

INDEX OF DRAWINGS

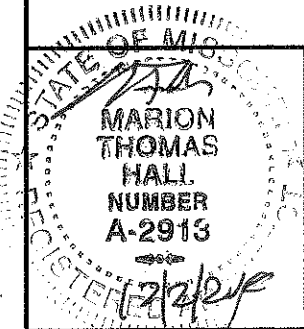
- 1 - 20 COVER SHEET
- 2 - 20 SITE PLAN
- 3 - 20 FOUNDATION PLAN
- 4 - 20 FOUNDATION DETAILS
- 5 - 20 FOUNDATION DETAILS
- 6 - 20 FLOOR PLAN
- 7 - 20 SCHEDULES
- 8 - 20 ELEVATIONS
- 9 - 20 INTERIOR ELEVATIONS
- 10 - 20 HEAD & JAMB DETAILS
- 11 - 20 BUILDING SECTION
- 12 - 20 BUILDING SECTION
- 13 - 20 WALL SECTIONS
- 14 - 20 ROOF FRAMING PLAN
- 15 - 20 REST ROOM PLUMBING PLAN
- 16 - 20 PLUMBING PLAN
- 17 - 20 MECHANICAL PLAN
- 18 - 20 LIGHTING PLAN
- 19 - 20 POWER PLAN
- 20 - 20 ELECTRICAL PANEL & NOTES

MISSOURI DEPARTMENT
OF TRANSPORTATION

Kansas City Stadium Mechanics Addition
Kansas City District
9101 E 40th Terrace
Jackson County

CODE REQUIREMENTS

- BUILDING CODE - CURRENT IBC
- PLUMBING CODE - CURRENT IBC
- MECHANICAL CODE - CURRENT IBC
- ELECTRICAL CODE - CURRENT N.E.C.



COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
1 of 20

SITE NOTES:

- (A) CONNECT NEW SANITARY SEW TO EXISTING OIL SEPARATOR AS REQUIRED. PROVIDE CLEAN-OUT. SEE PLUMBING PLAN.

GRADING NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR:

- EXCAVATION OF THE SUB GRADE.
- EXCAVATING OF FOOTINGS.
- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
- CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
- BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
- ALL FILL, BACK FILL & SUB GRADE MATERIAL AS REQUIRED.
- FINISHED GRADE TO DRAIN AWAY FROM BUILDING.
- PROVIDE TOP SOIL, FERTILIZE, SEED AND STRAW AT ALL THE LAWN AREAS DISTURBED DURING CONSTRUCTION.
- PROVIDE FINISHED GRADE MATERIAL DISTURBED DURING CONSTRUCTION TO MATCH EXISTING.
- VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
- MODOT TO HAVE THE BUILDING CORNERS STAKED AND THE BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELED.

EXISTING UTILITIES LEGEND

GAS ----- G -----
 WATER ----- W -----
 ELECTRICAL ----- E -----
 SANITARY SEWER ----- S -----

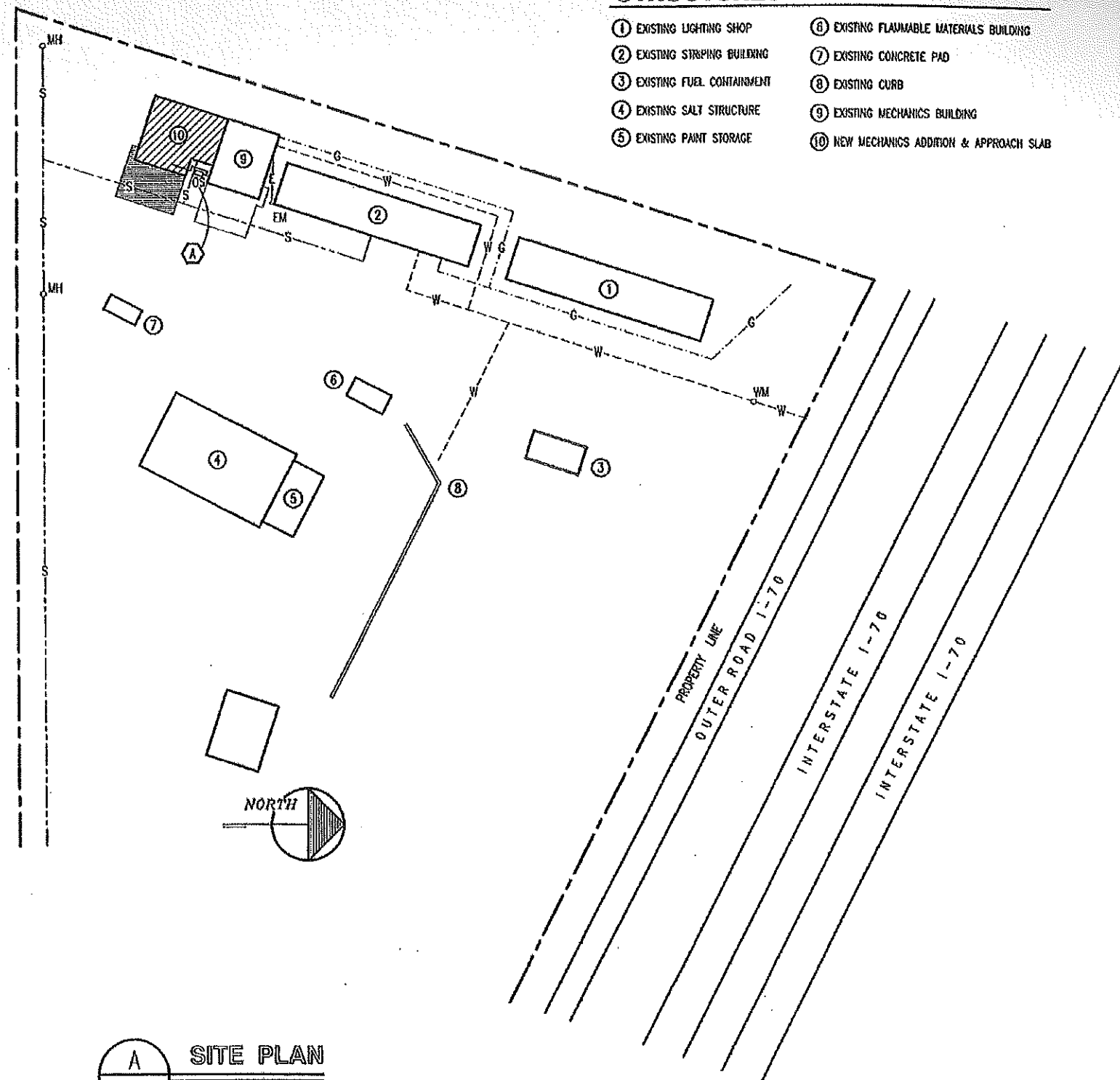
MANHOLE -- MH WATER METER -- WM ELECTRIC METER -- EM
 OIL SEPARATOR -- OS

NEW UTILITIES LEGEND

SANITARY SEWER ----- S -----

STRUCTURES

- | | |
|------------------------------|--|
| ① EXISTING LIGHTING SHOP | ⑥ EXISTING FLAMMABLE MATERIALS BUILDING |
| ② EXISTING STRIPING BUILDING | ⑦ EXISTING CONCRETE PAD |
| ③ EXISTING FUEL CONTAINMENT | ⑧ EXISTING CURB |
| ④ EXISTING SALT STRUCTURE | ⑨ EXISTING MECHANICS BUILDING |
| ⑤ EXISTING PAINT STORAGE | ⑩ NEW MECHANICS ADDITION & APPROACH SLAB |



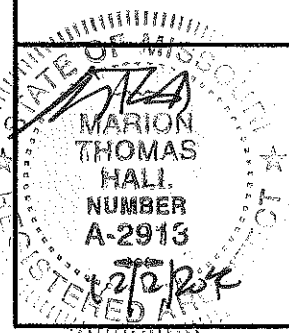
A
2
SITE PLAN
SCALE: 1" = 100'-0"

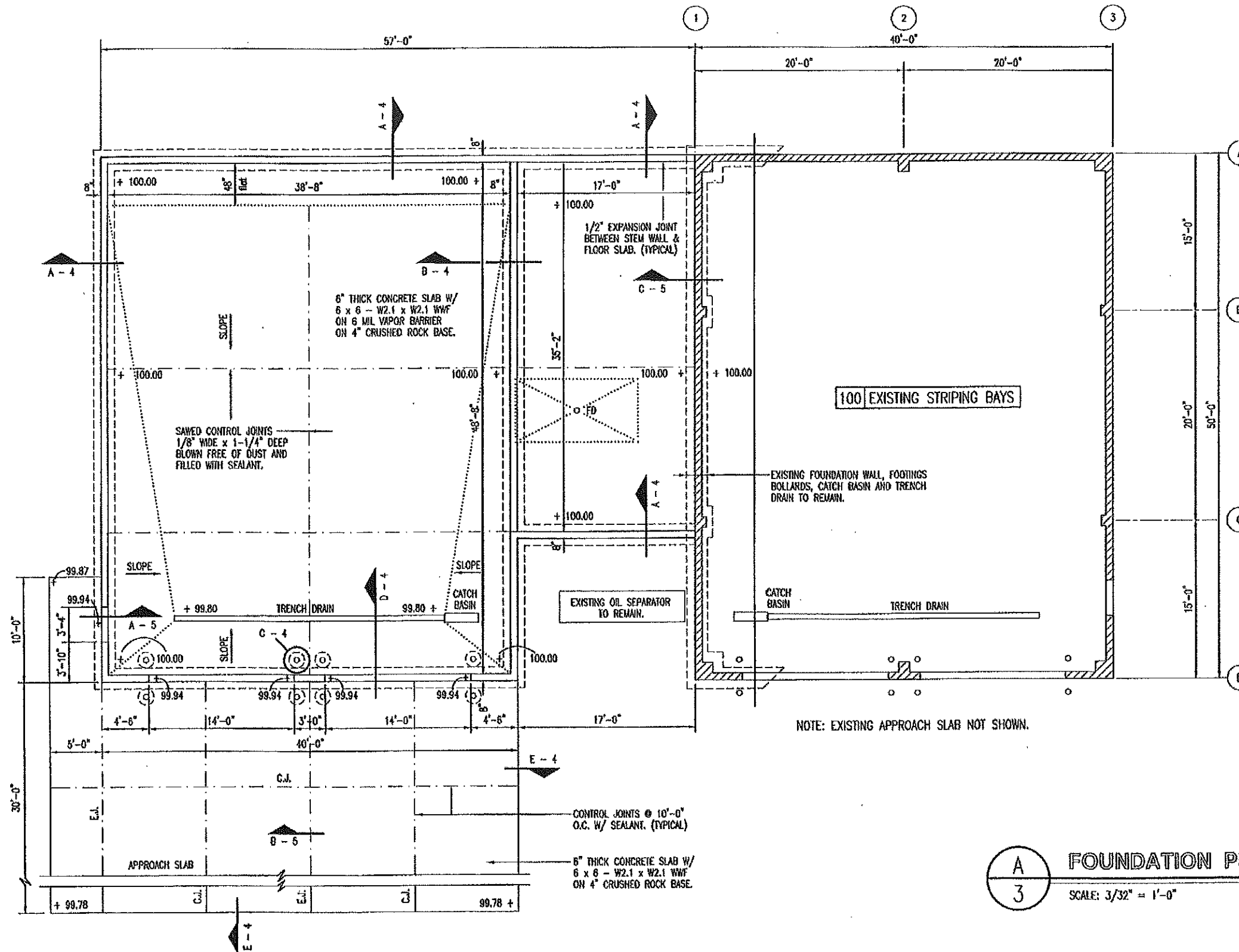
SITE PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

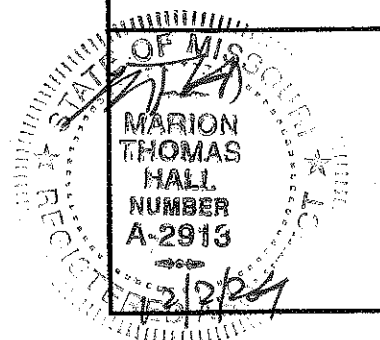
KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
2 of 20





FOUNDATION PLAN
 SCALE: 3/32" = 1'-0"

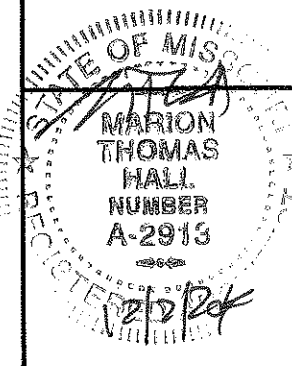
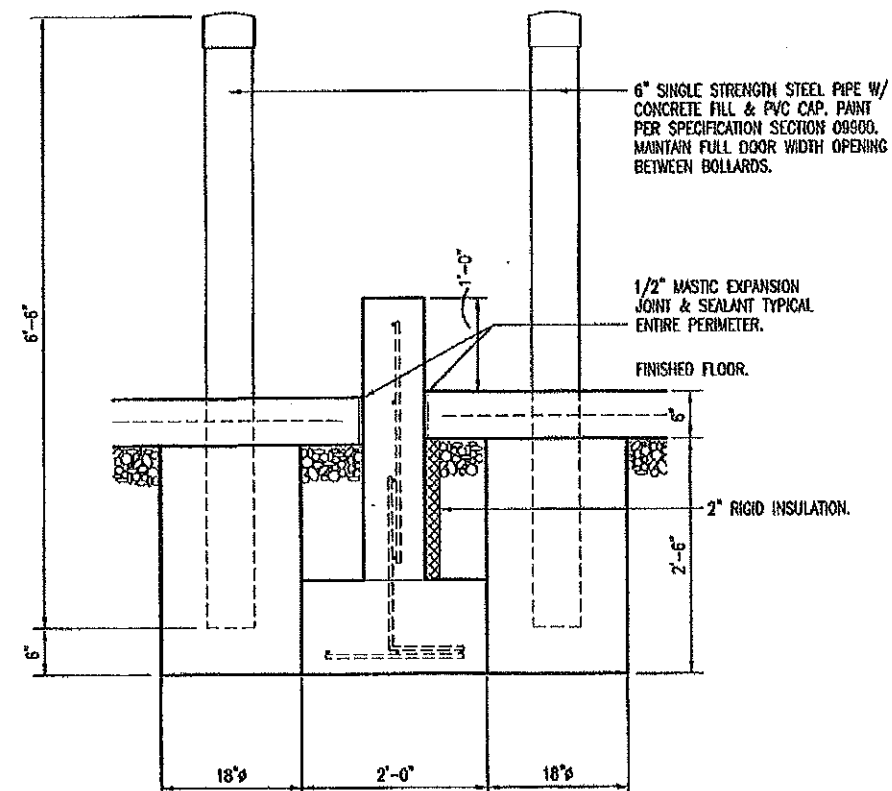
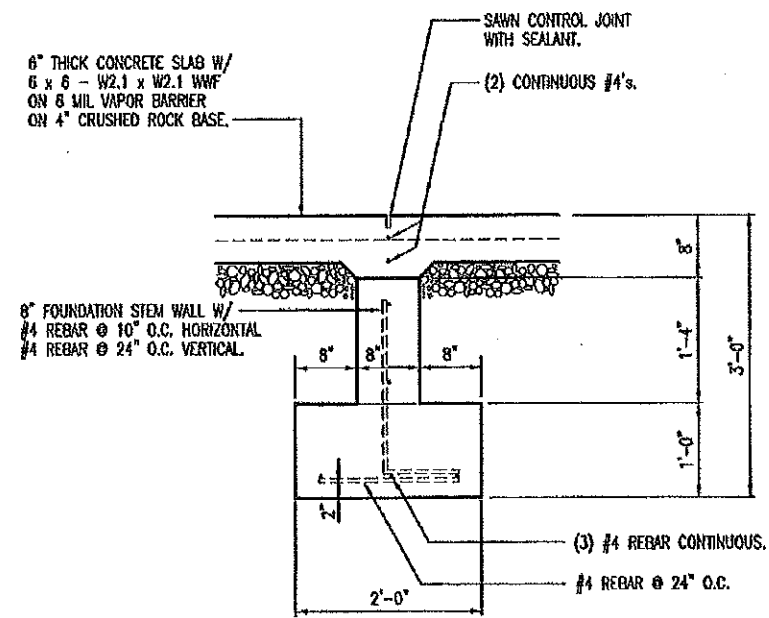
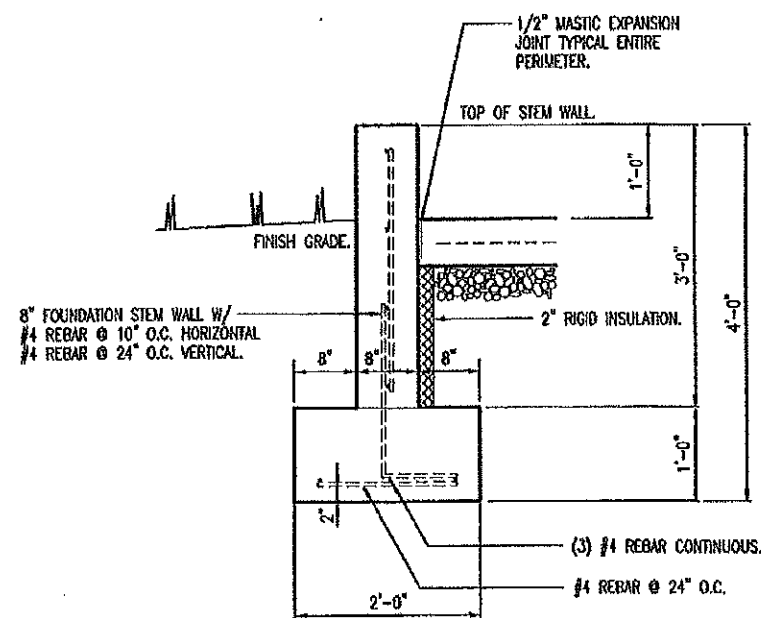
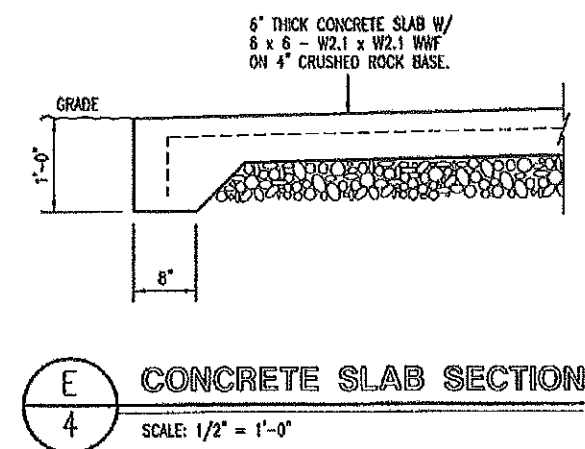
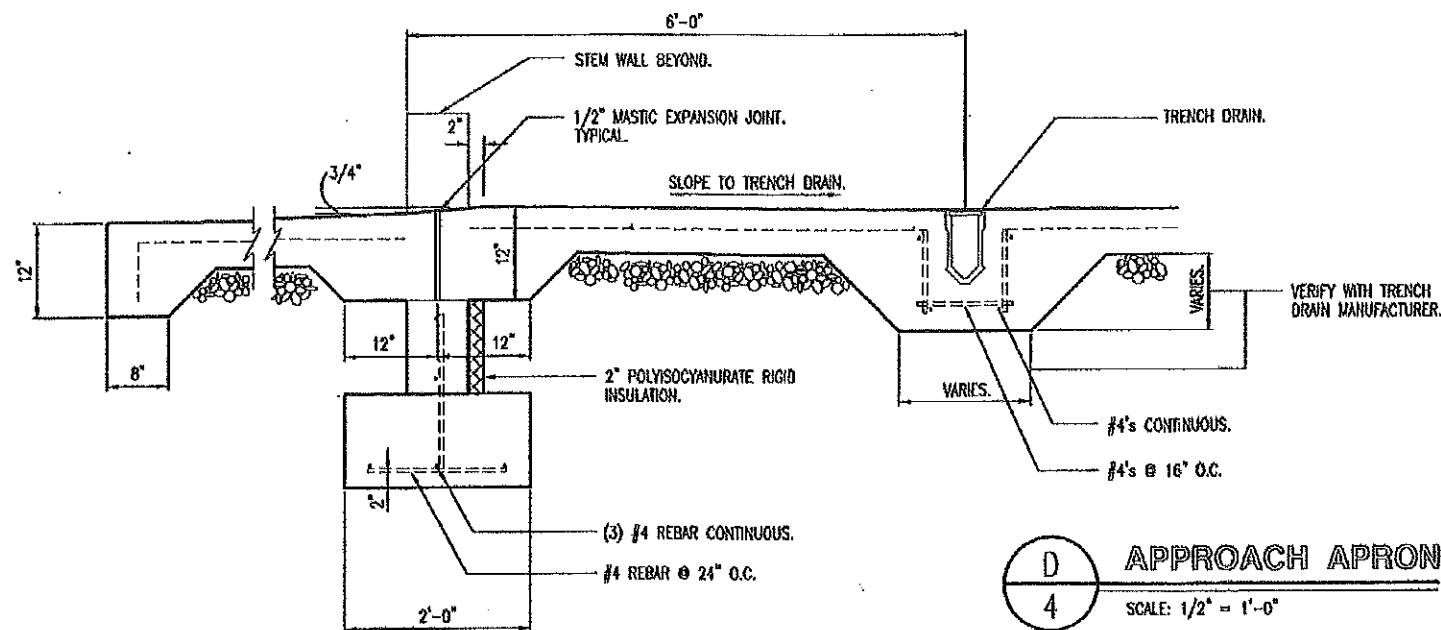


FOUNDATION PLAN

**MISSOURI DEPARTMENT
 OF TRANSPORTATION**
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
 9101 E 40th Terrace
 Jackson County - Kansas City District

DESIGN BY: LARRY CARYER
 DATE: 11-7-14
 Sheet
 3 of 20

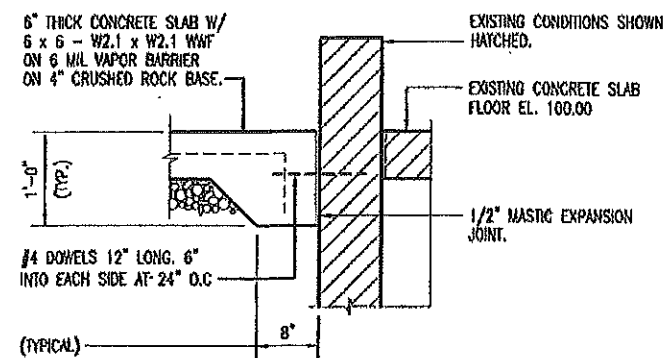


FOUNDATION DETAILS

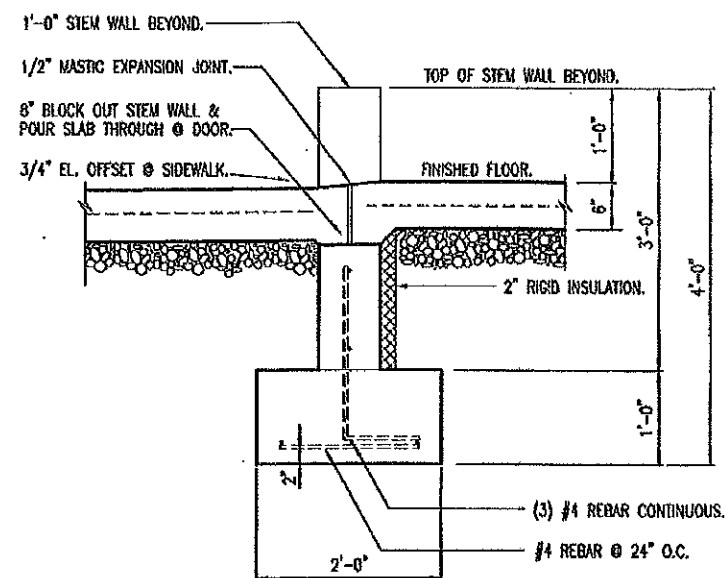
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

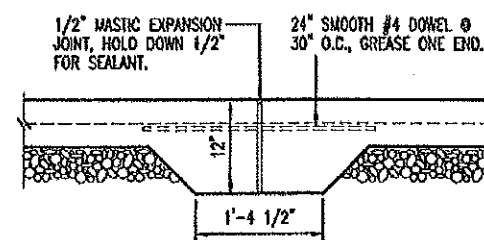
DESIGN BY: LARRY CARVER
DATE: 11-7-14
Sheet
4 of 20



AT EXISTING CONDITION
NEW FLOOR SLAB
SCALE: 1/2" = 1'-0"



A EXTERIOR STEM WALL @ DOOR
5 SCALE: 1/2" = 1'-0"



B EXPANSION JOINT
5 SCALE: 1/2" = 1'-0"

CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE I CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
6. FOUNDATION BEAMS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
7. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER, ASTM A615 GRADE 60.
8. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
9. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
10. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
11. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
12. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
13. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
14. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
15. PROVIDE PRE-CAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.
16. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.

FOUNDATION DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-7-14
Sheet
5 of 20

DATE: 11-7-14

Sheet 5 of 20

DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	LHR	A	I	C-10	8-1/2"	1
2	14'-0" x 14'-0" x 2"	OVERHEAD	D	-	A & B-10	-	-
3	14'-0" x 14'-0" x 2"	OVERHEAD	D	-	A & B-10	-	-
4	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	F-10	7-3/4"	2
5	3'-0" x 7'-0" x 1-3/4"	RH	C	I	D-10	5-3/4"	3
6	6'-0" x 7'-0"	-	-	II	E-10	5-3/4"	-
7	EXISTING TO REMAIN.	-	-	-	-	-	-
8	EXISTING TO REMAIN.	-	-	-	-	-	-
9	EXISTING TO REMAIN.	-	-	-	-	-	-

3'-0" x 7'-0" x 1-3/4"
HOLLOW METAL INSULATED
DOOR, PAINTED. REINFORCED
FOR CLOSER.

3'-0" x 7'-0" x 1-3/4"
HOLLOW METAL DOOR W/
1/4" TEMPERED GLASS,
SIZE 4" x 25". PAINTED.

TYPE A

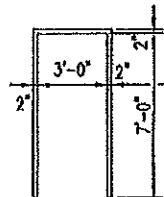


TYPE B

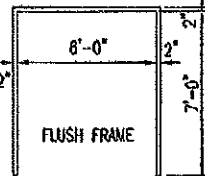
3'-0" x 7'-0" x 1-3/4"
HOLLOW METAL DOOR.



TYPE C



TYPE I



TYPE II

TYPE D

16'-0" x 14'-0" x 2"
2" THICK, R-17.5, INSULATED
PREFINISHED .016" METAL
GARAGE DOOR WITH FOUR
INSULATED GLASS VIEW
WINDOWS. 26 GA. STEEL
BACK COVER, WHITE BAKED
ON POLYESTER TOP COAT
PAINT ON BOTH SIDES.
(TYPICAL)

WINDOW SCHEDULE



6'-0" x 3'-0"
ALUMINUM DOUBLE
HORIZONTAL SLIDER
WITH SECURITY SCREEN.

SILL HEIGHT: MATCH
EXISTING.

EXISTING TO REMAIN.



NEW.



SEE DETAIL F-10.

FINISH SCHEDULE															
NO.	ROOM	FLOOR		WALLS						BASE		CEILING			
		EXISTING TO REMAIN.	CURE AND SEALER ON CONCRETE.	EXISTING TO REMAIN.	26 GA. INTERIOR PANELS	1/2" AC PLYWOOD ON NORTH WALL. SEE A - 12. PAINTED.	5/8" GREEN GYP. BD.	5/8" GYPSUM BOARD. PAINTED.	4" VINYL.	EXISTING TO REMAIN.	NONE	26 GA. CEILING PANELS.	EXISTING TO REMAIN.	ACOUSTICAL CEILING TILE @ 8'-0" A.F.F.	
100	EXISTING STRIPING BAYS	●		●						●			●		
101	MECHANICS BAYS		●		●	●					●	●			
102	OFFICE		●				●	●	●					●	
103	RR (REST ROOM)		●				●		●	●				●	
104	HALLWAY		●					●	●	●				●	
105	STORAGE		●		●						●	●			

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	DAYTON 1HL86 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	115	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C728 & 1WBW1 OR EQUAL .37 AMPS	---	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 225 OR EQUAL	186,750	NATURAL GAS	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	CEILING-CASSETTE INDOOR MULTI-ZONE HEAT-PUMP	MITSUBISHI SLZ-KA9NA OR EQUAL	COOL 8.4K HEAT 10.9K	ELECTRIC	208/230	FOUR-WAY 2'x2' UNIT WITH BUILT-IN DRAIN, LONG LIFE AIR FILTER, INDOOR GRILLE AND WIRELESS CONTROL KIT (MHK1).
E	MULTI-INDOOR INVERTER HEAT-PUMP	MITSUBISHI MXZ-382ANA-1 OR EQUAL	COOL 22K HEAT 25K	ELECTRIC	208/230	COMPACT SIDE DISCHARGE OUTDOOR UNIT WIRELESS REMOTE CONTROL, AUTOMATIC SPEED CONTROL, QUIET OPERATION.

GENERAL NOTES:

CONTRACTOR TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, RAKES, REGLETS AND ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

SCHEDULES

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

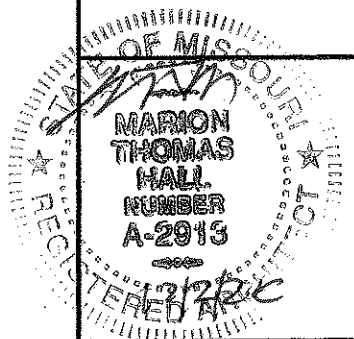
KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

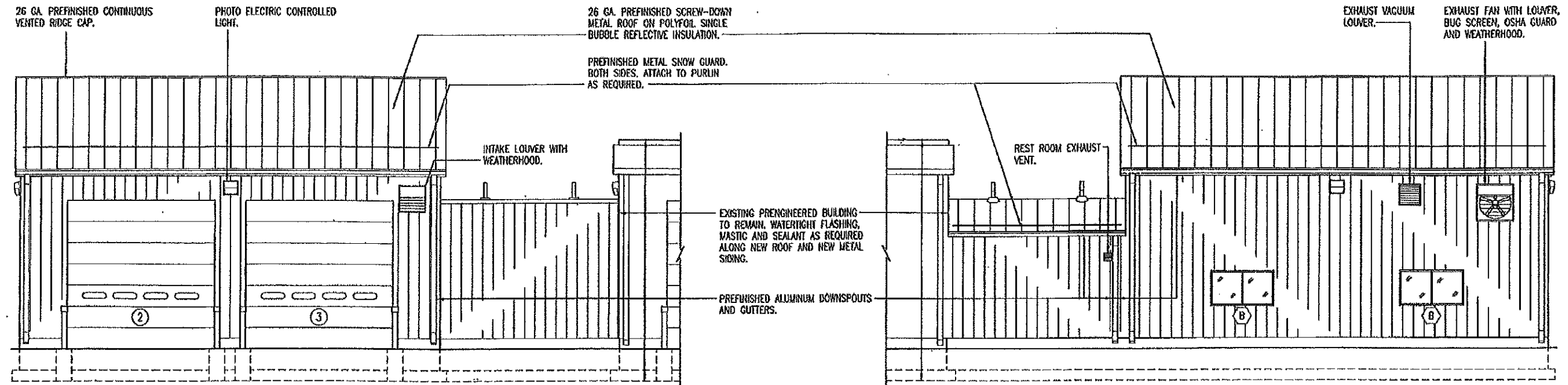
DESIGN BY: LARRY CARTER

DATE: 11-23-14

Sheet

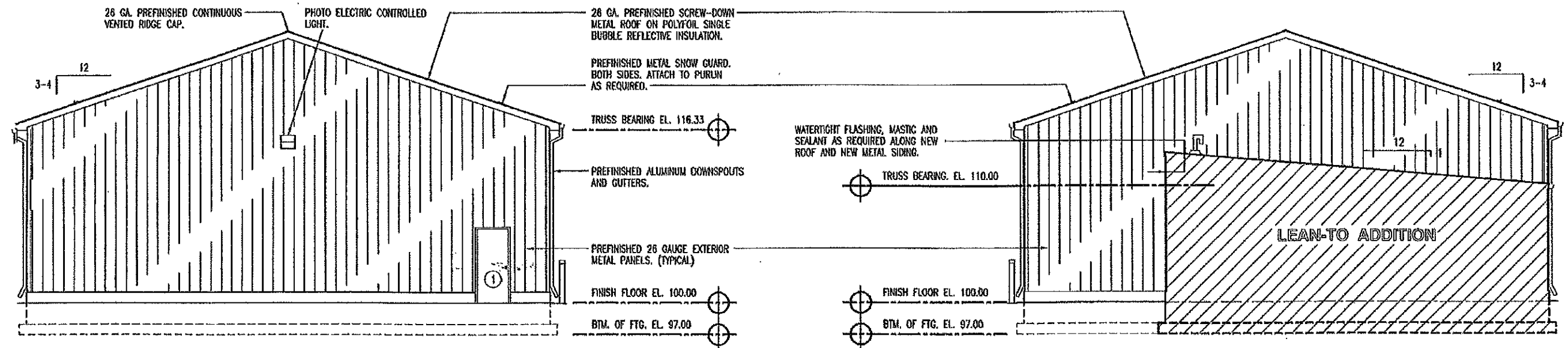
7 of 20





C EAST ELEVATION
SCALE: 3/32" = 1'-0"

D WEST ELEVATION
SCALE: 3/32" = 1'-0"



A SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

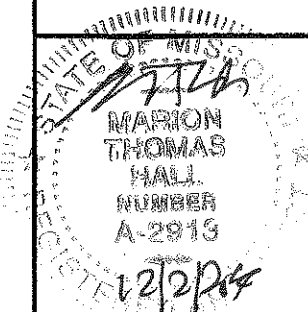
B NORTH ELEVATION
SCALE: 3/32" = 1'-0"

ELEVATIONS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
8 of 20



26 GA. PREFINISHED SCREW-DOWN
METAL ROOF ON POLYFOIL SINGLE
BUBBLE REFLECTIVE INSULATION ON
2 x 4 PURLINS @ 24" O.C. ON
LEAN-TO TRUSSES AT 24" O.C.
BUBBLE REFLECTIVE INSULATION.

RAT GUARD @ ENDS. (TYPICAL)

PREFINISHED 5" SEAMLESS ALUM.
GUTTERS WITH DOWNSPOUTS.

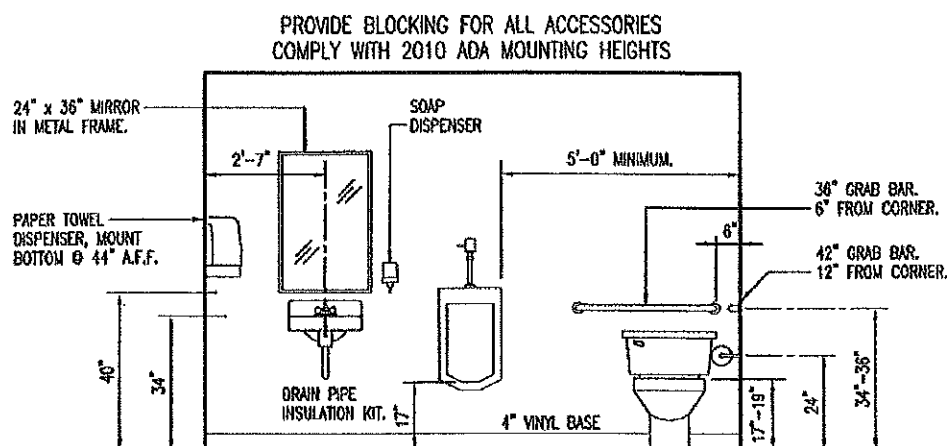
26 GA. PREFINISHED FASCIA
TRIM.

HURRICANE ANCHORS AT ENDS
OF EACH TRUSS.

2 x 4 GIRTS @ 36" O.C.
HORIZONTALLY.

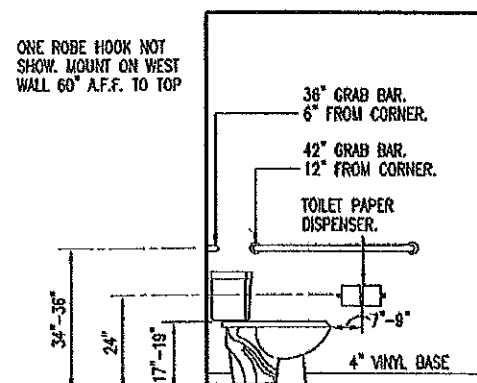
26 GAUGE PREFINISHED STEEL
WALL PANELS.

D BACK TRIM
SCALE: 1-1/2" = 1'-0"



A REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"

PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



B REST ROOM ELEVATION
SCALE: 1/4" = 1'-0"

26 GA. PREFINISHED SCREW-DOWN
METAL ROOF ON POLYFOIL SINGLE
BUBBLE REFLECTIVE INSULATION ON
2 x 4 PURLINS @ 24" O.C. ON
LEAN-TO TRUSSES AT 24" O.C.
BUBBLE REFLECTIVE INSULATION.

RAT GUARD @ ENDS. (TYPICAL)

PREFINISHED 26 GAUGE CLOSURE
TRIM.

PREFINISHED 26 GAUGE RAKE TRIM.

26 GAUGE PREFINISHED STEEL
WALL PANELS.

C RAKE TRIM
SCALE: 1-1/2" = 1'-0"

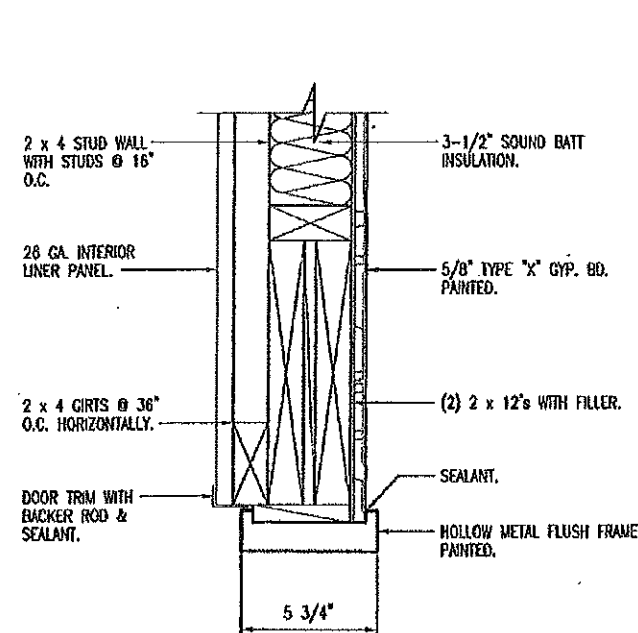
INTERIOR ELEVATIONS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

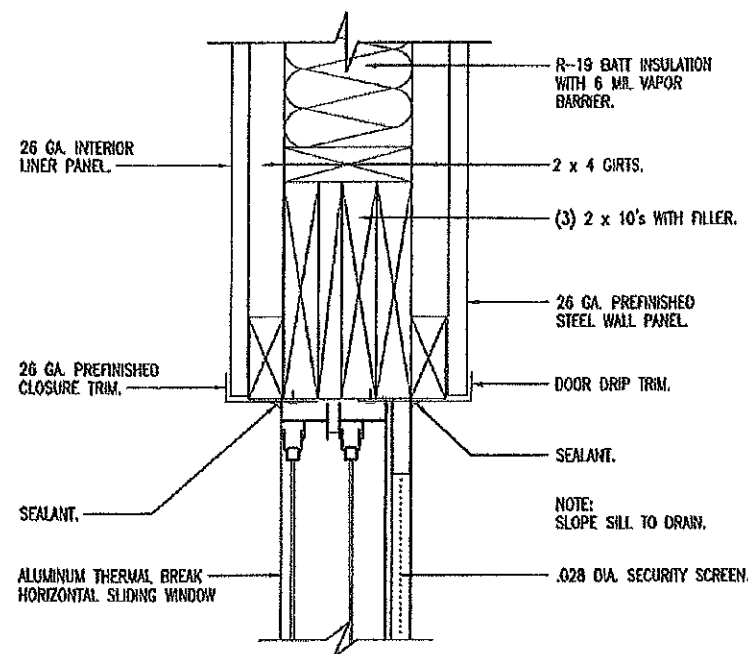
KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
9 of 20

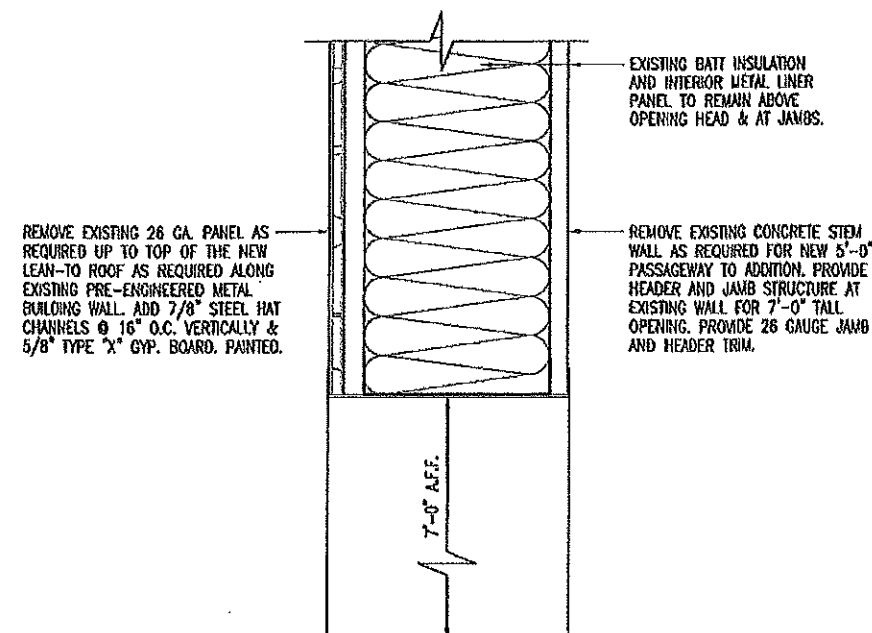
STATE OF MISSOURI
MARION
THOMAS
HALL
NUMBER
A-2013
12/2/2014



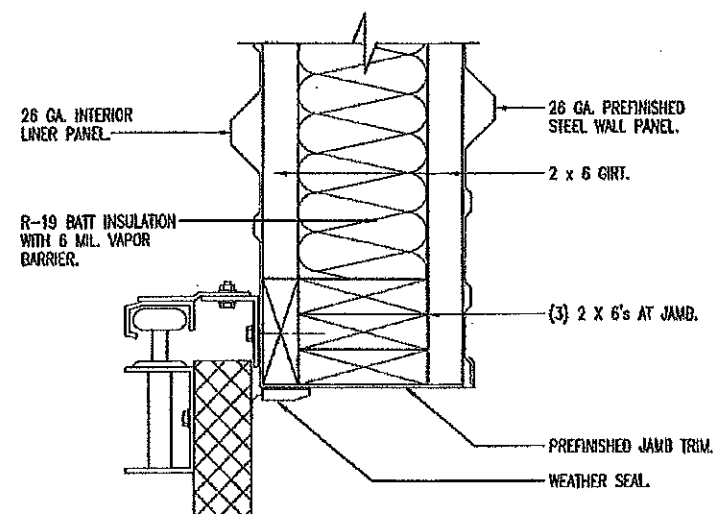
E DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"



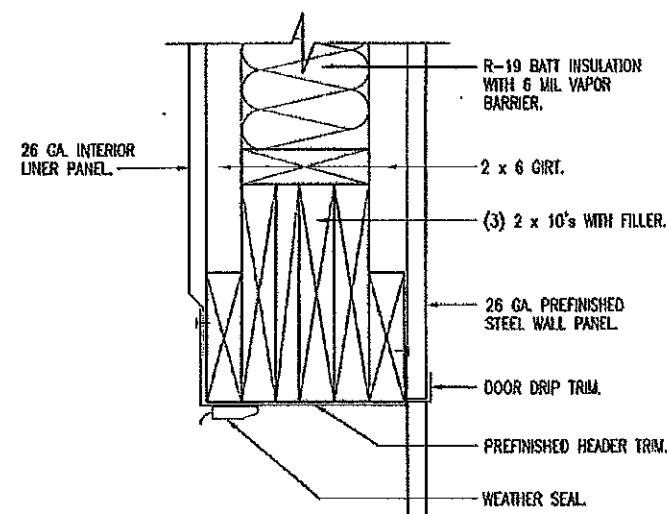
F JAMB & SILL SIMILAR WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



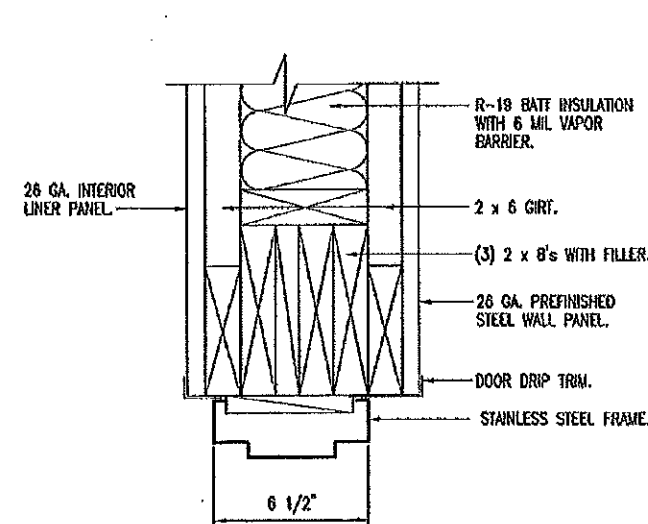
G JAMB SIMILAR OPENING HEAD
SCALE: 1-1/2" = 1'-0"



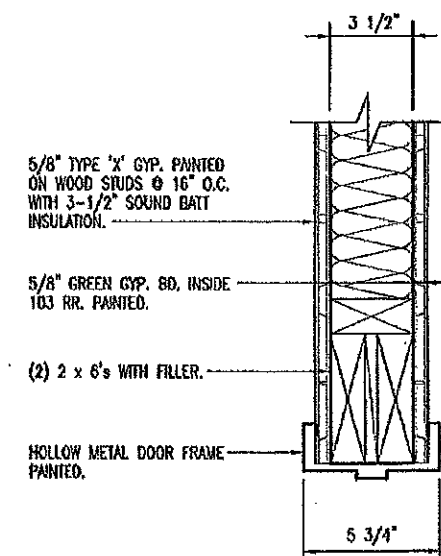
A GARAGE DOOR JAMB
SCALE: 1-1/2" = 1'-0"



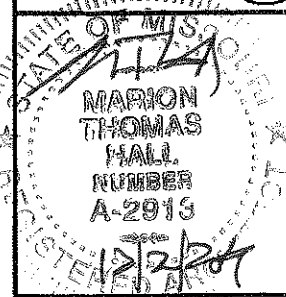
B GARAGE DOOR HEAD
SCALE: 1-1/2" = 1'-0"



C DOOR HEADER/JAMB
SCALE: 1-1/2" = 1'-0"



D JAMB SIMILAR DOOR HEAD
SCALE: 1-1/2" = 1'-0"

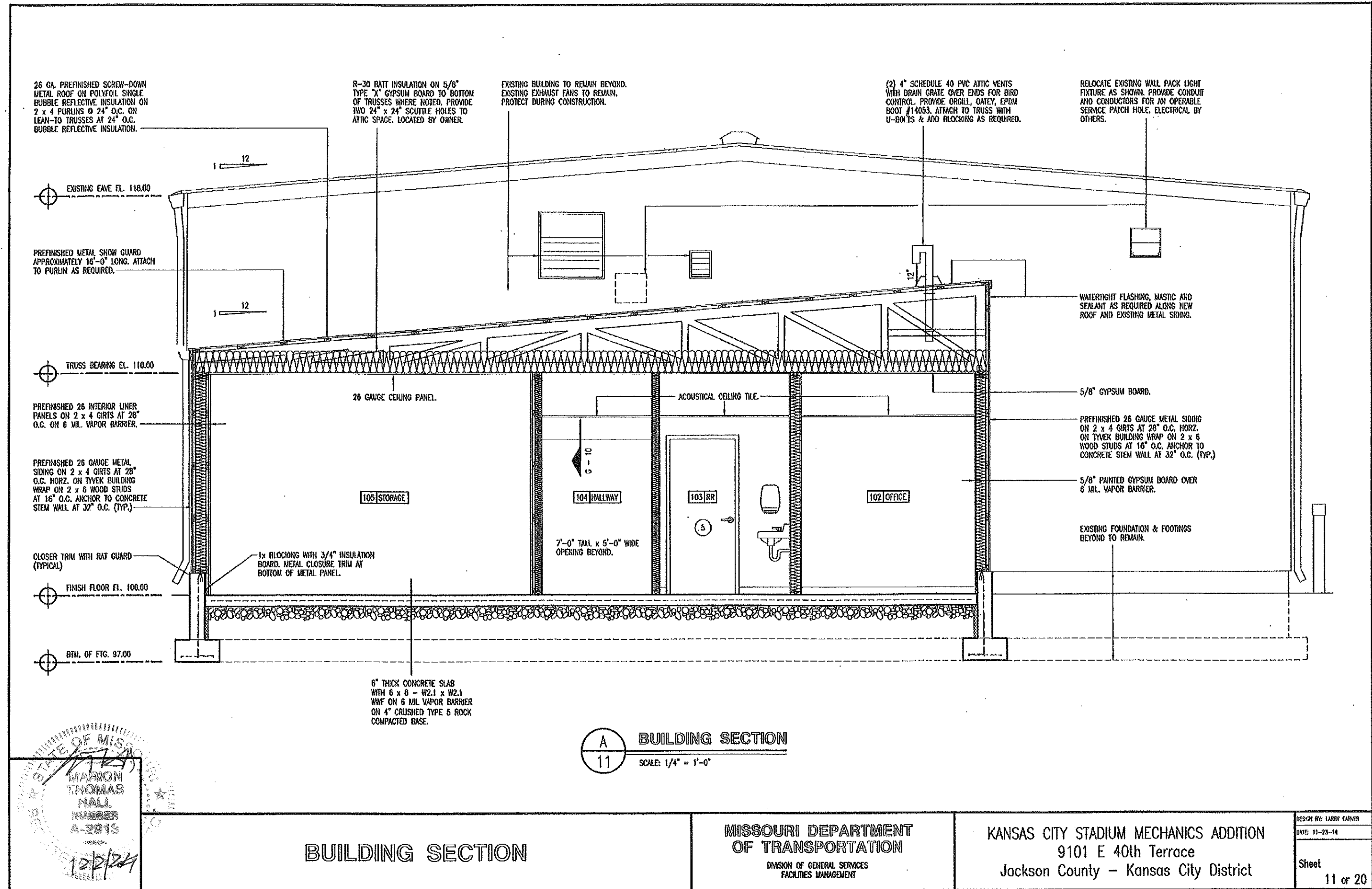


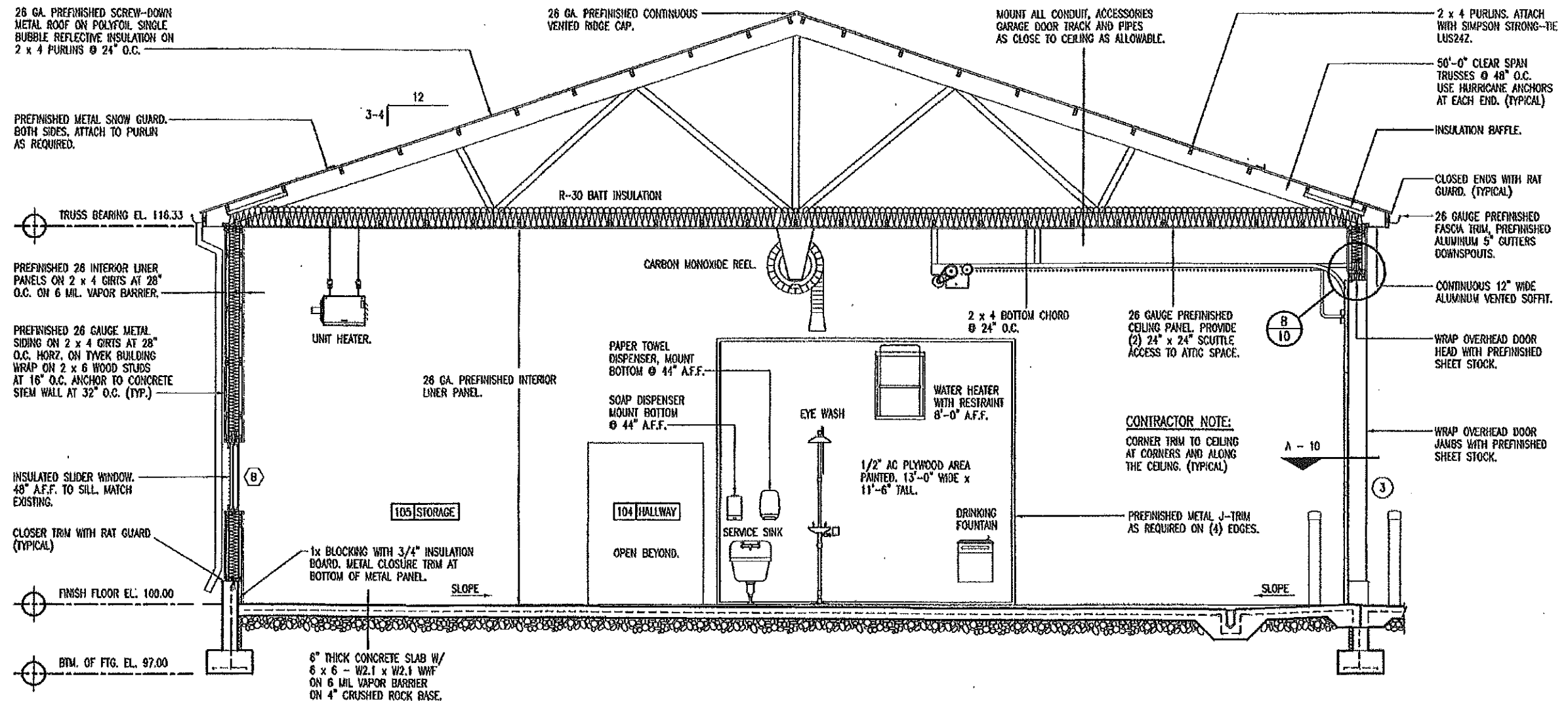
HEAD & JAMB DETAILS

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARMER
DATE: 11-23-14
Sheet
10 of 20





A 12 BUILDING SECTION
SCALE: 3/16" = 1'-0"

STATE OF MISSOURI
MARION THOMAS
HALL
NUMBER A-2913
12/21/24

BUILDING SECTION

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
12 of 20

REMOVE EXISTING 26 GA. PANEL AS REQUIRED AND ADD CLOSURE TRIM AS REQUIRED. FLASHING; PROVIDE TRANSITION SUPPORT ANGLE WITH TRANSITION TRIM AND CONTINUOUS TERMINATION ZEE AT EXISTING WALL.

26 GA. PREFINISHED SCREW-DOWN METAL ROOF ON POLYFOIL SINGLE BUBBLE REFLECTIVE INSULATION ON 2 x 4 PURLINS @ 24" O.C. ON LEAN-TO TRUSSES AT 24" O.C. BUBBLE REFLECTIVE INSULATION.

R-30 BATT INSULATION.

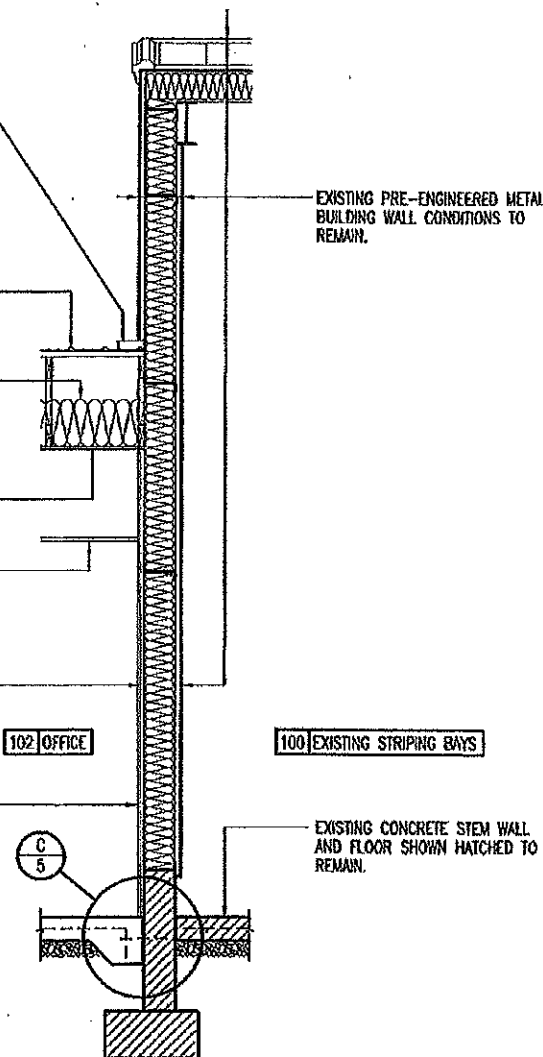
5/8" GYPSUM BOARD.

ACOUSTICAL CEILING TILE.

REMOVE EXISTING 26 GA. PANEL AS REQUIRED UP TO TOP OF THE NEW LEAN-TO ROOF AS REQUIRED ALONG EXISTING PRE-ENGINEERED METAL BUILDING WALL. ADD 7/8" STEEL HAT CHANNELS @ 16" O.C. VERTICALLY.

5/8" TYPE "X" GYPSUM BOARD. PAINTED.

TYPICAL ALONG EXISTING WALL.



A WALL SECTION
13 SCALE: 1/4" = 1'-0"

26 GA. PREFINISHED SCREW-DOWN METAL ROOF ON POLYFOIL SINGLE BUBBLE REFLECTIVE INSULATION ON 2 x 4 PURLINS @ 24" O.C. ON ENGINEERED TRUSSES AT 48" O.C. BUBBLE REFLECTIVE INSULATION.

26 GA. PREFINISHED RAKE TRIM ON CONTINUOUS 2x BLOCKING.

R-30 BATT INSULATION.

TRUSS BEARING EL. 118.33

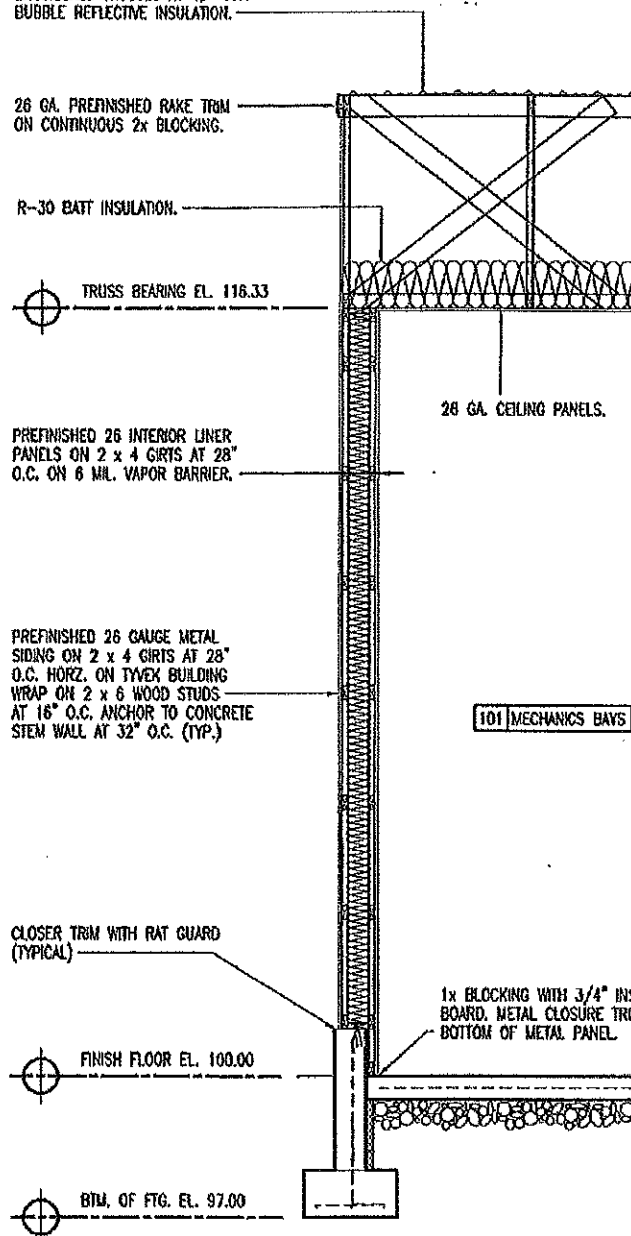
PREFINISHED 26 INTERIOR LINER PANELS ON 2 x 4 GIRTS AT 28" O.C. ON 6 MIL. VAPOR BARRIER.

PREFINISHED 26 GAUGE METAL SIDING ON 2 x 4 GIRTS AT 28" O.C. HORIZ. ON TYVEK BUILDING WRAP ON 2 x 6 WOOD STUDS AT 16" O.C. ANCHOR TO CONCRETE STEM WALL AT 32" O.C. (TYP.)

CLOSER TRIM WITH RAT GUARD (TYPICAL)

FINISH FLOOR EL. 100.00

BTM. OF FTG. EL. 97.00



B WALL SECTION
13 SCALE: 1/4" = 1'-0"

REMOVE EXISTING 26 GA. PANEL AS REQUIRED AND ADD CLOSURE TRIM AS REQUIRED. FLASHING; PROVIDE TRANSITION SUPPORT ANGLE WITH TRANSITION TRIM AND CONTINUOUS TERMINATION ZEE AT EXISTING WALL.

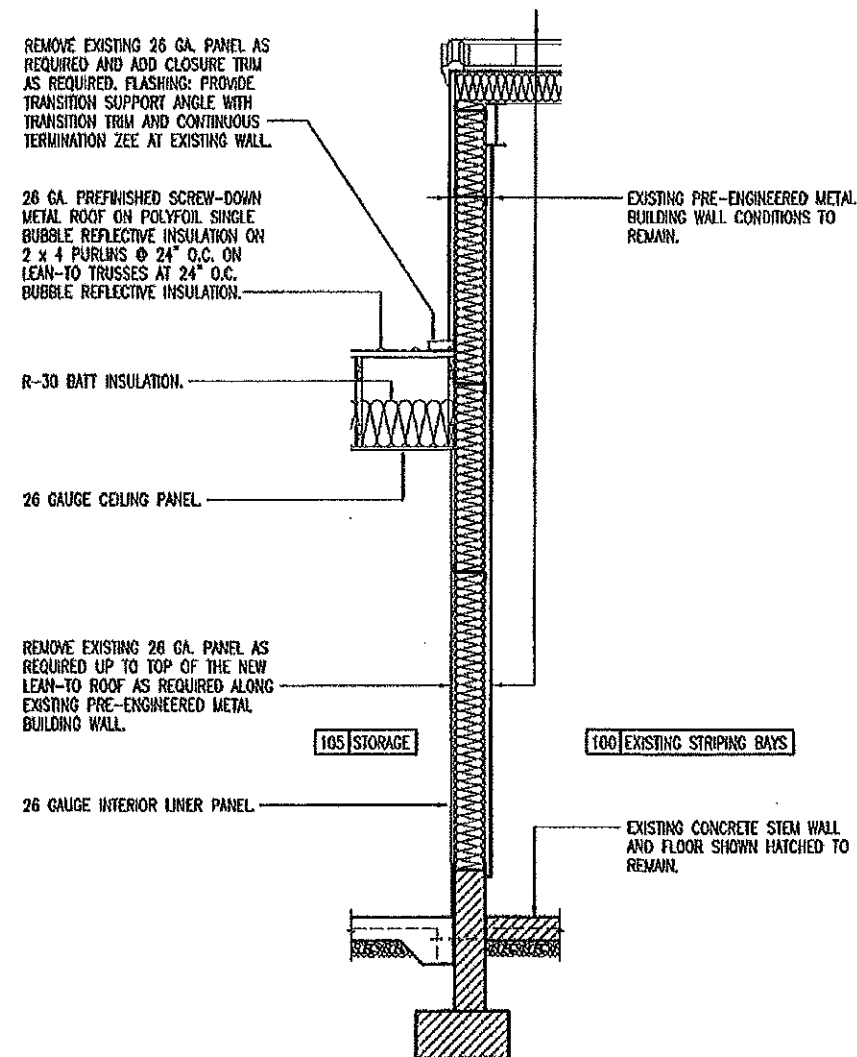
26 GA. PREFINISHED SCREW-DOWN METAL ROOF ON POLYFOIL SINGLE BUBBLE REFLECTIVE INSULATION ON 2 x 4 PURLINS @ 24" O.C. ON LEAN-TO TRUSSES AT 24" O.C. BUBBLE REFLECTIVE INSULATION.

R-30 BATT INSULATION.

26 GAUGE CEILING PANEL.

REMOVE EXISTING 26 GA. PANEL AS REQUIRED UP TO TOP OF THE NEW LEAN-TO ROOF AS REQUIRED ALONG EXISTING PRE-ENGINEERED METAL BUILDING WALL.

26 GAUGE INTERIOR LINER PANEL.



C WALL SECTION
13 SCALE: 1/4" = 1'-0"

WALL SECTIONS

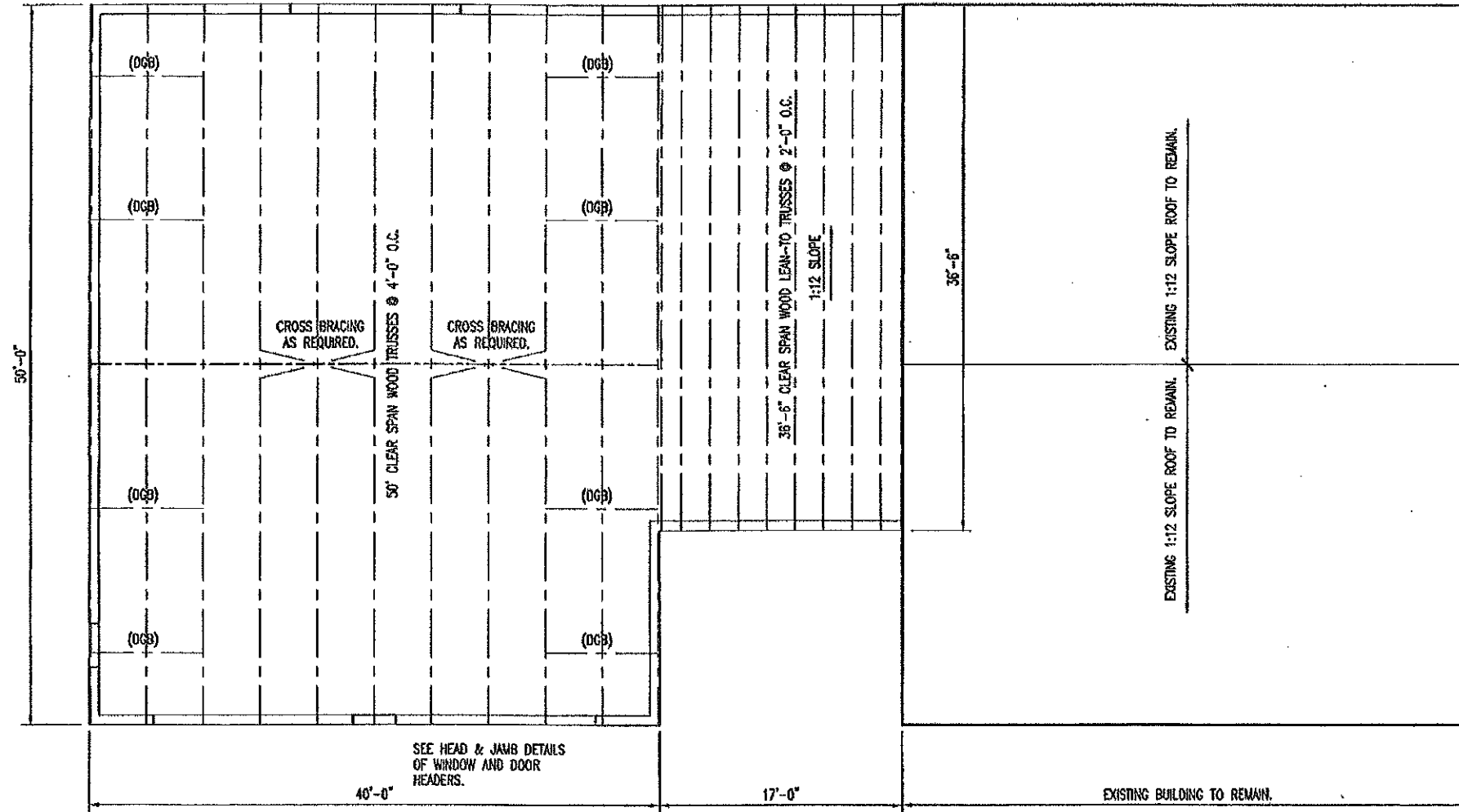
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARNER
DATE: 11-23-14
Sheet
13 of 20

(DGB) DIAGONAL GABLE
BRACING AS REQUIRED.

SEE HEAD & JAMB DETAILS
OF WINDOW AND DOOR
HEADERS.



SEE HEAD & JAMB DETAILS
OF WINDOW AND DOOR
HEADERS.

A
14

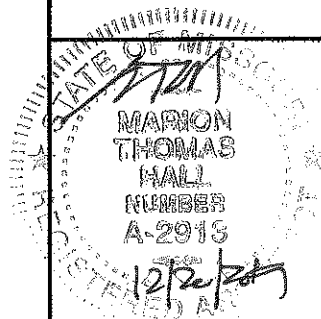
ROOF FRAMING PLAN

SCALE: 3/32" = 1'-0"



ROOF FRAMING NOTES

- DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:
ROOF LIVE LOAD 25 PSF
ROOF DEAD LOAD 4 PSF
BOTTOM CORD DEAD LOAD 5 PSF
EARTHQUAKE ZONE 1, LATEST EDITION IBC
WIND 90 MPH, EXPOSURE B
DEFLECTION L/360
SPACING 24" O.C. MAXIMUM
- TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.
- ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG-TIE LUS24Z ANCHORS.

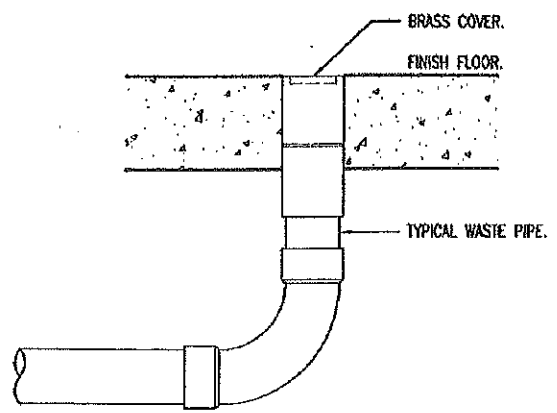
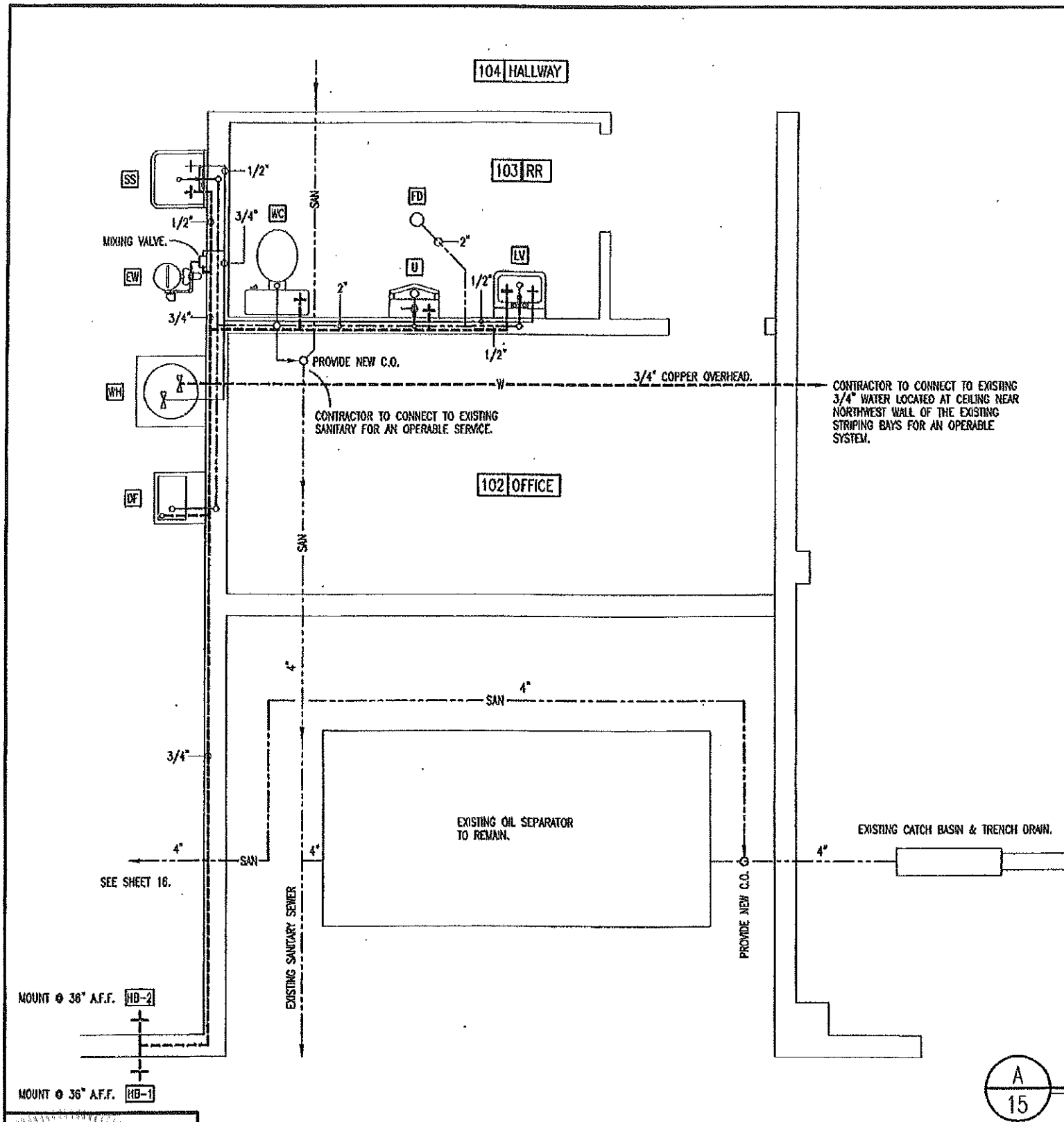


ROOF FRAMING PLAN

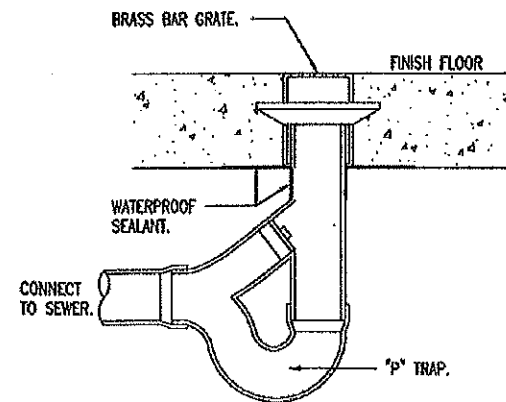
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARRER
DATE: 11-25-14
Sheet
14 of 20



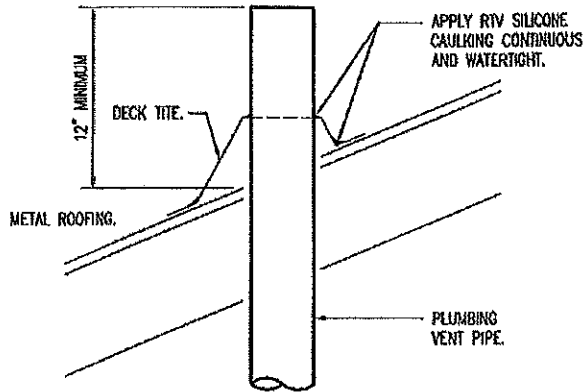
FLOOR CLEANOUT DETAIL
SCALE: NONE



FLOOR DRAIN DETAIL
SCALE: NONE

PLUMBING NOTES

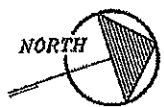
1. DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
3. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
4. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
5. PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE.
6. ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
7. CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE, SECURE AS REQUIRED.
8. PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
9. PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
10. SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.



VENT THROUGH ROOF DETAIL
SCALE: NONE

SEE SHEET 16 FOR PLUMBING
FIXTURE SCHEDULE & LEGEND.

REST ROOM
PLUMBING PLAN
SCALE: 1/4" = 1'-0"



REST ROOM PLUMBING PLAN

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARMER
DATE: 11-23-14
Sheet
15 of 20

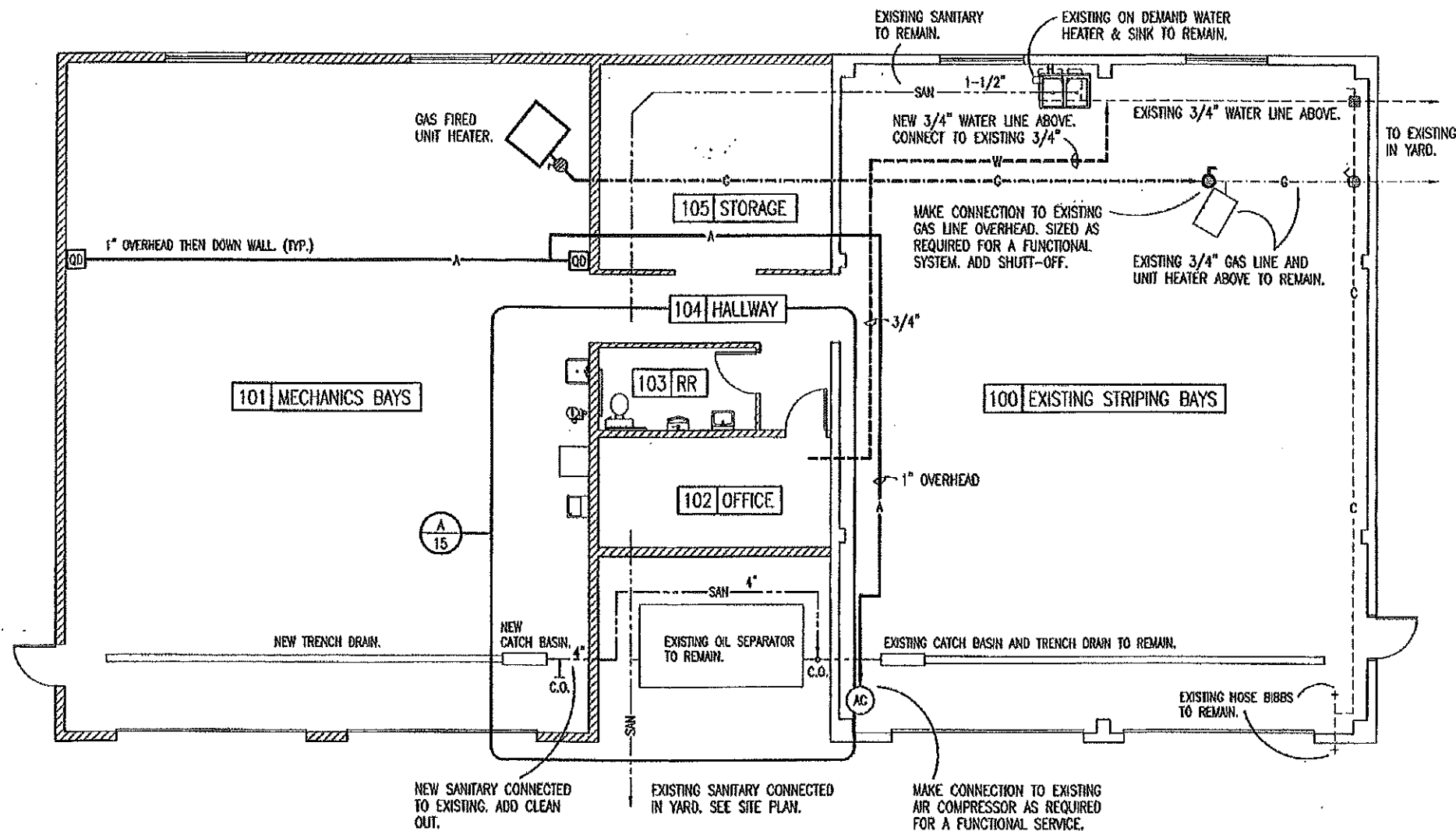
STATE OF MISSOURI
MARION THOMAS
HALL
NUMBER
A-2918
1-21-2014

EXISTING LEGEND

HOT WATER	----- H -----
WATER	----- W -----
SANITARY SEWER	----- SAN -----
GAS	----- G -----
GAS VALVE	⊗

NEW LEGEND

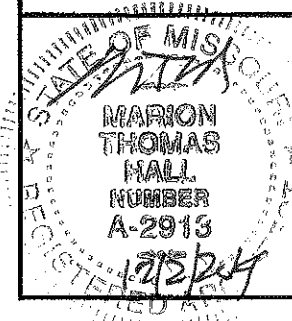
HOT WATER	----- H -----
WATER	----- W -----
SANITARY SEWER	----- SAN -----
COMPRESSED AIR	----- A -----
GAS	----- G -----
CLEANOUT	C.O.
GAS VALVE	⊗



PLUMBING PLAN
SCALE: 3/32" = 1'-0"



PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
WC	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT, PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH U.D. (WHITE)
U	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 GALLON URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
LV	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
SS	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO AMERICAN STANDARD #7692.049, 22" x 18" ENAMELED, CAST IRON "LAKEWELL" SERVICE SINK W/ 8340.242 HERITAGE LEVEL HANDLE FAUCET, AND 7798.176 P-TRAP.
EW	EMERGENCY EYE WASH	3/4"	3/4"			EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE.
WH	WATER HEATER	3/4"	3/4"			A.O. SMITH MODEL NUMBER ECS-30 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL ON WATTS WALL MOUNT RESTRAINT SYSTEM WH-28.
HB-1	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER. (N.I.C.)
HB-2	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 28 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
FD	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 8-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE, 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
TD	TRENCH DRAIN			4"		EQUAL TO ZURN Z886 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH LOCK DOWN CAST IRON GRATE "CLASS C".
CB	CATCH BASIN			4"		EQUAL TO ZURN Z887-6x20 CATCH BASIN, WITH STAINLESS STEEL TRASH BUCKET AND LOCK DOWN CAST IRON GRATE "CLASS C".
CO	CLEAN OUT					BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN.
QD	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS.

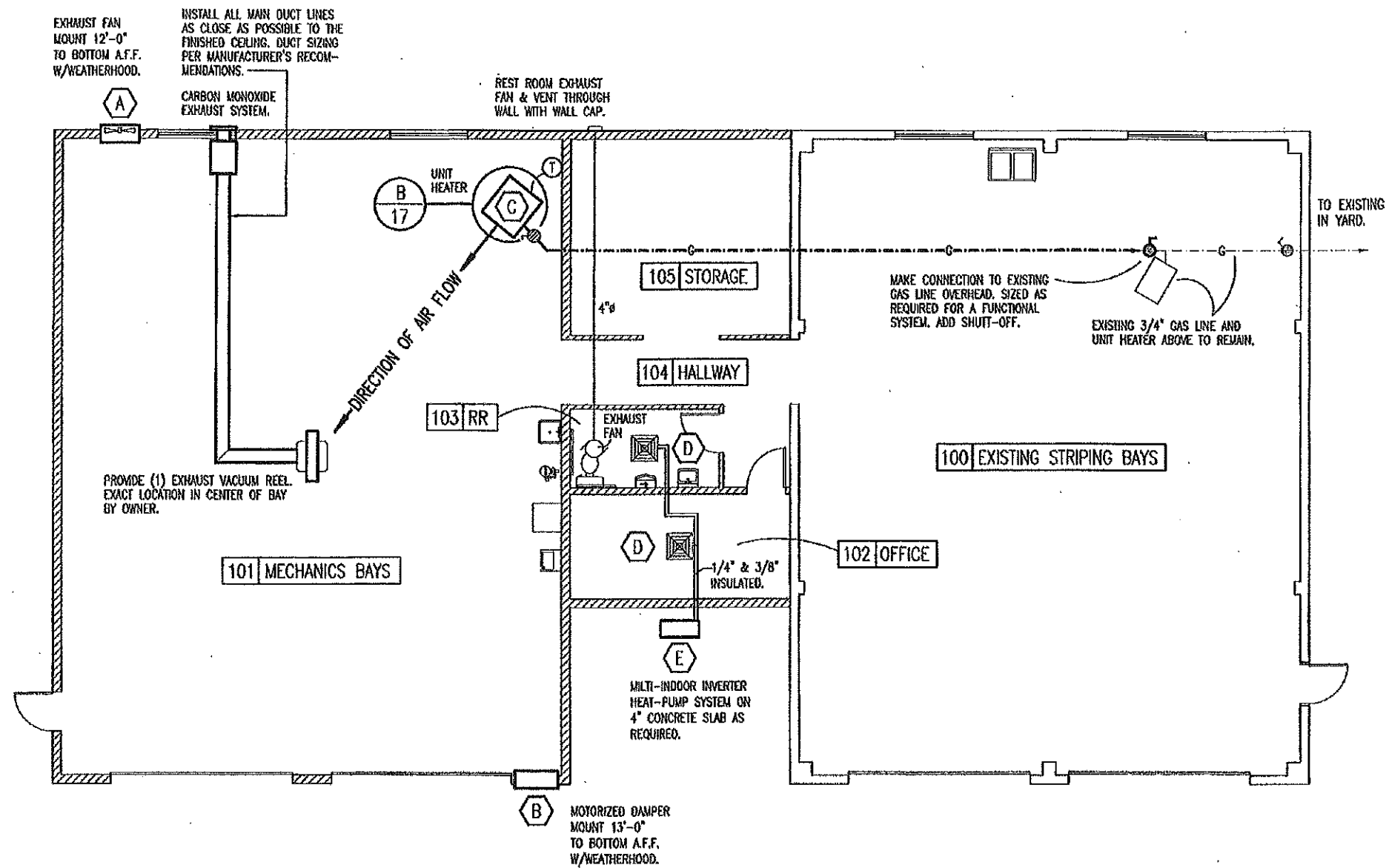


PLUMBING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
16 of 20



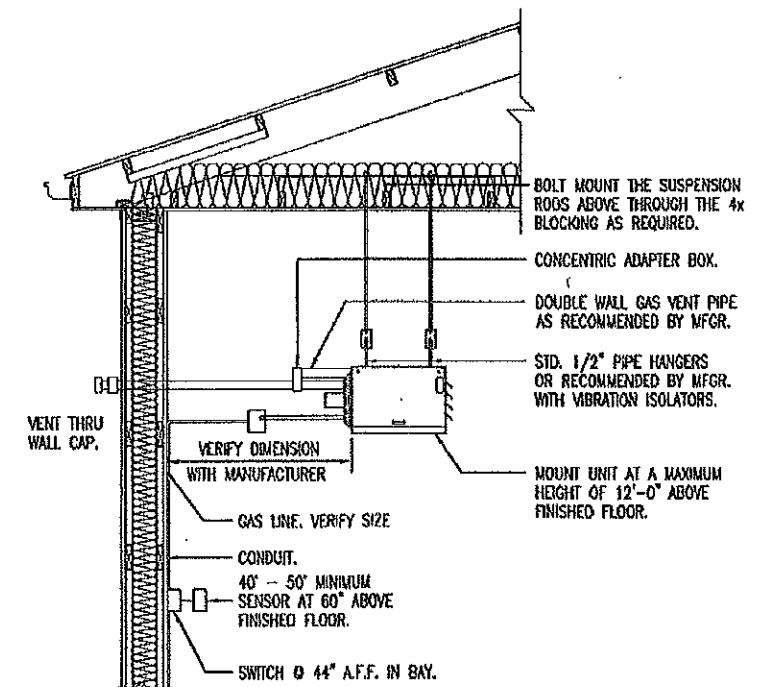
A
17
MECHANICAL PLAN
SCALE: 3/32" = 1'-0"



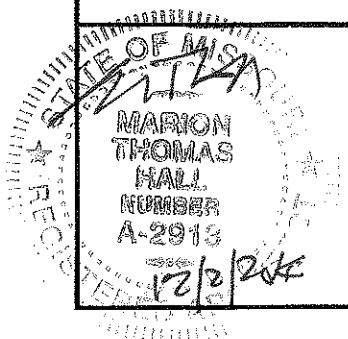
SEE SHEET 7 FOR HVAC
FIXTURE SCHEDULE.

MECHANICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
- PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
- PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.



B
17
UNIT HEATER INSTALLATION
NOT TO SCALE

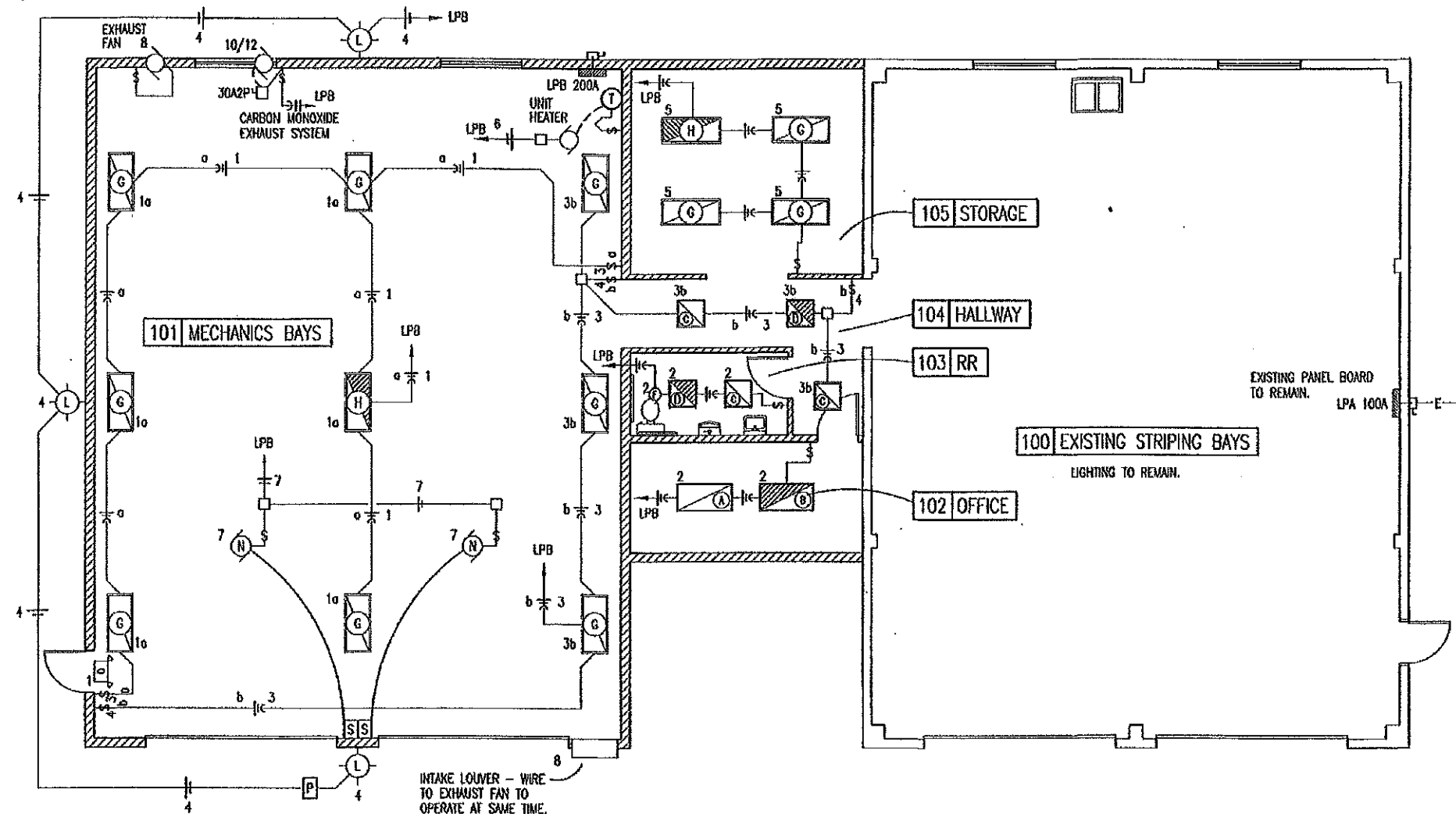


MECHANICAL PLAN

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARVER
DATE: 11-23-14
Sheet
17 of 20



LEGEND

- ⊕ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL H8L7423 COVER.
- ⊕ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- ⊕ 3-WAY SWITCH, SURFACE MOUNTED @ 48" A.F.F.
- ⊕ 4-WAY SWITCH, SURFACE MOUNTED @ 48" A.F.F.
- ⊕ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊕ DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ⊕ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊕ VOICE AND DATA OUTLET SURFACE MOUNTED IN UNFINISHED AREAS @ 42" A.F.F.
- ⊕ WELDER RECEPTACLE SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ⊕ NO FUSED DISCONNECT SWITCH.
- ⊕ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⊕ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
- ⊕ JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

SEE ELECTRICAL SCHEDULE
& NOTES SHEET 20.

A
18 **LIGHTING PLAN**
SCALE: 3/32" = 1'-0"



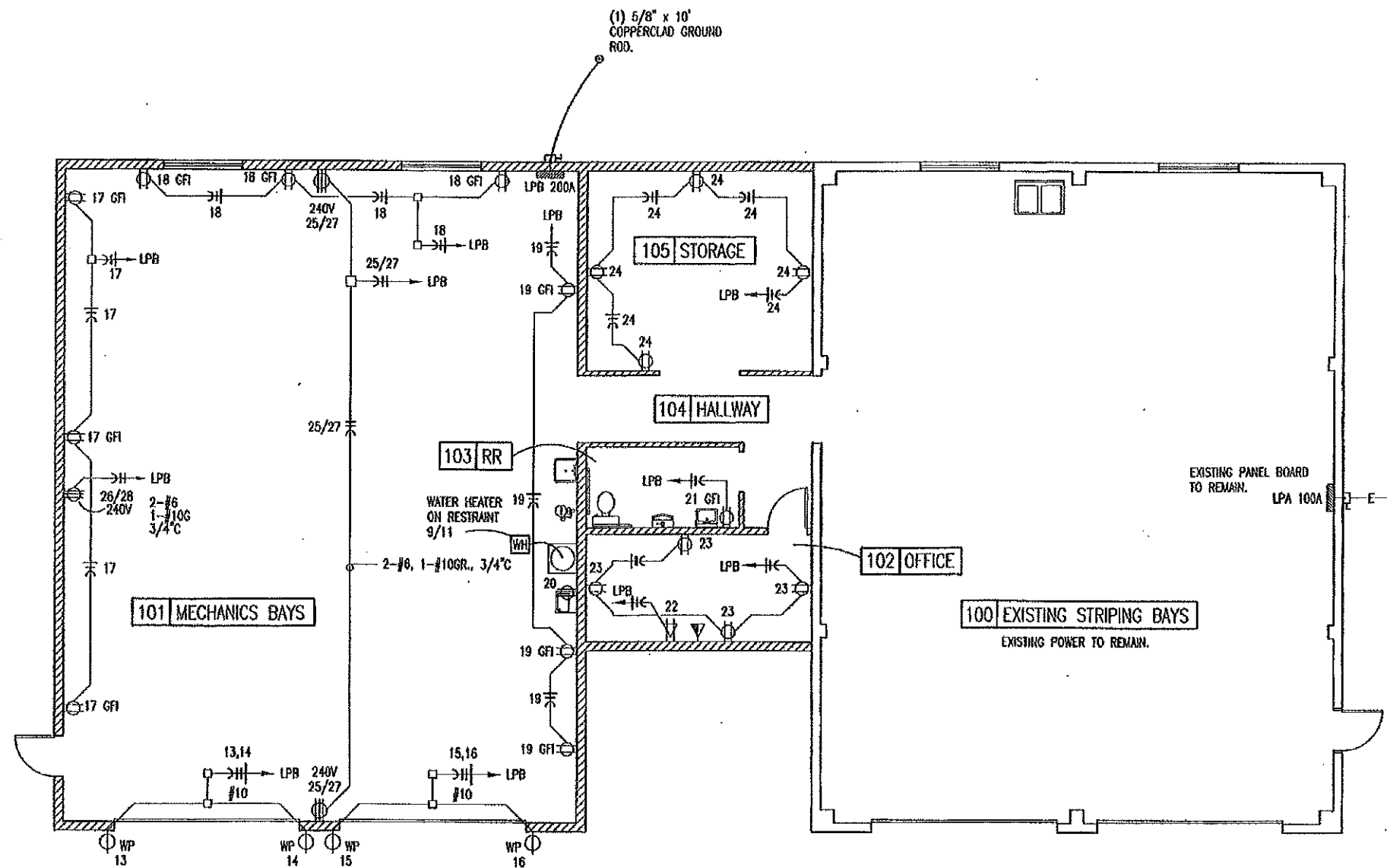
MARION
THOMAS
HALL
NUMBER
A-2913

LIGHTING PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

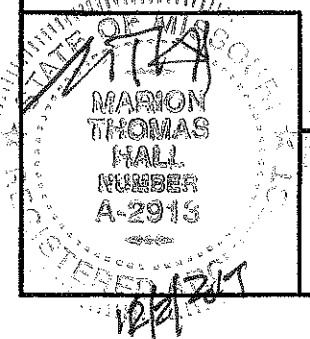
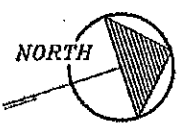
DESIGN BY LARRY CARRER
DATE: 11-23-14
Sheet
18 of 20



ELECTRICAL LEGEND
SHEET 19.

SEE ELECTRICAL SCHEDULE
& NOTES SHEET 20.

A
19
POWER PLAN
SCALE: 3/32" = 1'-0"



POWER PLAN

**MISSOURI DEPARTMENT
OF TRANSPORTATION**
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY DAVEN
DATE: 11-23-14
Sheet
19 of 20

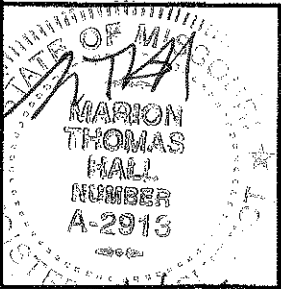
ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE W	MNT	REMARKS
WILLIAMS A	50G-S24-328-TSS- RPC12125-EB3-UNV	3	FLUORESCENT 28	CLG	24" x 48" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS B	50G-S24-432-RA12125- EM7-EB4-120	4	FLUORESCENT 32	CLG	24" x 48" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY.
WILLIAMS C	50G-S22-314-TSS- RPC12125-EB2/1-UNV	3	FLUORESCENT 14	CLG	24" x 24" STATIC TROFFER FIXTURE, WITH FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, AND ELECTRONIC BALLAST.
WILLIAMS D	50G-S22-417-RA12125- EM7-EB4-120	4	FLUORESCENT 32	CLG	24" x 24" STATIC TROFFER FIXTURE, W/ FULL DOOR FRAME, NO REVEAL, WHITE ALUMINUM, ELECTRONIC BALLAST & EMERGENCY BATTERY.
BROAN E	GRANGER #4C772			CLG	80 CFM CEILING MOUNT BATHROOM VENTILATOR.
WILLIAMS G	GL-4-454TSH-HUB3/4" EB4-120	4	FLUORESCENT 54	CLG	14" x 48" LOW PROFILE FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR & ELECTRONIC BALLAST.
WILLIAMS H	GL-4-454TSH-HUB3/4" EM700-EB4-120	4	FLUORESCENT 54	CLG	14" x 48" FIXTURE, W/ WHITE ALUMINUM HOUSING, HIGH SPECULAR ALUMINUM REFLECTOR ELECTRONIC BALLAST & EMERGENCY BATTERY.
ATLAS L	WLM43LED	1	LED 43	WALL	EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. CLARE FREE LENS.
H M	OVERHEAD DOOR OPERATOR			WALL	115V, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA O	LHQW P W3 R N			WALL	QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK P	2801			WALL	120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
S	OVERHEAD DOOR CONTROL			WALL	THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.					

SERVICE PANEL LPB									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NOOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC			CONNECTED LOAD A PHASE 19105 VA B PHASE 21080 VA TOTAL 40185 VA 167 A			
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE		CIR
1	LIGHTS - 101 MECHANICS	1307	20A1P	A	20A1P	382	LIGHTS - RR & OFFICE		2
3	LIGHTS - 101 MECHANICS	860	20A1P	B	20A1P	129	LIGHTS - EXTERIOR		4
5	LIGHTS - 105 STORAGE	864	20A1P	A	20A1P	456	UNIT HEATER - 101 MECH.		6
7	GARAGE DOOR OPENERS	2162	30A1P	B	20A1P	813	EXHAUST FAN & LOUVER		8
9	WATER HEATER	3000	30A2P	A	30A2P	828	CARBON MONOXIDE		10
11		3000		B		828			12
13	EXTERIOR - RECEPTACLE	1000	30A1P	A	30A1P	828	EXTERIOR - RECEPTACLE		14
15	EXTERIOR - RECEPTACLE	1000	30A1P	B	30A1P	828	EXTERIOR - RECEPTACLE		16
17	101 - RECEPTACLE	540	20A1P	A	20A1P	540	101 - RECEPTACLE		18
19	101 - RECEPTACLE	540	20A1P	B	20A1P	480	101 - DRINKING FOUNTAIN		20
21	GFI RECEPTACLE - 103 RR	180	20A1P	A	20A1P	180	102 - OFFICE		22
23	102 - OFFICE	720	20A1P	B	20A1P	720	105 - STORAGE		24
25	101 - WELDER MECHANICS	4500	50A2P	A	50A2P	4500	101 - WELDER MECHANICS		26
27		4500		B		4500			28
29				A					30
31				B					32
33				A					34
35				B					36
37				A					38
39				B					40
41				A					42

Ⓢ CIRCUIT BREAKER SHALL BE GFI RATED

ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- REST ROOM EXHAUST FAN IS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- SEE HVAC SCHEDULE FOR EQUIPMENT TO BE HARD WIRED, PROVIDE SERVICE DISCONNECT AT EACH.
- ALL RECEPTACLES IN GARAGE AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED, ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.



ELECTRICAL PANEL & NOTES

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

KANSAS CITY STADIUM MECHANICS ADDITION
9101 E 40th Terrace
Jackson County - Kansas City District

DESIGN BY: LARRY CARRER
DATE: 11-23-14
Sheet
20 of 20