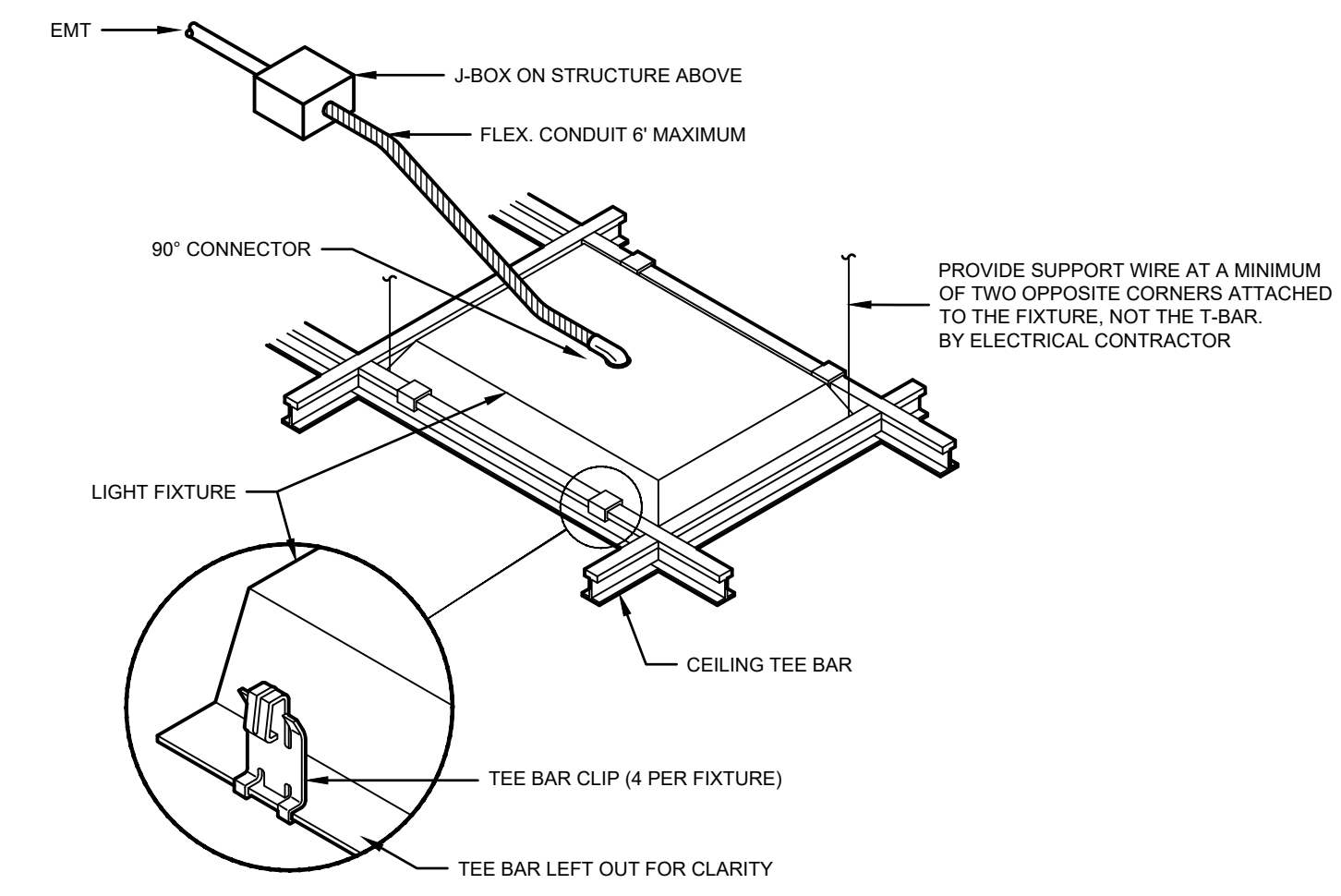
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NPSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NPSR Architects, Inc.



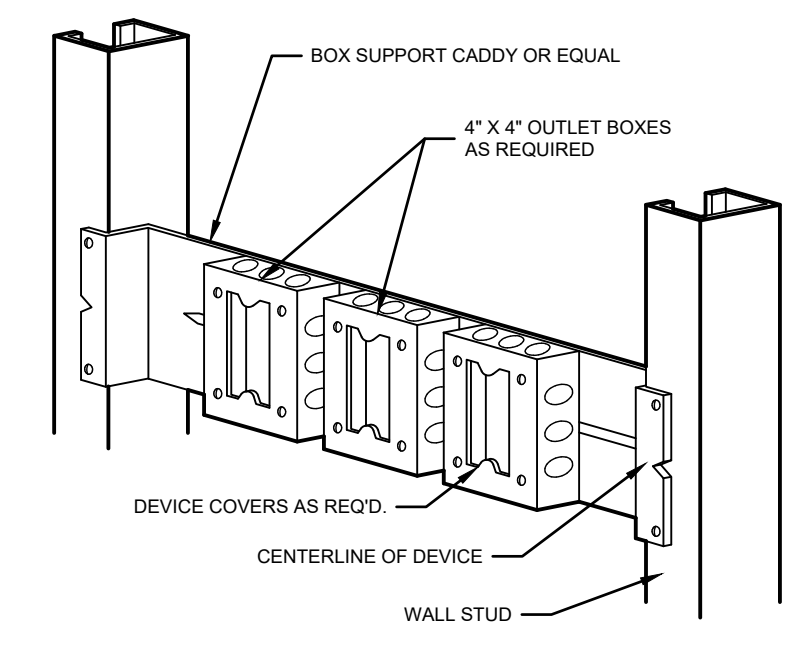
WIRING DEVICE MOUNTING HEIGHTS - TYPICAL
NO SCALE



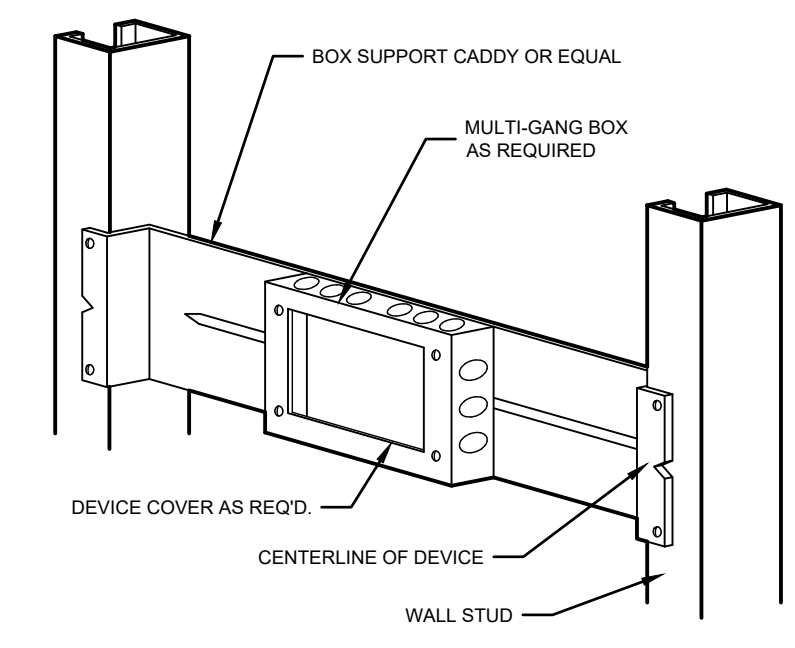
DOWNLIGHT DETAIL
NO SCALE



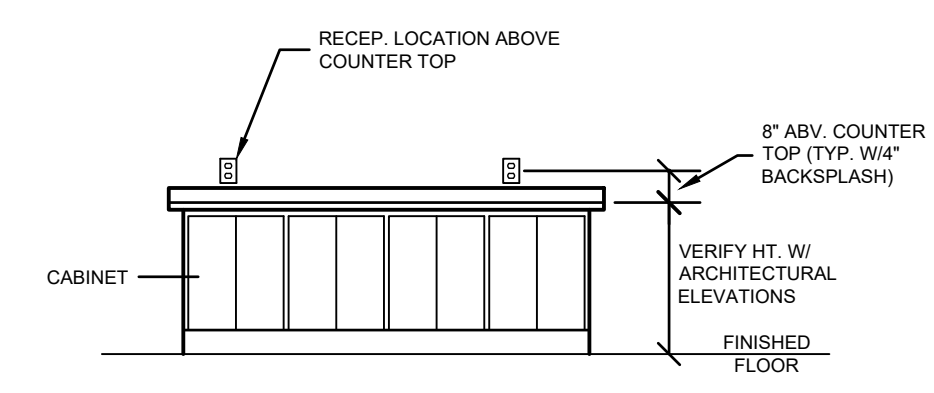
LAY-IN LIGHT FIXTURE DETAIL
NO SCALE



MULTIPLE OUTLET BOX DETAIL
NO SCALE



MULTI-GANG OUTLET BOX DETAIL
NO SCALE



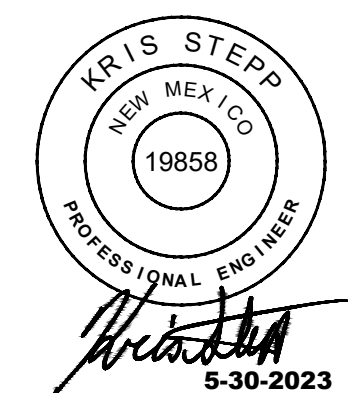
WIRING DEVICE MOUNTING HEIGHT
NO SCALE

BREAKER	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	175	200	225	300	400
PHASE	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#8	#6	#6	#6	#6	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"

- NOTES:
 1. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.
 2. ALL 120V LIGHTING AND POWER CIRCUITS OVER 75' SHALL BE #10 THHN.
 3. LOCAL DISCONNECT SIZES SHALL BE BASED ON CIRCUIT BREAKER RATING/SIZE.

LIGHTING CONTROL DETAILS			
ROOMS WITH THESE LIGHTING CONTROL SYMBOLS (REFER TO PLAN FOR EXACT QUANTITIES)	TYPICAL LOCATION (REFER TO PLAN FOR EXACT LOCATIONS)	LIGHTING CONTROL DESCRIPTION	EXAMPLE MODEL #S
$\$V$ $\$O$ $\$D$ $\$VD$	STORAGE	WALL MOUNTED WALL BOX CONTROL WITH VACANCY/OCCUPANCY SENSOR. "D" INDICATES DIMMER SWITCH.	SWITCH (VD): LUTRON MS-Z101 SWITCH (O AND V): LUTRON MS-A102 SWITCH (D): LUTRON LOW VOLTAGE DIMMER

NOTES:
 A. REFER TO MANUFACTURER'S DETAILS FOR LIGHTING CONTROL WIRING DIAGRAMS.
 B. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER PRIOR TO ROUGH-IN OF ANY CONDUIT OR WIRING FOR LIGHTING SYSTEM TO VERIFY WIRING REQUIREMENTS WITH LIGHTING CONTROL SYSTEM PROVIDED ON PROJECT. SENSOR SHALL PROVIDE COVERAGE OF ROOM/AREA. PROVIDE ADDITIONAL SENSORS AS REQUIRED BY MANUFACTURER.
 C. LIGHTING CONTROL SYSTEM TO BE FULLY COMMISSIONED AND PROGRAMMED BY FACTORY TRAINED MANUFACTURERS REPRESENTATIVE. PROVIDE COMPLETE TRAINING TO OWNER. CONTRACTOR SHALL CONTACT MANUFACTURER AT LEAST 3 WEEKS PRIOR TO COMPLETION OF WORK TO SCHEDULE COMMISSIONING.



FINCHER ENGINEERING, LLC
 TX FIRM #F-16408
 5621 114TH ST., SUITE 100
 LUBBOCK, TX 79424
 PH: 806-701-5109
 WWW.FINCHERENG.COM

NPSR ARCHITECTS, Inc.
 606 WEST PIERCE ST.
 SUITE 230
 LUBBOCK, TX 79401
 PH: 806-775-8854
 FAX: 806-775-8854
 220 BROADWAY ST.
 SUITE 200
 HOBBBS, TX 76030
 PH: 806-775-4334
 FAX: 806-775-4334
 WWW.NPSR.PRO

LOCKER ROOM RENOVATIONS
 FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
 HOBBS, NEW MEXICO
 1400 E. SCHARBAUER ST.

PROJECT NO.:	FE
DRAWN BY:	FE
CHKD BY:	FE
APPROVED BY:	FE

DATE: 05-30-23
 DESCRIPTION: CONSTRUCTION DOCUMENTS

SHR TITLE: **E105**
ELECTRICAL
 SHEET 7 OF 8

ELECTRICAL SPECIFICATIONS

- I. GENERAL:**
- A.** The work shall include furnishing and installing all electrical work, including final connections to all devices and placing them in service. All work shall conform to local, state and national codes as interpreted by the authorities having jurisdiction. All materials shall be UL labeled and listed.
- B.** Comply with requirements of the 2017 National Electrical Code in the construction and installation of all work.
- C.** All major electrical service equipment specified herein shall be Square D or approved equal from Cutler Hammer or Siemens. This includes panelboards, disconnect switches, and circuit breakers. Obtain Owner's approval for substitutions.
- D.** All equipment shall be installed in a location and manner that shall allow for convenient access for maintenance and inspection. Access doors and panels in walls and ceilings shall be provided as required for concealed equipment, controls, and boxes.
- E.** Make all payments for fees, permits and deposits for electrical work. Coordinate with local electrical utility to provide all equipment and pay all costs required to extend service from power company facilities to building including meter bases and conduit for meter conductors, CT meter cabinets, and other equipment deemed necessary by the utility company.
- II. MATERIALS:**
- A. CONDUITS:**
- Underground Plastic Conduit: Type 40, Heavy wall, high impact rigid virgin polyvinyl chloride (PVC) conduit and fittings, conforming to NEMA Publications TC2 and TC3 and UL listed for direct burial use; Carlon or equivalent. Type 80 PVC to be used under driveways.
 - Rigid Steel Conduit: Rigid, threaded, thick-walled; galvanized inside and outside or galvanized outside with a protective coating in UL listed and labeled according to Standard UL6, conforming to ANSI Standard C80.1, Pittsburgh, Republic Steel, Robroy or Allied.
 - Electrical Metallic Tubing (EMT): Steel tubing, galvanized outside and provided with a slick corrosion resistant interior coating; UL listed and labeled according to Standard 797, conforming to ANSI Standard C80.3, Pittsburgh, Republic Steel, Robroy or Allied.
 - Liquidtight Flexible Metal Conduit, Spirally wound, galvanized steel strips, as for flexible metal conduit; with polyvinyl chloride Cover extruded over the exterior to make conduit liquidtight; UL listed, Electri-flex type "LA" or equivalent.
 - Minimum conduit size shall be 3/4" unless noted otherwise.
 - MC cable is only allowed for factory installed light fixture whips.
- B. CONDUIT FITTINGS:**
- Couplings and Terminations for Rigid Steel conduit: Factory made steel threaded couplings; bushing at all boxes and cabinets, with locknuts inside and outside box or cabinet.
 - Couplings and Terminations for Electrical Metallic Tubing: Join lengths of EMT with steel, compression couplings and connectors.
 - Couplings and Terminations for Flexible Metal Conduit: T&B 440 Series couplings at connections between flexible and rigid conduit; T&B 3110 or 3130 Series nylon insulated throat, steel connectors at box or cabinet terminations.
- C. OUTLET BOXES:**
- Sheet Steel Boxes: Sheet steel not lighter than No. 14 gauge, galvanized after fabrication; Raco, Steel City Appleton.
 - Cast Metal Boxes: Cast iron or Cast alloy with threaded hubs; Crouse-Hinds, Appleton or Pylo National.
- D. PULL BOXES AND JUNCTION BOXES:**
- Sheet steel, galvanized inside and outside, with galvanized covers.
 - Small boxes: For boxes where the volume required is not over 100 cubic inches, use standard outlet boxes.
 - Large boxes: For boxes where the volume required is over 100 cubic inches, use cabinets as specified for panelboard cabinets with covers of same gauge as boxes, secured with corrosion resistant bolt or screws.
- E. FLOOR BOXES: 4 Gang**
- | DEVICE | CATALOG NO. |
|---------------------|-------------------|
| 1.1 Floor Box | Hubbell CFB4G30 |
| 1.2 Floor Box Cover | Hubbell 24GCCVRBK |
- F. CONDUCTORS (600 VOLTS AND UNDER):**
- Type: Soft drawn, annealed copper, UL listed, rated at 600 volts, Okonite, Triange, Anaconda or Simplex No. 8 and larger shall be stranded; No. 10 and smaller may be solid.
 - Insulation: Branch circuits shall have type THHN insulation. Service feeders shall be type THHN or THWN. Feeder circuits shall be Type THHN.
- G. JOINTS AND SPLICES:**
- Stranded Copper Conductors: UL approved solderless bolted pressure connectors or Thomas and Betts Series 54000 compression connectors. All connectors shall be properly sized to match conductor sizes. All compression connectors shall be applied with properly sized dies and tools.
 - Solid Copper Conductors: UL approved solderless bolted pressure connectors: or UL approved electrical spring connectors of "Scotchlok", Ideal or T&B "Poggy" make.
- III. COLOR CODING:**
- Phase conductors shall be black, red, and blue for Phases A, B, and C respectively in the 208 volt system.
 - Neutral conductors shall be white or gray. Grounding conductors shall be green.
 - Switch legs shall be black with white, red with white or blue with white depending on phase.
 - All wiring No. 8 and larger shall be black and be marked with color banding tape as specified. All phase conductors, neutral and electrical ground conductors shall be marked with colored tape. Apply marking at each termination and every four feet of wiring in raceways.
- IV. MATERIALS:**
- A. WALL SWITCHES:**
- | DEVICE | CATALOG NO. |
|-----------------------------|----------------|
| 1.1 Single pole Wall Switch | Hubbell 1221-1 |
| 1.2 Three-way Wall Switch | Hubbell 1223-1 |
- A. RECEPTACLES:**
- Receptacle, 20 Ampere, 125 Volt, 2 Pole, 3 Wire Grounding Duplex: Hubbell No. PRO5362W or PRO5362-I (NEMA 5-20R).
 - Receptacle, 20 Ampere, 125 Volt, 2 Pole, 3 Wire Grounding Duplex with Self-Contained Ground Fault Circuit Interrupter: Hubbell No. GF-20WLA or GF-20LA.
 - Outdoor Receptacle with Self-Contained Ground Fault Circuit Interrupter: Hubbell No. HBL5362WWR in FS or FD cast box with gasketed lift covers: Hubbell HBL5206W0
 - Receptacle, 20 Ampere, 125 Volt, 2 Pole, 3 Wire Grounding Duplex with USB port: Hubbell No. USB20x2
- B. COVERPLATES:**
- Hubbell SS8 line stainless steel wall plates shall be used and shall be galvanized steel plates if surface mounted. All switches controlling motorized equipment shall have engraved nameplates.
 - Coordinate decorative coverplate finishes and locations with Owner.
 - Provide engraved coverplates as required by Owner.
 - Coordinate exact color of device with Architect and Owner.
- V. PANELBOARDS:**
- A. MATERIALS:**
- Panelboard Cabinets: Furnish and install cabinets to serve the various panelboards, of sizes as required to house the panelboards. Cabinets shall be rigidly constructed of sheet steel of gauges conforming to Underwriters Laboratories Inc. requirements; corners over-lapped or welded; edges turned over to receive trim.
 - Cabinet Fronts: Cut from single sheet of not less than No. 12 gauge cold-rolled sheet steel, fastened in place by adjustable trim clips which will allow plumbing; same size as the cabinet box; size to overlap the box a minimum of 3/4" on all sides if flush mounted. Provide each door with a substantial flush, cylinder tumbler lock and catch. On doors more than 48" high, provide a combination three point catch and lock with T-handle. Provide each lock with two keys, with all locks keyed alike.
 - Finish: All back boxes galvanized; all exposed metal, including fronts, primed and finished in gray lacquer.
 - Where a circuit protective device is scheduled as a "space", provide the device complete for operation. Where such a device is scheduled as a "space" or "space only", provide proper space and all necessary connectors for future installation of the size of device scheduled. Where a breaker or switch is scheduled to serve a "future" load, provide the device complete for operation.
 - All circuit breakers shall be quick make, quick break, trip free, thermal magnetic, indicating type unless noted otherwise. Branch circuit breakers shall be fully interchangeable without disturbing adjacent units.
 - Connect all circuit interrupting devices with sequence phasing.
 - Provide each panelboard with a neatly typewritten directory of circuits mounted in a cardholder on the inside of the panelboard cabinet. Provide circuit descriptions as required by NEC 408.4.A. Cover directory with transparent sheet plastic.
 - All panelboards shall be listed by Underwriters Laboratories Inc.
 - Provide each panelboard with a factory engraved nameplate which shall identify the panelboard name.
 - All bussing shall be copper.
 - Main disconnect circuit breakers shall be 100% rated.
 - Panel and circuit breakers shall be "fully rated". "Series rated" not acceptable.
 - Equipment manufacturer shall provide Arc Flash Calculations and Labeling.
 - Equipment manufacturer shall provide main circuit breakers settings/adjustments: Continuous amps, Short time pickup, Instantaneous pickup, Long time delay, Short time delay, and Ground fault pickup)
- B. LIGHTING AND APPLIANCE PANELBOARDS:**
- Panelboards shall have the number and size of bolted-in circuit breakers as scheduled. Panels shall be Square D, type NODD or approved equal with bolt-on breakers, or approved equal, as required for the interrupting ratings schedules or equivalent.
- VI. LIGHTING CONTACTORS:**
- Electrically held with 120 volt coil in NEMA I Enclosure.
 - Allen Bradley, ASCO, Square D.
 - Control for contractor shall be photocell and optionally, remote switch mounted at owner specified location.
 - Provide number of poles as required.
- VII. INTERIOR LIGHTING FIXTURES:**
- A. MATERIALS:**
- Provide and install a lighting fixture on each lighting outlet shown. Furnish fixtures in accordance with the designations on the drawings and as specified herein. All features specified or scheduled for fixtures shall be provided, even if the catalog number given in the specifications or schedule lacks the required numerals, prefixes or suffixes corresponding to the features called for.
 - All lighting fixtures shall bear the label Underwriters Laboratories Inc.
 - Fixtures shall comply with ANSI 132.1.
- VIII. DISCONNECT SWITCHES:**
- Disconnecting switches shall be manufactured by Square D (or equal). Switches shall be heavy duty, enclosed type, rated for 250 volts. Switches used as service switches shall bear a UL service entrance label and nameplate shall so indicate.
 - Fused switches shall have rejection type fuseholders. Fuses for power equipment shall be UL RK-5 dual element, time delay, current limiting, Buss FRN-RFRS-R equivalent.
 - Disconnects serving air conditioning and refrigerating equipment, installed in locations readily accessible to unqualified persons, shall require a tool to open or be capable of being locked.
- A. STARTER/DISCONNECT SWITCHES:**
- Starter/disconnect: Starter/disconnect shall be manufactured by Square D (or equal).
 - Switch or dial selectable for motor running overload protection.
 - Sensor for each phase.
 - Electronic type with voltage and current unbalance/single phasing motor protection.
 - Disconnects shall be heavy duty rated as indicated above.
- IX. EXECUTION:**
- A. EXCAVATION:**
- Perform all excavation work required in connection with the installation of the work under this Division. After the electrical work has been installed, tested, and approved, backfill all sidewalks, streets and other pavement and repairing the openings in them to return to the surface to approximately its original condition.
 - Perform all excavations of every description of whatever substances encountered and to the depths required for installation of the work. During excavation, stack material suitable for backfilling in an orderly manner a sufficient distance from the banks of the trenches to prevent slides or cave-ins. Remove all excavated material not required or suitable for backfill, or waste as directed. Control grading to prevent surface water from flowing into excavations and remove any water accumulating therein by pumping.
 - Use open-cut grading and make trenches of the necessary width for proper installation of the lines with banks as nearly vertical as possible.
 - Grade the bottom of trenches accurately to provide uniform bearing and support for conduit or duct on undisturbed soil at every point along its entire length.
- B. BACKFILLING:**
- Generally backfill trenches with earth, sandy clay, sand and gravel, safe shale, or other approved material free from large clods of earth or stone, deposited in thoroughly and carefully rammed 6-inch layers. Do not use blasted rock. Compaction with water will be permissible and will be a requirement when so directed. Re-open any trenches improperly filled or where settlement occurs to the depth required for proper compaction, the refill, mound over and smooth off.
 - Backfill open trenches and other areas to be paved as specified above except that the entire depth of trench shall be backfilled in 6-inch layers; each layer moistened and compacted to a density of not less than 95 % Standard Proctor in such manner as to permit the rolling and compaction of the filled trench together with the adjoining earth to provide the required bearing value and permit paving of the area immediately after backfilling is completed. Along all other portions of the trenches, grade the ground to a reasonable uniformity and leave the mounding over the trenches in a uniform and neat condition.
- C. INSTALLATION OF UNDERGROUND PLASTIC CONDUIT:**
- Plastic conduit approved for direct burial (Schedule 40) may be used in or under slab-on-grade or for underground branch circuits if local codes permit. Minimum size is 3/4 inch.
 - Install exterior conduits 24 inches below finished grade unless noted to the contrary. Assemble and install raceways in accordance with manufacturer's instructions. Make joints with couplings and solvent cement. Fabricate bends of 30 degrees or more with factory-made elbows, or make field bends with proper heating equipment. Bends showing signs of overheating or flattening are unacceptable. Ream ends of all conduit before joining.
 - Snake plastic conduit in trench, from side to side, with a complete cycle every 40 feet to allow for expansion and contraction. Maintain this configuration during backfilling.
 - Where conduit turns up out of earth, or floor slabs, change from plastic to rigid galvanized steel conduit below grade. Do not extend any plastic conduit above grade. Wrap all steel conduits and fittings buried in earth as specified elsewhere herein.
- D. INSTALLATION OF UNDERGROUND STEEL CONDUIT:**
- All steel conduit in earth shall be rigid galvanized steel conduit. Wrap such conduit with 3M Company 0.020 inch thick No. 51 "scotchwrap" vinyl plastic tape, half lapped to give a double thickness wrap. Remove all oil, grease, and dirt from conduit with a suitable solvent, and clean and dry conduit before wrapping. If conduit is pre-wrapped in the shop and then cut and joined on the job, wrap all joints on the job, overlapping pipe wrapping 3" on both sides of joints.
- E. INSTALLATION OF BUILDING RACEWAYS:**
- All wiring of every description shall be run in conduit or electrical metallic tubing unless noted or specified otherwise. Conduits may be run exposed in machinery and electrical rooms and unfinished areas. All other conduits shall be run concealed unless otherwise noted. All exposed runs shall be installed parallel to the surface of the building in a neat and orderly manner.
 - Types: All conduits installed outside shall be rigid galvanized steel conduits. Above grade interior conduits shall be electrical metallic tubing. Conduits installed below grade in slabs or buried in earth shall be PVC or rigid galvanized steel. Ent is not allowed.
 - Connections: Use lengths of flexible metal conduit, not less than 12" long at final connections to all motors, controls, and other devices subject to movement because of vibration or mechanical adjustment. Use flexible metal conduit also at connections to recessed lighting fixtures, and elsewhere as required. In damp or wet locations, and where installed outdoors, use liquid flexible metal conduit.
 - Penetrations: Wherever raceways pass through floors, walls, partitions, etc., carefully fill any space between the outside of the raceway and the building material to prevent passage of air, water, smoke, and fumes. Filling material shall be fire resistive and, in general, similar to the basic building materials through which the raceway passes.
- F. CONDUIT SUPPORTS:**
- Support Spacing: Use minimum spacing as directed by National Electrical Code, but space hangers more closely where required by conditions.
 - Individual Conduits: Support conduits running vertically or horizontally with galvanized malleable iron one-hole clamps. Carry individual supported horizontally conduits 1'-14" and larger on Kindor No. 150 or Steel City No. C-145 hangers. Use no perforated strap iron as hanger material. Where conduits smaller than 1'-1/4" are installed above non-removable type ceilings, they may be supported on ceiling runner channels.
 - Multiple Conduits: Where multiple raceways are run horizontally at the same elevations, they may be supported on brackets formed of sections of Unistrut angle iron or channels suspended on rods or pipes. Size brackets members including the suspension rods for the number size and loaded weight of the conduits they are to support. Space them as required for the smallest conduit supported.
- G. INSTALLATION OF OUTLET BOXES:**
- Usage: provide at each outlet or device of whatever character a metal outlet box in which conduits shall terminate.
 - Boxes: Recessed metal boxes.
 - For Wall Switches, Receptacles, and Communications Use: Use 4"x4" size with proper square cornered tile wall cover, plaster cover, or finishing plate, except where construction will not permit or the device requires a larger box.
 - Boxes for Exposed Work: Cast metal boxes.
 - Boxes for Outdoors: Cast metal boxes with gasketed covers.
- H. WIRE PULLING:**
- Wire Pulling: Provide suitable installation equipment for pulling conductors into raceways or conduits. Use ropes of polyethylene, nylon, or other suitable material to pull in conductors. Attach pulling lines to conductors by means of woven basket grips or by pulling eyes attached directly to conductors. All conductors to be installed in a single conduit shall be pulled in together.
 - Cable Lubricants: All cable lubricants shall be UL listed, and shall be certified by their manufacturer to be non-injurious to the insulation on which they are used.
- I. INSTALLATION OF BUILDING WIRE (600 VOLTS AND UNDER):**
- Feeders: Run all feeders the full length in continuous pieces without joints or splices, as far as practical.
 - Sizes: No wire shall be smaller than No. 12 except for signal or control circuits, and except for individual lighting fixture taps as permitted by the National Electrical Code.
 - Identifying Tags: Nonferrous, stamped or clearly identify each circuit. Securely fasten tags to all cables, feeders, and power circuits in pull boxes, lighting, power, and distribution panelboards, etc.
 - Bundling Conductors: Bundle all conductors in panelboards, cabinets, and the like, using marlin twine lacing or nylon straps made for the purpose. Bundle conductors larger than No. 10 in individual circuits. Bundle smaller conductors in larger groups.
 - All 120V and 277V circuits shall be provided with dedicated neutral wire for each circuit breaker.
- J. MOUNTING HEIGHTS:**
- Where mounting heights are indicated on the drawings, the device shall be installed with the centerline of the device at the indicated height.
 - In general, devices which are shown to be installed at counters or other millwork, shall be mounted at 8" above counter, unless noted. Wall switches shall be installed on the strike side of the door as finally hung.
 - Unless otherwise noted on the drawings by the Owner, install devices at the following heights.

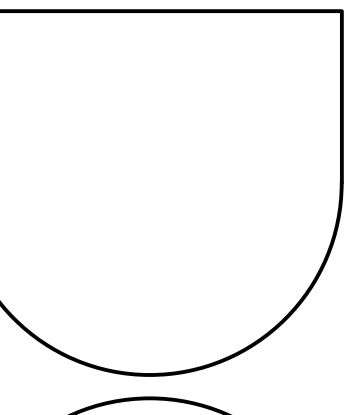
DEVICE	MOUNTING HEIGHT
Wall Switch	4'-0"
Receptacle	18"
Telephone Outlet	18"
 - Observe all ADA requirements when mounting devices in areas designated as "handicap".
- X. SERVICE CONNECTIONS:**
- Coordinate all requirements for the electrical service with utility provider and include all cost associated with the underground electrical service.
- XI. LOAD BALANCING:**
- The contractor shall carefully balance his electrical loads between the various phases. When the facilities are under use at their heaviest loading periods, tests shall be run on the "hot" conductors in each feeder to a panel and any unbalance shall be corrected to a point that no conductor's load shall be more than 10% high or low (maximum unbalance of 20%) in amperes
- XII. SERVICE AND EQUIPMENT GROUNDING:**
- Provide adequate and permanent service neutral and equipment grounding in accordance with the National Electrical Code, and subject to the following additional requirements.
 - Connect the service ground and equipment ground to a common point in the metallic enclosure containing the main service disconnecting means. From the common connection of the service ground and equipment ground, run in conduit a combined service and equipment grounding conductor without joint of splice to the main water service pipe and connect it thereto with an approved bolted pressure clamp. Clean all contact surfaces thoroughly before connection, to assure good metal to metal contact. Bond the conduit to the grounding conductor at each end. Supplement the water pipe ground with an additional electrode which shall be 10' long by 3/4 inch diameter copper clad steel rod. Attach the electrode to the water pipe and to the service equipment grounding conductor.
 - Size grounding conductors in accordance with National Electrical Code Tables 250-94 and 250-95.
 - The building structure steel frame shall be grounded to the building service ground electrode, using the conductor size specified in National Electrical Code Section 250-94 (a).
- XIII. GROUNDING RACEWAYS:**
- Assure the electrical continuity at all metallic raceway systems, pulling up all conduits and/or locknuts wrench tight. Where the flexible metallic conduit is employed, provide a green-insulated grounding jumper installed in the flexible conduit. Install a separate green-insulated conductor in each nonmetallic conduit.
 - Provide grounding bushings on all service raceways terminating within panelboards, cabinets, and all other enclosures. Provide grounding conductors from such bushings to the frame of the enclosure and to the ground bus or equipment grounding strap. Size grounding conductors in accordance with NEC Table 250-95.
- XIV. EQUIPMENT GROUNDING CONDUCTORS:**
- Provide a separate, green-insulated copper grounding conductor, with insulation of the same rating as phase conductors, for each feeder and for each branch circuit indicated. Install the grounding conductor in the same raceway with the related phase and neutral conductors, and connect the grounding conductor to pull boxes at intervals of 100 feet or less, to each raceway. Connect all grounding conductors to bare grounding bars in panelboards, and to ground buses in service equipment to the end that there will be an uninterrupted grounding circuit from the point of a ground fault back to the point of connection of the equipment ground and system neutral. Size all these grounding conductors per NEC Table 250-95.
- XV. EQUIPMENT WIRING:**
- Connect complete for operation all items of heating and air conditioning and all other electrical devices furnished by the Owner or under other Divisions of the specifications. Refer to mechanical and plumbing sheets for exact equipment locations and equipment type. Refer to the Owner and to the various Contractors for the work under the other Divisions for the scope of connections to equipment furnished by them and for the exact locations of all items.
 - Where disconnect switches or circuit breakers are not provided integral with control equipment for motors and other electrical appliances, provide and install all disconnect switches required by the National Electrical Code and/or as indicated.
 - All 120V and 277V circuits shall be provided with dedicated neutral wire for each circuit breaker.
- XVI. TEMPERATURE CONTROL:**
- Completely connect for operation all items for temperature controls which require electrical connections, furnishing all wiring, conduit, and labor. All control wiring, including thermostat wiring, shall be in conduit.
- XVII. COMMUNICATION AND CONTROL CIRCUITS:**
- Provide and install conduit to and from outlet boxes for telephone outlets shown on drawings. Installation of the system will be by others.
- XX. EXISTING FIRE ALARM SYSTEM:**
- Existing fire alarm system is a "HONEYWELL" system. Field verify existing conditions.
 - The new fire alarm devices shall match the existing equipment and shall be u.l. listed for use with the existing fire alarm equipment. All new devices shall match the existing functionality of the existing equipment and shall match in appearance.
 - Provide upgrades to the existing equipment as necessary to support the number and type of new devices as required. This shall include but not be limited to adding modules, expanders, power supplies or complete replacement of the equipment as required.
 - All wiring, classification and connections shall match the existing class and style of wiring.
 - All fire alarm wiring shall be installed in conduit.
 - The entire fire alarm system shall be re-certified after the completion of the work.
- XVIII. LIGHTING CONTROLS:**
- Provide and install a lighting control device for every lighting control device shown. Furnish device in accordance with the designations on the drawings and as specified herein. All features specified or noted for lighting control device shall be provided, even if the catalog number given in the specifications or note lacks the required numerals, prefixes or suffixes corresponding to the features called for.
 - Low voltage control wiring shall be installed in conduit separate from 120v or 277v wiring. In areas with lay-in or hard ceilings extend conduit to an accessible point above ceiling. In areas with exposed or partially exposed ceilings, all control wiring shall be installed in conduit.
 - The lighting control system shall be field service by manufacturer. Upon completion of the installation, the system shall be completely examined by a factory authorized or trained field service technician(s). This engineering check-out (ECO) shall be performed upon receipt of written notification to manufacturer that all load and control wires have been installed and tested, and all elements of the project are prepared and ready in accordance with supplied Notice to the Contractor instructions. One on-site ECO will be performed unless specifically written and outlined otherwise on the Purchase Order. Upon completion of the ECO, the technician(s) shall demonstrate the operation and maintenance of the system to the owner's representatives

ELECTRICAL SYMBOL SCHEDULE	
	2x4 RECESSED LIGHT FIXTURE
	2x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP
	1x4 LINEAR LIGHT FIXTURE
	1x4 LINEAR LIGHT FIXTURE WITH BATTERY BACK-UP
	DOWN LIGHT FIXTURE
	DOWN LIGHT FIXTURE WITH BATTERY BACK-UP
	WALL MOUNTED LIGHT FIXTURE
	EMERGENCY FIXTURE
	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING
	SPST WALL SWITCH
	DIMMING SWITCH
	OCCUPANCY SENSOR SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	OCCUPANCY SENSOR
	POWER PACK
	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, GROUNDING
	ABOVE COUNTER (VERIFY WITH ARCHITECTURAL)
	DUPLEX RECEPTACLE WITH GFCI
	CEILING MOUNTED RECEPTACLE
	DUPLEX RECEPTACLE WITH WEATHER-PROOF COVER
	DUPLEX RECEPTACLE MOUNTED AT INDICATED HEIGHT
	JUNCTION BOX
	DISCONNECT SWITCH
	CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN
	CIRCUIT INDICATOR
	SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	RECESSED MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	WALL MOUNTED TELEPHONE/DATA OUTLET
	TELEVISION OUTLET
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	FIRE ALARM CONTROL PANEL
	REMOTE FIRE ALARM ANNUCIATOR PANEL
	FIRE ALARM PULL STATION
	FIRE ALARM AUDIBLE/STROBE UNIT
	FIRE ALARM STROBE UNIT
	FIRE ALARM SMOKE DETECTOR

ALL ELECTRICAL DEVICES SHOWN DASHED, OR ON DASHED WALLS, ALONG WITH ALL WIRING AND CONDUIT ASSOCIATED WITH DEVICE SHALL BE REMOVED BACK TO POINT OF ORIGIN UNLESS NOTED OTHERWISE.

ELECTRICAL ABBREVIATIONS	
ABOVE COUNTER	AC
ABOVE FINISHED FLOOR	AFF
ALTERNATING CURRENT	AC
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM
AMERICAN WIRE GAUGE	AWG
AMPERE	AMP
AMPHOUR	AH
AMPERE INTERRUPTING CAPACITY	AIC
ARC FAULT CIRCUIT INTERRUPT	AFCI
AUTHORITY HAVING JURISDICTION	AHJ
AUTOMATIC TRANSFER SWITCH	ATS
BATTERY	BAT
BUILDING AUTOMATION SYSTEM	BAS
CEILING	C
COAXIAL CABLE	COAX
COLOR RENDERING INDEX	CRI
COMMUNICATIONS	COMM
CONDUIT	CON
CONTROL	CTRL
COPPER	CU
CURRENT TRANSFORMER	CT
DECIBEL (SOUND)	dB
DEMOLITION	DEMO
DIRECT CURRENT	DC
DOUBLE POLE, DOUBLE THROW	DPDT
DOUBLE POLE, SINGLE THROW	DPST
ELECTRIC	ELEC
ELECTRICAL METALLIC TUBING	EMT
ELECTRICAL NONMETALLIC TUBING	ENT
FIRE ALARM ANNUCIATOR PANEL	FAAP
FIRE ALARM CONTROL PANEL	FACP
FLEXIBLE METALLIC CONDUIT	FMC
FOOTCANDLE	FC
FULL LOAD AMPS	FLA
GAUGE	GA
GROUND	GND
GROUND FAULT CIRCUIT INTERRUPTER	GFCI
HORSEPOWER	HP
INTERMEDIATE METAL CONDUIT	IMC
INTERNATIONAL BUILDING CODE	IBC
KILOVOLT	kV
KILOVOLT AMP	kVA
KILOWATT	kW
KILOWATT HOUR	kWh
LIQUIDTIGHT FLEXIBLE METAL CONDUIT	LFMC
LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	LFNC
LOW VOLTAGE	LV
LUMENS	LM
LUMENS PER WATT	LPW
MAIN CIRCUIT BREAKER	MCB
MAIN LUGS ONLY	MLO
MINIMUM	MIN
MINIMUM CIRCUIT AMPS	MCA
MOTOR CONTROL CENTER	MCC
NATIONAL ELECTRICAL CODE	NEC
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEMA
NATIONAL FIRE CODE	NFC
NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
NOTIFICATION APPLIANCE CIRCUIT	NAC
PANELBOARD	PAB
PHASE	PH
POLY VINYL CHLORIDE	PVC
POWER FACTOR	PF
PUBLIC ADDRESS	PA
RECEPTACLE	RECEPT
RIGID GALVANIZED STEEL	RGS
RIGID NONMETALLIC CONDUIT	RNC
SINGLE PHASE	1Ø
SINGLE POLE, DOUBLE THROW	SPDT
SINGLE POLE, SINGLE THROW SWITCHBOARD	SPST
SWITCHBOARD	SWBD
THREE PHASE	3Ø
TELEPHONE TERMINAL BOARD	TBT
UNINTERRUPTIBLE POWER SUPPLY	UPS
VARIABLE FREQUENCY DRIVE	VFD
VOLT, VOLTS, VOLTAGE	V
VOLT AMPERE	VA
WEATHERPROOF	WP

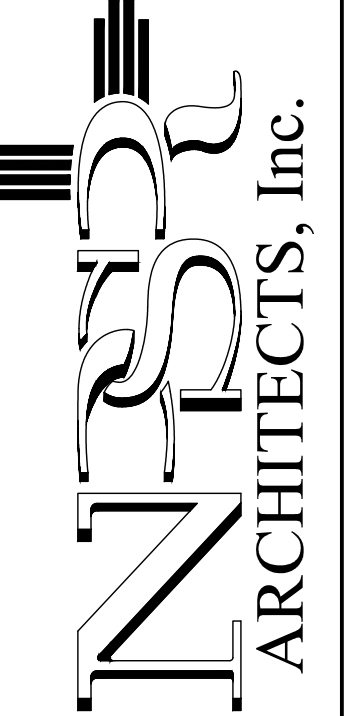
This document and the ideas and designs incorporated herein, is an instrument of professional service and is the property of NRSR Architects, Inc. It is not to be used, in whole or in part, for any other project without the written authorization of NRSR Architects, Inc.



606 WEST HERCULES ST.
SUITE 100
HOBBBS, TEXAS 75840
PH: 575.885.4725
FAX: 575.885.4827

220 BROADWAY ST.
SUITE 100
HOBBBS, TEXAS 75840
PH: 575.433.4775
FAX: 575.433.4777

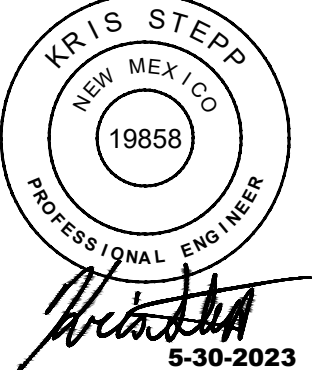
www.nrsrpro.com



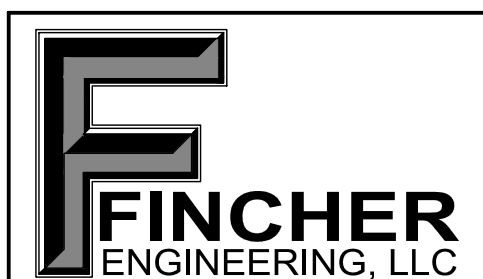
LOCKER ROOM RENOVATIONS
FOR
TASKER ARENA
HOBBS MUNICIPAL SCHOOLS
HOBBS, NEW MEXICO
1400 E. SCHARBAUER ST.

PROJECT NO.:	FE
DRAWN BY:	FE
CHECKED BY:	FE
APPROVED BY:	FE

DATE: 05-30-23
DESCRIPTION: CONSTRUCTION DOCUMENTS



6-30-2023



FINCHER ENGINEERING, LLC
TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109

WWW.FINCHERENG.COM