Wash Bay Building

2387 Keystone Avenue
Ida Grove, Iowa 51445

Project: BG–2D21(000)–80–47

IOWA DOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY, AMES, IOWA 50010

FOR CONSTRUCTION QUESTIONS CALL:
DANIEL APATIGA (515) 239–1627

FOR CONTRACT DOCUMENT QUESTIONS CALL:
MARY ZIMMERMAN (515) 239–1298

INDEX OF DRAWINGS:

SHEET NO.		SHEET NAME
01	SP-1	SITE PLAN
02	S-1	FOOTING PLAN
03	S-2	SLAB PLAN & FOOTING DETAILS
04	S-3	ROOF FRAMING PLAN
05	A-1	FLOOR PLAN
06	A-2	REFLECTED CEILING PLAN
07	A-3	ROOF PLAN
08	A-4	EXTERIOR ELEVATIONS
09	A-5	BUILDING SECTIONS
10	A-6	DETAILS
11	P-1	PIPING PLAN
12	M-1	MECHANICAL PLAN
13	E-1	ELECTRICAL PLAN
14	E-2	LIGHTING PLAN

OFFICE OF
SUPPORT SERVICES

FACILITIES ENGINEER	DATE	TELEPHONE: (515) 239–1443
FIELD FACILITIES MANAGER	DATE	TELEPHONE: (515) 239–1627
FACILITIES DIRECTOR	DATE	TELEPHONE: (515) 239–1327

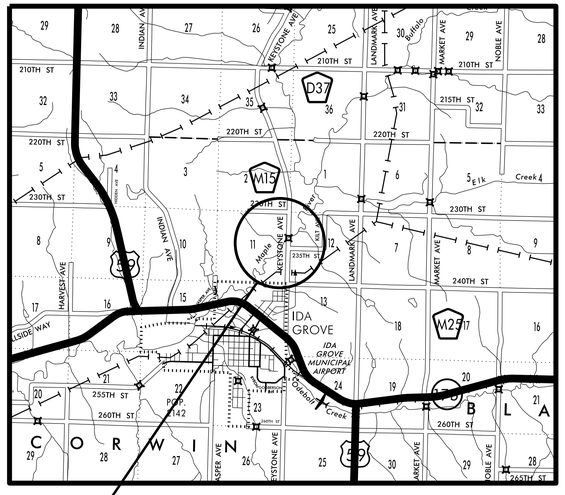
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the state of Iowa.

Printed or typed name

Signature Date

Registration expires Date issued

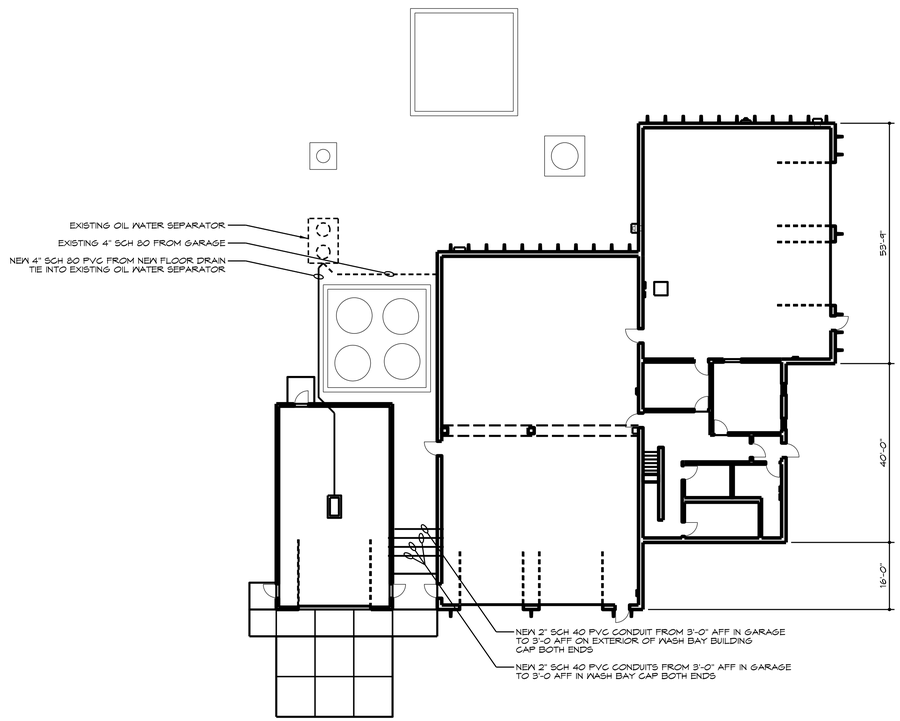
Pages or sheets covered by this seal: _____



PROJECT LOCATION
SCALE: 1" = 1 MILE

NORTH

DGN_LOC



NORTH

SITE PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

SITE PLAN

IOWADOT
SMARTER | SIMPLER | CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515)239-1299

DATE: JANUARY 2014

DRAWN BY: DESIGN TEAM

APPROVED: S GUSTAFSON

REVISIONS:

SHEET 01 OF 14

SP-1

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GENERAL NOTES:

DESIGN LOADS

THE 2009 INTERNATIONAL BUILDING CODE IS TO BE USED AS A MINIMUM FOR ALL MATERIALS, PROCEDURES AND DESIGN. IN THE EVENT THAT A DISCREPANCY IS FOUND BETWEEN THE CODE AND THE DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL BE USED.

LIVE LOADS:

ROOF LOAD:	Pg = 35 psf Pf = 30
WIND LOAD:	90 mph, EXPOSURE "C" Ce = SEE CHAPTER 161 = 1.0
FLOOR LOAD:	100 psf
SEISMIC CATEGORY:	"A"
OCCUPANCY CATEGORY:	"II"

DESIGN LOADS TAKEN FROM CHAPTER 16 OF THE 2006 IBC (INTERNATIONAL BUILDING CODE) MECHANICAL AND ELECTRICAL EQUIPMENT DEAD LOADS TAKEN FROM SPECIFIC EQUIPMENT AND ACTUAL WEIGHTS

WIND LOAD DESIGNED FOR 90 mph WITH EQUIVALENT LOADS OF 14psf
WIND ROOF LOAD DESIGNED FOR 90mph W/EQUIVALENT LOAD OF 12 psf UPLIFT

SPECIAL INSPECTIONS AND TESTING SCHEDULE:

PROJECT ENGINEER REQUIRES PRE CONSTRUCTION MEETING WITH CONTRACTOR, SPECIAL INSPECTOR, AND CITY INSPECTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

AS PRESCRIBED IN SECTION 1704 OF THE IBC 2009 SHALL BE PROVIDED FOR THE FOLLOWING ITEMS (IF APPLICABLE):

1. SPECIAL GRADING, EXCAVATION, AND FILLING
   - A. SUBGRADE TESTS
   - B. COMPACTION TESTS
   - C. VERIFY BEARING STRATA
2. CONCRETE
   - A. 3 CYLINDERS PER 50 CY
   - B. TESTS CYLINDERS AT 7 DAYS, 28 DAYS, AND HOLD ONE
3. BOLTS INSTALLED IN CONCRETE
   - A. ALL BOLTS
4. REINFORCING STEEL
   - A. PLACEMENT INSPECTION

FOUNDATIONS:

ALL FOOTINGS SHALL BE CENTERED UNDER FOUNDATION WALLS OR COLUMNS UNLESS OTHERWISE SHOWN ON THE DRAWINGS. FOOTINGS MUST BEAR ON FILL COMPACTED TO 95% PROCTOR DENSITY. SOIL DESIGN LOAD = 1,500psf FOR CONTINUOUS FOOTINGS AND 1,500psf FOR ISOLATED SPREAD FOOTINGS

COORDINATION:

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF ANY ITEMS. SEE SPECIFICATIONS FOR SHOP DRAWINGS SUBMITTED REQUIREMENTS.

DRAWINGS SHALL BE COORDINATED WITH MECHANICAL ELECTRICAL DRAWING FOR ADDITIONAL OPTIONS, ELECTRICAL COMPONENTS, FLOOR DEPRESSIONS, ETC. NOT SHOWN ON DRAWINGS COORDINATE LOCATION, SIZE, AND REINFORCING OF ALL OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION

REPORT ANY DISCREPANCIES AND OR INTERFERENCE PROBLEMS TO OWNER AND PROJECT ENGINEER

CONCRETE AND REINFORCEMENT:

MINIMUM 28 DAY CONCRETE STRENGTH:
F'c = 4,000psi UNLESS NOTED OTHERWISE
F'c = 4,000psi FOR ISOLATED AND CONTINUOUS SPREAD FOOTINGS

ALL CONCRETE TO BE DONE ACCORDING TO ACI-301, 305, 306, 315, 318, AND 347, REINFORCING NOT SHOWN SHALL BE IN ACCORDANCE WITH ACI STANDARDS

PROVIDE BENT CORNER BARS TO LAP WALL REINFORCING BY 30 BAR DIAMETERS IN EACH DIRECTION

PROVIDE #5 DIAGONAL BARS X 48" IN CORNERS OF EACH FRAMED OPENING

PROVIDE KEYS IN CONCRETE WALLS AT ALL VERTICAL AND HORIZONTAL JOINTS. KEYS SHALL BE 2" WIDE X 2" DEEP UNLESS NOTED OTHERWISE

WALLS THAT ARE BACK FILLED ON ONE SIDE SHALL BE BRACED UNTIL ALL SUPPORTING SLABS AND BACK FILLING OPERATIONS ARE COMPLETE

VERTICAL WALL REINFORCING SHALL BE CONTINUOUS BARS FROM THE FOOTING TO 2" BELOW TOP OF WALL. REINFORCING SHALL BE LAPPED 24 BAR DIAMETERS OR A MIN OF 12", STAGGER LAPS, LAP SPLICES AND CONCRETE COVER OF REINFORCEMENT SHALL CONFORM TO ACI 318-89 USING CLASS B TENSION SPLICES UNLESS OTHERWISE NOTED

DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A-496

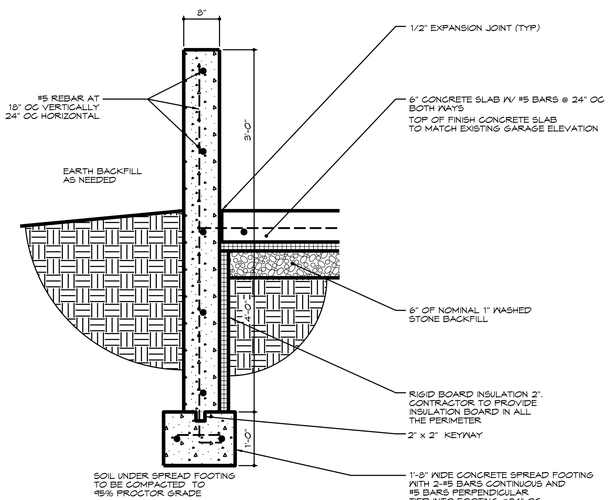
ALL REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A -185 MATS ONLY

SLABS ON GRADE:

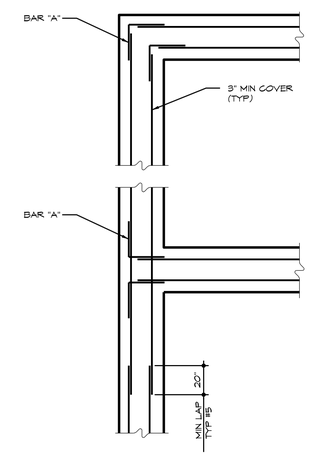
SLABS-ON-GRADE SHALL BE 6" THICK, EXCEPT WHERE NOTED OTHERWISE. PROVIDE #5 REBAR, 24" OC, BOTH DIRECTIONS IN CONCRETE AND AN 8 MIL VAPOR BARRIER. 2" OF RIGID INSULATION UNDER SLAB FOR 4'-0" AROUND PERIMETER OF BUILDING FOR INTERIOR SLABS. SEE SLAB PLAN S-2 FOR LOCATION. OVER EXCAVATE AND RE-COMPACT USING STRUCTURAL FILL. PROVIDE 95% PROCTOR DENSITY ON COMPACTED STRUCTURAL FILL. PROVIDE NO MORE THAN 15% FLY ASH FOR ALL FLOOR SLABS

SAW CUT CONTROL JOINTS IN SLABS ON GRADE SHALL BE 1/8" WIDE AND 1/4 OF THE SLAB THICKNESS. CUTTING OPERATIONS SHALL BE FROM 4 TO 12 HOURS AFTER PLACING CONCRETE. MAXIMUM SPACING OF JOINTS SHALL BE 30 TIMES THE SLAB THICKNESS OR AS SHOWN ON DRAWINGS

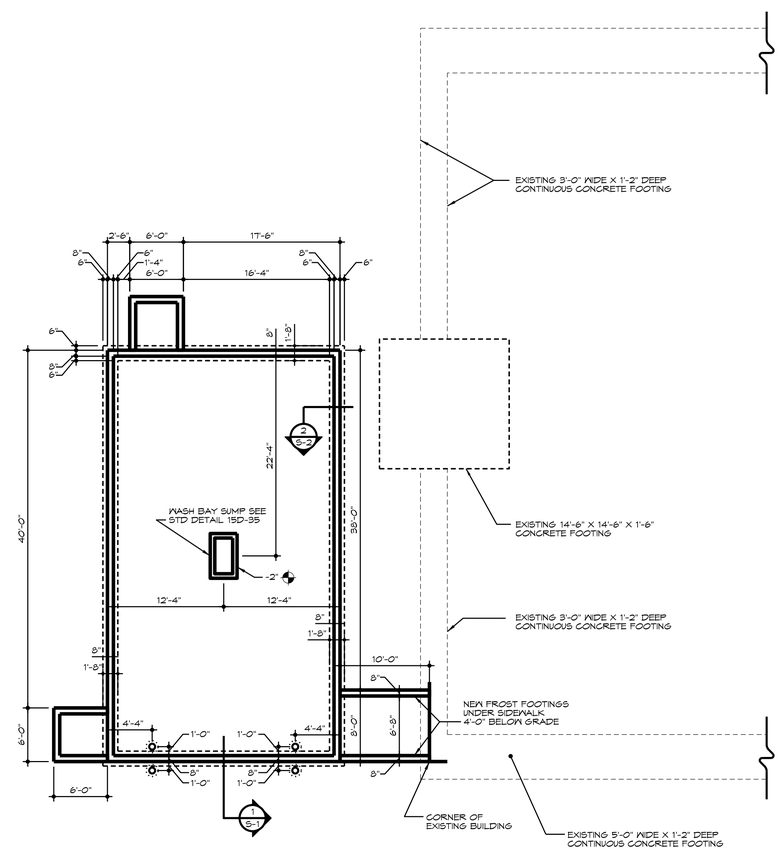


2 / S-1 FOOTING SECTION
SCALE: 1 1/2"=1'-0"

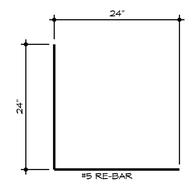
NOTE: BARS SHOWN ARE #5 UNLESS OTHERWISE NOTED



FOOTING DETAIL
SCALE: N.T.S.



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



BAR 'A' DETAIL
SCALE: N.T.S.

DISTRICT: 03
COUNTY: IDA
PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING
FOOTING PLAN & DETAILS

IOWADOT
SMARTER | SIMPLER | CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515)239-1299

DATE: JANUARY 2014
DRAWN BY: DESIGN TEAM
APPROVED: S GUSTAFSON
REVISIONS:

02 SHEET OF 14

S-1

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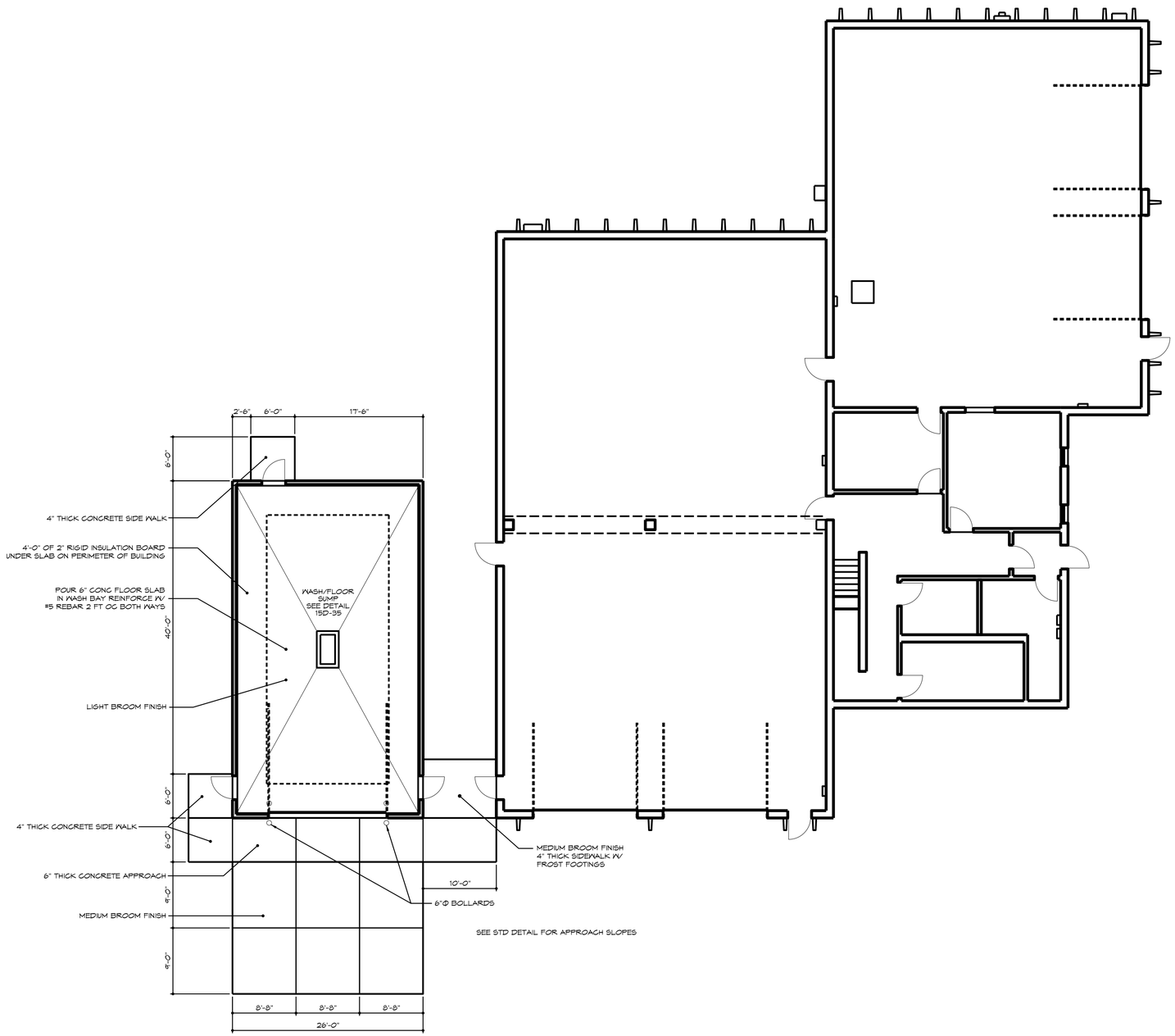
NOTES:

1. ALL JOINTS SHALL BE SAWN FULL LENGTH AS SPECIFIED
2. FOR DETAILS ON APPROACH SLABS SEE STD DET 2H-115
3. ALL APPROACH SLABS & STOOPS TO RECEIVE MEDIUM BROOM FINISH
4. ALL CONTROL JOINTS TO BE SEALED



NORTH

SLAB PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

SLAB PLAN & FOOTING DETAILS

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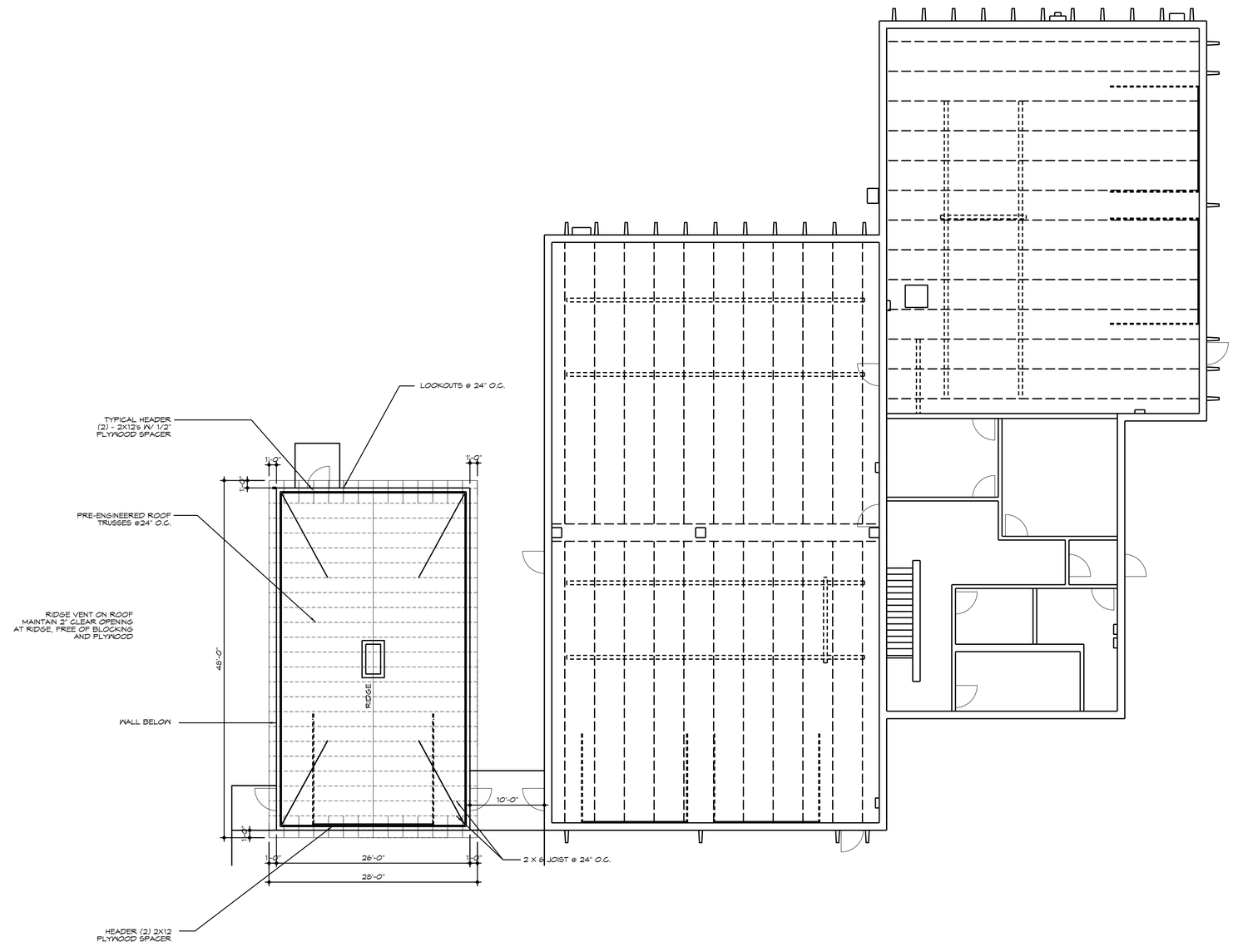

ROOF FRAMING PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

STRUCTURAL ROOF PLAN

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DATE: JANUARY 2014

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S-3

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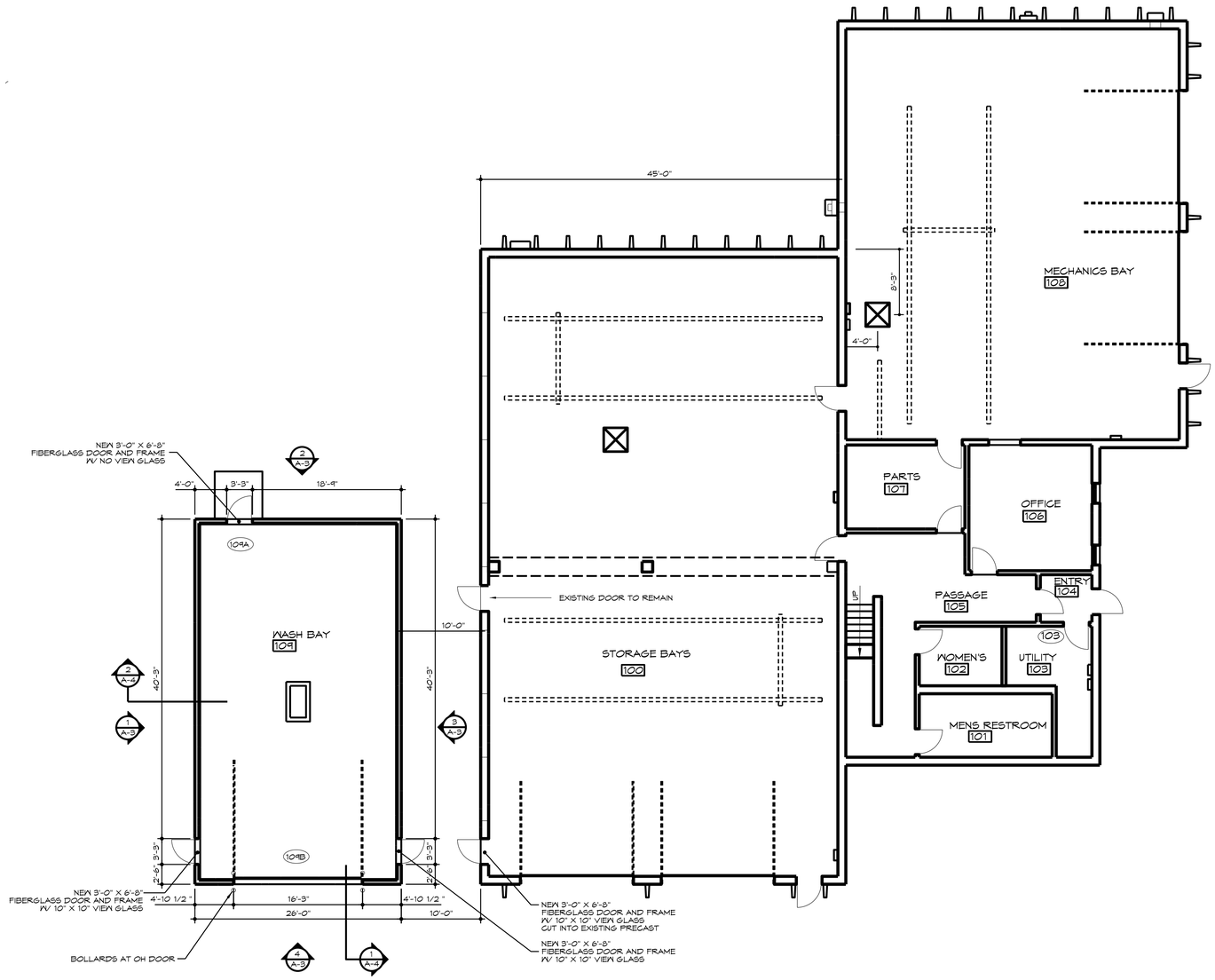

NORTH

FLOOR PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

FLOOR PLAN

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05 SHEET OF 14

A-1

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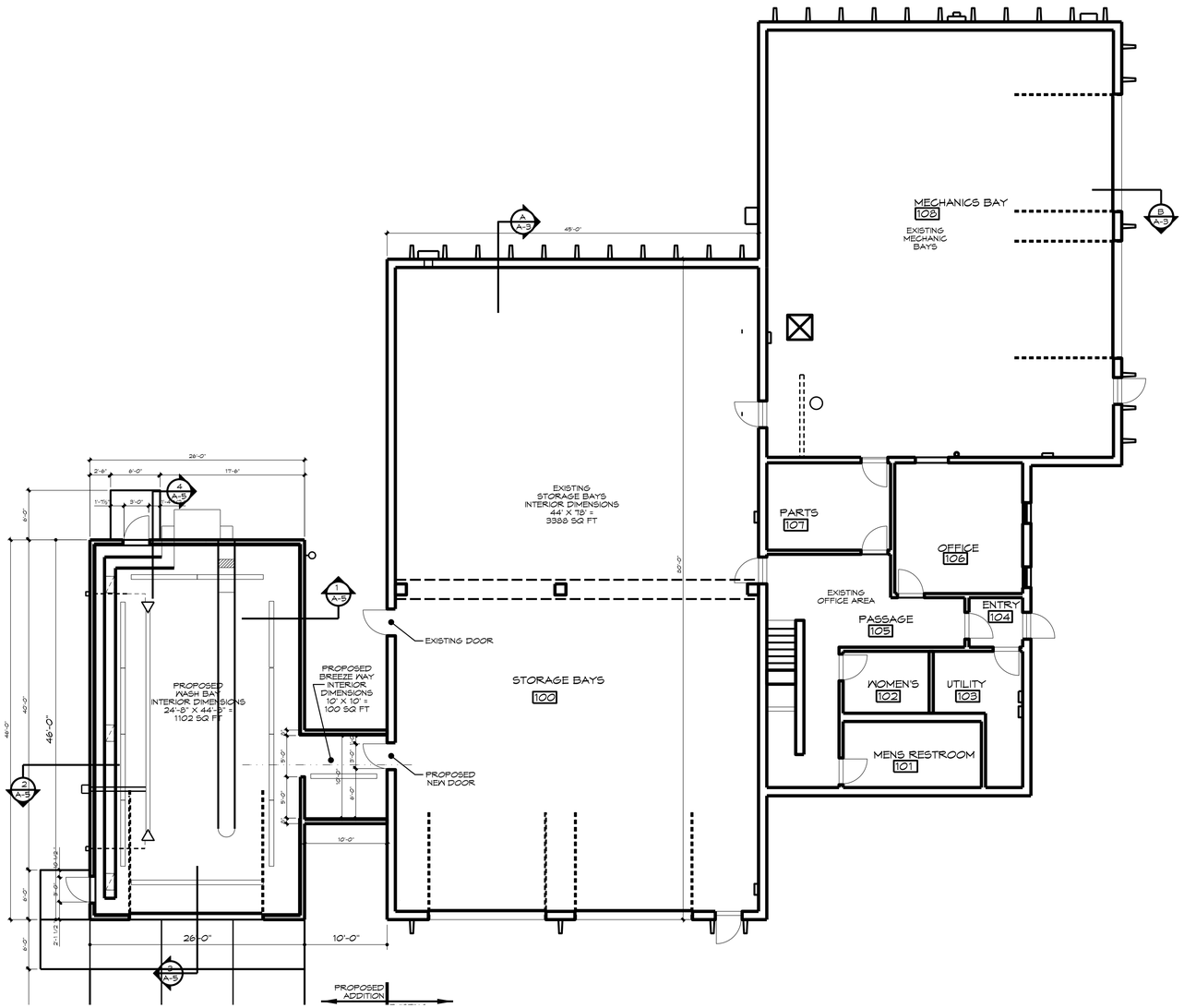
NOTES:

1. LOCATIONS SHOWN FOR EQUIPMENT IS APPROXIMATE, VERIFY EXACT LOCATIONS IN THE FIELD. COORDINATE WITH OWNER
2. COORDINATE CONTROL PANEL LOCATIONS IN THE FIELD AVOID "NET" LOCATIONS
3. ALL EXISTING FIXTURES AND EQUIPMENT TO REMAIN, PROTECT AS NECESSARY
4. EXACT LOCATIONS OF EQUIPMENT WILL BE DETERMINED IN THE FIELD BY THE OWNER
5. NEW WIRING IS REQUIRED FOR NEW INSTALLATIONS
6. INSULATE NEW ROOF AND WALL OPENINGS
7. FOLLOW MANUFACTUERS RECOMMENDATIONS FOR INSTALLATION



REFLECTED CEILING PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

REFLECTED CEILING PLAN

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06 SHEET OF 14

A-2

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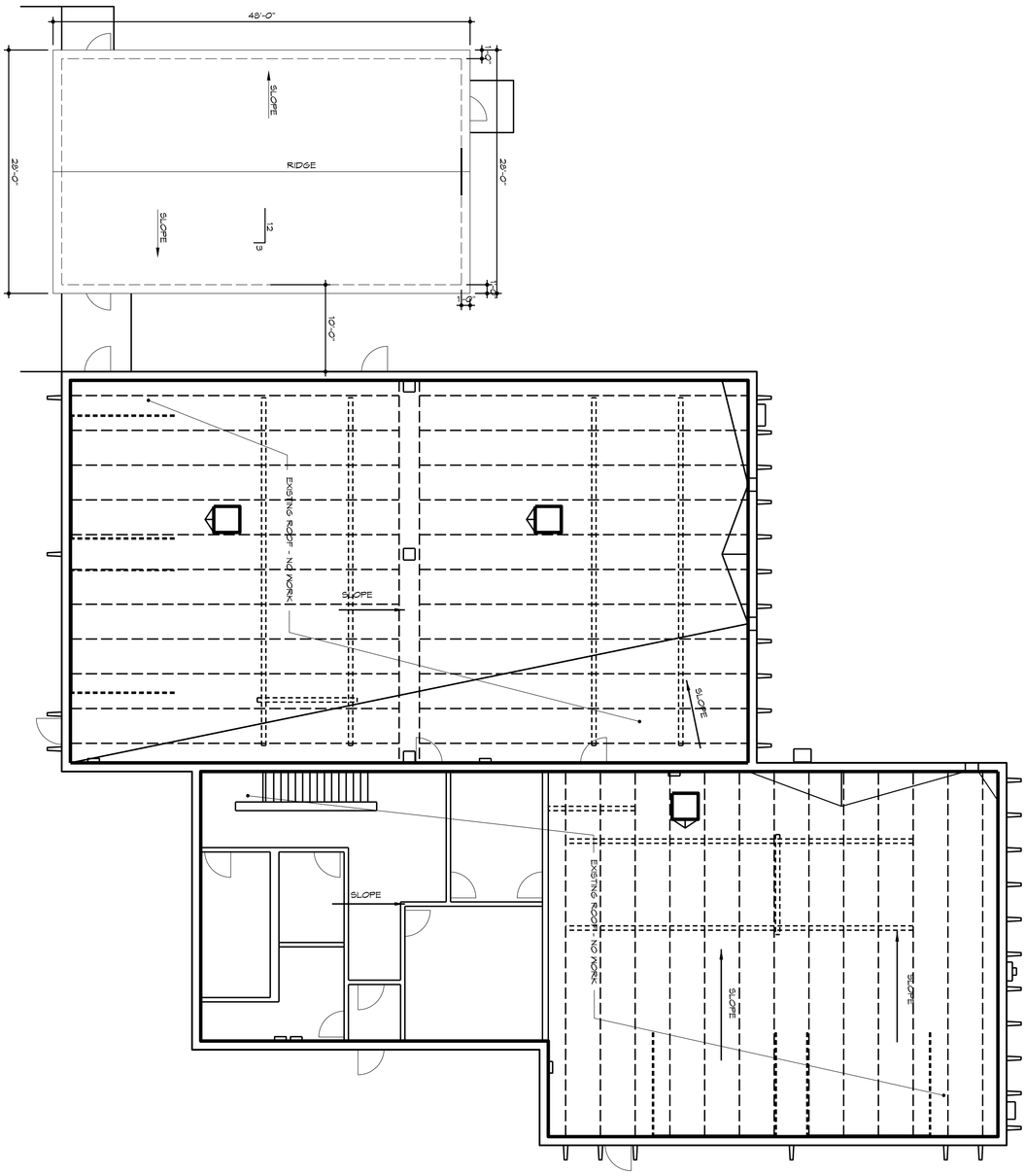

ROOF PLAN

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

A-3	07 SHEET 14 OF	REVISIONS:	APPROVED: S GUSTAFSON	DRAWN BY: DESIGN TEAM	DATE: JANUARY 2014

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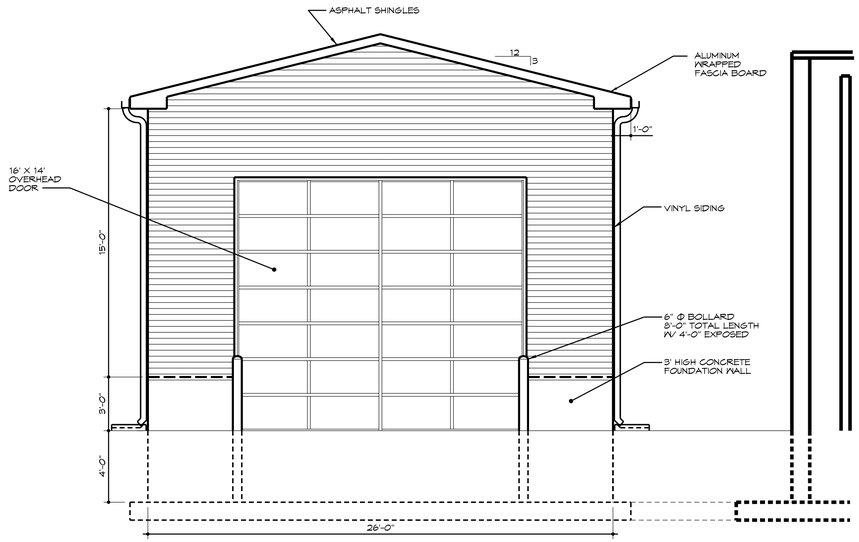
WASH BAY BUILDING — IDA GROVE, IOWA

ROOF PLAN

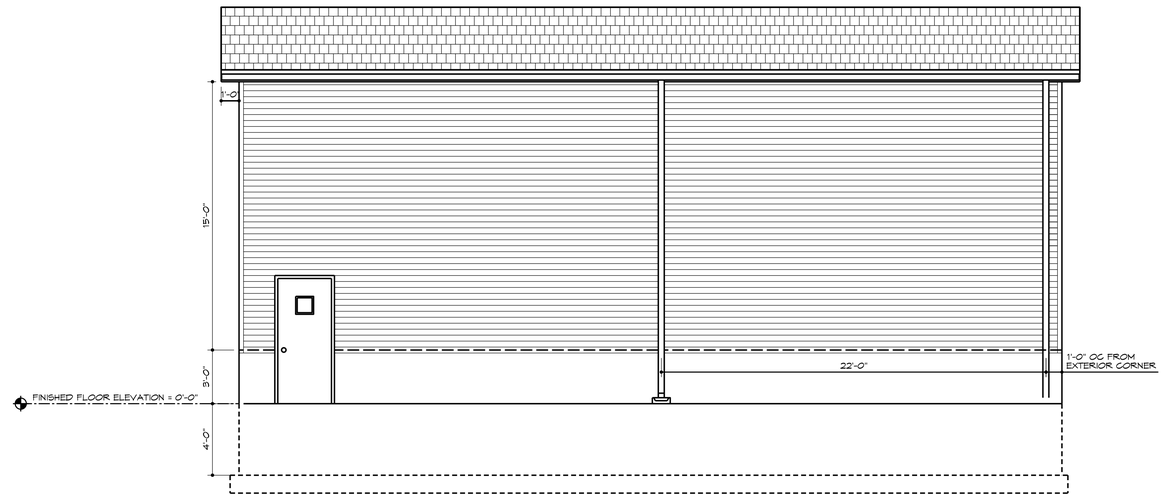
COUNTY: IDA

DISTRICT: 03

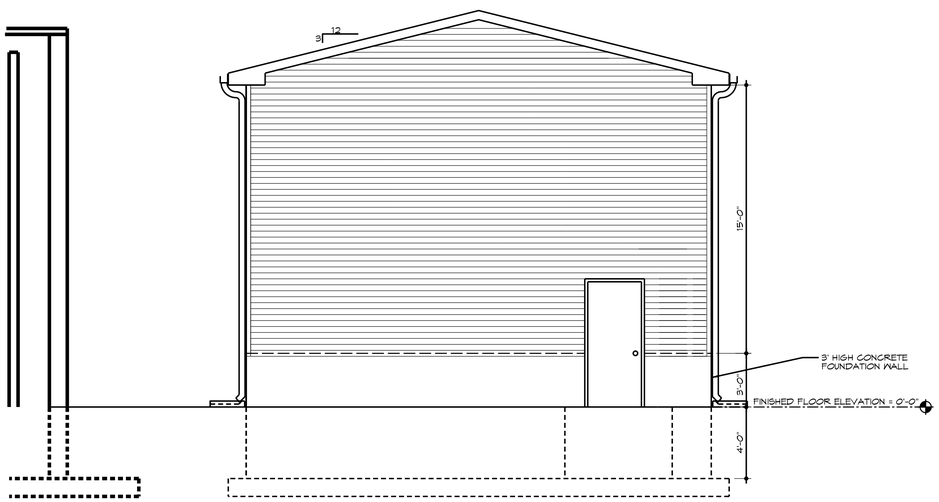
PROJECT NUMBER: BG–2D21(000)—80–47



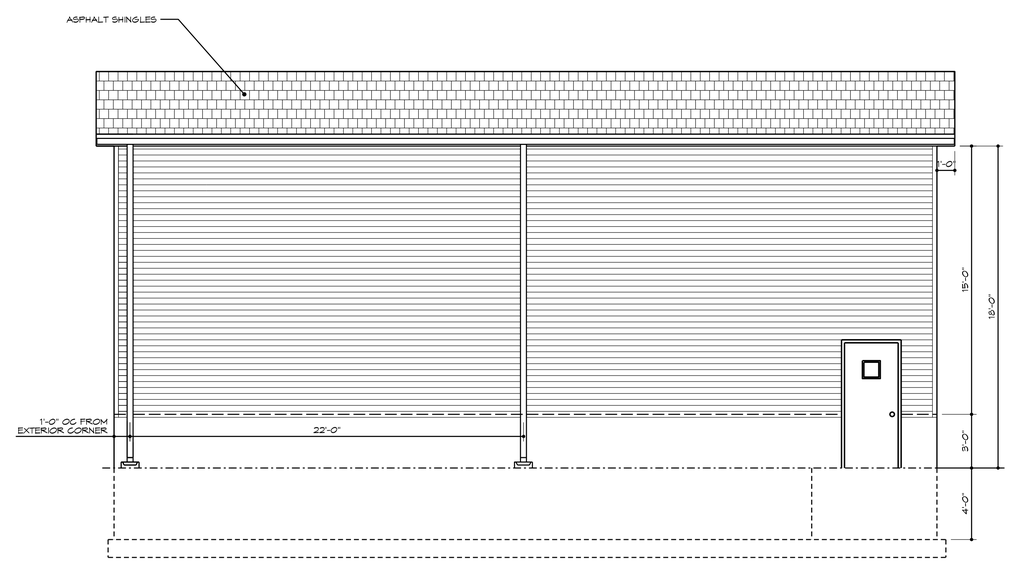
4 A-3 SOUTH ELEVATION
SCALE: 1/2"=1'-0"



3 A-3 EAST ELEVATION
SCALE: 1/2"=1'-0"



2 A-3 NORTH ELEVATION
SCALE: 1/2"=1'-0"



1 A-3 WEST ELEVATION
SCALE: 1/2"=1'-0"

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

EXTERIOR ELEVATIONS, BUILDING SECTIONS

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DATE: JANUARY 2014

DRAWN BY: DESIGN TEAM

APPROVED: S GUSTAFSON

REVISIONS:

08 SHEET OF 14

A-4

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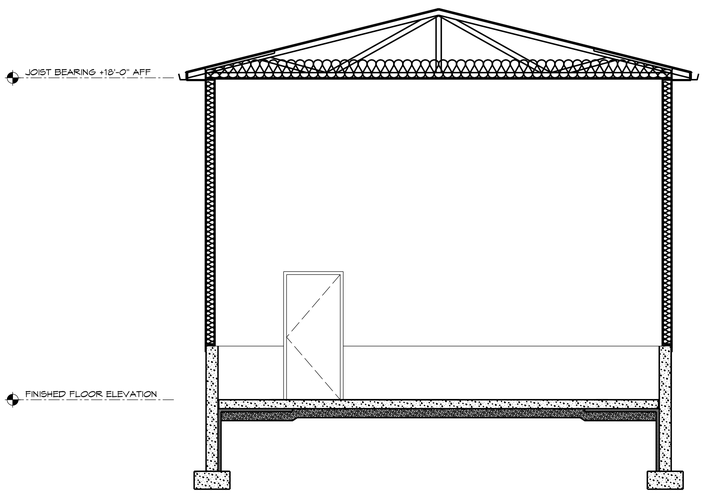
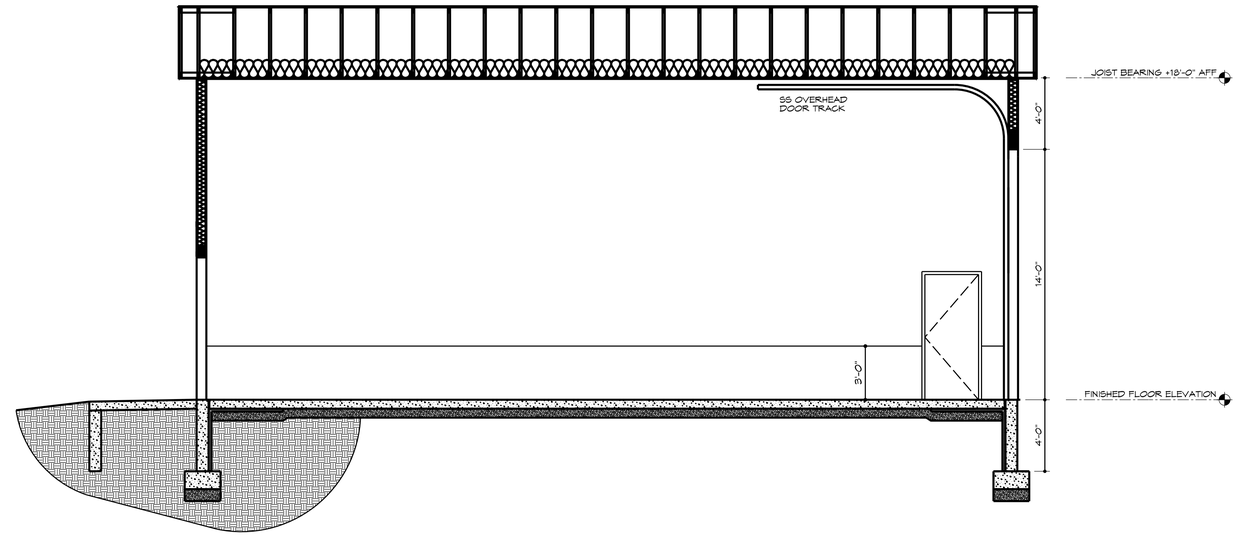
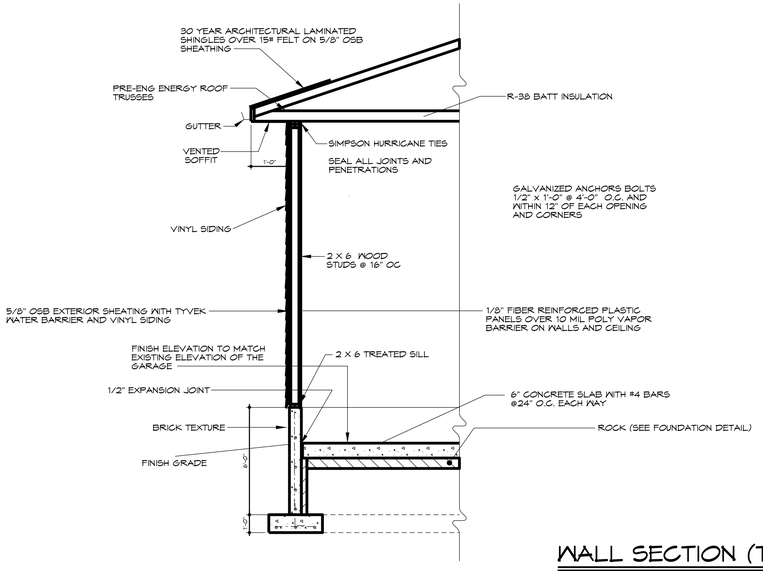


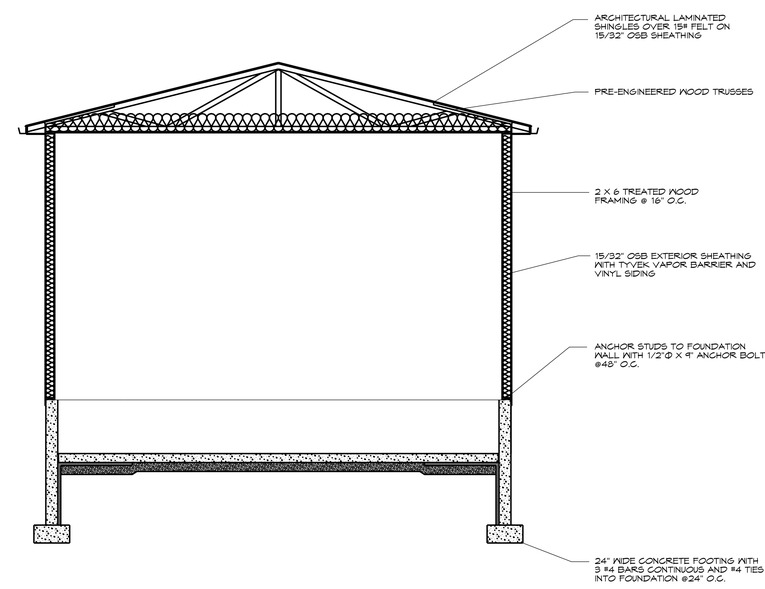
1 A-4 BUILDING SECTION - LOOKING NORTH
SCALE: 1/4"=1'-0"



2 A-4 BUILDING SECTION - LOOKING EAST
SCALE: 1/4"=1'-0"



WALL SECTION (TYP)
SCALE: N.T.S.



2 A-5 BUILDING SECTION
SCALE: 1/4"=1'-0"

DISTRICT: 03
COUNTY: IDA
PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING
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REVISIONS:

09 SHEET OF 14
A-5

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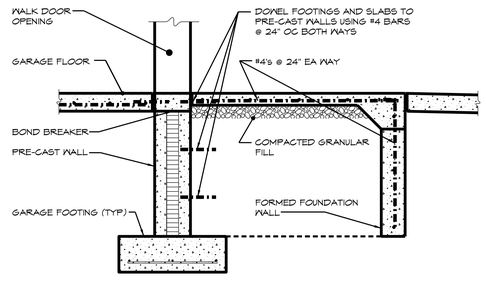
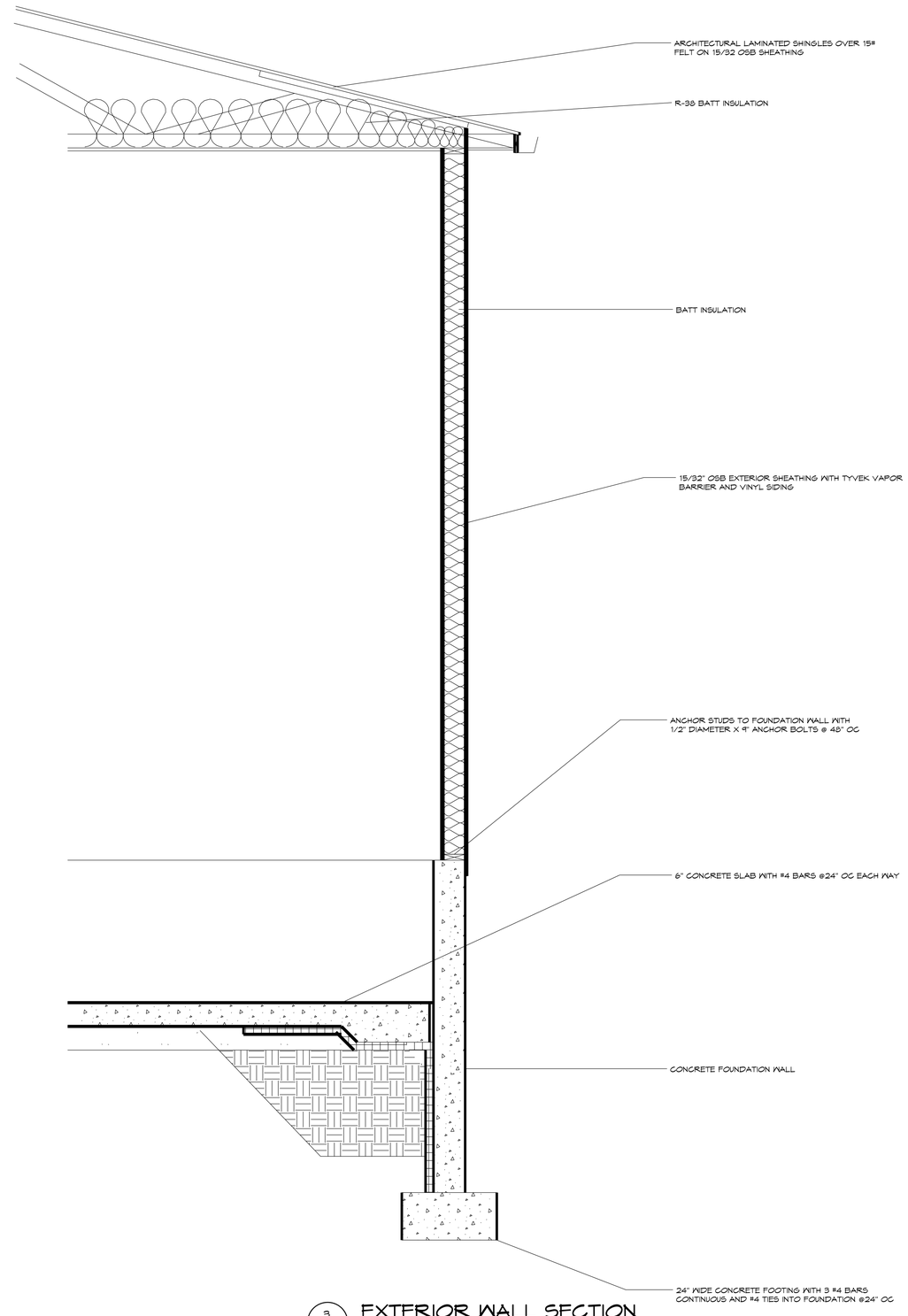


4 / A-5 STOOP FOOTING AND SLAB

SCALE: N.T.S



3 / A-5 EXTERIOR WALL SECTION

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

DETAILS

IOWA DOT
SMARTER | SIMPLER | CUSTOMER DRIVEN
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DATE: JANUARY 2014

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APPROVED: S GUSTAFSON

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SHEET 10 OF 14

A-6

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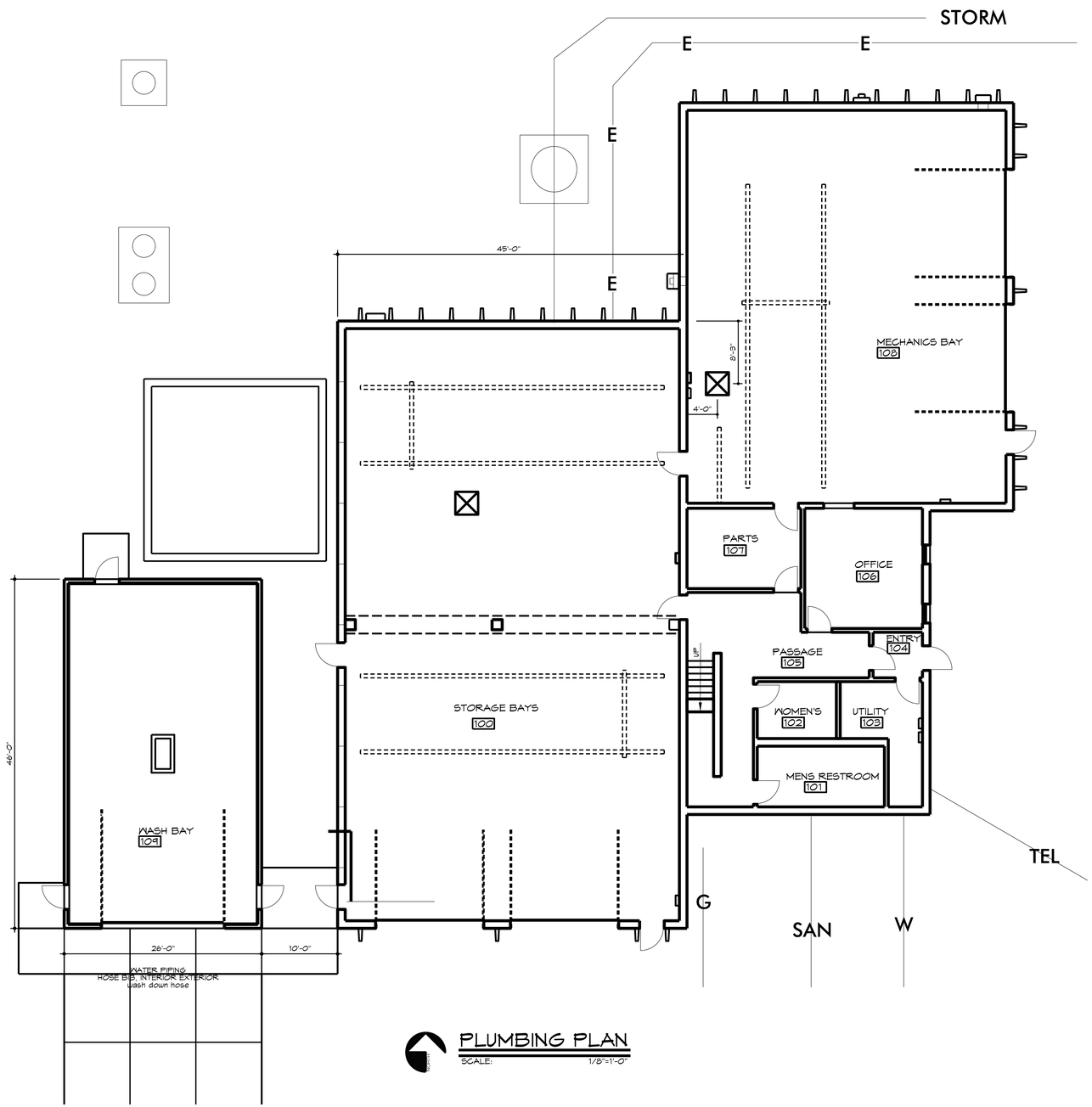

PLUMBING PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

PLUMBING PLAN

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OFFICE OF SUPPORT SERVICES
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DATE: JANUARY 2014

DRAWN BY: DESIGN TEAM

APPROVED: S GUSTAFSON

REVISIONS:

SHEET 11 OF 14

P-1

DGN_LOC

ELECTRIC DUCT COIL SCHEDULE

DESIGNATION	MANUFACTURER	CFM	SP	EAT	LAT	KW	STAGES	VOLTS/PHASE
EDC-1	TUTCO	1,500	.075	45°F	80°F	17	2	208/3

REMARKS:
1. PROVIDE THE FOLLOWING
   a. FUSED DISCONNECT AT SWITCH WITH DOOR HANDLE INTERLOCK
   b. MAGNETIC CONTACTORS
   c. TRANSFORMER FOR CIRCUITS, 120 VOLT SECONDARY
   d. SUPPLY FAN INTERLOCK
   e. STEP CONTROLLER
   f. GASKETED COVER
   g. CONTROLLING DUCT THERMOSTAT SET TO MAINTAIN 80°F DISCHARGE TEMPERATURE

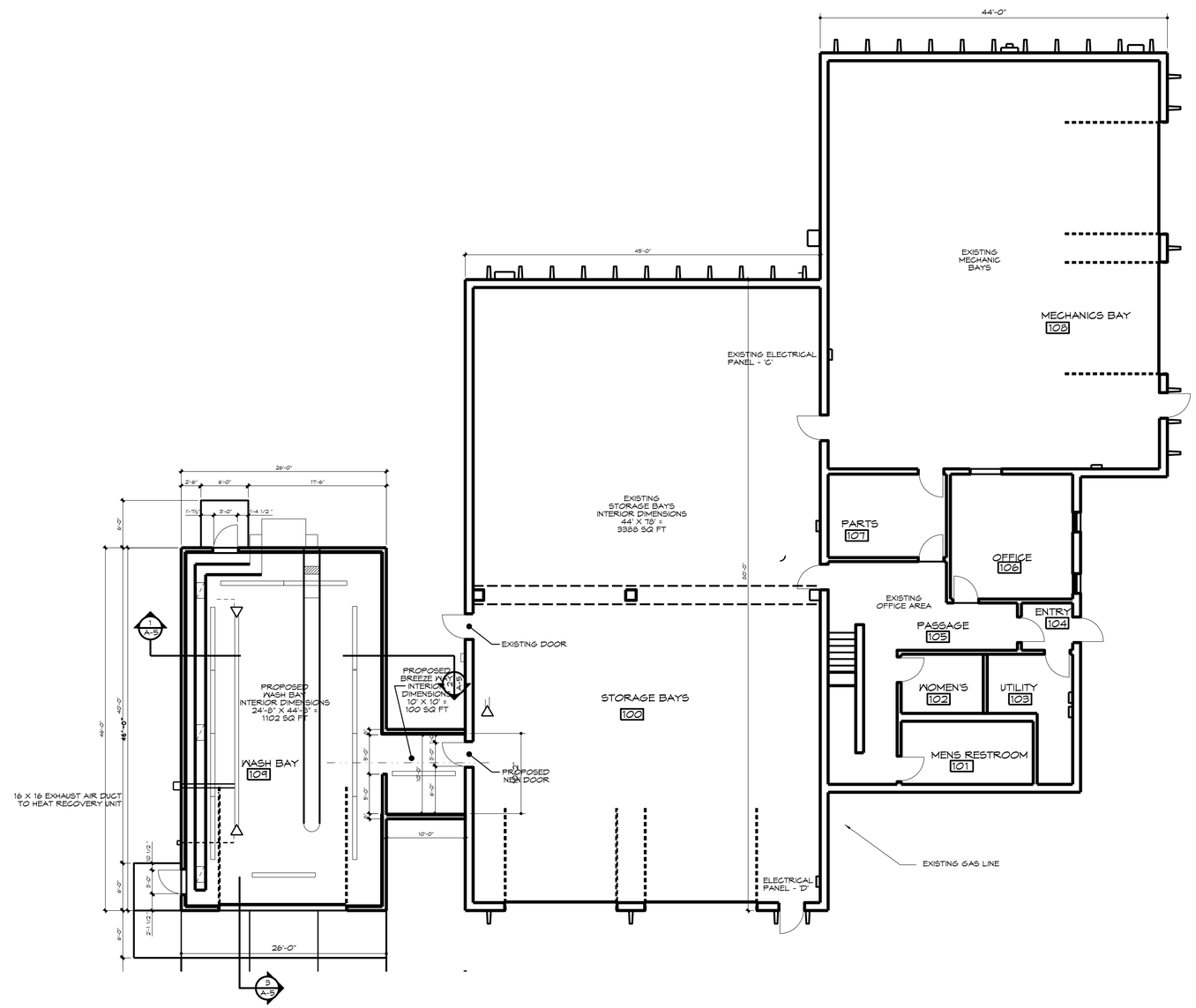
HEAT RECOVERY VENTILATOR SCHEDULE

DESIGNATION	MANUFACTURER	MODEL	FRESH AIR						EXHAUST AIR					NOTES
			CFM	ESP	FAN HP	FAN V/PH	EAT	LAT	CFM	ESP	FAN HP	FAN V/PH	EAT	
HRV-1	LIFEBREATH	1500EFD-E	1,500	1.0"	1	240/1	-10	44.6	1,500	1.0"	1	240/1	68	1

REMARKS:
1. PROVIDE UNIT WITH MANUFACTURER'S STANDARD 14" ROOF CURB
2. PROVIDE VENTILATION CONTROL 99-BC0 WITH WIRING 2-SPEED SETTING AND HUMIDSTAT FOR MOUNTING ON WALL NEAR DOOR TO STORAGE TO STORAGE BAY. PROVIDE ALL WIRING BETWEEN HRV AND WALL MOUNTED CONTROL AS REQUIRED.

NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ONE NON-FUSED MASTER DISCONNECT AND ONE SPRING-WOUND TIMER TO CONTROL BOTH FANS IN THE STORAGE BAYS, ROOM 100. TOGETHER, ONE FAN SHALL BE HARD-WIRED TO EXHAUST AND ONE SHALL BE HARD-WIRED TO INTAKE. TIMER SHALL BE 30-MINUTE TIMER.



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

DISTRICT: 03
COUNTY: IDA
PROJECT NUMBER: BG-2D21(000)—80-47

IDA GROVE, IOWA

WASH BAY BUILDING
HVAC PLAN

IOWADOT
SMARTER | SIMPLER | CUSTOMER DRIVEN
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515)239-1299

DATE: JANUARY 2014
DRAWN BY: DESIGN TEAM
APPROVED: S GUSTAFSON
REVISIONS:

SHEET 12 OF 14
M-1

DGN_LOC

EXISTING PANEL "C"
120/240-VOLT,1-PHASE, 3-WIRE W/GROUND
200-AMP 30 SPACE

CKT NO	LOAD DESCRIPTION	LOAD AMPS	BREAKER P	BREAKER AMPS
1	LIGHTS - STORAGE		1	20
2	OVERHEAD EXHAUST SYSTEM		2	30
3				
4	GRINDER		2	20
5				
6	LIGHTS - MECHANICS BAYS		1	20
7	DUPLEX RECEPTACLES - SHOP/PARTS		1	20
8	DUPLEX RECEPTACLES - SHOP		1	20
9	LIGHTS - SHOP		1	20
10	DUPLEX RECEPTACLES - SHOP		1	20
11	LIGHTS - SHOP		1	20
12				
13	TWO WAY FAN		2	40
14	-			
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
	PANEL TOTALS			

EXISTING PANEL "D"
120/240-VOLT, 1-PHASE, 3-WIRE W/GROUND
200-AMP 30 SPACE

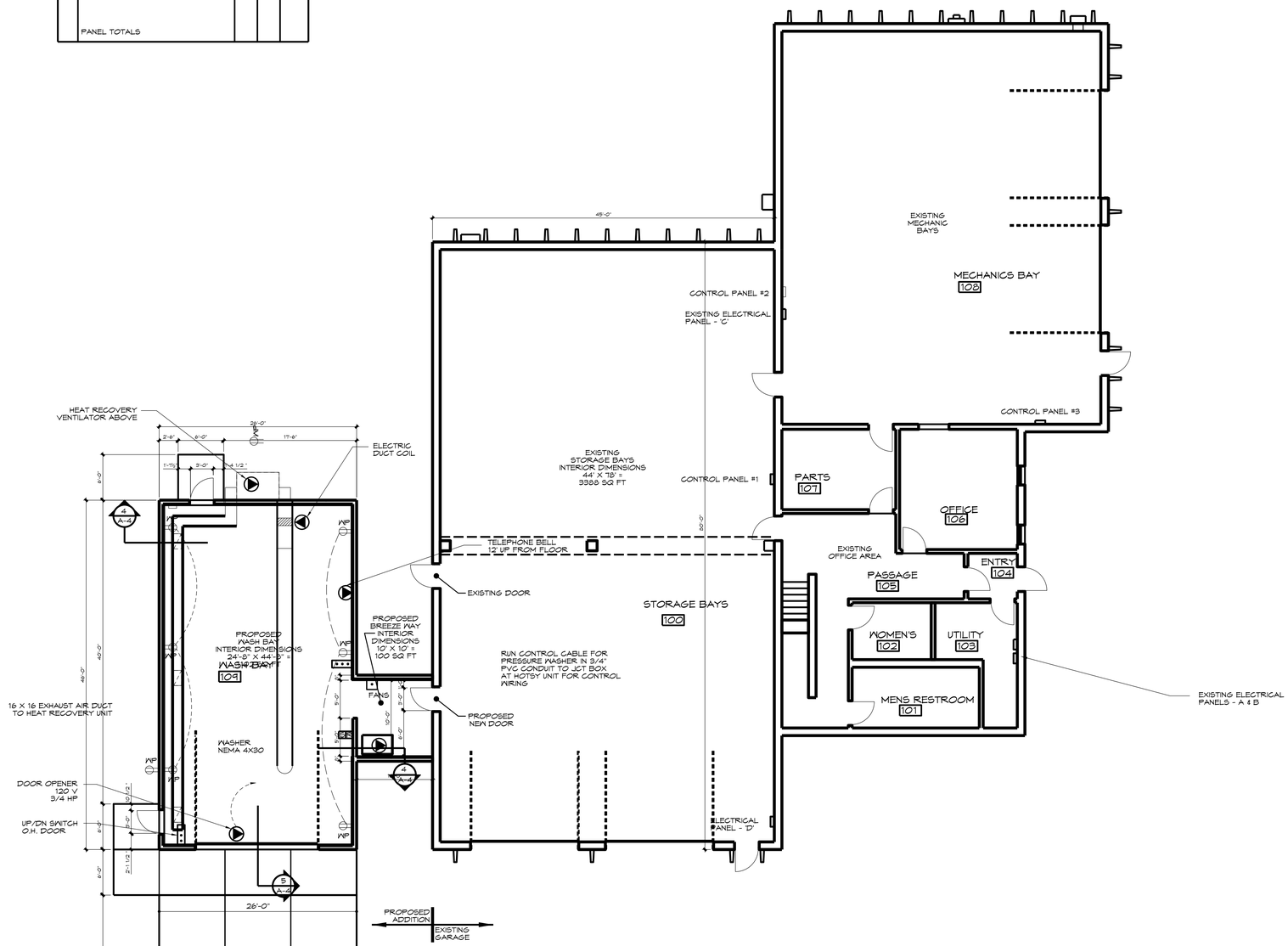
CKT NO	LOAD DESCRIPTION	LOAD AMPS	BREAKER P	BREAKER AMPS
1	BLANK			
2	BLANK			
3	SPARE		1	20
4	FRESH AIR INTAKE FAN		1	20
5	BLANK		1	
6	DUPLEX RECEPTACLES - EXTERIOR		1	20
7	BLANK			
8	DUPLEX RECEPTACLES - STORAGE		1	20
	BLANK			
10	LIGHTS - STORAGE		1	20
11	DUPLEX RECEPTACLES, HEAT TAPES		1	20
12	DUPLEX RECEPTACLES - STORAGE		1	20
13	SALT SHED		1	20
14	EXHAUST AIR FAN		2	20
15				
16	SUPPLY AIR FAN		2	20
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
	PANEL TOTALS			

NOTES:

1. CONTRACTOR SHALL RUN CONDUITS AND BOXES FOR TELEPHONE AND RADIO OUTLETS SHOWN ON PLANS
2. RUN MINIMUN OF 3/4" CONDUITS TO EACH BOX FROM THE COMMUNICATIONS BOARD IN THE ELECTRICAL EQUIPMENT ROOM
3. INSTALL SURFACE MOUNT BOXES IN UNFINISHED AREAS
4. INSTALL FLUSH- MOUNT BOXES IN FINISHED AREAS
5. PROVIDE A PULL ROPE IN EACH CONDUIT
6. WIRING FOR TELEPHONE AND RADIO BY OTHERS
7. GROUP CONVENIENCE OUTLETS, TELEPHONES, AND RADIO OUTLETS CLOSE TOGETHER.
8. DO NOT SCALE DRAWINGS FOR PLACEMENT OF OUTLETS CONTRACTOR SHALL GROUP SWITCHES, OUTLETS, AND LOW-VOLTAGE BOXES WHERE PRACTICAL, AND SHALL CONSULT WITH DESIGNER FOR PLACEMENT
9. CONTRACTOR SHALL FURNISH AND INSTALL GROUND FAULT CIRCUIT INTERRUPTING (GFCI) BREAKERS IN PANELS FOR OUTLET CIRCUITS.
10. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ELECTRICAL, MECHANICAL, AND OTHER CONDUIT PLACEMENT
11. ALL OUTLETS, SWITCHES, EXPOSED CONDUITS, AND BOXES IN WASHBAY ROOM #109, SHALL BE SCHEDULE 40 PVC AND WEATHER PROOF.
12. CONTRACTOR TO CONNECT GROUNDING POINTS NOT INDICATED IN THIS DRAWING, A CONCRETE ENCASED ELECTRODE,A SUPPLEMENTAL GROUNDING ELECTRODE, AND NATURAL GAS PIPING.

KEY

- SPECIAL JUNCTION BOX
- RADIO OUTLET
- SPEAKER LOCATION
- DUPLEX OUTLET
- TELEPHONE JACK
- HOME RUN
- CLOCK OUTLET
- PUSH BUTTON
- DOOR BUTTONS
- SHOP TELEPHONE



ELECTRICAL PLAN

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

DISTRICT: 03

COUNTY: IDA

PROJECT NUMBER: BG-2D21(000)--80-47

IDA GROVE, IOWA

WASH BAY BUILDING

ELECTRICAL PLAN

IOWA DOT
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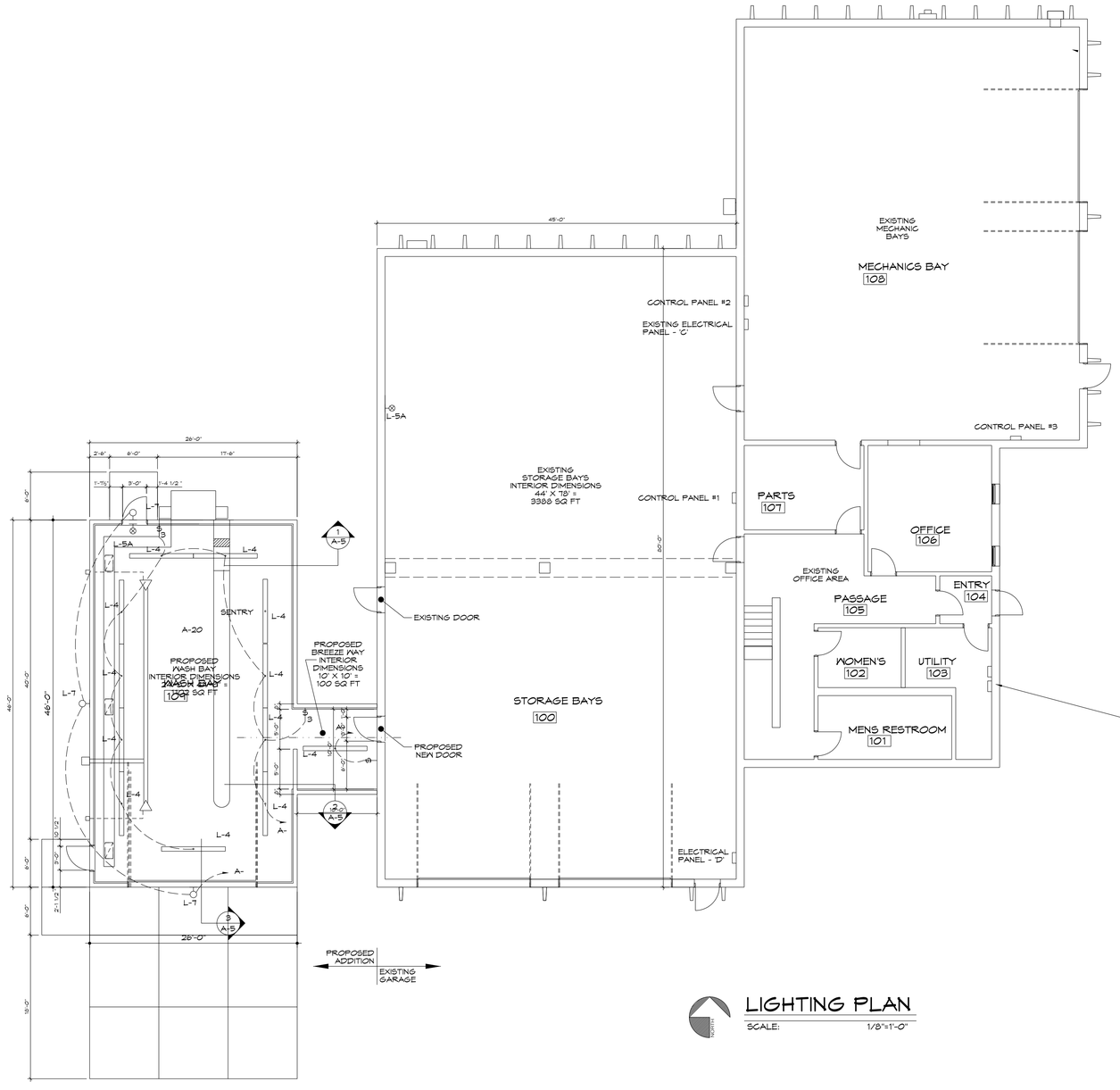
13 SHEET OF 14

E-1

DGN_LOC



LIGHTING PLAN

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

KEY

- SPECIAL JUNCTION BOX
- RADIO OUTLET
- SPEAKER LOCATION
- DUPLEX OUTLET
- TELEPHONE JACK
- HOME RUN
- CLOCK OUTLET
- PUSH BUTTON
- DOOR BUTTONS
- SHOP TELEPHONE

KEY

- EXTERIOR FIXTURE
- FLUORESCENT FIXTURE
- SURFACE FLUORESCENT FIXTURE
- SOFFIT LIGHT
- SINGLE-POLE SWITCH
- THREE-WAY SWITCH
- OCCUPANCY SENSOR, CEILING MOUNT
- OCCUPANCY SENSOR, WALL MOUNT
- PHOTO CELL
- LIGHTING POWER PACK
- HOME RUN

NOTES:

1. EXTERIOR LIGHTS ARE MOUNTED ON WALLS AT 17' AFF
2. SEE SPECIFICATIONS FOR EACH LIGHT FIXTURE TYPE FOR MOUNTING REQUIREMENTS
3. ALL EXTERIOR LIGHTING FIXTURES SHALL OPERATE BY DUSK-TO-DAWN PHOTOCELLS
4. SENTRY LIGHTS SHALL BE BALLASTED 2 & 2, WITH ONLY TWO TUBES IN EACH FIXTURE ACTING AS SENTRY LIGHTS. THE OTHER FOUR TUBES SHALL BE CONNECTED TO THE POWER FOR THE OTHER LIGHT FIXTURES IN THE SAME ROW.

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