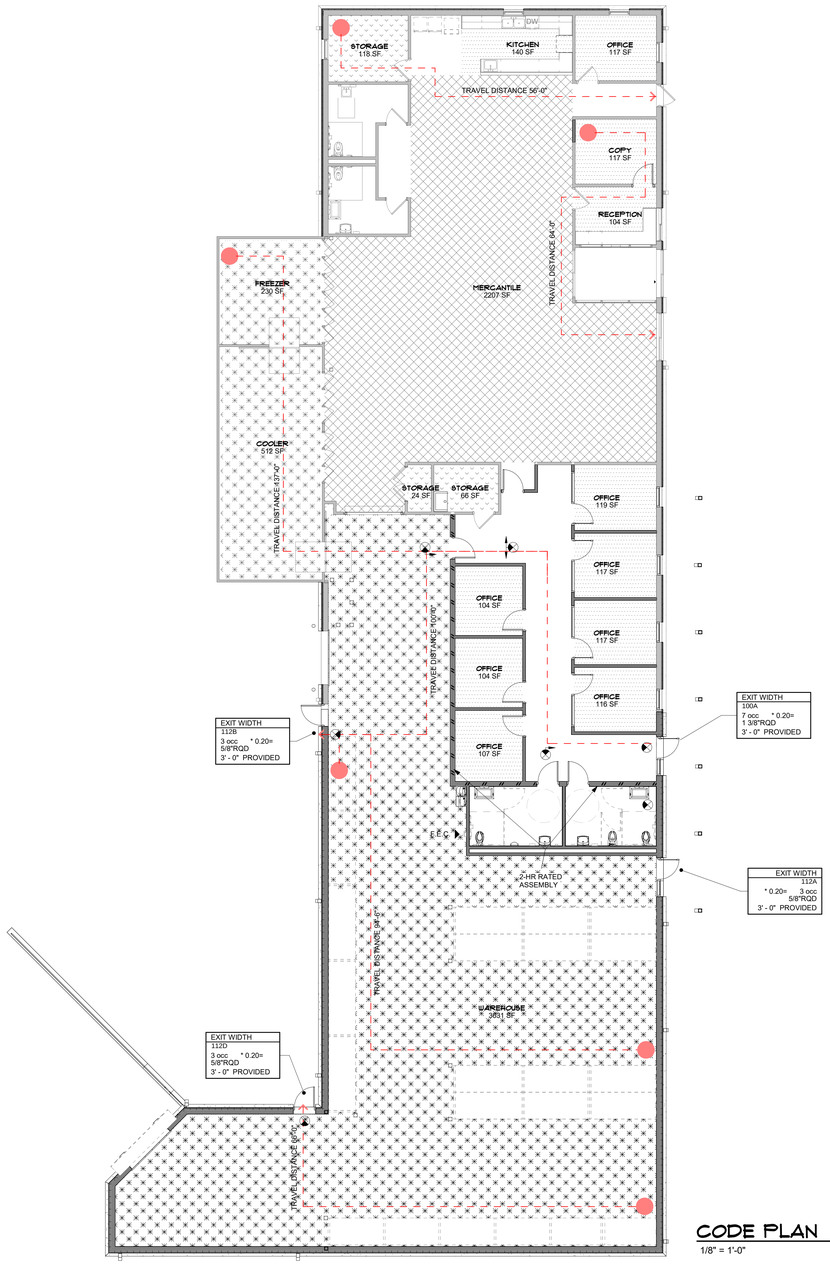
CHEROKEE NATION
VINITA FOOD DISTRIBUTION CENTER EXPANSION
CONSTRUCTION DOCUMENTS



CODE PLAN
1/8" = 1'-0"

LIFE SAFETY HATCH LEGEND

BUSINESS
WAREHOUSE
STORAGE
MERCANTILE

: LINE OF TRAVEL
- TRAVEL DISTANCE TO EXITS = MAX 300' (IBC 1017.2)
- COMMON PATH OF TRAVEL = 100' MAX (IBC 1006.2.1)
- DEAD ENDS = 20' MAX (IBC 1020.4)

F.E.C. : FIRE EXTINGUISHER
- 75' MAX TRAVEL DISTANCE TO EXTINGUISHER (NFPS 10, 3-2.1)

: EXIT SIGN

EXIT WIDTH	
XXX	: DOOR MARK
30 occ * 0.20=	: DOOR WIDTH CALCULATION
6"RQD	: REQUIRED DOOR WIDTH
0" PROVIDED	: PROVIDED DOOR WIDTH

DETAILED CODE INFORMATION

SUMMARY
THE BUILDING DEPICTED IN THESE CONSTRUCTION DOCUMENTS IS A NON-SPRINKLERED SINGLE STORY WAREHOUSE ADDITION WITH OFFICE SPACE

APPLICABLE CODES
2018 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL PLUMBING CODE (IPC)
2014 NATIONAL ELECTRIC CODE (NEC)
2015 INTERNATIONAL FIRE CODE (IFC)
2015 INTERNATIONAL MECHANICAL CODE (IMC)
2010 ADA ACCESSORY GUIDELINES FOR BUILDINGS AND FACILITIES (ADA)
2009 AMERICAN NATIONAL STANDARDS A117.1

USE OR OCCUPANCY

304.1 BUSINESS (B)
309.1 MERCANTILE (M)
311.3 STORAGE (LOW HAZARD) GROUP (S-2)

GENERAL BUILDING HEIGHTS AND AREAS
SEPARATED USE GROUPS: M. TYPE VB NON-COMBUSTIBLE NON-SPRINKLERED:
TABLE 504.3 ALLOWABLE BUILDING HEIGHT 40 FEET
TABLE 504.4 ALLOWABLE NUMBER OF STORIES 1 STORIES
TABLE 506.2 ALLOWABLE BUILDING AREA 9,000 SF
TABLE 507.3 NONSPRINKLERED, ONE-STORY BUILDINGS:
THE AREA OF A GROUP F-2 OR S-2 BUILDING NO MORE THAN ONE STORY IN HEIGHT SHALL NOT BE LIMITED WHERE THE BUILDING IS SURROUNDED AND ADJOINED BY *PUBLIC WAYS* OR YARDS NOT LESS THAN 60 FEET IN WIDTH.
TABLE 508.2.1 AREA LIMITATIONS:
AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES IN TABLE 503, WITHOUT AREA INCREASES IN ACCORDANCE WITH SECTION 506 FOR SUCH ACCESSORY OCCUPANCIES.

TYPE OF CONSTRUCTION
TABLE 602.3 TYPE VB NON-SPRINKLERED

TABLE 601	**STRUCTURAL ELEMENT**	**FIRE RESISTANCE RATING**
	STRUCTURAL FRAME	0
	BEARING WALLS	
	EXTERIOR	0
	INTERIOR	0
	NON-BEARING WALLS	
	EXTERIOR	0
	INTERIOR	0
	FLOOR CONSTRUCTION	0
	ROOF CONSTRUCTION	0

TABLE 602 FIRE-RESISTANCE RATING REQUIRED FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE:
GROUP M

X < 5	2 HOUR
X < 10	1 HOUR
10 ≤ X < 30	0 HOUR

INTERIOR FINISHES
TABLE 803.11 INTERIOR FINISH REQUIREMENTS: TYPE VB

EXIT ENCLOSURES / EXIT PASSAGEWAYS:	CLASS A MATERIALS
CORRIDORS PROVIDING EXIT ACCESS	CLASS B MATERIALS
ROOMS OR ENCLOSED SPACES:	CLASS C MATERIALS

FIRE PROTECTION SYSTEMS
906 PORTABLE FIRE EXTINGUISHERS PER NFPA 10

907.2 FIRE ALARM AND DETECTION SYSTEM
AN APPROVED FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72 SHALL BE PROVIDED IN NEW BUILDINGS AND STRUCTURES AND PROVIDE OCCUPANT NOTIFICATION.

MEANS OF EGRESS
TABLE 1004.1.1 MAX. FLOOR AREA ALLOWANCES/OCCUPANT

WAREHOUSE (S-2)	500 GSF / OCCUPANT	4,667GSF / 500 =	10 OCCUPANTS
MERCANTILE	60 GSF / OCCUPANT	2,208 GSF / 60 =	37 OCCUPANTS
BUSINESS	100 GSF / OCCUPANT	1,165 GSF / 100 =	12 OCCUPANTS
STORAGE (S-1)	300 GSF / OCCUPANT	208 GSF / 300 =	1 OCCUPANT

TOTAL OCCUPANT LOAD = 60 OCCUPANTS

1005.3.2 OTHER EGRESS WIDTH / OCCUPANT 0.20 INCHES / OCCUPANT

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY: NON-SPRINKLERED
OCCUPANCY: M
MAX. OCC. LOAD / SPACE 37 OCC.
MAX. COMMON PATH OF EGRESS TRAVEL DISTANCE 75 FEET

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
OCCUPANCY M, NON-SPRINKLER: 200 FEET

1020.4 DEAD END CORRIDOR : 20 FEET MAXIMUM

PLUMBING FIXTURE COUNT
TABLE 2902.1 MINIMUM NUMBER OF PLUMBING FACILITIES PER FLOOR

FIXTURE TYPE	FACTOR	NUMBER REQUIRED	NUMBER PROVIDED
WATER CLOSETS	MEN/WOMEN 1:25	TOTAL: 2	3
LAVATORIES	MEN/WOMEN: 1:40	TOTAL: 1	3
DRINKING FOUNTAIN	1:100	TOTAL: 1	2 (WATER COOLER)
SERVICE SINK		TOTAL: 1	1

PROJECT CONTACTS

OWNER:
CHEROKEE NATION
P.O. BOX 948
TAHLEQUAH, OK 74465
P(918) 453-5009

ARCHITECT:
BLUE RIVER ARCHITECTS, LLC
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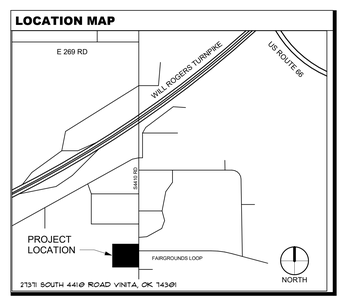
TULSA, OK 74103
P(918) 587-6158

CIVIL:
WALLACE ENGINEERING
123 N. MARTIN LUTHUR KING JR. BLVD
TULSA, OK 74103
P(918) 584-5858

MEP:
MPW ENGINEERING, LLC
110 W 7TH ST.
TULSA, OK 74119
P(918) 582-4088

STRUCTURAL:
WALLACE ENGINEERING
123 N. MARTIN LUTHUR KING JR. BLVD
TULSA, OK 74103
P(918) 584-5858

LOCATION MAP



SHEET INDEX

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK
COVER SHEET

blueriver ARCHITECTS
A Native American Owned Firm
320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

STATE OF OKLAHOMA · THOMAS C. SEAT · No. 4183 · TULSA, OK · LICENSED ARCHITECT
2/12/2024
ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

SHEET NUMBER:
CS

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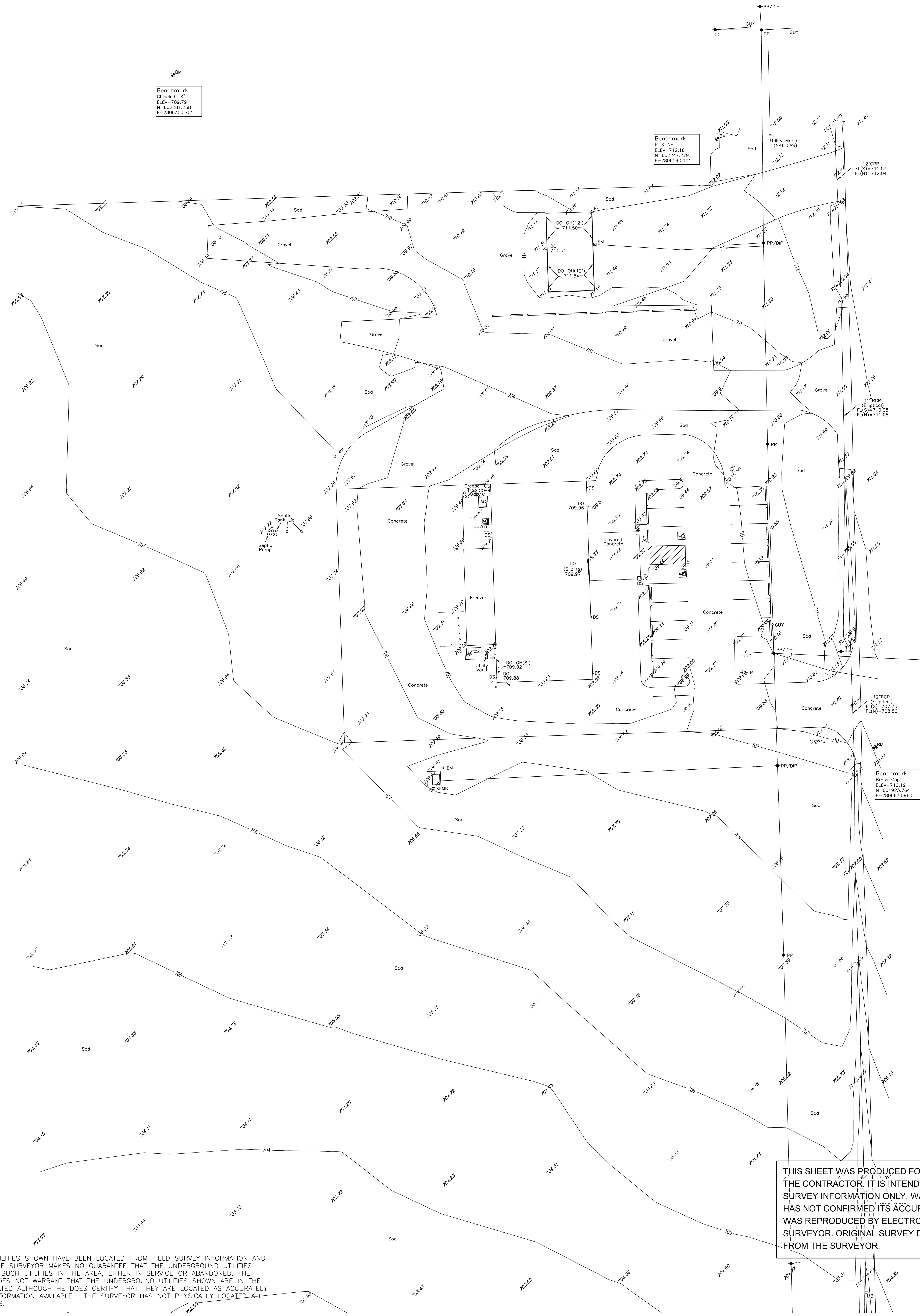
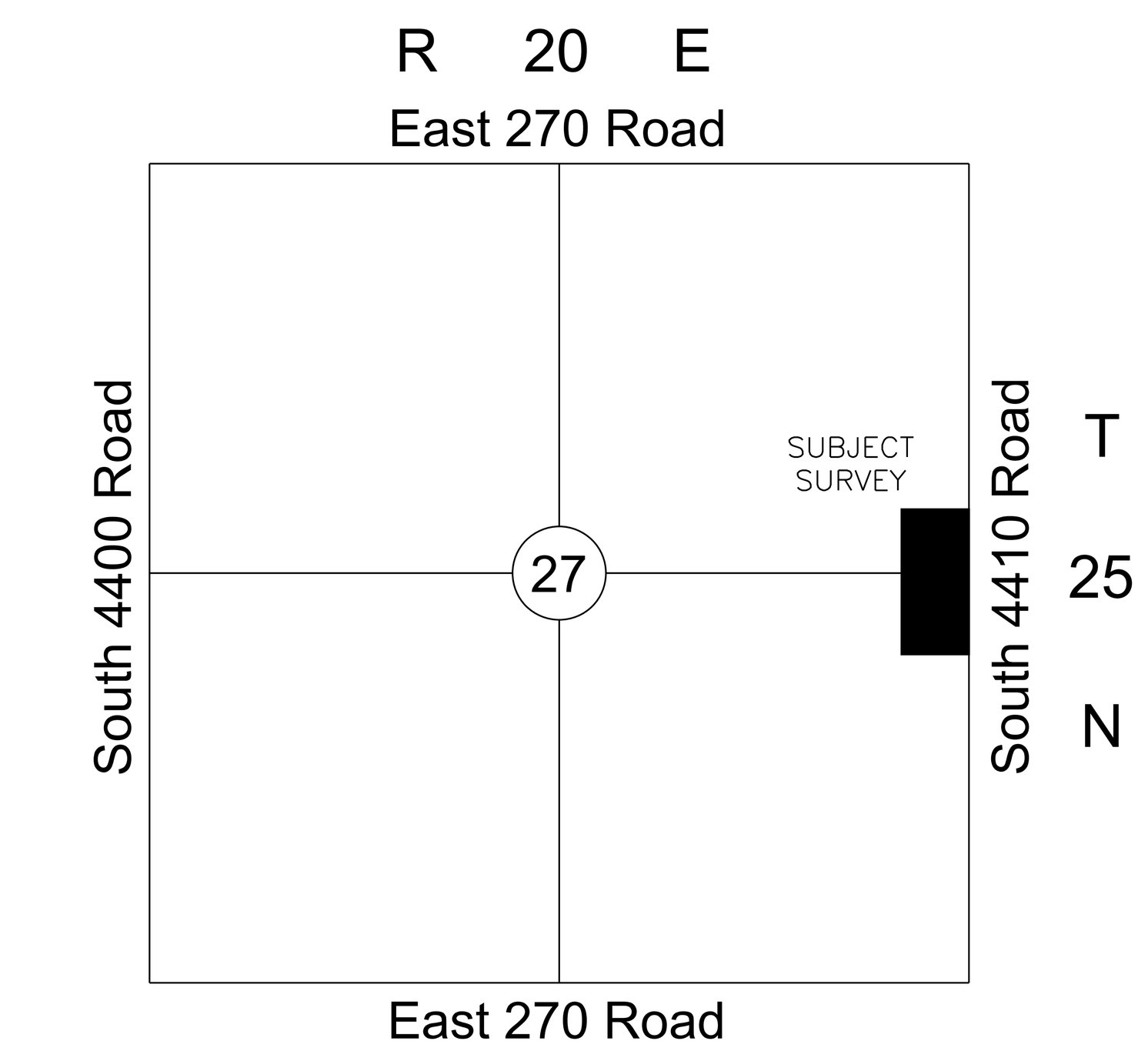
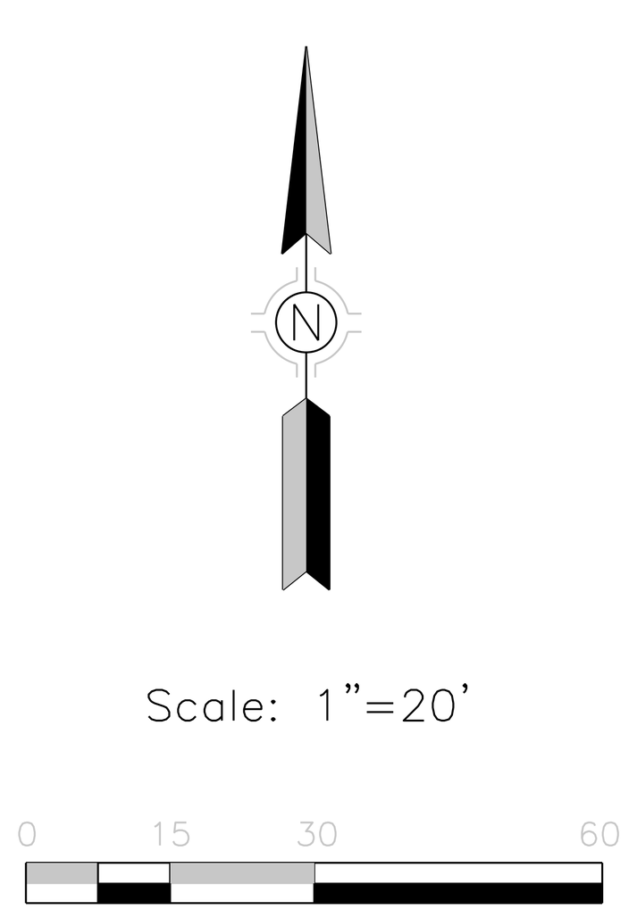


THIS SHEET WAS PRODUCED FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. WALLACE ENGINEERING HAS NOT CONFIRMED ITS ACCURACY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.



Location Map



Scale: 1"=20'

Benchmark Notes

Chiseled "X"
ELEV=709.79
N=602281.238
E=2806300.701

P-K Nail
ELEV=712.18
N=602247.279
E=2806590.101

Brass Cap
ELEV=710.19
N=601923.764
E=2806673.960

Legend

BM	BENCHMARK
DO	DOOR OPENING
DO-OH	DOOR OPENING-OVERHEAD
DS	DOWNSPOUT
FH	FIRE HYDRANT
GM	GAS METER
GUY	GUY WIRE DOWN
LP	LIGHT POLE
OE	OVERHEAD ELECTRIC
PP	POWER POLE
UE	UNDERGROUND ELECTRIC
WH	WATER H;YDRANT
WV	WATER VALVE
XFMR	ELECTRICAL TRANSFORMER

Notes

1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.

Topographic Survey
of A Part of
Cherokee Nation Clinic
Vinita Location
Craig County, Oklahoma

Surveyor's Certification

WE, BENNETT SURVEYING, INC., HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 1ST DAY OF FEBRUARY, 2022.

REGISTERED PROFESSIONAL LAND SURVEYOR CLIFF BENNETT 1815 OKLAHOMA

BY: ______________________
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815

Utility Statement

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ALL UNDERGROUND UTILITIES.

BEFORE YOU DIG ...
1-800-522-6543
CALL OKIE

REVISIONS	DATE

BENNETT SURVEYING, INC.
P.O. BOX 848, CHOUTEAU, OK 74337
PHONE: (918) 476-7484 FAX: (918) 476-7485
C.A. NO.: 4502 EXP. DATE: 6/30/2022

FILE:	2520.27	SURVEY BY:	CUB	DATE:	02/01/22
ORDER:	220341	DRAWN BY:	BAP	SCALE:	1"=20'
SURVEY DATE:	01/31/22	CHECKED BY:	CDB	SHEET	OF

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION VINITA, OK

Survey Plan

OKLAHOMA CA #1460
EXP DATE 6/30/23
320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

REGISTERED PROFESSIONAL ENGINEER LANCE K. WOOLSEY 15383 OKLAHOMA
05/13/2022

PROJECT #:

ISSUE DATES:

No.	Description	Date

SHEET NUMBER:
C200

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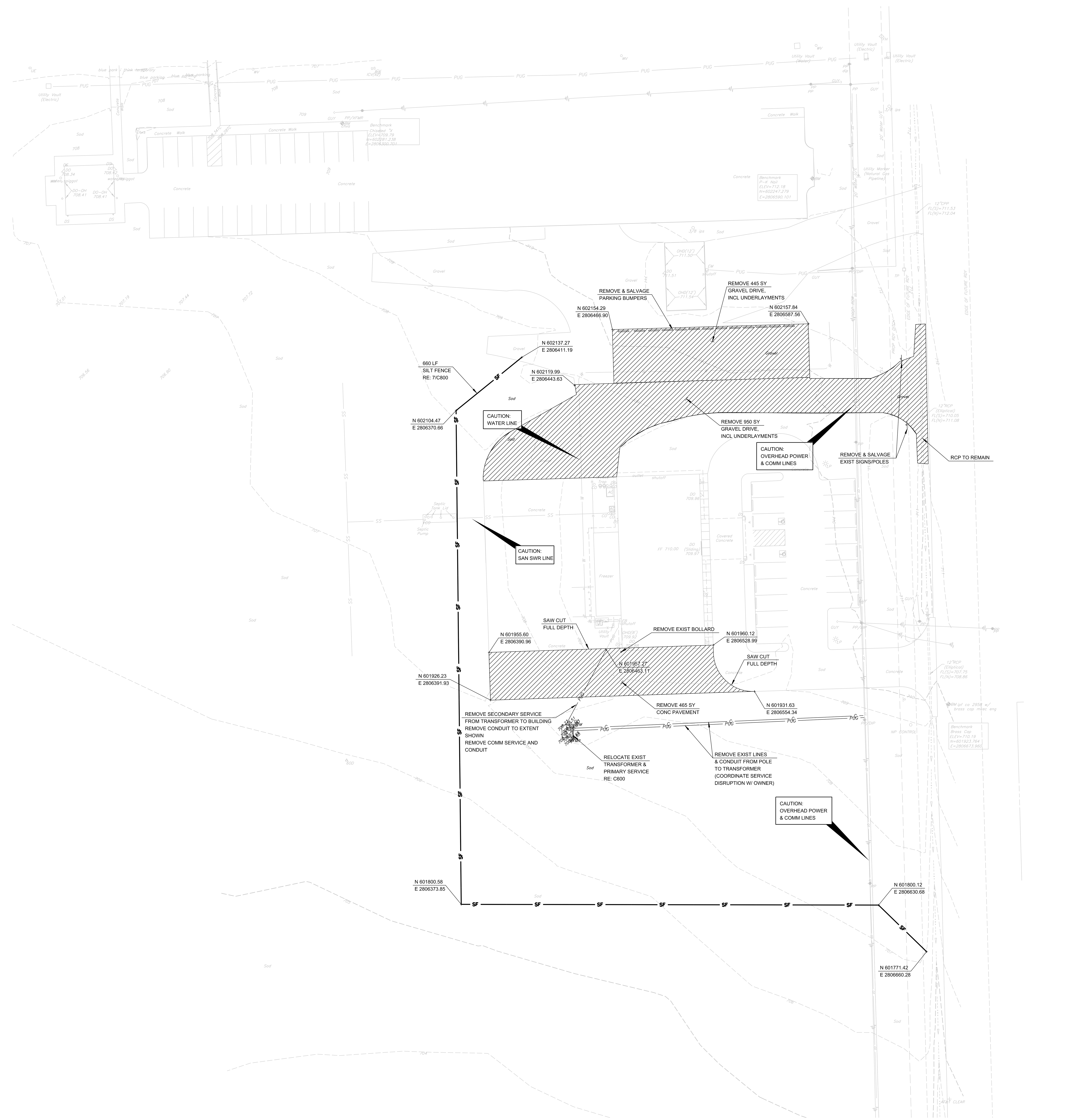

GENERAL DEMOLITION NOTES

1. ALL CONCRETE AND ASPHALT NOTED FOR REMOVAL SHALL BE SAW CUT FULL DEPTH AND REMOVED OFF SITE.

2. CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS.

3. CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS OFF SITE.

4. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. ALL COST SHALL BE INCLUDED IN BASE BID.

5. WITH PRIOR APPROVAL, CONTRACTOR MAY ESTABLISH AN ON-SITE STAGING AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING STAGING AREA TO ITS ORIGINAL CONDITION. SECURITY OF STAGING AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. ON-SITE VEGETATION SHALL BE PROTECTED AS NOTED. IN DESIGNATED PROTECTION AREAS WHERE THE CONTRACTOR DOES NOT PROTECT VEGETATION AS NOTED, CONTRACTOR SHALL RESTORE VEGETATION TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER, TO THE SATISFACTION OF THE ARCHITECT.

7. CONTRACTOR SHALL PROTECT ALL ABOVE GROUND UTILITY FEATURES NOT BEING REMOVED INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVES, AND INLETS. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

8. SIX (6) FOOT CHAINLINK CONSTRUCTION FENCE SHALL BE MAINTAINED AND SECURED AROUND PERIMETER OF CONSTRUCTION SITE FOR DURATION OF PROJECT.

9. TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE, WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH PER SPECIFICATIONS ON THE GENERAL NOTES AND STORMWATER POLLUTION PREVENTION PLAN.

10. PRIOR TO UTILITY DEMOLITION COORDINATE WITH AUTHORITY HAVING JURISDICTION.

11. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANE CLOSURES, DETOURS, ETC. BOTH VEHICULAR AND PEDESTRIAN.

12. UTILITIES BEING REMOVED OR RELOCATED SHALL BE ISOLATED AND SERVICE DISCONNECTED PRIOR TO ANY DEMOLITION.

13. NO UTILITY INTERRUPTIONS WILL BE ALLOWED WITHOUT CONSENT OF THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT A MINIMUM OF FOUR WORKING DAYS PRIOR TO THE REQUESTED SHUT DOWN.

14. CONTRACTOR SHALL PROVIDE TEMPORARY UTILITY SERVICE IF REQUIRED.

15. CONTRACTOR SHALL ENSURE CONSTRUCTION SITE HAS POSITIVE DRAINAGE THROUGHOUT THE DURATION OF CONSTRUCTION.

20 0 10 20
1"=20' FULL SIZE
1"=40' HALF SIZE

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK
Alteration /Erosion Control Plan

OKLAHOMA CA #1460
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Tulsa, Oklahoma 74103
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GENERAL SITE NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.

2. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.

4. ALL DIMENSIONS AND COORDINATES ARE FROM BACK OF CURB UNLESS SHOWN OTHERWISE.

5. RADII = 5'-0" U.N.O.

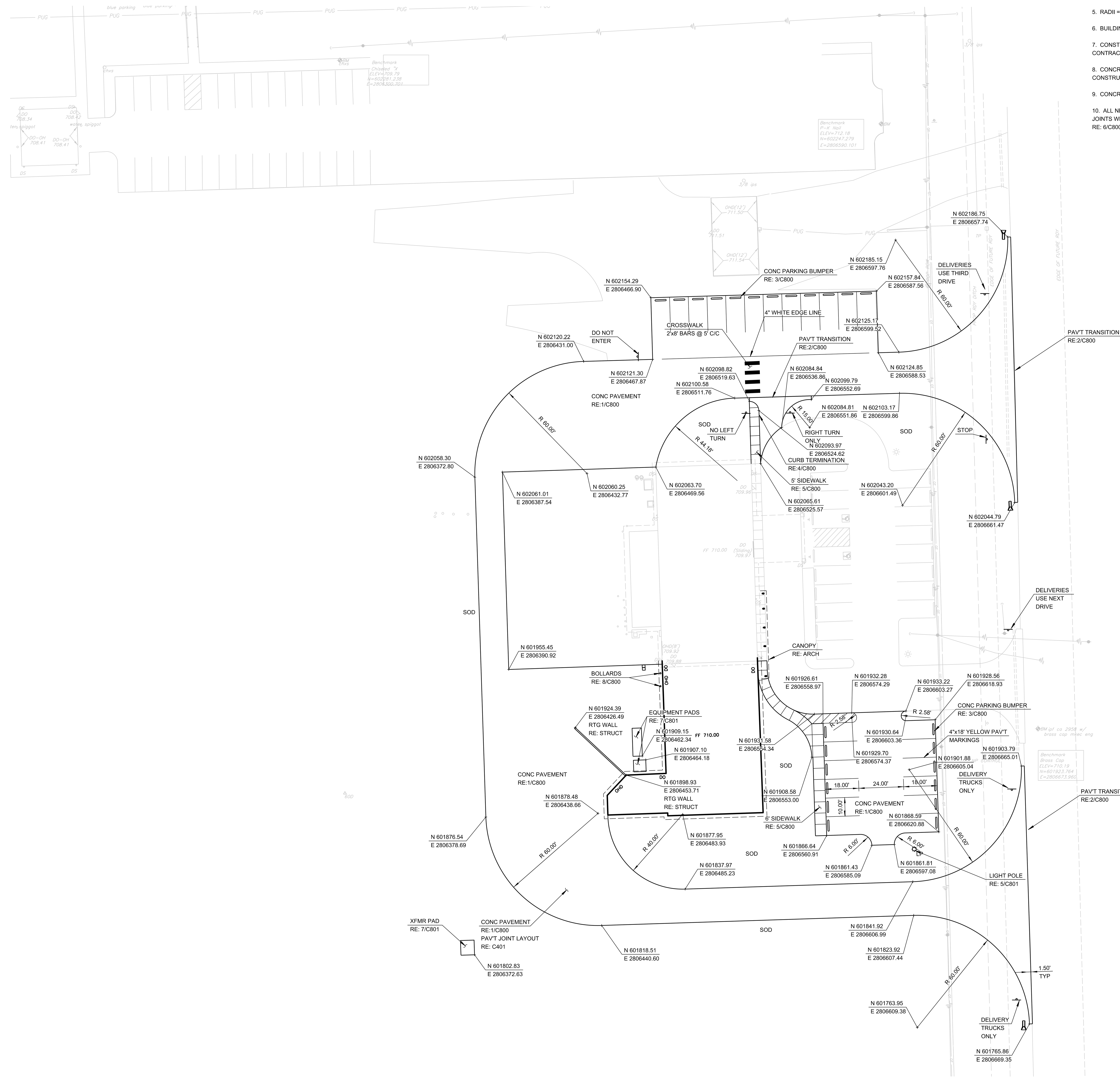
6. BUILDING COORDINATES ARE TO STRUCTURAL GRID INTERSECTION.

7. CONSTRUCTION JOINTS ARE TO BE DOWELED AT LOCATIONS WHERE THE CONTRACTOR STOPS CONCRETE PAVING AND RESUMES THE NEXT DAY.

8. CONCRETE PAVEMENT JOINTS SHALL BE SAW CUT AND SEALED. CONSTRUCTION JOINTS SHALL BE LOCATED PER PLAN AND SEALED. RE: 6/C800.

9. CONCRETE SIDEWALK JOINTS SHALL BE TOOLED U.N.O.

10. ALL NEW CONCRETE PAVEMENT AND SIDEWALK SHALL HAVE ISOLATION JOINTS WHERE ABUTTING BUILDINGS, EXISTING PAVEMENT, WALKS, AND CURBS. RE: 6/C800.



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1"=20' FULL SIZE
1"=40' HALF SIZE

PARKING SUMMARY	
ACCESSIBLE	---
VAN ACCESSIBLE	---
STANDARD PARKING	12
TOTAL PARKING	12

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION VINITA, OK

Site Plan

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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA

05/13/2022

PROJECT #:

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C400

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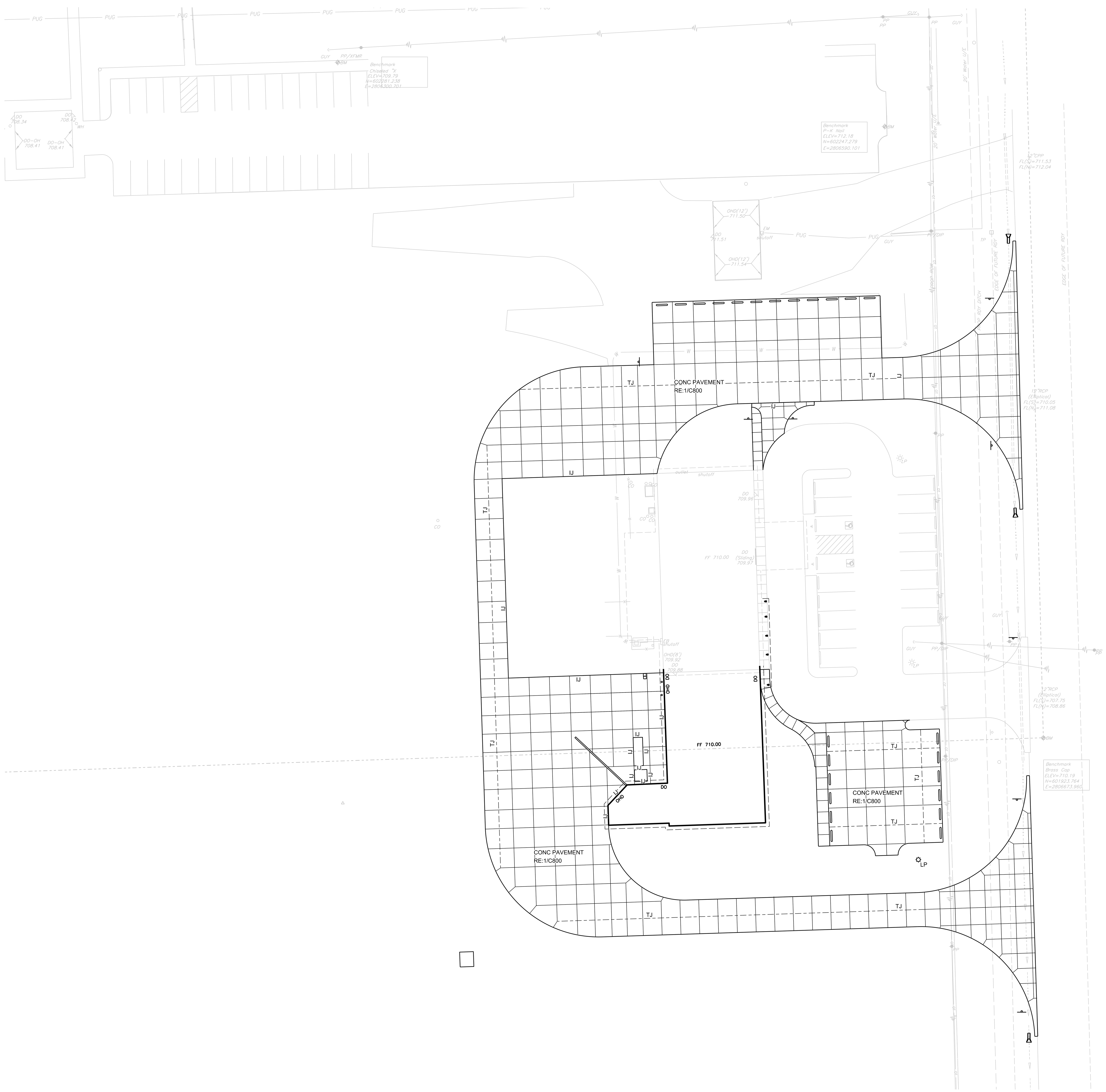

GENERAL PAVING NOTES

1. REFER TO SITE PLAN, C400 FOR ADDITIONAL SITE INFORMATION.

2. REFER TO ARCHITECTURAL SITE PLAN FOR GRASS, TREES AND PLANTED MATERIALS.

3. CONTRACTOR SHALL INCLUDE CONSTRUCTION JOINT EVERY 150 FEET UNLESS NOTED OTHERWISE.

4. CONSTRUCTION JOINTS ARE TO BE DOWELED AT LOCATIONS WHERE THE CONTRACTOR STOPS CONCRETE PAVING AND RESUMES THE NEXT DAY.

5. CONCRETE PAVEMENT JOINTS SHALL BE SAW CUT AND SEALED. CONSTRUCTION JOINTS SHALL BE LOCATED PER PLAN AND SEALED. RE: 6/C800.

6. CONCRETE SIDEWALK JOINTS SHALL BE TOOLED U.N.O.

7. ALL NEW CONCRETE PAVEMENT AND SIDEWALK SHALL HAVE ISOLATION JOINTS WHERE ABUTTING BUILDINGS, EXISTING PAVEMENT, WALKS, AND CURBS. RE: 6/C800.

8 EPOXY COATED #4 X 30" DOWELS AT 30" C/C REQUIRED WHEN CURB AND GUTTER NOT PLACED INTEGRAL WITH PAVEMENT SECTION.

N

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1"=20' FULL SIZE
1"=40' HALF SIZE

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK

Site Joint Plan

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wallace design collective, pc
structural · civil · landscape · survey
123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
918.584.5858 · 800.364.5858

OKLAHOMA CA #1460
EXP DATE 6/30/23

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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
Lance K. Woolsey
05/13/2022

PROJECT #:

ISSUE DATES:

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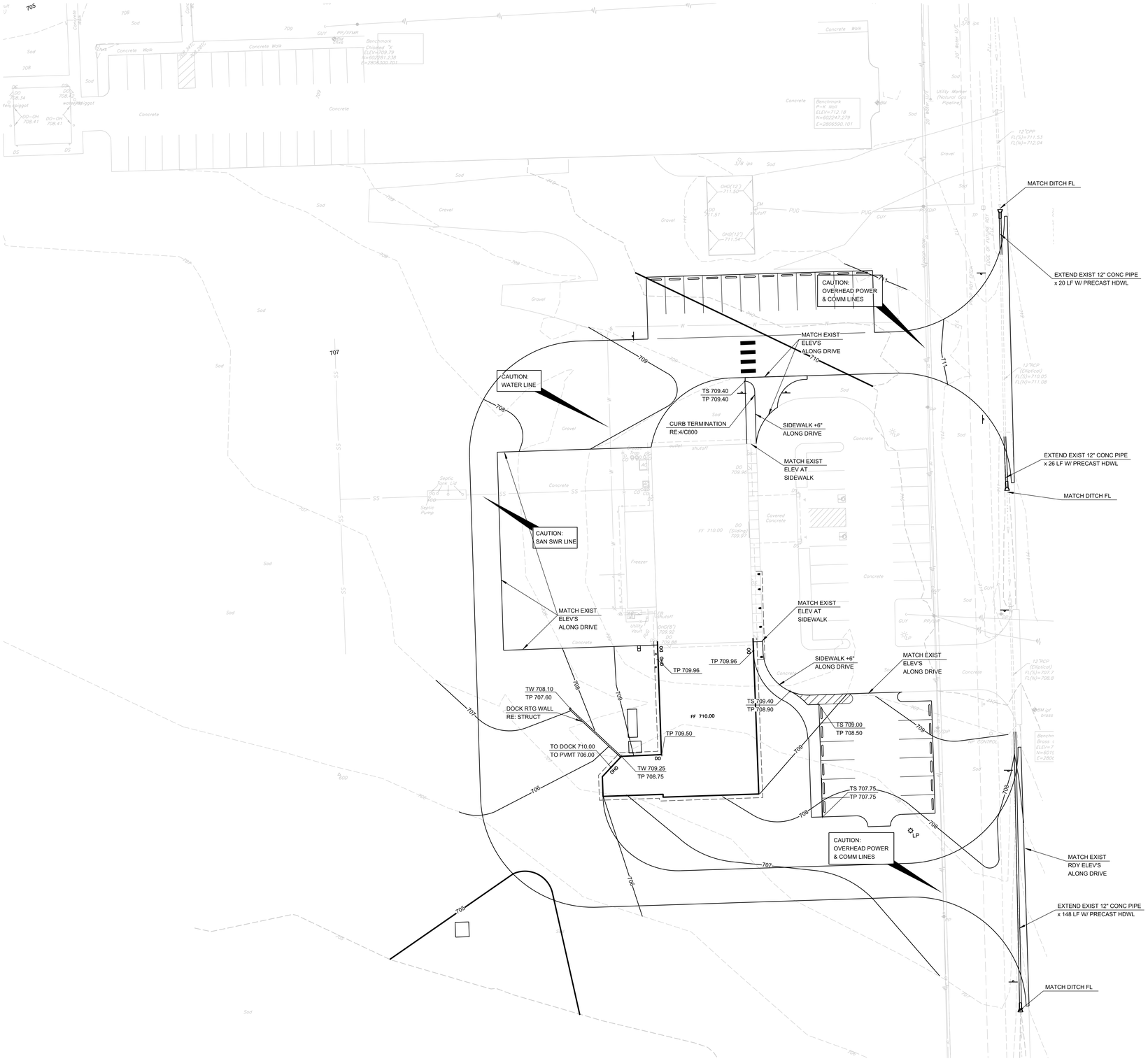

GENERAL GRADING NOTES

1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED & INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

3. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

4. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR ALL GRASSED AND PAVED AREAS.

7. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.

8. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ACCESS ROADS AND SHALL MAINTAIN POSITIVE DRAINAGE OF ENTIRE SITE THROUGHOUT CONSTRUCTION AND AVOID PONDING OR RUTTING. TEMPORARY DEWATERING, INCLUDING PUMPING, MAY BE REQUIRED AND SHALL BE INCLUDED IN THE SCOPE OF WORK.

9. SIDEWALKS SHALL HAVE MAX 2% CROSS SLOPE.

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK

Grading Plan

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OKLAHOMA CA #1460
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918-877-9036
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LANCE K. WOOLSEY 15387 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA
05/13/2022

PROJECT #:

ISSUE DATES:

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C 500

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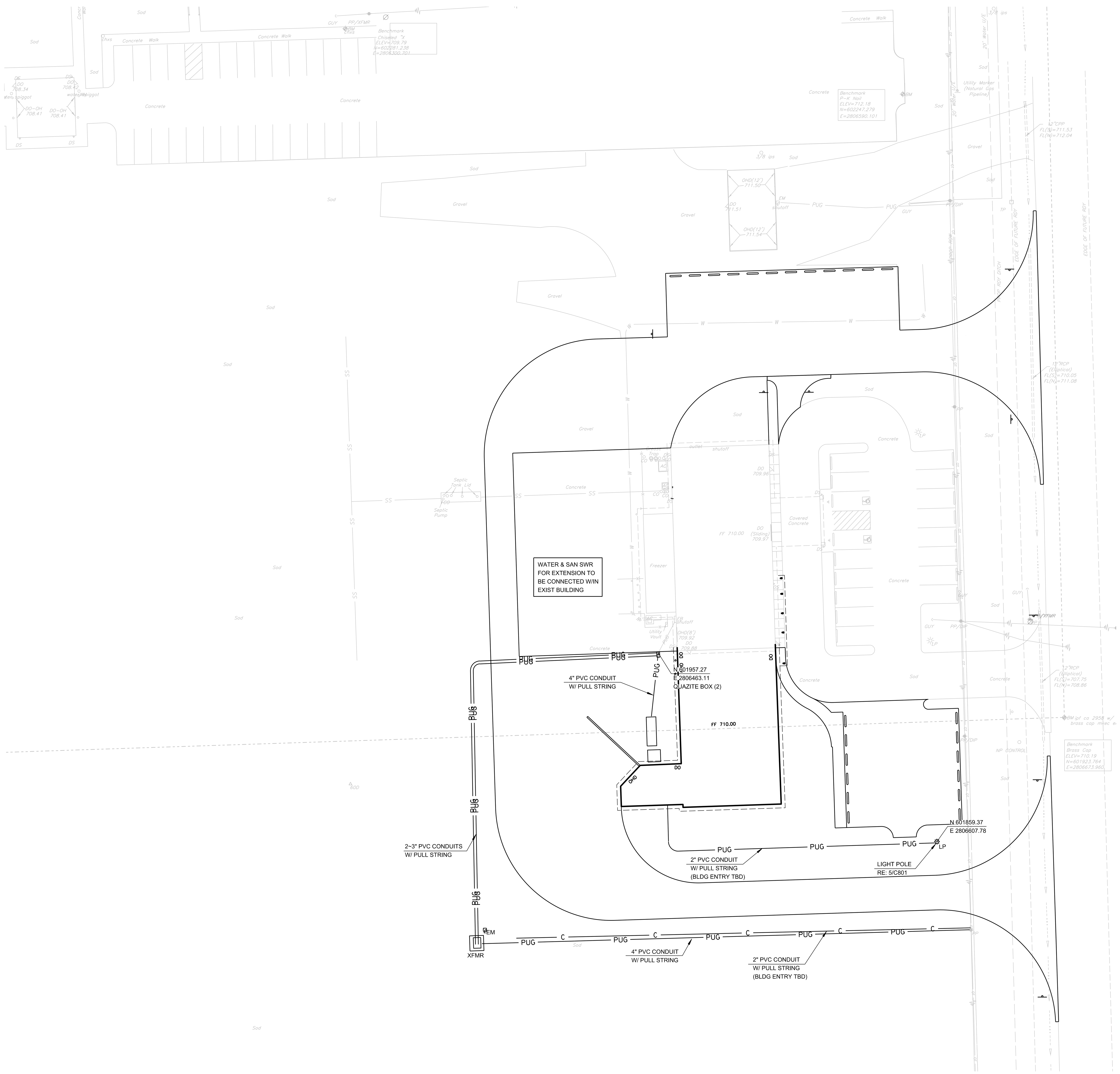

20 0 10 20

1"=20' FULL SIZE

1"=40' HALF SIZE

GENERAL UTILITY NOTES:

1. PRIOR TO CONSTRUCTION, LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH THE PROPER UTILITY COMPANY PROVIDING SERVICE.

2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS BEFORE CONNECTING TO ANY EXISTING LINE IN ACCORDANCE WITH LOCAL REQUIREMENTS.

3. RESTRAINED JOINTS SHALL BE PROVIDED ON 4" AND LARGER WATER LINES AT ALL BENDS TEES AND FIRE HYDRANTS FOR A MINIMUM 2 JOINTS BOTH SIDES OF FITTING PER AWWA MINIMUM STANDARDS.

4. TERMINATE SERVICE PIPING 5' FROM BUILDING WALL UNTIL BUILDING PIPING SYSTEMS ARE INSTALLED. TERMINATE PIPING WITH VALVE AND CAP PLUG OR FLANGE AS REQUIRED FOR PIPING MATERIAL. MAKE CONNECTIONS TO BUILDING PIPING SYSTEMS WHEN THOSE SYSTEMS ARE INSTALLED.

5. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.

6. REFER TO PLUMBING AND/OR FIRE PROTECTION SHEETS FOR FIRE LINE LEAD-IN LOCATION AND DETAIL.

7. ALL PIPING SHALL BE INSTALLED WITH A MINIMUM OF 30" OF COVER, UNLESS NOTED OTHERWISE.

8. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.

9. CONTRACTOR IS TO COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.

10.CONTRACTOR SHALL UTILIZE AWWA AND FACTORY MUTUAL TEST AND CERTIFICATIONS FOR ALL UNDERGROUND FIRE PROTECTION LINES AS A MINIMUM. LOCAL OR STATE AUTHORITIES MAY REQUIRE MORE STRINGENT TESTING WHICH SHALL BE PROVIDED BY THE GC IF REQUIRED.

11.UTILITY TRENCH DETAIL RE: 1/C801. STORM TRENCH DETAIL RE: 2/C801.

12.REFER TO PLUMB FOR CONTINUATION OF UTILITIES AT BUILDING.

13.PROVIDE SLEEVE WITH LINK-SEAL (OR APPROVED EQUAL) AT GRADE BEAM PENETRATION LOCATIONS (RE: STRUCTURAL FOR DETAIL).

14.CONSTRUCT CLAY TRENCH PLUG THAT EXTENDS AT LEAST 5 FEET OUT FROM THE FACE OF THE BUILDING EXTERIOR. THE PLUG MATERIAL SHALL CONSIST OF CLAY COMPACTED AT A WATER CONTENT AT OR ABOVE THE SOILS OPTIMUM WATER CONTENT. THE CLAY FILL SHALL BE PLACED TO COMPLETELY SURROUND THE UTILITY LINE AND BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY.

15. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE THE EXISTING STRUCTURE AS NECESSARY.

16. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.

17. CALL ONG BUILDERS HOTLINE TO COORDINATE GAS SERVICE WHEN GRADE IS WITHIN 6" OF FINAL ELEVATIONS AND BUILDING WALLS ARE UP.

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A Native American Owned Firm

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK

Utility Plan

wallace design collective
OKLAHOMA CA #1460
EXP DATE 6/30/23

320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
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REGISTERED PROFESSIONAL ENGINEER
LANCE K. WOOLSEY
15383
OKLAHOMA
05/13/2022

PROJECT #:

ISSUE DATES:		
No.	Description	Date

SHEET NUMBER:

C600

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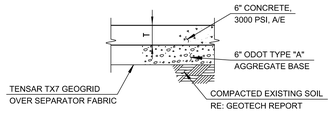
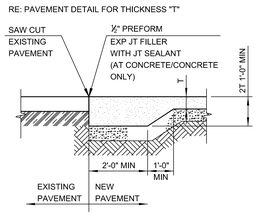
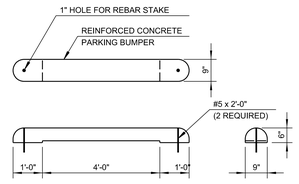


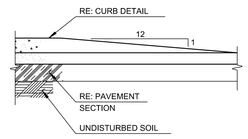
1 PAVEMENT DETAIL
SCALE: NTS



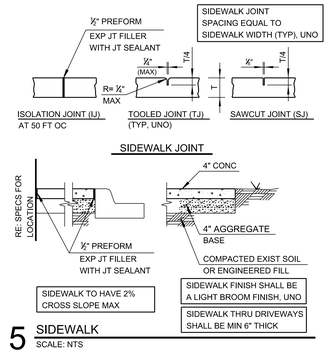
2 PAVEMENT TRANSITION
SCALE: NTS



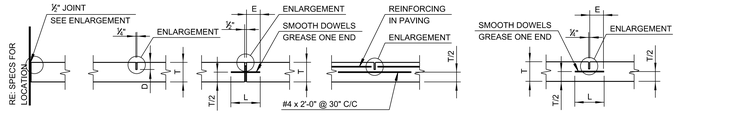
3 PARKING BUMPER
SCALE: NTS



4 CURB TERMINATION
SCALE: NTS



5 SIDEWALK
SCALE: NTS



JOINTS NOT SHOWN OTHERWISE SHALL BE SAW JOINTS. SAW JOINTS SHALL BE MADE WITHIN 10 HOURS AFTER CONCRETE POUR.

CONCRETE PAVING JOINT SPACING SEE SCHEDULE

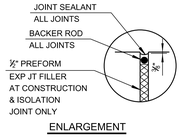
LENGTH <= 1.25W

RE: SPECS FOR ADDITIONAL INFORMATION

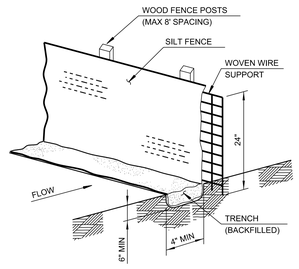
ALL DOWELS & BARS TO BE EPOXY COATED

DOWEL BASKETS SHALL BE USED AT ALL DOWELED CONTRACTION JOINTS

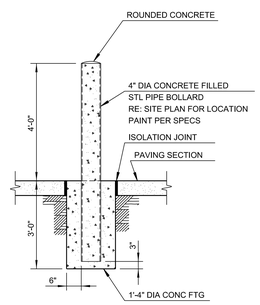
"T" PAVEMENT THICKNESS	DOWEL DIAMETER @12" C/C	"L" LENGTH	"E" EMBEDMENT	"D" SAWCUT DEPTH	MAX JOINT SPACING
5"	---	---	---	1 ¼"	12.5'
6"	¾"	14"	6"	1 ¼"	15'
7"	¾"	14"	6"	1 ¾"	15'
8"	1"	14"	6"	2"	15'



6 PAVING JOINT DETAIL
SCALE: NTS



7 SILT FENCE



8 BOLLARD
SCALE: NTS

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK

Details

OKLAHOMA CA #1460
EXP DATE 6/30/23

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PROJECT #:

ISSUE DATES:

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C800

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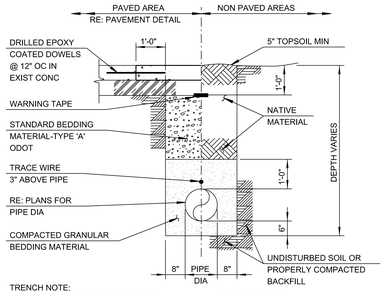
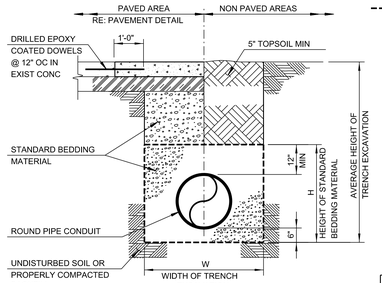


TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING NOTE:
UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 95% STANDARD PROCTOR.

1 PIPE TRENCH-ALL PIPES EXCEPT STORM SEWER
SCALE: NTS



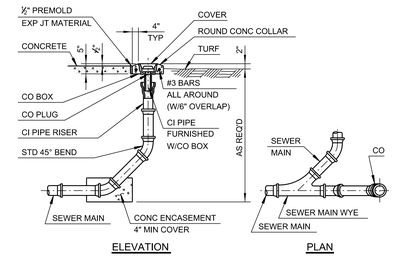
LIMITS OF STANDARD BEDDING MATERIAL QUANTITIES FOR BEDDING MATERIAL DO NOT INCLUDE THE SPACE WITHIN AND BOUNDED BY THE OUTER SURFACE OF THE PIPE CONDUIT.

TRENCH NOTE:
BRACING AND SHEATHING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND OSHA SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE RESPONSIBILITY OF THE CONTRACTOR.

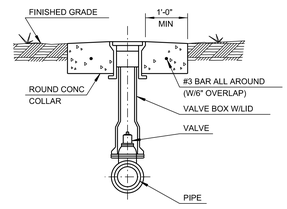
BEDDING NOTE:
STANDARD BEDDING MATERIAL MUST BE ODOT TYPE "A" AGGREGATE BASE. UNDER PAVING ODOT TYPE "A" AGGREGATE BASE MUST BE TO THE TOP OF THE TRENCH. ODOT TYPE "A" AGGREGATE BASE TO BE COMPACTED TO 98% MODIFIED PROCTOR DENSITY.

PIPE SIZE, IN.	TRENCH WIDTH, FT.
ID < 24"	OD + 2'
24" > ID < 36"	OD + 2.5'
36" > ID < 60"	OD + 3.5'
ID > 60"	OD + 4'

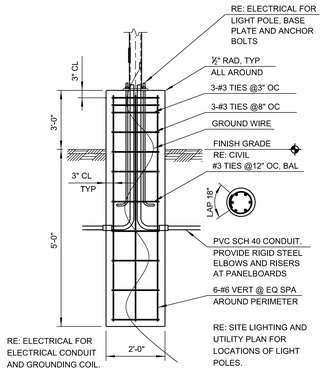
2 STANDARD PIPE BEDDING DETAIL FOR STORM SEWER
SCALE: NTS



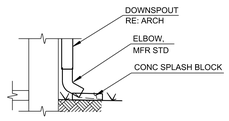
3 CLEANOUT
SCALE: NTS



4 VALVEBOX DETAIL
SCALE: NTS

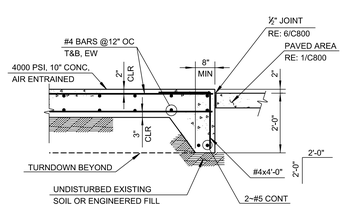


5 TYPICAL LIGHT POLE BASE DETAIL
SCALE: NTS



SLOPE GRADE AWAY FROM BUILDING AT 2% MIN

6 DOWNSPOUT TERMINATION
SCALE: NTS



VERIFY PAD DIMENSIONS AND OPENINGS W/ EQUIPMENT SUPPLIER

PLACE ISOLATION JOINT BETWEEN PAD AND ADJOINING CONCRETE

7 EQUIPMENT PAD
SCALE: NTS

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK
Utility Details

OKLAHOMA CA #1460
EXP DATE 6/30/23

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OKLAHOMA
05/13/2022

PROJECT #:

ISSUE DATES:

No.	Description	Date

SHEET NUMBER:
C801

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ALTERATION KEYNOTES

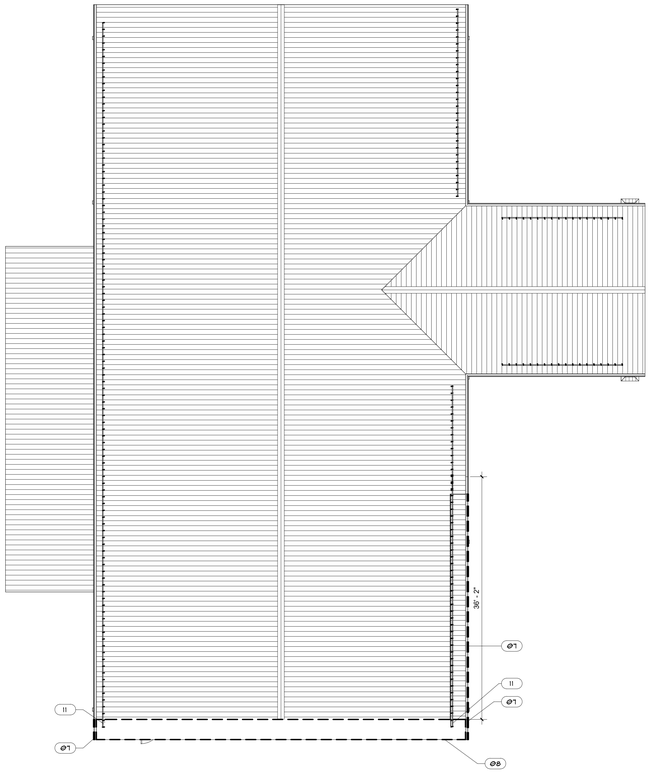
01	REMOVE PORTION OF EXISTING WALL - PREPARE FOR NEW WINDOW
02	REMOVE DOOR AND ALL HARDWARE - SALVAGE FOR RE-USE, REFER TO DOOR SCHEDULE
03	CLEAN AND PREPARE EXISTING SLAB EDGE FOR NEW CONSTRUCTION, REMOVE EXISTING END WALL
04	PREPARE EXISTING PARTITION FOR NEW DOOR - REFER TO DOOR SCHEDULE
05	REMOVE EXISTING CEILING - PREPARE FOR NEW
06	REMOVE PORTION OF EXISTING EXTERIOR SOFFIT SYSTEM
07	REMOVE PORTION OF EXISTING GUTTER, FASCIA, ROOFING AS REQUIRED FOR NEW ROOF
08	REMOVE EXISTING ROOF SYSTEM AS REQUIRED - PREPARE FOR NEW WALL ASSEMBLY
09	CUT AND REMOVE CONCRETE, PREPARE FOR PLUMBING, POUR NEW SLAB AS REQUIRED
10	REMOVE EXISTING CEILING MECHANICAL GRILLES - REFER TO MECHANICAL
11	REMOVE PORTION OF EXISTING ROOF SNOW GUARD SYSTEM

DEMOLITION LEGEND

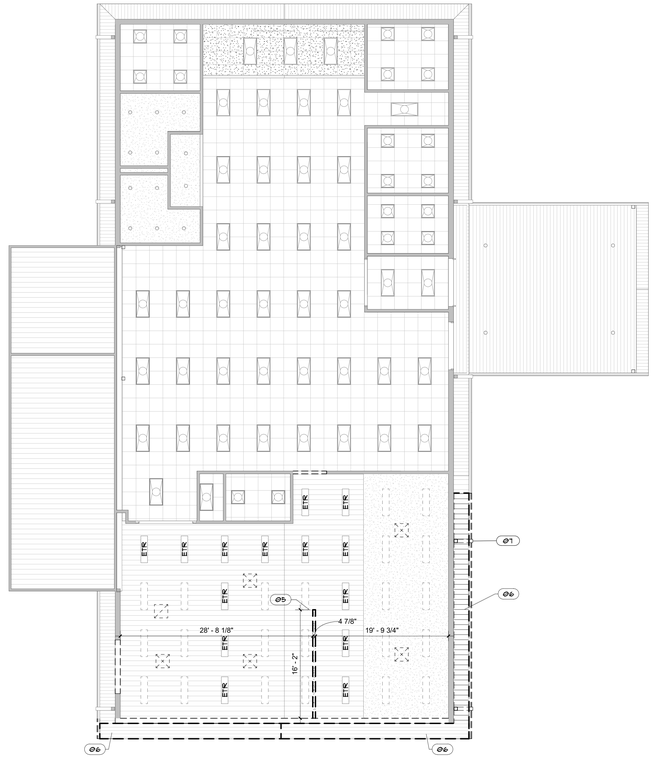
- EXISTING PARTITION TO REMAIN, WIDTH OF PARTITION VARIES
- TO BE ALTERED, WIDTH OF PARTITION VARIES
- REMOVE EXISTING CONCRETE SLAB
- 2X4 LIGHTING TO BE REMOVED
- RETURN DUCT TO BE REMOVED
- SUPPLY DUCT TO BE REMOVED
- CAN LIGHT
- ETR — EXISTING LIGHTING TO REMAIN
- EXISTING LIGHTING TO BE REMOVED

ALTERATION GENERAL NOTES

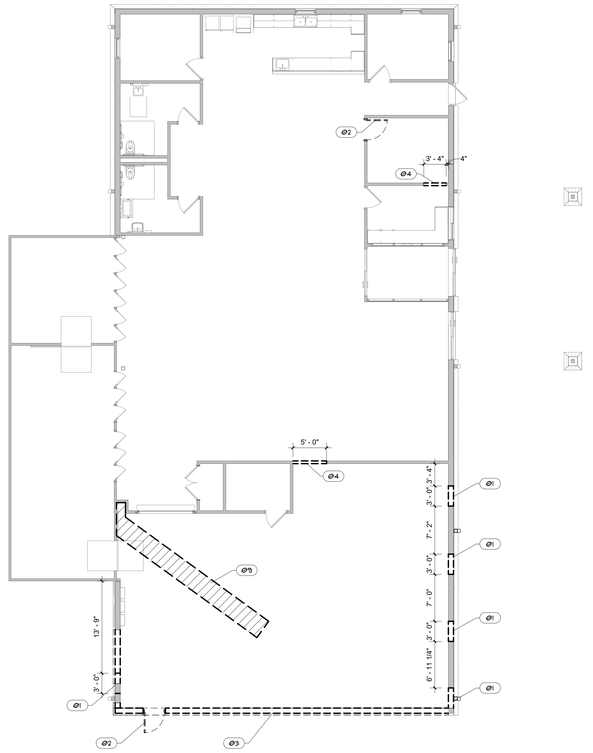
1. CONTRACTOR TO COORDINATE ALL ALTERATION WORK WITH NEW CONSTRUCTION AND RENOVATION PRIOR TO START.
2. ALL ITEMS SHOWN ON ALTERATION PLANS WITH DASHED LINEWORK ARE TO BE REMOVED. SEE ADDITIONAL NOTES ON FLOOR PLAN.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF MATERIALS REQUIRED FOR ALTERATION AND NEW CONSTRUCTION.
4. CONTRACTOR TO DISPOSE OF ALL ITEMS IN A LEGAL MANNER.
5. CARE SHALL BE TAKEN TO LOCATE AND PROTECT ANY STRUCTURAL COMPONENTS THAT ARE WITHIN WALLS, CEILINGS OR FLOORS UNLESS SPECIFICALLY IDENTIFIED TO BE REMOVED.
6. REMOVE EXISTING INTERIOR PARTITIONS AS INDICATED ON PLAN TO ACCOMODATE NEW CONSTRUCTION. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR REUSED OR RELOCATED DEVICES OR FIXTURES. CONTRACTOR SHALL CONFIRM IF A WALL IS OR IS NOT LOAD BEARING PRIOR TO REMOVING ANY PORTION. IF A WALL IS FOUND TO BE LOAD BEARING, AND IS NOT ADDRESSED IN THE DRAWINGS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR DIRECTIONS TO RETAIN STRUCTURAL INTEGRITY OF THE SUPPORTED STRUCTURE.
7. PATCH AND REPAIR EXISTING SUBSTRATES THAT ARE TO REMAIN AS REQUIRED TO PREPARE THEM FOR NEW WORK AND FINISHES AS DEFINED ELSEWHERE IN THE DOCUMENTS.
8. DUST WALLS SHALL BE INSTALLED AS NEEDED TO ISOLATE DEMOLITION AREA FROM OCCUPIED AREA. COORDINATE WITH OWNER. MAINTAIN FIRE EXITS AT ALL TIMES.
9. FIRE EXTINGUISHERS IN THE AREA OF WORK SHALL REMAIN. CONTACT ARCHITECT FOR REVISED LOCATION WHERE EXISTING FIRE EXTINGUISHERS AND/OR FIRE EXTINGUISHER CABINETS ARE LOCATED ON WALLS TO BE REMOVED.
10. REMOVE EXISTING LIGHT FIXTURES AND CEILINGS IN THEIR ENTIRETY, UNLESS NOTED OTHERWISE. DE-ENERGIZE CIRCUITS UNTIL READY FOR NEW LIGHTING. COORDINATE WITH ELECTRICAL PLANS TO DETERMINE IF CIRCUITS WILL BE REUSED, RELOCATED, OR ABANDONED. REMOVE CONDUCTORS AND CONDUIT BACK TO SOURCE FOR CIRCUITS THAT WILL BE ABANDONED.
11. REMOVE ELECTRICAL CONDUCTORS BACK TO THE SOURCE. EMPTY CONDUIT WITHIN WALLS AND ABOVE CEILINGS THAT ARE NOT OTHERWISE MODIFIED. IF CIRCUITS ARE TO BE RELOCATED OR REINSTALLED IN NEW WORK, DE-ENERGIZE CIRCUITS UNTIL RELOCATED. REMOVE CONDUCTORS AND CONDUIT BACK TO SOURCE FOR CIRCUITS THAT WILL BE ABANDONED.
12. REMOVE ALL ABANDONED AND NON-OPERATIONAL CABLING ABOVE CEILINGS IN AREA OF WORK. TAKE CARE TO NOT CUT EXISTING DATA OR FIBER THAT IS TO REMAIN FOR THE FUNCTIONING IT ROOM/SERVER.
13. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING ALTERATION DRAWINGS FOR ADDITIONAL INFORMATION.
14. REMOVE OUTLETS, SWITCHES, AND WIRING IN PARTITIONS IDENTIFIED TO BE REMOVED. WIRING TO BE REMOVED BACK TO CLOSEST WALL TO REMAIN AND TERMINATED IN NEW JUNCTION BOX PROVIDED BY CONTRACTOR.
15. REMOVE AND DISPOSE OF EXISTING PARTITIONS SHOWN DASHED. REMOVE PARTITIONS TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. PATCH AND REPAIRE FLOOR SLAB AS REQUIRED TO MAKE READY FOR NEW CONSTRUCTION. IF REMAINING WALL IS COMPROMISED, NOTIFY ARCHITECT IMMEDIATELY.
16. CAREFULLY REMOVE ITEMS IDENTIFIED AS SALVAGE OR SCHEDULED FOR RE-USE. STORE IN PROTECTED AREA UNTIL REINSTALLATION IS ACHIEVED. REPAIR DAMAGE CAUSE BY CARELESS REMOVAL OR IMPROPER STORAGE, OR REPLACE SUCH ITEMS TO OWNER'S SATISFACTION.
17. REMOVE AND DISPOSE OF EXISTING FLOORING IN AREAS SHOWN TO BE REPLACED. REMOVE TO SUBSTRATE, LEAVING SURFACE READY FOR INSTALLATION OF NEW FINISH AS SCHEDULED. PATCH HOLES AND IMPERFECTIONS IN SUBSTRATE AS REQUIRED.
18. CONTACT ARCHITECT BEFORE REMOVING OR ALTERING ANY EXISTING CONSTRUCTION OR ITEMS NOT SHOWN TO BE REMOVED.
19. CAREFULLY REMOVE FIXTURES, RECEPTACLES, DEVICES, ETC. AS NEEDED TO FACILITATE ALTERATION. STORE DEVICES AND REINSTALL.
20. REMOVE ALL ITEMS FROM WALLS WITHIN AREAS OF WORK AND PREPARE FOR NEW WORK.
21. REMOVE EXISTING WALL BASE IN AREA OF WORK. WALL BASE VARIES PER LOCATION. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS.
22. WITHIN PARTITIONS, CEILINGS, FLOORING, AND ALL ITEMS BEING REMOVED; REMOVE ELECTRICAL CONDUCTORS BACK TO SOURCE IF CIRCUITS ARE TO BE RELOCATED OR REINSTALLED IN NEW WORK DE-ENERGIZE CIRCUITS UNTIL RELOCATED.
23. TEMPORARY SHORING TO BE PROVIDED AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRETY OF EXISTING FACILITY. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IMMEDIATELY IF FIELD CONDITIONS DO NOT ALLOW FOR ADEQUATE SHORING.



C ALTERATION ROOF PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16' NORTH



B REFLECTED CEILING PLAN - ALTERATION
1/8" = 1'-0"
0' 2' 4' 8' 16' NORTH



A FIRST FLOOR ALTERATION PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16' NORTH

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK
ALTERATION PLANS

blueriver ARCHITECTS
A Native American Owned Firm

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STATE OF OKLAHOMA · THOMAS C. SEAT · No. 4183 · TULSA, OK · LICENSED ARCHITECT

2/12/2024

ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

SHEET NUMBER:
AD101

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PARTITION TYPES NAMING CONVENTION

STRUCTURE		SUB-TYPE	
A	7/8" HAT CHANNEL	a	6" ABOVE CEILING, BRACED HEAD (OR STR TO STRUCTURE ABOVE IF UNDER 24")
B	1 5/8" METAL STUD	b	TO UNDERSIDE OF STRUCTURE ABOVE
C	2 1/2" METAL STUD	c	STR TO UNDERSIDE OF STRUCTURE ABOVE, GYP TO 6" ABOVE CEILING
D	3 5/8" METAL STUD	d	STR & GYP ONE SIDE TO STRUCTURE, GYP OTHER SIDE TO 6" ABOVE CEILING
E	4" METAL STUD	f	FURRING: 6" ABOVE CEILING
F	6" METAL STUD	g	FURRING: TO UNDERSIDE OF STRUCTURE
G	3 5/8" DOUBLE METAL STUD	h	FURRING: PARTIAL HEIGHT
J	2 1/2" C-H METAL STUD	l	LEAD LINED
K	4" C-H METAL STUD	p	PARTIAL HEIGHT
L	6" C-H METAL STUD	r	SHEAR WALL: REFER TO STRUCTURAL
M	2x4 WOOD STUD	s	SOUND: TO STRUCTURE ABOVE, SOUND BATTS
N	2x6 WOOD STUD	v	SOUND PART: (2) LAYERS GYP ONE SIDE (1) LAYER OTHER SIDE, SOUND BATTS
P	4" CMU	w	SOUND PART: (2) LAYERS GYP, SOUND BATTS
Q	6" CMU		
R	8" CMU		
S	12" CMU		
Z	1 1/2" "Z" FURRING CHANNEL		

FIRE RESISTANCE RATING		SMOKE RATED	
0	NON-RATED	X	SMOKE PARTITON, SMOKE BARRIER OR WALL RESISTING THE PASSAGE OF SMOKE
1	1 HOUR		
2	2 HOUR		
3	3 HOUR		
4	4 HOUR		

EXAMPLE

Ds / 1X
- Ds: STRUCTURE / SUB-TYPE
- 1X: SMOKE RATED (OPTIONAL) / FIRE RATING

D = 3 5/8" METAL STUD
s = SOUND PARTITION
1 = 1 HR FIRE RESISTANCE RATING
X = SMOKE RATED PARTITON

GENERAL NOTE:
ALL INTERIOR WALLS TO HAVE SOUND ATTENUATION

ROOF PLAN GENERAL NOTES

1. ALL ROOFING SURFACES TO SLOPE 1/4" VERTICAL PER 1'-0" HORIZONTAL MINIMUM, UNLESS NOTED OTHERWISE.
2. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL ELECTRICAL AND PLUMBING EQUIPMENT AS REQUIRED WITHIN ATTIC SPACE FOR SERVICE ACCESS. WALKWAY PROTECTION IS INDICATED AS GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT.
3. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. GUTTERS AND DOWNSPOUTS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.
5. PROVIDE RIDGE CAPS AT ALL ROOF RIDGES.

REFLECTED CEILING PLAN LEGEND

- 2X2 LAY IN LENS
- 2X4 LAY IN LENS
- ACOUSTIC CEILING TILE (ACT-1)
- GYPSUM BOARD
- RECESSED CAN LIGHT
- EXISTING SURFACE MOUNTED FIXTURE, RELOCATED AS REQUIRED
- LINEAR LIGHT FIXTURE, REFER TO ELECTRICAL
- SUPPLY DIFFUSER
- RETURN
- EXHAUST FAN
- X' - X" CEILING HEIGHT
- EXTERIOR SOFFIT

EQUIPMENT SCHEDULE

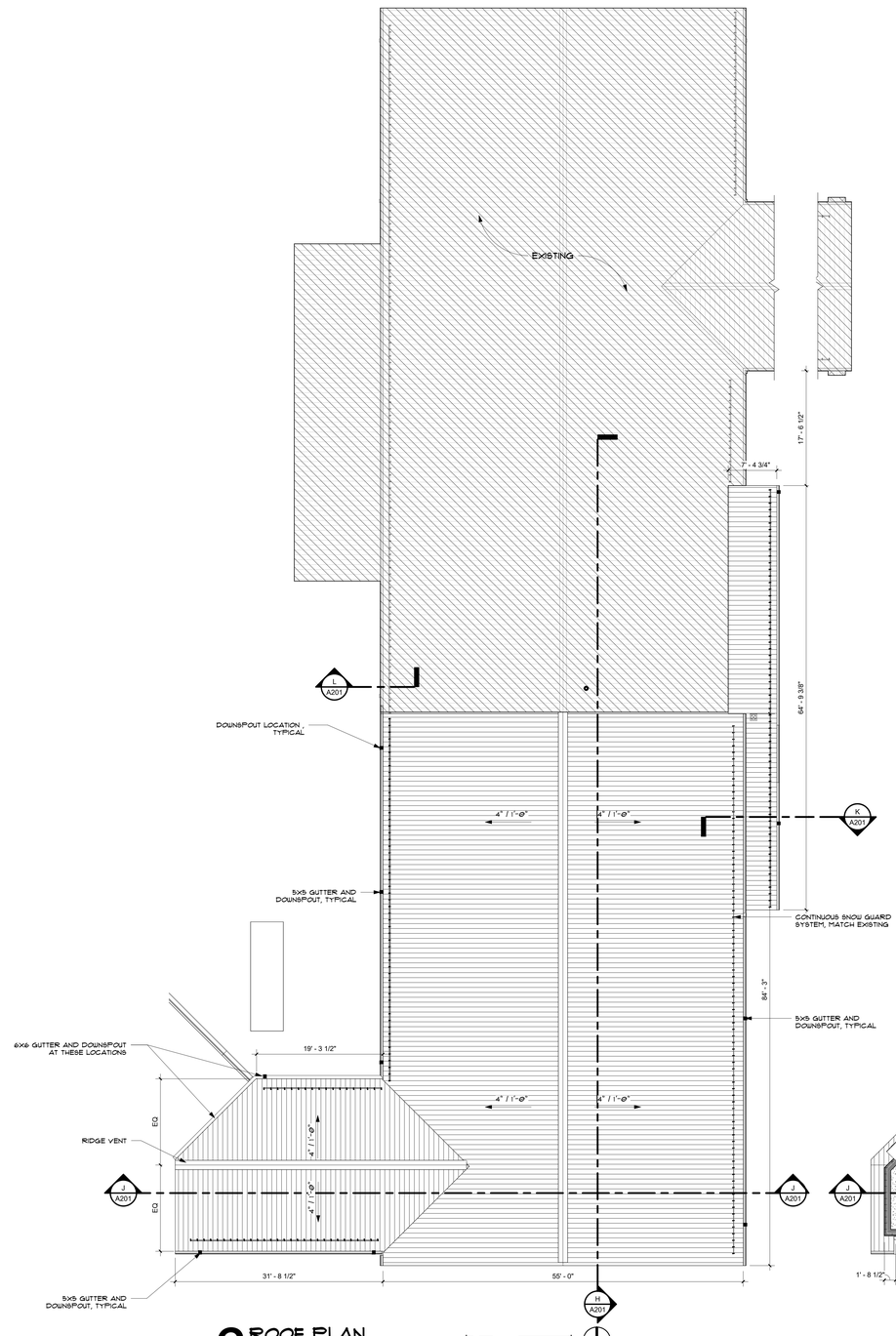
Ø1	FLOOR MOUNTED STEEL BOLLARD, FIELD VERIFY PRIOR TO INSTALLATION, PAINT PT-4
Ø2	DOCK SHELTER, BASIS OF DESIGN: RITEHITE ECLIPSE NH
Ø3	EDGE OF DOCK MANUAL LEVELER SYSTEM, BASIS OF DESIGN: RITEHITE RHE-3Ø0
Ø4	OWNER FURNISHED SELF-SERVICE POINT OF SALE
Ø5	MAN DOOR AIR CURTAIN, REFER TO MECHANICAL
Ø6	INDUSTRIAL SHELVING, CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

REFLECTED CEILING PLAN NOTES

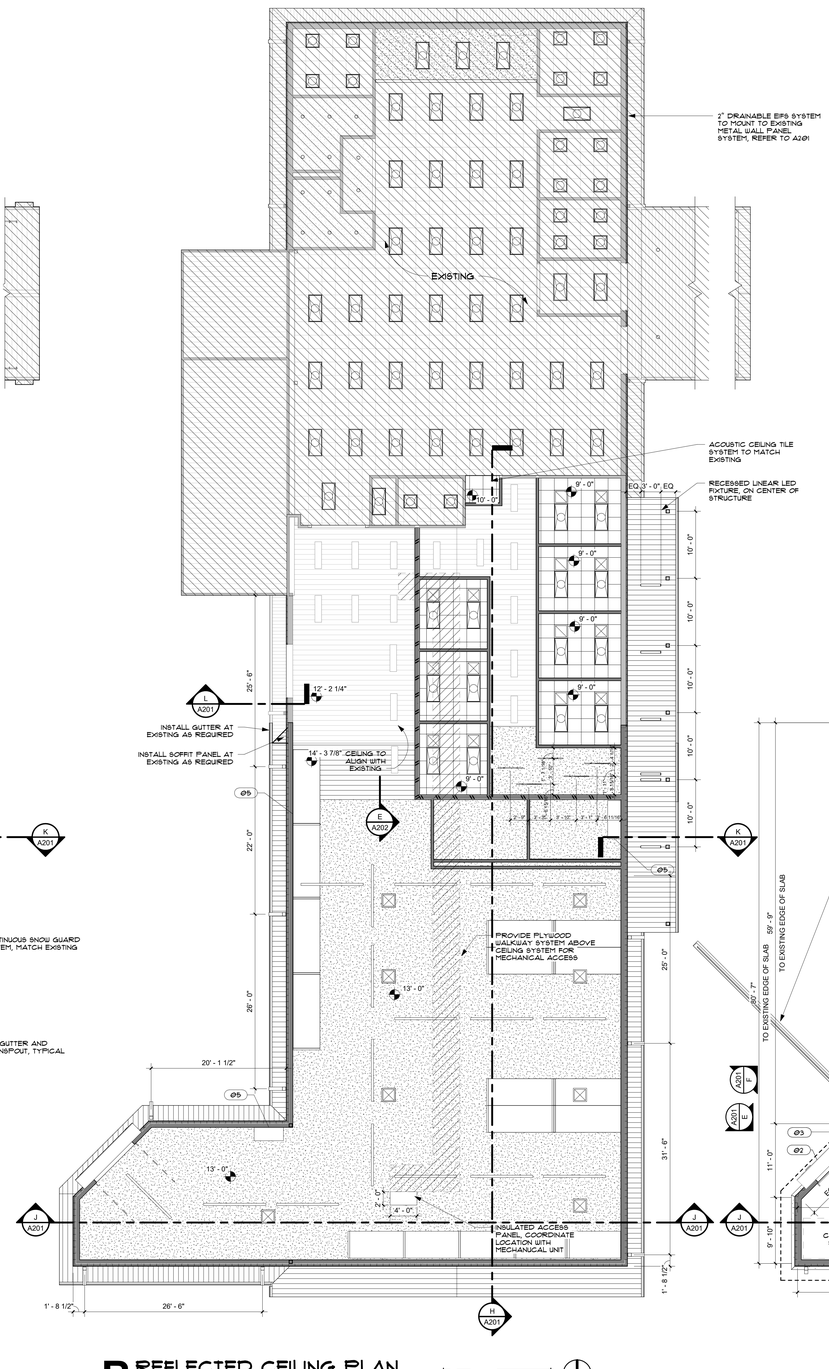
1. ALL CEILINGS SHALL BE 9' - Ø" AFF, UNLESS NOTED OTHERWISE.
2. ALL CEILING FINISHES TO BE ACT-1, UNLESS NOTED OTHERWISE. ALL CEILING GRIDS TO BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
3. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
4. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
5. LIGHTS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, DIFFUSERS, STROBES, AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
6. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT. REFER TO G4Ø3 FOR MORE INFORMATION ON THE LOCATION OF THESE AND OTHER LIFE SAFETY ITEMS.
7. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS AND MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.
8. PROVIDE GYPSUM BOARD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS OR ORIENTATIONS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIAL.
9. EQUIPMENT SHOWN IN DASH AND/OR HALFTONE SHALL BE OWNER FURNISHED, OWNER INSTALLED. EQUIPMENT IS SHOWN HERE FOR COORDINATION AND BACKING PURPOSES ONLY. MAKES AND MODELS SHALL BE CONFIRMED WITH OWNER.
10. ALIGN ALL SOFFITS AND / OR BULKHEADS WITH ADJACENT WALLS, UNLESS NOTED OTHERWISE.
11. PROVIDE PLYWOOD WALKWAY SYSTEM ABOVE CEILING SYSTEM FOR ACCESS BETWEEN ABOVE CEILING MECHANICAL SYSTEMS.

FLOOR PLAN GENERAL NOTES

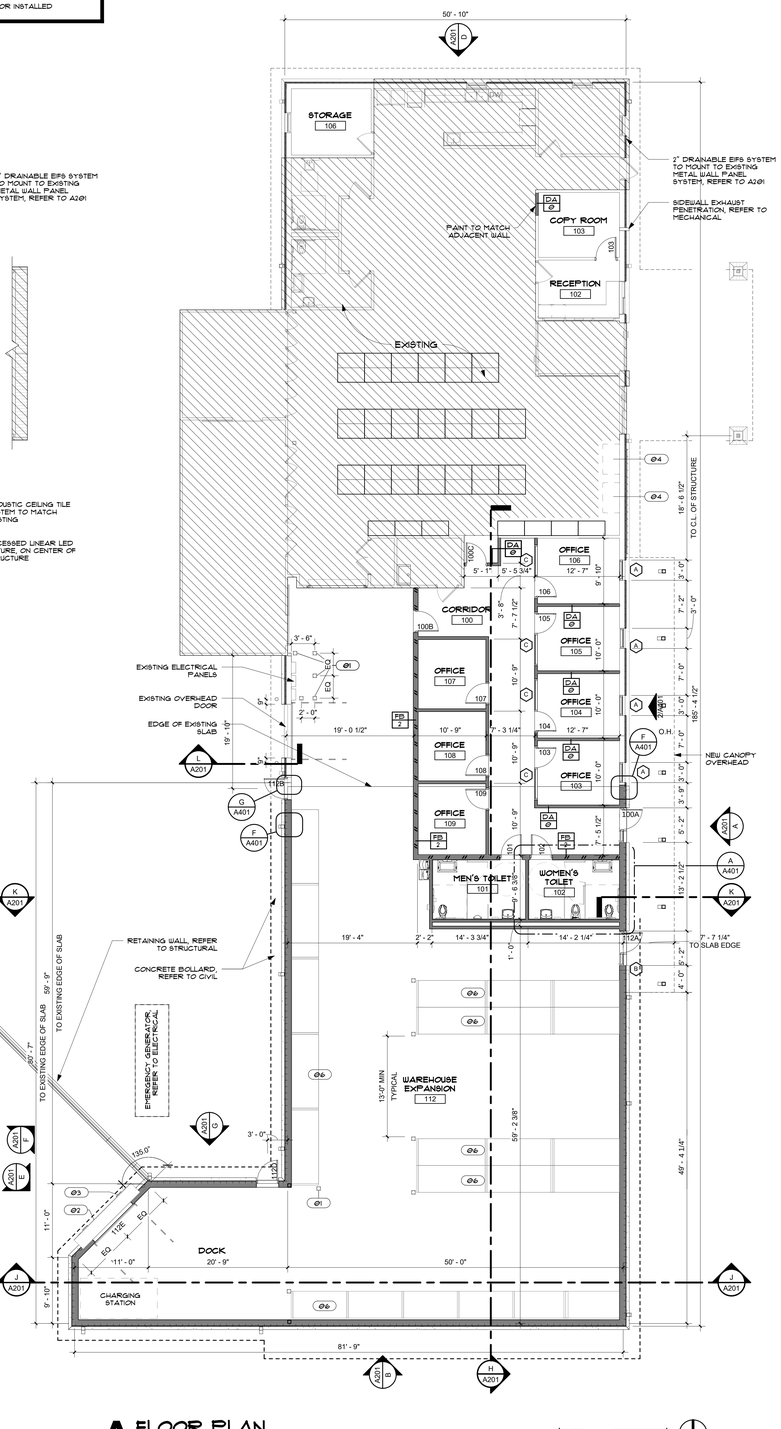
1. ALL INTERIOR DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE.
3. UNLESS DIMENSIONED OTHERWISE, PARTITIONS ON GRIDLINES WILL BE ALIGNED TO CENTERLINE OR FACE OF STUD.
4. INTERIOR PARTITIONS ARE TYPE DA/Ø UNLESS NOTED OTHERWISE. REFER TO A1Ø1 FOR PARTITION TYPES.
5. UNLESS DIMENSIONED OTHERWISE, ALL DOOR FRAMES TO BE LOCATED 4" FROM ADJACENT PERPENDICULAR WALL.
6. WHEN WALL PARTITIONS OF DIFFERENT FIRE OR SOUND RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL TAKE PRECEDENT.
7. EQUIPMENT SHOWN IN DASH AND/OR HALFTONE SHALL BE OWNER FURNISHED, OWNER INSTALLED. EQUIPMENT IS SHOWN HERE FOR COORDINATION AND BACKING PURPOSES ONLY. MAKES AND MODELS SHALL BE CONFIRMED WITH OWNER. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER. COORDINATE UTILITIES FOR EQUIPMENT WITH OWNER'S EQUIPMENT LIST AND MEP DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND COORDINATE ALL EQUIPMENT WITH OWNER, INCLUDING BUT NOT LIMITED TO WEIGHT, LOCATION, BACKING REQUIREMENTS POWER AND CLEARANCES.
8. REFER TO A4Ø1 FOR DOOR SCHEDULE AND DETAILS
9. REFER TO I2Ø1 FOR FINISH INFORMATION, SCHEDULES, AND DETAILS.
10. REFER TO A2Ø1 SERIES FOR EXTERIOR ELEVATIONS
11. REFER TO A4Ø1 AND I2Ø1 FOR FLOOR FINISH AND ENLARGED PLANS.
14. DOOR DIMENSIONS ARE TO CENTER LINE UNLESS NOTED OTHERWISE.



C ROOF PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH



B REFLECTED CEILING PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH



A FLOOR PLAN
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

FLOOR PLAN AND ELEVATIONS

blue river ARCHITECTS
A Native American Owned Firm

320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

STATE OF OKLAHOMA
THOMAS C. SEAT
No. 4183
TULSA, OK
LICENSED ARCHITECT

2/12/2024

ARCHITECT: Thomas Seat
LICENSE # 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date
1		

SHEET NUMBER:
A101

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ELEVATION MATERIAL LEGEND

GENERAL NOTES

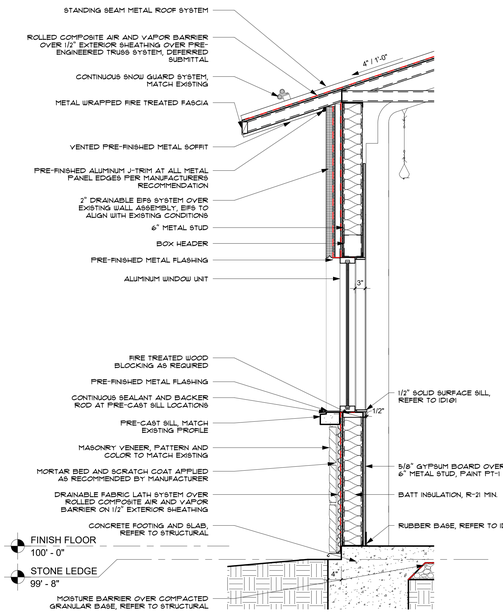
1. DETAILS ON EXTERIOR ELEVATIONS ARE GENERAL IN NATURE AND FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO WALL DETAILS AND SECTIONS FOR DETAILED INFORMATION CONCERNING EXTERIOR CONSTRUCTION.
2. REFER TO FLOOR PLANS, SECTIONS, WALL DETAILS, AND STRUCTURAL DRAWINGS FOR COMPLETE INFORMATION.
3. REFER TO ELECTRICAL FOR EXTERIOR LIGHTING.

EQUIPMENT SCHEDULE

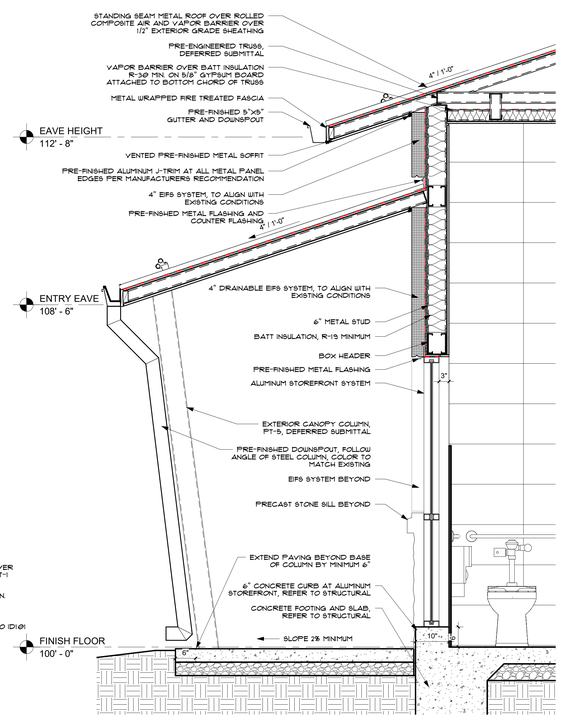
LIGHTING, REFER TO ELECTRICAL

MATERIAL KEY

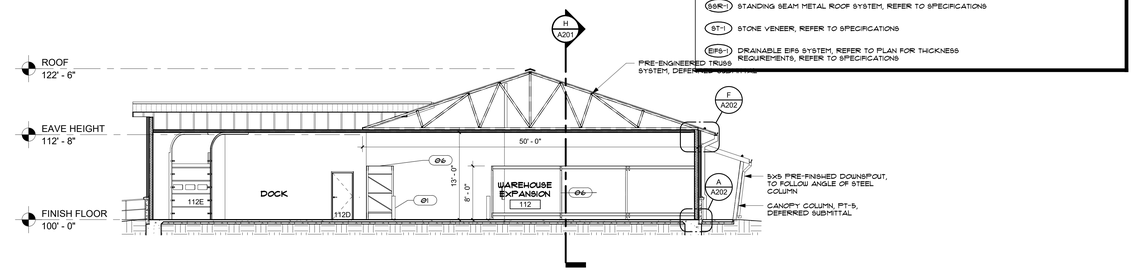
- SSR-1 — STANDING SEAM METAL ROOF SYSTEM, REFER TO SPECIFICATIONS
- ST-1 — STONE VENEER, REFER TO SPECIFICATIONS
- EIFS-1 — DRAINABLE EIFS SYSTEM, REFER TO PLAN FOR THICKNESS REQUIREMENTS, REFER TO SPECIFICATIONS



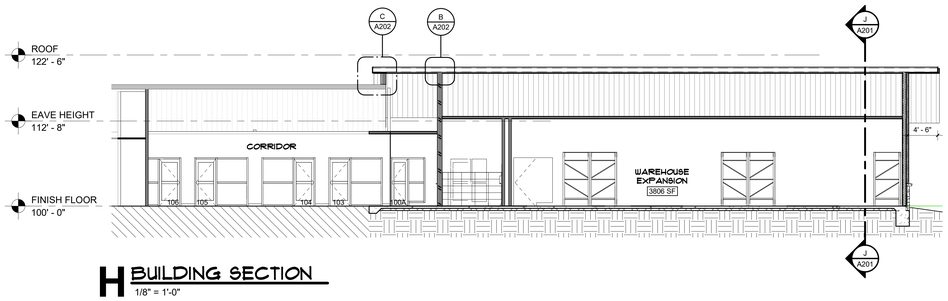
L EXISTING CONDITION WALL SECTION
3/4" = 1'-0"



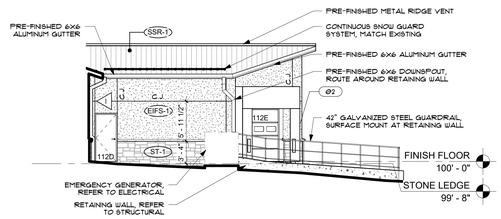
K WALL SECTION
3/4" = 1'-0"



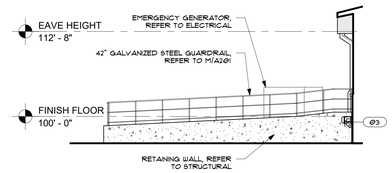
J BUILDING SECTION
1/8" = 1'-0"



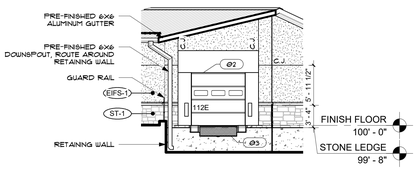
H BUILDING SECTION
1/8" = 1'-0"



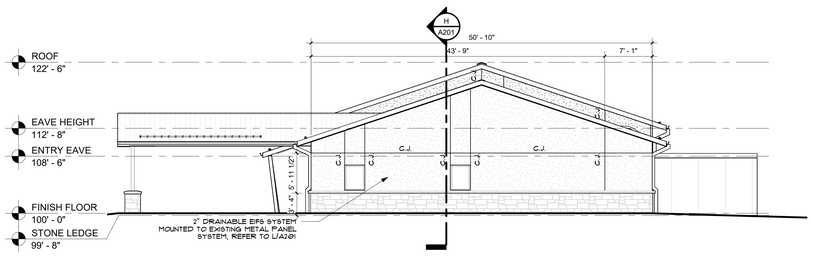
G EXTERIOR ELEVATION
1/8" = 1'-0"



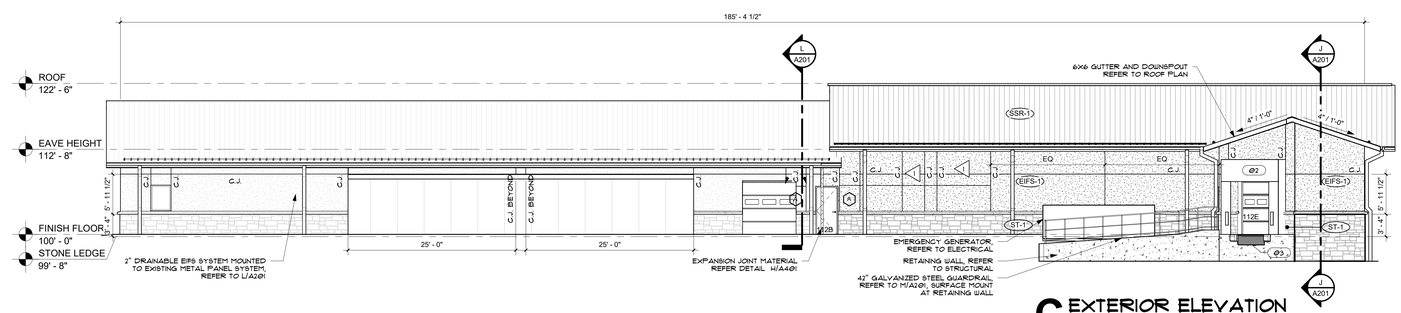
F EXTERIOR ELEVATION
1/8" = 1'-0"



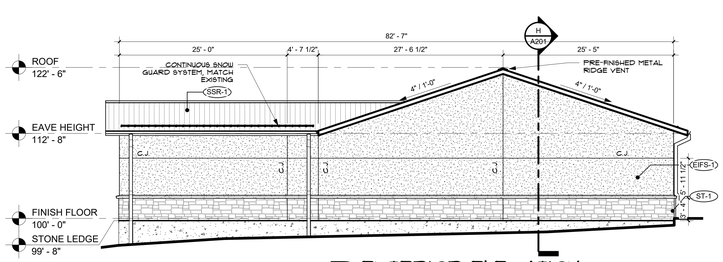
E EXTERIOR ELEVATION
1/8" = 1'-0"



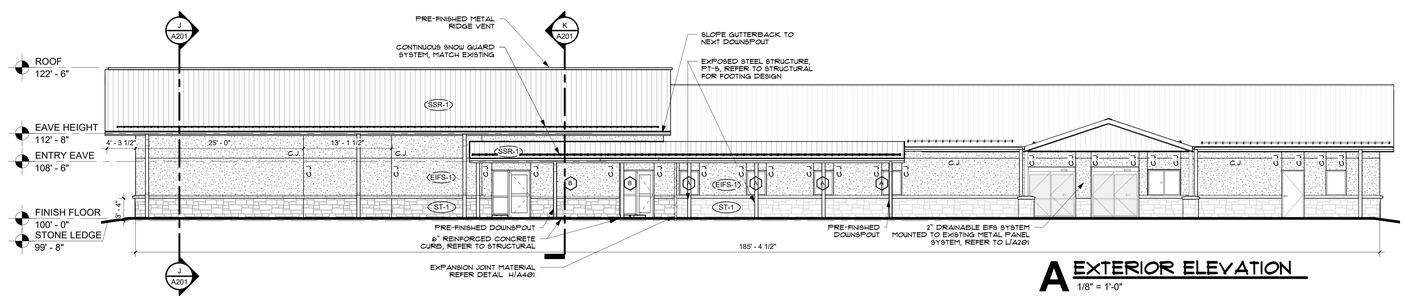
D EXTERIOR ELEVATION
1/8" = 1'-0"



C EXTERIOR ELEVATION
1/8" = 1'-0"



B EXTERIOR ELEVATION
1/8" = 1'-0"



A EXTERIOR ELEVATION
1/8" = 1'-0"

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A Native American Owned Firm

CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK
ELEVATIONS AND SECTIONS

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A Native American Owned Firm
320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

STATE OF OKLAHOMA · THOMAS C. SEAT · No. 4183 · TULSA · OK · LICENSED ARCHITECT
2/12/2024

ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

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ELEVATION MATERIAL LEGEND

GENERAL NOTES

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2. REFER TO FLOOR PLANS, SECTIONS, WALL DETAILS, AND STRUCTURAL DRAWINGS FOR COMPLETE INFORMATION.
3. REFER TO ELECTRICAL FOR EXTERIOR LIGHTING.

EQUIPMENT SCHEDULE

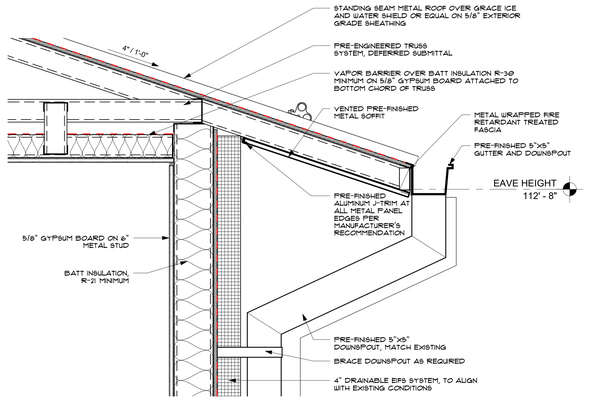
LT-1 LIGHTING, REFER TO ELECTRICAL

MATERIAL KEY

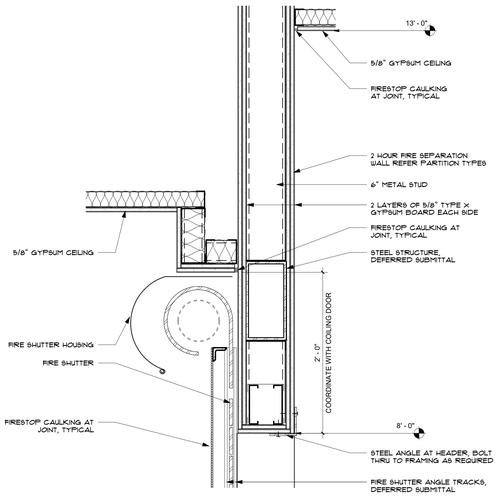
SSR-1 STANDING SEAM METAL ROOF SYSTEM, REFER TO SPECIFICATIONS

ST-1 STONE VENEER, REFER TO SPECIFICATIONS

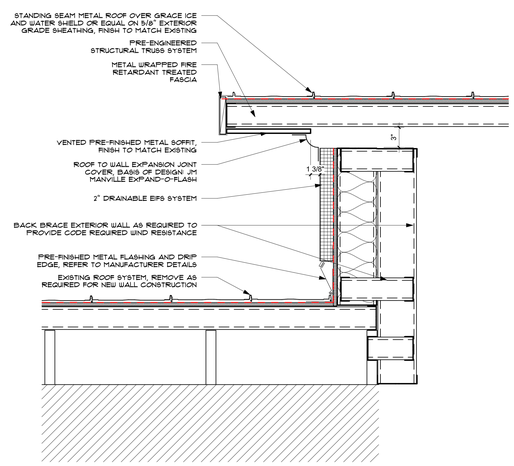
EIFS-1 DRAINABLE EIFS SYSTEM, REFER TO PLAN FOR THICKNESS REQUIREMENTS, REFER TO SPECIFICATIONS



F WALL DETAIL
1 1/2" = 1'-0"



E WALL DETAIL
1 1/2" = 1'-0"



C WALL DETAIL
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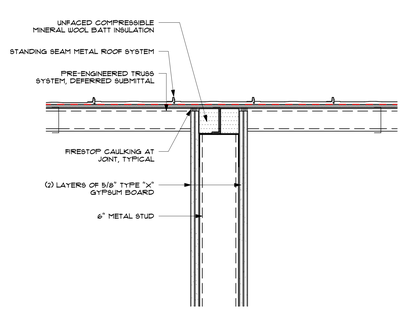
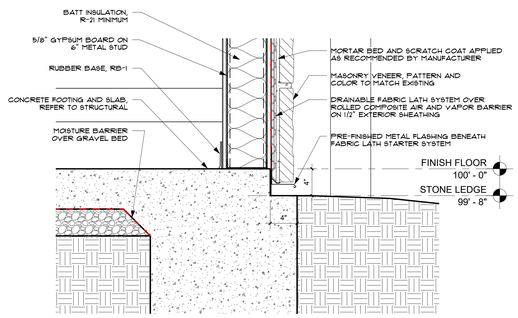
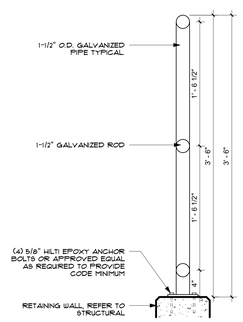


B WALL DETAIL
1 1/2" = 1'-0"



A WALL DETAIL
1 1/2" = 1'-0"



D GUARDRAIL DETAIL
1 1/2" = 1'-0"

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

SECTION DETAILS

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918-877-9036
blueriverarchitects.com

STATE OF OKLAHOMA
THOMAS C. SEAT
No. 4183
TULSA, OK
LICENSED ARCHITECT

2/12/2024

ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

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A202

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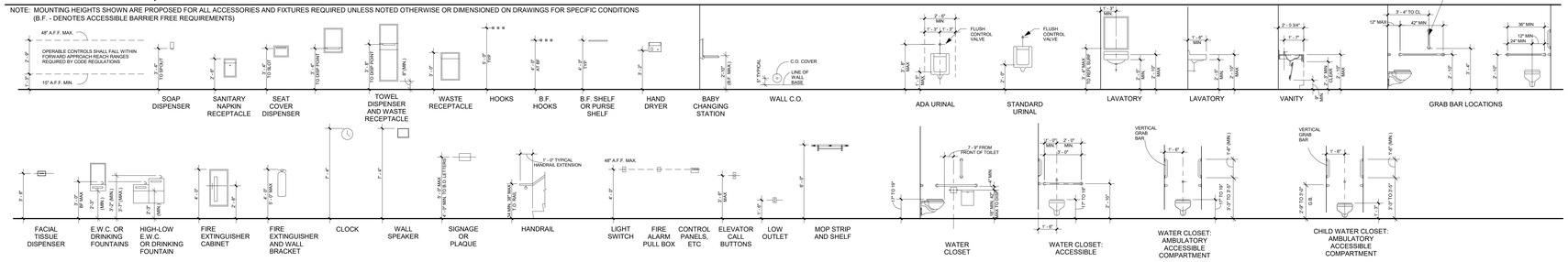
MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES

NOTE: MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS NOTED OTHERWISE OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS
(B.F. - DENOTES ACCESSIBLE BARRIER FREE REQUIREMENTS)



GLAZING TYPES

GL-1	ALL INTERIOR GLAZING TO BE 1/4" TEMPERED GLAZING UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS
GL-2	ALL EXTERIOR GLAZING TO BE 1" INSULATED LOW-E TEMPERED GLAZING, UNLESS NOTED OTHERWISE TEMPERED GLAZING UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS

DOOR SCHEDULE

DOOR NO.	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	DOOR TYPE	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	HARDWARE	COMMENTS
100A	3' - 0"	7' - 0"	AL/GL	CLR ANOD.	B1	AL	CLR. ANOD.		ENTRY LOCKSET	1, 3
100B	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		8
100C	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A	PRIVACY LOCKSET	
100C	8' - 0"	8' - 0"	AL/GL	CLR ANOD.		AL	CLR. ANOD.	G		5, 7
101	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		8
102	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		8
103	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A	STORAGE LOCKSET	6
103	3' - 0"	7' - 0"	AL/GL	CLR ANOD.	B1	AL	CLR. ANOD.	G	OFFICE LOCKSET	4
104	3' - 0"	7' - 0"	AL/GL	CLR ANOD.	B1	AL	CLR. ANOD.	G	OFFICE LOCKSET	4
105	3' - 0"	7' - 0"	AL/GL	CLR ANOD.	B1	AL	CLR. ANOD.	G	OFFICE LOCKSET	4
106	3' - 0"	7' - 0"			B1				OFFICE LOCKSET	4
107	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		
108	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		
109	3' - 0"	7' - 0"	WD	PT-2	A1	HM	PT-2	A		
112A	3' - 0"	7' - 0"	AL/GL	CLR ANOD.	B1	AL	CLR. ANOD.	G	ENTRY LOCKSET	1,3
112B	3' - 0"	7' - 0"	HM	PT-2	A1	HM	PT-2	A		1, 6
112D	3' - 0"	7' - 0"	HM	PT-2	A1	HM	PT-2	A		1
112E	8' - 0"	8' - 0"								5, 7

1. DOOR TO RECEIVE PANIC HARDWARE
2. INSULATED OVERHEAD COILING DOOR, FIRE RATED ASSEMBLY
3. ALL EXTERIOR DOORS TO RECEIVE AUTOMATIC CLOSER AND DRIP EDGE
4. PROVIDE FULL GLASS LITE
5. INSULATED OVERHEAD SECTIONAL DOOR, COORDINATE WITH MANUFACTURER TO PROVIDE CYLINDER FOR LOCKDOWN
6. DOOR TO BE REMOVED PRIOR TO DEMOLITION AND RE-USED
7. PROVIDE STEEL ANGLES AT INTERIOR FACE OF EXTERIOR OVERHEAD DOORS, REFER TO STRUCTURAL
8. DOOR TO INCLUDE 90-MINUTE RATING

TOILET ACCESSORIES LEGEND

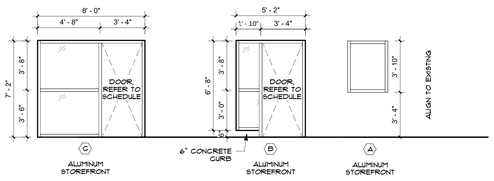
PLAN DESIGNATOR: (TXX)

NO.	DESCRIPTION	C.F.C.I.	O.F.C.I.	O.F.O.I.	MANUFACTURER	MODEL NUMBER
T01	GLASS MIRROR WITH STAINLESS STEEL CHANNEL FRAME	○			BRADLEY	781-2436
T02	SURFACE-MOUNTED TOILET TISSUE DISPENSER, TWO ROLLS	○			BRADLEY	5054
T03	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	○			BRADLEY	4722-15
T04	SOAP DISPENSER, WALL-MOUNTED		○			
T05	PAPER TOWEL DISPENSER		○			
T06	CHANGING TABLE			○		
T07	1-1/2" DIAMETER STAINLESS STEEL GRAB BAR	○			BRADLEY	001-36
T08	1-1/2" DIAMETER STAINLESS STEEL GRAB BAR	○			BRADLEY	001-42
T09	1-1/2" DIAMETER STAINLESS STEEL GRAB BAR	○			BRADLEY	001-18

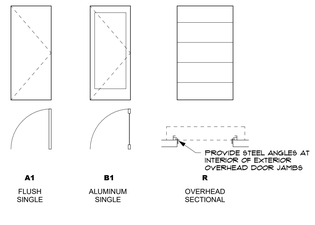
ABBREVIATIONS:
C.F.C.I. = CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
O.F.C.I. = OWNER FURNISHED, CONTRACTOR INSTALLED
O.F.O.I. = OWNER FURNISHED, OWNER INSTALLED
PROVIDE BACKING AT CHANGING TABLE FOR FUTURE INSTALLATION

EQUIPMENT SCHEDULE

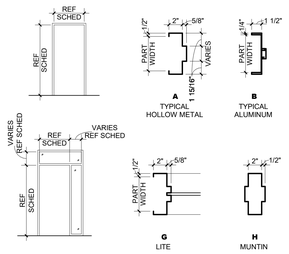
Ø1	FLOOR MOUNTED STEEL BOLLARD, FIELD VERIFY PRIOR TO INSTALLATION, PAINT PT-4
Ø2	DOCK SHELTER, BASIS OF DESIGN: RITEHITE ECLIPSE NH
Ø3	EDGE OF DOCK MANUAL LEVELER SYSTEM, BASIS OF DESIGN: RITEHITE RHE-3000
Ø4	OWNER FURNISHED SELF-SERVICE POINT OF SALE



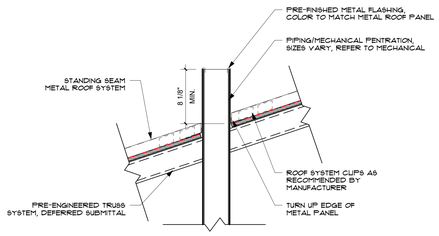
WINDOW TYPES
NTS



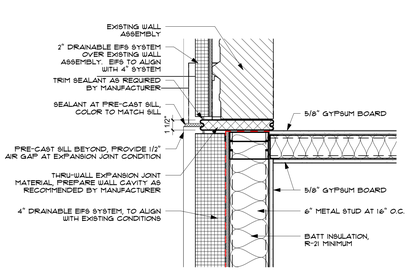
DOOR TYPES
1/4" = 1'-0"



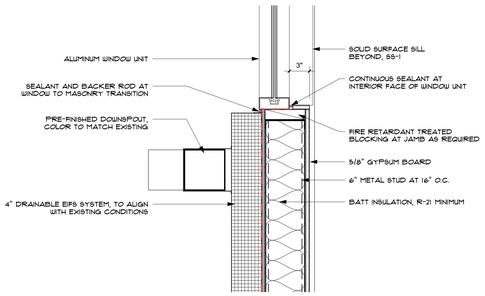
FRAME TYPES
1 1/2" = 1'-0"



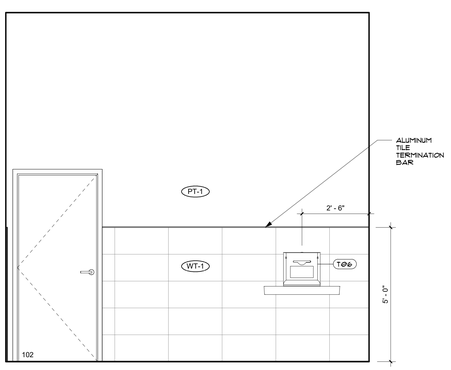
H TYPICAL ROOF PENETRATION
1 1/2" = 1'-0"



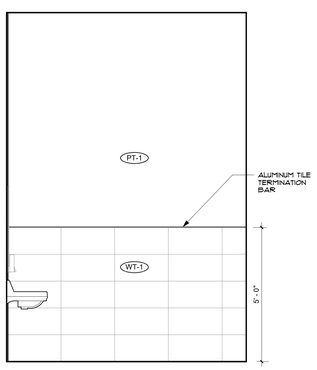
G WALL DETAIL
1 1/2" = 1'-0"



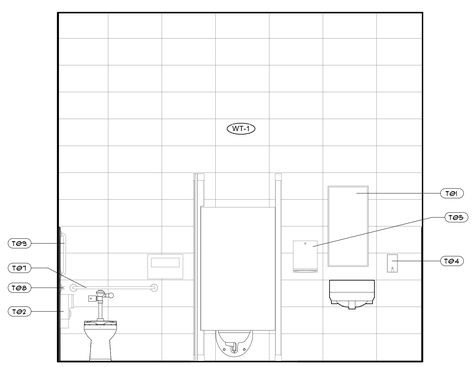
F WALL DETAIL
1 1/2" = 1'-0"



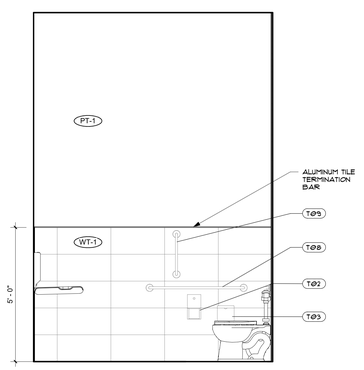
E INTERIOR ELEVATION
1/2" = 1'-0"



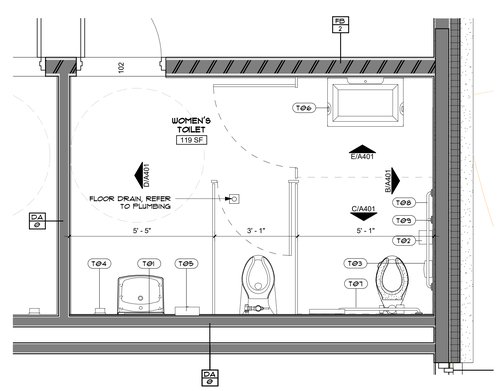
D INTERIOR ELEVATION
1/2" = 1'-0"



C INTERIOR ELEVATION
1/2" = 1'-0"



B INTERIOR ELEVATION
1/2" = 1'-0"



A ENLARGED TOILET PLAN, TYPICAL
1/2" = 1'-0"

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

ENLARGED PLANS AND ELEVATIONS

blueriver ARCHITECTS
A Native American Owned Firm

320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

STATE OF OKLAHOMA THOMAS C. SEAT No. 4183 TULSA OK LICENSED ARCHITECT

2/12/2024

ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

SHEET NUMBER:
A401

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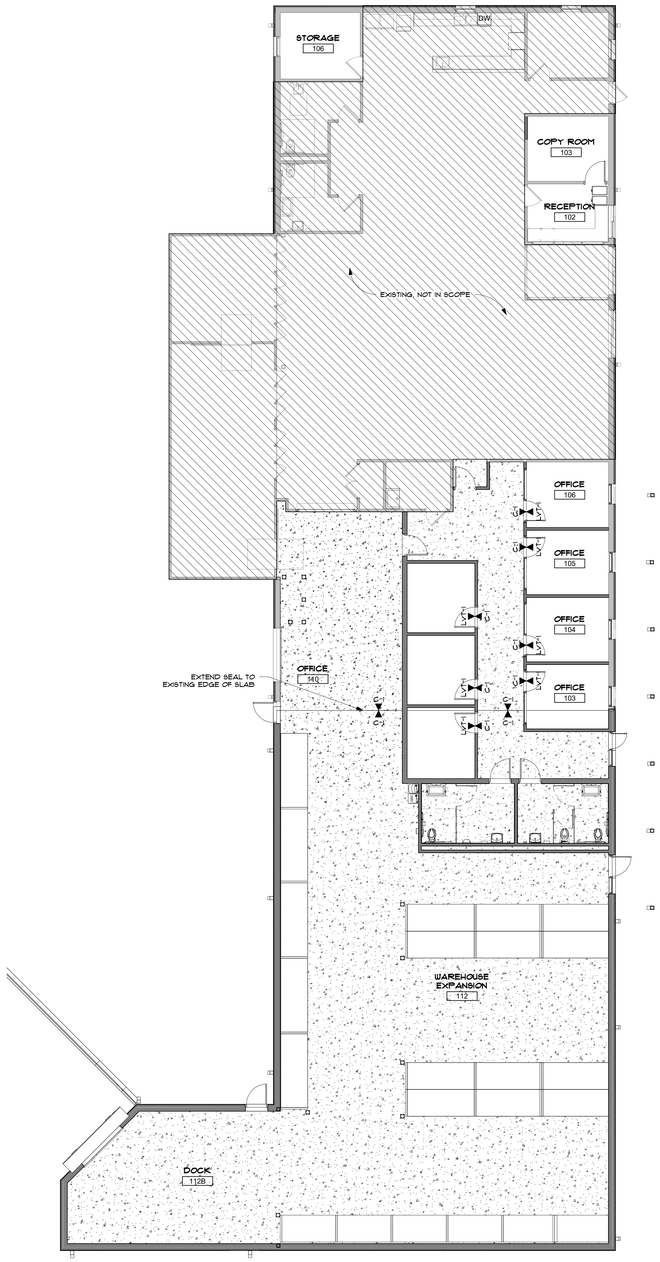

A FINISH FLOOR PLAN
1/8" = 1'-0"

FINISH FLOOR PLAN GENERAL NOTES

1. ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN ASBESTOS.
2. GRILLES IN WALLS AND CEILINGS ARE TO HAVE A FINISH TO MATCH ADJACENT SURFACE FINISH.
3. CHANGES IN FLOORING LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT REDUCING EDGE TREATMENT. CHANGES IN FLOORING LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. IF CHANGES IN FLOORING LEVEL ARE GREATER THAN 1/2", NOTIFY ARCHITECT FOR DETAILS TO PROVIDE ADA COMPLIANT RAMP.
4. IN AREAS WHERE MORE THAN ONE FINISH APPEARS, REFER TO THE FOLLOWING SHEETS FOR CLARIFICATION: INTERIOR FINISH PLAN, ENLARGED PLANS, REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR SPECIFIC LOCATIONS AND EXTENTS OF FINISHES.
5. ALL TILE GROUT TO BE EPOXY GROUT.
6. CONTRACTOR TO SUBMIT GROUT MANUFACTURER'S FULL LINE OF COLORS FOR ARCHITECT'S REVIEW AND FINAL SELECTION.
7. GROUT JOINTS SIZES TO BE MANUFACTURER'S MINIMUM GROUT JOINT RECOMMENDATION.
8. ALL ACOUSTICAL CEILING TILE PANELS AND GRID TO BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
9. ALL LAY-IN CEILING TILE TO BE ACT-1, UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLANS AND FINISH LEGEND.
10. AT ALL WALLS SHOWN TO BE TILE OR STONE, PROVIDE CEMENTITIOUS BACKER BOARD.
11. ALL WALLS THAT RECEIVE TILE TILE PATTERN TO BE CENTERED ON EACH MAIN WALL AND CONTINUE AROUND THE ROOM.
12. INTEGRAL CORNER GUARDS TO BE ON ALL VERTICAL OUTSIDE CORNERS. INSTALL AT STANDARD HEIGHT OF 10'-0".
13. USE SCHLUTER JOLLY STRIP AT ALL VERTICAL AND HORIZONTAL WALL TILE TERMINATIONS.
14. USE SCHLUTER DILEX-AHKA AT ALL WALL TILE TO FLOORING TRANSITIONS. PROVIDE END CAPS AT ALL EXPOSED ENDS.
15. PAINT FINISH ALL INTERIOR AND EXTERIOR SURFACES EXPOSED TO VIEW, UNLESS FULLY FACTORY FINISHED AND UNLESS NOTED OTHERWISE. IF A PAINT COLOR IS NOT IDENTIFIED, CONSULT ARCHITECT FOR PAINT COLOR.
16. FINAL COLOR SELECTIONS TO BE MADE BY OWNER/ARCHITECT UPON RECEIPT OF ALL MATERIAL SUBMITTALS. REVIEW SHALL NOT BEGIN UNTIL ALL MATERIALS HAVE BEEN RECEIVED.
17. ALL WINDOW SILLS TO BE SOLID SURFACE, SS-1.

PAINT
1. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-3 UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLAN.
2. ALL HOLLOW METAL DOOR FRAMES TO BE PT-2 UNLESS NOTED OTHERWISE. REFER TO DOOR SCHEDULE.
3. ALL GYPSUM WALLS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.

FLOORING
1. ALL BASE FINISH FOR GYPSUM WALLS TO BE RB-1 UNLESS NOTED OTHERWISE
2. ALL FLOORING TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOOR, UNLESS NOTED OTHERWISE

FINISH LEGEND

FLOOR FINISH
LVT-1 LUXURY VINYL TILE
MANUF: MOHAWK
STYLE: U358 BRICK

C-1 SEALED CONCRETE
MANUF: W.R. MEADOWS
STYLE: LOCI-HARD

BASE FINISH
RB-1 RUBBER BASE
MANUF: TARKETT
STYLE: 4" COVE
COLOR: 29 MOON ROCK

WALL FINISH
PT-1 GENERAL WALL PAINT
MANUF: SHERWIN WILLIAMS
STYLE: EGGSHELL
COLOR: 7035 AESTHETIC WHITE

PT-2 DOOR FRAME PAINT (HM ONLY)
MANUF: SHERWIN WILLIAMS
STYLE: SEMI-GLOSS
COLOR: 7668 MARCH WIND

WT-1 TOILET WAINSCOT TILE
MANUF: CROSSVILLE
STYLE: SLIPSTREAM 12X24

CEILING FINISH
ACT-1 ACOUSTICAL CEILING TILE
MANUF: ARMSTRONG
STYLE: FINE FISSURED
SQUARE LAY-IN 1728
COLOR: WHITE
SIZE: 2' X 2'
GRID: PRELUDE 15/16", WHITE

PT-3 GYPSUM CEILING PAINT
MANUF: SHERWIN WILLIAMS
STYLE: FLAT
COLOR: 7035 AESTHETIC WHITE

MISCELLANEOUS
PLAM-1 PLASTIC LAMINATE (DOORS)
MANUF: WILSONART
COLOR: LANDMARK WOOD 7581

SS-1 SOLID SURFACE
MANUF: CORIAN
COLOR: LINEN
ALL WINDOU TO RECEIVE SOLID SURFACE SILL

PT-4 BOLLARD SAFETY PAINT
MANUF: SHERWIN WILLIAMS
STYLE: SEMI-GLOSS
COLOR: 6910 DAIRY

PT-5 EXPOSED STEEL PAINT (SERIES 45)
MANUF: TNEMEC
STYLE: SEMI-GLOSS
COLOR: MATCH EXISTING EXPOSED

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH NORTH WALL	WALL FINISH EAST WALL	WALL FINISH SOUTH WALL	WALL FINISH WEST WALL	CEILING FINISH	COMMENTS
100	CORRIDOR								
101	MEN'S TOILET								
102	RECEPTION	EXISTING		PT-1					
102	WOMEN'S TOILET								
103	COPY ROOM	EXISTING				PT-1	PT-1		
103	OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
104	OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
105	OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
106	OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
106	STORAGE	EXISTING	RB-1						
107	OFFICE								
108	OFFICE								
109	OFFICE								
112	WAREHOUSE EXPANSION	C-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-3	
112B	DOCK	C-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-3	

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CHEROKEE NATION - VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

INTERIOR FINISH PLAN

blue river ARCHITECTS
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STATE OF OKLAHOMA · THOMAS C. SEAT · No. 4183 · TULSA, OK · LICENSED ARCHITECT

2/12/2024

ARCHITECT: Thomas Seat
LICENSE #: 4183

PROJECT #: 20210121.04

ISSUE DATES:
02/12/2024

No.	Description	Date

SHEET NUMBER:
ID001

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DESIGN PARAMETERS

1. DESIGN CODES AND STANDARDS

A. BUILDING CODE: IBC 2018
RISK CATEGORY — II

B. MATERIAL CODES AND STANDARDS
DESIGN LOADS:
ASCE/SEI 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
CONCRETE:
ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

2. GRAVITY LOADS

A.	ROOF DEAD LOADS	
	TOTAL SUPERIMPOSED ROOF DEAD LOAD	20 PSF
	MINIMUM ROOF DEAD LOAD (TO BE USED WITH GROSS UPLIFT)	12 PSF
B.	LIVE LOADS (UNIFORM/CONCENTRATED)	
	ROOF	20 PSF / 300 LB
	UNINHABITABLE ATTICS WITH STORAGE	20 PSF
	MEP EQUIPMENT	ACTUAL WEIGHT, RE: MEP DWGS.

3. ROOF SNOW LOAD

A.	GROUND SNOW LOAD, Pg	15 PSF
B.	FLAT ROOF SNOW LOAD, Pf	10.5 PSF
C.	SNOW EXPOSURE FACTOR, Ce	1.0
D.	SNOW LOAD IMPORTANCE FACTOR, I	1.0
E.	THERMAL FACTOR, Ct	1.0

4. WIND DESIGN DATA

A.	ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vult	108 MPH
	NOMINAL DESIGN WIND SPEED (3 SECOND GUST), Vasd	84 MPH
B.	WIND EXPOSURE CATEGORY	C
C.	INTERNAL PRESSURE COEFFICIENT, GCpi	+/- 0.18

5. EARTHQUAKE DESIGN DATA

A.	SEISMIC IMPORTANCE FACTOR, Ie	1.0
B.	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss	0.116
C.	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1	0.073
D.	SITE CLASS	D
E.	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds	0.124
F.	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1	0.117
G.	SEISMIC DESIGN CATEGORY	B

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGN AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.
5. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
6. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (A.W.S) SPECIFICATIONS.
7. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND THE ENGINEER-OF-RECORD. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
9. ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS.
10. REFERENCE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. CONNECTION OF NON-LOAD BEARING PARTITION FRAMING TO THE PRIMARY STRUCTURE SHALL ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR AND ROOF FRAMING.
11. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
13. DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE BASED UPON A PRELIMINARY SURVEY. PRIOR TO FABRICATION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT TO THE ARCHITECT AND THE ENGINEER-OF-RECORD ANY VARIATIONS FROM THE DATA SHOWN HEREIN FOR POSSIBLE REDESIGN.
14. BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.
15. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.

FOUNDATIONS

1. FOUNDATION DESIGNS, SUBGRADE PREPARATION NOTES, AND STRUCTURAL EARTH MOVING SPECIFICATION ARE BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT NUMBER G2022022, BY: GFAC ENGINEERING DATED: 03/10/2022
2. FOOTING DESIGNS ARE BASED ON A NET ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF.
3. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE STRUCTURAL EARTH MOVING SPECIFICATION.
4. A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND ENGINEER-OF-RECORD OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.
5. EXISTING UNDOCUMENTED FILL TO DEPTHS OF APPROXIMATELY 3 FEET BELOW EXISTING GRADE IS NOT SUITABLE FOR SUPPORT OF FOUNDATIIONS OR NEW STRUCTURAL FILL. UNDOCUMENTED FILL SHALL BE REMOVED ENTIRELY FROM THE BUILDING AREA AND REPLACED WITH PROPERLY COMPACTED STRUCTURAL FILL.
6. ALL VEGETATION, ROOTS, TOPSOIL AND ANY OTHER DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE CONSTRUCTION AREA. MATERIALS DISTURBED DURING CLEARING OPERATIONS SHALLL BE STABILIZED IN PLACE OR UNDERCUT TO UNDISTURBED MATRIALS AND BACKFILLED WITH PROPERLY COMPACTEED, APPROVED STRUCTURAL FILL.
7. FOUNDATIONS, TANKS, BASEMENT WALLS AND ABANDONED UTILIITY LINES FROM EXISTING STRUCTURES SHALL BE REMOVED.
8. THE EXPOSED GRADE SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 8 INCHES AND PROOF-ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK. ANY SOFT / LOOSE SOILS, ORGANIC MATERIALS, DEBRIS, OVER-SIZED ROCK FRAGMENTS, OR ANY OTHER UNSUITABLE MATERIALS ENCOUNTERED SHALL BE REMOVED FROM THE PROPOSED BUILDING AREA AND REPLACED WITHH APPROVED STRUCTURAL FILL.
9. A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY SHALL VERIFY CONFORMANCE OF THE FOUNDATION BEARING STRATA TO THE CRITERIA LISTED AND SHALL VERIFY ALL FILL COMPACTION AND PLACEMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATIING AND CONSTRUCTION.
11. STRUCTURAL FILL SHALL CONSIST OF LOW-PLASTICITY APPROVED MATERIALS THAT ARE FREE OF VEGETATION, TOPSOIL AND OTHER DELETERIOUS MATERIALS. THE ORGANIC CONTENT SHALL BE LESS THAN 4 PERCENT. STRUCTURAL FILL SHALL HAVE A LIQUID LIMIIT (LL) LESS THAN 50, A PLASTICITY INDEX (PI) LESS THAN 22. FILL SHALL BE LABORATORY TESTED TO VERIFY CONFORMANCE.
12. FILL SHALL BE PLACED IN 9 INCH LOOSE LIFTS AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) AT A MOISTURE CONTENT WITHIN 0 % BELOW TO 4% ABOVE THE OPTIMUM FOR CLAY FILLS (PLASTICITY INDEX GREATER THAN 10) AND 2 % BELOW TO 2% ABOVE THE OPTIMUM FOR CLAY FILLS WITH LOWER PLASTICITIES (PLASTICITY INDEX LESS THAN 10) . EACH LIFT OF COMPACTED ENGIINEERED FILL SHALL BE TESTED BY A GEOTECHNICAL ENGINEER.
13. THE EDGES OF COMPACTED FILL SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE EDGES OF THE STRUCTURE.
14. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PROR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL CONFIRM THE SUITABILITY OF THE BEARING MATERIAL.
15. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
16. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

GENERAL NOTES

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A.	FOOTINGS	3000 PSI
B.	FOUNDATION WALLS	4500 PSI
C.	INTERIOR SLABS-ON-GRADE	3000 PSI
D.	EXTERIOR STRUCTURAL CONCRETE	4500 PSI

MAXIMUM WATER/CEMENT RATIO = 0.45. MAXIMUM SLUMP = 8 INCHES, PLUS OR MINUS 1 INCH FOR CONCRETE WITH VERIFIED SLUMP OF 3 INCHES PLUS OR MINUS 1 INCH BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE AT PROJECT SITE. AIR CONTENT = 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR CONCRETE CONTAINING 1-INCH NOMINAL MAXIMUM AGGREGATE SIZE. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.

2. EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED. REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR AIR CONTENT.
3. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
4. REINFORCING STEEL SHALL MEET THE FOLLOWING:

	ASTM SPECIFICATION
A. DEFORMED BARS	A615, GRADE 60
B. WELDABLE DEFORMED BARS	A706, GRADE 60
C. WELDED WIRE REINFORCEMENT	A1064
D. STEEL FIBERS	A820

5. PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT PER ACI 318, UNLESS NOTED OTHERWISE.
6. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE AND ANSI / AWS D1.4 "STRUCTURAL WELDING CODE FOR REINFORCING STEEL" LATEST REVISION. ELECTRODES FOR DEFORMED BAR ANCHORS SHALL BE 90 KSI, LOW HYDROGEN.
7. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
8. "C.J." INDICATES SAW CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR ACCEPTED SAW CUT METHODS. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER-OF-RECORD.
9. PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.
11. ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REINFORCING STEEL CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

COLD FORMED METAL FRAMING (DEFERRED SUBMITTAL)

1. COLD FORMED METAL FRAMING AND THE CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
2. ALL COLD FORMED METAL FRAMING SHALL HAVE A MINIMUM THICKNESS OF 33 MILS (20 GA) AND SHALL BE SPACED AT A MAXIMUM OF 16 INCHES ON CENTER UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS AND SHALL MEET THE MINIMUM STRUCTURAL PROPERTIES FROM THE AMERICAN IRON AND STEEL INSTITUTE - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING LATEST EDITION. MINIMUM FLANGE WIDTH OF FRAMING MEMBERS SHALL BE 1 5/8 INCH AND THE LIP LENGTH OF THE C-SHAPE PORTION SHALL BE A MINIMUM OF 1/2 INCH.
3. WALL STUDS AS BACKING TO MASONRY/STONE VENEER SHALL SHALL HAVE A MINIMUM THICKNESS OF 43 MILS (18 GA).
4. COLD FORM METAL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE:

	ASTM SPECIFICATION
A. 54 MILS (16 GA) AND HEAVIER	A1003, GRADE 50 TYPE H (ST50H)
B. 43 MILS (18 GA) AND LIGHTER	A1003, GRADE 33 TYPE H (ST33H)
C. ACCESSORIES, TRACK AND OTHER MEMBERS	A1003, GRADE 33 TYPE H (ST33H), MINIMUM

5. DO NOT WELD 33 MILS (20 GA) AND LIGHTER FRAMING, UNLESS SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS.
6. COLD FORMED METAL FRAMING AND BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
7. HORIZONTAL BRACING FOR WALL STUDS SHALL BE PLACED AT 48 INCHES ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 48 INCHES ON CENTER. HORIZONTAL BRIDGING FOR JOISTS SHALL BE PLACED AT 8'-0" ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 8'-0" ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
8. ALL AXIALLY LOADED WALL STUDS SHALL HAVE FULL FLANGE BEARING AGAINST UPPER AND LOWER TRACK WEB PRIOR TO ATTACHMENT TO TRACK. SPLICES IN AXIALLY LOADED WALL STUDS ARE NOT ALLOWED.

POST INSTALLED ANCHORS

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMPLETION OF WORK.
2. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED INTO THE HOLE PER MANUFACTURER'S SPECIFICATIONS.
6. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.
7. CONTRACTOR SHALL FOLLOW THE LATEST VERSION OF MANUFACTURER'S SPECIFICATION DURING INSTALLATION OF ANCHORS.
8. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

DEFERRED STRUCTURAL SUBMITTALS (IBC 2018 SECTION 107.3.4.1)

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   A. ALL SUPERSTRUCTURE ABOVE CONCRETE SLAB ON GRADE, INCLUDING:
      i. COLD-FORMED METAL TRUSSES, WALLS, LATERAL SYSTEM, CONNECTIONS, ANCHORAGE, ETC.
      ii. STEEL CANOPY FRAMING, COLUMNS CONNECTIONS, ANCHORAGE, ETC.
      iii. COORDINATION OF EXISTING GRAVITY AND LATERAL SYSTEM AT EXISTING SOUTH WALL WITH ARCHITECTURAL DRAWINGS AND VERIFY IF A NEW SYSTEM IS REQUIRED
   B. STOREFRONT AND CURTAINWALL FRAMING, ACCESSORIES, AND ATTACHMENTS TO STRUCTURE.
   C. COLUMN AND FRAMING FOR FIRE SHUTTER
   D. OVERHEAD DOOR AND FRAMING
2. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER-OF-RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED FOR DESIGN LOADS AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CRITERIA OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SPECIAL INSPECTION REQUIREMENTS (2018)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
5. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

IBC 2018 REQUIRED SPECIAL INSPECTIONS

			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
		STEEL CONSTRUCTION - COLD FORMED STEEL DECK (IBC SECTION 1705.2.2)		
1.		SPECIAL INSPECTION AND QUALIFICATIONS OF WELDING SPECIAL INSPECTORS FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI. QA/QC.		
		STEEL CONSTRUCTION - COLD-FORMED STEEL TRUSSES (IBC SECTION 1705.2.4)		
1.		VERIFICATION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AT COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60'-0" OR GREATER.	---	X
		CONCRETE CONSTRUCTION (IBC TABLE 1705.3)		
1.		INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2.		REINFORCING BAR WELDING:		
	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	---	X
	B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
	C.	INSPECT ALL OTHER WELDS	X	
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a)		
	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
	B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A.		X
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT PRESTRESSED CONCRETE FOR:		
	A.	APPLICATION OF PRESTRESSING FORCES; AND	X	---
	B.	GROUTING OF BONDED PRESTRESSING TENDONS.	X	---
10.		INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X
11.		VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X
12.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
		SOILS (IBC TABLE 1705.6)		
1.		VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.		VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.		PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4.		VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.		PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.O.R.	ARCHITECT OF RECORD
A.R.	ANCHOR RODS
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH.	ARCHITECTURAL
B.L.	BLOCK LINTEL
B.O.D.	BOTTOM OF DECK
B.O.S.	BOTTOM OF STEEL
B.P.	BASE PLATE
BAL.	BALANCE
BLDG.	BUILDING
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CFMF	COLD FORMED METAL FRAMING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
D.B.E.	DECK BEARING ELEVATION
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EA.	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FDN.	FOUNDATION
FT.	FOOT/FEET
FTG.	FOOTING
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GA.	GAGE
GALV.	GALVANIZED
H.S.A.	HEADED STUD ANCHOR
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
IN.	INCH/INCHES
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL

ABBREVIATIONS

LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSL	LONG SLOT
LSV	LONG SIDE VERTICAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
P.A.F.	POWER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB.	PLUMBING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT

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CHEROKEE NATION - COVID PROJECTS - VINITA FDC EXPANSION
VINITA, OK
GENERAL NOTES AND STRUCTURAL SPECIAL INSPECTIONS

wallace design collective
OK. C.A. #1460, EXP. 06/30/25

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2024.02.07 09:09:43-06'00'
PROFESSIONAL STRUCTURAL ENGINEER — ANDREW M. KERN — 22259 — OKLAHOMA

PROJECT #: 2111313

ISSUE DATES:		
100% CD		02/12/2024
No.	Description	Date

SHEET NUMBER:
S001

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2/7/2024 9:07:52 AM

IN SOME INSTANCES, THE LOWER CONSISTENCY SOILS EXTEND BELOW THE RECOMMENDED UNDERCUT DEPTH. IF THE REMAINING LOWER CONSISTENCY SOILS CANNOT BE REMEDIATED IN-PLACE, REMOVAL OF THESE LOWER CONSISTENCY SOILS IS REQUIRED TO PROVIDE ADEQUATE SUPPORT FOR THE PROPOSED STRUCTURE PER THE GEOTECHNICAL REPORT.

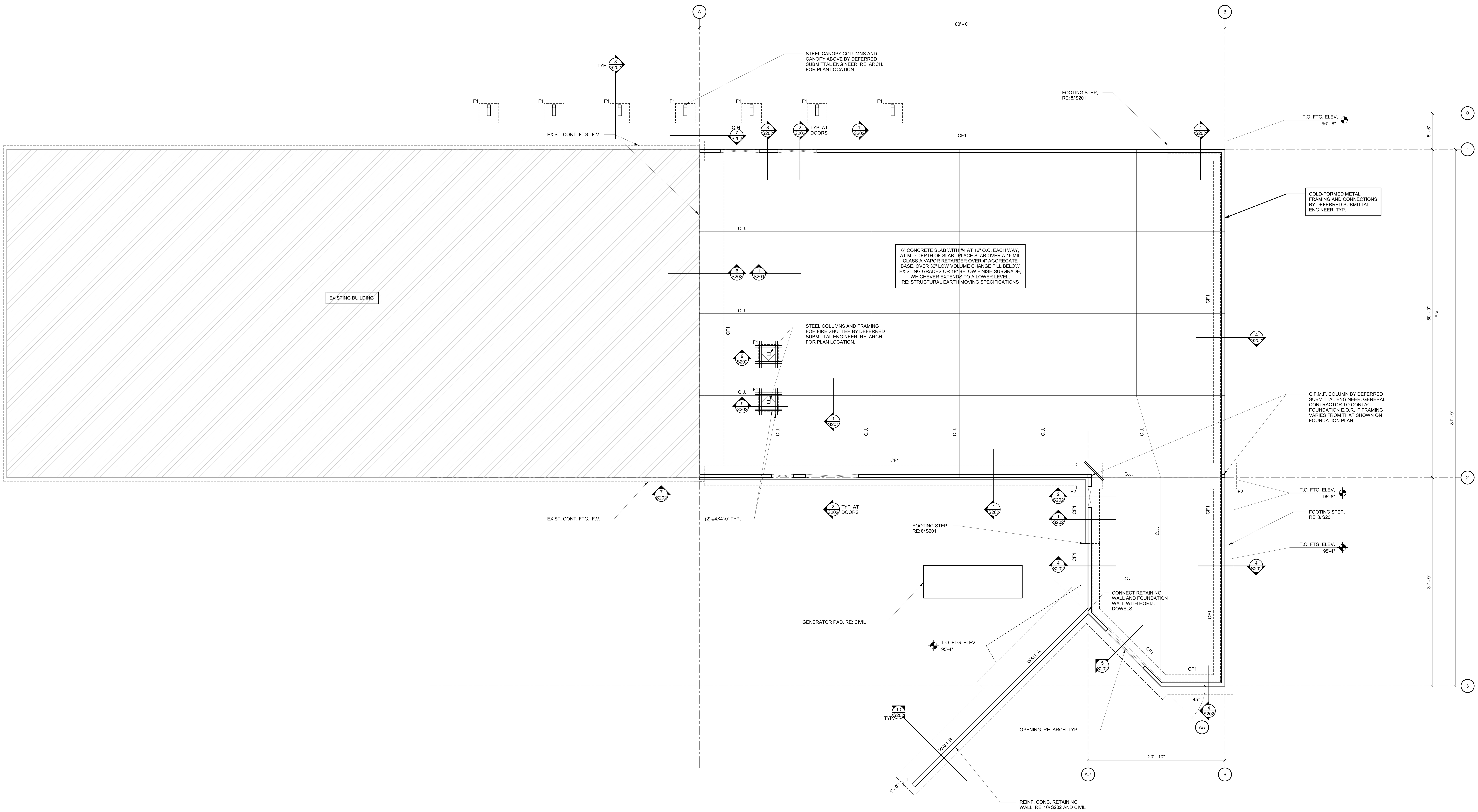
FIELD VERIFICATION NOTES:
1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORDTO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. RE: SHEET S001 GENERAL SECTION NOTE 13.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. RE: SHEET S001 GENERAL SECTION NOTE 13.

FOUNDATION PLAN NOTES

1. TOP OF CONCRETE ELEVATIONS ARE INDICATED ON PLANS.
2. REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. COORDINATE SLAB ELEVATIONS AND SLOPES WITH ARCHITECTURAL PLANS.
3. REFERENCE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF SLAB PENETRATIONS.
4. REFERENCE S001 FOR GENERAL NOTES AND S201 AND S202 FOR TYPICAL DETAILS.
5. REFERENCE S201 FOR FOOTING (F) SCHEDULES.
6. HOUSEKEEPING PADS SHALL BE 4" NORMAL WEIGHT CONCRETE PLACED ON SLAB. REINFORCE PAD WITH #3 AT 12" O.C. E.W. PLACE REINFORCING 2" DOWN FROM TOP OF CONCRETE. REFERENCE MECHANICAL OR SIZE AND LOCATION.
7. THICKEN SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN A MINIMUM 6" SLAB THICKNESS. RE: ELECTRICAL FOR LOCATION OF PADS
8. SPECIFIED TOP OF CONCRETE ELEVATIONS OF 100'-0" SHALL MATCH EXISTING TOP OF CONCRETE ELEVATIONS OF ADJACENT BUILDING.

T.O. CONCRETE ELEVATION
STRUCTURAL = 100'-0", F.V. MATCH EXIST.
ARCHITECTURAL = 100'-0"
CIVIL = 710.0'

T.O. FOOTING ELEV.=98'-8", U.N.O.
T.O. FOUNDATION WALL ELEV.=98'-8", U.N.O.



1 FOUNDATION PLAN
3/16" = 1'-0"

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CHEROKEE NATION - COVID PROJECTS - VINITA FDC EXPANSION
VINITA, OK
FOUNDATION PLAN

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2024.02.07 09:09:56-06'00'
PROFESSIONAL STRUCTURAL ENGINEER
ANDREW M. KERN
22259
OKLAHOMA

[illegible]

PROJECT #: 2111313

ISSUE DATES:		
100% CD		02/12/2024
No.	Description	Date

SHEET NUMBER:
S101

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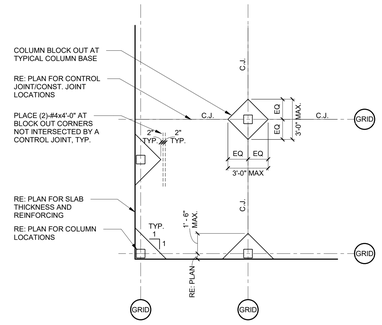
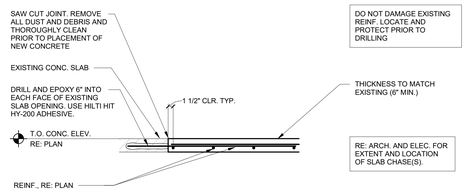
FIELD VERIFICATION NOTES:
1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORDTO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. RE: SHEET S001 GENERAL SECTION NOTE 13.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. RE: SHEET S001 GENERAL SECTION NOTE 13.

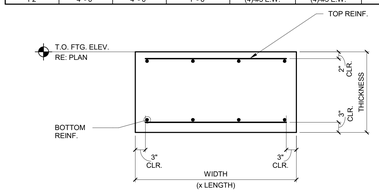


12 TYPICAL COLUMN BLOCKOUT
1/4" = 1'-0"



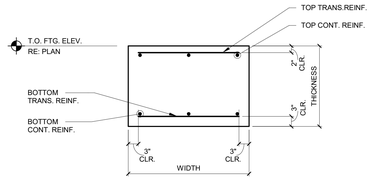
11 SLAB ON GRADE REPAIR AND INFILL DETAIL
3/4" = 1'-0"

FOOTING SCHEDULE						
MARK	SIZE			BOTTOM REINFORCING	TOP REINFORCING	NOTES
	LENGTH	WIDTH	THICKNESS			
F1	3' - 0"	3' - 0"	1' - 6"	(3)-#5 E.W.	(3)-#5 E.W.	
F2	4' - 0"	4' - 0"	1' - 6"	(4)-#5 E.W.	(4)-#5 E.W.	

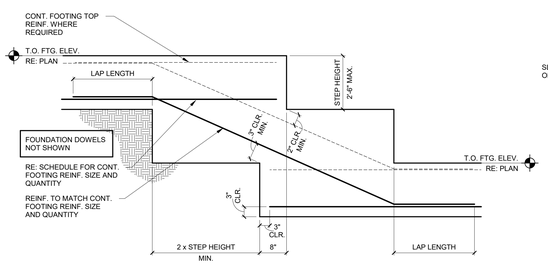


10 TYPICAL FOOTING SCHEDULE AND DIAGRAM
3/4" = 1'-0"

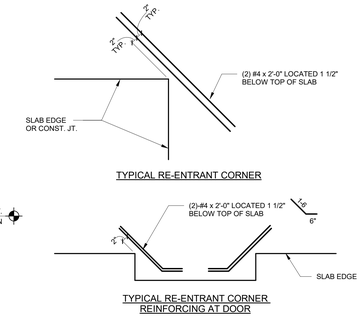
CONTINUOUS FOOTING SCHEDULE				
MARK	SIZE	REINFORCING		NOTES
	WIDTH	THICKNESS	CONTINUOUS	TRANSVERSE	
CF1	3' - 0"	1' - 6"	(3) - #5 T&B	#5 AT 12" O.C.	



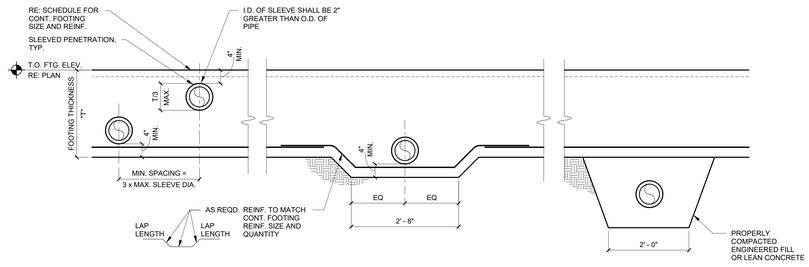
13 TYPICAL CONTINUOUS FOOTING SCHEDULE AND DIAGRAM
3/4" = 1'-0"



8 TYPICAL FOOTING STEP DETAIL
3/4" = 1'-0"

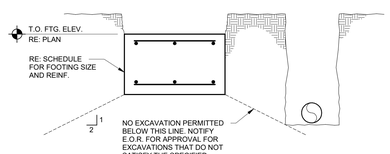


7 SLAB REINFORCEMENT
3/4" = 1'-0"

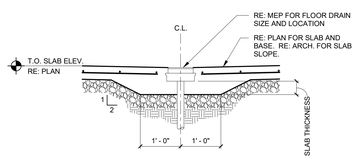


SLEEVE PENETRATIONS WITHIN THE TOP 4" OF FOOTING: LOWER SLEEVE TO PROVIDE THE MINIMUM CLEAR COVER AS SHOWN OR RAISE TO PENETRATE THROUGH THE STEM WALL. RE: TYPICAL PENETRATION THROUGH WALL DETAIL

6 TYPICAL PENETRATION THROUGH FOOTING
3/4" = 1'-0"



5 TYPICAL EXCAVATION ADJACENT TO FOOTINGS
3/4" = 1'-0"

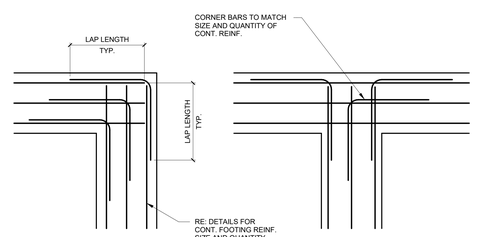


4 TYPICAL SLAB AT FLOOR DRAIN
3/4" = 1'-0"

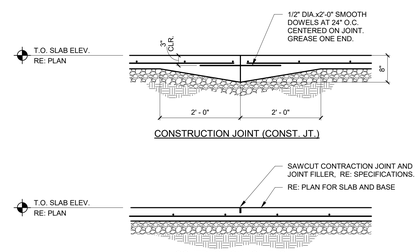
CONCRETE REINFORCING LAP LENGTH SCHEDULE				
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)			
	3000psi		4500psi	
	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	23"	18"
#4	38"	29"	31"	24"
#5	47"	36"	38"	30"
#6	56"	43"	46"	35"
#7	81"	63"	67"	51"
#8	93"	72"	76"	59"
#9	105"	81"	86"	66"
#10	118"	91"	96"	74"

NOTES:
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

3 CONCRETE REINFORCING LAP SCHEDULE
3/4" = 1'-0"



2 TYPICAL CORNER BAR DETAIL
3/4" = 1'-0"



1 TYPICAL SLAB JOINT DETAILS
3/4" = 1'-0"

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CHEROKEE NATION - COVID PROJECTS -
VINITA FDC EXPANSION
VINITA, OK
FOUNDATION DETAILS

wallace design collective
wallacedesigncollective.com
OK. C.A. #1460, EXP. 06/30/25
320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

2024.02.07 09:10:09-06'00'

PROFESSIONAL STRUCTURAL ENGINEER
ANDREW M. KERN
22159
OKLAHOMA

PROJECT #: 2111313

ISSUE DATES:	
100% CD	02/12/2024

No.	Description	Date

SHEET NUMBER:
S201

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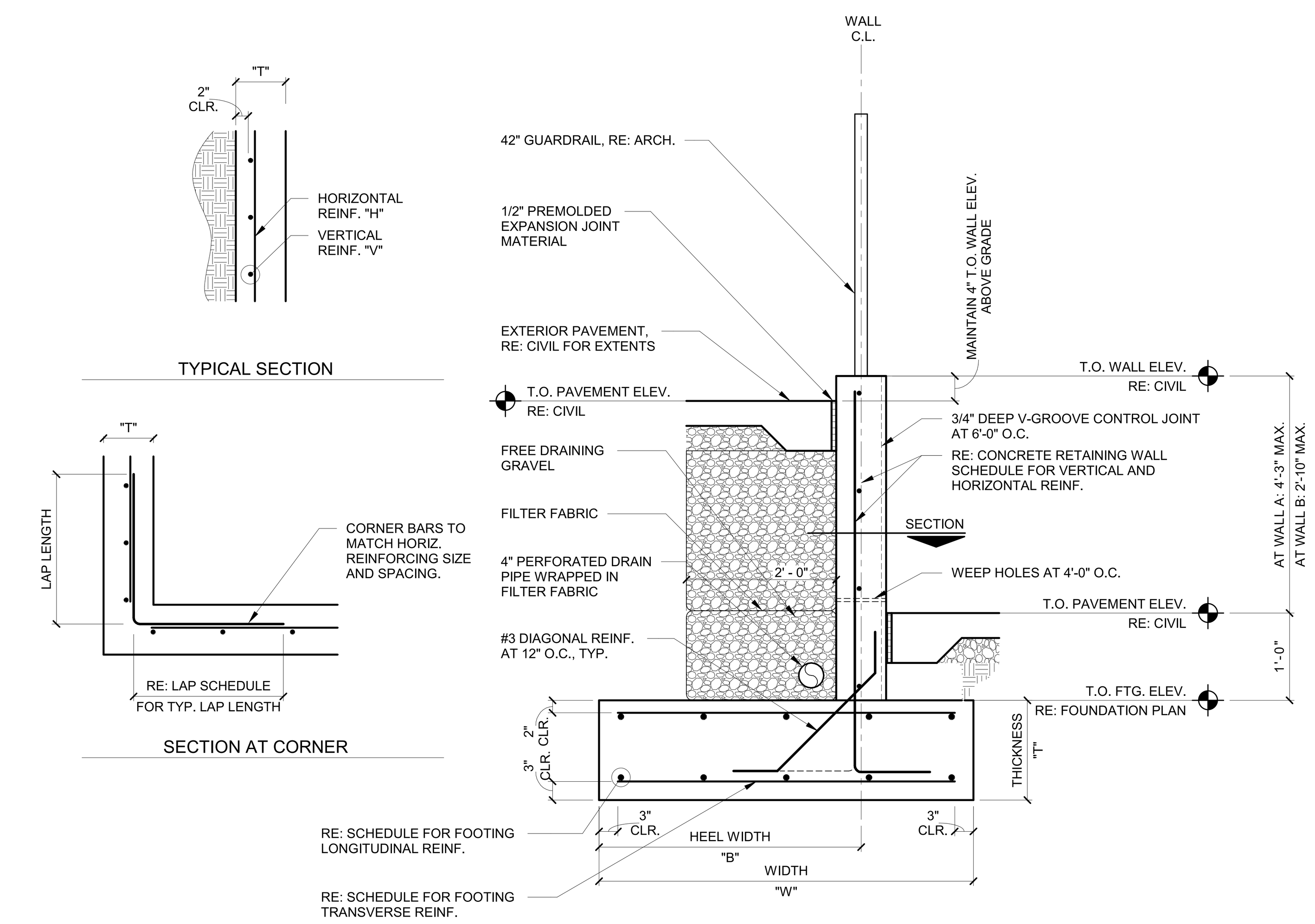
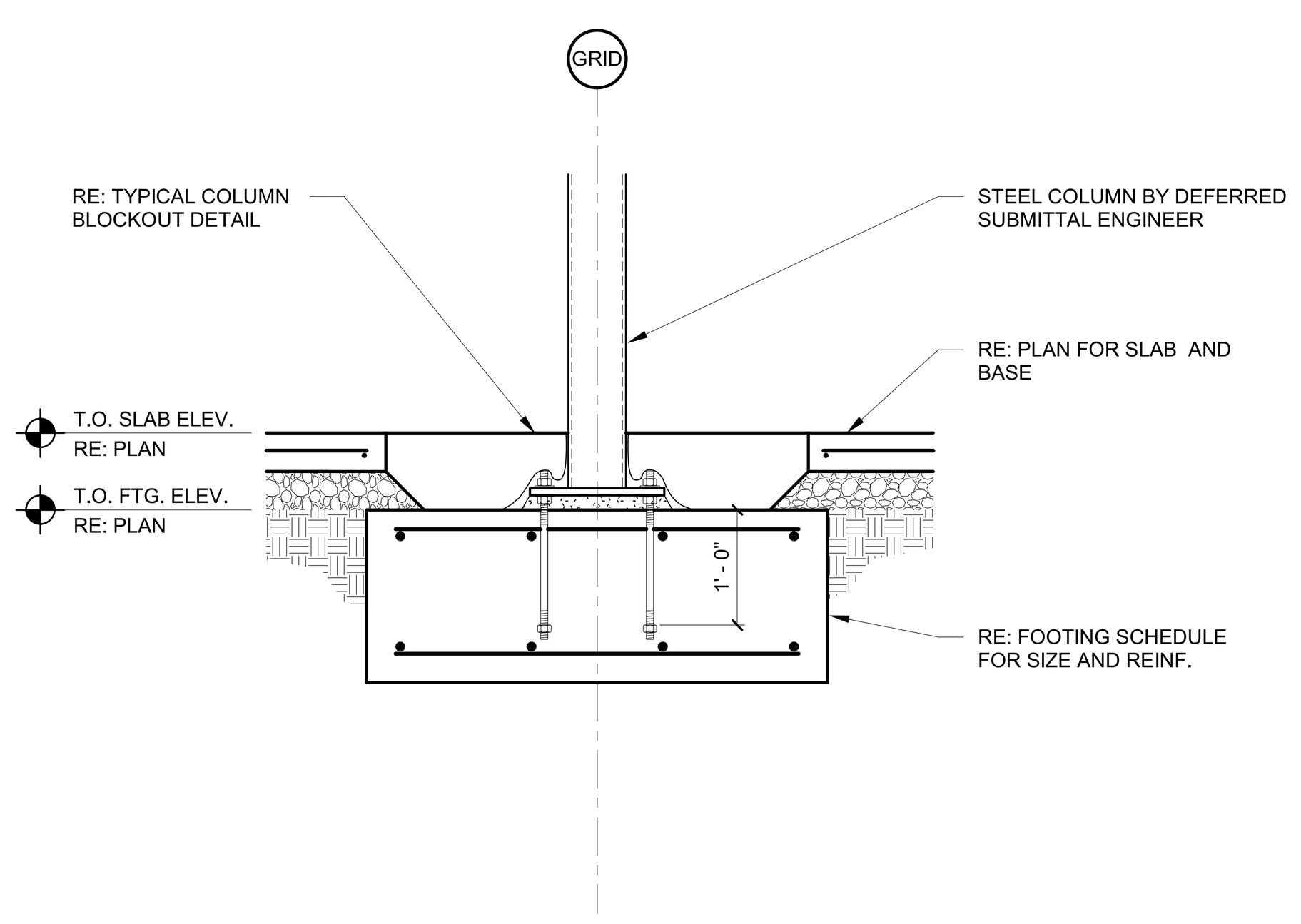
FIELD VERIFICATION NOTES:
1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORDTO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. RE: SHEET S001 GENERAL SECTION NOTE 13.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION. RE: SHEET S001 GENERAL SECTION NOTE 13.

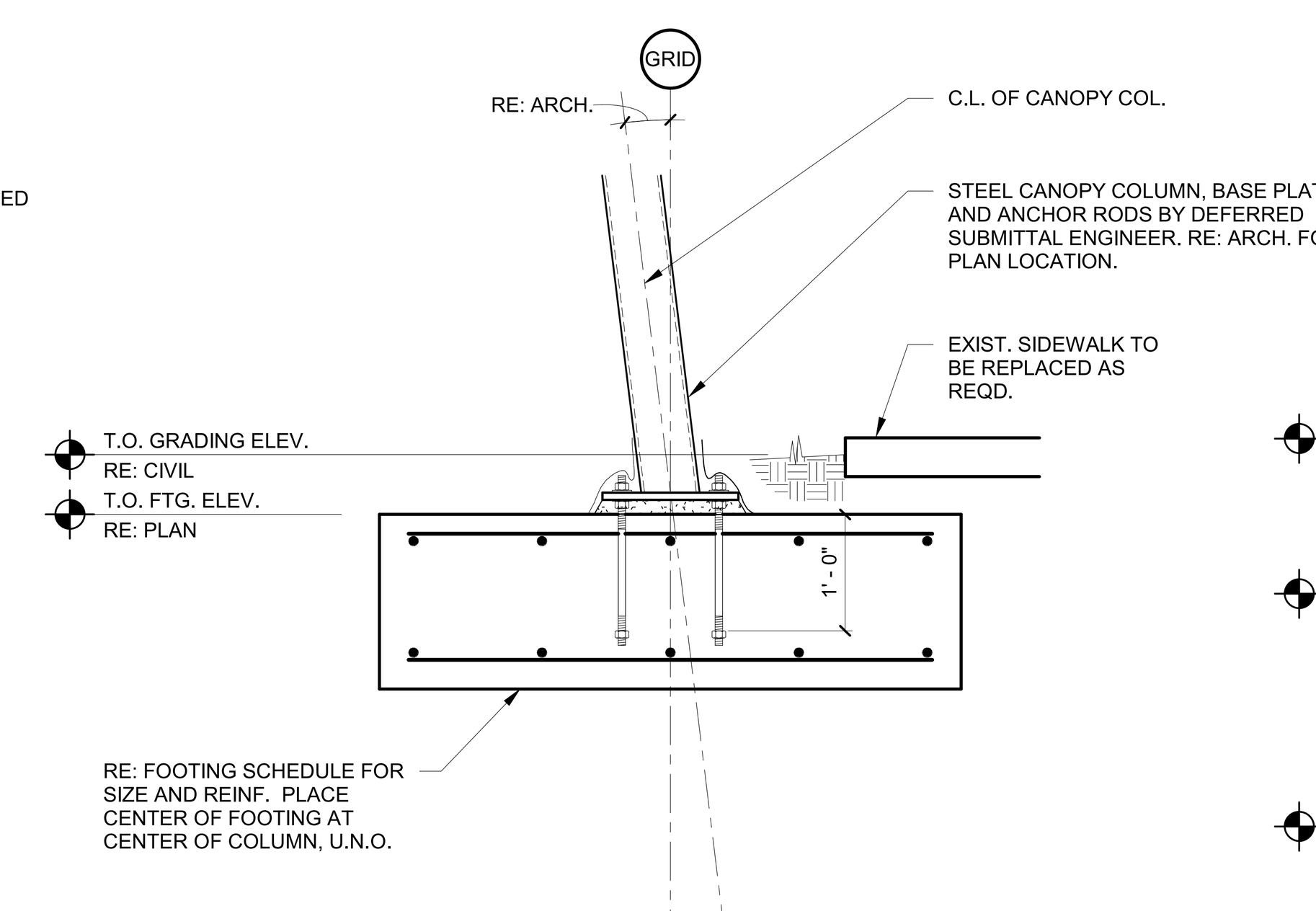

"T"
2" CLR.
HORIZONTAL REINF. "H"
VERTICAL REINF. "V"
TYPICAL SECTION
"T"
LAP LENGTH
CORNER BARS TO MATCH HORIZ. REINFORCING SIZE AND SPACING.
RE: LAP SCHEDULE FOR TYP. LAP LENGTH
SECTION AT CORNER
WALL C.L.
42" GUARDRAIL, RE: ARCH.
1/2" PREMOLDED EXPANSION JOINT MATERIAL
MAINTAIN 4" T.O. WALL ELEV. ABOVE GRADE
EXTERIOR PAVEMENT, RE: CIVIL FOR EXTENTS
T.O. PAVEMENT ELEV. RE: CIVIL
T.O. WALL ELEV. RE: CIVIL
3/4" DEEP V-GROOVE CONTROL JOINT AT 6'-0" O.C.
FREE DRAINING GRAVEL
RE: CONCRETE RETAINING WALL SCHEDULE FOR VERTICAL AND HORIZONTAL REINF.
FILTER FABRIC
SECTION
AT WALL A: 4'-3" MAX.
AT WALL B: 2'-10" MAX.
4" PERFORATED DRAIN PIPE WRAPPED IN FILTER FABRIC
2' - 0"
WEEP HOLES AT 4'-0" O.C.
T.O. PAVEMENT ELEV. RE: CIVIL
#3 DIAGONAL REINF. AT 12" O.C., TYP.
1' - 0"
T.O. FTG. ELEV. RE: FOUNDATION PLAN
2" CLR.
3" CLR.
THICKNESS "T"
3" CLR.
HEEL WIDTH "B"
3" CLR.
WIDTH "W"
RE: SCHEDULE FOR FOOTING LONGITUDINAL REINF.
RE: SCHEDULE FOR FOOTING TRANSVERSE REINF.

CONCRETE RETAINING WALL SCHEDULE								
	WALL			FOOTING				
WALL ID	THICKNESS "T"	HORIZ. REINF. "H"	VERT. REINF. "V"	THICKNESS "T"	WIDTH "W"	HEEL WIDTH "B"	TRANSVERSE REINF.	LONGITUDINAL REINF.
A	8"	#5 AT 12" O.C.	#5 AT 12" O.C.	1'-6"	5'-6"	4'-0"	#5 AT 12" O.C. T&B	#5 AT 12" O.C. T&B
B	8"	#4 AT 12" O.C.	#4 AT 12" O.C.	1'-6"	4-0"	2'-6"	#5 AT 12" O.C. T&B	#5 AT 12" O.C. T&B

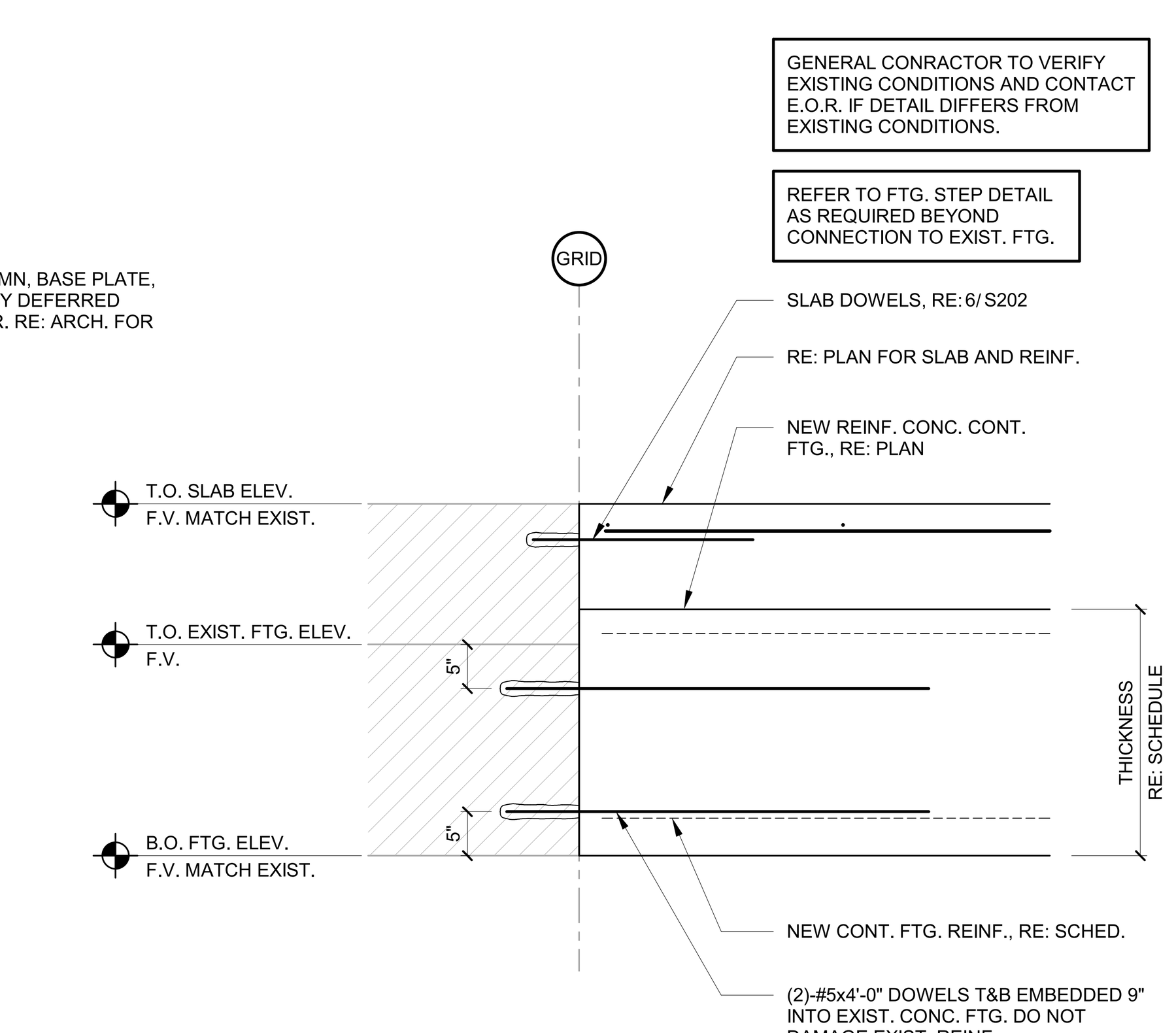
10 TYPICAL CONCRETE WALL REINFORCING DIAGRAM
3/4" = 1'-0"



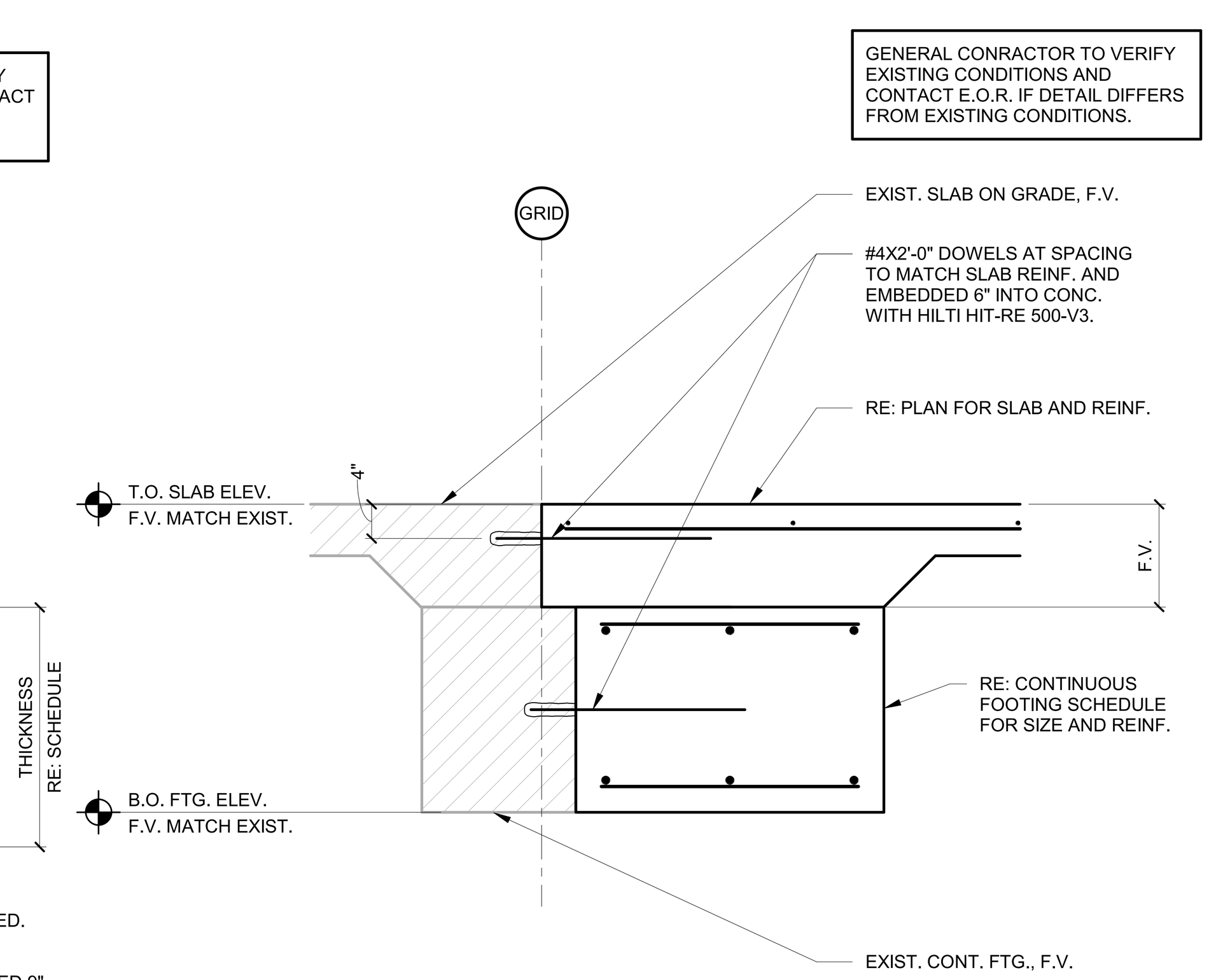
9 FOUNDATION DETAIL
3/4" = 1'-0"


GRID
RE: ARCH.
C.L. OF CANOPY COL.
STEEL CANOPY COLUMN, BASE PLATE, AND ANCHOR RODS BY DEFERRED SUBMITTAL ENGINEER. RE: ARCH. FOR PLAN LOCATION.
EXIST. SIDEWALK TO BE REPLACED AS REQD.
T.O. GRADING ELEV. RE: CIVIL
T.O. FTG. ELEV. RE: PLAN
1' - 0"
RE: FOOTING SCHEDULE FOR SIZE AND REINF. PLACE CENTER OF FOOTING AT CENTER OF COLUMN, U.N.O.

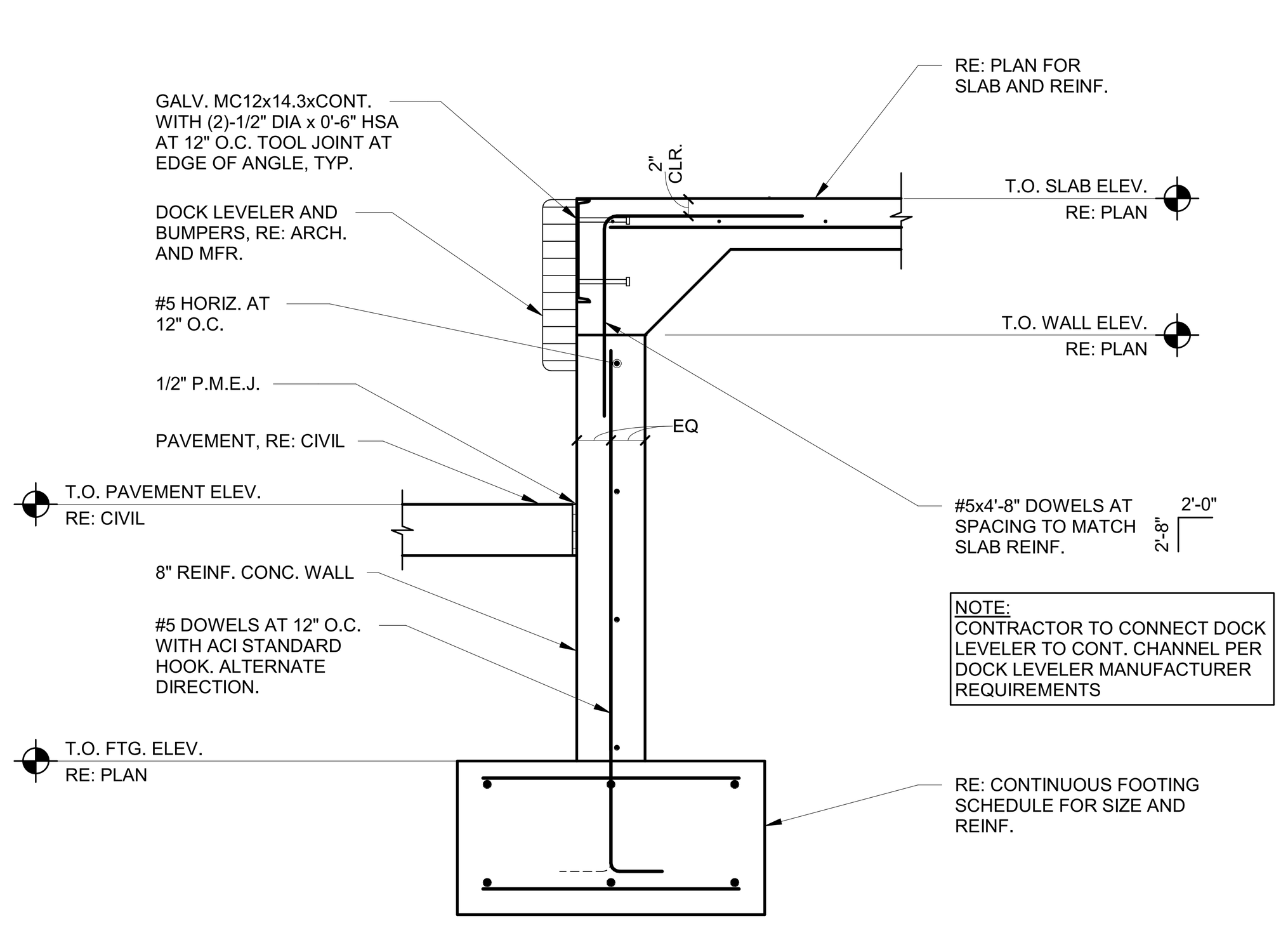
8 FOUNDATION DETAIL
3/4" = 1'-0"


GENERAL CONRACTOR TO VERIFY EXISTING CONDITIONS AND CONTACT E.O.R. IF DETAIL DIFFERS FROM EXISTING CONDITIONS.
REFER TO FTG. STEP DETAIL AS REQUIRED BEYOND CONNECTION TO EXIST. FTG.
GRID
SLAB DOWELS, RE: 6/ S202
RE: PLAN FOR SLAB AND REINF.
NEW REINF. CONC. CONT. FTG., RE: PLAN
T.O. SLAB ELEV. F.V. MATCH EXIST.
T.O. EXIST. FTG. ELEV. F.V.
5"
5"
THICKNESS RE: SCHEDULE
B.O. FTG. ELEV. F.V. MATCH EXIST.
NEW CONT. FTG. REINF., RE: SCHED.
(2)-#5x4'-0" DOWELS T&B EMBEDDED 9" INTO EXIST. CONC. FTG. DO NOT DAMAGE EXIST. REINF.

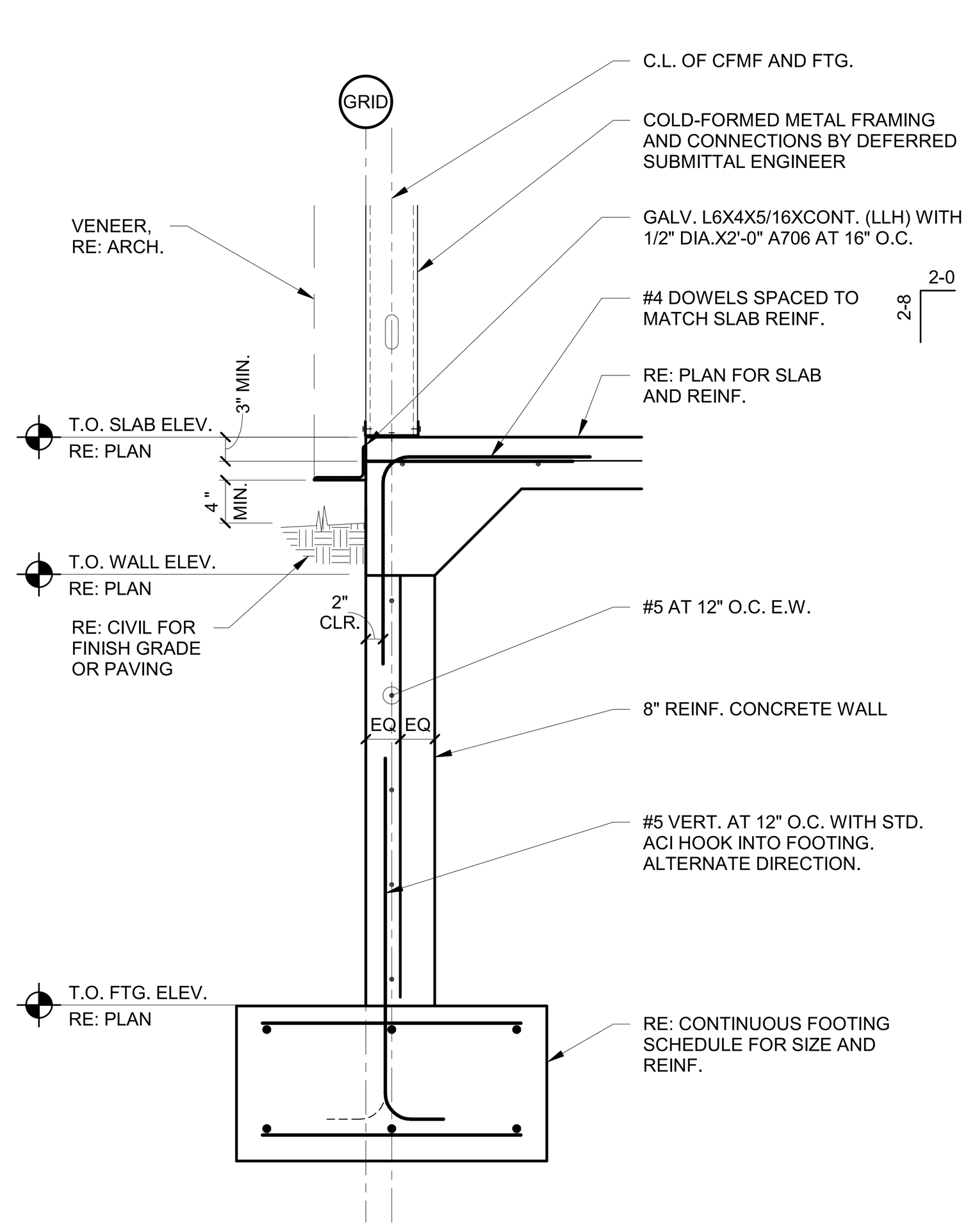
7 FOUNDATION DETAIL
3/4" = 1'-0"


GENERAL CONRACTOR TO VERIFY EXISTING CONDITIONS AND CONTACT E.O.R. IF DETAIL DIFFERS FROM EXISTING CONDITIONS.
GRID
EXIST. SLAB ON GRADE, F.V.
#4X2'-0" DOWELS AT SPACING TO MATCH SLAB REINF. AND EMBEDDED 6" INTO CONC. WITH HILTI HIT-RE 500-V3.
RE: PLAN FOR SLAB AND REINF.
4"
T.O. SLAB ELEV. F.V. MATCH EXIST.
F.V.
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.
B.O. FTG. ELEV. F.V. MATCH EXIST.
EXIST. CONT. FTG., F.V.

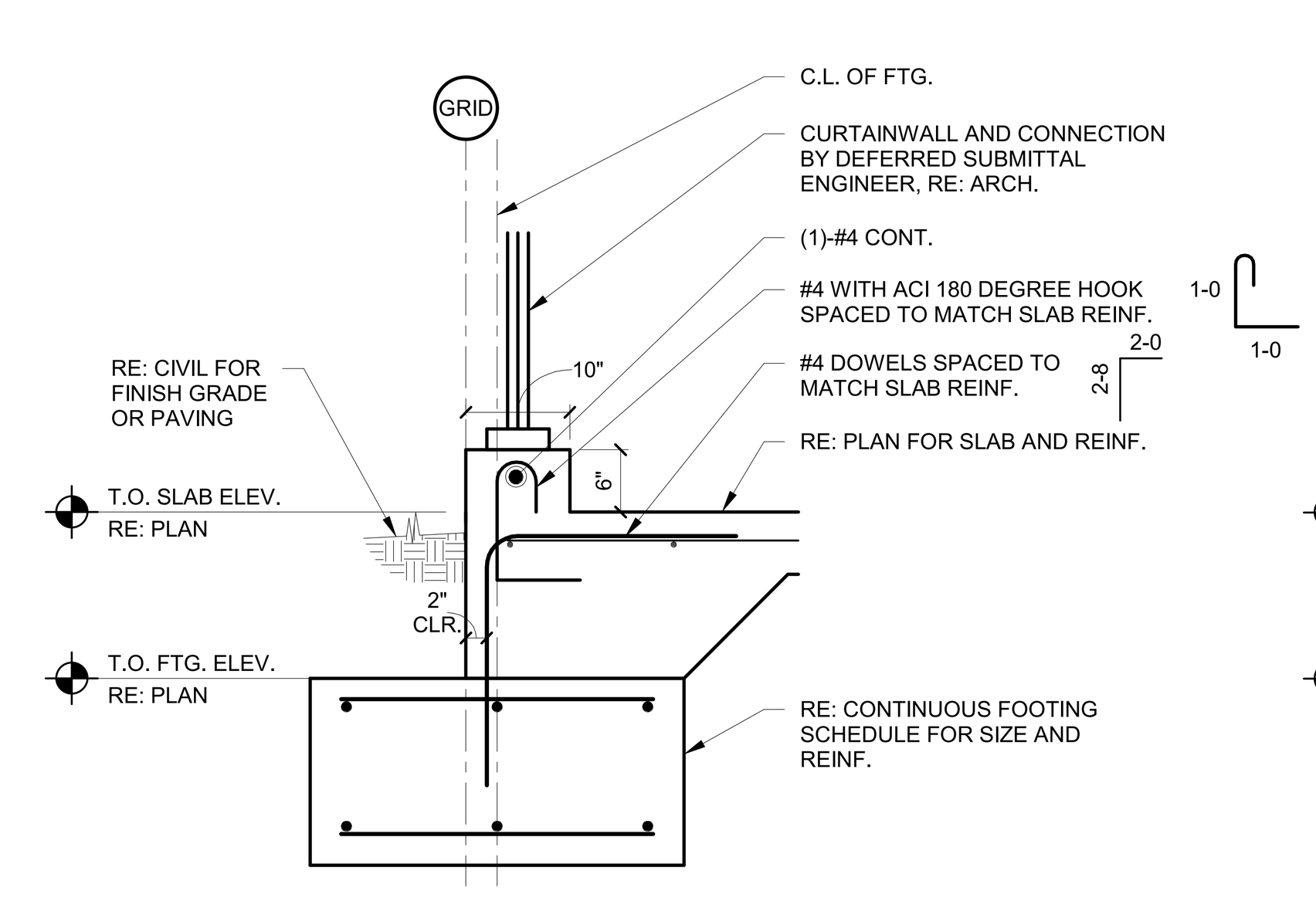
6 FOUNDATION DETAIL
3/4" = 1'-0"


GALV. MC12x14.3xCONT. WITH (2)-1/2" DIA x 0'-6" HSA AT 12" O.C. TOOL JOINT AT EDGE OF ANGLE, TYP.
RE: PLAN FOR SLAB AND REINF.
2" CLR.
T.O. SLAB ELEV. RE: PLAN
DOCK LEVELER AND BUMPERS, RE: ARCH. AND MFR.
#5 HORIZ. AT 12" O.C.
T.O. WALL ELEV. RE: PLAN
1/2" P.M.E.J.
EQ
PAVEMENT, RE: CIVIL
T.O. PAVEMENT ELEV. RE: CIVIL
#5x4'-8" DOWELS AT SPACING TO MATCH SLAB REINF.
2'-0"
2'-8"
8" REINF. CONC. WALL
NOTE: CONTRACTOR TO CONNECT DOCK LEVELER TO CONT. CHANNEL PER DOCK LEVELER MANUFACTURER REQUIREMENTS
#5 DOWELS AT 12" O.C. WITH ACI STANDARD HOOK. ALTERNATE DIRECTION.
T.O. FTG. ELEV. RE: PLAN
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.

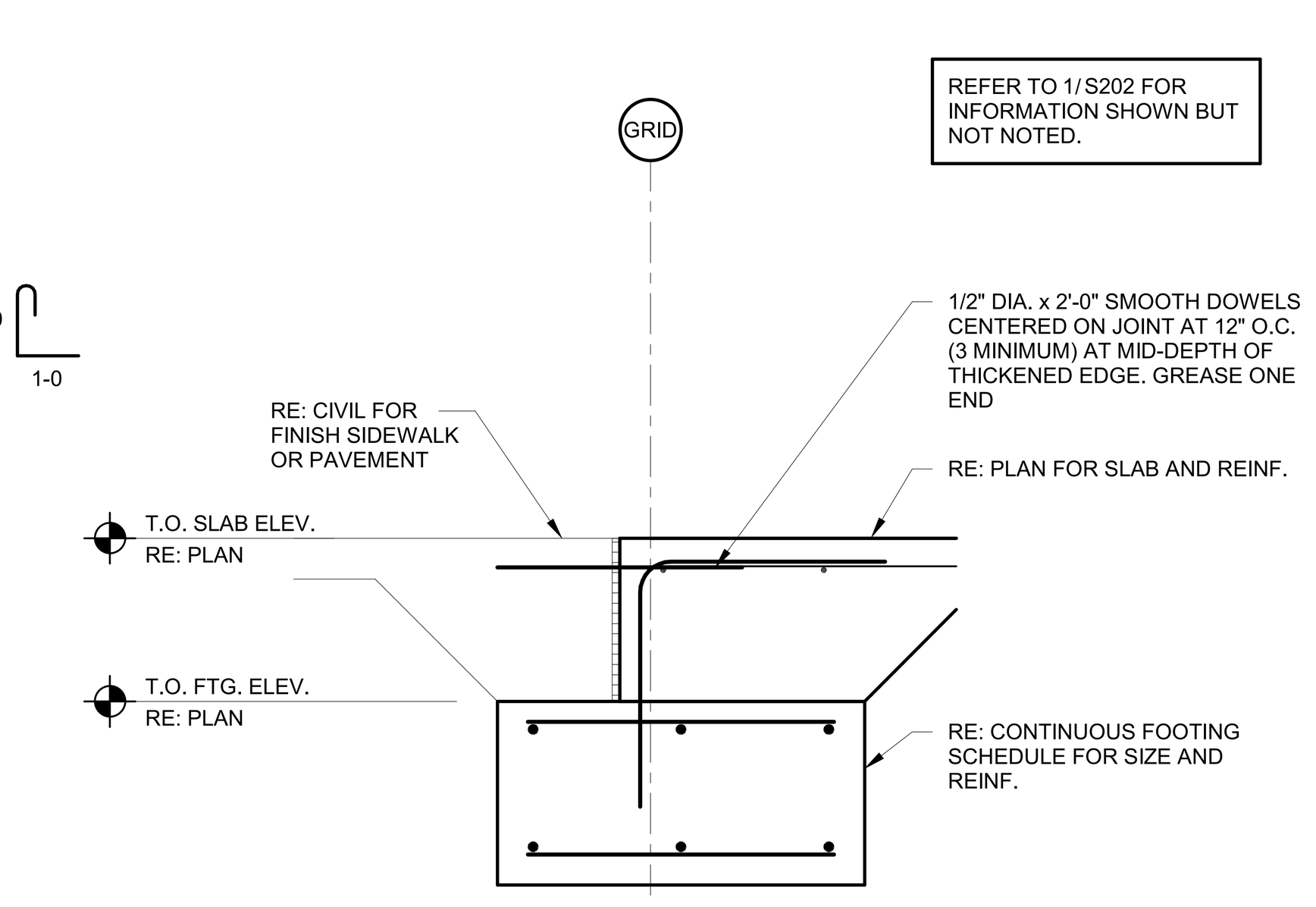
5 DOCK LEVELER FOUNDATION
3/4" = 1'-0"


GRID
C.L. OF CFMF AND FTG.
COLD-FORMED METAL FRAMING AND CONNECTIONS BY DEFERRED SUBMITTAL ENGINEER
VENEER, RE: ARCH.
GALV. L6X4X5/16XCONT. (LLH) WITH 1/2" DIA.X2'-0" A706 AT 16" O.C.
#4 DOWELS SPACED TO MATCH SLAB REINF.
2-0
2-8
3" MIN.
RE: PLAN FOR SLAB AND REINF.
T.O. SLAB ELEV. RE: PLAN
4" MIN.
T.O. WALL ELEV. RE: PLAN
RE: CIVIL FOR FINISH GRADE OR PAVING
2" CLR.
#5 AT 12" O.C. E.W.
EQ EQ
8" REINF. CONCRETE WALL
#5 VERT. AT 12" O.C. WITH STD. ACI HOOK INTO FOOTING. ALTERNATE DIRECTION.
T.O. FTG. ELEV. RE: PLAN
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.

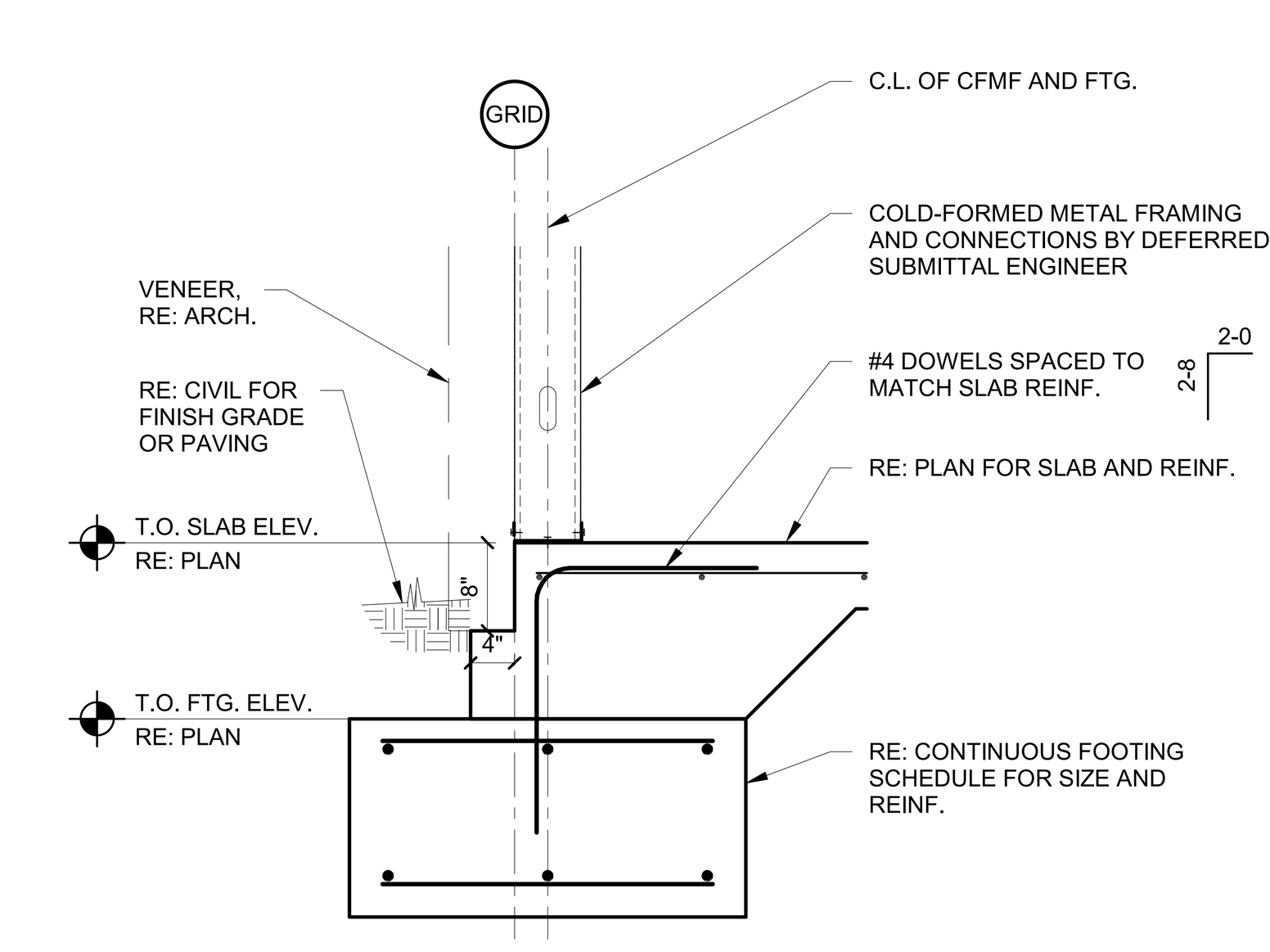
4 FOUNDATION DETAIL
3/4" = 1'-0"


GRID
C.L. OF FTG.
CURTAINWALL AND CONNECTION BY DEFERRED SUBMITTAL ENGINEER, RE: ARCH.
(1)-#4 CONT.
#4 WITH ACI 180 DEGREE HOOK SPACED TO MATCH SLAB REINF.
1-0
1-0
RE: CIVIL FOR FINISH GRADE OR PAVING
10"
#4 DOWELS SPACED TO MATCH SLAB REINF.
2-0
2-8
6"
RE: PLAN FOR SLAB AND REINF.
T.O. SLAB ELEV. RE: PLAN
2" CLR.
T.O. FTG. ELEV. RE: PLAN
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.

3 FOUNDATION DETAIL
3/4" = 1'-0"


REFER TO 1/ S202 FOR INFORMATION SHOWN BUT NOT NOTED.
GRID
1/2" DIA. x 2'-0" SMOOTH DOWELS CENTERED ON JOINT AT 12" O.C. (3 MINIMUM) AT MID-DEPTH OF THICKENED EDGE. GREASE ONE END
RE: CIVIL FOR FINISH SIDEWALK OR PAVEMENT
RE: PLAN FOR SLAB AND REINF.
T.O. SLAB ELEV. RE: PLAN
T.O. FTG. ELEV. RE: PLAN
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.

2 FOUNDATION DETAIL
3/4" = 1'-0"


GRID
C.L. OF CFMF AND FTG.
COLD-FORMED METAL FRAMING AND CONNECTIONS BY DEFERRED SUBMITTAL ENGINEER
VENEER, RE: ARCH.
RE: CIVIL FOR FINISH GRADE OR PAVING
#4 DOWELS SPACED TO MATCH SLAB REINF.
2-0
2-8
RE: PLAN FOR SLAB AND REINF.
T.O. SLAB ELEV. RE: PLAN
8"
4"
T.O. FTG. ELEV. RE: PLAN
RE: CONTINUOUS FOOTING SCHEDULE FOR SIZE AND REINF.

1 FOUNDATION DETAIL
3/4" = 1'-0"

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CHEROKEE NATION - COVID PROJECTS - VINITA FDC EXPANSION
VINITA, OK
FOUNDATION DETAILS

wallace design collective
wallace design collective, pc
structural · civil · landscape · survey
123 north martin luther king jr. boulevard
tulsa, oklahoma 74103
918.584.5858 · 800.364.5858
OK. C.A. #1460, EXP. 06/30/25

320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
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2024.02.07 09:10:20-06'00'
PROFESSIONAL STRUCTURAL ENGINEER
ANDREW M. KERN
22259
OKLAHOMA
[illegible]

PROJECT #: 2111313

ISSUE DATES:		
100% CD		02/12/2024
No.	Description	Date

SHEET NUMBER:
S202

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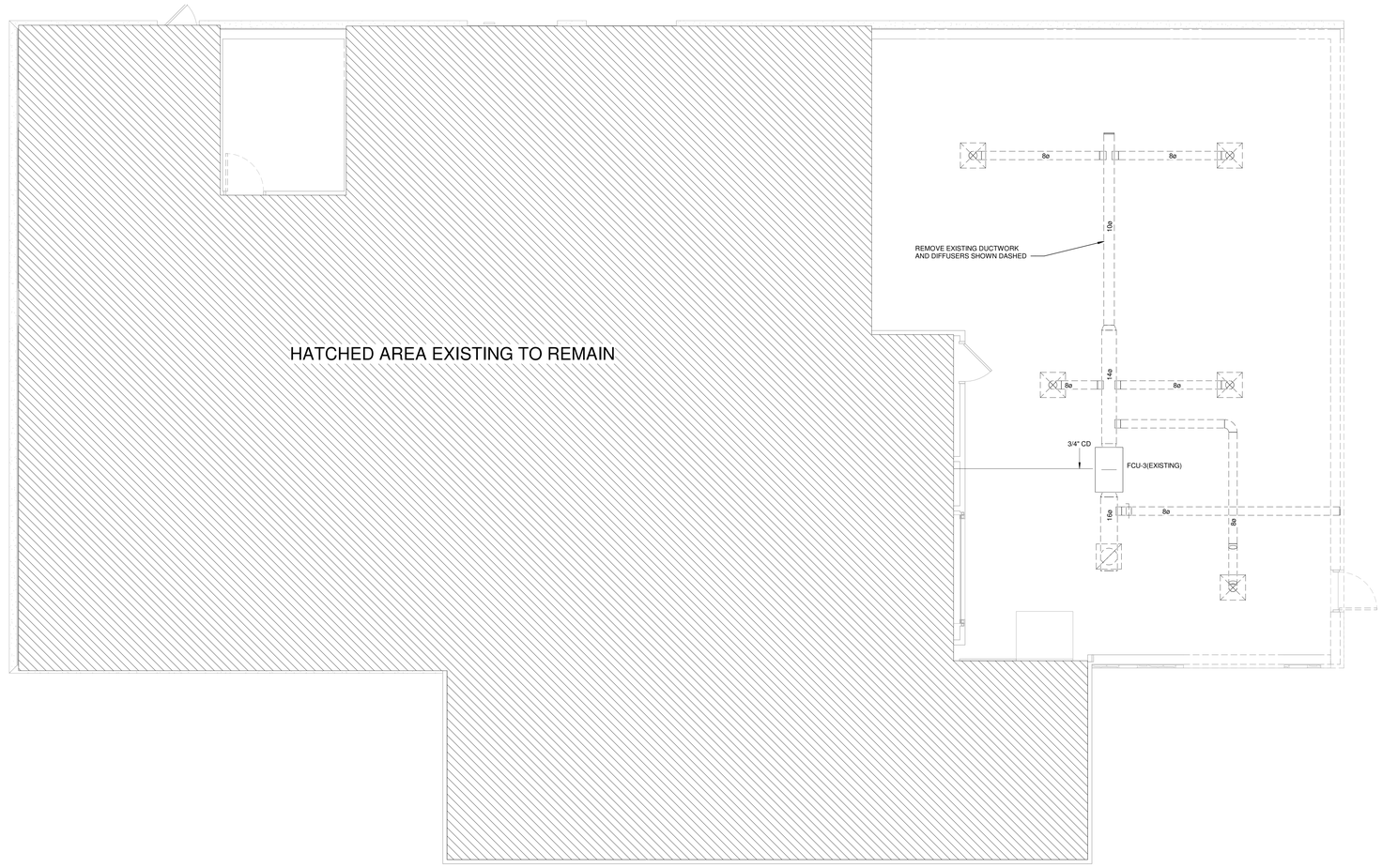

1 FIRST FLOOR HVAC DEMO PLAN
1/4" = 1'-0"

blue river ARCHITECTS
A Native American Owned Firm
320 S. Boston Avenue, Suite 103
Tulsa, Oklahoma 74103
918-877-9036
blueriverarchitects.com

CHEROKEE NATION
VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

HVAC DEMO PLAN

MPW
MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600
TULSA, OK 74119
PHONE • (918) 582-4088
FAX • (918) 582-4087

SCOTT C. WEBB 18011 2-12-24 LICENSED PROFESSIONAL ENGINEER OKLAHOMA

PROJECT #: 20200132

ISSUE DATES:		
CONSTRUCTION DOCUMENTS		02/12/2024
No.	Description	Date

SHEET NUMBER:
MD111

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2/9/2024 10:41:24 AM

MECHANICAL

Symbol	Description
	SUPPLY AIR DUCT, SECTION
	RETURN AIR DUCT, SECTION
	EXHAUST AIR DUCT, SECTION
O A	OUTDOOR AIR INTAKE, SECTION
20x12	DUCT, WIDTH X DEPTH, PLAN
R	INCLINE DUCT RISE
D	INCLINE DUCT DROP
	FLEXIBLE CONNECTION
	LONG RADIUS ELBOW
	VOLUME DAMPER
	SQUARE ELBOW W/ TURNING VANES
	BRANCH TAKEOFF WITH ADJUSTABLE EXTRACTOR
	SPLITTER DAMPER
T	THERMOSTAT
S	SPACE TEMPERATURE SENSOR
	EXHAUST AIR INLET
	CEILING RETURN INLET
	CEILING SUPPLY DIFFUSER
	DUCT WITH INTERNAL LINING
	ELECTRIC DUCT HEATER
	SQUARE OR RECTANGULAR BRANCH TAKEOFF WITH MANUAL BALANCING DAMPER
	ROUND BRANCH TAKEOFF WITH SCOOP EXTRACTOR AND MANUAL BALANCING DAMPER
	CONICAL TEE WITH ROUND DUCTWORK
SP	STATIC PRESSURE SENSOR
	UNIT HEATER
SD	SMOKE DETECTOR
	SUPPLY AIR FLOW
	RETURN AIR OR EXHAUST AIR FLOW
	DOOR UNDER CUT
	FIXED LOUVER W/BIRD SCREEN
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER
M	MOTORIZED DAMPER
	POINT OF CONNECTION
PT	PRESSURE TRANSMITTER
A	AIR OUTLET
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
NOX	NITROGEN OXIDE SENSOR

ABBREVIATIONS

A	A	AIR
	ABV	ABOVE
	ACCU	AIR COOLED CONDENSING UNIT
	ACL	ACETYLENE GAS
	ACU	AIR CONDITIONING UNIT
	AD	ACCESS DOOR
	AF	AIR FILTER
	AFF	ABOVE FINISHED FLOOR
	AFH	AIR FILTER, HIGH EFFICIENCY
	AHU	AIR HANDLING UNIT
	APD	AIR PRESSURE DROP
	AR	ACID RESISTANT
	ASSY	ASSEMBLY
	AUX	AUXILIARY
	AV	AUTOMATIC AIR VENT
B	BDD	BACKDRAFT DAMPER
	BHP	BRAKE HORSE POWER
	BP	BACKFLOW PREVENTER
	BS	BIRD SCREEN
C	C	CONDENSATE
	C/L	CENTER LINE
	CD	CEILING DIFFUSER
	CFM	CUBIC FEET PER MINUTE
	CH	CHILLER
	CHDR	CHEMICAL DRAIN
	CHP	CHILLED WATER PUMP
	CLG	CEILING
	CO	CLEANOUT
	CONC	CONCRETE
	CONN	CONNECTION
	CONT	CONTINUATION/CONTINUOUS
	COTG	CLEAN OUT TO GRADE
	CU	CONDENSING UNIT/COPPER
	CV	CONSTANT VOLUME
	CW	COLD WATER
D	DDC	DIRECT DIGITAL CONTROL
	DG	DOOR GRILLE
	DIA	DIAMETER
	DIM	DIMENSION
	DMPR	DAMPER
	DN	DOWN
	DPS	DIFFERENTIAL PRESSURE SWITCH
	DR	DRAIN
	DSD	DUCT SMOKE DETECTOR
	DSW	DISTILLED WATER
	DWG	DRAWING
E	EAT	ENTERING AIR TEMPERATURE
	ED	EQUIPMENT DRAIN
	EDB	ENTERING DRY BULB
	EER	ENERGY EFFICIENCY RATIO
	EF	EXHAUST FAN
	EFF	EFFICIENCY
	EG	EXHAUST GRILLE
	EL	ELEVATION
	ELEC	ELECTRICAL
	ENT	ENTERING
	ER	EXHAUST REGISTER
	EWB	ENTERING WET BULB
	EWC	ELECTRIC WATER COOLER
	EWT	ENTERING WATER TEMPERATURE
	EXH	EXHAUST
	EWS	EYE WASH/SHOWER STATION
F	FCO	FLOOR CLEANOUT
	FD	FIRE DAMPER/FLOOR DRAIN
	FH	FUME HOOD
	FL	FLOOR
	FLEX	FLEXIBLE
	FOR	FUEL OIL RETURN
	FOS	FUEL OIL SUPPLY
	FP	FIRE PUMP
	FPI	FINS PER INCH
	FPM	FEET PER MINUTE
	FT	FEET
	FV	FACE VELOCITY
G	GA	GAUGE
	GIV	GRAVITY INTAKE VENTILATOR
	GND	GROUND
	GPM	GALLONS PER MINUTE
	GRV	GRAVITY RELIEF VENTILATOR
H	HB	HOSE BIBB
	HORIZ	HORIZONTAL
	HP	HORSE POWER/HEAT PUMP
	HTG	HEATING
	HUMID	HUMIDISTAT
	HWS	HOT WATER SUPPLY
	HWB	HOT WATER BOILER
	HWP	HOT WATER PUMP
	HWR	HOT WATER RETURN
I	ID	INSIDE DIAMETER
	IN	INCHES
	INV EL	INVERT ELEVATION
K	KW	KILOWATT
L	LAB	LABORATORY
	LAT	LEAVING AIR TEMPERATURE
	LAV	LAVATORY
	LB	POUND
	LD	LINEAR DIFFUSER
	LDB	LEAVING DRY BULB
	LF	LINEAR FEET
	LFD	LAMINAR FLOW DIFFUSER
	LP	LIQUID PROPANE
	L/S	LITERS PER SECOND
	LWB	LEAVING WET BULB
	LWT	LEAVING WATER TEMPERATURE
M	MAU	MAKE-UP AIR UNIT
	MAX	MAXIMUM
	MB	MIXING BOX/MOP BASIN
	MBH	THOUSAND BTU/HR
	MD	MOTORIZED DAMPER
	MECH	MECHANICAL
	MIN	MINUTE/MINIMUM
	MM	MILLIMETERS
	MS	MOTOR STARTER
N	N	NITROGEN
	NC	NORMALLY CLOSED
	NG	NATURAL GAS
	NIC	NOT IN CONTRACT
	NO	NUMBER
	NOX	NITROGEN OXIDE
	NTS	NOT TO SCALE
O	O	OXYGEN
	OA	OUTSIDE AIR
	OAL	OUTSIDE AIR LOUVER
	OBD	OPPOSED BLADE DAMPER
	OC	ON CENTER
	OS	OVERFLOW SCUPPER
	OS&Y	OUTSIDE SCREW & YOKE
P	PD	PRESSURE DROP
	POC	POINT OF CONNECTION
	PRESS	PRESSURE
	PRV	PRESSURE REDUCING VALVE
	PSIG	POUNDS PER SQUARE INCH
	PVC	POLYVINYL CHLORIDE
R	RA	RETURN AIR
	RAG	RETURN AIR GRILLE
	RAR	RETURN AIR REGISTER
	RC	RAIN CONDUCTOR
	RD	ROOF DRAIN
	REF	REFERENCE
	RF	RETURN FAN
	RL	RAIN LEADER
	RM	ROOM
	RTN	RETURN
S	SA	SUPPLY AIR
	SAG	SUPPLY AIR GRILLE
	SAN	SANITARY
	SAR	SUPPLY AIR REGISTER
	SD	SMOKE DAMPER
	SD/FD	COMB. SMOKE DAMPER\FIRE DAMP.
	SF	SUPPLY FAN
	SH	SHEET
	SP	STATIC PRESSURE
	SQ FT	SQUARE FEET
	SST	STAINLESS STEEL
T	TCU	TERMINAL CONTROL UNIT
	TEMP	TEMPERATURE
	TG	TRANSFER GRILLE
	TP	TRAP PRIMER
	TYP	TYPICAL
U	UC	UNDERCUT
V	V	VENT
	VAV	VARIABLE AIR VOLUME
	VD	VOLUME DAMPER
	VEL	VELOCITY
	VERT	VERTICAL
	VFD	VARIABLE FREQUENCY DRIVE
	VSD	VARIABLE SPEED DRIVE
	VTR	VENT THRU ROOF
W	W/	WITH
	W/O	WITHOUT
	WCO	WALL CLEANOUT
	WC	WATER COLUMN
	WH	WALL HYDRANT
	WHA	WATER HAMMER ARRESTORS
	WR	WATER RISER
	WTR	WATER

DUCT TAGS

XX" S/A	SUPPLY AIR
XX" R/A	RETURN AIR
XX" EXH.	EXHAUST AIR
XX" O/A	OUTSIDE AIR
XX" T/A	TRANSFER AIR

SUPPLY AIR DEVICE

(TYP OF 4)

CD1 / 8" / 250	RAG / 8" / 250

QUANTITY REQUIRED IN SAME ROOM. BLANK IF ONLY ONE

DEVICE TYPE PER SCHEDULE

NECK SIZE (INCHES) ONE NUMBER INDICATES ROUND

DELIVERY (CFM)

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

FAN/COIL UNIT SCHEDULE

MARK	MANUFACTURER & MODEL	S/A CFM	O/A CFM	ESP	COOLING CAPACITY (TONS)	HTG CAPACITY	ELECTRICAL V	P	Hz	MCA	MOCP	FLA	CONFIG	NOTES
FCU-3(EXISTING)	CARRIER FX4DNF025L00	800	150	.5	2	6.4 kW	208 V	1	60 Hz	44.7 A	45 A	3 A	HORIZONTAL	1,2,3,4,5
FCU-4(NEW)	FX4DNF061L00	2000	300	.5	5	20.0 kW	208 V	1	60 Hz	53.8 A	60 A	6 A	HORIZONTAL	1,2,3,4,5

NOTES:

1. INSTALL REFRIGERANT LINES PER MANUFACTURER GUIDELINES BASED ON RUN LENGTH.
2. PROVIDE BALANCING DAMPER ON FRESH AIR SUPPLY TO PROVIDE SCHEDULED OUTSIDE AIR QUANTITIES.
3. PROVIDE BALANCING DAMPER ON FRESH AIR DUCTS TO PROVIDE OUTSIDE AIR CFMS AS SCHEDULED.
4. PROVIDE ELECTRIC AUXILARY HEAT EQUAL TO HEATING CAPACITY
5. PROVIDE 7-DAY PROGRAMMABLE, NIGHT SETBACK, NON-VIOLATE THERMOSTAT WITH AUTO CHANGEOVER CONTROL FOR EACH NEW UNIT. PROVIDE TRANSPARENT LOCKING COVER FOR T-STATS, TYPICAL.

HEAT PUMP CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER & MODEL	NOMINAL CAPACITY (TONS)	NET COOLING CAPACITY TOTAL / SEN MBH	ELECTRICAL V	P	Hz	MCA	MOCP	FLA	SEER	WEIGHT	NOTES
HP-3(EXISTING)	25HCE424AP03	2	21.42 / 16.64	208 V	1	60 Hz	14 A	25 A	2 A	14	144 lb	1,2,3,4,5
HP-4	25HCE460AP05	5	52.58 / 43.54	230 V	3	60 Hz	22 A	30 A	2 A	14	248 lb	1,2,3,4,5

NOTES:

1. ALL UNITS SHALL BE SUPPLIED ASCOMPLETE SYSTEMS WITH EXPANSION VALVES (TXV), FILTER-DRYERS, SIGHT GLASS, LOW AMBIENT HEATER, CRANKCASE HEATER AND R410A REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL VERIFY WITH THE UNIT MANUFACTURER THAT REFRIGERANT LINES ARE WITHIN THE RECOMMENDED ALLOWABLE LINE LINGTHS OF RUN AND RISE. CONTACT THE ENGINEER IF LINE LENGTHS EXCEED THESE REQUIREMENTS.
3. INSTALL NEW UNITS ON 4" THICK CONCRETE PAD SUITABLE FOR HVAC SYSTEMS. ANCHOR UNIT TO PAD.
4. INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BID AND INSTALL THE EQUIPMENT.
5. FIELD INSTALLED DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER & MODEL	MOUNTING	CFM	ESP	SONES	ELECTRICAL V	P	Hz	WATTS	SPEEDS
EF4	GREEENHECK SQ-60-VG	INLINE	50	.1	0.9	115 V	1		50 W	1
EF5	GREENHECK SQ-80-D	INLINE	300	.29	7.3	115 V	1	60 Hz	62 W	1

REMARKS:

1. STANDARD DISCONNECT, COORDINATE LOCATION WITH ELECTRICAL CONTRACOR.
2. PROVIDE INTEGRAL BACKDRAFT DAMPER.
3. CONTROLLED BY TIME CLOCK.
4. FLEXIBLE CONNECTIONS AT DISCHARGE DUCT CONNECTIONS TO MINIMIZE VIBRATION.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER & MODEL#	SERVICE	MATERIAL	FACE TYPE	MOUNTING LOCATION	FACE SIZE	NOISE CRITERIA (NC)	NOTES
CD1	TITUS TMS	SUPPLY AIR	ALUMINUM	ROUND NECK	SURFACE	12"X12"	35	1,2,3,4,5,6,7
CD2	TITUS TMS	SUPPLY AIR	ALUMINUM	ROUND NECK	SURFACE	24"X24"	35	1,2,3,4,5,6,7
EAG1	TITUS 50F	EXHAUST AIR	ALUMINUM	SQURAE NECK	SURFACE	12"X12"	35	1,3,6
EAG3	TITUS 50F	EXHAUST AIR	ALUMINUM	ROUND NECK	SURFACE	12"X12"	35	1,3,6
RAG1	TITUS 50F	RETURN AIR	ALUMINUM	ROUND NECK	SURFACE	24"X24"	35	1,2,3,4,5,6,7
RAG2	TITUS 50F	RETURN AIR	ALUMINUM	ROUND NECK	LAY-IN	24"X24"	35	1,2,3,4,5,6,7
RG1	TITUS 50F	RETURN AIR	ALUMINUM	ROUND NECK	SURFACE MOUNT	24"X24"	35	1,2,3,6

NOTES:

1. COORDINATE FRAME TYPE WITH CEILING MATERIALS. DUCT MOUNT WHERE SPIRAL DUCTWORK EXPOSED.
2. FOR SURFACE MOUNTED LAY-IN TYPE DIFFUSERS OR GRILLES PROVIDE TRIM RINGS. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE CEILING TYPES WITH AIR DEVICE MOUNTING STYLE.
3. WHERE BACK PAN OF DIFFUSER IS EXPOSED TO NON-CONDITIONED ATTIC TYPE SPACES, PROVIDE FACTORY R-6 FOIL BACKED INSULATION TO MINIMIZE CONDENSATION.
4. COORDINATE LOCATION OF GRILLES, REGISTERS AND DIFFUSERS WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCHITECTURAL FEATURES.
5. FINAL FINISH OF ALL AIR DEVICES SHALL BE VERIFIED WITH ARCHITECT'S FINISH AND PAINTING SCHEDULE.
6. ACCEPTABLE ALTERNATE MANUFACTURERS: CARNES, KRUEGER, PRICE, ANEMOSTAT, NAILOR, AND METALAIRE.
7. PROVIDE OPPOSED BLADE DAMPER UNLESS SHOWN WITH MANUAL DAMPER..

AIR CURTAIN SCHEDULE

FAN	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	MCA	MOCP	REMARKS
AC-1	Berner International Corp.	IDC12-1042AA	1@1/2	120	1	6.5A	15	INTERLOCK AIR CURTAIN TO ACTIVATE UPON OPENING OF THE MAN DOOR
AC-2	Berner International Corp.	IDC12-1042AA	1@1/2	120	1	6.5A	15	INTERLOCK AIR CURTAIN TO ACTIVATE UPON OPENING OF THE MAN DOOR
AC-3	Berner International Corp.	IDC12-1042AA	1@1/2	120	1	6.5A	15	INTERLOCK AIR CURTAIN TO ACTIVATE UPON OPENING OF THE MAN DOOR

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THESE DOCUMENTS, THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS; INTERNATIONAL BUILDING CODE-MECHANICAL, SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-9.1 MECHANICAL REFRIGERATION.

2. THE TERM "PROVIDE" USED IN THE PROJECT SPECIFICATIONS AND DRAWINGS SHALL MEAN TO FURNISH, INSTALL, CONNECT, AND PLACE IN SERVICE COMPLETELY IN THE SPECIFIED OR APPROVED MANNER THE ITEM AND/OR MATERIAL DESCRIBED.

3. THE MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL & STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. ALL EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFIED GUIDELINES. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IN WRITING IF MECHANICAL SYSTEMS WILL NOT FIT IN AREA ALLOTTED.

4. SYMBOLS IN THE LEGEND ARE APPLICABLE GENERALLY, FOR EXACT REQUIREMENTS SEE THE APPLICABLE SCHEDULES, LAYOUTS, DETAILS, AND THE SPECIFICATIONS. UNLESS OTHERWISE NOTED. ALL DUCTS, EQUIPMENT, PIPE SIZES AND DIMENSTIONS ARE IN ENGLISH UNITS.

5. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.

6. ENGINEER OF RECORD RECOGNIZES THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS TO BE LICENSE PROFESSIONALS IN THE STATE IN WHICH WORK IS TO BE PERFORMED. GENERAL CONTRACTOR SHALL CONSIDER THE PROJECT AS ONE SET OF DOCUMENTS. GENERAL CONTRACTOR SHALL PROVIDE AN ENTIRE SET OF DOCUMENTS SHOWING ALL TRADES TO EACH SUBCONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS TO INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR POSSIBLE CONFLICTS ON THE DOCUMENTS PRIOR TO SUBMITTING FINAL BID AND COMMENCING ANY WORK. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER UPON REQUEST.

7. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.

8. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH "AS-BUILT" REDLINE DRAWINGS. UPON COMPLETION OF THE PROJECT AND AUTOCAD SHOP DRAWING FILES (IF APPLICABLE).

9. THE GENERAL CONTRACTOR SHALL PROVIDE IN WRITING AND ON COMPANY LETTER HEAD, ALL ITEMS VALUE ENGINEERED OR OMITTED FROM PROJECT BIDS. THIS DOCUMENT SHALL HAVE DETAILED DESCRIPTION AND TRANSPARENCY OF ALL ITEMS IN EACH DISCIPLINE AND FOR EACH TRADE. INFORMATION SHALL BE PROVIDED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO SUBMITTING FINAL BID. CONTRACTOR SHALL MAKE HIMSELF AVAILABLE FOR REVIEWING DOCUMENTS WITH ARCHITECT/ENGINEER/OWNER UPON REQUEST.

DUCTWORK:

10. INTERIOR METAL DUCT SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL; LOCK-FORMING QUALITY; ASTM A653/A 653M, COATING DESIGNATION; MIL-PHOSPHATIZED FINISH FOR SURFACES OF DUCT EXPOSED TO VIEW. FABRICATE DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS AND OTHER CONSTRUCTIONS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE". COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. SUPPLY DUCTWORK DOWNSTREAM OF RTUS AND MAUS SHALL BE SMACNA 2"w.g. CLASSIFICATION, SEAL CLASS B. ALL OUTSIDE AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA 2"w.g. CLASSIFICATION). ALL RETURN AIR AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION (SMACNA -2"w.g. CLASSIFICATION).

11. FLEXIBLE DUCT SHALL COMPLY UL 181 CLASS 1, FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH A POLYETHYLENE FILM OUTER JACKET ENCLOSING GLASS FIBER INSULATION (R-6) AROUND A CONTINUOUS POLYETHYLENE INNER LINER. THE INNER LINER SHALL HAVE AN ENCAPSULATED STEEL WIRE HELIX. FLEXIBLE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NAIMA'S "FIBROUS GLASS DUCT CONTRUCTION STANDARDS". INSULATION SHALL BE 1" (R-6) FOR USE IN CONDITIONED SPACE AND 1 1/2" (R-8) FOR USE IN UNCONDITIONED SPACE.

12. EXTERIOR RECTANGULAR METAL DUCT AND FITTINGS SHALL BE DOUBLE WALL CONSTRUCTION. THE OUTER SHELL SHALL BE FABRICATED WITH GALVANIZED SHEET STEEL LOCK-FORMING QUALITY; ASTM A653/A653M, WITH ASTM G-90 GALVANIZE COATING THE INSULATION SHALL BE 2" (R-8) FIBERGLASS DUCT WRAP. THE INNER SHELL SHALL BE 24 GA PERFORATED METAL WITH 3/32" DIAMETER HOLES ON 3/16" STAGGERED CENTERS. MYLAR SHALL BE INSTALLED BETWEEN THE FIBERGLASS DUCT WRAP AND THE PERFORATED INNER SHELL. ALL JOINT CONNECTORS SHALL BE WARD ANGLE FLANGES WITH APPROPRIATE GASKETS. METAL GAUGES SHALL CONFORM TO SMACNA'S 3"W.G. STANDARDS. ALL PIECES SHALL HAVE NOSING ON BOTH ENDS. ALL SEAMS TO BE "PITTSBURGH" AND SEALED WITH SMACNA APPROVED EXTERIOR JOINT SEALANT. ALL 90 DEGREE ELBOWS SHALL HAVE DOUBLE TURNING VANES. APPROVED MANUFACTURERS; AUTODUCT/SEMCO

13. EXTERNAL DUCT INSULATION SHALL BE MINERAL FIBER BLANKET WITH GLASS FIBERS BONDED WITH THERMO SETTING RESIN. THE DUCT WRAP SHALL COMPLY WITH ASTM C553, TYPE II WITHOUT FACING AND WITH ALL SERVICE JACKET MANUFACTURED FROM KRAFT PAPER, REINFORCED SCRIM, ALUMINUM FOIL AND VINYL FILM. APPLY INSULATION MATERIALS, ACCESSORIES AND FINISHES ACCORDING TO THE MANUFACTURERS WRITTEN INSTRUCTIONS; WITH SMOOTH, STRAIGHT AND EVEN SURFACES; AND FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCTS AND FITTINGS. INSULATION SHALL BE 1" (R-6) FOR USE IN CONDITIONED SPACE AND 1-1/2" (R-8) FOR USE UNCONDITIONED SPACE.

14. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

15. LAVATORY EXHAUST DUCTS SHALL BE GALVANIZED SHEET METAL OR CORRUGATED ALUMINUM FLEX DUCT WITH SEALED SEAMS AND JOINTS. ALL EXHAUST AIR DUCTS LOCATED IN AREAS WHERE DEWPOINT CONDITIONS COULD OCCUR SHALL BE INSULATED WITH EXTERNAL BLANKET NSULATIONS WITH A MINIMUM OF R-6.

16. ALL EXHAUST AIR FANS AND VENTS SHALL BE LOCATED BEYOND 10'-0" OF ANY OUTSIDE AIR INTAKE OR FAN. ALL EXHAUST AIR FANS SHALL BE MARKED WITH A PERMANENT PLATE TITLED "EXHAUST FAN FOR UNIT NUMBER(#) OR AREA". (E.G. "EF-1 FOR LOCKER ROOM", "EF-1-1 FOR GRD FL TOILET", ETC.)

17. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

18. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED W/TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL TAKE-OFFS.

THERMOSTATS/CONTROLS:

19. LOCATION OF THERMOSTATS SHALL BE ON INTERIOR WALLS APPROXIMATELY 48" AFF AND SHALL BE COORDINATED WITH SWITCHES, ETC. AT LOCATION SHOWN ON DRAWINGS.

20. VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL. VALVES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED WITHIN 18" OF THE CEILING. VALVES LOCATED IN SPACES WITHOUT CEILINGS SHALL BE ACCESSIBLE FROM THE FLOOR OR WITH A SIX OR EIGHT FOOT LADDER.

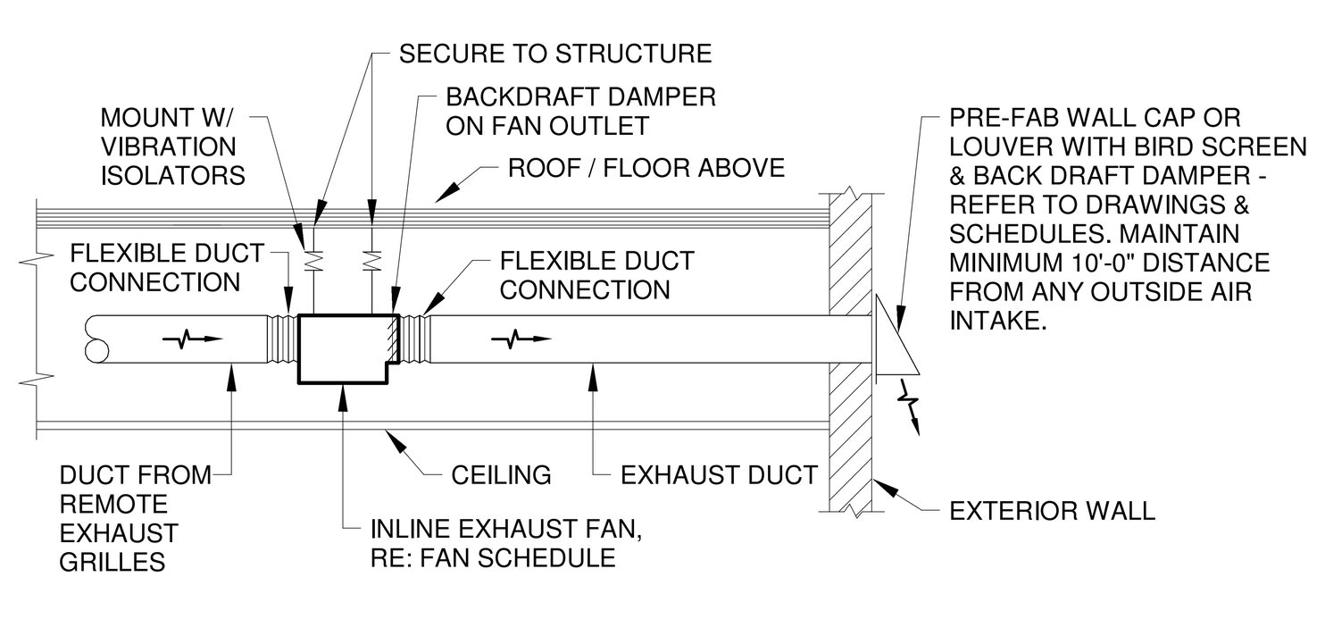
21. CONTRACTOR SHALL PROVIDE OWNER/BUILDING MANAGER/BUILDING ENGINEER WITH 40 HOURS OF ONSITE AND/OR OFF SITE TRAINING IN THE CONTROL AND OPERATION OF THE HVAC SYSTEM. TIME AND LOCATION TO BE DETERMINED BY CLIENT.

22. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED ASSEMBLIES. PROVIDE SMOKE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING SMOKE RATED ASSEMBLIES. PROVIDE RADIATION DAMPERS IN DIFFUSERS OF RATED CEILINGS. REFER TO ARCHITECTURAL LIFE SAFETY DRAWINGS FOR RATED ASSEMBLIES.

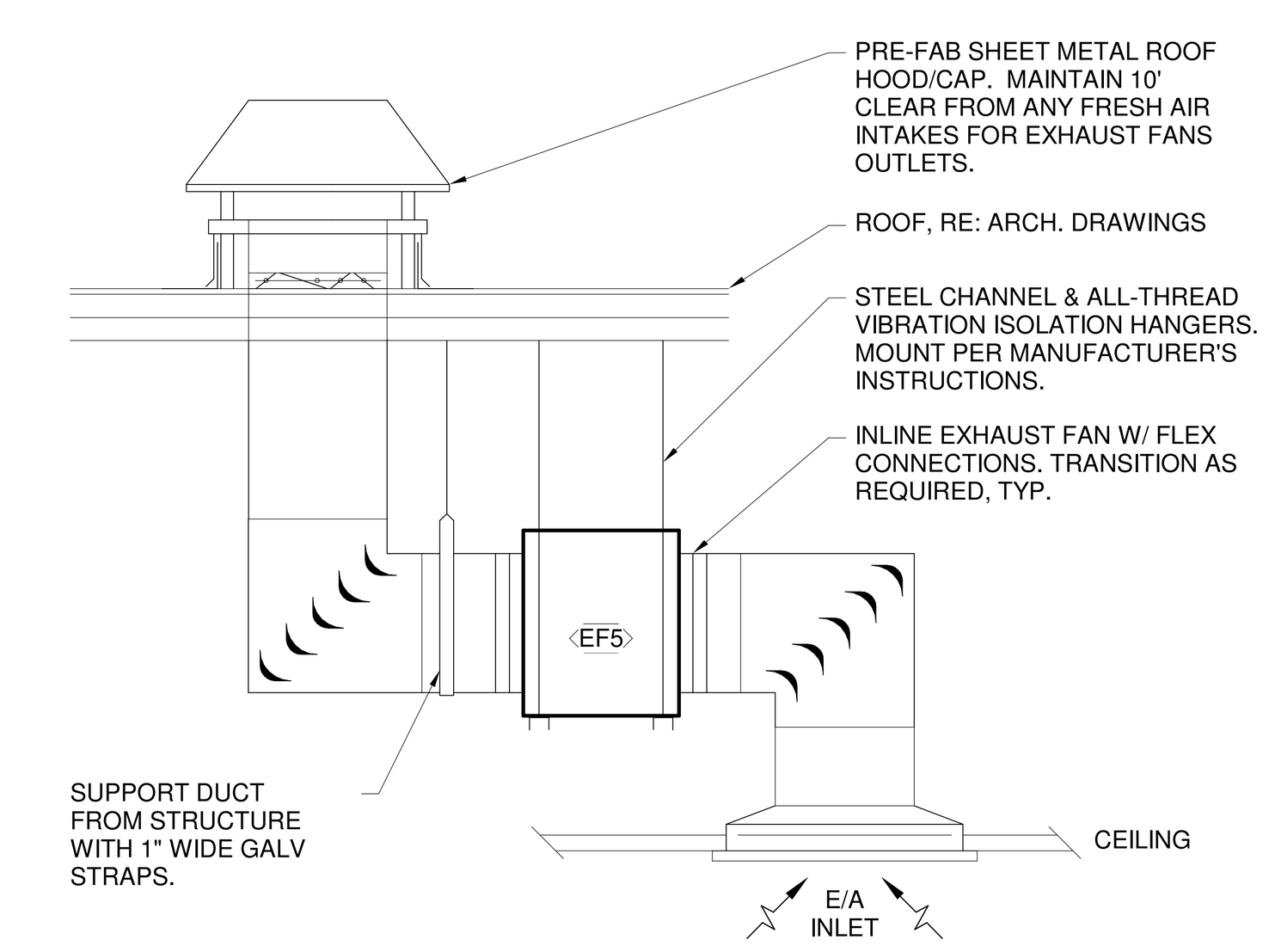
23. FOR ELECTRICAL OR CONTROL PANELS PROVIDE CLEARANCE PER NEC ARTICLE 110. DUCTS, PIPES AND OTHER EQUIPMENT ARE NOT ALLOWED TO RUN OVER PANELS PER NEC.

24. THE GENERAL CONTRACTOR SHALL TEST AND BALANCE THE AIR SIDE SYSTEM UPON COMPLETION. THE FINAL TEST AND BALANCE MUST BE PERFORMED BY AN INDEPENDENT FIRM CONTRACTED BY THE GENERAL CONTRACTOR AND NOT THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE FIRM SHALL HOLD A CURRENT CERTIFICATION FROM A RECOGNIZED TEST AND BALANCE ORGANIZATION. THE TEST AND BALANCE OPERATION SHALL INCLUDE ALL AIR SIDE SYSTEMS REGARDLESS OF SIZE OF EQUIPMENT AND A TEST TO CONFIRM BUILDING IS NEUTRAL OR POSITIVELY PRESSURIZED. THE T & B FIRM SHALL PROVIDE A WRITTEN REPORT TO THE ARCHITECT AND THE ENGINEER UPON COMPLETION.

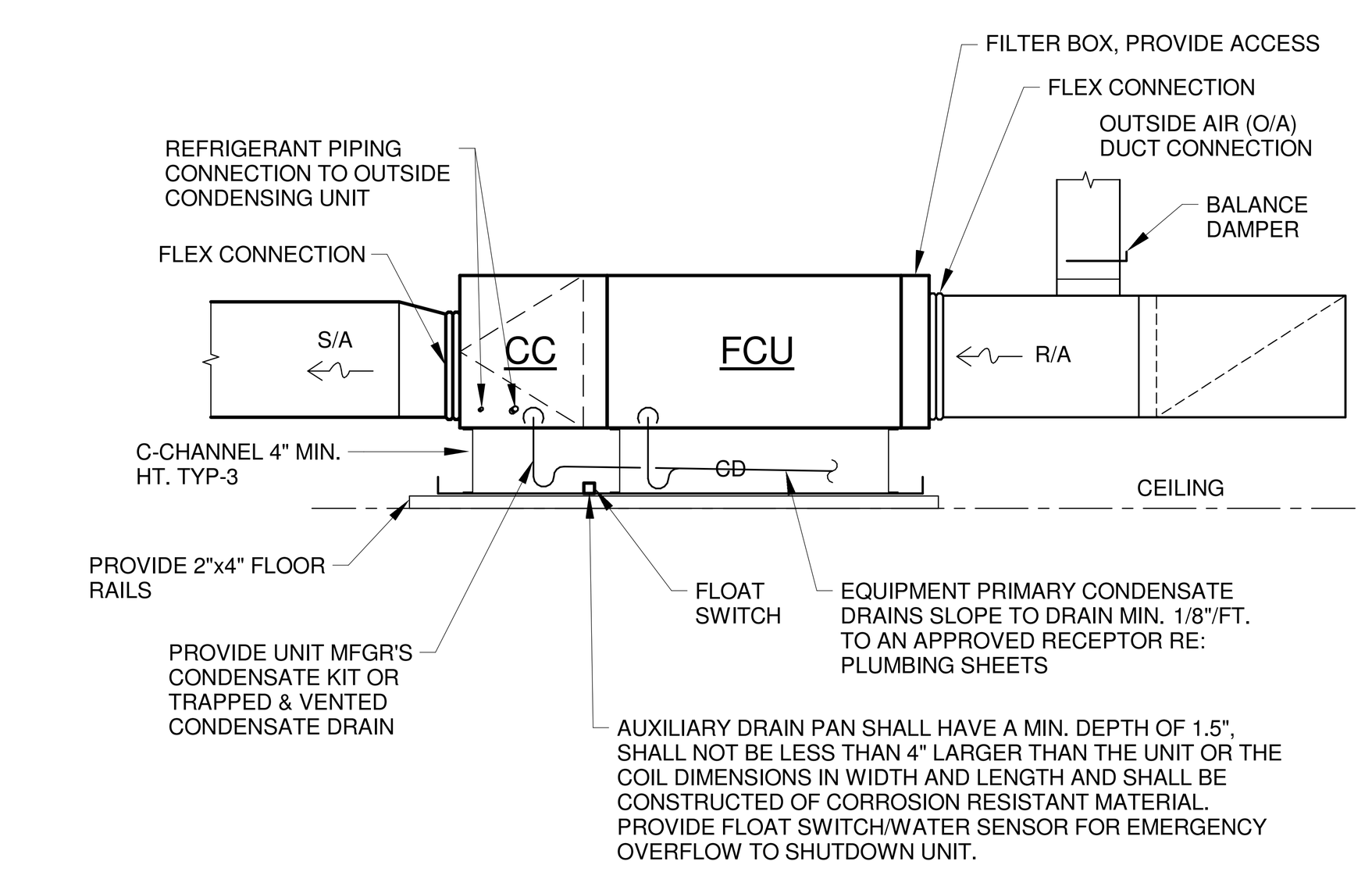
25. ALL OPERATIONS / MAINTENANCE MANUALS FOR EQUIPMENT SPECIFIED SHALL BE PROVIDED TO OWNER UPON COMPLETION OF PROJECT.



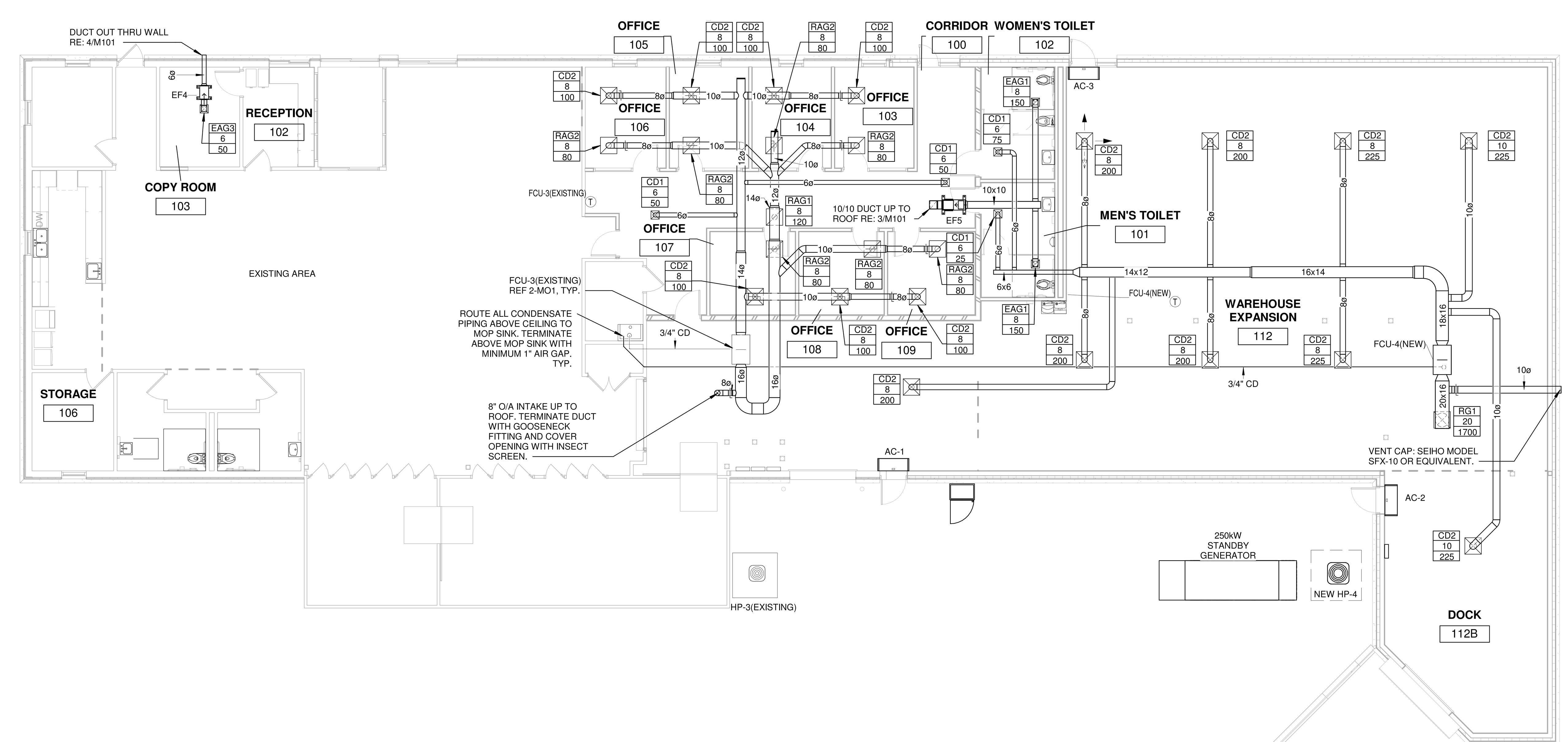
4 EXHAUST FAN INLINE WALL EXHAUST
NOT TO SCALE



3 EXHAUST FAN INLINE MOUNTED
NOT TO SCALE



2 HORIZONTAL FCU DETAIL
NOT TO SCALE



1 FIRST FLOOR HVAC LAYOUT
1/8" = 1'-0"

blue river ARCHITECTS
A Native American Owned Firm
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CHEROKEE NATION
VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK
FIRST FLOOR HVAC PLAN

MPW

MPW ENGINEERING, LLC
110 W. 7TH STREET • SUITE 600
TULSA, OK 74119
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PROJECT #: 20200132

ISSUE DATES:		
CONSTRUCTION DOCUMENTS		02/12/2024
No.	Description	Date

SHEET NUMBER:
M101

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2/9/2024 10:41:24 AM

GENERAL NOTES

1. THE CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY SPECIFICATIONS. CONTRACTOR SHALL BASE SHOP DRAWING DESIGN ON THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS. SPRINKLER SHOP DRAWINGS SHALL INCLUDE ALL NECESSARY ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATION METHODS/NOTES, MATERIAL DATA, CALCULATIONS AND ANY OTHER INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. ANY ALTERNATES IN DESIGN OF THE SYSTEM OR IN MATERIALS OR EQUIPMENT USED MUST BE APPROVED IN WRITING BY THE FIRE PROTECTION ENGINEER OF RECORD PRIOR TO ANY BIDDING, FABRICATION, OR INSTALLATION.
2. CONTRACTOR TO PROVIDE A COMPLETE FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. ANY CONCEALED SPACES OR EXTERIOR CANOPIES EXPOSED TO FREEZING CONDITIONS SHALL BE PROTECTED BY A DRY SYSTEM OR DRY SPRINKLERS IN LIEU OF A WET SPRINKLER SYSTEM AS REQUIRED BY NFPA 13. ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED PER NFPA 13 AND NFPA 72.
3. CONTRACTOR SHALL COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS INCLUDING PIPING, ALARMS, DRAINS, TEST POINTS, ETC., WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. EXTRA SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL OBTAIN CURRENT WATER FLOW TEST INFORMATION FROM WATER DEPARTMENT OR CONDUCT ADDITIONAL FLOW TESTING AS REQUIRED IN ACCORDANCE WITH NFPA 291. HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO THE POINT OF TEST. COORDINATE TESTING AS REQUIRED WITH THE BUILDING MANAGEMENT, WATER DEPARTMENT, AND THE AHJ.
5. A REQUEST FOR INFORMATION SHALL BE SUBMITTED FOR ANY QUESTIONS, COMMENTS, OR REVISIONS TO THE DOCUMENTS.
6. IN OPEN CEILING AREAS ROUTE ALL SPRINKLER MAINS AS HIGH AS POSSIBLE IN STRUCTURE. ROUTE ABOVE THE BOTTOM CHORD WHEN OPEN WEB BAR JOISTS ARE PRESENT.
7. SPRINKLER SYSTEMS SHALL BE MONITORED OFF-SITE INCLUDING TAMPER SWITCHES ON ALL CONTROL VALVES AND FLOW SWITCHES.
8. PENETRATIONS OF RATED WALLS OR ASSEMBLIES SHALL BE FIRE STOPPED WITH APPROVED METHODS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND PROJECT SPECIFICATIONS.
9. THE FIRE PROTECTION ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK. THE CONSTRUCTION PROCEDURES AS SET FORTH BY THE GENERAL CONTRACTOR, SUB-CONTRACTORS, THEIR RESPECTIVE EMPLOYEES, OR ANY OTHER PERSON AT THE JOBSITE OTHER THAN THE ENGINEERING FIRM'S OWN EMPLOYEES.
10. SPRINKLER PROTECTION IS REQUIRED ABOVE THE ELECTRICAL ROOMS. NO MAIN PIPING SHALL PENETRATE OR PASS ABOVE THE ELECTRICAL ROOMS.
11. THE CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATION TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH, OTHER TRADES, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN APPROVAL OF THESE CHANGES BY THE AHJ, AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE CONTRACTOR SHALL MAKE NOTE OF ALL FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS. ONCE COMPLETE, THE CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD AND OWNER FOR THEIR USE.
12. THE CONTRACTOR SHALL DIVERT ALL DRAIN AND INSPECTORS TEST CONNECTION DISCHARGE AWAY FROM FINISHED SURFACES AND PIPE TO APPROVED DRAIN LOCATIONS. THE CONTRACTOR MAY BE BACK CHARGED FOR ANY REPAIR, REPLACEMENT, OR CLEANING OF RUST STAINS ON PAVEMENT/ CONCRETE DUE TO WATER DISCHARGE FROM SPRINKLER SYSTEM DRAIN DOWNS.
13. ALL HANGER CONNECTIONS SHALL BE MADE TO THE TOP CHORD OF STRUCTURAL JOIST UNLESS NOTED OTHERWISE. USE OF SAMMY SCREWS INTO ROOF DECK OR STRUCTURE IS PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.
14. COMPLETED TEST CERTIFICATES ARE TO BE FORWARDED TO FIRE MARSHAL AND FIRE PROTECTION ENGINEER OF RECORD.

PIPE AND FITTINGS

- GATE VALVE
- GLOBE VALVE
- ANGLE GATE VALVE
- SOLENOID VALVE
- NON SLAM CHECK VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- BALL VALVE
- TWO WAY CONTROL VALVE
- PRESSURE REGULATOR
- THREE WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- BUTTERFLY VALVE
- AUTOMATIC AIR VENT
- STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB
- FLEXIBLE CONNECTION
- JOINT
- EXPANSION JOINT
- FLOW METER
- FLOW DIRECTION
- ELBOW BASE
- ELBOW REDUCING
- UNION
- PRESSURE GAUGE WITH TRI-COCK
- PRESSURE INDICATOR
- TEST PLUG
- TEMPERATURE INDICATOR
- FLOW SWITCH
- FLOW INDICATOR
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC STRAIGHT CROWN
- REDUCER, ECCENTRIC STRAIGHT INVERT
- AUTO FLOW BALANCING VALVE
- FLOOR DRAIN W/P-TRAP
- FLOOR CLEANOUT
- WALL CLEANOUT
- BACKFLOW PREVENTER
- LUBRICATED PLUG COCK
- HOSE BIBB W/VACUUM BREAKER
- CAPPED END
- SIDEWALL SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIAMESE FIRE DEPARTMENT CONNECTION
- ALARM CHECK VALVE
- DELUGE VALVE
- PIPE SWAY BRACING
- PIPE ANCHOR SUPPORT
- BALANCING VALVE

ABBREVIATIONS

A	A	AIR
	ABV	ABOVE
	ACCU	AIR COOLED CONDENSING UNIT
	ACL	ACETYLENE GAS
	ACU	AIR CONDITIONING UNIT
	AD	ACCESS DOOR
	AF	AIR FILTER
	AFF	ABOVE FINISHED FLOOR
	AFH	AIR FILTER, HIGH EFFICIENCY
	AHU	AIR HANDLING UNIT
	APD	AIR PRESSURE DROP
	AR	ACID RESISTANT
	ASSY	ASSEMBLY
	AUX	AUXILIARY
	AV	AUTOMATIC AIR VENT
B	BDD	BACKDRAFT DAMPER
	BHP	BRAKE HORSE POWER
	BP	BACKFLOW PREVENTER
	BS	BIRD SCREEN
C	C	CONDENSATE
	C/L	CENTER LINE
	CD	CEILING DIFFUSER
	CFM	CUBIC FEET PER MINUTE
	CH	CHILLER
	CHDR	CHEMICAL DRAIN
	CHP	CHILLED WATER PUMP
	CLG	CEILING
	CO	CLEANOUT
	CONC	CONCRETE
	CONN	CONNECTION
	CONT	CONTINUED/CONTINUATION/CONTINUOUS
	COTG	CLEAN OUT TO GRADE
	CU	CONDENSING UNIT/COPPER
	CV	CONSTANT VOLUME
	CW	COLD WATER
D	DDC	DIRECT DIGITAL CONTROL
	DG	DOOR GRILLE
	DIA	DIAMETER
	DIM	DIMENSION
	DMPR	DAMPER
	DN	DOWN
	DPS	DIFFERENTIAL PRESSURE SWITCH
	DR	DRAIN
	DSD	DUCT SMOKE DETECTOR
	DSW	DISTILLED WATER
	DWG	DRAWING
E	EAT	ENTERING AIR TEMPERATURE
	ED	EQUIPMENT DRAIN
	EDB	ENTERING DRY BULB
	EER	ENERGY EFFICIENCY RATIO
	EF	EXHAUST FAN
	EFF	EFFICIENCY
	EG	EXHAUST GRILLE
	EL	ELEVATION
	ELEC	ELECTRICAL
	ENT	ENTERING
	ER	EXHAUST REGISTER
	EWB	ENTERING WET BULB
	EWC	ELECTRIC WATER COOLER
	EWT	ENTERING WATER TEMPERATURE
	EXH	EXHAUST
	EWS	EYE WASH/SHOWER STATION
F	FCO	FLOOR CLEANOUT
	FD	FIRE DAMPER/FLOOR DRAIN
	FH	FUME HOOD
	FL	FLOOR
	FLEX	FLEXIBLE
	FOR	FUEL OIL RETURN
	FOS	FUEL OIL SUPPLY
	FP	FIRE PUMP
	FPI	FINS PER INCH
	FPM	FEET PER MINUTE
	FT	FEET
	FV	FACE VELOCITY
G	GA	GAUGE
	GIV	GRAVITY INTAKE VENTILATOR
	GND	GROUND
	GPM	GALLONS PER MINUTE
	GRV	GRAVITY RELIEF VENTILATOR
H	HB	HOSE BIBB
	HORIZ	HORIZONTAL
	HP	HORSE POWER/HEAT PUMP
	HTG	HEATING
	HUMID	HUMIDISTAT
	HWS	HOT WATER SUPPLY
	HWB	HOT WATER BOILER
	HWP	HOT WATER PUMP
	HWR	HOT WATER RETURN
I	ID	INSIDE DIAMETER
	IN	INCHES
	INV EL	INVERT ELEVATION
K	KW	KILOWATT
L	LAB	LABORATORY
	LAT	LEAVING AIR TEMPERATURE
	LAV	LAVATORY
	LB	POUND
	LD	LINEAR DIFFUSER
	LDB	LEAVING DRY BULB
	LF	LINEAR FEET
	LFD	LAMINAR FLOW DIFFUSER
	LP	LIQUID PROPANE
	L/S	LITERS PER SECOND
	LWB	LEAVING WET BULB
	LWT	LEAVING WATER TEMPERATURE
M	MAU	MAKE-UP AIR UNIT
	MAX	MAXIMUM
	MB	MIXING BOX/MOP BASIN
	MBH	THOUSAND BTU/HR
	MD	MOTORIZED DAMPER
	MECH	MECHANICAL
	MIN	MINUTE/MINIMUM
	MM	MILLIMETERS
	MS	MOTOR STARTER
N	N	NITROGEN
	NC	NORMALLY CLOSED
	NG	NATURAL GAS
	NIC	NOT IN CONTRACT
	NO	NUMBER
	NOX	NITROGEN OXIDE
	NTS	NOT TO SCALE
O	O	OXYGEN
	OA	OUTSIDE AIR
	OAL	OUTSIDE AIR LOUVER
	OBD	OPPOSED BLADE DAMPER
	OC	ON CENTER
	OS	OVERFLOW SCUPPER
	OS&Y	OUTSIDE SCREW & YOKE
P	PD	PRESSURE DROP
	POC	POINT OF CONNECTION
	PRESS	PRESSURE
	PRV	PRESSURE REDUCING VALVE
	PSIG	POUNDS PER SQUARE INCH
	PVC	POLYVINYL CHLORIDE
R	RA	RETURN AIR
	RAG	RETURN AIR GRILLE
	RAR	RETURN AIR REGISTER
	RC	RAIN CONDUCTOR
	RD	ROOF DRAIN
	REF	REFERENCE
	RF	RETURN FAN
	RL	RAIN LEADER
	RM	ROOM
	RTN	RETURN
S	SA	SUPPLY AIR
	SAG	SUPPLY AIR GRILLE
	SAN	SANITARY
	SAR	SUPPLY AIR REGISTER
	SD	SMOKE DAMPER
	SD/FD	COMB. SMOKE DAMPER/FIRE DAMP.
	SF	SUPPLY FAN
	SH	SHEET
	SP	STATIC PRESSURE
	SQ FT	SQUARE FEET
	SST	STAINLESS STEEL
T	TCU	TERMINAL CONTROL UNIT
	TEMP	TEMPERATURE
	TG	TRANSFER GRILLE
	TP	TRAP PRIMER
	TYP	TYPICAL
U	UC	UNDERCUT
V	V	VENT
	VAV	VARIABLE AIR VOLUME
	VD	VOLUME DAMPER
	VEL	VELOCITY
	VERT	VERTICAL
	VFD	VARIABLE FREQUENCY DRIVE
	VSD	VARIABLE SPEED DRIVE
	VTR	VENT THRU ROOF
W	W/	WITH
	W/O	WITHOUT
	WCO	WALL CLEANOUT
	WC	WATER COLUMN
	WH	WALL HYDRANT
	WHA	WATER HAMMER ARRESTORS
	WR	WATER RISER
	WTR	WATER

DOMESTIC WATER GENERAL NOTES

1. CUTOFF VALVES AND STOPS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS AND AT FIXTURE CONNECTIONS.
2. TEST ALL WATER SYSTEM IN PRESENCE OF OWNER'S REPRESENTATIVE AT MIN. 100 PSIG FOR 8 HOURS. SANITARY, WASTES, AND VENTS SHALL BE TESTED WITH 10' HEAD OF WATER FOR 8 HOURS WITH LEVEL OF WATER REMAIN UNCHANGED.
3. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
4. INSTALL ALL WATER PIPING SYSTEMS SO THAT THEY WILL NOT BE SUBJECT TO ANY UNDUE STRAINS OR STRESSES. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT.
5. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR CEILING ASSEMBLY SHALL BE INSTALLED AND SEALED TO MAINTAIN FIRE RATING WITH U.L. LISTED ASSEMBLIES, MATERIALS AND SEALANTS.
6. BELOW GROUND PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW FROST LINE. REFER TO STRUCTURAL DETAILS FOR FOUNDATION PENETRATION.
7. DRAWING IS DIAGRAMMATIC IN NATURE AND IS NOT INTENDED TO BE SCALED FOR DIMENSIONS.
8. COORDINATE LOCATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
9. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR, WITHOUT EXTRA COST FOR THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A WATER FLOW AND PRESSURE TEST FOR EVALUATING INCOMING DOMESTIC AND FIRE PROTECTION SERVICE PRESSURES.
11. WHERE STREET WATER MAIN PRESSURES FLUCTUATE, THE BUILDING WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED FOR MINIMUM PRESSURE AVAILABLE. WHEREVER WATER PRESSURE FROM THE STREET MAIN OR OTHER SOURCE OF SUPPLY IS LESS THAN 60 PSI, A WATER PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED ON THE BUILDING WATER SUPPLY SYSTEM. WHERE WATER PRESSURE WITHIN A BUILDING EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED TO REDUCE THE PRESSURES TO BELOW 80 PSI.

SANITARY SEWER GENERAL NOTES

1. PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 50 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL, GREATER THAN 45º. AT THE BASE OF EACH WASTE OR VENT STACK 5 FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR FLOORS.
2. THE FLOOR DRAIN IN TOILETS AND LOCKERS AREAS SHALL BE PROVIDED WITH BACKWATER VALVES.
3. MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 24" ABOVE EACH OUTSIDE AIR INTAKE.
4. VTR'S ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR.
5. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. TEST ALL SEWER AND VENT SYSTEMS IN PRESENCE OF OWNER'S REPRESENTATIVE.
6. INVERT ELEVATION SHOWN BASED ON 100.0 FT. FF ELEVATION, REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATIONS.
7. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6" BELOW THE FROST LINE.

NOTE:
THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PLUMBING SPECIALTIES SCHEDULE

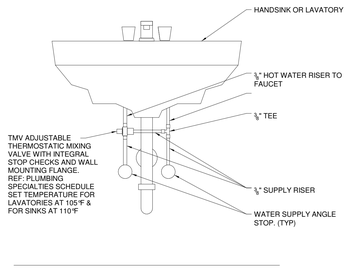
MARK	MFR/MODEL	DESCRIPTION
TP	ZURN MOD. Z1021	ZURN Z1021 WATER SAVER TRAP PRIMER, CHROME PLATED POLISHED CAST BRASS BODY WITH CLEANOUT
TMV	LEONARD 170	MIXING VALVE, THERMOSTATIC TYPE, BRONZE BODY, TEMPERATURE ADJUSTMENT, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS RATED 3.5 GPM AT 5 PSI AVAILABLE PRESSURE DROP.

NOTES:
1. ALL DEVICES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER INSTRUCTIONS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
2. THE DEVICE DESCRIPTION IN THE SCHEDULE TAKES PRECEDENCE OVER MODEL NUMBERS. FIXTURE SUPPLIER SHALL PROVIDE THE REQUIRED ACCESSORIES AND OPTIONS FOR THE INTENDED INSTALLATION AND USE.
3. OTHER MANUFACTURERS OFFERING EQUIVALENT PRODUCTS ARE ACORN, JOSAM, MIFAB, WATTS, WADE, J.R. SMITH, SYMMONS, POWERS, LAWLER AND WATTS.
4. ALL FIXTURES REQUIRED LEAD FREE

PLUMBING FIXTURE SCHEDULE

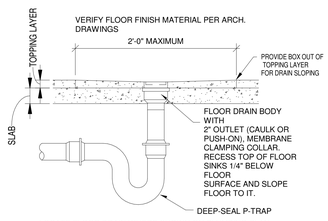
MARK	UNIT TYPE	BRANCH SIZES (MIN)				MANUFACTURER & MODEL	FAUCET	DESCRIPTION
		WASTE	VENT	CW	HW			
WC1	TANK TYPE RIGHT FLUSH	4"	2"	1/2"		AMERICAN STANDARD 3461.001	---	VIRTEOUS CHINA, GERM-FREE NO TOUCH FLUSH, BATTERY POWERED, HIGH EEFICIENCY(4.8 LPF/1.28 GPF), 12 INCH (305mm) ROUGH-IN, 16-1/2 RIM HEIGHT FOR ACCESSIBLE APPLICATIONS.
LAV	WALL-HUNG LAVATORY	2"	1 1/2"	1/2"	1/2"	AMERICAN STANDARD 0356.421	KOHLER K-13460	19" x 17" ENAMELED CAST IRON WALL HUNG LAVATORY, WITH 4" CENTER FAUCET HOLES. DELTA TOUCHLESS FAUCET MAX FLOW RATE IS 1.20 GPM @ 60 PSI, BATTERY POWERED. PROVIDE ASSE 1070 APPROVED THERMOSTATIC MIXING VALVE. NO GREATER THAN 105 DEGREES FAHRENHEIT.
UR1	URINAL	2"	1 1/2"	3/4"		AMERICAN STANDARD 6002.001	---	VIRTEOUS CHINA, GERM-FREE NO TOUCH FLUSH, BATTERY POWERED, HIGH EEFICIENCY(.125 GPF).
FD 2"	FLOOR DRAIN	2"	2"			ZURN Z-415S		ROUND CAST IRON BODY WITH FLASHING COLLAR, 6" SQUARE NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED SQUARE HOLE GRATE, BOTTOM WASTE OULET AND TRAP PRIMER CONNECTION. AUTOMATIC TRAP PRIMER MANUFACTURED BY P.P.P. OR PROSET TRAP GUARD DRAIN IF CODE ALLOWS.
4" FCO	FLOOR CLEANOUT	4"	2"			ZURN Z%1400		CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.
4" WCO	WALL CLEAN-OUT	4"				ZURN Z1470 (Z1469)		THREADED, COUNTERSUNK BRONZE OR POLYPROPYLENE CLEANOUT PLUG. (PROVIDE DRILLED TAP FOR CENTER SCREW AND STAINLESS STEEL COVER FOR FINISHED AREAS)
EWC	WATER COOLER	2"	1 1/2"	1/2"		ELKAY EZSTL8LC		ELKAY VERSATILE COOLER WALL MOUNT BI-LEVEL ADA NON-FILTERED, LIGHT GRAY GRANITE, CHILLING CAPACITY OF 8.0 GPH OF 50° F WATER, BASED ON 80 DF INLET WATER AND 90 DF AMBIENT PER ASHRAE 18 TESTING

NOTES:
1. CONTRACTOR TO COORDINATE FINAL SELECTIONS OF ALL PLUMBING FIXTURES WITH OWNER PRIOR TO ORDERING.
2. TOILET ROOM FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER EQUAL TO JAY R. SMITH "PRIME-EZE". TRAP PRIMER TO BE FED FROM LAVATORY P-TRAPS.



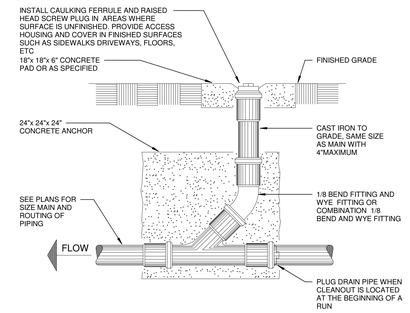
TYPICAL ELEVATION

1 UNDER-SINK MIXING VALVE (TMV)
NTS

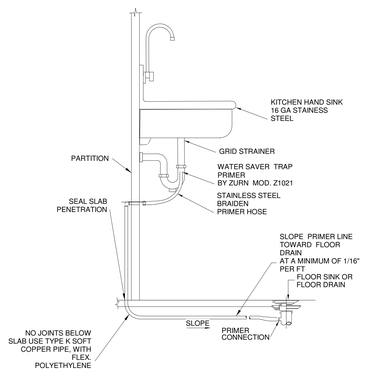


LOCATE FLOOR DRAIN WHERE SHOWN ON PLUMBING PLAN.

2 OPEN AREA FLOOR DRAIN (FD1)
NTS

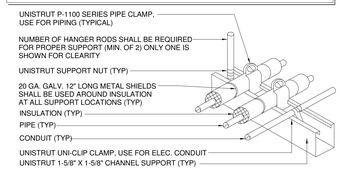


3 GRADE CLEANOUT
NOT TO SCALE



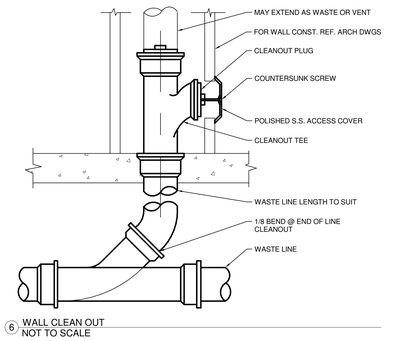
4 WATER SAVER TRAP PRIMER DETAIL
NOT TO SCALE

CONTRACTOR TO PROVIDE INSULATION & HEAT TRACING FOR ALL
WATER LINES IN UNCONDITIONED SPACES, ABOVE CEILINGS, IN OUTSIDE WALLS AND ON ANY PIPING SUBJECT TO FREEZING INSIDE
OR OUTSIDE THE BUILDING.



NOTES:
1. ALL PIPE CONDUIT, ETC. OF ALL TRADES SHALL BE COMBINED ON SAME SUPPORT CHANNEL WHERE PRACTICAL.
2. SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING, CONDUIT, ETC. TO BE SUPPORTED IS COORDINATED.
3. SUPPORT CHANNEL SPACING SHALL BE NO MORE THAN 10'-0"

5 PIPING SUPPORT TRAPEZE
NTS



6 WALL CLEAN OUT
NOT TO SCALE

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CHEROKEE NATION
VINITA FOOD DISTRIBUTION CENTER EXPANSION
VINITA, OK
PLUMBING NOTES AND DETAILS

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SCOTT C. WEBB
18011
2-12-24
OKLAHOMA

PROJECT #: 20200132

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	CONSTRUCTION DOCUMENTS	02/12/2024

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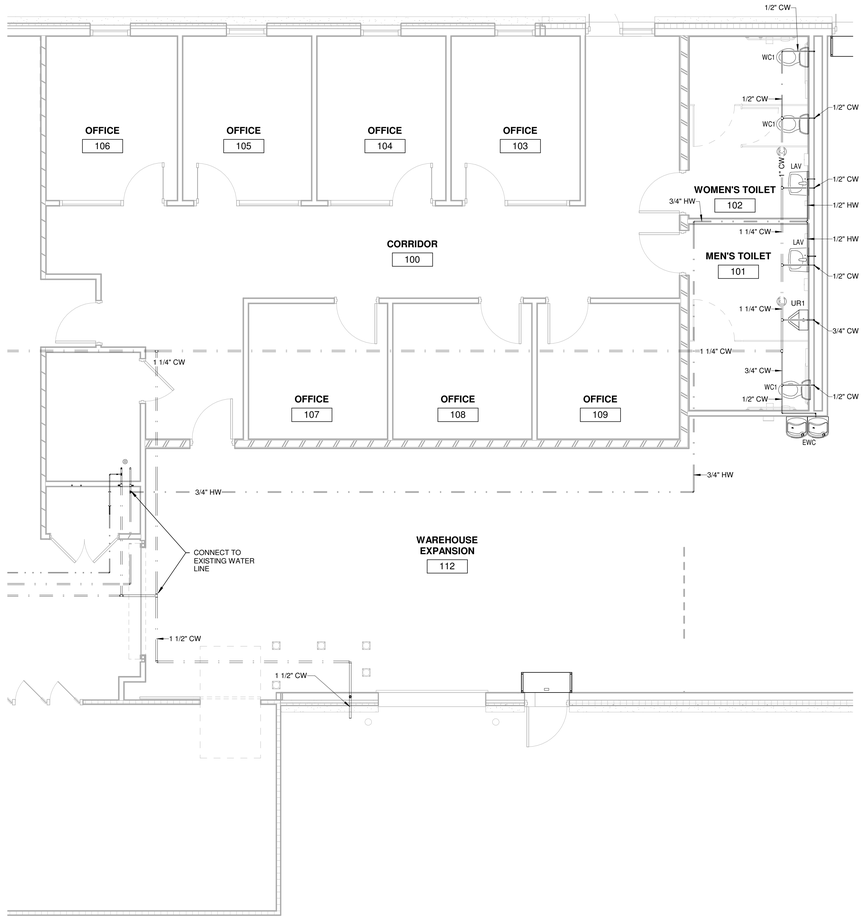
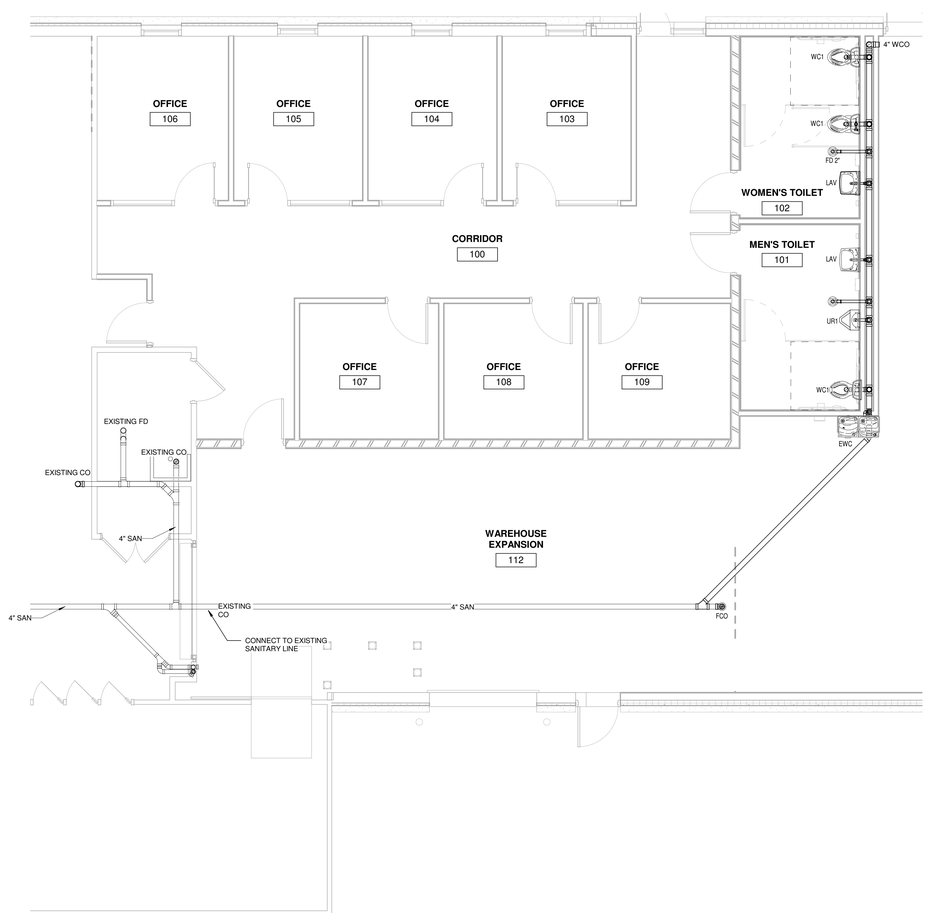


2 FIRST FLOOR DOMESTIC WATER PLAN
1/4" = 1'-0"



1 FIRST FLOOR SANITARY PIPING PLAN
1/4" = 1'-0"

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CHEROKEE NATION
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VINITA, OK

FIRST FLOOR DOMESTIC WATER AND SANITARY PLAN

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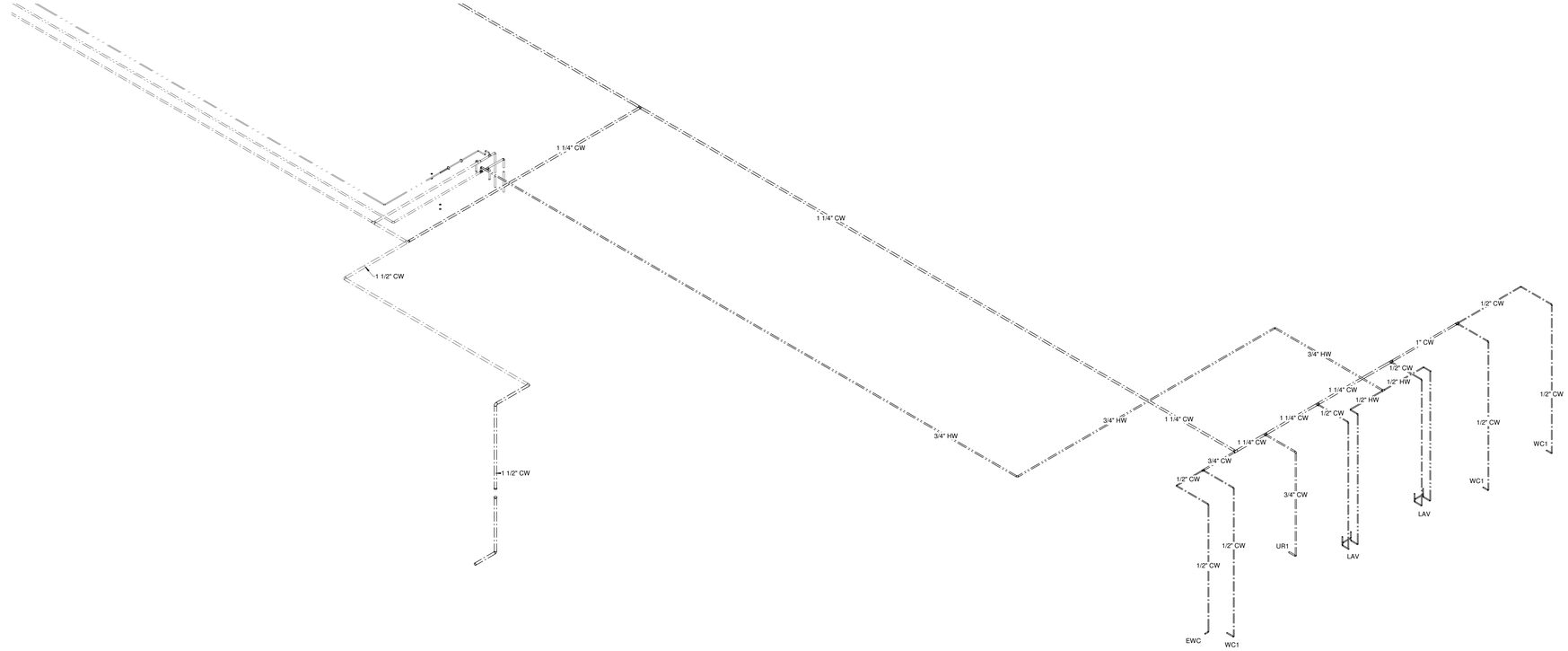
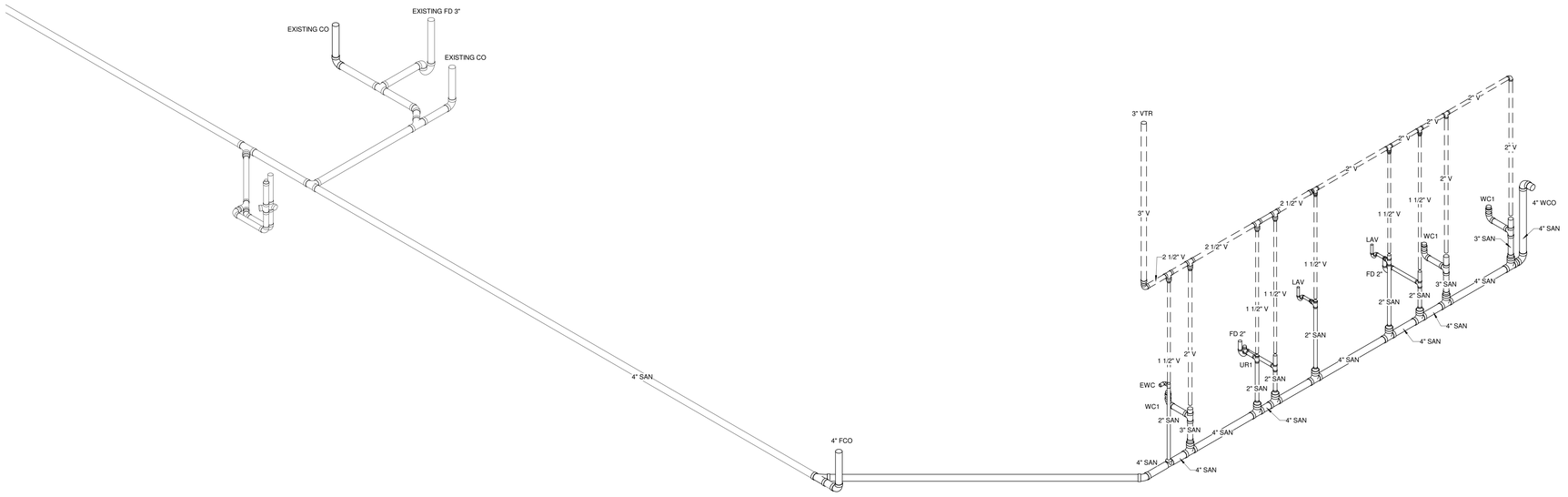


2 PLUMBING DOMESTIC WATER RISER



1 PLUMBING SANITARY RISERS

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LP-3 — PANELBOARD

120/208 Wye, 3PH, 4W
125 A, M.L.O.

EXISTING

Surface

SERVES:
LOCATION:

	DESCRIPTION	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	DESCRIPTION	
1	ltg - building exterior	12	20 A	1	0.08 0.18			1	20 A	12	rcpt - kitchen counter	2
3	rcpt - office (COPIER)	12	20 A	1		1.20 0.72		1	20 A	12	rcpt - office	4
5	ltg - canopy	12	20 A	1			0.16 0.54	1	20 A	12	rcpt - convenience	6
7	rcpt - convenience	12	20 A	1	0.36 1.23			1	20 A	12	ltg - open space	8
9	ltg - warehouse	12	20 A	1		0.81 0.18		1	20 A	12	rcpt - telephone board	10
11	ltg - kitchen / restroom	12	20 A	1			1.59 0.36	1	20 A	12	rcpt - building exterior	12
13	rcpt - reception desk	12	20 A	1	0.36 0.18			1	20 A	12	rcpt - kitchen counter	14
15	spare	--	20 A	1		0.00 0.36		1	20 A	12	rcpt - open space	16
17	rcpt - reception desk	12	20 A	1			0.36 0.36	1	20 A	12	rcpt - utility closet	18
19	rcpt - checkouts	12	20 A	1	0.36 0.36			1	20 A	12	rcpt - it room	20
21	rcpt - it room	12	20 A	1		0.36 0.54		1	20 A	12	rcpt - office	22
23	rcpt - kitchen peninsula	12	20 A	1			0.36 0.36	1	20 A	12	rcpt - warehouse	24
25	rcpt - it room	12	20 A	1	0.54 0.36			1	20 A	12	RCPT - SELF CHECKOUT	26
27	rcpt - checkouts	12	20 A	1		0.72 0.36		1	20 A	12	RCPT - SELF CHECKOUT	28
29	rcpt - warehouse	12	20 A	1			0.18 0.54	1	20 A	12	RCPT - OFFICE	30
31	ltg - attic lights	12	20 A	1	0.50 0.54			1	20 A	12	RCPT - OFFICE	32
33	RCPT - RESTROOM	12	20 A	1		0.36 0.54		1	20 A	12	RCPT - OFFICE	34
35	RCPT - CONV. & WAREHOUSE	12	20 A	1			0.72 0.54	1	20 A	12	RCPT - OFFICE	36
37	space	--	--	1	-- 0.54			1	20 A	12	RCPT - OFFICE	38
39	space	--	--	1		-- 0.54		1	20 A	12	RCPT - OFFICE	40
41	space	--	--	1			-- 0.54	1	20 A	12	EWC	42
	TOTAL CONNECTED				5.59	6.69	6.61	KVA				
	TOTAL CONNECTED				46.58	57.06	56.39	AMPS				
	TOTAL LOAD				18.89	KVA	52.43	AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				18.89	KVA	52.43	AMPS				

LP-1 — PANELBOARD

120/208 Wye, 3PH, 4W
600 A, M.L.O.

EXISTING

Surface

SERVES:
LOCATION:

	DESCRIPTION	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	DESCRIPTION	
1	fcu-1	6	50 A	3	5.76 3.36			3	45 A	6	hp-1	2
3	--	--	--	--		5.76 3.36		--	--	--	--	4
5	--	--	--	--			5.76 3.36	--	--	--	--	6
7	fcu-2	8	35 A	3	3.84 1.80			3	25 A	10	hp-2	8
9	--	--	--	--		3.84 1.80		--	--	--	--	10
11	--	--	--	--			3.84 1.80	--	--	--	--	12
13	fcu-3	6	45 A	2	4.65 0.00			1	20 A	--	spare	14
15	--	--	--	--		4.65 1.46		2	25 A	10	hp-3	16
17	freezer - evap	10	20 A	2			1.42 1.46	--	--	--	--	18
19	--	--	--	--	1.42 0.00			1	20 A	--	spare	20
21	cooler - evap	10	20 A	2		1.62 1.80		3	30 A	10	freezer - cu-1	22
23	--	--	--	--			1.62 1.80	--	--	--	--	24
25	mau	8	35 A	3	4.00 1.80			--	--	--	--	26
27	--	--	--	--		4.00 1.80		3	30 A	10	cooler - cu-2	28
29	--	--	--	--			4.00 1.80	--	--	--	--	30
31	PANELBOARD LP-4		225 A	3	10.19 1.80			--	--	--	--	32
33	--	--	--	--		10.54 1.56		2	20 A	12	hp-4	34
35	--	--	--	--			10.28 1.56	--	--	--	--	36
37	panelboard LP-3	3	100 A	3	5.59 9.41			3	100 A	3	panelboard LP-2	38
39	--	--	--	--		6.69 11.81		--	--	--	--	40
41	--	--	--	--			6.61 8.61	--	--	--	--	42
	TOTAL CONNECTED				53.63	60.69	53.93	KVA				
	TOTAL CONNECTED				446.95	506.14	449.81	AMPS				
	TOTAL LOAD				168.26	KVA	467.03	AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				168.26	KVA	467.05	AMPS				

LP-4 — PANELBOARD

120/208 Wye, 3PH, 4W
225 A, M.L.O.

NEW

Surface

SERVES:
LOCATION:

	DESCRIPTION	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	DESCRIPTION	
1	LTG - EXTERIOR WH	12	20 A	1	0.35 2.64			3	30 A	10	HP-4	2
3	SPARE	--	20 A	1		0.00 2.64		--	--	--	--	4
5	RCPT - RECEIVING	12	20 A	1			0.36 2.64	--	--	--	--	6
7	LTG - OFFICE	12	20 A	1	0.68 2.30			2	30 A	10	FORKLIFT CHARGER	8
9	SPARE	--	20 A	1		0.00 2.30		--	--	--	--	10
11	RCPT - RECEIVING	12	20 A	1			0.36 0.78	1	15 A	12	AC-1	12
13	LTG - WAREHOUSE	12	20 A	1	1.24 0.78			1	15 A	12	AC-2	14
15	SPARE	--	20 A	1		0.00 5.60		2	60 A	4	FCU-4	16
17	RCPT - OFFICE	12	20 A	1			0.54 5.60	--	--	--	--	18
19	RCPT - WAREHOUSE	12	20 A	1	0.54 0.78			1	15 A	12	AC-3	20
21	SPARE	--	20 A	1		0.00 --		1	--	--	SPACE	22
23	SPARE	--	20 A	1			0.00 --	1	--	--	SPACE	24
25	RCPT - EXTERIOR	12	20 A	1	0.90 --			1	--	--	SPACE	26
27	SPARE	--	20 A	1		0.00 --		1	--	--	SPACE	28
29	SPARE	--	--	1			0.00 --	1	--	--	SPACE	30
31	SPARE	--	20 A	1	0.00 --			1	--	--	SPACE	32
33	SPARE	--	20 A	1		0.00 --		1	--	--	SPACE	34
35	SPARE	--	20 A	1			0.00 --	1	--	--	SPACE	36
37	SPARE	--	20 A	1	0.00 --			1	--	--	SPACE	38
39	SPARE	--	20 A	1		0.00 --		1	--	--	SPACE	40
41	SPARE	--	20 A	1			0.00 --	1	--	--	SPACE	42
	TOTAL CONNECTED				10.19	10.54	10.28	KVA				
	TOTAL CONNECTED				84.95	87.92	85.75	AMPS				
	TOTAL LOAD				31.01	KVA	86.07	AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				31.01	KVA	86.08	AMPS				

LP-2 — PANELBOARD

120/208 Wye, 3PH, 4W
125 A, M.L.O.

EXISTING

Surface

SERVES:
LOCATION:

	DESCRIPTION	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	DESCRIPTION	
1	rcpt - freezer heat tape	12	20 A	1	0.18 1.00			1	20 A	12	rcpt - refrigerator	2
3	rcpt - coffee maker	10	20 A	1		1.67 1.10		1	20 A	10	rcpt - microwave	4
5	ice machine	10	20 A	1			0.60 1.00	1	20 A	12	rcpt - refrigerator	6
7	rcpt - microwave	10	20 A	1	1.10 1.20			1	20 A	12	RCPT - COPIER	8
9	rcpt - building exterior	12	20 A	1		0.36 3.00		2	40 A	8	wh-1	10
11	rcpt - food waste disposal	8	20 A	1			1.67 3.00	--	--	--	--	12
13	RCPT - COPIER	12	20 A	1	1.20 1.20			1	20 A	12	RCPT - COPIER	14
15	range	10	30 A	2		2.25 0.00		1	20 A	--	spare	16
17	--	--	--	--			2.25 0.00	2	30 A	--	SPARE (PREVIOUS EQUIPMENT)	18
19	commercial dishwasher	8	45 A	2	3.43 0.00			--	--	--	--	20
21	--	--	--	--		3.43 0.00		1	20 A	--	spare	22
23	spare	--	20 A	1			0.00 0.10	1	20 A	12	EF-4	24
25	spare	--	20 A	1	0.00 0.10			1	20 A	12	EF-5	26
27	spare	--	20 A	1		0.00 --		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
37	space	--	--	1	-- --			1	--	--	space	38
39	space	--	--	1		-- --		1	--	--	space	40
41	space	--	--	1			-- --	1	--	--	space	42
	TOTAL CONNECTED				9.41	11.81	8.61	KVA				
	TOTAL CONNECTED				79.42	99.43	71.78	AMPS				
	TOTAL LOAD				29.83	KVA	82.81	AMPS				
	PER NEC ARTICLE 220 FEEDER LOAD				29.83	KVA	82.81	AMPS				

GENERAL NOTES

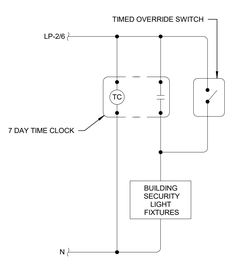
1. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
2. ELECTRICAL CONSTRUCTION DRAWINGS HAVE BEEN PREPARED BASED ON THE ENGINEER'S FIELD OBSERVATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID IN ORDER TO VERIFY THE EXTENT OF THE CONSTRUCTION WORK AND THE ACTUAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. SUBMITTAL OF BID SHALL BE CONSIDERED PROOF THAT THE CONTRACTOR HAS VISITED THE JOB SITE AND IS FAMILIAR WITH THE SITE SPECIFIC CONSTRUCTION REQUIREMENTS.
3. PROTECT ALL ADJACENT SURFACES DURING CONSTRUCTION. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT.
5. PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:
   A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.
   B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAIL.
   C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
6. PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN PVC TYPE CONDUIT, POWER CIRCUITS, ISOLATED GROUND CIRCUITS, OR AS SHOWN ON PLANS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
7. WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY.
   A. SWITCHES +48"
   B. RECEPTACLES +18"
   C. TELEPHONE +48"
   D. TELEPHONE/DATA +18"
8. WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES.
10. BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR THE FINAL CONNECTION (15-FT MAXIMUM).
11. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
12. PROVIDE APPROPRIATE HANDLE TIES FOR EITHER TWO OR THREE SINGLE POLE BRANCH CIRCUIT BREAKERS AS REQUIRED WHEN UTILIZING MULTI-WIRE BRANCH CIRCUITS PER NEC ARTICLE 210.4 PART (B).
13. CONDUITS EXTENDING BEYOND EXTERIOR WALL: STUB OUT 2'-0" BELOW GRADE TO 5'-0" BEYOND EXTERIOR WALLS UNLESS NOTED OTHERWISE. COORDINATE LOCATION AND PROVIDE CONNECTION TO SITE CONDUITS.
14. ONLY FEEDER CIRCUITS SPECIFICALLY NOTED AS UNDERGROUND ON THE ONE LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD.
15. ENSURE ALL PANELBOARDS HAVE REQUIRED VOLTAGE WARNING LABELS AND ARC FLASH WARNING LABELS. INSTALL NEW LABELS IF EXISTING LABEL IS DAMAGED OR MISSING FOR ALL PANELBOARDS.
16. HOMERUNS ARE SHOWN SEPERATELY TO PRESERVE DRAWING CLARITY. COMBINE HOMERUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.
17. CONTRACTOR TO INSTALL WALL BOXES AND CONDUIT WITH PULL CORD FOR DATA/PHONE WIRING.
18. MINIMIZE SURFACE MOUNTED CONDUIT USED. MINIMIZE VISIBILITY OF SURFACE MOUNTED CONDUIT. KEEP CONDUIT TO CORNERS AND COMBINE CONDUIT RUNS WHEN POSSIBLE PER NEC.
19. REFERENCE ARCHITECTURAL FOR ADDITIONAL ALTERNATE BID INFORMATION.
20. VERIFY ALL DATA/TELEPHONE LOCATIONS AND QUANTITIES WITH OWNER PRIOR TO ROUGH-IN.
21. CONCEAL ALL WORK WHEREVER POSSIBLE. WHEREVER IT IS PHYSICALLY IMPRACTICAL TO CONCEAL CONDUITS DUE TO ECONOMIC CONSIDERATIONS, THE ENGINEER SHALL CONSULT WITH THE OWNER TO DETERMINE ACCEPTABLE ALTERNATIVES.
22. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING COMPONENTS AND SYSTEMS TO WHICH THEY INTERFACE.
23. CONTRACTOR IS TO REMOVE LIGHT FIXTURES DEMOLISHED AND RETURN TO OWNER.
24. ALL PENETRATIONS THROUGH THE WALK IN COOLER/FREEZER ARE TO BE SEALED WITH SILICONE AROUND THE INTERIOR AND EXTERIOR OF THE CONDUITS TO PREVENT CONDENSATION.

ELECTRICAL SYMBOL LEGEND

$	SWITCH, SINGLE POLE
$K	SWITCH, KEYED
$3	SWITCH,THREE WAY
$OS ⓊOS	OCCUPANCY SENSOR
	EMERGENCY LIGHT
	8' FIXTURE
	4' FIXTURE
	RECESSED DOWNLIGHT
	EXIT
	STRIP
	WALL WASH
	2X2 RECESSED
	2X4 RECESSED
	2X2 RECESSED EMERGENCY
	2X4 RECESSED EMERGENCY
	CEILING FAN
	HIGH BAY
	RECEPTACLE, FLOOR MOUNTED RECESSED
	DATA/TELEPHONE
J	JUNCTION BOX
	RECEPTACLE, DUPLEX
	RECEPTACLE, DOUBLE DUPLEX
USB	RECEPTACLE, DUPLEX WITH USB
	RECEPTACLE, GFCI
	PANELBOARD
	PUSH BUTTON
S	SMOKE DETECTOR
H	HEAT DETECTOR
F	HORN STROBE
	STROBE
FACP	FIRE ALARM CONTROL PANEL

ABBREVIATIONS:

CF	CEILING FAN
ETR	EXISTING TO REMAIN
INV	INVERTER
NL	NIGHT LIGHT
WP	WEATHER PROOF
WR	WEATHER RESISTANT
AC	ABOVE COUNTER

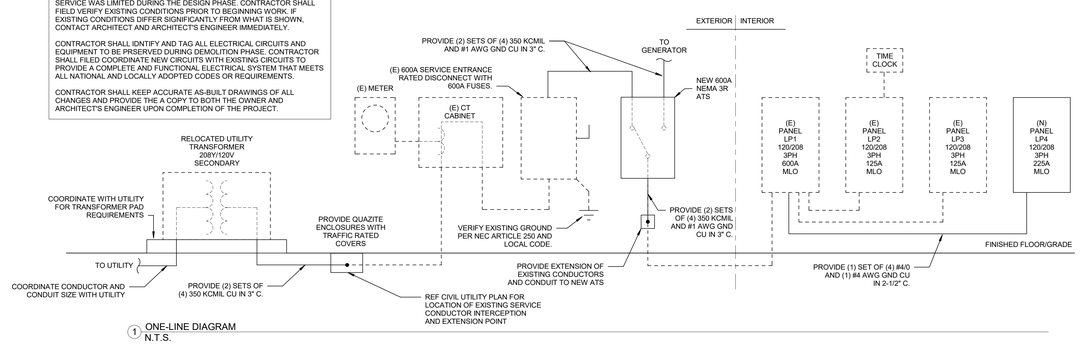


2 LIGHTING CONTROL TIMER DIAGRAM
N.T.S.

ACCESS TO EXISTING FIELD CONDITIONS INCLUDING INCOMING ELECTRICAL SERVICE WAS LIMITED DURING THE DESIGN PHASE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK. IF EXISTING CONDITIONS DIFFER SIGNIFICANTLY FROM WHAT IS SHOWN, CONTACT ARCHITECT AND ARCHITECT'S ENGINEER IMMEDIATELY.

CONTRACTOR SHALL IDNTIFY AND TAG ALL ELECTRICAL CIRCUITS AND EQUIPMENT TO BE PRSERVED DURING DEMOLITION PHASE. CONTRACTOR SHALL FILED COORDINATE NEW CIRCUITS WITH EXISTING CIRCUITS TO PROVIDE A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM THAT MEETS ALL NATIONAL AND LOCALLY ADOPTED CODES OR REQUIREMENTS.

CONTRACTOR SHALL KEEP ACCURATE AS-BUILT DRAWINGS OF ALL CHANGES AND PROVIDE THE A COPY TO BOTH THE OWNER AND ARCHITECT'S ENGINEER UPON COMPLETION OF THE PROJECT.



1 ONE-LINE DIAGRAM
N.T.S.

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CHEROKEE NATION VINITA FOOD DISTRIBUTION CENTER EXPANSION

VINITA, OK

ELECTRICAL NOTES

MPW

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LICENSED PROFESSIONAL ENGINEER
AARON MORSE
20489
OKLAHOMA
2-12-24

PROJECT #: 20200132

ISSUE DATES:

CONSTRUCTION DOCUMENTS	02/12/2024

No.	Description	Date

SHEET NUMBER:

E001

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Lighting Fixture Schedule				
TYPE	COUNT	WATTAGE	LAMP	DESCRIPTION
A	14	32 VA	LED	2'x4' LED LIGHT FIXTURE 4000K 2000 LUMEN - MATCH EXISTING
C	7	23 VA	LED	6IN RECESSED CAN 4000K 2500 LUMEN - MATCH EXISTING RESTROOMS
F	3	25 VA	LED	4' SUSPENDED PENDANT FIXTURE 4000K 3000 LUMEN - BASIS OF DESIGN CORELITE RZL
FE	1	25 VA	LED	4' SUSPENDED PENDANT FIXTURE 4000K 3000 LUMEN WITH BATTERY BACK-UP
H	3	62 VA	LED	HIGH EFFICIENCY LED WALL MOUNTED LIGHT FIXTURE - MATCH EXISTING
J	12	62 VA	LED	8' SURFACE MOUNT LOW BAY FIXTURE 4000K 9000 LUMEN - BASIS OF DESIGN METALUX LBLED
JE	8	62 VA	LED	8' SURFACE MOUNT LOW BAY FIXTURE 4000K 9000 LUMEN W/ BATTERY BACK-UP
K	6	28 VA	LED	LINEAR CANOPY FIXTURE MOUNTED TO STEEL SUPPORTS 4000K 2000 LUMEN
RDE	1	18 VA	LED	RELOCATED 1'X4' LED LIGHT FIXTURE WITH BATTERY BACK-UP
X1	5	1 VA	LED	EXIT SIGN - MATCH EXISTING

GENERAL LIGHTING NOTES

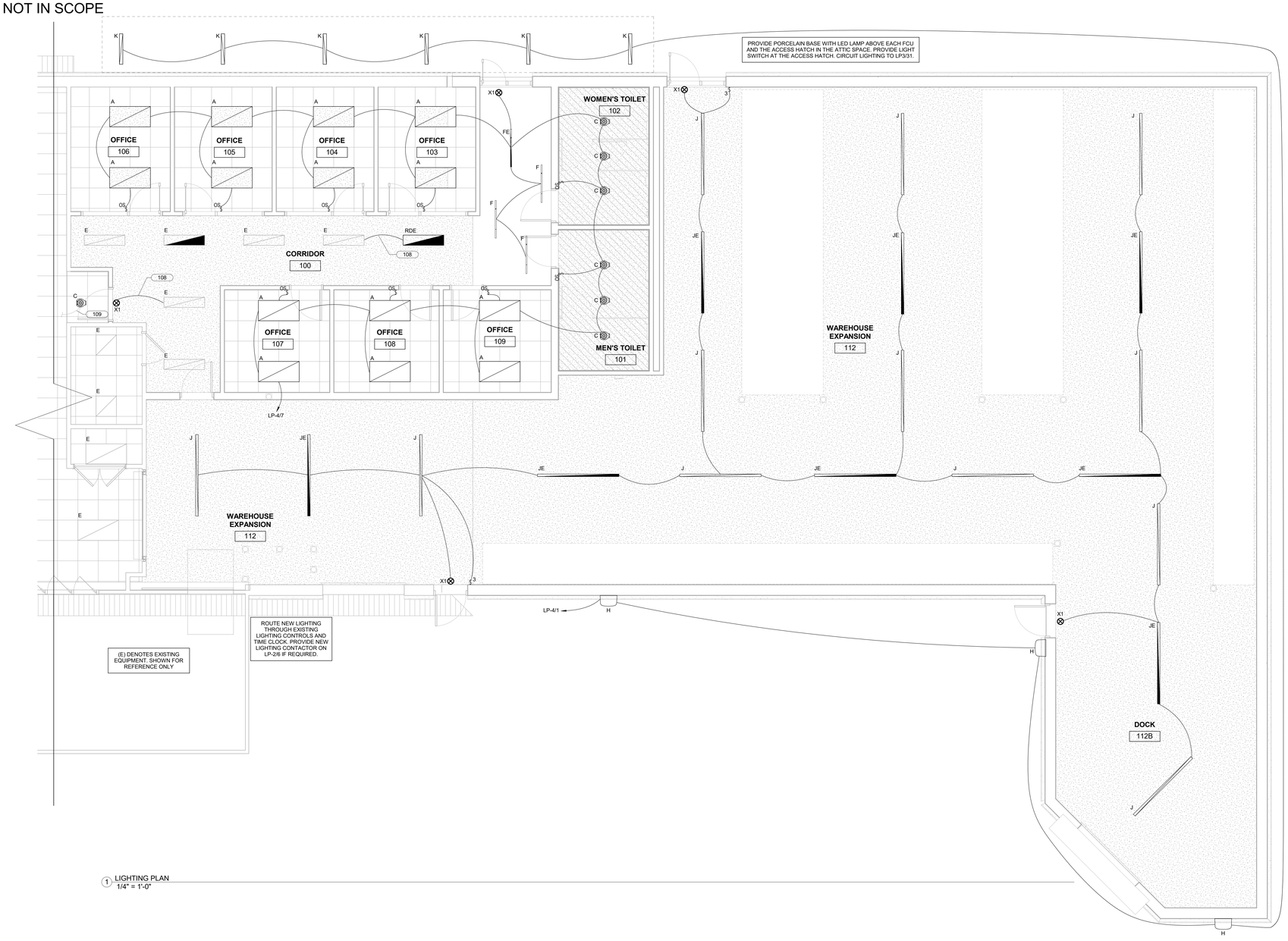
1. EXIT LIGHTS SHALL NOT BE SWITCHED. EMERGENCY LIGHTS SHALL BE WIRED TO OPERATE AS NIGHT LIGHTS, UNLESS OTHERWISE NOTED.
2. PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.
3. PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPBOARD PER ARCHITECTURAL CEILING PLAN.
4. COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.
5. THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.
6. EXIT SIGN MOUNTING
   A. WALL FIXTURE: CENTER 12" ABOVE DOOR OPENING.
   B. CEILING/PENDANT FIXTURE: ON CEILING OR AT HEIGHT SPECIFIED ON DRAWINGS.
7. EMERGENCY LIGHT INSTALLATION FIXTURE MOUNTING
   A. WALL FIXTURE: 12" BELOW FINISHED CEILING OR +10'-0" IN AREAS OF EXPOSED STRUCTURE, UNLESS NOTED OTHERWISE.

   ELECTRICAL CONNECTION
   A. REFER TO MANUFACTURER'S WRITTEN INSTRUCTION. ALLOW BATTERY TO CHARGE CONTINUOUSLY FOR A MINIMUM OF 168 HOURS BEFORE INITIAL TESTING.
   B. AFTER EMERGENCY LIGHT HAS BEEN POWERED DO NOT TURN OF FOR EXTENDED PERIODS OF TIME.
8. COORDINATE WITH ARCHITECTURAL FOR EXACT LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
9. ALL LIGHT FIXTURES RECESSED IN INSULATED CEILINGS TO BE IC RATED.
10. LIGHT FIXTURE SUPPORTS AND RESTRAINTS TO COMPLY WITH SEISMIC ZONE REQUIREMENTS.
11. PROVIDE TWO COPIES OF OPERATION AND MAINTENIENCE MANUALS FOR ALL LIGHT FIXTURES TO OWNER.
12. EMERGENCY LIGHTING SHALL BE WIRED TO CLOSEST LIGHTING CIRCUIT.

KEYNOTES

108	RELOCATED EXISTING LIGHT FIXTURE, RECONNECT TO EXISTING LIGHTING CIRCUIT SERVING THE SPACE AS SHOWN.
109	PROVIDE CONNECTION FOR NEW RECESSED CAN FIXTURE TO EXISTING LIGHTING CIRCUIT SERVING SALES FLOOR FIXTURES.

EXISTING TO REMAIN
PORTION OF BUILDING
NOT IN SCOPE



1 LIGHTING PLAN
1/4" = 1'-0"

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LIGHTING PLAN

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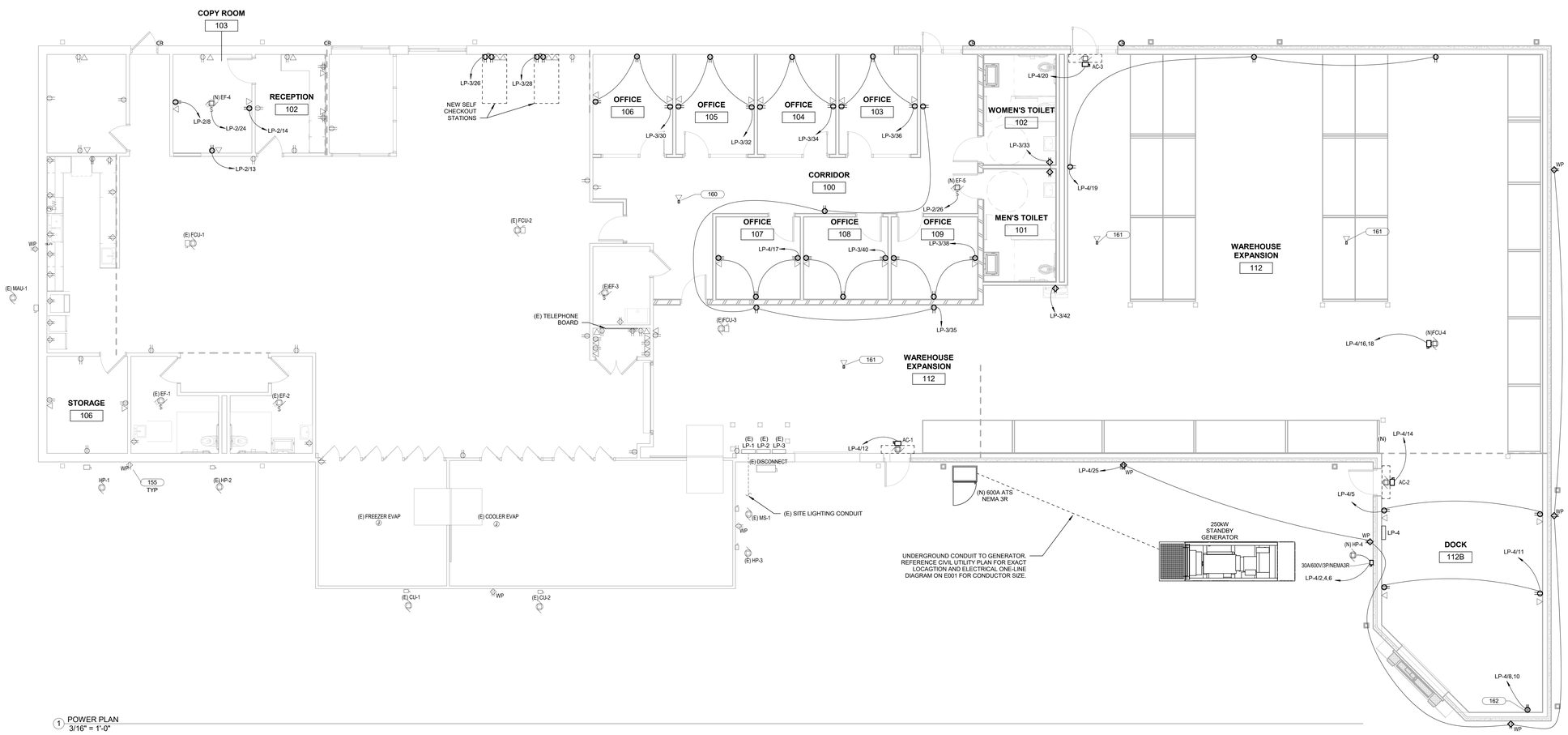
KEYNOTES	
155	ALL EXTERIOR RECEPTACLES MUST BE GFCI IN WEATHER PROOF IN-USE ENCLOSURE.
160	NETWORK DROP FOR WIRELESS ACCES POINT. TERMINATED JACK INSIDE SURFACE MOUNT STYLE BOX.
161	NETWORK DROP FOR WIRELESS ACCES POINT SECURED TO "RED IRON" VIA A J-HOOK. TERMINATED JACK INSIDE SURFACE MOUNT STYLE BOX.
162	CHARGING STATION FOR ELECTRIC FORKLIFT. COORDINATE PLUG TYPE AND EXACT POWER REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE BUCK BOOST TRANSFORMER IF REQUIRED.

(E) DENOTES EXISTING EQUIPMENT. SHOWN FOR REFERENCE ONLY



1 POWER PLAN
3/16" = 1'-0"

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POWER PLAN

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CONSTRUCTION DOCUMENTS	02/12/2024

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