

STORAGE BUILDING

INDIANA DEPARTMENT OF NATURAL RESOURCES

MORaine NATURE PRESERVE

PROJECT NO. E160010



Certified by:

LOCATION MAP



DRAWINGS INDEX

- GENERAL**
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- CIVIL ENGINEERING**
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A-4 SHEAR WALLS PLAN & ELEVATIONS, DETAILS
A-5 BUILDING ELEVATIONS, DOOR SCHEDULE, FINISH SCHEDULE
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PROJECT INFORMATION

BUILDING ADDRESS: Moraine Nature Preserve
275 E 650 N
Valparaiso, IN 46383

COUNTY: Porter

OCCUPANCY TYPE: S-2

CONSTRUCTION TYPE: TYPE V B
INDIANA BUILDING CODE 2014 EDITION

ZONING AUTHORITIES: N/A

BUILDING AREA: Un-heated 1713 square feet
Semiheated 1047 square feet
TOTAL 2760 square feet

OCCUPANT LOAD: 2 people - part time.

BUILDING ENVELOPE for Semiheated part Climate Zone 5 A

ROOF: Attic - Batt Insulation R-38
Walls Above-Grade: Batt Insulation R-19
Walls Below-Grade: NR
Slab-On-Grade: Perimeter Rigid Insulation R-10 for 12"
Garage Door: Rigid Insulation R-14.8 - see Drawing A-5
Pedestrian Door: Rigid Insulation R-14.8 - See Drawing A-5
Windows: R-2.4 - See Drawing A-5

STORAGE BUILDING
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275 E 650 N
VALPARAISO, INDIANA 46383

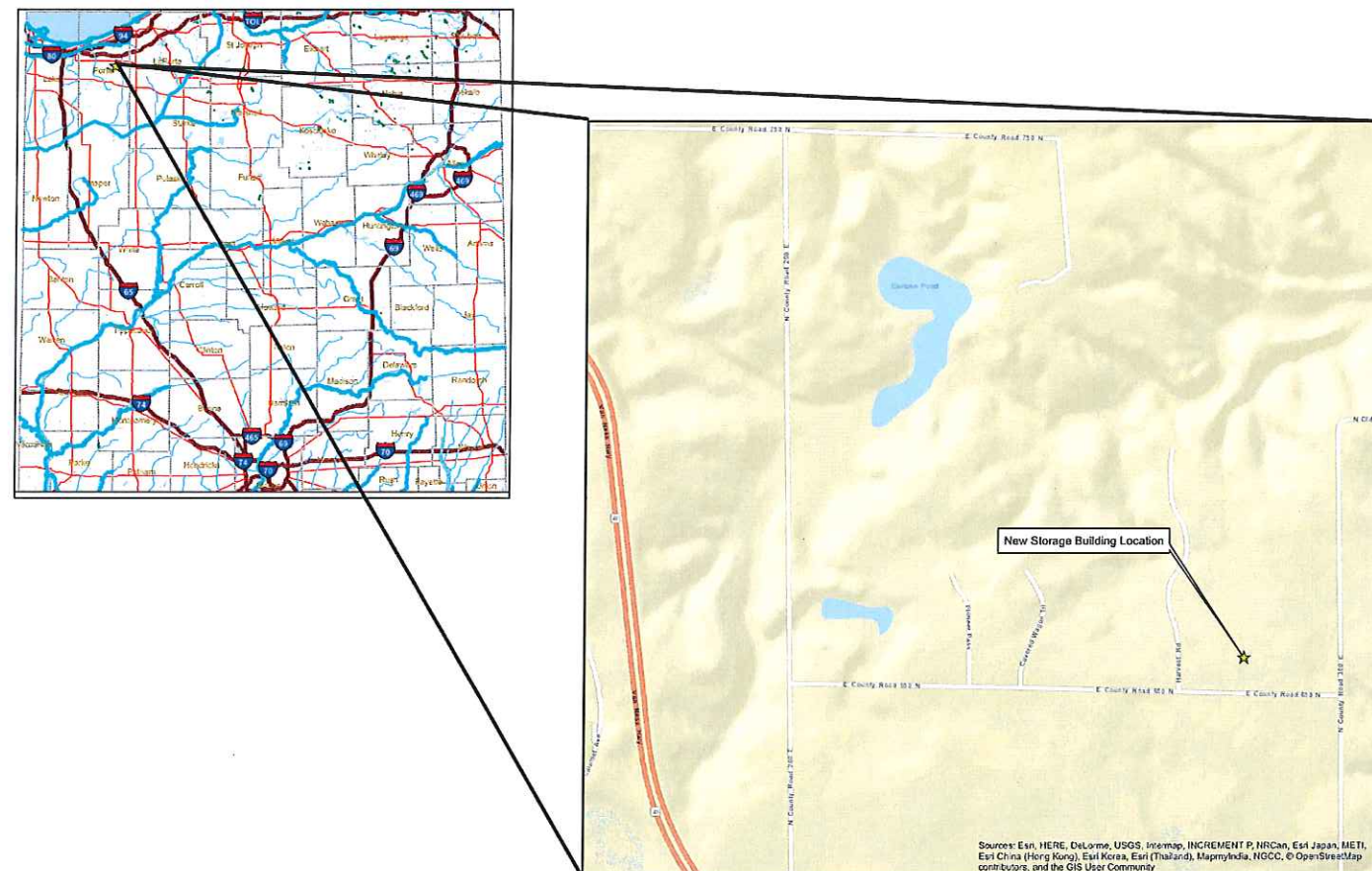


STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM 400 WEST INDIANA GOVERNMENT CENTER SOUTH
400 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-232-1150, FAX 317-232-1205

Revisions:

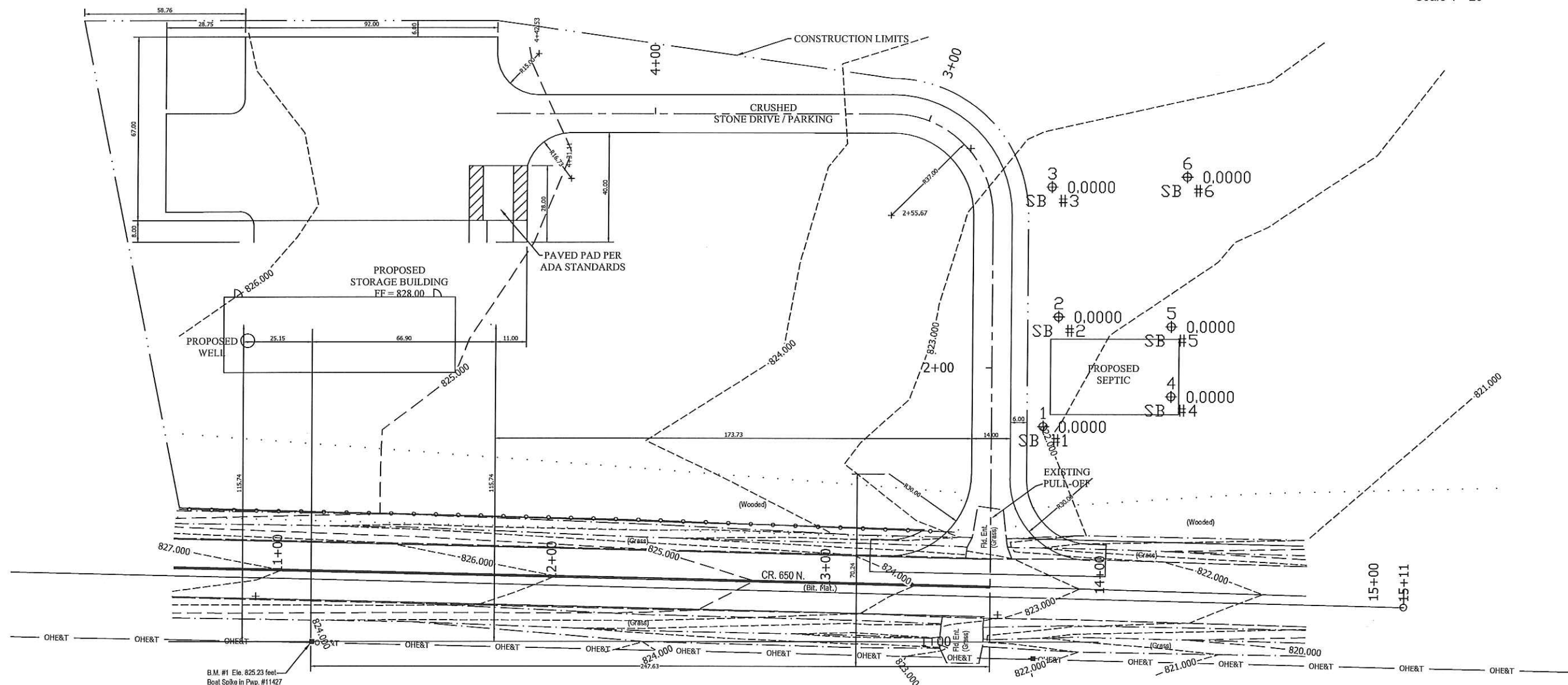
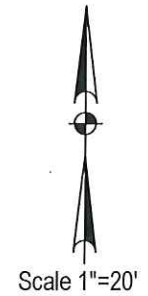
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Requisition Number:
Designer: Drawing Date: 09-13-17
Drafter: Drawing Scale: AS NOTED
DNR Approval:
Client Approval:
File Number: 400-071
Drawing Number: G-1
Sheet: 1 of 12

VICINITY MAP





Certified by:



B.M. #1 Ele. 825.23 feet
Boat Spike in Pwp. #11427

Note: It is the responsibility of the contractor to ensure that all utility connections are made at the time of construction.

STORAGE BUILDING
MORaine NATURE PRESERVE
DEPT. OF NATURAL RESOURCES
1600 N. 25 E.
CHESTERTON, INDIANA 46304



STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENGINEERING
ROOM #239, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
COLUMBIA, INDIANA 46204
TEL: 317-232-4150; FAX: 317-232-1315

Revisions:

Project Number: E160010
Requisition Number: Requisition#
Designer: D.K. Drawing Date: 07-26-17
Drafter: D.K. Drawing Scale: AS NOTED

DNR Approval:
Client Approval:
File Number: 400-071
Drawing Number: C-1
Sheet: 2 of 12



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STORAGE BUILDING
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 1600 N. 25 E.

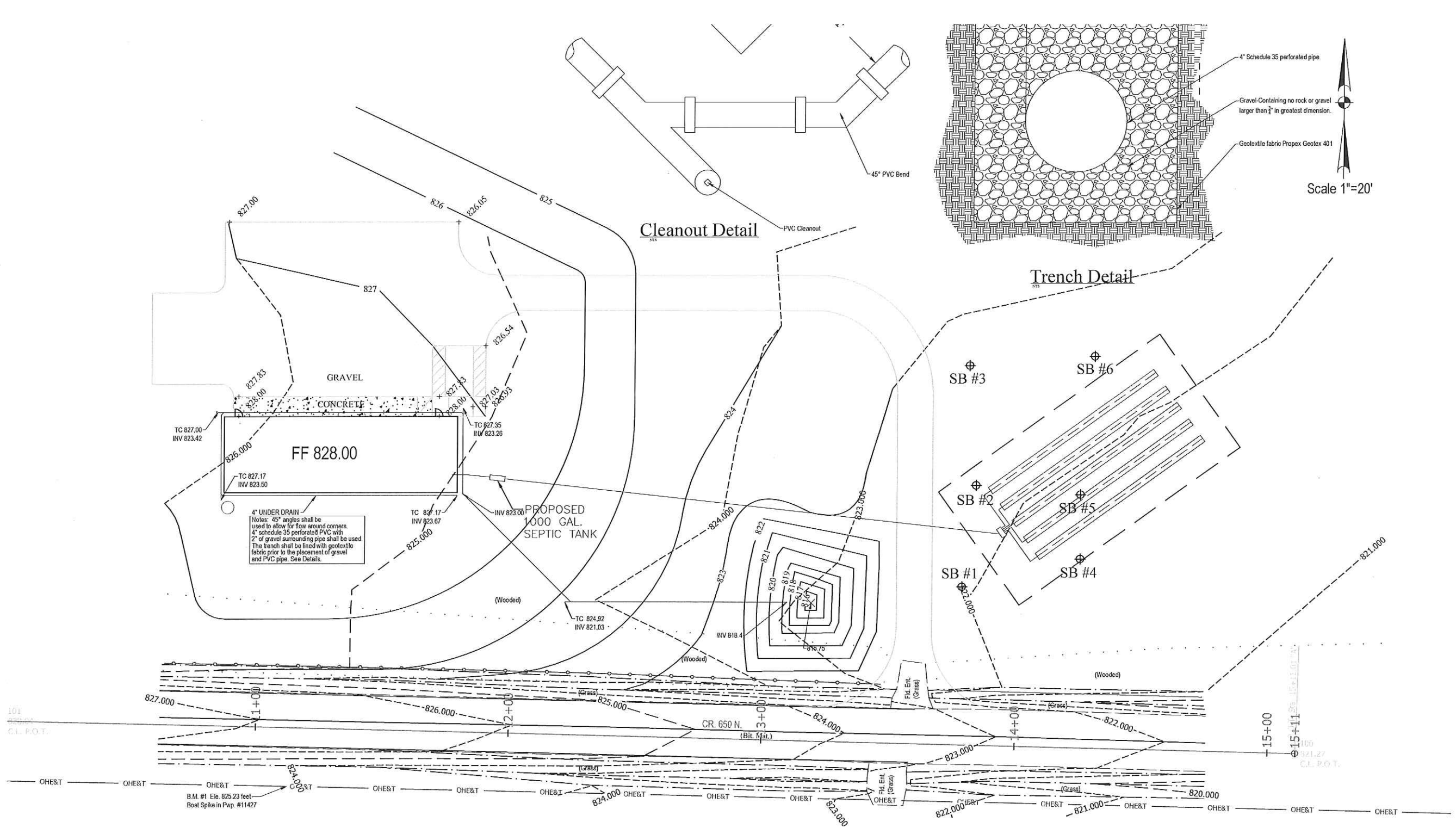


STATE OF INDIANA
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 DIVISION OF ENGINEERING
 ROOM 7076, INDIANA GOVERNMENT CENTER SOUTH
 405 WEST WASHINGTON STREET
 INDIANAPOLIS, INDIANA 46204

Revisions:

Project Number: E160010
 Requisition Number: Requisition#
 Designer: D.K. Drawing Date: 07-26-17
 Drafter: D.K. Drawing Scale: AS NOTE
 DNR Approval:

Client Approval:
 File Number: 400-07
 Drawing Number:
 Sheet: C-2 of 15



DESIGN DATA:

- CODES AND STANDARDS: (ALL WORK SHALL CONFORM WITH THE FOLLOWING BUILDING CODES AND STANDARDS)
 - GENERAL DESIGN: INTERNATIONAL BUILDING CODE, 2012 EDITION (IBC), IN ACCORDANCE WITH INDIANA 2014 BUILDING CODE WITH AMENDMENTS.
 - DESIGN LOADS: ASCE'S "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE/SEI 7-10).
- SOIL INFORMATION: SOIL BEARING PRESSURE: 1500 PSF NEEDED AND ASSUMED.
- RISK CATEGORY (IBC TABLE 1604.5) _____ CATEGORY I
- LIVE LOADS: (IBC TABLE 1607.1)

ROOF _____ 45 PSF (CS)
PLUS SNOW DRIFT 7 MILES SOUTH FROM LAKE MICHIGAN CONSIDERATIONS
- WIND LOADS: (IBC SECTION 1609 AND ASCE 7)

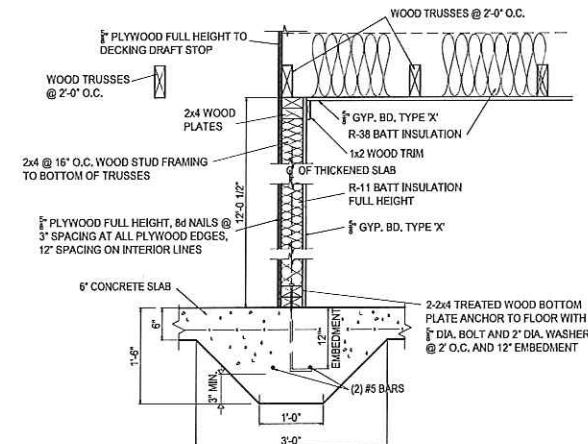
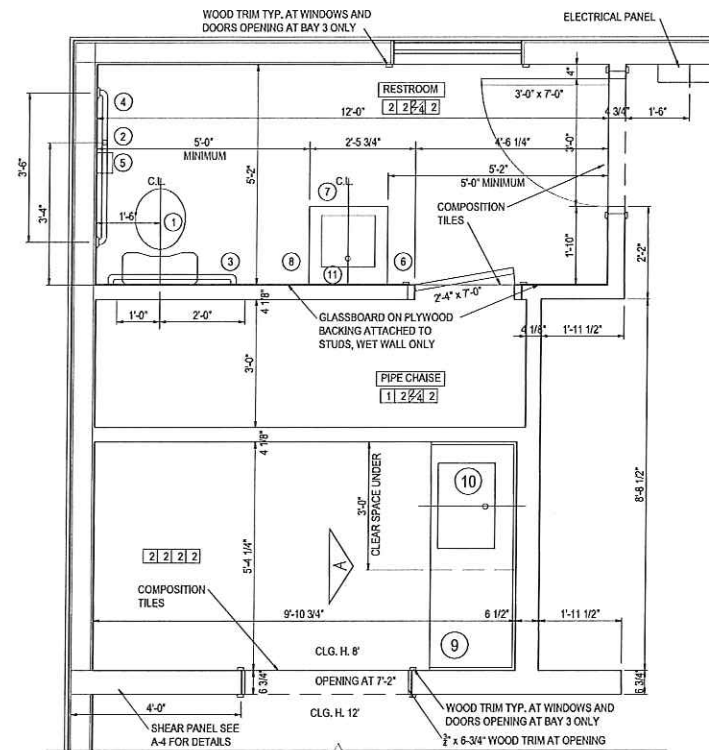
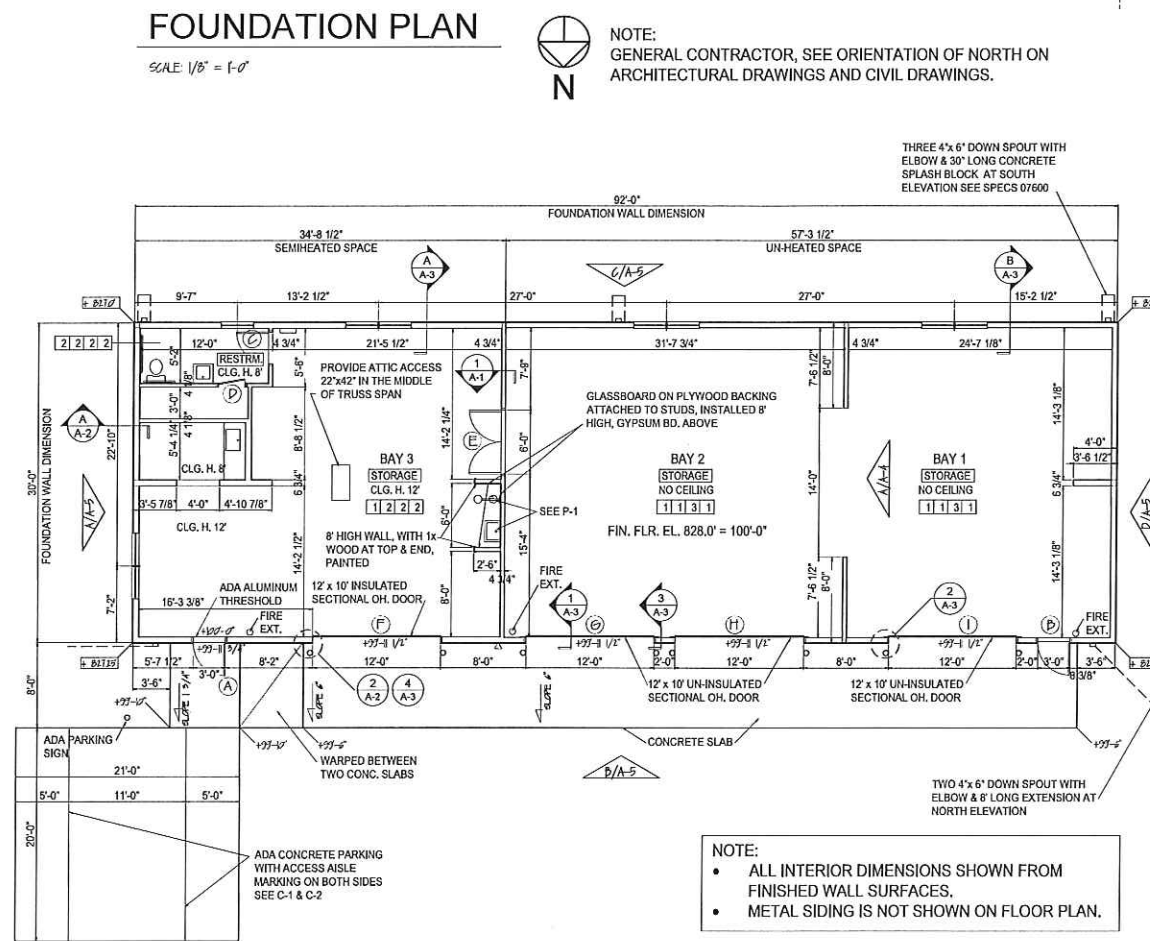
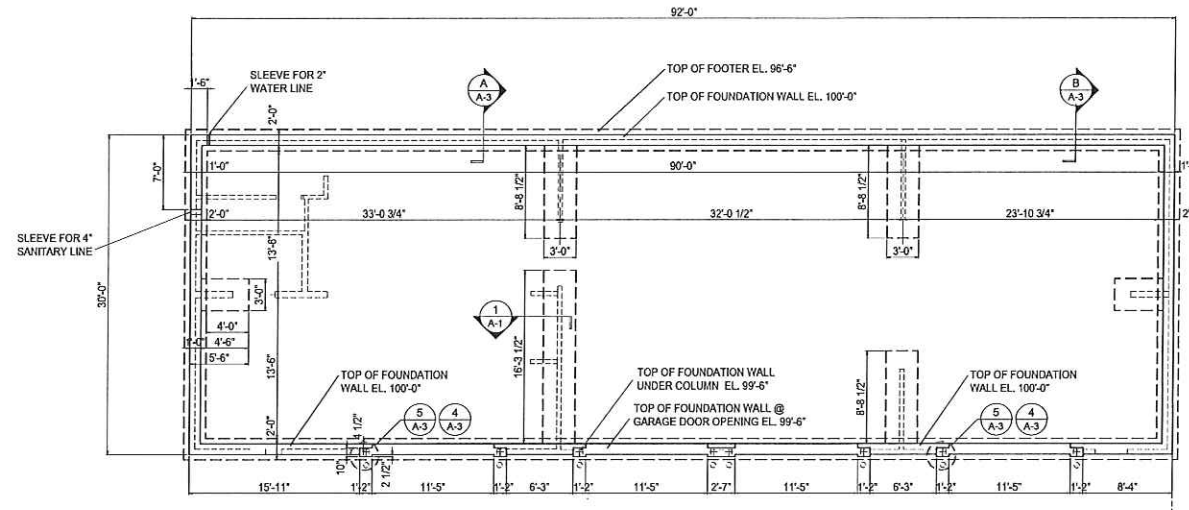
BASE WIND SPEED / ULTIMATE DESIGN WIND SPEED _____ 105 MPH
NOMINAL DESIGN WIND SPEED (ASD) _____ 82 MPH
EXPOSURE _____ B
- DEAD LOADS:

WEIGHT OF MATERIALS AS DETERMINED BY SYSTEM SELECTED.
MINIMUM COLLATERAL LOAD FOR MECHANICAL, ELECTRICAL, ETC. _____ 10 PSF
- SNOW DESIGN CRITERIA (IBC SECTION 1608 LOADS:

GROUND SNOW LOAD, PG _____ 45 PSF (CS)
IMPORTANCE FACTOR, I _____ 1.00
- DEFLECTION CRITERIA (IBC TABLE 1604.3)

ROOF SNOW LOAD WITHOUT CEILINGS _____ L / 240
ROOF DEAD AND LIVE LOAD WITHOUT CEILINGS _____ L / 240
- SEISMIC LOADS: FOR PRIMARY SYSTEMS (IBC SECTION 1613 AND ASCE 7)

SEISMIC DESIGN CATEGORY _____ A
- LUMBER: SOUTHERN PINE #2, KILN DRIED, WITH A MAXIMUM MOISTURE CONTENT OF 15%, OR APPROVED EQUAL.
SHEAR PANELS SHEATHING & EXTERIOR WALL SHEATHING: PLYWOOD, APA STRUCTURAL I RATED, EXPOSURE 1, $\frac{3}{8}$ " THICK.
- TESTING: ALL COMPACTED STONE UNDER SLABS AND FOOTERS SHALL BE #3 STONE COMPACTED TO MINIMUM OF 100% STANDARD PROCTOR.
STONE COMPACTION AND CONCRETE TESTING (SEE SPECS SECTION 03300, 3.07) SHALL BE PERFORMED BY A PROFESSIONAL GEOTECHNICAL ENGINEERING FIRM. ALL RESULTS FROM TESTS SHALL BE FORWARDED TO IDNR DESIGNERS.



ACCESSORY / EQUIPMENT INDEX

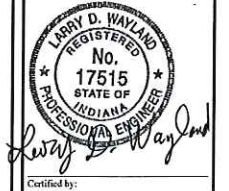
SEE P-1 FOR SPECIFIC FIXTURE INFORMATION

- ADA WATER CLOSET: SEAT TOP MOUNT AT 18" A.F.F.,
- VERTICAL GRAB BAR: 18" LONG, MOUNT BOTTOM AT 40" A.F.F.; 40" FROM FACE OF BACK WALL.
- HORIZONTAL GRAB BAR: 36" LONG, MOUNT TOP AT 2'-11" A.F.F.
- HORIZONTAL GRAB BAR: 42" LONG, MOUNT TOP AT 2'-11" A.F.F.
- TOILET TISSUE HOLDER: BOTTOM MOUNT AT 24" A.F.F.
- STAINLESS STEEL HOOKS, MOUNT AT 44" A.F.F.
- LAVATORY: TOP AT 2'-10" A.F.F.
- GFCI RECEPTACLE LOCATED AT 38" A.F.F.
- 2 FEET WIDE LAMINATED COUNTERTOP WITH 4" BACKSPASH, TOP AT 2'-10" A.F.F. - PROVIDE 2x4 AT BACK AND SIDE WALLS FOR SUPPORT.
- SINK, MOUNT AT 2'-10" A.F.F.
- MIRROR, MOUNT REFLECTIVE SURFACE 40" A.F.F. MAXIMUM

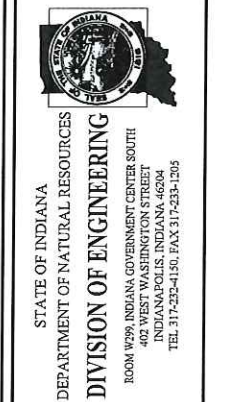
FINISH SCHEDULE

	BASE	WALL	CEILING
FLOOR	1	1	1
1. CONCRETE WITH HARDENER	1. NONE	1. NONE	1. NONE
2. COMPOSITION TILES	2. 4" VBNYL	2. 5/8" GYP. BD. PAINT	2. 5/8" GYP. BD. PAINT
		3. NONE, EXCEPT SHEAR WALL / PANEL	
		4. GLASSBOARD ON 1/2" PLYWOOD	

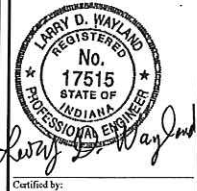
NOTE: PROVIDE GLASSBOARD ON PLYWOOD DECKING ONLY ON WET WALL IN RESTROOM AND WALLS AROUND SERVICE SINK AND EYE WASH.



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275 E 650 N
VALPARAISO, INDIANA 46383



Project Number: E160010
Requisition Number:
Designer: L.W./B.D. Drawing Date: 09-13-17
Drafter: B.D. Drawing Scale: AS NOTED
IDNR Approval:
Client Approval:
File Number: 400-071
Drawing Number: A-1
Sheet: 4 of 12



Certified by:

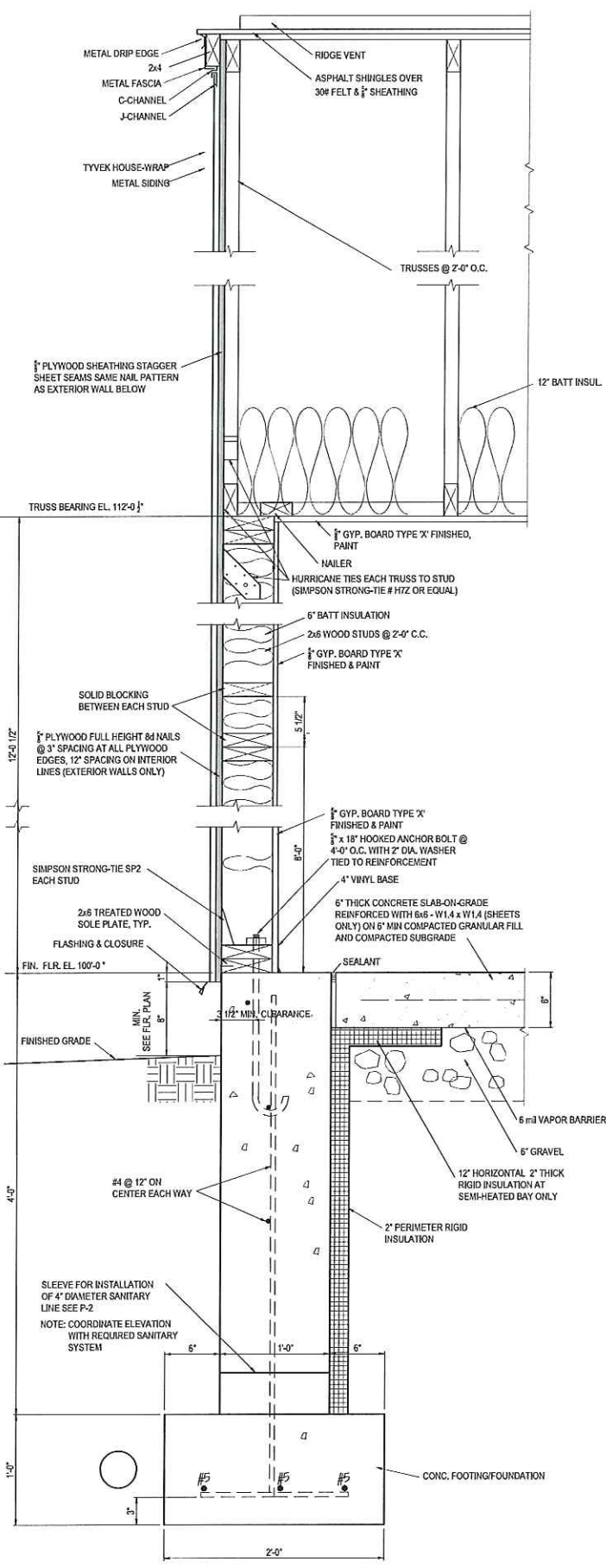
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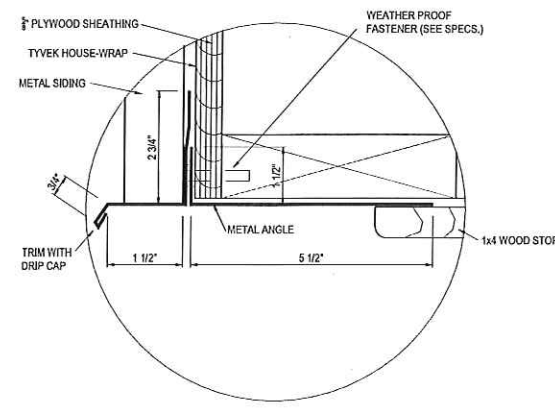
STATE OF INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF ENGINEERING
 ROOM #299, INDIANA GOVERNMENT CENTER SOUTH
 402 WEST WASHINGTON STREET
 INDIANAPOLIS, INDIANA 46204
 TEL: 317-232-4150; FAX: 317-233-1205

Revisions:

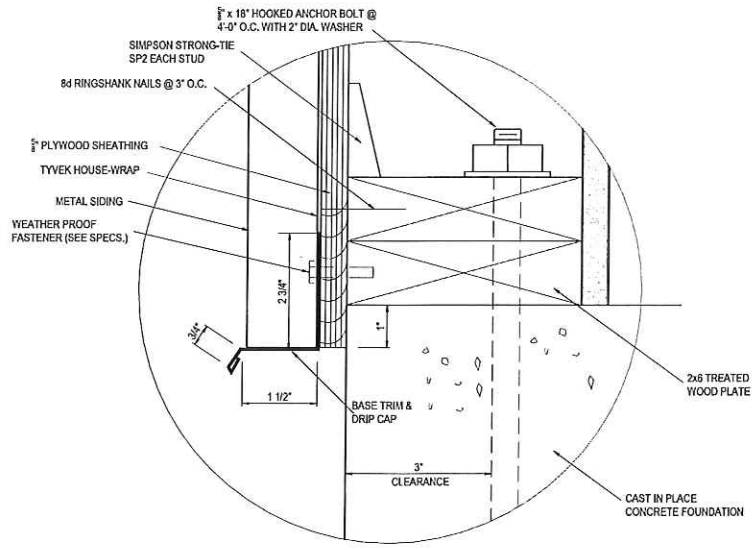
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DNCR Approval:	
Client Approval:	
File Number:	400-071
Drawing Number:	A-2
Sheet:	5 of 12



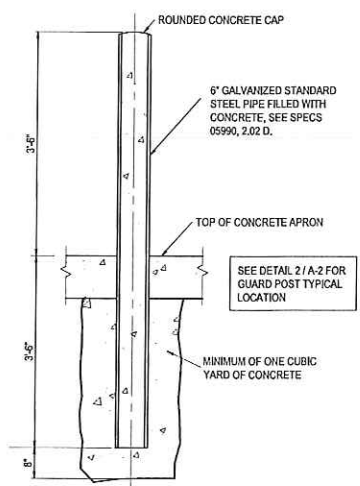
WALL SECTION
 SCALE: 1/2"=1'-0"
 SEMIHEATED BAY



ENLARGED DOOR DETAIL
 SCALE: 6"=1'-0"

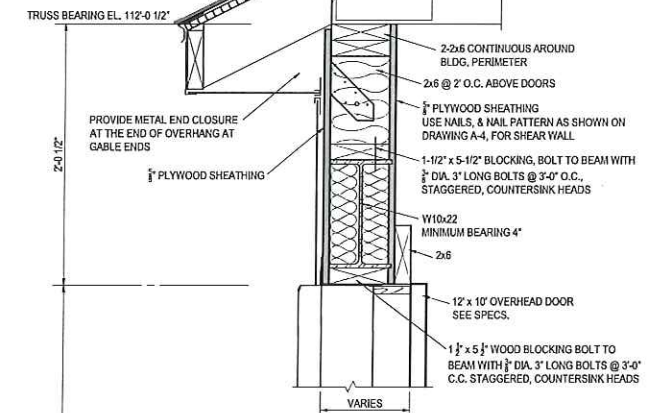


ENLARGED BASE DETAIL
 SCALE: 6"=1'-0"

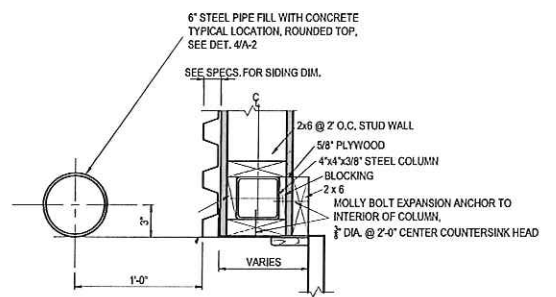


GUARD POST DETAIL
 SCALE: 3/4"=1'-0"

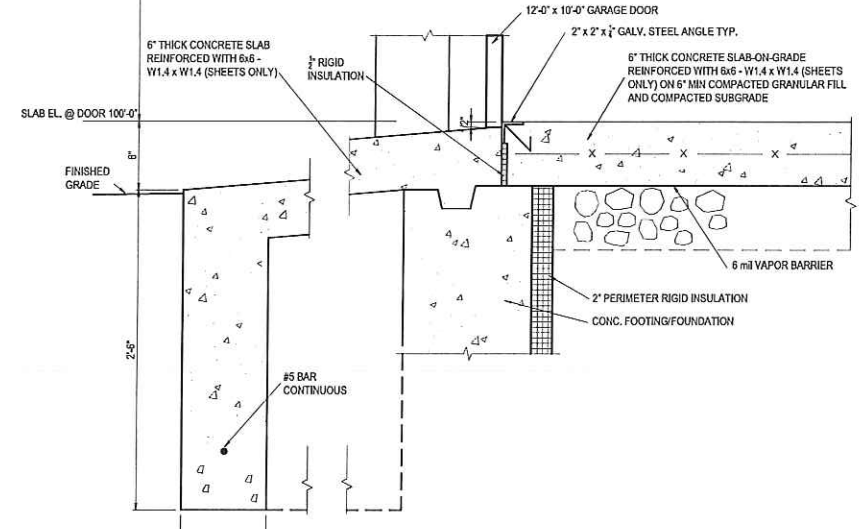
NOTE:
 INSTALL 6" GUTTERS AT NORTH & SOUTH WALLS, SEE SPECS 07600 AND FLOOR PLAN FOR DOWN SPOUTS.



HEAD DETAIL
 SCALE: 1/2"=1'-0"
 TYPICAL ALL BAYS

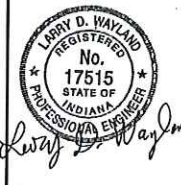


JAMB DETAIL
 SCALE: 1/2"=1'-0"
 SEMIHEATED BAY



SILL DETAIL
 SCALE: 1/2"=1'-0"
 UN-HEATED BAY

OVERHEAD DOOR DETAILS
 SCALE: 1/2"=1'-0"



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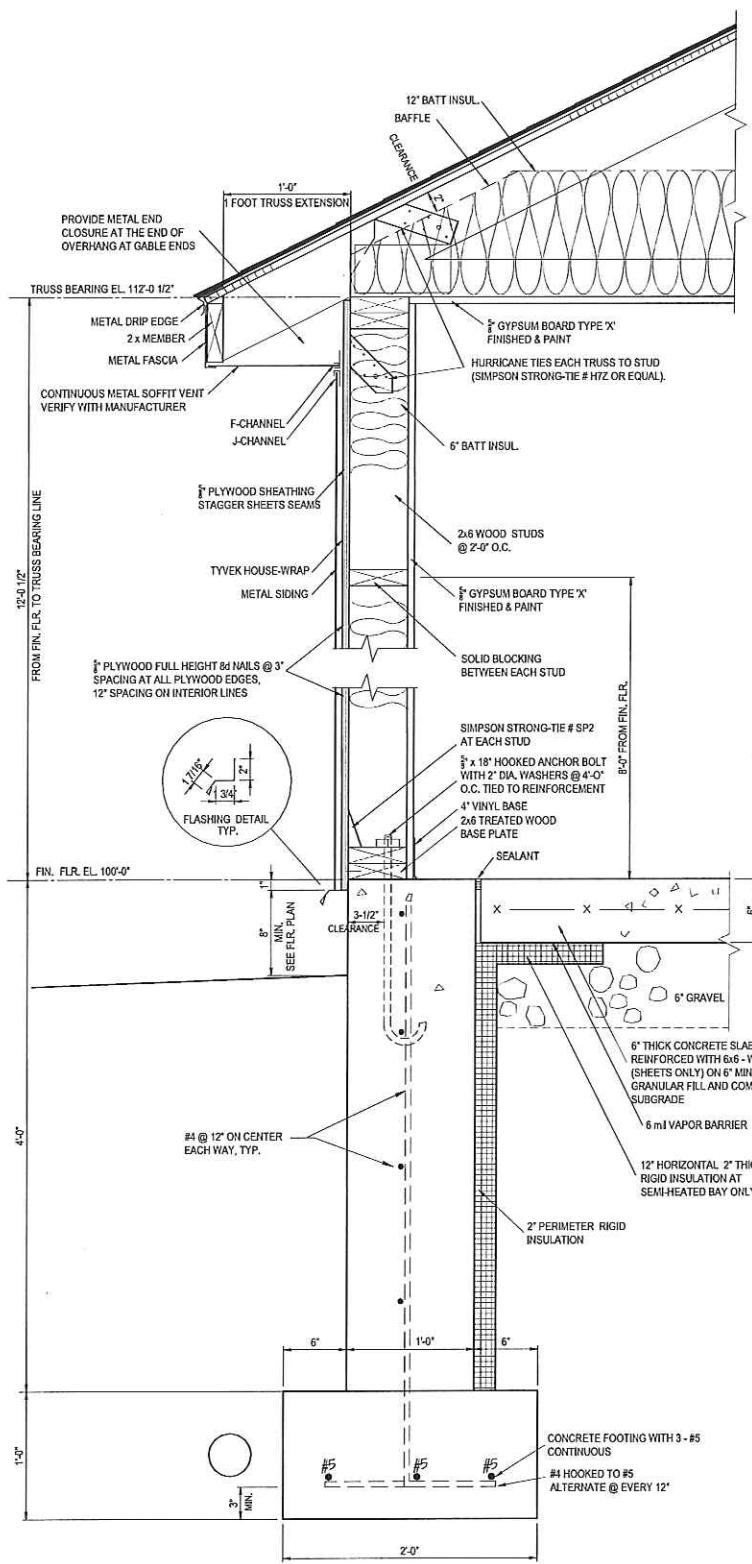
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File Number: 400-071

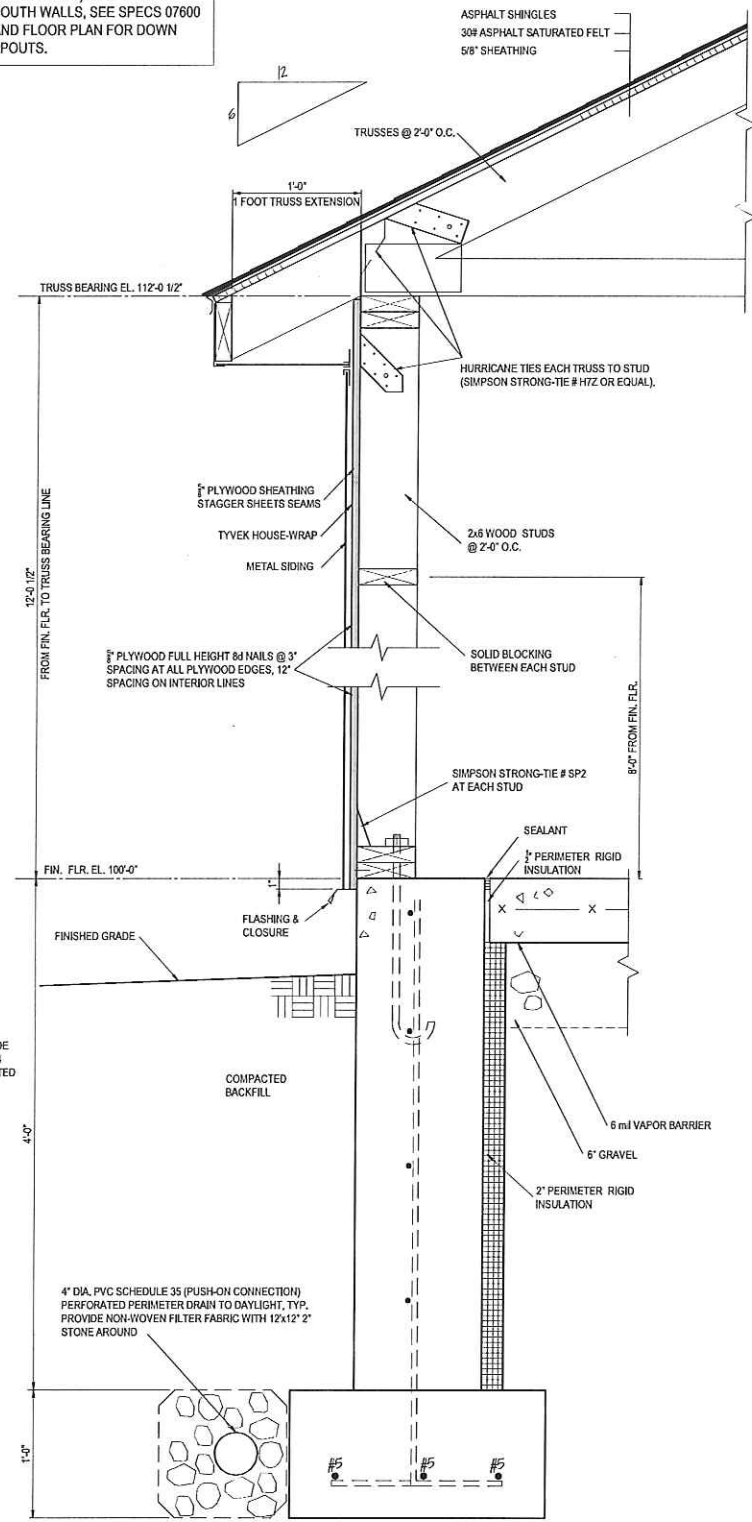
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Sheet: 6 of 12

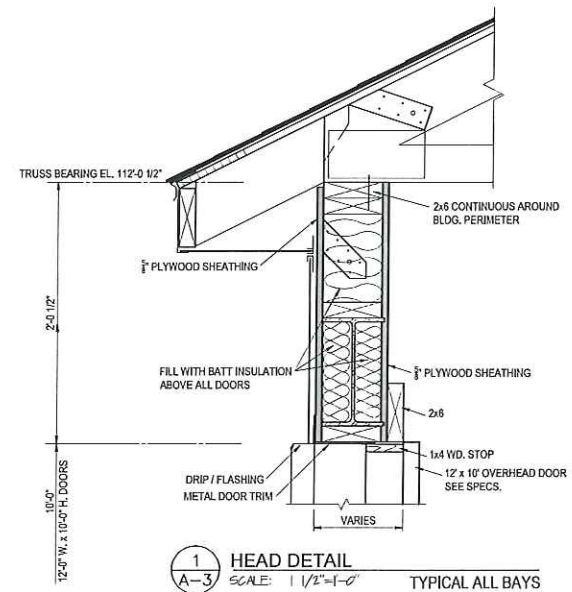
NOTE:
 INSTALL 6" GUTTERS (NOT SHOWN ON SECTIONS) AT NORTH & SOUTH WALLS, SEE SPECS 07600 AND FLOOR PLAN FOR DOWN SPOUTS.



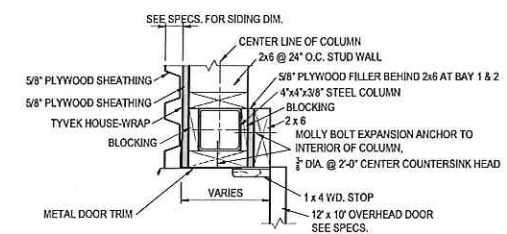
A
 WALL SECTION
 SCALE: 1/2" = 1'-0"
 SEMI-HEATED



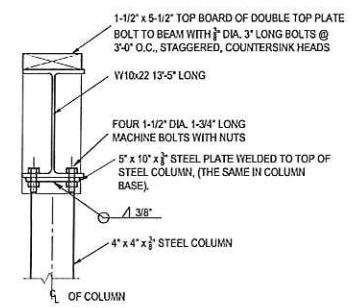
B
 WALL SECTION
 SCALE: 1/2" = 1'-0"
 UN-HEATED



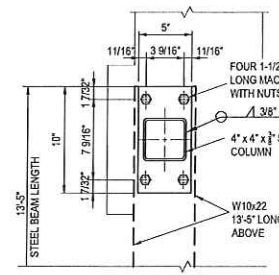
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 HEAD DETAIL
 SCALE: 1/2" = 1'-0"
 TYPICAL ALL BAYS



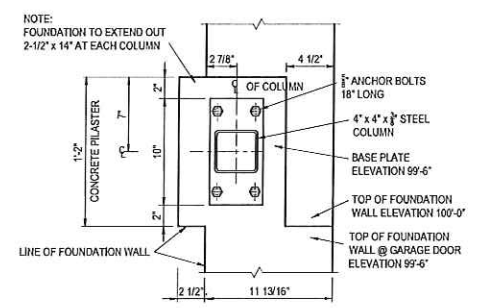
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 JAMB DETAIL
 SCALE: 1/2" = 1'-0"
 UNHEATED BAY



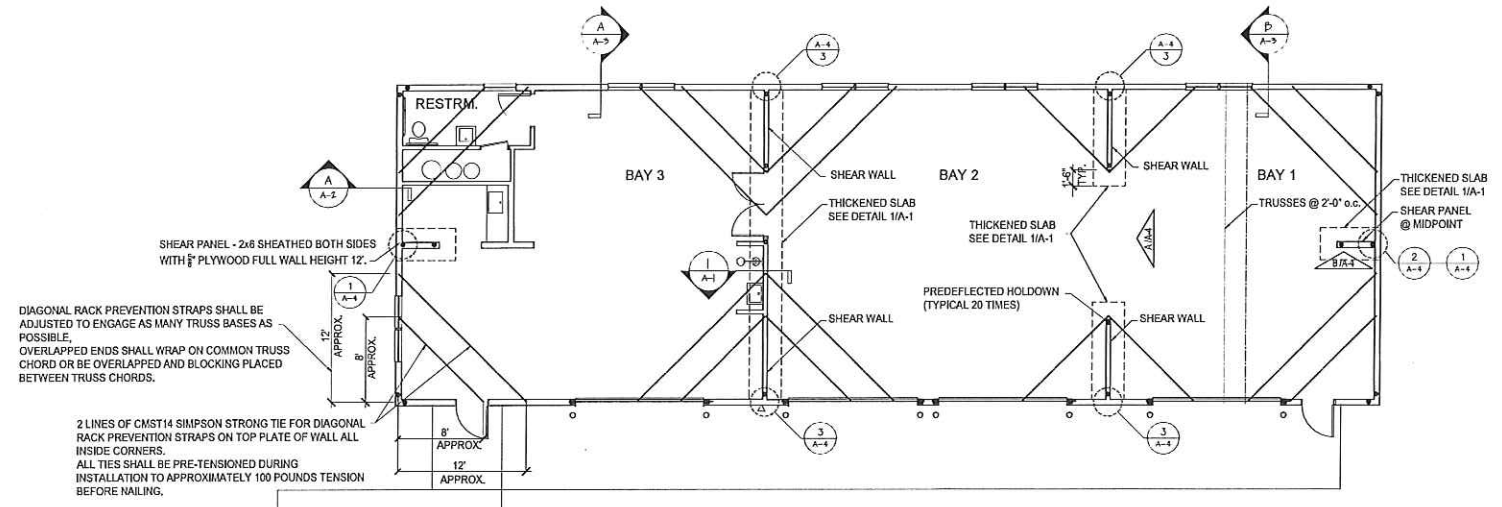
3
 STEEL BEAM-COLUMN CONNECTION
 SCALE: 1/2" = 1'-0"
 TYPICAL



4
 STEEL BEAM-COLUMN CONNECTION
 SCALE: 1/2" = 1'-0"
 TYPICAL



5
 STEEL COLUMN-FOUNDATION CONNECTION
 SCALE: 1/2" = 1'-0"
 TYPICAL

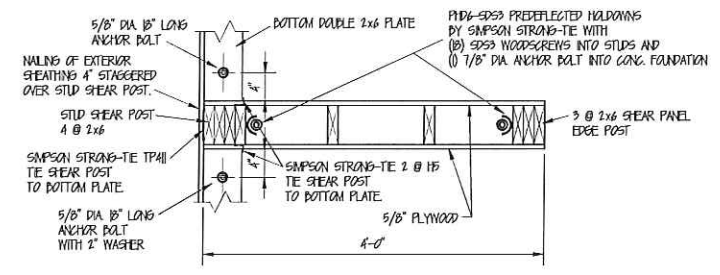


DIAGONAL RACK PREVENTION STRAPS SHALL BE ADJUSTED TO ENGAGE AS MANY TRUSS BASES AS POSSIBLE. OVERLAPPED ENDS SHALL WRAP ON COMMON TRUSS CHORD OR BE OVERLAPPED AND BLOCKING PLACED BETWEEN TRUSS CHORDS.

2 LINES OF CMST14 SIMPSON STRONG-TIE FOR DIAGONAL RACK PREVENTION STRAPS ON TOP PLATE OF WALL ALL INSIDE CORNERS. ALL TIES SHALL BE PRE-TENSIONED DURING INSTALLATION TO APPROXIMATELY 100 POUNDS TENSION BEFORE NAILING.

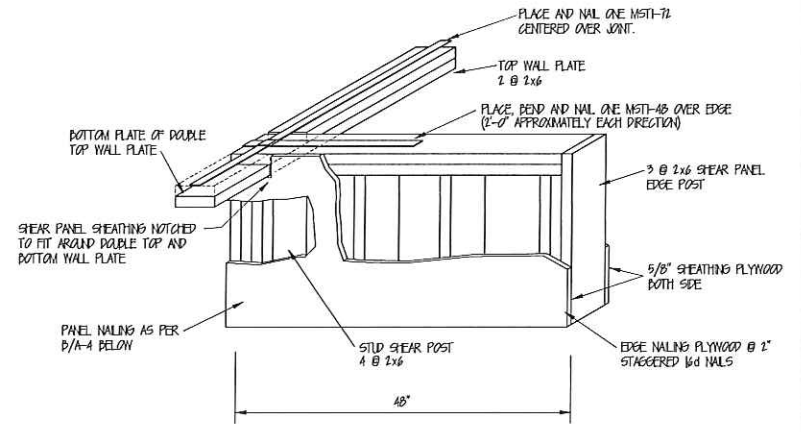
SHEAR WALLS & PANELS PLAN

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



SHEAR PANEL DETAIL 1

NT.S.

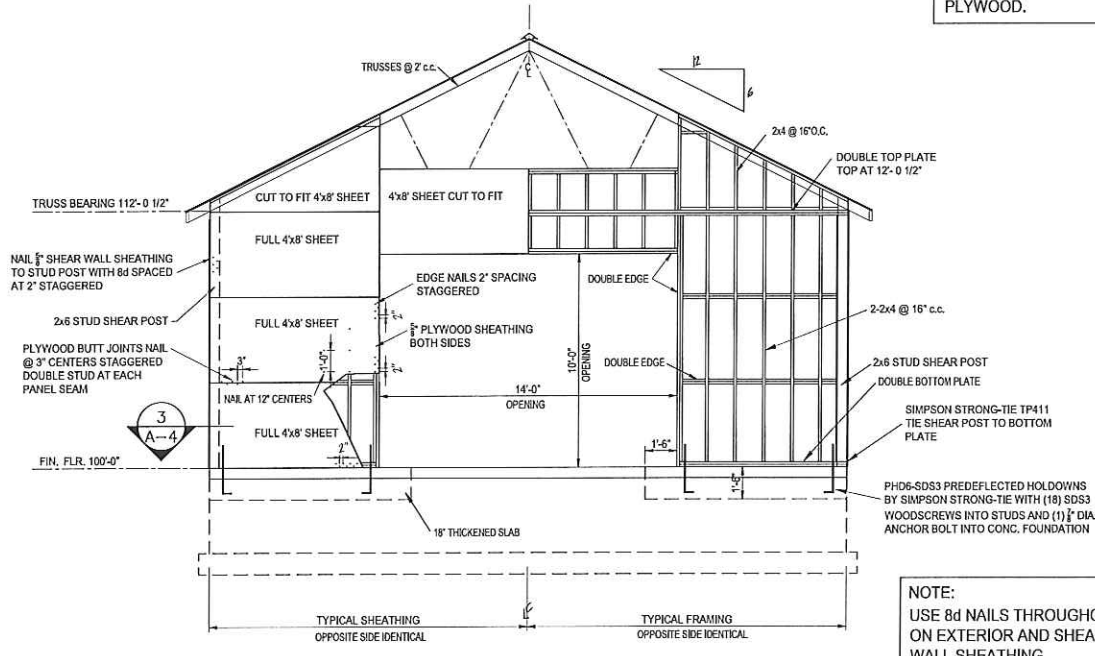


SHEAR PANEL DETAIL 2

NT.S.

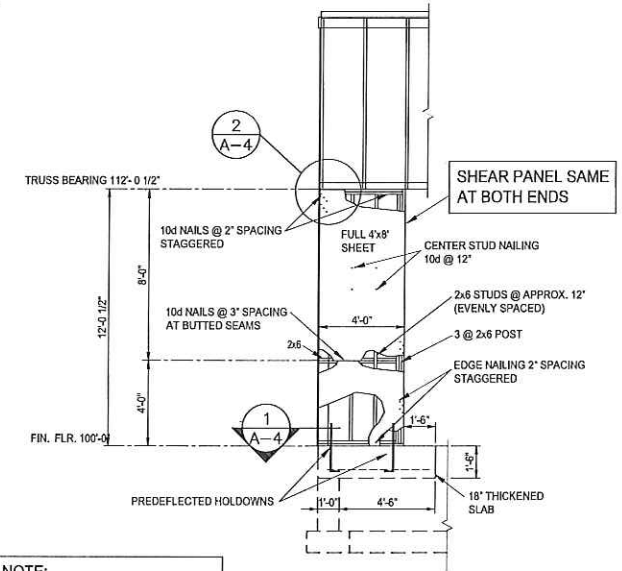


NOTE:
ORIENTED STRAND BOARD (OSB) IS ACCEPTABLE FOR ROOF DECKING ONLY. ALL VERTICAL SURFACES SHALL BE PLYWOOD.



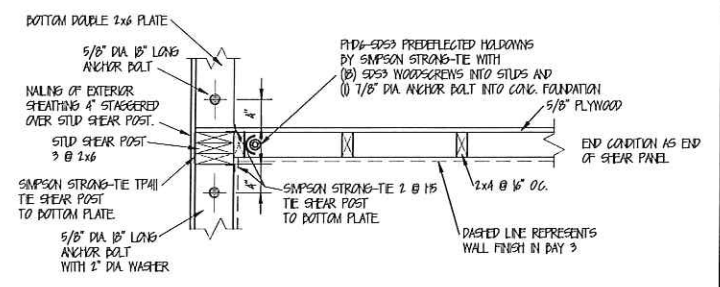
SHEAR WALL ELEVATION

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



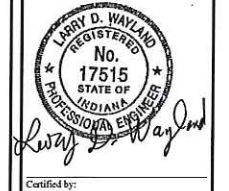
SHEAR PANEL ELEVATION

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



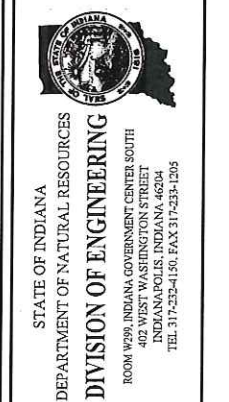
SHEAR WALL DETAIL 3

NT.S.

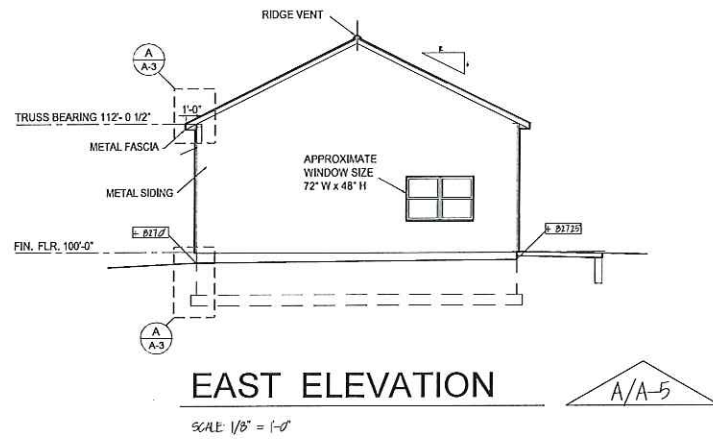


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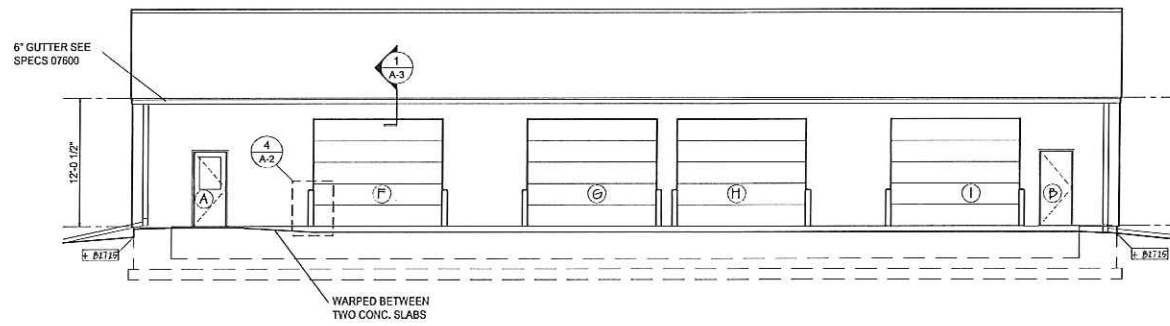


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Sheet:	7 of 12



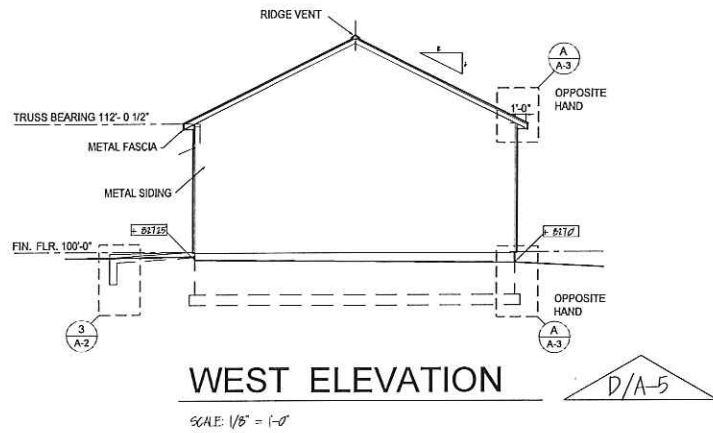
EAST ELEVATION

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



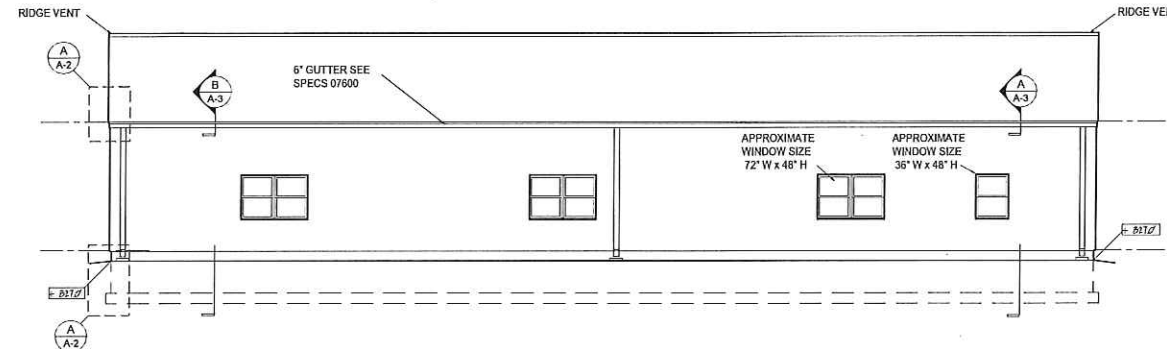
NORTH ELEVATION

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



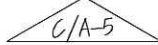
WEST ELEVATION

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



SOUTH ELEVATION

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



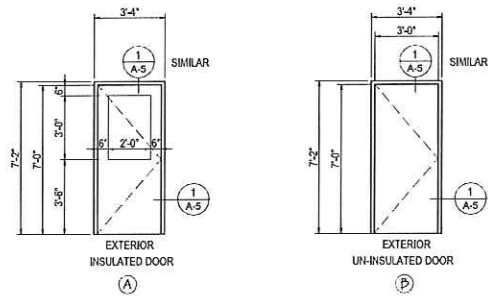
GENERAL NOTE:

1. WINDOWS (SEE SPECS 08513); SIMILAR TO VISION 2500 SERIES SINGLE-HUNG AS MANUFACTURED BY WEATHER SHIELD INC. SINGLE HUNG UNIT (3046), U = 0.28; TWIN SINGLE HUNG UNIT: (2-3046), U = 0.28
2. GARAGE DOOR (SEE SPECS 08361) SIMILAR TO HASS-THERM CHT-732 AS MANUFACTURED BY ROLL-LITE DOOR CORPORATION; SIZE 12'-0" W x 10'-0" H; MINIMUM R = 14.86
3. PEDESTRIAN DOOR (SEE SPECS 08110); SIMILAR TO CECO CORPORATION "IMPERIAL", POLYURETHANE INSULATED CORE R = 14.8; SIZE 3'-0" x 7'-0"; GLAZING SIZE 2'-0" x 3'-0" R = 2.4



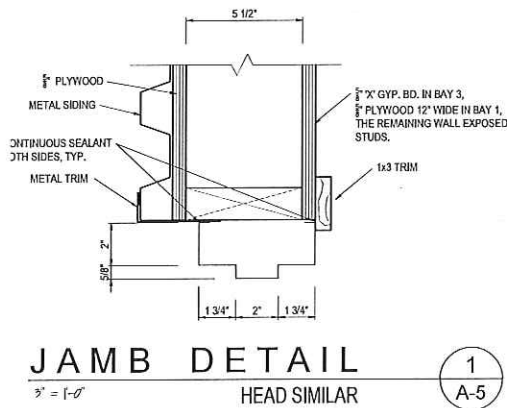
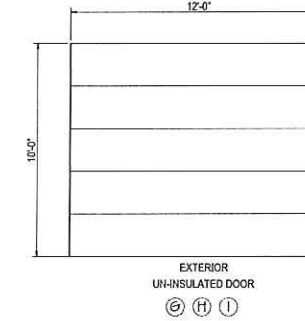
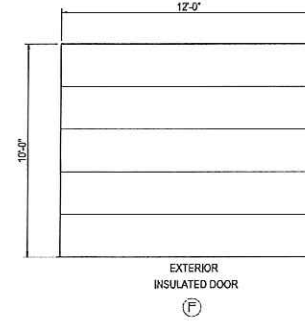
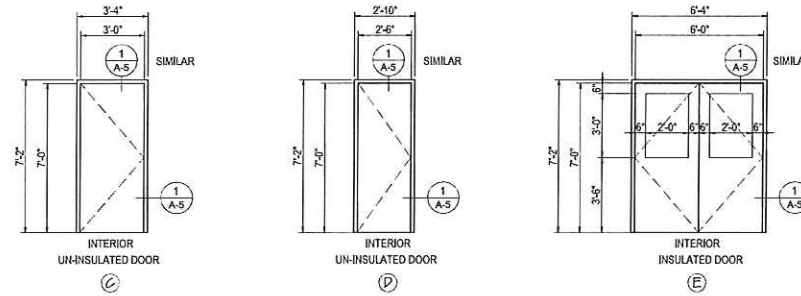
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VALPARAISO, INDIANA 46383

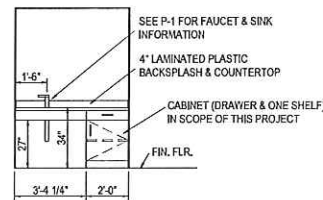


DOOR SCHEDULE

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

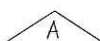


JAMB DETAIL
3" = 1'-0" HEAD SIMILAR



ELEVATION

1/4" = 1'-0"



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TEL: 317-253-1150, FAX: 317-253-1205

Project Number:	E160010
Requisition Number:	
Designer:	L.W.B.D.
Drawing Date:	09-13-17
Drafter:	B.D.
Drawing Scale:	AS NOTED
DNCR Approval:	
Client Approval:	
File Number:	400-071
Drawing Number:	A-5
Sheet:	8 of 12



Certified by:

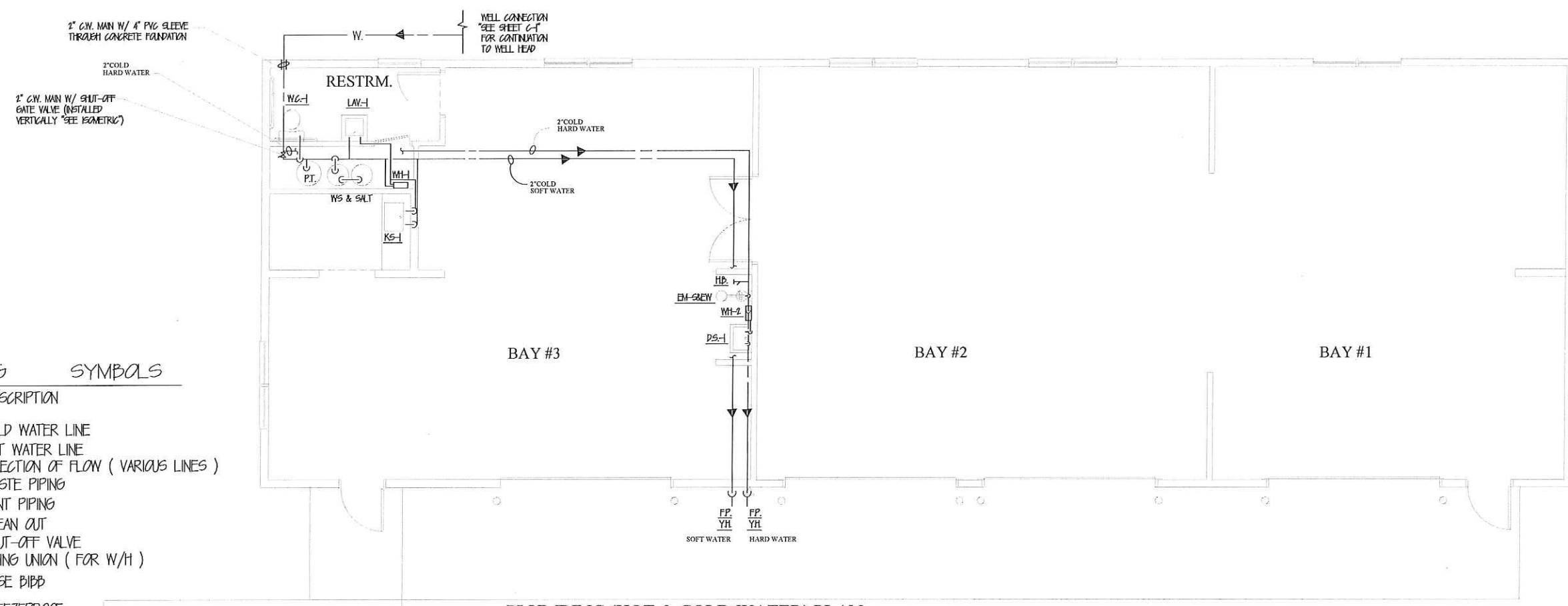
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Revisions:

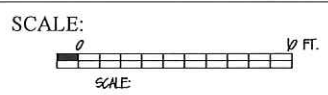
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 Requisition Number: _____ Requisition# _____
 Designer: RGP Drawing Date: 9/13/17
 Drafter: MAC Drawing Scale: AS NOTED
 DNR Approval: _____
 Client Approval: _____
 File Number: 400-071
 Drawing Number: P-1
 Sheet: 9 of 12



PLUMBING SYMBOLS

MARK	DESCRIPTION
---	COLD WATER LINE
---	HOT WATER LINE
→	DIRECTION OF FLOW (VARIOUS LINES)
---	WASTE PIPING
---	VENT PIPING
CO. ---	CLEAN OUT
⊗	SHUT-OFF VALVE
⊕	PIPING UNION (FOR W/H)
⊥ HB	HOSE BIBB
FP-YH	FREEZEPROOF YARD HYDRANT

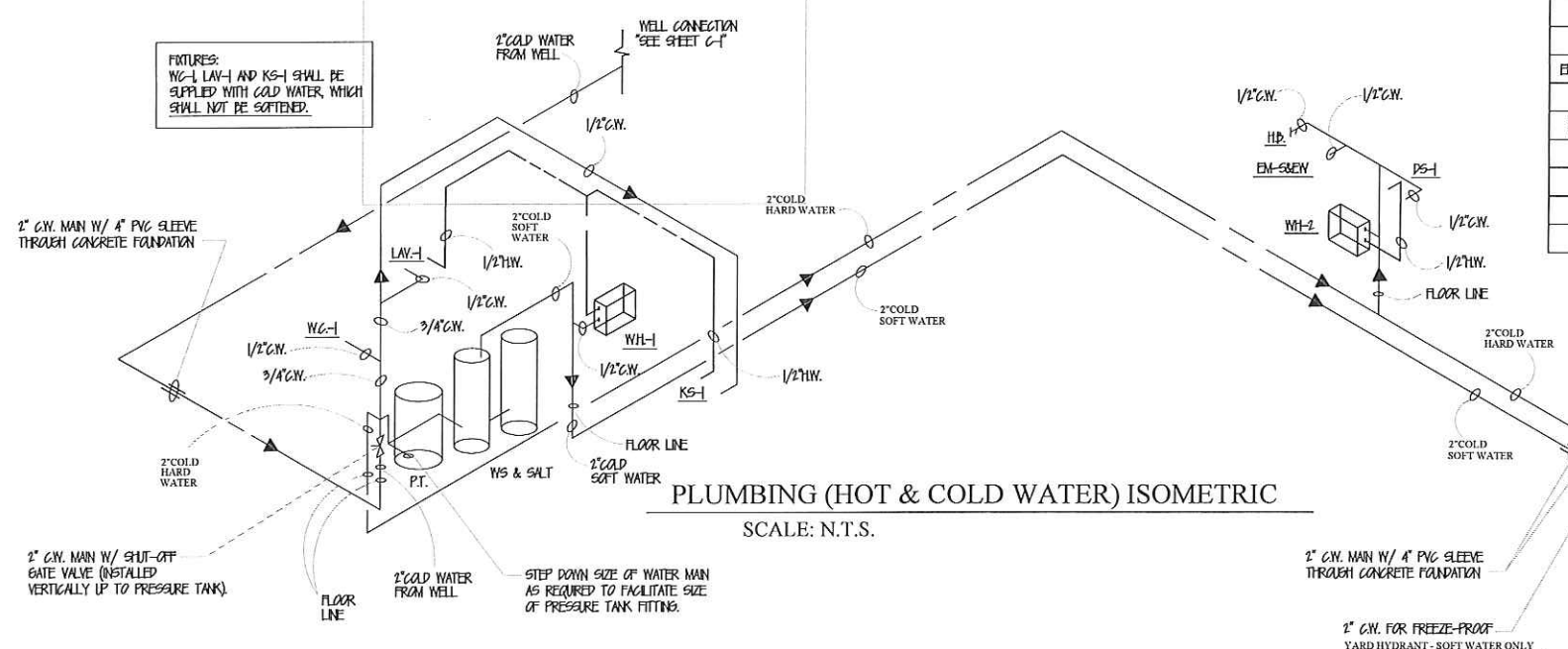
PLUMBING (HOT & COLD WATER) PLAN



PLUMBING FIXTURE SCHEDULE

MARK	VENDOR / MOD. NO.	DESCRIPTION	NOTES
WC-1	TOTO / MOD. C553A-L	WATER CLOSET W/ LEFT HAND LEVER AND OPEN FRONT COMMERCIAL SEAT - 19" AFF. TOP OF SEAT	1.
LAV-1	AMERICAN STANDARD / MOD. OPLA02A	RESTROOM LAVATORY	2.
KS-1	ELKAY / MOD. S-483-L (LEFT HAND)	SINK SINGLE BOWL W/ SINGLE DRANDBOARD - FITS 48" DEGE CABINET	3.
DS-1	CECO / MOD. 885	DEEP SINK - CAST IRON PORCELAIN ENAMELED	5.
WH-1	CHROMATE MOD.# ER-40	ELECTRIC WATER HEATER (POINT-OF-USE) - 1P-50 AMP - 3600 WATTS	6.
WH-2	CHROMATE MOD.# ER-40	ELECTRIC WATER HEATER (POINT-OF-USE) - 1P-50 AMP - 3600 WATTS	7.
EM-SHOW	HANS / MOD. 83333C	EMERGENCY SHOWER AND EYE WASH	
HB	WOODFORD / 24 - INTERIOR	INTERIOR HOSE BIBB	
FP-YH	WOODFORD / U600 - EXTERIOR	EXTERIOR "FREEZELESS" - YARD HYDRANT	
WS	KINETICO / MOD. CP 216	WATER SOFTENER	
P.T.	WELL-RITE / MOD.#WR-100	PRESSURE TANK - WELL DIAPHRAGM	4.
FD	JR SMITH / MOD.#BOAS	FLOOR DRAIN WITH CLEAN OUT	

- NOTES:**
- INSTALL ELONGATED OPEN FRONT TOILET SEAT: TOTO MOD. C553A OR APPROVED EQUAL.
 - INSTALL FAUCETS & WRIST BLADE HANDLES AMERICAN STANDARD MOD. #550110 OR APPROVED EQUAL.
 - INSTALL FAUCETS WITH 5" WRIST BLADE HANDLES ELKAY MOD. LK-232-5-BH-5 WITH H&C WATER HOLES @ 8" ON CENTER.
 - CONNECT WITH ONE INCH (1") BLUE POLY PIPE.
 - SUPPLY DEEP SINK W/ WRIST BLADE HANDLES AMERICAN STANDARD MOD. 8345101 OR APPROVED EQUAL.
 - RESTROOM WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 110 F. WITH MIN. #8 WIRE.
 - UTILITY/SHOP SINK WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 120 F. WITH MIN. #8 WIRE.



PLUMBING (HOT & COLD WATER) ISOMETRIC
 SCALE: N.T.S.



Certified by:

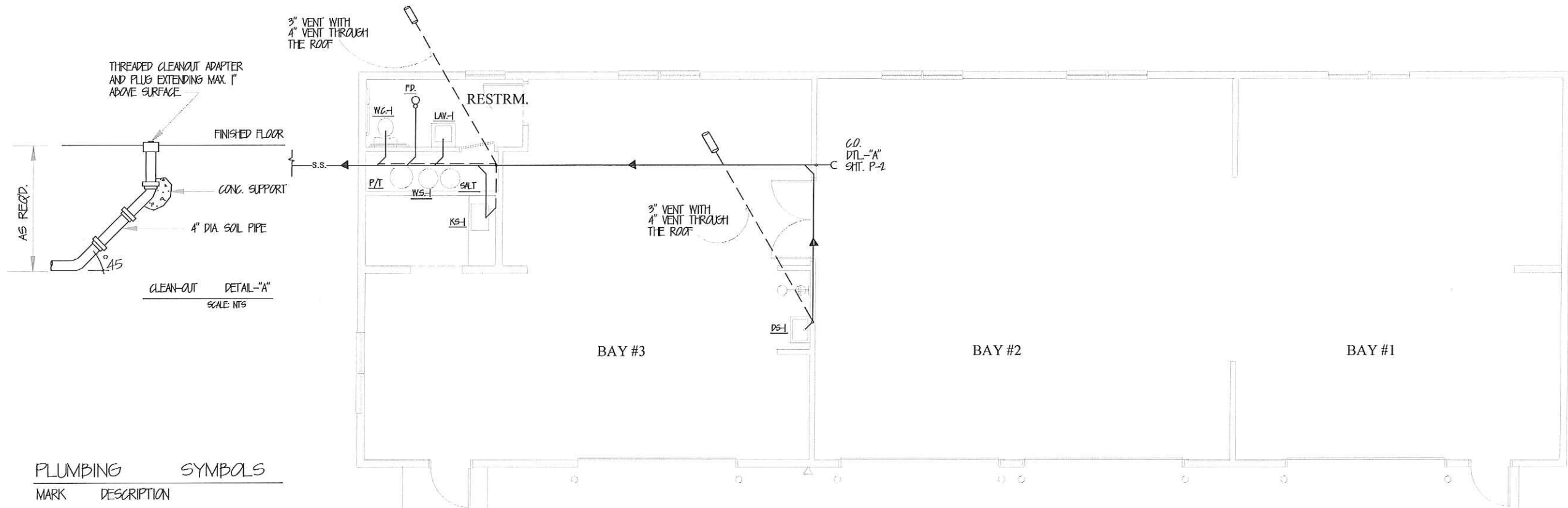
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Revision:

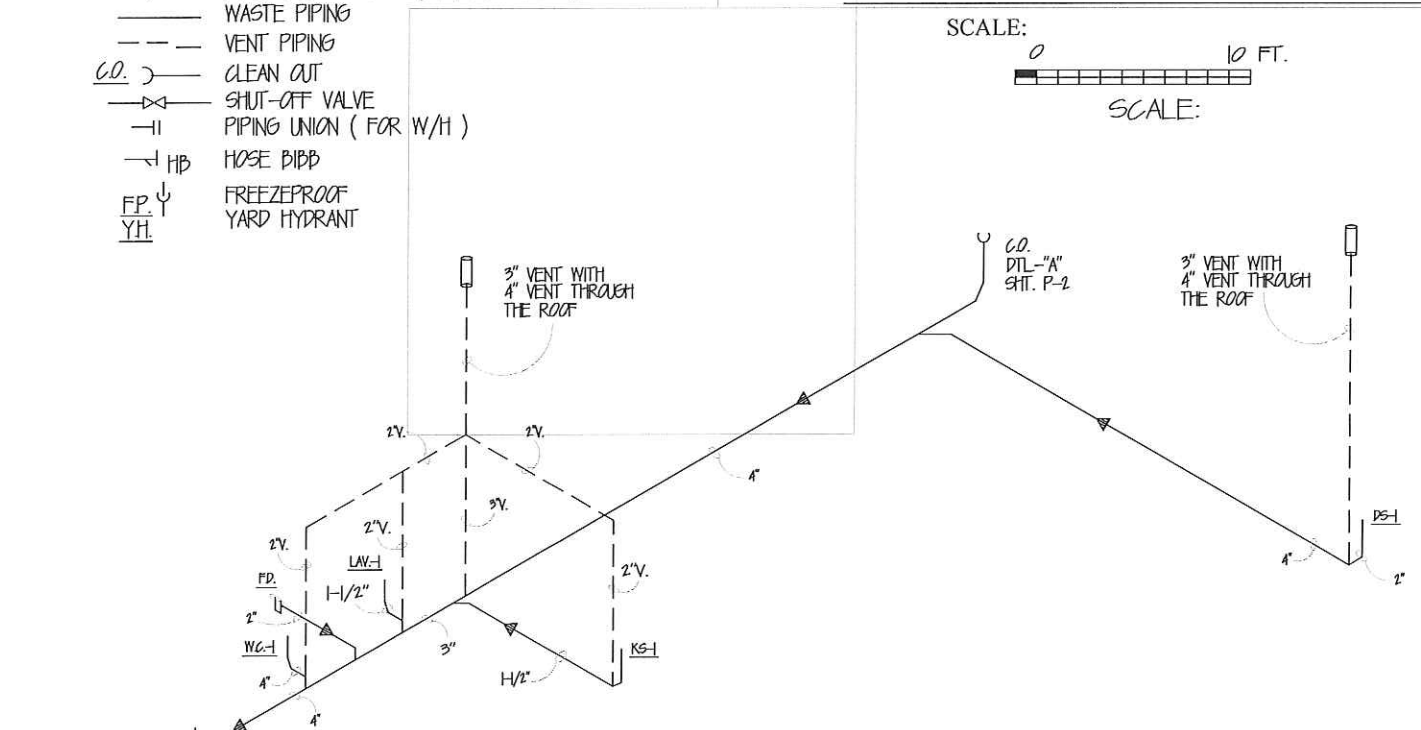
Project Number: Project#
 Requisition Number: Requisition#
 Designer: RGP Drawing Date: 9/13/17
 Drafter: MAC Drawing Scale: AS NOTED
 DNR Approval:
 Client Approval:
 File Number: 400-071
 Drawing Number: P-2
 Sheet: 10 of 12



PLUMBING SYMBOLS

- | MARK | DESCRIPTION |
|-------|-----------------------------------|
| --- | COLD WATER LINE |
| --- | HOT WATER LINE |
| ← | DIRECTION OF FLOW (VARIOUS LINES) |
| --- | WASTE PIPING |
| --- | VENT PIPING |
| CO.) | CLEAN OUT |
| ⊗ | SHUT-OFF VALVE |
| — — | PIPING UNION (FOR W/H) |
| — H | HOSE BIBB |
| FP. ↓ | FREEZEPROOF YARD HYDRANT |
| YH. ↓ | YARD HYDRANT |

PLUMBING - SANITARY SEWER PLAN



PLUMBING (SANITARY SEWER LINES) ISOMETRIC

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

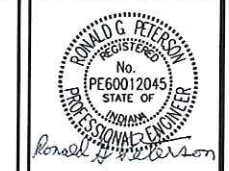
MARK	VENDOR / MOD. NO.	DESCRIPTION	NOTES
W6-1	TOTO / MOD. CST46CE-L	WATER CLOSET W/ LEFT HAND LEVER AND OPEN FRONT COMMERCIAL SEAT - 17" AFF. TOP OF SEAT	1.
LAV-1	AMERICAN STANDARD / MOD. Q1A01A	RESTROOM LAVATORY	2.
KS-1	ELKAY / MOD. 5-489-L (LEFT HAND)	SINK: SINGLE BOWL W/ SINGLE DRANBOARD - FITS 48" DEEP CABINET	3.
PS-1	CECO / MOD. B65	DEEP SINK - CAST IRON PORCELAIN ENAMELED	5.
WH-1	CHROMAMITE MOD.# SR-40	ELECTRIC WATER HEATER (POINT-OF-USE) - 1P-50 AMP - 3600 WATTS	6.
WH-2	CHROMAMITE MOD.# SR-40	ELECTRIC WATER HEATER (POINT-OF-USE) - 1P-50 AMP - 3600 WATTS	7.
EH-SLEW	HAYS / MOD. B3331C	EMERGENCY SHOWER AND EYE WASH	
HB	WOODFORD / 2A - INTERIOR	INTERIOR HOSE BIBB	
FP-YH	WOODFORD / W000 - EXTERIOR	EXTERIOR "FREEZELESS" - YARD HYDRANT	
WS	KINETICO / MOD. CP 24	WATER SOFTENER	
P.I.	WELL-RITE / MOD.#WR-100	PRESSURE TANK - WELL DIFFERENTIAL	4.
FP.	JR SMITH / MOD.#1045	FLOOR DRAIN WITH CLEAN OUT	

NOTES:

- INSTALL ELONGATED OPEN FRONT TOILET SEAT: TOTO MOD. SC59A OR APPROVED EQUAL
- INSTALL FAUCETS & WRIST BLADE HANDLES AMERICAN STANDARD MOD. #50110 OR APPROVED EQUAL
- INSTALL FAUCETS WITH 5" WRIST BLADE HANDLES ELKAY MOD. LK-232-5-BH-5 WITH H&C WATER HOLES @ 8" ON CENTER
- CONNECT WITH ONE INCH (1") BLUE POLY PIPE
- SUPPLY DEEP SINK W/ WRIST BLADE HANDLES AMERICAN STANDARD MOD. B345101 OR APPROVED EQUAL
- RESTROOM WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 110 F. WITH MIN. #8 WIRE
- UTILITY/MOP SINK WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 120 F. WITH MIN. #8 WIRE

PLUMBING NOTES:

- ALL WORK SHALL CONFORM TO APPLICABLE STANDARDS INCLUDING THE LATEST EDITION OF THE INDIANA MECHANICAL CODE AND THE INDIANA PLUMBING CODE.
- ALL PIPING MATERIAL (WATER, DRAINAGE, VENT AND GAS) SHALL CONFORM TO THE ASTM STANDARDS REQUIRED BY THE CODE AND LIMITED TO THE MATERIALS APPROVED IN THE SPECIFICATIONS.
- ALL PIPING JOINTS AND CONNECTIONS SHALL CONFORM TO THE MANDATORY REFERENCED STANDARDS LISTED IN THE LATEST EDITION OF THE INDIANA PLUMBING CODE.
- ALL PIPING SHALL BE THOROUGHLY TESTED PRIOR TO BURIAL OR CONCEALMENT.
- STERILIZE PIPING ACCORDING TO THE REQUIREMENTS OF THE INDIANA DEPARTMENT OF HEALTH.

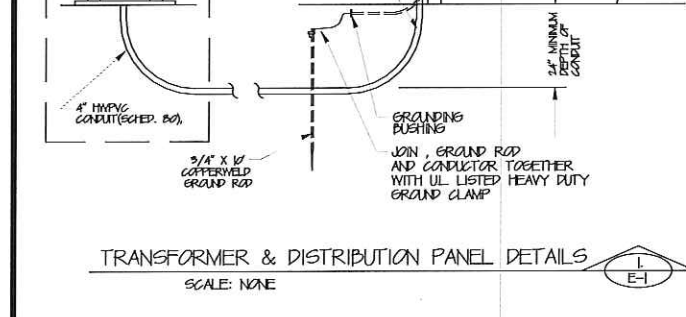
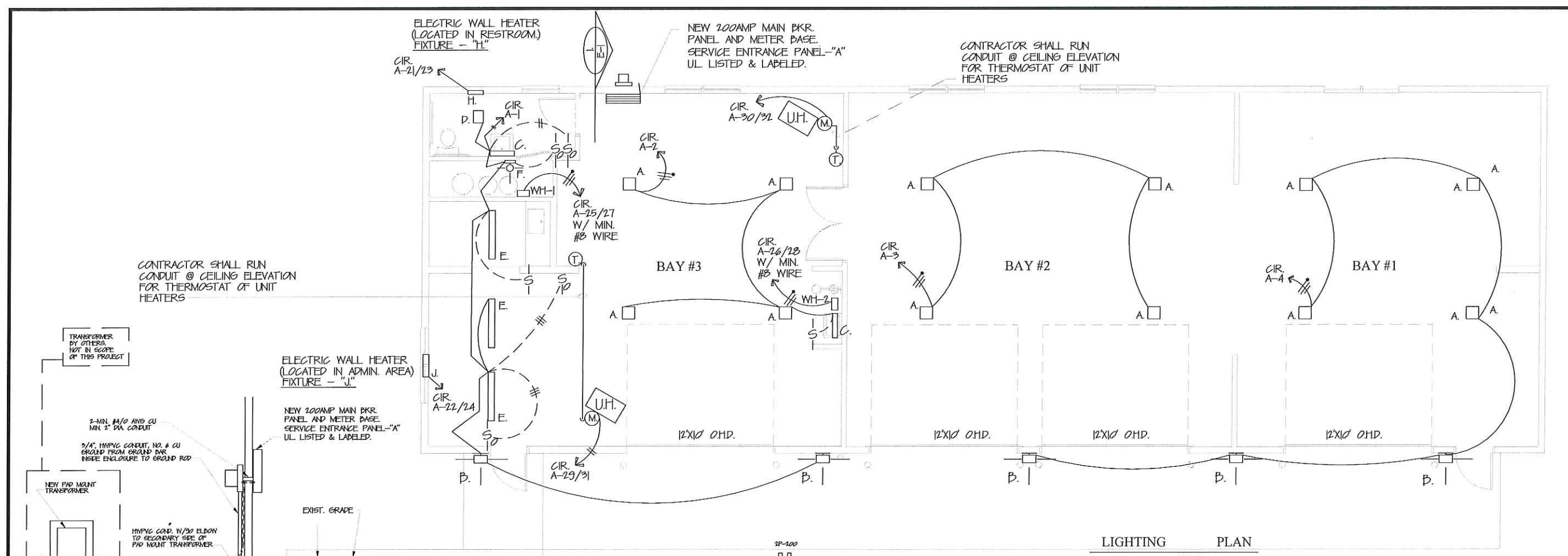


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Project Number: _____
 Requisition Number: _____
 Requisition# _____
 Designer: RGP Drawing Date: 9/13/17
 Drafter: MAC Drawing Scale: AS NOTED
 DNR Approval: _____
 Client Approval: _____
 File Number: 400-071
 Drawing Number: E-1
 Sheet 11 of 12



NEW 200AMP ELECTRICAL PANEL-"A"
 SCALE: NTS.

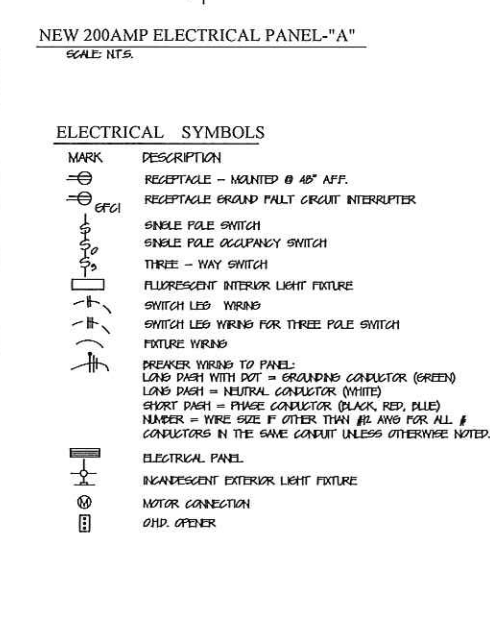
1	P-10	P-10	2	LIGHTS STORAGE
2	P-10	P-10	3	LIGHTS SHOP AREA
3	P-10	P-10	4	RECEPT. STOR. AREAS
4	P-10	P-10	5	RECEPT. STOR. AREAS
5	P-10	P-10	6	OND. OPER. DAY-1
6	P-10	P-10	7	OND. OPER. DAY-2
7	P-10	P-10	8	OND. OPER. DAY-3
8	P-10	P-10	9	OND. OPER. DAY-4
9	P-10	P-10	10	SPARE
10	P-10	P-10	11	SPARE
11	P-10	P-10	12	SPARE
12	P-10	P-10	13	SPARE
13	P-10	P-10	14	SPARE
14	P-10	P-10	15	SPARE
15	P-10	P-10	16	SPARE
16	P-10	P-10	17	SPARE
17	P-10	P-10	18	SPARE
18	P-10	P-10	19	SPARE
19	P-10	P-10	20	SPARE
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22	P-10	P-10	23	SPARE
23	P-10	P-10	24	SPARE
24	P-10	P-10	25	SPARE
25	P-10	P-10	26	SPARE
26	P-10	P-10	27	SPARE
27	P-10	P-10	28	SPARE
28	P-10	P-10	29	SPARE
29	P-10	P-10	30	SPARE

FIXTURE SCHEDULE

MARK	VENDOR / MOD. #	LAMPS	SIZE	MOUNTING	DESCRIPTION	NOTES
A	FREE LED MOD # PFG-304-304-304-304-304-304	40 LED	18"X18"	GLD/TRUSS MTP.	LED INTERIOR/EXTERIOR - M. OPTION = MULTI-LEVEL MOTION SENSOR DETECTION	1, 2, & 3
B	HERBELL MOD # POND-304-304-304-304-304-304	10 LED	18"X18"	EXTERIOR WALL	LED W/ ACTION SENSOR @ SERVICE DOORS	1 & 2
C	COLUMBA MOD # CVM-304-304-304-304-304-304	LED	2'-0"	WALL	LED WALL MOUNTED @ RESTROOM SINK	1 & 2
D	NITONE MOD # NTRF	40W REAR.	4" DIA	CEILING	LED CEILING EXHAUST FAN W/ FLOOR LIGHT	1, 2, 3, & 4
E	LITPARA MOD # MLVA-40-304	LED	41X55X50"	CEILING	LED CEILING MOUNTED @ BREAK RM & KITCHEN	1, 2, & 12
F	LENTON MOD # R304-C / ITEM RECAT	40W	45 DIA	WALL	LAMP HOLDER @ PIPE CHASE	1 & 2
WH-1	CHROMATE MOD # M-40/140	1P-30AMP	Ø 6A WIRE	INTERIOR WALL	ELECTRIC POINT-OF-USE WATER HEATER @ BATH & KITCHEN - PRESET 10°F.	7
WH-2	CHROMATE MOD # M-40/140	1P-30AMP	Ø 6A WIRE	INTERIOR WALL	ELECTRIC POINT-OF-USE WATER HEATER @ UTILITY/SINK - PRESET 10°F.	8
H	QUARK MOD # LTK-304		18"X20"X5"	WALL	WALL HEATER @ RESTRM 3000 WATTS / 150W/HP	
J	QUARK MOD # LTK-304		18"X20"X5"	WALL	WALL HEATER @ ADMIN AREA 4000/2000 WATTS / 10/150W/HP	
U	QUARK MOD # MH-402		25"X27"	CEILING	ELECTRIC UNIT HEATER W/ QUARK MH THERMOSTAT	1 & 4

- FIXTURE SCHEDULE NOTES:
- ALL FIXTURES SHALL BE 120 VOLTS
 - ALL LIGHTS SHALL BE INSTALLED WITH BULBS
 - VENT TO OUTSIDE BETWEEN JOIST THROUGH WALL TO EXT. WALL CAP (NITONE MOD. #NWK-1)
 - RESTROOM LIGHT/FAN SWITCH SHALL BE SINGLE POLE OCCUPANCY SENSOR LEVITON CAT.# OSBMT OR APPROVED EQUAL
 - ALL ELECTRICAL WORK SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN
 - UNIT HEATERS SHALL BE INSTALLED WITH QUARK MH THERMOSTATS
 - RESTROOM WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 10°F. WITH MIN. #8 WIRE
 - UTILITY/SINK WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 10°F. WITH MIN. #8 WIRE
 - FIXTURE SHALL BE SUPPLIED WITH OPTION-ML "MOTION SENSOR", WHICH SHALL BE SET AT THE TIME OF INSTALLATION
 - ELECTRICAL CONTRACTOR SHALL SUPPLY/RUN 6'-0" OF ADDITIONAL WIRE AT ALL "E" FIXTURES (EXTRA LENGTH STORED AT EACH FIXTURE ABOVE CEILING)
- ELECTRICAL CONTRACTOR NOTE:
 ALL EXPOSED WIRING SHALL BE CONTAINED IN INTERMEDIATE METALLIC TUBING (IMT) OR RIGID METALLIC CONDUIT (RMC).

REF. DWG: 400-067 EAST CENTRAL STORAGE BLDG. - DATE 12/31/12



INTERIOR LIGHTING COMPLIANCE CERTIFICATE VALUES

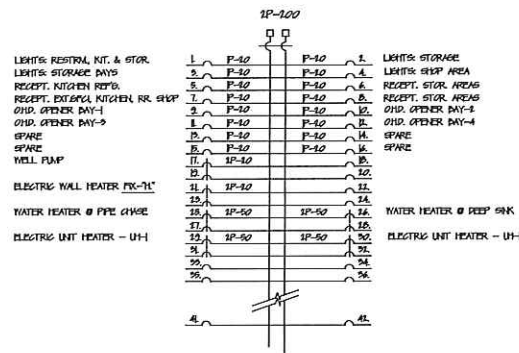
COMMON SPACE TYPE: SHOP AREA (560 SQFT.)	LAMPS/FIXTURE	NO. OF FIXTURES	FIXTURE WATTS	NO. OF FIX X WATTS PER FIX
FIX-"A" 18" SQUARE LED	40	12	17W	204W
FIX-"C" LED	1	2	17W	34W
FIX-"D" FLUORESCENT FAN-LIGHT	1	1	60	60W
FIX-"E" LED 4'-0"	2	3	40	120W
FIX-"F" INCANDESCENT LAMP HOLDER - PIPE CHASE		1	60	60W
TOTAL				478

EXTERIOR LIGHTING COMPLIANCE CERTIFICATE VALUES

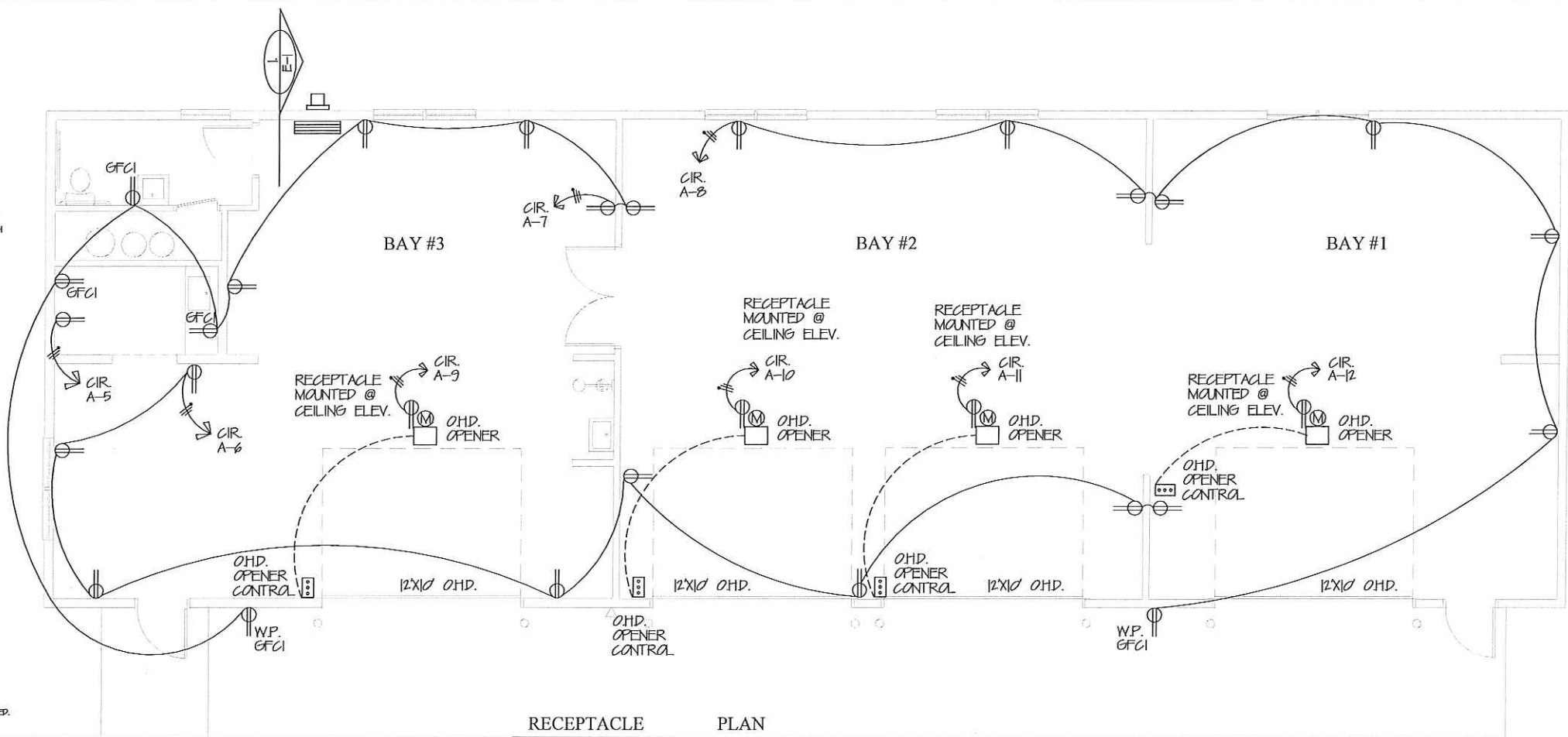
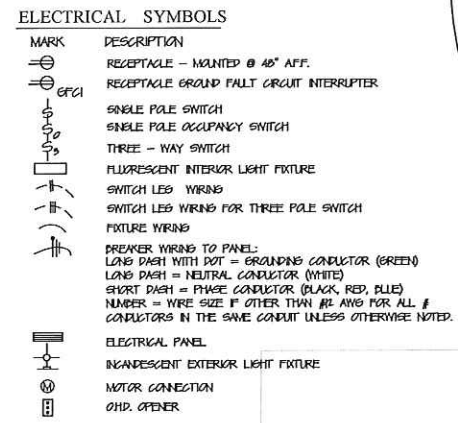
MAIN / OTHER ENTRY / EXIT	FT. WIDTH	LAMPS/FIXTURE	NO. OF FIXTURES	FIXTURE WATTS	NO. OF FIX X WATTS PER FIX
FIX-"D" LED	3'-0"	1	5	146	73

MECHANICAL COMPLIANCE CERTIFICATE VALUES

SHOP AREA KITCHENETTE, RESTRM. & PIPE CHASE	FLOOR AREA	NO. OF FIXTURES	FIXTURE WATTS
UNIT HEATER - ELECTRIC - 1KW (FIX "U")	— SQFT.	2	10 KW
RADIANT HEATER - ELECTRIC - 2KW (FIX "J")	— SQFT.	1	4000/2000
SUB-TOTAL	360 SQFT.		
RADIANT HEATER - ELECTRIC - 2KW (FIX "H" IN RESTRM.)	78 SQFT.	1	3000
WATER HEATER - ELECTRIC - 1KW (FIX "WH-1")		1	3600
WATER HEATER - ELECTRIC - 1KW (FIX "WH-2")		1	3600
TOTAL	1041 SQFT.		



NEW 200AMP ELECTRICAL PANEL "A"
SCALE NTS.



FIXTURE SCHEDULE						
MARK	VENDOR / MOD. #	LAMPS	SIZE	MOUNTING	DESCRIPTION	NOTES
A	QREE LED MOD# PFD-204-DM-DM-24-E-UL-D2-M	40 LED	18"X27"	CEL/TRUSS MTD.	LED INTERIOR/EXTERIOR - M. OPTN = MULTI-LEVEL MOTION SENSOR DETECTION	1, 2 & 3
B	HIDELL MOD# PFD-204-DM-DM-24-E-UL-D2-M	100 LED	18"X27"	EXTERIOR WALL	LED W/MOTION SENSOR @ SERVICE DOORS	1 & 2
C	COLUMBA MOD# QHD-204-DM-DM-24-E-UL-D2-M	LED	5'-0"	WALL	LED WALL MOUNTED @ RESTROOM	1 & 2
D	NUTONE MOD# T8P3	80W BEAM	4' FOOT	CEILING	CEILING EXHAUST FAN W/ FLOOR LIGHT	1, 2, 3 & 4
E	LITONIA MOD# PMLX 40 B40	LED	41/8"X57/8"	CEILING	LED CEILING MOUNTED @ BREAK RM & KITCHEN	1, 2 & 10
F	LEVITON MOD# R200M-C / ITEM R200M	80W	45 DIA	WALL	LAMP HOLDER @ PIPE CHASE	1 & 2
WH-1	CHROMATE MOD# M 40/140	2P-50AMP	Ø 6A WIRE	INTERIOR WALL	ELECTRIC POINT-OF-USE WATER HEATER @ BATH & KITCHEN - PRESET 100°F.	7
WH-2	CHROMATE MOD# M 40/140	2P-50AMP	Ø 6A WIRE	INTERIOR WALL	ELECTRIC POINT-OF-USE WATER HEATER @ UTIL/AMP SINK - PRESET 100°F.	8
H	QMARK MOD# LTR-204		14570215"	WALL	WALL HEATER @ RESTROOM 2000 WATTS / 15AMPS	
J	QMARK MOD# LTR-204		14570215"	WALL	WALL HEATER @ ADMIN AREA 4800/2400 WATTS / 20/15AMPS	
UH	QMARK MOD# MHT-102		12"X20"	CEILING	ELECTRIC UNIT HEATER W/ QMARK MH THERMOSTAT	1 & 6

FIXTURE SCHEDULE NOTES :

- ALL FIXTURES SHALL BE 120 VOLTS
- ALL LIGHTS SHALL BE INSTALLED WITH BULBS
- VENT TO OUTSIDE BETWEEN JOIST THROUGH WALL TO EXT. WALL CAP (NUTONE MOD. #MNC-Ø)
- RESTROOM LIGHT/FAN SWITCH SHALL BE SINGLE POLE OCCUPANCY SENSOR LEVITON CAT.# OSMT OR APPROVED EQUAL
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN
- UNIT HEATERS SHALL BE INSTALLED WITH QMARK MH THERMOSTATS
- RESTROOM WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 100°F. WITH MIN. ØB WIRE
- UTILITY/AMP SINK WATER HEATER TEMPERATURE SHALL BE PRE-SET TO 100°F. WITH MIN. ØB WIRE
- FIXTURE SHALL BE SUPPLIED WITH OPTI-MULTI "MOTION SENSOR", WHICH SHALL BE SET AT THE TIME OF INSTALLATION
- ELECTRICAL CONTRACTOR SHALL SUPPLY/RUN 6'-0" OF ADDITIONAL WIRE AT ALL "L" FIXTURES (EXTRA LENGTH STORED AT EACH FIXTURE ABOVE CEILING)

ELECTRICAL CONTRACTOR NOTE:

ALL EXPOSED WIRING SHALL BE CONTAINED IN INTERMEDIATE METALLIC TUBING (IMT) OR RIGID METALLIC CONDUIT (RMC).



Certified by: Ronald G. Peterson

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Revision:

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Designer: RGP Drawing Date: 9/13/17

Drafter: MAC Drawing Scale: AS NOTED

Client Approval: _____

File Number: 400-071

Drawing Number: E-2

Sheet: 12 of 12