

LOUVER SCHEDULE

THE EQUIPMENT IN THIS SCHEDULE WILL BE PURCHASED AND INSTALLED BY HV-3

MARK

MODEL NO.

INTAKE OR

AIR FLOW

WXHXD

FREE AREA MIN SF

MATERIAL

REMARKS

Oregon, WI 53575 T: 608-225-9273 Email: info@eng370.con

MECHANICAL CONSULTING

Engineering 370, LLC

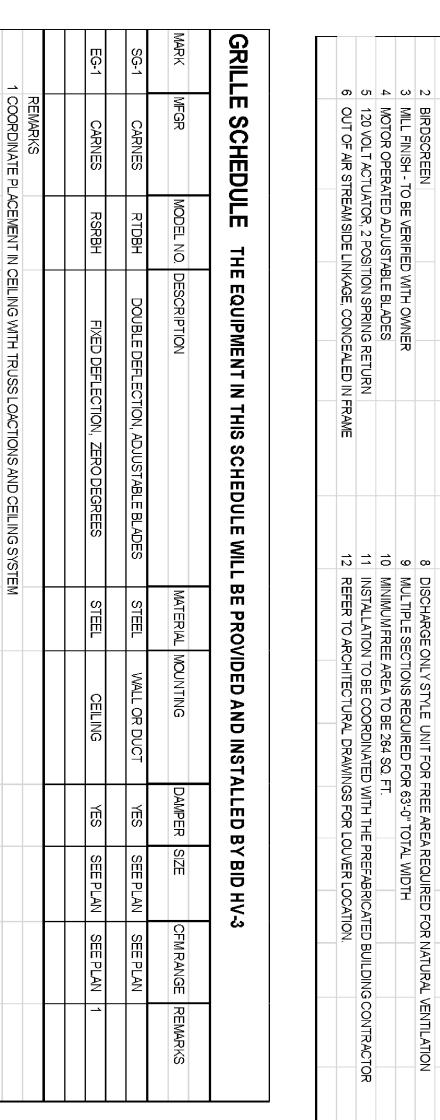
Project No. 13-0808.02

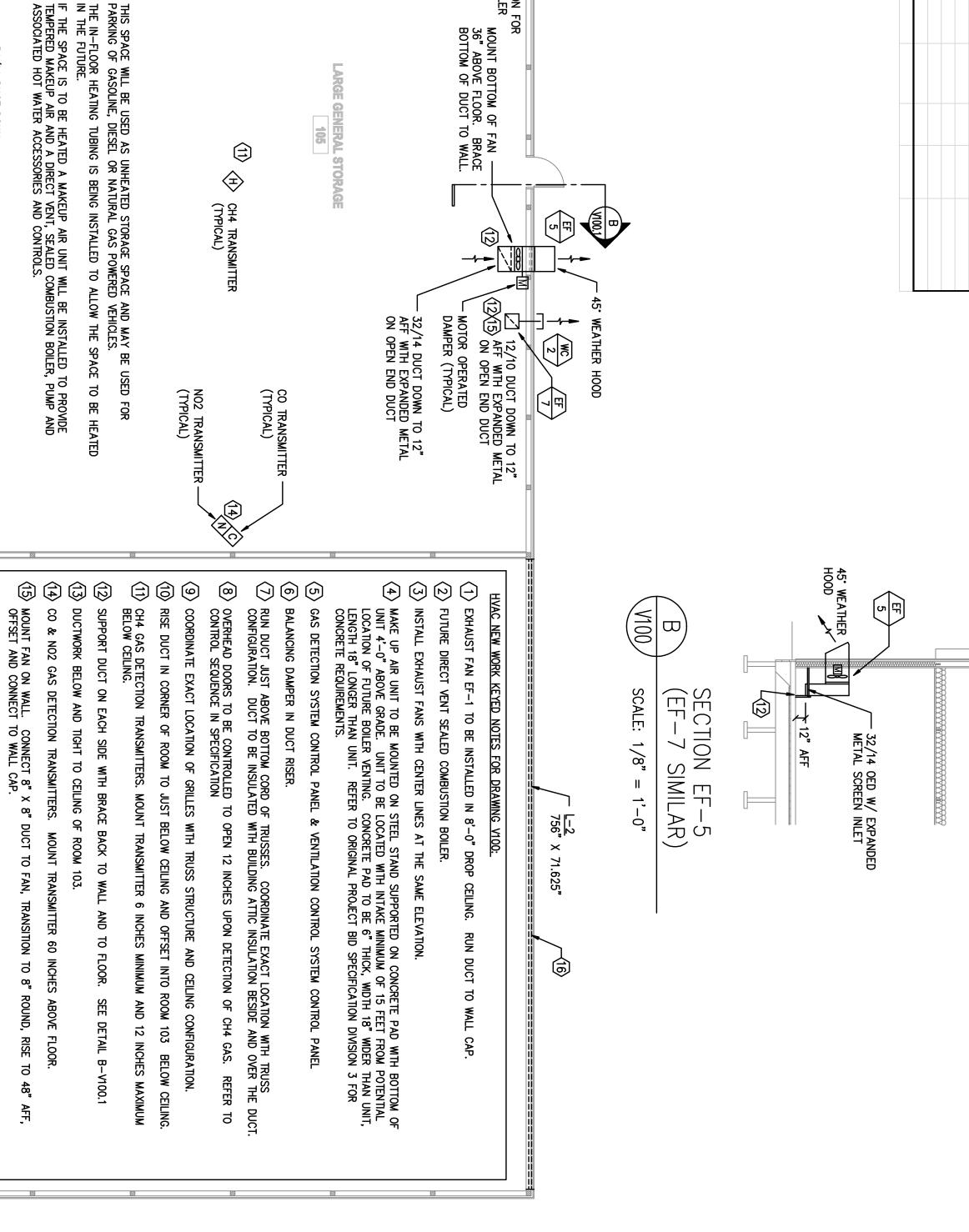
FREE AREA IS FOR SCHEDULED SIZE

VINYL BLADE AND ST

AINLESS STEEL JAMB SEALES

	E-UP AIR UNIT THE EQUIPMENT IN THIS SCHEDULE WILL BE PROVIDED & INSTALLED BYBID HV3 CAPACITY		MARK MANUFACTURER	MUA-1 GREENHECK	NOTES			3 25:1 TURNDOWN			6 REMOTE								MANOTACIONEX			EF-1 GREENHECK								5		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \) N _	ω Ν Δ	Δ ω ω 4	ο Α ω Α το	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	Δ 0 0 L U U 4 D 0 L
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HOT WATER MANIFOLD -----(REFER TO SHEET PME 100)

(O)

24x30 2100 CFM

16/16 @ CEILING

SEED STORA

(3)

20/12

HOT WATER
MANIFOLD
REFER TO SHEET
PME 100

UN HEATED

20/12

4

OA INTAKE

(2)

FUTURE LOCATION FOR HOT WATER BOILER

MOUNT BOTTOM OF FAN — 36" ABOVE FLOOR. BRACE BOTTOM OF DUCT TO WALL.

<u>(5)</u>

(3) FF

 \bigcirc 18/18

17/17

(E)

(Example 2)

22/20-

-22/20 (2

T₩)

SG-1 18x12 700 CFM

LARGE GEN

ERAL STORA

\$

CH4 TRANSMITTER (TYPICAL)

30/25

15/15

TRENCH DRAIN

V100.1

LIBBY ROAD

STORAGE

FACILITY

VENTILATION NEW WORK

54/14 DUCT DOWN TO 16"AFF

SCALE: 1/8" =

1'-0"

ET O | \

- 10/12 OPEN END DUCT AT 16" AFF (700 CFM)

(a) 10/12 (b)

DUCT AT ROOF YPICAL) EACH

FUTURE BOILER AREA

WATER SERVICE AREA

BOILERS, PUMPS, IN-FLOOR MANIFOLDS AND HYDRONIC ACCESSORIES WILL BE PURCHASED AND INSTALLE THE FUTURE.

BID PACKAGES:

HV-1: INFLOOR RADIANT HEATING TUBING - REFER TO DRAWING PME 100.1

HV-2: GAS DETECTION, VENTILATIN CONTROLS & POWER WIRING TO VENTILATION EQUIPMENT HV-3: VENTILATION SYSTEM

SEE SPECIFICATION SECTION 23 05 00 'COMMON WORK RESULTS FOR HVAC' FOR BID PACKAGE DESCRIPT

INSTALLED

Z

NOTES - DRAWING V100.1

PRICING PACKAGE HV-2

- THE SCOPE OF PRICING PACKAGE HV-2 AS INDICATED ON THIS DRAWING IS PROVIDING AND INSTALLATION OF THE GAS DETECTION SYSTEM AND THE VENTILATION CONTROL SYSTEM AS INDICATED ON PLAN V100.1 AND SPECIFIED IN THE PROJECT MANUAL.
- REFER TO SPECIFICATION SECTION 23 05 00, PART 1 GENERAL, SCOPE FOR SPECIFICATION SECTIONS APPLICABLE TO THE WORK OF PRICING PACKAGE HV-2.
- PRICING PACKAGE HV-3 THE ELECTRICAL POWER WIRING REQUIREMENTS INCLUDED IN PRICING PACKAGE HV=2 IS SHOWN ON DRAWING PME100.1
- THE SCOPE OF PRICING PACKAGE HV-3 IS THE PROVIDING AND INSTALLATION OF THE VENTILATION SYSTEM AS INDICATED ON PLAN V100.1.
- 2 REFER TO SPECIFICATION SECTION 23 05 00, PART 1 GENERAL, SCOPE FOR SPECIFICATION SECTIONS APPLICABLE TO THE WORK OF PRICING PACKAGE HV-3.

7/6/15 9/26/14 4/7/14 ISSUED FOR APPROVAL ISSUED FOR PRICING PACKAGE HV-1, HV-2 & HV-3 ISSUED FOR REVIEW Symbol

9		
LAK	LAKE FARM STORAGE FACILITY	Y
L	LAKE FARM COUNTY PARK	
	4401 LIBBY ROAD	
	MADISON, WI	
(PR	(PREVIOUS BID NUMBER 313094)	٣
PRI	PRICING PACKAGES HV-1, HV-2	2
	P 1177 3	

e County Depart County Department of Public Works, Highway and Tranportation Public Works Engineering Division 1919 Alliant Energy Center Way Madison, WI 53713 & HV-3

VENTILATION NEW WORK FLOOR PLAN

(16) LOUVER INSTALLED IN EXTERIOR WALL. SEE BUILDING SECTION ON ARCHITECTURAL DRAWING A201 FOR LOUVER LOCATION. COORDINATE WITH GENERAL CONTRACTOR.

OPEN AIR STORAGE

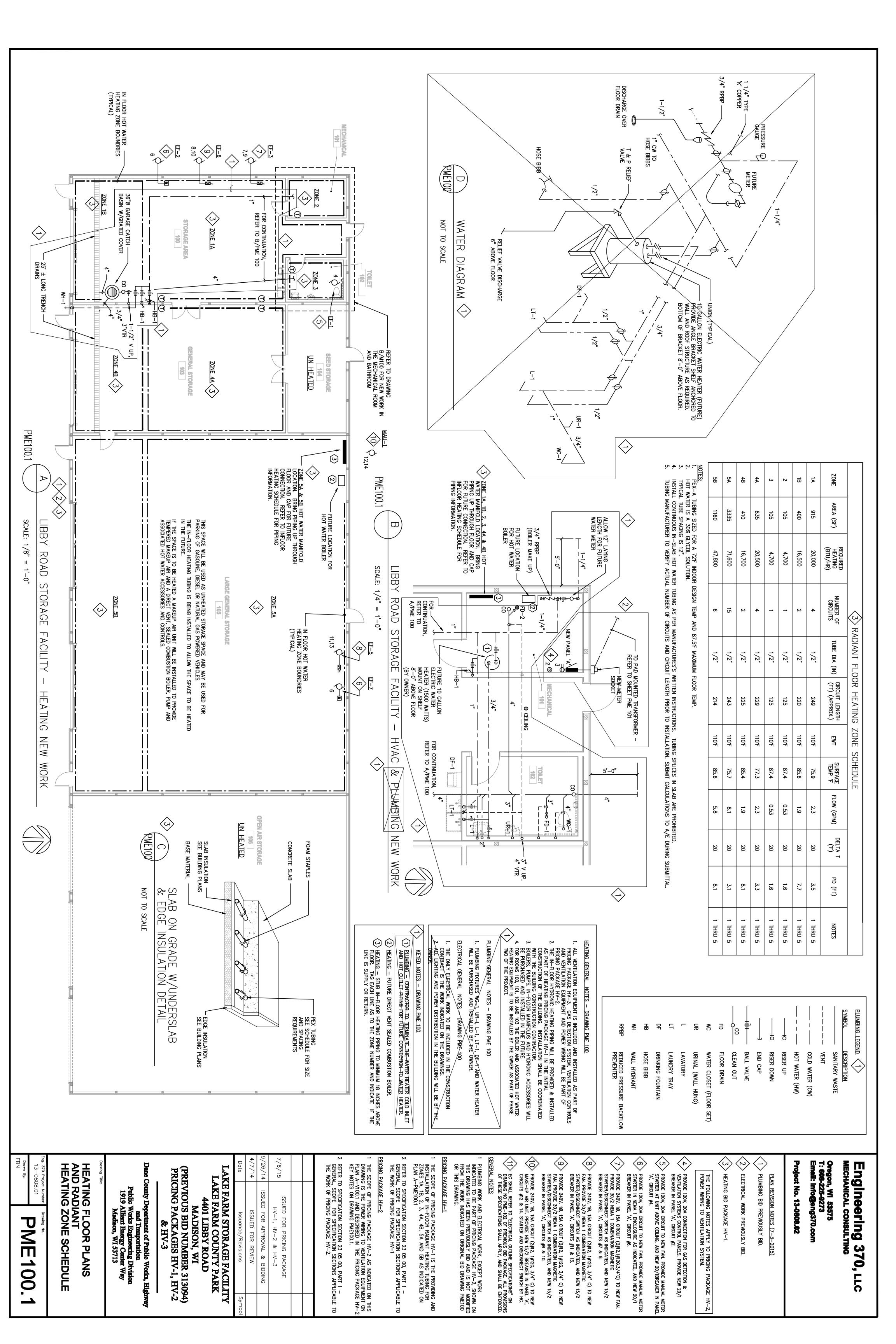
UN HEATED

NO NATURAL GAS POWERED EQUIPMENT SHALL BE PARKED OR STORED IN THIS SPACE.

THIS SPACE SHALL BE POSTED AT EACH DOOR WITH THE ABOVE NOTICE.

Project 1..... -0808.01

V100.1



Architecture Planning

Dorschner|Associates, Inc.
849 E. Washington Ave., Ste. 112
Madison, Wisconsin 53703
Phone: 608.204.0777
Fax: 608.204.0778

LAKE FARM STORAGE FACILITY

RFB NO. 313094

DORSCHNER ASSOCIATES
13020-00

LAKE FARM COUNTY PARK 4401 LIBBY ROAD MADISON, WI

ABBREVIATIONS INDEX OF DRAWINGS ARCHITECTURAL SYMBOLS AND LEGEND

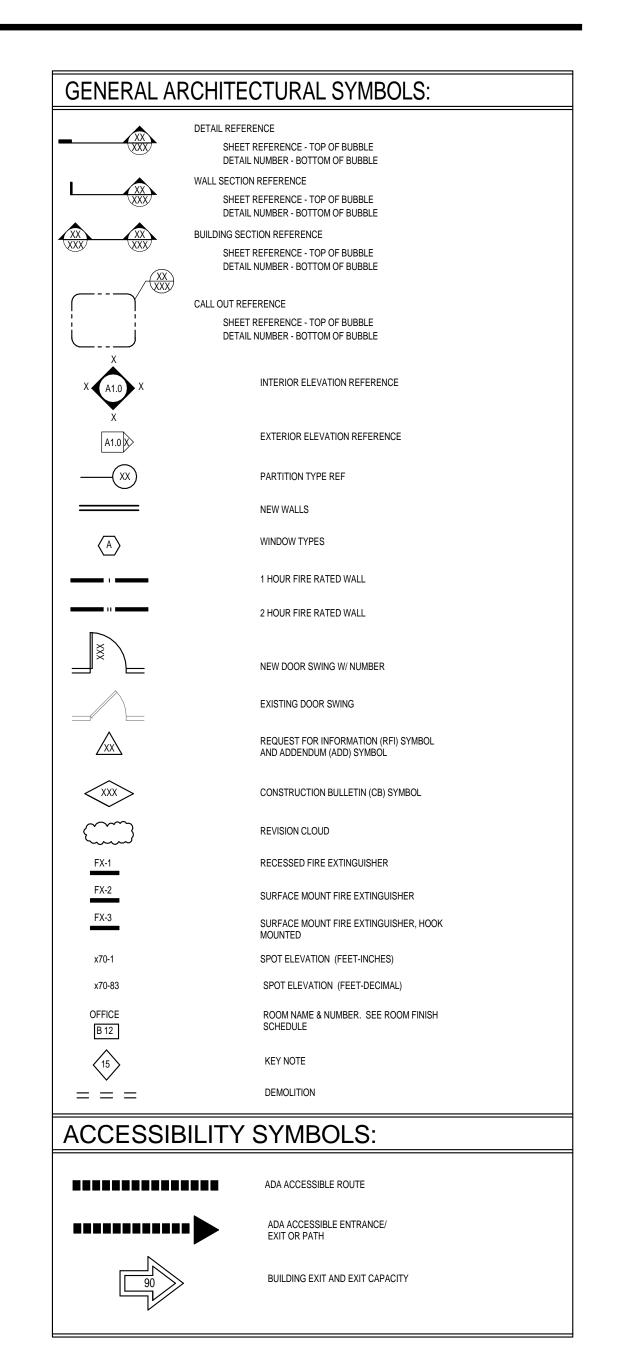
PROJECT ABBREVIATIONS: EAST EACH EXPANSION JOINT UNDERWRITERS LABORATORIE AMERICANS WITH DISABILITIES ACT HCP HM HORIZ HM HT HANDICAPPED HOLLOW METAL PERFORATE(D)
PLATE
PLASTIC LAMINATE
PLYWOOD AIR CONDITIONING UNLESS NOTED OTHERWISE ACOUSTICAL CEILING TILE ELECTRIC HAND DRYER HORIZONTAL ADDENDUM/ ADDITION(AL) WALL MOUNTED URINAL HOLLOW METAL ELETRICAL ELEVATOR ABOVE FINISHED FLOOR HEATING/VENTILATING/AIR CONDITIONING POUNDS PER SQUARE FOOT EMERGENCY POUNDS PER SQUARE INCH VERIFY IN FIELD ELECTRIC PANELBOARD PRE-TREATED ETHYLENE PROPYLENE DIENE MONOMER ACCESS PANEL POLY-VINYL CHLORIDE EQUAL EXISTING EXTERIOR INCLUDE(D), (ING) WEST, WIDTH, WIDE APPROXIMATE INFORMATION WATER CLOSETS INSULATE(D), (ION) **BULLETIN BOARD** ELECTRIC WATER COOLER INTERIOR ` WATER HEATER BOARD BUILDING BLOCKING BEAM BOTTOM OF BEARING BEYOND WALL HYDRANT REFRIGERATOR REINFORCE(D), (ING) FLOOR DRAIN REQUIRED WASTE RECEPTICLE FIXTURE REVERSE ROOM WITH WITHOUT FLOUR FLR FLUORESCENT ROUGH OPENING KNEE OPENING WALL MOUNTED SOAP DISPENSER CORNER GUARD LAVATORY MOUNTED SOAP DISPENSER CLOTHES HOOK MOUNTED ON WALL FACE OF MASONRY SECTION MIRROR CENTER LINE FIRE RETARDANT TREATMENT MAX MECH MAXIMUM FOLDING SHOWER SEAT SHEET SIMILAR CLEAR(ANCE) MECHANICAL FOOTING CONCRETE MASONRY UNIT MINIMUM FIRE EXTINGUISHER AND CABINET - TYPE MISCELLANEOUS SOLID SURFACE CLEAN-OUT COLUMN SANITARY NAPKIN DISPENSER MARKER BOARD SANITARY NAPKIN DISPOSAL SLAB ON GRADE CONCRETE MASONRY OPENING GALVANIZED GRAB BAR CONSTRUCTION SPECIFICATION CONTINUOUS, CONTINUE CORRIDOR COURSE GYPSUM WALL BOARD NOT APPLICABLE CARPET NOT IN CONTRACT HOSE BIBB CERAMIC TILE NON-OPERATIONAL DOOR SOUND TRANSMISSION CLASS HANDICAPPED CENTER NOISE REDUCTION HOLLOW METAL STANDARD CABINET UNIT HEATER NOT TO SCALE HORIZONTAL STEEL SUSPENDED HORIZ CURTAINWALL HOLLOW METAL DOUBLE SYSTEM DIAMETER HVAC HEATING/VENTILATING/AIR CONDITIONING OUTSIDE DIÀMETER OFFICE DANIEL FOR THE PRINCIPLE
OFOI OWNER FURNISHE
OPNG OPENING
OPP OPPOSITE
OPP HD OPPOSITE HAND DIAGONAL OWNER FURNISHED CONTRACTOR INSTALLED TB TACK BOARD DIMENSION DOWN DOOR DETAIL DISH WASHER TOP AND BOTTOM OWNER FURNISHED OWNER INSTALLED TONGUE AND GROOVE TOWEL DISPENSER TELEPHONE DRAWING TEMPORARY/TEMPERED THK TYP TZO DRAWER THICKNESS TERRAZZO

CODE INFORMATION

PROPOSED USE: S-1 - STORAGE, UNHEATED FUTURE USE: S-1 - STORAGE, HEATED AREA ENCLOSED: 7650 SF AREA OF OPEN AIR STORAGE: 3700 SF OCCUPANTS: <15

Drawing List								
Sheet Number	Sheet Name							
GENERAL								
G100	COVER SHEET							
CIVIL								
C100	SITE AND GRADING PLAN							
C101	FIRE ACCESS							
ARCHITECTURAL								
A101	EXTERIOR ELEVATIONS							
A201	FIRST FLOOR PLANS AND BUILDING SECTIONS							
A500	WALL SECTIONS, ENLARGED PLANS, AND DOOR SCHEDULE							
STRUCTURAL								
S001	STRUCTURAL NOTES AND SCHEDULES							
S201	FOUNDATION PLAN							
MECHANICAL								
PME100	MEP FLOOR PLANS, PLUMBING ISOMETRICS AND RADIANT HEATING ZONE SCHEDULE							
PME101	ELECTRICAL SITE PLANS, DETAILS AND ONE LINE DIAGRAM AND SCHEDULE							
PME102	MECHANICAL, ELECTRICAL, AND PLUMBING SPECIFICATIONS							
V100	VENTILATION NEW WORK FLOOR PLAN							

TOILET AC	CESSORY SCHEDULE:	
ABBREVIATION	STD. MOUNTING HEIGHT	
AP	SEE PLAN AND ELEVATION	
CHW	(1) 5'-6" A.F.F., (1)4'-0" A.F.F. SEE ELEVATIONS FOR OTHER LOCATIONS	
EWC	(1) 2'-11" A.F.F. TO SPOUT OUTLET, (1) 3'-5" A.F.F. TO SPOUT OUTLET	
ED	TOP @ 41.25" MALE, 38.25" FEMALE	
FD	SEE PLUMBING SPECIFICATION	
FS	TOP @ 17-19" A.F.F.	
GB8	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER	
GB18	HORIZ: CENTER @ 3'-4" A.F.F.; VERT: 3'-4" @ B.O. BAR HORIZ: CENTER @ 3'-2" A.F.F., VERT: 3'-7" @ B.O. BAR IN SHOWER	
GB36	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER	
GB48	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER	
GB60	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER	
LAV	TYPICAL: TOP @ 2'-10" A.F.F. PRESCHOOL: TOP @ 1'-8" A.F.F.	
M	BOTTOM @ 3'-4" MAX A.F.F.	
SD	TOP @ 48" A.F.F.	
SDL	LAVATORY MOUNTED	
SND	48" A.F.F. MAX TO OPERATING COMPONENTS (SEE PLAN)	
SNL	TOP @ 15" MIN, 48" MAX A.F.F.	
TD	48" A.F.F. MAX. TO OPERATING COMPONENTS (SEE PLAN)	
TPH	OUTLET 15" MIN, 48" MAX A.F.F., 7-9" IN FRONT OF WC TO CL (SEE PLAN)	
WC	SEE PLUMBING	
WHU	17" AFF MAX AT BOWL	
WR	TOP @41-45" A.F.F. MAX., BASED ON SPECIFIED PRODUCT (SEE PLAN)	

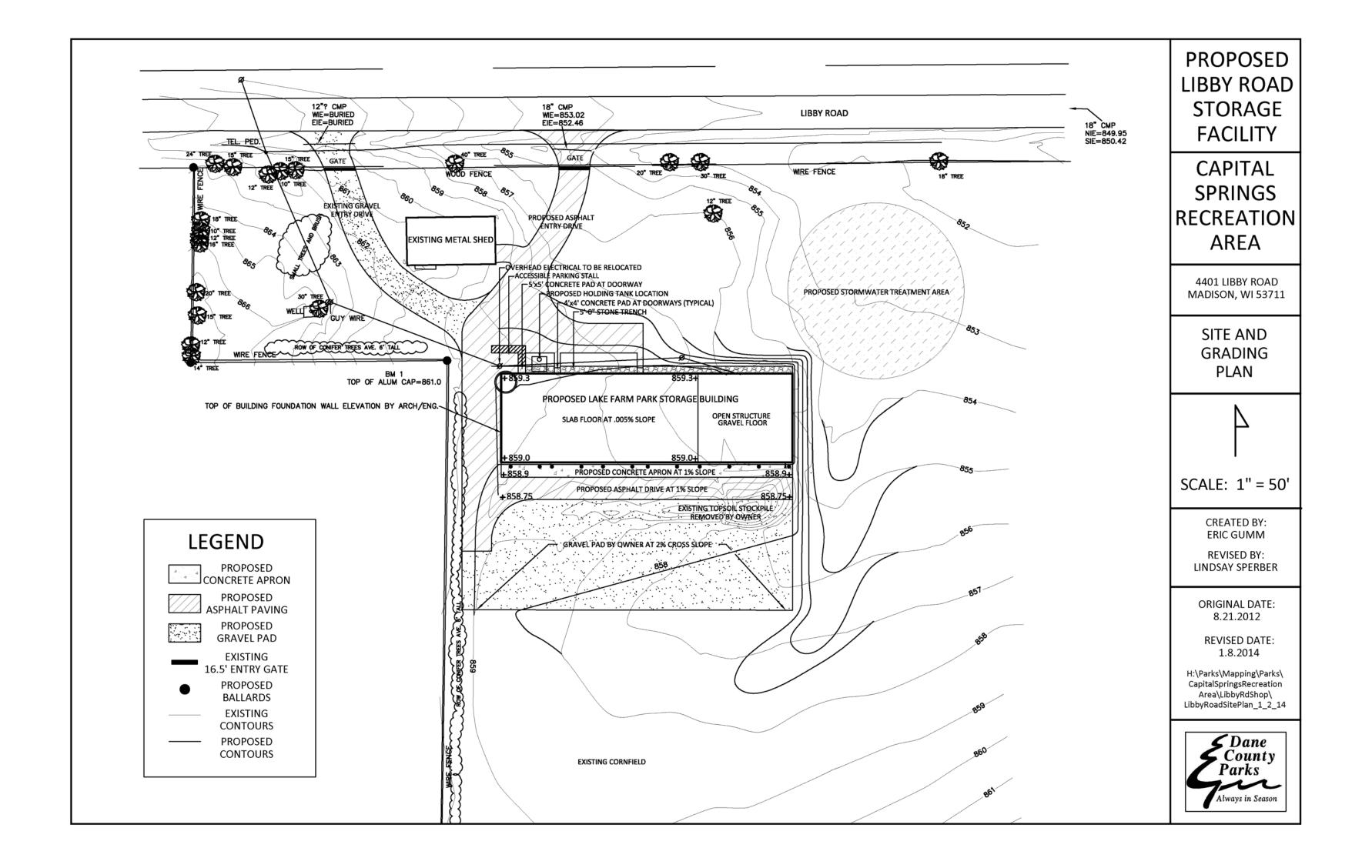


Architecture Planning

ASSOCIATES

Dorschner|Associates, Inc.
849 E. Washington Ave., Ste. 112
Madison, Wisconsin 53703
Phone: 608.204.0777
Fax: 608.204.0778

ISSUE



PROJECTLAKE FARM STORAGE FACILITY

E INC I NIKIN OTOTOKOE I NOIEI

LAKE FARM COUNTY PARK 4401 LIBBY ROAD MADISON, WI

RFB NO. 313094

DRAWINGSITE AND GRADING PLAN

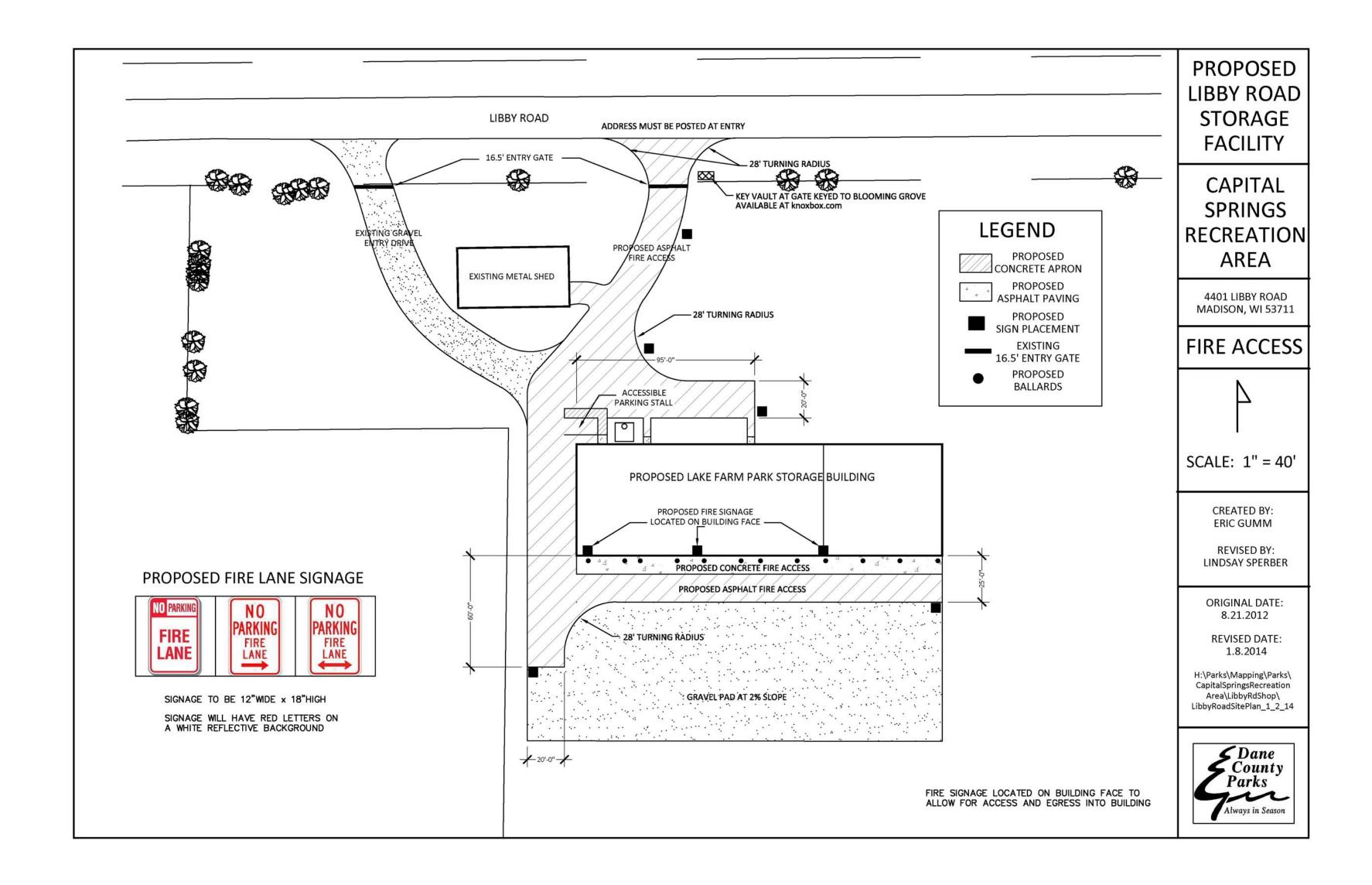
DATE 09.26.14



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Madison, Wisconsin 53703
Phone: 608.204.0777
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ISSUE



PROJECT
LAKE FARM STORAGE FACILITY

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LAKE FARM COUNTY PARK 4401 LIBBY ROAD MADISON, WI

RFB NO. 313094

DRAWINGFIRE ACCESS

DATE 09.26.14

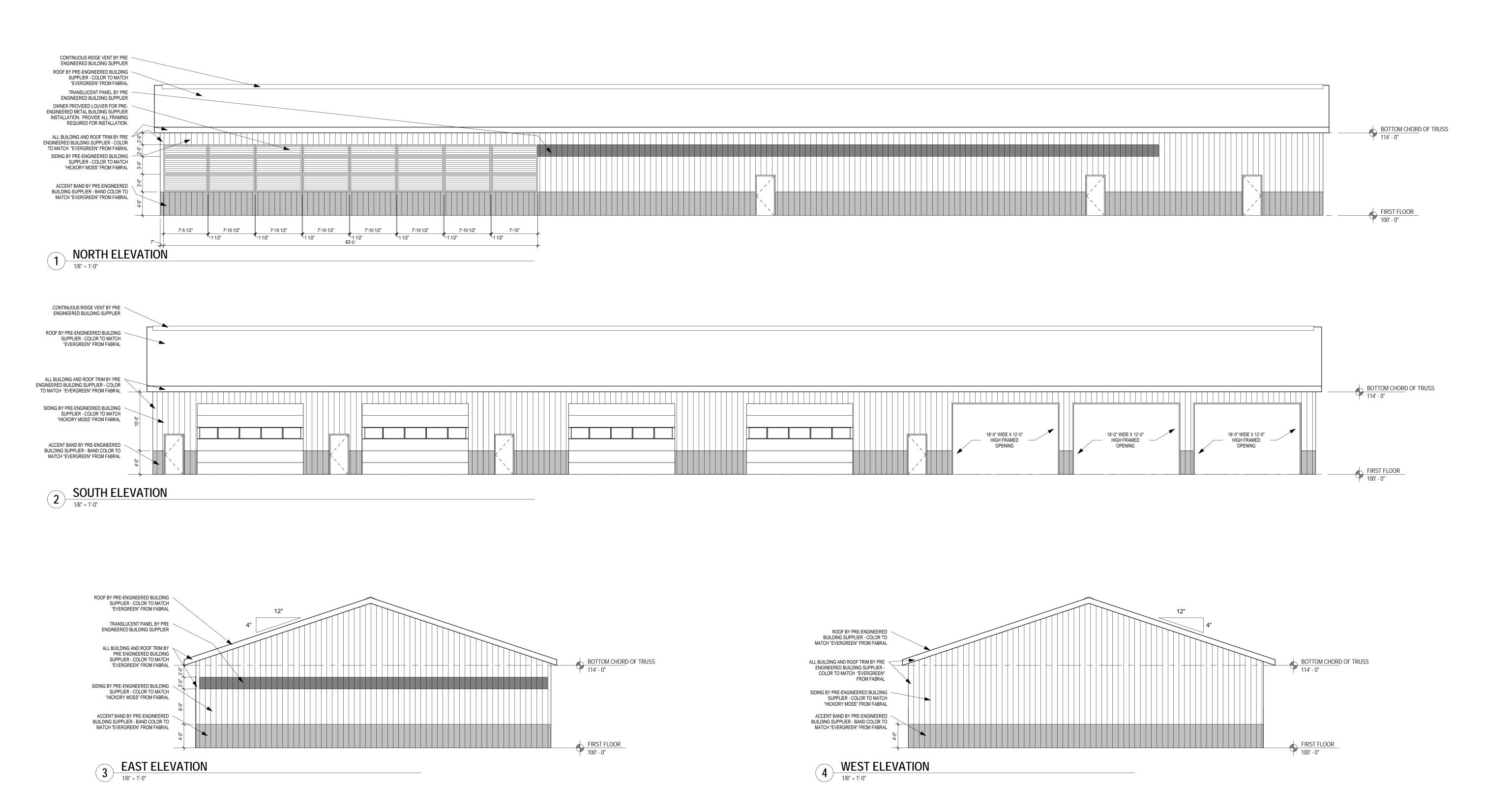
PROJECT
LAKE FARM STORAGE FACILITY

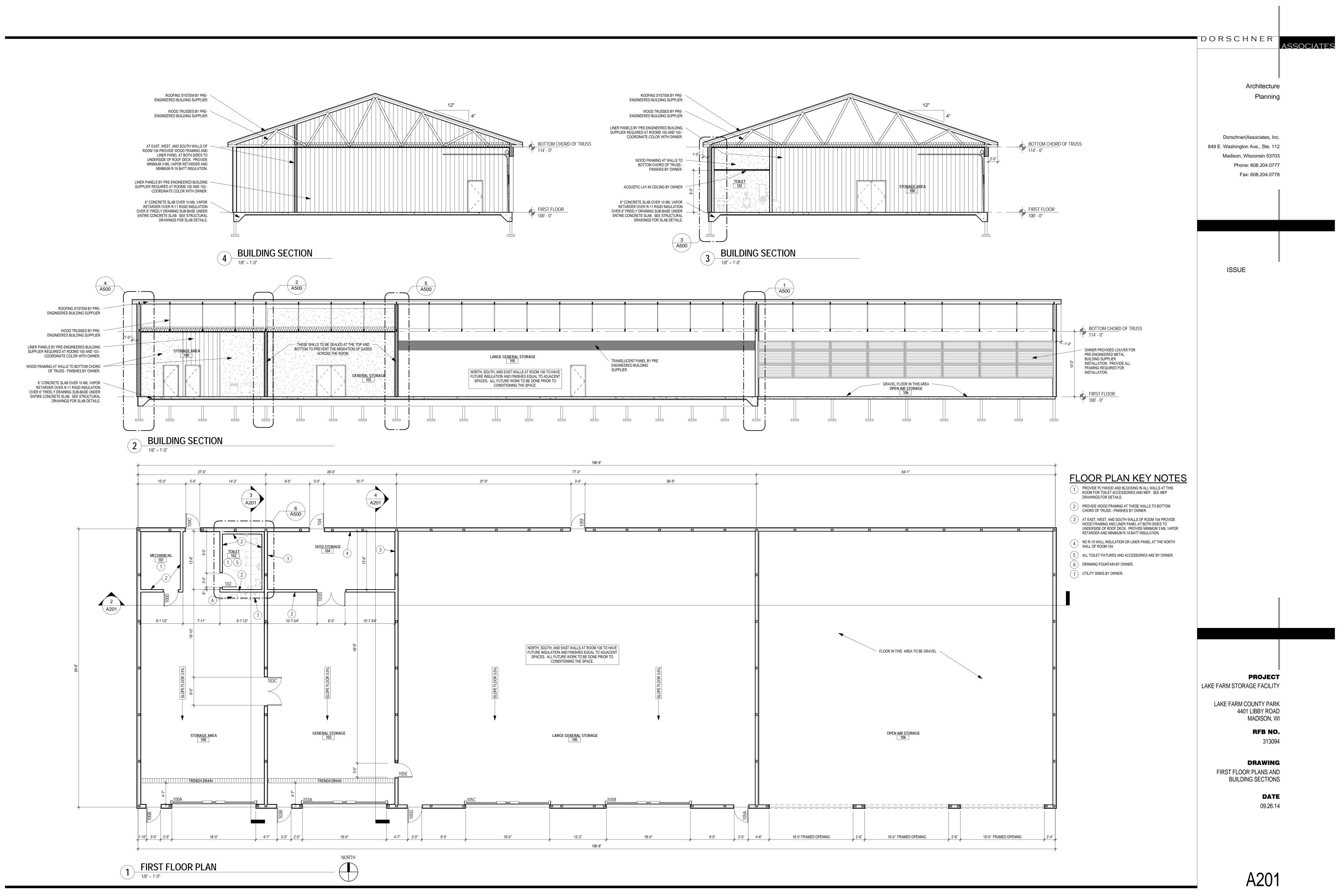
LAKE FARM COUNTY PARK 4401 LIBBY ROAD MADISON, WI

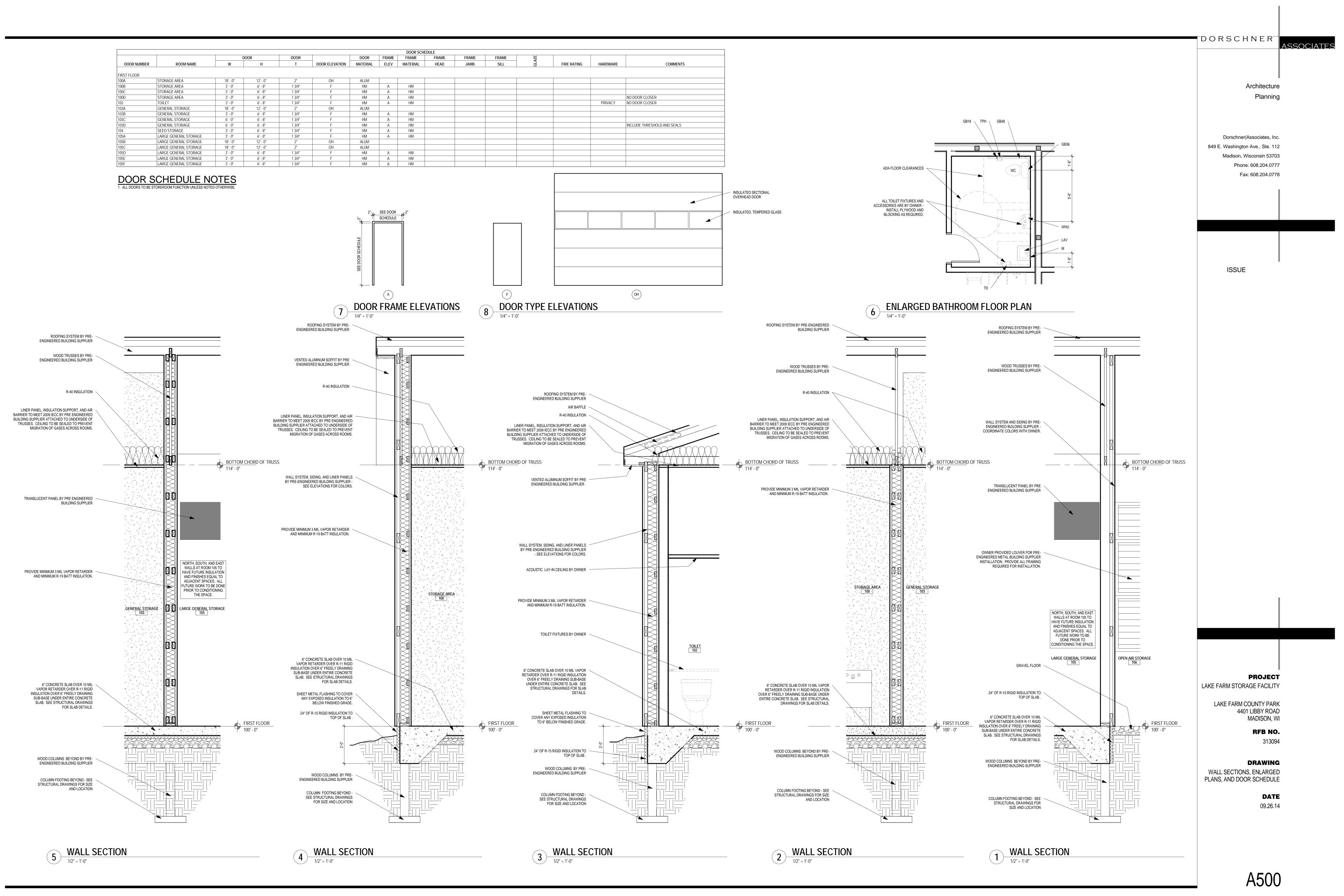
RFB NO. 313094

DRAWINGEXTERIOR ELEVATIONS

DATE 09.26.14







DESIGN DATA <u>DESIGN CODE:</u> 2011 WISCONSIN COMMERCIAL BUILDING CODE WIND LOAD INFORMATION: 90 MPH BASIC WIND SPEED BUILDING OCCUPANCY CATEGORY WIND LOAD IMPORTANCE FACTOR (Iw) 1.00 WIND EXPOSURE (PARTIALLY ENCLOSED) INTERNAL PRESSURE COEFFICIENTS ± .18 COMPONENTS AND CLADDING (GROSS WIND PRESSURES): (FOR ZONE DEFINITIONS & DIAGRAMS SEE DESIGN GUIDE ASCE/SEI 7 SECTION 6) WIDTH OF PRESSURE COEFFICIENT ZONE (a) TRIBUTARY WIND LOAD AREAS: ROOF (GABLE/HIP/MONOSLOPE): **NEGATIVE ZONE 1** -22 psf -24 psf -23 psf **NEGATIVE ZONE 2** -36 psf -29 psf -25 psf **NEGATIVE ZONE 3** -52 psf -34 psf -25 psf POSITIVE PRESSURE ALL ZONES 12 psf 13 psf 12 psf WALLS: -22 psf ZONE 4 -24 psf -22 psf -28.1 psf -25 psf -23 psf ZONE 5 POSITIVE ZONE 4/5 23 psf 20 psf 20 psf SEISMIC LOAD INFORMATION: SEISMIC USE GROUP / OCCUPANCY CATEGORY 1.00 SEISMIC LOAD IMPORTANCE FACTOR (Ie) SEISMIC SITE CLASS MAPPED SPECTRAL RESPONSE ACCELERATION (Ss) 10.40 4.40 MAPPED SPECTRAL RESPONSE ACCELERATION (S1) SPECTRAL RESPONSE COEFFICIENT (Sds) 0.1222 SPECTRAL RESPONSE COEFFICIENT (Sd1) 0.080 SEISMIC DESIGN CATEGORY RESPONSE MODIFICATION FACTOR 1.5 SEISMIC RESPONSE COEFFICIENT (Cs) ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE SNOW LOAD INFORMATION 30 psf GROUND SNOW LOAD (Pg) SNOW EXPOSURE FACTOR (Ce) 1.00 SNOW LOAD IMPORTANCE FACTOR (Is) 1.00

MATERIAL DESIGN PROPERTIES

1.20 AT OVERHANGS

Qa = 2000 psf (PRESUMED)

k = 125 pci (PRESUMED)

25 psf

0.40

35 pcf

55 pcf

125psf

200 pcf

THERMAL FACTOR (Ct)

LATERAL EARTH PRESSURE:

SOIL LOAD INFORMATION:

ACTIVE

AT-REST

PASSIVE

FROST DEPTH

DESIGN/BALANCED SNOW LOAD (Ps)

COEFFICIENT OF SLIDING FRICTION (µ)

ALLOWABLE NET SOIL BEARING PRESSURE

MODULUS OF SUB-GRADE REACTION

CIP CONCRETE STRENGTHS: FOOTINGS SLAB ON GRADE EXTERIOR SLAB ON GRADE	fc = 3000 psi fc = 4000 psi fc = 4500 psi
REINFORCING STEEL STRENGTHS: BARS (ASTM A 615, grade 60) WWF (ASTM A 185)	Fy = 60,000 psi Fy = 65,000 psi

WOOD MATERIAL PROPERTIES PER PRE-ENGINEERED BUILDING SUPPLIER

EARTHWORK NOTES

1.	ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000psf, GENERAL CONTRACTOR TO FIELD
	VERIFY W/TEST PITS OR OTHER MEANS WITH A QUALIFIED GEOTECHNICAL ENGINEER AT TIME OF
	EVOAVATION.

EXCAVATION. 2. ALL TOPSOIL, DEBRIS, SILTS, AND ORGANIC MATERIAL SHALL BE STRIPPED AND REMOVED FROM LIMITS OF EXCAVATIONS AND EXISTING SUBGRADE SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY PRIOR TO PLACEMENT OF FILL MATERIAL

GENERAL FOUNDATION NOTES

PROTECT IN-PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATION UNTIL
THOTEOTHAL EAGET CONDATIONS AND GEADS ON GRADE TROWN TROOT I ENE TRATION ON THE

	PROJECT COMPLETION
2.	REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN
	LOCATIONS & ELEVATIONS

NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION. 4. VERIFY SIZES OF ALL STOOPS WITH ARCHITECT PRIOR TO CONSTRUCTION.

CAST-IN-PLACE CONCRETE NOTES

- 1. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST PROVISIONS OF ACI
- CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON SITE OBSERVATION OF REBAR.

WHEN THE AVERAGE TEMPERATURE FROM MIDNIGHT TO MIDNIGHT IS EXPECTED TO DROP BELOW

ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL (ACI SP-66), LATEST EDITION.

40 DEGREES FAHRENHEIT FOR THREE SUCCESSIVE DAYS, COLD WEATHER CONCRETING

- REQUIREMENTS MUST BE FOLLOWED. WHEN AMBIENT AIR OR CONCRETE TEMPERATURES EXCEED 90 DEGREES FAHRENHEIT, STEEL REINFORCING AND/OR FORMING SURFACES ARE ABOVE 120 DEGREES, OR WHEN WIND VELOCITY HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASED RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE
- FOLLOWED. 6. ALL HOOKS IN STEEL REINFORCING SHALL BE ACI STANDARD HOOKS, UNLESS NOTED OTHERWISE
- IN CONSTRUCTION DOCUMENTS. ALL CONCRETE SURFACES SHALL BE FORMED, UNLESS OTHERWISE NOTED.
- CONTROL JOINTS SHALL BE PLACED IN SLAB ON GRADE AND SLAB ON METAL DECK CONSTRUCTION WITHIN 24 HOURS OF INITIAL POUR. WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORT OF STEEL REINFORCING SHALL BE PROVIDED
- BY THE CONTRACTOR TO ENSURE REINFORCING IS PLACED IN THE PROPER POSITION DURING CONCRETE PLACEMENT.
- 10. STEEL REINFORCING SPLICES OF ADJACENT BARS SHALL BE STAGGERED SUCH THAT SPLICES ARE 4 FEET APART, MINIMUM.
- 11. PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONALLY AT ALL OPENING CORNERS UNLESS OTHERWISE SPECIFIED. EXTEND 2'-6" PAST OPENING TYPICALLY.
- 12. WELDED WIRE REINFORCING SHALL BE IN FLAT SHEETS ONLY, AND LAPPED A MINIMUM OF 6
- INCHES. 13. WELDING OF STEEL REINFORCING IS NOT PERMITTED.
- 14. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED AT THREE DIAMETERS ON CENTER, OR 4 INCHES MINIMUM.
- 15. ALUMINUM CONDUIT OR PIPING SHALL NOT BE CAST IN CONCRETE.
- 16. PROVIDE A 3/4" CHAMFER ON EXPOSED CORNERS OF CONCRETE UNO. TOP EDGES OF WALLS SHALL
- BE TOOLED UNO. 17. FINISH & COVER CONCRETE SLABS w/ FILM FORMING CURING COMPOUND OR VAPOR RETARDER UNO OR SPECIFIED OTHERWISE.

HOT WEATHER CONCRETING NOTES

- 1. CONCRETE MIXES TO BE PLACED DURING DRY AND WINDY CONDITIONS SHALL BE MODIFIED BY THE ADDITION OF RETARDING ADMIXTURES OR SLOWER CURING CEMENT SUBSTITUTES TO
- MINIMIZE THE EFFECTS OF ACCELERATED CURING. WATER SHALL NOT BE ADDED TO CONCRETE MIXES ON SITE FOR WORKABILITY. MID OR HIGH RANGE WATER REDUCERS SHALL BE APPROVED BY ENGINEER BEFORE ADDING TO CONCRETE
- MIX FOR INCREASED WORKABILITY. INGREDIENTS USED IN CONCRETE MIXES SHALL BE COOLED TO MAINTAIN A CONCRETE TEMPERATURE BELOW 90 DEGREES FAHRENHEIT AT TIME OF PLACEMENT.
- CHILLED WATER AND CHOPPED ICE MAY BE USED IN CONCRETE MIXTURES TO CONTROL CONCRETE TEMPERATURES. AMOUNT OF CHOPPED ICE SHALL NOT EXCEED THE EQUIVALENT AMOUNT OF MIXING WATER REQUIRED FOR THE DESIGN MIX.
- RETARDING ADMIXTURES SHALL NOT BE USED IN CONCRETE MIXES WITHOUT THE APPROVAL OF THE ENGINEER.

COLD WEATHER CONCRETING NOTES

- 1. SNOW, FROST, AND ICE SHALL BE REMOVED FROM ALL SURFACES, INCLUDING REINFORCING,
- AGAINST WHICH THE CONCRETE IS TO BE PLACED DO NOT PLACE CONCRETE ON FROZEN SUBGRADE.
- THE MINIMUM PLACEMENT AND PROTECTION TEMPERATURE OF CONCRETE SHALL BE AS FOLLOWS: MINIMUM TEMP OF CONCRETE AS PLACED AND MAINTAINED DURING PROTECTION PERIOD

	DURING PROTECTION PERIOD
LEAST DIMENSION OF SECT	<u>(DEGREES FAHRENHEIT)</u>
LESS THAN 12"	55
12" TO LESS THAN 36	50
36" TO 72"	45
GREATER THAN 72"	40
TEMPERATURES OF CONCE	RETE SHALL BE MEASURED AT THE CONCRETE SURFACE.
CONCDETE TEMPEDATURE	S CHALL BE MEACHDED AND DECODDED FOR THE FIRST 3 DAVE LID

- CONCRETE TEMPERATURES SHALL BE MEASURED AND RECORDED FOR THE FIRST 3 DAYS UPON PLACEMENT OF CONCRETE, AT THE BEGINNING, MIDDLE, AND END OF EACH WORK DAY AT 4 HOUR INTERVALS. OVERNIGHT TEMPERATURE MEASUREMENTS ARE NOT REQUIRED.
- LISTED IN TABLE ABOVE BY MORE THAN 20 DEGREES. CONCRETE SHALL BE CURED AND PROTECTED AGAINST DAMAGE FROM FREEZING FOR A MINIMUM

6. HEATED AIR TEMPERATURES SHALL NOT EXCEED THE REQUIRED CONCRETE TEMPERATURES

- DURING PERIODS NOT DEFINED AS COLD WEATHER, BUT WHEN FREEZING TEMPERATURES MAY OCCUR, PROTECT CONCRETE SURFACES FROM FREEZING FOR THE FIRST 24 HOURS AFTER PLACEMENT.
- IF TEMPERATURE REQUIREMENTS DURING PROTECTION PERIOD ARE NOT MET, BUT CONCRETE WAS PREVENTED FROM FREEZING, CONTACT ARCHITECT/ENGINEER FOR EXTENT OF ADDITIONAL PROTECTION TIME REQUIRED.

CLASS 'B' TENSION LAP SPLICE LENGTHS (INCHES)

BAR SIZE	fc=	3000	fc=	4000
CLASS	ВОТ	TOP	ВОТ	TOP
#3	22	28	19	24
#4	29	37	25	33
#5	36	47	31	41
#6	43	56	37	49
#7	63	81	54	71
#8	72	93	62	81
#9	81	105	70	91
#10	91	118	79	102
#11	101	131	87	113

NOTES (d_b = BAR DIAMETER, C-C = CENTER TO CENTER):

SCHEDULE BASED ON CLEAR COVER >1 dh AND C-C > 2dh TOP BARS OF BEAMS AND JOIST AND HORIZONTAL WALL REINFORCING THIS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND IS NOT INTENDED TO COVER ALL SITUATIONS. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL REQUIRED

LAP LENGTHS CAST-IN-PLACE CONCRETE TOLERANCES

1. CONCRETE COVER MEASURED PERPENDICULAR FROM THE SURFACE IN DIRECTION OF TOLERANCES MEMBERS 12" OR LESS MEMBERS OVER 12"

2. STEEL REINFORCEMENT SPACING SHALL BE WITHIN THE FOLLOWING TOLERANCES: 1/4" SPACING DISTANCE, NOT TO EXCEED 1"

PLACEMENT OF EMBEDDED ITEMS SHALL BE WITHIN THE FOLLOWING TOLERANCES VERTICAL ALIGNMENT LATERAL ALIGNMENT

LEVEL ALIGNMENT PLACEMENT OF FOOTINGS SHALL BE WITHIN THE FOLLOWING TOLERANCES: LATERAL ALIGNMENT LEVEL ALIGNMENT +½" TO -2"

(LEVEL ALIGNMENT SUPPORTING MASONRY) 5. CROSS-SECTIONAL DIMENSION OF FOOTINGS SHALL BE WITHIN THE FOLLOWING TOLERANCES FORMED FOOTINGS +2" TO -½" EARTHCAST FOOTINGS:

+3" TO -½" 2' OR LESS GREATER THAN 2' BUT LESS THAN 6' +6" TO -½" **GREATER THAN 6'** +12" TO -½" **FOOTING THICKNESS**

TOP OF FOOTING SLOPE 7. SEE DRILLED PIER NOTES FOR ADDITIONAL INFORMATION AT DRILLED PIER FOUNDATIONS.

MILD STEEL PROTECTION

FOOTINGS - BOTTOM & SIDES FOOTING - TOP	3" 2"
PERIMETER WALLS - #5 & SMALLER PERIMETER WALLS - #6 & LARGER	1½" 2"
INTERIOR WALLS	3/4"
BEAMS, PIERS, & COLUMNS SLABS - BOTTOM & SIDES	1½" 1"
SLABS - TOP	3/4"

ROOF TRUSS DESIGN NOTES

1.		ROOF TRUSSES AS INDICATED IN THE DESIGN DATA. PROVIDE A TIE DOWN CLIP EVERY POINT OF BEARING.
DEI RO	FLECTION LIMITS: OF	
	LIVE LOAD	L/360
	TOTAL LOAD	L/240
LOA	ADS: SNOW LOAD -	PER DESIGN DATA INCLUDING APPLICABLE UNBALANCED LOADING

DEAD LOAD

PER DESIGN DATA INCLUDING APPLICABLE UNBALANCED LOADING CONDITION TYPICAL PRE-ENGINEERED BUILDING DEAD LOADS (FRAMING, SHEATHING, ROOFING, INSULATION, AND LIGHTS, HVAC, PLUMBING) PLUS 10psf

COLLATERAL DEAD LOAD APPLIED TO BOTTOM CHORD OF TRUSS

STRUCTURAL ABBREVIATIONS ABBRV. WORD OR PHRASE _ LIVE LOAD _ LONG LEG HORIZONTAL LLH _ ANCHOR BOLT LONG LEG VERTICAL _ LAMINATED STRAND LUMBER ALTERNATE AMERICAN PLYWOOD ASSOC. LAMINATED VENEER LUMBER APA LVL . _ARCHITECT(URAL) LONG WAY BOTTOM CHORD _ MANUFACTURER BLDG . $\mathsf{MAX}\ _$ MAXIMUM BUILDING BLKG_ _BLOCKING MECH. _ MECHANICAL MINIMUM BEAM BOTTOM _ MISCELLANEOUS NOT IN CONTRACT BRG_- _ BEARING _ CENTERLINE NTS_{-} NOT TO SCALE _ COLUMN BASE ON CENTER _ CAST-IN-PLACE _ OUTSIDE FACE CENTERLINE OPPOSITE _ PARALLEL CLR_- CLEAR $_$ CONTROL OR CONSTRUCTION JOINT P/C $_$ _ PRECAST CONCRETE CMU_ _ CONCRETE MASONRY UNIT PCF_ _ POUNDS PER CUBIC FOOT COL_ COLUMN _ PERPENDICULAR CONC _ CONCRETE _ STEEL PLATE CONT _ CONTINUOUS _ PLYWOOD _ DECK BEARING ANGLE POUNDS PER SQUARE INCH DBA . _ DEFLECTION POUNDS PER SQUARE FOOT DEFL. _ DEMOLITION _ PARALLEL STRAND LUMBER DEMO _ DOUGLAS FIR LARCH _ POST TENSIONED CONCRETE PRESSURE TREATED DIA (Ø) _ _ DIAMETER _ DIMENSION REINF _ REINFORCEMENT REQD_ _ DEAD LOAD _ REQUIRED __ DETAIL RTU_- ROOF TOP UNIT SCHD _ SCHEDULE _ DOWEL DWG. _ DRAWING SHEET __EACH SIMILAR _EACH FACE SHEET METAL SCREWS SOG_ EXPANSION JOINT _ SLAB ON GRADE SPEC _ ELEVATION _ SPECIFICATION _EMBEDMENT SPRUCE-PINE-FIR EMBED. _EDGE OF SLAB EOSL_ SQ_ _ SQUARE EOS_ _ EDGE OF STEEL

_ EQUAL

EACH WAY

_EXISTING

_EXPANSION

_ FLOOR DRAIN

_ FOUNDATION

FINISH

_ FLOOR

FRAMING

_FOOTING

_GALVANIZED

GYPSUM

_HORIZONTAL

_INSIDE FACE _INFORMATION

JOIST

__ ANGLE

GRADE BEAM

GIRDER TRUSS

GAGE

FINISH FLOOR

_EXTERIOR

EXIST

FRMG

 FTG_-

GALV.

 GYP_-

HORIZ

_ STAINLESS STEEL SS $_{-}$ STL_- _ STEEL _ STRUCTURAL STR _ _ SHORT WAY _ SYMMETRICAL SYM_{-} SOUTHERN YELLOW PINE _ TOP AND BOTTOM _ TOP CHORD _ TONGUE AND GROOVE TOP OF FOOTING ELEVATION _ TOP OF LEDGE ELEVATION _ TOP OF CONCRETE ELEVATION TOSL _ TOP OF SLAB ELEVATION TOS_ TOP OF STEEL ELEVATION TOP OF PIER ELEVATION T/PC_ _ TOP OF PILE CAP TRANS_ TRANSVERSE GENERAL CONTRACTOR TUBE STEEL TOP OF WALL ELEVATION _ TYPICAL HORIZONTAL INSIDE FACE UNLESS NOTED OTHERWISE VERT. _ HORIZONTAL OUTSIDE FACE _ VERTICAL HOLLOW STRUCTURAL SECTION _ VERTICAL INSIDE FACE _ VERTICAL OUTSIDE FACE HEATING, VENTILATING & AIR COND. w/ _ WIDE FLANGE _ HEADED WELD STUD _ WITHOUT _ WORKPOINT _ WEIGHT _ KIPS PER SQUARE INCH WELDED WIRE FABRIC _ SEISMIC LOAD RESISTING SYSTEM

_ SPECIAL MOMENT FRAME

_ SPECIAL CONCENTRIC BRACED

SMF .

DORSCHNER ASSOCIATES Architecture Planning DorschnerlAssociates, Inc. 849 E. Washington Ave., Ste. 112 Madison, Wisconsin 53703 Phone: 608.204.0777 Fax: 608.204.0778 **ISSUE**



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> RFB NO. 313094

DRAWING

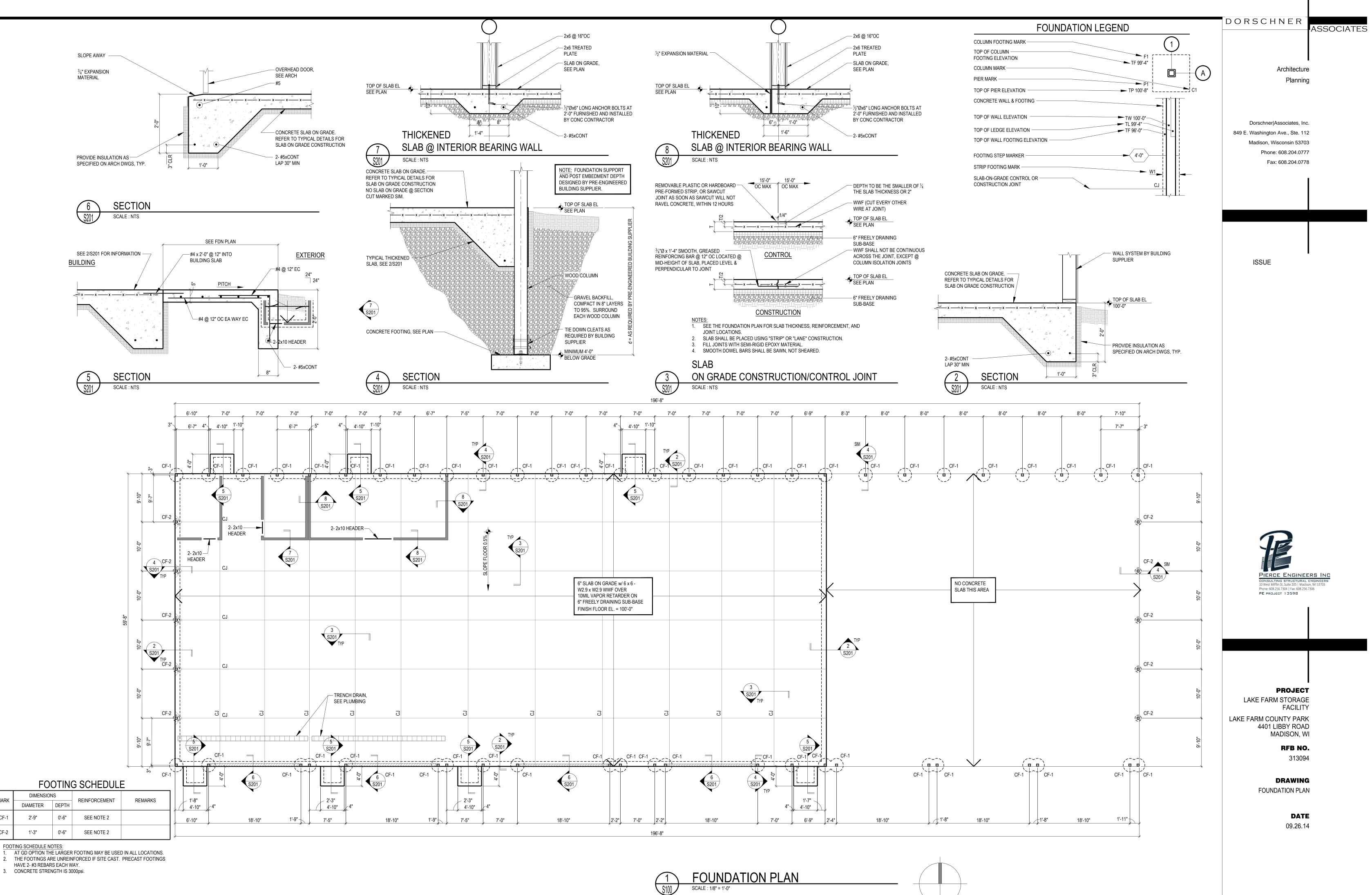
STRUCTURAL NOTES & SCHEDULES

> DATE 09.26.14

^{3.} FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NO THICKER THAN 8". EACH LIFT SHALL MEET COMPACTION REQUIREMENTS PRIOR TO PLACEMENT AND COMPACTION OF ADDITIONAL

^{4.} FILL MATERIAL SHALL BE PLACED AND COMPACTED AT +1% TO -4% OPTIMUM MOISTURE CONTENT TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY, UNLESS RECOMMENDED OTHERWISE BY A

QUALIFIED SOILS ENGINEER. 5. UNSATISFACTORY SOILS LOCATED BELOW FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.



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