

Technology Consultant

IP Design Group

Accessibility Consultant

The McIntosh Group, LLC

Court Consultant

Brinkley Sargent Wiginton

Civil Engineer

TriCore Group, LLC

Construction Manager at Risk

Crossland Construction Company, Inc.

Structural Engineer

Kirkpatrick Forest Curtis, P.C.

MEP Engineer
HP Engineering

City of Norman

The City of Norman

Architect

The McKinney Partnership Architects, P.C.

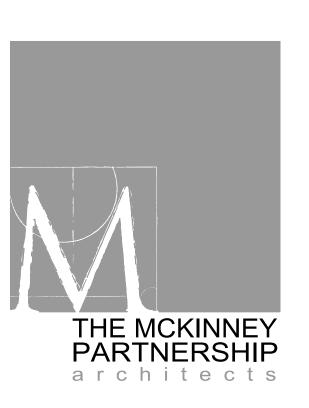
Program Manager ADG City of Norman

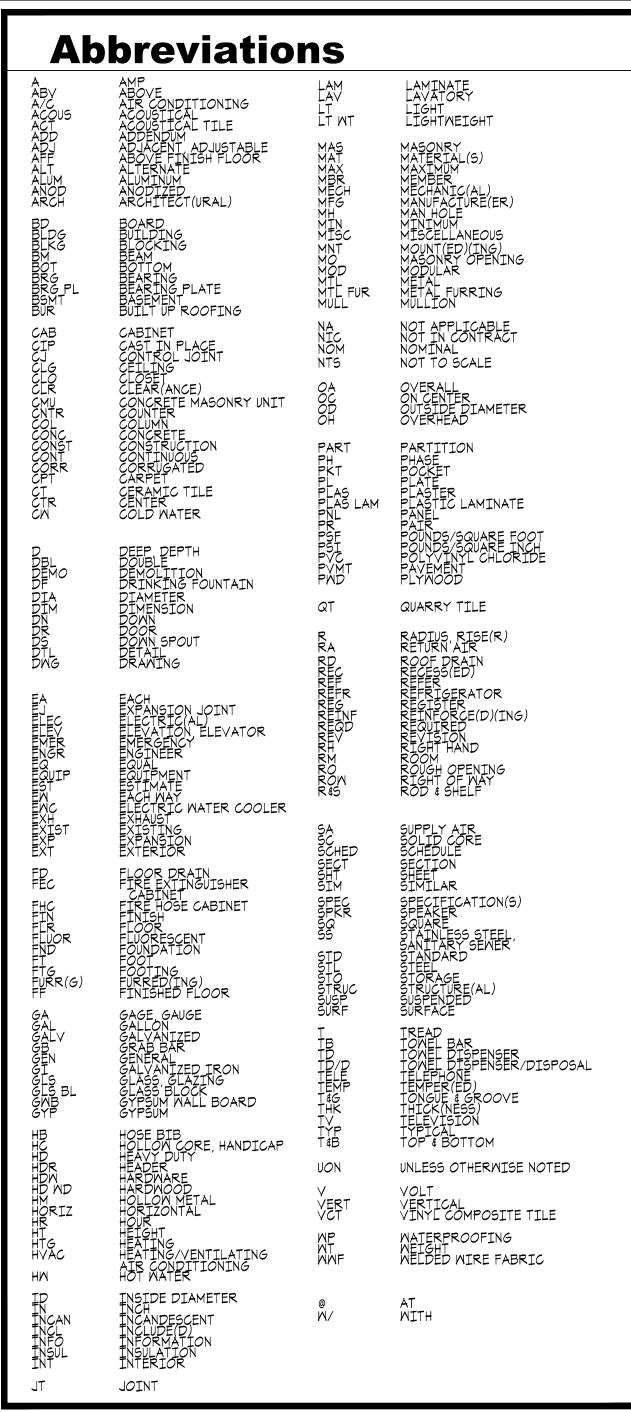
Municipal Complex Renovation

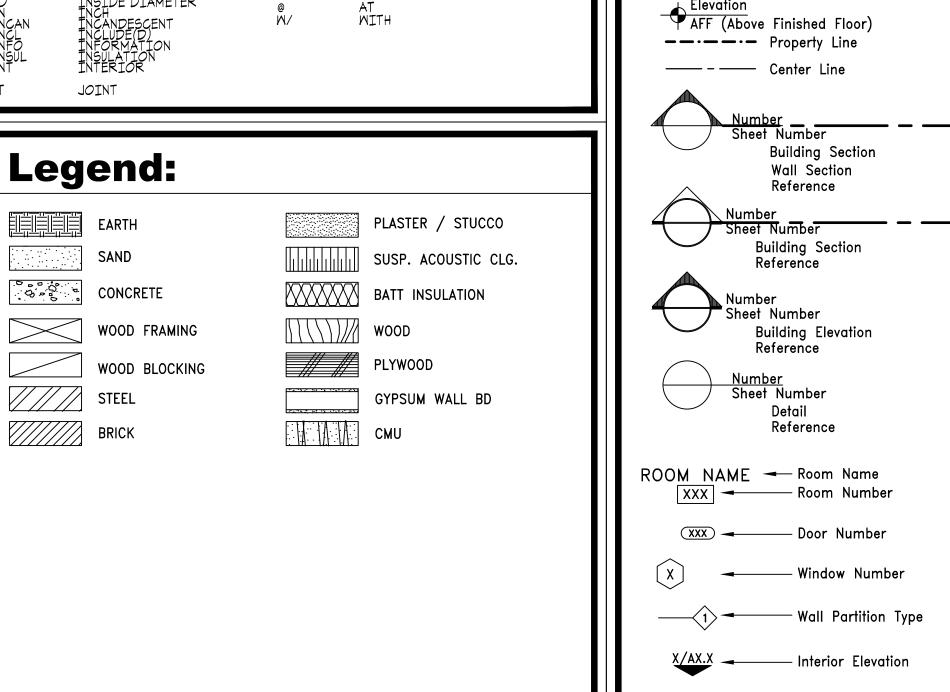
Municipal Court

Norman, Oklahoma

Issued For Bidding November 15, 2022







Contacts:

ATTN: BRENDA HALL, CITY CLERK

OKLAHOMA CITY, OK 73106

rhill@adgokc.com

CROSSLAND CONSTRUCTION CO. INC.

bmadden@crossland.com

General Notes

AND PAID FOR BY THE CONTRACTOR.

SUBMITTALS & AS-BUILT DRAWINGS TO ARCHITECT.

11. ALL WOOD BLOCKING TO BE FIRE RETARDANT TYPE.

14. CODE INFORMATION IS LOCATED ON SHEET LSF1.0.

12. PROVIDE RAISED BRAILLE EXIT SIGNS AND ACCESSIBLE TOILET SIGNS.

CORRECTED IN A MANNER ACCEPTABLE TO THE OWNER.

DO NOT SCALE FROM PLANS

Brenda.Hall@NormanOK

<u>ARCHITECT</u>

THE MCKINNEY PARTNERSHIP ARCHITECTS

3600 WEST MAIN, SUITE 200

ATTN: GREG WARD, AIA, LEED AP

gward@tmparch.com

NORMAN, OK. 73072

STRUCTURAL ENGINEERING

525 CENTRAL PARK DR.,

ATTN: JEFF SEARS, PE

OKLAHOMA CITY, OK 73105

jsears@kfcengr.com

greg@tricoregrp.com

ALL CONSTRUCTION SHALL MEET ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING CODES LATEST EDITIONS.

BUILDING PERMITS SHALL BE OBTAINED BY ARCHITECT AND PAID FOR BY OWNER. TRADE PERMITS SHALL BE OBTAINED

PREPARATION OF AS-BUILT CONSTRUCTION PLANS, MEP / STRUCTURAL / SUB CONTRACTORS TO PROVIDE AUTOCAD

SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCING WITH THAT PORTION OF WORK.

ANY DISCREPANCIES OR INCONGRUITIES IN THESE CONSTRUCTION PLANS OR BETWEEN THE PLANS AND SPECIFICATIONS

ALL SUBCONTRACTORS SHALL EXAMINE THE AREAS, CONDITIONS, AND SUBSTRATES UNDER WHICH HIS WORK IS TO BE

INSTALLED AND SHALL NOTIFY THE CONTRACTOR OF UNSATISFACTORY CONDITIONS. UNSATISFACTORY CONDITIONS SHALL BE

CONTRACTORS SHALL SUBMIT ALL INSURANCE CERTIFICATES TO THE OWNER PRIOR TO COMMENCING WITH WORK. WAIVERS

OF LIENS MUST BE FURNISHED BY ALL CONTRACTORS, SUBCONTRACTORS, AND MAJOR MATERIAL SUPPLIERS UPON FINAL

CONTRACTOR SHALL SUBMIT FINAL FIRE SPRINKLER SHOP DRAWING TO THE AUTHORITY HAVING JURISDICTION FOR FINAL

13. PROVIDE OCCUPANT LOAD SIGNAGE IN JURY POOL 107, COURT "A" 118, COURT "B" 140, JURY 120. POST THE SIGN IN

A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE, COORDINATE WITH

CONTRACTOR SHALL SUBMIT FINAL FIRE ALARM SHOP DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR FINAL

10. ALL APPROVED PLANS MUST BE AVAILABLE AT THE CONSTRUCTION SITE FOR INSPECTION PROCESS.

ANY CHANGES IN THE CONSTRUCTION FROM THE ORIGINAL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY ARCHITECT,

NOTED AND INITIALED IN RED PENCIL ON A SET LOCATED IN THE CONSTRUCTION OFFICE. ALL MAJOR SUBCONTRACTORS SHALL ALSO DOCUMENT CHANGES IN RED PENCIL AND SUBMIT TO THE ARCHITECT AT THE COMPLETION OF THE WORK FOR

KFC ENGINEERING

405-528-4596

CIVIL ENGINEERING

405-250-3921

TRICORE GROUP, LLC

ATTN: GREG VANCE, PE

SUITE 202

405-360-1400

MEP ENGINEERING

HP ENGINEERING

405-286-9945

TECHNOLOGY ENGINEERING

OMAHA, NEBRASKA 68102

ATTN: CAMERON GILINSKY

COURT DESIGN CONSULTANT

ATTN: GREG READ, AIA

IP DESIGN GROUP

402-346-7007

972-960-9970

1201 CASS STREET

205 NW 63RD STREET, SUITE 100

ATTN: RAY POWELL, PE (MECHANICAL)

rpowell@hpengineering.com
DANIEL RIZIK, PE (ELECTRICAL)
drizik@hpengineering.com

cgilinsky@ipdesigngroup.com

BRINKLEY SARGENT WIGINTON ARCHITECTS

GRead@bsw-architects.com

5000 QUORUM DRIVE, SUITE 600

OKLAHOMA CITY, OK 73116

OWNER/TENANT

P.O. BOX 370

405-366-5405

PROGRAM MANAGER

920 W. MAIN ST.

405-323-5700

ATTN: RANDY W. HILL

CONSTRUCTION MANAGER

408 NE 145TH PLACE

ATTN: BLAKE MADDEN

PAYMENT.

REVIEW AND COMMENTS.

REVIEW AND COMMENTS.

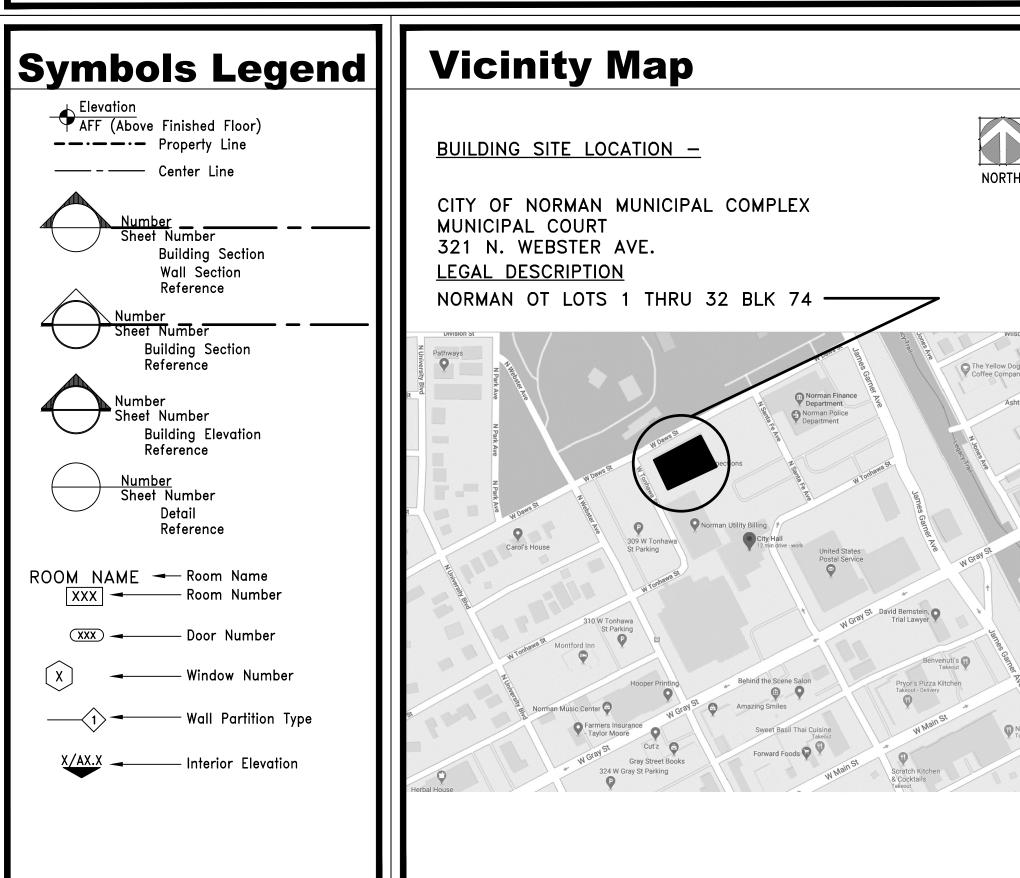
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OKLAHOMA CITY, OK 73013

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THE CITY OF NORMAN

NORMAN, OK 73070

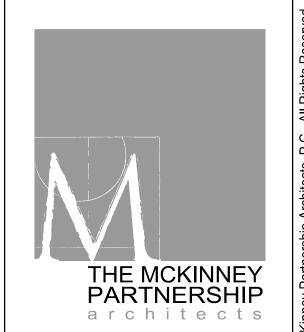


GENERAL	- INFORMATION	MECHANIC	AL
A0.0	PROJECT INFORMATION	M0.1	MECHANICAL LEGENDS AND ABBREVIATIONS
A0.1	PARTITION TYPES	MD1.1	MECHANICAL DEMOLITION PLAN
A0.2	ACCESSIBLE FIXTURES AND MOUNTING / TOILET ACCESSORY SCHEDULE	MD1.2	MECHANICAL PIPING DEMOLITION PLAN
A0.3	EXISTING SITE SURVEY	M1.1	HVAC PLAN
		M1.2	MECHANICAL PIPING PLAN
CIVIL		M1.5	MECHANICAL ROOF PLAN
C-101	UTILITY PLAN	M5.1	MECHANICAL DETAILS
C-201	TYPICAL DETAILS	M5.2	MECHANICAL DETAILS
C-202	TYPICAL DETAILS	M5.3	MECHANICAL DETAILS
STRUCTU	RAL	M6.1	MECHANICAL SCHEDULES
S1.1	GENERAL NOTES		
S1.2	SPECIAL INSPECTION		
S2.0	OVERALL PLAN		
S2.1	FOUNDATION AND FRAMING PLAN		
S3.0	FRAMING ELEVATIONS		
S4.1	FOUNDATION DETAILS		
S5.1	FRAMING DETAILS		
LANDSCA	APE	ELECTRIC	CAL
L1.0	LANDSCAPE PLAN	E0.1	ELECTRICAL NOTES AND LEGEND
L1.1	LANDSCAPE DETAILS	ED1.1	ELECTRICAL DEMO PLAN
		E1.1	ELECTRICAL POWER PLAN
ARCHITEC	CTURAL	E1.2	ELECTRICAL EQUIPMENT PLAN
LSF1.0	LIFE SAFETY PLAN/CODE REVIEW	E1.3	ELECTRICAL ROOF PLAN
	DEMOLITION SITE PLAN	E2.1	ELECTRICAL LIGHTING PLAN
	DEMOLITION ELEVATIONS	E2.2	ELECTRICAL LIGHTING SCHEDULE
D3.0	DEMOLITION FLOOR PLAN	E3.1	ELECTRICAL RISER DIAGRAM
	DEMOLITION ROOF PLAN	E3.2	ELECTRICAL SCHEDULES
	DEMOLITION FLOOR PLAN-EXISTING MUNICIPAL COURT	E4.1	ELECTRICAL DETAILS
	SITE PLAN	E4.2	FIRE ALARM
	SITE PLAN DETAILS		
	SITE PLAN DETAILS	PLUMBING	;
	FLOOR PLAN	P0.1	PLUMBING LEGENDS AND ABBREVIATIONS
	DIMENSIONAL PLAN	P1.1	PLUMBING WASTE & VENT PLAN
A2.2	ENLARGED PLANS	P2.1	PLUMBING SUPPLY PLAN
A2.3	ENLARGED PLANS	P3.1	ENLARGEMENTS - PLUMBING
A2.4	ENLARGED PLANS	P4.1	DETAILS - PLUMBING
A2.5	ENLARGED PLANS	P4.2	DETAILS - PLUMBING
A2.6	ENLARGED PLANS	P4.3	DETAILS - PLUMBING
A3.0	REFLECTED CEILING PLAN	P6.1	PLUMBING SCHEDULES
A3.1	CEILING DETAILS		
A4.0	ROOF PLAN		
A5.0	EXTERIOR ELEVATIONS		
A5.1	ENLARGED EXTERIOR ELEVATIONS		
A5.2	ENLARGED EXTERIOR ELEVATIONS		
A6.0	BUILDING SECTIONS	FIRE PRO	TECTION
A6.1	WALL SECTIONS / DETAILS	FP0.1	FIRE PROTECTION TITLE SHEET
A6.2	DETAILS		FLOOR PLAN - FIRE PROTECTION
A7.0	INTERIOR ELEVATIONS		
A7.1	INTERIOR ELEVATIONS		
A7.2	INTERIOR ELEVATIONS		
A7.3	INTERIOR ELEVATIONS	TECHNOLO	DGY
A7.4	INTERIOR ELEVATIONS	T0.0	TELECOM SYMBOLS AND ABBREVIATIONS
A7.5	INTERIOR ELEVATIONS	TD1.1	FIRST FLOOR DEMO PLAN-TELECOM
A7.6	INTERIOR ELEVATIONS	T1.1	FLOOR PLAN-TELECOM
40.0	DOOR AND WINDOW SCHEDULE / DOOR AND WINDOW ELEVATIONS	T2.0	ENLARGED FLOOR PLANS-TELECOM
A8.0	DOOR HARDWARE SCHEDULE	T3.0	RISERS-TELECOM
	!	- 	RISERS-TELECOM
A8.1	DOOR DETAILS	T3.1	TRISERS TELECOM
A8.1 A8.2	DOOR DETAILS DOOR DETAILS	T3.1 T4.0	DETAILS—TELECOM
A8.1 A8.2			
A8.1 A8.2 A8.3 A9.0	DOOR DETAILS	T4.0	DETAILS-TELECOM
A8.1 A8.2 A8.3 A9.0	DOOR DETAILS FINISH SCHEDULE / DETAILS	T4.0 T4.1	DETAILS-TELECOM DETAILS-TELECOM
A8.1 A8.2 A8.3 A9.0 A9.1 A9.2	DOOR DETAILS FINISH SCHEDULE / DETAILS FLOOR FINISH PLAN	T4.0 T4.1 T4.2 T4.3	DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM
A8.1 A8.2 A8.3 A9.0 A9.1 A9.2 A10.0	DOOR DETAILS FINISH SCHEDULE / DETAILS FLOOR FINISH PLAN WALL FINISH PLAN	T4.0 T4.1 T4.2 T4.3 T4.4	DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM
A8.1 A8.2 A8.3 A9.0 A9.1 A9.2 A10.0	DOOR DETAILS FINISH SCHEDULE / DETAILS FLOOR FINISH PLAN WALL FINISH PLAN MILLWORK SECTIONS	T4.0 T4.1 T4.2 T4.3	DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM DETAILS—TELECOM

Description of Scope

REMODEL OF EXISTING APPROX. 15,000 S.F. FORMER "BUILDING A" FOR A NEW MUNICIPAL COURT BUILDING FOR THE CITY OF NORMAN. THE NEW FACILITY WILL CONSIST OF COURT AND JURY SPACES, OFFICES AND MEETING AREAS. INTERIOR WORK INCLUDES A COMPLETE RENOVATION OF THE INTERIOR AND INSTALLATION OF A FIRE SPRINKLER SYSTEM. NETWORK, A/V, AND SECURITY ARE BY THE G.C. THE EXTERIOR IS TO REMAIN WITH THE EXCEPTION OF A NEW MAIN ENTRY ELEMENT, MISC. AND NEW WINDOWS/DOORS. SITE WORK INCLUDES SIDEWALK MODIFICATIONS & SITE IMPROVEMENTS.

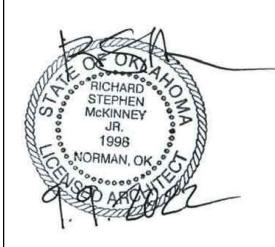
ADD ALTERNATE #1-REPLACE RECEPTIONIST & PAY STATIONS PLAM COUNTERS IN WITH QUARTZ COUNTERS



3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f

tmparch.com

Seal:



Project:

City of Norman Sal Complex Renovat Municipal Court Nebster Avenue

Issue Date:

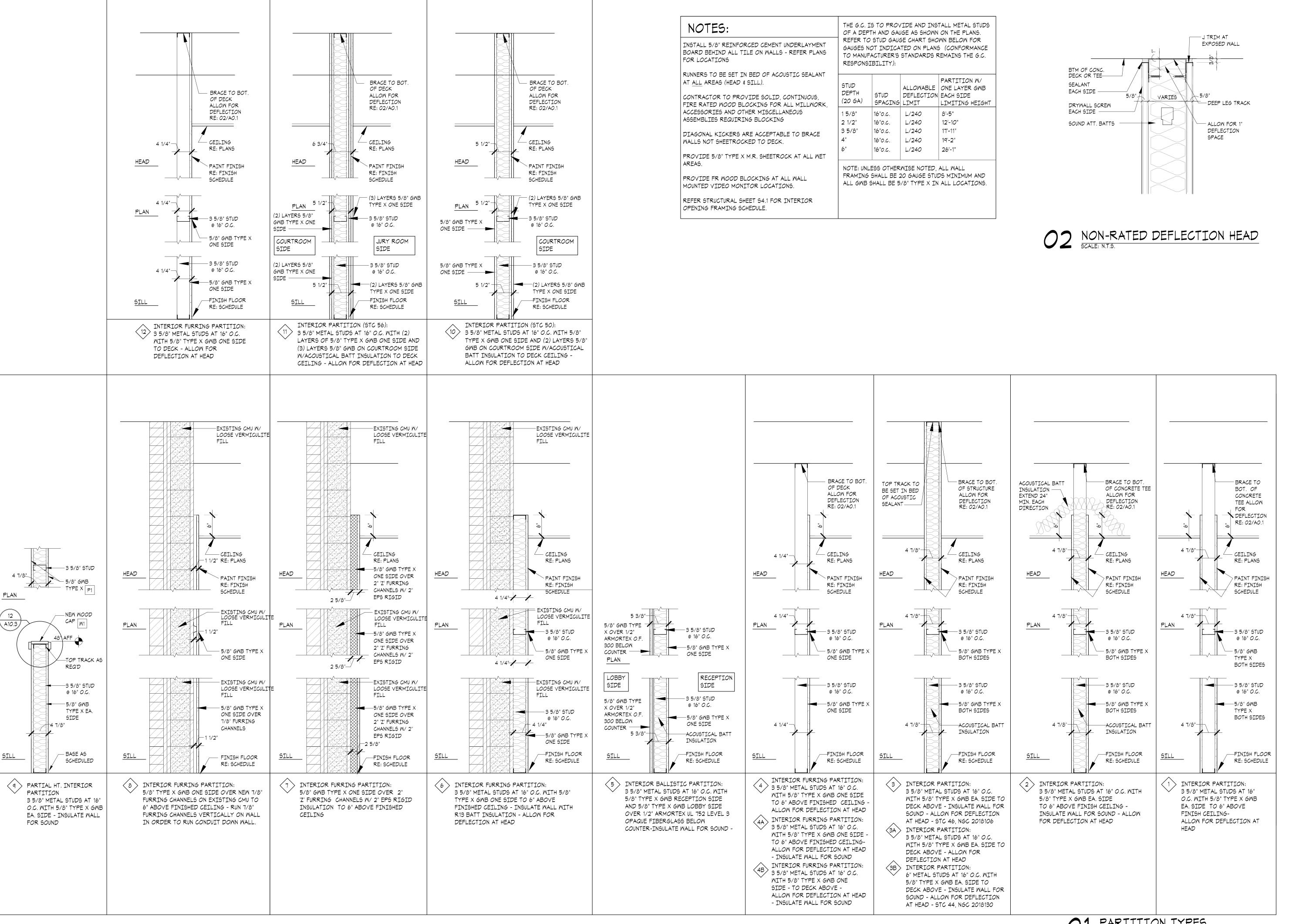
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Revisions:

Project Number:

Sheet Title:
PROJECT INFORMATION

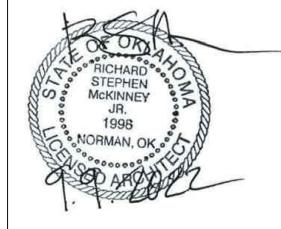
CM083319



THE MCKINNEY
PARTNERSHIP
architects

3600 West Main
Suite 200
Norman, Oklahoma
73072
405.360.1400 p
405.364.8287 f
tmparch.com

Seal:



Project:

City of Norman nicipal Complex Renova Municipal Court 321 N. Webster Avenue

Norman,

Issue Date:
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Revisions:

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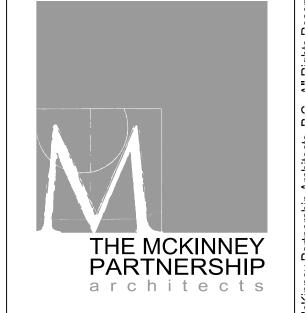
PARTITION TYPES

CM083319

AO 1

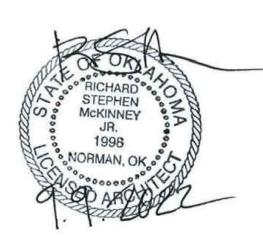
PETER TO PUBLISHED PRAINTNESS FOR	MARK	DESCRIPTION	MANUF./MODEL NO.	REMARKS
REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.	(A)	MIRROR	BRADLEY 780 -2436	24"X36" - 1/2" X 1/2" STAINLESS STEEL FRAME W/ MITERED CORNERS
REFER TO ACCESSIBLE FIXTURES AND ACCESSORIES MOUNTING SCHEDULE ON SHEET	(B)	SOAP DISPENSER	DEB STOKO WRM1LDS	WALL MOUNTED (PROVIDED BY OWNER/INSTALLED BY GC)
AO.2.	⊘	42" GRAB BAR	BRADLEY 812-001	CONCEALED ANCHORS & FASTENERS
ALL CONSTRUCTION AND MOUNTING HEIGHTS SHALL COMPLY WITH ALL APPLICABLE CITY	(D)	48" GRAB BAR	BRADLEY 812-001	CONCEALED ANCHORS & FASTENERS
AND STATE ACCESSIBILITY REGULATIONS AS WELL AS THE FEDERAL ADA (AMERICANS WITH	Œ	18" VERTICAL GRAB BAR	BRADLEY 812-001	CONCEALED ANCHORS & FASTENERS
DISABILITY ACT) REGULATIONS. REFER QUESTIONABLE MOUNTING HEIGHTS TO THE	F	TOILET PAPER DISPENSER	TORK #5555200	WALL MOUNTED (PROVIDED BY OWNER/INSTALLED BY GC)
ARCHITECT FOR FINAL DECISION. REFER SCHEDULE THIS SHEET	(6)	COAT HOOK	BRADLEY 9119	SURFACE MOUNTED ON INSIDE OF ALL HC STALL DOORS AND INSIDE FACE OF ALL SINGLE USER TOILET DOORS
PROVIDE SOLID CONTINUOUS F.R. WOOD BLOCKING IN WALLS AS REQUIRED FOR	H	NOT USED		
ATTACHING ACCESSORIES, RAILS AND EQUIPMENT.	(I)	PAPER TOWEL DISPENSER	TORK #5510202	WALL MOUNTED (PROVIDED BY OWNER/INSTALLED BY GC)
REFER TO INTERIOR ELEVATIONS ON SHEETS	<u>(</u>	NOT USED		
A7.0-A7.6 FOR LOCATION OF OTHER WALL MOUNTED ACCESSORIES.	⟨K⟩	SANITARY NAPKIN DISPOSAL	RUBBERMAID FG614000WHT	WALL MOUNTED (PROVIDED BY OWNER/INSTALLED BY GC)
	(L)	RECESSED WASTE RECEPTACLE	BOBRICK B-3644	SEMI-RECESSED
	⟨M⟩	BABY CHANGING STATION	KOALA KARE KB200	GREY
	$\langle N \rangle$	SEAT COVER DISPENSER	BRADLEY 5831	SURFACE MOUNTED BEHIND ALL TOILETS, TYP., 48" MAX. TO OPENING
	(0)	RAISED LETTER BRAILLE EXIT SIGN	SIGN VENDOR	REFER TO LSF1.0 FOR LOCATIONS, SIZES & TYPE
	(P)	RAISED LETTER BRAILLE ADA RESTROOM SIGN	SIGN VENDOR	REFER TO PLANS FOR TYPE (UNISEX, MOMEN, MEN)
	(Q)	RAISED LETTER BRAILLE 'JURY ROOM' SIGN	SIGN VENDOR	REFER 01/A7.6
	⟨R⟩	RAISED LETTER BRAILLE NOT AN EXIT' SIGN	SIGN VENDOR	REFER 01/A7.0

LAVATORIES - HEIGHT TO BOTTOM OF APRON LAVATORIES - HEIGHT TO TOP OF RIM LAVATORIES - DEPTH FROM FINISHED WALL URINAL - HEIGHT TO TOP OF RIM. URINAL - DEPTH FROM FINISHED WALL TO OUTER EDGE OF ELONGATED RIM	ACCESSIBLE DIMENSIONS REQUIRED 27" MIN 34" MAX.	1/2" TUBULAR C INSULATION BY
LAVATORIES - DEPTH FROM FINISHED WALL URINAL - HEIGHT TO TOP OF RIM.		
URINAL - HEIGHT TO TOP OF RIM.	17" MIN	M.C. CLEAR TRUEBRO OR EQ.
		FLOOR SPACE FLOOR SPACE
URINAL - DEPTH FROM FINISHED WALL TO	17" MAX.	
	14" MIN.	
GRAB BARS - HEIGHT TO TOP OF BAR.	35"	
WATER CLOSET - HEIGHT TO TOP OF SEAT.	17"- 19"	11" MIN. 8" MIN. 8" MIN. 8" MIN.
WATER CLOSET - HEIGHT TO FLUSH CONTROLS	44" MAX.	PLAN ELEV. ELEV. ELEV. ELEV. ELEV.
MIRROR - HEIGHT MAXIMUM TO BOTTOM EDGE OF REFLECTING SURFACE.	40" MAX.	ACCESSIBLE STALL MIRROR CONTROLS PAPER TOWEL DRINKING URINAL LAVATORY & DISPENSER DISPENSER/ FOUNTAIN
CONTROLS & DISPENSERS: (TELEPHONES INCLUDED) MAXIMUM TO CENTER LINE OF CONTROL DEVICE -	48" MAX.	HAND DRYER
DRINKING FOUNTAIN - HEIGHT TO TOP OF SPOUT	36" MAX.	MAXIMUM REACH DEPTH & HEIGHT 1 1/2" DIA. MAXIMUM REACH DEPTH & HEIGHT FORWARD SIDE OF THE STATE OF THE S
DRINKING FOUNTAIN - HEIGHT TO BOTTOM OF APRON	27"	5.5. GRAB BARS 4"
DRINKING FOUNTAIN - DEPTH FROM FINISHED WALL	17" MIN.	MAX, REACH 25" 20" 10" 24" DEPTH
PAPER TOWEL DISPENSER/DRYER - HT TO OPENING/OPERABLE PARTS	48" MAX.	MAX. REACH 48" 44" 48" 46"
TOILET PAPER DISPENSER - HT TO DISPENSER OPENING	15" MIN.	
TOILET PAPER DISPENSER - DEPTH FROM WATER CLOSET	7" - 9"	$\begin{bmatrix} & & & & & & & & & & & & & & & & & & &$
COAT HOOK	48" MAX.	PEPTH FRONT ELEVATION SIDE ELEVATION
MATER CLOSET - CLEAR SPACE (WALL MTD)	56" MIN.	5.5. ELEVATION 1
WATER CLOSET - FROM ADJACENT WALL TO CENTERLINE	17"	BABY CHANGING STATION GRAB BARS Z Z Z Z Z Z Z Z Z Z Z Z Z
MATER CLOSET - CLEAR SPACE FROM ADJ. WALL	60" MIN.	
LAVATORIES - CLEAR SPACE FROM CENTERLINE	15" MIN.	MIN. 1 1
36" GRAB BAR - LOCATED FROM ADJACENT WALL	6"	TOILET CLEAR Z
42" GRAB BAR - LOCATED FROM REAR WALL	12" MAX.	PAPER DISP SPACE SPACE SPACE SPACE
18" VERTICAL GRAB BAR - LOCATED FROM ADJ. WALL	40"	
18" VERTICAL GRAB BAR - LOCATED FROM FLOOR	40"	48" MIN. 48" MIN.
		PLAN ELEV. PLAN ELEV. ELEV.
		ELEVATION MOUNT SANITARY LAVATORY COAT DRINKING LAVATORY ACCESSIBLE



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eal:



Project:

City of Norman Municipal Complex Renovati Municipal Court 321 N. Webster Avenue Norman, OK

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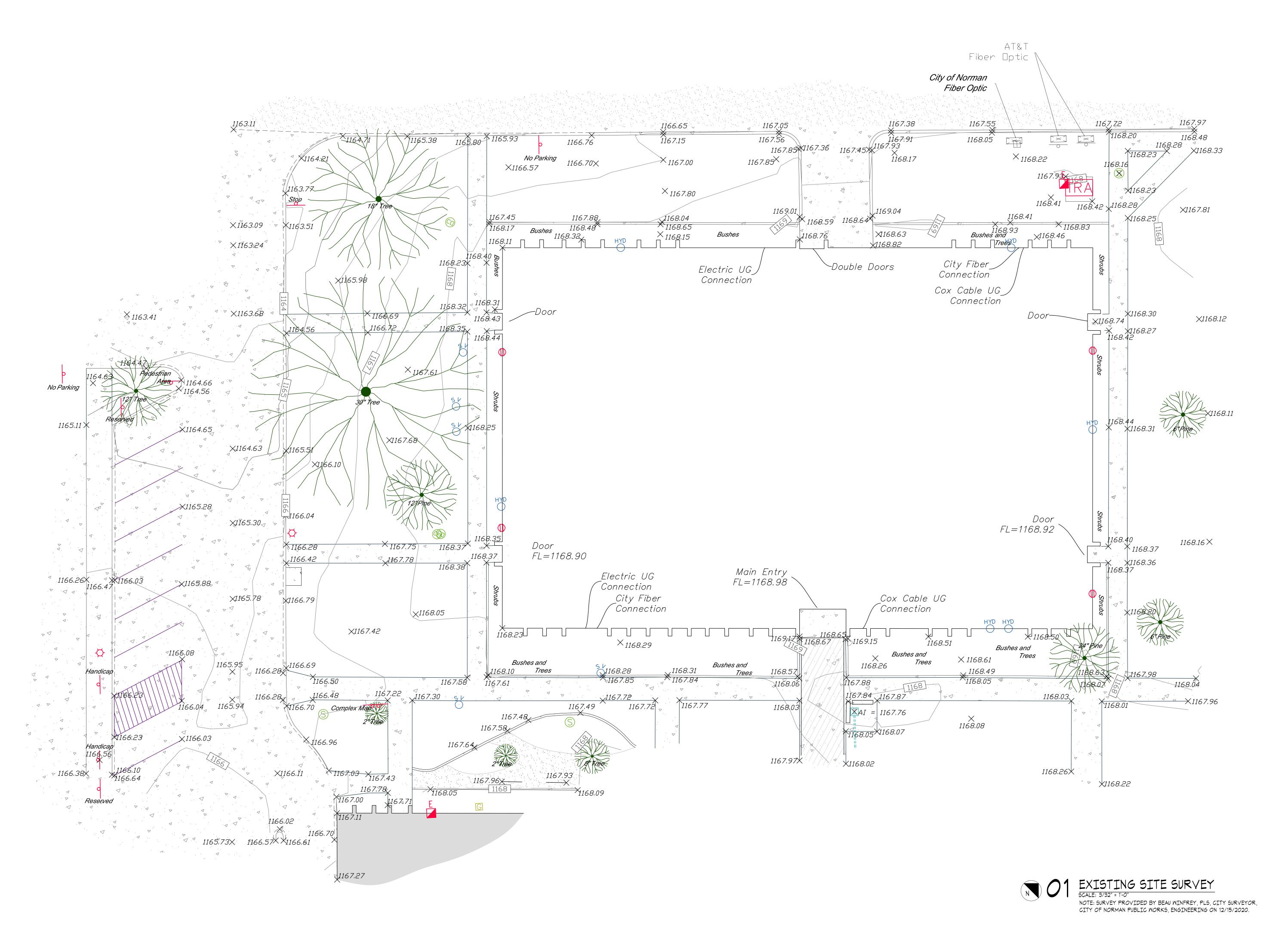
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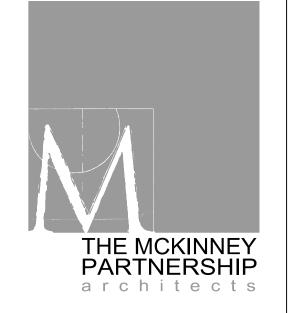
Project Number: CM083319

Sheet Title:
ACCESSIBLE FIXTURES & MOUNTING,
TOILET ACCESSORIES

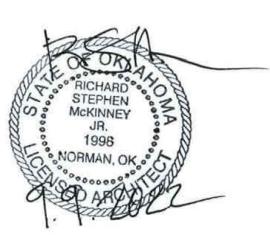
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Norman

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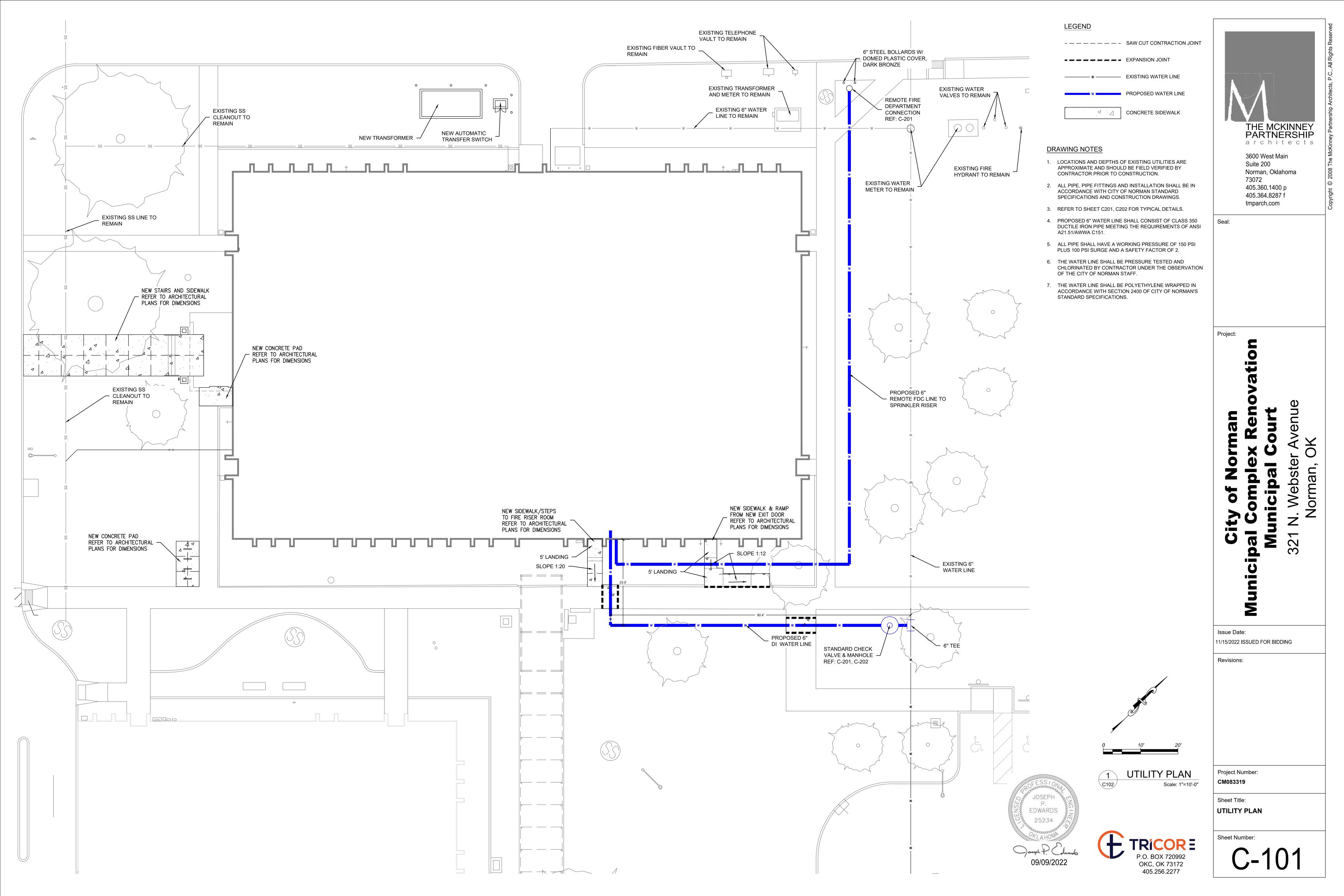
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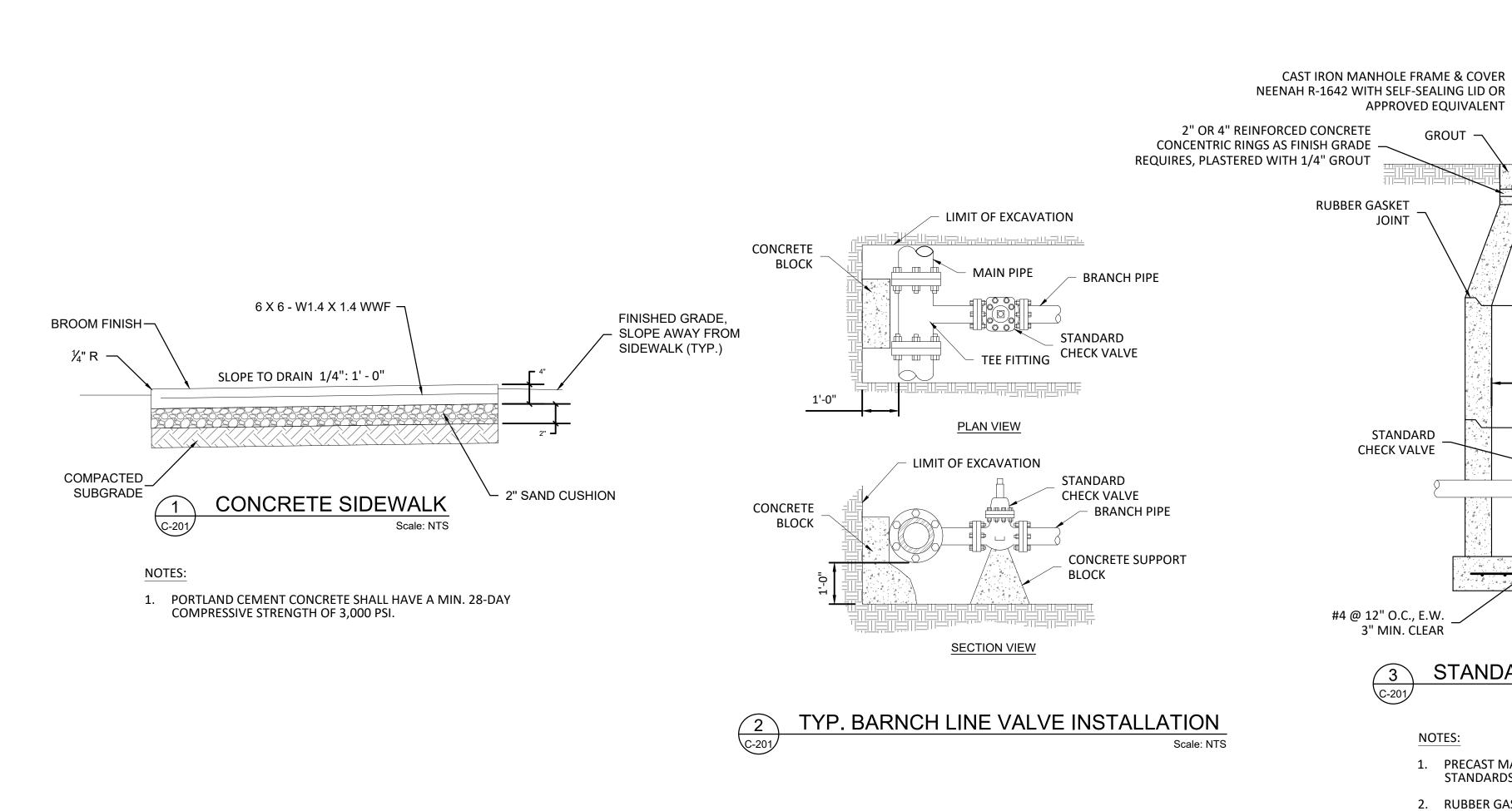
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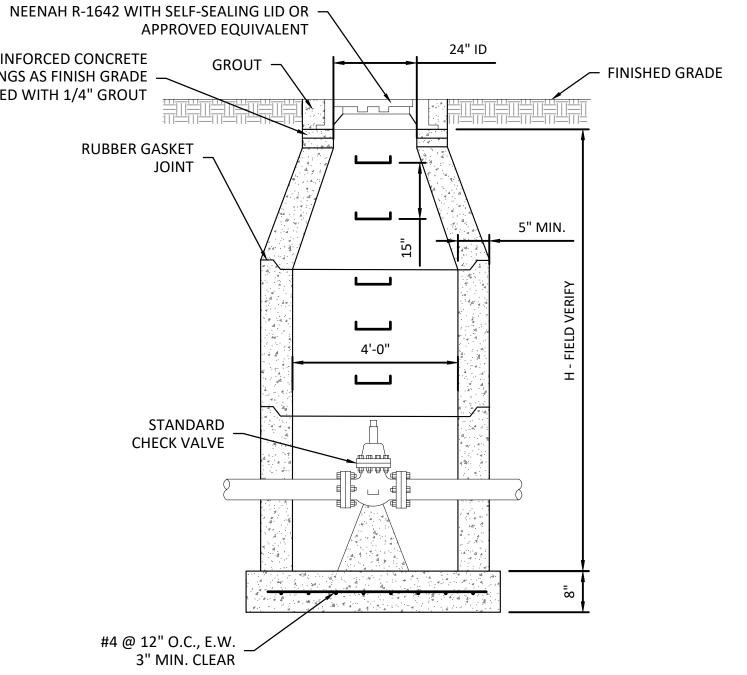
Project Number: CM083319

Sheet Title:

EXISTING SITE SURVEY

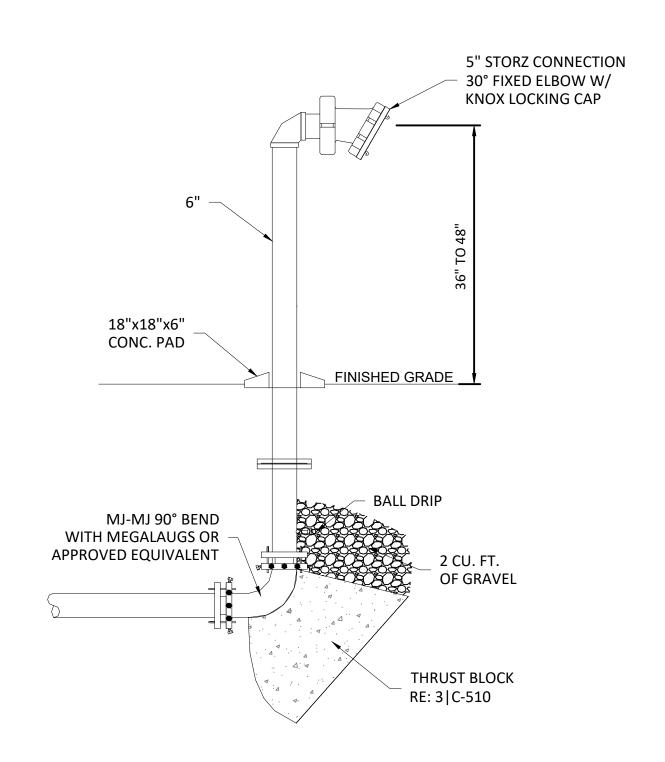




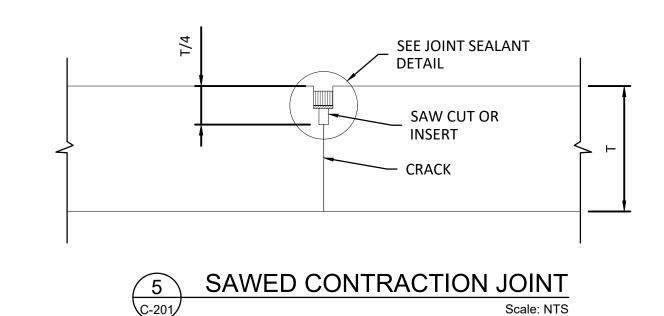


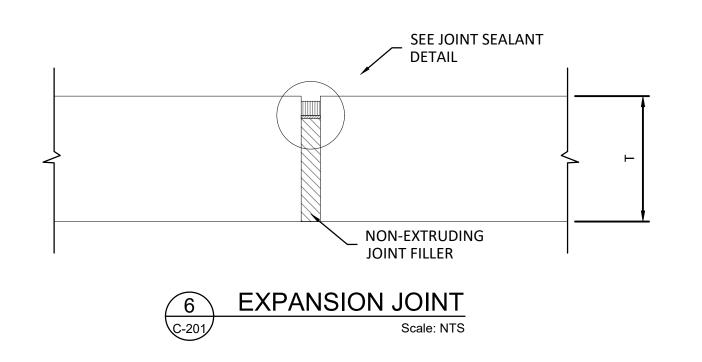


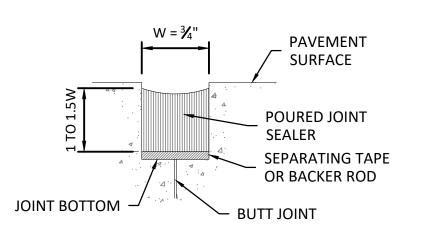
- 1. PRECAST MANHOLE SHALL CONFORM TO CITY OF NORMAN STANDARDS AND ASTM C-478.
- 2. RUBBER GASKET JOINTS SHALL MEET ASTM C-443.
- 3. CONCRETE TO HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 4. MANHOLE STEPS TO BE STANDARD POLYPROPYLENE STEPS CONFORMING TO ASTM C-478 AND AASHTO M-199, M.A. INDUSTRIES OR APPROVED EQUIVALENT.
- 5. BOTTOM PRECAST SECTION TO BE EMBEDDED A MINIMUM OF 3" INTO THE BASE IF A CAST-IN-PLACE BASE IS USED.



REMOTE FIRE DEPARTMENT CONNECTION





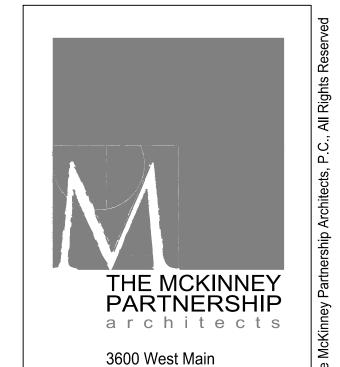




1. TOP OF SEALANT TO BE $\frac{1}{8}$ " - $\frac{1}{4}$ " BELOW TOP OF PAVEMENT SURFACE.







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Project:

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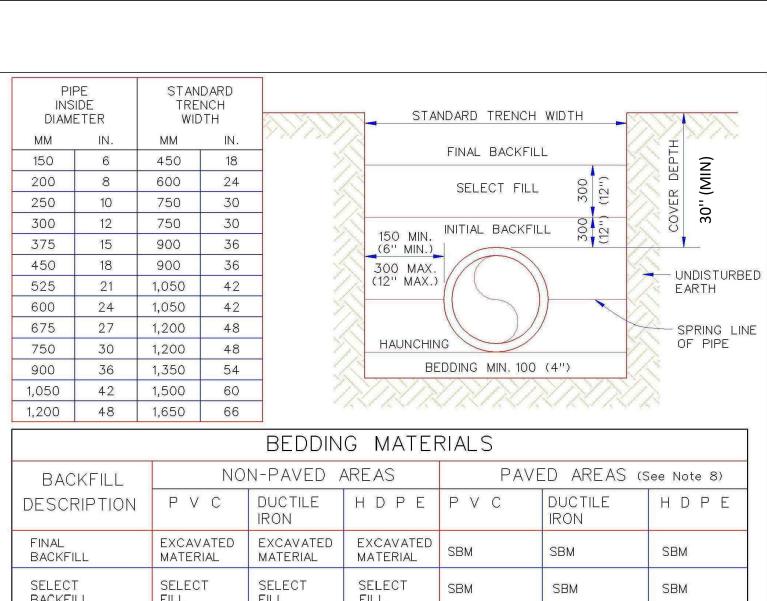
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Sheet Title: TYPICAL DETAILS I



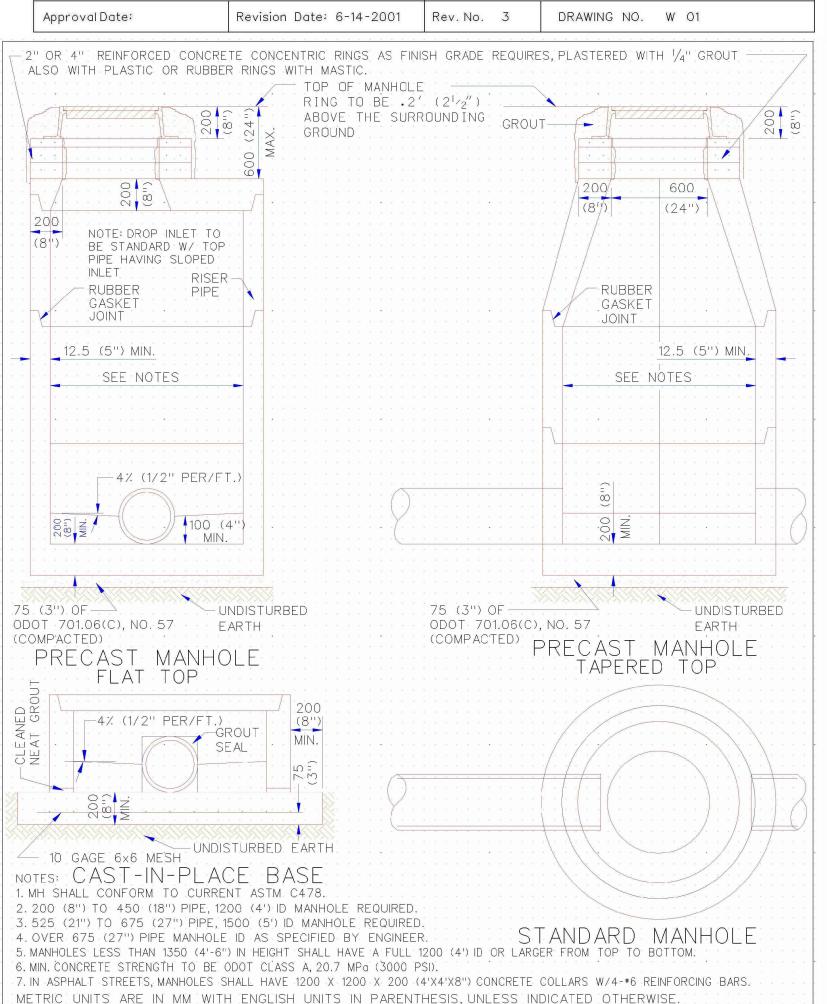
1,200 48	1,650 66					
		BEDDIN	G MATER	RIALS		
BACKFILL	NO	N-PAVED /	AREAS	PAV	ED AREAS (See Note 8)
DESCRIPTION	PVC	DUCTILE IRON	HDPE	PVC	DUCTILE IRON	HDPE
FINAL BACKFILL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	EXCAVATED MATERIAL	SBM	SBM	SBM
SELECT BACKFILL	SELECT FILL	SELECT FILL	SELECT FILL	SBM	SBM	SBM
INITIAL BACKFILL	COVER ≤10'-SAND OR SBM >10'-SBM	SELECT FILL	COVER ≤10'-SAND OR SBM >10'-SBM	SBM	SBM	SBM
HAUNCHING	COVER ≤10'-SAND OR SBM >10'-SBM	SELECT FILL	COVER ≤10'-SAND OR SBM >10'-SBM	SBM	SBM	SBM
BEDDING	See Note 5	See Note 5	See Note 5	See Note 5	See Note 5	See Note 5

- 1. INSTALLATION AND BACK FILLING SHALL MEET MANUFACTURERS RECOMMENDATIONS.
- 2. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 50 MM (2"). 3. STANDARD BEDDING MATERIAL (SBM) SHALL CONFORM TO ODOT 703.01, TYPE A AGGREGATE BASE OR FLOWABLE FILL PER
- SECTION 501.02(B).
- 4. COMPACTION REQUIREMENTS: a. NON-PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS AND 85% FOR COHESIVE SOILS.
- b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESIONLESS SOILS. 5. IF TRENCH IS DRY BEDDING SHALL BE 100 MM (4") SAND OR TYPE A AGGREGATE BASE, AND IF WET SHALL BE NO. 57 OR
- NO. 67 ROCK PER SECTION 701.06(C). 6. IN SANDY SOIL, CONTRACTOR MAY BACKFILL WITH NATIVE MATERIAL AND USE WARNING TAPE 18" ABOVE PIPE.
- 7. NO WATER JETTING ALLOWED. 8 THE BACKFILL MATERIAL SHALL EXTEND A MINMUM OF 2-FEET BEHIND THE BACK OF CURB, OR THE EDGE OF PAVEMENT
- WHERE NO CURB EXISTS.

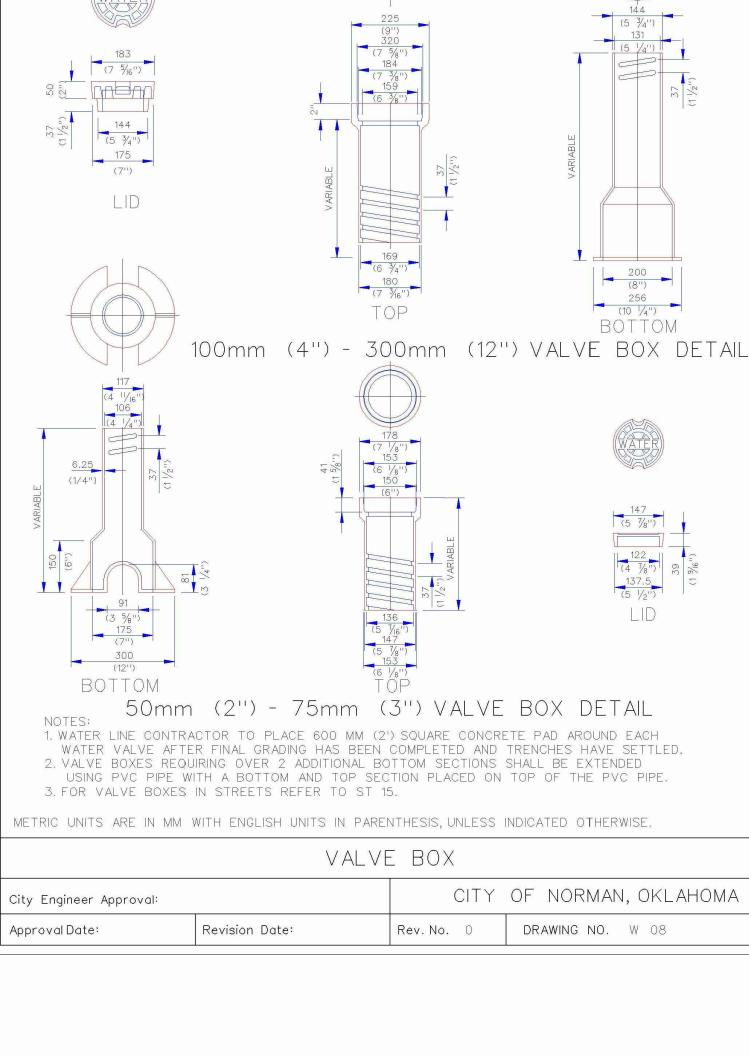
METRIC UNITS ARE IN MM WITH ENGLISH UNITS IN PARENTHESIS, UNLESS INDICATED OTHERWISE.

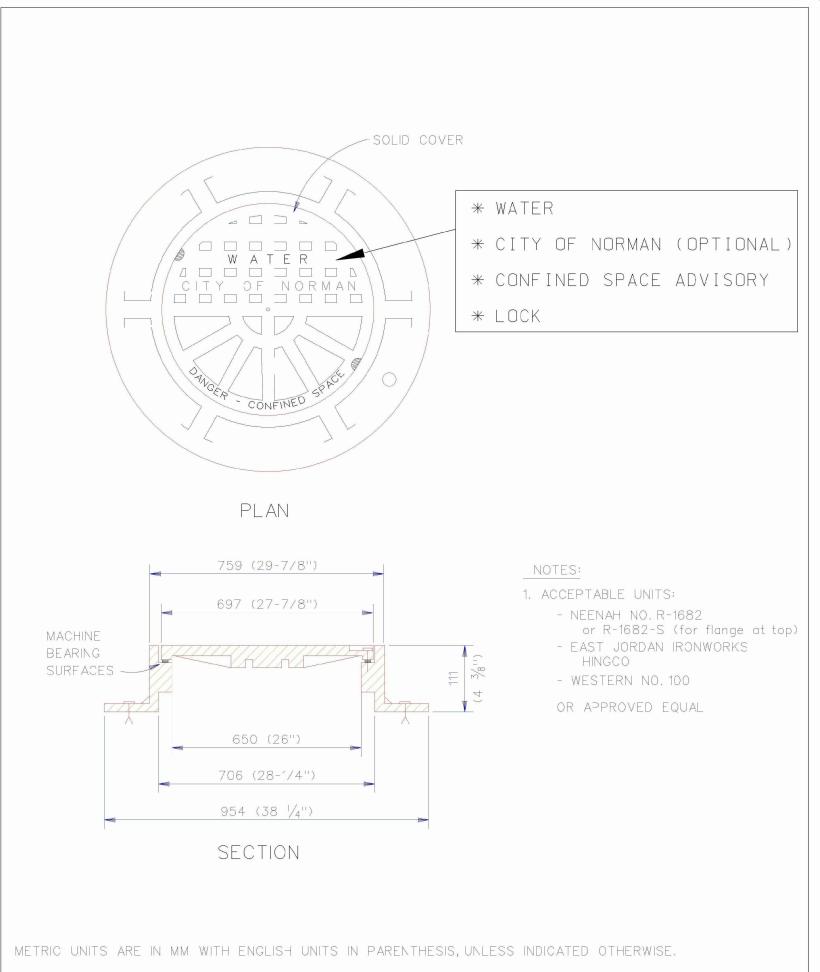
	WATER	PIPE	TRENC	CHING	AND	BE	EDDING			
coval:					CITY	OF	NORMAN,	OKL,	AHOM	Α

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City Engineer Approval:		CITY	OF NORMAN, OKLAHOMA
Approval Date:	Revision Date: 6-14-2001	Rev. No. 3	DRAWING NO. W 01

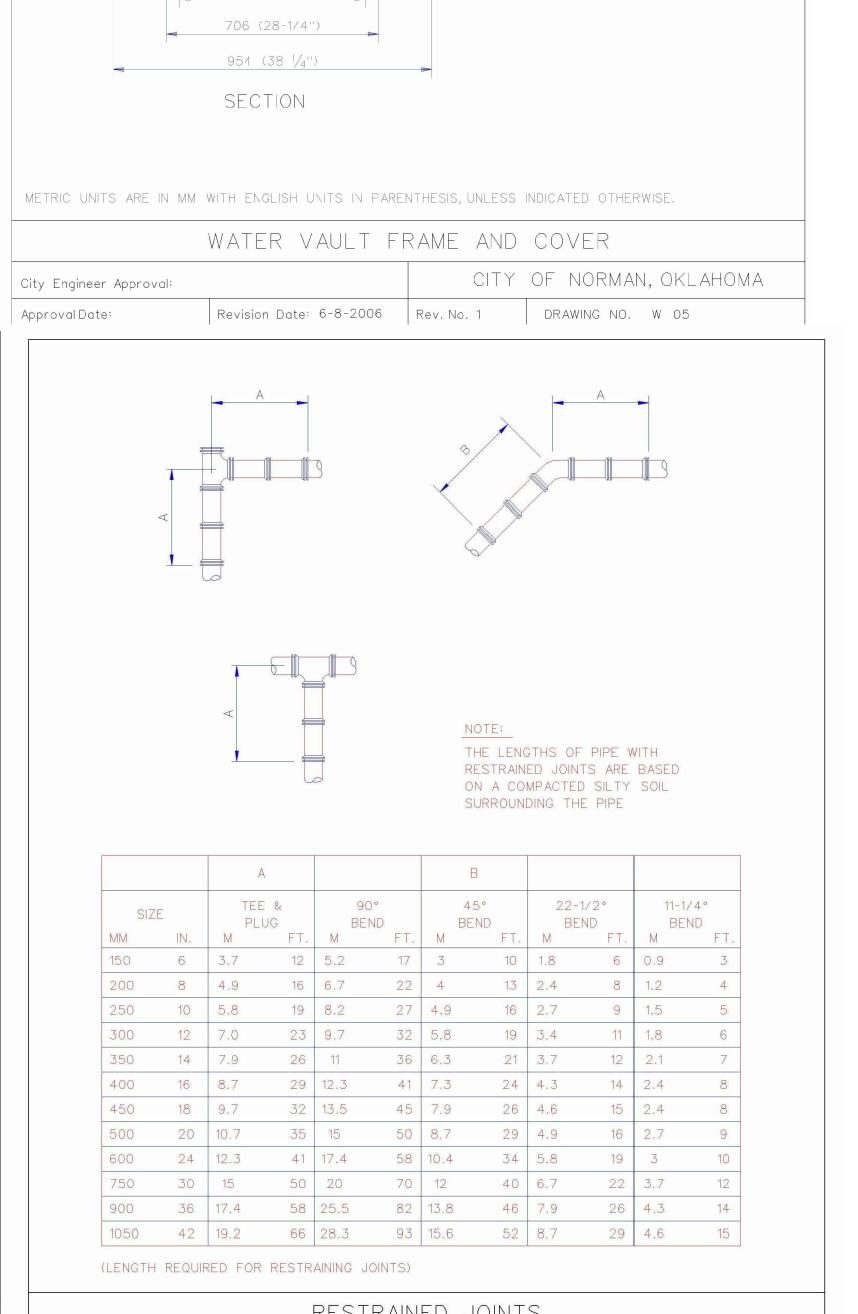


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S	OF NORMAN, OKLAHO	A A A A A CITY		
Approx	DRAWING NO. SS 02	Rev. No. 1	Revision Date: 6-09-2006	Approval Date:





	WATER VAULT FR	RAME AND	COVER
City Engineer Approval:		CITY	OF NORMAN, OKLAHOMA
Approval Date:	Revision Date: 6-8-2006	Rev. No. 1	DRAWING NO. W 05



- SOLID COVER

PLAN

759 (29-7/8")

697 (27-7/8")

650 (26")

MACHINE

BEARNG

SURFACES -

* WATER

* LOCK

NOTES:

1, ACCEPTABLE UNITS:

HINGCO

- NEENAH NO. R-1682

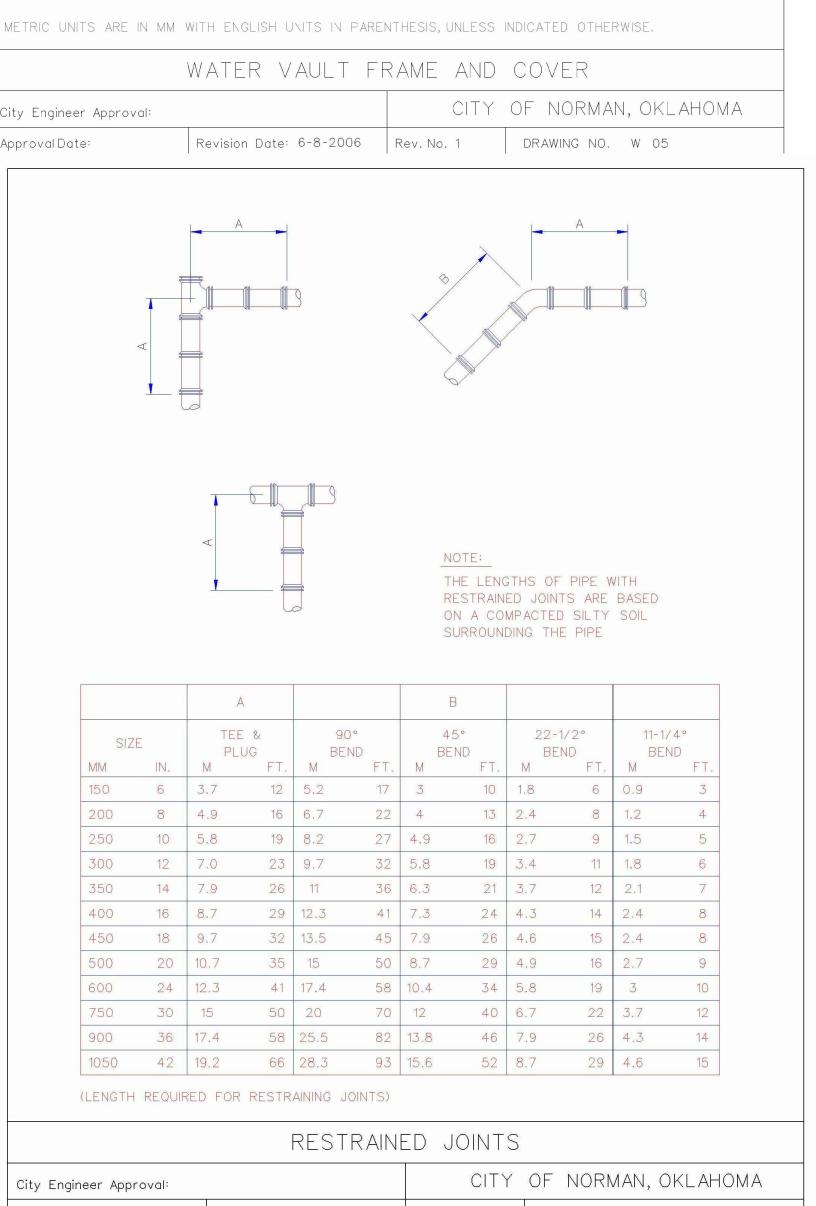
- WESTERN NO, 100 OR APPROVED EQUAL

- EAST JORDAN IRONWORKS

or R-1682-S (for flange at top)

* CITY OF NORMAN (OPTIONAL

* CONFINED SPACE ADVISORY



Revision Date:

Approval Date:

Rev. No. 0 DRAWING NO. W 04





THE MCKINNEY **PARTNERSHIP** architects Norman, Oklahoma

3600 West Main

405.360.1400 p

405.364.8287 f

tmparch.com

Suite 200

73072

Project:

Issue Date: 11/15/2022 ISSUED FOR BIDDING

Revisions:

Project Number: CM083319

Sheet Title:

TYPICAL DETAILS II

- B. BUILDING RISK CATEGORY: THE BUILDING RISK CATEGORY ACCORDING TO IBC-2015 TABLE 1604.5 AND ASCE 7-10 TABLE 1.5-1 IS CATEGORY II.
- C. ELEVATIONS: REFERENCE FINISHED FLOOR ELEVATIONS OF 100'-0" EQUALS ACTUAL EXISTING FINISH FLOOR OF THE EXISTING BUILDING.

D. CONTRACT DOCUMENTS:

- 1) THE CONTRACT DOCUMENTS CONSIST OF THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT, DRAWINGS, SPECIFICATIONS, ADDENDA ISSUED PRIOR TO EXECUTION OF THE CONTRACT, OTHER DOCUMENTS LISTED IN THE AGREEMENT AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT.
- 2) THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND DISSEMINATING ALL CONTRACT DOCUMENTS AND LATEST ADDENDA TO ALL SUB-CONTRACTORS PRIOR TO DETAILING, FABRICATION OR INSTALLATION OF WORK.
- 3) CORRELATION OF THE CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IF CONFLICTING REQUIREMENTS ARE FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS AND/OR THESE GENERAL NOTES, THE MORE STRINGENT AND HIGHEST COST REQUIREMENT SHALL CONTROL UNLESS DIRECTED OTHERWISE IN WRITING BY THE OWNER'S REPRESENTATIVE.
- 4) THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DISCREPANCIES BETWEEN EACH SET, AND WITHIN EACH SET OF DRAWINGS, AND REPORT DISCREPANCIES, IF ANY, TO THE CONSTRUCTION MANAGER PRIOR TO THE DETAILING, FABRICATION AND INSTALLATION OF AFFECTED WORK.
- 5) GENERAL CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF OPENINGS THROUGH FLOORS, ROOF, AND WALLS SHOWN ON ELECTRICAL, PLUMBING, AND FIRE SUPPRESSION SYSTEM DESIGN DOCUMENTS WITH ASSOCIATED SUBCONTRACTORS.
- 6) ALTHOUGH NOT NECESSARILY SPECIFICALLY REFERENCED IN THE CONTRACT DOCUMENTS, TYPICAL DETAILS AND GENERAL NOTES APPLY TO THE ENTIRE PROJECT WHEREVER CONDITIONS SIMILAR TO THOSE DETAILED OR NOTED EXIST.
- 7) THE USE OF ELECTRONIC FILES OR REPRODUCTION OF CONTRACT DOCUMENTS BY ANY TRADE OR MATERIAL SUPPLIER IN LIEU OF COMPLETELY INDEPENDENT PREPARATION OF SHOP DRAWINGS SIGNIFIES THE SUPPLIER'S CERTIFICATION THAT ALL INFORMATION SHOWN IN THE SHOP DRAWINGS IS CORRECT, AND ASSIGNS THEMSELVES TO RESPONSIBILITY FOR ANY JOB EXPENSE ARISING DUE TO ANY ERRORS OCCURRING THEREIN.

2. DESIGN LOADS

A. <u>DEAD LOAD</u>: SELF WEIGHT OF MATERIALS, UNLESS NOTED OTHERWISE

В.	ROOF DEAD LOAD:
	1) ROOFING SYSTEM
	2) RIGID INSULATION
	3) METAL ROOF DECK 3 PSF
	4) JOIST SELF-WEIGHT
	5) CEILING SYSTEM 2 PSF
	6) ROOF COLLATERAL (LIGHTING, DUCTWORK, SPRINKLER PIPING, BRIDGING & MISC.
	FRAMING)5 PSF
	7) TOTAL
С.	UNIFORM LIVE LOADS:
	1) ROOF LIVE LOAD (UN-REDUCIBLE)20 PSF
	2) SLAB-ON-GRADE250 PSF
D	WIND LOADS:
υ.	1) GOVERNING CODE:
	2) RISK CATEGORY:II
	3) EXPOSURE CATEGORY:
	4) INTERNAL PRESSURE COEFFICIENT, GCPI:+/- 0.18
	5) TOPOGRAPHIC FACTOR, KZT:
	6) DIRECTIONALITY FACTOR, KD:
	7) ULTIMATE DESIGN WIND SPEED, Vult:
	8) NOMINAL DESIGN WIND SPEED, Vasd:
	9) DESIGN WIND PRESSURE TO BE USED FOR EXTERIOR COMPONENTS AND CLADDING (BASED ON
	100 SQ.FT. AREA):
	A) INTERIOR ZONES+23.9PSF/-26.2PSF
	B) END ZONES, (8'-0")+23.9PSF/-29.1PSF
	b) LND ZONES, (0 -0)
Ε.	SNOW LOADS:
	1) GOVERNING CODE:ASCE 7-10

	1) GOVERNING CODE:ASCE 7-10
	2) SNOW IMPORTANCE FACTOR, Is:
	3) GROUND SNOW LOAD, Pg:
	4) EXPOSURE OF ROOF:PARTIALLY EXPOSED
	5) EXPOSURE FACTOR, Ce:1.0
	6) THERMAL FACTOR, Ct:
	7) ROOF SLOPE FACTOR, Cs:
	8) CALCULATED FLAT ROOF SNOW LOAD, Pf:7.0 PSF
	9) MINIMUM FLAT ROOF SNOW LOAD, I*Pg:10 PSF
	10) RAIN ON SNOW SURCHARGE LOAD:
F.	SEISMIC DESIGN CRITERIA:
	1) GOVERNING CODE:ASCE 7-10
	2) RISK CATEGORY:II

 <u></u>
1) GOVERNING CODE:
2) RISK CATEGORY:II
3) SEISMIC IMPORTANCE FACTOR, Ie:
4) SOIL SITE CLASSIFICATION:
5) 0.2 SEC. MAPPED SPECTRAL ACCELERATION, Ss:0.272
6) 1.0 SEC. MAPPED SPECTRAL ACCELERATION, S1:0.079
7) SITE COEFFICIENT, 0.2 SEC. PERIOD, Fa:
8) SITE COEFFICIENT, 1.0 SEC. PERIOD, Fv:2.40
9) 0.2 SEC. DESIGN SPECTRAL ACCELERATION, Sds:0.287
10)1.0 SEC. DESIGN SPECTRAL ACCELERATION, Sd1:0.127
11) SEISMIC DESIGN CATEGORY:

MATERIAL DESIGN VALUES

2) SLAB-ON-GRADE:	
B. CONCRETE AND MASONRY REINFORCEMENT (MINIMUM YIELD STRENGTH) 1) ALL PLAIN AND DEFORMED BARS (ASTM A615, GRADE 60)FY = 60 KSI 2) WELDED PLAIN WIRE REINFORCEMENT (ASTM A1064)FY = 65 KSI 3) WELDED DEFORMED WIRE REINFORCEMENT (ASTM A1064)FY = 70 KSI 4) WELDABLE REINFORCING BARS (ASTM A706)FY = 60 KSI	[[

A. CONCRETE (MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS, NORMAL WEIGHT U.N.O.)

C. STRUCTURAL STEEL (MINIMUM YIELD STRENGTH)

1) ALL WIDE FLANGE SHAPES (ASTM A992)FY = 50 KSI
2) SQUARE AND RECTANGULAR HSS (ASTM A500, GRADE B)FY = 46 KSI
3) ROUND HSS (ASTM A500, GRADE B)FY = 42 KSI
4) ANCHOR RODS (ASTM F1554, GRADE 36)FY = 36 KSI
5) DEFORMED BAR ANCHORS (AWS D1.1 TYPE C, ASTM A496)FY = 70 KSI
6) ALL OTHER SHAPES AND PLATES UNLESS NOTED (ASTM A36)FY = 36 KSI

D. COLD FORMED STEEL (MINIMUM YIELD STRENGTH)

- 1) ROOF DECK (ASTM A653, SS GRADE 33, G-60 GALVANIZED)....FY = 33 KSI 2) COLD FORMED METAL STUDS, 43 MIL AND LIGHTER (ASTM A1003/A, GRADE ST33H, G-60
- GALVANIZED)......FY = 33 KSI 3) COLD FORMED METAL STUDS, 54 MIL AND HEAVIER (ASTM A1003/A, GRADE ST50H, G-60
- GALVANIZED)......FY = 50 KSI 4) COLD FORMED METAL CLIPS (ASTM A653, SS GRADE 50,G-90

GALVANIZED)......FY = 50 KSI

- 4. CONSTRUCTION LOADS AND STABILITY
 - A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL TEMPORARY CONSTRUCTION LOADS CAN BE SAFELY SUPPORTED BY THE STRUCTURE DURING CONSTRUCTION.
 - B. THE STRUCTURAL FRAMING SYSTEM AND FOUNDATIONS HAVE BEEN DESIGNED AS A COMPLETE STRUCTURAL SYSTEM FOR SUPPORT OF THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURE HAS NOT BEEN DESIGNED OR CHECKED FOR TEMPORARY CONSTRUCTION LOADS NOR HAS IT BEEN DESIGNED OR CHECKED FOR ADEQUACY OR STABILITY AS A PARTIALLY ERECTED STRUCTURE.
 - C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE ABILITY OF THE PARTIALLY COMPLETED OR FULLY COMPLETED STRUCTURE TO RESIST ALL CONSTRUCTION LOADS INCLUDING BUT ARE NOT NECESSARILY LIMITED TO MATERIAL STAGING, PERSONNEL, AND EQUIPMENT.
 - D. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORES, GUYS, BRACES, AND OTHER SUPPORTS DURING CONSTRUCTION TO KEEP STRUCTURAL FRAMING COMPONENTS SECURE, PLUMB, AND IN ALIGNMENT AGAINST TEMPORARY CONSTRUCTION LOADS AND LOADS EQUAL IN INTENSITY TO DESIGN LOADS. THE TEMPORARY SUPPORTS SHALL BE SUFFICIENT TO SECURE THE PARTIALLY ERECTED STRUCTURE OR ANY PORTION THEREOF AGAINST LOADS THAT ARE LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, INCLUDING THOSE DUE TO WIND AND THOSE THAT RESULT FROM CONSTRUCTION OPERATIONS.
 - E. THE CONTRACTOR SHALL NOT REMOVE TEMPORARY SUPPORTS UNTIL THE INSTALLATION OF ALL STRUCTURAL ELEMENTS IS COMPLETE AND HAS BEEN ACCEPTED AS COMPLETE BY THE OWNER'S REPRESENTATIVE.

FOUNDATION NOTES

- A. EXISTING PIER FOUNDATIONS: RECORD DRAWINGS INDICATE EXISTING STRUCTURE IS SUPPORTED ON PIER AND GRADE BEAM FOUNDATIONS. WHERE SIGNIFICANT ADDITIONAL LOADS ARE ADDED TO EXISTING PIERS, THESE DRAWINGS INDICATE THE ADDITION OF HELICAL PIERS TO SUPPLEMENT THE EXISTING PIERS.
- B. OBSERVATION OF BEARING CONDITIONS: THE GENERAL CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER TO OBSERVE THE FOUNDATION EXCAVATIONS PRIOR TO STEEL OR CONCRETE PLACEMENT TO DETERMINE IF FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS NOTED ABOVE.

C. HELICAL PIER FOUNDATIONS:

- 1) HELICAL PIER FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE SERVICE LOADS SHOWN ON THE DRAWINGS. DESIGNS SHALL BE SUBMITTED FOR APPROVAL
- 2) SUBMIT SHOP DRAWINGS SHOWING PROFILES AND PRODUCT COMPONENTS. SUBMIT CALCULATIONS FOR THE PIER DESIGN, INCLUDING ICC EVALUATION TEST REPORTS SHOWING COMPLIANCE WITH ICC AC358. CALCULATION SHALL BE PREPARED BY AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF OKLAHOMA.

3) MANUFACTURED COMPONENTS SHALL BE HOT DIPPED GALVANIZED

- TESTS AND INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH ICC AC358.
- 5) SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LIFETIME WARRANTY DOCUMENT EXECUTED BY AUTHORIZED COMPANY OFFICIAL

6) INSTALLATION SHALL BE BY CERTIFIED INSTALLER OR DEALER

- A) PROVIDE INSTALLATION TORQUE UNITS, ROTARY TYPE, FORWARD AND REVERSE CAPABILITY, ELECTRIC OR HYDRAULIC POWERED, CAPABLE OF POSITIONING THE SCREW ANCHOR AT THE DESIGNED ANGLE. MINIMUM DRIVE EQUIPMENT RATING TO EQUAL OR EXCEED THE MAXIMUM TORQUE RATING OF THE SPECIFIED SCREW ANCHOR. PROVIDE TORQUE MONITORING DEVICE AS PART OF THE INSTALLING UNIT OR AS A SEPARATE IN-LINE DEVICE. MAKE AVAILABLE CALIBRATION TORQUE MONITORING DATA FOR ENGINEER, INSPECTOR, AND OWNER.
- B) POSITION SCREW ANCHOR AS INDICATED ON CONSTRUCTION DOCUMENTS. ESTABLISH PROPER ALIGNMENT AT THE START OF CONSTRUCTION.
- C) CONNECT THE INSTALLATION UNIT TO THE ANCHOR WITH MANUFACTURER'S APPROVED ADAPTERS. PROVIDE SAFE AND SECURE CONNECTION TO SCREW ANCHORS AND IN A SMOOTH AND CONTINUOUS MANNER AT APPROPRIATE RATE OF ANCHOR ROTATION.
- D) MONITOR TORQUE APPLIED BY USING THE INSTALLING UNIT DURING THE ENTIRE INSTALLATION, AND RECORD VALUES ACHIEVED ON EACH SCREW ANCHOR. REMOVE ENCOUNTERED OBSTRUCTIONS, OR RELOCATE SCREW ANCHOR AND ADJACENT ANCHORS AS
- E) PROVIDE EXTENSION MATERIAL TO OBTAIN INDICATED DEPTH. COUPLE WITH BOLTS PROVIDED AS PART OF EXTENSION. INSTALL TO MINIMUM DEPTH INDICATED. PROVIDE GROUND COVER (5 FT MINIMUM) ABOVE THE TOP HELIX. OBTAIN WRITTEN PERMISSION FROM ENGINEER BEFORE PROCEEDING IF INDICATED DEPTH OR MINIMUM TORQUE CANNOT BE OBTAINED.
- F) CONNECT SCREW ANCHOR TO PIER CAP; USE MANUFACTURER APPROVED STEEL BRACKET OR APPROVED DEVELOPED REINFORCING BARS.
- 7) PROJECT RECORD DOCUMENTS FOR INSTALLED MATERIALS SHALL BE IN ACCORDANCE WITH DIVISION 1 CLOSEOUT SUBMITTALS (PROJECT RECORD DOCUMENTS) SECTION. ACCURATELY RECORD THE FOLLOWING: TYPE (NUMBER AND SIZE OF HELICES) AND SIZE; ACTUAL LOCATIONS OF SCREW ANCHORS. ANCHOR DIAMETER AND ANCHOR LENGTH. INSTALLATION ANGLE BELOW HORIZONTAL; EXTENSION LENGTH ALONG SHAFT AND DATUM; ANCHOR TESTING (IF REQUIRED); TORQUE INSTALLATION RECORDS ON ALL SCREW ANCHORS AND TORQUE MONITORING CALIBRATION DATA.

6. CONCRETE CONSTRUCTION NOTES

- A. DESIGN CRITERIA: THE DESIGN OF CONCRETE IS GOVERNED BY "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14) AND COMMENTARY (ACI 318R-14)."
- B. CONCRETE CONSTRUCTION CRITERIA: ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-16)."
- C. TOLERANCES: TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS (ACI 117-10) AND COMMENTARY (ACI 117R-10)."

D. CONCRETE MIXTURES:

- A) PORTLAND CEMENT: ASTM C150 TYPE I OR II UNLESS SPECIFICALLY NOTED OTHERWISE. B) FLY ASH: ASTM C618 CLASS F OR C. THE MAXIMUM PERCENTAGE OF FLY ASH SHALL NOT EXCEED 25 PERCENT OF THE TOTAL CEMENTITIOUS MATERIAL
- 2) ALL CONCRETE MIXES SHALL BE COMPRISED OF NORMAL WEIGHT AGGREGATES CONFORMING TO ASTM C33, EXCEPT WHERE SPECIFICALLY INDICATED AS LIGHTWEIGHT, IN WHICH CASE AGGREGATES SHALL CONFORM TO ASTM C330.
- 3) MIXING WATER SHALL CONFORM TO ASTM C1062. MIXING WATER, INCLUDING THAT PORTION OF MIXING WATER CONTRIBUTED IN THE FORM OF FREE MOISTURE ON AGGREGATES, SHALL NOT CONTAIN DELETERIOUS AMOUNTS OF CHLORIDE IONS.
- 4) ADMIXTURES, IF USED, SHALL CONFORM TO THE FOLLOWING: A) WATER REDUCTION AND SETTING TIME MODIFICATION: ASTM C494.
- B) PRODUCING FLOWING CONCRETE: ASTM C1017.
- C) AIR ENTRAINMENT: ASTM C260. D) INHIBITING CHLORIDE INDUCED CORROSION: ASTM C1582.
- 5) MIX DESIGNS SHALL BE PROPORTIONED BASED ON THE FOLLOWING MIX CHARACTERISTICS;
- A) BELOW GRADE FOUNDATIONS AND WALLS 1) EXPOSURE CLASSES, F1, S0, W0, C1
 - 3) MAXIMUM WATER/CEMENT RATIO: 0.55 4) MAXIMUM AGGREGATE SIZE: 1 1/2 INCHES

2) 28-DAY COMPRESSIVE STRENGTH: 3,500 PSI

5) TARGET AIR CONTENT: 4.5 PERCENT PLUS OR MINUS 1.5 PERCENT

- 6) MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT: 0.30
- B) INTERIOR SLABS-ON-GRADE AND ELEVATED CAST-IN-PLACE SLABS
- 1) EXPOSURE CLASSES, FO, SO, WO, CO 2) 28-DAY COMPRESSIVE STRENGTH: 4,000 PSI
- 3) MAXIMUM WATER/CEMENT RATIO: 0.45
- 4) MAXIMUM AGGREGATE SIZE: 1 1/2-INCHES
- 5) TARGET AIR CONTENT: DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3 PERCENT
- 6) MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT: 1.00
- 6) CONCRETE MIX PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF "SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301)." SO THAT THE CONCRETE
- SATISFIES THE FOLLOWING THREE REQUIREMENTS A) THE CONCRETE CAN BE PLACED READILY WITHOUT SEGREGATION INTO FORMS AND AROUND REINFORCEMENT UNDER ANTICIPATED PLACEMENT CONDITIONS. THE CONCRETE PRODUCER SHALL DETERMINE WHETHER ADMIXTURES ARE NECESSARY FOR WATER REDUCTION, SET
- TIME, OR SLUMP REQUIREMENTS. B) THE CONCRETE SHALL MEET REQUIREMENTS FOR THE ASSIGNED EXPOSURE CLASSES
- OUTLINED HEREIN. C) THE CONCRETE SHALL CONFORM TO STRENGTH TEST REQUIREMENTS FOR STANDARD-CURED
- 7) DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE SUBMITTED FOR REVIEW BEFORE THE MIXTURE IS USED. EVIDENCE OF THE ABILITY OF THE PROPOSED MIXTURE TO COMPLY WITH THE CONCRETE MIXTURE REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS SHALL BE INCLUDED IN THE SUBMITTAL. THE EVIDENCE SHALL BE BASED ON FIELD TEST RECORDS OR LABORATORY TRIAL BATCHES

E. CONCRETE MISCELLANEOUS:

- 1) WATERSTOPS AND WATERPROOFING: ALL CONSTRUCTION JOINTS (VERTICAL AND HORIZONTAL) IN BELOW-GRADE CONCRETE WALLS, TRENCHES AND PITS SHALL BE KEYED AND HAVE BENTONITE WATERSTOPS INSTALLED UNLESS NOTED OTHERWISE. ALL BELOW-GRADE CONCRETE WALLS, PITS AND TRENCHES SHALL BE WATERPROOFED AS SHOWN IN ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE.
- 2) EQUIPMENT PADS: PROVIDE CONCRETE EQUIPMENT PADS OF SIZE REQUIRED FOR EQUIPMENT FURNISHED. SEE MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS FOR NUMBER, SIZE, AND LOCATION OF SUCH PADS. UNLESS OTHERWISE SHOWN, MINIMUM PAD THICKNESS SHALL BE 4" AND SHALL EXTEND A MINIMUM OF 6" BEYOND THE FACE OF THE EQUIPMENT. MINIMUM REINFORCING SHALL BE #4 BARS AT 12" O.C. EACH WAY. TOOLED OR CHAMFERED EDGES SHALL BE PROVIDED AT ALL EQUIPMENT PADS. ANCHORAGE TO SUPPORTING SLAB SHALL BE MADE. REFER TO TYPICAL DETAILS.
- 3) CHAMFERED EDGES: UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.
- 4) SURFACE FINISH: ALL HORIZONTAL CONCRETE SURFACES SHALL HAVE A TROWELED FINISH UNLESS NOTED OTHERWISE IN ARCHITECTURAL DRAWINGS OR FLOORING SPECIFICATIONS.
- 5) MOIST CURING OF SLABS: SLABS-ON-GRADE AND SLABS-ON-DECK SHALL BE WATER CURED FOR A MINIMUM OF 7 DAYS BY PONDING, SPRAYING, SPRINKLING OR BY USE OF SATURATED COVERINGS. CURING COMPOUNDS ARE EXPRESSLY PROHIBITED

7. POST-INSTALLED ANCHORS AND DOWELS

- A. QUALIFICATION REQUIREMENTS FOR INSTALLERS
- 1) CONTRACTOR SHALL REQUEST, SCHEDULE AND FACILITATE THE ANCHOR AND/OR ADHESIVE MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE MANUFACTURER'S SPECIFIED ANCHORING PRODUCTS. THE ENGINEER MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S ANCHOR INSTALLATION PERSONNEL ARE TRAINED PRIOR TO COMMENCEMENT OF ANCHOR INSTALLATION OPERATIONS.
- 2) PER ACI 318-14 SECTION 17.8.2.2, INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER (AAI) CERTIFICATION PROGRAM, OR EQUIVALENT.

B. QUALIFICATION REQUIREMENTS FOR PRODUCTS

- 1) POST-INSTALLED EXPANSION AND UNDERCUT ANCHORS SHALL MEET THE ASSESSMENT CRITERIA OF ACI 355.2 "QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN
- 2) POST-INSTALLED ADHESIVE ANCHORS SHALL MEET THE ASSESSMENT CRITERIA OF ACI 355.4 "QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE."
- C. APPROVED ANCHORING PRODUCTS: THE ANCHORING SYSTEMS SHOWN BELOW HAVE BEEN USED IN THE ANCHOR DESIGNS SHOWN IN THE CONSTRUCTION DOCUMENTS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES. LOAD RESISTANCE. INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

1) ANCHORAGE TO CONCRET

- A) ADHESIVE ANCHORS:
- (1) HILTI HIT-HY 200 SYSTEM WITH HILTI HIT-Z ROD OR HAS-E THREADED ROD [ICC
- (2) HILTI HIT-RE 500 V3 SYSTEM WITH HILTI HAS-E THREADED ROD [ICC ESR-3814].
- B) MEDIUM DUTY MECHANICAL ANCHORS:
- (1) HILTI KWIK HUS-EZ AND KWIK HUS-EZ I SCREW ANCHORS [ICC ESR-3027] (2) HILTI KWIK BOLT-TZ EXPANSION ANCHORS [ICC ESR-1917]. (3) HILTI KWIK BOLT 3 EXPANSION ANCHORS (UNCRACKED CONCRETE ONLY) [ICC
- C) HEAVY DUTY MECHANICAL ANCHORS:

ESR-2302]

- (1) HILTI HDA UNDERCUT ANCHORS [ICC ESR-1546] (2) HILTI HSL-3 EXPANSION ANCHORS [ICC ESR-1545]
- 2) REBAR DOWELING INTO CONCRETE
- (1) HILTI HIT-HY 200 SYSTEM WITH CONTINUOUSLY DEFORMED REBAR [ICC ESR-3187]. (2) HILTI HIT-RE 500 V3 SYSTEM WITH CONTINUOUSLY DEFORMED REBAR [ICC ESR-3814].

D. PREPARATION PRIOR TO INSTALLATION

- 1) CURING OF BASE MATERIAL: DO NOT DRILL OR CORE HOLES INTO SUPPORTING CONCRETE OR MASONRY MATERIALS UNTIL THE CONCRETE, MORTAR AND/OR GROUT HAVE BEEN ADEQUATELY CURED TO ACHIEVE FULL DESIGN STRENGTH.
- 2) AVOIDANCE OF EMBEDDED ITEMS: PRIOR TO DRILLING OR CORING OPERATIONS. THE CONTRACTOR SHALL LOCATE AND MARK ALL POTENTIALLY CONFLICTING REINFORCING BARS, UTILITIES AND OTHER EMBEDDED ITEMS BY INDUCTION SCANNING, GROUND PENETRATING RADAR, X-RAY, OR OTHER APPROVED NON-DESTRUCTIVE METHOD. CONTRACTOR SHALL AVOID DRILLING OR CORING HOLES THAT MAY DAMAGE THESE EMBEDDED ITEMS. NOTIFY THE ENGINEER IF CONFLICTING EMBEDDED ITEMS DO NOT ALLOW INSTALLATION OF POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND/OR APPROVED SHOP DRAWINGS.

E. INSTALLATION

1) ALL DRILLING AND CORING EQUIPMENT AND ALL METHODS FOR INSTALLATION OF POST-INSTALLED ANCHORS AND DOWELS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII)

2) UNLESS SPECIFICALLY SHOWN OTHERWISE, ALL HOLES SHALL BE INSTALLED

PERPENDICULAR TO THE CONCRETE OR MASONRY SURFACE.

3) ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. ANCHOR SPACING AND EDGE DISTANCE VALUES SHALL NOT BE LESS THAN RECOMMENDED BY THE ANCHOR MANUFACTURER.

F. SPECIAL INSPECTION REQUIREMENTS

- 1) PER ACI 318-14 SECTION 17.8.2.4, ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIFICALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL FURNISH A REPORT TO THE ENGINEER AND BUILDING OFFICIAL THAT THE WORK COVERED BY THE REPORT HAS BEEN PERFORMED AND THAT THE MATERIALS AND INSTALLATION PROCEDURES USED CONFORM WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- 2) PERIODIC SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL OTHER POST-INSTALLED ANCHORS NOT INCLUDED IN THE NOTE ABOVE.
- A. PARAMETERS FOR EXPANSION AND UNDERCUT ANCHORS
- B. PARAMETERS FOR ADHESIVE ANCHORS
- C. PROOF LOADING OF ADHESIVE ANCHORS
- D. CORROSION PROTECTION FOR EXPOSED ANCHORS INTENDED FOR ATTACHMENT WITH FUTURE

8. STEEL CONSTRUCTION NOTES

- A. GOVERNING STANDARDS: ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND AS SUPPLEMENTED BY THESE GENERAL NOTES AND THE PROJECT DRAWINGS AND SPECIFICATIONS.
- 1) ANSI/AISC 360-10 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (JUNE 22.
- 2) AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (APRIL
- 14, 2010). 3) ANSI/AWS "D1.1-STRUCTURAL WELDING CODE - STEEL", 2011 EDITION.
- 4) RCSC-2010 "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" (DECEMBER 31, 2009)

B. STRUCTURAL BOLTS & ANCHOR RODS:

- 1) STEEL CONTRACTOR SHALL FURNISH ERECTION BOLTS AS REQUIRED FOR FIELD CONNECTIONS.
- 2) ALL BOLTS SHALL BE 3/4 IN. DIAMETER ASTM A325 WITH SUITABLE WASHERS AND NUTS UNLESS OTHERWISE SHOWN IN THE CONSTRUCTION DOCUMENTS OR APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
- 3) ALL BOLTS SHALL BE TIGHTENED TO THE SNUG-TIGHTENED JOINT REQUIREMENTS OF RCSC-10 EXCEPT AT SLIP-CRITICAL JOINTS OR WHERE NOTED OTHERWISE IN CONSTRUCTION DOCUMENTS OR IN FABRICATOR'S CONNECTION DESIGN.
- 4) UNLESS OTHERWISE INDICATED IN THE DRAWINGS, ALL ANCHOR RODS SHALL CONFORM TO THE SPECIFIED MATERIAL GRADE SHALL BE A MINIMUM 3/4 INCH DIAMETER WITH A MINIMUM FOUNDATION EMBEDMENT AS INDICATED IN STRUCTURAL DETAILS. THE EMBEDDED END SHALL HAVE EITHER A STANDARD BOLT HEAD, A HEAVY HEX NUT WITH THE THREADS SPOILED ABOVE AND BELOW THE NUT, OR JAMMED DOUBLE NUTS. BASE PLATES SHALL BE LEVELED WITH LEVELING NUTS AND OVERSIZED WASHER PLATES OR WITH SHIM PACKS AT THE ERECTOR'S OPTION.
- 5) STEEL PLATE TEMPLATES SHALL BE PROVIDED TO FACILITATE PLACEMENT OF ANCHOR RODS IN DETAILED PLAN POSITIONS AND ELEVATIONS WHILE PLACING CONCRETE.
- 6) AFTER FINAL BASE PLATE POSITIONING, ANCHOR ROD NUTS SHALL BE INSTALLED TO A SNUG-TIGHT CONDITION AND WASHER PLATES SHALL BE FIELD WELDED AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

C. STEEL FABRICATION & FINISH:

- 1) SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING FABRICATION. ANY FABRICATION INITIATED PRIOR TO APPROVAL OF SHOP DRAWINGS WILL BE AT THE SOLE RISK OF THE FABRICATOR.
- 2) ALL SHOP AND FIELD WELDS SHALL BE MADE IN ACCORDANCE WITH THE ANSI/AWS "D1.1-STRUCTURAL WELDING CODE - STEEL", 2011 EDITION. ALL WELDING SHALL USE LOW HYDROGEN PROCESSES.
- 3) ALL BEAMS THAT ARE REQUIRED TO HAVE CAMBER SHALL BE FABRICATED WITH CAMBER UPWARD. BEAMS WITHOUT SPECIFIED CAMBER SHALL BE FABRICATED SUCH THAT AFTER ERECTION, ANY NATURAL CAMBER DUE TO ROLLING OR SHOP FABRICATION IS UPWARD.

4) CUTS. HOLES. COPING. ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON

THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED. 5) THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS. ANY SUCH ERECTION

AIDS SHALL BE REMOVED FROM THE COMPLETED STRUCTURE IF DIRECTED BY THE OWNER'S

REPRESENTATIVE. 6) ALL EXTENSION BARS, RUN-OFF PLATES, AND BACKING BARS USED IN WELDED CONNECTIONS SHALL BE REMOVED AND THE JOINTS SHALL BE GROUND SMOOTH WHERE SUCH CONNECTION IS PERMANENTLY EXPOSED TO VIEW OR IS DESIGNATED AS ARCHITECTURALLY EXPOSED

STRUCTURAL STEEL.

- A) ALL STEEL EXPOSED TO EXTERIOR WEATHER OR AN UNCONTROLLED ENVIRONMENT SHALL
- BE BLAST CLEANED AND PRIMED WITH A SUBMITTED AND APPROVED ZINC-RICH PRIMER. B) INTERIOR STEEL SHALL BE SHOP PRIMED WITH THE FABRICATORS STANDARD SHOP PRIMER.
- C) SHOP PRIMER SHALL NOT BE APPLIED TO THE FOLLOWING AREAS: i) SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY

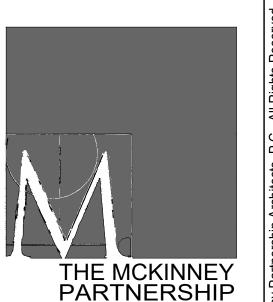
DETAILS FOR ROOF OPENING FRAME DETAIL.

- EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES. ii) SURFACES TO BE FIELD WELDED.
- iii) SURFACES TO BE HIGH-STRENGTH BOLTED WITH SLIP-CRITICAL CONNECTIONS. iv) SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.

v) GALVANIZED SURFACES. D. STEEL MISCELLANEOUS:

- 1) ALL EDGE ANGLES SUPPORTING ROOF OR FLOOR DECK SHALL BE SPLICED OVER SUPPORTS.
- 2) ALL ELEVATED MECHANICAL EQUIPMENT SHALL BE SUPPORTED BY STEEL FRAMING. IF SPECIFIC FRAMING SIZES ARE NOT PROVIDED ON THE FRAMING PLAN, REFER TYPICAL
- 3) SUBSTITUTION OF POST-INSTALLED ANCHORS FOR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- 4) WHERE POST-INSTALLED ANCHORS ARE USED IN CONTINUOUS ANGLES, FABRICATE ANGLE WITH OPTIONAL HOLE LOCATIONS TO ALLOW REMEDIATION OF CASES WHERE ANCHORS FOUL WITH REBAR. AS AN EXAMPLE, FOR A CONTINUOUS ANGLE WITH ANCHORS AT 24" ON CENTER, PROVIDE HOLES AT 6" ON CENTER.





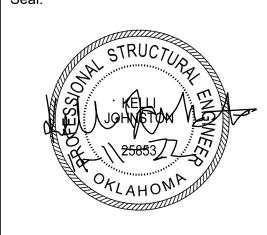
architects 3600 West Main Suite 200

Norman, Oklahoma

405.360.1400 p

405.364.8287 f

tmparch.com



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Project Number:

CM083319

GENERAL NOTES

Sheet Number:

Sheet Title:

1. STATEMENT OF SPECIAL INSPECTIONS NOTES:

- A. THIS STATEMENT OF SPECIAL INSPECTIONS IS INCLUDED AS REQUIRED BY SECTION 1704.3 OF CHAPTER 17 OF 2015 INTERNATIONAL BUILDING CODE.
- B. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE, AISC 360, AND ACI 530 AS SUMMARIZED HEREIN. GENERAL REQUIREMENTS ARE LISTED BELOW AND IN THE ATTACHED INSPECTION TABLES.
- C. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS. IF CONFLICTING REQUIREMENTS ARE FOUND BETWEEN STATEMENTS OF SPECIAL INSPECTIONS AND THE PROJECT SPECIFICATIONS, THE MORE STRINGENT PROVISION SHALL CONTROL UNLESS DIRECTED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
- D. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS FOR THIS PROJECT. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL
- E. PRIOR TO THE START OF CONSTRUCTION, EACH SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUALITIES.
- F. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR THE SPECIAL INSPECTOR. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION OR TESTING.
- G. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REASONABLE NOTICE TO THE SPECIAL INSPECTOR(S) REGARDING WHEN ELEMENTS OF THE PROJECT WILL BE READY FOR EFFICIENT IMPLEMENTATION OF SPECIAL INSPECTIONS.
- H. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE LATEST VERSION OF ALL APPROVED PLANS AND SHOP DRAWINGS FOR THE SPECIAL INSPECTOR'S USE IN PERFORMING SPECIAL INSPECTIONS.
- I. CONTRACTOR SHALL GRANT ACCESS TO OWNER'S SPECIAL INSPECTOR AS IS REASONABLY NECESSARY FOR THE PROPER PERFORMANCE OF SPECIAL INSPECTIONS.
- J. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND JOBSITE SAFETY ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR
- K. APPROVED SPECIAL INSPECTORS SHALL KEEP RECORDS OF THEIR SPECIAL INSPECTIONS AND TESTS. THE SPECIAL INSPECTOR SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF DISCREPANCIES SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL.
- L. SPECIAL INSPECTION OF FABRICATED ITEMS: WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION. THIS REQUIREMENT MAY BE WAIVED IF THE EXCEPTIONS OUTLINED BELOW ARE MET.
- 1) EXCEPTION 1: SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND IBC 2015. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING OFFICIAL.
- 2) EXCEPTION 2: SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE FABRICATOR IS REGISTERED AND APPROVED IN ACCORDANCE WITH SECTION 1704.2.5.1 OF IBC 2015
- A) FABRICATOR APPROVAL: SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 OF IBC 2015 STATING THAT THE WORK WAS APPROVED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- M. PER IBC SECTION 1704.3.2, THE SEISMIC FORCE RESISTING SYSTEMS FOR THIS FACILITY ARE DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL NOTES. NOTE THAT PER IBC SECTION 1705.12.1.1, THE EXCEPTION IS ENVOKED FOR STEEL SYSTEMS WITH AN R=3 AND A SEISMIC DESIGN CATEGORY C.

2. REQUIRED SPECIAL INSPECTIONS AND TESTS

- A. THE SPECIAL INSPECTOR SHALL PROVIDE CONTINUOUS OR PERIODIC INSPECTIONS AS SHOWN IN THE ATTACHED INSPECTION TABLES.
- 1) CONTINUOUS INSPECTION: THE SPECIAL INSPECTOR SHALL BE PRESENT AT ALL PROCEDURAL EVENTS.
- 2) PERIODIC INSPECTION: THE SPECIAL INSPECTOR SHALL BE PRESENT AT THE START OF THE WORK AND PERIODIC INSPECTION IS MADE TO VERIFY PROGRESS OF WORK IS IN COMPLIANCE.
- B. STRUCTURAL STEEL AND DECKING
- 1) STEEL QUALITY CONTROL AND QUALITY ASSURANCE
- A) QUALITY CONTROL (QC) AS SPECIFIED IN AISC 360 CHAPTER N AND SUMMARIZED HEREIN SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- B) QUALITY ASSURANCE (QA) AS SPECIFIED IN AISC 360 CHAPTER N AND SUMMARIZED HEREIN SHALL BE PROVIDED BY AN INDEPENDENT INSPECTOR.
- C) NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE (QA).
- D) COORDINATED INSPECTION: WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QUALITY CONTROL INSPECTOR (QCI) AND QUALITY ASSURANCE INSPECTOR (QAI) SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONE PARTY. THE QAI SHALL PERFORM COORDINATED INSPECTION UNLESS OTHERWISE AUTHORIZED BY THE EOR AND AHJ.
- 2) STEEL QUALITY INSPECTOR QUALIFICATIONS
- A) QUALITY CONTROL INSPECTOR (QAC) OF ERECTOR/FABRICATOR SHALL BE QUALIFIED TO THE SATISFACTION OF THE ERECTOR/ FABRICATOR'S QC PROGRAM AND AISC 360 SECTION N.4.1 REQUIREMENTS.

- B) QUALITY ASSURANCE INSPECTOR (QAI) SHALL BE QUALIFIED BY A QA AGENCY AND AISC 360 SECTION N.4.2 REQUIREMENTS.
- C) NON-DESTRUCTIVE TESTING PERSONNEL, OR OTHER THAN VISUAL, SHALL BE QUALIFIED IN ACCORDANCE WITH EMPLOYER'S WRITTEN PRACTICE MEETING OR EXCEEDING REQUIREMENTS OF AWS D1.1/D1.1M AND EITHER ANST SNT-TC-1A OR ANST CP-189 REQUIREMENTS.
- 3) INSPECTION/APPROVAL OF STEEL FABRICATORS: WHERE FABRICATION OF STRUCTURAL STEEL LOADBEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A STEEL FABRICATOR'S SHOP, REFER TO PARAGRAPH 1.L ABOVE
- 4) REFER ATTACHED TABLES FOR SPECIAL INSPECTIONS AND TESTING FOR STEEL CONSTRUCTION.

C. CONCRETE CONSTRUCTION

- 1) SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ITEMS IDENTIFIED IN IBC TABLE 1705.3.
- 2) IBC SECTION 1705.3, EXCEPTION 1 DOES NOT REQUIRE SPECIAL INSPECTIONS FOR ISOLATED FOOTINGS OF BUILDINGS LESS THAN THREE STORIES IN HEIGHT THAT ARE FULLY SUPPORTED ON EARTH OR ROCK. NOTE THAT ALL ISOLATED FOOTINGS IN THE GYMNASIUM AND ISOLATED FOOTINGS IN THE CLASSROOM BUILDING SUPPORTING COLUMNS AND/OR DIAGONALS ASSOCIATED WITH THE LATERAL BRACING SYSTEM SHALL BE SPECIALLY INSPECTED AND TESTED.

D. SOILS

formed.

- 1) REQUIRED SPECIAL INSPECTIONS AND SOIL TESTS ARE AS SHOWN IN TABLE 1705.6 OF IBC.
- 2) HELICAL PIERS ARE TO BE PERFORMANCE SPECIFIED. THE CONTRACTOR SHALL MAKE APPROVED SUBMITTALS AVAILABLE TO THE SPECIAL INSPECTOR. GRADATION VERIFICATION OF RAMMED EARTH IS REQUIRED. VERIFICATION OF PLACEMENT TECHNIQUES AND VIBRATORY EQUIPMENT IS REQUIRED FOR SPECIAL INSPECTION AS

TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION CONTINUOUS PERIODIC **TYPE** SPECIAL SPECIAL STANDARD REFERENCE INSPECTION INSPECTION ACI 318 Ch. 20, Inspect reinforcement, including 1908.4 25.2, 25.3, 26.6.1prestressing tendon, and verify placement. 26.6.3) Reinforcing bar welding: a) Verify weldability of reinforcing bars other than ASTM A706; AWS D1.4 ACI 318: 26.5.4 b) Inspect single-pass fillet welds, maximum 5/16"; and c) Inspect all other welds. ACI 318:17.8.2 Inspect anchors cast in concrete.) Inspect size, embedment, and installation of Manuf. Requirements post-installed anchors. ACI 318: 1904.1, 1904.2, 5) Verify use of required design mix. Ch. 19, 26.4.3, 1908.2, 1908.3 26.4.4 6) Prior to concrete placement, fabricate ASTM C 172 specimens for strength tests, perform slump ASTM C 31 1908.10 and air content tests, and determine the ACI 318: 26.4, temperature of the concrete. 26.12 1908.6, ACI 318: Inspect concrete and shotcrete placement for proper application techniques. 26.5 1908.7, 1908.8 B) Verify maintenance of specified curing 1908.9 26.5.3-26.5.5 temperature and techniques. 9) Inspect prestressed concrete for: a) Application of prestressing forces; and ACI 318: 26.10 b) Grouting of bonded prestressing Inspect erection of precast concrete ACI 318: Ch. 26.8 11) Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned ACI 318: 26.11.2 concrete and prior to removal of shores and forms from beams and structural slabs. 12) Inspect formwork for shape, location and ACI 318: dimensions of the concrete member being 26.11.1.2(b)

1)	Use of qualified welders	-	QC and QA		
2)	Packaging and exposure control and handling of welding consumables.	-	QC and QA	-	
3)	Welding over cracked tack welds	-	QC and QA	_	
4)	Environmental conditions including but not limited to precipitation, temperature and wind.	-	QC and QA	AISC 360, Table N5.4-2	
5)	Verify settings on equipment, travel speeds, elected materials, shielding gas type/floow rate, preheating interpass temperatures and proper position meets WPS standards.	-	QC and QA	During Welding	
6)	Verify welding techniques for interpass, final cleaning, profile limitations, and quality requirements.	-	QC and QA	-	
7)	Welds are cleaned and painted where required.	-	QC and QA		
8)	Verify size, length and locations of welds.	QC and QA	-		
9)	Visually verify welds for crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercutting, and porosity.	QC and QA	-	AISC 360, Table N5.4-2 After Welding	
10)	Arc strikes, k-area cracks within 3" of weld, removal of backing, and repair activities as applicable.	QC and QA	-	_	
11)	Documentation of acceptance or rejection of welded joint or member.	QC and QA	-		
b. <i>A</i>	American Welding Society requirements for structur	al steel and cold-f	ormed steel deck	:	
1)	Complete and partial joint penetration groove welds.	Х	-		
2)	Multipass fillet welds.	Х	-	AWS D1.1	
3)	Single-pass fillet welds > 5/ 16"	Х	-		
4)	Plug and slot welds.	х	-		
5)	Single-pass fillet welds ≤ 5/ 16"	-	х		
6)	Floor and roof deck welds.	-	х	AWS D1.3	
7)	Welded studs & deformed bar anchors (DBA's).	-	Х	AWS D1.1	
8)	Welded sheet steel for cold-formed steel members	-	Х	AWS D1.3	
9)	Welding of stairs & railing systems	-	х	AWS D1.1	
c. F	Reinforcing steel:				
1)	Verification of weldability of reinforcing steel other than ASTM A 706.	-	Х	AWS D1.4, ACI 318: Section 3.5.2	
2)	Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	Х	-		
3)	Shear reinforcement.	х	-		
4)	Other reinforcing steel.	-	х		
6. Inspe	ection of steel elements of composite constructi	on prior to concr	ete placement:	•	
a. F	Placement and installation of steel deck.	QC and QA	-	AISC 360, Table N6.1	
	Placement and installation of steel HSA.	QC and QA	-	AISC 360, Table N6.1	
b. F				AISC 360,	

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION

5. Inspection of welding:

FREQUENCY OF INSPECTION

CONTINUOUS

(inspect each

joint/member)

PERIODIC

(inspect

random

joint/members)

REFERENCED

STANDARD

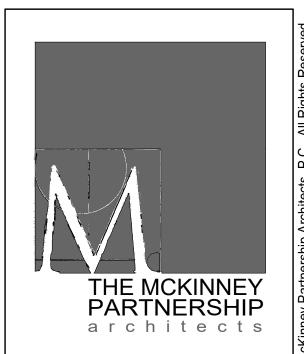
TABLE 1705.6 REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS				
ТҮРЕ	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION		
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X		
Verify excavations are extended to proper depth and have reached proper material.	-	X		
Perform classification and testing of compacted fill materials.	-	X		
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-		
Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	x		

		FREQUENCY OF INSPECTION		REFERENCED STANDARD
VERIFICATION AND INSPECTION		CONTINUOUS (inspect each joint/member)	PERIODIC (inspect random joint/members)	
1. Materia	al verification of high-strength bolts, nuts	and washers:		
a.	Identification markings to conform to ASTM standards specified in the approved construction documents.	-	QC and QA	AISC 360, Section A3.3 and applicable ASTM material standard
b.	Manufacturer's certifications available for fastener materials.	QA	QC	
C.	Fasteners marked in accordance with ASTM requirements.	-	QC and QA	
d.	Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane).	-	QC and QA	
e.	Proper bolting procedure selected for joint detail.	-	QC and QA	AISC 360, Table N5.6-1
f.	Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.	-	QC and QA	Table No.6-1
g.	Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.	QC	QA	
h.	Proper storage provided for bolts, nuts, washers and other fastener components.	-	QC and QA	

• For joints required to be tightened only to the snug-tight condition, the special inspector need only verify that the

connected materials have been drawn together a			ed only verily that the	
a. Snug-tight joints.	-	QC and QA		
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.	-	QC and QA	AISC 360, Section M2.5	
 c. Pretensioned and slip-critical joints using tum-of-nut without matchmarking or calibrated wrench methods of installation. 	QC and QA	-		
 d. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required. 	-	QC and QA	AISC 360,	
Fastener component not turned by the wrench prevented from rotating.	-	QC and QA	Table N5.6-2	
f. Document acceptance or rejection of bolted connections.	QC and QA	-	AISC 360, Table N5.6-3	
3. Material verification of structural steel and cold-fo	I.O.:			
For structural steel, identification markings to conform to AISC 360.	-	QC and QA	AISC 360, Section M1	
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	-	QC and QA	Applicable ASTM material standards	
4. Inspection prior to welding:				
Verify identification markings of weld filler materials conform to AWS specification in the approved construction documents.	-	QC and QA	AISC 360, Section A3.5 and applicable AWS AS documents	
 b. Welding procedure specifications are available. 	QC and QA	-		
c. Manufacturer certifications for welding consumables available.				
d. Material identification (type/grade) and welded identification system.	-	QC and QA	AISC 360,	
Fit-up of welds including but not limited to joint preparation, dimensions, cleanliness, tacking, and backing type/fit as applicable.	-	QC and QA	Table N5.4-1	
f. Configuration and finish of access holes	-	QC and QA		
g. Check welding equipment.	-	QC	1	

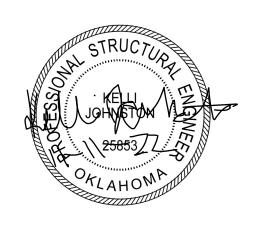




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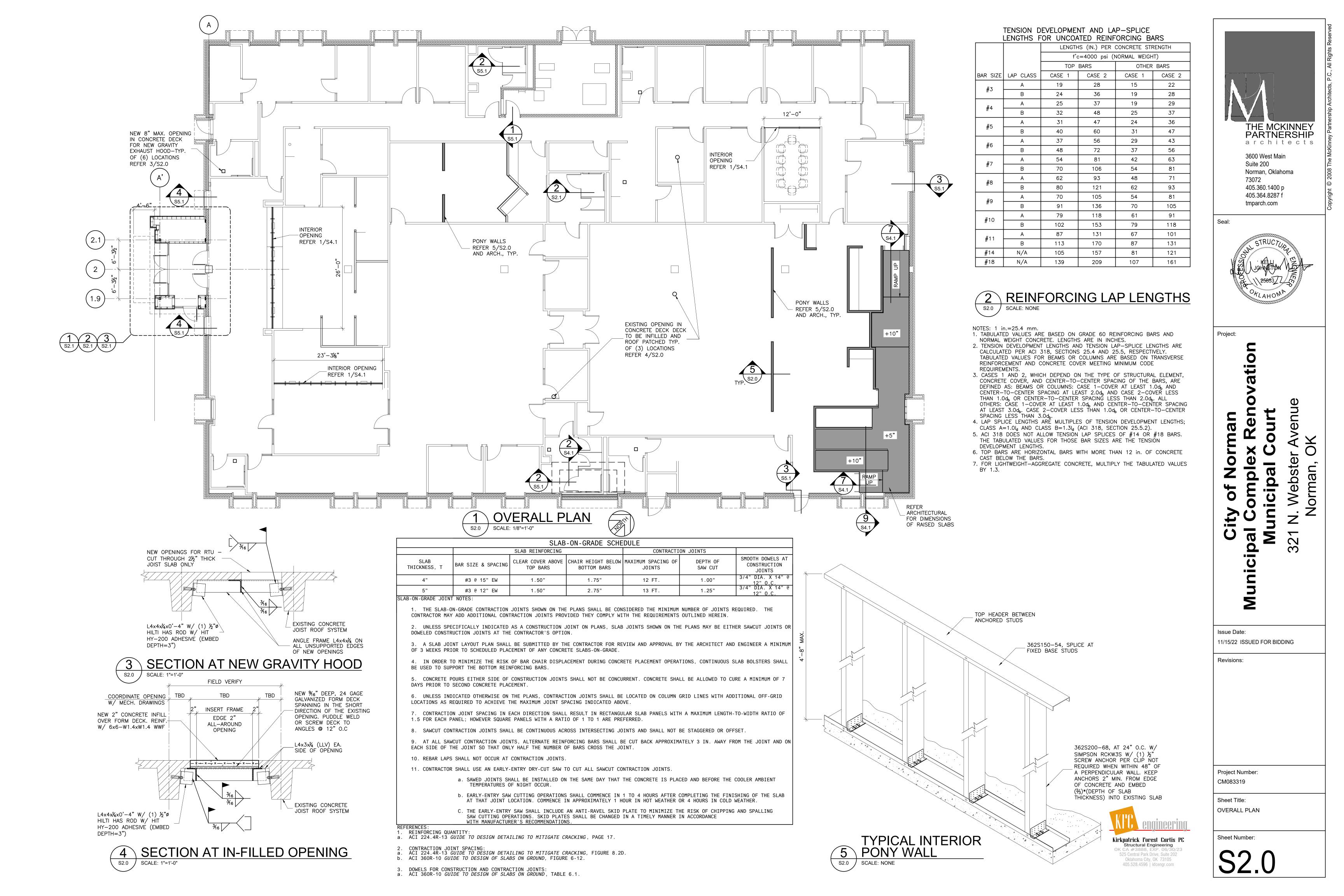
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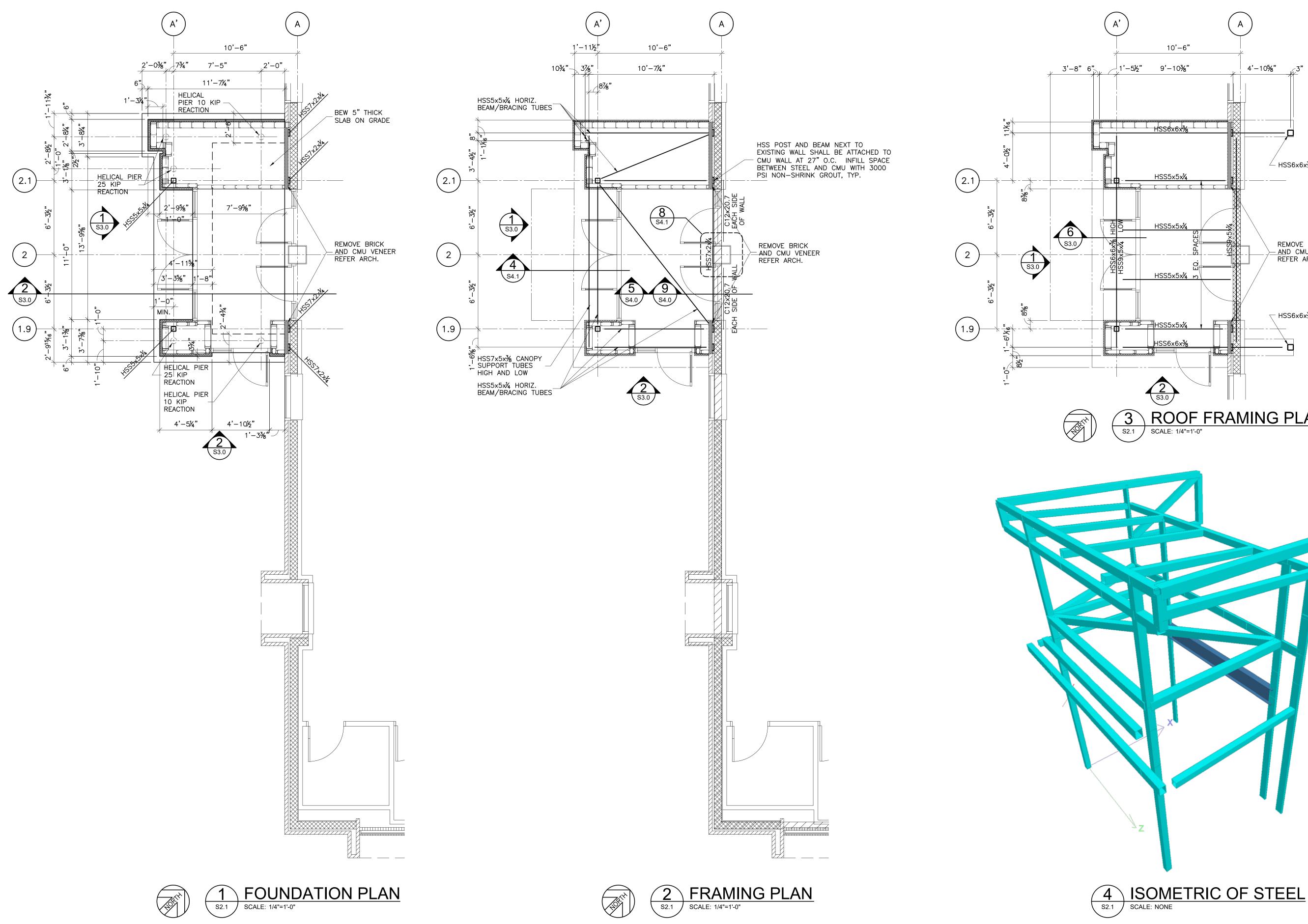
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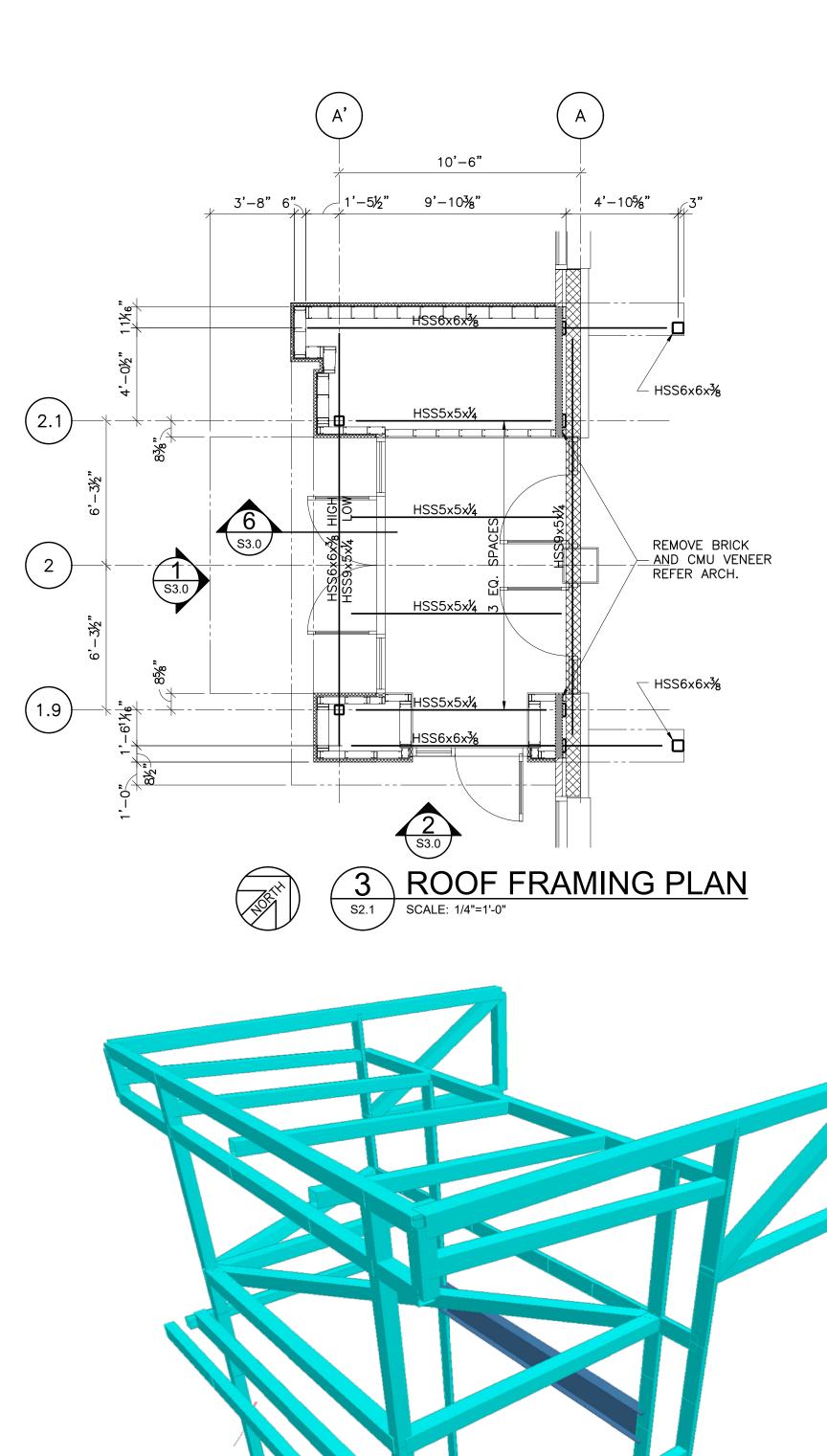
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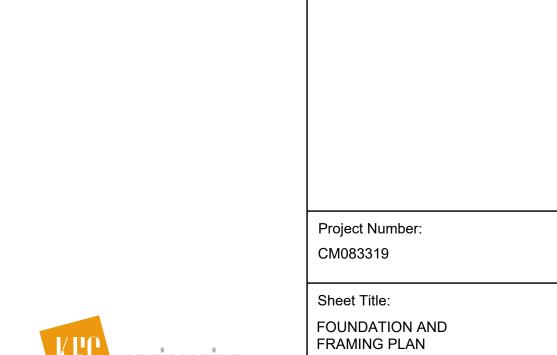
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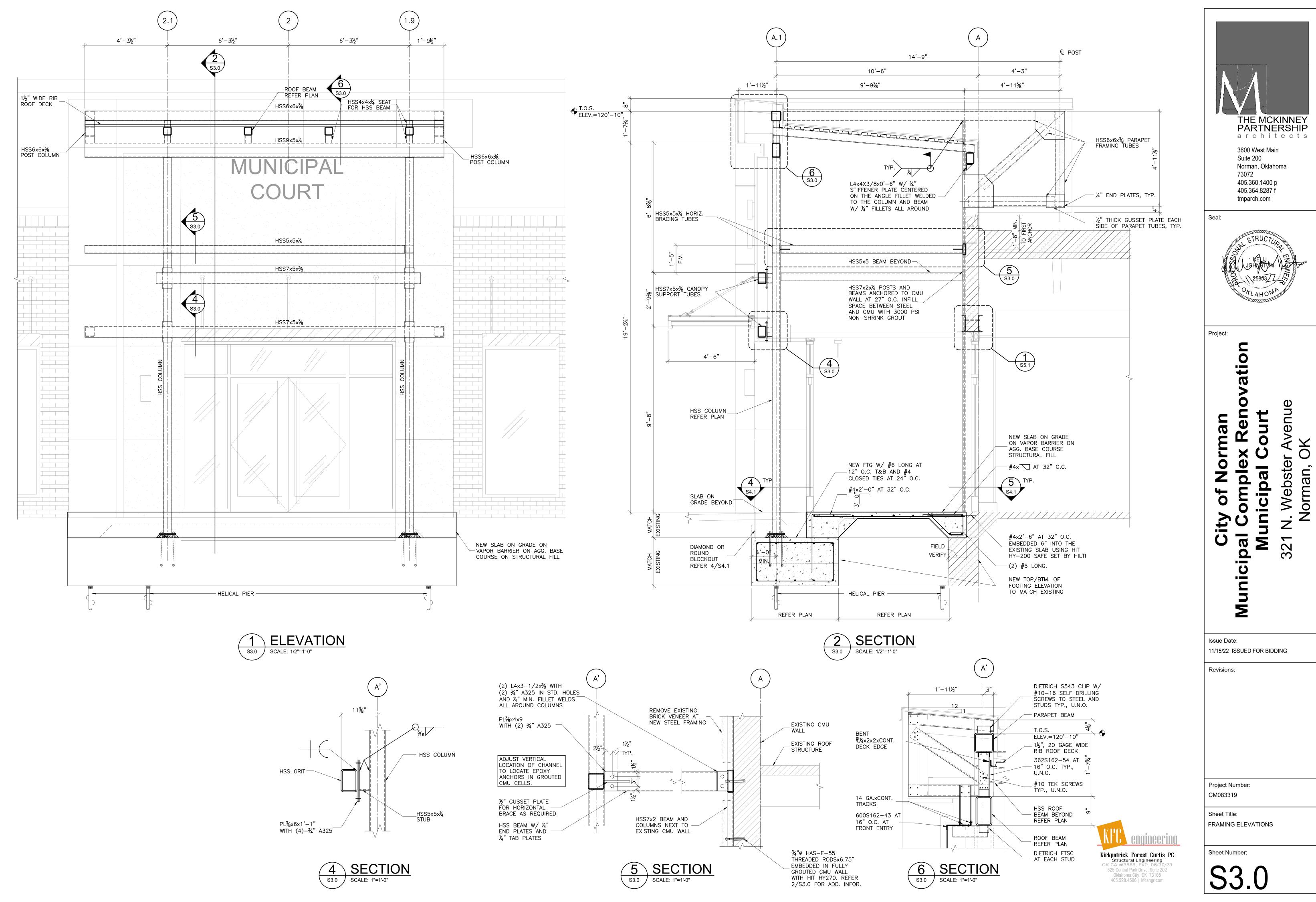
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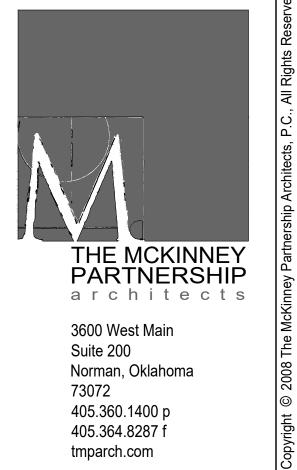
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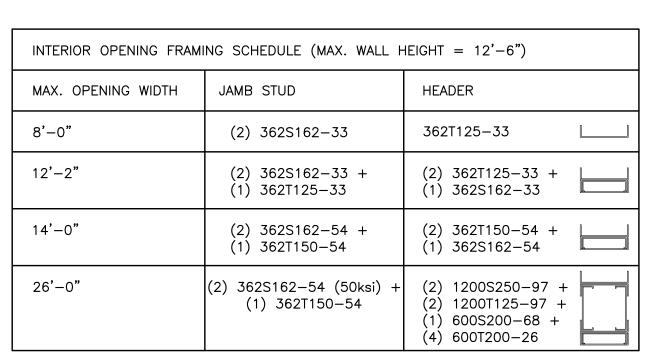
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Sheet Number:

Kirkpatrick Forest Curtis PC Structural Engineering OK CA #3888, EXP. 06/30/23 525 Central Park Drive, Suite 202 Oklahoma City, OK 73105 405.528.4596 | kfcengr.com







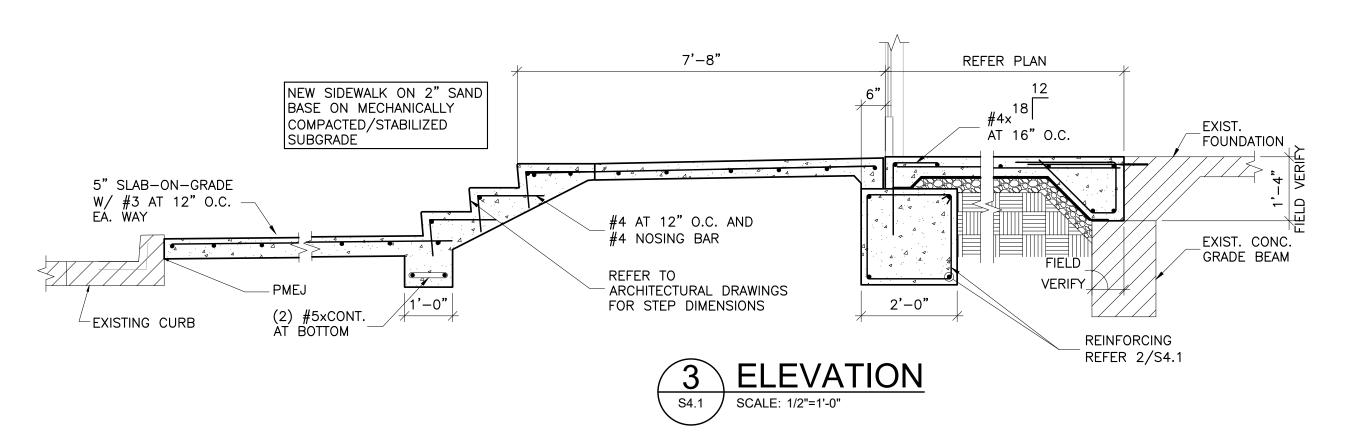
INTERIOR OPENING SCHEDULE

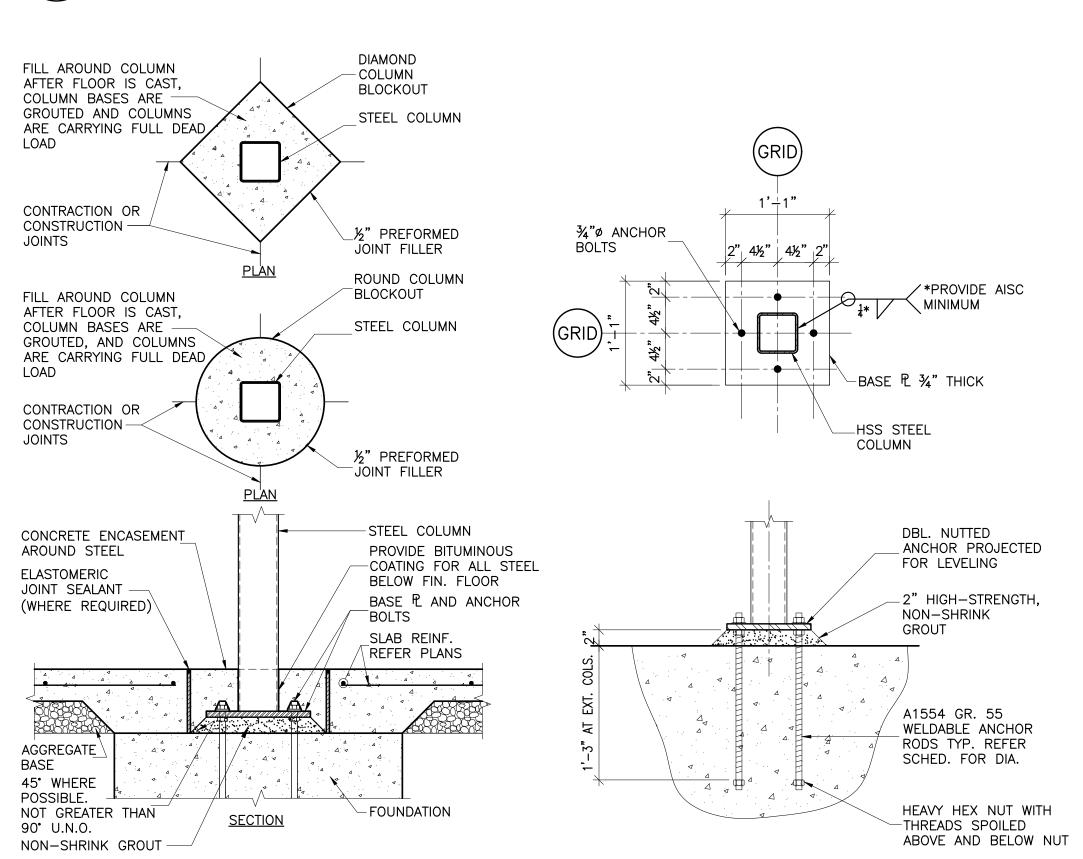
WHERE OPENING WIDTH EXCEEDS 14'-0", PROVIDE JAMB AND HEADER FOR 8'-0" WIDE OPENING, AND PROVIDE 362S162-33 KICKERS UP TO STRUCTURE AT 48" O.C. ALONG HEADER

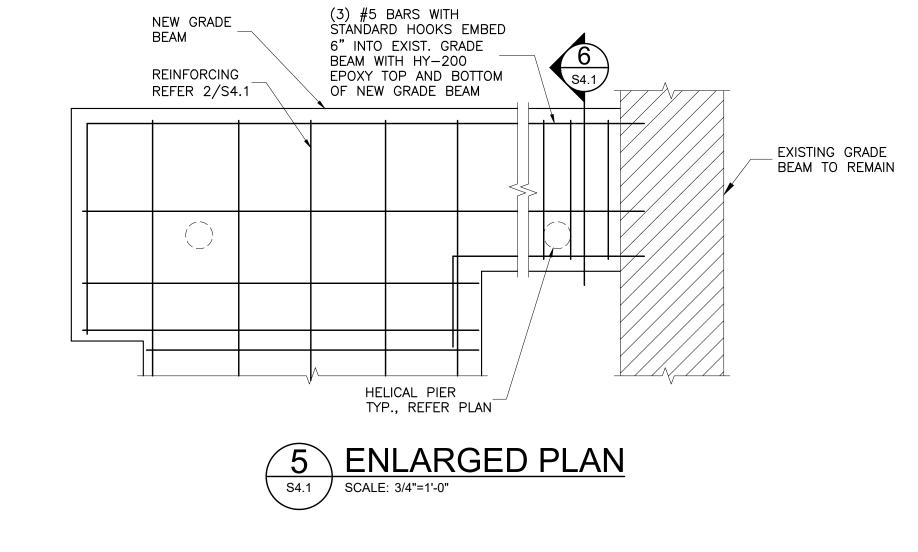
SCALE: NONE

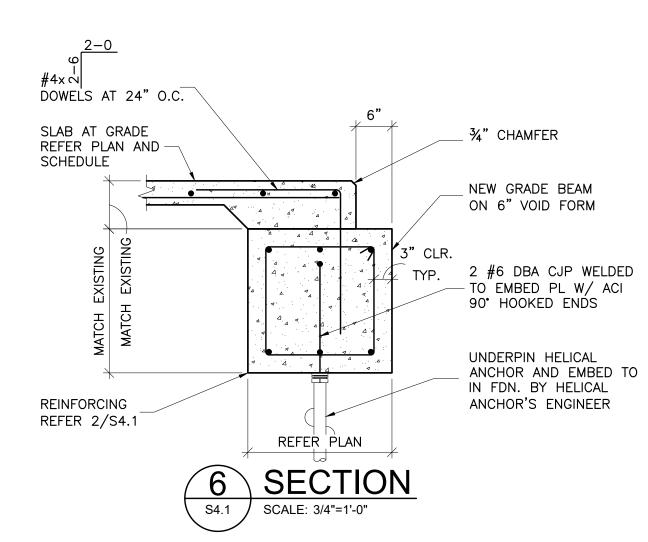
#4x2-0 AT 32" O.C. 5" SLAB ON GRADE REFER SLAB ON GRADE SCHEDULE #3x1'-9" EMBEDDED EXIST. 3½" IN HIT-HY200 -FOUNDATION SAFE SET BY HILTI EXIST. CONC. GRADE BEAM -15 MIL. VAPOR RETARDER 4" WELL GRADED AGGREGATE BASE COURSE STRUCTURAL FILL MATERIAL 12" WIDE GRADE BEAM W/ #6 BARS TOP AND REFER BOTTOM AT 12" O.C. AND #4 CLOSED TIES AT -24" O.C. REFER 5/S4.1 FOR ATTACHMENT TO PLAN EXISTING FND BEYOND TOP AND BOTTOM OF GRADE BEAM TO MATCH EXISTING SECTION

SCALE: 3/4"=1'-0"

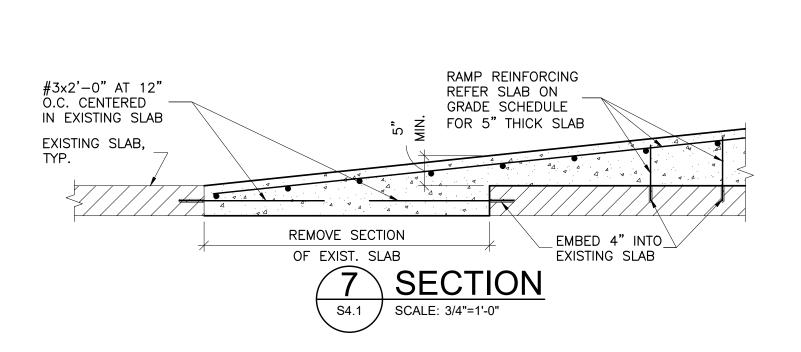


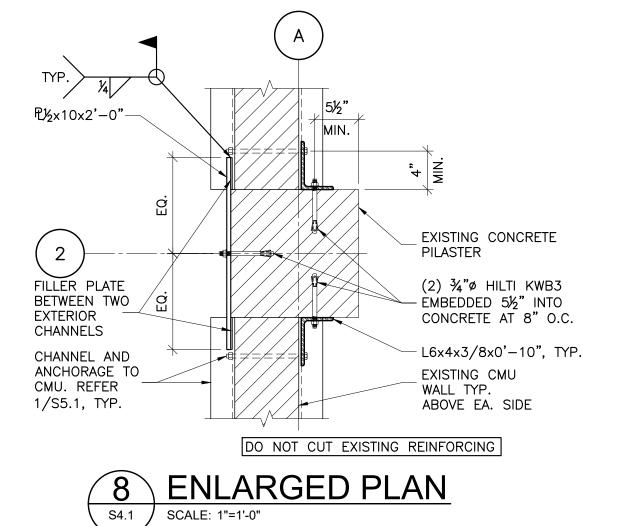


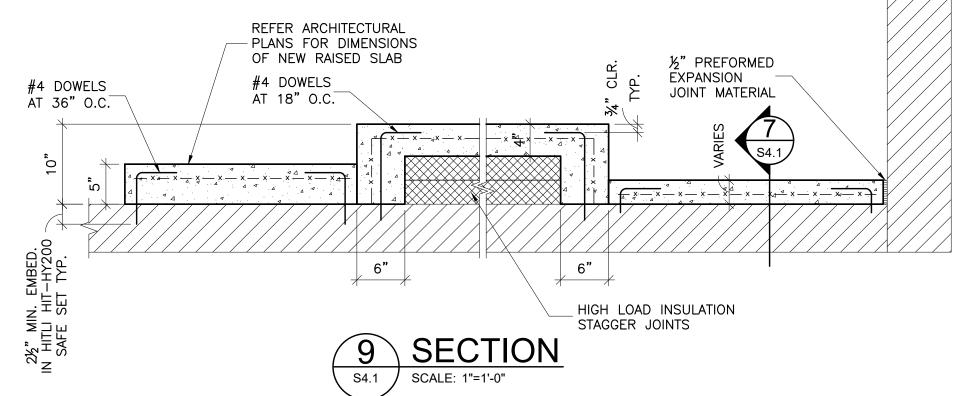




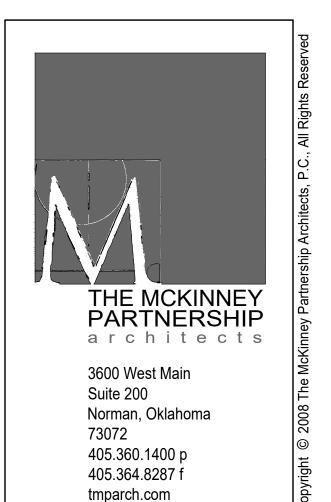




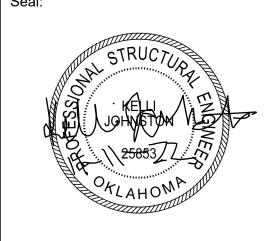








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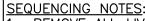
Project Number:

Sheet Title:
FOUNDATION DETAILS

Sheet Number:

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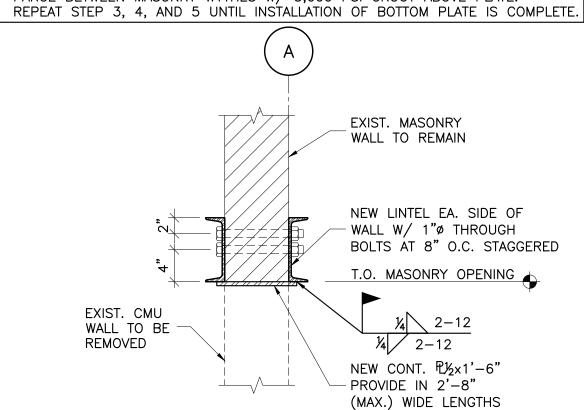
S4.1



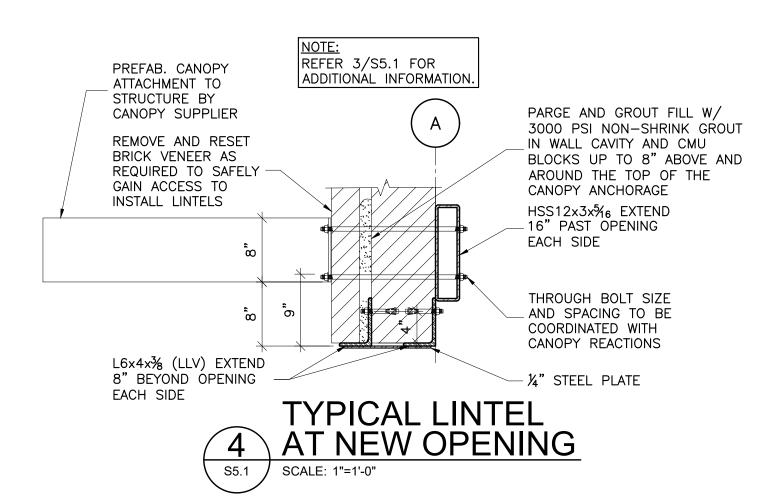
- SEQUENCING NOTES:

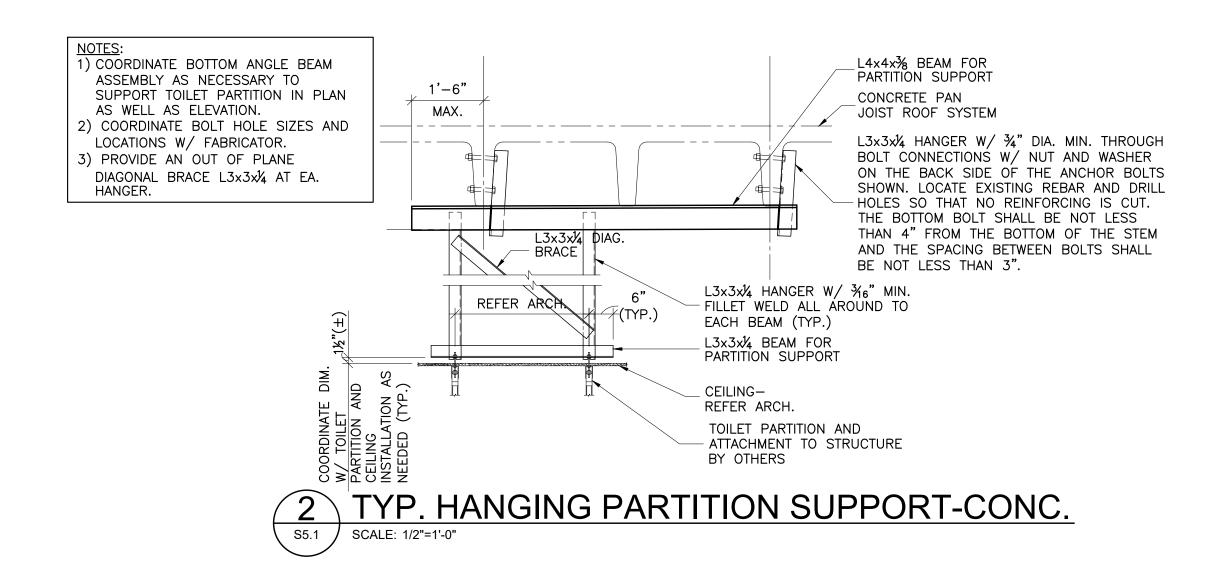
 1. REMOVE ALL LIVE LOAD FROM WALL DURING STEEL INSTALLATION AT OPENING.

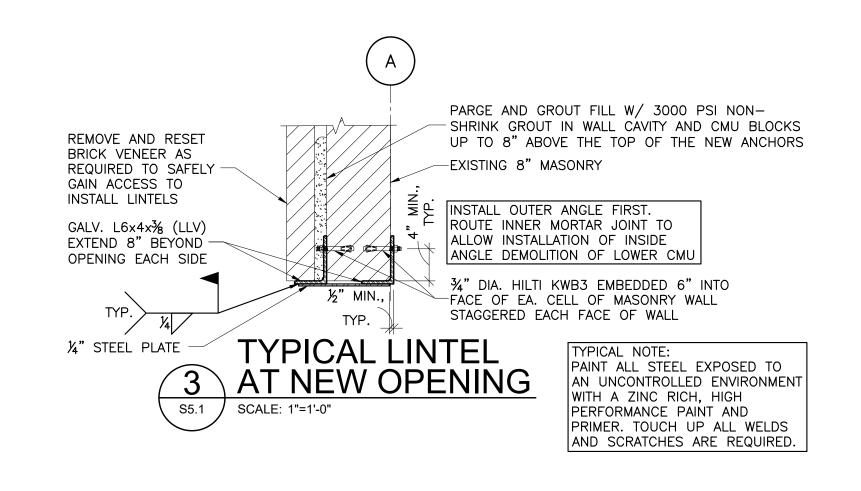
 1. REMOVE ALL LIVE LOAD FROM WALL DURING STEEL INSTALLATION AT OPENING. TO INSTALL CHANNELS THAT EXTEND PAST EACH JAMB OF FUTURE OPENING TO
- NEAREST VERT. REINF. CELL (MIN.=16").
- DEMO WALL BELOW PLATE IN 32" WIDE SECTIONS. (MAX.) INSTALL BOTTOM PLATE AS INDICATED.
- PARGE BETWEEN MASONRY WYTHES W/ 3,000 PSI GROUT ABOVE PLATE.



SECTION TYP. AT NEW OPENING IN EXISTING MASONRY S5.1 SCALE: 1"=1'-0"





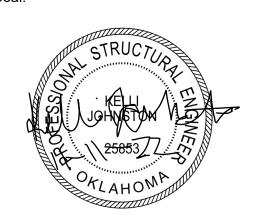




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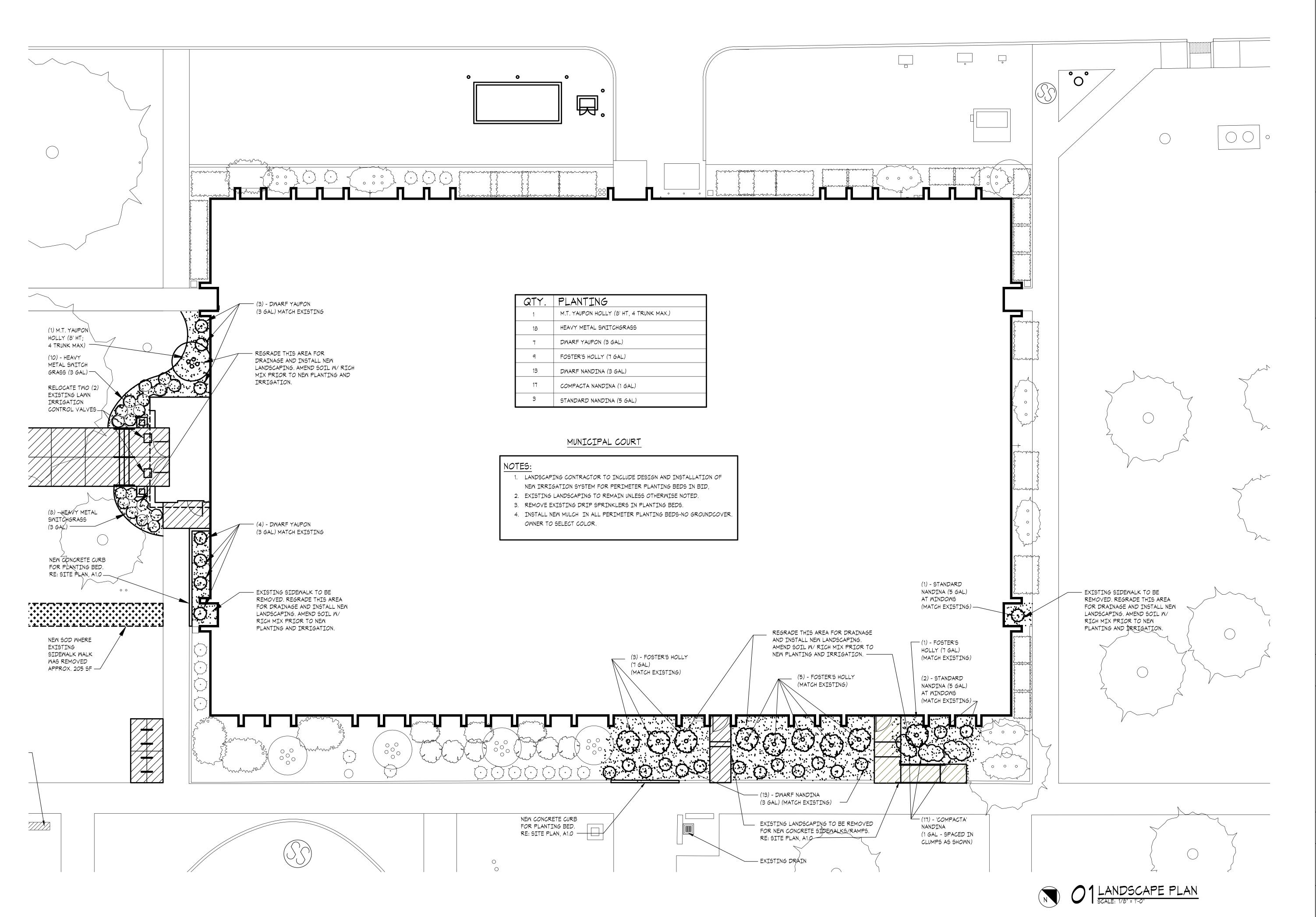
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Sheet Title: FRAMING DETAILS

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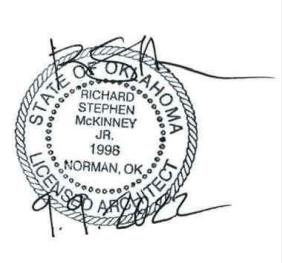






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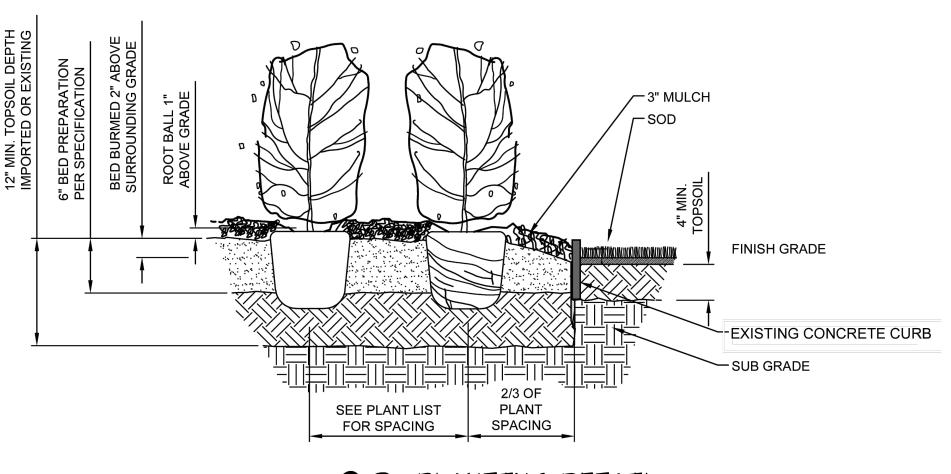
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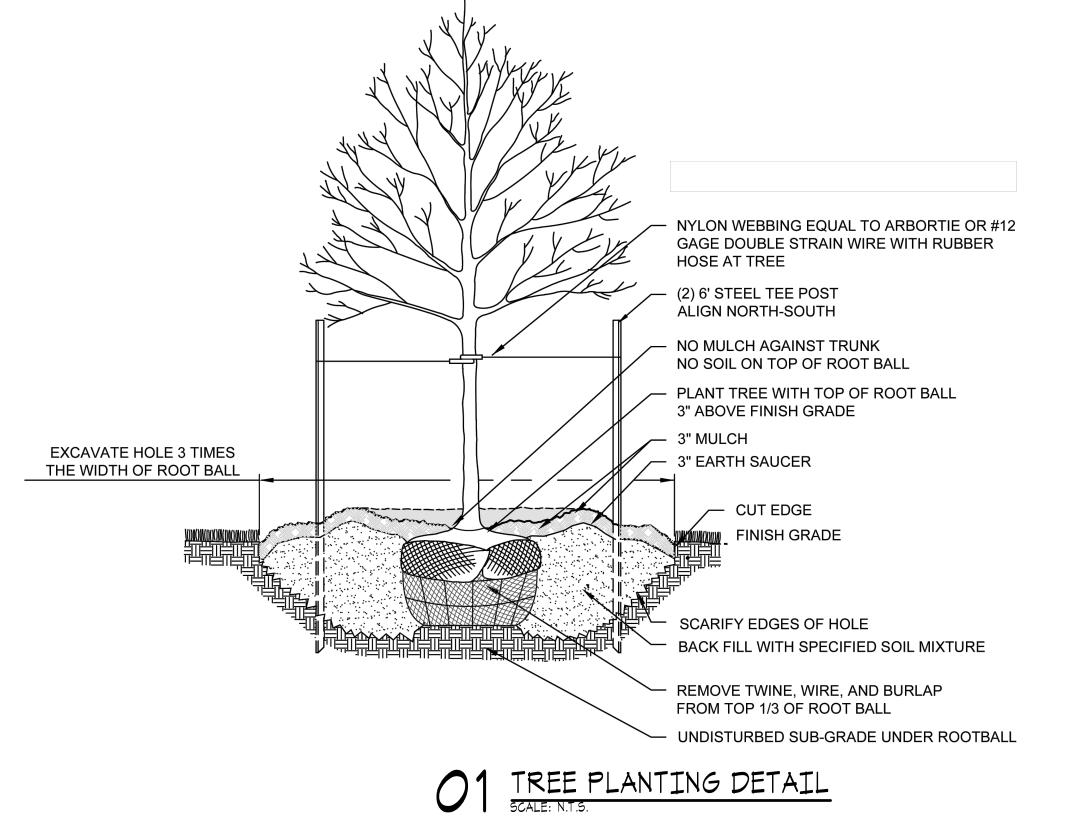
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Sheet Title: LANDSCAPE PLAN



02 PLANTING DETAIL SCALE: N.T.S.

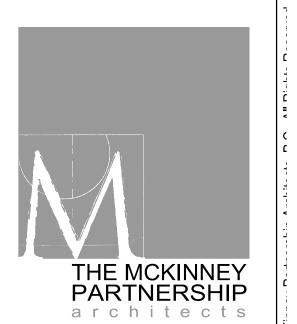


General Notes

- 1. ALL PLANTS SHALL BE GUARANTEED TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE MONTH PERIOD AFTER SUBSTANTIAL COMPLETION. REPLACEMENTS SHALL BE GUARANTEED AN ADDITIONAL TWELVE MONTHS. THE CONTRACTOR SHALL REPLACE ANY PLANTS WHICH ARE DEAD OR ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION. THE COST OF SUCH REPLACEMENTS SHALL BE BORNE BY THE CONTRACTOR.
- 2. CONTRACTOR TO MAINTAIN LANDSCAPING MATERIALS AND SOD FOR A PERIOD OF NOT LESS THAN 30 DAYS AFTER ACCEPTANCE OF PROJECT BY OWNERS REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRIC, CABLE TV, ETC.) PRIOR TO THE START OF ANY WORK.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATING ALL QUANTITIES OF MATERIALS FROM THE PLANTING PLAN. WHEN DISCREPANCIES OCCUR BETWEEN THE PLAN AND THE MATERIALS LIST, THE PLANTING PLAN SUPERSEDES THE MATERIALS LIST IN ALL CASES.

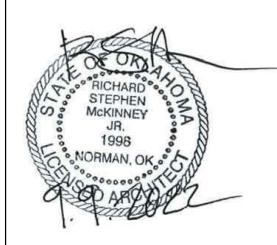
Planting Notes

- ALL PLANT MATERIALS TO BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 - CURRENT EDITION.
- 2. PLANTING SHALL BE LOCATED WHERE IT IS SHOWN ON THE PLAN EXCEPT WHERE OVERHEAD OR BELOW GROUND OBSTRUCTIONS ARE ENCOUNTERED. SHOULD OBSTRUCTIONS BE FOUND, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT WHO WILL RELOCATE THE PLANT MATERIAL.
- 3. ALL PLANTING BEDS SHALL BE PREPARED IN THE FOLLOWING MANNER: REMOVE ALL WEEDS AND GRASSES FROM PLANTING BEDS PRIOR TO BEGINNING SOIL PREPARATION. IF BERMUDA GRASS IS PRESENT IT SHALL BE ERADICATED BY APPROVED MEANS. SPREAD 2" OF COMPOST (BACK TO EARTH SOIL CONDITIONER), 1" OF PINE BARK MULCH, AND OSMOCOTE FERTILIZER (1 LB. PER 100 SQ. FT.) INCORPORATE TO A DEPTH OF 6".
- 4. ALL PLANTING BEDS AND TREE WELLS SHALL RECEIVE A MINIMUM OF 3" OF CEDAR MULCH. COLOR BY OW
- 5. ALL TREES SHALL BE PLANTED 2" ABOVE FINISH GRADE.
- 6. TWINE AND BURLAP SHALL BE CUT AND REMOVED FROM THE UPPER 1/3 OF THE ROOT BALL ON ALL TREES AND SHRUBS.
- 7. FINISH GRADES OF ALL PLANTING BEDS SHALL PROVIDE POSITIVE DRAINAGE OUT OF PLANTED AREA.
- 8. AREAS WITHIN THE PROPERTY LINES, THE R.O.W. PARALLEL TO THE PROPERTY LINES, AND ALL OTHER LAWN AREAS DISTURBED BY THE CONSTRUCTION PROCESS THAT ARE NOT DESIGNATED TO RECEIVE OTHER PLANTING, PAVING OR BUILDINGS ARE TO BE SODDED WITH SOLID SOD BERMUDA GRASS.
- 9. ALL AREAS RECEIVING SOD SHALL RECEIVE A MINIMUM 4" OF TOPSOIL. SOD SHALL BE STRONGLY ROOTED, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES, AND SHALL BE NOT LESS THAN 2 YEARS OLD. APPLY A 10-20-10 FERTILIZER AT A RATE OF TEN(10) POUNDS PER 1,000 SQUARE FEET TO ALL LAWN AREAS PRIOR TO SODDING.
- 10. NOT USED
- 11. BACK FILL ALL TREE PITS WITH A SOIL MIXTURE CONSISTING OF 1 PART TOP SOIL AND 1 PART COMPOST AND 1/2 POUND OSMOCOTE FERTILIZER PER TREE.
- 12. ALL PLANTS SHALL BE TRUE OF SPECIES AND VARIETY AND SHALL CONFORM TO MEASUREMENTS (CALIPER, SIZE, AND TRUNK HEIGHT) AS SPECIFIED ON THE DRAWING.
- 13. SIX WEEKS AFTER THE INSTALLATION OF SOD, A GRANULAR APPLICATION OF BARRICADE PRE-EMERGENT WEED CONTROL SHALL BE APPLIED AT A RATE OF 10 POUNDS PER 1,000 S.F. AND THEREAFTER, ANNUAL APPLICATIONS SHALL BE APPLIED DURING THE SECOND WEEK OF FEBRUARY.
- 14. SIX WEEKS AFTER THE INSTALLATION OF THE LANDSCAPE MATERIALS, THE FIRST OF TWO ANNUAL LIQUID APPLICATIONS OF PENDULUM PRE-EMERGENT WEED CONTROL SHALL BE APPLIED TO THE MULCH SURFACE IN ALL SHRUB AND GROUND COVER AREAS.
- 15. STAKING AND GUYING TO BE REMOVED BY THE LANDSCAPE CONTRACTOR NINE MONTHS AFTER PLANTING.



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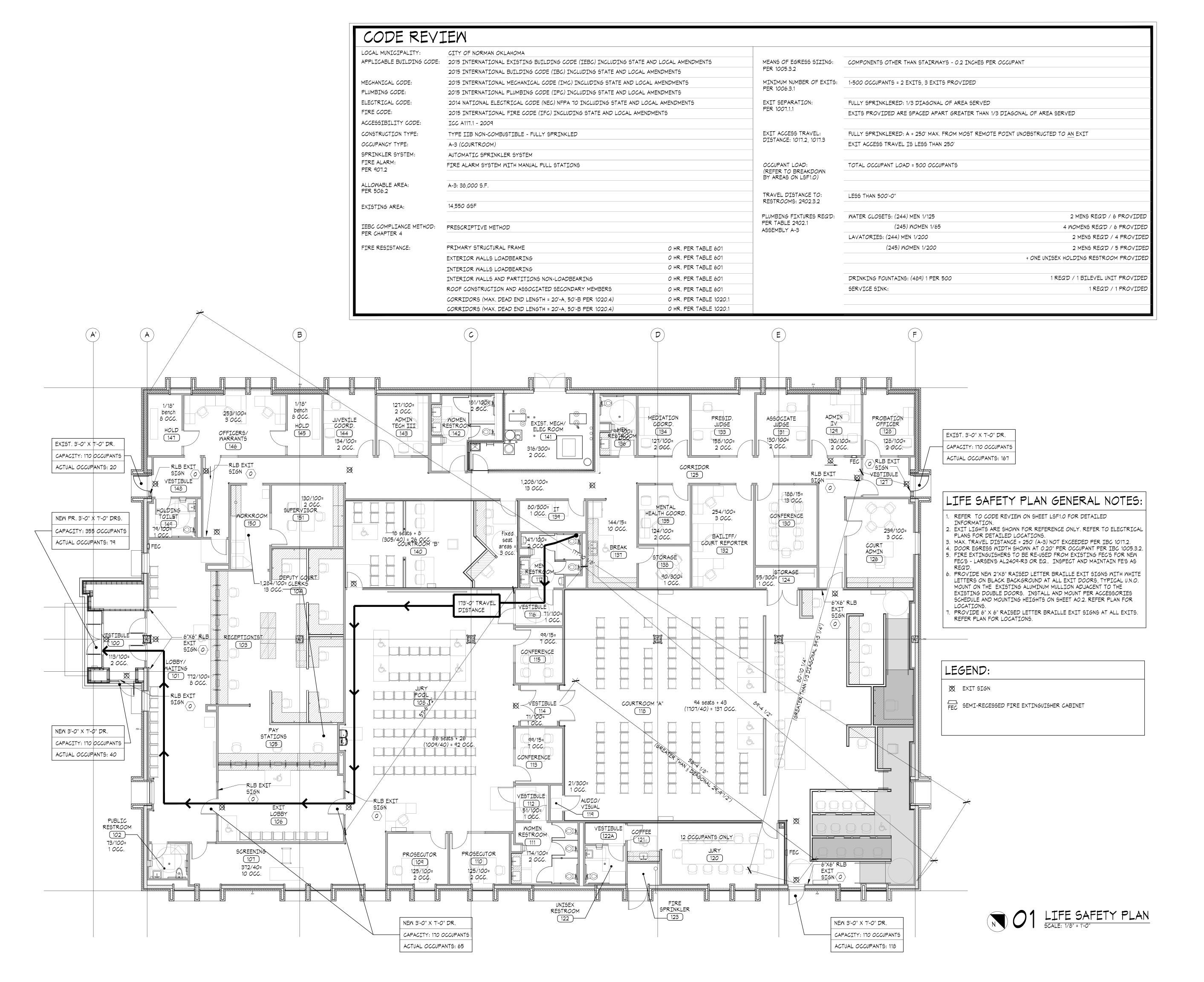
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LANDSCAPE DETAILS

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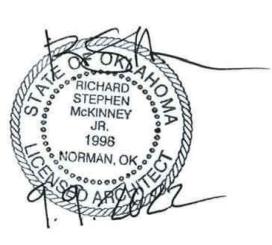
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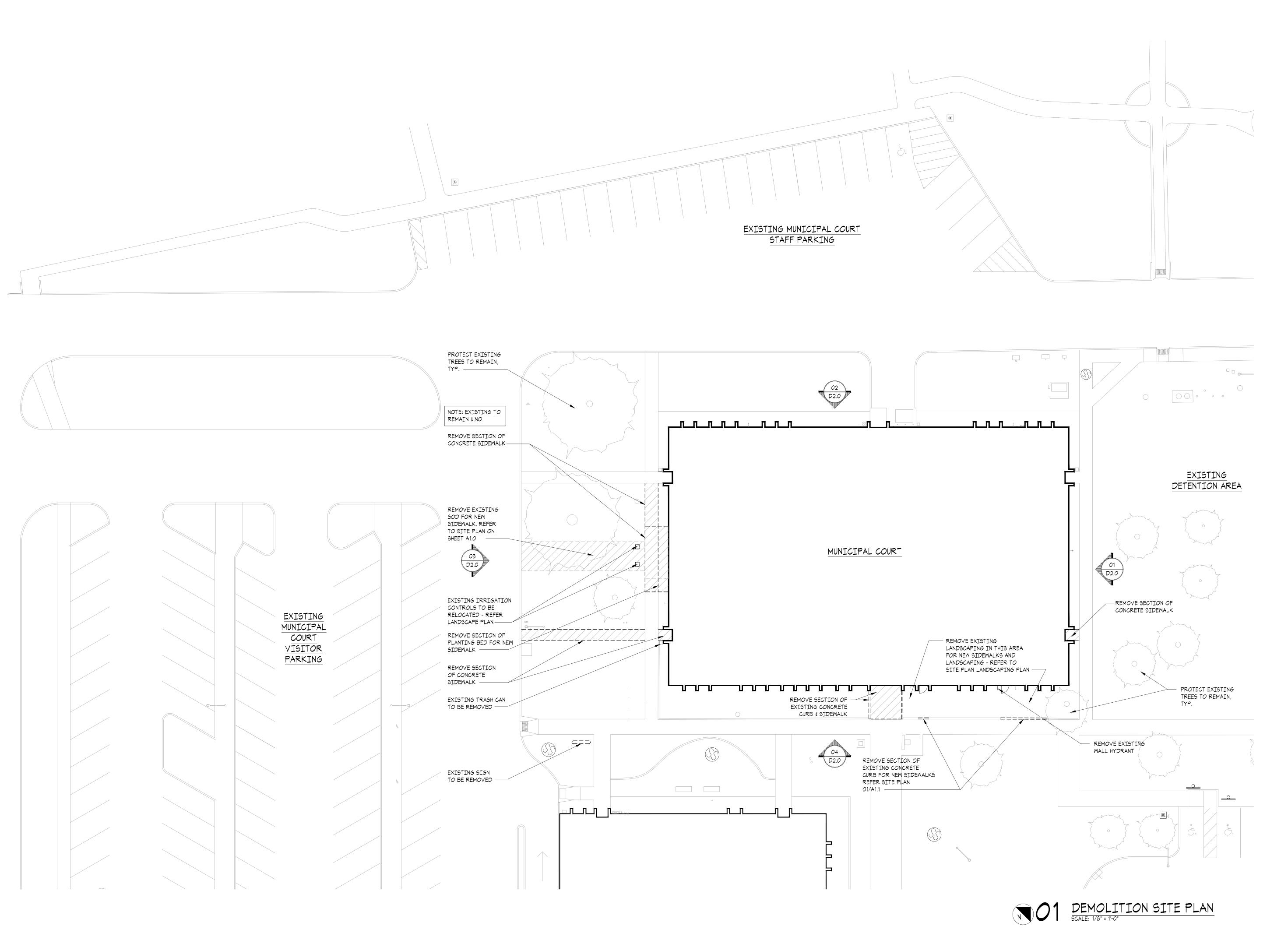
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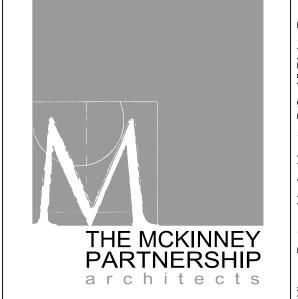
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LIFE SAFETY PLAN
CODE REVIEW

Sheet Number:

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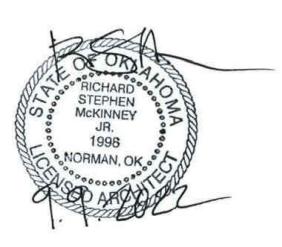




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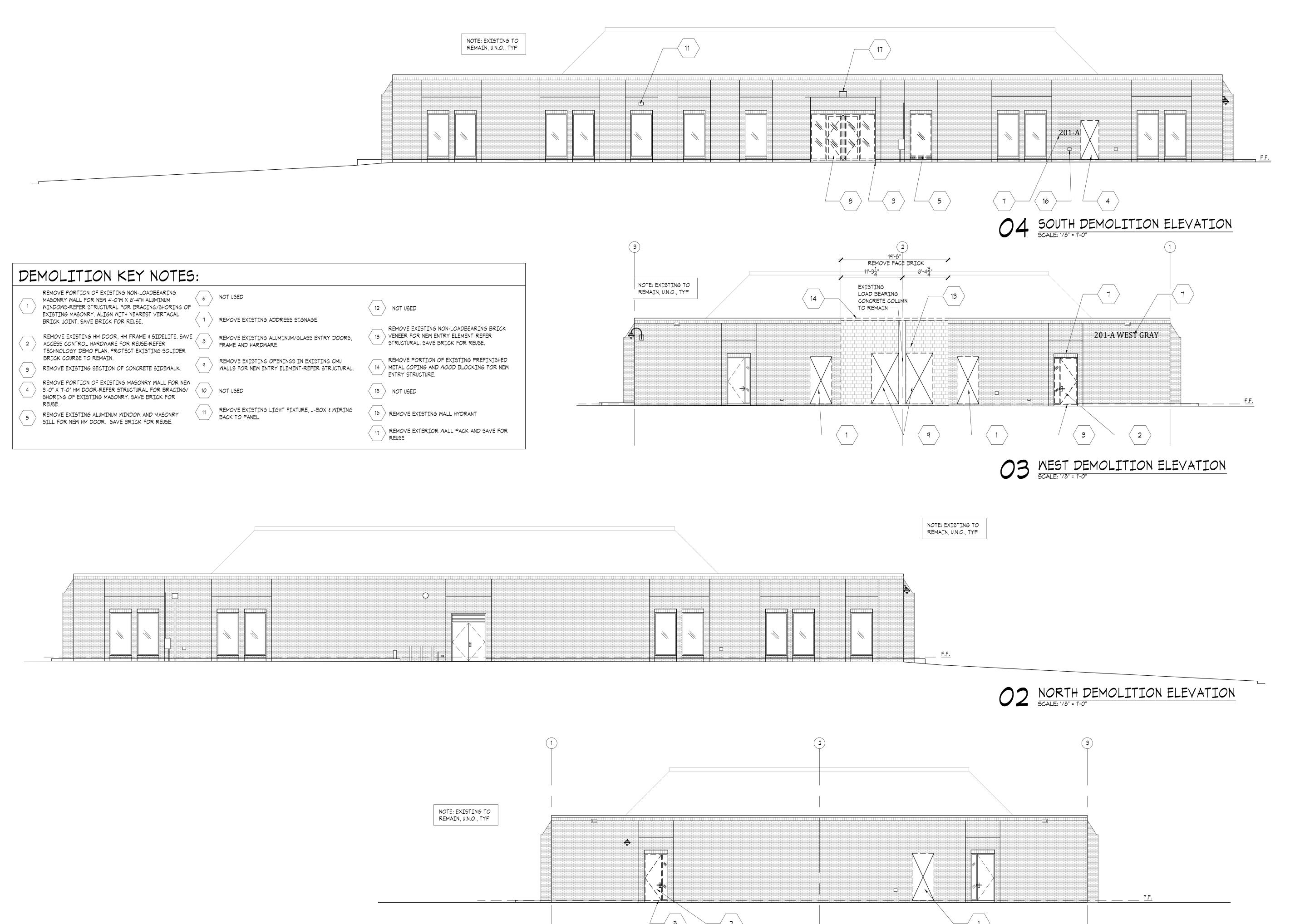
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Sheet Title:
DEMOLITION SITE PLAN

Sheet Number:

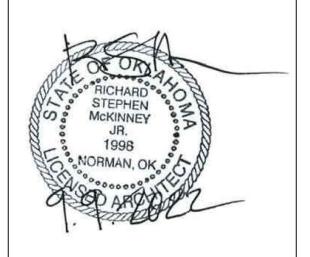
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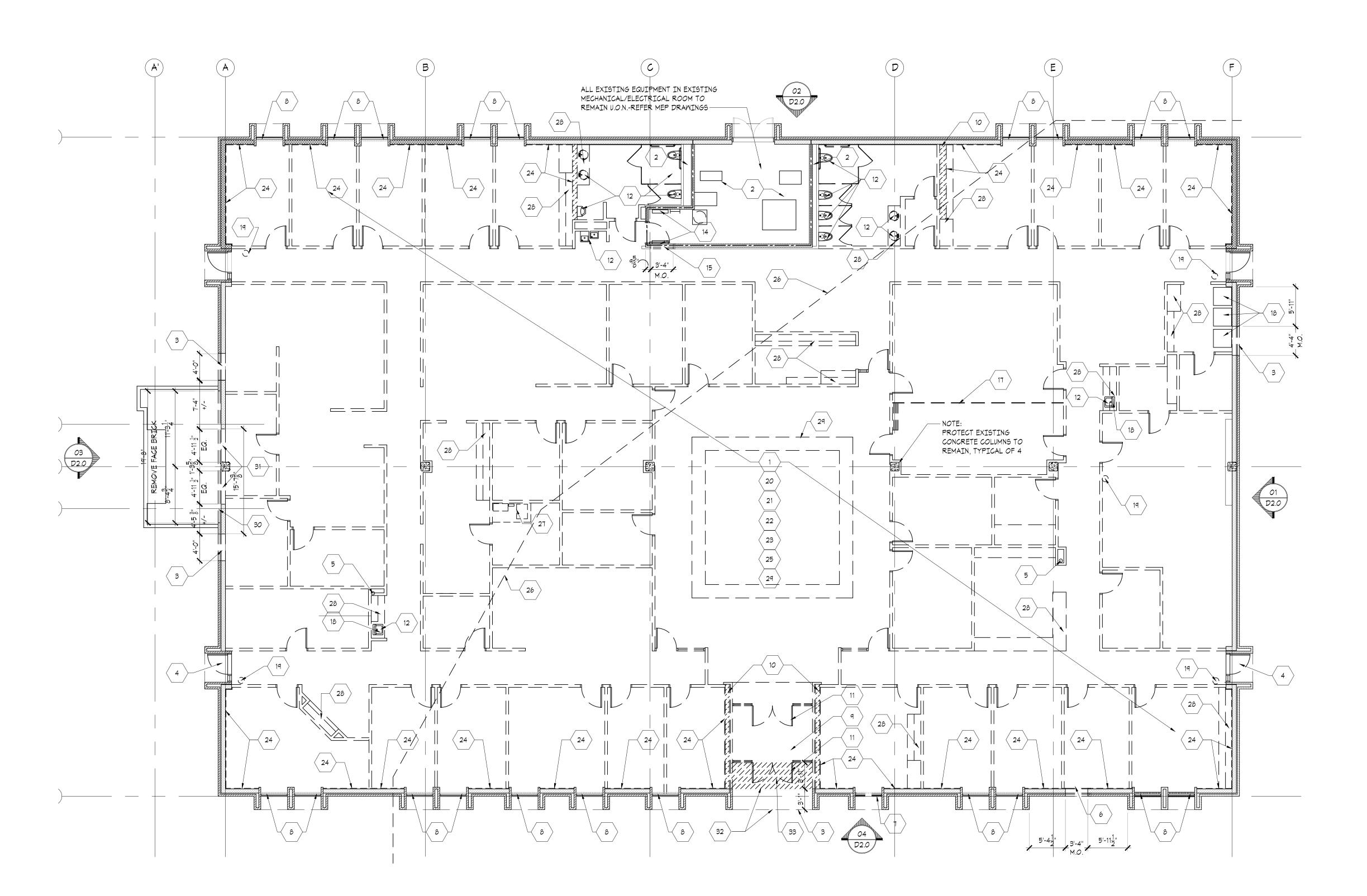
DEMOLITION ELEVATIONS

Sheet Number:

EAST DEMOLITION ELEVATION

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

D2.0





DEMOLITION KEY NOTES:

- REMOVE ALL INTERIOR EXISTING PARTITIONS, FLOORING, CEILINGS, INTERIOR DOORS, INTERIOR FRAMES, MILLWORK, WINDOW BLINDS, U.O.N.
- 2 EXISTING MECH. ROOM & PLUMBING CHASES TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE PORTION OF EXISTING NON-LOADBEARING FACE
 BRICK AND CMU WALL FOR NEW ALUMINUM WINDOW-REFER
 STRUCTURAL.

 REMOVE EXISTING HM DOOR HM FRAME & STDELIGHT SAVE
- REMOVE EXISTING HM DOOR, HM FRAME & SIDELIGHT. SAVE ACCESS CONTROL HARDWARE FOR REUSE-REFER TECHNOLOGY PLANS.
- RELOCATE EXISTING 6" DIA. ROOF DRAIN. RISER TO REMAIN.
- REMOVE EXISTING MASONRY WALL FOR NEW 3'-6" X 7'-0" HM DOOR-REFER STRUCTURAL.
- REMOVE EXISTING ALUMINUM WINDOW, ALUM. BLIND, AND MASONRY SILL FOR NEW HM DOOR.
- 8 REMOVED EXISTING ALUM. MINI BLINDS AND MOUNTING BRACKETS.
- REMOVE EXISTING ENTRY VESTIBULE AND BRICK PAVERS.
- REMOVE, ASSUMED, NON-LOAD BEARING EXISTING MASONRY WALLS-REFER STRUCTURAL.
- 11 REMOVE EXISTING ALUM/GLASS ENTRY DOORS.
- 12 REMOVE EXISTING PLUMBING FIXTURE-REFER PLUMBING.
- REMOVE EXISTING EXTERIOR WALL PACK AND SAVE FOR REUSE.
- REMOVE EXISTING ABANDONED PHONE
 EQUIPMENT-REQUIRES PRECON MEETING WITH CITY IT
- STAFF PRIOR TO DEMO OF ANY EQUIPMENT.

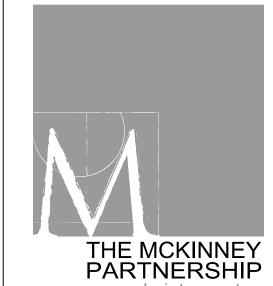
 REMOVE PORTION OF EXISTING CMU WALL FOR NEW
- 15 3'-0" X 7'-0" HM DOOR-REFER STRUCTURAL FOR BRACING / SHORING.
- 16 NOT USED
- REMOVE EXISTING FOLDING PARTITION & STRUCTURE ABOVE CEILING.
- REMOVE EXISTING BREAKROOM ICE, REF AND VENDING AND RETURN TO OWNER.
- REMOVE EXISTING FIRE EXTINGUISHER AND RETURN TO OWNER.
- REMOVE ALL EXISTING INTERIOR POWER & DATA OUTLETS.
 CONDUIT AND WIRING BACK TO EXISTING PANEL. REFER:
 ELECTRICAL.
- REMOVE ALL EXISTING INTERIOR LIGHT FIXTURES, CONDUIT AND WIRING BACK TO EXISTING PANEL. REFER: ELECTRICAL
- REMOVE ALL EXISTING METAL SHELVING, FURNITURE, EQUIP., ETC. ABANDONED BY OWNER.
- REMOVE ALL EXISTING INTERIOR DUCTWORK, THERMOSTATS. REFER: MECHANICAL
- REMOVE EXISTING 1" THICK INTERIOR WOOD PANELING APPLIED DIRECTLY TO CMU.
- REMOVE ALL EXISTING INTERIOR BATT INSULATION ABOVE THE ACOUSTICAL CEILING TILE THROUGHOUT.
- APPROX. LOCATION OF EXISTING (2) FIBER LINES IN ORANGE SLEEVES ABOVE CEILING TO REMAIN DO NOT CUT OR DEMO REQUIRES PRECON MEETING WITH CITY IT STAFF PRIOR TO DEMO OF ANY EQUIPMENT.
- REMOVE AND SAVE EXISTING FIBEROPTIC/IT EQUIPMENT
 (WIRE CAGE, DOOR ACCESS CONTROL PANEL, VERTICAL
 PLUG STRIP, UPS, FIBER SPLICE, AND WALL MOUNTED RACK)
 AND RETURN TO OWNER-REQUIRES PRECON MEETING WITH
 CITY IT STAFF PRIOR TO DEMO OF ANY EQUIPMENT.
- igg(28 igg
 angle REMOVE EXISTING BUILT-IN MILLWORK.
- 29 REMOVE EXISTING COFFERED CEILING.
- REMOVE EXISTING NON-LOADBEARING FACE
 BRICKVENEER-REFER STRUCTURAL AND DEMOLITION
 ELEVATION SHEET D2.0 FOR EXTENTS.
 REMOVE EXISTING NON-LOADBEARING CMU-REFER
- STRUCTURAL AND DEMOLITION ELEVATION SHEET D2.0 FOR EXTENTS.
- REMOVE EXISTING DOWNLIGHTS IN EXISTING SOFFIT AND WALL MOUNTED LIGHT FIXTURE. EXISTING CEILING MOUNTED CAMERA TO REMAIN.
- REMOVE PARTIAL EXISTING PLASTER SOFFIT.

 APPROXIMATELY 3'-1" TO REMAIN. REFER 02/A6.1.

WALL LEGEND

___ EXISTING CONSTRUCTION TO REMAIN

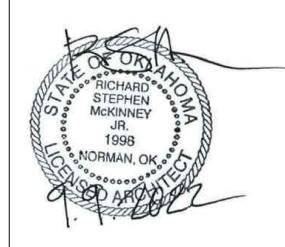
______ ___ EXISTING CONSTRUCTION TO BE DEMOLISHED



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DEMOLITION FLOOR PLAN

Sheet Number:

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GENERAL DEMOLITION NOTES

- THE NEW WORK. ALL EXISTING CONSTRUCTION TO REMAIN U.N.O.
- 2. THE DEMO CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND NOTIFY GENERAL CONTRACTOR OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF
- DURING THE DEMOLITION PHASE THE DEMO CONTRACTOR SHALL SUPPORT ALL EXISTING STRUCTURES AS REQUIRED TO MAINTAIN A SAFE WORKING ENVIRONMENT. ANY DAMAGE CAUSED BY THE DEMOLITION PROCESS WILL BE CORRECTED BY THE DEMO CONTRACTOR AT NO COST TO OWNER.
- 4. IF THE DEMOLITION PROCESS RESULTS IN AN UNSAFE WORKING ENVIRONMENT, STOP WORK IMMEDIATELY AND NOTIFY THE APPROPRIATE AUTHORITY, GENERAL CONTRACTOR AND ARCHITECT PRIOR TO PROCEEDING.
- PROVIDE ALL LIFE SAFETY SYSTEMS INCLUDING, BUT NOT LIMITED TO, TEMPORARY LIGHTING BARRICADES AND GUARD RAILS. AS REQUIRED BY LOCAL, STATE AND FEDERAL JURISDICTIONS.
- DEMO CONTRACTOR SHALL ARRANGE TO IMMEDIATELY REMOVE AND LEGALLY DISPOSE OF ALL DEMOLITION MATERIALS.
- PROCEED WITH DEMOLITION IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- COORDINATE WITH OWNER ON RUBBISH REMOVAL PROCEDURES, LOCATION OF TRASH DUMPSTERS TIME SCHEDULES, ETC. DISPOSE OF ALL RUBBISH IN A MANNER COMPLIANT WITH ALL LAWS, REGULATIONS, ETC.

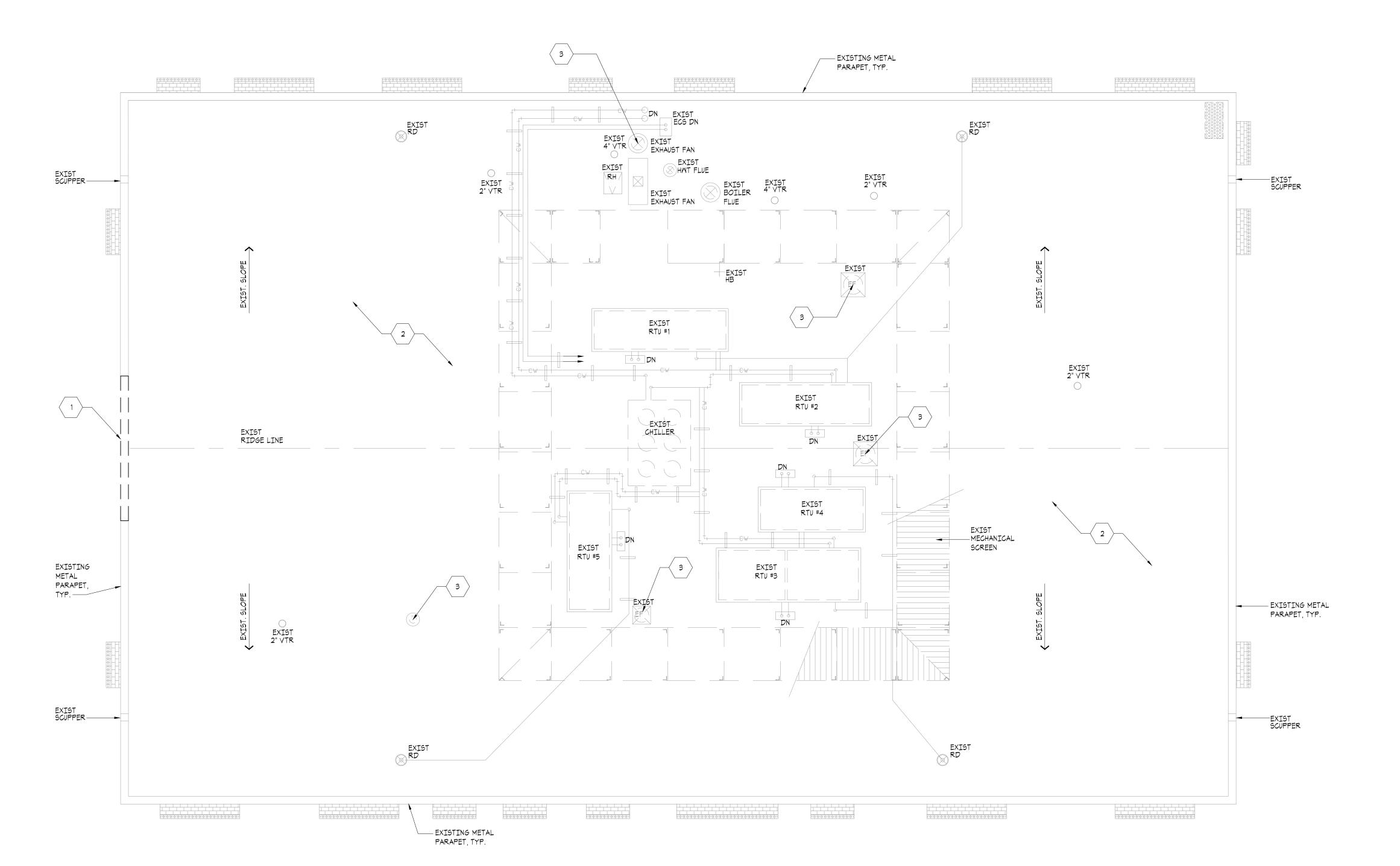
- THE SCOPE OF THE WORK INCLUDES ALL ELEMENTS NECESSARY TO ACCOMMODATE 9. PRIOR TO THE START OF ANY NEW CONSTRUCTION, CLEAN THE SITE OF ALL DEMOLITION DEBRIS. DEMO CONTRACTOR SHALL ASSURE THAT THE DEMOLITION MORK IS COMPLETE TO THE POINT WHERE NO ADDITIONAL DEMOLITION SHALL BE
 - 10. CONSULT WITH GENERAL CONTRACTOR PRIOR TO THE START OF DEMOLITION TO DETERMINE THE SCOPE OF ALL MATERIALS, FINISHES AND SYSTEMS THAT ARE TO
 - 11. ALL UTILITIES TO REMAIN U.N.O.
 - 12. CONTRACTOR MUST UTILIZE REQUIRED ROOFING CONTRACTOR TO MAINTAIN EXISTING WARRANTY.

ROOF DEMOLITION PLAN KEYNOTES:

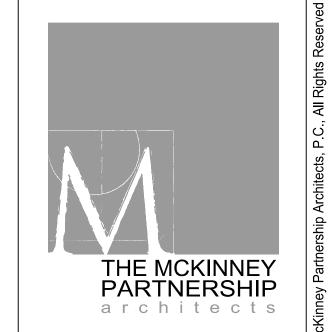
- REMOVE EXISTING SECTION OF METAL COPING AND WOOD BLOCKING FOR NEW ENTRY STRUCTURE-REFER EXTERIOR ELEVATIONS.
- REFER MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION PLANS FOR ANY ROOF EQUIPMENT TO BE REMOVED.
- EXISTING EXHAUST FAN TO BE REMOVED AND ROOF PATCHED-REFER MECHANICAL DEMOLITION PLAN.

EXISTING ROOF: TREMCO 3-PLY COLD PROCESSED SYSTEM WITH FLOOD COAT AND GRAVEL BALLAST

REQUIRED ROOFING CONTRACTOR: MTI TREMCO JAIME CARTER 304-444-6489 JCarter@tremcoinc.com

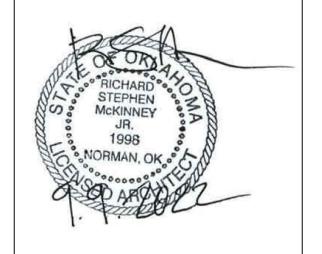






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Revisions:

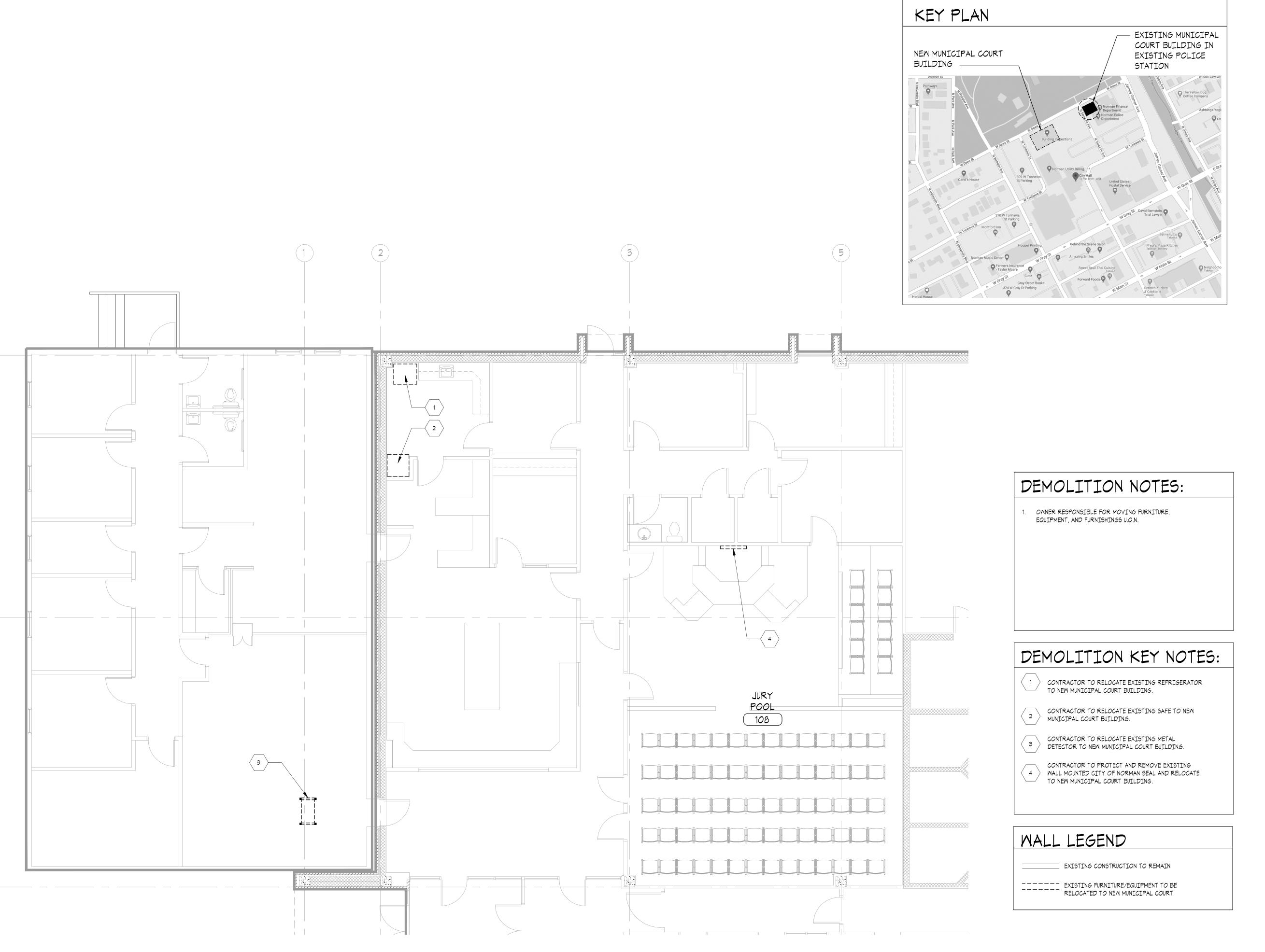
Project Number:

CM083319

Sheet Title: **DEMOLITION ROOF PLAN**

Sheet Number:

D4.0



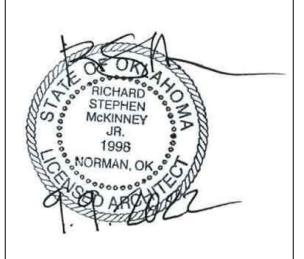
O1 DEMOLITION FLOOR PLAN- EXISTING MUNICIPAL COURT

SCALE: 3/16" = 1'-0"



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11/15/22 ISSUED FOR BIDDING

Revisions:

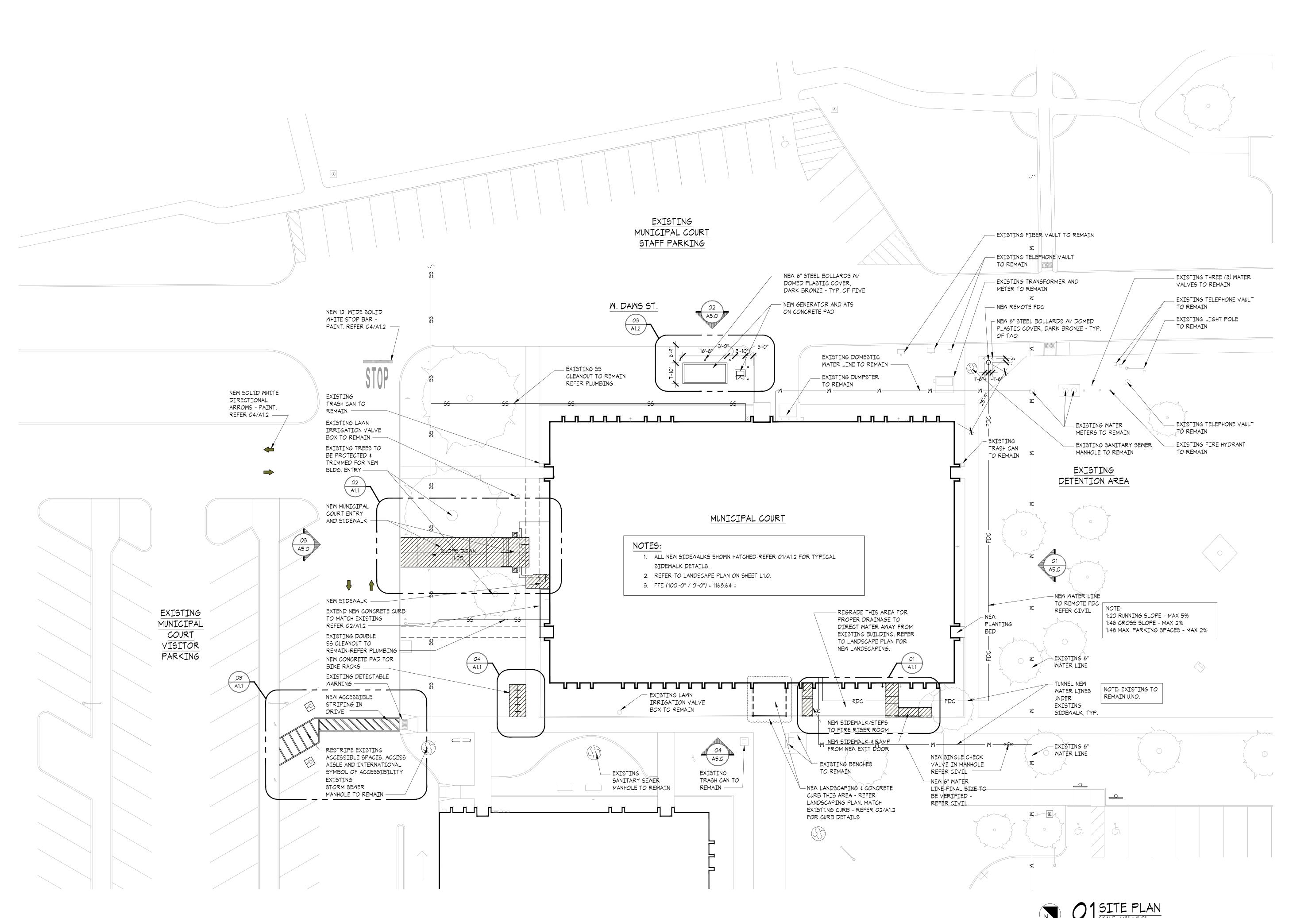
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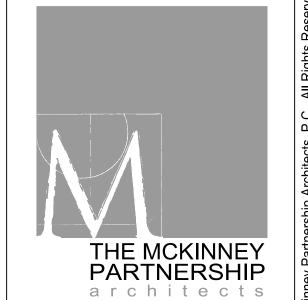
Sheet Title:

DEMOLITION FLOOR PLAN EXISTING MUNICIPAL COURT

Sheet Number:

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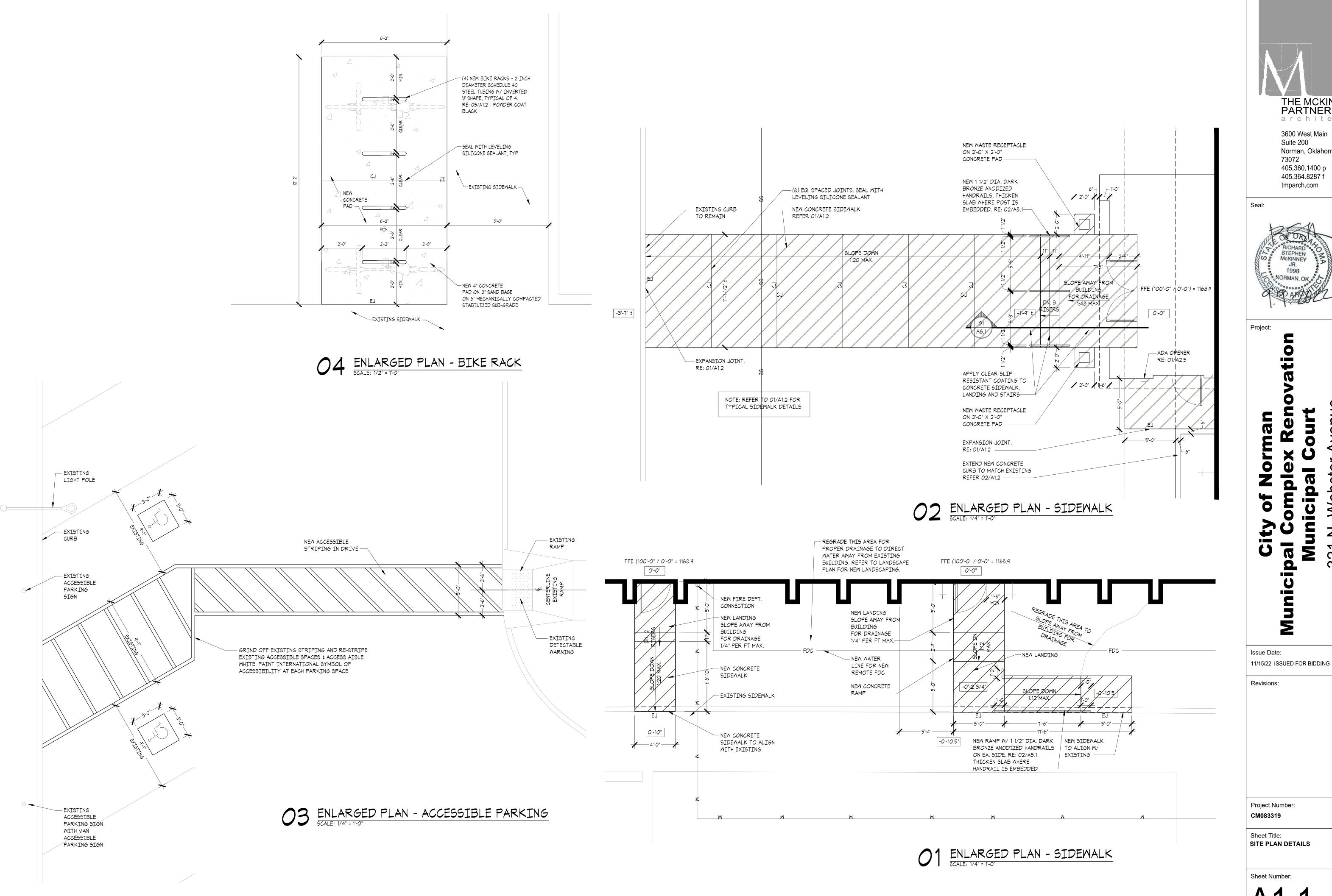
Issue Date: 11/15/22 ISSUED FOR BIDDING

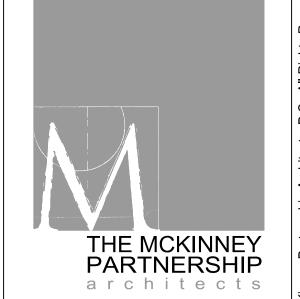
Revisions:

Project Number:

Sheet Title: SITE PLAN

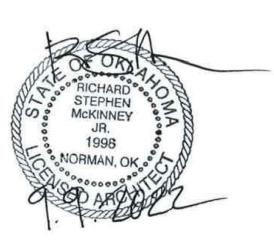
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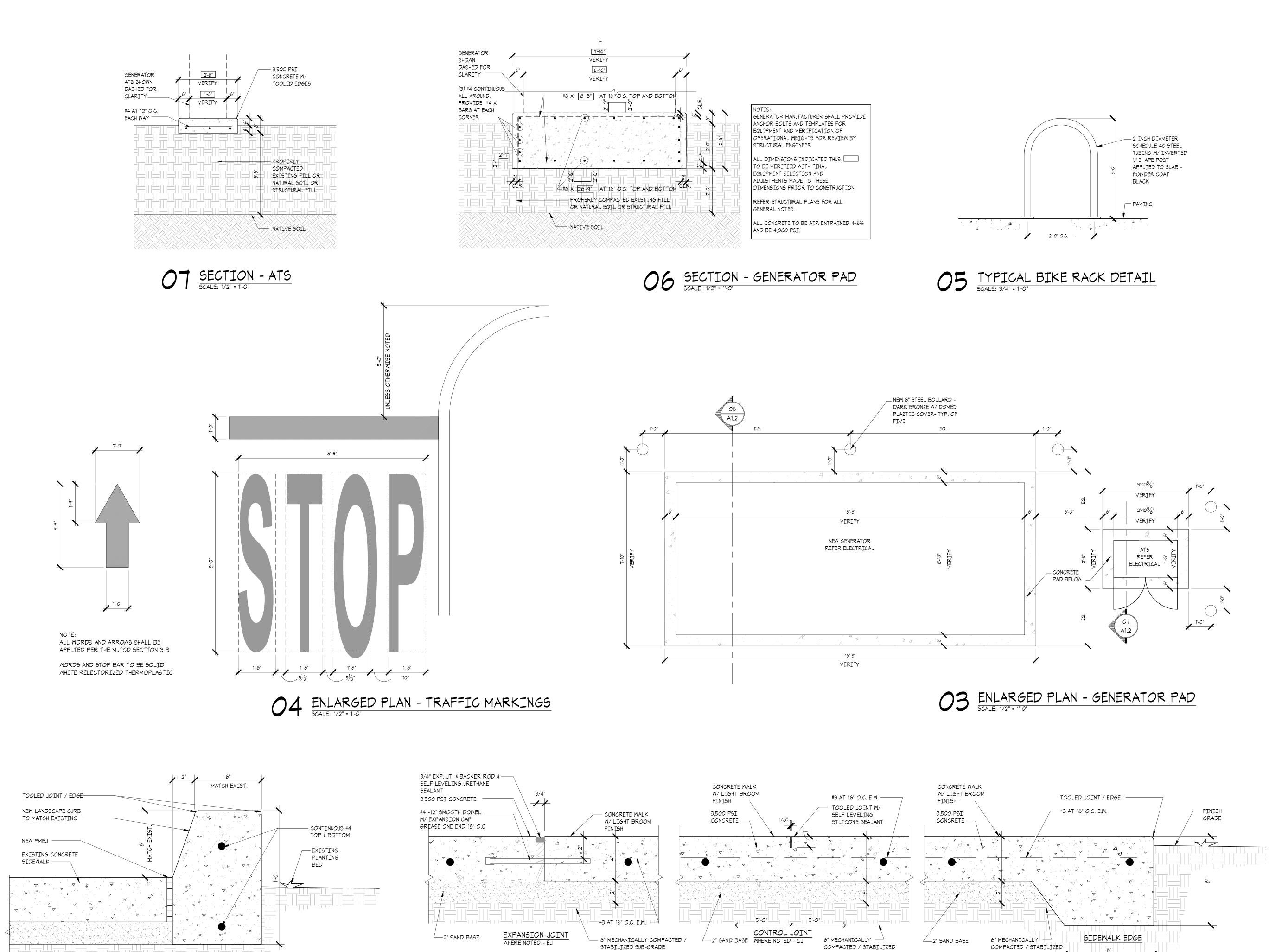
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Issue Date:

Revisions:

Project Number:

Sheet Title: SITE PLAN DETAILS



STABILIZED SUB-GRADE

TYPICAL SIDEWALK SECTION DETAIL

5CALE: 3" = 1'-0"

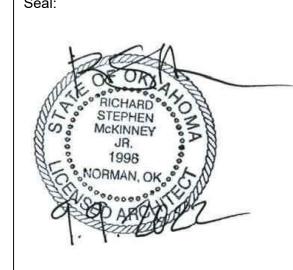
COMPACTED / STABILIZED

SUB-GRADE

SUB-GRADE

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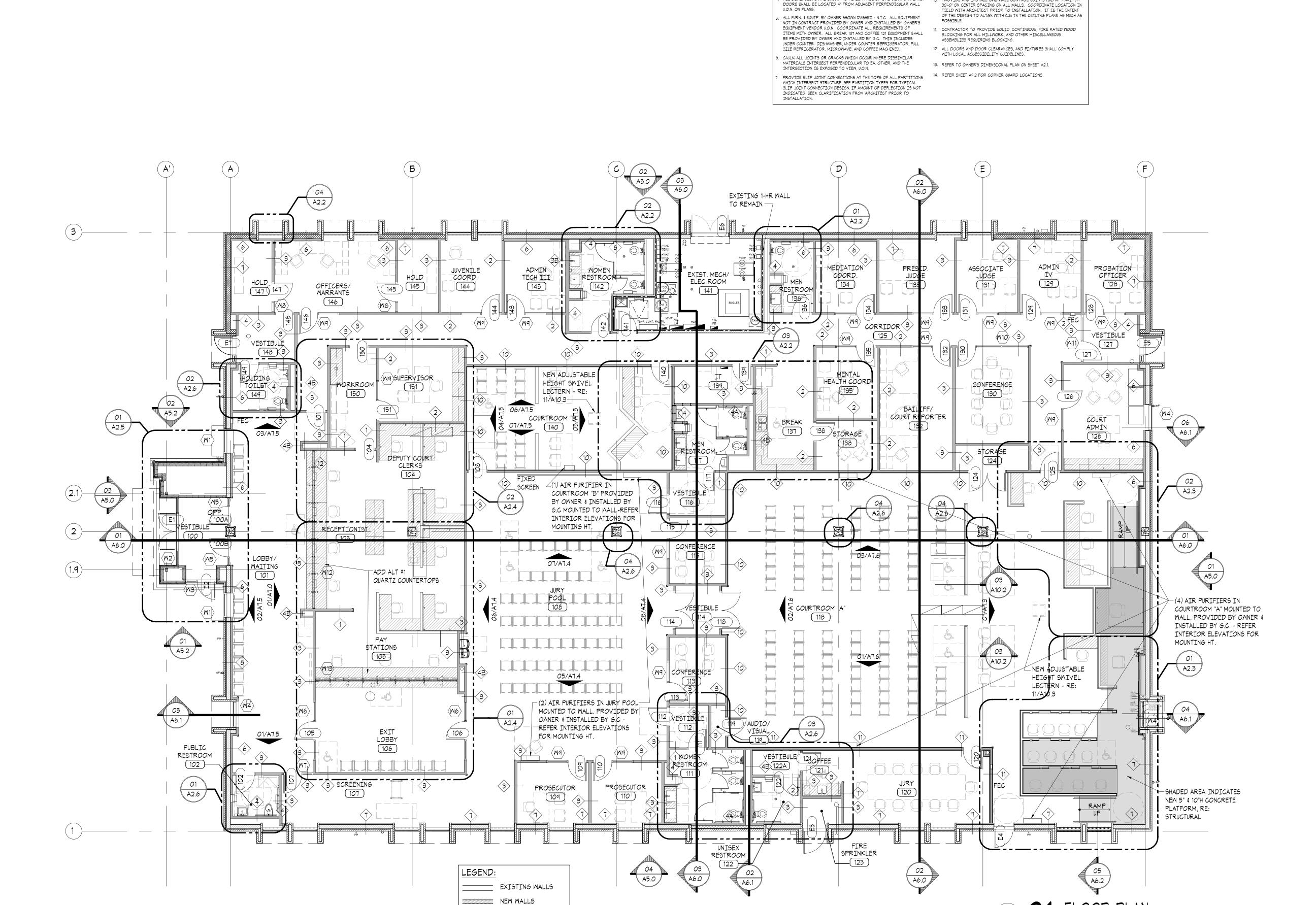
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Project Number:

CM083319

Sheet Title: SITE PLAN DETAILS



BUILT-IN MILLWORK

---- 1-HR RATED WALL

FLOOR PLAN GENERAL NOTES:

ALL CONSTRUCTION TO CONFORM TO ALL APPLICABLE BUILDING

ANY DISCREPANCIES BETWEEN DRAWINGS AND / OR SPECIFICATIONS

AND FIELD CONDITIONS SHALL BE REFERRED TO ARCHITECT FOR ADJUSTMENT DURING BIDDING OR BEFORE WORK COMMENCES

INSTALL ALL PRODUCTS AND ASSEMBLIES IN STRICT ACCORDANCE

. ALL DIMENSIONS ARE SHOWN TO FINISH FACE OF GMB U.O.N. ON PLANS.

WITH MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS.

CODES - LATEST ADOPTED EDITIONS - REFER LSF1.0

8. INSTALLATION DETAILS AND DIMENGIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS

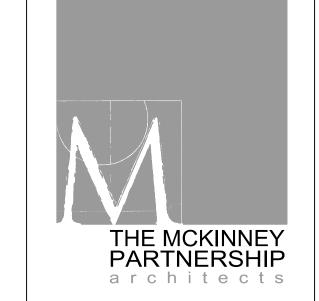
FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING

PARTITION THICKNESS FOR RECESSED PRODUCTS), & IS RESPONSIBLE FOR ACCOMMODATING ANY CHANGES TO OTHER MATERIALS OR

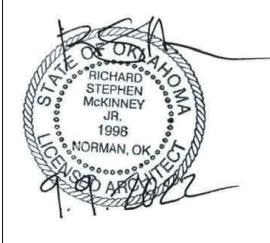
PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.

10. PROVIDE AND INSTALL GWB WALL CONTROL JOINTS (CJ) AT MAXIMUM 30'-0" ON CENTER SPACING ON ALL WALLS. COORDINATE LOCATION IN

9. REFER TO AO.1 FOR PARTITION TYPES



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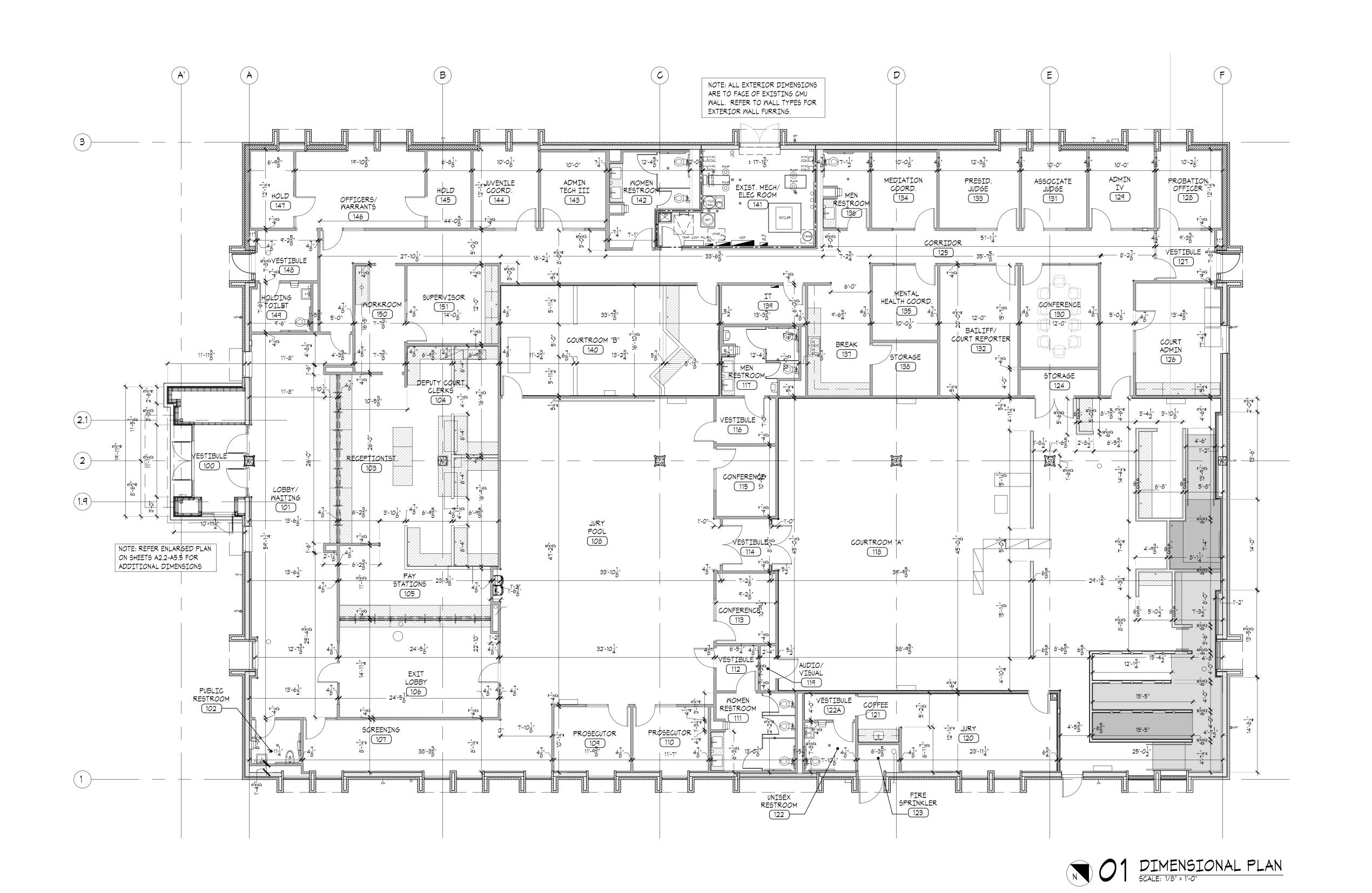
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Project Number:

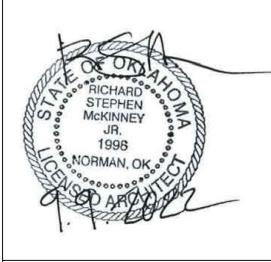
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Sheet Title: FLOOR PLAN





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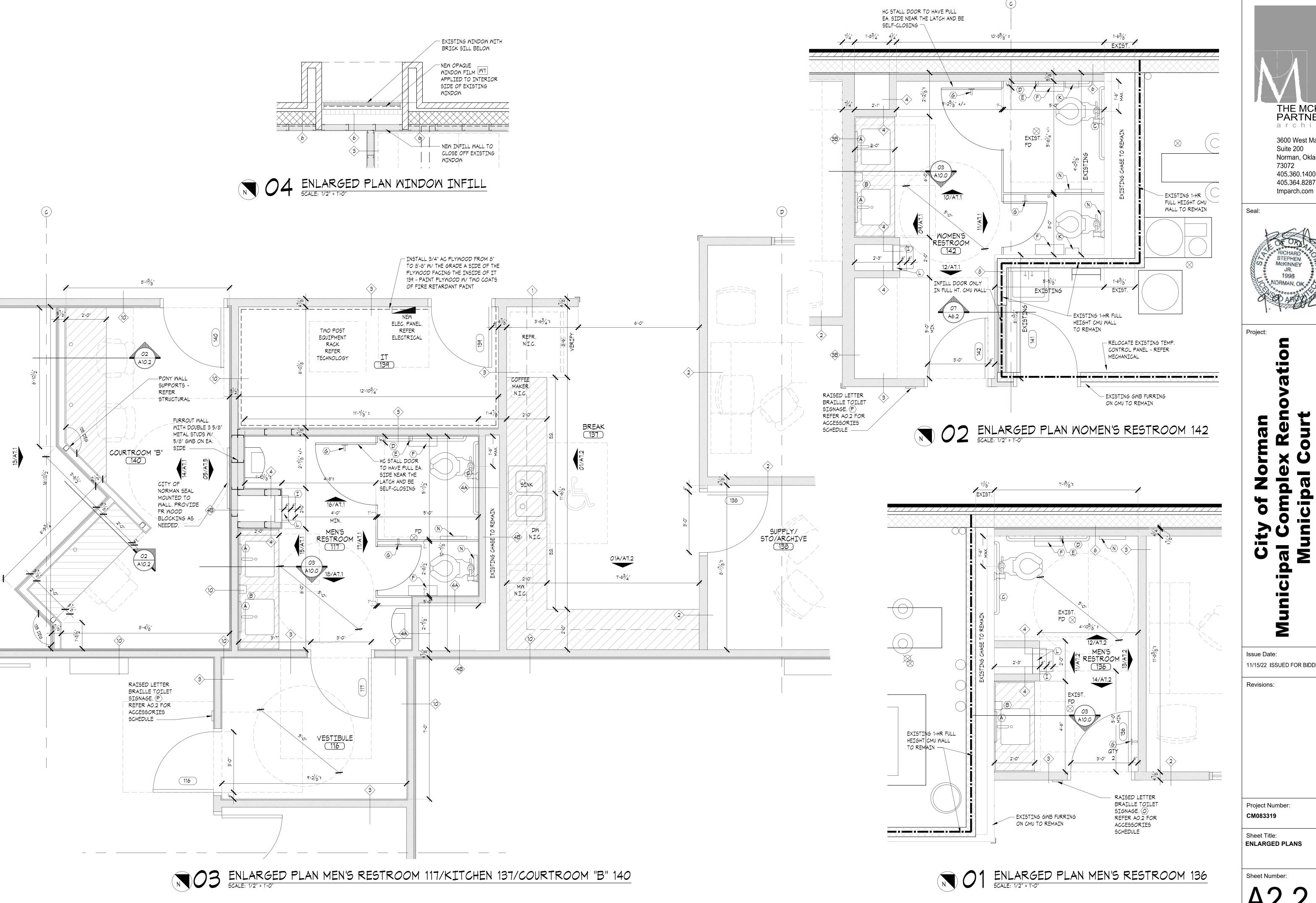
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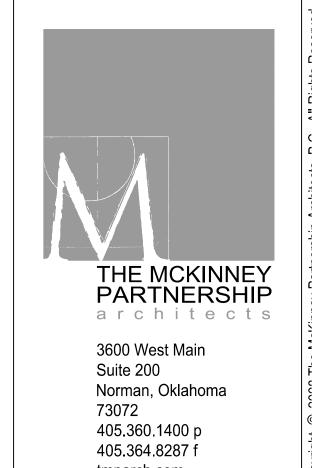
Revisions:

Project Number:

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Sheet Title: DIMENSIONAL PLAN

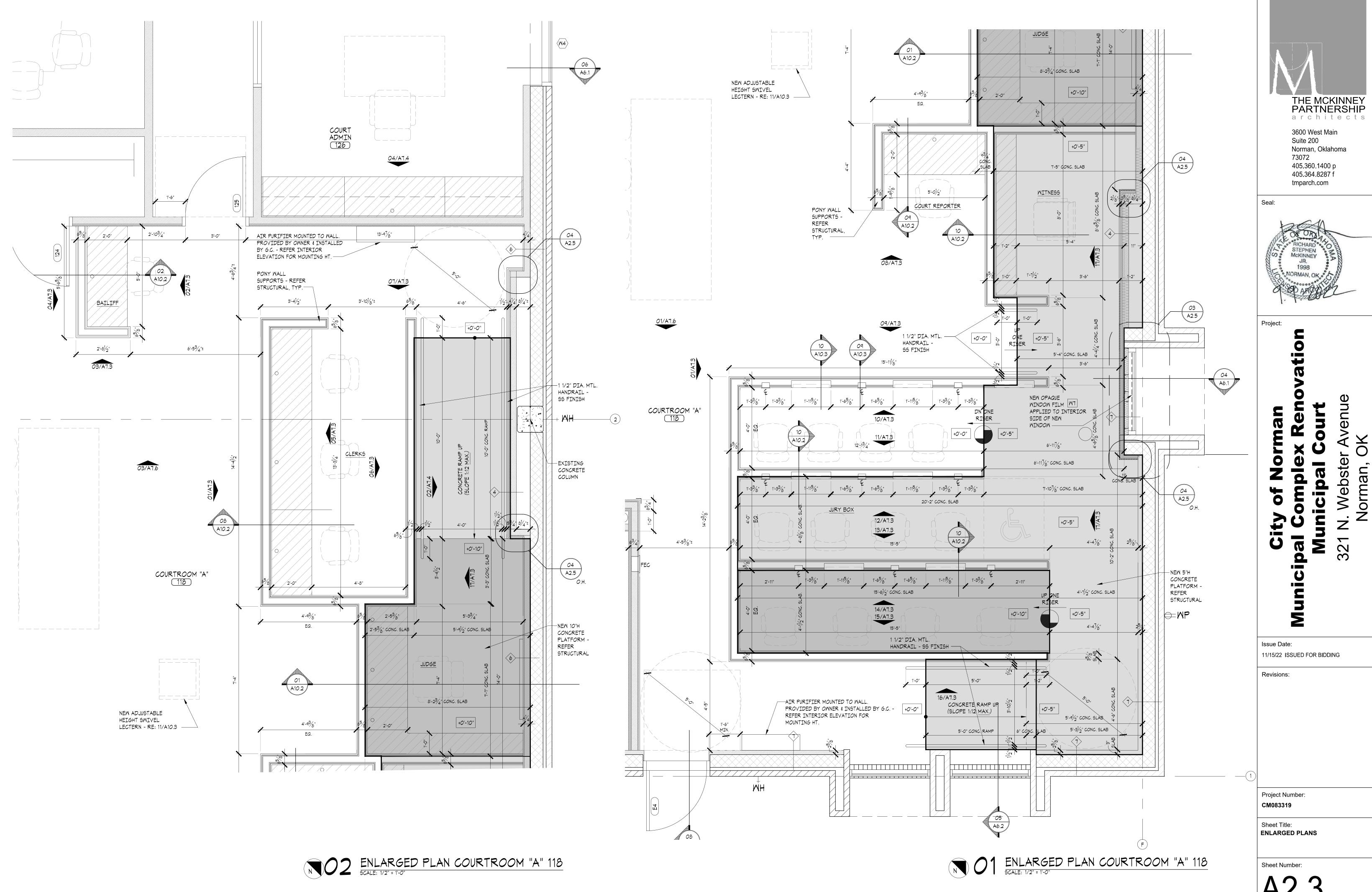


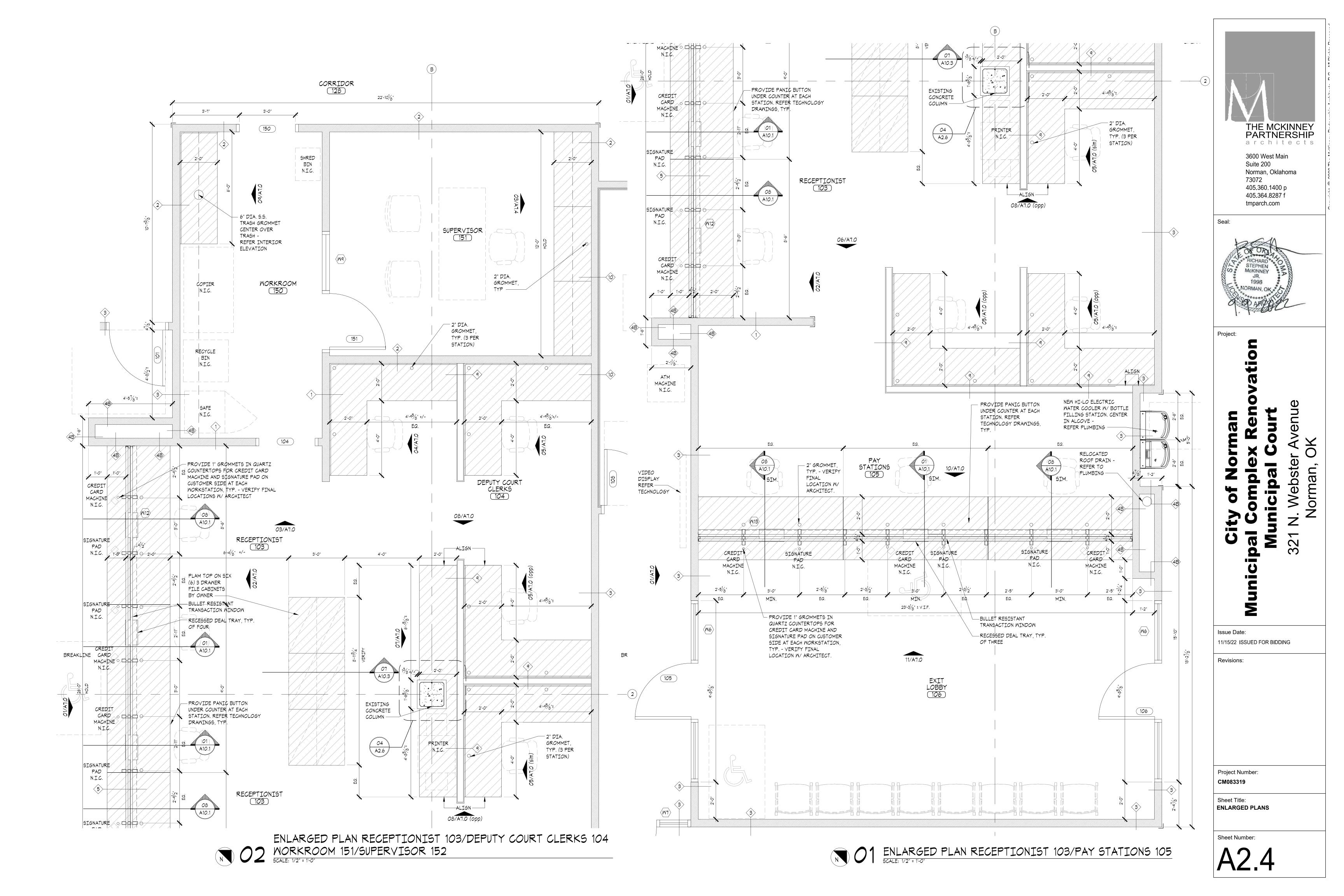


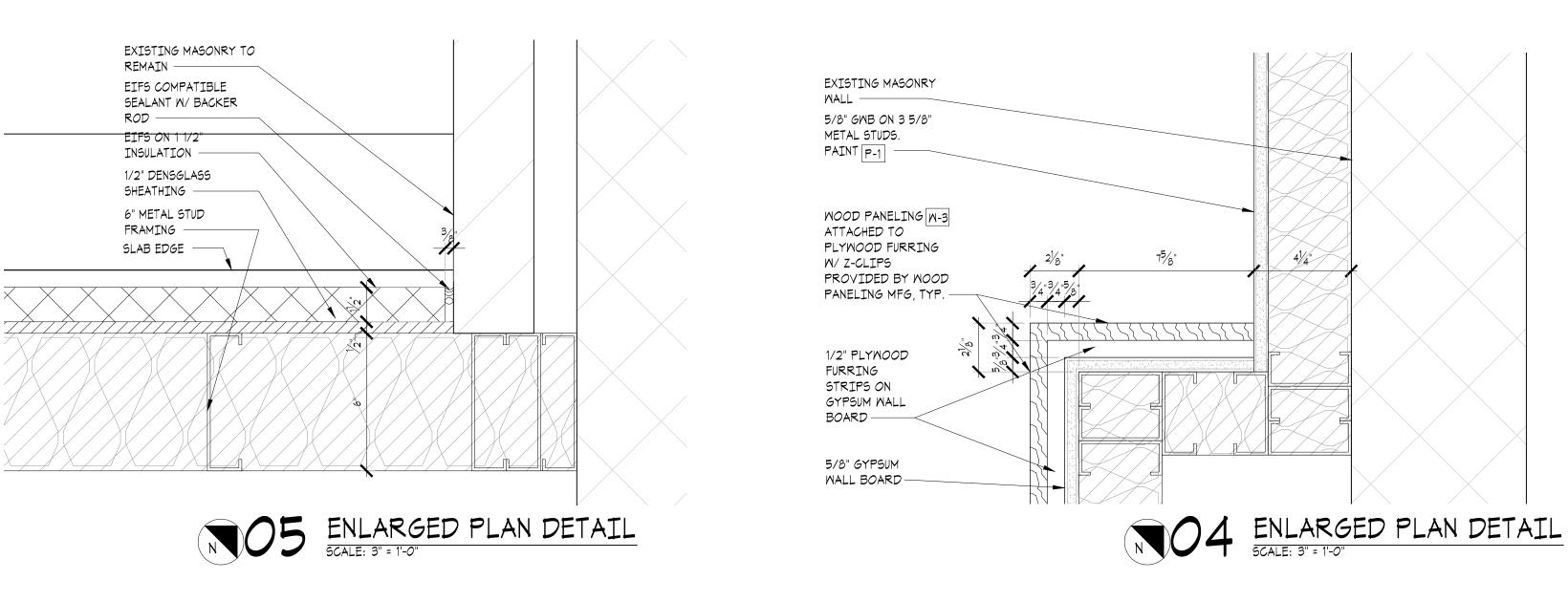
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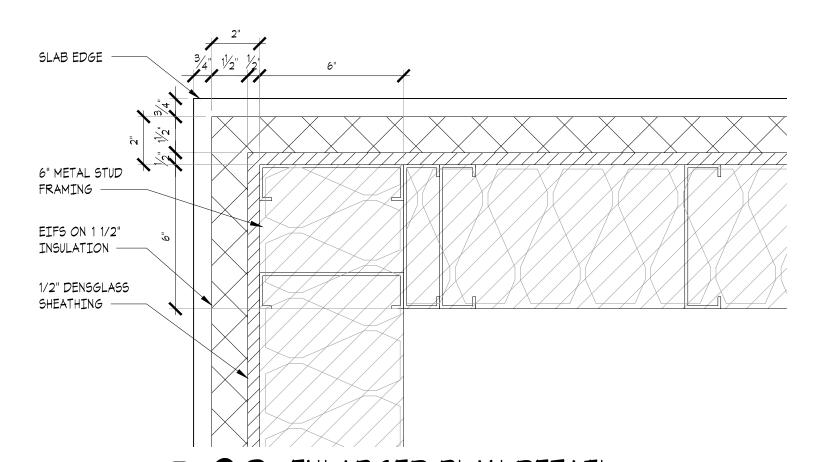
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NO2 ENLARGED PLAN DETAIL

SCALE: 3" = 1'-0" STEPHEN MCKINNEY O NORMAN, OK

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Norman, Oklahoma

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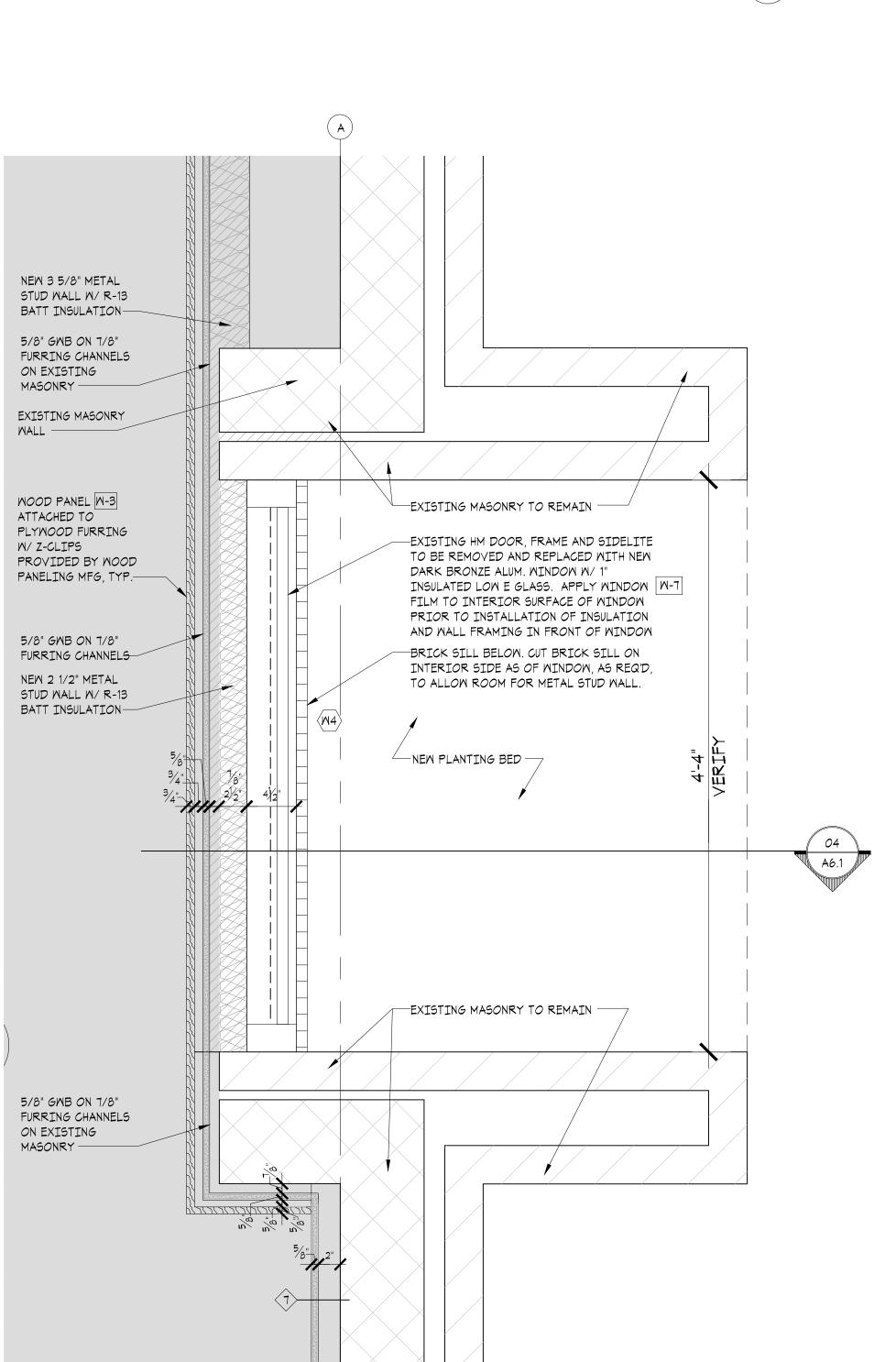
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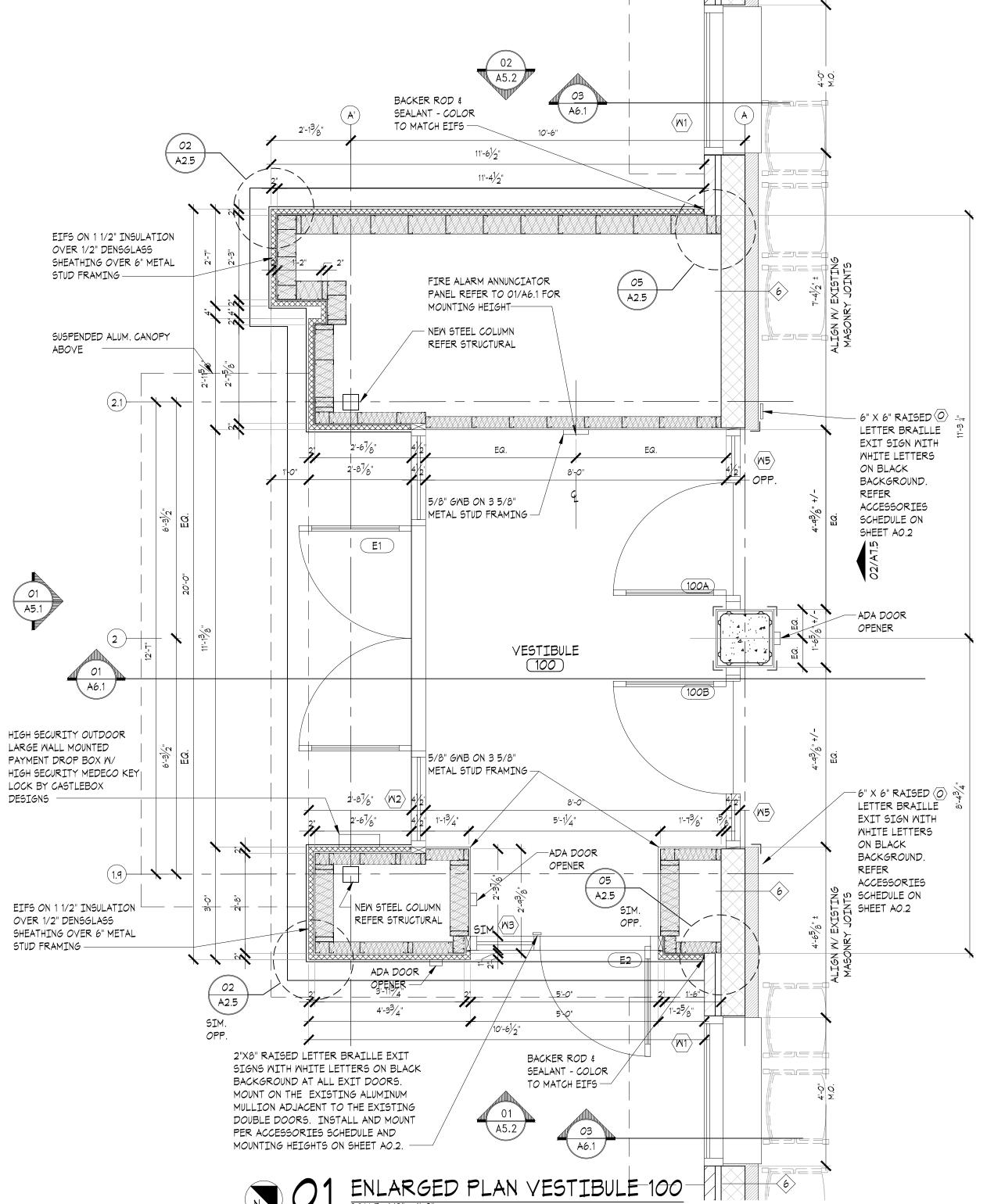
Project Number:

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Sheet Title: **ENLARGED PLANS**

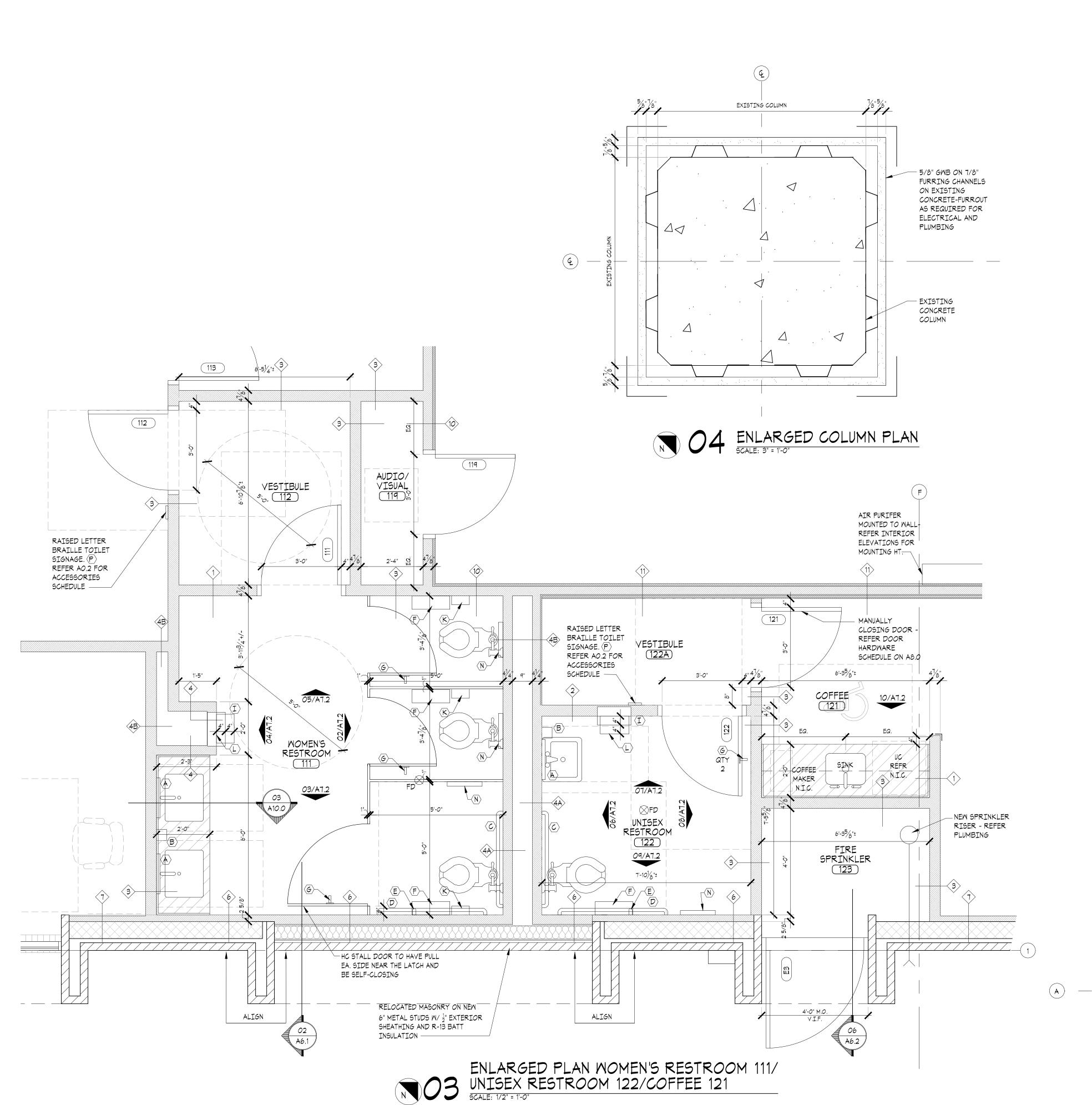
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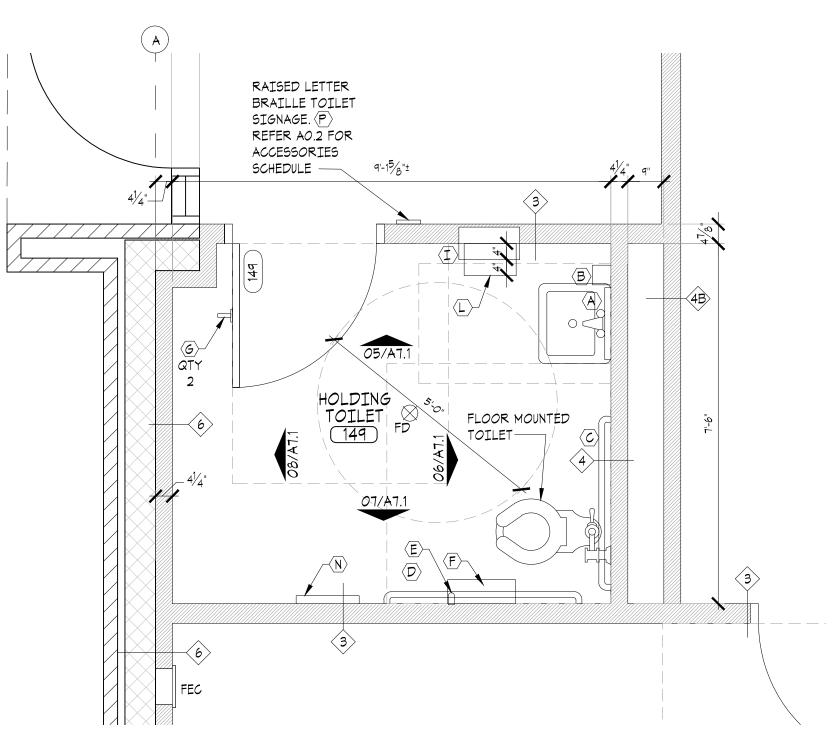


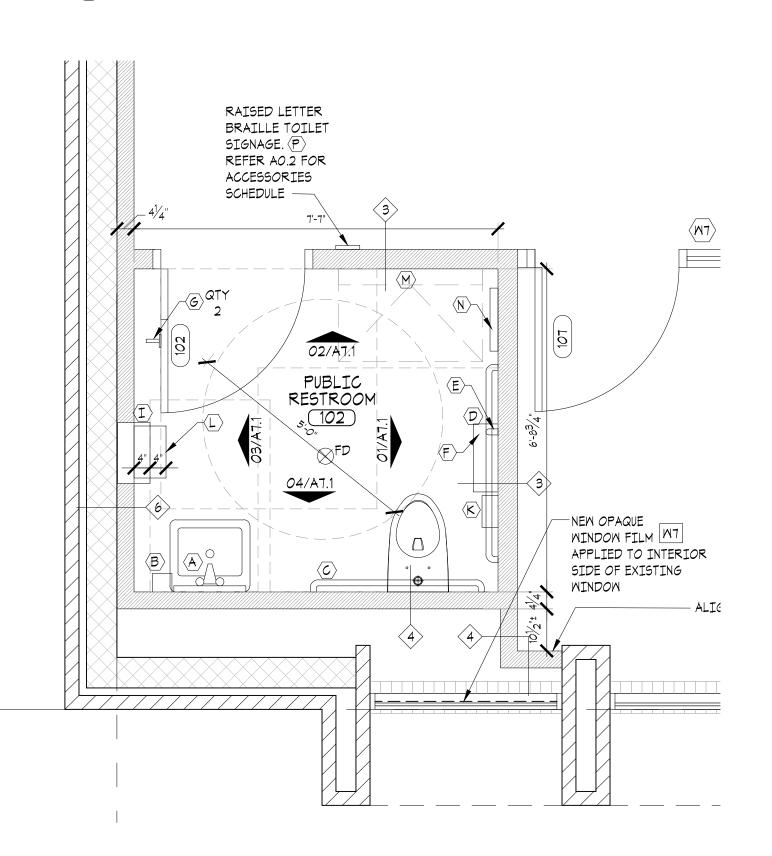


NOS ENLARGED PLAN DETAIL

SCALE: 1 1/2" = 1'-0"





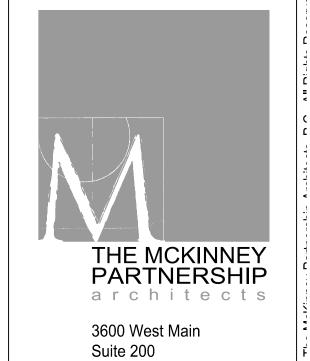


O2 ENLARGED PLAN HOLDING TOILET 149

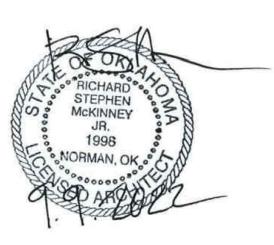
SCALE: 1/2" = 1'-0"

O1 ENLARGED PLAN PUBLIC RESTROOM 102

SCALE: 1/2" = 1'-0"



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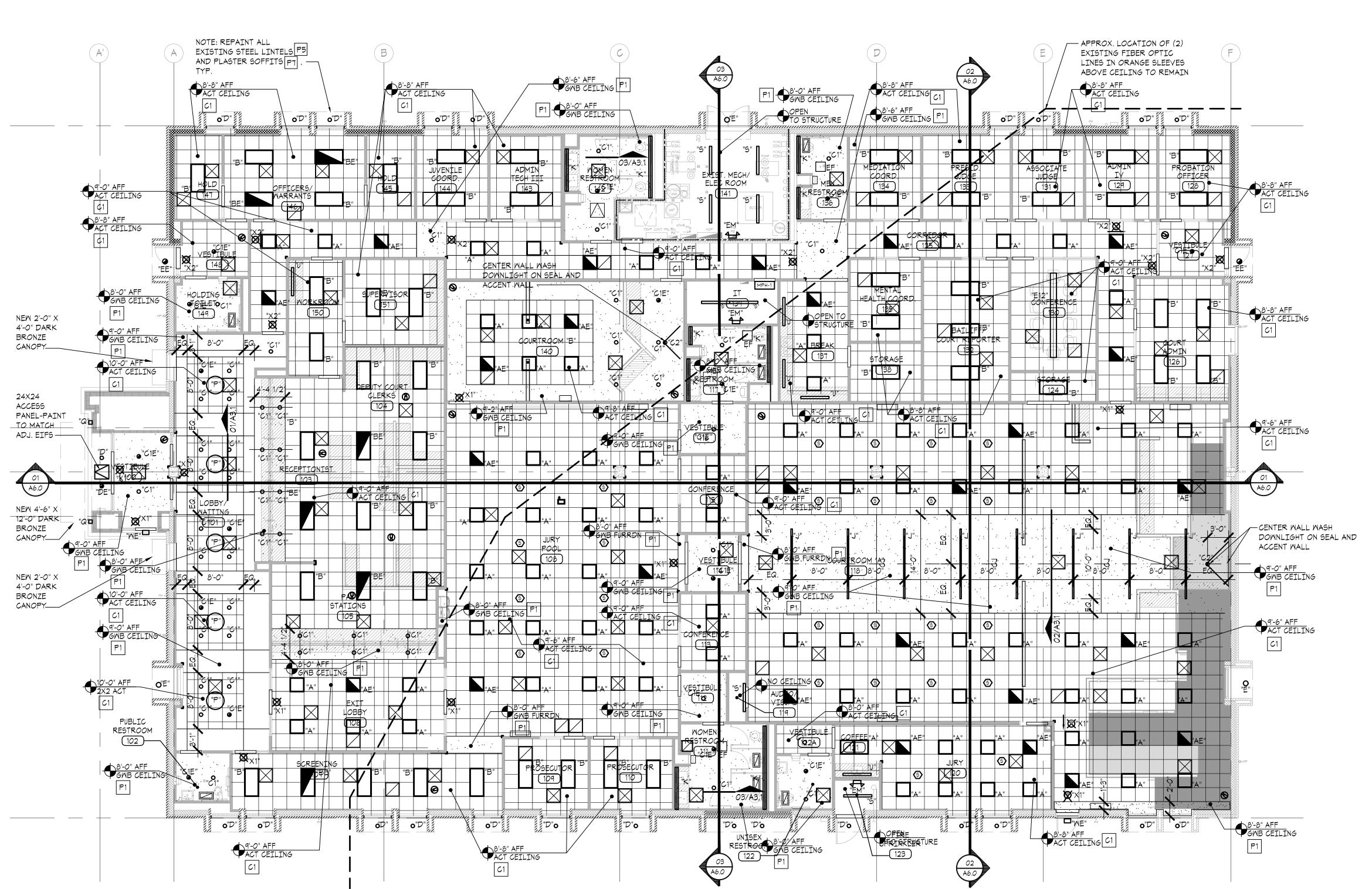
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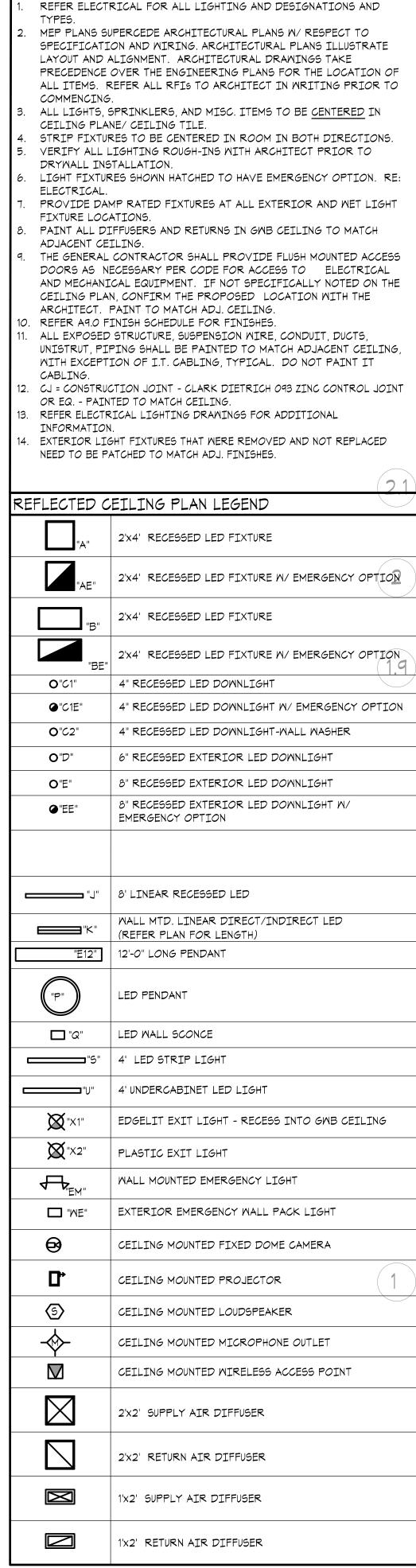
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Sheet Title: ENLARGED PLANS

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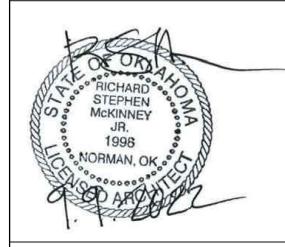


REFLECTED CEILING PLAN GENERAL NOTES:



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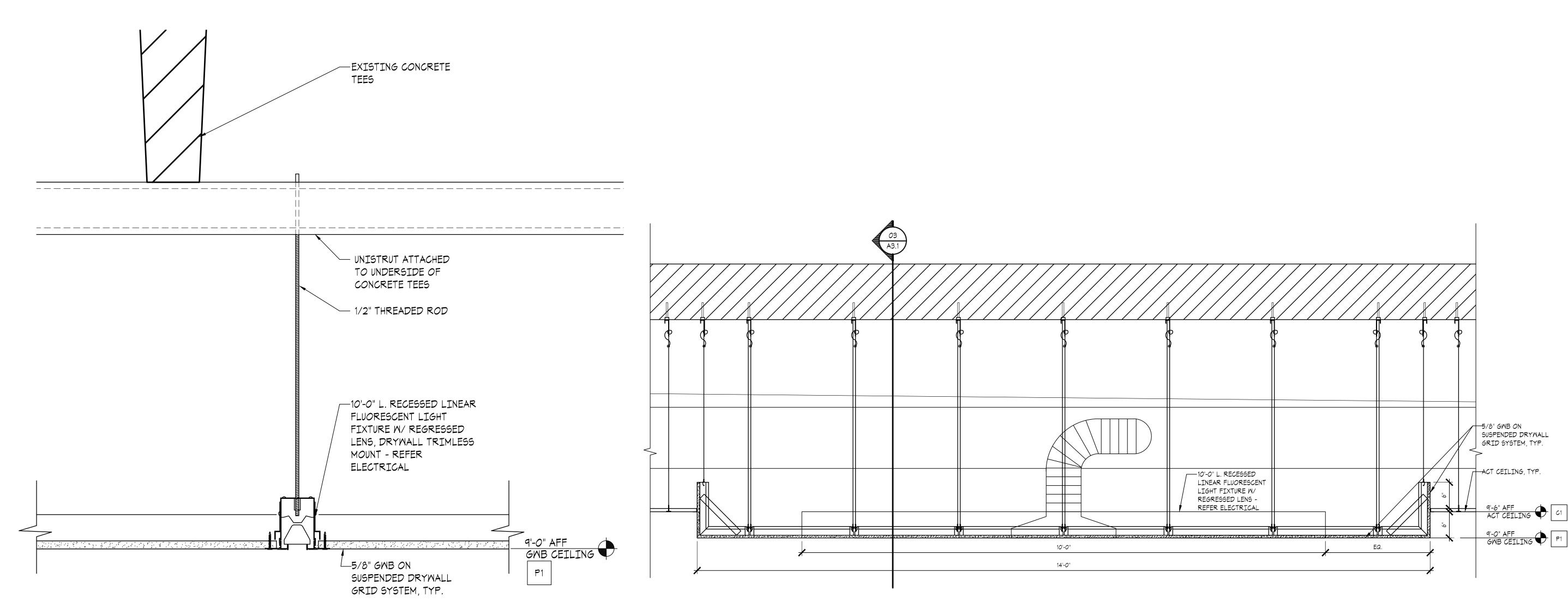
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REFLECTED CEILING PLAN

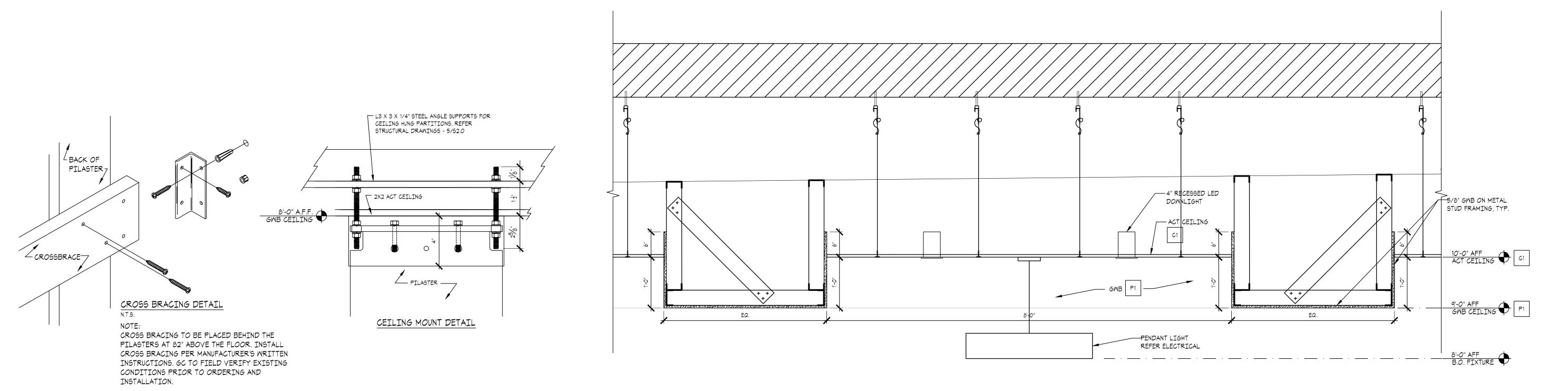
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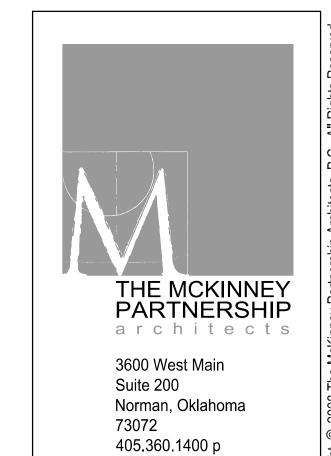
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02 FURRDOWN DETAIL AT COURTROOM 'A'



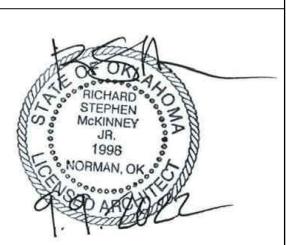
O1 FURRDOWN DETAIL AT LOBBY/WAITING



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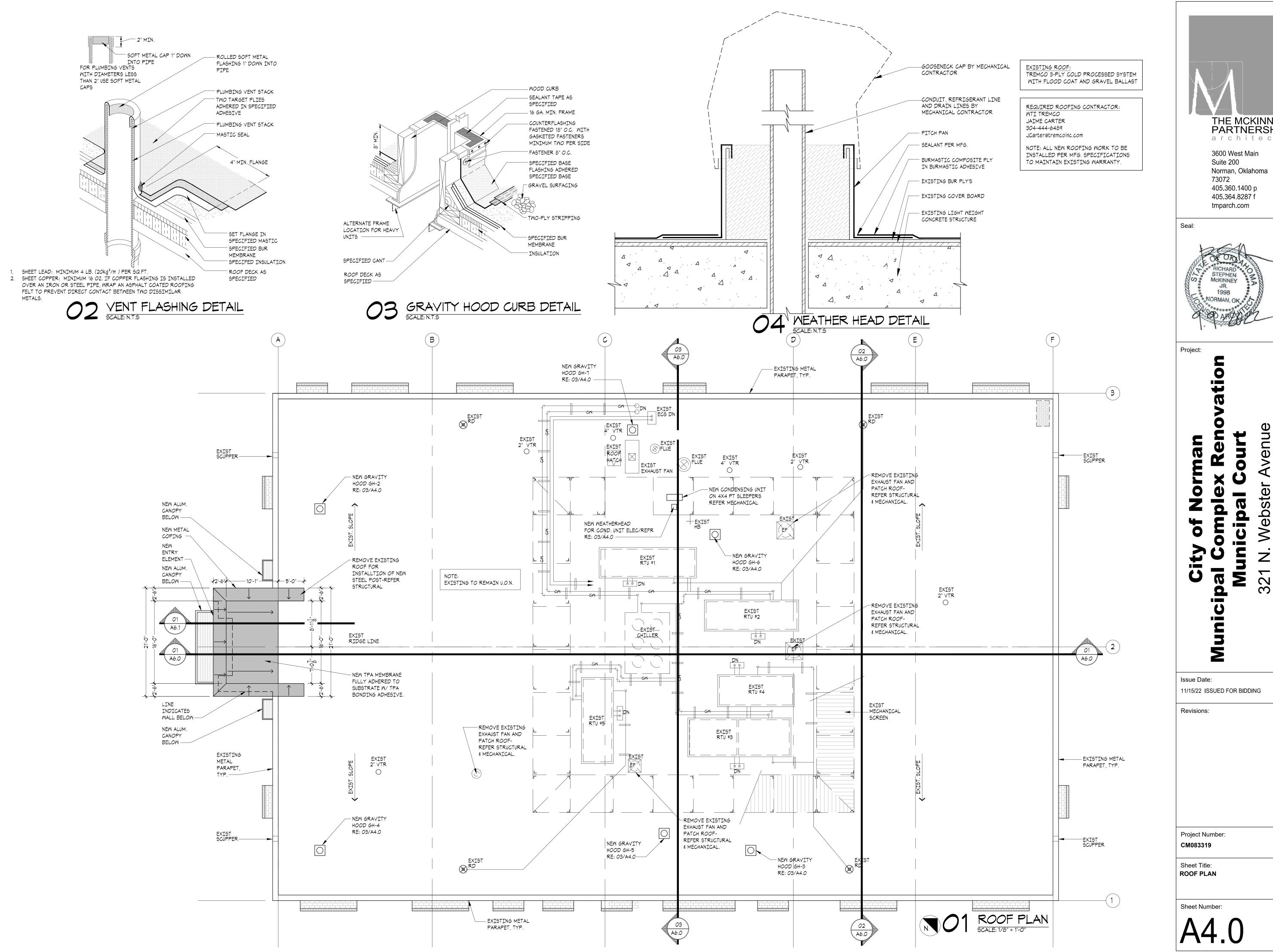
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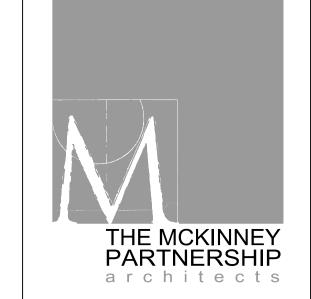
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CEILING DETAILS

Sheet Number:

A3.1

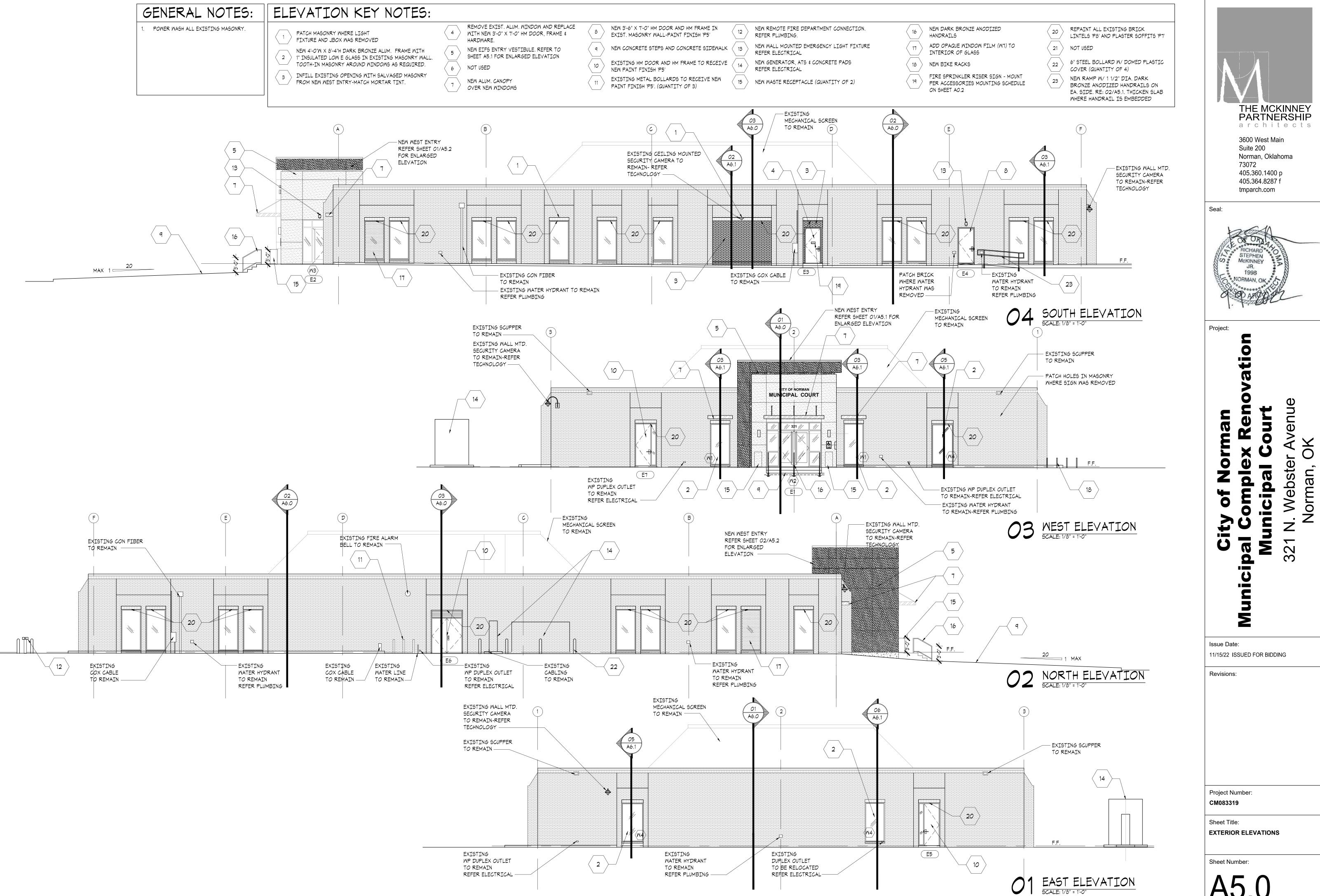
03 LIGHT FIXTURE DETAIL AT COURTROOM 'A'

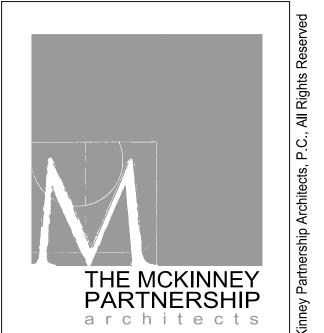


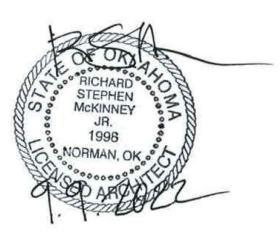


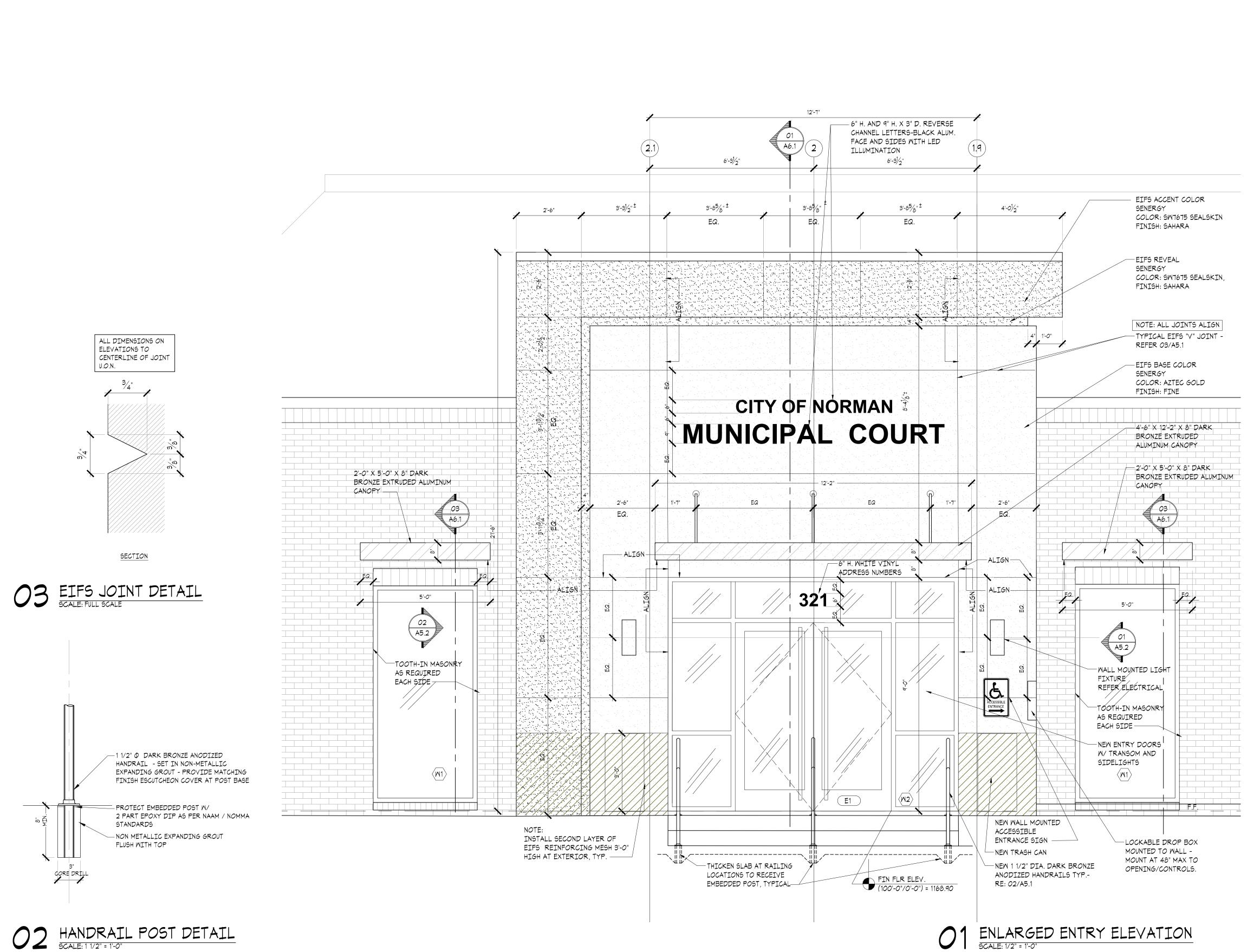
Norman, Oklahoma

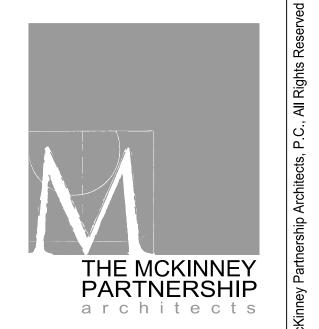
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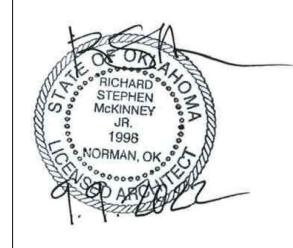






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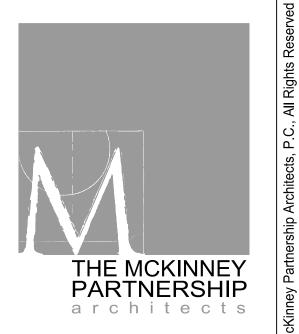
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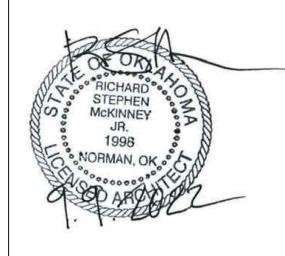
ENLARGED EXTERIOR ELEVATION

Sheet Number:

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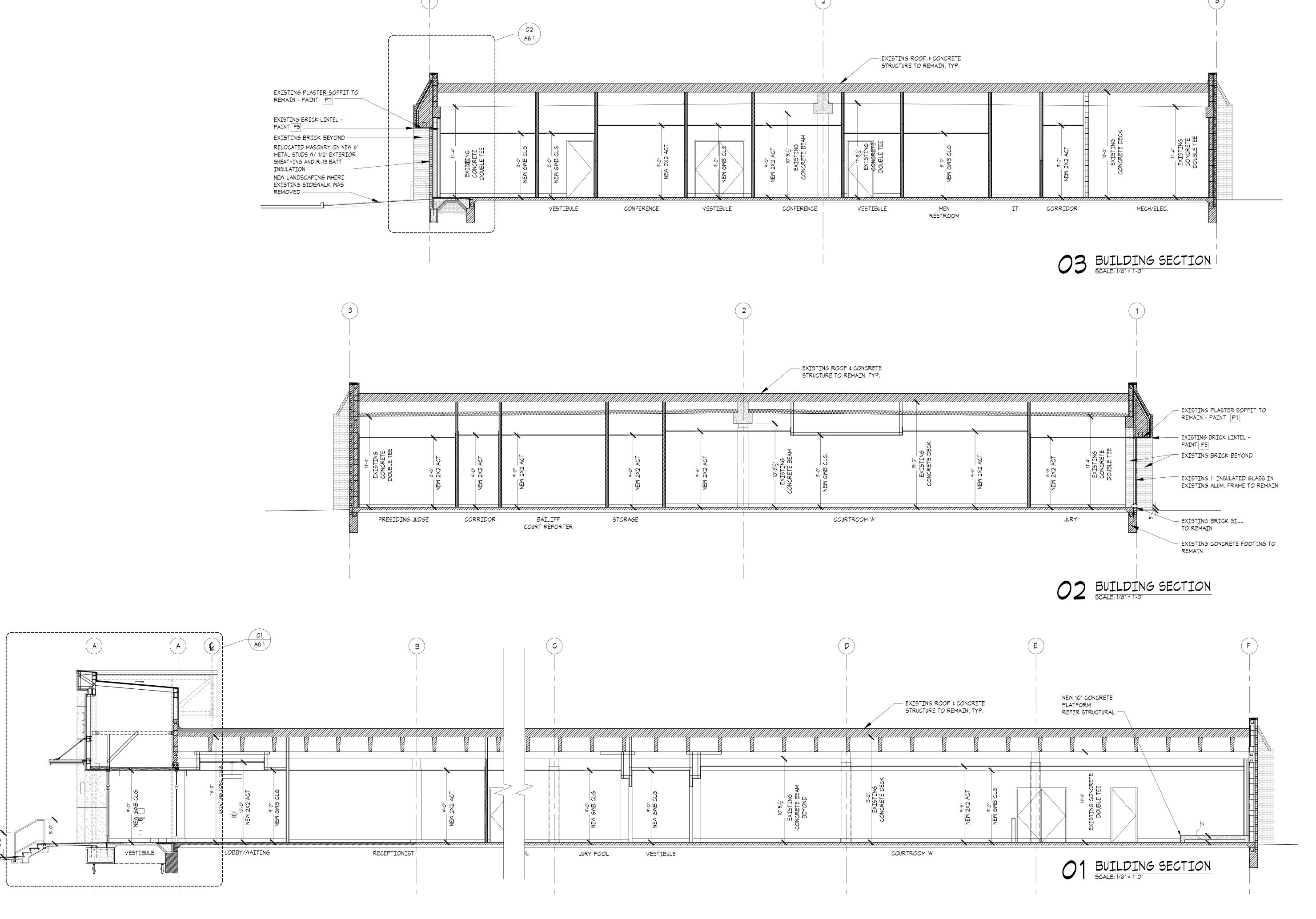
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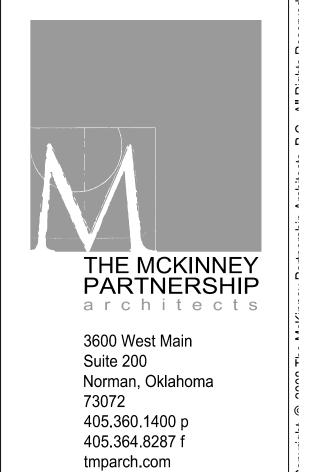
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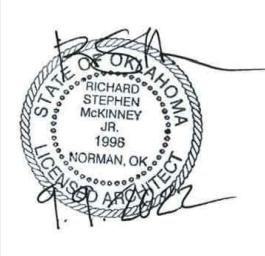
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ENLARGED EXTERIOR ELEVATIONS







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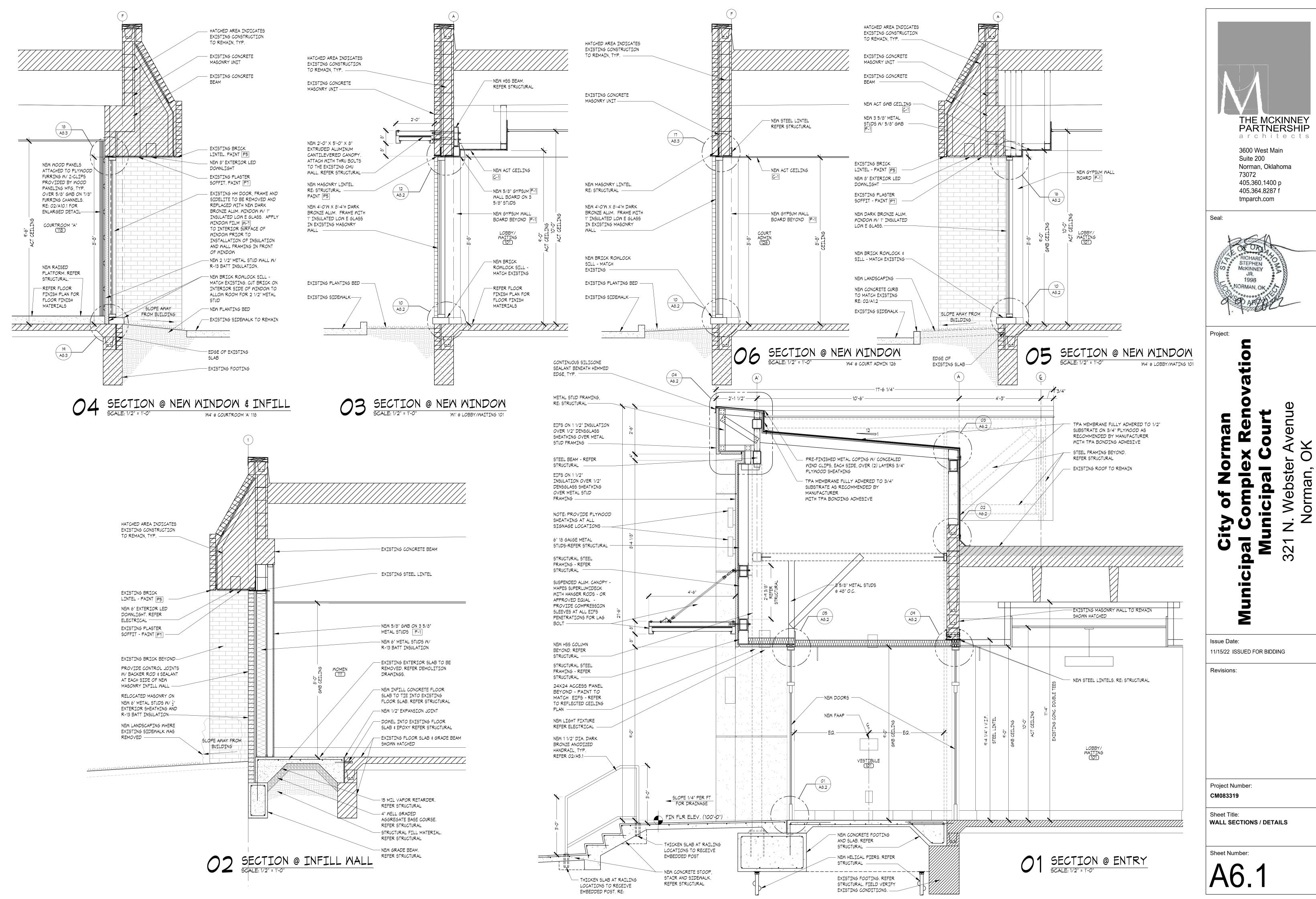
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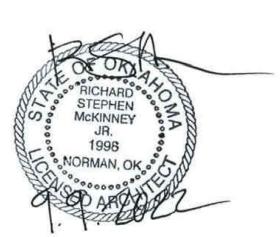
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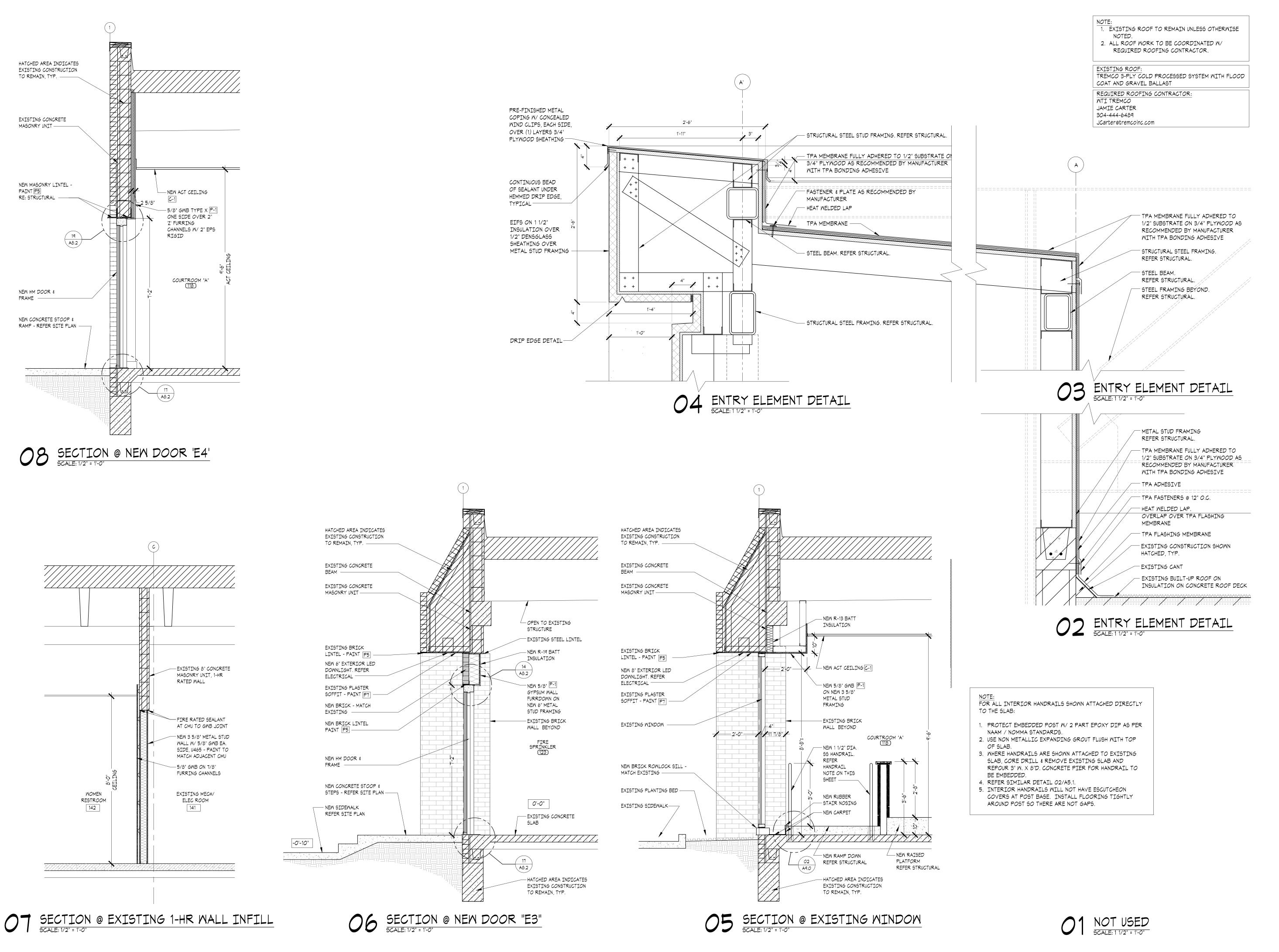
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Sheet Title: BUILDING SECTIONS





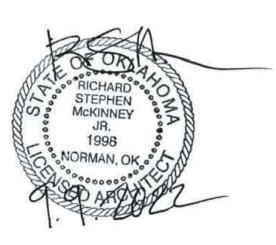


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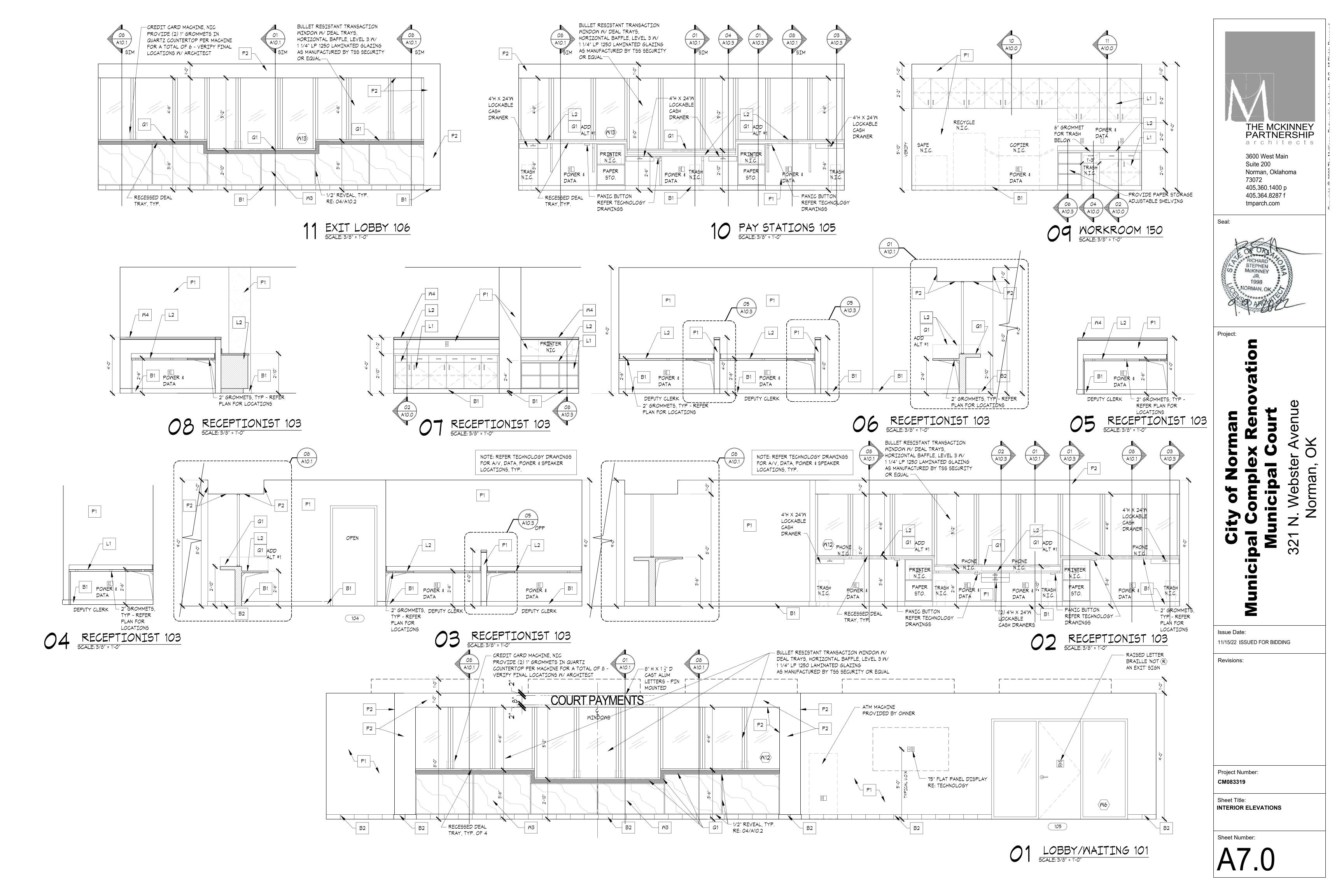
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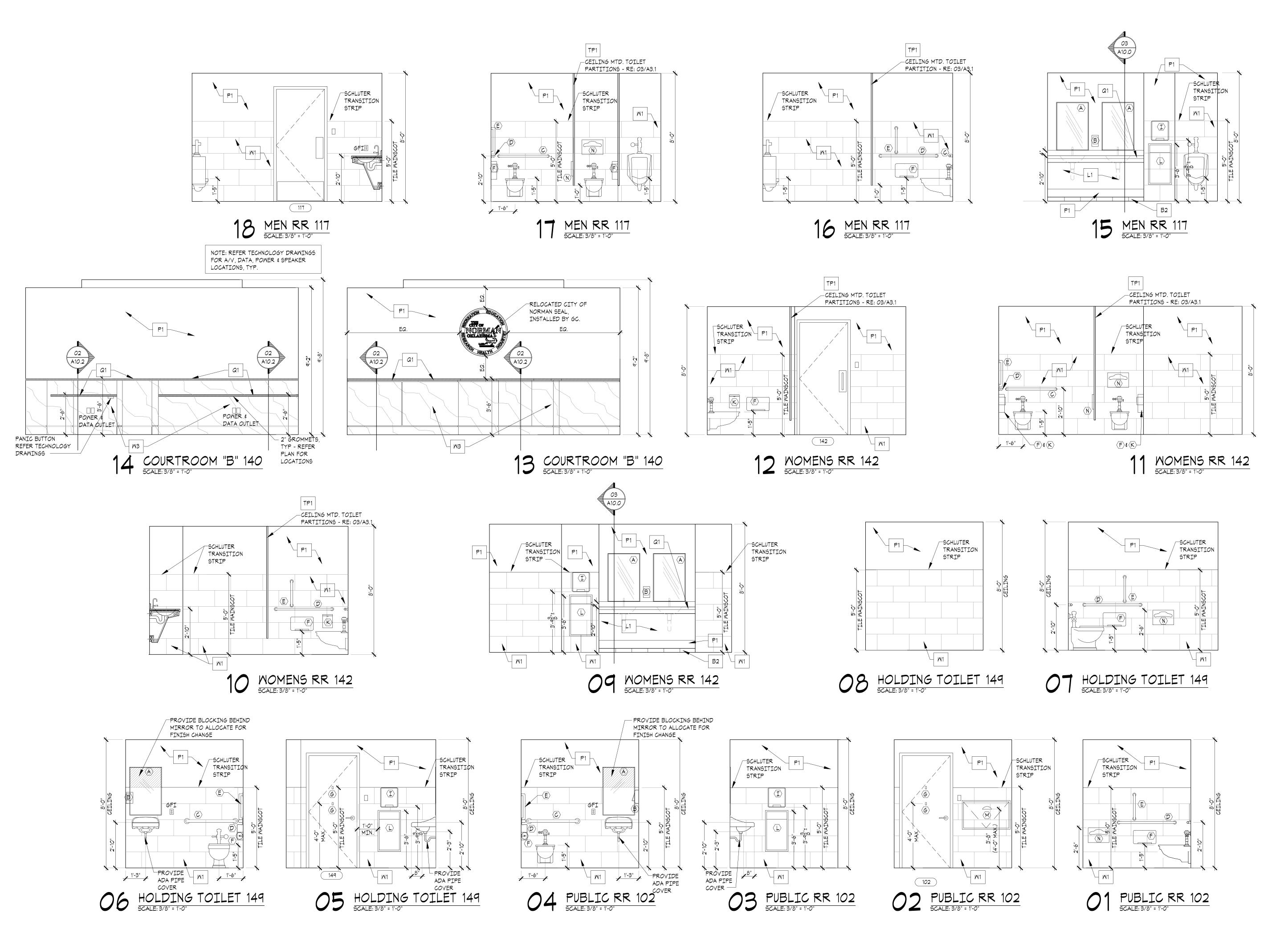
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Sheet Title: **DETAILS**

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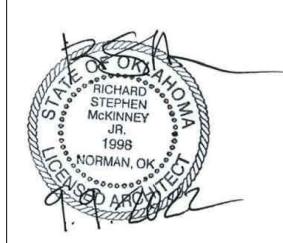




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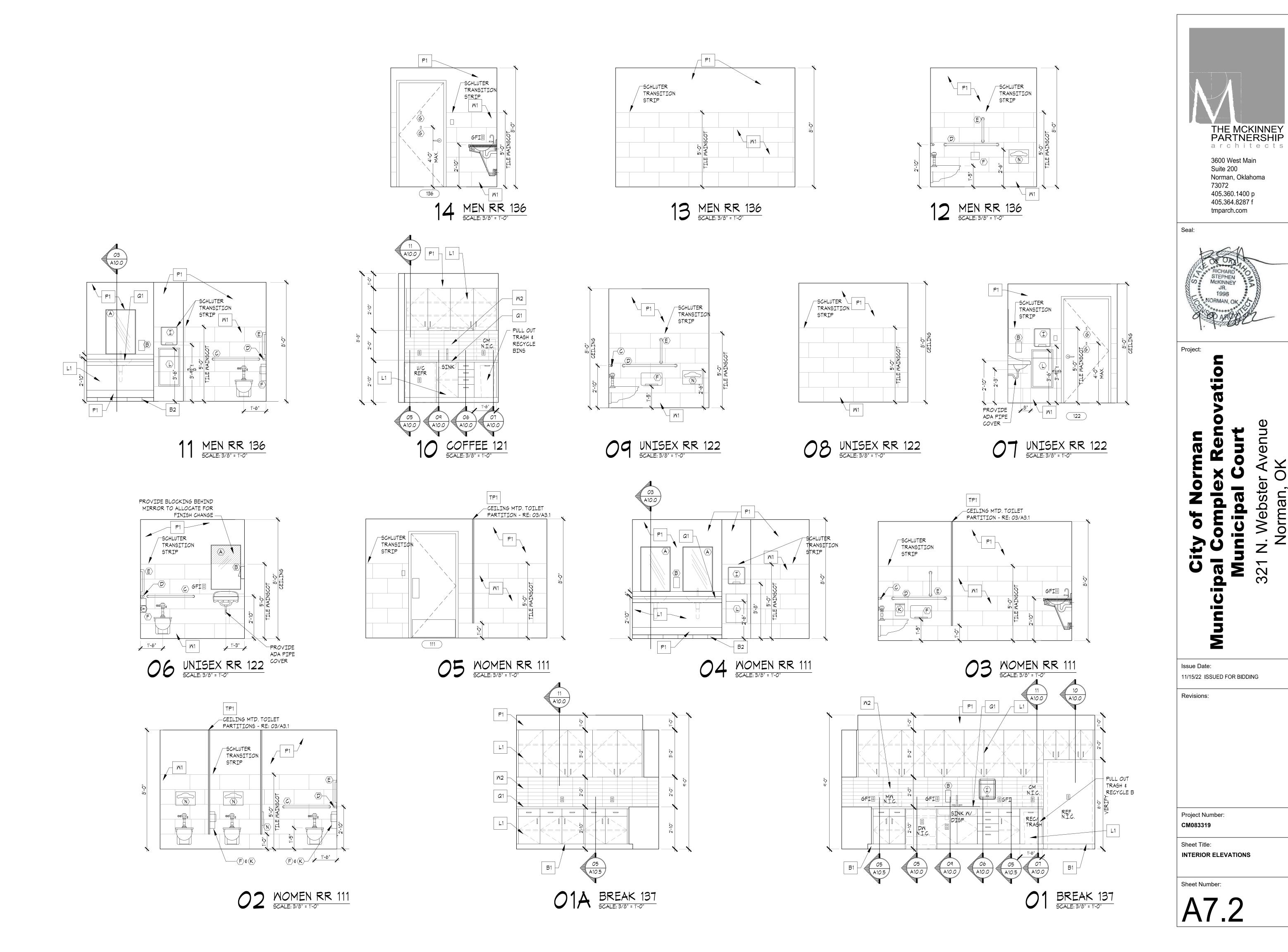
Issue Date: 11/15/22 ISSUED FOR BIDDING

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Project Number:

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INTERIOR ELEVATIONS



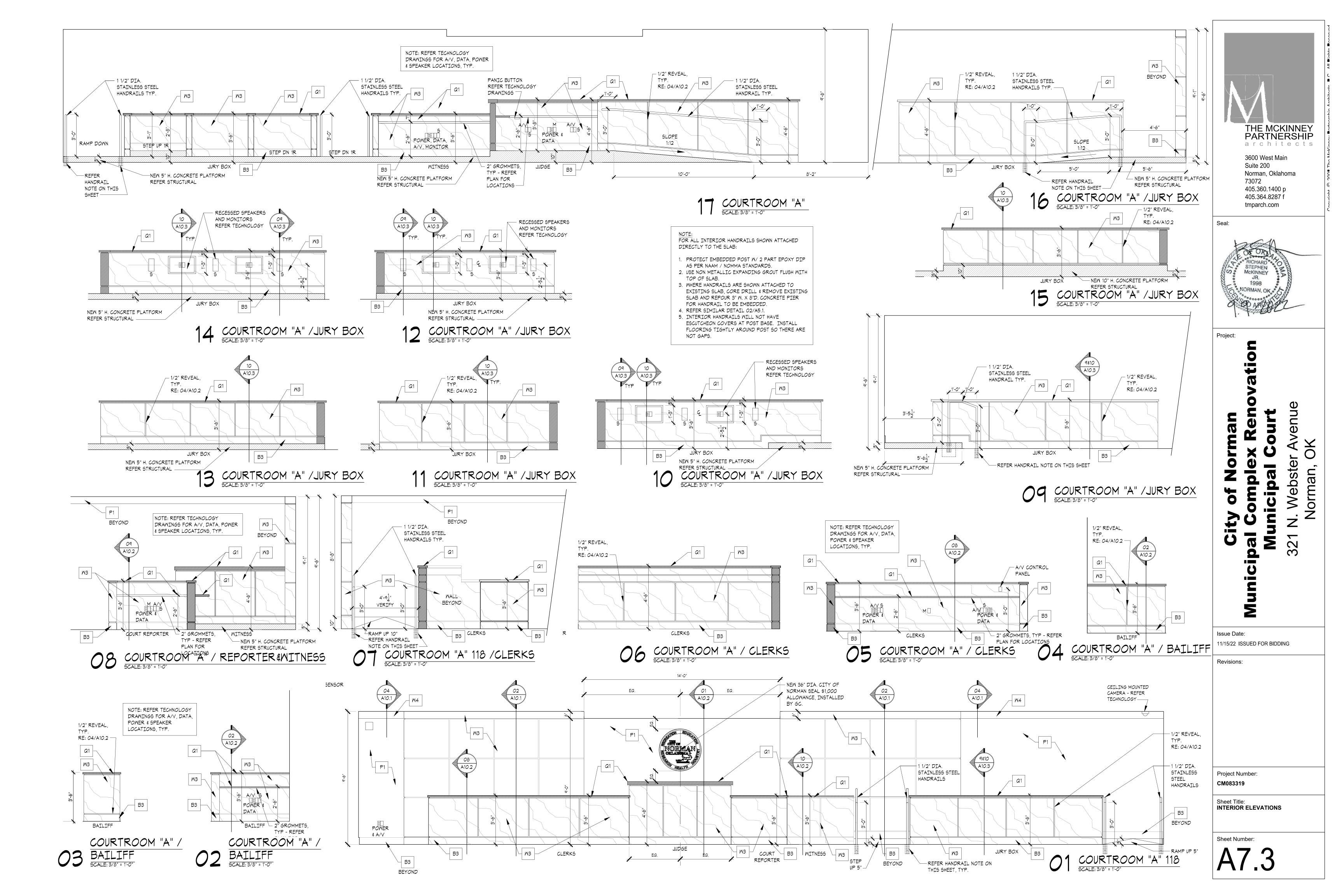
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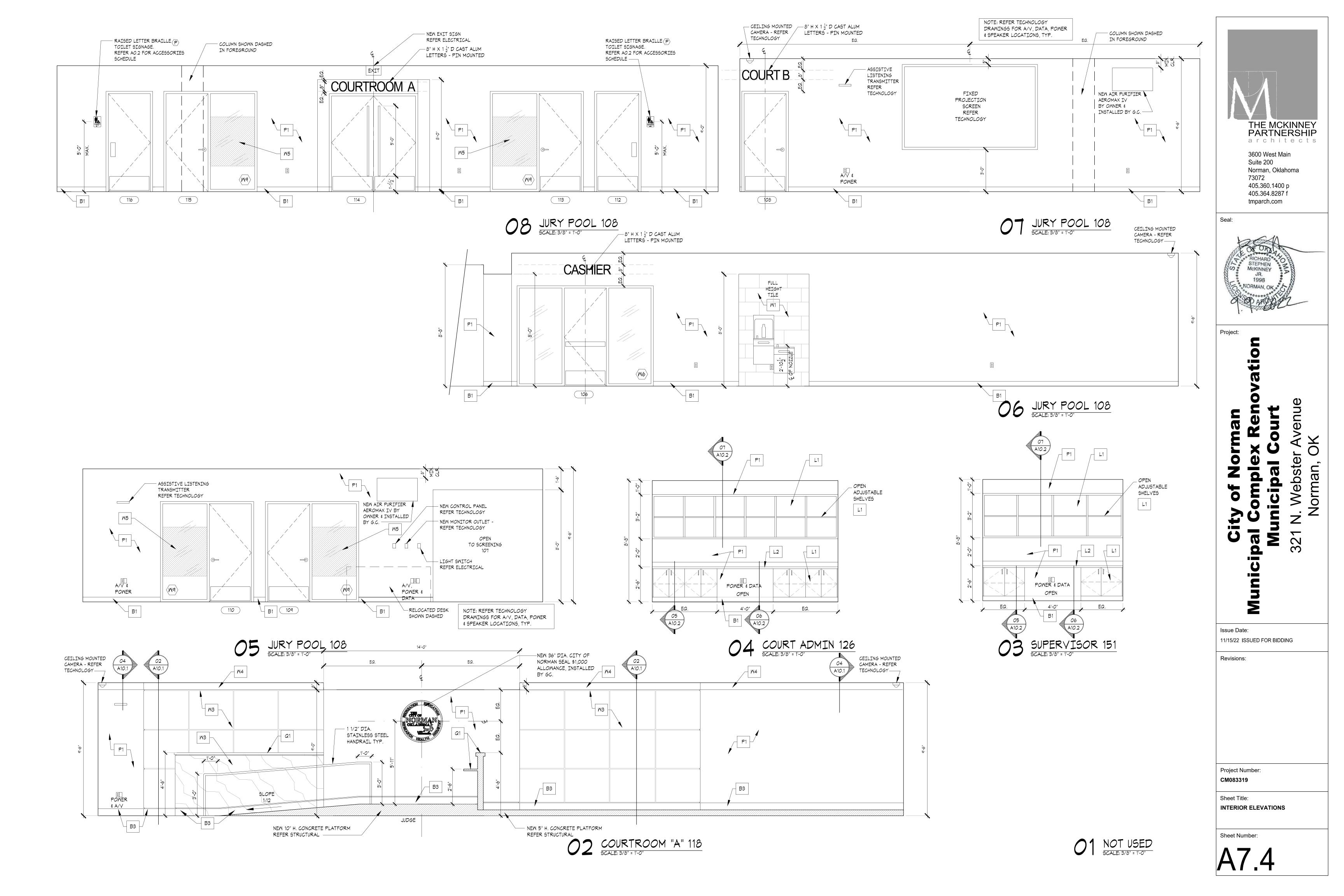
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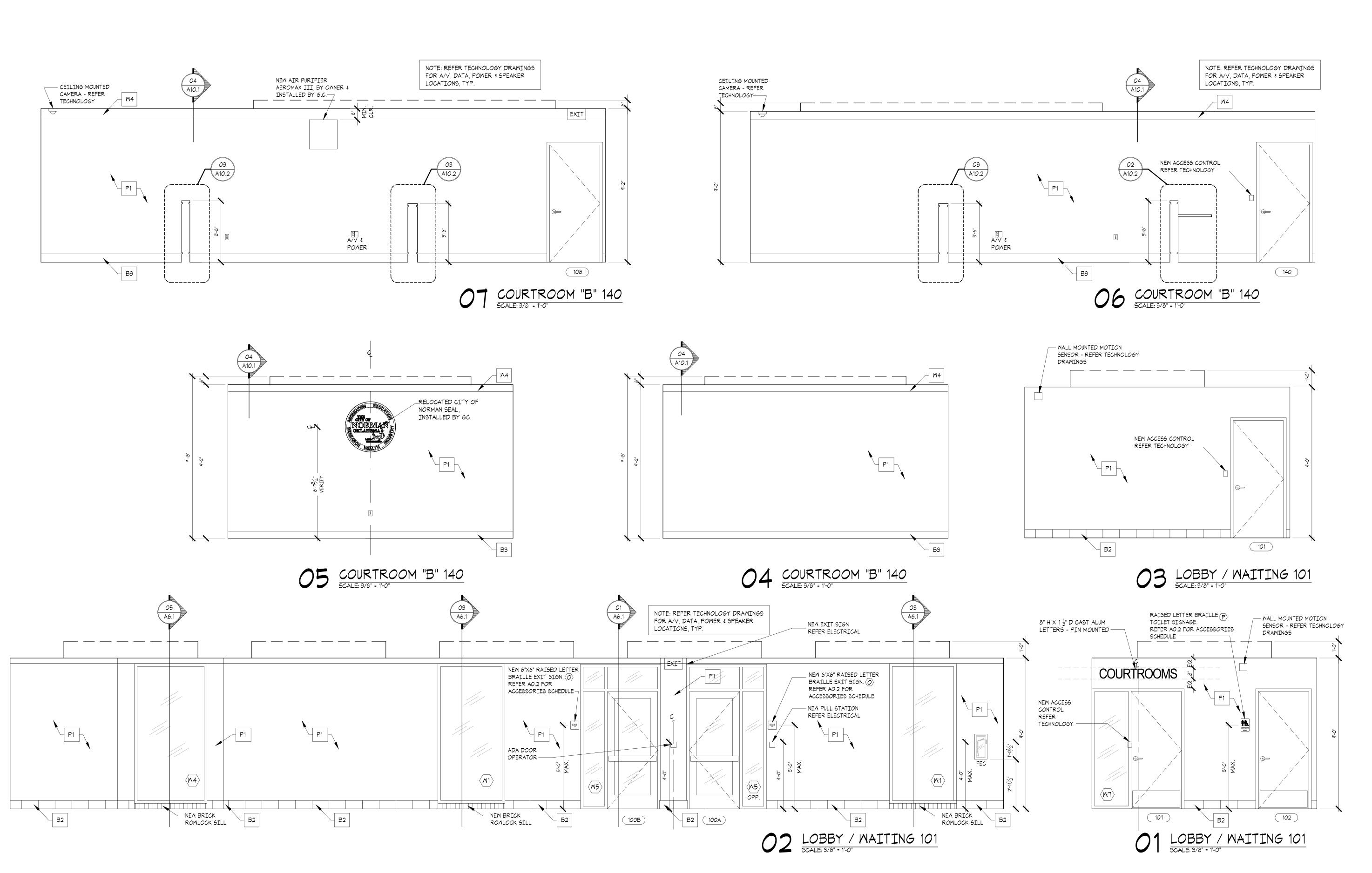
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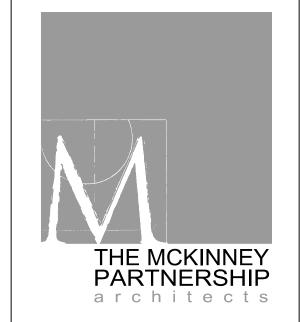
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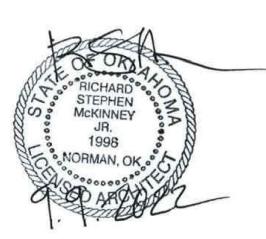






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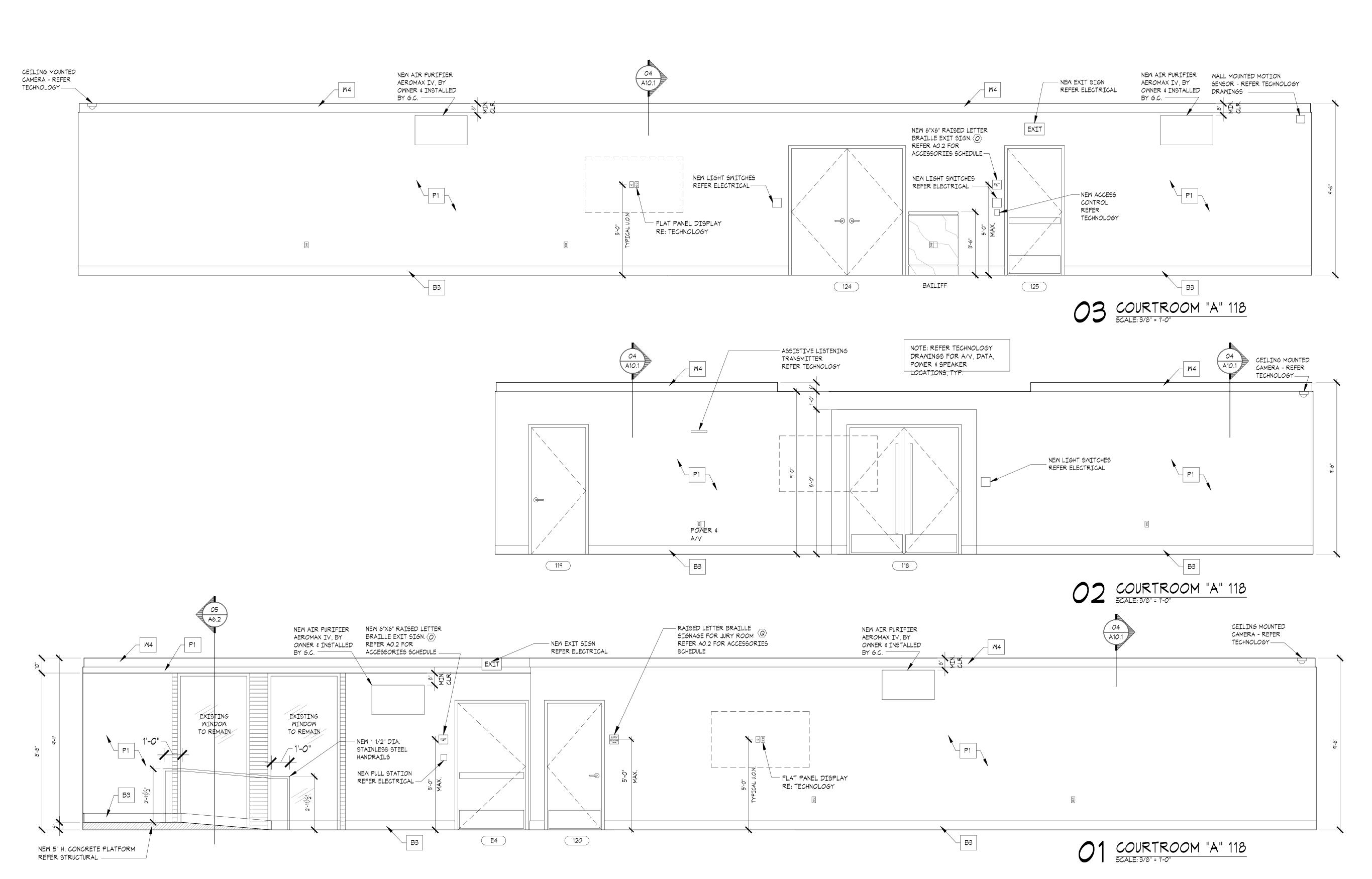
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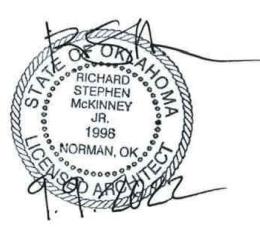
Sheet Title: INTERIOR ELEVATIONS





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Issue Date:

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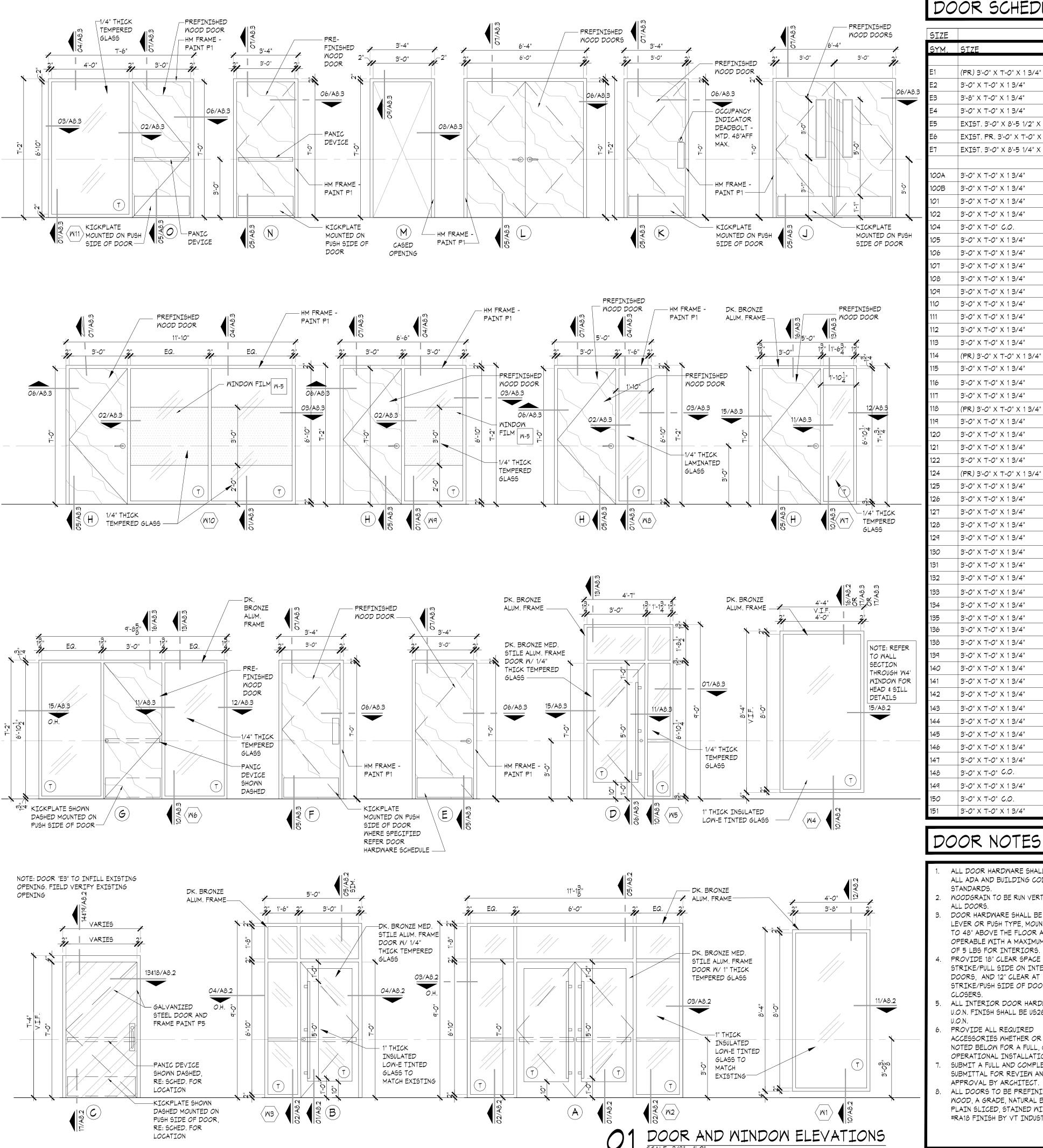
Revisions:

Project Number:

Sheet Title:
INTERIOR ELEVATIONS

Sheet Number:

A7.6



DOOR SCHEDULE

SYM E1	1. SIZE	TYPE							
-			MATERIALS	FIN. / LABEL	TYPE/FIN.	HEAD	JAMB	NUMBER	
-									
EΩ	(PR) 3'-0" X 7'-0" X 1 3/4"	A	ALUM./GLS.	DK. BRONZE	ALUM./DK. BRONZE	05/A8.2	03/A8.2	1.0	TIMER LOCK/UNLOCK
E2	3'-0" X 7'-0" X 1 3/4"	В	ALUM./GLS.	DK. BRONZE	ALUM./DK. BRONZE	05/A8.2	04/A8.2	2.0	TIMER LOCK/UNLOCK/ADA
E3	3'-8" X 7'-0" X 1 3/4"	C	HM GALV.	PAINT P5	HM GALV./PAINT P5	14/A8.2	13/A8.2	3.0	
E4	3'-0" X 7'-0" X 1 3/4"	C	HM GALV.	PAINT P5	HM GALY./PAINT P5	19/A8.2	18/A8.2	4.0	ALARMED EXIT ONLY
E5	EXIST. 3'-0" X 8'-5 1/2" X 1 3/4"	-	EXISTING	PAINT P5	EXISTING/PAINT P5	-	-	5.0	ACCESS CONTROLLED
E6	EXIST. PR. 3'-0" X 7'-0" X 1 3/4"	-	EXISTING	PAINT P5	EXISTING/PAINT P5	-	-	5.0	
E7	EXIST. 3'-0" X 8'-5 1/4" X 1 3/4"	-	EXISTING	PAINT P5	EXISTING/PAINT P5	-	-	5.0	ACCESS CONTROLLED
1004	3'-0" X 7'-0" X 1 3/4"	D	ALUM./GLS.	DK. BRONZE	ALUM./DK. BRONZE	09/A8.2	08/A8.2	6.1	
100E	3'-0" X 7'-0" X 1 3/4"	D	ALUM./GLS.	DK. BRONZE	ALUM./DK. BRONZE	09/A8.2	08/A8.2	6.0	
101	3'-0" X 7'-0" X 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	7.0	ACCESS CONTROLLED
102	3'-0" X 7'-0" X 1 3/4"	K	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	8.0	
104	3'-0" X 7'-0" C.O.	М	-	-	HM/PAINT P1	09/A8.3	08/A8.3	-	CASED OPENING
105	3'-0" X 7'-0" X 1 3/4"	G	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	9.0	EXIT ONLY
106	3'-0" × 7'-0" × 1 3/4"	G	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	11.0	
107	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	10.0	ACCESS CONTROLLED
108	3'-0" X 7'-0" X 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	18.0	
109	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	12.1	
110	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	12.1	
111	3'-0" X 7'-0" X 1 3/4"	F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.0	
112	3'-0" X 7'-0" X 1 3/4"	F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.0	
113	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	17.1	
114	(PR) 3'-0" X 7'-0" X 1 3/4"	J	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	14.0	
115	3'-0" X 7'-0" X 1 3/4"	H	MOOD	PREFIN. STAIN	ALUM./DK. BRONZE	16/A8.3	15/A8.3	17.1	
116	3'-0" × 7'-0" × 1 3/4"	F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.0	
117	3'-0" × 7'-0" × 1 3/4"	F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.0	
118	(PR) 3'-0" X T'-0" X 1 3/4"	J	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	14.0	
119	3'-0" × 7'-0" × 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	15.2	
120	3'-0" × 7'-0" × 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.1	
121	3'-0" X 7'-0" X 1 3/4"	F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.1	
122	3'-0" X 7'-0" X 1 3/4"	K	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	8.0	
124	(PR) 3'-0" X 7'-0" X 1 3/4"	L	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	16.0	
125	3'-0" X 7'-0" X 1 3/4"	N	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	7.1	ACCESS CONTROLLED
126	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
127	3'-0" × 7'-0" × 1 3/4"	0	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	6.2	
128	3'-0" X 7'-0" X 1 3/4"	Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
129	3'-0" × 7'-0" × 1 3/4"	Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
130	3'-0" × 7'-0" × 1 3/4"	Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	17.0	
131	3'-0" × 7'-0" × 1 3/4"	Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
132	3'-0" X 7'-0" X 1 3/4"	Н Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
133	3'-0" X 7'-0" X 1 3/4"	Н Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
134	3'-0" X 7'-0" X 1 3/4"	H H	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
135	3'-0" X 7'-0" X 1 3/4"	H H	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
136	3'-0" X 7'-0" X 1 3/4"	K	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	8.0	
138	3'-0" × 7'-0" × 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	15.0	
139	3'-0" X 7'-0" X 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	19.0	ACCESS CONTROLLED
140	3'-0" X 7'-0" X 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	19.1	ACCESS CONTROLLED
141	3'-0" X 7'-0" X 1 3/4"	E	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	15.0	45 MIN RATED DOOR
142	3'-0" X 7'-0" X 1 3/4"	F F	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	13.0	IN THE NATIONAL DOOR
143	3'-0" X 7'-0" X 1 3/4"	Н 'н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3		
144	3'-0" X 7'-0" X 1 3/4"	Н Н	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
145	3'-0" X 7'-0" X 1 3/4"		-	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	
145			MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	15.1	ACCESS CONTROLLED
	3'-0" X 7'-0" X 1 3/4"	H	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	19.0	, NOLDS CONTROLLED
147	3'-0" X 7'-0" X 1 3/4" 3'-0" X 7'-0" C.O.	H	MOOD	I NEI IN. SIAIN	HM/PAINT P1	09/A8.3	08/A8.3	15.1	
		M	- INIOOD	PREETNI CTATNI	HM/PAINT P1	07/A8.3	06/A8.3	-	CASED OPENING
149	3'-0" X 7'-0" X 1 3/4"	K	MOOD	PREFIN. STAIN	HM/PAINT P1			8.0	
150	3'-0" X 7'-0" C.O.	M H	-	DDEETN CTATU		09/A8.3	08/A8.3	-	CASED OPENING
151	3'-0" X 7'-0" X 1 3/4"	H	MOOD	PREFIN. STAIN	HM/PAINT P1	07/A8.3	06/A8.3	12.0	

DOOR NOTES

WINDOW SCHEDULE

	001110120
1.	ALL DOOR HARDWARE SHALL MEET ALL ADA AND BUILDING CODE STANDARDS.
2.	WOODGRAIN TO BE RUN VERTICAL AT ALL DOORS.
3.	DOOR HARDWARE SHALL BE THE LEVER OR PUSH TYPE, MOUNTED 34" TO 48" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS FOR INTERIORS.
4.	PROVIDE 18" CLEAR SPACE AT STRIKE/PULL SIDE ON INTERIOR DOORS, AND 12" CLEAR AT STRIKE/PUSH SIDE OF DOORS W/ CLOSERS.
5.	ALL INTERIOR DOOR HARDWARE, U.O.N. FINISH SHALL BE US26D/626 U.O.N.
6.	
7.	SUBMIT A FULL AND COMPLETE SUBMITTAL FOR REVIEW AND

RTICAL AT	
BE THE	M2
UNTED 34" LAND BE	M3
UM EFFORT 5.	M4
E AT TERIOR T	M5
OORS W/	M6
RDWARE, 26D/626	W7
R NOT	M8
., COMPLETE TON.	Ma
LETE AND	W10
NISHED . BIRCH,	W11
NITH RAVINE	

L MEET	MARK	LOC
TICAL AT	M1	EXTE
THE	M2	EXTE
NTED 34" AND BE	M3	EXTE VEST
M EFFORT	M4	EXTE
AT ERIOR	M5	INTE
DRS M/	M6	INTE EXIT
DWARE, 16D/626	(MT)	INTE:
RNOT	(BM)	HOLD
COMPLETE ON.	Ma	INTE OFFI
ETE ND	W10	INTE
ISHED BIRCH,	W11	INTER VEST
ITH RAVINE TRIES.	W12	RECE 103
	M13	PAY 9

MA	\RK	LOCATION	SIZE	MATERIAL	REMARKS
[V	N1	EXTERIOR	4'-4" × 8'-4" ± V.I.F.	TUBELITE T14000 - 2" X 4 1/2"	1" INSUL. LOW E TINTED TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
	N2	EXTERIOR	11'-1 3/8" X 9'-0" ± V.I.F.	TUBELITE T14000 - 2" X 4 1/2"	1" INSUL. LOW E TINTED TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(N	N3	EXTERIOR VESTIBULE	5'-0" X 9'-0" ± V.I.F.	TUBELITE T14000 - 2" X 4 1/2"	1" INSUL. LOW E TINTED TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(N	N4	EXTERIOR	4'-0" X 8'-4" ± V.I.F.	TUBELITE T14000 - 2" X 4 1/2"	1" INSUL. LOW E TINTED TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(N	N5	INTERIOR VESTIBULE	4'-7" X 9'-0" ± V.I.F.	TUBELITE 4500 - 1 3/4" X 4 1/2"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(M	16	INTERIOR EXIT LOBBY	9'-8 5/8" X 7'-2" ± V.I.F.	TUBELITE 4500 - 1 3/4" X 4 1/2"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(r	TV TV	INTERIOR SCREENING	5'-0" X 7'-2" ± V.I.F.	TUBELITE 4500 - 1 3/4" X 4 1/2"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(N	18)	HOLDING	5'-0" X 7'-2" ± V.I.F.	HOLLOW METAL - 2" X 5 7/8"	1/4" LAMINATED GLASS - INSTALL ACCORDING TO LOCAL CODE
(M	(b)	INTERIOR OFFICE	6'-6" X 7'-2" ± V.I.F.	HOLLOW METAL - 2" X 5 7/8"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
M	10	INTERIOR CONFERENCE	11'-10" X 7'-2" ± V.I.F.	HOLLOW METAL - 2" X 5 7/8"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
(M	111	INTERIOR VESTIBULE	7'-6" X 9'-0" ± V.I.F.	HOLLOW METAL - 2" X 5 7/8"	1/4" TEMPERED GLASS - INSTALL ACCORDING TO LOCAL CODE
M	.12	RECEPTIONIST 103	CUSTOM - REFER TO PLAN & INT. ELEVS FOR DIMS	BULLET RESIST. TRANSACTION WIND., HORIZONTAL BAFFLE W/ DEAL TRAY	LEVEL 3, BULLET RESISTANT, 1 1/4" LAMINATED GLAZING
				ł	

CUSTOM - REFER TO PLAN & BULLET RESIST. TRANSACTION WIND., LEVEL 3, BULLET RESISTANT, INT. ELEVS FOR DIMS HORIZONTAL BAFFLE W/ DEAL TRAY 1 1/4" LAMINATED GLAZING

Webst pal

THE MCKINNEY PARTNERSHIP

architects

3600 West Main

405.360.1400 p

405.364.8287 f

tmparch.com

MCKINNEY

venu

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Norman,

SONORMAN, OK

Project:

orm

Norman, Oklahoma

Suite 200

73072

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CM083319

Sheet Title: DOOR AND WINDOW SCHEDULE
DOOR AND WINDOW ELEVATIONS

<mark>SET #1.0 - PR. EXT. AL</mark> Doors: E1	UMINUM MEDIUM STILE DOC	ORS AND A	ALUM. FRAME		MOOD DOOR / HM. FRA	ME	
OOOR5: E1	CFM835LI-HD1		PEMK <i>O</i>	DOORS: 101 3 HINGES, FULL MORTISE	TA2714 4-1/2"X4-1/2"	US26D	MCKINNEY
CONTINUOUS HINGE	CFM835LI-HD1 SER12	/00	PEMKO	1 RIM EXIT DEVICE, NL	6100 AU627F	630	YALE
CVR EXIT, EXIT ONLY ELR CVR EXIT, EXIT ONLY ELR	6220 EO 6220 B P S EO	630 630	YALE YALE	1 ELECTRIC STRIKE 1 CONNECTOR	9500-LBSM 2007M	630	HES HES
OFFSET DOOR PULL	RM3311-60 MTG-TYPE 12XHD MP	US32D	ROCKMOOD	1 SURFACE CLOSER	5801 TBGN134-47	689	YALE
SURFACE CLOSER THRESHOLD	5831 TBGN134-47 252x3AFG	689	YALE PEMK <i>O</i>	1 KICK PLATE 1 WALL STOP	K1050 10"X34" 4BE CSK 405	US32D US26D	ROCKMOO! ROCKMOO!
DOOR BOTTOM SWEEP	345DV		PEMKO	3 SILENCER	608-RKM		ROCKMOO
LECTROLYNX HARNESS LECTROLYNX HARNESS	QC-C003 QC-C1500P		MCKINNEY MCKINNEY	1 POWER SUPPLY	AQL		SECURITRO
CONTROLLER	782		YALE	COORDINATE VOLTAGE, OPERATIO	N AND ELECTRICAL CHARACTERISTI	CS WITH ALL RELAT	ED TRADES.
EATHERSTRIPPING BY DOOR MA				DOOR POSITION SWITCHES, RE-US	E OF EXISTING ACCESS CONTROL KE	YPAD, REQUEST TO	EXIT, WIRING
OORDINATE VOLTAGE, OPERATI	ION AND ELECTRICAL CHARACTERISTICS M	NITH ALL RELAT	TED TRADES.	AND CONNECTIONS BY SECURITY CONTR	RACTOR.		
OOR POSITION SWITCHES, LOC	K/UNLOCK TIMER, WIRING AND CONNECTION	ONS BY SECURI	TY CONTRACTOR.	OPERATION: ELECTRIC STRIKE FO	R ACCESS CONTROL. DOOR IS NORM NTROL KEYPAD, EGRESS BY PANIC C	· ·	
SH SIDE, FREE EGRESS AT ALL ARM SYSTEM. ENTRY TO VESTI	DURING THE DAY CONTROLLED BY CONTROL TIMES. PROVIDE ALL REQUIRED CONNECT: IBULE 100 AVAILABLE WITH KEY AT DOOR	IONS TO BUILD	DING FIRE	ALL TIMES.	ntrol retrad, egress by fanto c	N FUSH SIDE, I KLE	LORESS AT
· · · · · · · · · · · · · · · · · · ·	ALUMINUM MED. STILE DOC	R / ALUM	. FRAME	SET #7.1 - CORRIDOR I	NOOD DOOR / HM. FRAN	<u>1E</u>	
OOR5: E2				3 HINGES, FULL MORTISE	TA2714 4-1/2"X4-1/2"	US26D	MCKINNEY
CONTINUOUS HINGE RIM EXIT DEVICE, NL	CFM835LI-HD1 5ER12	620	PEMKO	1 RIM EXIT DEVICE, NL 1 ELECTRIC STRIKE	6100 AU627F 9500-LBSM	630 630	YALE HES
RIM EXIT DEVICE, NL OFFSET DOOR PULL	6100 P 121NL K402 RM3311-60 MTG-TYPE 12XHD MP	630 US32D	YALE ROCKWOOD	1 CONNECTOR	2007M 5801 TBGN134-47	600	HES
CONCEALED OVERHEAD STOP	1-X36	630	RIXSON	1 SURFACE CLOSER 1 KICK PLATE	5801 1 BGN134-47 K1050 10"X34" 4BE CSK	689 US32D	YALE ROCKMOOI
AUTOMATIC OPENER FHRESHOLD	6331 171A	689	NORTON PEMKO	1 WALL STOP	405	US26D	ROCKWOO!
DOOR BOTTOM SWEEP	345DV		PEMKO	1 ACOUSTICAL DOOR SEAL SET 3 SILENCER	PEMKOSTCSET-1E 608-RKM		PEMKO ROCKMOO!
ELECTROLYNX HARNESS ELECTROLYNX HARNESS	QC-C003 QC-C1500P		MCKINNEY MCKINNEY	1 POWER SUPPLY	AQL		SECURITRO
DOOR SMITCH	503		NORTON	COORDINATE VOLTAGE, OPERATIO	N AND ELECTRICAL CHARACTERISTI	CS WITH ALL RELAT	ED TRADES.
ONTROLLER RAIN GUARD	782 346D		YALE PEMK <i>O</i>		E OF EXISTING ACCESS CONTROL KE	.	
ATHERSTRIPPING BY DOOR M	ANUFACTURER.			AND		. II AU, NLQUEST TO	-//-I, MIKING
	ION AND ELECTRICAL CHARACTERISTICS M	NTTH ALL RELA	TED TRADES		R ACCESS CONTROL. DOOR IS NORM	•	
-	CON AND ELECTRICAL CHARACTERISTICS M K/UNLOCK TIMER, WIRING AND CONNECTION	-		SECURED. INGRESS BY ACCESS CO ALL TIMES.	NTROL KEYPAD, EGRESS BY PANIC C	N PUSH SIDE, FREE	EGRESS AT
PERATION: DOORS UNLOCKED D	DURING THE DAY CONTROLLED BY CONTROL N PUSH SIDE, FREE EGRESS AT ALL TIMES.	LLER AND AUTO	PMATIC	SET #8 0 - UNITARY PRA	TROOM WOOD DOOR / I	HM FRAME	
ROVIDE ALL REQUIRED CONNEC	TIONS TO BUILDING FIRE ALARM SYSTEM			DOOR5: 102, 122, 136, 149			
ET #3.0 - EXTERIOR	GALV. HM. DOOR / GALV. HI	M. FRAME		3 HINGES, FULL MORTISE, HVY WT 1 INDICATOR DEADBOLT	T4A3786 4-1/2"X4-1/2" D292	US26D 626	MCKINNEY YALE
				1 DOOR PULL 1 PUSH PLATE	111 8D MTG 70C-RKW 4BE CSK	US32D US32D	ROCKMOO ROCKMOO
HINGES, FULL MORTISE HVY WT STOREROOM LOCK	T4A3386 4-1/2"X4-1/2" NRP AU 4705LN K402	US32D 630	MCKINNEY YALE	1 SURFACE CLOSER	5801 TBGN134-47	689	YALE
SURFACE CLOSER	5831 TBGN134-47	689	YALE	1 KICK PLATE 1 WALL STOP	K1050 10"X34" 4BE C5K 405	US32D US26D	ROCKMOO ROCKMOO
THRESHOLD GASKETING	171A 290DPK		PEMK <i>O</i> PEMK <i>O</i>	1 KICK DOWN DOOR HOLDER	461	US26D	ROCKMOO
DOOR BOTTOM SWEEP	345DV 346D		PEMKO PEMKO	3 SILENCER	608-RKM		ROCKWOO
RAIN GUARD		., ED					
OOR: E4	GALV. HM. DOOR / GALV. H	M. FRAME		SET #9.0 - EXIT LOBBY DOORS: 105	MOOD DOOR / ALUM. F	RAME	
HINGES, FULL MORTISE	TA2314 4-1/2"X4-1/2" NRP	US32D	MCKINNEY	1 CONTINUOUS HINGE 1 RIM EXIT DEVICE, EO	CFM835LI-HD1 6100 EO	630	PEMK <i>O</i> YALE
HINGE, FULL MORTISE RIM EXIT DEVICE, EO	TA2314 4-1/2"X4-1/2" QC12 6100 A-ALR EO K640	US32D 630	MCKINNEY YALE	1 RIM EXIT DEVICE, EO 1 SURFACE CLOSER	6100 E0 5801 TBGN134-47	630 689	YALE
SURFACE CLOSER	5831 TBGN134-47	689	YALE	1 KICK PLATE	K1050 10"X34" 4BE C5K	US32D	ROCKMOO
「HRESHOLD SASKETING	171A 290DPK		PEMK <i>O</i> PEMK <i>O</i>	1 WALL STOP SILENCER/DOOR PILE BY ALUMINU	405 M FRAME SUPPLIER.	US26D	ROCKMOO
DOOR BOTTOM SWEEP	345DV		PEMKO		••		
RAIN GUARD ELECTROLYNX HARNESS	346D QC-C003		PEMK <i>O</i> MCKINNEY			 •	
ELECTROLYNX HARNESS POWER SUPPLY	QC-C1500P AQL		MCKINNEY SECURITRON	<u></u>	WOOD DOOR / ALUM. F	RAME	
		D A IAITH CC	SLOUKTIKON	DOORS: 107	AP(1)0001 P 11-1		
ARMED EXII ONLY. COORDINA	ATE WITH TECHNOLOGY AND ELECTRICAL D	ranings.		1 CONTINUOUS HINGE 1 STOREROOM LOCK	CFM835LI-HD1 AU 4705LN K402	626	PEMK <i>O</i> YALE
			_	1 ELECTRIC STRIKE 1 CONNECTOR	1500-LMS 2007M	630	HES HES
EI #5.0 - EXTERIOR	EXIST. HM. DOOR / EXIST.	HM FRAM	<u>=</u>	1 SURFACE CLOSER	5801 TBGN134-47	689	YALE
OORS: E5, E6, E7				1 KICK PLATE 1 WALL STOP	K1050 10"X34" 4BE C5K 405	US32D US26D	ROCKMOO ROCKMOO
OORS, FRAMES, AND HARDWARE	ARE EXISTING TO REMAIN.			1 KICK DOWN DOOR HOLDER 1 POWER SUPPLY	461 AQL	US26D	ROCKMOO SECURITRO
	ALUMINUM MED. STILE DOC	OR / ALUM	I. FRAME	SILENCER/DOOR PILE BY ALUMINU		CS WITH ALL RELAT	
00R: 100B				·	ENTIAL READER, REQUEST TO EXIT, P		
CONTINUOUS HINGE	CFM835LI-HD1		PEMKO	SECURITY	-101 AND INDIVIDEN, INDIVIDUO FOR EALT, P	THE AND COMME	0110ND D1
STRAIGHT DOOR PULLS AUTOMATIC OPENER	RM3301-60 MTG-TYPE 5HD MP BTB 6331	US32D 689	ROCKWOOD NORTON	CONTRACTOR. OPERATION: ELECTRIC STRIKE FO	R ACCESS CONTROL. DOOR IS NORN	MALLY CLOSED LAT	CHED AND
DOOR SMITCH	503	<i>00</i> 1	NORTON		R ACCESS CONTROL. DOOR 15 NORT NTROL KEYPAD, FREE EGRESS AT ALI	•	UNLU ANU
OOR SWITCH OR PILE WEATHERING BY ALUN	504 MINUM FRAME SUPPLIER.		NORTON	CET #44 A	/ IAIOOD DOOD / 11/2	-n	
. 2. 2 2. (1	. .			SET #11.0 - EXIT LOBBY	/ MOOD DOOR / ALUM. F	-RAME	
ET #6.1 - VESTIBULE	ALUMINUM MED. STILE DOO	R / ALUM.	FRAME	1 CONTINUOUS HINGE	CFM835LI-HD1		PEMKO
OOR: 100A				1 RIM EXIT DEVICE, PASSAGE 1 SURFACE CLOSER	6100 AU628F 5801 TBGN134-47	630 689	YALE YALE
CONTINUOUS HINGE	CFM835LI-HD1		PEMKO	1 KICK PLATE	K1050 10"X34" 4BE CSK	US32D	ROCKMOO
STRAIGHT DOOR PULLS	RM3301-60 MTG-TYPE 5HD MP BTB	U532D	ROCKMOOD	1 WALL STOP SILENCER/DOOR PILE BY ALUMINU	405 M FRAME SUPPLITER	US26D	ROCKMOO
BURFACE CLOSER DOR PILE WEATHERING BY ALUN	5831 TBGN134-47 MINUM FRAME SUPPLIER.	689	YALE	OTTENOTIVE DOOR I THE DI MENNITINO	VIII OVIII ELEIN.		
				SET #12.0 - OFFICE MC	OD DOOR / HM. FRAME		
				DOORS: 126, 128, 129, 131-135, 143, 1			
		, -		2 HTMCEG EN L MORTTGE	TA2714 4-1/2"X4-1/2"	US26D	MCKINNEY
T #6 2 - VFSTTRIII F	- WOOD DOOR / ALIM FRAM	1 -		3 HINGES FULL MORTISE	1 A 2 1 A 4 - 1/2 A 4 - 1/2	VJ20D	1 10 11 11 11
	MOOD DOOR / ALUM. FRAM	<u>1</u> E		1 ENTRY LOCK	AU 4707LN K402	626	YALE
ET #6.2 - VESTIBULE OOR: 127	MOOD DOOR / ALUM. FRAM	<u>1</u> E	MCKINNEY				-

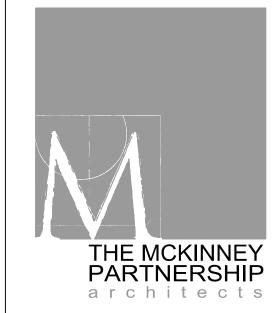
MCKINNEY YALE YALE ROCKWOOD ROCKWOOD ROCKWOOD

US26D 630 689 US32D US26D

3 HINGE, FULL MORTISE
1 RIM EXIT DEVICE, PASSAGE
1 SURFACE CLOSER
5801 TBGN134-47
1 KICK PLATE
1 WALL STOP
3 SILENCER
DOOR PILE WEATHERING BY ALUMINUM FRAME SUPPLIER.

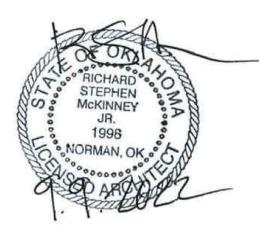
IBMIRY LOCK AU 410TIN K402 626 YALE IACOUSTICAL DOOR SEAL SET PENKOSTOSET-'E PENKOSTOSET-'E STLENCER 608-RKW ROCKMOO	SET #12.1 - JURY, PRO DOORS: 109, 110, 120	SECUTOR / HM. FRAME		
1.ACUBITCAL DOOR BEAL SET	1 ENTRY LOCK	AU 4707LN K402	626	
SELENCER			US26D	
DOORS- 171, 112, 116, 117, 142				ROCKWOOI
\$ HINGES, FULL MORTISE, MY MIT 14A3766 4-1/27/4-1/2* US260 MCKINNEY IDOOR PILL 11 SD MT6 US320 ROCKNOO 70C-RKW 4BE C6K US320 ROCKNOO 70C-RKW 4BE C6K US320 ROCKNOO 70C-RKW 4BE C6K US320 ROCKNOO 1 SURFACE CLOSER SOIT TEGNISH-11 864 YALE 12 KICSO 10784 4BE C5K US320 ROCKNOO 1 SURFACE CLOSER SOIT TEGNISH-11 865 YALE 12 ROCKNOO R		M WOOD DOOR / HM. FRAME	<u> </u>	
IDDOR PILL		T T43 010 (4 4 / 01) (4 4 / 01)	HCOCD	
PJBH PLATE				MCKINNEY ROCKWOOI
NECK PLATE	1 PUSH PLATE	70C-RKW 4BE CSK	US32D	ROCKMOOI
AMALL STOP				
SELENCER SELENCER SELENCER SELENCER SELENCER SOCRACO ROCKARD	-			
SET #13.1 - RESTROOM VESTIBULE WOOD DOOR / HM. FRAME DOORS: 121 I HINGES FULL MORTISE	1 KICK DOWN DOOR HOLDER	461		ROCKMOOI
DOORS:121 I HINGES FILL MORTISE			/ 1 16 / FO 3 6	, -
IDDOR PILLE		M VESTIBULE MOOD DOOR /	HM. FRAN	<u>1E</u>
PUBH PLATE	1 HINGES, FULL MORTISE	TA2714 4-1/2"X4-1/2"	US26D	MCKINNEY
KICK PLATE				ROCKMOOI
MALL 510P				
1 KTCK DONN DOOR HOLDER 461 9 STLENGER 602-RKM 800-RKM				ROCKMOO
SET #14.0 - COURTROOM PR. WOOD DOORS / HM. FRAME DOORS: 1'4, 116				ROCKMOO
DOORS: 114, 116 DOORS: 114 DOORS	3 SILENCER	608-RKM		ROCKWOO
2 CONTENIOUS HINGE	SET #14.0 - COURTRO	OM PR. WOOD DOORS / HM.	FRAME	
4 STRATGHT DOOR PULLS SB17 TAGCK LOSER 5831 T86N134-17 684 7 KLCK PLATE KIOSO 10734-14BE C5K 1 SOUND GASKETING 1 SOUND GASKETING 1 KTICK DOWN DOOR HOLDER 608-RKN SET #15.0 - ELEC. / STORAGE WD. DOOR / HM. FRAME DOORS: 136, 141 3 HINGES FULL MORTISE 1 KTICK LOSER 5 S01 TB6N134-41 3 HINGES FULL MORTISE 1 KTICK LOSER 5 S02-RKN ROCKWOO SET #15.1 - HOLDING WD. DOOR / HM. FRAME DOORS: 145, 147 3 HINGES FULL MORTISE 1 SOURCEACH COK AU 4705LN K402 5 SILENCER 5 S02-RKN 5 S03-RKN 6 S03 6 S04-RKN 6 S05 6 S06-RKN 6 S07 6 S06-RKN 6 S06-RKN 6 S07 6 S06-RKN 7 S06-RKN 7 S06-RKN 7 S06-RKN 7 S06-RKN 8 S06-RKN	DOORS: 114, 118			
2 SURFACE CLOSER			110000	
2 KICK PLATE				
1 50/IND GASKETING 2 ACOUSTICAL DOOR SEAL SET 1 KICK DOWN DOOR HOLDER 461 2 SILENCER SET #15.0 - ELEC. / STORAGE WD. DOOR / HM. FRAME DOORS: 138, 141 3 HINGES FULL MORTISE 1 KICK PLATE 1 KICK PLATE 1 KICK PLATE 1 KICK DOWN LOCK 40 4105LN K402 1 SURFACE CLOSER 5201 TB6NIS4-47 1 KICK PLATE				
2 ACQUSTICAL DOOR SEAL SET PEMKOSTOSET 1E 1 KICK DOWN DOOR HOLDER 461 1			03325	
2 SILENCER 608-RKW SET #15.0 - ELEC. / STORAGE WD. DOOR / HM. FRAME DOORS: 138, 141 3 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 KTCK PLATE K1050 10*X34* 4BE CSK US32D ROCKWOO 1 MALL STOP 405 US26D ROCKWOO 3 SILENCER 608-RKW 689 ROCKWOO SET #15.1 - HOLDING WD. DOOR / HM. FRAME DOORS: 145, 147 3 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 CONCEALED OVH STOP 1-X36 690 RIXSON SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 CONCEALED OVH STOP 1-X36 690 RIXSON ROCKWOO SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 NALL STOP 405 US26D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 2 ROLLER CATCHES 512 US26D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2*X4-1/2* US26D MCKINNEY 2 ROLLER CATCHES 512 US26D ROCKWOO 2 DUMMY TRIM AU 4655LN 626 YALE 2 DUMMY TRIM AU 4655LN 626 RIXSON				
SET #15.0 - ELEC. / STORAGE WD. DOOR / HM. FRAME DOORS: 138, 141 3 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 SURFACE CLOSER 5801 TBGN134-41 626 YALE 1 KICK PLATE K1050 10"X34" 4BE C5K U532D ROCKWOO 3 SILENCER 608-RKW 689 ROCKWOO 3 SILENCER 608-RKW 689 ROCKWOO SET #15.1 - HOLDING WD. DOOR / HM. FRAME DOORS: 145, 147 3 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 CONCEALED OVH STOP 1-X36 608-RKW ROCKWOO SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D ROCKWOO SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D ROCKWOO SET #15.0 - PR. STORAGE WO. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WO. DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WO. DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WO. DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D MCKINNEY 15 STOREROOM LOCK AU 4705LN K402 U526D ROCKWOO SET #16.0 - PR. STORAGE WO. DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2T14 4-1/2"X4-1/2" U526D MCKINNEY 2 ROLLER CATCHES 592 U526D ROCKWOO 2 DUMMY TRIM AU 4655LN 626 YALE 2 OVERHEAD 5TOP 55-X36 552 RIX5ON	-		U526D	ROCKWOO
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1 MALL STOP				
3 SILENCER 608-RKW 689 ROCKWOO SET #15.1 - HOLDING WD. DOOR / HM. FRAME DOORS: 145, 147 3 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 CONCEALED OVH STOP 1-X36 630 RIXSON 3 SILENCER 608-RKW ROCKWOO SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 WALL 5TOP 405 U526D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE MOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE MOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE MOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE MOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D ROCKWOO SET #16.0 - PR. STORAGE MOOD DOORS / HM. FRAME				
SET #15.1 - HOLDING WD. DOOR / HM. FRAME DOORS: 145, 147 3 HINGES FULL MORTISE				
### DOORS: 145, 147 3 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 CONCEALED OVH STOP 1-X36 630 RIXSON ROCKWOO SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" US26D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 WALL STOP 405 US26D ROCKWOO ROCKWOO SILENCER 608-RKW US26D ROCKWOO SILENCER 608-RKW US26D ROCKWOO SILENCER 608-RKW US26D ROCKWOO SILENCER 608-RKW US26D ROCKWOO SILENCER 612 US26D ROCKWOO SILENCER 614 AU 4655LN 626 YALE 615 SILENCER 626	3 SILLNOLK	000-NRM	009	ROOKNOO
1 STOREROOM LOCK 1 CONCEALED OVH STOP 3 STLENCER 608-RKM		MD. DOOR / HM. FRAME		
1 CONCEALED OVH STOP 3 STLENCER 608-RKW 608-RKW 608-RKW 608-RKW SET #15.2 - STORAGE WD. DOOR / HM. FRAME DOORS: 119 3 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D MCKINNEY 1 STOREROOM LOCK AU 4705LN K402 626 YALE 1 WALL STOP 405 U526D ROCKWOO 3 STLENCER 608-RKW ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D MCKINNEY 2 ROLLER CATCHES 592 U526D ROCKWOO 2 DUMMY TRIM AU 4655LN 626 YALE 2 OVERHEAD STOP 55-X36 652 RIX5ON				MCKINNEY
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1 WALL STOP 405 3 SILENCER 608-RKW ROCKWOO SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" US26D MCKINNEY 2 ROLLER CATCHES 592 US26D ROCKWOO 2 DUMMY TRIM AU 4655LN 626 YALE 2 OVERHEAD STOP 55-X36 652 RIXSON				
3 SILENCER 608-RKW SET #16.0 - PR. STORAGE WOOD DOORS / HM. FRAME DOORS: 124 6 HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" US26D MCKINNEY 2 ROLLER CATCHES 592 US26D ROCKWOO 2 DUMMY TRIM AU 4655LN 626 YALE 2 OVERHEAD STOP 55-X36 652 RIXSON				
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2 DUMMY TRIM AU 4655LN 626 YALE 2 OVERHEAD STOP 55-X36 652 RIXSON				
2 OVERHEAD STOP 55-X36 652 RIXSON				
			032	

PASSASE_ATCH AJ 470 IN K402 628	DOOR5: 130			
SURPLACE CLOSER SOI TESNISH-41 B95	3 HINGES FULL MORTISE 1 PASSAGE LATCH	TA2714 4-1/2"X4-1/2" AU 4701LN K402	US26D 626	MCKINNEY YALE
### ### ##############################	1 SURFACE CLOSER		689	YALE
DET #17.1 - CONFERENCE WD. DOOR / HM. FRAME DOORS: 113, 115 DETINGS FULL MORTISE TA2714 4-1/2/X4-1/2* U526D MCKINNE PASSAGE LATCH AJ 470 LN K402 626 7ALE SURFACE CLOSER 560 1 ESH34-41 664 7ALE WALL STOP 405 U526D ROCKAN ACOUSTICAL DOOR SEAL SET PENKOG*CSET-1E 608-RKA ROCKAN DET #18.0 - COURT B WD. DOOR / HM. FRAME DOORS: 108 DET #18.0 - COURT B WD. DOOR / HM. FRAME DOORS: 108 DET #18.0 - COURT B WD. DOOR / HM. FRAME DOORS: 108 DET #18.0 - COURT B WD. DOOR / HM. FRAME DOORS: 108 DET #18.0 - COURT B WD. DOOR / HM. FRAME DOORS: 108 DET #19.0 - LATCH AJ 4708LN K402' 1526 WCKINNE CLASSROOM LATCH AJ 4708LN K402' 1526 YALE 84.0015TICAL DOOR SEAL SET 860 HSNA-41 668 YALE 84.0015TICAL DOOR SEAL SET 860 HSNA-41 668 YALE 84.0015TICAL DOOR SEAL SET 860 HSNA-41 668 YALE 85.5ET #19.0 - LT/OFFICERS WD. DOOR / HM. FRAME DOORS: 191, 146 DETINES BULL MORTISE 162 HAVE YALE 868 HSNA-868			U526D	
### PASSAGE LATCH MORTISE TA2TIM 4-1/2" US26D MCKINNE PASSAGE LATCH AU 470'LN K402 626 YALE Y		UUU-NNYY		NOOKNOC
PASSAGE LATCH	SET #17.1 - CONFERENCE DOORS: 113, 115	CE MD. DOOR / HM. FRA	<u>ME</u>	
SURFACE CLOSER SECT TBONISH-4-7 658	3 HINGES FULL MORTISE			MCKINNEY
AUL STOP				
STENCER 608-RKM ROCKMO	1 WALL STOP			ROCKMOC
DOORS 108 DOOR / HM, FRAME	1 ACOUSTICAL DOOR SEAL SET			PEMKO
### BINGES FULL MORTISE	3 SILENCER	608-RKM		ROCKMO
CLASSROOM LATCH AU 4106LN K402 526 YALE SURFACE CLOSER 5801 TB6N134-47 689 YALE KICK PLATE K1050 10°X34" 4BE C5K U532D ROCKNO MALL 510P 405 U526D ROCKNO ACOUSTICAL DOOR SEAL SET PEMKOSTCSET-IE STOREROOM LOOR SEAL SET PEMKOSTCSET-IE SOORS; 139, 146 B HINGES FULL MORTISE TA2114 4-1/2°X4-1/2" U526D MCKINNE SURFACE CLOSER 5801 10°X34" 4BE C5K U532D ROCKNO SITENCER 60°C-RKW ROCKNO B HINGES FULL MORTISE TA2114 4-1/2°X4-1/2" U526D MCKINNE STOREROOM LOCK AU 4105LN K402 626 YALE ELECTRIC STRIKE 1500-LMS 630 HES SURFACE CLOSER 5801 TB6N134-47 699 YALE KICK PLATE K1050 10°X34" 4BE C5K U532D ROCKNO WALL 510P 405 U526D ROCKNO POWER SUPPLY AQL SECURITY COORDINATE VOLTAGE, OPERATION AND ELECTRICAL CHARACTERISTICS WITH ALL RELATED TRADES. DOOR POSITION SWITCHES, CREDENTIAL READER, REQUEST TO EXIT, WIRING AND CONNECTIONS BY SECURITY CONTRACTOR. DPERATION: ELECTRIC STRIKE FOR ACCESS CONTROL. DOOR IS NORMALLY CLOSED, LATCHED AND SECURITY CONTRACTOR. DPERATION: ELECTRIC STRIKE FOR ACCESS CONTROL. DOOR IS NORMALLY CLOSED, LATCHED AND SECURITY CONTRACTOR. DPERATION: ELECTRIC STRIKE FOR ACCESS CONTROL. DOOR IS NORMALLY CLOSED, LATCHED AND SECURITY CONTRACTOR. DPERATION: ELECTRIC STRIKE FOR ACCESS CONTROL. DOOR IS NORMALLY CLOSED, LATCHED AND SECURED. INGRESS BY ACCESS CONTROL KEYPAD, FREE EGRESS AT ALL TIMES. B HINGES FULL MORTISE TA2714 4-1/2"X4-1/2" U526D MCKINNE STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402 526 YALE ELECTRIC STRIKE 1500-LMS 630 HES STOREROOM LOCK AU 4105LN K402	SET #18.0 - COURT B 1 DOORS: 108	ND. DOOR / HM. FRAME		
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3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f tmparch.com

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Project:

City of Norman lunicipal Complex Renovati Municipal Court 321 N. Webster Avenue Norman, OK

Issue Date:
11/15/22 ISSUED FOR BIDDING

Revisions:

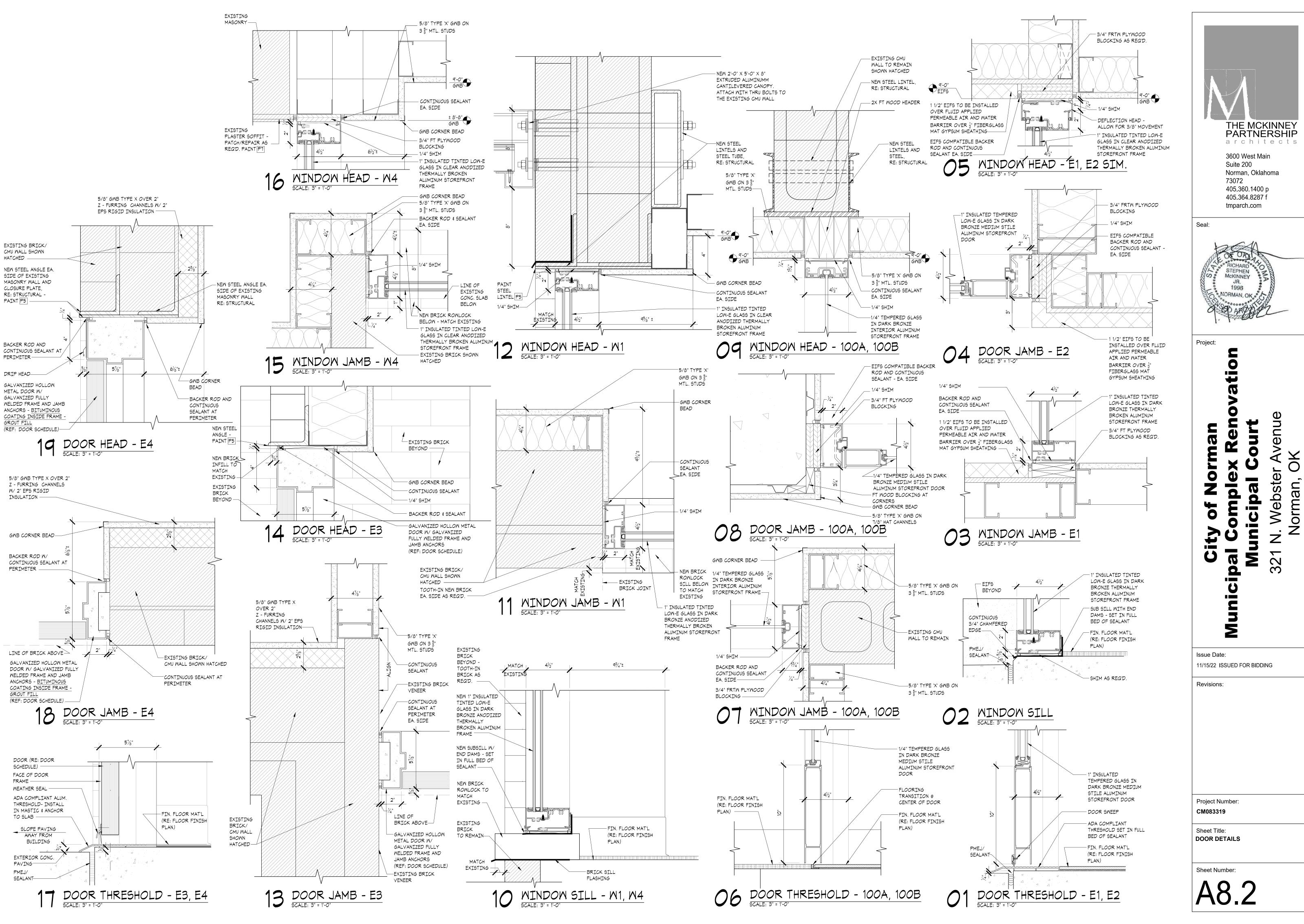
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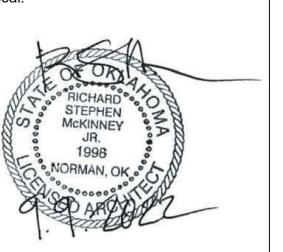
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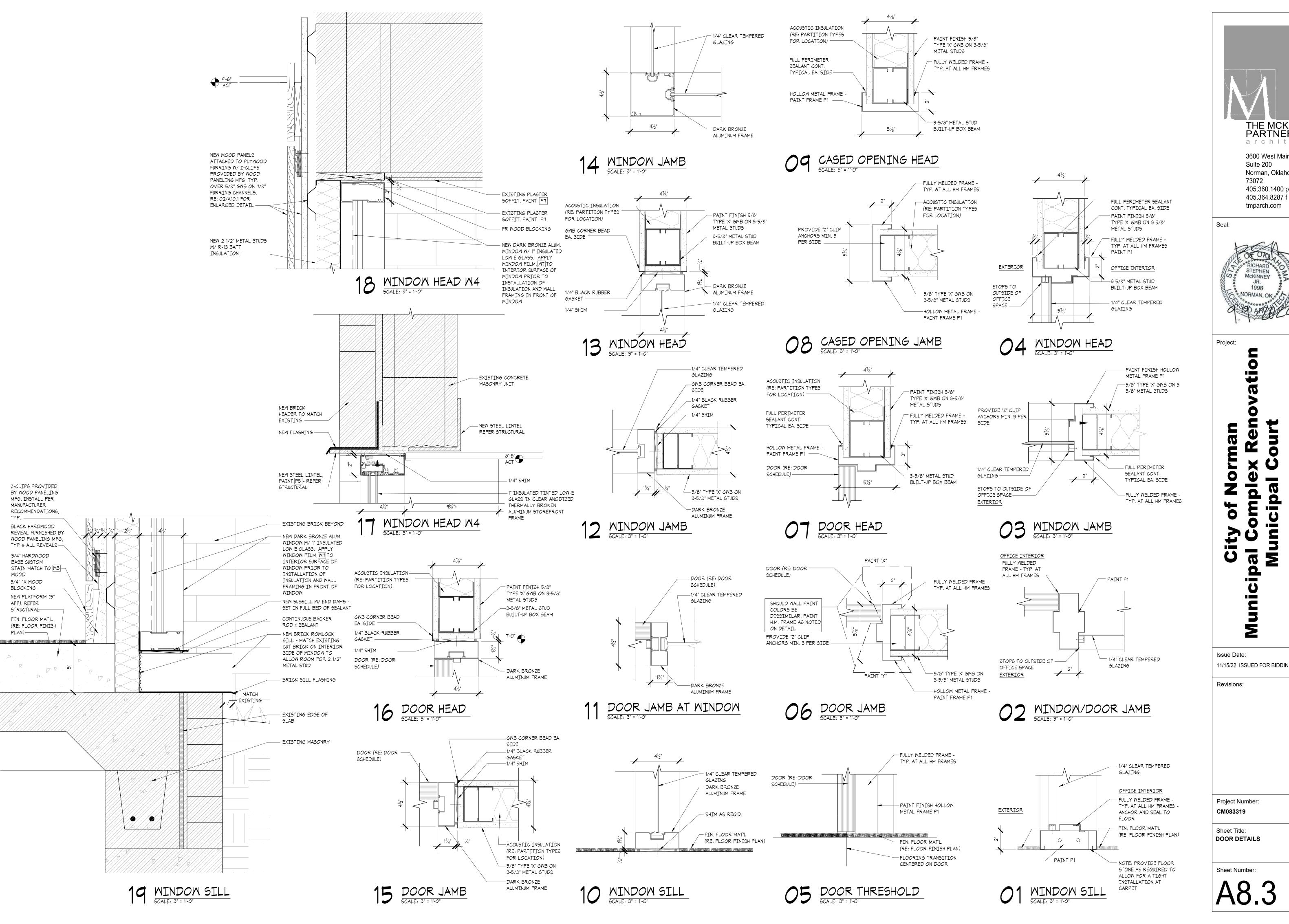
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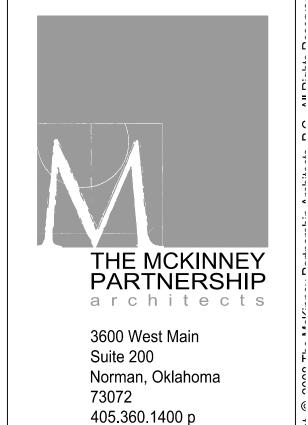
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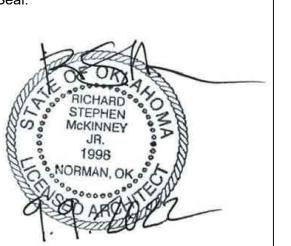








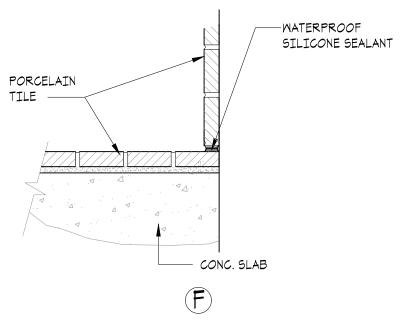


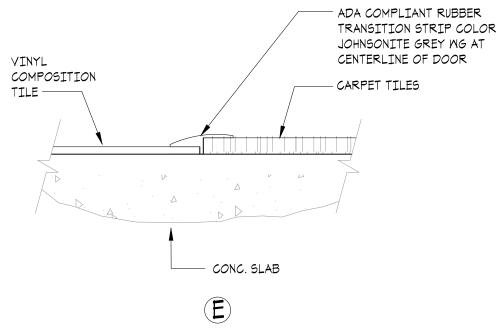


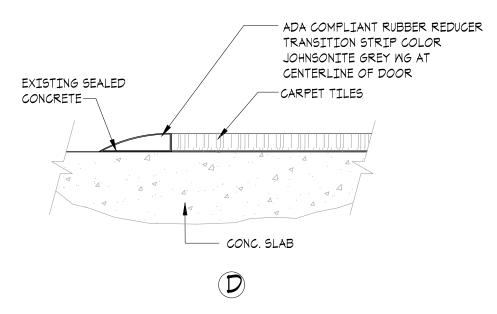
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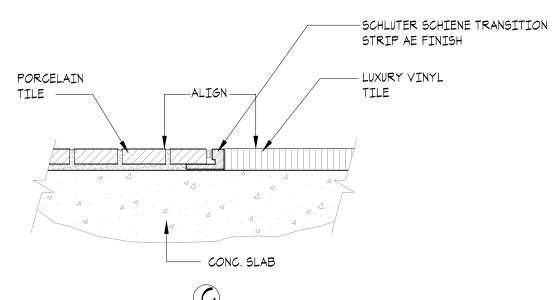
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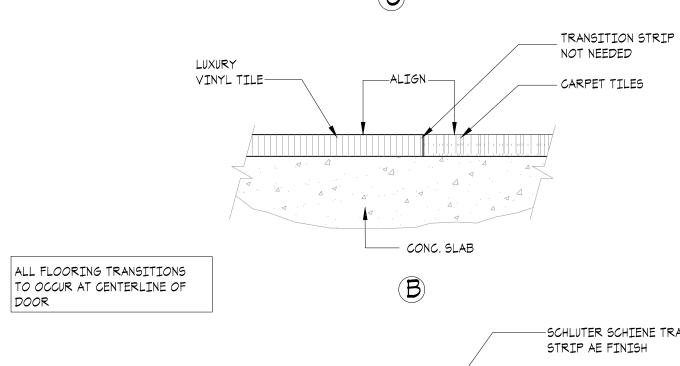
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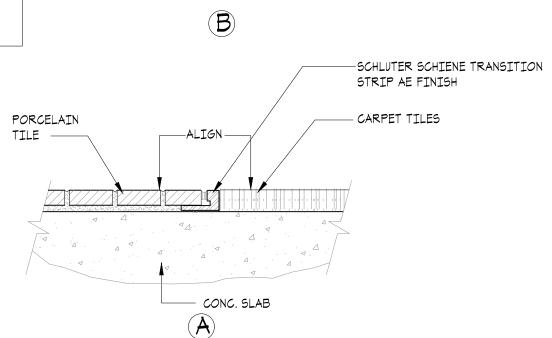












02 STAIR NOSING DETAIL
SCALE: HALF SCALE

-JOHNSONITE STAIR NOSING VCD COLOR WG

-CARPET TILE F12 & F14

RAISED CONCRETE
PLATFORM
RE: STRUCTURAL

48 GRAY

CARPET TILE F12 & F14

01 FLOOR TRANSITION DETAILS

MATERIAL FINISH NOTES

- 1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PREPARATION OF ALL NEW AND EXISTING SURFACES IN A SATISFACTORY MANNER TO RECEIVE NEW FINISHES. THIS INCLUDES THE DEMOLITION AND REMOVAL OF NECESSARY ITEMS. TOUCH-UP AND/OR REFINISH OF SURFACES DAMAGED BY SUBSEQUENT WORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. THE GENERAL CONTRACTOR SHALL PREPARE THE FLOOR PRIOR TO THE APPLICATION OF FINISH FLOORING. THE CONCRETE SLAB MUST BE SMOOTH AND LEVEL TO WITHIN A TOLERANCE OF ONE-EIGHTH INCH PER FOOT. LATEX CEMENT PATCHING COMPOUND SHALL BE UTILIZED (NO ASPHALT BASED COMPOUNDS).
- 2. ALL SURFACES WHICH ARE TO RECEIVE A PAINT FINISH SHALL BE PRIMED AND FINISHED IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS.
- ALL JOINTS IN GYPSUM BOARD WALLS SHALL BE FINISHED WITH PAPER TAPE 2" WIDE AND THREE COATS OF VINYL, DRY OR PREMIXED JOINT COMPOUND. ALL OUTSIDE CORNERS SHALL BE FINISHED WITH METAL CORNER BEADS, TAPED AND SPACKLED. JUST PRIOR TO THE APPLICATION OF THE FIRST COAT OF PAINT, WIPE SANDED SURFACES WITH A DAMP CLOTH IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN SANDING.
- FINISH FLOORING INSTALLATION SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES. COORDINATE THE INSTALLATION WITH OTHER TRADES, SUCH AS ELECTRICAL.
- 5. ALL JOINTS BETWEEN MATERIALS TO BE TIGHT AND CONSTRUCTED IN A NEAT WORKMANLIKE MANNER.
- ALL FINISHES SHALL BE TOUCHED UP TO CORRECT ANY IMPERFECTIONS AFTER INSTALLATION.
 FIXTURE CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL MATERIALS FOR TOUCH
 UP WORK.
- THE INTENT OF THE FINISH SPECIFICATION IS TO PROVIDE A SATISFACTORY FINISH TO ALL PARTS OF THE WORK. COVER ALL SURFACES THOROUGHLY. IF THE SPECIFIED NUMBER OF COATS DOES NOT ACCOMPLISH THE INTENT, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPLICATION OF ADDITIONAL COATS OF THE SPECIFIED MATERIAL TO GIVE SATISFACTORY COVERAGE.
- 8. UPON COMPLETION OF CARPET INSTALLATION, PROVIDE (10) EXTRA TILES OF EACH TYPE.
- . UPON COMPLETION OF PAINTING, PROVIDE NOT LESS THAN ONE GALLON OF EACH COLOR OF EACH FINISH USED, LABELED M/ FINISH DESIGNATIONS INDICATED ON FINISH SCHEDULE.
- 10. UPON COMPLETION, PROVIDE (1) FULL BOX OF EXTRA CEILING TILES.
- 11. CLEAN ALL GLASS SURFACES WITH LIQUID DETERGENT AT PROJECT COMPLETION.
- 12. ALL WALLS AND CEILNGS TO BE PAINTED P1, U.O.N.
- 13. ALL HM FRAMES AND DOORS TO BE PAINTED P1, U.O.N.
- 14. ALL RUBBER ACCESSORIES TO BE JOHNSONITE COLOR GREY WG 48.
- 15. ALL PORCELAIN & CERAMIC TILE JOINTS TO BE MAX 1/8".
- 16. UPON COMPLETION OF LYT INSTALLATION, PROVIDE (20) EXTRA TILES OF EACH TYPE.

FI	NISH SC	HEDULE	
MARK	MATERIAL	MANUFACTURER	DESCRIPTION/CATALOG NO.
F1	LUXURY VINYL TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: SOUNDSCAPE COLOR: INK 63549 SIZE: 6" X 48" INSTALLATION: STAGGER
F2	WALK OFF CARPET TILE	SHAM CONTRACT GROUP LISA TODD 405-850-2932	STYLE: STEPPIN OUT ENTREE TILE COLOR: STERLING 31557 SIZE: 24" X 24" INSTALLATION: QUARTER TURN
F3	PORCELAIN TILE	ELEGANZA TILE CHRIST BOTELLO 405-412-5406	STYLE: ELEGANZA TILE NOVA, MATTE FINISH SIZE: 12" X 24" COLOR: SILVER INSTALLATION: STACK BOND GROUT: LATICRETE 89 SMOKE GREY
F4	SEALED CONCRETE	SHERWIN MILLIAMS	H&C HYDRO DEFEND CONCRETE & MASONRY WATERPROOF CLEAR SEALER
F5	VINYL COMP. TILE	ARMSTRONG FLOORING ANGELA DITMORE 469-978-4058	12"X12" STANDARD EXCELON TILE COLOR: 51861 SOFT WARM GRAY
F6	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: ASSEMBLY COLLECTION CONVENE TILE COLOR: RADIANT LINK 64556 SIZE: 12" X 48" INSTALLATION: REFER PLAN
F7	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: ASSEMBLY COLLECTION CONVENE TILE COLOR: CLEAR LINK 67558 SIZE: 12" X 48" INSTALLATION: REFER PLAN
F8	NOT USED		
F9	NOT USED		
F10	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: ASSEMBLY COLLECTION ESTABLISH TILE COLOR: LINK 67555 SIZE: 12" X 48" INSTALLATION: REFER PLAN
F11	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: LIVING SYSTEMS COLLECTION OBSERVE COLOR TILE COLOR: WILD FLORA 05411 SIZE: 9" X 36" INSTALLATION: REFER PLAN
F12	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932	STYLE: LIVING SYSTEMS COLLECTION OBSERVE TILE COLOR: WILD 05557 SIZE: 9" X 36" INSTALLATION: REFER PLAN
F13	CARPET TILE	SHAW CONTRACT GROUP LISA TODD 405-850-2932 SHAW CONTRACT GROUP	STYLE: LIVING SYSTEMS COLLECTION TRANSFORM COLOR TILE COLOR: WILD FLORA 05411 SIZE: 9" X 36" INSTALLATION: REFER PLAN STYLE: LIVING SYSTEMS COLLECTION TRANSFORM TILE
F14	CARPET TILE	LISA TODD 405-850-2932	COLOR: WILD 05557 SIZE: 9" X 36" INSTALLATION: REFER PLAN
B1	RUBBER BASE	JONSONITE ANGIE KERSCHEN 405-590-3128	TRADITIONAL 4" H, GREY WG 48
В2	PORCELAIN BASE	ELEGANZA TILE CHRIST BOTELLO 405-412-5406	STYLE: ELEGANZA TILE NOVA, MATTE FINISH SIZE: 4" X 24" BULLNOSE COLOR: SILVER INSTALLATION: STACK BOND GROUT: LATICRETE 89 SMOKE GREY
ВЗ	HARDWOOD BASE	CUSTOM	6" H X 3/4" D., STAIN TO MATCH W3
P1	PAINT	SHERWIN WILLIAMS	SM 1005 PURE MHITE STANDARD WALL AND CEILING (SATIN @ WALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL)
P2	PAINT	SHERWIN WILLIAMS	SM 7066 GREY MATTERS ACCENT MALL AND CEILING (SATIN @ MALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL)
P3	PAINT	SHERMIN WILLIAMS	SW 6531 INDIGO ACCENT WALL AND CEILING (SATIN @ WALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL) SW 6594 POINSETTA
P4	PAINT	SHERWIN WILLIAMS	ACCENT WALL AND CEILING (SATIN @ WALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL) SW 7675, SEAL SKIN
P5	PAINT	SHERMIN WILLIAMS	EXTERIOR BRICK LINTELS, EXTERIOR DOOR FRAMES (SATIN @ WALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL)
P6	PAINT	SHERMIN WILLIAMS	ACCENT MALL AND CEILING (SATIN @ MALLS, FLAT @ CEILINGS, SEMI-GLOSS @ METAL) SM 9173 SHIITAKE
P7	PAINT	SHERMIN WILLIAMS	EXISTING EXTERIOR PLASTER SOFFIT FLAT, EXTERIOR PAINT
P8 Q1	NOT USED QUARTZ	WILSONART KELLEY LYTLE	MADEIRA BEACH Q4054
L1	PLASTIC LAMINATE	405-618-0393 WILSONART KELLEY LYTLE 405-618-0393	2 CM THICK WITH EASED EDGE - REFER 04A/A10.2 WALNUT HEIGHTS 7965K-12
L2	PLASTIC LAMINATE	NEVAMAR STEPHANIE LAVOIE 207-784-9111	EASY ELEGANCE VA5002T TEXTURED
M1	MALL TILE	ELEGANZA TILE CHRIST BOTELLO 405-412-5406	STYLE: ELEGANZA TILE NOVA, MATTE FINISH SIZE: 12" X 24" COLOR: SILVER INSTALLATION: STACK BOND GROUT: LATICRETE 89 SMOKE GREY
M2	CERAMIC WALL TILE	VIRGINIA TILE TY SANDOVAL 405-443-6114	STYLE: ANATOLIA MARLOW SIZE: 3" X 12" COLOR: CLOUD GLOSSY INSTALLATION: STACK BOND GROUT: MAPEI 39 IVORY
МЗ	FLAT VENEER PANEL	RULON INTERNATIONAL MICHAEL KOLMAN 904-584-1400	WALNUT WITH CUSTOM FINISH GRAIN TO RUN HORIZONTAL PROVIDE SAMPLE FOR ARCHITECT'S REVIEW
M4	HARDWOOD TRIM	CUSTOM	STAIN TO MATCH (M3) - PROVIDE SAMPLE FOR ARCHITECT'S REVIEW
M5	WINDOW FILM	AVERY DENNISON	SC 900 861-W ETCHMARK 48"H DOUBLE-TAKE T500 5% OPENNESS MANUAL
M6	MINDOM SHADES SYSTEM	SWF CONTRACT	DOUBLE-TAKE 1500 5% OPENNESS MANUAL COLOR: U504 WHITE/GREY FASCIA COLOR: DARK BRONZE TYP. AT ALL EXTERIOR WINDOW LOCATIONS - FIELD VERIFY SIZES
M7	OPAQUE MINDOM FILM	3M WINDOW FILMS	BLOCKOUT 3635, 22B, OPAQUE WINDOW FILM, BLACK MATTE
\neg	ACT	USG CEILINGS TONY WELCH	ORION # 62156 2'-0" X 2'-0" SQUARE EDGE, WHITE, WHITE DONN DX/DXL 15/16" GRID
C1		405-973-8701	HINY HIDERS

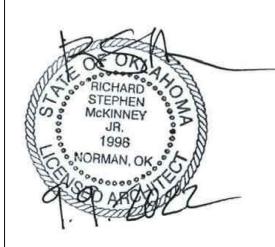
150 HIGH IMPACT CORNER GUARD COLOR: FEATHER, 0238 SIZE: 48" H. - INSTALL CORNER GUARD 12" AFF

CG1 CORNER GUARDS



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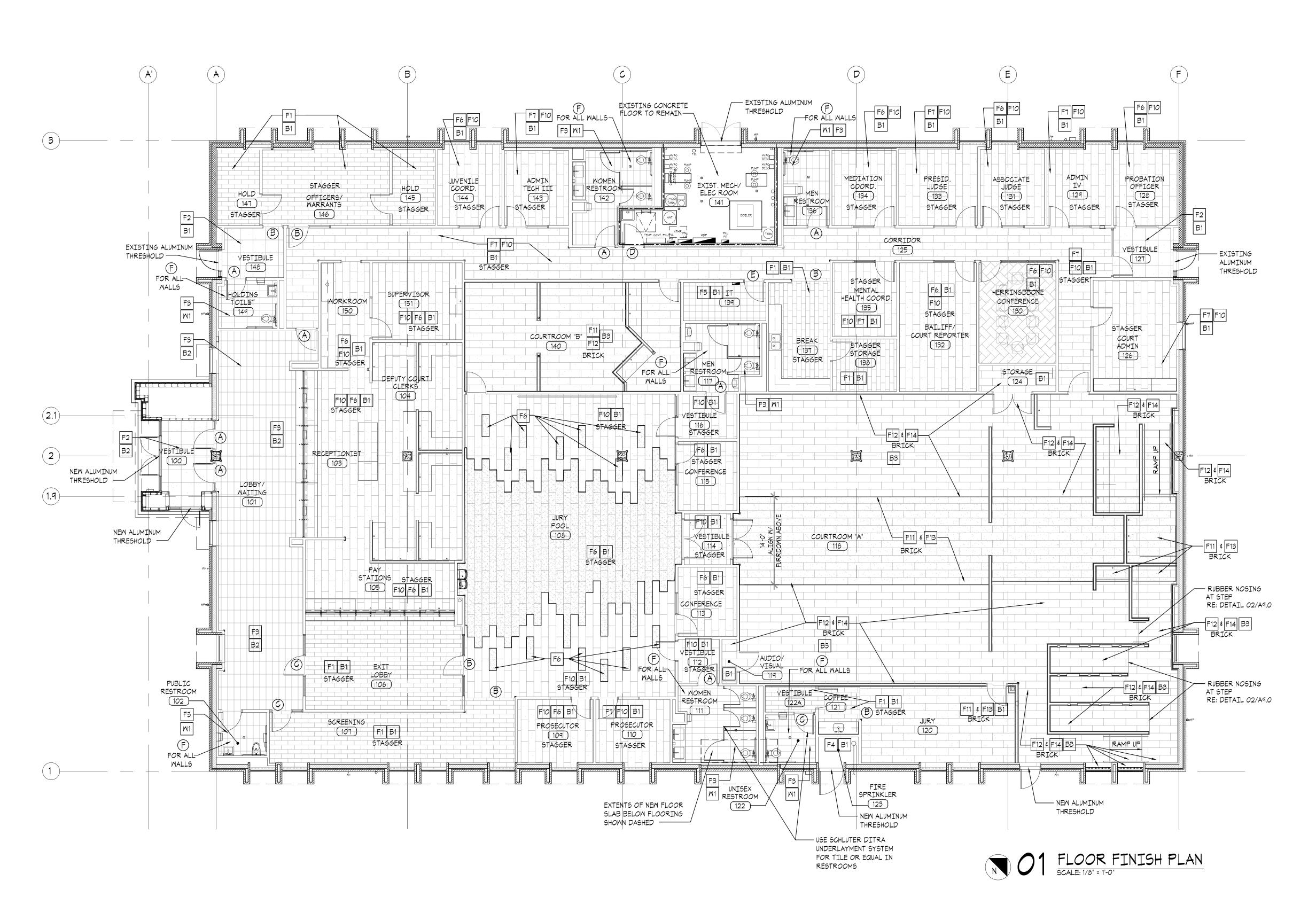
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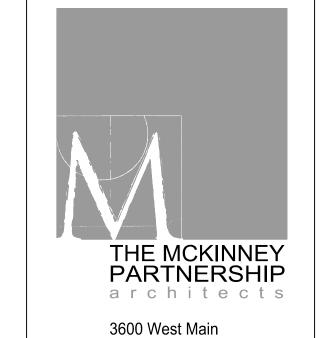
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FINISH SCHEDULE, DETAILS

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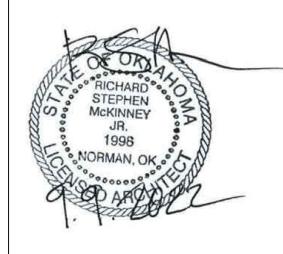
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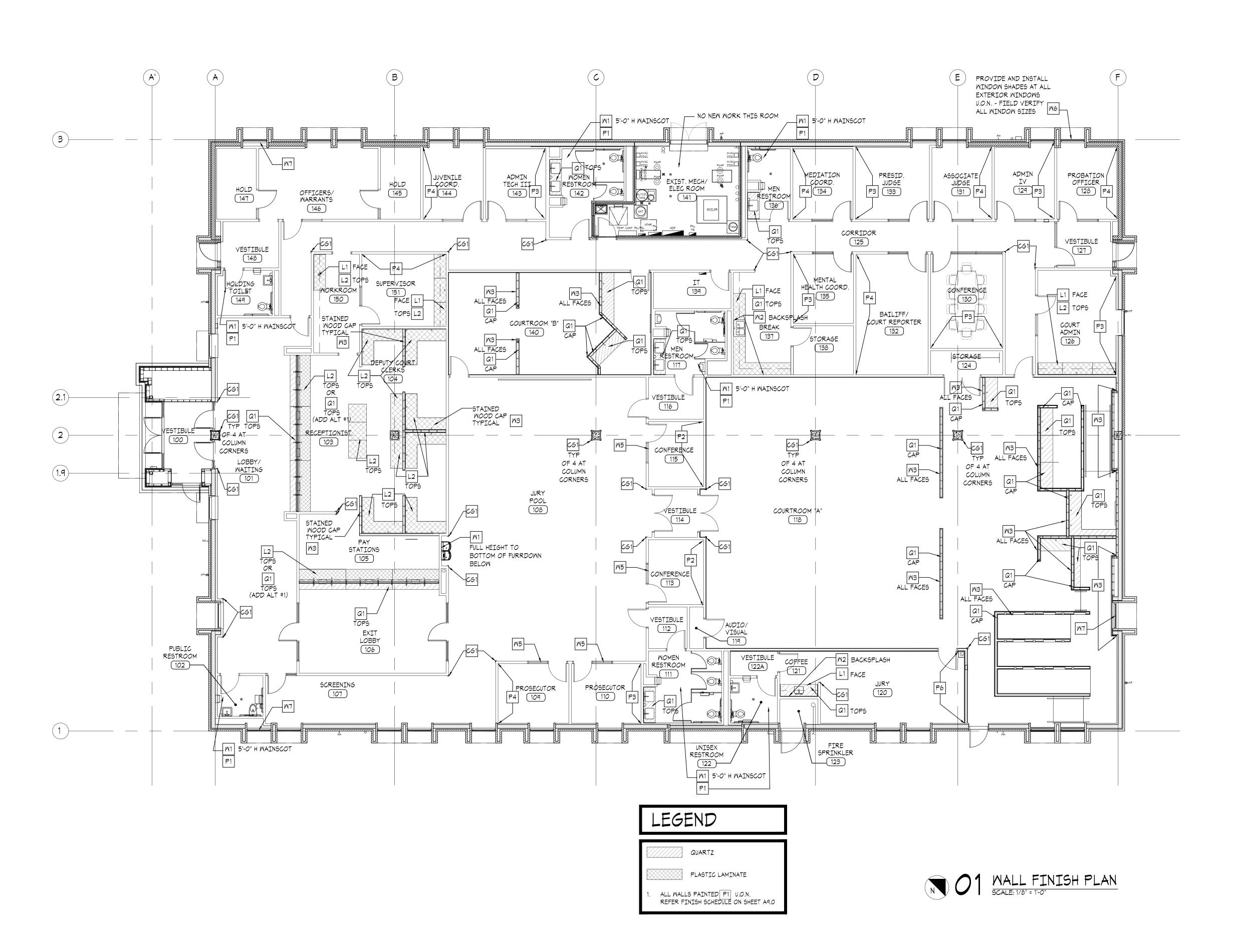
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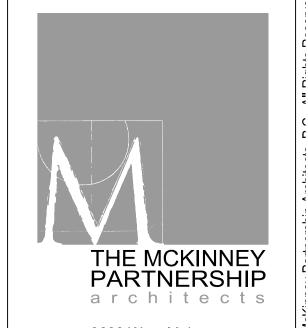
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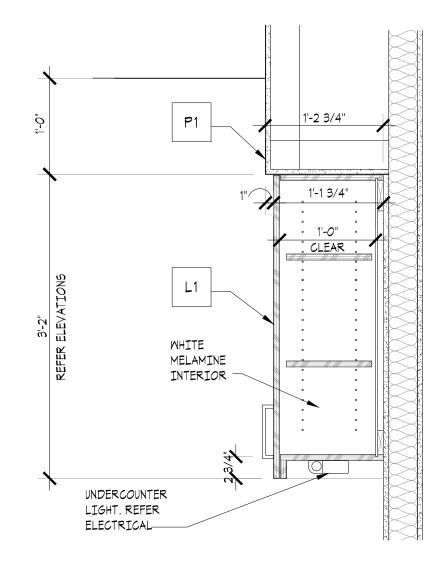
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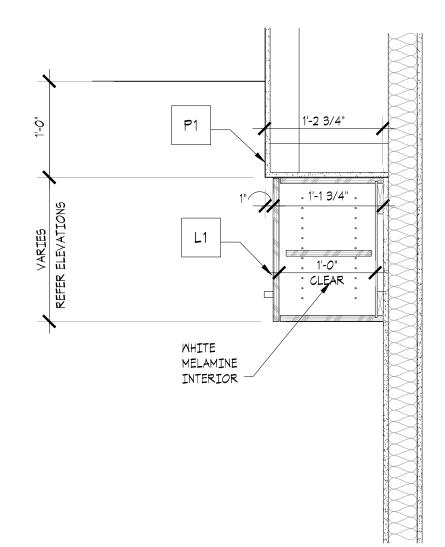
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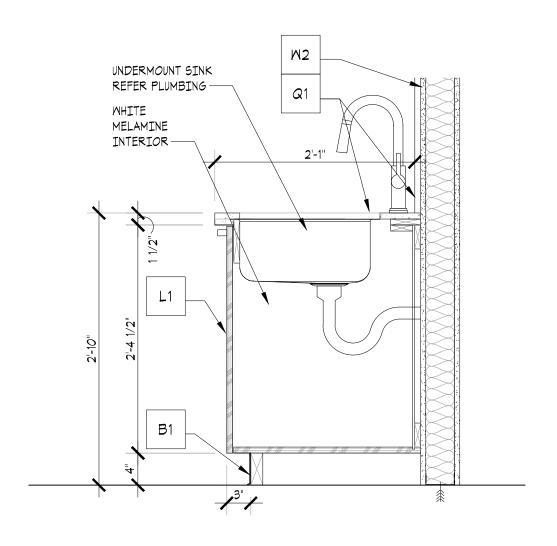
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Sheet Title: WALL FINISH PLAN



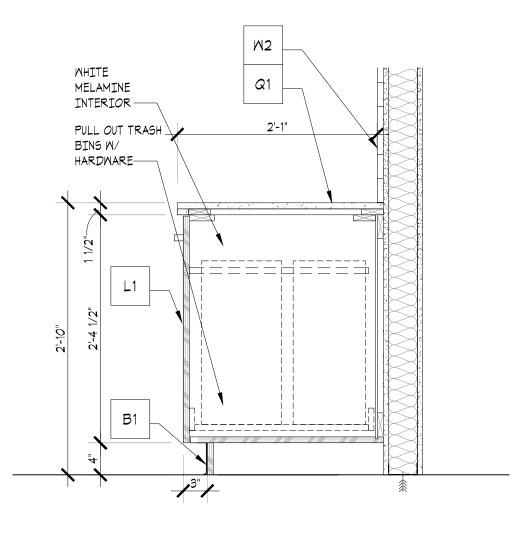


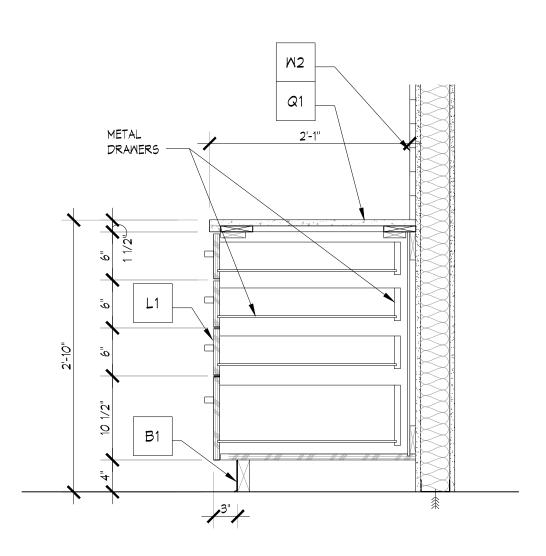


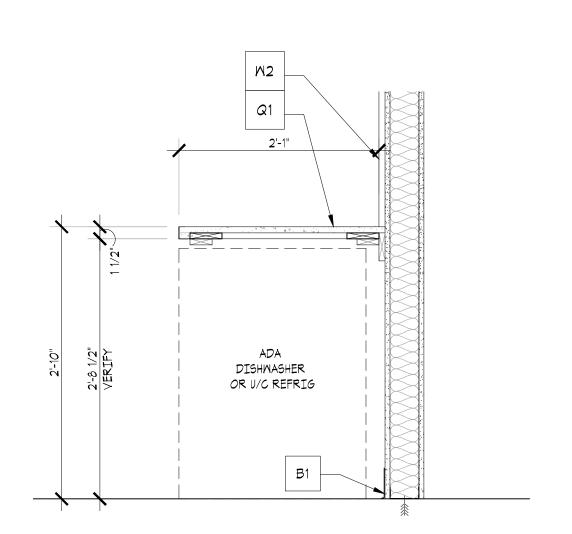
11 MILLWORK SECTION - UPPER
SCALE: 1" = 1'-0"

10 MILLWORK SECTION - UPPER SCALE: 1" = 1'-0"

09 MILLWORK SECTION - SINK



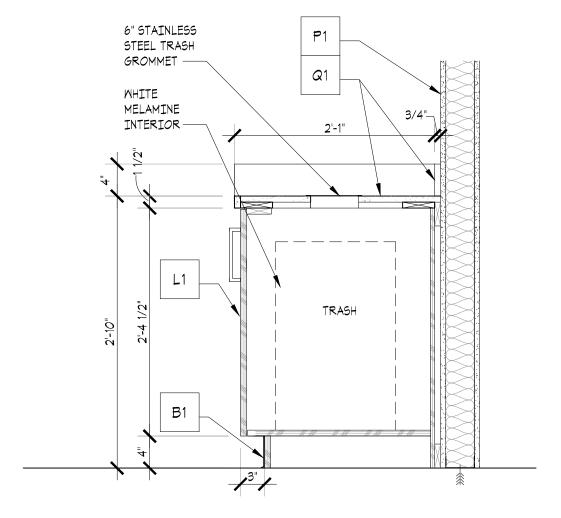




7 MILLWORK SECTION - TRASH

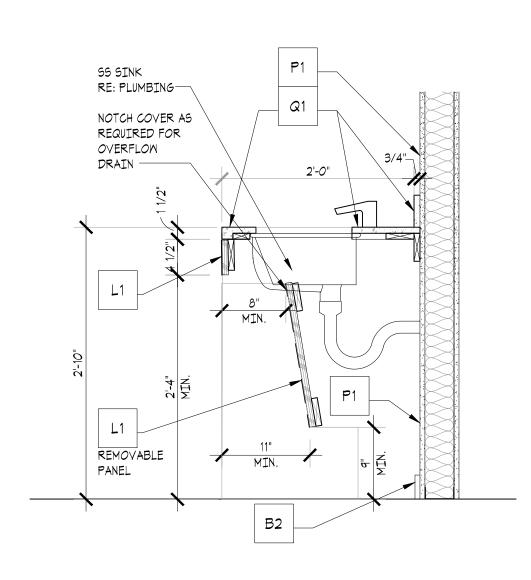
06 MILLWORK SECTION - DRAWERS

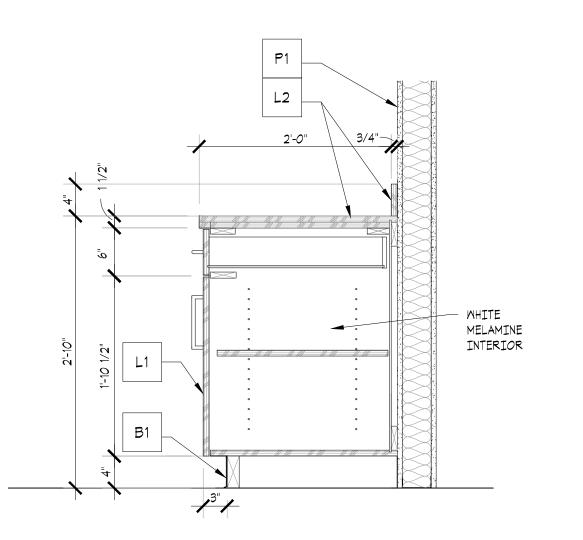
05 MILLWORK SECTION - DISHWASHER



04 MILLWORK SECTION - TRASH

SCALE: 1" = 1'-0"





03 MILLWORK SECTION - LAYATORY

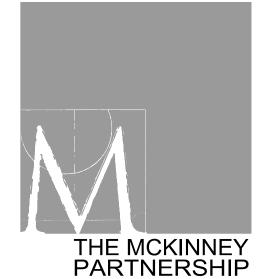
02 MILLWORK SECTION -BASE CABINET

01 NOT USED

SCALE: 1" = 1'-0"

GENERAL MILLWORK NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES.
- CONTRACTOR SHALL VERIFY DIMENSIONS OF OWNERS EQUIPMENT PRIOR TO CONSTRUCTION AND SHALL VERIFY ANY REQUIRED CLEARANCES.
- 3. PROVIDE F.R. WOOD CONTINUOUS BLOCKING AS REQUIRED.
- 4. A MAXIMUM OF 1/8" SHALL OCCUR BETWEEN ALL DRAWERS AND DOOR FRONTS.
- 5. ENGLOSED CABINET BACKS TO BE ONE SIDED WHITE MELAMINE ON 1/4" MDF PANELS TYPICAL.
- 6. ALL ATTACHMENT SCREWS SHALL MATCH FINISH OF CORRESPONDING HARDWARE.
- REFER FINISH SCHEDULE FOR FINISH TYPES.
- ALL BASE AND UPPER CABINETS TO BE PLASTIC LAMINATE VENEER ON 3/4" PARTICLEBOARD WITH MATCHING TAPE EDGES.
- PLASTIC LAMINATE WOODGRAIN TO BE RUN VERTICAL AT ALL MILLWORK LOCATIONS. USE SAME SHEET FOR DRAWER ABOVE DOOR.
- 10. DOOR & DRAWER FRONTS AND BULKHEADS TO BE PLASTIC LAMINATE VENEER FRONTS ON LUMBER CORE PLYWOOD. USED GRASS DRAWER GLIDE SYSTEM OR EQUAL W/ 1/2" WHITE MELAMINE BOTTOM. PROVIDE SILICONE SILENCER PADS AND EPCO BP-096-SN 6" BAR PULL OR EQUAL, TYPICAL. SATIN STAINLESS STEEL. DRAWERS TO BE FULL DEPTH OF FRONT.
- 11. ALL ENCLOSED SHELVING (FIXED & ADJUSTABLE) THAT IS CONCEALED FROM VIEW BY DOORS TO BE TWO SIDED WHITE MELAMINE ON 3/4" PARTICLEBOARD WITH MATCHING TAPE EDGE 3 SIDES.
- 12. ALL EXPOSED SHELVING (FIXED & ADJUSTABLE) TO BE PLASTIC LAMINATE VENEER ON 3/4" PARTICLEBOARD WITH MATCHING TAPE EDGE TAPE THREE SIDES.
- 13. ALL CABINET DOORS TO BE PLASTIC LAMINATE VENEER ON 3/4" MDF WITH MATCHING EDGE TAPE FOUR SIDES.
- 14. ALL DRAWERS TO BE METAL DRAWER SYSTEM-BLUM METABOX OR EQUAL. DRAWER FRONTS AND TO BE PLASTIC LAMINATE VENEER ON 3/4" MDF WITH MATCHING EDGE TAPE FOUR SIDES.
- 15. PLASTIC LAMINATE COUNTERTOPS AND BACKSPLASHES TO BE PLASTIC LAMINATE ON 3/4" PARTICLEBOARD WITH 1 1/2" NOSING-REFER MILLWORK SECTIONS. SEAL PLASTIC LAMINATE SPLASH/COUNTER/AND WALL JOINTS WITH CLEAR SILICONE.
- 16. PLASTIC LAMINATE COUNTERTOPS AND BACKSPLASHES IN WET AREAS TO BE PLASTIC LAMINATE ON 3/4" WATERPROOF PLYWOOD WITH 1 1/2" NOSING-REFER MILLWORK SECTIONS. SEAL PLASTIC LAMINATE SPLASH/COUNTER/AND WALL JOINTS WITH CLEAR SILICONE.
- QUARTZ COUNTERTOPS TO BE 2CM MATERIAL ON 3/4"
 WATERPROOF PLYWOOD. EDGE TO BE EASED-REFER DRAWINGS
 FOR EDGE DIMENSION.]
- 18. PROVIDE 5mm HOLES IN BULKHEADS FOR SHELFS-PROVIDE FOUR (4) 5MM SHELF SUPPORTS AT EACH SHELF.
- 19. PROVIDE HEAVY DUTY SELF-CLOSING CONCEALED 120 DEGREE EUROPEAN HINGES-BLUM OR EQUAL.
- 20. ALL CABINET PULLS TO BE EPCO BP-096-SN 6" BAR PULL OR EQUAL. SATIN STAINLESS STEEL.
- 21. PROVIDE CLEAR SILICONE SILENCER PADS ON ALL DOORS AND
- 22. PROVIDE 6" DIAMETER X 2" DEEP SATIN S.S. GROMMET OVER TRASH RECEPTACLE AND OVER RECYCLING RECEPTACLE IN COUNTERTOP-DOUG MOCKET TM1B OR EQUAL, TYPICAL.
- 23. PULL OUT TRASH/RECYCLING TO BE HAFELE PULL-OUT DOUBLE TRASH CANS, BOTTOM MOUNT WITH SOFT & SILENT CLOSING 2 X 52 QT (2 X 13 GAL), MINIMUM CABINET OPENING: 15-5/8" WIDE OR EQUAL, TYPICAL.
- 24. PROVIDE TRASH & RECYCLING RECEPTACLES TO FIT CABINETS.
- 25. INSTALL COUNTER SUPPORTS @ MAX. 4'-O" O.C. ON ALL UNSUPPORTED COUNTERTOPS. DOUG MOCKETT SW54, WHITE OR EQUAL.
- 26. MILLWORK CABINET BASES AT ALL LOCATIONS WITH QUARTZ COUNTERTOPS TO BE 3/4" HIGHER TO ACCOUNT FOR LACK OF SUBSTRATE. REFER TO MILLWORK SECTIONS FOR HEIGHTS OF BASE, EXCLUDING COUNTERTOPS. CONSTRUCT ALL BASES TO MAINTAIN FINISHED HEIGHTS (INCLUDING COUNTERTOPS) FOR ALL CABINETS.

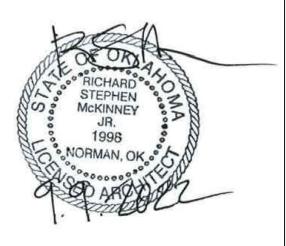


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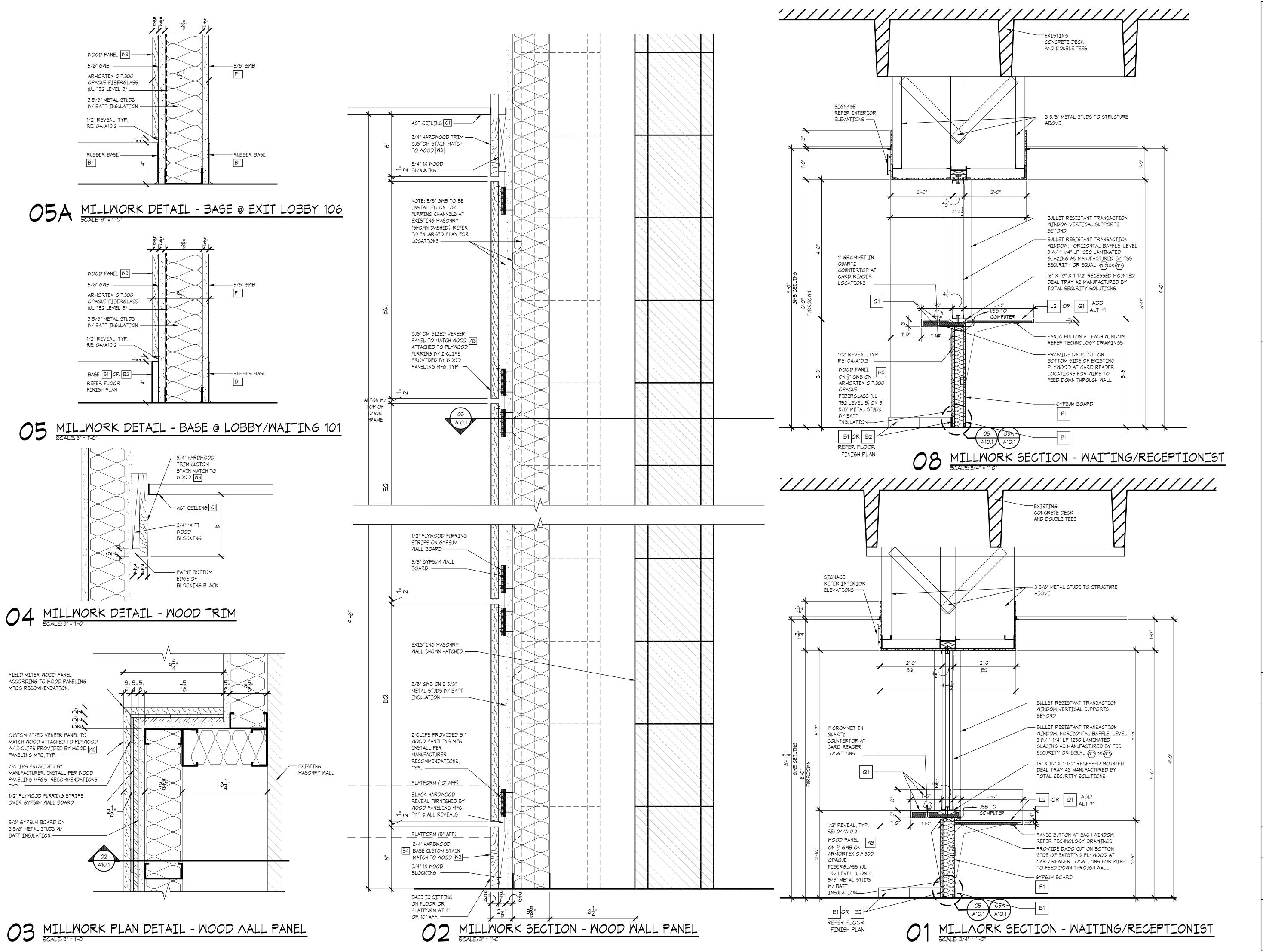
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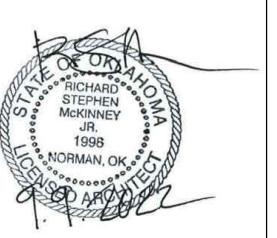
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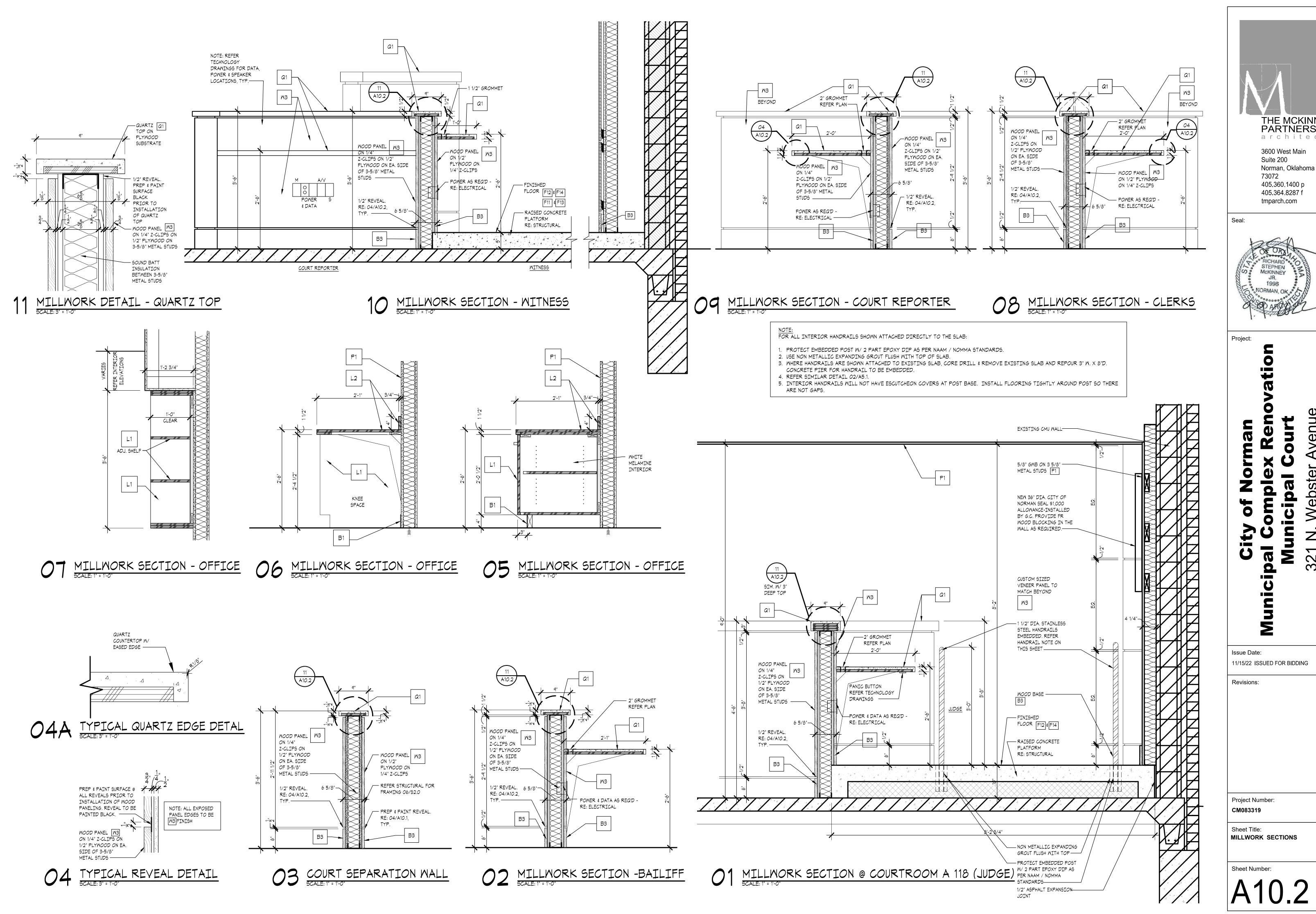
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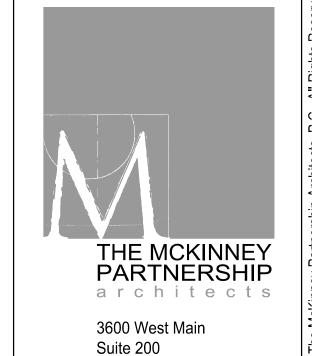
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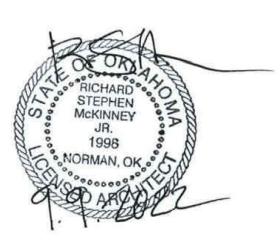
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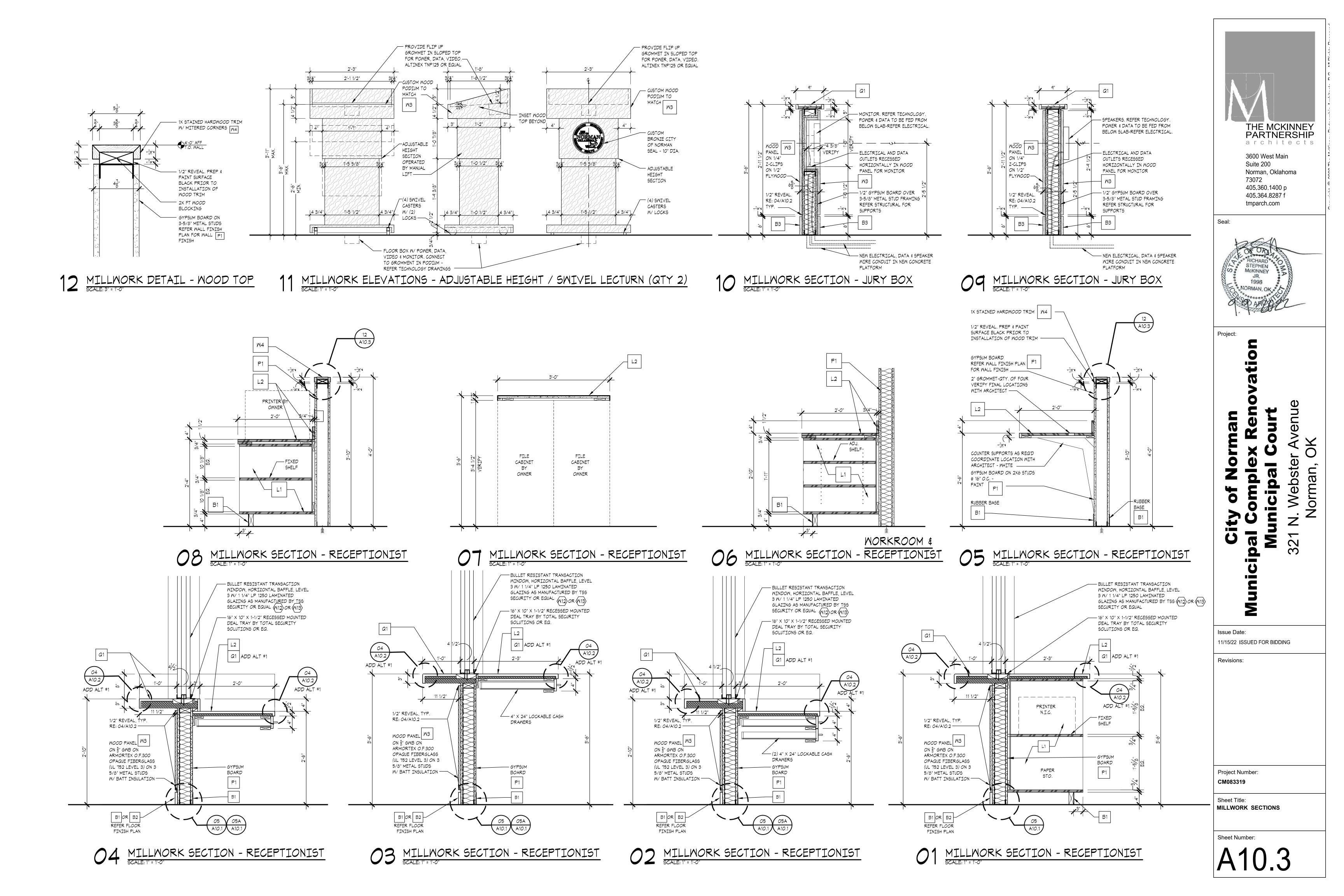
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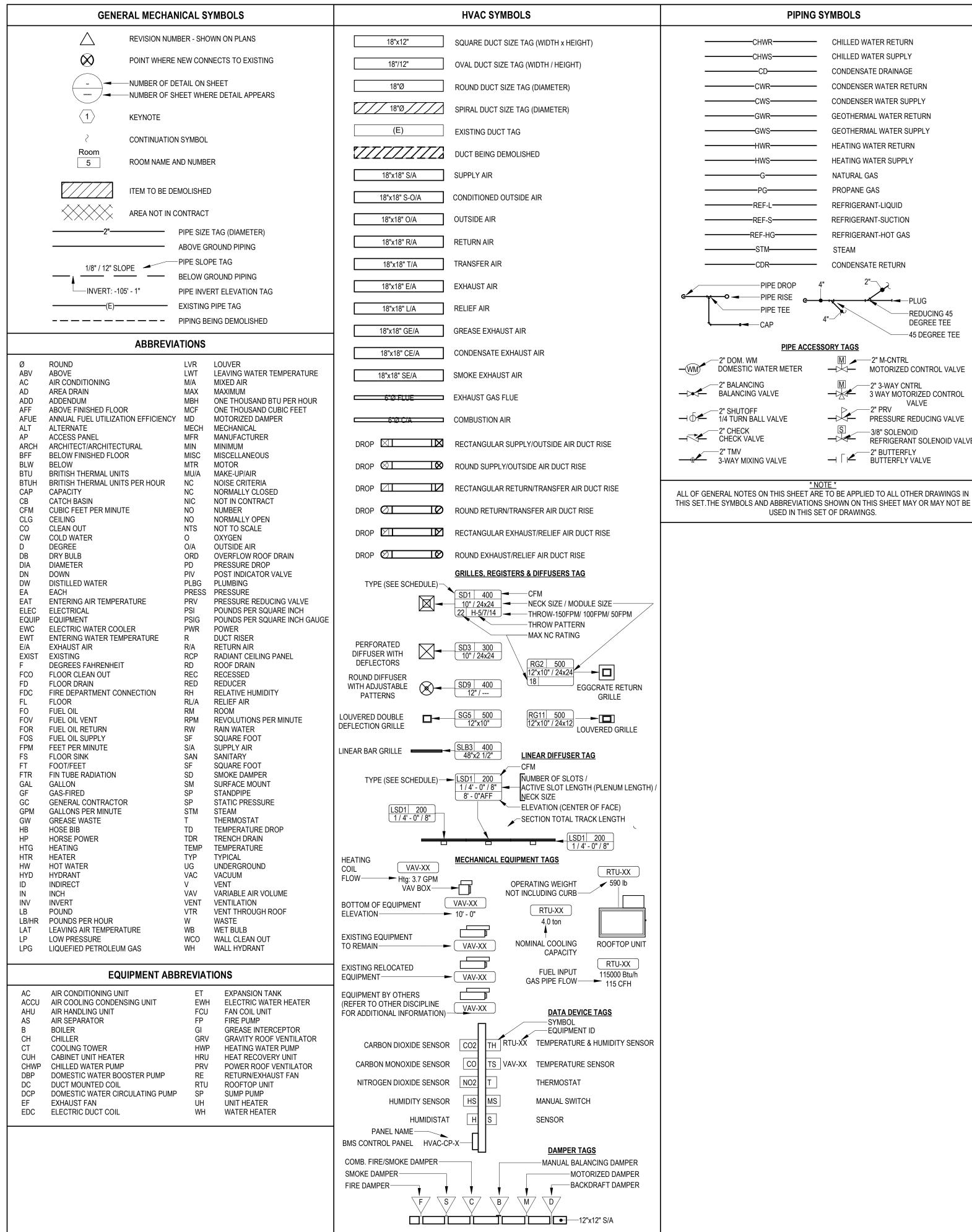
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Sheet Title: MILLWORK SECTIONS





GENERAL MECHANICAL NOTES

SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.

PIPING SYMBOLS

—CHWR———— CHILLED WATER RETURN

CHILLED WATER SUPPLY

CONDENSATE DRAINAGE

CONDENSER WATER RETURN

CONDENSER WATER SUPPLY

GEOTHERMAL WATER RETURN

GEOTHERMAL WATER SUPPLY

HEATING WATER RETURN

HEATING WATER SUPPLY

REFRIGERANT-LIQUID

REFRIGERANT-SUCTION

REFRIGERANT-HOT GAS

CONDENSATE RETURN

M ____2" M-CNTRL

>. ____2" PRV

\$. ____3/8" SOLENOID

→ 「 BUTTERFLY VALVE

MOTORIZED CONTROL VALVE

3 WAY MOTORIZED CONTROL

PRESSURE REDUCING VALVE

REFRIGERANT SOLENOID VALVE

VALVE

2" 3-WAY CNTRL

-REDUCING 45

DEGREE TEE

-45 DEGREE TEE

-PIPE DROP

PIPE ACCESSORY TAGS

USED IN THIS SET OF DRAWINGS.

—PIPE TEE

→ PIPE RISE

NATURAL GAS

- DUCT DIMENSIONS LISTED ON DRAWINGS REPRESENT THE AIRFLOW FREE AREAS AND DO NOT HAVE ALLOWANCES FOR INSULATION LINER. WHERE APPLICABLE. INSIDE THE DUCTS, OR DUAL WALL DIMENSIONS. DUCTS SHALL BE CONSTRUCTED TO INCLUDE INSULATION REQUIREMENTS AND MAINTAIN AIRFLOW DIMENSIONS INDICATED ON PLANS. FOR CLASH COORDINATION INCLUDE INSULATION THICKNESS PER SCHEDULE.
- ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES, RULES, REGULATIONS, AND ORDINANCES WHICH SHALL TAKE PRECEDENCE OVER THE PLANS IF CONFLICTS EXIST BETWEEN THEM.
- 4 THE DRAWINGS INDICATE THE GENERAL LAYOUT REQUIREMENTS FOR EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC. FINAL LAYOUT SHALL BE MODIFIED TO FIT ACTUAL SITE CONDITIONS, ALL REQUIRED REVISIONS SHALL BE RECORDED ON A DESIGNATED HARD COPY SET OF REDLINE PLANS TO BE KEPT CURRENT TO JOBSITE PROGRESS. AT MINIMUM, THIS DOCUMENT SHALL BE UPDATED WEEKLY AND REDILY AVAILABLE FOR REVIEW AND REFERENCE.
- COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING. HANDLING. AND PROTECTION OF MATERIALS. PROVIDE LABOR TO RECEIVE UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION OF ANY OWNER-FURNISHED ITEMS.
- IN CASES OF EQUIPMENT SUBSTITUTION, CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL SYSTEMS AND COMPONENTS WILL FIT PROPERLY PRIOR TO FABRICATION OR ORDERING. INSTALLED DUCTS MAY BE RESIZED BY THE CONTRACTOR TO FIT FIELD CONDITIONS AS LONG AS THE INSTALLED DUCTS SHALL HAVE EQUAL FRICTION LOSS TO THOSE SHOWN. RECTANGULAR DUCTS SHALL NOT BE CHANGED TO ROUND DUCTS. PROVIDE COMPLETE SHEET METAL SHOP DRAWINGS TO ENGINEER SHOWING ACTUAL DUCT SIZES, ARRANGEMENTS, AND UNIT LOCATIONS TO BE INSTALLED. THIS SHALL BE DONE PRIOR TO FABRICATION OR INSTALLATION.
- INSTALL ACOUSTIC TURNING VANES IN ELBOWS IN RECTANGULAR DUCTS 20" AND LARGER. INSTALL RADIUS TYPE ELBOWS IN RECTANGULAR DUCTS SMALLER
- USE 45 DEGREE TAKE-OFF FITTINGS AT ALL ROUND SUPPLY BRANCH TAKEOFFS. PROVIDE BALANCE DAMPERS AT ALL SUPPLY DUCT RUNOUTS TO GRILLES. LOCATE AS FAR AS POSSIBLE FROM GRILLES IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN SOLID WALLS AND CEILINGS FOR BALANCING
- USE FLEX DUCTS FOR FINAL CONNECTION TO ALL CEILING DIFFUSERS, AND WHERE NECESSARY, SIDEWALL DIFFUSERS, AND LIMIT TO 3'-0" MAX. LENGTHS.
- 10 PROVIDE A COMPLETE AND OPERATING MECHANICAL SYSTEM, INCLUDING ALL INCIDENTAL ITEMS AND CONNECTIONS NECESSARY FOR PROPER OPERATION OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM MAY NOT BE
- 11 THE MECHANICAL INSTALLATION SHALL BE SAFE, RELIABLE, ENERGY EFFICIENT AND EASILY MAINTAINED WITH ADEQUATE PROVISIONS ALLOWED FOR ACCESS TO
- 12 THE MECHANICAL SYSTEM SHALL OPERATE QUIETLY WITH NOISE LEVELS BELOW THE CRITERIA RECOMMENDED FOR THE APPLICATION BY ASHRAE APPLICATIONS HANDBOOK NOISE AND VIBRATION CONTROL. PROVIDE CORRECTIVE ACTION AS REQUIRED TO REDUCE OBJECTIONABLE NOISE OR VIBRATION.
- 13 UNDERCUT DOORS 3/4 INCH WHERE NO RETURN NOR EXHAUST GRILLE IS SHOWN TO ALLOW FOR AIR TRANSFER (DO NOT UNDERCUT FIREDOORS.)
- 14 REFER TO ARCH, PLANS AND DETAILS FOR EXACT LOCATION OF ALL WALL AND CEILING MOUNTED DEVICES. ADJUST LOCATION OF SIDEWALL DEVICES AS NECESSARY TO AVOID INTERFERENCE WITH MOLDING OR OTHER ELECTRICAL
- 15 WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE-RATED FLOORS OR WALLS. THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOWN CORNING CORP "SILICONE ELASTOMER, RTV FOAM, OR SIMILAR MATERIAL TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR. 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND BEAM
- PENETRATIONS AS IT RELATES TO HIS WORK.
- 17 CONTRACTOR SHALL NOT INSTALL ANY MAINTENANCE ITEMS ABOVE HARD CEILINGS. THIS SHALL INCLUDE VALVES, DAMPERS, OR ANY OTHER ITEMS THAT REQUIRE ACCESS AFTER CONSTRUCTION IS COMPLETED. IF INSTALLATION ABOVE A HARD CEILING OF THESE ITEMS CANNOT BE AVOIDED, THEN PROVID CEILING ACCESS DOORS EQUAL TO ACUDOR MODEL FW-505 WHERE REQUIRED. AT FIRE-RATED WALLS, USE EQUIVALENT OF ACUDOR MODEL FB-5060. MINIMUN SIZE SHALL BE 12"x12". USE 18"x18" WHEN PERSONNEL ACCESS IS REQUIRED.
- 18 PROVIDE AN INSULATED BACK ON ALL THERMOSTATS AND TEMPERATURE SENSORS THAT ARE MOUNTED ON CMU OR HOLLOW WALLS. PROVIDE SHALLOW DEVICE EXTENSION BOX BEHIND T-STATS AND SENSORS ON MASONRY WALLS IN COMMERCIAL / RETAIL SPACES.
- 19 PROVIDE FIRE DAMPERS AT ALL FIRE-RATED WALLS AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE BARRIER WALLS AND CEILINGS.
- 20 IF A CENTRAL FIRE ALARM SYSTEM IS REQUIRED FOR THIS PROJECT, MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS PROVIDED BY FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL NOTES FOR EXACT REQUIREMENTS. MECHANICAL CONTRACTOR SHALL IDENTIFY A SET OF TERMINALS FOR EQUIPMENT SHUTDOWN ON ALL FAN POWERED EQUIPMENT REQUIRING SHUTDOWN CONTROLS. FIRE ALARM CONTRACTOR SHALL WIRE FROM DUCT MOUNTED SMOKE DETECTOR TO SHUTDOWN TERMINALS TO SHUT DOWN FAN OPERATION WHEN SMOKE IS DETECTED.
- 21 AT PENETRATIONS THROUGH FIRE WALLS: ANY NON-METALLIC PIPE OR DUCT SHOULD BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY, AND ANY SPACE BETWEEN THE SLEEVE AND THE ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900, OR FLAME STOPPER 5000.
- 22 REFER TO ELECTRICAL DRAWINGS FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER DETAIL. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DAMPERS WITH MOTORIZED ACTUATORS AND INSTALL SMOKE DETECTORS AND PROVIDE WIRING FOR FAN SHUTDOWN CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR AND PROVIDE DAMPER ACTUATOR COMPATIBLE WITH ELECTRICAL WIRING PROVIDED. PROVIDE ANY WIRING OR COMPONENTS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR THAT ARE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 23 AHEAD OF ALL VAV BOX INLETS, INSTALL STRAIGHT DUCT EQUIVALENT TO AT LEAST 2 DIAMETERS IN LENGTH WHETHER SHOWN ON PLANS OR NOT.
- 24 SEISMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY 26 NO RECTANGULAR DUCT SMALLER THAN 10"X10"
- 27 ANY LINE VOLTAGE WIRING THAT IS RUN BY THE MECHANICAL CONTRACTOR
- SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL PLANS, NOTES, AND
- 28 WHERE DUCTS PASS THROUGH FIRE RATED WALLS AND NO FIRE DAMPER IS REQUIRED, PROVIDE A STEEL SLEEVE (MIN. 12" LONG BY 0.60" THICK) IN EACH DUCT OPENING PER IBC 714.

PROJECT GENERAL NOTES

- COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE
 - TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL

CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND

- INTERNATIONAL MECHANICAL CODE ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF
- LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND
- SHALL BE U.L. LISTED. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH
- FOUNDATIONS, FLOORS, WALLS, AND ROOF. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO
- SUIT MATERIALS IN WHICH INSTALLED. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL FQUIPMENT.
- REFER TO PLUMBING DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF
- QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS. M LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
- THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL

PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER

EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL

ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

THE DATE OF FINAL ACCEPTANCE.

ALL ROOFING WORK SHALL BE PERFORMED BY OWNER'S ROOFING CONTRACTOR TO MAINTAIN MANUFACTURER'S WARRANTY.

HVAC SHEET INDEX

- MD1.1 MECHANICAL DEMOLITION PLAN MD1.2 MECHANICAL PIPING DEMOLITION PLAN
- M0.1 MECHANICAL LEGENDS AND ABBREVIATIONS
- M1.1 HVAC PLAN
- M1.2 MECHANICAL PIPING PLAN
- M5.1 MECHANICAL DETAILS M5.2 MECHANICAL DETAILS
- M5.3 MECHANICAL DETAILS M6.1 MECHANICAL SCHEDULES
- THE MCKINNEY PARTNERSHIP

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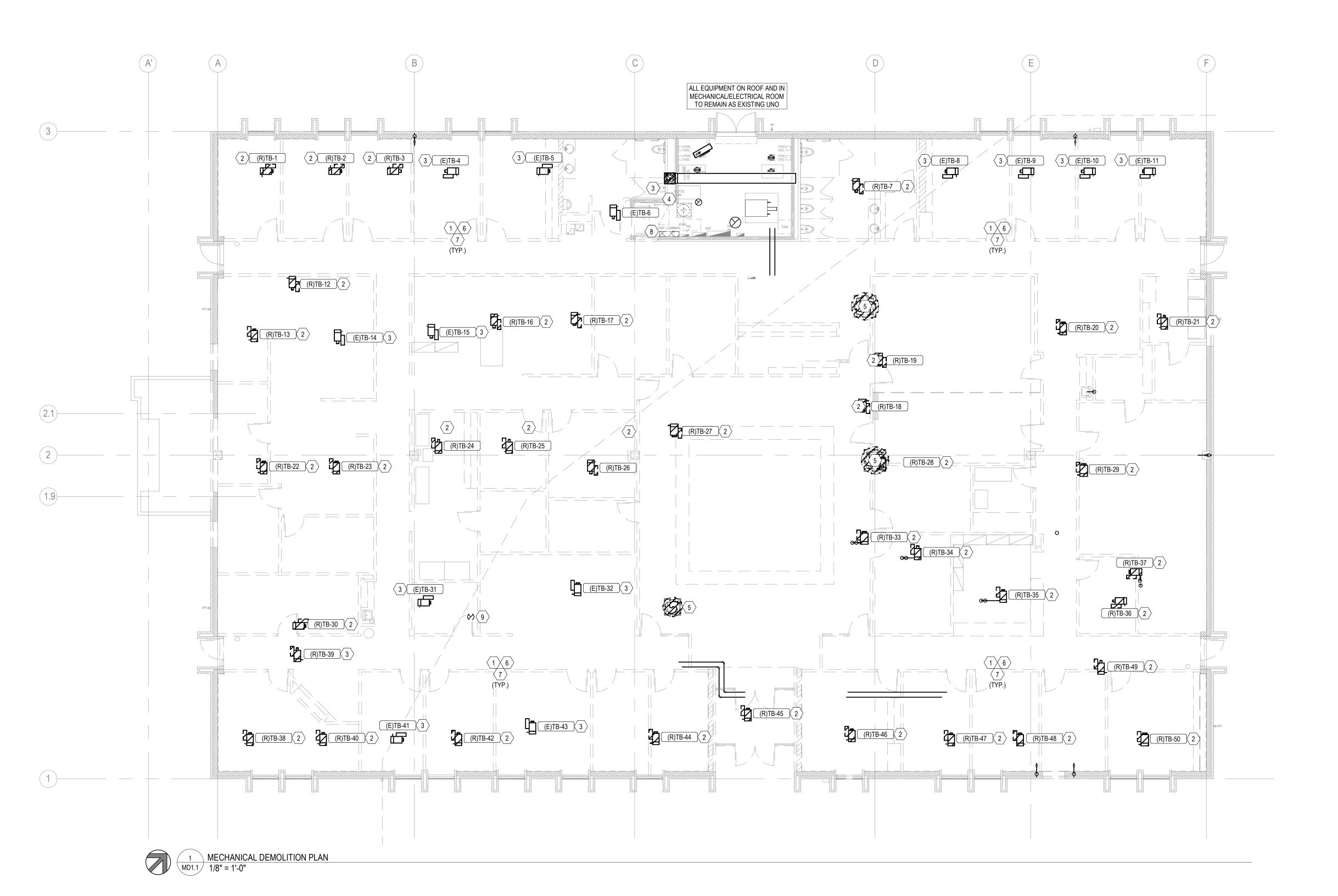
Sheet Title: MECHANICAL LEGENDS AND **ABBREVIATIONS**

Sheet Number:

HP ENGINEERING

COA#: 5338 Expires 06/30/2023 520 West Broadway Avenue Suite 101 Broken Arrow, Oklahoma 74012 918.895.6510 p

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- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE
- ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE
- COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.

INSULATION. SEAL ALL JOINTS AND PENETRATIONS.

ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.

K FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING

- CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS.
- SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
- SYSTEM. M THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING
- 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS NOTED.
- O ALL REFRIGERANT PIPING SHALL BE INSULATED PER MANUFACTURER'S

⟨#⟩ KEYNOTES

- DEMOLISH ALL EXISTING SUPPLY AND RETURN DUCTWORK THROUGHOUT BUILDING BACK TO MAIN DUCT DROPS. PRESERVE EXISTING VERTICAL MAIN DUCTS FOR RE-USE.
- DISCONNECT, UNMOUNT, AND PRESERVE EXISTING VAV TERMINAL BOX UNIT FOR RE-USE. PRESERVE W VALVE, ACTUATOR, CONTROLS AND ALL OTHER APPURTENANCES FOR RE-USE.
- EXISTING VAV TERMINAL BOX UNIT TO REMAIN. DEMOLISH ASSOCIATED DUCTS CONNECTED TO TERMINAL BOX AND REPLACE PER HVAC PLAN. TERMINAL BOX MAY REQUIRE SLIGHT ADJUSTMENT IN ORIENTATION TO ACHIEVE DESIRED AIRFLOW DIRECTION. REFER HVAC PLAN FOR DESIRED ORIENTATION.
- REPLACE EXISTING EXHAUST FAN AS NOTED ON HVAC PLAN. REMOVE EXISTING EXHAUST FAN, ASSOCIATED EXHAUST GRILLES, AND ASSOCIATED DUCTWORK. DEMOLISH EXISTING EXHAUST FAN, ASSOCIATED EXHAUST GRILLES, AND
- ASSOCIATED DUCTWORK. IF EXISTING EXHAUST FAN IS ROOF-MOUNTED, REFER TO ARCH TO PATCH AND REFINISH ROOF. 6 DEMOLISH ALL EXISTING THERMOSTATS AND ASSOCIATED CONDUT AND WIRING
- THROUGHOUT BUILDING. DEMOLISH ALL EXISTING SUPPLY AND RETURN AIR DEVICES THROUGHOUT **BUILDING UNO**
- 8 COORDINATE WITH CONTROLS CONTRACTOR TO PREPARE EXISTING HVAC
- CONTROL PANEL TO BE RELOCATED APPROXIMATELY 6" ON WALL. REMOVE ABANDONED 8" EXHAUST DUCT AND PATCH ROOF PENETRATION.

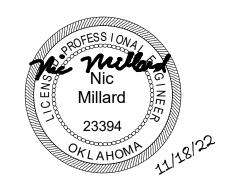


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MD1.1

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- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
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- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE
- ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM
- INSULATION. SEAL ALL JOINTS AND PENETRATIONS. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.

THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE

CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS.

FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING

- SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
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- 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS NOTED.
- O ALL REFRIGERANT PIPING SHALL BE INSULATED PER MANUFACTURER'S

(#)KEYNOTES

- ALL EXISTING CHILLED WATER SUPPLY AND RETURN PIPING TO REMAIN. ROOF MOUNTED CHILLER AND ALL ASSOCIATED APPURTENANCES TO REMAIN.
- TERMINAL BOX TO BE RELOCATED. DEMOLISH EXISTING HOT WATER SUPPLY AND RETURN PIPING FROM TERMINAL BOX BACK TO SUPPLY/RETURN MAINS AND CAP.
- TERMINAL BOX TO REMAIN. EXISTING HOT WATER SUPPLY AND RETURN PIPING FROM TERMINAL BOX TO SUPPLY/RETURN MAINS TO REMAIN.
- EXISTING HOT WATER SUPPLY AND RETURN PIPING MAINS TO ROOF-MOUNTED AIR HANDLING UNITS TO REMAIN. EXISTING BOILER AND ALL ASSOCIATED APPURTENANCES TO REMAIN. ALL EXISTING HOT WATER SUPPLY AND RETURN PIPING MAINS THROUGHOUT
- BUILDING TO REMAIN. SOME EXISTING HOT WATER CIRCUITS TO INDIVIDUAL TERMINAL BOXES MAY BE DEMOLISHED. NEW HOT WATER CIRCUITS TO RELOCATED TERMINAL BOXES MAY BE REQUIRED. REFER KEYNOTES 2 AND 3.
- 7 EXTEND PIPING TO RELOCATE INDICATED EXISTING HEATING WATER PIPING OUTSIDE
- 8 ALL HWS AND HWR PIPING UP TO AHUS SHALL REMAIN AS EXISITNG. TYP OF 5
- LOCATIONS. 9 GLYCOL POT FEEDER SHALL REMAIN AS EXISTING. MECHANICAL CONTRACTOR SHALL MEASURE EXISTING GLYCOL CONCENTRATION, FLUSH AND CLEAN TANK FOR REMODEL, AND ADD GLYCOL/WATER MIXTURE TO MATCH EXISTING
- CONCENTRATION PRIOR TO STARTUP. EXTEND PIPING TO RELOCATE INDICATED EXISTING HEATING WATER PIPING OUTSIDE FOOTPRINT OF NEW IT ROOM 119. RECONNECT AND FIELD ROUTE. NO HEATING WATER OR CHILLED WATER PIPING SHALL ROUTE DIRECTLY OVERHEAD IT ROOM 119. REFER MECHANICAL PIPING PLAN FOR NEW PROPOSED ROUTE.



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MD1.2

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- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
- ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY. CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP
- EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE
- INSULATION. SEAL ALL JOINTS AND PENETRATIONS. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
- CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS. FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING
- SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
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- PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS NOTED. O ALL REFRIGERANT PIPING SHALL BE INSULATED PER MANUFACTURER'S

(#) KEYNOTES

- UNIT HEATER AND MOTORIZED LOUVER TO REMAIN AS EXISTING EXHAUST DUCT UP TO ROOF IS TO REMAIN AS EXISTING. PROVIDE NEW GRILLES
- AND TIE INTO EXISTING EXHAUST DUCT.
- MOUNT MINI-SPLIT WALL UNIT ABOVE DOOR USING MANUFACTURER'S MOUNTING KIT. REFER MANUFACTURER MOUNTING INSTRUCTIONS. FIELD LOCATE AND MOUNT MINI-SPLIT CONDENSING UNIT ON ROOF MINIMUM 10'-0" FROM ROOF EDGE. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES FROM OTHER EQUIPMENT ON ROOF. ROUTE REFRIGERANT LINES TO INDOOR UNIT AS NEEDED. ROUTE PUMPED CONDENSATE FROM INDOOR UNIT UP TO ABOVE CEILING. TRANSITION TO GRAVITY DRAIN AND SLOPE AT 1/8" PER FOOT TO NEAREST APPROVED RECEPTACLE. TERMINATE WITH AIR GAP.
- 4 VAV TERMINAL UNITS SHALL NOT BE LOCATED DIRECTLY ABOVE ANY LIGHTING FIXTURES THROUGHOUT BUILDING. TYP OF ALL VAVs.
- PROVIDE SOUND BOOT ON ALL UNDUCTED RETURN GRILLES. SOUND BOOT SHALL BE BLACK. REFER TO RETURN AIR SOUND TRAP DETAIL. TYP OF ALL.
- 6 WALL EXTENDS FROM FLOOR TO ROOF DECK. PROVIDE OPENING IN WALL MINIMUM 12" ABOVE CEILING FOR RETURN AIR TRANSFER. REFER PLANS FOR OPENING SIZE.
- RETURN DUCT ELBOW UP. COVER OPENING WITH 1/4" GALVANIZED HARDWARE CLOTH FASTENED TO DUCT WITH TEK SCREWS 3" ON CENTERS.
- 8 RETURN DUCT MAIN DROP INTO PLENUM SPACE. COVER OPENING WITH 1/4" GALVANIZED HARDWARE CLOTH FASTENED TO DUCT WITH TEK SCREWS 3" ON CENTERS AND COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTORS TO PROVIDE PLENUM RATED CABLING.
- SUSPEND UNIT HEATER FROM CONCRETE STRUCTURE WITH MANUFACTURER'S MOUNTING KIT. SET TEMPERATURE TO 50°F TO PREVENT FREEZING.
- PROVIDE NEW REMOTE TEMPERATURE SENSOR WITH CONTROLLER LOCATED IN MECHANICAL ROOM. RELOCATE HVAC CONTROL PANEL APPROXIMATELY 6" AWAY FROM DOOR AND COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE REMOTE THERMOSTATS AS SHOWN.



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1 FLOOR PLAN - HVAC 1/8" = 1'-0"

- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING
- B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
- C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE
- ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC. D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY. CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP
- EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
- COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
- CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS.

FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING

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- PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS NOTED. ALL REFRIGERANT PIPING SHALL BE INSULATED PER MANUFACTURER'S REQUIREMENTS.

KEYNOTES

- NO WATER PIPING SHALL ROUTE ABOVE ELECTRICAL PANELS.
- EXTEND NEW 3/4" SUPPLY AND RETURN HOT WATER PIPING TO RELOCATED TERMINAL BOX FROM NEAREST HOT WATER SUPPLY AND RETURN MAINS.
- EXISTING TERMINAL BOX AND ASSOCIATED HOT WATER PIPING TO REMAIN. TERMINAL BOX MAY NEED ADJUSTMENT IN ORIENTATION FOR SUPPLY AIR DIRECTION. REFER HVAC PLAN FOR CORRECT ORIENTATION.
- EXTEND EQUIVALENTLY SIZED HWS & HWR PIPING TO RELOCATE INDICATED EXISTING HEATING WATER PIPING OUTSIDE FOOTPRINT OF NEW IT ROOM 139. RECONNECT AND FIELD ROUTE. NO HEATING WATER OR CHILLED WATER PIPING SHALL ROUTE DIRECTLY OVERHEAD IT ROOM 139.
- EXTEND PIPING TO RELOCATE INDICATED EXISTING HEATING WATER PIPING OUTSIDE FOOTPRINT OF NEW A/V ROOM 119. RECONNECT AND FIELD ROUTE. NO HEATING WATER OR CHILLED WATER PIPING SHALL ROUTE DIRECTLY OVERHEAD
- 6 GLYCOL POT FEEDER SHALL REMAIN AS EXISTING. MECHANICAL CONTRACTOR SHALL MEASURE EXISTING GLYCOL CONCENTRATION, FLUSH AND CLEAN TANK FOR REMODEL, AND ADD GLYCOL/WATER MIXTURE TO MATCH EXISTING CONCENTRATION PRIOR TO STARTUP.



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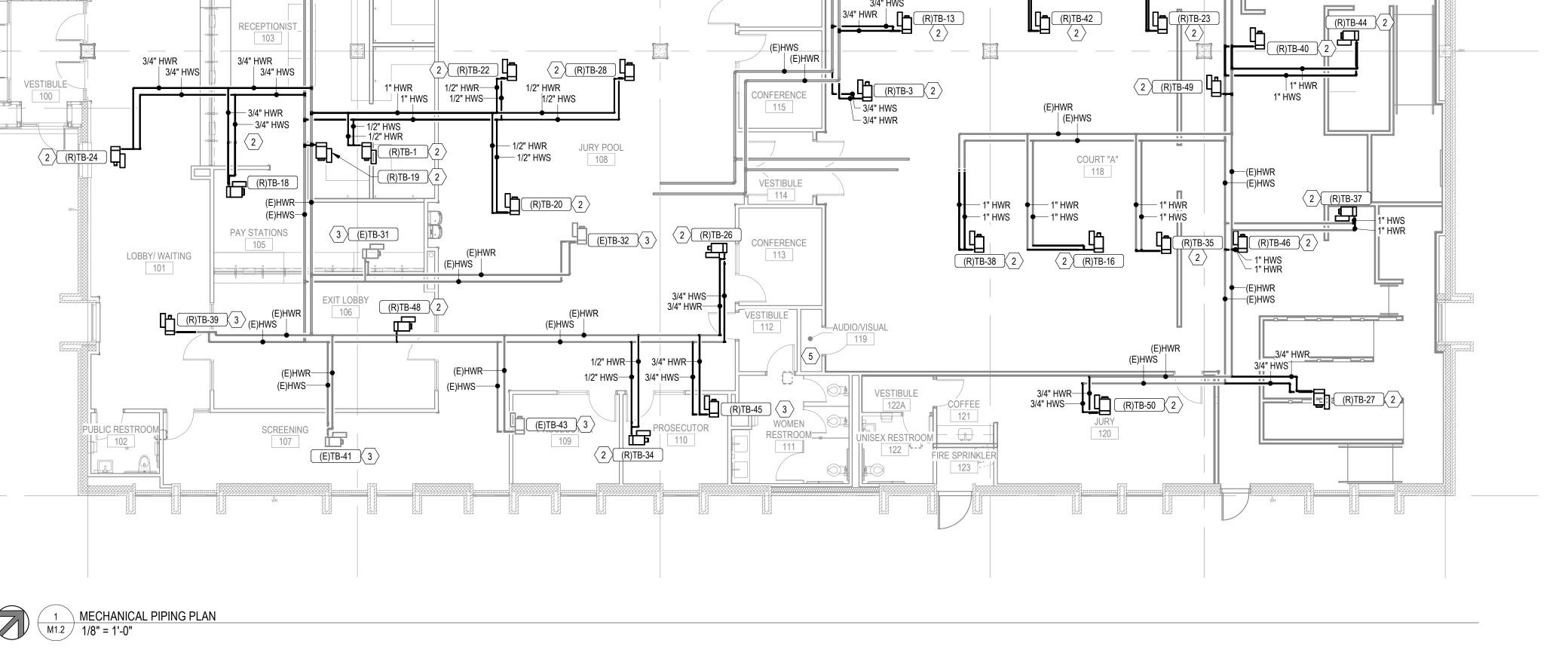
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- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED. F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP
- EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE. G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
- H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- I ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2"
- ACOUSTIC LINING. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS.
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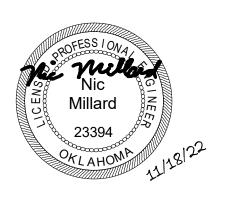
KEYNOTES

- 1 FLUE, VENT, COMBUSTION AIR DUCTS, WEATHERHOODS, AND PIPING PENETRATING ROOF SHALL REMAIN AS EXISTING.
- 2 MOUNT GRAVITY HOOD ON ROOF AND LOCATE 10'-0" MINIMUM FROM OUTSIDE AIR
- 3 REPLACE EXISTING EXHAUST FAN AND TIE INTO EXISTING DUCTWORK.

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3 LIQUID LINE NEED NOT BE INSULATED

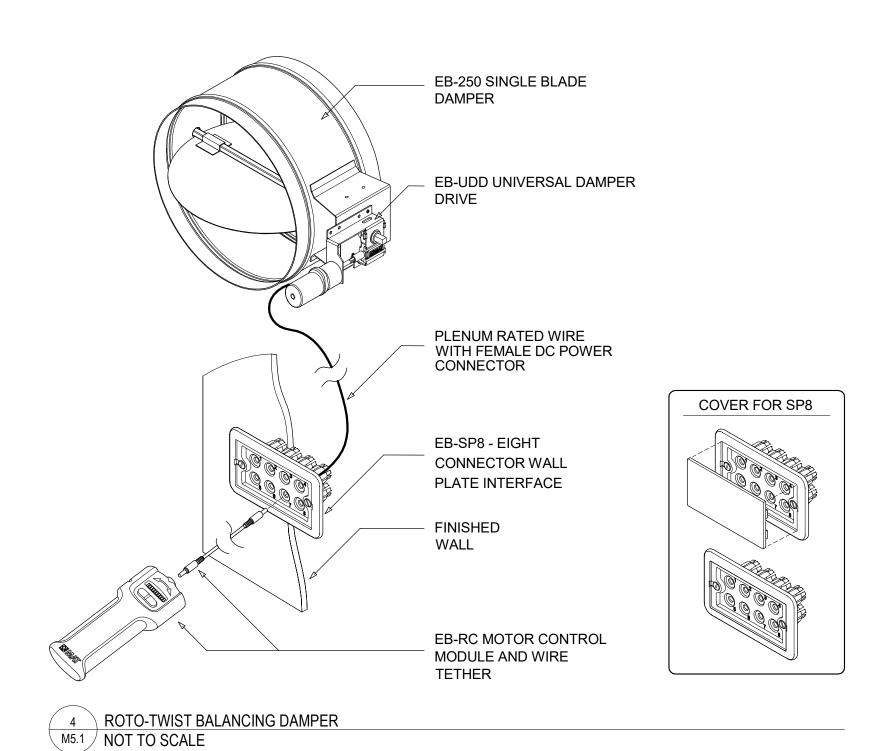
4 WIRING AND PIPING SHOWN ARE GENERAL POINTS-OF-CONNECTION GUIDES ONLY AND ARE NOT INTENDED FOR A SPECIFIC INSTALLATION.

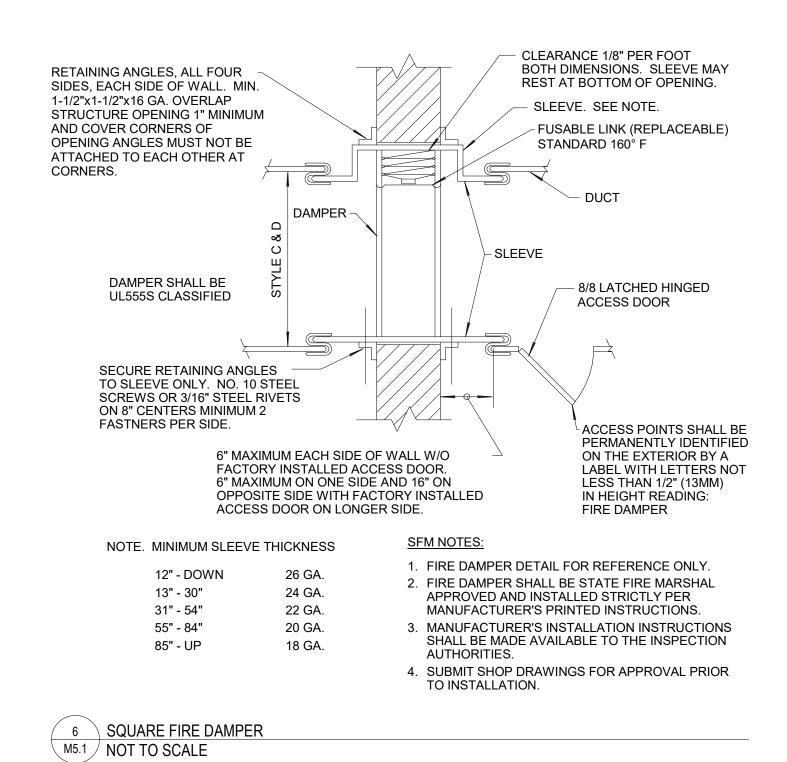
5 INSULATE CONDENSATE DRAIN IF INSTALLED IN A CONDITIONED SPACE.

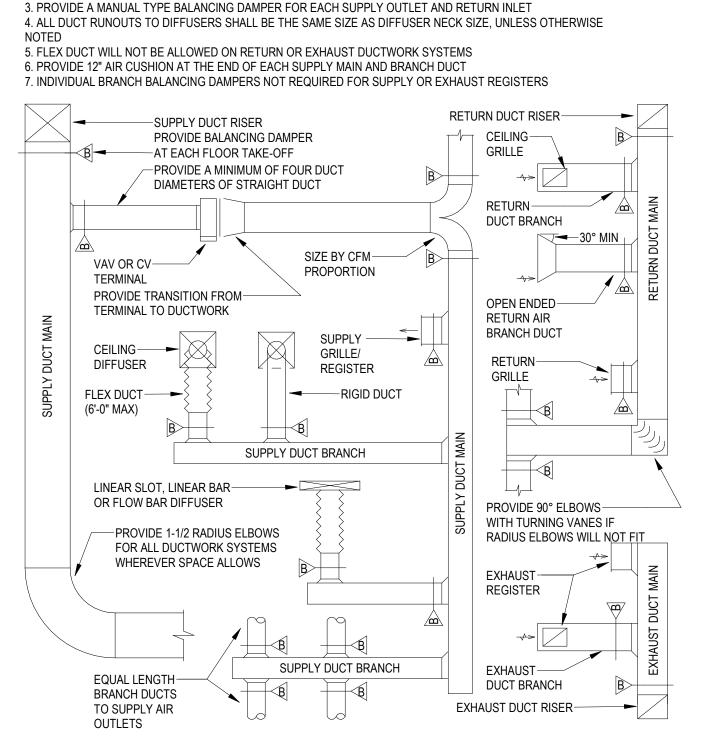
2 WIRES

7 DUCTLESS SPLIT SYSTEM

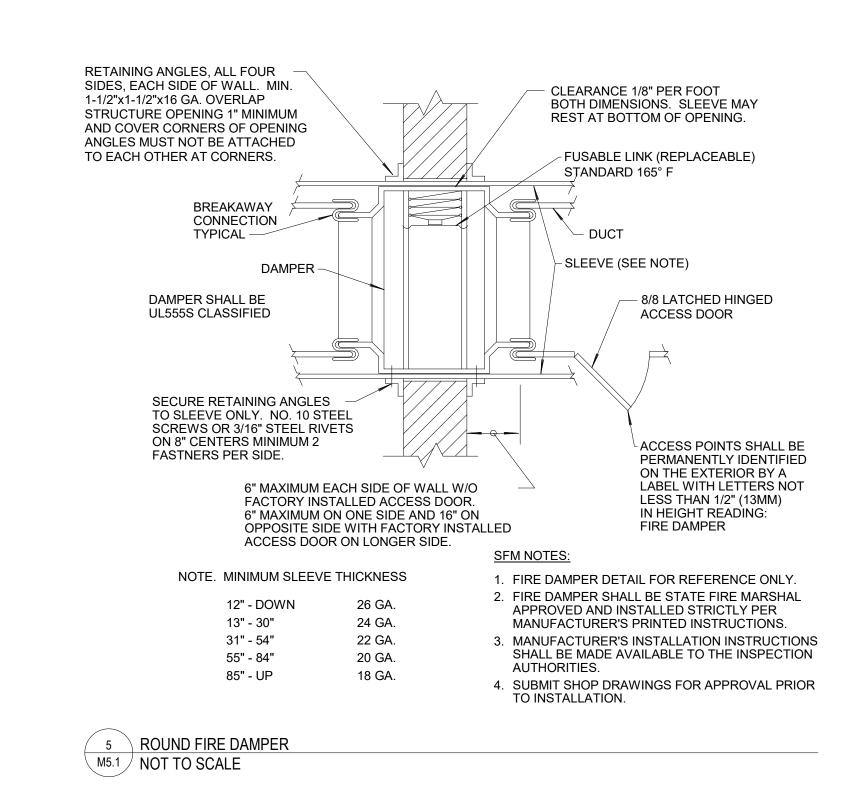
M5.1 NOT TO SCALE

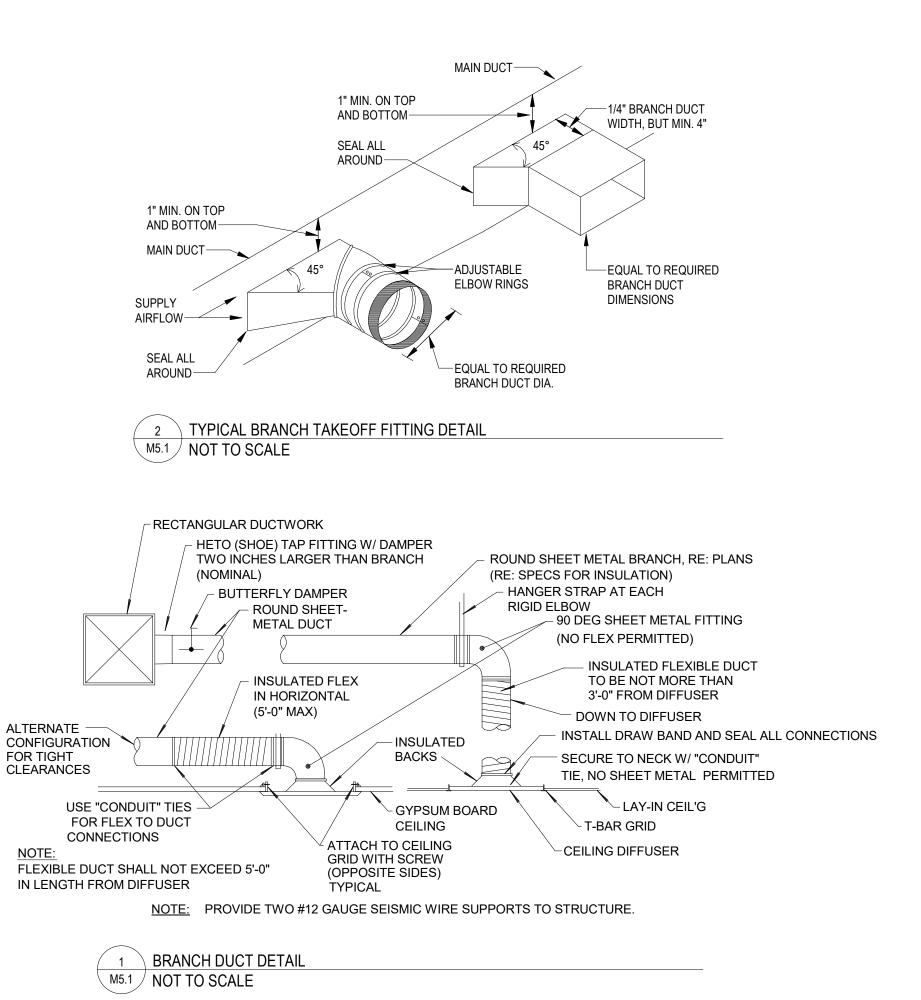






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11/18/22 ISSUED FOR BIDDING

Revisions:

Project Number: CM083319 (201253R)

Sheet Title: **MECHANICAL DETAILS**

Sheet Number:

DUCTWORK INSTALLATION DIAGRAM

NOTES:

1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES

2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES

- HOLE FOR 3/4" CARRIAGE BOLT

4 DUCTMATE CONNECTIONS

ALL FOR CORNERS ARE TO BE INSTALLED WITH DUCTMATE

DC35 CORNER PIECES (4) WITH STAINLESS STEEL 3/4" CARRIAGE BOLT, NUT AND LOCK-WASHER.

- DUCT WALL

M5.2 NOT TO SCALE

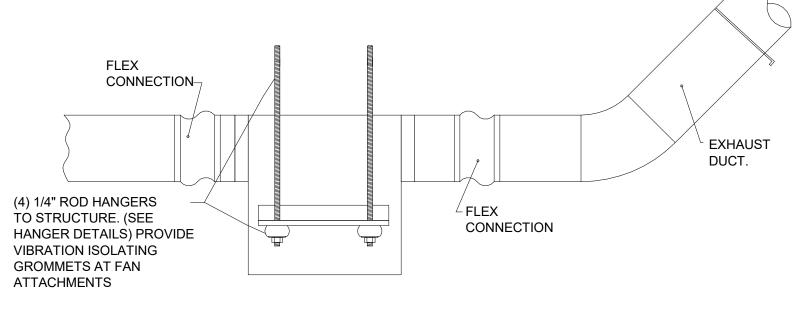
- 12 GA GALVANIZED STEEL DC35 CORNER

DUCT WALL -

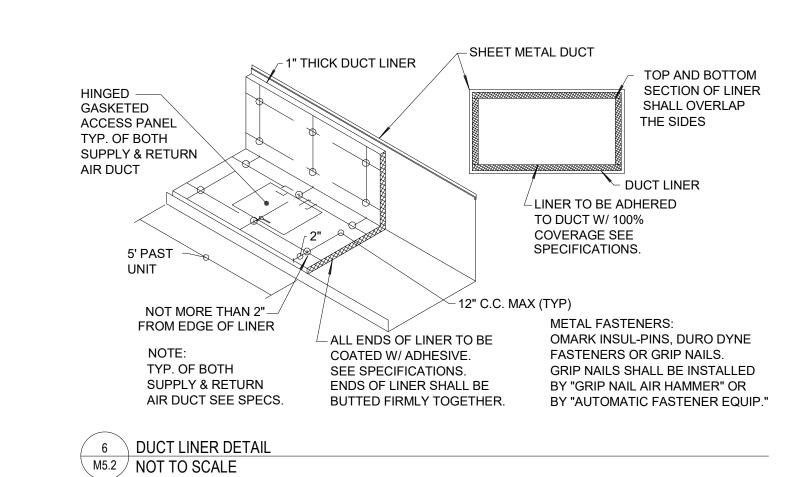
- DUCTMATE

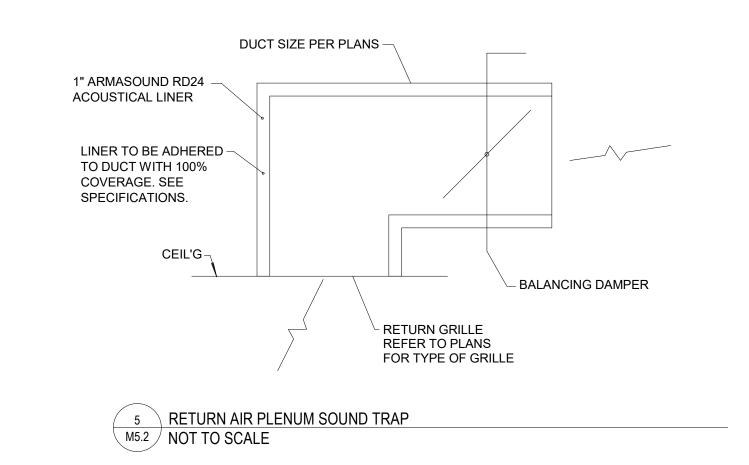
PIECE

FINE MESH START UP SCREEN IN FOR 3 DAYS; REMOVE AND INSTALL MEDIUM MESH STAINLESS STEEL SCREEN. LOOSE FILL INSULATION FIBERGLASS - INSULATION - 28 GA. GALV. CAN - DRAIN VALVE WITH THREADED CONNECTION **INSULATING TAPE** REMOVEABLE CAP 9 Y-STRAINER M5.2 NOT TO SCALE



8 INLINE EXHAUST FAN M5.2 NOT TO SCALE





ROOF DECK OR FLOOR

SEE MECHANICAL PLANS

- CEILING

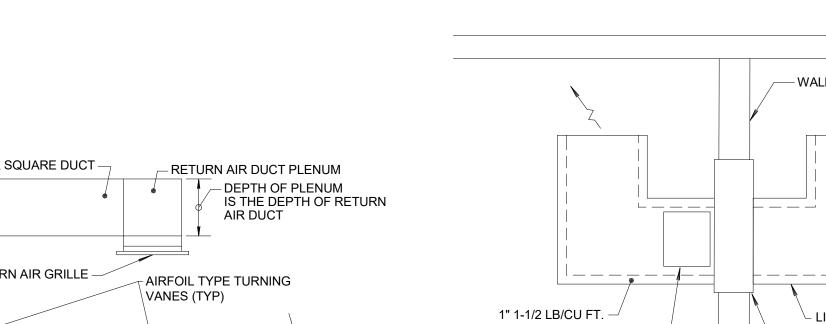
FOR SIZE OF DUCT.

LINER TO BE ADHEARED TO DUCT

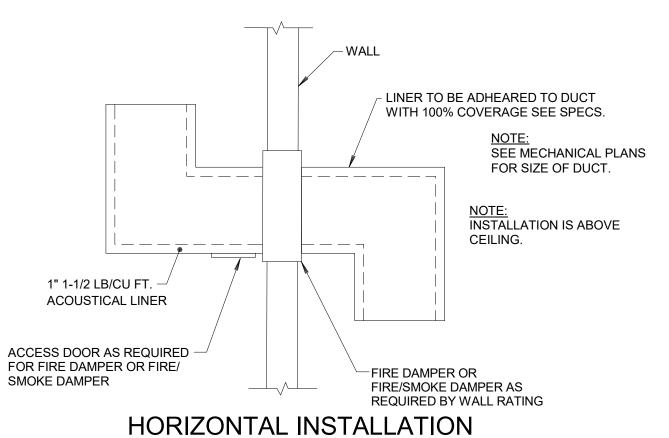
FIRE DAMPER OR

FIRE/SMOKE DAMPER AS REQUIRED BY WALL RATING

WITH 100% COVERAGE SEE SPECS.



SMOKE DAMPER **VERTICAL INSTALLATION**



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NOTE: SEE MECHANICAL PLAN FOR SIZES OF GRILLES AND DUCT

TYPICAL JUMPER DUCT DETAIL

1" ACOUSTICAL LINED JUMPER DUCT (TYPICAL) PLENUM SIZE

IS THE NECK OF GRILLE AND SIZE OF CONNECTING DUCT,

NOT TO SCALE

REFER TO PLANS.

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ROUND DUCT (REFER TO PLANS FOR SIZE)

_1" ACOUSTICAL LINED JUMPER DUCT (TYPICAL) PLENUM SIZE IS THE NECK OF GRILLE AND

SIZE OF CONNECTING DUCT,

REFER TO PLANS.

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Norman

THE MCKINNEY

PARTNERSHIP

architects

3600 West Main

405.360.1400 p

405.364.8287 f

tmparch.com

Norman, Oklahoma

Suite 200

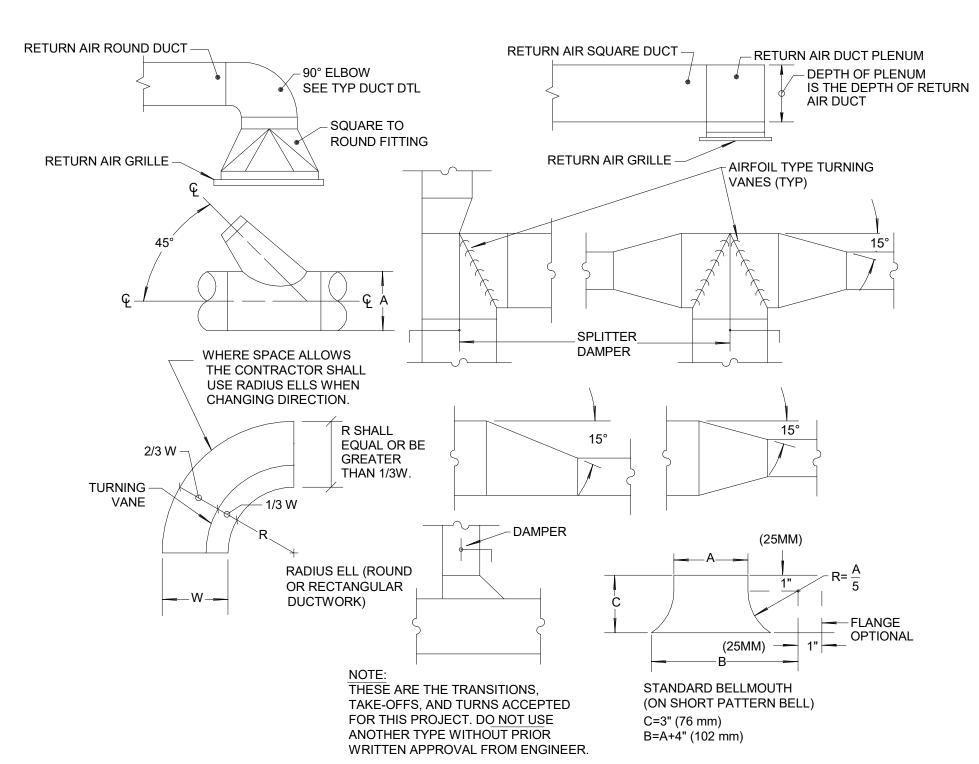
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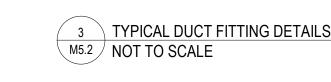
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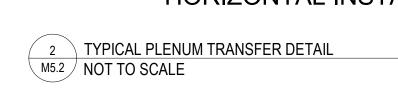
Project Number: CM083319 (201253R)

Sheet Title: **MECHANICAL DETAILS**

Sheet Number:



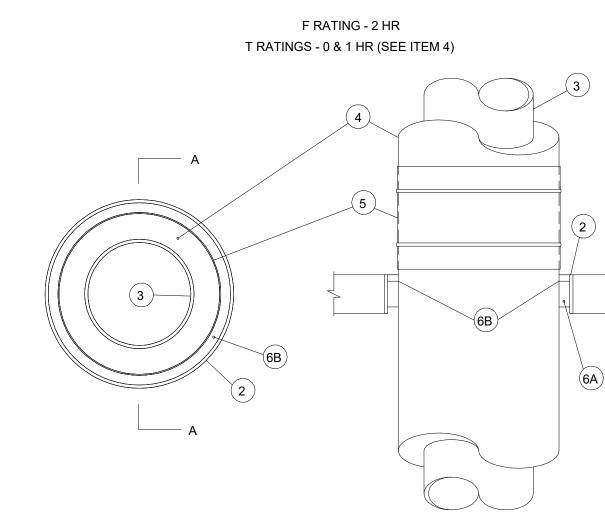




ACOUSTICAL LINER

ACCESS DOOR AS REQUIRED -FOR FIRE DAMPER OR FIRE/





SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 22 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY

FOR NAMES OF MANUFACTURERS. 2. METALLIC SLEEVE (OPTIONAL) - NOM 22 IN. DIAM (OR SMALLER) SCHEDULE 40 STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.

3. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE POSITIONED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.

B. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

C. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER

F RATING - 2 HR T RATINGS - 0 & 1 HR (SEE ITEM 4)

4. PIPE COVERING MATERIALS* - CELLULAR GLASS INSULATION - NOM 1-1/2 IN. OR 3 IN. THICK CELLULAR GLASS PIPE INSULATION SIZED TO THE OUTSIDE DIAM OF THE STEEL PIPE OR TUBE AND INSTALLED IN ACCORDANCE WITH THE MANUFAC-TURER'S INSTRUCTIONS. T RATING IS 0 HR WHEN NOM 1-1/2 IN. THICK PIPE INSULATION IS USED. T RATING IS 1 HR WHEN NOM 3 IN. THICK PIPE INSULATION IS USED. THE ANNULAR SPACE SHALL BE MIN 3/4 IN. TO MAX 3 IN.

5. METAL JACKET - MIN 12 IN. LONG JACKET FORMED OF MIN 0.010 IN. THICK STEEL OR ALUMINUM SHEET CUT TO WRAP TIGHTLY AROUND THE PIPE INSULATION WITH A MIN 2 IN. LAP. JACKET SECURED WITH MIN 1/2 IN. WIDE STAINLESS STEEL HOSE CLAMPS OR BANDS LOCATED WITHIN 2 IN. OF EACH END OF THE JACKET AND SPACED A MAX OF 10 IN. OC. JACKET TO BE INSTALLED WITH ABUTTING SURFACE OF SEALANT (ITEM 6B) ON TOP OF FLOOR OR BOTH SURFACES OF WALL.

6. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING: A. PACKING MATERIAL - MIN 3 IN. THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR WITH BOTH SURFACES OF THE WALL. MATERIAL TO BE IN TUMESCENT FIRE-STOP SEALANT BEARING UL CLASSIFICATION MARKING.

INSTALLATION INSTRUCTIONS FOR UL NO. CAJ5069

STEP 1 PREPARATION: ALL SURFACES MUST BE CLEAN, SOUND, DRAY AND FROST FREE PRIOR TO APPLICATION OF FIRESTOPPING MATERIALS.

STEP 2 PACKING MATERIAL: FIRMLY PACK REQUIRED DEPTH OF MINERAL WALL AROUND PENETRATION ITEM AS PERMINANET FORM. PACKING MATERIAL SHOULD BE RECESSED FROM TOP OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRE THICKNESS OF FIRESTOP SEALANT.

STEP 3 FIRESTOP SEALANT: APPLY THE REQUIRED DEPTH OF FIRESTOP SEALANT OVER THE PACKING MATERIAL WITHIN THE ANNULUS. WALL PENETRATIONS REQUIRE FIRESTOP SEALANT INSTALLED ON BOTH SIDES. TOOL THE SEALANT WITH A PUTTY KNIFE TO PUSH IT IN PLACE AND SMOOTH THE SURFACE. LEAVE COMPLETED SEAL UNDISTURBED FOR 48 HOURS.

STEP 4 INSULATION: INSTALL 12" LONG STEEL OR ALUMINIUM JACKET AROUND INSULATION FLUSH WITH TOP OF FLOOR OR BOTH SIDES OF WALL.

STEEL FRAME - MINIMUM 1 1/4" [32 MM] THICK NEOPRENE ELEMENT WITH PROJECTING ROD ISOLATION BUSHING DEFLECTION SCALE NEOPRENE SPRING CUP WITH PROJECTING ROD ISOLATION BUSHING -SEISMIC UP STOP AND PRECOMPRESSION PLATE WITH NEOPRENE WASHER ROD CAN SWING 30° BEFORE CONTACTING RESILIENT BUSHING

SPRING ISOLATOR

^{M5.3} ∕ NOT TO SCALE

CONTROLS GENERAL NOTES: MECHANICAL CONTRACTOR SHALL SUBCONTRACT WITH ES2 COMPANY, OKLAHOMA CITY, OK FOR ALL CONTROLS WORK. PH. (405) 528-4500

CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A SYSTEM OF CONTROLS INCLUDING CONTROLLERS, VALVES, DAMPERS, SENSORS, SWITCHES ACTUATORS, WIRING, RELAYS, PROGRAMMING, AND COMMISSIONING AS REQUIRED TO PROVIDE THE DESIRED SEQUENCE OF OPERATION. PROVIDE INTEGRATED WIRING DIAGRAMS SHOWING INTERACTIONS BETWEEN FIELD INSTALLED EQUIPMENT AND WIRING PROVIDED WITH THE HVAC EQUIPMENT.

REFERENCE MECHANICAL DRAWINGS FOR LOCATION OF ALL CONTROLS RELATED ITEMS.

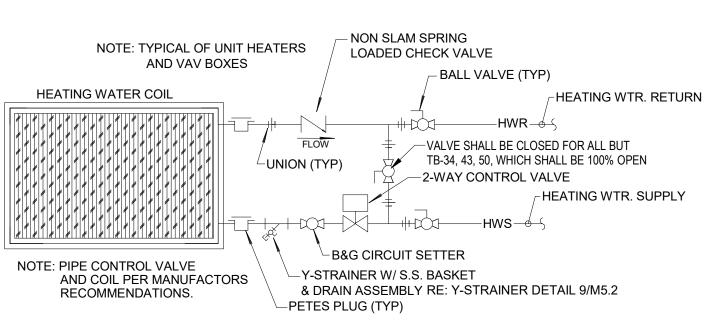
PROVIDE SUPERVISION AND JOG CHECKOUT SERVICE AS REQUIRED TO ENSURE THAT THE INSTALLATION MEETS REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING THE ACCEPTANCE OF THE SYSTEM BY THE ARCHITECT/ENGINEER, CORRECT DEFECTS OCCURING DURING THAT PERIOD AT NO COST TO THE OWNER.

ALL EXISTING EQUIPMENT AND CONTROLLERS TO REMAIN OR TO BE RELOCATED SHALL BE FULLY COMMISSIONED AT COMPLETION OF WORK. PROVIDE A LIST OF ANY BROKEN OR MALFUNCTIONING EQUIPMENT TO THE GENERAL CONTRACTOR. EXISTING EQUIPMENT TO BE COMMISSIONED INCLUDES CHILLED AND HEATING WATER SYSTEMS, ATUS, VAV BOXES, AND FANS.

CONTRACTOR SHALL PROVIDE REMOTE 'READ ONLY ACCESS OF THE CONTROLS TO THE ENGINEER FOR A MI IMUM PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. ACCESS SHALL INCLUDE ABILITY TO SEE AND SET UP TRENDS OF ALL AVAILABLE POINTS. PROVIDE MINIMUM ALLOWANCE OF 8 HOURS ON SITE OR REMOTE TO ASSIST THE ENGINEER WITH FUNCTIONAL TESTING OF PROPER OPERATION OF EQUIPMENT

RECTANGULAR TO ROUND CONNECTION AS INDICATED FASTEN AND SEAL DUCT CONNECTION MIN. 4 DUCT DIA. RIGID DUCT 3' MINIMUM TO 1ST BRANCH RUNOUT VAV BOX FLEX CONNECTION -SPLITTER AND TRANSITION DAMPER & BOOT SIDE CONTROL HYDRONIC REHEAT CONNECTOR OR SPIN **ENCLOSURE** PIPING CONNECTIONS COLLAR CONNECTION W/ 42" MIN CLEARANCE

\ DUCT-VAV TERMINAL CONNECTION M5.3 / NOT TO SCALE



HEATING WATER COIL PIPING DIAGRAM √M5.3 / NOT TO SCALE

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MECHANICAL DETAILS

Sheet Number:

PIPING FIRE PROTECTION SEAL M5.3 NOT TO SCALE

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architects

3600 West Main

405.360.1400 p 405.364.8287 f tmparch.com

Norman, Oklahoma

Suite 200

73072

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		(E	XISTING/REL	OCAT	ED) V	ARIABL	E AIR V		ERMINA	L UNIT S	SCHEDI	ULE			
	LOCATION	•			,		AIRFLOW			HEATING					
	LOCATION					TRIMAKT	AIRI LOW			AIRSIE			WATERSIDE		
				MODEL	NECK				DESIGN					UNIT	
ID	NAME	NO.	MANUFACTURER	NO.	SIZE	MAX	MIN	CAP	FLOW	EAT(db)	LAT(db)	ROWS	FLOW	WEIGHT	REMARKS
TB-1	RECEPTIONIST	103	TITUS	DESV	6"	425 CFM	130 CFM	9705 Btu/h	225 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-2	COURT ADMIN	126	TITUS	DESV	6"	400 CFM	120 CFM	9058 Btu/h	210 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-3	COURT "A"	118	TITUS	DESV	5"	350 CFM	105 CFM	7764 Btu/h	180 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-4	JUVENILE COORD.	144	TITUS	DESV	5"	350 CFM	105 CFM	7764 Btu/h	180 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-5	ADMIN TECH 4	143	TITUS	DESV	6"	360 CFM	110 CFM	7980 Btu/h	185 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-6	WOMEN RESTROOM	142	TITUS	DESV	4"	140 CFM	45 CFM	4313 Btu/h	100 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-7	CORRIDOR	125	TITUS	DESV	5"	200 CFM	60 CFM	6470 Btu/h	150 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-8	ADMIN JUDGE	133	TITUS	DESV	6"	425 CFM	130 CFM	8627 Btu/h	200 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-9	ADMIN JUDGE	133	TITUS	DESV	5"	300 CFM	90 CFM	6902 Btu/h	160 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-10	ADMIN. IV	129	TITUS	DESV	5"	350 CFM	105 CFM	7764 Btu/h	180 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-11	PROBATION OFFICER	128	TITUS	DESV	6"	380 CFM	115 CFM	8627 Btu/h	200 CFM	55.0 °F	95.0 °F	1	0.7 GPM	37 lb	ALL
TB-12	CORRIDOR	125	TITUS	DESV	4"	200 CFM	60 CFM	8627 Btu/h	200 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-13	COURT "A"	118	TITUS	DESV	6"	450 CFM	135 CFM	10784 Btu/h	250 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-14	WORKROOM	150	TITUS	DESV	5"	300 CFM	90 CFM	6902 Btu/h	160 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-15	SUPERVISOR	152	TITUS	DESV	5"	325 CFM	100 CFM	6902 Btu/h	160 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-16	COURT "A"	118	TITUS	DESV	5"	325 CFM	100 CFM	6902 Btu/h	160 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-17	CONFERENCE	130	TITUS	DESV	6"	450 CFM	135 CFM	10352 Btu/h	240 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-18	LOBBY/ WAITING	101	TITUS	DESV	9"	800 CFM	240 CFM	18117 Btu/h	420 CFM	55.0 °F	95.0 °F	2	1.3 GPM	55 lb	ALL
TB-19	RECEPTIONIST	103	TITUS	DESV	9"	700 CFM	210 CFM	15529 Btu/h	360 CFM	55.0 °F	95.0 °F	1	1.1 GPM	46 lb	ALL
TB-20	JURY POOL	108	TITUS	DESV	7"	600 CFM	180 CFM	15097 Btu/h	350 CFM	55.0 °F	95.0 °F	2	1.1 GPM	46 lb	ALL
TB-21	BREAK	137	TITUS	DESV	4"	225 CFM	70 CFM	4961 Btu/h	115 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-22	JURY POOL	108	TITUS	DESV	7"	600 CFM	180 CFM	14019 Btu/h	325 CFM	55.0 °F	95.0 °F	2	1.0 GPM	46 lb	ALL
TB-23	COURT "A"	118	TITUS	DESV	7"	500 CFM	150 CFM	10784 Btu/h	250 CFM	55.0 °F	95.0 °F	1	0.8 GPM	39 lb	ALL
TB-24	LOBBY/ WAITING	101	TITUS	DESV	4"	200 CFM	60 CFM	4313 Btu/h	100 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-25	MENTAL HEALTH COORD.	135	TITUS	DESV	4"	200 CFM	60 CFM	4313 Btu/h	100 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-26	JURY POOL	108	TITUS	DESV	5"	300 CFM	90 CFM	6470 Btu/h	150 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-27	COURT "A"	118	TITUS	DESV	9"	900 CFM	270 CFM	19842 Btu/h	460 CFM	55.0 °F	95.0 °F	2	1.5 GPM	55 lb	ALL
TB-28	JURY POOL	108	TITUS	DESV	7"	600 CFM	180 CFM	13372 Btu/h	310 CFM	55.0 °F	95.0 °F	2	1.0 GPM	46 lb	ALL
TB-29	COURT "B"	140B	TITUS	DESV	9"	920 CFM	280 CFM	21567 Btu/h	500 CFM	55.0 °F	95.0 °F	2	1.6 GPM	55 lb	ALL
TB-30	BAILIFF/ COURT REPORTER	132	TITUS	DESV	6"	370 CFM	115 CFM	8196 Btu/h	190 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-31	PAY STATION	105	TITUS	DESV	6"	360 CFM	110 CFM	8196 Btu/h	190 CFM	55.0 °F	95.0 °F	1	0.6 GPM	37 lb	ALL
TB-32	JURY POOL	108	TITUS	DESV	7"	600 CFM	180 CFM	13803 Btu/h	320 CFM	55.0 °F	95.0 °F	2	1.0 GPM	46 lb	ALL
TB-33	OFFICERS/ WARRANTS	146	TITUS	DESV	9"	800 CFM	240 CFM	18117 Btu/h	420 CFM	55.0 °F	95.0 °F	2	1.3 GPM	55 lb	ALL
TB-34	PROSECUTOR	110	TITUS	DESV	5"	300 CFM	90 CFM	6470 Btu/h	150 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-35	COURT "A"	118	TITUS	DESV	6"	420 CFM	130 CFM	9058 Btu/h	210 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-36	CORRIDOR	125	TITUS	DESV	4"	200 CFM	60 CFM	4313 Btu/h	100 CFM	55.0 °F	95.0 °F	1	0.5 GPM	37 lb	ALL
TB-37	COURT "A"	118	TITUS	DESV	7"	550 CFM	165 CFM	12509 Btu/h	290 CFM	55.0 °F	95.0 °F	2	0.9 GPM	46 lb	ALL
TB-38	COURT "A"	118	TITUS	DESV	6"	400 CFM	120 CFM	9058 Btu/h	210 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-39	LOBBY/ WAITING	101	TITUS	DESV	4"	200 CFM	60 CFM	8627 Btu/h	200 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-40	COURT "A"	118	TITUS	DESV	6"	450 CFM	135 CFM	10352 Btu/h	240 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-41	SCREENING	107	TITUS	DESV	6"	425 CFM	130 CFM	9490 Btu/h	220 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-42	COURT "A"	118	TITUS	DESV	6"	450 CFM	135 CFM	10352 Btu/h	240 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-43	PROSECUTOR	109	TITUS	DESV	6"	450 CFM	135 CFM	10352 Btu/h	240 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-44	COURT "A"	118	TITUS	DESV	7"	550 CFM	165 CFM	12078 Btu/h	280 CFM	55.0 °F	95.0 °F	2	0.9 GPM	46 lb	ALL
TB-45	PROSECUTOR	110	TITUS	DESV	6"	400 CFM	120 CFM	10784 Btu/h	250 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-46	COURT "A"	118	TITUS	DESV	6"	450 CFM	135 CFM	9921 Btu/h	230 CFM	55.0 °F	95.0 °F	2	0.8 GPM	43 lb	ALL
TB-47	MEDITION COORD.	134	TITUS	DESV	6"	425 CFM	130 CFM	9490 Btu/h	220 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-48	EXIT LOBBY	106	TITUS	DESV	7"	500 CFM	150 CFM	11215 Btu/h	260 CFM	55.0 °F	95.0 °F	1	0.8 GPM	39 lb	ALL
TB-49	COURT "A"	118	TITUS	DESV	4"	200 CFM	60 CFM	8627 Btu/h	200 CFM	55.0 °F	95.0 °F	2	0.7 GPM	43 lb	ALL
TB-50	JURY	120	TITUS	DESV	9"	700 CFM	210 CFM	15529 Btu/h	360 CFM	55.0 °F	95.0 °F	1	1.1 GPM	46 lb	ALL

- . CONTRACTOR IS TO FIELD VERIFY EQUIPMENT IS OPERATIONAL AND REPLACE ANY DAMAGED OR NONOPERATIONAL UNITS OR COMPONENTS SUCH AS DOOR HINGE OR MOTORIZED DAMPER. CLEAN COILS, DAMPER, AND INTERIOR OF EQUIPMENT AND REPLACE ANY FALLING OR TORN INSULATION.
- NO VAV TERMINAL BOXES SHALL BE LOCATED DIRECTLY ABOVE LIGHT FIXTURES. 3. ALL VAV TERMINAL BOXES TO REMAIN.
- . TRANSFORMER AND LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR
- DISCONNECT, UNMOUNT, AND PRESERVE EXISTING VAV TERMINAL BOX UNIT FOR RE-USE. PRESERVE HW VALVE, ACTUATOR, CONTROLS AND ALL OTHER APPURTENANCES FOR RE-USE. DEMOLISH EXISTING HW SUPPLY/RETURN LOOP TO TERMINAL BOX BACK TO MAINS AND CAP. RELOCATE TO AND MOUNT IN NEW LOCATION SHOWN ON PLANS. EXTEND AND CONNECT NEW 3/4" HOT WATER SUPPLY AND RETURN PIPING FROM NEAREST HOT WATER MAINS. EXISTING VAV TERMINAL BOX UNIT TO REMAIN IN PLACE. TERMINAL BOX MAY REQUIRE SLIGHT ADJUSTMENT IN ORIENTATION TO ACHIEVE DESIRED AIRFLOW
- DIRECTION OR TO MAINTAIN WORKING CLEARANCES. DEMOLISH ASSOCIATED DUCTS CONNECTED TO TERMINAL BOX AND REPLACE PER HVAC PLAN.

	GF	RILLES, REG	ISTEF	RS AI	ND D	IFFUS	ERS S	CHEDULE	
				FACE		NECK		INSTALLATION	
ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	SIZE	WIDTH	HEIGHT	BORDER TYPE	NOTES
CD1	PLAQUE FACE DIFFUSER	TITUS	OMNI	24x24	6"			TYPE 3 (LAY-IN)	ALL
CD1	PLAQUE FACE DIFFUSER	TITUS	OMNI	24x24	8"			TYPE 3 (LAY-IN)	ALL
CD1	PLAQUE FACE DIFFUSER	TITUS	OMNI	24x24	10"			TYPE 3 (LAY-IN)	ALL
CD1	PLAQUE FACE DIFFUSER	TITUS	OMNI	24x24	12"			TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL			6"	6"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL			8"	8"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL			10"	8"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL	24x12		6"	6"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL	24x12		10"	10"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RL	24x24		10"	10"	TYPE 3 (LAY-IN)	ALL
RG1	LOUVERED GRILLE	TITUS	350RI	24x24		22"	22"	TYPE 3 (LAY-IN)	ALI

- NOTED. COORDINATE MOUNTING FRAME REQUIREMENTS WITH OTHER TRADES PRIOR TO ORDERING ANY DEVICE. PROVIDE WITH LAY-IN FRAMES FOR HARD CEILINGS. COORDINATE WITH ARCHITECTURAL PLANS. PROVIDE WITH OPPOSED BLADE DAMPER INTEGRATED WITH AIR DEVICE IN AREAS WITH INACCESSIBLE CEILINGS. (RETURN AND EXHAUST DEVICES ONLY)

AIR DEVICES SHALL HAVE MANUFACTURER'S STANDARD CONSTRUCTION WITH WHITE FINISH UNLESS OTHERWISE

THROUGHOUT BUILDING. SOUND BOOT SHALL BE

PROVIDE SOUND BOOT ON ALL UNDUCTED RETURN GRILLES T
BLACK. REFER RETURN AIR SOUND TRAP DETAIL.

	LOCAT	ION			OUTSIDE AIR	COOLING COIL	GAS-FIRED HX			
				SUPPLY		CAP	GAS BURNER			
ID	NAME	NO.	MANUFACTURER	AIRFLOW	FLOW	TOTAL	CAP	VOLT	PH	REMARK
AHU-1	ROOF	-	TRANE	3700 CFM	300 CFM	110000 Btu/h	178200 Btu/h	480 V	3	1,2
AHU-2	ROOF	-	TRANE	7600 CFM	1650 CFM	260000 Btu/h	178200 Btu/h	480 V	3	ALL
AHU-3	ROOF	-	TRANE	5600 CFM	600 CFM	130000 Btu/h	178200 Btu/h	480 V	3	1,2
AHU-4	ROOF	-	TRANE	1700 CFM	280 CFM	50000 Btu/h	178200 Btu/h	480 V	3	1,2
AHU-5	ROOF	-	TRANE	2400 CFM	300 CFM	72000 Btu/h	178200 Btu/h	480 V	3	1,2

LOCATION

1. ALL EXISTING AIR HANDLERS ON ROOF TO REMAIN. ALL EXISTING CHILLED AND HOT WATER PIPING LOOPS TO AIR HANDLERS TO REMAIN.

ADJUST OUTSIDE AIR INTAKE PER SCHEDULE FOR NEW OCCUPANCY/USE. MECHANICAL CONTROLS CONTRACTOR TO REVISE DESIGN OUTSIDE AIR INTAKE VOLUME.

PROVIDE EXISTING AIR HANDLER WITH BIPOLAR IONIZATION KIT, INSTALLED BY MECHANICAL CONTRACTOR.

					EXHA	UST FA	N SCHE	DULE	Ē							
LOCATION						FAN								INTERLOCK		
						AIRFLOW	PRESS		MOTOR	UNIT						
ID	NAME	NO.	MANUFACTURER	MODEL NO.	TYPE	DESIGN	ESP	RPM	POWER	WEIGHT	FLA	MOCP	VOLT	PH	ID	REMARKS
F-1	HOLDING TOILET	149	GREENHECK	CSP-A200	INLINE	70 CFM	0.50 in-wg	825	0.06 hp	30 lb	0.5 A	15.0 A	115 V	1	LIGHTS	1
F-2	UNISEX RESTROOM	122	GREENHECK	CSP-A200	INLINE	70 CFM	0.50 in-wg	825	0.06 hp	30 lb	0.5 A	15.0 A	115 V	1	LIGHTS	1
F-3	PUBLIC RESTROOM	102	GREENHECK	CSP-A200	INLINE	70 CFM	0.50 in-wg	825	0.06 hp	30 lb	0.5 A	15.0 A	115 V	1	LIGHTS	1
F-4	WOMEN RESTROOM	111	GREENHECK	CSP-A290	INLINE	210 CFM	0.50 in-wg	1050	0.12 hp	30 lb	0.8 A	15.0 A	115 V	1	LIGHTS	1
F-5	MEN RESTROOM	117	GREENHECK	CSP-A290	INLINE	210 CFM	0.50 in-wg	1050	0.12 hp	30 lb	0.8 A	15.0 A	115 V	1	LIGHTS	1
F-6	ROOF	-	GREENHECK	G-095-VG	ROOF	260 CFM	0.50 in-wg	1454	0.17 hp	30 lb	2.8 A	15.0 A	115 V	1	LIGHTS	1
F 7	POOE		CDEENILECK	C 007 VC	DOOE	70 CEM	0.25 in wa	909	0.25 hn	20 lh	3 0 V	15 O A	115 \/	1	TOTAT	ALI

 EF-7
 ROOF
 GREENHECK
 G-097-VG
 ROOF
 70 CFM
 0.25 in-wg
 808
 0.25 hp
 38 lb
 3.8 A
 15.0 A
 115 V
 1
 TSTAT
 ALL

PROVIDE INTEGRAL DISCONNECT SWITCH, BACKDRAFT DAMPER, FLEX CONNECTIONS ON INLET/OUTLET, AND VIBRATION ISOLATORS WHERE APPLICABLE.

INTERLOCK FAN WITH THERMOSTAT SET FOR 80°F.

			GRAVITY VENTILATOR SCHEDULE									
INTERLOCK				LOCATI	ON			HOOD		DIMEN	SIONS	
								AIRFLOW		THR	DAT	
ID	REMARKS		ID	NAME	NO.	MANUFACTURER	MODEL NO.	MAX	PD	WIDTH	LENGTH	REMARKS
LIGHTS	1		GH-2	ROOF	-	GREENHECK	GRSR	250 CFM	0.10 in-wg	1' - 8 1/2"	1' - 8 1/2"	ALL
LIGHTS	1		GH-3	ROOF	-	GREENHECK	GRSR	250 CFM	0.10 in-wg	1' - 8 1/2"	1' - 8 1/2"	ALL
LIGHTS	1		GH-4	ROOF	-	GREENHECK	GRSR	250 CFM	0.10 in-wg	1' - 8 1/2"	1' - 8 1/2"	ALL
LIGHTS	1		GH-5	ROOF	-	GREENHECK	GRSR	250 CFM	0.10 in-wg	1' - 8 1/2"	1' - 8 1/2"	ALL
LIGHTS	1		GH-6	ROOF	-	GREENHECK	GRSR	250 CFM	0.10 in-wg	1' - 8 1/2"	1' - 8 1/2"	ALL
LIGHTS	1		NOTEC	·-		_			_			·
	ID LIGHTS LIGHTS LIGHTS LIGHTS LIGHTS LIGHTS	ID REMARKS LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1	ID REMARKS LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1 LIGHTS 1	ID REMARKS LIGHTS 1 LIGHTS 1	ID REMARKS LIGHTS 1 GH-5 ROOF GH-6 ROOF	ID REMARKS ID NAME NO.	INTERLOCK ID REMARKS LIGHTS 1 GH-2 ROOF - GREENHECK LIGHTS 1 GH-3 ROOF - GREENHECK LIGHTS 1 GH-4 ROOF - GREENHECK LIGHTS 1 GH-5 ROOF - GREENHECK LIGHTS 1 GH-6 ROOF - GREENHECK LIGHTS 1	INTERLOCK ID NAME NO. MANUFACTURER MODEL NO. LIGHTS 1 GH-2 ROOF - GREENHECK GRSR LIGHTS 1 GH-3 ROOF - GREENHECK GRSR LIGHTS 1 GH-4 ROOF - GREENHECK GRSR LIGHTS 1 GH-5 ROOF - GREENHECK GRSR LIGHTS 1 GH-6 ROOF - GREENHECK GRSR LIGHTS 1 GH-6 ROOF - GREENHECK GRSR	LOCATION HOOD AIRFLOW	LOCATION HOOD AIRFLOW AIRFLOW D NAME NO. MANUFACTURER MODEL NO. MAX PD	D REMARKS ID NAME NO. MANUFACTURER MODEL NO. MAX PD WIDTH	LOCATION LOCATION AIRFLOW THROAT

. PROVIDE WITH ROOF CURB TO MATCH ROOF SLOPE. 2. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

MCU-1 ROOF - LG Electronics LSU120HSV5 CONDENSING UNIT 1.0 ton 22.7 74 lb 10.0 A 15.0 A 208 V 1 MS-1 ALL

PROVIDE MANUFACTURER INSTALLED LOW AMBIENT KIT, WINTER START CONTROL, AND CRANKCASE HEATER.

COMPRESSOR NAME NO. MANUFACTURER MODEL NO. DESCRIPTION CAP SEER WEIGHT MCA MOCP VOLT PH ID REMARKS

B. PROVIDE WITH ALUMINUM BIRDSCREEN. 4. PROVIDE WITH ANTI-CONDENSATE COATING.

5. HOOD SHALL BE ALUMINUM CONSTRUCTION

		COOLING					1
	FAN	COIL				INTERLOCK	
MODEL NO.	DESIGN AIRFLOW	NOMINAL CAP	UNIT WEIGHT	VOLT	PH	ID	REMARKS
LSN120HSV5	450 CFM	1.0 ton	18 lb	208 V	1	MCU-1	ALL
		MODEL NO. AIRFLOW	MODEL NO. AIRFLOW CAP	MODEL NO. AIRFLOW CAP WEIGHT	MODEL NO. AIRFLOW CAP WEIGHT VOLT	MODEL NO. AIRFLOW CAP WEIGHT VOLT PH	MODEL NO. AIRFLOW CAP WEIGHT VOLT PH ID

PROVIDE WITH INTEGRAL CONDENSATE PUMP AND PROGRAMMABLE THERMOSTAT. REFER TO WASTE & VENT PLAN TO DRAIN TO CONDENSATE RECEPTACLE.

			ELECTRIC UI	NIT HEATEI	R SCHEDU	LE				
	LOCATION				AIRFLOW	HEATING ELEMENT				
ID	NAME	NO.	MANUFACTURER	MODEL NO.	DESIGN	POWER	FLA	VOLT	PH	REMARKS
EUH-1	FIRE SPRINKLER	123	REZNOR	EGW	300 CFM	2 kW	12.5 A	240 V	1	ALL
NOTES	.									

1. PROVIDE INTERNAL SINGLE STAGE THERMOSTAT WITH 55°F SET-POINT AND INTEGRAL DISCONNECT SWITCH.

INSTALL WITH MANUFACTURER RECOMMENDED HANGING BRACKET.

2. PROVIDE MANUFACTURER RECOMMENDED WIND BAFFLES AND HAIL GUARD. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY SHUTDOWN AND STARTUP THAT IS NECESSARY FOR THIS SCOPE OF WORK. CLEAN AND RESTORE EXISTING BOILER, CHILLER, ROOFTOP

AHUS, VAVS, PUMPS, AND POT FEEDER TO GOOD WORKING ORDER FOR REUSE IN SCOPE OF WORK.

REPLACE FILTERS FOR EXISTING AHUS. DEMOLISH AND PROVIDE NEW DUCTWORK, AIR DEVICES, AND

REMOTE TEMPERATURE SENSORS UNLESS NOTED OTHERWISE AND RESTORE ANY THAT ARE

EXISTING TO REMAIN. DISCONNECT AND SALVAGE RELOCATED VAVs FOR REUSE IN SCOPE OF WORK.

MECHANICAL CONTRACTOR IS TO MEASURE EXISTING GLYCOL CONCENTRATION AND COORDINATE MEANS AND METHODS OF DRAINING THE SYSTEM TO REROUTE HYDRONIC PIPING SYSTEMS. ADD GLYCOL/WATER MIXTURE TO MATCH EXISTING CONCENTRATION PRIOR TO STARTUP.

GENERAL NOTE: DUCT DIMENSIONS LISTED ON DRAWINGS REPRESENT THE AIRFLOW FREE AREAS AND DO NOT HAVE ALLOWANCES FOR INSULATION LINER, WHERE APPLICABLE, INSIDE THE DUCTS, OR DUAL WALL DIMENSIONS. DUCTS SHALL BE CONSTRUCTED TO INCLUDE INSULATION REQUIREMENTS AND MAINTAIN AIRFLOW DIMENSIONS INDICATED ON PLANS. NOTE: NO LINED DUCT IN KITCHEN

	MECHANICAL DUCTAL		
	MECHANICAL DUCT WC	ORK & INSULATION SCHEDULE	
SERVICE	DUCT TYPE	INSULATION TYPE	INSULATION THICKNESS
ALL LOW PRESSURE CONSTANT VOLUME SUPPLY AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL LOW PRESSURE RETURN AIR DUCT FROM AIR HANDLER OR PACKAGED UNIT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES CONCEALED ABOVE CEILINGS	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
ALL SUPPLY AIR DIFFUSERS (BACKSIDE, NOT EXPOSED TO SPACE)	N/A	FIBERGLASS WRAP	2" WRAP, R VALUE=6.0
FRESH AIR EXHAUST DUCT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER, AS INDICATED ON PLANS. N/A IF IN UNCONDITIONED SPACE	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
FRESH AIR SUPPLY DUCT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER, AS INDICATED ON PLANS. N/A IF IN UNCONDITIONED SPACE	2" WRAP OR 1-1/2" LINER, R VALUE=6.0
RESTROOM EXHAUST DUCT	ROUND OR RECTANGULAR, AS INDICATED ON PLANS.	FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER, AS INDICATED ON PLANS	2" WRAP OR 1-1/2" LINER, R VALUE=6.0

	MECHANICAL	PIPING & INSULATION	ON SCHE	DULE			
NOTE: ALL EXTERIOR INSULATED PIPING TO BE PROVID	INSULATION THICKNESS NOMINAL PIPE SIZE						
SERVICE	PIPING TYPE	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	- 4 TO <8	≥8
EQUIPMENT DRAINS, COOLING CONDENSATE LINES, AND OVERFLOWS	TYPE "L" HARD COPPER	ELASTOMERIC	0.5	0.5	1.0	1.0	1.0
REFRIGERANT PIPING	COPPER REFRIGERANT PIPING	ELASTOMERIC	0.5	1.0	1.0	1.0	1.5
ALL OUTDOOR INSULATED PIPING	PROVIDE WITH EMBOSSED ALUMINUM JACKET OVER SCHEDULED INSULATION	PER SCHEDULE					

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Sheet Title: MECHANICAL SCHEDULES

NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS

DEDICATED FOR FUTURE BUILDING ADDITION.

PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY

GENERAL LOW VOLTAGE NOTES

CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND

ROUGH-IN.

SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS.

MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO



3600 West Main

405.360.1400 p

405.364.8287 1

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Norman, Oklahoma

Suite 200

73072



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Sheet Title: **ELECTRICAL NOTES AND LEGEND**

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ELECTRICAL DEMO PLAN

ED1.1 1/8" = 1'-0"

GENERAL LEGEND

E.C. TO REMOVE AND DEMOLISH EXISTING ELECTRICAL DEVICES (FIRE ALARM, RECEPTACLES. LIGHTING, SWITCH, DATA OUTLETS, CABLING, ETC.) UNLESS NOTED OTHERWISE ON THE PLAN. REMOVE ALL ASSOCIATED WIRES AND CONDUITS BACK TO PANEL UNLESS OTHERWISE NOTES.

EXISTING TO REMAIN.

DEMO PLAN NOTES

1. EXISTING LIGHT FIXTURES IN THIS AREA TO BE REMOVED AND DEMOLISHED . ALL EXISTING WIRING AND CONDUIT SHALL BE REUSED TO RECONNECT NEW LIGHT FIXTURES IN EXISTING LOCATION . REFER TO SHEET E2.1 FOR FURTHER INFORMATION.

2. E.C. SHALL COORDINATE WITH M.C./OWNER REGARDING SCOPE OF REMOVAL OF MECHANICAL EQUIPMENT PRIOR TO START OF DEMO PHASE.

3. E.C. SHALL CAREFULLY DISCONNECT EXISTING VAV BOXES TO BE RELOCATED OR SHIFTED/ROTATED. PRESERVE LOCAL MEANS OF DISCONNECT FOR REUSE IN NEW LOCATION. CONTRACTOR MAY PRESERVE AND REUSE ANY EXISTING CONDUIT AND WIRING FEEDING THESE VAV BOXES WHERE CONDUIT AND WIRING IS IN GOOD CONDITION AND WHERE PRACTICABLE. BOXES MAY BE CONNECTED ON CIRCUITS DIFFERING FROM ORIGINAL DUE TO RELOCATION WHERE PRACTICAL, BUT NO MORE THAN (5) VAV BOXES SHALL BE CONNECTED ON ONE CIRCUIT. CONTRACTOR SHALL MODIFY EXISTING CONDUIT AND WIRING OR PROVIDE NEW CONDUIT AND WIRING AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. SEE ELECTRICAL POWER FOR NEW LOCATIONS.

4. EXISTING LOCATION OF RECEPTACLES IN THIS AREA TO REMAIN. CONTRACTOR SHALL DEMO AND REPLACE RECEPTACLES WITH NEW WP GFCI OUTLET AND RECIRCUIT TO NEW PANEL. CONTRACTOR SHALL PROVIDE BOXES, CONDUIT, CABLING, AND OTHER NECESSARY APPURTENANCES FOR A COMPLETE AND OPERATIONAL SYSTEM.

5. EXISTING PHONE EQUIPMENT TO BE DEMOLISHED.

6. CONTRACTOR SHALL DEMO EXISTING ELECTRICAL EQUIPMENT, AND REPLACE WITH NEW EQUIPMENT AS INDICATED ON ELECTRICAL RISER DIAGRAM ON SHEET E3.1. NEW EQUIPMENT WILL KEEP SAME NAMING CONVENTION.

7. LIGHTING CONTACTOR/TIME CLOCK AND ALL CIRCUITS BEING CONTROLLED TO BE RELOCATED AS NECESSARY. CONTRACTOR TO KEEP SAME LIGHTING CONTROL AS CONNECTED PRIOR TO DEMOLITION.

GENERAL DEMOLITION NOTES

CONDITIONS.

A. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL VISIT THE SITE AND AREA OF WORK TO FAMILIARIZE THEMSELVES WITH THE EXISTING

B. REMOVE ALL ELECTRICAL DEVICES WITHIN THE SPECIFIED AREAS IN WHICH DEVICE(S) ARE LOCATED IN WALLS BEING REMOVED. ALL DEMOLITION WORK IS NOT DETAILED ON THESE DRAWINGS. REMOVAL AND RELOCATION OF SOME EXISTING ELECTRICAL WORK SHALL BE NEEDED FOR SATISFACTORY PERFORMANCE OF THIS AND OTHER TRADES.

PROPOSALS SHALL INCLUDE CONSIDERATION FOR ANY AND ALL REQUIRED CHANGES. THE INTENT OF THIS DRAWING IS TO RELATE THE GENERAL EXTENT OF DEMOLITION REQUIRED AND NOT TO INDICATE ALL DEVICES, REMOVALS, RECONNECTIONS OR ADDITIONAL WORK REQUIRED.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND DISPOSING OF ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRE, DEVICES, ETC. AS REQUIRED FOR A COMPLETE DEMOLITION. ALL FLUORESCENT LAMPS AND PCB BALLASTS SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

D. THE OWNER SHALL RESERVE ALL RIGHTS TO CLAIMING MATERIALS REMOVED DURING DEMOLITION. THE CONTRACTOR SHALL VERIFY WHICH ITEMS AND/OR MATERIALS THE OWNER WISHES TO CLAIM AND TO REMOVE ALL ITEMS AND/OR MATERIALS NOT CLAIMED BY THE OWNER TO A DESIGNATED LOCATION

E. ANY CONCEALED CONDUITS MADE OBSOLETE DUE TO THE DEMOLITION SHALL BE CUT BACK TO FLOOR, WALL OR CEILING WITH THE REMAINING ENDS PLUGGED TO ALLOW REFINISHING OF THE SURFACES. EXISTING CONDUITS THAT ARE IN WALLS OR FLOORS WHICH ARE TO REMAIN AND THE CONDUIT DOES NOT, AND WILL NOT INTERFER WITH THE WORK OF ANY TRADE, MAY REMAIN. ALL ABANDONED WIRE SHALL BE REMOVED IN ITS ENTIRETY.

F.WHILE PERFORMING DEMOLITION WORK, ALL CIRCUITING AND FEEDERS SERVING AREAS BEYOND THE DEMOLITION AREA SHALL BE MAINTAINED AND REPAIRED AS REQUIRED, AT THE CONTRACTOR'S EXPENSE, SO THAT ALL SUCH SYSTEMS REMAIN IN OPERATION. CONTINUITY SHALL REMAIN AT ALL TIMES WHILE DISCONNECTING EQUIPMENT AND DEVICES FROM CIRCUITS THAT ARE TO REMAIN. CONTINUOUS SERVICE FEEDERS, CIRCUITS, PARTIAL CIRCUITS AND OUTLETS EFFECTED BY DEMOLITION WORK SHALL BE MAINTAINED, EXCEPT WHEN WRITTEN PERMISSION IS PROVIDED BY THE OWNER. ALL WORK REQUIRING SHUT-DOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER, AT NO COST TO THE OWNER. CONTRACTOR SHALL PLAN AND PERFORM WORK IN SUCH A WAY AS TO MINIMIZE THE OUTAGES AND SUBMIT TO THE OWNER A SCHEDULE OF THE REQUIRED OUTAGES.

G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING MATERIALS NOT EFFECTED BY THE SCOPE OF DEMOLITION WORK WHICH IS DAMAGED BY HIS WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY/ALL DAMAGED MATERIALS OR EQUIPMENT AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER. REPAIRING AND PATCHING SHALL BE DONE BY THE RESPECTIVE TRADES INVOLVED. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND RESTORATION OF EXISTING CONSTRUCTION IN AREAS WHICH ARE NOT IN THE RENOVATION WORK AREA, BUT REQUIRED TO ACCOMMODATE NEW WORK AND REMOVAL OF ABANDONED SYSTEMS.

H. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR DEMOLITION/RELOCATION OF MECHANICAL OR PLUMBING EQUIPMENT. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL CONDUIT, WIRE AND ASSOCIATED DEVICES RELATING TO EQUIPMENT BEING REMOVED.

I. PRIOR TO THE INTERRUPTION OF EXISTING FEEDERS OR PANELS, THE CONTRACTOR SHALL VERIFY, BY MEANS OF TRACING ALL EXISTING CIRCUITS, THAT ALL BRANCH CIRCUITS BEING FED FROM DEMOLISHED/RELOCATED FEEDERS AND PANELS ARE NOT SERVING AREAS WHICH ARE TO REMAIN. WHERE NECESSARY, RECONNECT CIRCUITS TO CORRESPONDING NEW OR EXISTING TO REMAIN BRANCH CIRCUIT PANELS. THESE CONDITIONS SHALL APPLY TO FIRE ALARM, COMMUNICATIONS, CONTROL AND SPECIAL SYSTEMS.

J. INSIDE THE BUILDING ARE EXISTING FLOOR RECEPTACLES. CONTRACTOR SHALL LOCATE ALL, DISCONNECT ALL EXISTING FLOOR RECEPTACLES, AND REMOVE WIRING TO SOURCE. WIRE MAY NOT BE ABANDONED IN PLACE UNLESS COMPLETELY NECESSARY AND AFTER COORDINATION WITH OWNER/ENGINEER. CONTRACTOR SHALL COVER FORMER FLOOR OUTLET LOCATIONS WITH NEW FLOORING.



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architects

3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f tmparch.com

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INSTALLING FIRM SHALL BE STATE LICENSED AND NICET CERTIFIED. INSTALLING FIRM MUCT PROVIDE DRAWINGS AND DATA TO THE AHJ PRIOR TO THE 50% BUILDING INSPECTION. HORN AND STROBE PROVIDED BY FIRE ALARM CONTRACTOR. E.C. SHALL BE RESPONSIBLE FOR ADDING DEVICE ROUGH-INS PER DIRECTOIN OF FIRE MARSHALL. FACP LOCATION SHALL BE COORDINATED IN FIELD PRIOR TO ROUGH-IN.

PB-13 [⊕]

PB-41

PB-23

EXISTING UTL ATS -----GENERATOR EXISTING JUVENILE COORD. ASSOCIATE JUDGE WARRANTS METER MEN RESTROOM MEDITION COORD. ADMIN TECH 4 PROBATION OFFICER PA-5 | ● | -WOMEN : RESTROOM CONTACTOR LA PAMDP PB VESTIBULE CORRIDOR 127 CONFERENCE PA-36 WP/WR ↑ Ф |PB-18 · COURT "B" COURT ADMIN HOLDING TOILET PB-20 COURT "B" BUTTON **COPIER** BAILIFF/ COURT _WORKROOM ⇒PB-35 **□** PB-18 DEPUTY COURT PB-29∰(J)PB-29 CLERKS PB-19 PB-29 AIR PURIFIER PB-22 $\langle 1 \rangle$ PA-13 CONFERENCE RECEPTIONIST 103 COPIER-J)DUAL 108 VESTIBULE 114 PB-32 PB-17 ATM PA-19 PA-19 CONFERENCE PA-36 EXIT LOBBY PRINTERS 106 **VESTIBULE** PB-13

PROSECUTOR

SCREENING

DETECTOR-

PUBLIC RESTROOM

1 POWER PLAN

E1.1 1/8" = 1'-0"

102

₽PB-12

122A

UNISEX RESTROOM

FIRE SPRINKLER

WOMEN

RESTROOM

111

POWER GENERAL NOTES

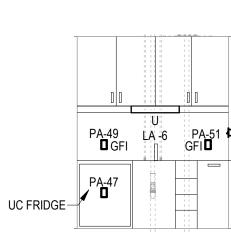
- A. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12AWG. CONDUCTORS FOR 120V BRANCH CIRCUITS MORE THAN 100 FT SHALL NOT BE SMALLER THAN #10AWG. CONDUCTORS FOR 120V BRANCH CIRCUITS MORE THAN 200 FT SHALL NOT BE SMALLER THAN #8AWG.
- B. VERTICALLY ALIGN ALL WALL BOXES WHEREVER POSSIBLE (I.E. RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, FIRE ALARM DEVICES). VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- C. WHEN WIRE SIZE IS DESIGNATED ADJACENT TO A HOME RUN, WIRE SIZE SHOWN SHALL BE UTILIZED FOR ENTIRE CIRCUIT (NOT HOME RUN ONLY).
- D. WHERE VOICE/DATA JACK SHOWN ADJACENT TO POWER OUTLET, VOICE/DATA SHALL BE MOUNTED WITHIN 12" POWER OUTLET MEASURED CENTER TO CENTER WHEN POSSIBLE.
- E. ALL DEVICE PLATES AND J-BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER. FACEPLATES WITH CLEAR STICK-ON LABEL AND 1/4" LETTERING. J-BOXES WITH PERMANENT MARKER WITH 1/2" LETTERS MIN.
- F. EXISTING JUNCTION BOXES ABOVE CEILING FOR ACCESS CONTROL TO REMAIN CONNECTED AND OPERATIONAL AT ALL TIME.
- G. ALL ROOF MOUNTED RECEPTACLES TO REMAIN OPERATIONAL AFTER COMPLETION.
- H. POWER TO CHRISTMAS LIGHTS, TIMER FOR CHRISTMAS LIGHTS AND ROOF LIGHTS SHALL REMAIN OPERATIONAL AFTER COMPLETION. PROVIDE ALL NECESSARY DEVICES, WIRING, RELAYS ETC FOR A COMPLETE SYSTEM.

POWER PLAN NOTES

- 1. PROJECTOR SCREEN IS FIXED AND DOES NOT REQUIRE POWER.
- 2. NEW 400A FEED TO EXISTING MDP. REFER TO SHEET E3.1 ONE LINE RISER DIAGRAM
- 3. NEW 400A FEED TO NEW ATS. REFER TO SHEET E3.1 ONE LINE RISER DIAGRAM. DEMO OR ABANDON EXISTING SECONDARY
- 4. PROVIDE 120 V POWER AND PUSH BUTTON/CONTROL ROUGH-IN FOR HANDICAPPED DOOR PER MANUFACTURER'S WRITTEN INSTRUCTIONS FOR COMPLETE AND OPERATIONAL SYSTEM. SEE TECHNOLOGY
- 5. PROVIDE SEPARATE UNDERFLOOR PVC CONDUITS FOR FLOOR BOXES AS FOLLOW:

DRAWINGS FOR ADDITIONAL INFORMATION.

- RFBB2E-OG (2) 1" C FOR POWER AND DATA. EFB45S-OG - (1) 1"C FOR POWER, (1) 1" AND (1) 1-1/4"C FOR
- EFB6S-OG (1) 1"C FOR POWER, (1) 1" AND (2) 1-1/4"C FOR DATA.
- COORDINATE EXACT BOX LOCATION WITH IP DESIGN PRIOR TO ROUGH-IN. CONDUITS SHALL RISE UP INSIDE WALL TO ABOVE CEILING FOR AUDIO VISUAL AND DATA.
- 6. EXISTING RECEPTACLES IN THIS AREA TO REMAIN.
 CONTRACTOR SHALL RECIRCUIT RECEPTACLES TO NEW
 PANEL AS REQUIRED. CONTRACTOR SHALL PROVIDE
 BOXES, CONDUIT, CABLING, AND OTHER NECESSARY
 APPURTENANCES FOR A COMPLETE AND OPERATIONAL
 SYSTEM. REFER TO ELECTRICAL DEMOLITION PLAN FOR
 ADDITIONAL INFORMATION.
- 7. PROVIDE 2" CONDUIT UNDERGROUND TO HALFWALL. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- 8. TRANSFORMER TO BE INSTALLED ABOVE NEW ELECTRICAL PANELS. PROVIDE SUPPORT AS PER NEC, MANUFACTURER'S REQUIREMENT AND LOCAL AHJ.
- 9. CONTRACTOR TO PROVIDE SUPPORT FOR NEW TRANSFORMER "T2" AS PER NEC 450. COORDINATE WITH OTHER EQUIPMENT IN THE PRIOR TO INSTALLATIONS.
- 10. PROVIDE SEPARATE UNDERFLOOR PVC CONDUITS FOR FLOOR BOXES AS FOLLOW:
 RFBB2E-OG (2) 1" C FOR POWER AND DATA.
 EFB45S-OG (1) 1"C FOR POWER, (1) 1" AND (1) 1-1/4"C FOR
- DATA. EFB6S-OG - (1) 1"C FOR POWER, (1) 1" AND (2) 1-1/4"C FOR
- DATA.
 COORDINATE EXACT BOX LOCATION WITH IP DESIGN PRIOR
 TO ROUGH-IN. JURY ROOM CONDUITS WILL TERMINATE
 INTO THE WALL BOX BEHIND MONITOR.CONDUITS SHALL
 RISE UP INSIDE WALL TO ABOVE CEILING FOR AUDIO VISUAL
 AND DATA.



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2 COFFEE SECTION VIEW E1.1 1/4" = 1'-0"

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Sheet Title:

ELECTRICAL POWER PLAN

Sheet Number:

1.1

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1 ELECTRICAL EQUIPMENT POWER PLAN
1/8" = 1'-0"

SYSTEM PANEL

EQUIP POWER GENERAL NOTES

- A. BRANCH CIRCUIT CONDICTORS SHALL NOT BE SMALLER THAN #12 AWG. CONDUCTORS FOR 120V BRANCH CIRCIUTS MORE THAN 100 FT SHALL NOT BE SMALLER THAN #8 AWG.
- B. ALL NEW ADDED CONDUIT AND WIRING TO MECHANICAL EQUIPMENT AND ROOF TOP RECEPTACLES SHALL BE ROUTED BELOW ROOF INSIDE BUILDING ENVELOPE. ALL PENETRATIONS SHALL BE THOROUGHLY SEALED AND SHALL NOT VOID ROOF MANUFACTURER'S WARRANTY.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONDUIT, WIRE AND BREAKER SIZE IF NON BASIS OF DESIGN EQUIPMENT IS UTILIZED AND RESIZE AT NO ADDITIONAL COST TO OWNER.
- D. ALL EQUIPMENT CONNECTIONS ARE BASED ON BASIS OF DESIGN EQUIPMENT. ACTUAL EQUIPMENT SHALL BE SELECTED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER'S ACTUAL EQUIPMENT PROVIDED AND ASSOCIATED CUT SHEETS BEFORE ROUGH-IN AND MODIFY DEVICES, BREAKERS, CONDUIT AND WIRING AS REQUIRED IN COORDINATION WITH PROJECT ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.
- E. WHEN WIRE SIZE IS DESIGNATED ADJACENT TO A HOME RUN, WIRE SIZE SHOWN SHALL BE UTILIZED FOR ENTIRE CIRCUIT (NOT HOME RUN ONLY).
- F. PROVIDE ROUGH-IN FOR ALL THERMOSTAT LOCATIONS. COORDINATE WITH MECHANICAL.

EQUIP. POWER PLAN NOTES

- 1. EXHAUST FAN SHALL POWERED AND INTERLOCKED WITH LIGHTS. REFER TO MECHANICAL SCHEDULE FOR EXHAUST FAN CONTROL.
- 2. E.C. SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR UNIT (MCU-1) AND INDOOR UNIT (MS-1) OF THE MINI SPLIT SYSTÈMS.
- 3. COORDINATE NEW LOCATION FOR RELOCATED VAV BOXESWITH MECHANICAL CONTRACTOR. EXTEND EXISTING WIRES AND CONDUITS AS NECESSARY. RECONNECT TO NEW ELECTRICAL PANEL AND PROVIDE A NEW CIRCUIT BREAKER FOR A COMPLETE AND WORKING SYSTEM.
- I. CONTRACTOR RESPONSIBLE TO PROVIDE POWER TO ALL EXISTING TO REMAIN EQUIPMENT IN THIS ROOM. PROVIDE WIRE SIZE AND FEEDER AS PER NEC BASE ON NAMEPLATE, AND MANUFACTURER RECOMMENDATION AS REQUIRED. EXTEND AND RECONNECT ALL WIRING AS REQUIRED. ALL EQUIPMENT SHOULD BE OPERATIONAL AFTER WORK COMPLETION.
- 5. DISCONNECT SWITCH 240V, 30A, NEMA 1. FUSE AS PER MANUFACTURER SPECIFICATIONS.
- 6. DISCONNECTS TO BE PROVIDED WITH EXHAUST FAN AND GRAVITY HOODS.
- 7. EXISTING GAS WATER HEATER. CONTRACTOR SHALL PROVIDE NEW RECEPTACLE FOR GHW. CONTRACTOR SHALL RECONNECT TO NEW PANEL WITH NEW BREAKER AND EXTEND WIRING USING THE SAME SIZES AS REQUIRED





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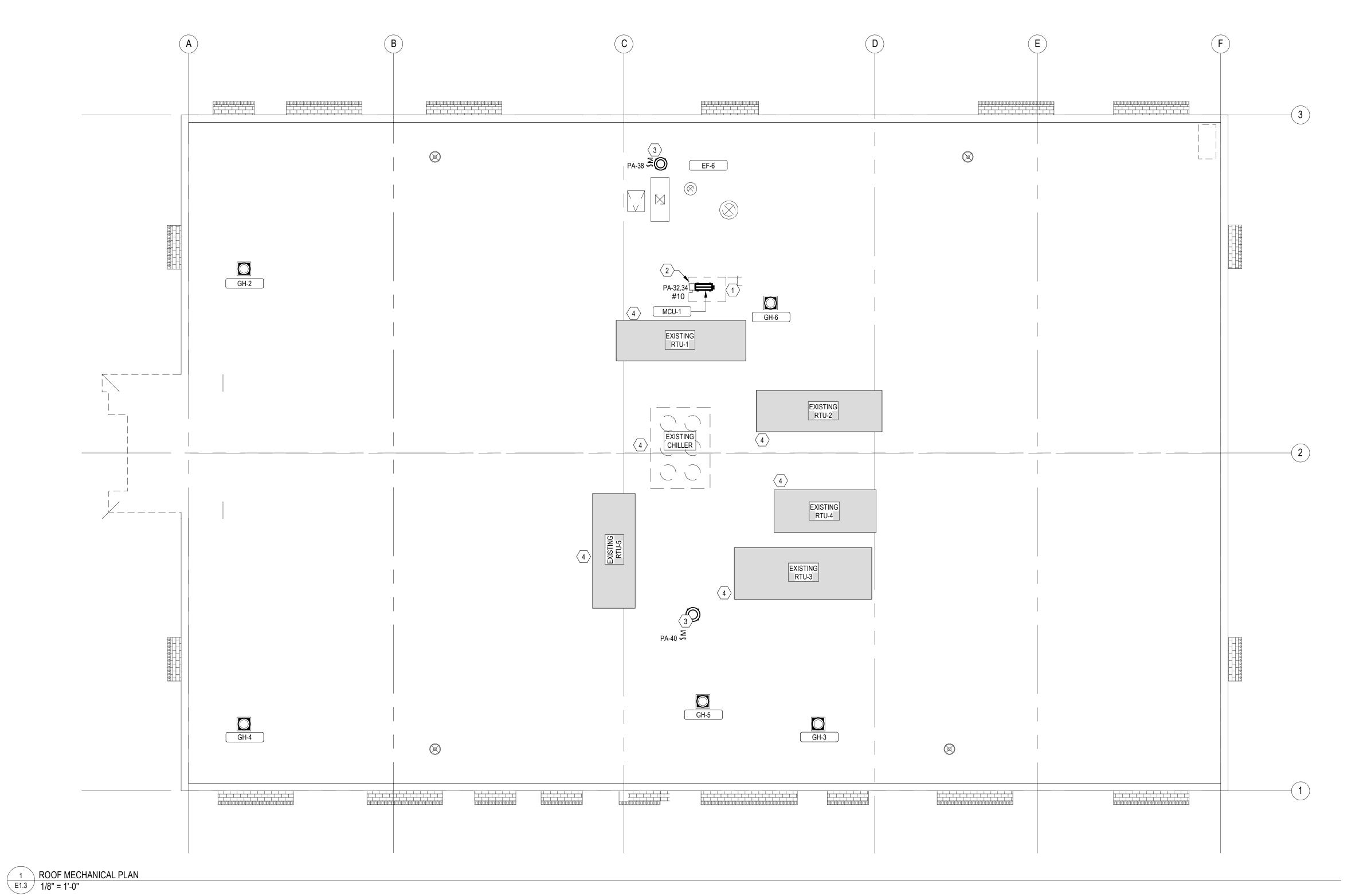
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1. E.C. SHALL MAKE CONNECTIONS BETWEEN THE OUTDOOR UNIT (MCU-1) AND INDOOR UNIT (MS-1) OF THE MINI SPLIT SYSTEMS.

2. DISCONNECT SWITCH 240V, 30A, NEMA 3R. FUSE AS PER MANUFACTURER SPECIFICATIONS.

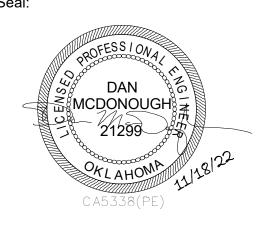
3. DISCONNECTS TO BE PROVIDED WITH EXHAUST FAN. E

4. MECHANICAL EQUIPMENT THAT ARE EXISTING TO REMAIN SHALL BE RECONNECT TO NEW PANEL WITH NEW BREAKER. CONTRACOT SHALL MATCH BREAKER SIZE OF EXISTING AND EXTEND WIRING USING THE SAME SIZE WIRE AS REQUIRED. CONTRACTOR SHALL REFEED NEARBY MAINTENANCE RECEPTACLE TO ELECTRICAL PANEL AS REQUIRED.



THE MCKINNEY PARTNERSHIP architects

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ROOF POWER PLAN

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HP ENGINEERING

LIGHTING GENERAL NOTES

- A. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. CONDUCTORS FOR 120V BRANCH CIRCUITS MORE THAN 100 FT SHALL NOT BE SMALLER THAN #10 AWG. CONDUCTORS FOR 120V BRANCH CIRCUITS MORE THAN 200 FT SHALL NOT BE SMALLER THAN #8 AWG.
- B. VERTICALLY ALIGN ALL WALL BOXES WHEREVER POSSIBLE (I.E. RECEPTACLES, LIGHT SWITCHES, THERMOSTATS, FIRE ALARM DEVICES). VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- C. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION ON MOUNTING HEIGHTS OF WALL MOUNTED
- D. CONNECT EMERGENCY AND EXIT LIGHTS TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT FOR CONTINUOUS OPERATION.
- E. WHERE PLANS SHOW MULTIPLE LINE VOLTAGE SWITCHES SHOWN IN ONE LOCATION, DESIGN INTENT IS TO INSTALL SWITCHES IN MULTI-GANG BOXES.
- F. CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR DIMMING OF LIGHT FIXTURES.
- G. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMMER SWITCHES TO BE FULLY COMPATIBLE WITH THE FIXTURES AND LAMPS PROVIDED BEFORE SUBMITTING DEVICES FOR APPROVAL.
- H. OCC SENSOR COVERAGE VARIES PER MANUFACTURER. IT IS COVERAGE IN AREAS/ROOMS WITH SENSORS SHOWN WITH ACTUAL OCCUPANCY SENSORS PROVIDED. PROVIDE EXTENDED RANGE OCCUPANCY SENSORS OR ADDITIONAL OCCUPANCY SENSORS WHERE REQUIRED TO ACHIEVE FULL
- I. COORDINATE MOUNTING HEIGHTS OF ALL FIXTURES SUSPENDED AND WALL MOUNT WITH ARCHITECT PRIOR TO INSTALLATION.
- J. REPLACE EXISTING EXTERIOR FIXTURES WITH NEW FIXTURES IN SAME LOCATIONS. EXISTING CONTROL TO
- K. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL / TIME CLOCK.

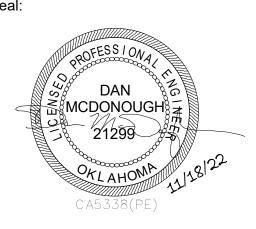
LIGHTING PLAN NOTES

- 1. IN THIS ROOM CONTRACTOR MAY SUBSTITUTE 0-10V WIRING SYSTEM AND OCC SENSOR DIMMING SWITCH WITH SENSOR SWITCH WSXA (JOT) ENABLED WALL SWITCH SENSOR AND LIGHT FIXTURE SPECIFIED WITH BOOTHTOOTH JOT CAPABILITY ADDED. SWITCH SHALL BE HARDWIRED AS REQUIRED. BATTERY OPERATED SWITCHES ARE UNACCEPTABLE. THIS OPTION REMOVES THE REQUIREMENT FOR 0-10V WIRING BETWEEN FIXTURE.
- 2. NEW "RETROFIT" FIXTURE INSTALLED INTO EXISTING SOFFIT. REPAIR SOFFIT BACK TO ORIGINAL CONDITION AFTER INSTALLING NEW FIXTURE. COORDINATE WITH ARCHITECT
- 3. REPLACE EXISTING EXTERIOR FIXTURES WITH NEW FIXTURES IN SAME LOCATIONS. EXISTING CONTROL TO REMAIN.
- 4. CONTRACTOR SHALL INSTALL AND MOUNT NEW LIGHT FIXTURES IN SAME LOCATION AS EXISTING FIXTURES. LIGHTS SHALL BE SUSPENDED FROM STRUCTURE WITH CHAIN.



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LUMIN	NAIRE SCH	IEDULE							
CALLOUT	SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	LAMP	INPUT WATTS	BALLAST	MOUNTING	VOLTS
A		LITHONIA LIGHTING - BLC	BLC 2X2 4000LM 80CRI 35K ADSM MIN1O ZT MVOLT	2'X2' RECESSED CENTER BASKET TROFFER LED, 4000 LUMENS, 80 CRI, 3500K, CURVED SMOOTH DIFUSER, 0-10V DIMMING 1%, MVOLT	LED	36	LED DRIVER	RECESSED	277V 1P 2W
AE		LITHONIA LIGHTING - BLC	BLC 2X2 4000LM 80CRI 35K ADSM MIN1O ZT MVOLT E10WLCP	2'X2' RECESSED CENTER BASKET TROFFER LED, 4000 LUMENS, 80 CRI, 3500K, CURVED SMOOTH DIFUSER, 0-10V DIMMING 1%, MVOLT, 10 WATT EMERGENCY ATTERY BACKUP.	LED	36	LED DRIVER	RECESSED	277V 1P 2W
В		LITHONIA LIGHTING - CPX SERIES	CPX 2X4 4000LM 35K M2	2'X4' LED FLAT PANEL, 5000 LUMENS, 80 CRI, 3500K, 0-10V DIMMING 1%, MVOLT	LED	39	LED DRIVER	RECESSED	277V 1P 2W
BE		LITHONIA LIGHTING - CPX SERIES	CPX 2X4 4000LM 35K M2 PS1055CP	2'X4' LED FLAT PANEL, 5000 LUMENS, 80 CRI, 3500K, 0-10V DIMMING 1%, MVOLT,10 WATT EMERGENCY BATTERY BACKUP.	LED	39	LED DRIVER	RECESSED	277V 1P 2W
C1	0	LITHONIA LIGHTING - LDN4 SERIES	LDNA 35/15 LO4AR LD MVOLT GZ10	4" RECESSED, LED DOWNLIGHT, 3500K, 1500 LUMENS, AR CLEAR TRIM, MATTE DIFFUSE FINISH, 0-10V DIMMING, FACTORY BAR HANGERS FOR SPECIFIC CEILING TYPES.	LED	18	LED DRIVER	RECESSED	277V 1P 2W
C1E	•	LITHONIA LIGHTING - LDN4 SERIES	LDNA 35/15 LO4AR LD MVOLT GZ10 EL	4" RECESSED, LED DOWNLIGHT, 3500K, 1500 LUMENS, AR CLEAR TRIM, MATTE DIFFUSE FINISH, 0-10V DIMMING, FACTORY BAR HANGERS FOR SPECIFIC CEILING TYPES. 10 WATT EMERG BATTERY PACK.	LED	18	LED DRIVER	RECESSED	277V 1P 2W
C2	0	LITHONIA LIGHTING - LDN4WW SERIES	LDN4 35/10 LW6 AR LD MVOLT GZ10	4", RECESSED, LED DOWNLIGHT, 3500K, 1500 LUMENS, WALLWASH, 65 DEGREE ANGLE, AR CLEAR TRIM, MATTE DIFFUSE FINISH, 0-10V DIMMING, FACTORY BAR HANGERS FOR SPECIFIC CEILING TYPES.	LED	58	LED DRIVER	RECESSED	277V 1P 2W
D	0	LITHONIA LIGHTING - LBR6 SERIES	LBR6 1000LM 40K AR LSS MWD MVOLT	6", RECESSED, RETROFIT LED DOWNLIGHT, SELF FLANGE, 1000LM, 4000K, CLEAR, SEMI SPECULAR, MVOLT, 0-10V DIM.	LED	16	LED DRIVER	RECESSED	277V 1P 2W
DE	•	LITHONIA LIGHTING - LBR6 SERIES	LBR6 1000LM 40K AR LSS MWD MVOLT E10WCPR	6", RECESSED, RETROFIT LED DOWNLIGHT, SELF FLANGE, 1000LM, 4000K, CLEAR, SEMI SPECULAR, MVOLT, 0-10V DIM, 10 WATT	LED	13	LED DRIVER	RECESSED	277V 1P 2W
E	•	LITHONIA LIGHTING - LBR8 SERIES	LBR8 10LM 40K AR LSS MWD MVOLT	8", RECESSED, RETROFIT LED DOWNLIGHT, SELF FLANGE, 2000LM, 4000K, CLEAR, SEMI SPECULAR, MVOLT, 0-10V DIM, WET LOC LISTED	LED	16	LED DRIVER	RECESSED	277V 1P 2W
E12	0 0	FLUXWERX APS SERIES	APS R A D 35 (COLOR BY ARCHITECT) 12FT (COORD. CLG TYPES) F2 M 06 G	12' LONG SUSPENDED, RADUIS ENDCAP, 75UP/25DN DISTRIBUTION, 34 WATTS PER SECTION, WHITE, 3500K, 0-10V DIMMING TO 3%, MOVLT, 6' SUSPENSION.	LED	102	LED DRIVER	PENDANT/SURFACE	277V 1P 2W
EE	0	LITHONIA LIGHTING - LBR8 SERIES	LRB8 15LM 40K AR LSS MWD MVOLT	8", RECESSED, RETROFIT LED DOWNLIGHT, SELF FLANGE, 1000LM, 4000K, CLEAR, SEMI SPECULAR, MVOLT, 0-10V DIM, 10 WATT EM BATTERY PACK.	LED	16	LED DRIVER	RECESSED	277V 1P 2W
EM	y	LITHONIA ELM6L SERIES	ELM6L 640LM UVOLT NICAD	EMERGENCY LIGHT, CONTEMPORARY, ADJUSTABLE OPTICS, 1100 LUMENS, LITHIUM ION	LED	3	ELECTRONIC	WALL	277V 1P 2W
J		FLUXWERX NOTCH NT1-B SERIES	NT1 L D2 B D 35 F2 M 12FT E	12' LONG MICROSCALE PENDANT, FLUSH FROSTED DIRECT SHIELDING, 1000 LUMENS PER FT, 3500K, ANADOLIC OPTICS, DADO ENDCAP, SINGLE CIRCUIT, UNIVERSAL VOLTAGE, DIMMING TO 1%, WHITE FINISH, GP/120 SUSPENSION, 14FT.	(1) LED	133	LED DRIVER	SURFACE	277V 1P 2W
K25		FINELITE HP-2 SERIES	HP 2 WM ID 2'-5" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	2'-5" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL WHITE	LED	48.6	ELECTRONIC	SURFACE	277V 1P 2W
K45		FINELITE HP-2 SERIES	HP 2 WM ID 4'-5" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	4'-5" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL WHITE	LED	72	ELECTRONIC	SURFACE	277V 1P 2W
K6		FINELITE HP-2 SERIES	HP 2 WM ID 6' H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	6' LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL	LED	108	ELECTRONIC	SURFACE	277V 1P 2W
K510		FINELITE HP-2 SERIES	HP 2 WM ID 5'-10" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	WHITE 5' - 10" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL	LED	126	LED DRIVER	SURFACE	277V 1P 2W
K11		FINELITE HP-2 SERIES	HP 2 WM ID11' H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	WHITE 11' LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL WHITE	LED	198	LED DRIVER	SURFACE	277V 1P 2W
K5		FINELITE HP-2 SERIES	HP 2 WM ID 5' H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	5' LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL WHITE	LED	104	LED DRIVER	SURFACE	277V 1P 2W
K710	<u> </u>	FINELITE HP-2 SERIES	HP 2 WM ID 7'-10" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	7'-10" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL	LED	190	LED DRIVER	SURFACE	277V 1P 2W
K511		FINELITE HP-2 SERIES	HP 2 WM ID 5'-11" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	WHITE 5'-11" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL	LED	105	LED DRIVER	SURFACE	277V 1P 2W
K86		FINELITE HP-2 SERIES	HP 2 WM ID 8'-6" H 835 TG RG-LHC 96LG 120 SC FC-10 MB FE SW	WHITE 8'-6" LONG, WALL MOUNT, INDIRECT / DIRECT, HIGH OUTPUT UPLIGHT, HIGH OUTPUT DOWNLIGHT, 80 CRI, 3500K, TOP GLOW UPLIGHT, HEX LOUVER DOWNLIGHT, LOW GLOSS WHITE REFLECTOR, SINGLE CIRCUIT, 0-10v DIMMING TO 10%, MOUNTING BRACKET, FLAT ENDCAP, SIGNAL	LED	144	LED DRIVER	SURFACE	277V 1P 2W
Р		BROWNLEE INNE SERIES	2630 30 BL H30 WHA SCM 35K	WHITE 30" DIA.X6" DEEP, BLACK FINISH (OUTER), WHITE ACRYLIC FINISH (INNER), 32 WATT LED, SINGLE STEM MOUNT (BLACK) 3500K.	(1) LED	34	LED DRIVER	PENDANT	277V 1P 2W
Q	Q	BETA-CALCO TRAY - AG1 SERIES	AG1 677LM 40K D1 G1 LO	LED WALL SCONCE, 3500K, LOW PROFILE, 80 CRI, 675 LUMENS, 0-10V DIMMING TO 1%, SILVER METALIC FRONT FRAME FINISH, SILVER METALIC BACK FRAME FINISH, 75% OF STANDARD OUTPUT.	(1) LED	6	LED DRIVER	WALL	277V 1P 2W
S	⊢ •	LITHONIA LIGHTING - CLX SERIES	CLX L48 5000LM SEF RDL MVOLT GZ10 35K 80CRI	4' LED STRIP, 5000LM, MVOLT, ROUND DIFFUSE LENS, GENERAL DISTRIBUTION, MVOLT, 0-10V DIMMING, 3500K, 80 CRI, WHITE, SURFACE MOUNT IN ROOMS WITH CEILINGS, CHAIN HANGERS IN OPEN CEILING AREAS.	(1) LED	44	LED DRIVER	SURFACE	277V 1P 2W
U	F - ◆ - 4	VERSALED UC6 SERIES	UC6 K1 40L 277V K RS 90C	40" UNDERCABINET LED LIGHT, 3500K, 4000 LUMEN, WHITE. 90 CRI	(1) LED	32	LED DRIVER	UNDERCABINET	277V 1P 2W
WE		RAYON T650LED SERIES	T-SERIES LED DL 3786LM UNV 40K T3 PC1	LED RADIUS WALLPACK, DOWNLIGHT, 40W, 3786 LUMENS, 3500K, TYPE 3, SATIN NICKEL FINISH, EMERGENCY BATTERY BACK-UP.	(1) LED	40	LED DRIVER	WALL	277V 1P 2W
X1	⊗	LITHONIA EDG SERIES	EDG (COLOR BY ARCHITECT) FACES AS SHOWN ON PLANS R EL SD	EXIT SIGN, EDGELIT, NUMBER FACES AS SHOWN ON PLANS, SELF DIAGNOSTIC, RED LETTERS, EMERGENCY BATTERY PACK.	LED	5	BATTERY	WALL/CEILING	277V 1P 2W
X2	⊗	LITHONIA LQM SERIES	LQM P W 3 R ELN SD	EXIT SIGN, UNIVERSAL POLYCARBONATE, SELF DIAGNOSTIC, RED LETTERS, WHITE HOUSING, EMERGENCY BATTERY PACK.	LED	5	BATTERY	WALL/CEILING	277V 1P 2W

A. EC SHALL PROVIDE A SUBMITTAL PACKAGE INCLUDING CUTSHEETS FOR EACH FIXTURE.
B. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE.
C. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE.
D. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS.
E. EC SHALL PROVIDE THIS FIXTURE U.L. LISTED AND LABELED FOR WET LOCATIONS.

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LIGHTING SCHEDULE

Sheet Number:

Location: **Supply From:** Mounting: SURFACE Enclosure: NEMA 1

Volts: 480Y/277 Phases: 3

A.I.C. Rating: FULLY RATED (7) Mains Type: MCB Mains Rating: 400 A

СКТ	Circuit Description	Trip	Pole s	Wire	A (I	kVA)	B (I	«VA)	C (k	(VA)	Wire	Pole s	Trip	Circuit Description	скт
1					2.11	3.33								_	2
3	HW PUMP (13)	20	3				2.11	3.33				3	20	AHU-3 (13)	4
5									2.11	3.33					6
7					4.43	1.33									8
9	CW PUMP (13)	20	3				4.43	1.33				3	15	AHU-5 (13)	10
11									4.43	1.33					12
13					0.94	0.94									14
15	AHU-4 (13)	15	3				0.94	0.94				3	20	AHU-1 (13)	16 18
17									0.94	0.94					18
19	0 (40)			,,,,	3.05	17.45		10.55					400	T4 (0)	20
21	AHU-2 (13)	30	3	#10			3.05	16.55	0.05	40.00		3	100	T1 (8)	22 24
23					0.00	4.42			3.05	19.92					24
25		20	2		0.83	4.43	0.83	4.43			-	2	20	CM 2 (12)	20
27 29	HWP-2 (13)	20	3				0.83	4.43	0.83	4.43	-	3	20	CW-2 (13)	26 28 30
31	SPACE		1			0.72			0.63	4.43					30
33			1			0.72		0.43				3	50	T2 (8)	32 34
	SPACE		1					0.43		0.43		3	30	12 (0)	36
37	OI ACL		<u> </u>		3.29	24.93				0.43					38
39	LA (8)	225	3		5.25	24.93	3.85	24.93				3	175	EXISTING CHILLER (13)	38 40
41		220					0.00	27.00	3.46	24.93	1		173	LAGING OFFICER (10)	42
· · ·	1		Total	Load:	6777	72 VA	671/	l2 VA		9 VA					12
			· Otal	_544.	0111	_ v/\	57 17	- V/\	7012	.U V/ (4				

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel	Totals
Other	500 VA	100.00%	500 VA		
Power	69609 VA	100.00%	69609 VA	Total Conn. Load:	205043 VA
Spare	79950 VA	100.00%	79950 VA	Total Feeder Load:	190597 VA
Lighting	14592 VA	100.00%	14592 VA	Total Connected Current:	246.6 A
Receptacle	39392 VA	62.69%	24696 VA	Total Feeder Current:	229.3 A
Existing Load	1000 VA	125.00%	1250 VA		

242.4 A

REFER TO PANELBOARD NOTES FOR ADDITIONAL INFORMATION.

Total Amps:

245.0 A

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS



WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE **EQUIPMENT (PPE)** REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

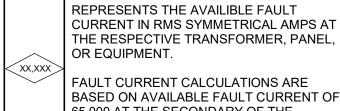
1. CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES LISTED IN THE CURRENT NEC EDITION, CHAPTER, 9, TABLES 5 AND 5A, AND CONDUIT AREAS LISTED CHAPTER 9. TABLE 4 FOR EMT WITH 40% FILL. OTHER CONDITIONS MAY REQUIRE A LARGER CONDUIT, SUCH AS UNDERGROUND PVC, SIZED FOR NEC.

253.5 A

2. GROUND SIZES: EQUIPMENT GROUNDING CONDUCTOR BASED ON NEC TABLE 250.122 -COPPER / GROUNDING ELECTRODE CONDUCTOR BASED ON NEC TABLE 250.66 - COPPER

3. CONDUCTOR SIZES BASED ON NEC TABLE 310.15 -COPPER 75°C.

FAULT CURRENT NOTE



OR EQUIPMENT. FAULT CURRENT CALCULATIONS ARE BASED ON AVAILABLE FAULT CURRENT OF 65,000 AT THE SECONDARY OF THE TRANSFORMER PROVIDED BY THE ELECTRIC UTILITY PROVIDER.

POWER PLAN NOTES

1. TRANSFORMER TO BE INSTALLED ABOVE NEW ELECTRICAL PANELS. PROVIDE SUPPORT AS PER NEC, MANUFACTURER'S REQUIREMENT AND LOCAL AHJ.

2. CONTRACTOR SHALL REMOVE ALL EXISTING UNDERSLAB WIRING AND CONDUITS FEEDING PANELS. ALL NEW WIRING SHALL BE FED TO PANELS FROM

PANELBOARD NOTES (#)

- TERMINATE GROUND ON ISOLATED GROUND BUS. 2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE). 3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD). 4. GFI BREAKER FOR PERSONNEL PROTECTION
- 5. GFI BREAKER FOR EQUIPMENT PROTECTION
- 6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART. 7. REFER TO FAULT CURRENT SCHEDULE FOR
- AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS. 8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- 9. FACTORY WIRED TO LOAD. 10.THRU CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL.
- 11. ADD NEW CIRCUIT BREAKER TO EXISTING PANEL. NEW CIRCUIT BREAKER SHALL MATCH AIC RATING, MANUFACTURER, AND TYPE OF EXISTING CIRCUIT BREAKERS. 12. MATCH AIC RATING OF SERVICING DEVICE.
- 13. EXISTING MECHANICAL AND MECHANICAL EQUIPMENT SHALL BE RECONNECTED TO NEW PANEL. EXTEND EXISTING FEEDER TO NEW PANEL LOCATION WITH SAME SIZE CONDUIT AND CONDUCTORS AS EXISTING.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS			WIF	RE SIZE		
15-20	PHASE GROUND	12 12	10 10	8	6 6	4 4
25-30	PHASE GROUND	10 10	8 8	6 6	4 4	3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2 4
60	PHASE GROUND	6 10	4 6	3 6	2 4	1 4
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/0
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/0 3
PER N	EC 250.122(E	3)	1	1	ı	

FEEDER SCHEDULE

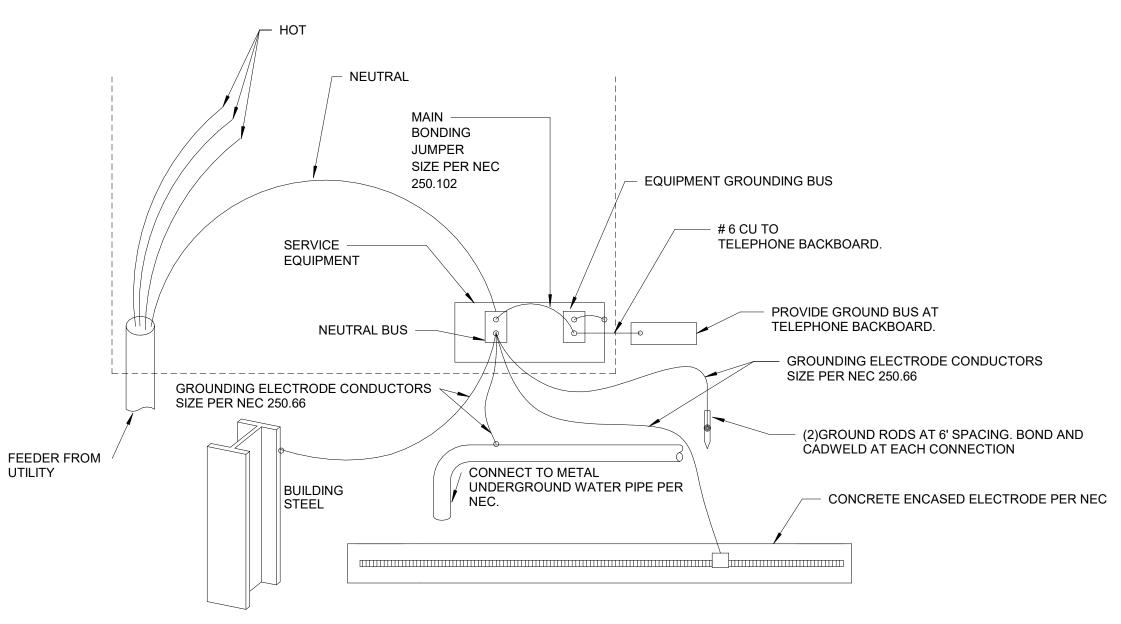
AMPERAGE	SETS OF CONDUIT	CONDUIT SIZE	CONDUCTOR QTY/SIZE	GROUND QTY/SIZE	AMPERAGE	SETS OF CONDUIT	CONDUIT SIZE	CONDUCTOR QTY/SIZE	GROUND QTY/SIZE
15A	(1)	3/4"	(4) #12	(1) #12	225A	(1)	2 1/2"	(4) #4/0	(1) #4
20A	(1)	3/4"	(4) #12	(1) #12	250A	(1)	3"	(4) #250 KCML	(1) #4
25A	(1)	3/4"	(4) #10	(1) #10	300A	(2)	2"	(4) #1/0	(1) #4
30A	(1)	3/4"	(4) #8	(1) #10	400A	(2)	2 1/2"	(4) #3/0	(1) #3
40A	(1)	3/4"	(4) #6	(1) #10	450A	(2)	2 1/2"	(4) #4/0	(1) #2
45A	(1)	1"	(4) #6	(1) #10	500A	(2)	3"	(4) #250 KCML	(1) #2
50A	(1)	1"	(4) #4	(1) #10	600A	(2)	3"	(4) #350 KCML	(1) #1
60A	(1)	1 1/4"	(4) #4	(1) #10	800A	(3)	3"	(4) #300 KCML	(1) #1/0
70A	(1)	1 1/4"	(4) #3	(1) #8	1000A	(3)	3 1/2"	(4) #400 KCML	(1) #2/0
80A	(1)	1 1/2"	(4) #2	(1) #8	1200A	(4)	3 1/2"	(4) #350 KCML	(1) #3/0
90A	(1)	1 1/2"	(4) #1	(1) #8	1600A	(5)	3 1/2"	(4) #400 KCML	(1) #4/0
100A	(1)	2"	(4) #1	(1) #8	2000A	(6)	3 1/2"	(4) #400 KCML	(1) #250 KCML
125A	(1)	2"	(4) #1/0	(1) #6	2500A	(7)	3 1/2"	(4) #500 KCML	(1) #350 KCML
150A	(1)	2"	(4) #2/0	(1) #6	3000A	(8)	3 1/2"	(4) #500 KCML	(1) #400 KCML
175A	(1)	2"	(4) #3/0	(1) #6	3500A	(10)	3 1/2"	(4) #500 KCML	(1) #500 KCML
200A	(1)	2 1/2"	(4) #12	(1) #6	4000A	(10)	4"	(4) #600 KCML	(1) #500 KCML

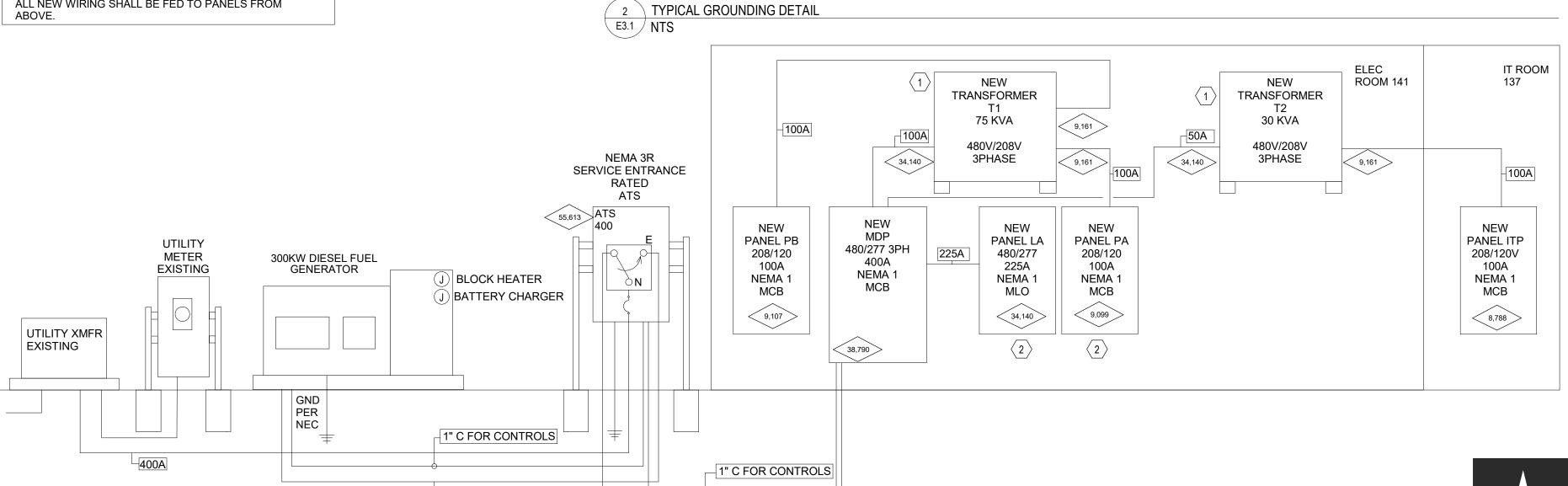
FEEDER SIZE GENERAL NOTES:

CONDUCTOR QUANTITY BASED ON 3-PHASE 4-WIRE; FOR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL OR IS SINGLE PHASE DEDUCT FROM QUANTITY AS REQUIRES

CONDUCTOR SIZE IS BASED ON NEC TABLE 310.16 - COPPER 60°C UP TO 100 AMPS, 75°C GREATER THAN 100 AMPS. GROUND SIZES BASED ON NEC TABLE 250.122 - COPPER

CONDUIT FILL BASED ON NEC ANNEX C - THW CONDUCTOR INSULATION





COA#: 5338 Expires 06/30/2023 520 West Broadway Avenue Suite 101 Broken Arrow, Oklahoma 74012

HP ENGINEERING

918.895.6510 p

hpengineeringinc.com/

THE MCKINNEY PARTNERSHIP architects 3600 West Main Suite 200

Norman, Oklahoma

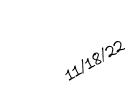
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Project:

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Issue Date:

11/18/22 ISSUED FOR BIDDING

Revisions:

Project Number: CM083319 (201253R)

Sheet Title:

ELECTRICAL RISER DIAGRAM

Sheet Number:

ELECTRICAL RISER DIAGRAM

Location: ELEC ROOM 141 Supply From: MDP Mounting: SURFACE Enclosure: NEMA 1

Total Amps:

Volts: 480Y/277 Wires: 4

A.I.C. Rating: FULLY RATED (7) Mains Type: MCB Mains Rating: 225 A

OKT	Olympid Deposited as	Taia	Pole		A //	L3/A3	D (1	.1/4\	0.41		\A/i	Pole		Oliveral Description	OLCT
CKT	•	Trip	S	Wire	•	kVA)	B (I	(VA)	C (I	kVA)	Wire	S	Trip	•	СКТ
	SPARE	20	1		0.00	1.44						1	20	LIGHTING - COURT B	2
	LIGHTING - LOBBY/WAITING 101	20	1				0.73	1.02				1	20	LIGHTING - RECEPTION	4
5	LIGHTING - CORR. 125	20	1						0.92	2.54		1	20	LIGHTING - COURT A	6
7	LIGHTING - N. OFFICES &	20	1		1.62	0.00						1	20	SPARE	8
9	LIGHTING - JURY POOL	20	1				1.75	0.00				1	20	SPARE	10
11	SPARE	20	1						0.00	0.00		1	20	SPARE	12
13	LIGHTING - EXT (13)	20	1		0.23	0.00						1	20	SPARE	14
15	LIGHTING - EXT (13)	20	1				0.35	0.00				1	20	SPARE	16
17	SPARE	20	1						0.00	0.00		1	20	SPARE	18
19	SPARE	20	1		0.00	0.00						1	20	SPARE	20
21	SPARE	20	1				0.00	0.00				1	20	SPARE	22
23	SPARE	20	1						0.00	0.00		1	20	SPARE	24
25	SPARE	20	1		0.00	0.00						1	20	SPARE	26
27	SPARE	20	1				0.00	0.00				1	20	SPARE	28
29	SPARE	20	1						0.00	0.00		1	20	SPARE	30
31	SPARE	20	1		0.00	0.00						1	20	SPARE	32
33	SPARE	20	1				0.00	0.00				1	20	SPARE	34
35	SPACE		1									1		SPACE	36
37	SPACE		1									1		SPACE	38
39	SPACE		1									1		SPACE	40
41	SPACE		1									1		SPACE	42
			Total	Load:	328	7 VA	384	6 VA	345	9 VA					

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel	Totals
Lighting	10592 VA	100.00%	10592 VA		
				Total Conn. Load:	10592 VA
				Total Feeder Load:	10592 VA
				Total Connected Current:	12.7 A
				Total Feeder Current:	12.7 A

12.6 A

PANELBOARD: ITP

REFER TO PANELBOARD NOTES FOR ADDITIONAL INFORMATION.

Location: IT ROOM 137 Supply From: T2 Mounting: SURFACE Enclosure: NEMA1

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: Fully (7) Mains Type: MAIN CB Mains Rating: 100 A

			Pole									Pole			
СКТ	Circuit Description	Trip	s	Wire	A (kVA)	В (Н	(VA)	C (I	kVA)	Wire		Trip	Circuit Description	СКТ
1	RECEPT - IT 139	20	1		0.18		·			<u> </u>		1		SPACE	2
3	RECEPT - IT 139	20	1				0.18					1		SPACE	4
5	RECEPT - IT 139	20	1						0.18			1		SPACE	6
7	RECEPT - IT 139	20	1		0.18							1		SPACE	8
9	DIRECT CONNECT - IT 139	20	2				0.25					1		SPACE	10
11									0.25			1		SPACE	12
13	RECEPTS AUDIO RM	20	1		0.36							1		SPACE	14
15	SPACE		1									1		SPACE	16
17	SPACE		1									1		SPACE	18
19	SPACE		1									1		SPACE	20
21	SPACE		1									1		SPACE	22
23	SPACE		1									1		SPACE	24
25	SPACE		1									1		SPACE	26
27	SPACE		1									1		SPACE	28
29	SPACE		1									1		SPACE	30
31	SPACE		1									1		SPACE	32
33	SPACE		1									1		SPACE	34
35	SPACE		1									1		SPACE	36
			Total	Load:	720	O VA	430	VA	430	VA			•		
			Total A	Amps:	6.	0 A	3.6	6 A	3.0	6 A					

Legend:

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel	Totals
Power	500 VA	100.00%	500 VA		
Receptacle	1080 VA	100.00%	1080 VA	Total Conn. Load:	1580 VA
				Total Feeder Load:	1580 VA
				Total Connected Current:	4.4 A
				Total Feeder Current:	4.4 A

REFER TO PANELBOARD NOTES FOR ADDITIONAL INFORMATION.

PANELBOARD: PA

Supply From: T1 Mounting: SURFACE Enclosure: NEMA 1

Location: ELEC ROOM 141

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: FULLY RATED (7) Mains Type: MCB Mains Rating: 100 A

			Pole									Pole			
CK	T Circuit Description	Trip	S	Wire		A	ı	В		С	Wire		Trip	Circuit Description	СКТ
1	RECEPTS - OFFICERS/WARRANTS	20	1		1.08	0.72						1	20	RECEPTS - ASSOCIATE JUDGE 131	2
3	RECEPTS - JUVENILE COORD. 145	20	1				0.54	0.72				1	20	RECEPTS - ADMIN IV 129	4
5	RECEPTS - ADMIN TECH 144	20	1						0.90	0.72		1	20	RECEPTS - PROBATION OFFICER	6
7	RECEPTS - SUPERVISOR 152	20	1		0.72	0.72						1	20	RECEPTS - RM-NM 151	8
9	RECEPTS - DEP. COURT CLERK 104	20	1				0.54	0.18				1	20	REFRIGERATOR- BR 137 (4)	10
1		20	1						0.54	0.18		1	20	COFFEE-BR 137	12
1:	RECEPTS - DEP. COURT CLERK 104	20	1		0.54	0.18						1	20	GARBAGE DISPOSAL - BR 137 (4)	14
1:	RECEPTS - RECEPTIONIST 103	20	1				0.54	0.18				1	20	DISHWASHER - BR 137 (4)	16
1	RECEPTS - RECEPTIONIST 103	20	1						0.54	0.50		1	20	MICROWAVE - BR 137 (4)	18
19	RECEPTS - PAY STATION 105	20	1		0.54	0.54						1	20	EXTERIOR RECEPTACLES	20
2	RECEPTS - PAY STATION 105	20	1				0.36	0.54				1	20	RECEPTS - VESTIBULE 100	22
	RECEPTS - PROSECUTOR 109	20	1						0.72	0.72		1	20	RECEPTS - SCREENING 107	24
	RECEPTS - PROSECUTOR 110	20	1		0.72	0.18						1	20	COPIER RECEPTIONIST 103	26
	RECEPTS - CONFERENCE 113	20	1				0.54	0.50				1		FLOOR BOX - COURT B	28
29	RECEPTS - CONFERENCE 115	20	1						0.54	0.72		1	20	RECEPTS - COURT A	30
3		20	1		0.90	0.25						2	10	MCU-1	32
	RECEPTS - MENTAL HEALTH	20	1				0.72	0.25					10	INCO-1	34
	RECEPTS - MEDIATION COORD. 134		1						0.72	0.36		1	20	EXTERIOR RECEPTACLES	36
	RECEPTS - BAILIF/COURT	20	1		0.54	0.46						1		EF-6	38
39	RECEPTS - BAILIF/COURT	20	1				0.72	0.46				1	20	EF-7	40
4		20	1						0.90	0.25		2	20	EUH-1 FIRE SPRINKLER 123	42
	RECEPT - COURT "A" 118	20	1		0.18	0.25							20		44
	RECEPT - COURT "A" 118	20	1				0.18	0.50				1	20	DBLE INTRLCK ACT SYS - FS 123	46
4	UC FRIDGE - COFFEE 121 (4)	20	1						0.18	0.50		1		FACP	48
49		20	1		0.18	0.00						1	20	(E) UH-1 (13)	50
5		20	1				0.50	0.36				1	20	SPARE	52
	VAV BOX AND DAMPER (13)	20	1						0.60	0.60		1	20	VAV BOX AND DAMPER (13)	54
	VAV BOX AND DAMPER (13)	20	1		0.60	0.60						1	20	VAV BOX AND DAMPER (13)	56
	VAV BOX AND DAMPER (13)	20	1				0.60	0.60				1		VAV BOX AND DAMPER (13)	58
59	VAV BOX AND DAMPER (13)	20	1						0.60	0.60		1	20	VAV BOX AND DAMPER (13)	60
			Total	Load:	989	06 VA	952	6 VA	1139	90 VA					
		•	Total A	Amps:	82	.9 A	79.	4 A	95	.4 A					

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel	Totals
Other	500 VA	100.00%	500 VA		
Power	2040 VA	100.00%	2040 VA	Total Conn. Load:	30812 VA
Spare	5160 VA	100.00%	5160 VA	Total Feeder Load:	24256 VA
Receptacle	23112 VA	71.63%	16556 VA	Total Connected Current:	85.5 A
				Total Feeder Current:	67.3 A

REFER TO PANELBOARD NOTES FOR ADDITIONAL INFORMATION.

PANELBOARD: PB

Location: ELEC ROOM 141 Supply From: T1 Mounting: SURFACE Enclosure: NEMA 1

Volts: 208Y/120 Phases: 3 Wires: 4

A.I.C. Rating: FULLY RATED (7) Mains Type: MCB Mains Rating: 90 A

Legend:

			Pole								Po	Je.		
СКТ	Circuit Description	Trip	S	Wire	A (I	kVA)	В (Н	(VA)	C (k	(VA)	Wire		Circuit Description	СКТ
1	GLYCOL PUMP (13)	20	1		0.50	0.50					1	20	BOILER CIRC. PUMP 1/3HP (13)	2
3	CHRISTMAS LIGHTS (13)	20	1				0.50	0.50			1	20	VAV CONTROL POWER (13)	4
5	CHRISTMAS LIGHTS (13)	20	1						0.50	0.50	1	20	VAV CONTROL POWER (13)	6
7	CHRISTMAS LIGHTS (13)	20	1		0.50	0.50					1	20	CHRISTMAS LIGHTS (13)	8
9	CHRISTMAS LIGHTS & TIME CLK(13)	20	1				0.50	0.50			1	20	SPARE	10
11	BOILER CONTROLS & BURNER (13)	20	1						0.50	0.18	1	20	RECEPTS - PUBLIC RR 102	12
13	RECEPTS - COURT A 118	20	1		1.08	0.36					1	20	RECEPTS - MENS RR 117	14
15	RECEPTS - COURT A 118	20	1				0.36	0.18			1	20	RECEPTS - MENS RR 136	16
17	RECEPTS - COURT A 118	20	1						0.54	0.54	1	20	RECEPTS - COURT B 140	18
19	RECEPTS - COURT A 118	20	1		0.54	0.18					1	20	COPIER	20
21	RECEPTS - COURT A 118	20	1				0.36	1.04			1	20	RECEPTS - JURY POOL 108	22
23	RECEPTS - JURY 120	20	1						0.72	0.54	1	20	RECEPTS - WOMENS RR 111	24
25	RECEPTS - FIRE SPRINKLER	20	1		0.18	0.18					1	20	EWC (4)	26
27	RECEPTS - JURY POOL 108	20	1				0.54	0.18			1	20	RECEPT - TV CORR 101	28
29	RECEPTS - COURT A	20	1						0.90	0.72	1	20	RECEPTS - JURY POOL 108	30
31	RECEPTS - BREAKROOM 137	20	1		0.72	1.50					1	20	FLOOR BOXES - COURT A 118	32
33	RECEPTS - CONFERENCE 130	20	1				1.22	0.18			1	20	RECEPTS - HOLDING RR 150	34
35	RECEPTS - COURT ADMIN 126	20	1						1.40	0.45	2	20	BLOCK HEATER	36
37	RECEPT - ATM	20	1		0.36	0.45] 4	. 20	BLOCK HEATER	38
39	RECEPTS - WOMENS RR 143	20	1				0.36	0.60			1	20	BATTERY CHARGER	40
41	RECEPTS JURY 120	20	1						0.86	0.18	1	20	GHW-1 (4)	42
			Total	Load:	755	0 VA	702	0 VA	8530	AV C				
		1	Total A	Amps:	63.	.6 A	58.	5 A	71.	8 A				

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals
Power	2900 VA	100.00%	2900 VA	
Lighting	4000 VA	100.00%	4000 VA	Total Conn. Load: 23100 VA
Receptacle	15200 VA	82.89%	12600 VA	Total Feeder Load: 20750 VA
Existing Load	1000 VA	125.00%	1250 VA	Total Connected Current: 64.1 A
				Total Feeder Current: 57.6 A

REFER TO PANELBOARD NOTES FOR ADDITIONAL INFORMATION.

PANELBOARD NOTES (#)

- 1. TERMINATE GROUND ON ISOLATED GROUND BUS. 2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE). 3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD). 4. GFI BREAKER FOR PERSONNEL PROTECTION
- 5. GFI BREAKER FOR EQUIPMENT PROTECTION
- 6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
- 7. REFER TO FAULT CURRENT SCHEDULE FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
- 8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES. 9. FACTORY WIRED TO LOAD. 10.THRU CONTROLLER. REFER TO LIGHTING
- CONTROLLER DETAIL. 11. ADD NEW CIRCUIT BREAKER TO EXISTING PANEL. NEW CIRCUIT BREAKER SHALL MATCH AIC RATING,
- MANUFACTURER, AND TYPE OF EXISTING CIRCUIT BREAKERS. 12. MATCH AIC RATING OF SERVICING DEVICE. 13. EXISTING MECHANICAL AND MECHANICAL EQUIPMENT SHALL BE RECONNECTED TO NEW PANEL. EXTEND EXISTING FEEDER TO NEW PANEL LOCATION WITH SAME SIZE CONDUIT AND CONDUCTORS AS EXISTING.

EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

BRKR AMPS			WIR	RE SIZE		
15-20	PHASE GROUND	12 12	10 10	8 8	6 6	4 4
25-30	PHASE GROUND	10 10	8 8	6 6	4 4	3
35-50	PHASE GROUND	8 10	6 8	4 4	3 4	2 4
60	PHASE GROUND	6 10	4 6	3 6	2 4	1 4
70	PHASE GROUND	6 8	4 4	3 4	2 3	1 2
80-90	PHASE GROUND	4 8	3 6	2 4	1 4	1/0
100	PHASE GROUND	3 8	2 6	1 4	1/0 4	2/0 3
PER NE	EC 250.122(B	3)				

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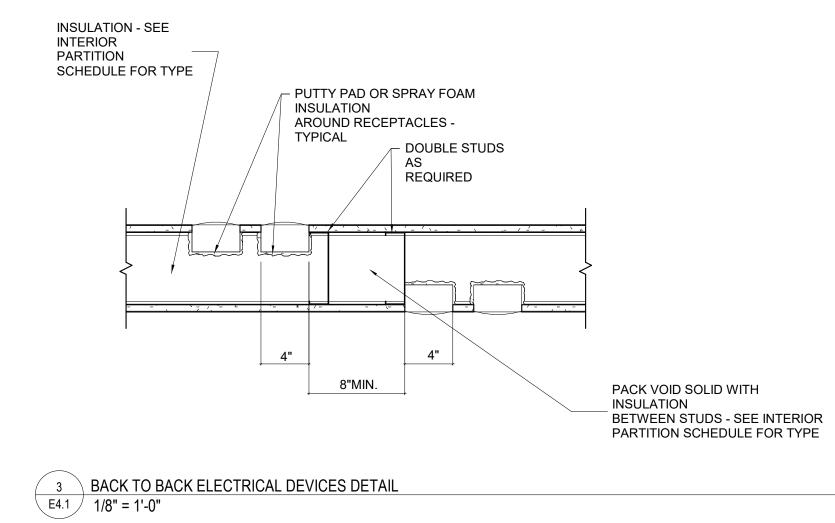
Sheet Title: **ELECTRICAL SCHEDULES**

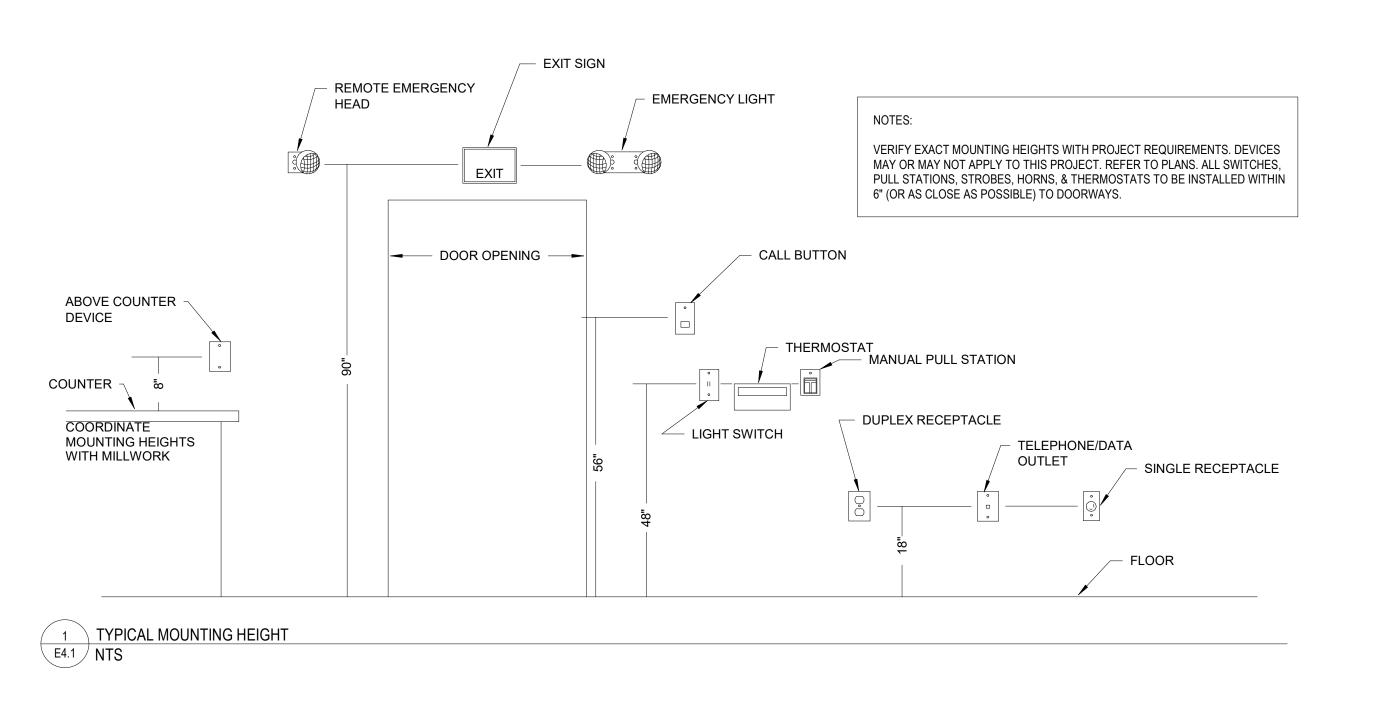
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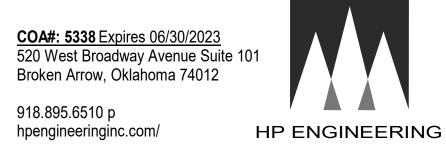
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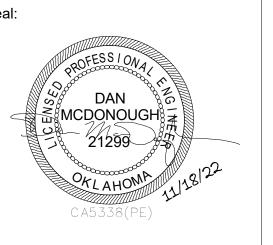






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ELECTRICAL DETAILS

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HEAT DETECTOR PULL STATION FLOW SWITCH

FACP FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL

MONITOR MODULE

TAMPER SWITCH

THE ELECTRICAL CONTRACTOR SHALL ENGAGE A LICENSED FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID A COMPLETE INSTALLED FIRE ALARM SYSTEM.

FIRE ALARM NOTES

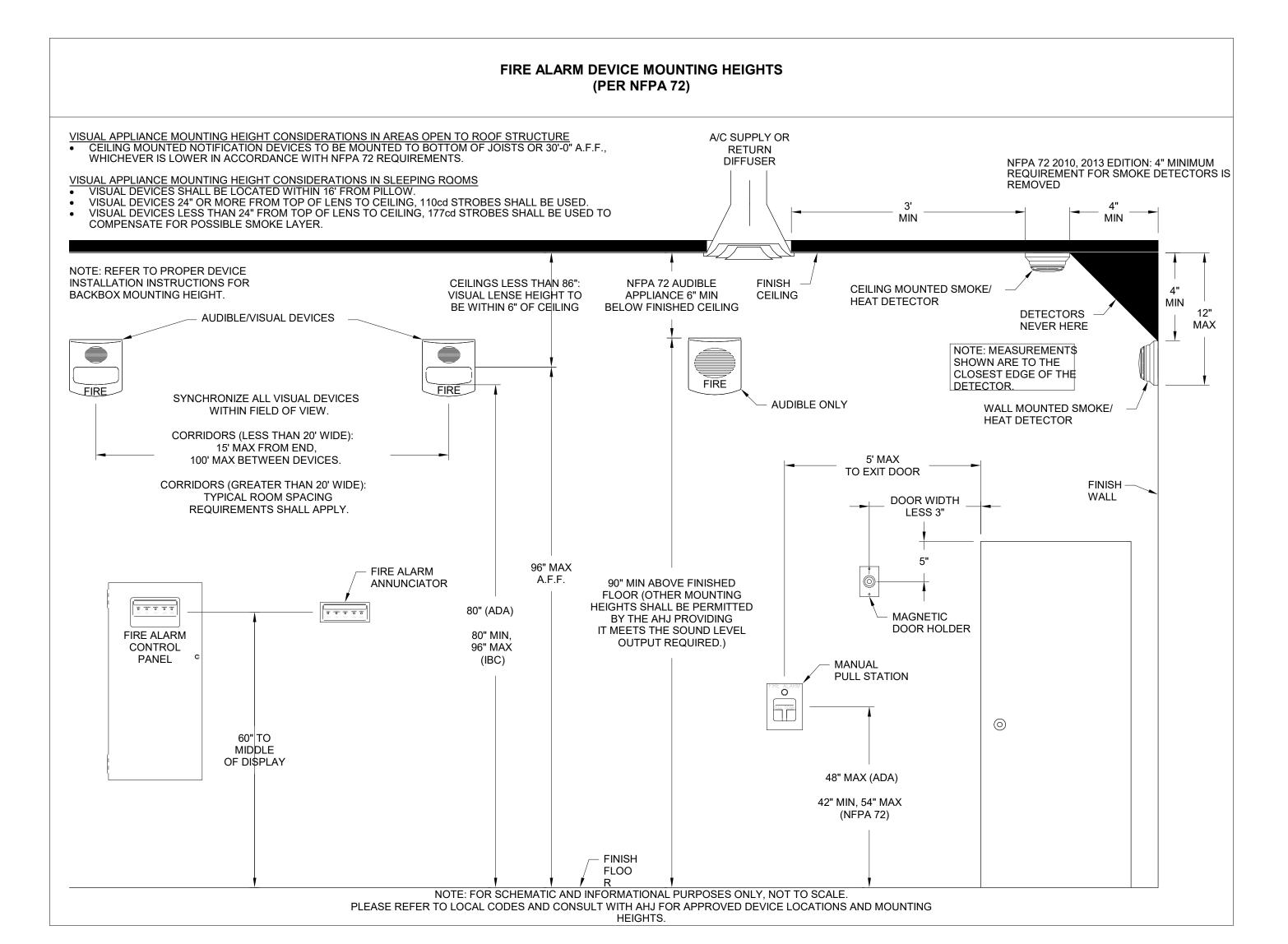
2. THE FIRE ALARM SYSTEM SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA 72 FOR VISUAL AND AUDIBLE NOTIFICATION, PROVIDE PLANS WITH THE REQUIRED dB LEVELS FOR APPROVAL BY THE FIRE MARSHALL, IF THE SHUTDOWN OF ANY EQUIPMENT IS REQUIRED, IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO WORK WITH THE ELECTRICIAN TO ACCOMPLISH THE WORK AND INCLUDE THE PRICING FOR THE WORK IN THE BASE

FIRE ALARM INSTALLATION NOTES

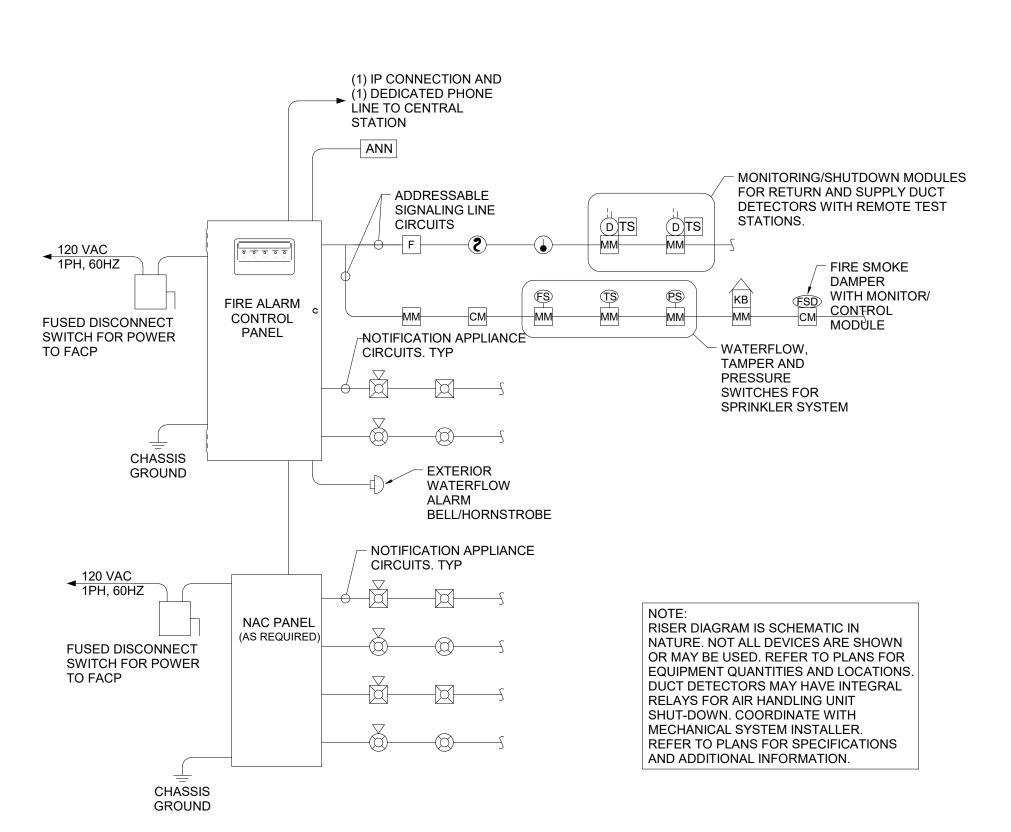
- 1. SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 72 AND LOCAL CODES AND REGULATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE UL LISTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 2. INTERFACE WITH AND MONITOR ALL FIRE SUPPRESSION SYSTEM DEVICES INCLUDING (BUT NOT LIMITED TO) SPRINKLER FLOW AND TAMPER SWITCHES.
- 3. WIRE AND CABLE SHALL BE UL LISTED AND LABELED AS COMPLYING WITH NFPA 70, ARTICLE 760. SIGNALING LINE CIRCUITS TO BE TWISTED. SHIELDED PAIR, SIZED AS RECOMMENDED BY SYSTEM MANUFACTURER. NON-POWER-LIMITED CIRCUITS TO BE SOLID-COPPER CONDUCTORS WITH
- 600-V RATED, 75 DEG C, COLOR-CODED INSULATION. 9.1 LOW-VOLTAGE CIRCUITS: NO. 16 AWG, MINIMUM 9.2 LINE-VOLTAGE CIRCUITS: NO. 12 AWG, MINIMUM
- 4. INSTALL AND TEST SYSTEMS ACCORDING TO NFPA 72. COMPLY WITH NECA 1.
- 5. TEST ALL SYSTEM DEVICES FOR PROPER OPERATION IN THE PRESENCE OF THE AHJ AND OTHER OFFICIALS INSPECTING THE FIRE ALARM SYSTEM.
- 6. IF REQUIRED BY THE LOCAL AHJ, EQUIPMENT DATA SHEETS AND BATTERY CALCULATIONS IN ACCEPTANCE WITH NFPA 72 SHALL BE PERFORMED BY THE FIRE ALARM SYSTEM MANUFACTURER/INSTALLER TO MATCH EQUIPMENT TO BE INSTALLED.
- 7. SYSTEM INSTALLER SHALL BE A LICENSED FIRE ALARM CONTRACTOR IN 8. PROVIDE CONNECTION TO EXTERIOR WATERFLOW ALARM BELL AS REQUIRED. THE RESPECTIVE STATE OF THIS PROJECT.
- 8. FIRE ALARM CONTROL PANEL SHALL BE MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, UL 864 LISTED, AND DESIGNED TO TRANSMIT ALARM, TROUBLE, AND SUPERVISORY SIGNALS TO A UL LISTED CENTRAL STATION THROUGH A DIGITAL ALARM COMMUNICATOR TRANSMITTER WITH (1) ETHERNET PORT CONNECTION.
- 9. PROVIDE 120VAC POWER THROUGH DEDICATED LOCKING BREAKER AT POWER PANEL.
- 10. GROUND THE FACP AND ALL ASSOCIATED CIRCUITS.
- 11. INSTALL A #6 AWG GROUND WIRE FROM THE TELE-COMMUNICATIONS EQUIPMENT GROUNDING POINT (IT 139) TO THE FACP (ELECTRIC 142).
- 12. SYSTEM SHALL INCLUDE 24V DC POWER SYSTEM WITH SEALED LEAD CALCIUM BATTERIES AND AUTOMATIC BATTERY CHARGER IN ACCORDANCE WITH NFPA 72.
- 13. PROVIDE (1) IP CONNECTION TO CUSTOMERS INTERNET NETWORK.

FIRE ALARM GENERAL NOTES

- 1. FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- 2. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSESONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES. DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- B. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 4. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
- 5. AUDIBLE NOTIFICATION DEVICES SHALL SOUND UNTIL SILENCED AT THE CONTROL PANEL OR REMOTE ANNUNCIATOR AS REQUIRED. VISUAL ALARM IS DISPLAYED UNTIL DEVICE IS RETURNED TO ITS NORMAL POSITION OR SUPERVISORY CONDITION IS CLEARED.
- 6. FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO THE OWNER.
- 7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 9. PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL(S) TO POWER NOTIFICATION DEVICES AS REQUIRED. CONNECT TO FIRE ALARM SYSTEM.
- 10. THE FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR LOCATIONS SHOWN SHALL BE COORDINATED WITH THE FIRE DEPARTMENT AND AHJ PRIOR TO INSTALLATION.
- 11. PROVIDE CONNECTION OF THE FIRE ALARM SYSTEM TO A UL LISTED CENTRAL
- 12. AIR HANDLING SYSTEMS THAT ARE MONITORED SHALL SHUTDOWN AND REMAIN DOWN UNTIL MANUALLY RESET.
- 13. PROVIDE NOTIFICATION, INITIATING AND MONITORING DEVICES AS INDICATED ON THE DRAWINGS. FIRE ALARM DEVICES SHALL BE OF ONE MANUFACTURER AND SHALL BE LISTED FOR USE WITH THE FIRE ALARM CONTROL PANEL.



E4.2 / NTS



TYPICAL FIRE ALARM RISER DETAIL

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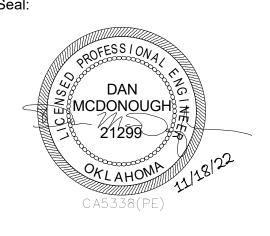
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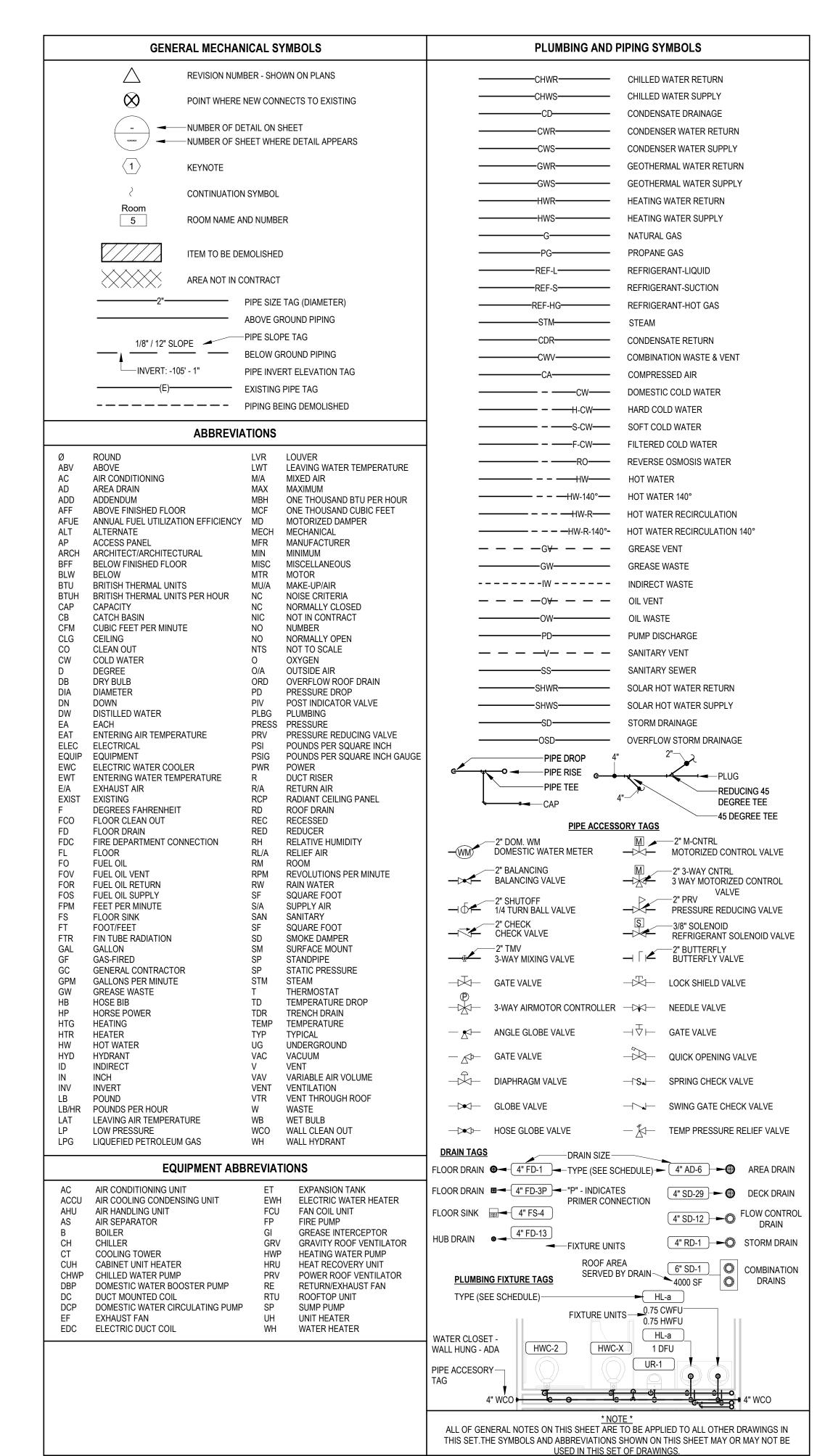
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GENERAL PLUMBING NOTES

- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL/ARKANSAS PLUMBING CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR.
- IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO CORRDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERT AND LOCATION OF THE SANITARY SERVICE IS COMPATIBLE WITH THE SITE UTILITIES PRIOR TO BEGINNING
- THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING,
- THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

INSPECTIONS, TAP-ON FEES, ETC.

- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE
- INSTALLATION OF ALL PLUMBING RELATED ITEMS DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A MINIMUM OF 10' SEPARATION UNLESS WRITTEN PERMISSION IS OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET.
- ALL DOMESTIC WATER, NATURAL GAS, DEIONIZED WATER, CARBON DIOXIDE, COMPRESSED AIR, AND NITROGEN PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER MANUFACTURER'S RECOMMENDATIONS. ISOLATION VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER BALANCING VALVES.
- ALL SANITARY, GREASE, LAB, AND ACID WASTE PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED
- FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT AIR FROM REACHING THE VALVE
- FLOOR DRAIN CONNECTION SIZE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE.
- 12 FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS.
- 13 THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED.
- CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE
- SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR.
- THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS. FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES
- ONLY, UNLESS NOTED OTHERWISE. THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE &
- PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE ONLY. ALL PIPING ON ROOF SHALL BE ANCHORED TO STEEL RIB FASTENERS APPROVED BY THE ROOF MANUFACTURER. INSTALL ANCHORS PER MANUFACTURERS
- RECOMMENDATION 20 ALL PLUMBING & PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND PER MANUFACTURER'S RECOMMENDATIONS. REUSE EXISTING VENTS THRU ROOF AS SHOWN. ALL VENT THRU ROOF (VTR'S)
- PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHAL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS. ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY
- SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY, ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000.
- CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE, REFRIGERATOR, ETC.
- PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS.
- TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F. SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070.
- VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER TRADES. MAINTENANCE SHALL BE ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE CONTRACTOR SHALL PROVIDE A CONTROL CHAIN AND/OR ARM.
- REGULATORS INSTALLED ON THE INTERIOR OF THE BUILDING SHALL BE VENTED TO THE EXTERIOR PER LOCAL AND STATE CODES.
- 28 IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.
- 29 CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM WITH ON SITE CONDITIONS AND LOCAL UTILITY.
- PROVIDE BALANCING VALVES FOR PROPER OPERATION AND PRESSURE OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE EACH RISER. INSTALL PER MANUFACTURE'S REQUIREMENTS.
- PROVIDE DRAIN PANS FOR ANY WATER PIPING CROSSING OVER IT ROOM 139 OR A/V 119. ROUTE DRAIN PAN(S) TO NEAREST APPROVED WASTE RECEPTICAL.
- 32 ANY LINE VOLTAGE WIRING THAT IS RUN BY THE PLUMBING CONTRACTOR SHALL
- BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL PLANS, NOTES, AND SPECIFICATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR ON SITE. 33 INSULATION JACKET SHALL BE PROVIDED WHEN PIPING INSULATION IS EXPOSED
- 34 THE PLUMBING CONTRACTOR SHALL INSPECT EXISTING CONDITIONS PRIOR TO BEGINNING WORK. FIELD VERIFY SIZE AND LOCATION OF ALL EXISTING SERVICES TO BE TIED INTO.
- CAMERA SURVEY ALL EXISTING SANITARY SEWER LOCATIONS AND INVERTS BELOW SLAB OR GRADE. NOTIFY GENERAL CONTRACTOR OF ANY POTENTIAL
- CONFLICTS WITH WORK PRIOR TO BEGINNING CONSTRUCTION. THE EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZES.

GENERAL PLUMBING SEISMIC NOTES

- PROVIDE VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT FOR DEVICES FOR FIRE-SUPPRESSION EQUIPMENT AND
- PROVIDE VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND
- COORDINATE ALL VIBRATION ISOLATION DEVICE INSTALLATION AND SEISMIC BRACING FOR PLUMBING PIPING AND EQUIPMENT WITH OTHER SYSTEMS AND EQUIPMENT IN THE VICINITY, INCLUDING OTHER SUPPORTS AND RESTRAINTS, IF
- TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT THE TESTING INDICATED, THAT IS AN NRTL AS DEFINED BY OSHA IN 29 CFR 1910.7 AND THAT IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- COMPLY WITH SEISMIC-RESTRAINT REQUIREMENTS IN THE INTERNATIONAL
- BUILDING CODE WELDING QUALIFICATIONS: QUALITY PROCEDURES AND PERSONNEL ACCORDING
- TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL." SEISMIC-RESTRAINT DEVICES SHALL HAVE HORIZONTAL AND VERTICAL LOAD TESTING AND ANALYSIS AND SHALL BEAR ANCHORAGE PRE-APPROVAL OPA NUMBER FROM OSHPD, PRE-APPROVAL BY ICC-ES, OR PRE-APPROVAL BY ANOTHER AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. SHOWING MAXIMUM SEISMIC-RESTRAINT RATINGS. RATINGS BASED ON INDEPENDENT TESTING ARE PREFERRED TO RATINGS BASED ON CALCULATIONS. IF PRE-APPROVED RATINGS ARE UNAVAILABLE, SUBMITTALS BASED ON INDEPENDENT TESTING ARE PREFERRED. CALCULATIONS (INCLUDING COMBINING SHEAR AND TENSILE LOADS) TO SUPPORT SEISMIC-RESTRAINT DESIGNS MUST BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.
- 8 SEISMIC RESTRAINTS FOR MEP EQUIPMENT AND SYSTEMS BUILDING IS CLASSIFIED AS SEISMIC DESIGN CATEGORY C. CONTRACTOR SHALL
- PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK AND EQUIPMENT TO MEET ALL LOCAL AND NATIONAL CODE REQUIREMENTS.
- 10 CONTRACTOR'S RESPONSIBILITIES INCLUDE PROVIDING ALL SUBMITTAL'S AND DETAILS WITH STRUCTURAL ENGINEER'S CERTIFICATION FOR PERMITTING.
- SIESMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BU NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS. THE MOST STRINGENT SHALL APPLY

PLUMBING SHEET INDEX

- P0.1 PLUMBING LEGENDS AND ABBREVIATIONS
- P1.1 PLUMBING WASTE & VENT PLAN
- P2.1 PLUMBING SUPPLY PLAN
- P3.1 ENLARGEMENTS PLUMBING P4.1 DETAILS - PLUMBING
- P6.1 PLUMBING SCHEDULES
- P4.2 DETAILS PLUMBING



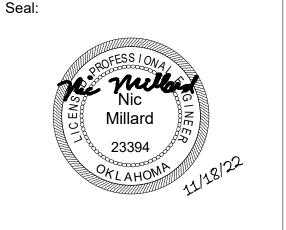
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ABBREVIATIONS

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KEYNOTES

- TWO WAY CLEANOUT SHALL REMAIN AS EXISTING
- 2 REMOVE SANITARY AND VENT PIPING BACK TO MAIN AND CAP. EXISTING FCO AND SANITARY PIPING BELOW GRADE SHALL BE ABANDONED IN PLACE.
- ROOF DRAIN IS TO REMAIN AS EXISTING. ROUTE NEW ROOF DRAIN PIPING AS SHOWN AND CONNECT TO EXISTING.
- 4 SAWCUT FLOOR TO CONNECT NEW SS PIPING TO EXISTING SS PIPING OF EQUAL OR LARGER SIZE IN APPROXIMATE LOCATION. FIELD VERIFY EXISTING PIPE SIZE AND LOCATION.
- 5 PROVIDE 2-WAY CLEANOUT WITH APPROXIMATELY 2'-6" INVERT ELEVATION.
 ROUTE APPROXIMATELY 60 FEET OF SANITARY PIPING TO SITE EXISTING
 SANITARY SEWER SYSTEM.



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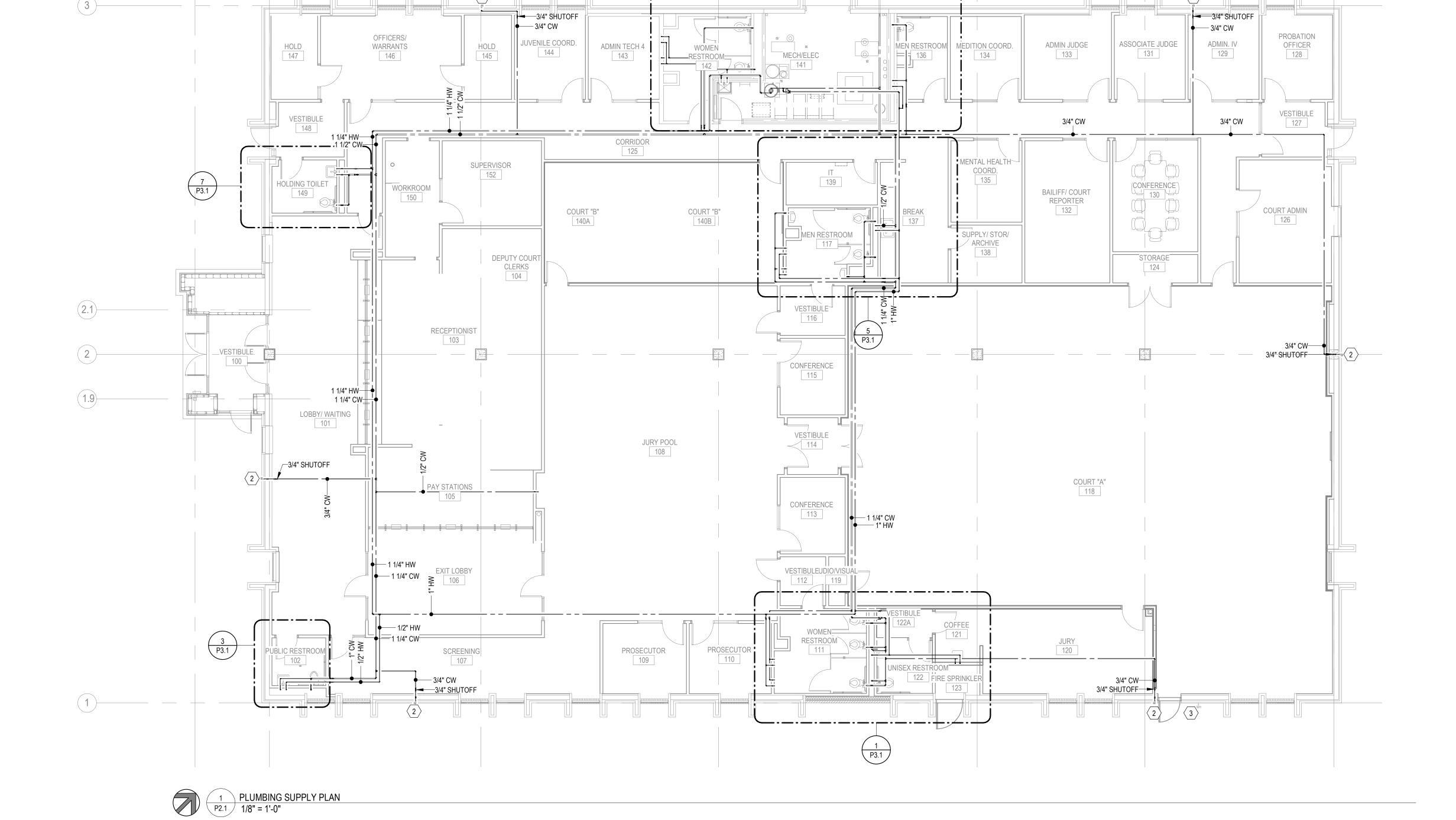
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PLUMBING WASTE & VENT PLAN

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ALL DOMESTIC WATER PIPING SHALL BE INSULATED PER PLUMBING PIPING INSULATION SCHEDULE

KEYNOTES

- EXISTING DOMESTIC WATER SERVICE IS TO REMAIN AS EXISTING. DEMOLISH EXISTING DOMESTIC WATER PIPING AND ROUTE PIPING FROM MECHANICAL ROOM
- WALL HYDRANT TO REMAIN.
- DEMO WALL HYDRANTS, DEMO EXISTING WATER LINE BACK TO MAIN AND CAP AT

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KEYNOTES

4 FLOOR DRAIN SHALL REMAIN AS EXISTING.

PROVIDE CW AND HW SHUT OFF VALVES. FIELD VERIFY EQUIVALENT SIZE AND LOCATION OF EXISTING SANITARY SEWER PIPING AND CONNECT TO EXISTING.

5 FLOOR DRAIN SHALL REMAIN AS EXISTING. REPLACE WITH NEW COVER.

REFER TO OVERALL PLAN FOR CONTINUATION.

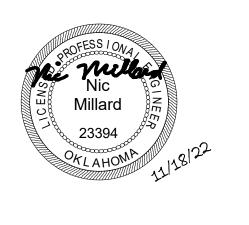
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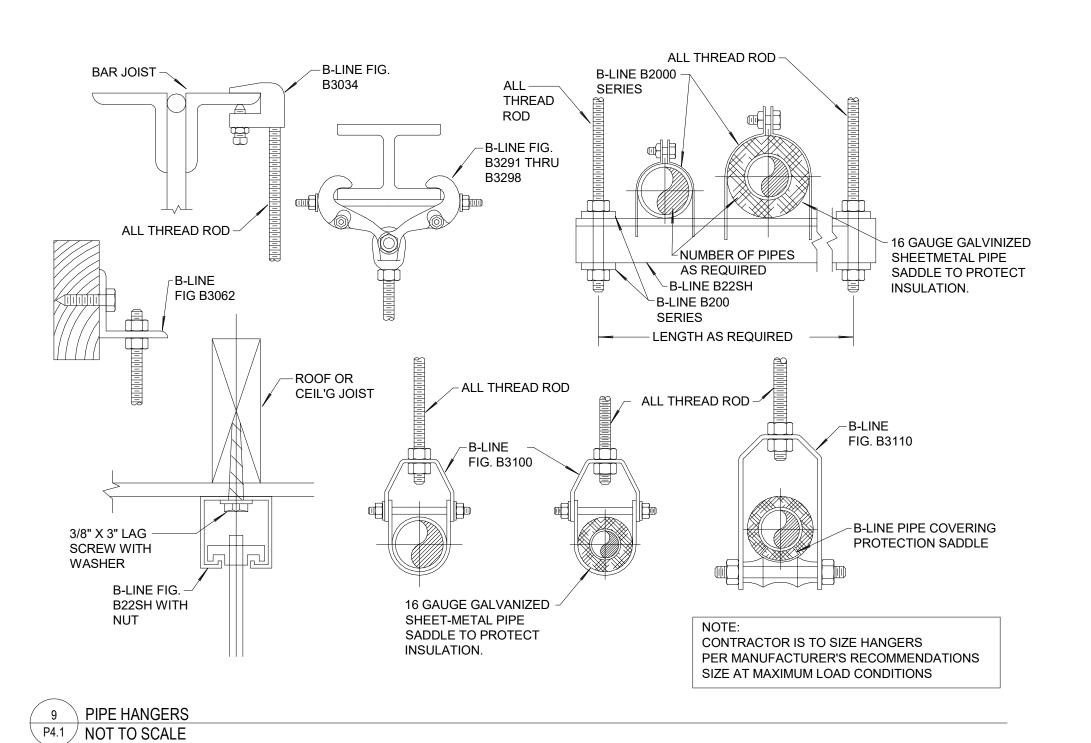


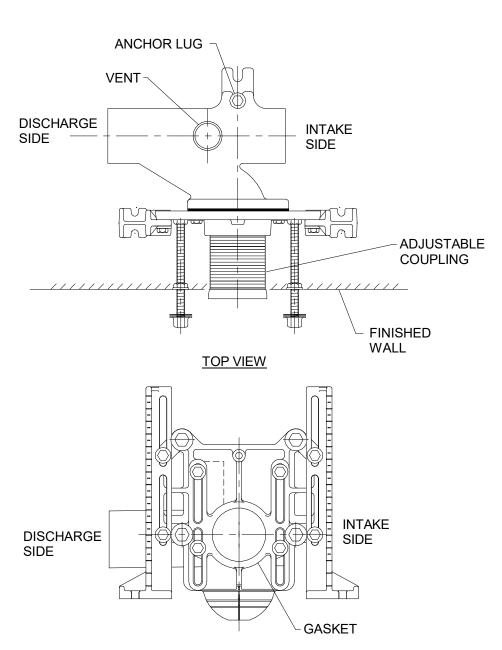
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ENLARGEMENTS - PLUMBING





FRONT VIEW ADJUSTABLE, HORIZONTAL SIPHON JET WATER CLOSET WITH NO-HUB AND SPIGOT CONNECTIONS. COMPLETE WITH CAST IRON RIGHT-HAND, LEFT-HAND, OR DOUBLE MAIN FITTING WITH VENT ADJUSTABLE GASKETED FACEPLATE, UNIVERSAL FLOOR MOUNTED FOOT SUPPORTS, CORROSION RESISTANT ADJUSTABLE ABS COUPLING WITH INTEGRAL TEST CAP, FIXTURE BOLTS, TRIM AND STUD PROTECTORS. REAR ANCHOR TIE DOWN AND BONDED GASKET.

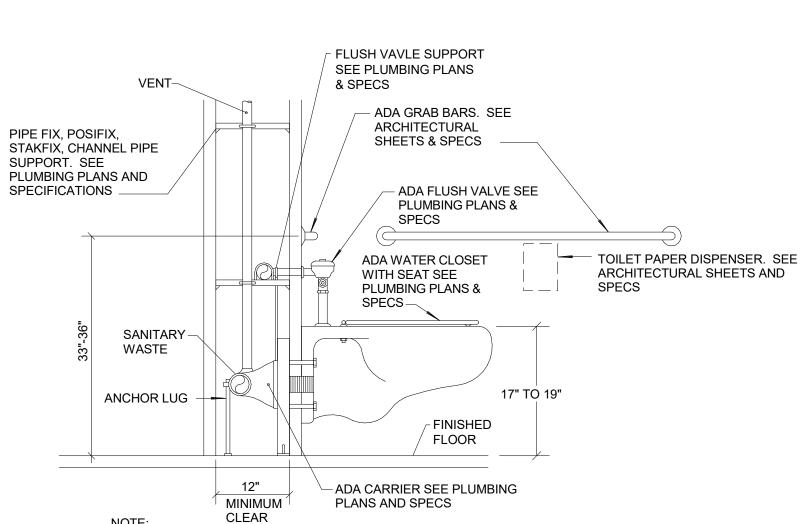
VALVE HANDLE

THREADED BALL

THREADED BRASS

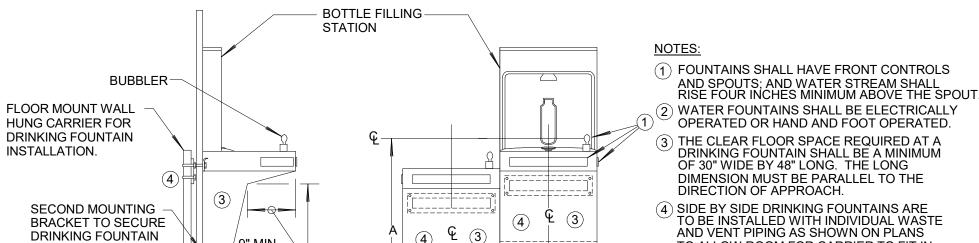
NIPPLE

WATER CLOSET CARRIER ASSEMBLY \P4.1 / NOT TO SCALE



1. TAILPIECE & CARRIER BASE WILL VARY UPON APPLICATION. 2. BACK TO BACK WATER CLOSET INSTALLATION IS SIMILAR. CHASE REQUIREMENTS ARE 14" MINIMUM CLEARANCE.

3. PLUMBING CONTRACTOR IS TO VERIFY ALL ADA MOUNTING HEIGHTS OF GRAB BARS & WATER CLOSETS WITH ARCHITECTURAL PLANS & SPECIFIACTIONS & ADA REQUIREMENTS BEFORE ORDERING AND INSTALLING CARRIER, FLUSH VALVE, & WATER CLOSET.



DRINKING FOUNTAIN TO WALL TO ALLOW ROOM FOR CARRIER TO FIT IN 4" WALL. COMBINATION WASTE AND VENT IS UNACCEPTABLE. PROVIDE 9" MINIMUM COORDINATE WITH ELECTRICAL KNEE SPACE 2 CONTRACTOR, TO PLACE ELECTRICAL OUTLET (GFI) BEHIND CABINET ADA CARRIER SEE DIM. BENDING WHEELCHAIR PLUMBING PLANS AND ANCHOR BOLT SPECS CARRIER TO A 42" FLOOR В 33"

DOUBLE DRINKING FOUNTAIN W/ BOTTLE FILLER

WATER CLOSET CARRIER

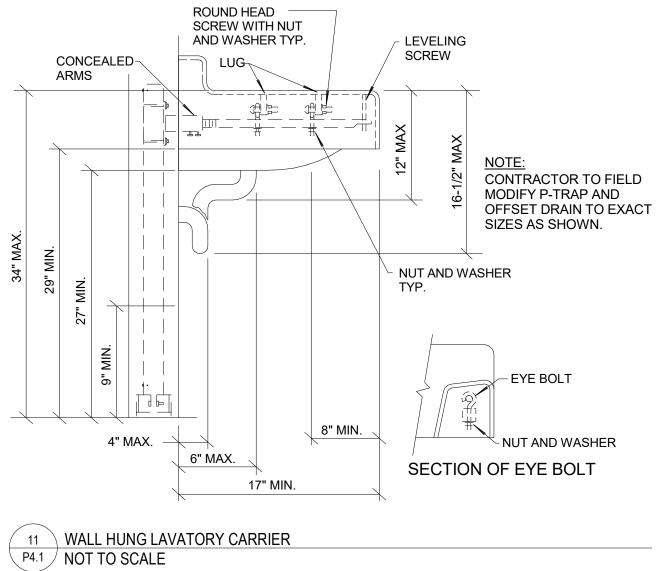
\P4.1 \/ NOT TO SCALE

- SWEAT TO THREAD

MALE ADAPTOR

THREADED BRASS

UNION



FLUSH VAVLE SUPPORT SEE PLUMBING PLANS

- ADA FLUSH VALVE SEE

PLUMBING PLANS &

SPECS

- FINISHED

ADA URINAL CARRIER SEE

PLUMBING PLANS AND SPECS

FLOOR

FLUSH VALVE HANDEL

& SPECS

1. TAILPIECE & CARRIER BASE WILL VARY UPON APPLICATION.

2. PLUMBING CONTRACTOR IS TO VERIFY ALL ADA MOUNTING

INSTALLING CARRIER, FLUSH VALVE, & URINAL.

HEIGHTS OF WATER CLOSETS WITH ARCHITECTURAL PLANS &

SPECIFIACTIONS & ADA REQUIREMENTS BEFORE ORDERING AND

VENT-

PIPE FIX, POSIFIX, STAKFIX, CHANNEL PIPE

SANITARY WASTE

URINAL CARRIER

NOT TO SCALE

PIPE SUPPORT

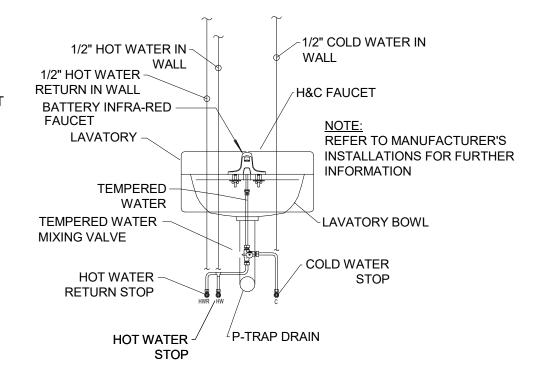
ANCHOR BOLT

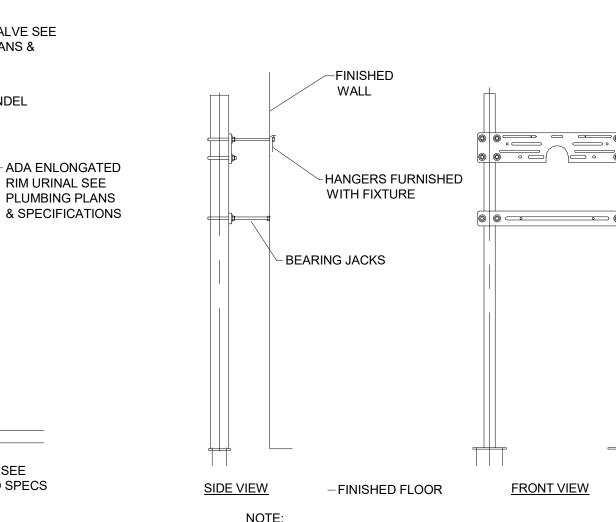
CARRIER TO FLOOR

SUPPORT. SEE PLUMBING PLANS AND

SPECIFICATIONS -

CHASE WALL



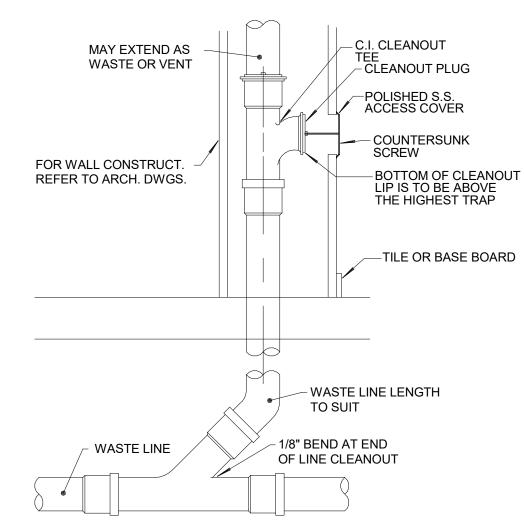


10 WALL HUNG INFRA-RED LAVATORY DETAIL

P4.1 NOT TO SCALE

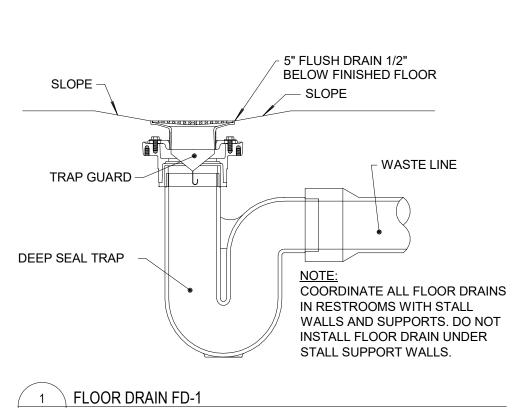
WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM PLATES. COMPLETE WITH RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES, AND MOUNTING FASTENERS.

URINAL CARRIER ASSEMBLY $\mathtt{P}^{4.1} \diagup$ NOT TO SCALE



NOTE: CLEANOUTS ARE REQUIRED EVERY 50 FEET INDOORS AND 100 FEET OUTDOORS. CLEANOUTS INDICATED ON PLANS SHOW SPECIFIC DESIRED LOCATIONS FOR CLEANOUTS. ADDITIONAL CLEANOUTS TO MEET THE ABOVE REQUIREMENT ARE ALSO REQUIRED.

WALL CLEANOUT DETAIL P4.1 NOT TO SCALE



 \setminus P4.1 ig/ NOT TO SCALE

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THE MCKINNEY PARTNERSHIP architects 3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f tmparch.com

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lorman

-BEARING PLATE

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Sheet Title: **DETAILS - PLUMBING**

Sheet Number:

BALL VALVE

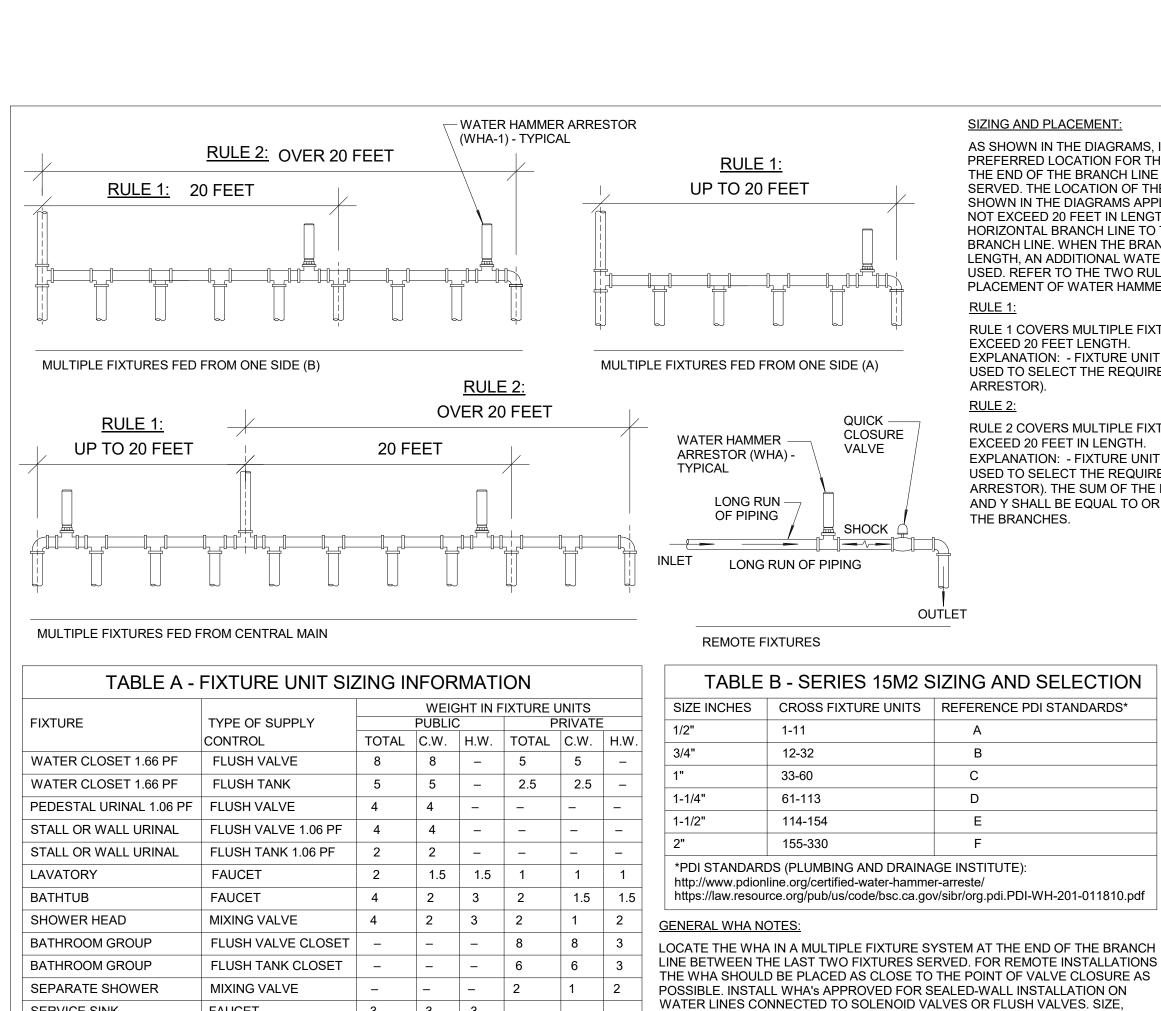
MALE ADAPTOR

COPPER PIPE

VALVE HANDLE -

[∠]SWEAT TO THREAD

EXTENSION



3 3 -

| - | 3

QUICK-ACTING VALVES ARE INSTALLED SHALL BE PROVIDED WITH DEVICES TO SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER

3 3

IPC-INTERNATIONAL PLUMBING CODE

SIZING AND PLACEMENT:

AS SHOWN IN THE DIAGRAMS, IT HAS BEEN ESTABLISHED THAT THE PREFERRED LOCATION FOR THE WATER HAMMER ARRESTOR IS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED. THE LOCATION OF THE WATER HAMMER ARRESTOR SHOWN IN THE DIAGRAMS APPLIES TO BRANCH LINES THAT DO NOT EXCEED 20 FEET IN LENGTH, FROM THE START OF THE HORIZONTAL BRANCH LINE TO THE LAST FIXTURE SUPPLY ON THIS BRANCH LINE. WHEN THE BRANCH LINE EXCEEDS THE 20 FOOT

LENGTH, AN ADDITIONAL WATER HAMMER ARRESTOR SHOULD BE USED. REFER TO THE TWO RULES LISTED TO COVER THE PLACEMENT OF WATER HAMMER ARRESTORS.

OUTLET

LOCATE, AND INSTALL IN ACCORDANCE WITH PDI STANDARD WH 201. IDEALLY THE FLOW PRESSURE IN BRANCH LINES SERVING FIXTURES SHOULD NEVER

EXCEED 55 P.S.I.G. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE THERE

IS NOT AN ACCESSIBLE CEILING. MINIMUM SIZE OF 8" x 8".

604.9 WATER HAMMER. THE FLOW VELOCITY OF THE WATER DISTRIBUTION

INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL BE

HAM-MER. A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE

WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.

RULE 1 COVERS MULTIPLE FIXTURE BRANCH LINES WHICH DO NOT EXCEED 20 FEET LENGTH. EXPLANATION: - FIXTURE UNIT SIZING AND SELECTION TABLE IS USED TO SELECT THE REQUIRED PDI UNIT (WATER HAMMER ARRESTOR).

RULE 2 COVERS MULTIPLE FIXTURE BRANCH LINES WHICH EXCEED 20 FEET IN LENGTH.

EXPLANATION: - FIXTURE UNIT SIZING AND SELECTION TABLE IS USED TO SELECT THE REQUIRED PDI UNIT (WATER HAMMER ARRESTOR). THE SUM OF THE FIXTURE UNIT RATING OF UNITS X AND Y SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.

A VALVE ATTACHED TO A PRESSURIZED WATER

QUANTITY TO OPERATE THE FIXTURE PROPERLY, AND THE GRADUALLY CLOSES TO RESEAL

SUPPLY PIPE AND SO DESIGNED THAT WHEN

ACTIVATED TO OPENS THE LINE FOR DIRECT

FIXTURE TRAPS AND AVOID WATER HAMMER.

AUTOMATICALLY WHEN RELEASED MANUALLY OR THAT IS CONTROLLED BY A MECHANICAL

FLOW INTO THE FIXTURE AT A RATE AND

QUICK-CLOSING VALVE: A VALVE OR FAUCET THAT CLOSES

MEANS FOR FAST-ACTION CLOSING.

SELECTION FOR LONG PIPING RUNS:

THE MAJORITY OF SIZING AND SELECTION APPLICATIONS WILL INVOLVE SINGLE AND MULTIPLE FIXTURE BRANCH LINES. THESE ARE EASILY HANDLED WITH THE SIZING AND SELECTION TABLE. THE REMAINDER OF THE APPLICATIONS INVOLVE INDIVIDUAL RUNS OF PIPING TO A REMOTE ITEM OF EQUIPMENT. THE PROPERLY SIZED WATER HAMMER ARRESTOR FOR SUCH APPLICATIONS CAN BE DETERMINED BY THE TABLES BELOW.

IDEALLY, THE FLOW PRESSURE IN BRANCH LINES SERVING FIXTURES SHOULD NEVER EXCEED 55 PSI. PRESSURE REDUCING VALVES SHOULD BE INSTALLED TO MAINTAIN PROPER PRESSURE. WHEN FLOW PRESSURES ARE 65 TO 85 PSI THE NEXT SIZE WATER HAMMER ARRESTOR SHOULD BE SELECTED. REFER TO SIZING TABLE FOR WATER PRESSURE OVER 65 PSI.

ALL SIZING DATA IN THIS SECTION IS BASED ON FLOW VELOCITIES OF 10 FPS OR THE CERTIFICATION TESTING WAS CONDUCTED WITH A VELOCITY OF 10 FPS TO OFFER ASSURANCE THAT PDI APPROVED UNITS WERE CAPABLE OF HANDLING SHOCK OF MAXIMUM INTENSITY THAT MAY BE ENCOUNTERED.

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE A REMOTE ITEM OF EQUIPMENT, THE WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE. AT THIS LOCATION, THE WATER HAMMER ARRESTOR WILL CONTROL THE DEVELOPED ENERGY AND PREVENT THE SHOCK WAVE FROM SURGING THROUGH THE PIPING

SYSTEM. A TYPICAL EXAMPLE OF PLACEMENT IS AS SHOWN.

SIZING TABLE

SIZE	WATTS MODEL
THREADED	
1/2"	15M2-A
3⁄4"	15M2-B
1"	15M2-C
1"	15M2-D
1"	15M2-E
1"	15M2-F
SOLDER	
1/2"	15M2-AS
3⁄4"	15M2-BS
1"	15M2-CS
1"	15M2-DS
1"	15M2-ES
1"	15M2-FS
DESIGN. THE I	VE ARE WATTS AND IS A BASIS OF FOLLOWING MANUFACTURERS ARE NAME ONLY: WATTS, PPI, PROFLO, ZURN-WILKINS

		FOR WATER PRESSUF	RE UP	TO 65	PSI			
		LENGTH OF PIPE (ft)		NOM	INAL I	PIPE DI	AMET	ER - IN
		OF PIPE	1/2"	3/4"	1"	1.25"	1.5"	2"
		25'	Α	Α	В	С	D	Е
		50'	Α	В	С	D	Е	F
		75'	В	С	D	AE	F	EF
		100'	С	D	Е	F	CF	FF
		125'	С	D	F	AF	EF	EFF
		150'	D	Е	F	DF	FF	FFF
		OVER 65 PSI AND UP 1	O 85F	PSI				
		LENGTH OF PIPE (ft)		NOM	INAL I	PIPE DI	AMET	ER - IN
		OF PIPE	1/2"	3/4"	1"	1.25"	1.5"	2"
		25'	В	В	C	D	Е	F
		50'	В	С	D	Е	F	CF
		75'	С	D	Е	F	CF	FF
		100'	D	Е	F	CF	EF	EFF
Ξ		125'	D	Е	CF	DF	FF	BFFF
NS		150'	Е	F	CF	FF	DFF	FFFF

	SIZII	NG AND	SELEC1	TION TA	BLE	
SIZE (DN)	MODEL	ORDER CODE	MODEL	ORDER CODE	CROSS FIXTURE	REF. PDI STANDARD UNITS
IN	THREADED			SOLDER		
1/2"	15M2-A	0750140	15M2-AS	0750150	1-11	А
3/4"	15M2-B	0750141	15M2-BS	0750151	12-32	В
1"	15M2-C	0750142	15M2-CS	0750152	33-60	С
1"	15M2-D	0750143	15M2-DS	0750153	61-113	D
1"	15M2-E	0750144	15M2-ES	0750154	114-154	E
1"	15M2-F	0750145	15M2-FS	0750155	155-330	F

WATER CLOSET INFRA-RED DETAIL

P4.2 NOT TO SCALE

FAUCET

FAUCET

FAUCET

609.10 WATER HAMMER. ALL BUILDING WATER SUPPLY SYSTEMS IN WHICH

ABSORB THE HAMMER CAUSED BY HIGH PRESSURES RESULTING FROM THE

QUICK CLOSING OF THESE VALVES. THESE PRESSURE-ABSORBING DEVICES

DEVICES SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO QUICK-ACTING

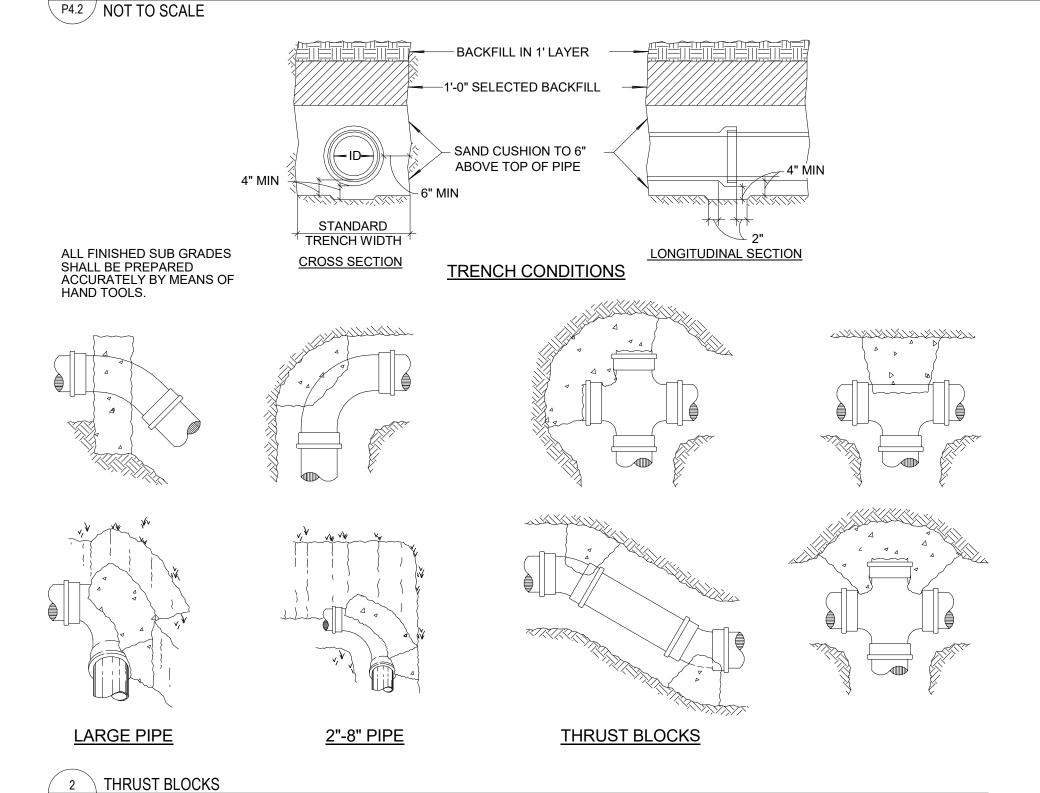
SHALL BE APPROVED MECHANICAL DEVICES. WATER PRESSURE-ABSORBING

SERVICE SINK

LAUNDRY TUBS (1-3)

COMBINATION FIXTURE

UPC-UNIFORM PLUMBING CODE



BACKSPLASH BATTERY INFRA-RED **FAUCET** COUNTER DECK -REFER TO ARCH PLANS & SPECS HOT WATER -COLD WATER - LAVATORY COMBO TEMPERING VALVE

REFER TO MANUFACTURER'S INSTALLATIONS FOR FURTHER INFORMATION

SIDE VIEW

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BATTERY INFRA-RED -

FAUCET

COUNTER DECK

REFER TO ARCH

PLANS & SPECS

ROLLED EDGE

FRONT VIEW

KITCHEN SINK CONNECTION DETAIL P4.2 NOT TO SCALE

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6/A5-01 & SECTION

INFORMATION

SECURE HOT AND COLD TO WALL

INTERIOR ELEVATION

8/A5-03 FOR FURTHER



3600 West Main Suite 200 Norman, Oklahoma 405.360.1400 p 405.364.8287 f tmparch.com



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ROUGH-IN AND MOUNTING HEIGHT SCHEDULE 1. ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLESS SHOWN LARGER ON RISER DIAGRAMS. 2. SIZES SHOWN FOR WASTE ARE FOR RISERS ONLY. 3. ALL DRAIN AND VENT LINES BELOW SLAB SHALL BE 2" OR LARGER. 4. VENT LINES SHALL RISE 6" ABOVE FLOOD LEVEL RIM BEFORE OFFSETTING HORIZONTALLY, EXCEPT FOR INTERCEPTORS LOCATED OUTDOORS. 5. SIZES SHOWN APPLY UNLESS NOTED DIFFERENTLY ON PLANS. COLD HOT WASTE VENT WATER WATER **FIXTURE** HEIGHT OF INSTALLATION DRINKING FOUNTAIN NON-ADA 40" TO TOP OF ORIFICE 1-1/2" 1-1/2" 1/2" ADA 36" TO TOP OF ORIFICE FLOOR DRAINS/SINKS 18" ABOVE GRADE OUTSIDE, 18" A.F.F. INSIDE HOSE BIBB 3" 1-1/2" JANITOR'S SINK 1/2" LAVATORIES AND SINKS, COUNTER 1-1/2" 1-1/4" 1/2" 1/2" MOUNTED LAVATORIES AND SINKS, WALL NON-ADA 31" TO TOP OF RIM 1-1/2" 1-1/4" 1/2" 1/2" ADA 34" TO TOP OF RIM MOUNTED PROVIDE 3" PVC REDUCER, MOUNT AT HEIGHT REQUIRED OPEN HUB DRAIN 2" 1-1/2" FOR INSTALL LOCATION SUPPLY BOX 12" TO BOTTOM OF BOX URINAL FLUSH VALVE WALL NON-ADA 24" TO TOP OF FLOOD LEVEL MOUNTED ADA 17" TO TOP OF FLOOD LEVEL GRADES K-3, 18" TO TOP OF FLOOD LEVEL 2" 1-1/4" GRADES 4-6, 20" TO TOP OF FLOOD LEVEL GRADES 7-9, 22" TO TOP OF FLOOD LEVEL GRADES 10-12, 24" TO TOP OF FLOOD LEVEL UTILITY BOX 2" 1-1/2" 1/2" 1/2" 36" TO BOTTOM OF BOX WATER CLOSET FLUSH VALVE 3" 1-1/2" FLOOR MOUNTED WATER CLOSET FLUSH VALVE NON-ADA 15" TO TOP OF BOWL ADA 17" TO TOP OF BOWL WALL MOUNTED 3" 1-1/2" 1-1/4" GRADES K-3, 12" TO TOP OF BOWL GRADES 4-12, 15" TO TOP OF BOWL

	PIPING MATERIAL SCHEDULE
DESCRIPTION	MATERIAL
ABOVE GROUND GAS	SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. PROVIDE CORROSION-RESISTANT MATERIAL ON PIPING EXPOSED TO ATMOSPHERE OR IN CONTACT WITH MATERIAL EXERTING A CORROSIVE ACTION
ABOVE GROUND SANITARY SEWER AND VENT	SERVICE WEIGHT (SV) CAST IRON HUB AND SPIGOT PIPE AND FITTINGS. COAT INSIDE AND OUTSIDE WITH COAL TAR VARNISH. COMPRESSION NEOPRENE GASKETS FOR JOINTS.
ABOVE GROUND SANITARY SEWER AND VENT	PVC SCHEDULE 40 PIPE AND FITTINGS EXCEPT IN PLENUM RETURN AREAS. IN PLENUM RETURN AREAS WRAP PVC WITH 1" FIRE WRAP.
ACID RESISTANT PIPING ABOVE GROUND	SCHEDULE 40 POLYPROPYLENE WITH MECHANICAL JOINT COUPLINGS EQUAL TO ORION BLUELINE. FIRE RETARDANT. MEETS ASTM D634, SELF EXTINGUISHING. ASTM D2843 SMOKE CHAMBER TEST, MAX. VALUE LESS THAN 50.
ACID RESISTANT PIPING BELOW GROUND	SCHEDULE 40 POLYPROPYLENE WITH MECHANICAL JOINT COUPLINGS EQUAL TO ORION BROWNLINE, NON-FIRE RETARDANT.
ACID RESISTANT PIPING IN PLENUM	SCHEDULE 40 POLYVINYLIDENE (PVDF) WITH MECHANICAL JOINT COUPLINGS EQUAL TO ORION KYNAR BRAND PIPING ASME E-84 STANDARD FOR FLAME SPREAD AND SMOKE GENERATION.
FLEXIBLE GAS PIPING INSIDE BUILDING	FOR FINAL CONNECTION TO EQUIPMENT ONLY. CORRUGATED STAINLESS STEEL GAS LINE WITH POLYETHYLENE JACKET AND FITTINGS BY MFG. MUST MEET ANSI, NFPA, FACTORY MUTUAL CODE AND LISTINGS AS AN ACCEPTABLE GAS PIPING MATERIAL, ALL STATE AND LOCAL CODE APPROVALS. PROVIDE PIPING EQUAL TO TRACPIPE BY OMEGA FLEX. SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
KITCHEN DRAIN PIPING	EPOXY-COATED CAST IRON PIPE OR CPVC AND FITTINGS
STORM DRAIN PIPING, ROOF DRAIN PIPING ABOVE AND BELOW GROUND	STANDARD WEIGHT CAST IRON "NO-HUB" PIPE AND FITTINGS, AND JOINTS OF STANDARD WEIGHT STAINLESS STEEL / NEOPRENE COUPLINGS.
STORM DRAIN PIPING, ROOF DRAIN PIPING BELOW GROUND	SCHEDULE 40 PVC PIPE AND FITTINGS.
UNDERGROUND SANITARY SEWER AND VENT PIPING INSIDE BUILDING AND OUTSIDE BUILDING	SERVICE WEIGHT (SV) CAST IRON HUB AND SPIGOT PIPE AND FITTINGS. COAT INSIDE AND OUTSIDE WITH COAL TAR VARNISH. COMPRESSION NEOPRENE GASKETS FOR JOINTS.
UNDERGROUND SANITARY SEWER AND VENT PIPING INSIDE BUILDING AND OUTSIDE BUILDING	PVC SCHEDULE 40 PIPE AND FITTINGS.
WATER DISTRIBUTION PIPE	WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.4 OF THE I.P.C

			INSULATION THICKNESS					
	T.	NOMINAL PIPE SIZE						
DESCRIPTION	INSULATION TYPE	<1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8			
DOMESTIC COLD WATER PIPING BELOW GRADE	PVC OR HDPE JACKET ONLY, NO INSULATION	1	1	1.5	1.5			
CONDENSATE PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	0.5	1	1	1			
PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	0.5	0.5	0.5	0.5			
PVC AND CAST IRON ROOF DRAINS IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	1	1	1.5	1.5			
WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES	EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER	0.125	0.125	0.125	0.125			
DOMESTIC HOT WATER AND HOT WATER RETURN PIPING BELOW GRADE	ELASTOMERIC OR FOAM. ENCAPSULATE WITH PVC OR HDPE JACKET	1	1	1.5	1.5			
DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE	ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES	1	1	1.5	1.5			
CAST IRON WASTE DRAIN AND WASTE VENT IN ALL AREAS ABOVE GRADE	NOT REQUIRED							
PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE	COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET	1"	1"	1.5"	1.5"			
HEATING HOT WATER	RIGID GLASS-FIBER	1"	1"	1"	1.5"			
CHILLED WATER	RIGID GLASS-FIBER	1"	1"	1"	1.5"			

						FIXTU	RE SCH	EDULE	
		FIXTURE			FAUC	CET/VALVE			
FIXTURE TAG	TYPE	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	MANUFACTURER	MODEL	TYPE	DESCRIPTION	ELEC. POWER
EWC-1	WATER COOLER - DUAL HEIGHT W/BOTTLE FILLER - ADA	ELKAY	LZSTL8WSLP					ADA APPROVED, W/ TOUCH PADS ON FRONT, FLEXIBLE SAFETY BUBBLER, P-TRAP, WATER VALVE, MLP200 CARRIER. MOUNT UNIT AT ADA COMPLIANT HEIGHT.	115V, 1PH 370W, 7A
L-1A	LAVATORY - UNDERMOUNT COUNTER - ADA	AMERICAN STANDARD	0614.000	WHITE VITREOUS CHINA	AMERICAN STANDARD	2175.504	BATTERY	TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, THREE HOLES ON DECK 4" CENTERS, COORDINATE LOCATION OF FAUCET WITH SINK PRIOR TO CUTTING HOLES	
L-2A	LAVATORY - WALL HUNG - ADA	AMERICAN STANDARD	0321.026	WHITE VITREOUS CHINA	AMERICAN STANDARD	2175.504	BATTERY	TMV-1, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONSEALED ARM CARRIER SYSTEM, THREE HOLES ON DECK 4" CENTERS	
S-1	SINGLE BOWL SINK - DROP-IN	ELKAY	ELUH1316	STAINLESS STEEL	ELKAY	LKAV3032	MANUAL	SINGLE LEVER POST MOUNT, CIRCULAR BASE, 13" HIGH SPOUT, 8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK.	
S-2	DUAL BOWL SINK - COUNTER DROP-IN	ELKAY	ELUH3220PD	STAINLESS STEEL	ELKAY	LKAV3031	MANUAL	DUAL LEVER FAUCET WITH SPRAY, 12" HIGH SWING SPOUT, 8" REACH, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK AND BADGER 1 IN-SINK-ERATOR DISPOSAL.	
UR-1	URINAL - WALL HUNG	AMERICAN STANDARD	6590.001US	WHITE VITREOUS CHINA	ZURN	186 ESS 0.5	BATTERY	INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, MANUAL OVERRIDE.	
UR-1A	URINAL - WALL HUNG - ADA	AMERICAN STANDARD	6590.001US	WHITE VITREOUS CHINA	ZURN	186 ESS 0.5	BATTERY	INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0615 URINAL SUPPORT, MANUAL OVERRIDE.	
WC-1	WATER CLOSET - WALL HUNG	AMERICAN STANDARD	3351.101	WHITE VITREOUS CHINA	SLOAN	111 ESS 1.6	BATTERY	1.6 GPF SIPHON JET BOWL, EZ-FLO 65913 OPEN FRONT SEAT, J.R. SMITH 0210-M54-XK 1000# CARRIER. ANITMICROBIAL CERAMIC GLAZE. INSTALL AT ADA COMPLIANT HEIGHT.	
WC-1A	WATER CLOSET - WALL HUNG - ADA	AMERICAN STANDARD	3351.101	WHITE VITREOUS CHINA	SLOAN	111 ESS 1.6	BATTERY	1.6 GPF SIPHON JET BOWL, EZ-FLO 65913 OPEN FRONT SEAT, J.R. SMITH 0210-M54-XK 1000# CARRIER. ANITMICROBIAL CERAMIC GLAZE. INSTALL AT ADA COMPLIANT HEIGHT.	
WC-2A	WATER CLOSET - FLOOR - FLUSH VALVE - ADA	AMERICAN STANDARD	3461.001	WHITE VITREOUS CHINA	SLOAN	111 ESS 1.6	BATTERY	1.6 GPF, EZ-FLO 65913 OPEN FRONT SEAT, Z5972-COMB CLOSET BOLT/WAX RING KIT, INSTALL AT ADA COMPLIANT HEIGHT.	

COORDINATE WITH OWNER TO VERIFY THAT FIXTURE SELECTIONS MATCH SIMILAR PROPERTIES. 2. INSTALL FIXTURE, OPTIONS, AND ACCESORIES PER MANUFACTURER'S RECOMMENDATIONS.

					F	LOOR DRAIN SCHEDULE	
				MATERIAL D	ESCRIPTION		
ID	DESCRIPTION	MANUFACTURER	MODEL	DRAIN BODY	STRAINER	SPECIFICATION	REMARKS
FD-1	FLOOR DRAIN	WATTS	FD-100-A	EPOXY COATED	NICKEL BRONZE	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY	ALL
				CAST IRON		WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.	

. REFER TO DIVISION 22 SPECIFICATIONS FOR ALTERNATE MANUFCTURERS. PREBID PREAPPROVAL IS REQUIRED.

2. DESCRIPTION TO TAKE PRECEDENCE OVER MODEL NUMBER.

			С	OMES	STIC CIR	CULAT	ING PL	JMP SC	HEDU	JLE						
						PUMP		MOT	OR							
					DESIGN		DRIVE			UNIT						
ID	SYSTEM	MANUFACTURER	MODEL NO.	TYPE	FLOW	HEAD	TYPE	POWER	ECM	WEIGHT	FLA	MCA	MOCP	VOLT	PH	REMARKS
CP-	1 DOM. HW-R	BELL & GOSSETT	ECOCIRC XL 36-45	INLINE	3.9 GPM	31.3 FT	DIRECT	174 W	Yes	20 lb	5.8 A	7.3 A	15.0 A	120 V	1	ALL

. REPLACE EXISTING RECIRCULATION PUMP AND ESTABLISH NEW HOT WATER RECIRCULATION LOOP TO ALL HOT WATER FIXTURES. . REFER TO DIVISION 22 SPECIFICATIONS FOR ALTERNATE MANUFCTURERS. PREBID PREAPPROVAL IS REQUIRED.

INTERLOCK WITH AQUASTAT.

TYPE ID	NOMINAL DIAMETER	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
FCO		Floor Cleanout with Round Stainless Steel Top	WATTS	CO-1204-R	ALL
WCO-1		Line Cleanout with Stainless Steel Cover	WATTS	CO-452-RD	ALL
WCO-1		Line Cleanout with Stainless Steel Cover	WATTS	CO-454-RD	ALL
SHUTOFF	1/2"	1/4 TURN BALL VALVE			ALL
SHUTOFF	3/4"	1/4 TURN BALL VALVE			ALL
SHUTOFF	1"	1/4 TURN BALL VALVE			ALL
SHUTOFF	1 1/4"	1/4 TURN BALL VALVE			ALL
CHECK	3/4"	CHECK VALVE			ALL

REFER TO DIVISION 22 SPECIFICATIONS FOR ALTERNATE MANUFCTURERS.

. DESCRIPTION TO TAKE PRECEDENCE OVER MODEL NUMBER.

PREBID PREAPPROVAL IS REQUIRED.

(EXISTING) GAS-FIRED WATER HEATER SCHEDULE VOLT PH REMARKS MANUFACTURER MODEL NO. INPUT EFF VOL GWH-1 Bradford White MI40T6FBN 40000 Btu/h 80.0% 40.0 gal 120 V 1 ALL INSTALL PER MANUFACTURERS SPECIFICATIONS AND CONNECT TO EXISTING FLUE AND EXPANSION TANK.
 REFER TO DIVISION 22 SPECIFICATIONS FOR ALTERNATE MANUFCTURERS. PREBID PREAPPROVAL IS REQUIRED.

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> 3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f tmparch.com

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Revisions:

Project Number: CM083319 (201253R)

Sheet Title: PLUMBING SCHEDULES

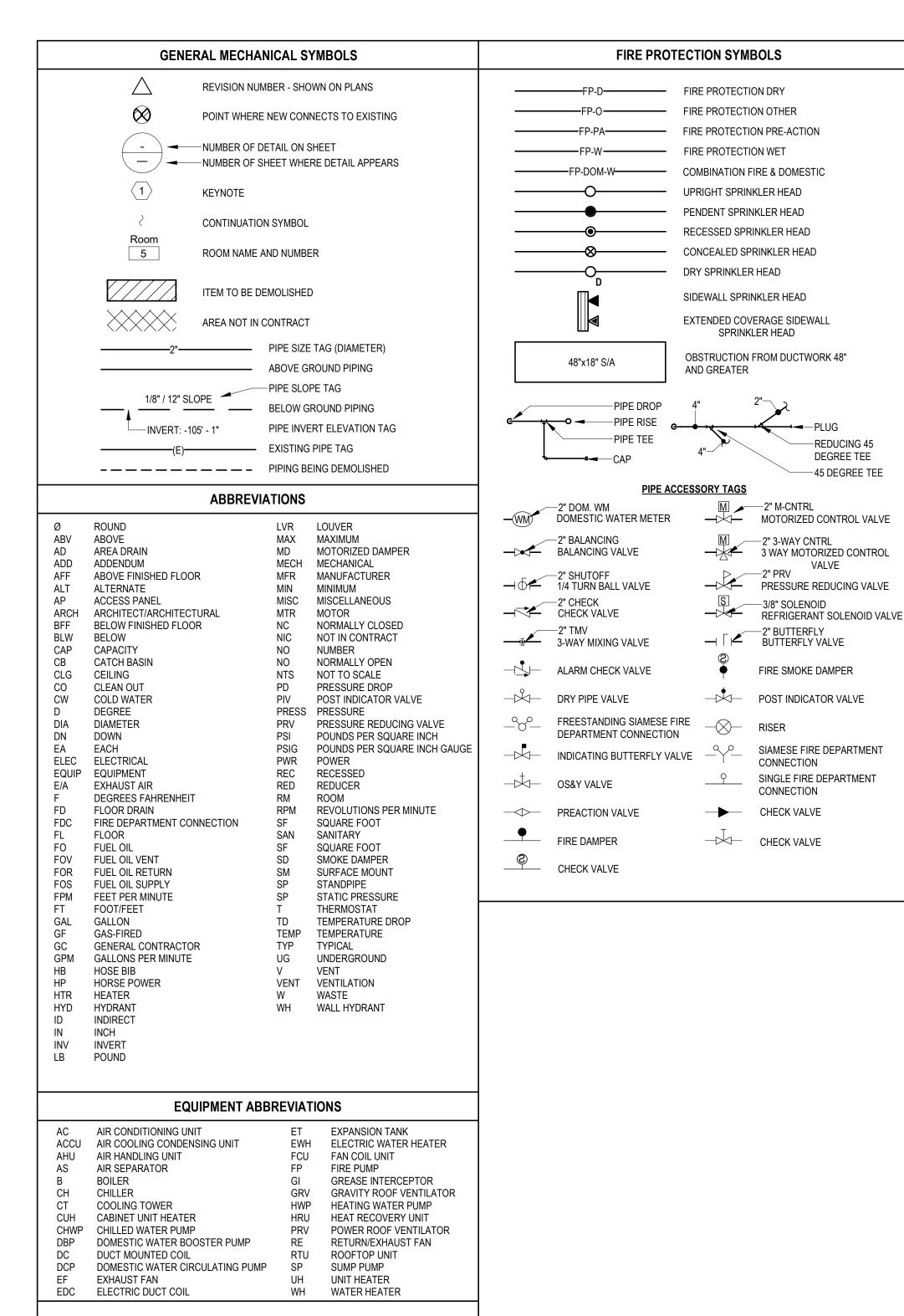
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-CONTINUATION INSIDE BUILDING.

INSTALL A 2 HOLE STANDARD,

WITH FLANGE ISOLATION KIT

-POLY WRAP ALL MECH JOINTS TO KEEP

MECH JOINT DUCTILE IRON PIPE

NFPA STANDARDS

DOUBLE NUTS

CONC AWAY FROM FASTENING DEVICES

1. INSTALLATION MUST COMPLY WITH

2. PROVIDE FOUR (4) 3/4" RODS WITH

8 HOLE FLANGE 12" AFF.

-CONCRETE FLOOR

GENERAL NOTES:

CONCRETE

THRUST

BLOCK

GENERAL FIRE SPRINKLER NOTES

- RUN ALL PIPING PARALLEL OR PERPENDICULAR TO STRUCTURE IN ALL AREAS. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATION OF HORIZONTAL SPRINKLER PIPING WITH OTHER TRADES TO MISS ALL LIGHT FIXTURES, DUCTS. VAV BOXES, AIR DIFFUSERS AND ALL OTHER ITEMS WHERE CEILING CLEARANCES ARE CLOSE.
- DESIGN, FABRICATE, INSTALL THE FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM IN AN ACCEPTABLE MANNER TO THE STATE HEALTH DEPARTMENT, LOCAL FIRE MARSHALL AND THE ARCHITECT/ENGINEER.
- PAY ALL PERMITS, LICENSES, FEES, DEPOSITS AND CHARGES IN CONNECTION WITH THE WORK, EXCEPT AS NOTED HEREIN. SECURE ALL NECESSARY
- APPROVALS. DESIGN AND INSTALL THE SYSTEM PER THE REQUIREMENTS OF NFPA NO. 13. ALL DEFICIENCIES SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR AND ANY DEVIATIONS FROM THE REQUIREMENTS IN NFPA NO. 13 AND/OR THE
- APPROVED PLANS SHALL REQUIRE SPECIAL PERMISSION FROM THE ARCHITECT COMPLY WITH ALL RULES, REGULATIONS, LAWS AND ORDINANCES OF THE STATE, LOCAL, CITY OR COUNTY AUTHORITIES AND UTILITY COMPANIES. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED,
- INSTALLED AND TESTED BY AN EXPERIENCED CONTRACTOR APPROVED BY THE ARCHITECT AND LICENSED BY THE STATE TO PERFORM SUCH WORK
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL. BEFORE BEING SENT TO THE ARCHITECT, ALL SHOP DRAWINGS MUST BEAR THE LOCAL FIRE MARSHALL'S STAMP OF APPROVAL. SUBMIT COMPLETE LAYOUT DRAWING OF OVERHEAD SPRINKLER SYSTEM AND
- RELATED EQUIPMENT INDICATING RELATIONSHIP OF ALL THE OVERHEAD ITEMS INCLUDING CEILING AIR DIFFUSERS, LIGHTING FIXTURES, BEAMS AND ALL OTHER ITEMS. ALL SPRINKLER HEADS SHALL BE SPACED PER NFPA. SUBMIT COMPLETE DETAILS AND SECTIONS TO CLEARLY DEFINE AND CLARIFY
- THE DESIGN, INCLUDING A LIST OF MATERIALS DESCRIBING ALL PROPOSED MATERIALS WITH MANUFACTURER'S NAME AND CATALOG NUMBER. PROVIDE SPRINKLER HEAD(S) FOR EACH ROOM/SPACE FOR COMPLETE
- PROTECTION. UPON COMPLETION OF THE SPRINKLER SYSTEM INSTALLATION, TEST AND RE-TEST THE COMPLETE INSTALLATION AND MAKE ALL CORRECTIONS AS NECESSARY TO SECURE ACCEPTANCE BY FIRE MARSHALL. FURNISH ALL TEST EQUIPMENT AND PERSONNEL REQUIRED.
- AFTER THE FIRE SPRINKLER SYSTEM HAS BEEN COMPLETELY TESTED. INSPECTED AND APPROVED, SECURE A LETTER OF FINAL ACCEPTANCE FROM THE ADMINISTRATIVE AUTHORITY ADDRESSED TO THE SPRINKLER COMPANY RESPONSIBLE FOR THE INSTALLATION, PREPARED IN TRIPLICATE. DELIVER ALL
- THREE COPIES TO THE ARCHITECT. UNDERWRITERS LABORATORIES (UL) AND/OR FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVED EQUIPMENT SHOULD BE UTILIZED WHERE APPLICABLE, AND THE DETAILS OF THE INSTALLATION SHOULD CONFORM TO
- FACTORY MUTUAL ENGINEERING ASSOCIATION (FMEA) GOOD PRACTICES. 14 A CORROSIVE-RESISTANT PLACARD SHALL BE PLACED ON THE BASE OF THE RISER STATING THE DESIGN CRITERIA AND RESULTING DEMAND AT THE BASE OF THE RISER, INCLUDING HOSE STREAM ALLOWANCES. ALL PIPING, FITTINGS,
- HANGERS, VALVES, AND DEVICES ARE TO COMPLY WITH NFPA NO. 13. ALL PIPES SHALL MEET OR EXCEED CORROSION RESISTANCE RATIO OF SCHEDULE 40 STEEL PIPE. FIELD COORDINATION IS REQUIRED ESPECIALLY WHEN CUTTING OR ADJUSTING PIPES FOR SPRINKLER INSTALLATION. AS PER THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH, ALL UNDERGROUND PIPING IS
- 16 FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR AND INSTALLED BY SPRINKLER CONTRACTOR. WIRING SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR. EXPOSED SPRINKLER PIPING SHALL BE PAINTED, COLOR SHALL BE SPECIFIED BY ARCHITECT.
- 17 PROVIDE COMPONENTS FOR FULL FLOW TESTING OF BACKFLOW DEVICE. 18 IN AREAS SUBJECT TO FREEZING, PROVIDE DRY SPRINKLER SYSTEM OR COORDINATE WITH MECHANICAL SUBCONTRACTOR TO PROVIDE HEATING EQUPMENT TO MAINTAIN ANY SPACES AT 40°F OR ABOVE.
- 19 FURNISH SPRINKLERS WITH FACTORY WHITE FINISH UNLESS NOTED OTHERWISE. 20 CONTRACTOR SHALL PROVIDE QUICK RESPONSE, FULLY RECESSED SPRINKLER
- HEADS UNLESS NOTED OTHERWISE. FIRE CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE BID: HAVE A FLOW TEST DONE FOR THE FIRE SUPPRESSION TO DETERMINE IF A BOOSTER PUMP WILL BE REQUIRED. IF ONE IS REQUIRED, CONTRACTOR SHALL PROVIDE IT. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR

- 1) PRIME AND PAINT WITH (1) COAT OF PRIMER AND (2) COATS OF RED ENAMEL PAINT. ATTACH 1-1/2" WIDE WHITE REFLECTIVE TAPE ON 4 SIDES OF PIPE EVENLY SPACE
- (4) 36"x36"x12" HIGH REINFORCED CONCRETE PAD WITH 3/8" REBAR ON 6" CENTER BOTH WAYS. CHAMFER EDGES.
- GUARDIAN FIRE EQUIPMENT 6600 SERIES FDC CONNECTIONS, FORGED ALUMINUM STORZ CAP WITH POWDER COAT FINISH AND
- 8) POTTER ROEMER #5982 3/4" STRAIGHT AUTOMATIC DRAIN DEVICE

FP0.1/ NOT TO SCALE

FROM END OF

REFER TO DETAIL

FIRE RISER,



FINISHED-

GRADE

(2) IDENTIFICATION PLATE

EACH CORNER OF CONCRETE PAD. PRIME AND PAINT WITH (1) COAT OF PRIMER AND (2) COATS OF FIRE RED ENAMEL PAINT. ATTACH 1-1/2" WIDE WHITE REFLECTIVE TAPE ON 4 SIDES OF PIPE EVENLY SPACE

CONCRETE FOOTING FOR BALLARD, TYPICAL OF 4

A PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND

FIRE PROTECTION GENERAL NOTES

RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY

B THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE

C THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED

REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID

SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING

ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL

PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT

119. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED

E THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW

F REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION

G DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL

ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS SUCH AS IT 139 OR A/V

REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS

CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL

BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY

H ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED

J THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS

REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO

K AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE

ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL

FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB

AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD

SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE

TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF

ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST

CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION

CONTRACTOR SHALL COORDINATE WITH CIVIL ENGINEER AND IS RESPONSIBLE

FOR SUBMITTING FLOW TEST FOR UTLITY MAIN. IF PRESSURE IS BELOW 60 PSI

CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE

M AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE

GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN

CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS

CONTRACTOR'S SHOP DRAWINGS.

BRANCH LINE FOR EACH ROOM.

TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

ROOM WHICH HAS A SUSPENDED CEILING.

SHALL BE PROVIDED AT THE DRAIN VALVE.

ENGINEER WILL A VARIANCE BE PROVIDED.

N SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

AND 2000 GPM, FOLLOW UP WITH DESIGN TEAM.

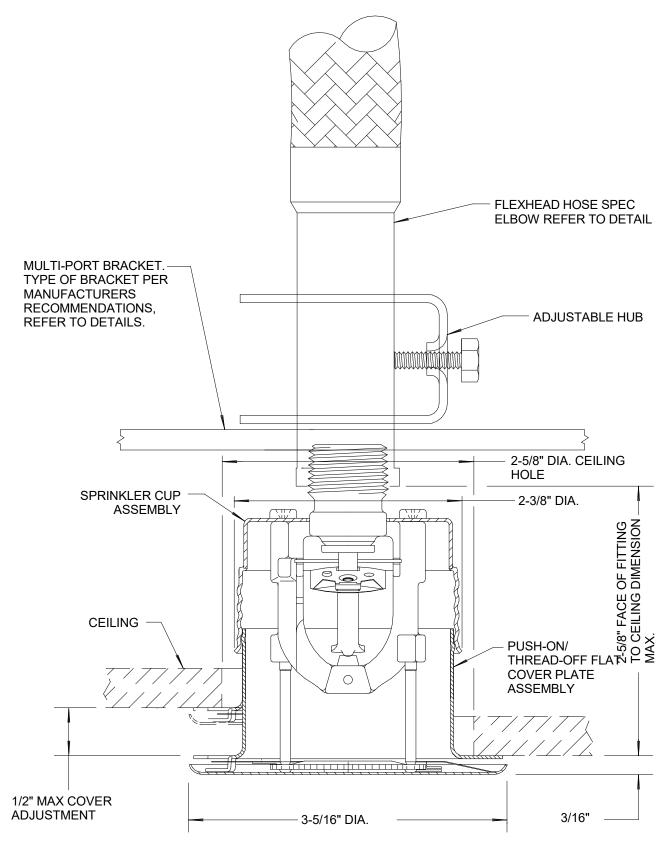
FROM THE ENGINEER.

ADDITIONAL COST TO THE OWNER.

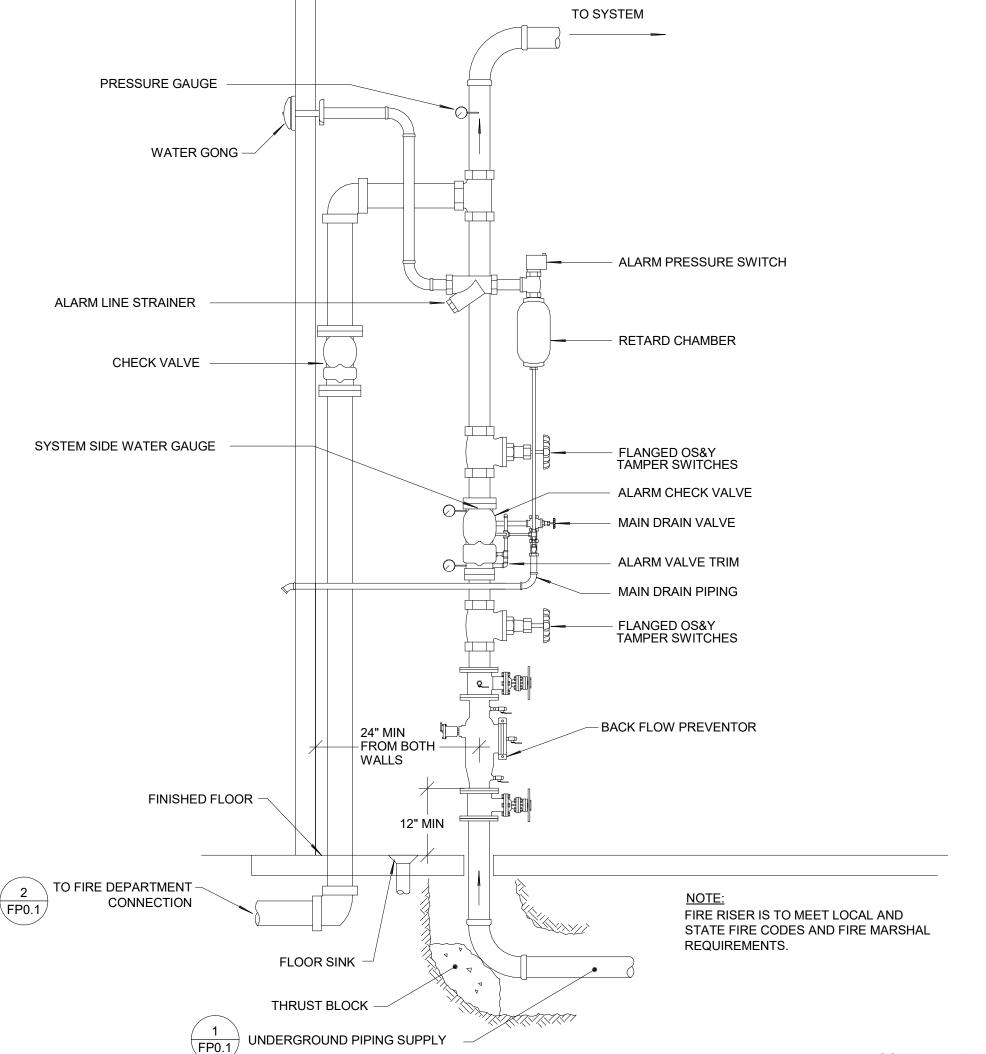
CONFLICTS.

MECHANICAL SHEET INDEX

FP0.1 FIRE PROTECTION TITLE SHEET FP1.1 FLOOR PLAN - FIRE PROTECTION



CONCEALED SPRINKLER HEAD W/ FLEXIBLE HOSE CONNECTION $^{\mathsf{FP0.1}}/\mathsf{NOT}$ TO SCALE



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Revisions:

Project Number: CM083319 (201253R)

Sheet Title: FIRE PROTECTION TITLE SHEET

Sheet Number:

REMOTE STORZ FDC KEYED NOTES

(3) 6" DUCTILE IRON PIPE BALLARD FILLED WITH CONCRETE. (1) IN

(9) CONCRETE THRUST BLOCKS

3 \ FIRE PROTECTION RISER ASSEMBLY DETAIL FP0.1 NOT TO SCALE

(5) PEA GRAVEL DRY WELL

B) REMOTE FIRE DEPARTMENT CONNECTION 48" OFF OF FINISH GRADE GALVANIZED STEEL ELBOW, VERIFY CONNECTION TYPES WITH AHJ.

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NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

1 WATER SERVICE LINE EXTENSION DETAIL

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN

THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE

USED IN THIS SET OF DRAWINGS.

EXTERIOR WALL-

PROVIDE CLEARANCE

AROUND PIPE PER

NFPA STANDARDS-

WHEN THIS PIECE

THE FIRST JOINT-

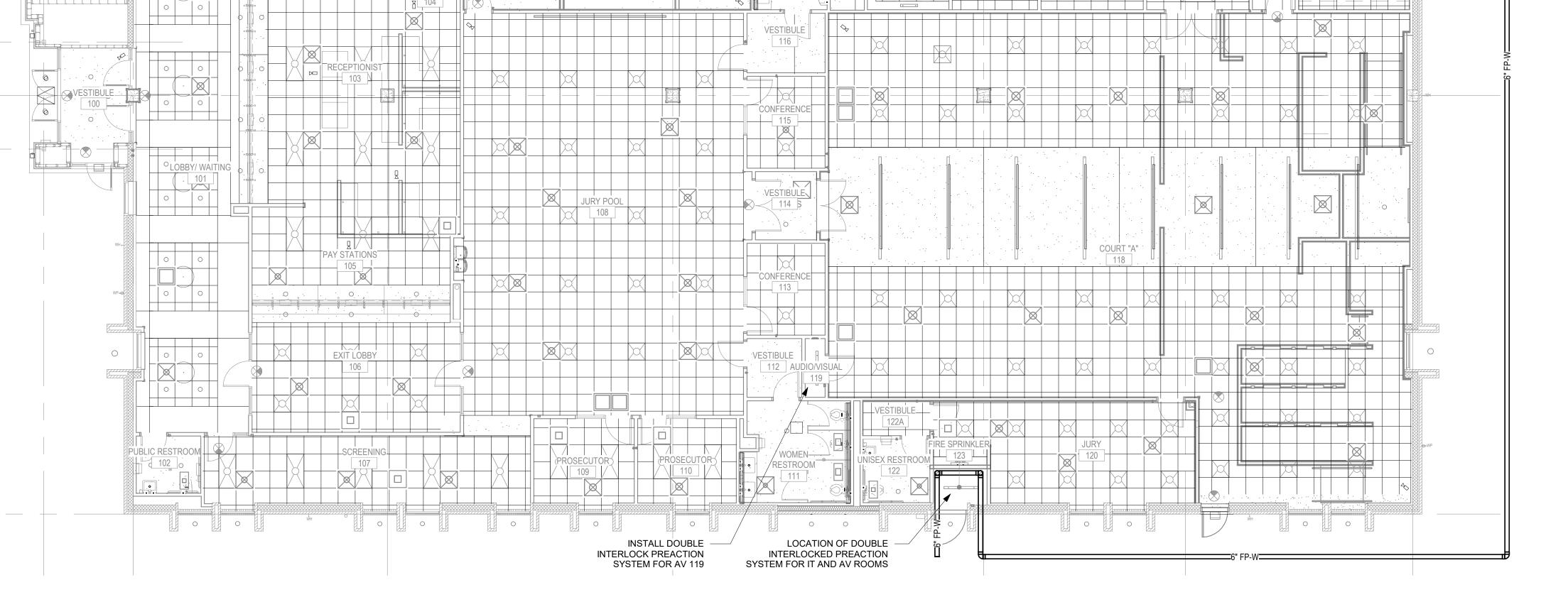
RETAINING

GLAND-

EXCEEDS 12'-0", RODS

MAY BE RUN ONLY TO

FP0.1 / NOT TO SCALE



139

__MEN RESTROOM □

WOMEN

INSTALL DOUBLE
 INTERLOCK PREACTION
 SYSTEM FOR IT 139

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APPROXIMATE LOCATION OF -NEW FDC AND HORN STROBE. REFER TO ARCH FOR LOCATION.

 Webste
 Norman, 321

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Sheet Title: FLOOR PLAN - FIRE PROTECTION

Sheet Number:

PROVIDE TAMPERPROOF SPRINKLER HEADS IN 147 HOLD

PROVIDE TAMPERPROOF SPRINKLER HEADS IN

(2.1)—

1.9

149 HOILDING TOILET

	l C	LECOMIN	MUNICATIONS SYMBOLS)		
SYMBOL	DESCRIPTION	SYMBOL	TELECOMMUNICATIONS DESCRIPTION	SYMBOL	DESCRIPTION	
V	COMMUNICATIONS OUTLET	- - -	CEILING COMMUNICATIONS OUTLET	Ø STIMBOL	FLOOR COMMUNICATIONS OUTLET	
•		T	MUTOA - MULTI-USER TELECOMMUNICATIONS	V	UNSHIELDED TWISTED PAIR COPPER CABLE -	
	SPECIAL SERVICES COMMUNICATIONS OUTLET		OUTLET ASSEMBLY	C-#-G	"C" INDICATES CATEGORY NUMBER "#" INDICATES NUMBER OF PAIRS	
	WIRELESS ACCESS POINT	^X	CABLE SLACK ("X" INDICATES SLACK LENGTH)	^	"G" INDICATES AWG, "X" INDICATES CABLE NAME	
(3) #-T	FIBER OPTIC CABLE ("#" INDICATES NUMBER OF STRANDS	XXX ▼	CABLE PROTECTOR ("XXX" INDICATES NUMBER OF PROTECTORS)	X	CROSS-CONNECT FIELD	
⊘ #-T X	"T" INDICATES TYPE AND "X" INDICATES CABLE NAME)	((e))	CEILING MOUNTED DAS ANTENNA	-	SPLICE	
• 🔘	COMBINATION POWER/DATA FLOOR OUTLET	((p))	WALL MOUNTED DAS ANTENNA	Т	MECHANICAL TERMINATION OF CABLE	
• \ AV	COMBINATION POWER/DATA/AV FLOOR OUTLET					
	GOWIDINATION TO WEINDATAVAY TEOGRA GOTEET		AUDIOVISUAL			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
\$ }#	WALL/SURFACE MOUNTED LOUDSPEAKER ("#" INDICATES DEVICE TYPE IN SCHEDULE)	S *	CEILING MOUNTED LOUDSPEAKER ("#" INDICATES DEVICE TYPE IN SCHEDULE)	⊗ #	GROUND/FLOOR MOUNTED LOUDSPEAKER ("#" INDICATES DEVICE TYPE IN SCHEDULE)	
Ţ	TELEVISION/VIDEO OUTLET	V	VOLUME CONTROL	D #	PROJECTOR ("#" INDICATES DEVICE TYPE IN SCHEDULE)	
_	CALL IN SWITCH	— ₩ #	WALL MICROPHONE OUTLET	<u>₽#</u>	CEILING MOUNTED FLAT PANEL DISPLAY	
	AV WALL OUTLET		("#" INDICATES DEVICE TYPE IN SPECIFICATIONS) FLOOR MICROPHONE OUTLET		("#" INDICATES DEVICE TYPE IN SCHEDULE) WALL MOUNTED FLAT PANEL DISPLAY	
AV #	("#" INDICATES DEVICE TYPE IN SCHEDULE)	₩ #	("#" INDICATES DEVICE TYPE IN SPECIFICATIONS)	#	("#" INDICATES DEVICE TYPE IN SCHEDULE)	
(A) #	FLOOR AV OUTLET ("#" INDICATES DEVICE TYPE IN SCHEDULE)	- A V- _{S/F,#}	AV CEILING OUTLET ("S/F" INDICATES SURFACE OR FLUSH MOUNTED "#" INDICATES DEVICE TYPE IN SCHEDULE)	#	FRONT/REAR PROJECTION SCREEN OR INTERACTIVE WHITEBOARD ("#" INDICATES DEVICE TYPE IN SCHEDULE)	
RS #	AV ROOM SCHEDULER ("#" INDICATES DEVICE TYPE IN SPECIFICATIONS)	CP #	AV CONTROL PANEL ("#" INDICATES DEVICE TYPE IN SPECIFICATIONS)	# <u>AV</u>	AV CAMERA ("#" INDICATES DEVICE TYPE IN SPECIFICATIONS)	
#,D	AV BACKBOX, ("#" INDICATES TYPE IN SCHEDULE) ("#D" INDICATES # OF DATA CABLES)	Ø #	AV CEILING BACKBOX, ("#" INDICATES TYPE IN SCHEDULE) ("#D" INDICATES # OF DATA CABLES)		, , , , , , , , , , , , , , , , , , , ,	
#,U	(#D INDICATES# OF DATA CADLES)	π	SECURITY			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
₽ XX	WALL MOUNT MOTION SENSOR (90=90°, 180=180°, NB=NARROW BEAM)	(E)	POINT OF CONNECTION FOR 120VAC BY ELECTRICAL CONTRACTOR	KP	SECURITY KEYPAD DEVICE	
	CEILING MOUNT MOTION SENSOR	GB	GLASS BREAK SENSOR	KS	KEY SWITCH	
	SOUNDER	IC _{S,M}	INTERCOM STATION ("S" SUBSTATION, "M" MASTER STATION)	PS	DOOR LOCK POWER SUPPLY	
	STROBE		JUNCTION BOX FOR SPECIALTY SECURITY SENSOR	RA	REMOTE ANNUNCIATOR DEVICE	
<u> </u>		· · · · · · · · · · · · · · · · · · ·	AUTOMATIC OPERATOR CONNECTION POINT		REQUEST TO EXIT DEVICE	
\square_{M}	ACCESS CONTROL DEVICE LOCATION "M" INDICATES MULLION MOUNT	∠ G,D	('G' GATE, 'D' DOOR)	RQE _{M,P}	("M" MOTION SENSOR, "P" PUSH BUTTON)	
	ELECTRONICALLY CONTROLLED AND	⊞⊲	FIXED BOX CAMERA ("#" INDICATES NUMBER IN SCHEDULE)	SEC	SECURITY EQUIPMENT CABINET(S), TYPE AND QUANTITY MAY VARY FROM WALL MOUNTED,	
•	MONITORED DOOR LOCATION (REFER TO ACCESS CONTROL OPENING SCHEDULE)		FIXED DOME CAMERA		FREE STANDING RACKS, OR EXTERIOR RATED, REFER TO DETAILS	
	MONITORED DOOR LOCATION		("#" INDICATES NUMBER IN SCHEDULE)		PTZ DOME CAMERA	
\Phi	(REFER TO ACCESS CONTROL OPENING SCHEDULE)	● _{P/D}	SECURITY PUSH BUTTON - ("P/D" INDICATES PANIC ALARM OR DOOR RELEASE)		("#" INDICATES NUMBER IN SCHEDULE)	
0./4.10.01		OVANDOL	PATHWAYS	OVANDOL	PEROPRIENT	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION CONDUIT OF FEVE WITH BUSHINGS	SYMBOL	DESCRIPTION	
	GROUND BAR		CONDUIT SLEEVE WITH BUSHINGS		DISTRIBUTION RINGS	
	WALL MOUNT TELECOMMUNICATIONS EQUIPMENT		J-HOOK STYLE CABLE HANGERS	X	CABLE TRAY DROP OUT	
 	CABLE TRAY ("#" INDICATES TRAY DIMENSIONS)	$\prod_{\#}$	CABLE RUNWAY ("#" INDICATES TRAY DIMENSIONS)		CABLE TRAY - SOLID BOTTOM ("#" INDICATES TRAY DIMENSIONS)	
	CABLE TRAY - WALL MOUNTED ("#" INDICATES TRAY DIMENSIONS)			#	EQUIPMENT RACK ("#" INDICATES RACK NO. AND FRONT OF RACK)	
	,		MISCELLANEOUS		,	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
<u> </u>	WALL MOUNTED CLOCK		CHIME	(AQ)	AQUASTAT	
Ġ _{DF}	DOUBLE FACE CLOCK	В	BUZZER	T	THERMOSTAT	
s t	COMBINATION CLOCK/SPEAKER UNIT	图	ELECTRIC SOLENOID VALVE		BELL	
ARCM	AREA OF RESCUE COMMUNICATION SYSTEM MASTER UNIT	ARCR	AREA OF RESCUE COMMUNICATION			
	OTOTEKI IVIDTEK UITI		SYSTEM REMOTE UNIT SUBSCRIPTS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
EP	SUBSCRIPT "EP" APPLIED TO ANY SYMBOL INDICATES EXPLOSION PROOF, CLASS, GROUP AND DIVISION AS NOTED	К	SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED	WP	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA 3R OR EQUIVALENT	
E	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING	WG	SUBSCRIPT "WG" ADDED TO ANY SYMBOL INDICATES WIRE GUARD	Р	SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT	
			SUBSCRIPT "AL" ADDED TO ANY SYMBOL		SUBSCRIPT "NL" ADDED TO ANY SYMBOL INDICATI	
PD	SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES PEDESTAL MOUNTED	AL	INDICATES ASSISTIVE LISTENING TRANSMITTER	NL	UNSWITCHED LUMINAIRE OPERATING AS A NIGHT	

TECHNOLOGY GENERAL NOTES

- **COMMUNICATIONS CABLING NOTES:** 1. INSTALL HORIZONTAL CABLES CONTINUOUS FROM WORK AREA OUTLET TO THE TELECOMMUNICATIONS ROOM, INSTALL BACKBONE CABLES CONTINUOUS FROM TELECOMMUNICATIONS ROOM. DO NOT SPLICE TELECOMMUNICATION CABLES.
- 2. CABLE DAMAGED DURING ITS INSTALLATION WILL NOT BE ACCEPTED. CABLE DAMAGED SHALL BE REPLACED WITH NEW CABLE AT THE EXPENSE OF THE TELECOMMUNICATIONS SUBCONTRACTOR. DAMAGE INCLUDES PHYSICAL
- DAMAGE TO CABLE OR IMPROPER INSTALLATION PRACTICES, OR PAINTED/OVERSPRAYED CABLES.

 COORDINATE FINAL LOCATION OF ALL WORK AREA OUTLETS WITH THE ARCHITECTURAL ELEVATIONS AND THE ELECTRICAL DRAWINGS.
- SEE T SERIES DETAIL AND SCHEMATIC/RISER SHEETS FOR CABLING, FACEPLATE, GROUNDING AND PATHWAY RISERS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ROUGH-IN AND PATHWAY REQUIREMENTS.
- COORDINATE WITH THE GENERAL CONTRACTOR AND PAINTING SUBCONTRACTOR SO THAT THE COMMUNICATIONS CABLES ARE NOT DIRECTLY PAINTED OR INDIRECTLY OVERSPRAYED. PAINTED COMMUNICATIONS CABLES WILL BE REPLACED AT THE EXPENSE OF THE TELECOMMUNICATIONS SUBCONTRACTOR.

CONSTRUCTION CABLING NOTES:

- ALL DEBRIS SHALL BE CLEARED AND REMOVED FROM SITE ON A DAILY BASIS. SURFACES AND MATERIALS DAMAGED DURING CONSTRUCTION, WILL BE REPAIRED AND FINISHED TO MATCH ORIGINAL CONDITIONS. PROTECT EQUIPMENT, AND FURNISHINGS WHERE CONSTRUCTION WILL CAUSE DUST, DEBRIS,
- EXERCISE CARE WHEN REMOVING OR REPLACING SUSPENDED CEILING TILES. DAMAGED TILES SHALL BE REPLACED WITH NEW TILES. DAMAGE INCLUDES FINGERPRINTS ON NEW/EXISTING TILES.

 ANY STAGING AREA USED BY THE TELECOMMUNICATIONS SUBCONTRACTOR SHALL BE RETURNED TO ORIGINAL CONDITION TO OWNER'S SATISFACTION. THE TELECOMMUNICATIONS SUBCONTRACTOR SHALL ARRANGE WITH THE GENERAL CONTRACTOR TO OBTAIN WORK TRAILER, MATERIAL STORAGE AND STAGING AND PARKING SPACE IF NEEDED. THE TELECOMMUNICATIONS SUBCONTRACTOR SHALL PROVIDE WORK TRAILER, SECURE STORAGE SPACE, PHONE LINES AND ANY OTHER SERVICE DEEMED NECESSARY. THE OWNER WILL NOT PROVIDE ANCILLARY SERVICES AT THE CONSTRUCTION SITE.
- FIRESTOP ALL FLOOR, TRAY, AND WALL PENETRATIONS. SEE SPECIFICATIONS. BOND ALL CABLE TRAYS UTILIZING CABLE TRAY MANUFACTURER'S RECOMMENDED HARDWARE WITH CONDUIT SLEEVES AND PATHWAYS. SEE SPECIFICATIONS.

			RACK SYMB	OL LEGEND			
1U 24 PORT PATCH PANEL	2U 48 PORT PATCH PANEL	1U 24 PORT ANGLED PATCH PANEL	2U 48PORT ANGLED PATCH PANEL	1U 24 PORT SWITCH	1U 48 PORT SWITCH	1U SERVER	
				<u> </u>			
1U FIBER PANEL	2U FIBER PANEL	4U FIBER PANEL	1U HORIZONTAL WIRE MANAGER	2U HORIZONTAL WIRE MANAGER	4U HORIZONTAL WIRE MANAGER	2U SERVER	
1U BLANK PANEL	2U BLANK PANEL	3U BLANK PANEL	4U BLANK PANEL	1U GROUND BAR	1U POWER STRIP	4 SLOT CHASSIS SWITCH	18 SLOT CHASSIS SWITCH
RACK	CABINET	VERTICAL CABLE MANAGER	WALL MOUNTED RACK	2U UPS	4U UPS		
			12	I I I I I I I I I I I I I I I I I I I	J. J. Bart Balley D. Bart Balley D. Bart Balley Balley	9 SLOT CHASSIS SWITCH	
				RACK MOUNTED BATTERY	2U SHELF	0	
- V			09 08 07 06 05 04				
	j		03 02 01	RACK MOUNT 110	1U HUB		

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

				ABBREVIATIONS				
A AMP AC ALTERNATING CURRENT ACEG AC EQUIPMENT GROUND AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION ALF ALUMINUM FRAME DOOR APPROX APPROXIMATELY ASHRAE AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASTM STANDARD SPECIFICATIONS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY AV ACID VENT, AUDIOVISUAL AVG AVERAGE AVI AUTOMATIC VEHICLE IDENTIFICATION AW ACID WASTE AWG AMERICAN WIRE GAUGE BAS BUILDING AUTOMATION SYSTEM BFP BACKFLOW PREVENTER BICSI BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL BLDG BUILDING BTC BONDING CONDUCTOR FOR TELECOMMUNICATION BTU BRITISH THERMAL UNIT BTUH BRITISH THERMAL UNIT PER HOUR	CMR COMMUNICATIONS RISER CABLE COAX COAXIAL CABLE	DWG DRAWING DX DIRECT EXPANSION EA EXHAUST AIR EAC ELECTRONIC ACCESS CONTROL EC ELECTRICAL CONTRACTOR EHC ELECTRICH HEATING COIL EL ELEVATION ELEC ELECTRICAL EMD ESTIMATED MAXIMUM DEMAND EMI ELECTROMAGNETIC INTERFERENCE EMS ENERGY MANAGEMENT SYSTEM EMT ELECTRICAL METALLIC TUBING EOA ECONOMIZER OUTDOOR AIR EPO EMERGENCY POWER OFF EQUIP EQUIPMENT ER EQUIPMENT ER EQUIPMENT ROOM EXH EXHAUST EXIST EXISTING F FIRE WATER FA FIRE ALARM FAA FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FB FLOOR BOX FCO FLOOR CLEAN OUT FDC FIRE DEPARTMENT CONNECTION FHC FIRE HOSE CABINET FL FLOOR FLA FULL LOAD AMPS FM FACTORY MUTUAL ENGINEERING CORPORATION FMG FACTORY MUTUAL GLOBAL	FO FIBER OPTIC FOV FIELD OF VIEW FP FIBER PANEL FT FEET FURN FURNISHED FW FILTERED WATER GA GAUGE GALV GALVANIZED GC GENERAL CONTRACTOR GEC GROUNDING ELECTRODE CONDUCTOR GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND GPM GALLONS PER MINUTE HGT HEIGHT HH HANDHOLE HMF HOLLOW METAL FRAME DOOR HP HORSEPOWER HTG HEATING HVAC HEATING, VENTILATING AND AIR CONDITIONING HZ HERTZ IC INTERCOM IDC INSULATION DISPLACEMENT CONNECTOR IDF INTERMEDIATE DISTRIBUTION FRAME IDS INTRUSION DETECTION SYSTEM IE INVERT ELEVATION	IP INTERNET PROTOCOL ISP INSIDE PLANT J-BOX JUNCTION BOX KCMIL THOUSAND CIRCULAR MILS KV KILOVOLT KVA KILOVOLT AMPERE KW KILOWATT LAN LOCAL AREA NETWORK LBM LATCH BOLT MONITOR LBS POUNDS LEC LOCAL EXCHANGE CARRIER LTG LIGHTING MA MIXED AIR MATV MASTER ANTENNA TELEVISION (MAX) MAXIMUM MBH 1000 BTU/HOUR MC MAIN CROSS CONNECT MCB MAIN CIRCUIT BREAKER MDF MAIN DISTRIBUTION FRAME MECH MECHANICAL MERV MINIMUM EFFICIENCY REPORTING VALUE (MIN) MINIMUM MISC MISCELLANEOUS MLO MAIN LUGS ONLY MM MULTIMODE MOA MINIMUM OUTDOOR AIR MPOE MAIN POINT OF ENTRANCE MTD MOUNTING	NVE NETWORK VIDEO ENCODER NVR NETWORK VIDEO RECORDER OA OUTDOOR AIR OC ON CENTER OPE OWNER PROVIDED ELECTRONICS	PNL PANEL POE POWER OVER ETHERNET POP POINT OF PRESENCE PP PATCH PANEL PS PLASTER SINK PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSTN PUBLIC SWITCH TELEPHONE NETWORK PTZ PAN-TILT-ZOOM PVC POLYVINYL CHLORIDE PWR POWER RA RETURN AIR REQD REQUIRED RGS RIGID GALVANIZED STEEL RH RELATIVE HUMIDITY RLFA RELIEF AIR RM ROOM RO REVERSE OSMOSIS WATER RPBFP REDUCED PRESSURE BACKFLOW PREVENTER RQE REQUEST TO EXIT SA SUPPLY AIR SAN SANITARY SCH SCHEDULE SCTP SCREENED TWISTED PAIR SCW SOFT COLD WATER SHW SOFT HOT WATER (SIM) SIMILAR SLAB SEALED LEAD ACID BATTERY SM SPRINKLER MAIN, SINGLE MODE	SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION SPD SURGE PROTECTIVE DEVICE SPECS SPECIFICATIONS SS STAINLESS STEEL SSI SECURITY SYSTEMS INTEGRATOR SSS SURGEON SCRUB SINK STD STANDARD STP SHIELDED TWISTED PAIR SW SWITCH SWBD SWITCHBOARD SWGR SWITCHGEAR T TRANSFORMER T-1 TRUNK LEVEL 1 TBB TELECOMMUNICATIONS BONDING BACKBONE TBBIBC TELECOMMUNICATIONS BONDING BACKBONE INTERCONNECTING BONDING CONDUCTOR TC TELECOMMUNICATIONS CLOSET TEL TELEPHONE TELECOM TELECOMMUNICATIONS TEMP TEMPERATURE TGB TELECOMMUNICATIONS GROUNDING BUSBAR TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TR TELECOMMUNICATIONS ROOM TTB TELEPHONE TERMINAL BOARD	TV TELEVISION TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION (TYP) TYPICAL UG UNDERGROUND UL UNDERWRITERS LABORATORY UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUP UTP UNSHIELDED TWISTED PAIR V VOLT VERT VERTICAL VFC VARIABLE FREQUENCY CONTRO VOIP VOICE OVER INTERNET PROTOC VTR VENT THROUGH ROOF W WATT WAN WIDE AREA NETWORK WAP WIRELESS ACCESS POINT WG WATER GUAGE WMP WIRE MANAGEMENT PANEL WP WEATHERPROOF WSA WIRE SIZING AMPS WTH WIRE TRANSFER HINGE XFMR TRANSFORMER



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THE MCKINNEY PARTNERSHIP

3600 West Main
Suite 200
Norman, Oklahoma
73072
405.360.1400 p
405.364.8287 f
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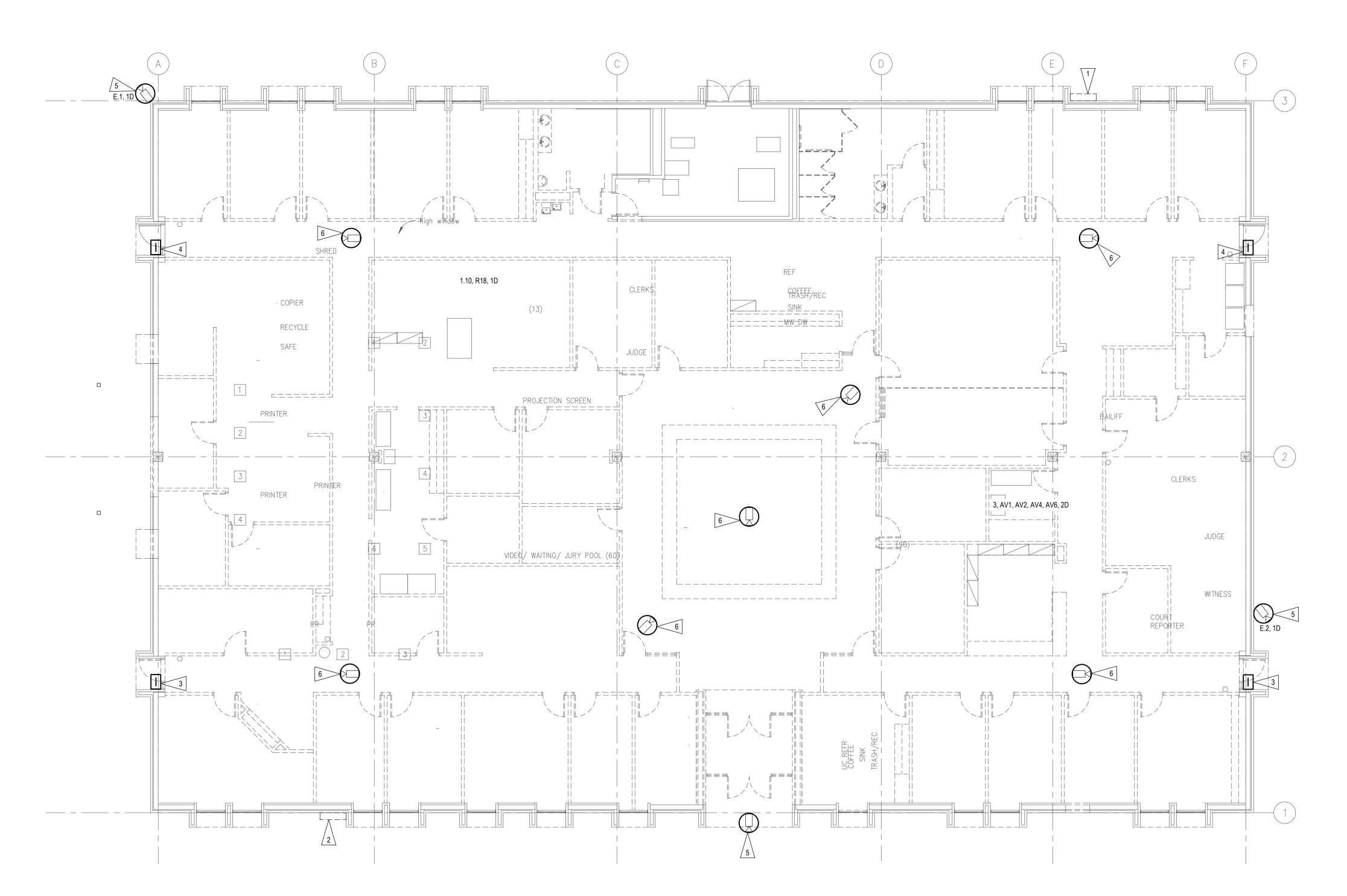
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Sheet Number:

ABBREVIATIONS



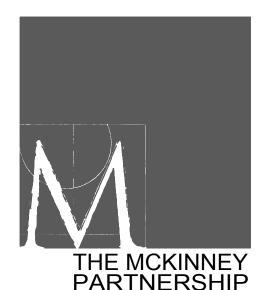


GENERAL NOTES

- 1. REFER TO SHEET TO.0 FOR TELECOM GENERAL CONSTRUCTION NOTES.
- 2. REFER TO SHEET SERIES T5 FOR TELECOM SCHEDULES.
- 3. REFER TO SHEET SERIES T3 FOR AUDIOVISUAL SCHEMATICS AND TELECOM
- 4. REFER TO SHEET SERIES T4 FOR TELECOM DETAILS.

FLAG NOTES

- 1 EXISTING 3" CONDUIT FOR OM1/2 AND OM3 FIBER RING CONNECTED TO BUILDING B. PROTECT ALL DURING CONSTRUCTION.
- 2 EXISTING 3" CONDUIT FOR OM1/2 AND OM3 FIBER RING CONNECTED TO BUILDING C. COAX ENTRANCE LOCATED AT THIS LOCATION. PROTECT ALL DURING CONSTRUCTION.
- 3 EXISTING HID CARD READER AND DOOR CONTROLLER TO BE PROTECTED DURING CONSTRUCTION. THE CARD READER WILL BE RELOCATED TO A NEW DOOR AND THE DOOR CONTROLLER TO BE RELOCATED TO NEW IT ROOM. REFER TO ACCESS CONTROL SCHEDULE ON SHEET T5.1 FOR MORE DETAIL.
- 4 EXISTING HID CARD READER AND DOOR CONTROLLER TO BE PROTECTED DURING CONSTRUCTION. DOOR CONTROLLER TO BE RELOCATED TO NEW IT ROOM. REFER TO ACCESS CONTROL SCHEDULE ON SHEET T5.1 FOR MORE DETAIL.
- 5 EXISTING CAMERA TO REMAIN. EXISTING DATA CABLING TO BE DEMOLISHED. REFER TO NEW FLOOR PLAN FOR DATA CABLING REPLACEMENT.
- 6 EXISTING CAMERA TO BE PROTECTED DURING CONSTRUCTION AND RELOCATED. EXISTING DATA CABLING TO BE DEMOLISHED. REFER TO NEW FLOOR PLAN FOR DATA CABLING REPLACEMENT.



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Suite 200 Norman, Oklahoma 73072 405.360.1400 p 405.364.8287 f tmparch.com

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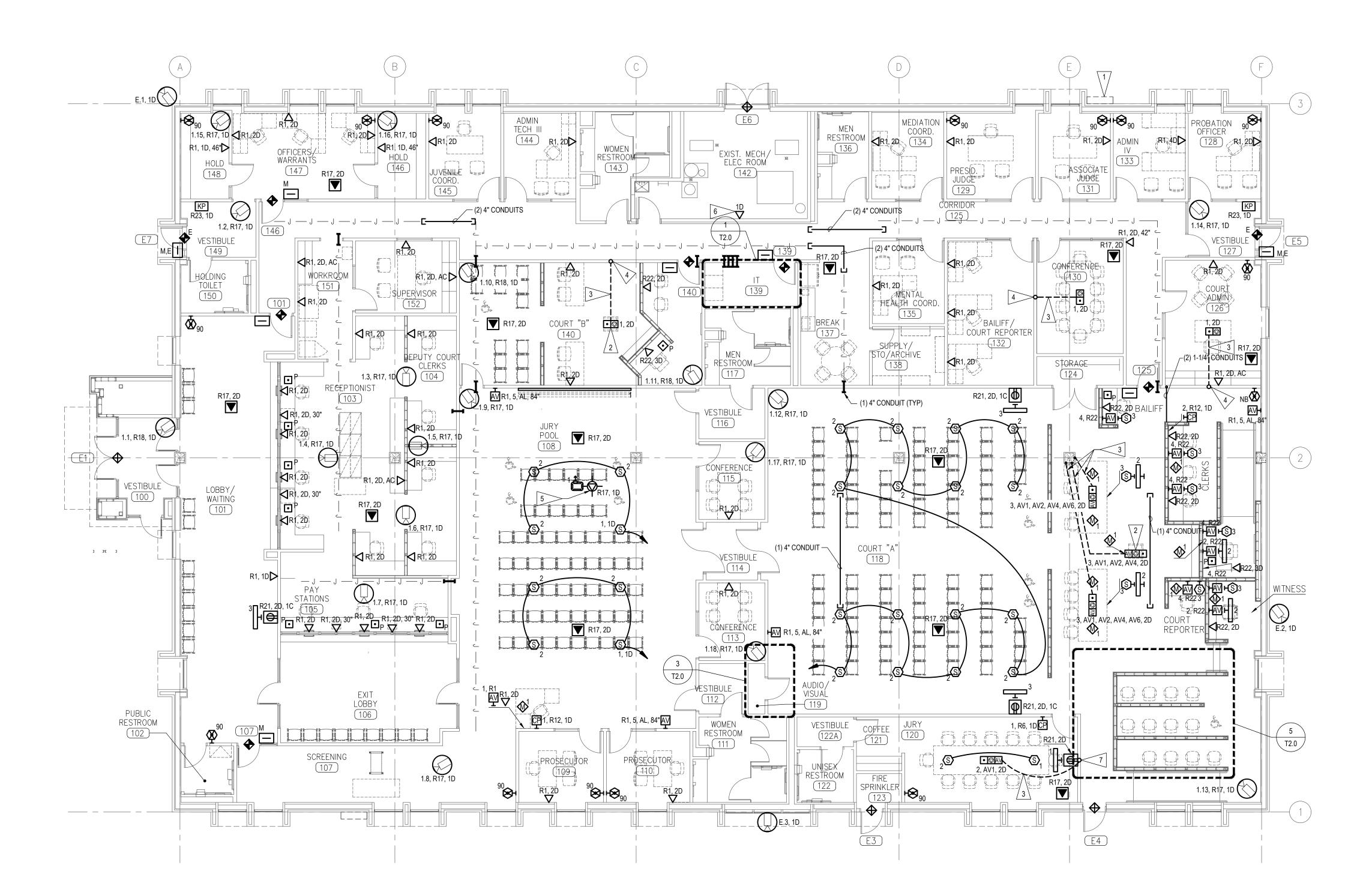
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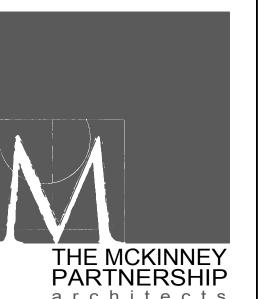


GENERAL NOTES

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- 2. REFER TO SHEET SERIES T5 FOR TELECOM SCHEDULES.
- 3. REFER TO SHEET SERIES T3 FOR AUDIOVISUAL SCHEMATICS AND TELECOM
- 4. REFER TO SHEET SERIES T4 FOR TELECOM DETAILS.

FLAG NOTES

- 1 EXISTING 3" CONDUIT FOR OM1/2 AND OM3 FIBER RING CONNECTED TO BUILDING B. PROTECT ALL DURING CONSTRUCTION.
- PROVIDE TABLETOP BOX ALTINEX TNP125 WITH GROMMETED OPENING IN
- REFER TO FLOOR BOX AND POKE THRU SCHEDULE FOR CONDUIT SIZES AND QUANTITIES.
- 4 STUB CONDUITS TO ABOVE ACCESSIBLE CEILING.
- 5 DATA CABLING FOR PROJECTOR.
- TELECOMMUNICATIONS OUTLET FOR FACP. COORDINATE EXACT TERMINATION LOCATION AND INSTALLATION WITH FACP INSTALLER.
- 7 ROUTE CONDUIT TO DISPLAY BACK BOX. SEE DETAIL 2/T4.0.



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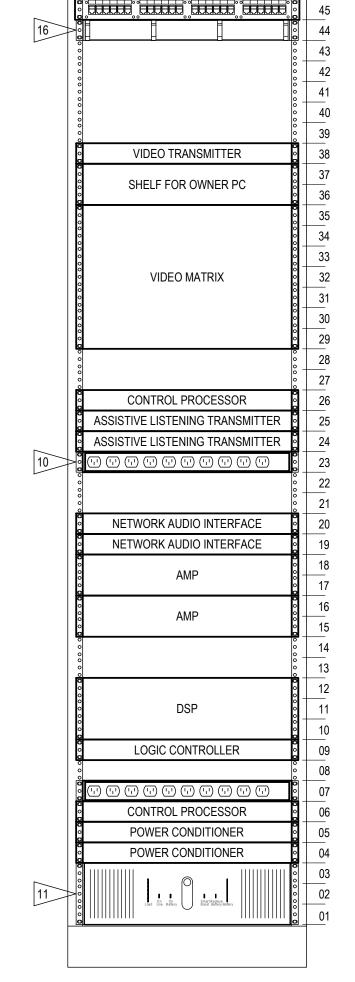
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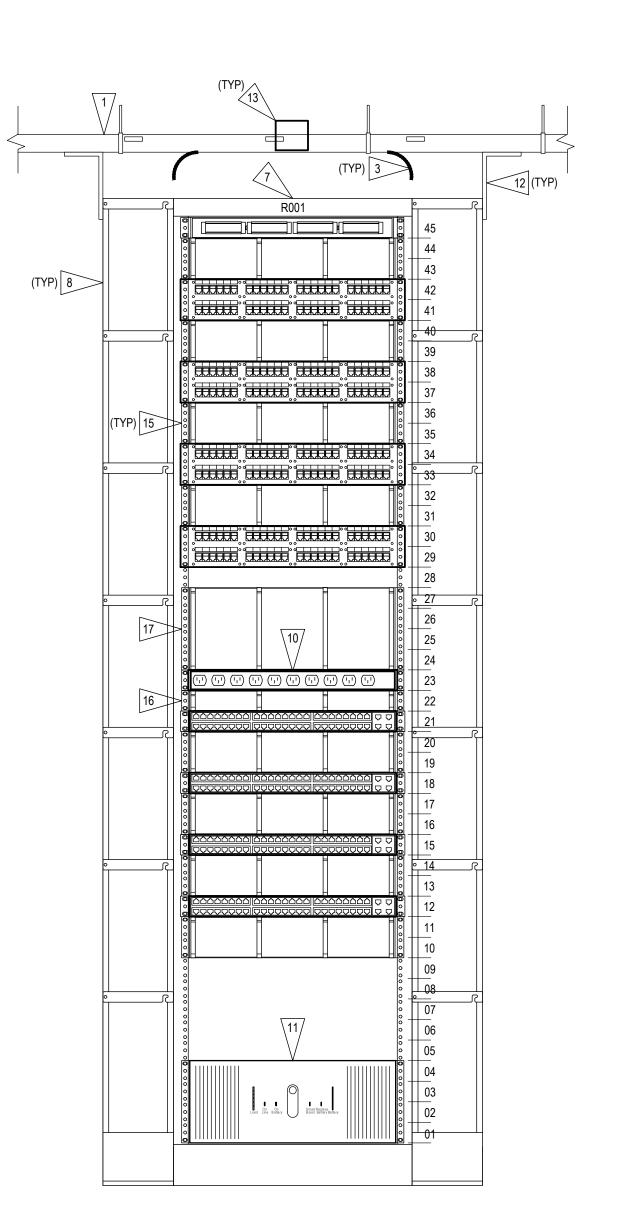
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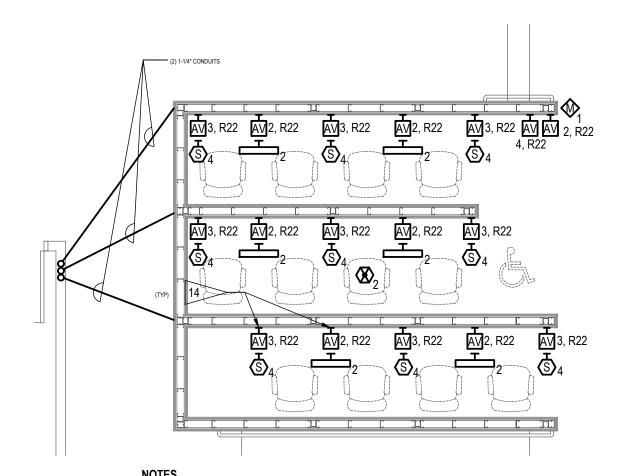
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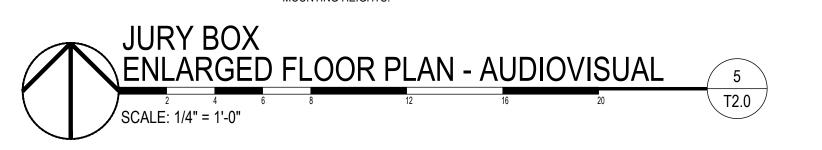


IT 139 RACK ELEVATION - TELECOM



T2.0

REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS.



GENERAL NOTES

- 1. SEE FLOOR PLANS FOR CONTINUATION OF CONDUITS AND CABLETRAY.
- 2. SEE FLOOR PLANS, GROUNDING SCHEMATICS, AND DETAILS FOR TELECOMMUNICATIONS GROUNDING.

FLAG NOTES

- PROVIDE 12" WIDE LADDER RUNWAY. MOUNT AT 8'-0" AFF. USE MANUFACTURER'S WALL BRACKETS TO SUPPORT RUNWAY ON WALL. WHERE RUNWAY IS LOCATED DIRECTLY OVER EQUIPMENT RACKS, ANCHOR TRAY TO RACK. PROVIDE 6" RETAINING POSTS AT 18" ON CENTER ON BOTH SIDES OF THE LADDER RUNWAY. PROVIDE CORNER FITTINGS AND ALL ACCESSORIES FOR A COMPLETE SYSTEM. SEE DETAILS 5/T4.1 AND 10/T4.1.
- PRIMARY BONDING BUSBAR (PBB) BY ELECTRICAL. BOND METALLIC PATHWAYS AND EQUIPMENT IN THIS ROOM TO THE BONDING BUSBAR. SEE ELECTRICAL PLANS.
- PROVIDE CABLE DROPOUTS (2 PER RACK) LOCATED AS INDICATED FOR VERTICAL CABLE SUPPORT. ANCHOR CABLE DROPOUTS TO TRAY. ANCHOR EQUIPMENT RACKS TO TRAY. SEE DETAIL 2/T4.1.
- 4 ELECTRICAL PANELBOARD. COORDINATE WITH ELECTRICAL CONTRACTOR TO MAINTAIN CODE REQUIRED 3'-0" CLEAR SPACE IN FRONT OF PANELBOARD. OFFSET TRAY FROM WALL MINIMUM OF 6" TO AVOID ELECTRICAL PANEL. SEE ELECTRICAL PLANS.
- 5 LIGHTING FIXTURE INDICATED FOR REFERENCE ONLY. SEE ELECTRICAL PLANS.
- PLYWOOD FROM 8" AFF TO 8'-8" AFF. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND SPECIFICATIONS. PAINT PLYWOOD WITH (2) COATS OF FIRE-RETARDANT WHITE PAINT. COORDINATE PAINTING OF WALLS AROUND PLYWOOD AND CEILING BEFORE INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT.
- 7 2-POST EQUIPMENT RACK.
- 8" VERTICAL WIRE MANAGER.
- 9 PATHWAY SLEEVES. SEE PATHWAY FLOOR PLANS.
- 10 OWNER-FURNISHED, OWNER-INSTALLED HORIZONTAL PDU.
- OWNER-FURNISHED, OWNER-INSTALLED UPS WITH NETWORK CARD.
- 12 SECURE EQUIPMENT RACK/CABINET TO LADDER RUNWAY ABOVE USING MANUFACTURER'S SPECIFIC FITTING.
- 13 ELECTRICAL RECEPTACLE INDICATED FOR REFERENCE ONLY. SEE ELECTRICAL PLANS.
- INSTALL AUDIOVISUAL OUTLET IN RECESSED PORTION OF WALL AT BOTTOM FACE OF RECESS. REFER TO ARCHITECTURAL ELEVATIONS.
- 15 2U HORIZONTAL WIRE MANAGER.
- 10 HORIZONTAL WIRE MANAGER.
- 17 4U HORIZONTAL WIRE MANAGER.

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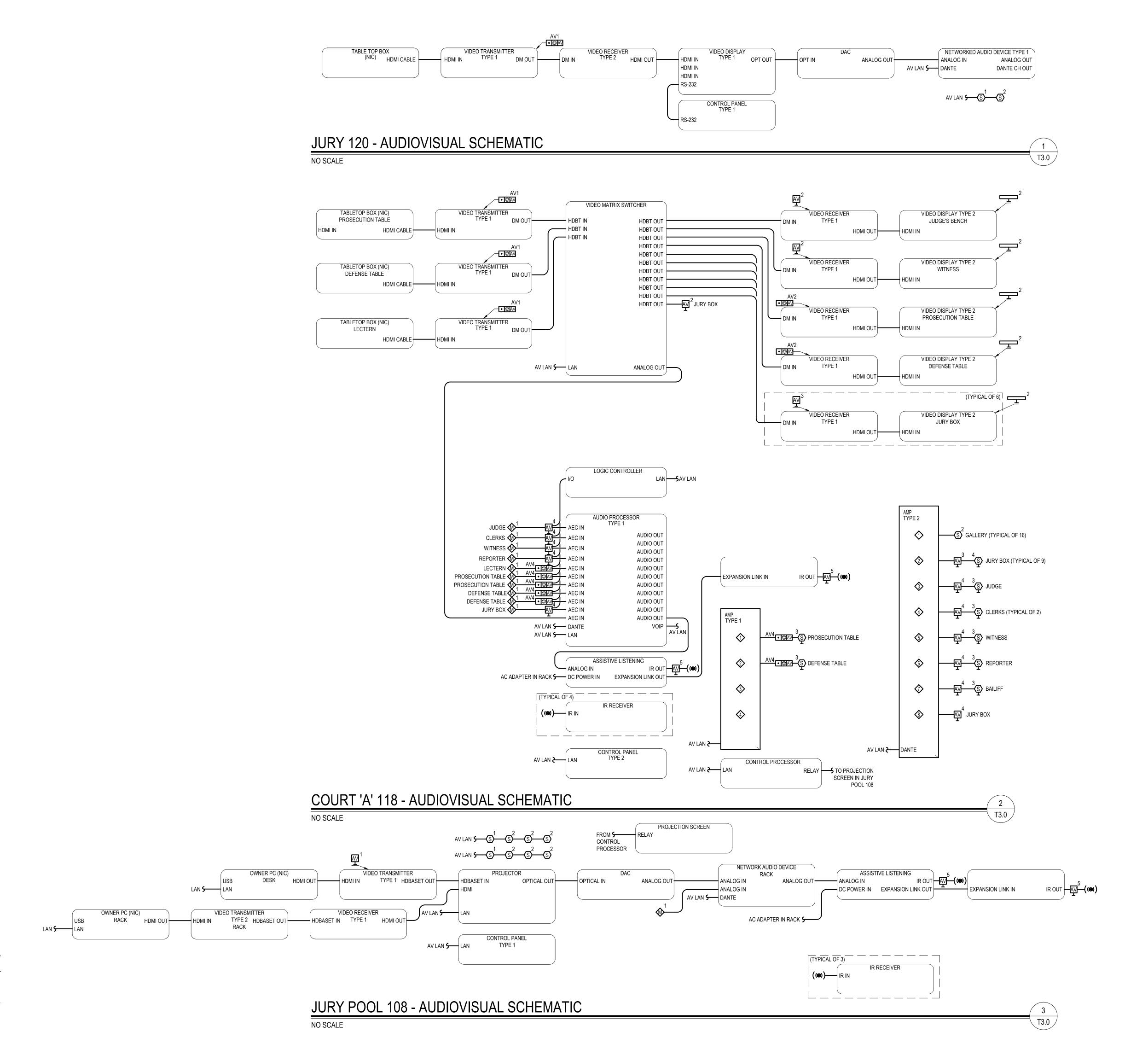
ENLARGED FLOOR PLANS - TELECOM

Sheet Number:

T2.0

AUDIO/VISUAL 119
ENLARGED FLOOR PLAN - AUDIOVISUAL

SCALE: 1/2" = 1'-0"





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coordinate all work prior to installation to provide clearances

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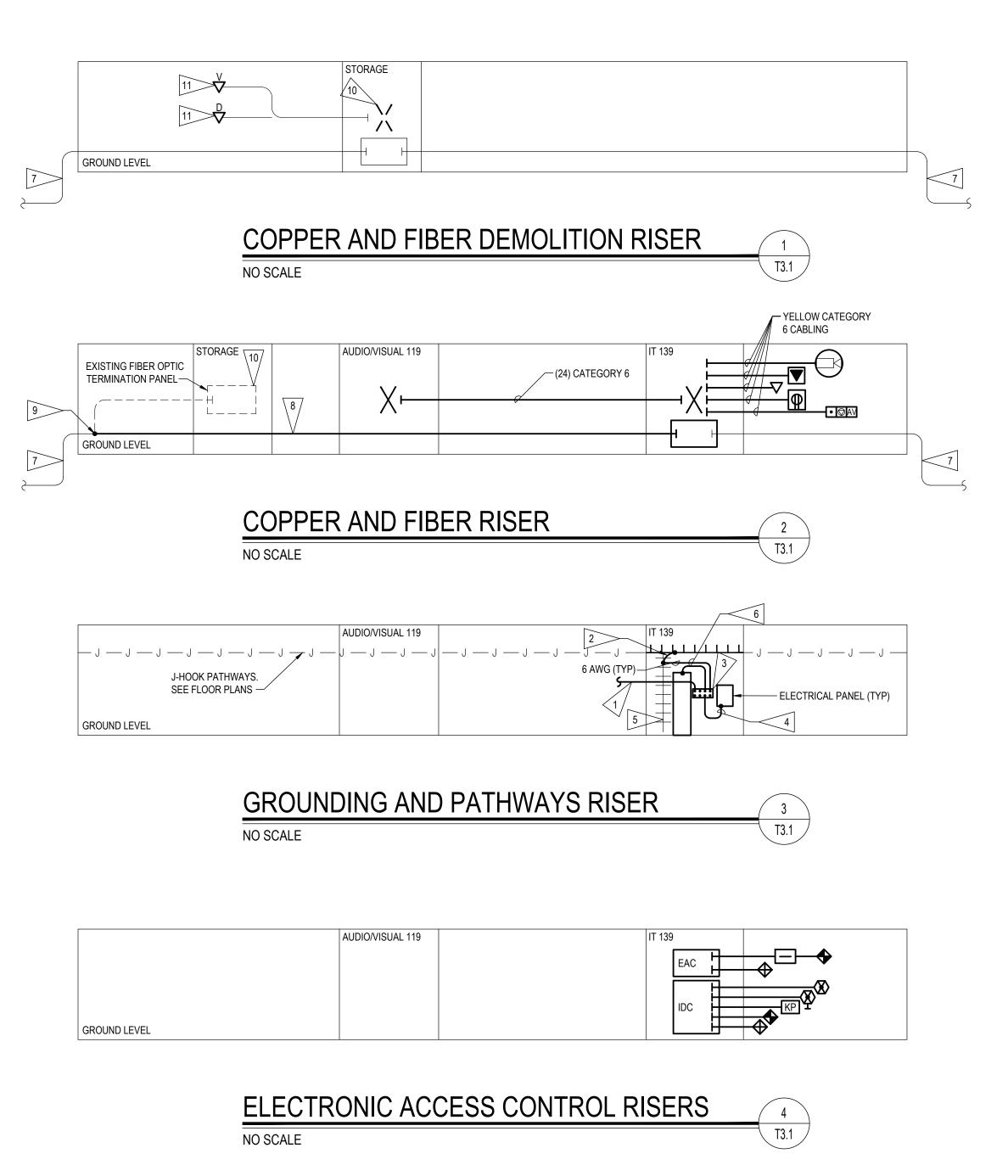
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GENERAL NOTES

- PROVIDE CABLE DROPOUTS ABOVE EACH PIECE OF VERTICAL CABLE MANAGEMENT, AT ALL CABLE TRAY ELEVATION CHANGES AND AT ALL TRANSITIONS FROM HORIZONTAL TO VERTICAL CABLE TRAY. SEE DETAIL 2/T4.1.
- 2. FIRMLY SUPPORT ALL CABLE TRAY WITHIN 12-INCHES OF EACH END AND SUPPORT AT INTERVALS OF 4-1/2 FEET MAXIMUM.
- 3. FIRMLY SUPPORT RACEWAY PROVISIONS WITHIN 3 FEET OF EACH END AND SUPPORT AT INTERVALS OF 10 FEET MAXIMUM.
- 4. INSTALL FIRESTOP AFTER CABLING INSTALLATION IS COMPLETE.
- 5. INSTALL CABLING IN CONDUITS/SLEEVES AFTER PLASTIC OR BOND BUSHINGS HAVE BEEN INSTALLED.
- 6. FIELD VERIFY ALL CONDITIONS.
- 7. PATHWAYS HAVE BEEN DESIGNED TO FACILITATE A HORIZONTAL CABLE LENGTH THAT COMPLIES WITH THE PERMANENT LINK REQUIREMENTS OF TIA 568B. PRIOR TO THE INSTALLATION OF CABLING, INFORM ENGINEER OF ANY JACKS BEYOND TIA DISTANCE LIMITS. OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR OUT-OF-DISTANCE OUTLETS THAT ARE NOT TESTED PRIOR TO INSTALLATION.
- 8. DO NOT REMOVE ANY EXISTING CABLING UNTIL SERVICES ARE SUCCESSFULLY CUT OVER TO THE NEW CABLE SYSTEM. COORDINATE CABLE AND EQUIPMENT REMOVAL WITH THE OWNER.
- 9. EQUIPMENT TO REMAIN IS INDICATED LIGHT OR 1/2 TONED.
- 10. NEW EQUIPMENT IS INDICATED BOLD OR DARK.
- 11. REMOVE EQUIPMENT INDICATED WITH A DASHED LINE.

FLAG NOTES

- TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) SEE ELECTRICAL PLANS.
- 2 BOND CABLE MANAGEMENT TRAY AND LADDER RUNWAY.
- TELECOMMUNICATIONS MAIN GROUND BAR (TMGB). SEE ELECTRICAL PLANS. PROVIDE PERMANENT LABEL READING: TMGB.
- 4 PANELBOARD BONDING JUMPER (ACEG) BY THE ELECTRICAL CONTRACTOR
- 5 VERTICAL CABLE MANAGEMENT TRAY MOUNTED TO WALL. SEE DETAIL 8/T4.1.
- GROUND TELECOM RACK(S) AND CABINETS(S).
- 7 EXISTING FIBER OPTIC CABLING SHALL BE RE-ROUTED TO NEW TELECOM ROOM.
- 8 EXTEND ENTRANCE CABLE TO NEW IT 139. SECURE SPLICE CASE TO WALL. LEAVE ENOUGH PLYWOOD AND SUPPORTS FOR COPPER AND FIBER OPTIC SPLICE CASES. COORDINATE HALF-TAPPING/SPLICING WITH OWNER. DO NOT DISRUPT SERVICE WITHOUT COORDINATING WITH OWNER. DO NOT HALF-TAP DIGITAL PHONE CABLE PAIRS.
- 9 PROVIDE NEW FUSION SPLICE FROM EXISTING FIBER OPTIC CABLING TO EXTEND TO IT 139. TERMINATE FIBER OPTIC CABLING IN IT 139.
- 10 REMOVE INACTIVE CABLE, TERMINATIONS, HARDWARE AND ASSOCIATED APPURTENANCES AND RETURN TO OWNER.
- REMOVE EXISTING DATA/PHONE CABLE, JACKS, PLATES AND ASSOCIATED TERMINATIONS. SEE FLOOR PLANS FOR QUANTITY.

THE MCKINNEY PARTNERSHIP architects

3600 West Main Suite 200 Norman, Oklahoma 73072 405.360.1400 p

405.364.8287 f tmparch.com

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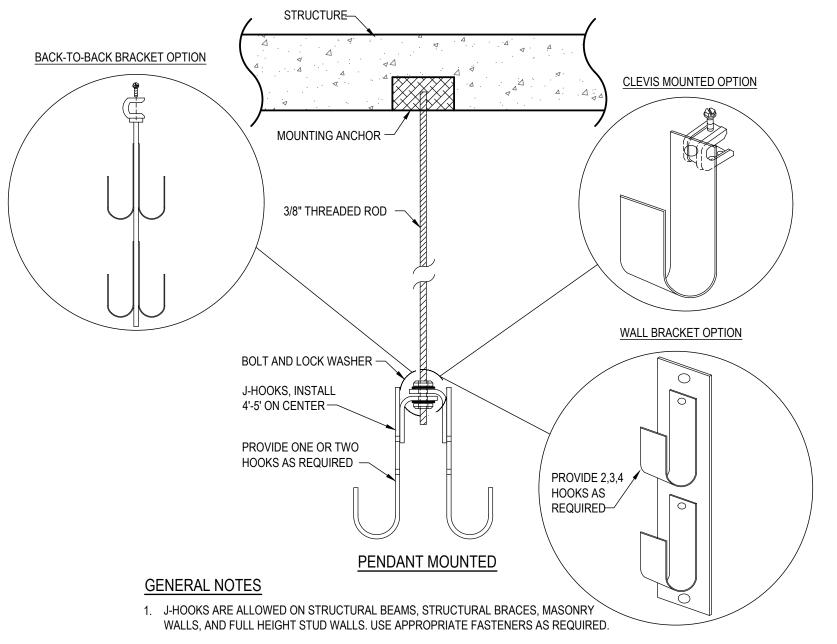
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- 2. J-HOOKS SHALL NOT BE ON CEILING SUPPORTED HARDWARE, DUCT HANGERS, ETC.
- J-HOOK CAPACITY: 2": CATEGORY 6 = 35, CATEGORY 6A = 20
- 4": CATEGORY 6 = 85, CATEGORY 6A = 45
- 4. UTILIZE 650 lbs. (MIN) ANCHORS ON THREADED ROD. MAXIMUM LOAD ON ASSEMBLY NOT TO
- 5. THREADED ROD MOUNTING IS SHOWN FOR FREE-STANDING CONDITIONS.
- 6. SECURE CABLE TO J-HOOK UTILIZING ACCESSORY OR VELCRO STRAPS.
- 7. J-HOOKS SHALL BE INSTALLED IN THE ABOVE VERTICAL ORIENTATION. DO NOT INSTALL

IN A HORIZONTAL ORIENTATION.

'J' HOOK SUPPORTS

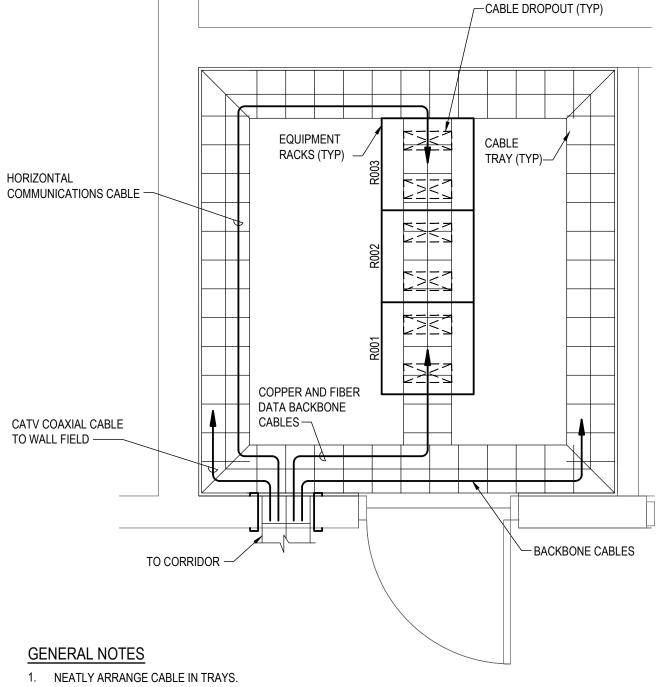
TC_116_JHookSupports 07/22/20 \ T4.0 NO SCALE

STUB CONDUITS ABOVE ACCESSIBLE CEILING WITHIN ROOM OR ADJACENT CORRIDOR ACCESSIBLE CEILING -PULL STRING (TYP) -LABEL EACH END OF PULL STRING (TYP) -BUSHING (TYP) -∠ WALL MOUNT DISPLAY BACK-BOX (AV#), REFER TO AV ROUGH-IN SCHEDULE FOR ADDITIONAL INFORMATION DATA CONDUIT – ✓ AV CONDUIT

- 1. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION ON FLOOR BOX REQUIREMENTS.
- 2. REFER TO FLOOR BOX SCHEDULES FOR CONDUIT SIZE REQUIREMENTS. 3. TRENCH EXISTING FLOORING AND PATCH AS REQUIRED. SEE ARCHITECTURAL SHEETS.

FLOOR BOX TO CEILING ROUGH-IN WITH DISPLAY ROUGH-IN

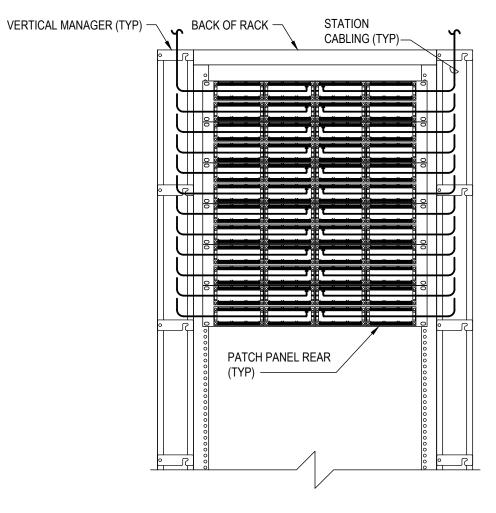
TC_122_FloorboxToCeilingRough-In 05/03/17 T4.0 NO SCALE



- 2. PROVIDE SLACK LOOPS AS INDICATED IN SPECIFICATIONS.

TYPICAL TELECOMMUNICATIONS ROOM CABLE ROUTING

NO SCALE



GENERAL NOTES

- 1. ROUTE CABLES IN A NEAT AND ORDERLY FASHION. DRESS WITH A MINIMUM OF (1) VELCRO CABLE TIES PER 6 PORTS.
- 2. UTILIZE BOTH SIDES OF THE RACK FOR CABLE ROUTING.
- 3. BUNDLE CABLES VERTICALLY AT A MINIMUM EVERY 12".

TELECOMMUNICATIONS RACK PATCH PANEL CABLE ROUTING

4. LASH CABLES TO THE VERTICAL MANAGEMENT.

NO SCALE

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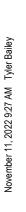
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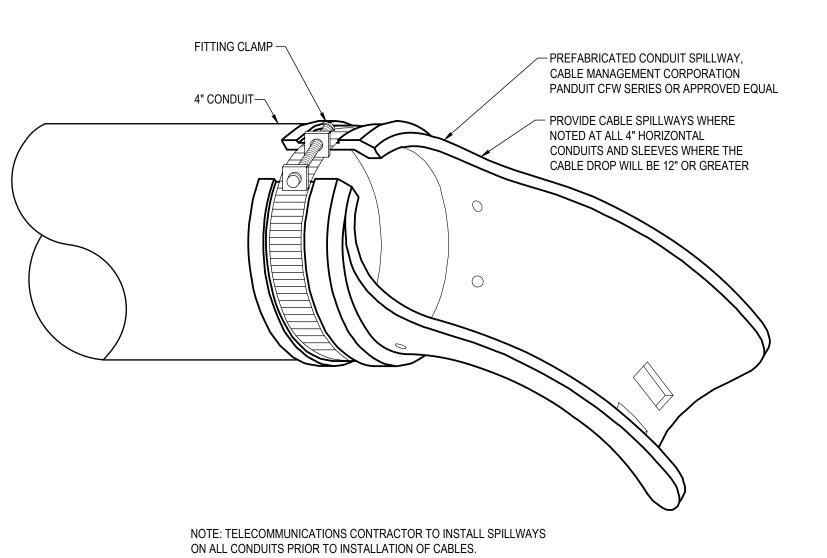
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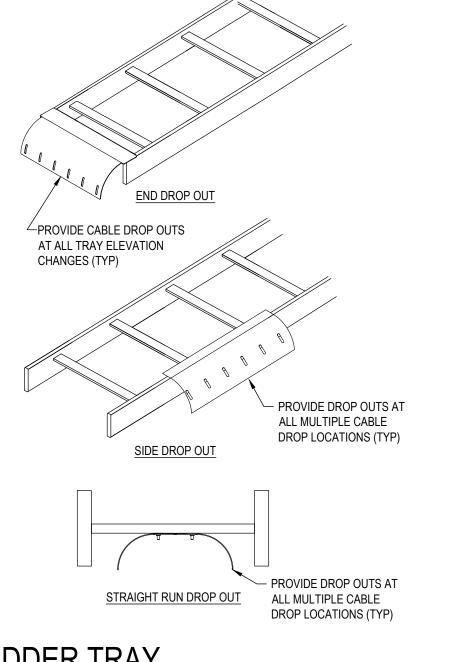
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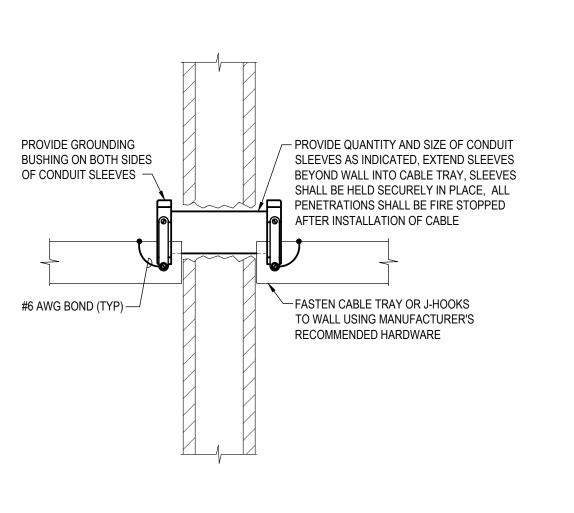
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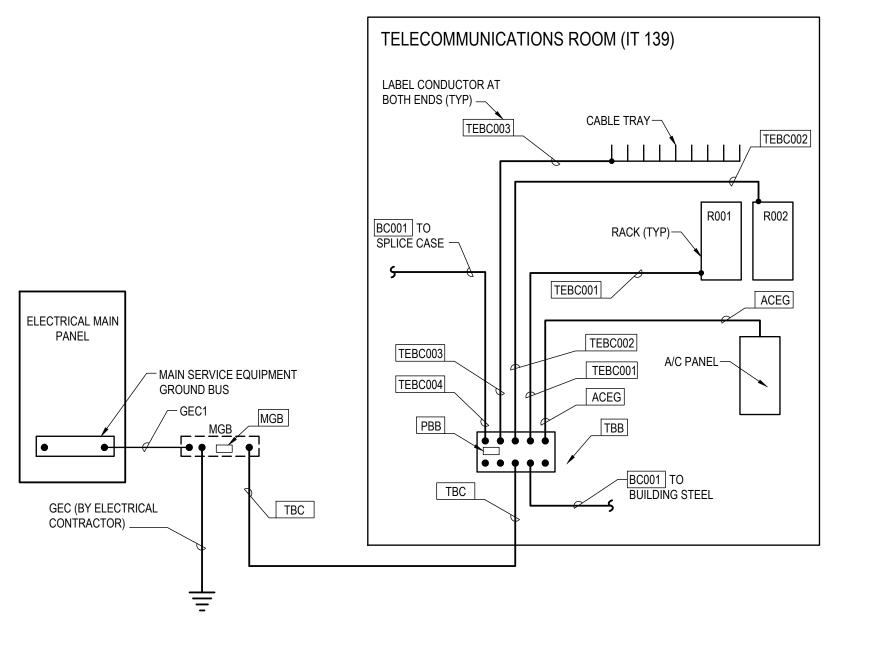
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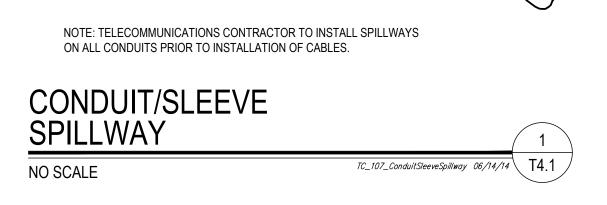








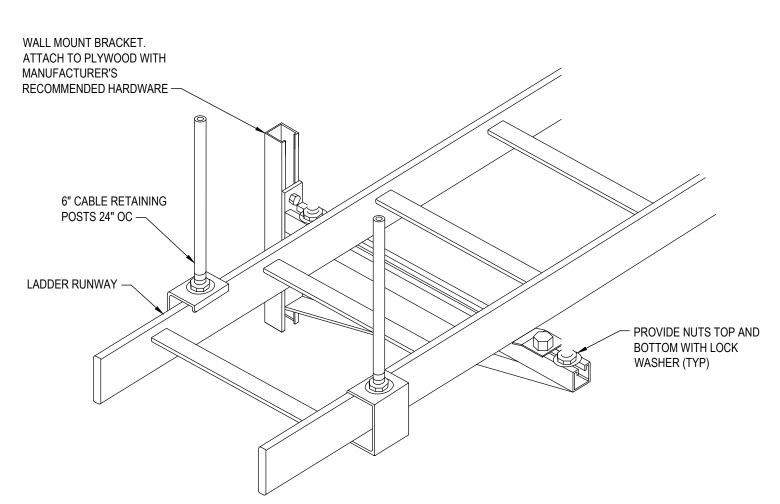




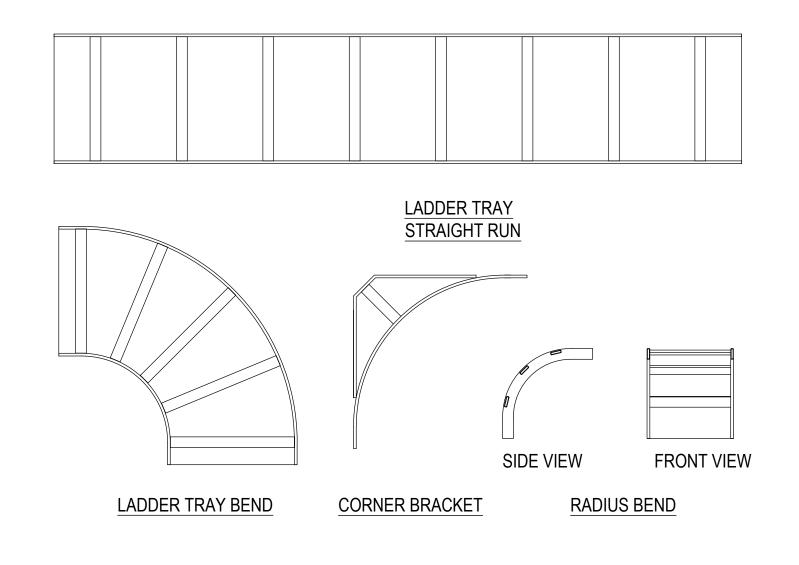




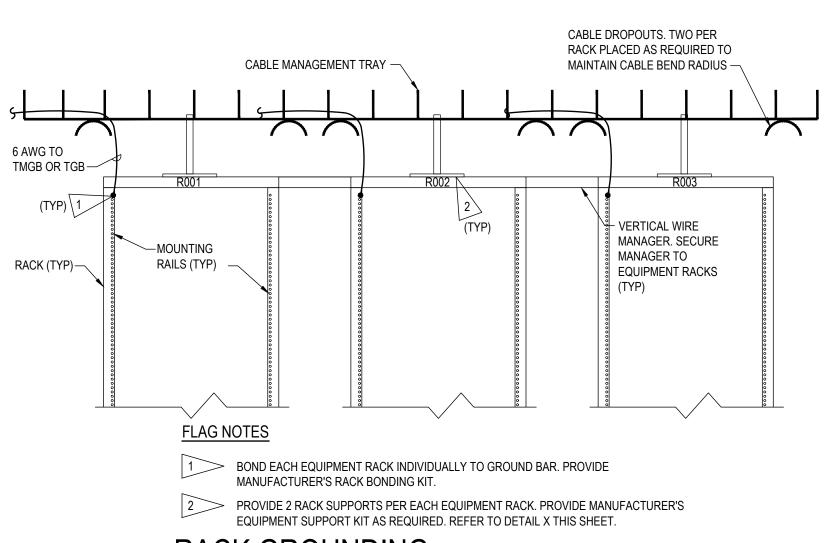




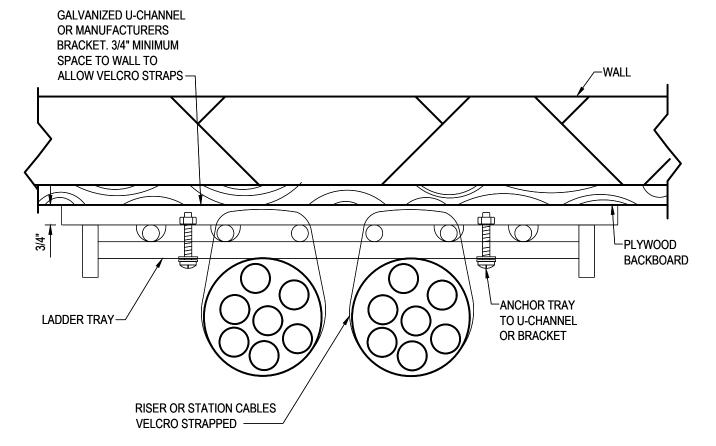




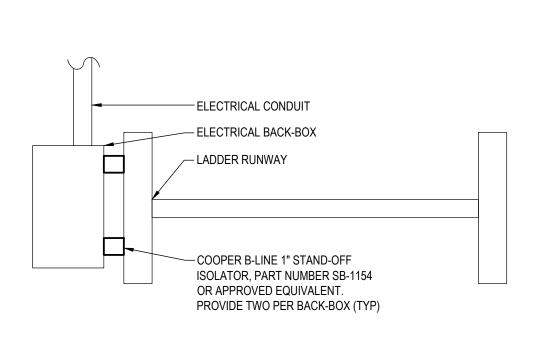




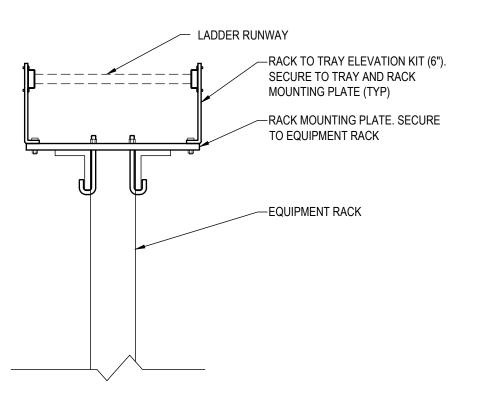




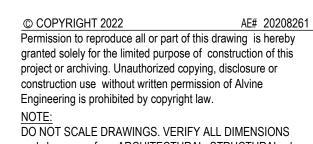










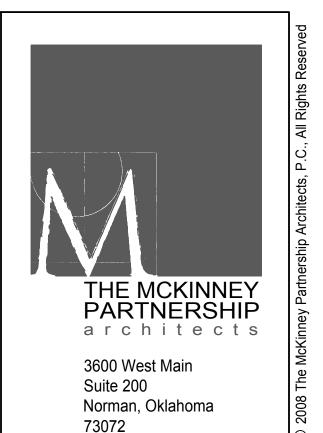


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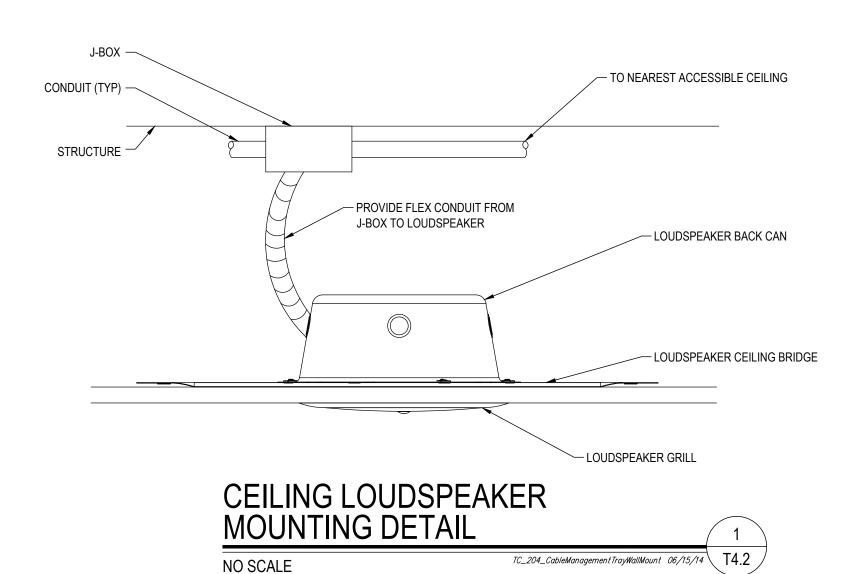
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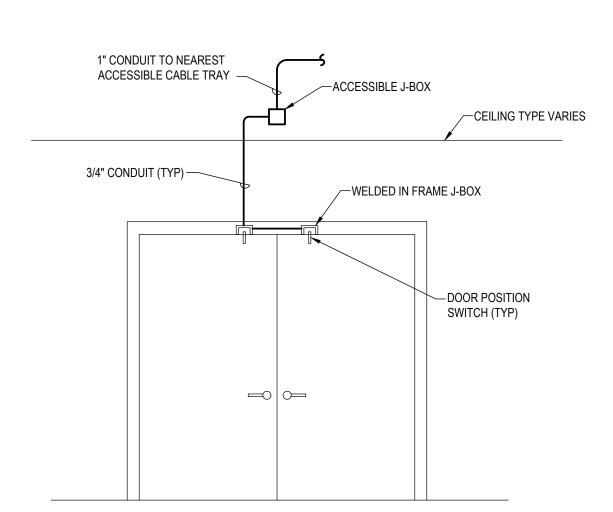
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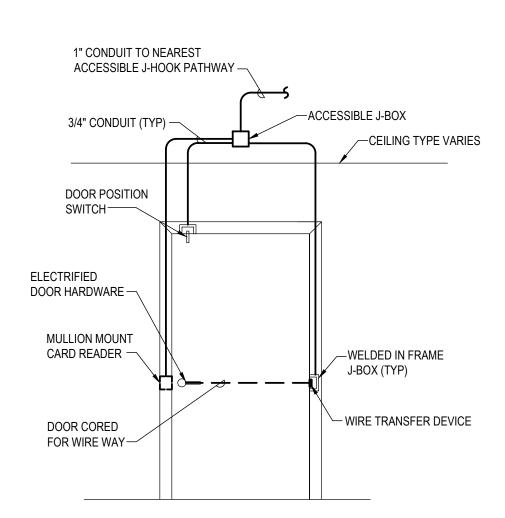
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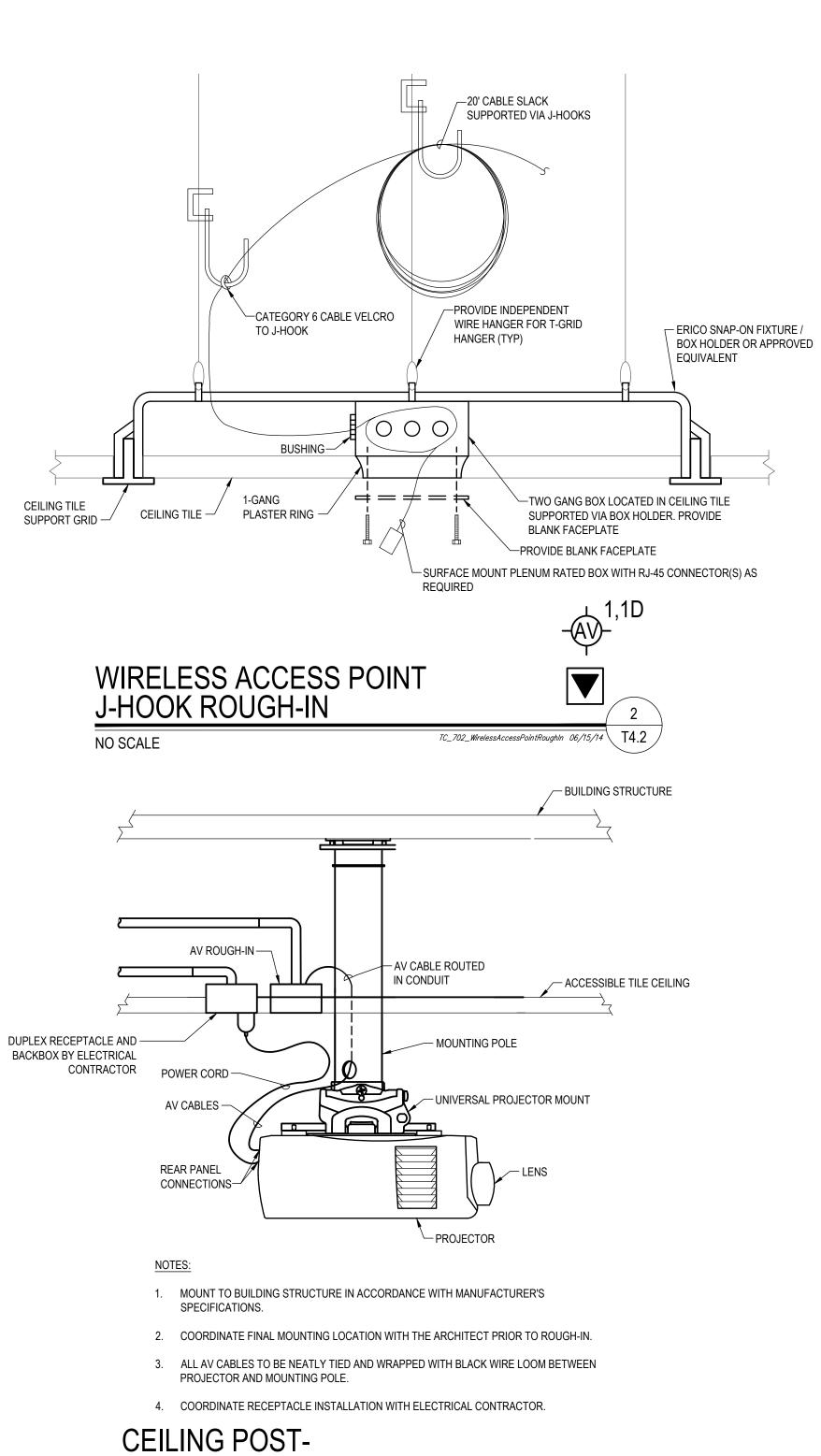






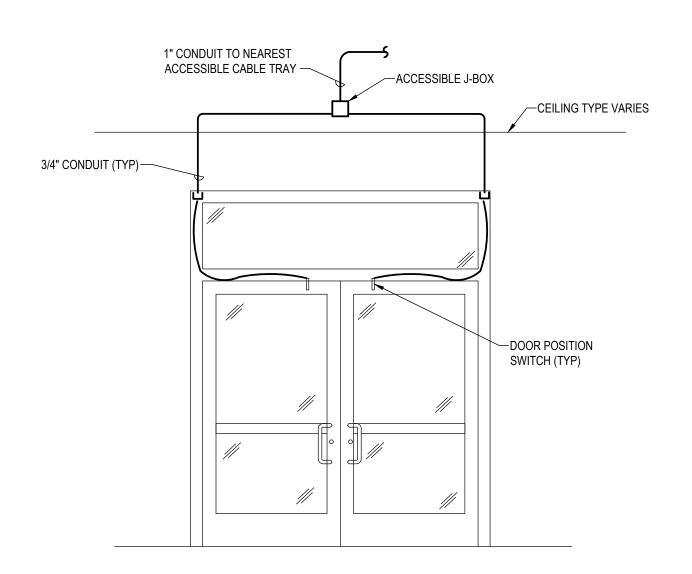




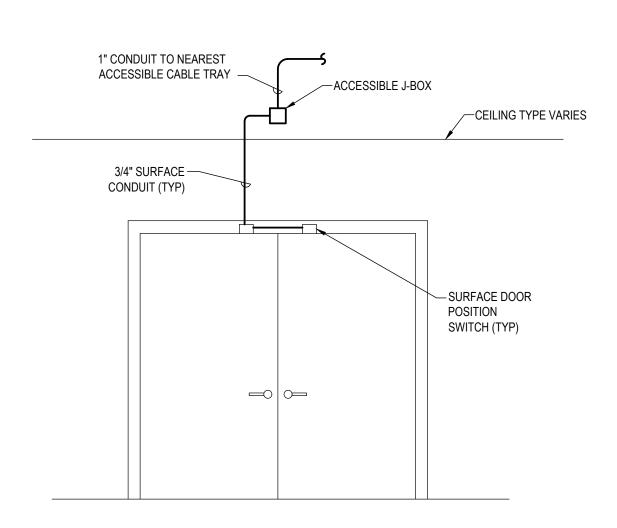


CEILING POST-MOUNTED PROJECTOR

NO SCALE







DOOR ELEVATION NO SCALE

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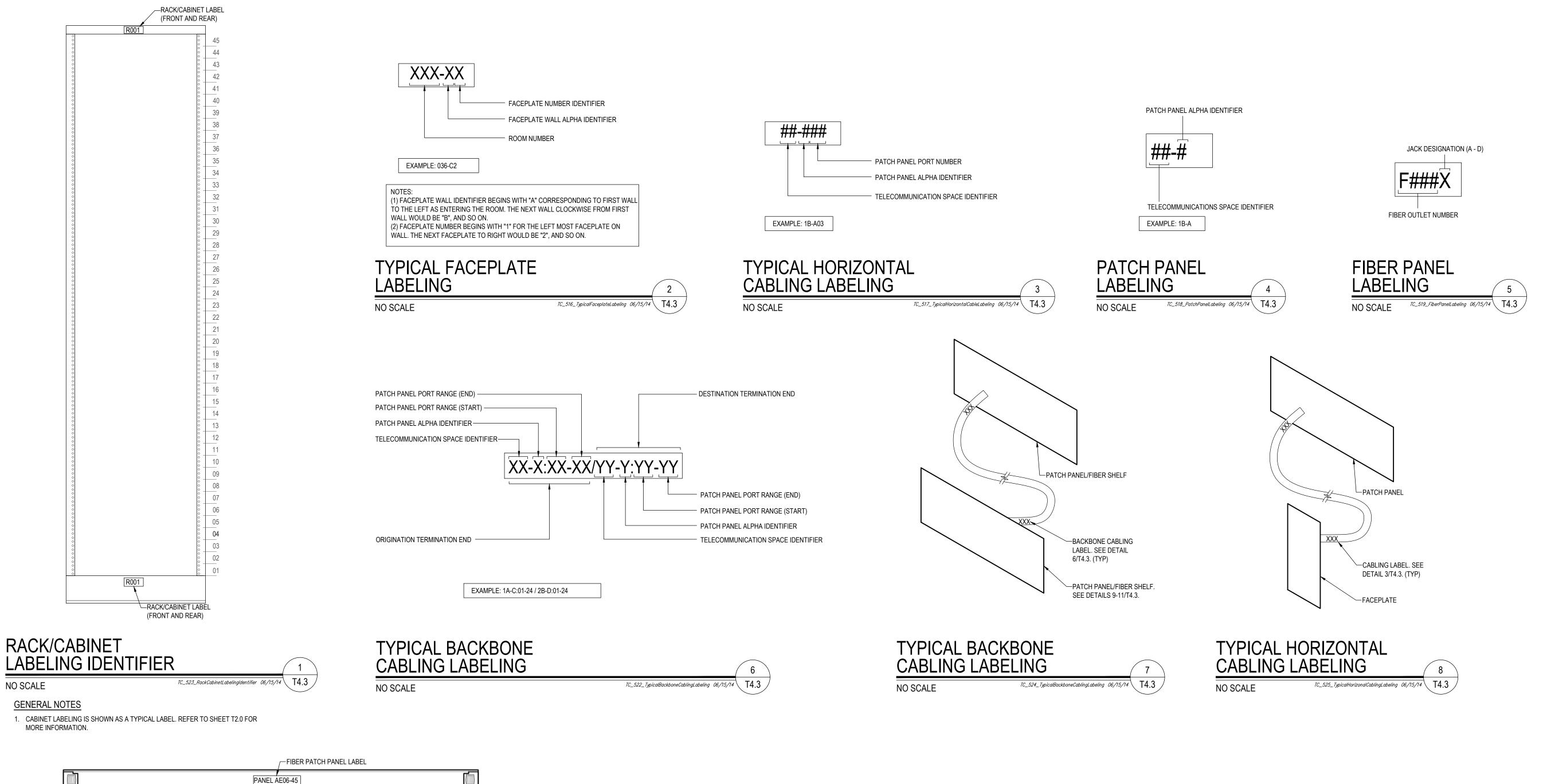
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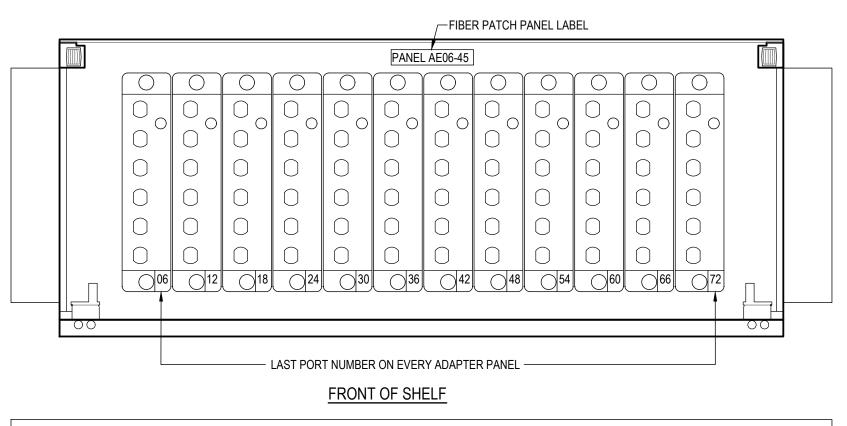
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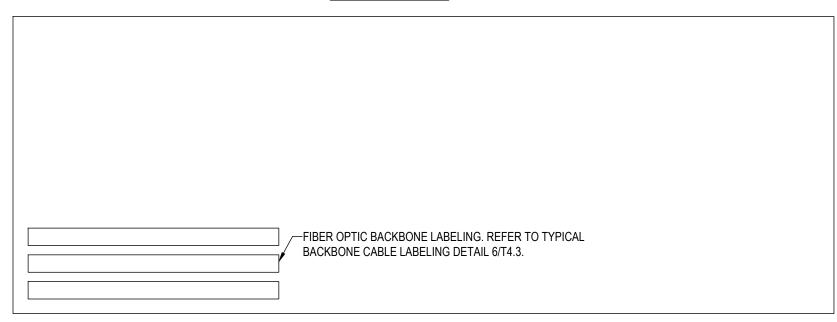
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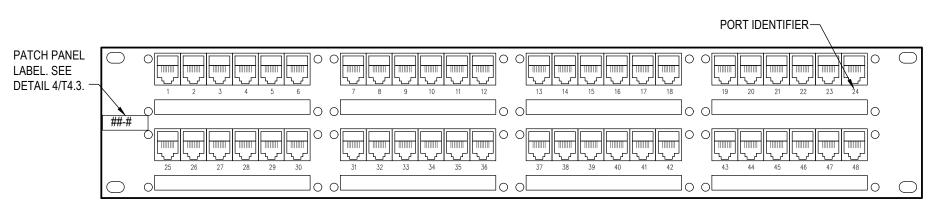




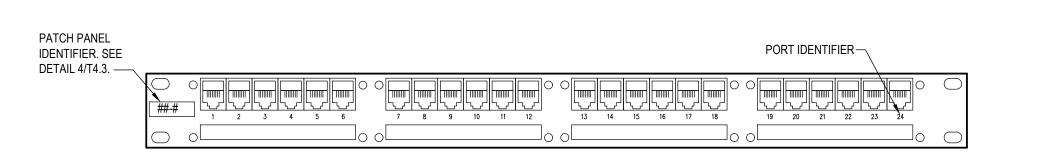


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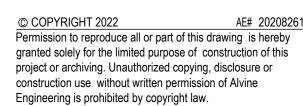
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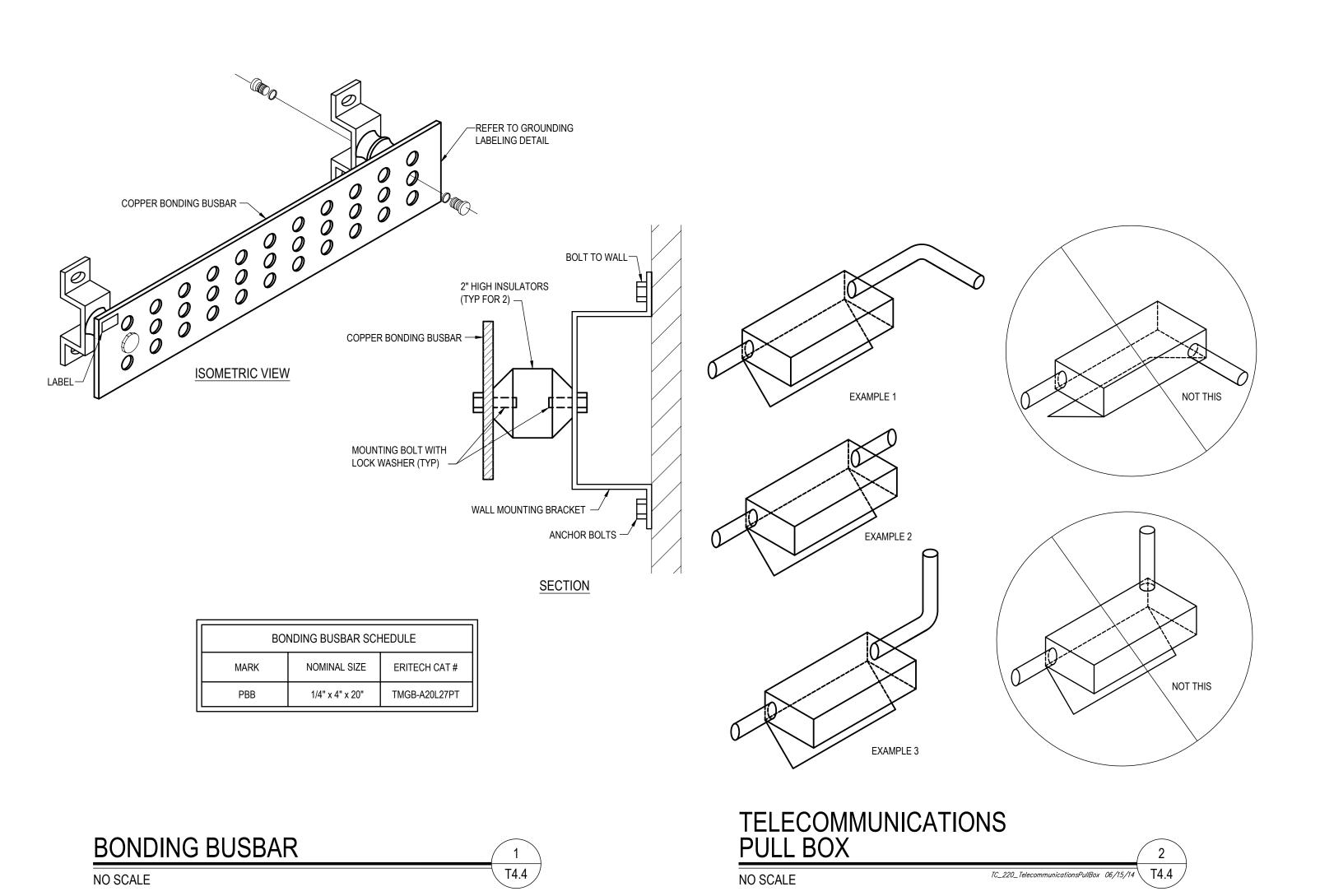
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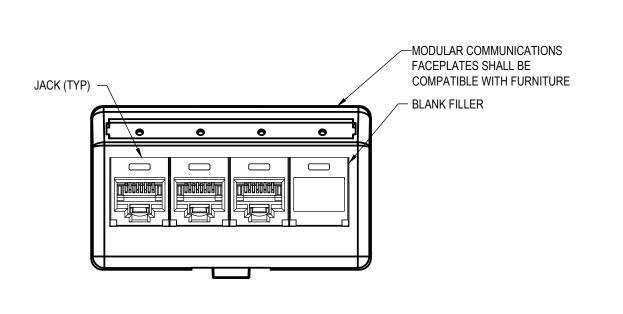
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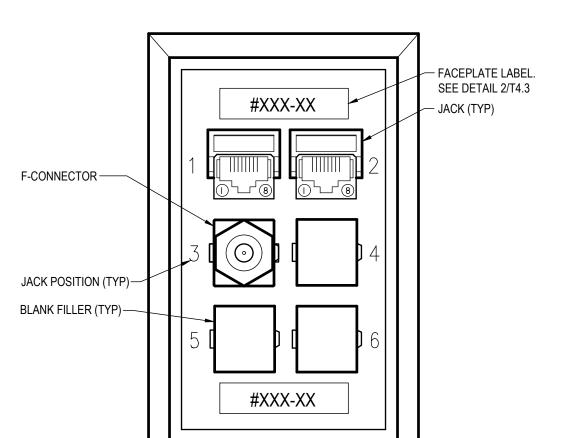
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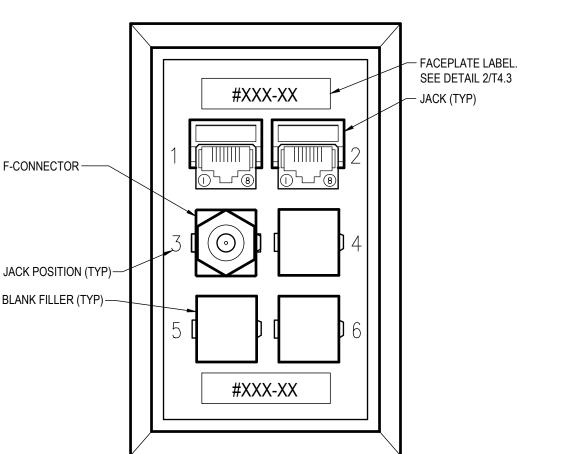
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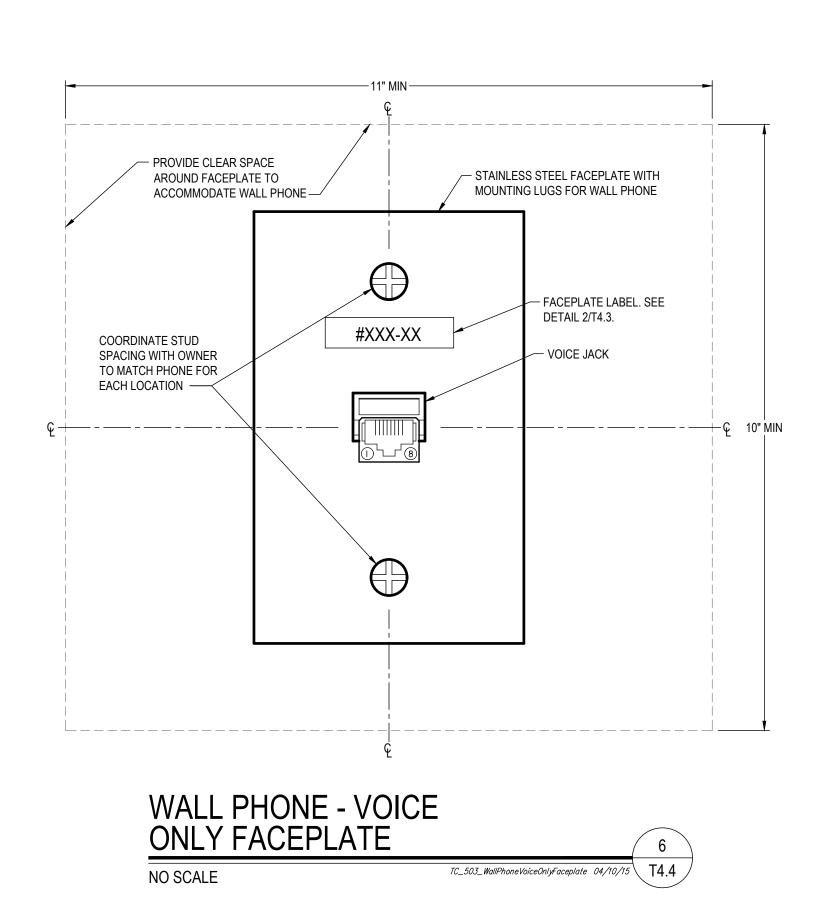


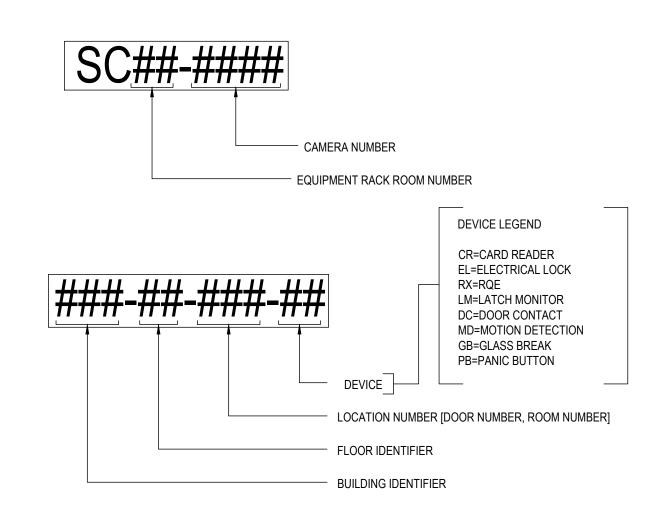


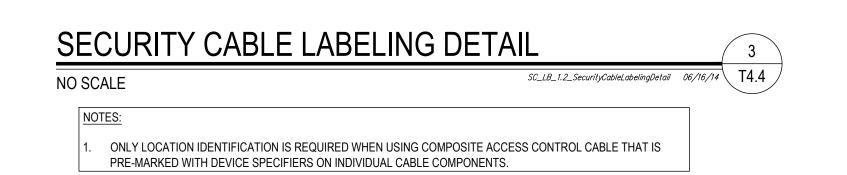


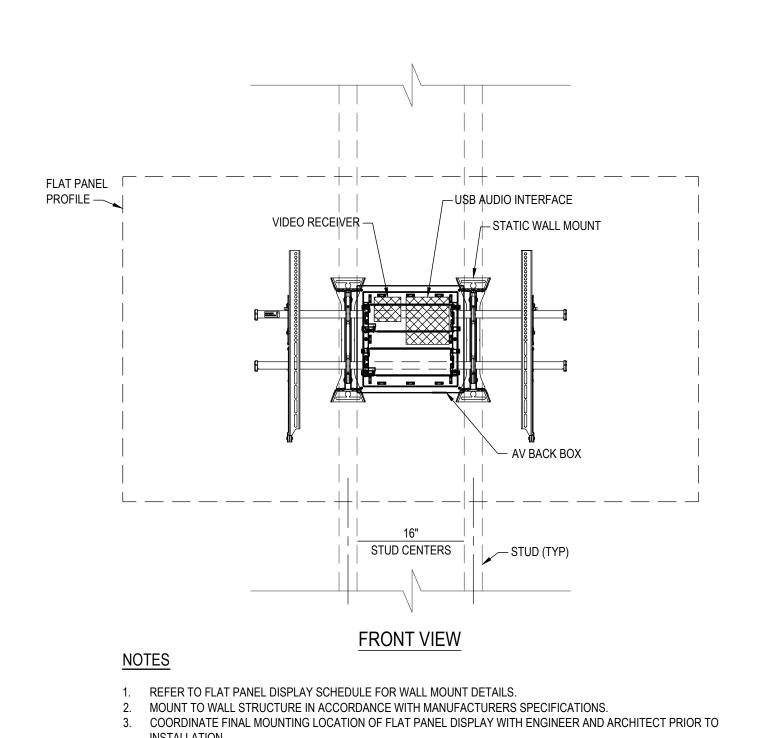












AV BACKBOX AND DISPLAY MOUNT

SEE VIDEO DISPLAY SCHEDULE FOR MOUNTING HEIGHT.
 SLIDING MOUNTING PLATE SHALL BE CHIEF CSSMP15X10. MOUNT TO WALL WITH ORIENTATION AS SHOWN ABOVE.

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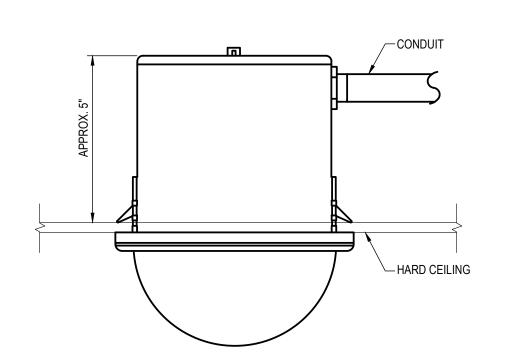
coordinate all work prior to installation to provide clearances

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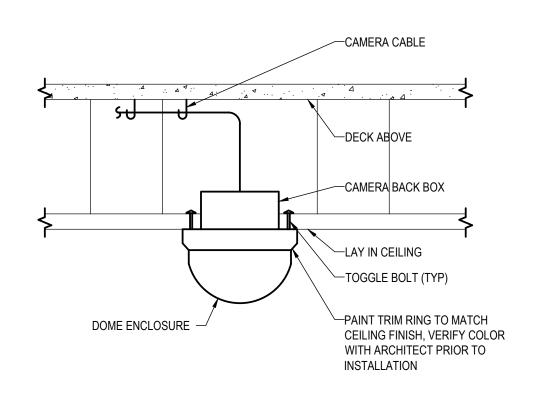
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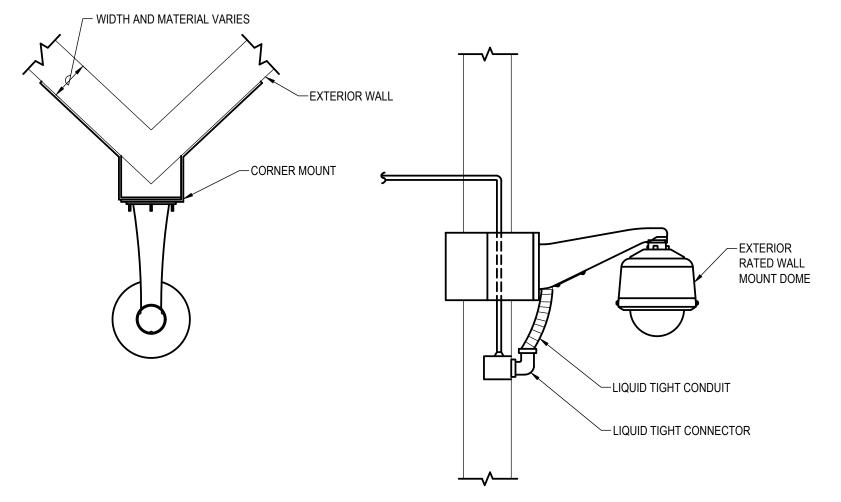
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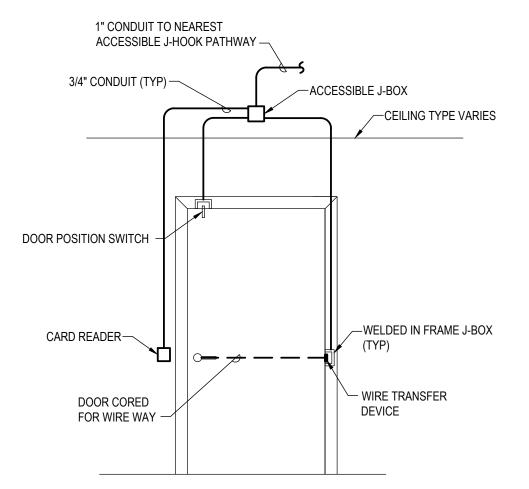




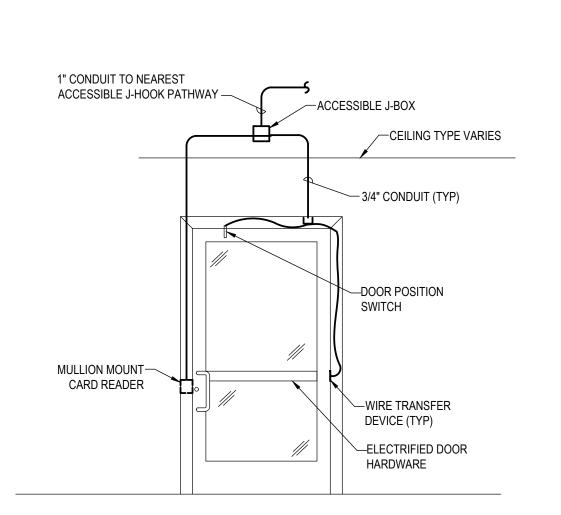


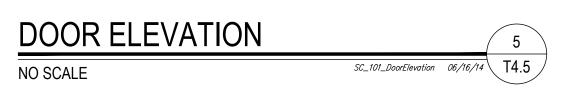


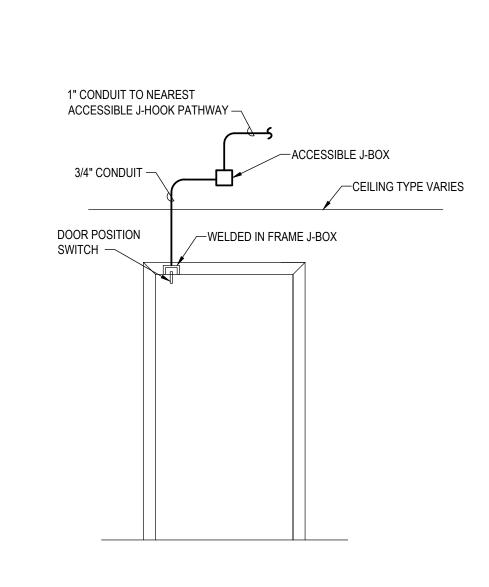




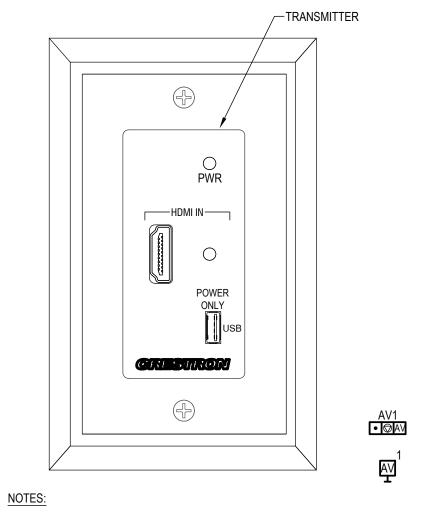






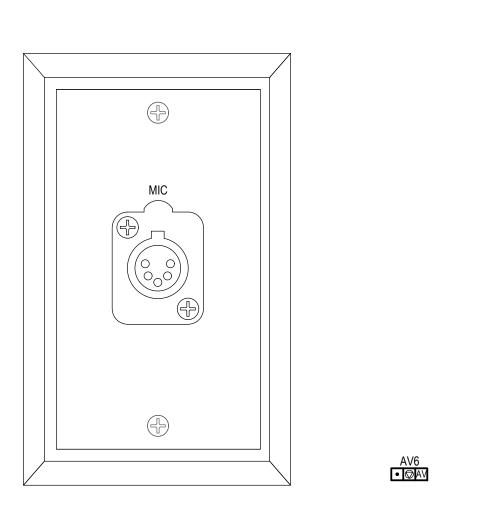






- 1. AV FACEPLATE SHALL BE 1-GANG CUSTOM PANELCRAFTERS WITH (1) DECORA OPENING FOR TRANSMITTER CONNECTOR.
- 2. FACEPLATES AND CONNECTORS LOCATED AT MILLWORK SHALL BE BLACK IN COLOR. 3. COORDINATE FINISH WITH ARCHITECT DURING SUBMITTAL PROCESS. 4. REFER TO SCHEMATIC FOR EQUIPMENT TYPES.

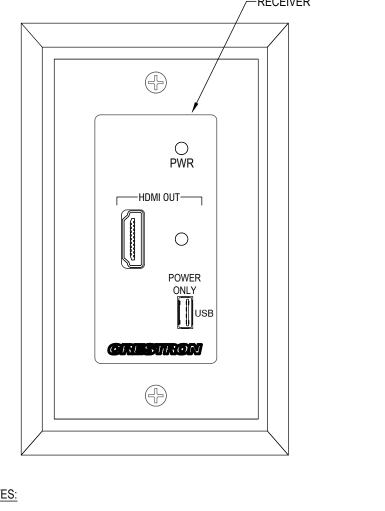






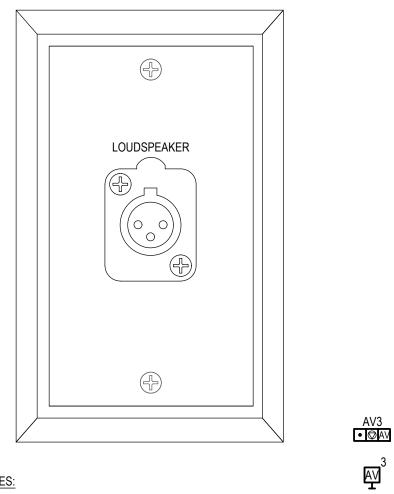
1. AV FACEPLATE IS CUSTOM 1-GANG PANELCRAFTERS. 2. FACEPLATES AND CONNECTORS LOCATED AT MILLWORK SHALL BE BLACK IN COLOR. 3. COORDINATE FINISH WITH ARCHITECT DURING SUBMITTAL PROCESS.





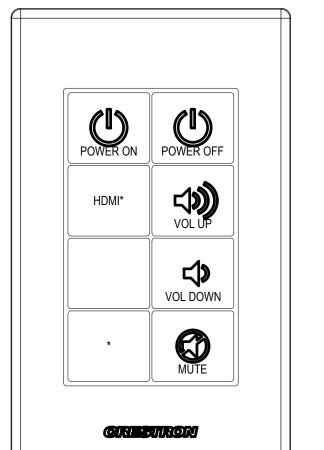
- 1. AV FACEPLATE SHAL BE 1-GANG CUSTOM PANELCRAFTERS WITH (1) DECORA OPENING FOR
- CRESTRON RECEIVER CONNECTOR. FACEPLATES AND CONNECTORS LOCATED AT MILLWORK SHALL BE BLACK IN COLOR. 3. COORDINATE FINISH WITH ARCHITECT DURING SUBMITTAL PROCESS.





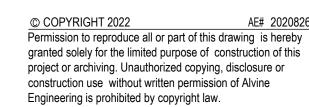
1. AV FACEPLATE IS CUSTOM 1-GANG PANELCRAFTERS. FACEPLATES AND CONNECTORS LOCATED AT MILLWORK SHALL BE BLACK IN COLOR. 3. COORDINATE FINISH WITH ARCHITECT DURING SUBMITTAL PROCESS.





1. AV CONTROL PANEL IS CRESTRON BPC-8 WITH CUSTOM ENGRAVED BUTTONS.

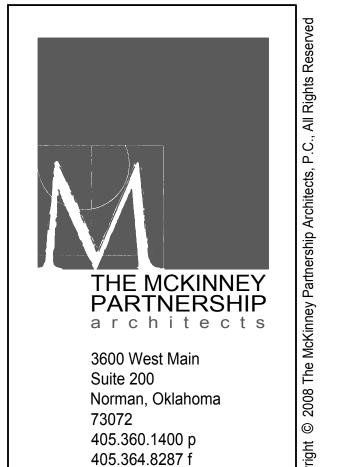
2. COORDINATE FINISH WITH ARCHITECT. 3. * COORDINATE SOURCE BUTTONS WITH SYSTEM SCHEMATIC.



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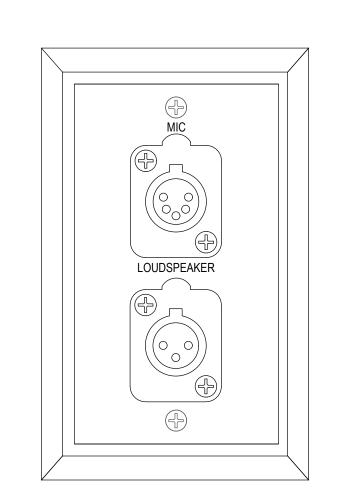
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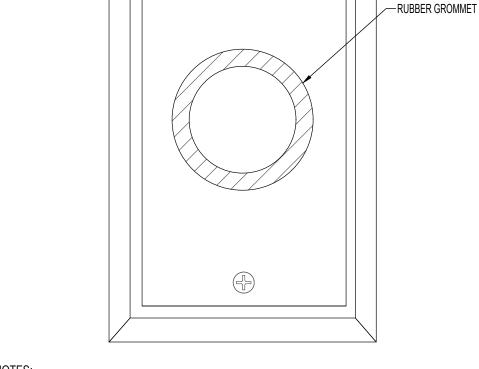
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		SPECIAL SYSTEMS-EL	ECTRICAL ROUGH-I	N AND CO	ONDUIT RE	QUIREMENTS		
SYMBOL ATTRIBUTE	TYPE	DESCRIPTION	ELECTRICAL ROUGH-IN BOX	BACK BOX DEPTH	ELECTRICAL PLASTER RING	CONDUIT/PATHWAY SIZE	MOUNTING HEIGHTS	REMARKS
R1	RECESSED - WALL	FLUSH WALL MOUNT OUTLET	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	18" AFF	1A
R2	RECESSED - WALL	FLUSH WALL MOUNT OUTLET (CONDUIT AT CEILING TO TRAY)	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	18" AFF	2A
R3	RECESSED - WALL	PULL-STRING IN WALL TO OUTLET	1-GANG CUT-IN BOX	-	1-GANG	-	18" AFF	11A
R4	RECESSED - WALL	PULL-STRING IN WALL TO OUTLET (CONDUIT AT CEILING TO TRAY)	1-GANG CUT-IN BOX	-	1-GANG	-	18" AFF	2A,11A
R5	RECESSED - WALL	FLUSH WALL MOUNT OUTLET (CONDUIT AT CEILING TO TRAY)	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	8A	-
R6	RECESSED - WALL	FLUSH WALL MOUNT OUTLET	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	4A	-
R7	SURFACE - WALL	SURFACE MOUNT OUTLET	WIREMOLD V2444 OR APPROVED EQUAL	-	-	(1) 1" / 2-PIECE STEEL SURFACE RACEWAY	18" AFF	9A,10A
R8	SURFACE - WALL	CONDUIT (NO RACEWAY)	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	18" AFF	1A
R9	SURFACE - WALL	CONDUIT (NO RACEWAY)	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	18" AFF	2A
R10	SURFACE - WALL	SURFACE RACEWAY (NO CONDUIT)	WIREMOLD V2444 OR APPROVED EQUAL	-	-	2-PIECE STEEL SURFACE RACEWAY	18" AFF	9A
R11	EXISTING RECESSED	WALL MOUNT OUTLET EXTENSION BOX WIREMOLD V5760	EXTENSION BOX	1-3/8" EXTENSION	1-GANG	-	-	14A
R12	RECESSED-WALL	FLUSH WALL MOUNT OUTLET	4-SQUARE DEEP	2-1/8"	2-GANG	(1) 1"	17A	15A
R13	SURFACE - WALL	DIVIDED DATA/POWER RACEWAY	WIREMOLD V2444-2 DATA WIREMOLD V2444D POWER	-	-	(1) 1" / 2-PIECE STEEL SURFACE RACEWAY	-	3A,10A
R14	SURFACE - WALL	DIVIDED DATA/POWER RACEWAY (NO CONDUIT)	WIREMOLD V2444-2 DATA WIREMOLD V2444D POWER	-	-	DIVIDED STEEL SURFACE RACEWAY	-	3A
R15	SURFACE - WALL	DIVIDED DATA/POWER RACEWAY	WIREMOLD 4000	-	-	DIVIDED STEEL SURFACE RACEWAY	-	3A,10A,13A
R16	ABOVE CEILING	CABLE SUPPORTED VIA J-HOOKS ABOVE CEILING	-	-	-	-	-	12A
R17	RECESSED - CEILING	FLUSH OUTLET ROUGH-IN AT ACCESSIBLE CEILING	4-SQUARE DEEP	2-1/8"	1-GANG	J-HOOK CABLE SUPPORT	-	7A
R18	RECESSED - CEILING	FLUSH OUTLET ROUGH-IN AT INACCESSIBLE CEILING	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	-	2A
R19	SURFACE - CEILING	CEILING OUTLET ROUGH-IN	WIREMOLD V2444 OR APPROVED EQUAL	-	-	2-PIECE STEEL SURFACE RACEWAY	-	9A
R20	SURFACE - CEILING	CEILING OUTLET ROUGH-IN	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	-	2A
R21	RECESSED - WALL	DISPLAY BACK BOX	CHIEF PAC526 SERIES	-	-	AV: (1) 1-1/4", DATA: (1) 1"	60" AFF	3A
R22	RECESSED - WALL	FLUSH WALL MOUNT OUTLET	4-SQUARE DEEP	2-1/8"	1-GANG	(1) 1"	17A	15A, 16A
R23	RECESSED - WALL	FLUSH WALL MOUNT OUTLET	4-SQUARE DEEP	2-1/8"	2-GANG	(1) 1"	4A	2A

GENERAL NOTES:

- FIRESTOP ALL CONDUIT AND PATHWAY WALL PENETRATIONS.
- 2. COORDINATE INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE.
- 3. PROVIDE A PULL-STRING AT BOTH CONDUIT PATHWAY ENDS FOR EACH OUTLET. LABEL END OF PULL STRING WITH OUTLET IDENTIFICATION. REFER TO OUTLET FACEPLATE LABEL DETAILS.
- 4. COORDINATE MOUNTING HEIGHT TO MATCH ADJACENT DEVICES WHERE APPLICABLE. STANDARD OUTLET IS 18" AFF, UNLESS NOTED OTHERWISE.
- 5. PROVIDE BLANK COVER PLATE FOR UN-USED ROUGH-INS.
- 6. USE MANUFACTURER KNOCK-OUTS WITH SURFACE MOUNT OUTLETS. VERIFY ORIENTATION OF SURFACE MOUNT BOX KNOCK-OUTS PRIOR TO INSTALLATION.
- 7. LABEL END OF CABLE PATHWAY CONDUIT WITH OUTLET FACEPLATE LABEL.
- 8. PROVIDE GROUND BUSHING AT END OF EACH CONDUIT STUB-OUT.

REMARKS:

- 1A. TERMINATE CONDUIT ABOVE NEAREST ACCESSIBLE CEILING WITHIN SAME ROOM (UNO).
- 2A. TERMINATE CONDUIT FROM WALL OR CEILING OUTLET ABOVE CEILING WITHIN 12" OF NEAREST CABLE TRAY. PROVIDE #12 BONDING JUMPER FROM CONDUIT TO CABLE TRAY.
- 3A. SEE ELECTRICAL DRAWINGS FOR POWER AND ADDITIONAL REQUIREMENTS.
- 4A. MOUNTING HEIGHT TO MATCH ELECTRICAL SWITCH HEIGHT.

 5A. ROUTE CONDUIT FROM DATA COMPARTMENT OF FLOOR BOX TO
- 5A. ROUTE CONDUIT FROM DATA COMPARTMENT OF FLOOR BOX TO ABOVE ACCESSIBLE CEILING WITHIN SAME ROOM (UNO). REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION.
- A. ROUTE CONDUIT FROM AV COMPARTMENT OF FLOOR BOX TO WALL OUTLET ROUGH-IN BEHIND FLAT PANEL WALL DISPLAY IN SAME ROOM.
- 7A. PROVIDE ACCESSIBLE CEILING TILE T-GRID OUTLET BOX SUPPORT HANGER ERICO SNAP-ON OR APPROVED EQUIVALENT.
- 8A. WALL PHONE OUTLET. LOCATE AT 46" AFF. SEE WALL PHONE DETAIL ON DRAWINGS.
- 9A. PROVIDE SURFACE RACEWAY AND OUTLET BOX WIREMOLD LEGRAND 2400 SERIES OR APPROVED EQUIVALENT. PROVIDE COVER CLIPS WHEN JOINING PIECES OF COVER.

 10A. PROVIDE CONDUIT FEED FITTING AT END OF RACEWAY (ABOVE ACCESSIBLE CEILING OR AT WALL PENETRATION).
- 10A. PROVIDE CONDUIT FEED FITTING AT END OF RACEWAY (ABOVE ACCESSIBLE CEILING OR AT WALL PENETRATION). 14A - INSTALL CARLE IN EXISTING WALL CAVITY AND DROVIDE DUIL STRING DEAM EDGES OF WALL CAVITY TO DREVENT C.
- 11A. INSTALL CABLE IN EXISTING WALL CAVITY AND PROVIDE PULL-STRING. REAM EDGES OF WALL CAVITY TO PREVENT CABLE DAMAGE. PROVIDE GROMMET AT METAL STUD WALLS.
- 12A. TERMINATE CABLE ON A 2-PORT PLENUM RATED SURFACE MOUNT BOX. PROVIDE SELF-ADHESIVE YELLOW DOT AT CEILING BELOW CABLE SLACK LOCATION. PROVIDE 20' CABLE SLACK.
- 13A. VERIFY FACEPLATE STYLE PRIOR TO ORDERING.
- 14A. INSTALL CABLE TO OUTLET IN WALL USING EXISTING CABLE PATH.
- 15A. ROUTE CONDUIT THROUGH FURNITURE SYSTEM AND HALF-HEIGHT WALL(S) TO NEAREST FULL-HEIGHT WALL, OR TO NEAREST COLUMN THROUGH IN-SLAB CONDUIT. DO NOT EXCEED (2) 90 DEGREE CONDUIT BENDS BETWEEN PULL POINTS.
- 16A. ROUTE CABLING THROUGH GROMMET IN TABLETOP.
- 17A. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.

LINE	CAMERA NAME	CAMERA MODEL	CAMERA TYPE	CAMERA RESOLUTION	LENS TYPE	_	LENGTH AX (mm)	ENCLOSURE TYPE	DETAIL#	CABLE NOTES	CAMERA NOTES
1	1.1	-	-	-	-	-	-	INDOOR DOME	1/T4.5	A	2
2	1.2	-	-	-	-	-	-	INDOOR DOME	2/T4.5	Α	2
3	1.3	HANWHA TECHWIN	XNF-8010R	7.3 MP	FIXED	3.6	-	INDOOR DOME	2/T4.5	А	1
4	1.4	HANWHA TECHWIN	XNF-8010R	7.3 MP	FIXED	3.6	-	INDOOR DOME	2/T4.5	Α	1
5	1.5	HANWHA TECHWIN	XNF-8010R	7.3 MP	FIXED	3.6	-	INDOOR DOME	2/T4.5	А	1
6	1.6	HANWHA TECHWIN	XNF-8010R	7.3 MP	FIXED	3.6	-	INDOOR DOME	2/T4.5	А	1
7	1.7	HANWHA TECHWIN	XNF-8010R	7.3 MP	FIXED	3.6	-	INDOOR DOME	2/T4.5	А	1
8	1.8	-	-	-	-	-	-	INDOOR DOME	2/T4.5	А	2
9	1.9	-	-	-	-	-	-	INDOOR DOME	2/T4.5	А	2
10	1.10	-	-	-	-	-	-	INDOOR DOME	1/T4.5	А	2
11	1.11	-	-	-	-	-	-	INDOOR DOME	1/T4.5	А	2
12	1.12	HANWHA TECHWIN	XND-8020R	5MP	FIXED	3.7	3.7	INDOOR DOME	2/T4.5	А	-
13	1.13	HANWHA TECHWIN	XND-8020R	5MP	FIXED	3.7	3.7	INDOOR DOME	2/T4.5	А	-
14	1.14	-	-	-	-	-	-	INDOOR DOME	2/T4.5	А	2
15	1.15	HANWHA TECHWIN	QNV-6082R	2MP	VARIFOCAL	3.2	10	INDOOR DOME	2/T4.5	А	-
16	1.16	HANWHA TECHWIN	QNV-6082R	2MP	VARIFOCAL	3.2	10	INDOOR DOME	2/T4.5	А	-
17	1.17	HANWHA TECHWIN	QND-6082R	2MP	VARIFOCAL	3.2	10	INDOOR DOME	2/T4.5	А	-
18	1.18	HANWHA TECHWIN	QND-6082R	2MP	VARIFOCAL	3.2	10	INDOOR DOME	2/T4.5	Α	-
19	E.1	-	-	-	-	-	-	OUTDOOR DOME	-	А	3
20	E.2	-	-	-	-	-	-	OUTDOOR DOME	-	А	3
21	E.3	-	-	-	-	-	-	OUTDOOR DOME	-	А	3

7. THE VARI-FOCAL LENS RANGE STATED IS APPROXIMATE. PROVIDE A VARIFOCAL LENS WITH A MIN NO GREATER THAN AND A MAX NO LESS THAN .5mm FROM THE VALUE STATED IN THE CAMERA SCHEDULE

CAMERA NOTES:

- 1. CAMERA SHALL PROVIDE A 180 DEGREE FIELD OF VIEW.
- 2. EXISTING CAMERA RELOCATED WITH NEW CABLING.
- 3. EXISTING CAMERA PROVIDED WITH NEW CABLING. EXISTING MOUNT TO BE REUSED UNLESS DEEMED UNUSABLE.

CABLE NOTES:

A. CATEGORY 6 CABLE.

GENERAL NOTES:

- 1. REFER TO 28 2300 FOR ADDITIONAL INFORMATION REGARDING THE ELECTRONIC VIDEO SURVEILLANCE SYSTEM
- 2. REFER TO COPPER RISER FOR CONNECTIVITY INFORMATION.
- 3. REVIEW FINAL FOV WITH OWNER AS PART OF FINAL INSPECTIONS.
- 4. VERIFY FINAL MOUNTING HEIGHTS OF EXTERIOR BUILDING MOUNT CAMERA WITH ARCHITECT.
- 5. UNLESS NOTED OTHERWISE ALL CAMERAS TO BE RECORDED AT FULL RESOLUTION AND 10 FPS.
- 6. PROVIDE LENSES THAT ARE RATED FOR THE RESOLUTION OF THE CAMERA BEING PROVIDED

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NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL



TRADES. READ SPECIFICATIONS.

CONSULTING + DESIGNwww.ipdesigngroup.com

THE MCKINNEY
PARTNERSHIP
architects

3600 West Main
Suite 200

Norman, Oklahoma

405.360.1400 p 405.364.8287 f tmparch.com

Seal:

Project:

City of Norman Municipal Court Municipal Court

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Project Number:

SCHEDULES - TELECOM

Sheet Number:

T5.0

							LOUDSPEAKER SCHEDULE					
No			L	OUDSPEAKER				ENGINE	ERING NOTES			
	MANUFACTURER	TYPE	SERIES	CATALOG No.	SHORT DESCRIPTION	FINISH	LONG DESCRIPTION	IMPEDANCE	TRANSFORMER TAPS	SENSITIVITY	FREQUENCY RESPONSE	REMARKS
1	SOUNDTUBE	IN-CEILING	DANTE	IPD4-CM62-BGM	6" DANTE IN-CEILING	WHITE	6" IP-ADDRESSABLE, DANTE ADDRESSABLE IN-CEILING POE SPEAKER	N/A	N/A	N/A	80Hz-20kHz	1A
2	SOUNDTUBE	IN-CEILING	CM-EZ	CM62-BGM	6" FULL RANGE	WHITE	6" COAXIAL IN-CEILING SPEAKER	16 OHMS	25V/70V/100V	85 dB	54Hz-20kHz	
3	INNOVOX	DESKTOP	AE	MICROLIFT-VC	2.5" LOW PROFILE	BLACK	2.5" ULTRA-SLIM 2-WAY TABLETOP SPEAKER	4 OHMS	25V/70V	85 dB	150Hz-20kHz	
4	INNOVOX	WALL	SLIM LINE	SL-1.1 US	4" SLIM PROFILE	BLACK	4" SLIM 2-WAY SURFACE-MOUNT WALL SPEAKER	8 OHMS	70V	89 dB	130Hz-20kHz	

GENERAL NOTES

- A CONTRACTOR TO VERIFY SPEAKER CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
- B COORDINATE LOUDSPEAKER FINISH DURING SUBMITTAL PROCESS.
- C PROVIDE LOUDSPEAKER WITH ALL REQUIRED MOUNTING HARDWARE.
- D COORDINATE LOUDSPEAKER BACKBOX ENCLOSURE INSTALLATION WITH THE ELECTRICAL CONTRACTOR.
- E COORDINATE MOUNTING DETAILS AND AIMING WITH CONSULTANT PRIOR TO INSTALLATION

DEL 44 DI/O

1A TERMINATE DATA CABLING IN ADJACENT ACCESSIBLE CEILING SPACE AND PROVIDE PATCH CORD TO LOUDSPEAKER IN LOCATIONS WHERE LOUDSPEAKER IS INSTALLED ABOVE AN INACCESSIBLE CEILING.

	PROJECTION SCREEN SCHEDULE													
No	No MANUFACTURER TYPE MODEL ASPECT RATIO DIAGONAL (HEIGHT X WIDTH) SURFACE MATERIAL MOUNTING HEIGHT BLACK DROP VENEER REMARKS													
1	DRAPER	FIXED	CINEPERM	16:10	137" (73" X 116")	MATT WHITE XT1000V	30" AFF TO BOTTOM OF SCREEN	NONE	BLACK	-				

GENERAL NOTE

- 1. CONTRACTOR TO VERIFY SCREEN CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
- 2. PROVIDE ALL NECESSARY MOUNTING HARDWARE AS SPECIFIED BY MANUFACTURER
- 3. FOR SPECIFIC ROOMS AND QUANTITIES REFER TO FLOOR PLAN DRAWINGS
- 4. COORDINATE FINISH OF PROJECTION SCREEN HOUSING WITH ARCHITECT DURING SUBMITTAL PHASE.

				PROJECTO	OR SCHEDULE				
No	MANUFACTURER	MODEL	ASPECT RATIO	MINIMUM RESOLUTION	MOUNTING TYPE	LUMEN OUTPUT	THROW RANGE	LENS	REMARKS
1	PANASONIC	PT-VMZ60U	16:10	WUXGA: 1920 x 1200	FIXED CEILING MOUNT	6,000	12'8"-20'8"	STANDARD	-

GENERAL NOTE

- 1. CONTRACTOR TO VERIFY PROJECTOR CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
- 2. PROVIDE ALL NECESSARY MOUNTING HARDWARE AS SPECIFIED BY MANUFACTURER
- 3. FOR SPECIFIC ROOMS AND QUANTITIES REFER TO FLOOR PLAN DRAWINGS
- 4. COORDINATE FINISH OF PROJECTOR AND PROJECTOR MOUNT WITH ARCHITECT DURING SUBMITTAL PHASE.

				VIDEO I	DISPLAY	SCHEDULE			
No	MANUFACTURER	INTERACTIVE	REMARKS						
1	SAMSUNG	AU8000	LANDSCAPE	4K: 3840 x 2160	85"	60"	CHIEF XTM1U	NO	
2	SHARP	E242N-BK	LANDSCAPE	FULL HD: 1920 x 1080	23.8"	REMARK 3	ERGOMART SL102 OR MOUNT-IT! MI-765	NO	1
3	SAMSUNG	QB-R	LANDSCAPE	4K: 3840 x 2160	75"	60"	CHIEF TS525TU	NO	2

GENERAL NOTES

- A MOUNTING HEIGHT INDICATES CENTER OF DISPLAY ABOVE FINISH FLOOR.
- B IN THE EVENT THE ABOVE DISPLAY MODELS ARE NOT AVAILABLE, PROVIDE AN RFI FOR APPROVAL OF SUBSTITUTE MODEL THAT MEETS THE LISTED REQUIREMENTS.
- C PROVIDE ALL NECESSARY MOUNTING HARDWARE AS SPECIFIED BY MANUFACTURER.

E REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS FOR DISPLAY LOCATIONS.

- D CONTRACTOR TO VERIFY MODEL NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
- DEMARKO
- REMARKS
- PROVIDE SL102 MOUNT FOR DISPLAYS LOCATED ON TABLETOP; PROVIDE MI-765 MOUNT FOR DISPLAYS LOCATED ON WALL.
 DIGITAL SIGNAGE DISPLAY.
- 3. REFER TO ARCHITECTURAL ELEVATIONS.

									Α	CCE	ESS	CO	NTR	OL	OPE	NIN	G S	CHE	DUL	E									
			C	CCES ONTRO DEVICE)L	CO	ACCES ONTRO DEVICI	OL E	E		RIFIEI RDW <i>A</i>	D DOO! ARE	R	DO	CTRIC DOR RIKE		MAG-	LOCK		D	OOR P SWI	OSITIO TCH	ON	TO-	UEST- EXIT VICE		LIARY /ICE		
DOOR NUMBER	DETAIL/SHEET NUMBER	TERMINATION POINT	PROXIMITY	MULLION	KEYPAD	PROXIMITY	MULLION	KEYPAD	REQUEST-TO-EXIT SWITCH	LATCH MONITOR SWITCH	ELECTRIC TRIM	ELECTRIC LATCH RETRACTION	DELAYED EGRESS	NO OPTIONS	INTEGRATED LATCH MONITOR	NO OPTIONS	INTEGRATED DOOR POSITION SWITCH	INTEGRATED REQUEST - TO - EXIT MOTION	DELAYED EGRESS	RECESSED	SURFACE MOUNT	GATE	OVERHEAD DOOR	MOTION SENSOR	PUSH BUTTON	KEY SWITCH	SOUNDER	ADA OPERATOR	REMARKS
101	4/T4.5	IT 139	Χ						Х		Х									Χ									6
107	5/T4.5	IT139		Х					Х		Х									Χ									
125	4/T4.5	IT 139	Χ						Х		Х		Х							Χ									6
139	4/T4.5	IT 139	Х						Х		Х									Х									
140	4/T4.5	IT 139	Χ						Х		Х									Х									
146	7/T4.2	IT 139		Х					Х		Х									X									
E1	3/T4.2	IT 139																		X									
E3	6/T4.5	IT 139																		X									
E4	6/T4.5	IT 139		V							V	-		-						X					-				_
E5	4/T4.5	IT 139		X					X		Х	-								X									5
E6	4/T4.2	IT 139		V																X									F
E7	4/T4.5	IT 139		Χ					Х		X									Χ									5

GENERAL NOTES:

1. REFER TO SPECIFICATION 28 1300 FOR ADDITIONAL INFORMATION REGARDING THE ACCESS CONTROL SYSTEM

2. REFER TO DIVISION 8 DOOR HARDWARE SPECIFICATIONS FOR DOOR HARDWARE DETAILS

REMARKS:

- DOUBLE DOOR WITH BOTH DOORS CONTROLLED AND MONITORED
- DOUBLE DOOR WITH ONE DOOR CONTROLLED AND BOTH DOORS MONITORED LOCATE CARD READER ADJACENT TO OUTSIDE ADA BUTTON
- PROVIDE TWO DOOR POSITION SWITCHES FOR EACH DOOR FOR LEAF, ONE FOR EAC AND ONE FOR IDS.
- 5. REUSE EXISTING DEVICES AND HARDWARE LOCATED AT DOOR.
- 6. PROVIDE EXISTING DEVICES AND HARDWARE FROM DEMOLISHED DOOR.

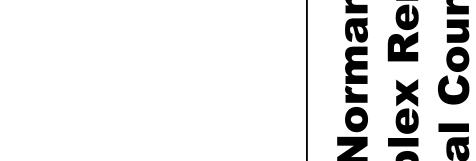
				F	LOOR BO	X AND	POKE THE	RU SCH	HEDULE					
MADIZ	FLOOR	POKE	MANUEACTURER	MODEL NO	COVER		COMPARTMEN	ITS (QTY.)		CO	NDUIT (PER	COMPARTMENT, U	JNO)	DEMARKS
MARK	вох	THRU	MANUFACTURER	MODEL NO.	COVER	POWER	VOICE/DATA	AV	SPARE	POWER	AV	VOICE/DATA	SPARE	REMARKS
1	Х		LEGRAND	RFB2E-OG	6CT2AA	1	1	0	0	(1) 1"	0	(1) 1"	0	1A
2	Х		LEGRAND	EFB45S-OG	EFB45BTAL	1	1	1	1	(1) 1"	(1) 1-1/4"	(1) 1"	0	2A
3	Х		LEGRAND	EFB6S-OG	EFB610BTBK	1	1	4	0	(1) 1"	(2) 1-1/4"	(1) 1"	0	ЗА

GENERAL NOTES

- a CONTRACTOR TO VERIFY CATALOG NUMBER AND INSULATION REQUIREMENTS PRIOR TO ORDERING.
- b PROVIDE ACCESSORIES AS REQUIRED FOR DEVICE INSTALLATION. PROVIDE MANUFACTURER'S STANDARD BLANK PLATES AS REQUIRED FOR UNUSED BOX COMPARTMENTS.
- c COORDINATE VOICE/DATA REQUIREMENTS WITH INSTALLING CONTRACTOR.
- d UNLESS NOTED OTHERWISE, ROUTE LOW-VOLTAGE AND SPARE CONDUITS TO ABOVE ACCESSIBLE CEILING IN SAME ROOM AS THE FLOOR BOX/POKE THRU. TERMINATE WITH INSULATING BUSHINGS.
- e COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. f VERIFY FINISH/COLOR WITH ARCHITECT.

REMARKS

- 1A. PROVIDE (1) RFB6RT FOR POWER COMPARTMENT AND (1) RFB6RT FOR VOICE/DATA COMPARTMENT.
- 2A. PROVIDE (1) EFB10-DP FOR POWER COMPARTMENT, (1) EFB10-DP FOR VOICE/DATA COMPARTMENT, (1) EFB10-DEC FOR AV COMPARTMENT, AND (1) EFB10-B FOR SPARE.
- 3A. INSTALL (1) AV CONDUIT TO EACH SIDE MODULE FOR TOTAL OF (2) AV CONDUITS.



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THE MCKINNEY

PARTNERSHIP

architects

3600 West Main

405.360.1400 p 405.364.8287 f tmparch.com

Norman, Oklahoma

Suite 200

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coordinate all work prior to installation to provide clearances

required for operation, maintenance, and codes and verify

and other appropriate drawing or at site. lay out and

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