PROPERTY OWNER:

CITY OF FRANKLIN, VIRGINIA 207 WEST SECOND AVE FRANKLIN, VIRGINIA 23851

APPLICANT/CONTRACT PURCHASER:

PINNACLE AGRICULTURE HOLDINGS, LLC P.O.BOX 1169, N. SHARPE AVE CLEVELAND, MS 38732 CONTACT: BRUCE WEST TEL: (662) 846-8677 BRUCE.WEST@SANDERS.COM

CIVIL ENGINEER:

NEEL-SCHAFFER, INC. 1022 HIGHLAND COLONY PARKWAY, STE 202 RIDGELAND, MS 39157 CONTACT: BRANDON RUT TEL: (601) 898-3358 FAX: (601) 898-8485

CONSTRUCTION MANAGER:

CENTURY CONSTRUCTION & REALTY, INC. 1062 HIGHLAND COLONY PARKWAY RIDGELAND, MS 39157 CONTACT: TALTY SHANNON TEL: (769) 300-2266 TSHANNON@CENTURYCR.COM

PROGRAM MANAGER:

JED JOHNSON
AREA MANAGER
PROVIDENCE AGRICULTURE
TEL: (785) 985-2550
JED.JOHNSON@PROVIDENCEAG.COM

PROPERTY INFO:

PROPERTY ADDRESS: BUSINESS DRIVE

(# TO BE DETERMINED ONCE PLAT IS RECORDED)

TYPE OF DEVELOPMENT: NEW CONSTRUCTION

FRANKLIN, VA 23851

PROPOSED USE: STORAGE AND DISTRIBUTION WAREHOUSE

TAX PARCEL: 155-(186)-1

PARCEL ZONING: M-2 HEAVY INDUSTRIAL

TOTAL SITE AREA: 10.00 ACRES

TOTAL DISTURBED AREA: 6.00 ACRES

PHASE 1 LAND DISTURBANCE AREA: 6.00 ACRES

TOTAL POST IMPERVIOUS AREA: 1.50 ACRES (APPROX.)

TOTAL EXISTING IMPERVIOUS AREA: 1.50 ACRES

TOTAL ADDED IMPERVIOUS AREA: 1.50 ACRES (APPROX.)

ADJACENT PARCEL ZONING:

NORTH: M-2 - HEAVY INDUSTRIAL
SOUTH: M-2 - HEAVY INDUSTRIAL
EAST: R-0 - SINGLE FAMILY RESIDENCE
WEST: M-2 - HEAVY INDUSTRIAL

MINIMUM SETBACKS:

NORTH: EQUAL TO BUILDING HEIGHT; BUT NOT LESS THAN 25' SOUTH: EQUAL TO BUILDING HEIGHT; BUT NOT LESS THAN 25' EAST: 30' WEST: 25'

BUILDING HEIGHT: OFFICE≈18.7'; WAREHOUSE≈22.2'; BULK WAREHOUSE≈44.3'

<u>BUILDING SQUARE FOOTAGE:</u> OFFICE=2,400; WAREHOUSE=24,000; BULK WAREHOUSE=8,568

NUMBER OF EMPLOYEES: 15

MINIMUM PARKING SPACES REQUIRED: 8 (1 PER 2 EMPLOYEES)

REGULAR PARKING SPACES PROVIDED: 21

HANDICAP PARKING SPACES PROVIDED: 2

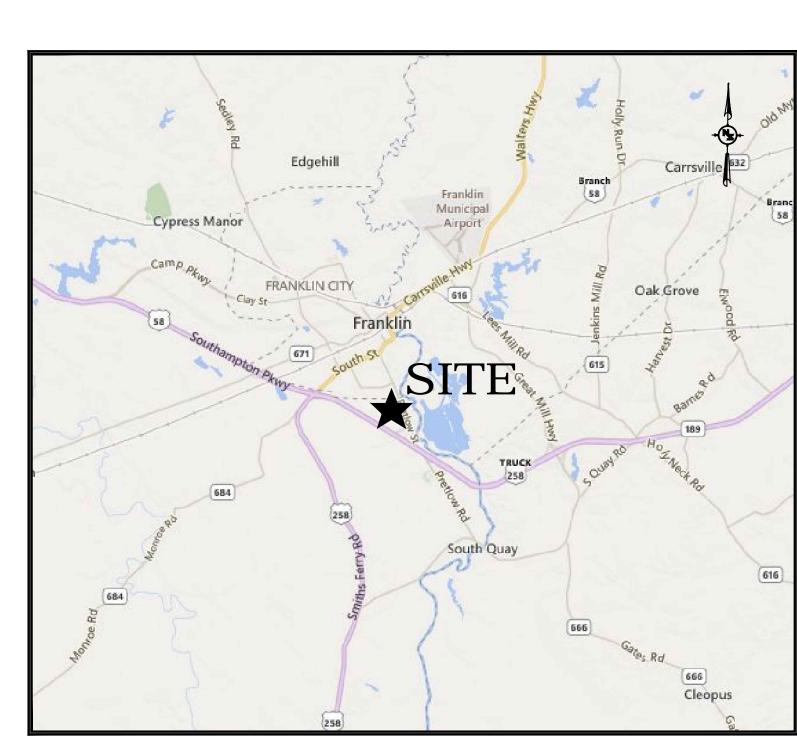
WATER & SEWER: TO BE SUPPLIED BY CITY.

FLOOD ZONE: PROPERTY DOES NOT LIE IN A FLOOD PRONE AREA PER F.I.R.M. MAP 5100600004 D DATED 09-04-02.

PHASE 1 CONSTRUCTION PLANS

FRANKLIN, VA

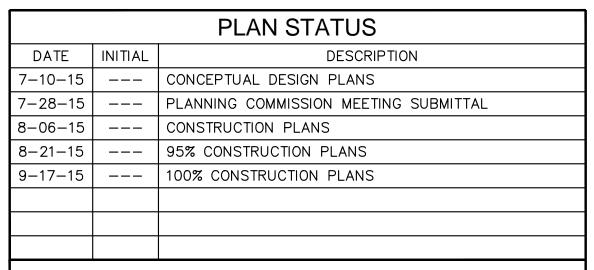
AGRICULTURAL PRODUCT SALES CENTER FRANKLIN, VA



LOCATION MAP SCALE: N.T.S.



VICINITY MAP SCALE: 1"=600'



RELEASED FOR STAKEOUT

______ FULLY APPROVED

RELEASED ONLY FOR FOLLOWING IMPROVEMENTS

NEEL-SCHAFFER, INC.

DRAWING INDEX:

T-1 TITLE SHEET
C-1 SITE PLAN (PHASE 1)
C-2 SITE COORDINATE PLAN & DETAILS
C-3 GRADING PLAN
C-4 GRADING STANDARD DETAILS

C-5 UTILITIES PLAN

C-6 UTILITIES STANDARD DETAILS
C-7 EROSION & SEDIMENT CONTROL PLAN
C-8 EROSION & SEDIMENT CONTROL NOTES

C-9 LANDSCAPING PLAN



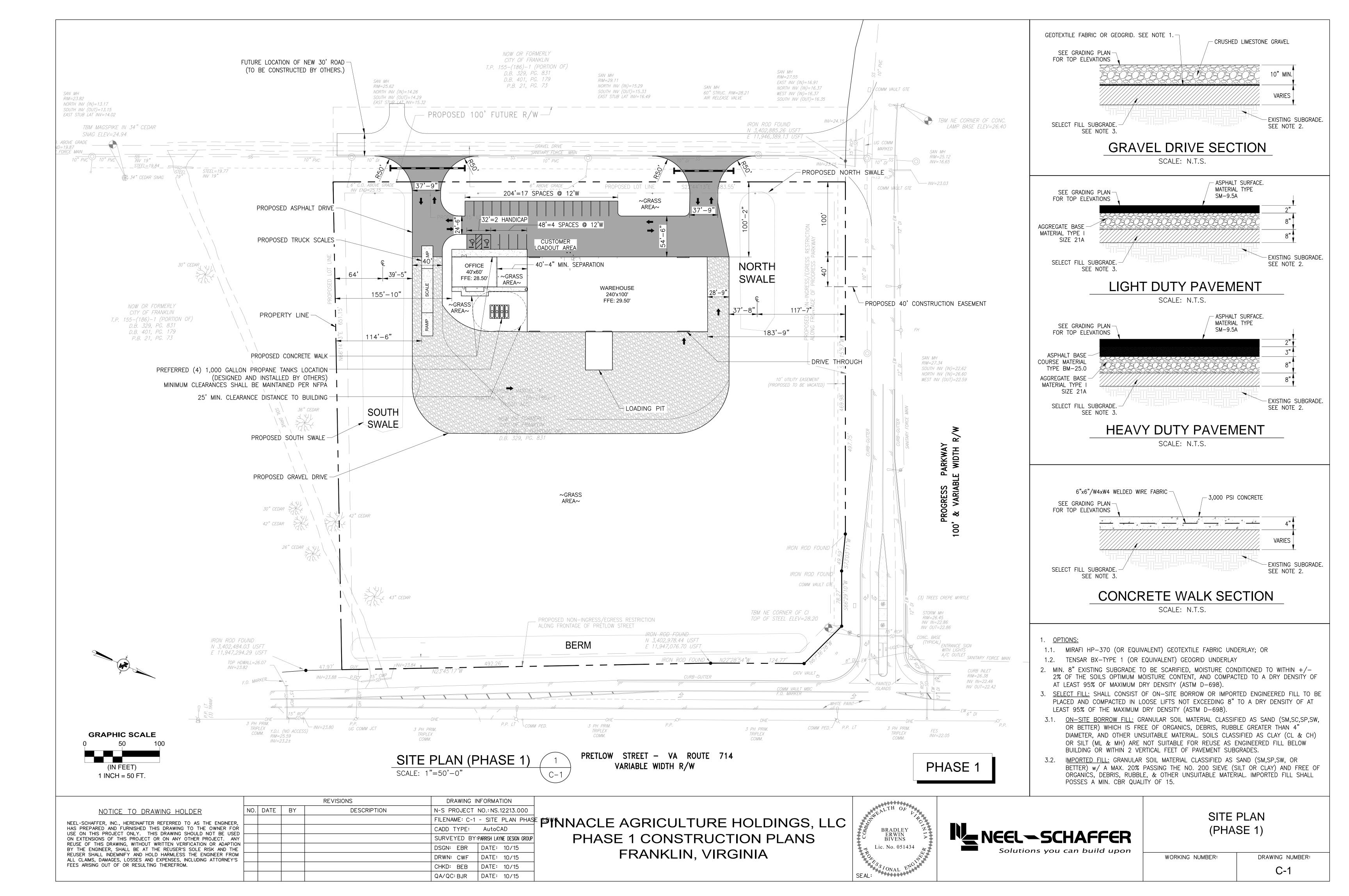


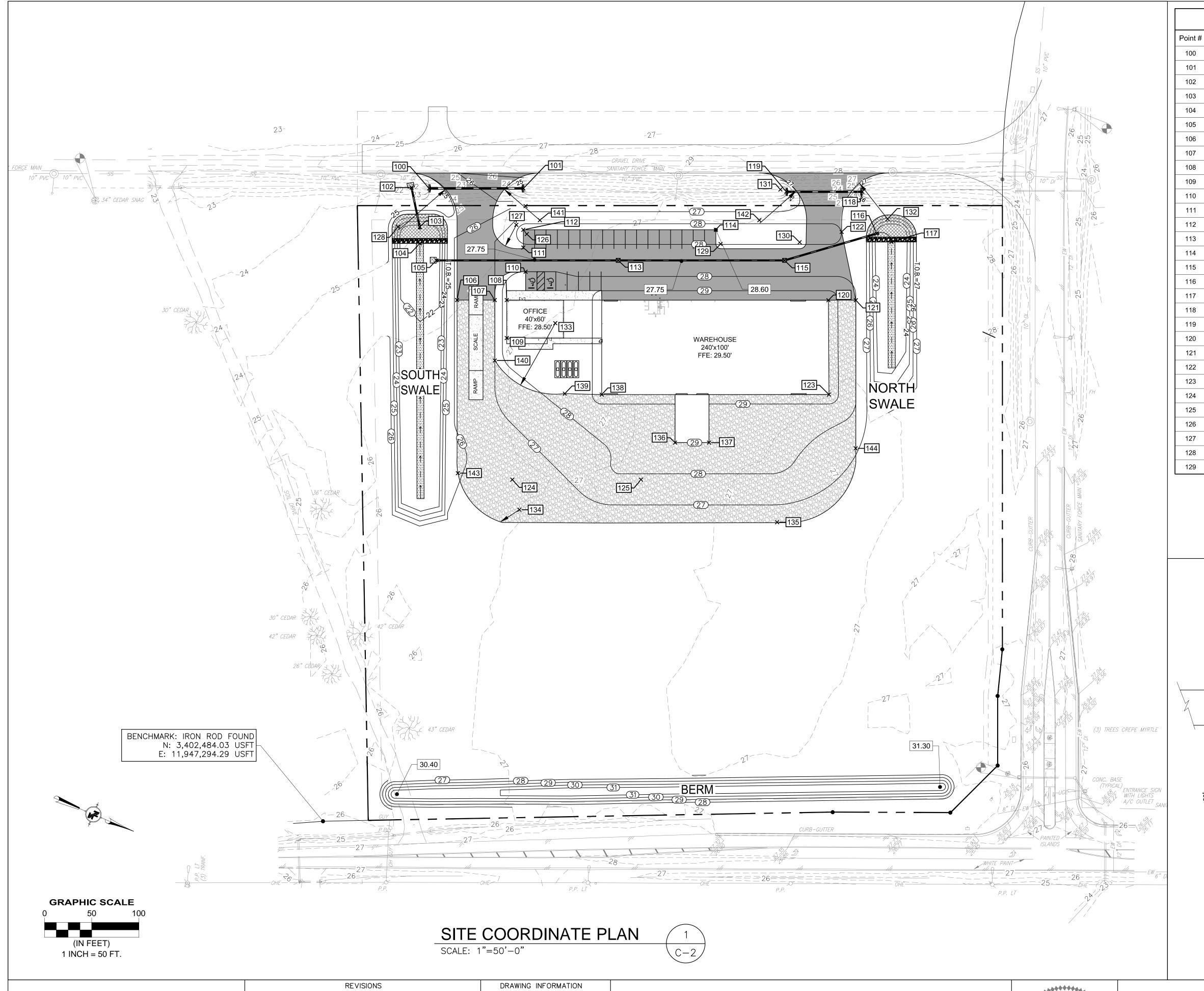
PREPARED BY:



1022 HIGHLAND COLONY PARKWAY, SUITE 202 RIDGELAND, MS 39157 PH: (601) 898-3358 FAX: (601) 898-8485

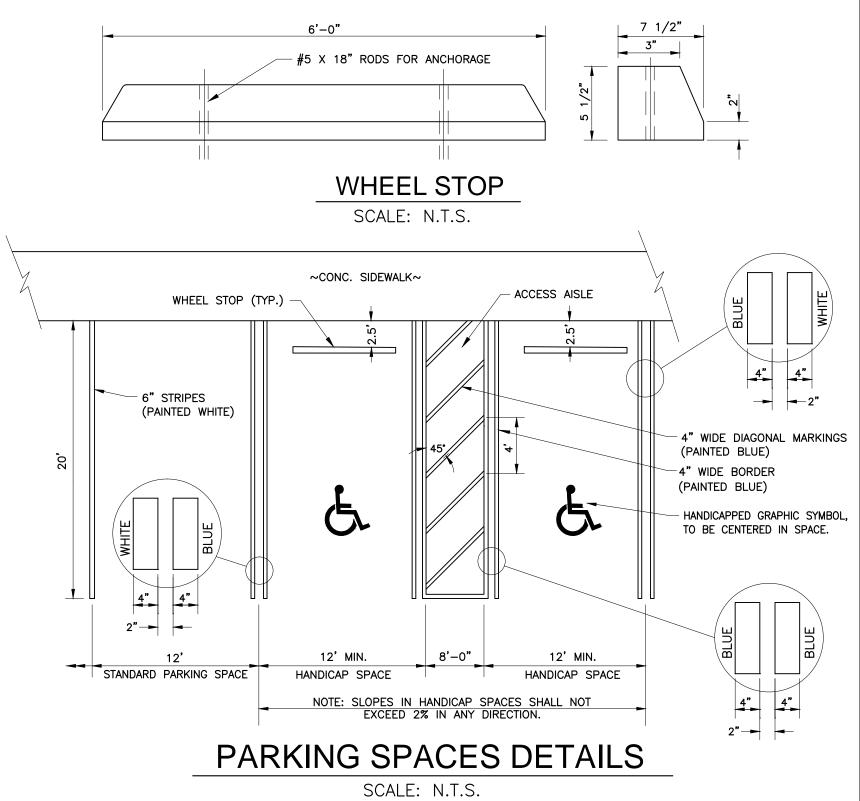






	Point Tal	ole
Point #	Northing	Easting
100	3402328.64	11946632.68
101	3402420.87	11946594.03
102	3402311.16	11946639.07
103	3402335.37	11946674.25
104	3402342.13	11946690.13
105	3402365.21	11946700.04
106	3402401.73	11946730.27
107	3402438.62	11946714.81
108	3402450.28	11946709.92
109	3402465.84	11946747.05
110	3402457.13	11946674.53
111	3402445.01	11946651.86
112	3402437.75	11946634.53
113	3402542.98	11946625.54
114	3402625.90	11946555.68
115	3402705.53	11946557.42
116	3402784.61	11946493.42
117	3402802.37	11946495.55
118	3402753.44	11946458.53
119	3402679.20	11946489.64
120	3402764.67	11946578.32
121	3402791.49	11946567.11
122	3402749.70	11946506.22
123	3402803.89	11946670.29
124	3402529.20	11946883.10
125	3402654.97	11946830.39
126	3402442.87	11946637.25
127	3402428.82	11946632.58
128	3402314.14	11946682.85
129	3402636.31	11946567.59

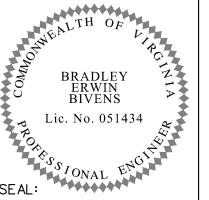
	Point Tal	ole
Point #	Northing	Easting
130	3402712.87	11946533.5
131	3402672.43	11946489.9
132	3402789.32	11946474.7
133	3402507.18	11946712.6
134	3402548.48	11946909.5
135	3402805.47	11946816.2
136	3402673.11	11946780.2
137	3402706.32	11946766.3
138	3402581.78	11946763.4
139	3402545.31	11946777.5
140	3402463.38	11946773.8
141	3402449.98	11946618.3
142	3402664.45	11946528.4
143	3402473.38	11946899.0
144	3402851.95	11946711.8
-		



NOTICE TO DRAWING HOLDER	NO.	DATE	E
NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER,			
HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED			
ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY			
REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE			
REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS. DAMAGES. LOSSES AND EXPENSES. INCLUDING ATTORNEY'S			
FEES ARISING OUT OF OR RESULTING THEREFROM.			

				REVISIONS	DRAWING II	NFORMATION
	NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000
					FILENAME: C-2	- SITE COORDINATE
Ŕ D					CADD TYPE:	AutoCAD
Ϋ́					SURVEYED BY	PARRISH LAYNE DESIGN GROUP
N					DSGN: EBR	DATE: 10/15
/ 					DRWN: CWF	DATE: 10/15
					CHKD: BEB	DATE: 10/15
					QA/QC: BJR	DATE: 10/15

PINNACLE AGRICULTURE HOLDINGS, LLC
PHASE 1 CONSTRUCTION PLANS
FRANKLIN, VIRGINIA

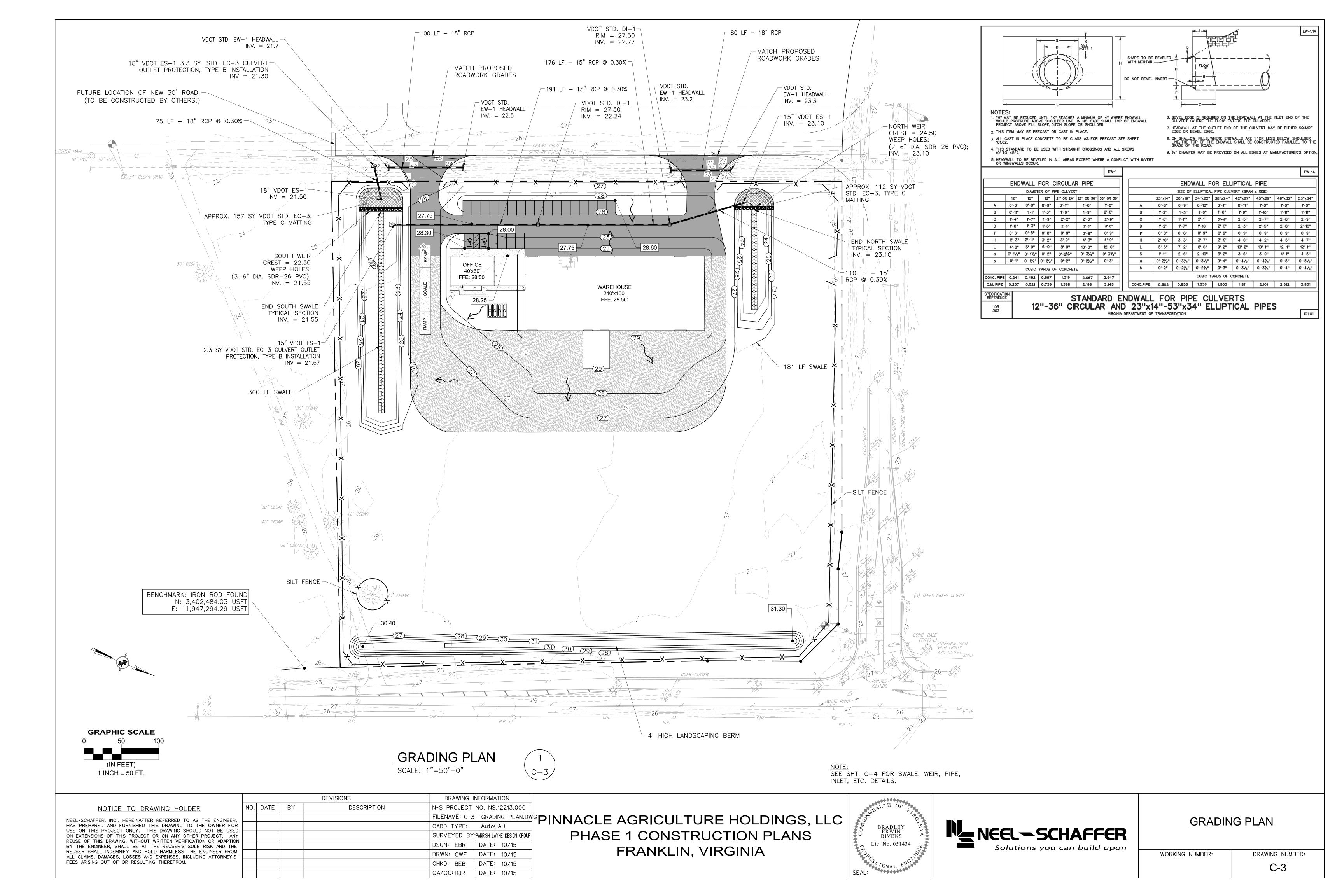


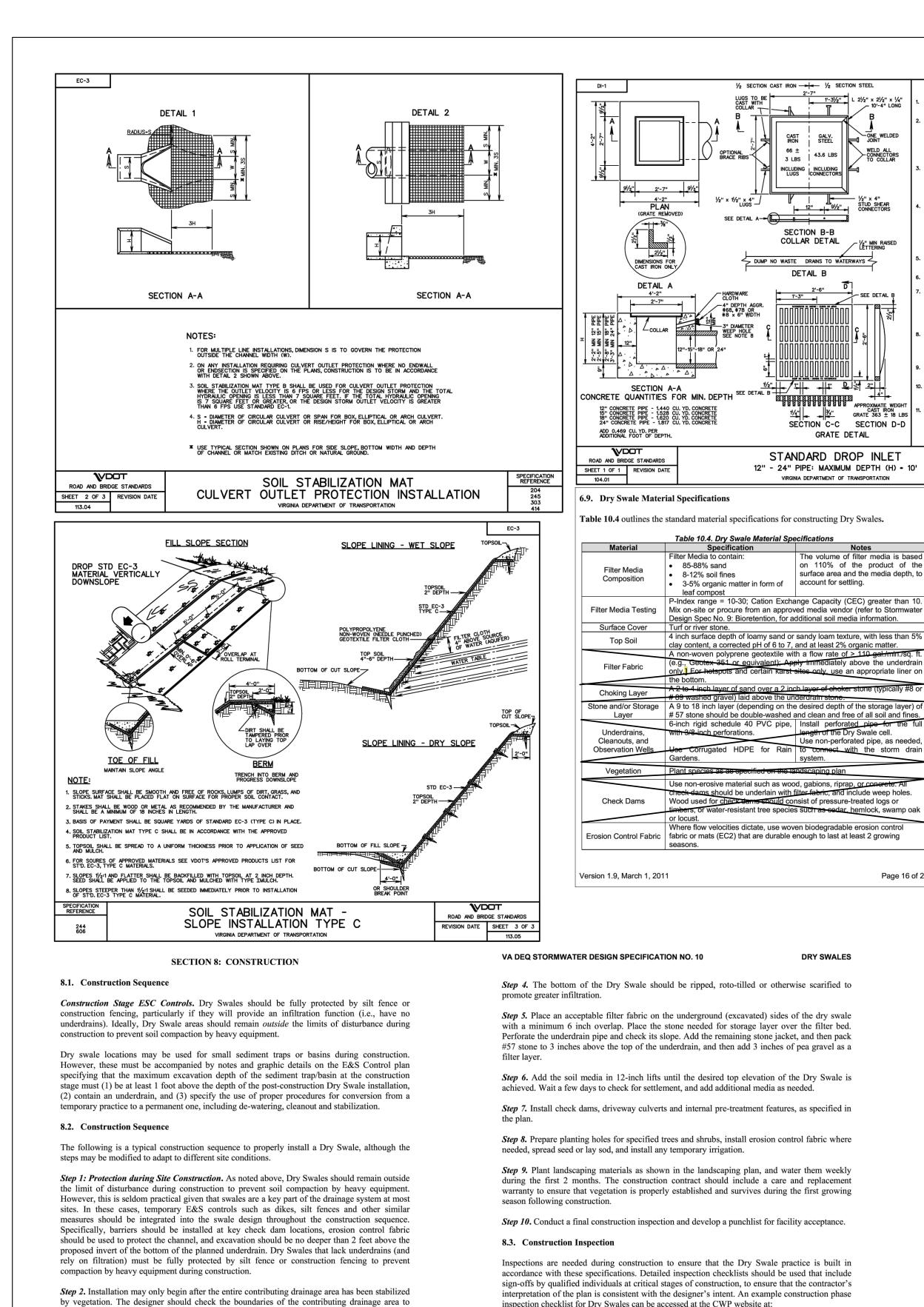


SITE COORDINATE PLAN & DETAILS

WORKING NUMBER:

DRAWING NUMBER:





ensure it conforms to original design. Additional E&S controls may be needed during swale

construction, particularly to divert stormwater from the Dry Swale until the filter bed and side

slopes are fully stabilized. Pre-treatment cells should be excavated first to trap sediments before

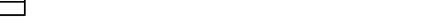
Step 3. Excavators or backhoes should work from the sides to excavate the Dry Swale area to the

appropriate design depth and dimensions. Excavating equipment should have scoops with

adequate reach so they do not have to sit inside the footprint of the Dry Swale area.

they reach the planned filter beds.

Version 1.9, March 1, 2011



Step 4. The bottom of the Dry Swale should be ripped, roto-tilled or otherwise scarified to

Step 5. Place an acceptable filter fabric on the underground (excavated) sides of the dry swale with a minimum 6 inch overlap. Place the stone needed for storage layer over the filter bed. Perforate the underdrain pipe and check its slope. Add the remaining stone jacket, and then pack #57 stone to 3 inches above the top of the underdrain, and then add 3 inches of pea gravel as a

achieved. Wait a few days to check for settlement, and add additional media as needed.

Step 10. Conduct a final construction inspection and develop a punchlist for facility acceptance.

Inspections are needed during construction to ensure that the Dry Swale practice is built in accordance with these specifications. Detailed inspection checklists should be used that include sign-offs by qualified individuals at critical stages of construction, to ensure that the contractor's interpretation of the plan is consistent with the designer's intent. An example construction phase inspection checklist for Dry Swales can be accessed at the CWP website at:

http://www.cwp.org/Resource Library/Controlling Runoff and Discharges/sm.htm (scroll to Tool6: Plan Review, BMP Construction, and Maintenance Checklists)

Some common pitfalls can be avoided by careful construction supervision that focuses on the

- Check the filter media to confirm that it meets specifications and is installed to the correct
- Ensure that caps are placed on the upstream (but not the downstream) ends of the
- underdrains.

VA DEQ STORMWATER DESIGN SPECIFICATION NO. 10 DRY SWALES

maintenance agreement must be executed between the owner and the local program. This section sets forth inspection requirements, compliance procedures if maintenance is neglected, notification of the local program upon transfer of ownership, and right-of-entry for local program

If a Dry Swale is located on a residential lot, the existence and purpose of the Dry Swale must be noted on the deed of record. Homeowners will need to be provided a simple document that explains their purpose and routine maintenance needs. A deed restriction, drainage easement or other mechanism enforceable by the qualifying local program must be in place to help ensure that dry swales are maintained. The mechanism should, if possible, grant authority for local

NOTES

STEPS ARE TO BE PROVIDED WHEN H IS 4'-0" OR GREATER. FOR DETAILS SEE STANDARD ST-1.

THIS ITEM MAY BE PRECAST OR CAST-

233 302

VA DEQ STORMWATER DESIGN SPECIFICATION NO. 10

entry into the local BMP maintenance tracking database.

remove trash or blockages at weepholes.

9.3 Routine Maintenance and Operation

VA DEQ STORMWATER DESIGN SPECIFICATION NO. 10

• Check inflow points for clogging, and remove any sediment.

Stormwater Management Handbook (2010) or at CWP website at:

working effectively.

9.1. Maintenance Agreements

9.2. Maintenance Inspections

treatment cells

Version 1.9, March 1, 2011

points are stable.

Make sure the desired coverage of turf or erosion control fabric has been achieved following

Inspect check dams and pre-treatment structures to make sure they are properly installed and

Check that outfall protection/energy dissipation measures at concentrated inflow and outflow

The real test of a Dry Swale occurs after its first big storm. The post-storm inspection should

focus on whether the desired sheetflow, shallow concentrated flows or fully concentrated flows assumed in the plan actually occur in the field. Also, inspectors should check that the Dry Swale

drains completely within minimum 6 hour drawdown period. Minor adjustments are normally

SECTION 9: MAINTENANCE

Section 4 VAC 50-60-124 of the regulations specifies the circumstances under which a

agencies to access the property for inspection or corrective action. In addition, the GPS

coordinates should be logged for all Dry Swales, upon facility acceptance, and submitted for

Annual inspections are used to trigger maintenance operations such as sediment removal, spot

revegetation and inlet stabilization. The following is a list of several key maintenance inspection

Add reinforcement planting to maintain 95% turf cover or vegetation density. Reseed any

· Remove any accumulated sand or sediment deposits on the filter bed surface or in pre-

http://www.cwp.org/Resource Library/Controlling Runoff and Discharges/sm.htm (scroll to Tool6: Plan Review, BMP Construction, and Maintenance Checklists)

regular mowing, and pruning and management of trees and shrubs. The surface of the filter bed

can become clogged with fine sediment over time, but this can be alleviated through core aeration or deep tilling of the filter bed. Additional effort may be needed to repair check dams,

stabilize inlet points, and remove deposited sediment from pre-treatment cells.

• Examine filter beds for evidence of braiding, erosion, excessive ponding or dead grass.

construction, both on the filter beds and their contributing side-slopes.

3 LBS 43.6 LBS INCLUDING INCLUDING LUGS CONNECTORS

SECTION B-B

COLLAR DETAIL

DETAIL B

DOME NO MINUTE - DIVING 10 MYSEMANAS

SEE DETAIL B

Table 10.4. Dry Swale Material Specifications

8-12% soil fines

leaf compost

3-5% organic matter in form of

SECTION C-C SECTION D-D

on 110% of the product of the

surface area and the media depth, to

Use non-perforated pipe, as needed, Rain to connect with the storm drain

such as sedar, hemlock, swamp oak

GRATE DETAIL

STANDARD DROP INLET

12" - 24" PIPE: MAXIMUM DEPTH (H) - 10'

VIRGINIA DEPARTMENT OF TRANSPORTATION

account for settling.

e.g., Geotex 351 or equivalent); Apply immediately above the underdrain only. For hetspots and certain karst sites only, use an appropriate liner on

Step 6. Add the soil media in 12-inch lifts until the desired top elevation of the Dry Swale is

Step 7. Install check dams, driveway culverts and internal pre-treatment features, as specified in

Step 8. Prepare planting holes for specified trees and shrubs, install erosion control fabric where

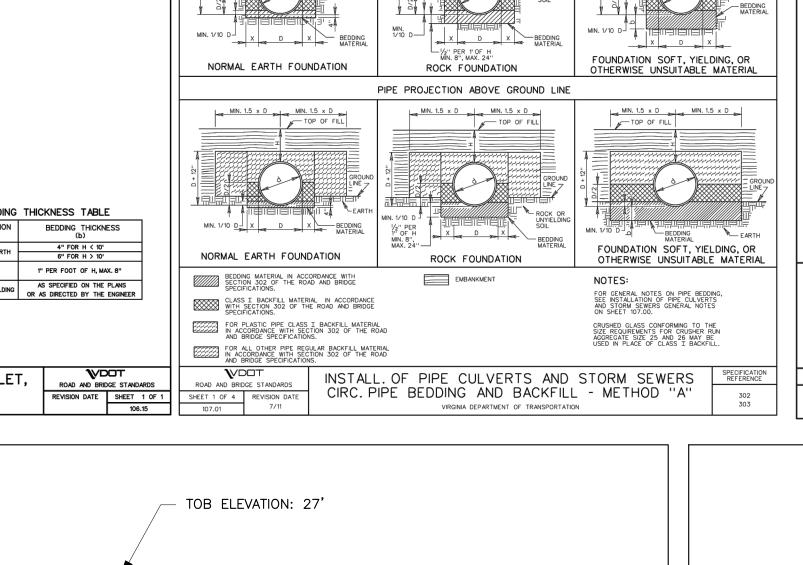
Step 9. Plant landscaping materials as shown in the landscaping plan, and water them weekly during the first 2 months. The construction contract should include a care and replacement warranty to ensure that vegetation is properly established and survives during the first growing

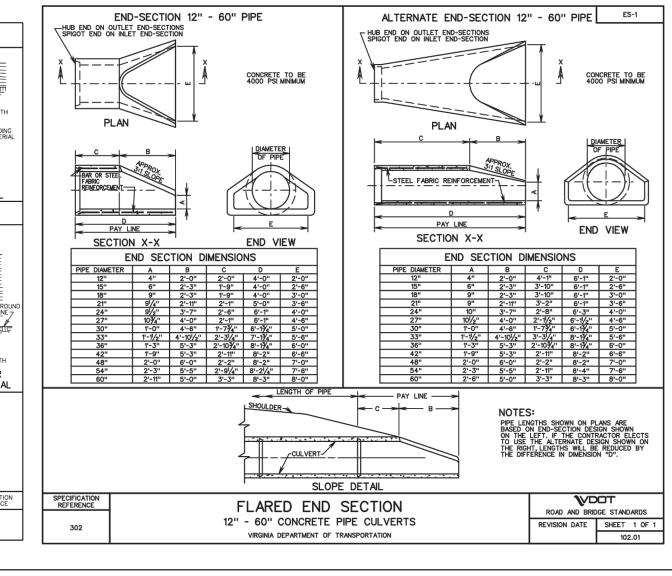
following key aspects of dry swale installation.

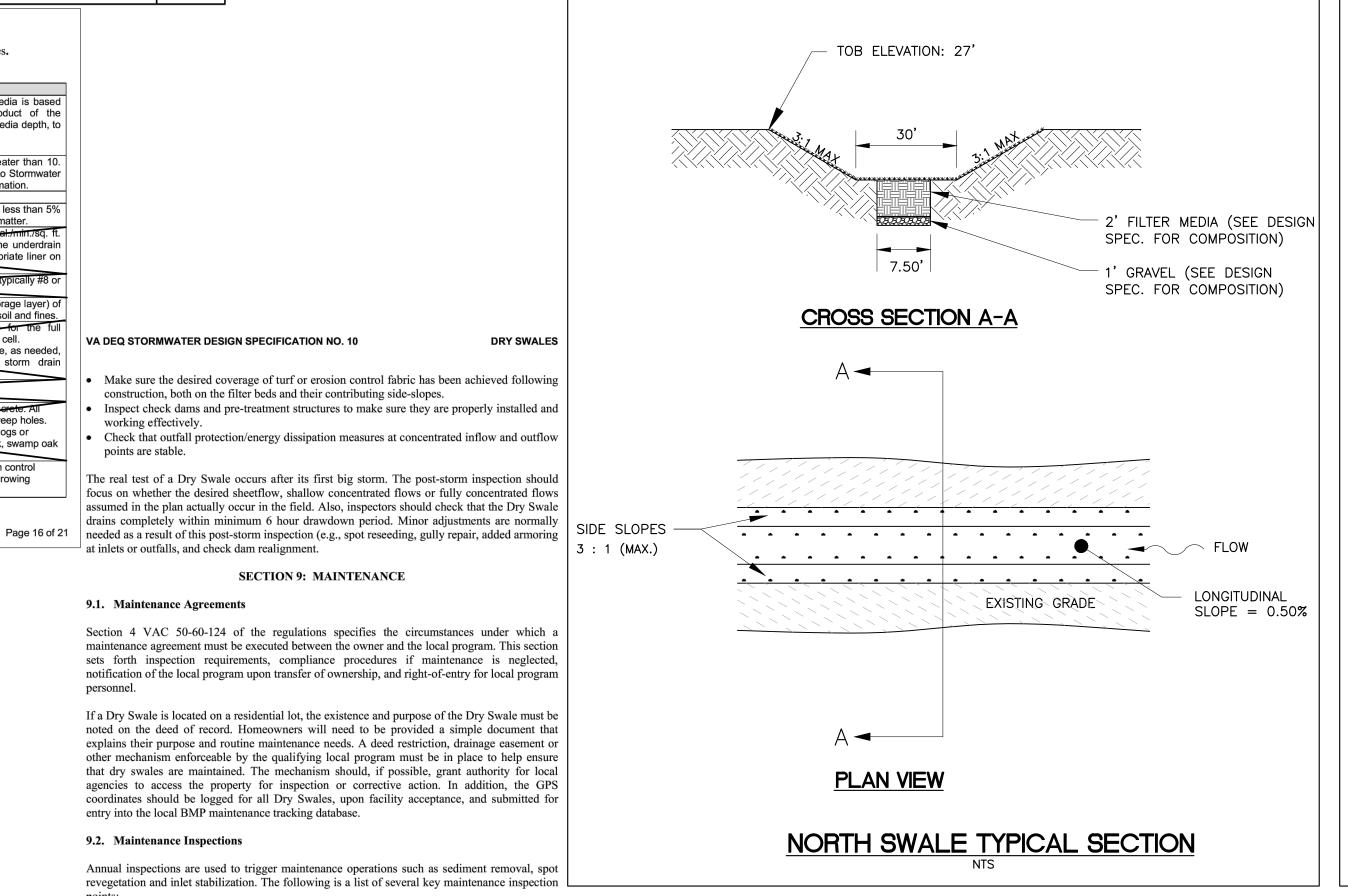
- · Check elevations such as the invert of the underdrain, inverts for the inflow and outflow points, and the ponding depth provided between the surface of the filter bed and the overflow

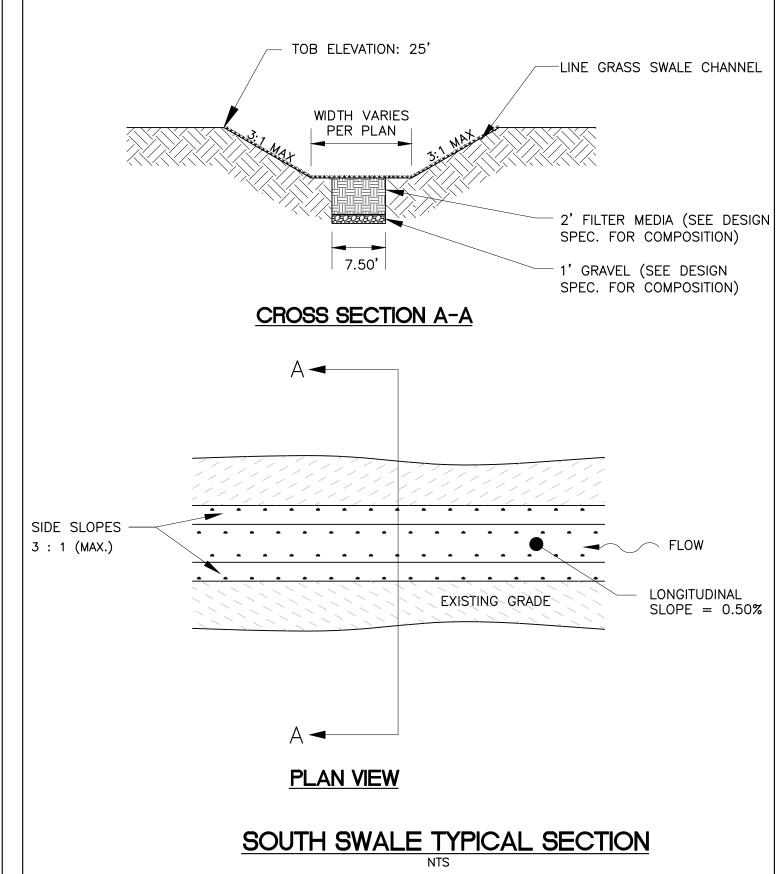
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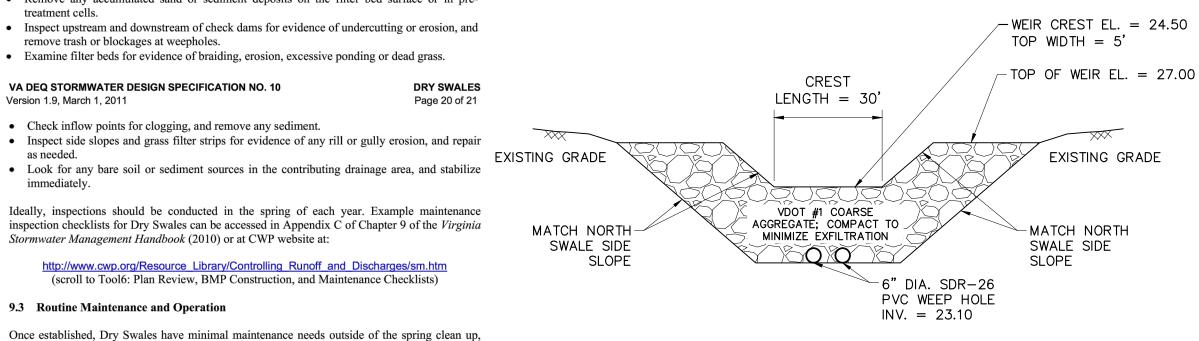
NO PROJECTION OF PIPE ABOVE GROUND LINE DEPTH OF INLET (H) TO BE SHOWN ON PLANS. FOR DEPTH GREATER THAN 10'USE STANDARD DI-1A NORMAL EARTH FOUNDATION PIPE PROJECTION ABOVE GROUND LINE SECTIONAL ELEVATION BEDDING THICKNESS TABLE . BEDDING MATERIAL IS TO BE AGGREGATE SIZE 25 OR 26. IF FOUNDATION HAS STANDIN OR RUNNING WATER PRESENT, THEN AGGREGATE NO. 57 SHALL BE USED FOR THE DEPI SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, CAPPED WITH 4 INCHES OF AGGREGATE NO. 25 OR 26. BEDDING THICKNESS NORMAL EARTH 4" FOR H < 10' 6" FOR H > 10' WIDTH OF BEDDING MATERIAL SHALL EXTEND A MINIMUM OF 6" BEYOND THE BASE OF THE STRUCTURE ON ALL SIDES. NORMAL EARTH FOUNDATION ROCK FOUNDATION 1" PER FOOT OF H, MAX. 8" . HEIGHT OF STRUCTURE (H) IS MEASURED FROM THE INVERT OF THE STRUCTURE TO THE TOP OF THE FRAME AND COVER OR CONCRETE DEPENDING ON STRUCTURE TYPE. SEE APPLICABLE DRAINAGE STRUCTURE STANDARD FOR DETAIL. BEDDING MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS AS SPECIFIED ON THE PLANS SOFT & YIELDING OR AS DIRECTED BY THE ENGINEER CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFIC ATIONS . ANY ALTERNATE METHODS OF ANCHORAGE MEETING THE APPROVAL OF THE ENGINEER MAY BE SUBSTITUTED FOR THE CAST IRON LUGS AS SHOWN HEREON. FOR PLASTIC PIPE CLASS I BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND RIDGE SPECIFICATIONS FOR ALL OTHER PIPE REGULAR BACKFILL MATERIAL IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS. **VDCT**ROAD AND BRIDGE STANDARDS ROAD AND BRIDGE STANDARDS MANHOLE, AND JUNCTION BOX SPECIFICATION REFERENCE

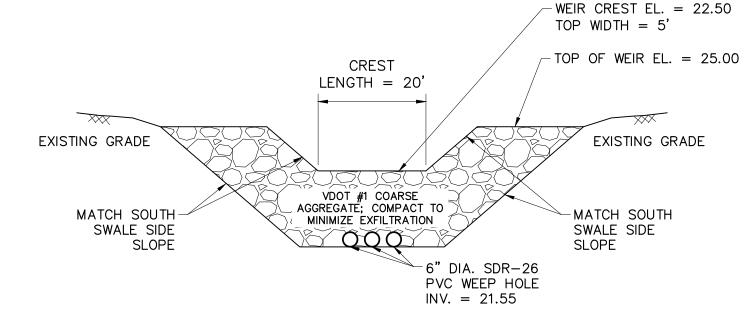












NORTH SWALE WEIR ELEVATION

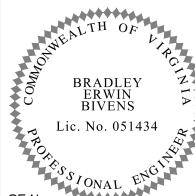
SOUTH SWALE WEIR ELEVATION

				REVISIONS	DRAWING I	NFORMATION
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HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED					CADD TYPE:	AutoCAD
ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY					SURVEYED BY	PARRISH LAYNE DESIGN GROUP
REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE					DSGN: EBR	DATE: 10/15
REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S					DRWN: CWF	DATE: 10/15
FEES ARISING OUT OF OR RESULTING THEREFROM.					CHKD: BEB	DATE: 10/15
					QA/QC: BJR	DATE: 10/15

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RPINNACLE AGRICULTURE HOLDINGS, LLC PHASE 1 CONSTRUCTION PLANS FRANKLIN, VIRGINIA

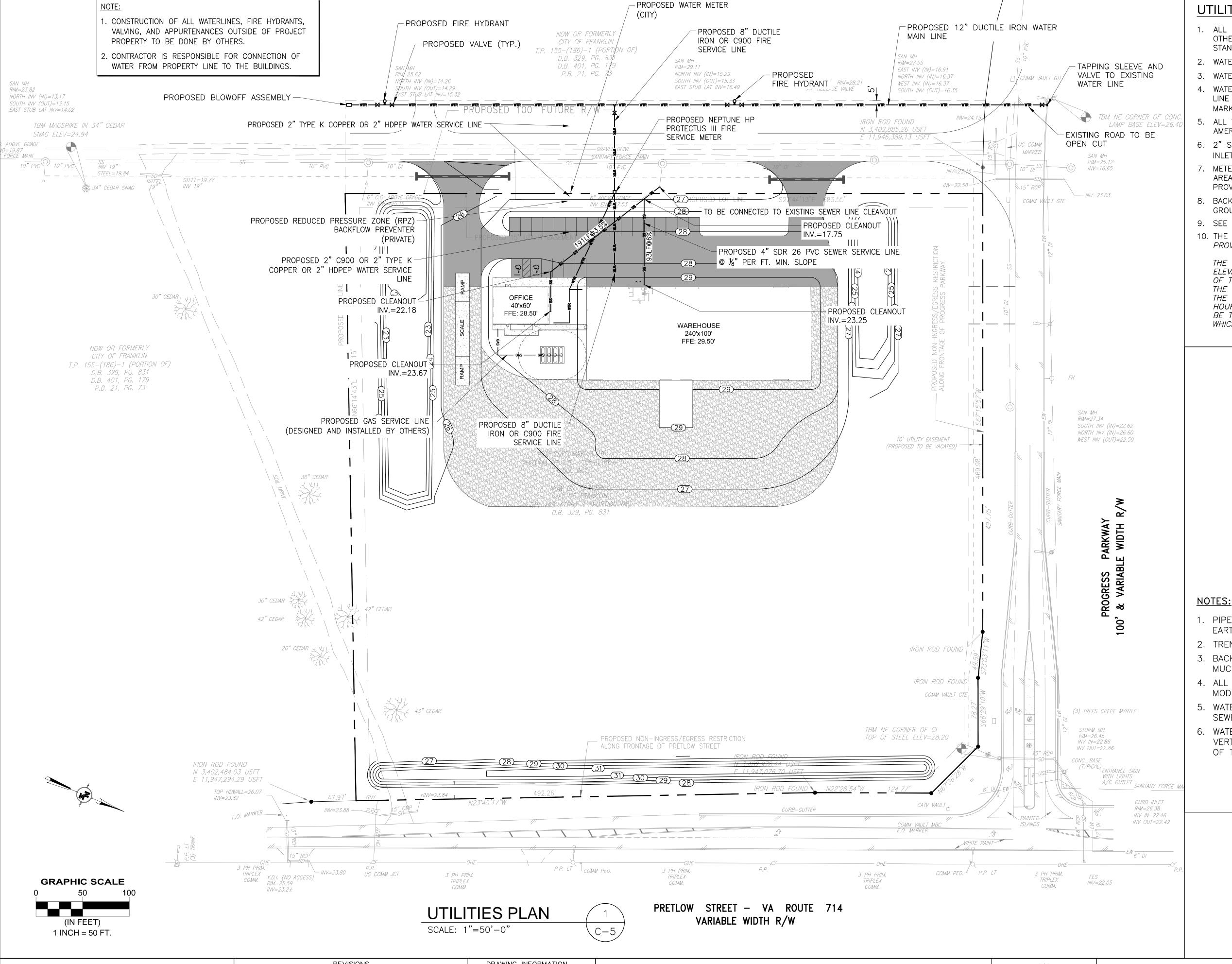
DRY SWALES





GRADING STANDARD DETAILS

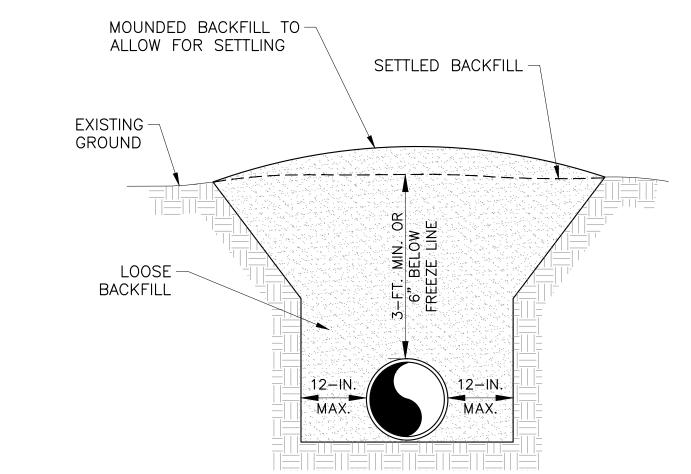
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	C-4



UTILITY NOTES

- 1. ALL UTILITIES SHALL CONFORM TO CITY OF FRANKLIN CONSTRUCTION STANDARDS UNLESS OTHERWISE APPROVED. REFERENCE SHEET C-6 & CITY OF FRANKLIN CONSTRUCTION STANDARDS FOR DETAILS.
- 2. WATER METER SHALL BE 2" NEPTUNE FLANGED WITH R900; PIT MIU REGISTER.
- 3. WATER METER SETTER SHALL BE A FORD # VBHH77-12B-11-77 OR EQUIVALENT.
- 4. WATER MAINS 4 INCHES OR LARGER SHALL BE DUCTILE IRON OR C900 PIPE. WATER LINE WILL HAVE TRACER WIRE ATTACHED TO TOP OF WATER LINE AND WATER LINE MARKER TAPE 12-18" ABOVE WATER MAIN.
- 5. ALL VALVES AND HYDRANTS IN THE RIGHT OF WAY SHALL BE MANUFACTURED BY AMERICAN AVK PER THE CITY OF FRANKLIN CONSTRUCTION STANDARD.
- 6. 2" SERVICE LINE SHALL BE TYPE K COPPER OR HDPEP FROM THE WATER MAIN TO THE INLET WITH A 2" AVK VALVE PRIOR TO METER SETTER.
- 7. METER BOX SHALL BE MADE BY BROOKS, CARSON OR EQUIVALENT IN NONE TRAFFIC AREA, ARMOR CAST SHALL BE USED IN TRAFFIC AREA. A TWO INCH HOLE WILL BE PROVIDED IN METER LID FOR THE EXTERNAL ANTENNA.
- 8. BACKFLOW PREVENTER SHALL BE REDUCED PRESSURE ZONE (RPZ) INSTALLED ABOVE GROUND IN A HOT BOX.
- 9. SEE MECHANICAL PLANS FOR UTILITY CONNECTION DETAILS AT BUILDING.
- 10. THE SITE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE MOST CURRENT DATA PROVIDED BY THE OWNER.

THE SITE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE SITE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

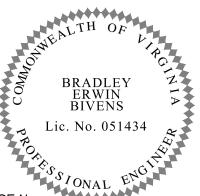


- 1. PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH BY UNDISTURBED EARTH. DIG OUT HOLLOW AT PIPE BELL.
- 2. TRENCH SHALL BE DRY DURING PLACEMENT.
- 3. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, STICKS, ROOTS & OTHER DEBRIS.
- 4. ALL BACKFILL SHALL BE COMPACTED TO 95% DENSITY OF AASHTO T-180 MODIFIED PROCTOR.
- 5. WATER LINES SHALL BE LAID AT LEAST TEN FEET, HORIZONTALLY FROM ANY SEWER OR SEWER MANHOLE WHEREVER POSSIBLE.
- 6. WATER PIPES CROSSING SEWERS SHALL BE CONSTRUCTED TO PROVIDE A VERTICAL SEPARATION OF AT LEAST 18 INCHES BETWEEN THE INVERT ELEVATION OF THE ABOVE PIPE AND THE TOP OF THE LOWER WHEREVER POSSIBLE.

TYPE I TRENCH DETAIL SCALE: N.T.S.

REVISIONS DRAWING INFORMATION NO. DATE BY DESCRIPTION N-S PROJECT NO.: NS.12213.000 NOTICE TO DRAWING HOLDER FILENAME: C-5 - UTILITIES.DWG NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR CADD TYPE: AutoCAD USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED SURVEYED BY:PARRISH LAYNE DESIGN GROUP ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION DATE: 10/15 DSGN: EBR BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM DRWN: CWF DATE: 10/15 ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. DATE: 10/15 CHKD: BEB DATE: 10/15 QA/QC: BJR

PINNACLE AGRICULTURE HOLDINGS, LLC PHASE 1 CONSTRUCTION PLANS FRANKLIN, VIRGINIA



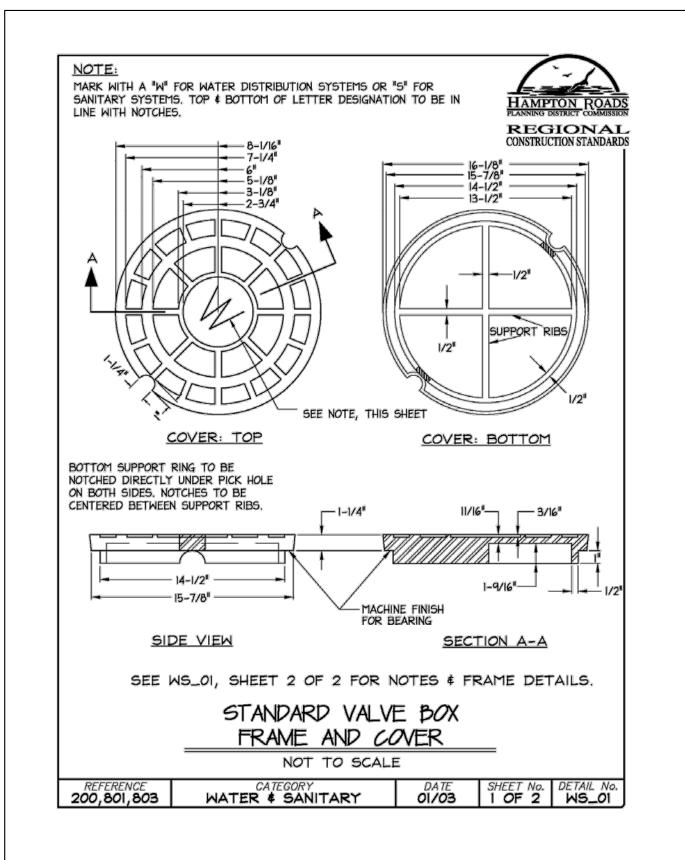


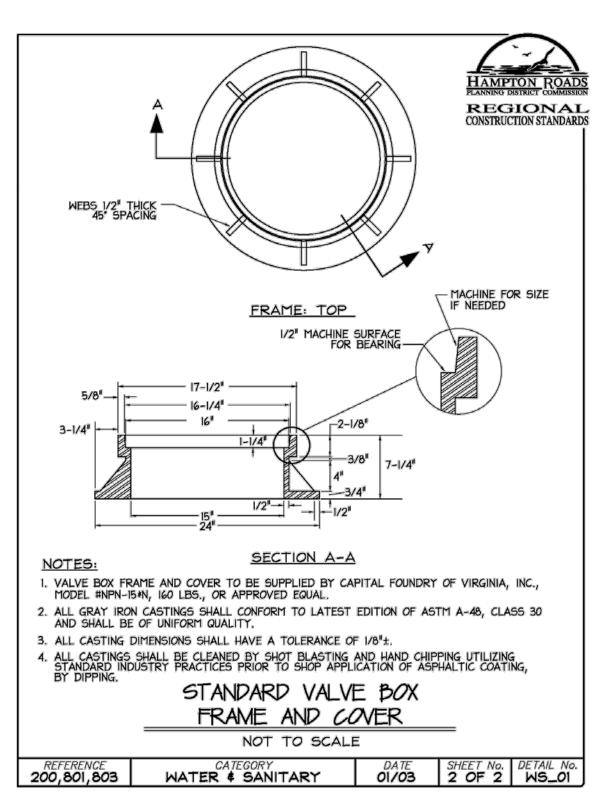
UTILITIES PLAN

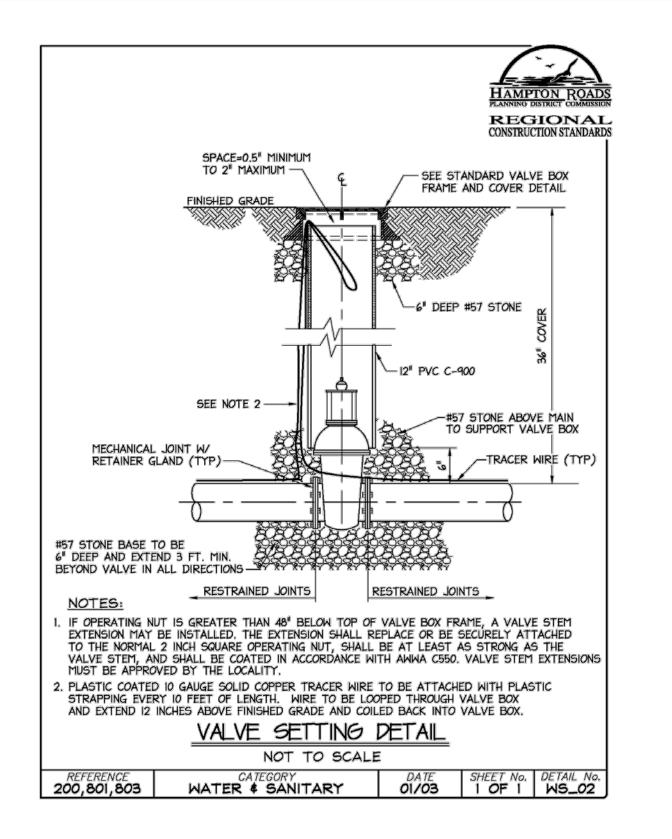
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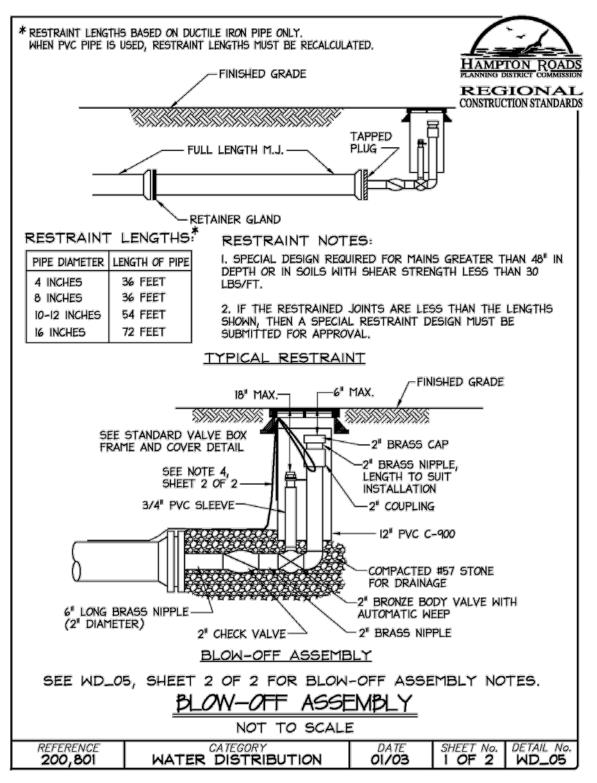
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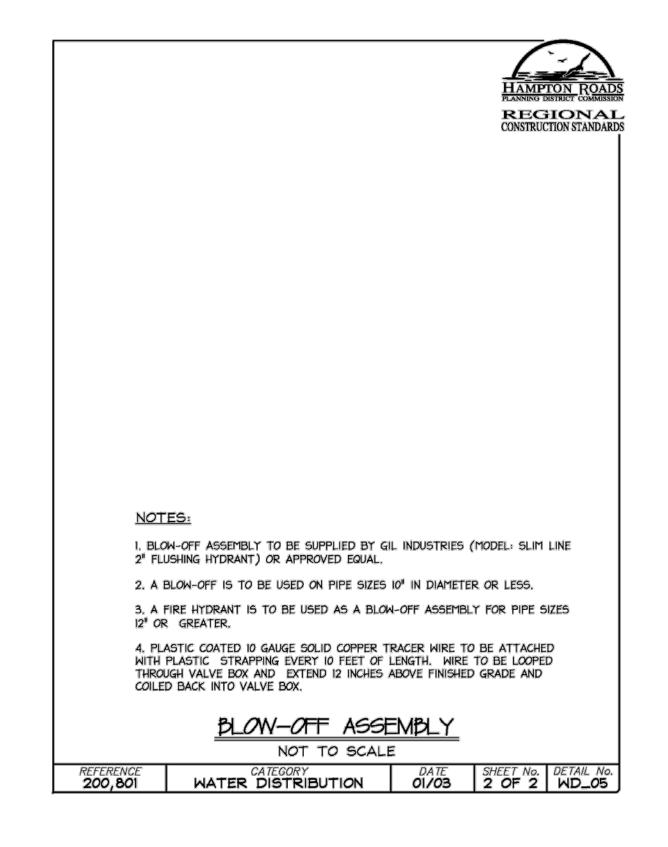
C-5

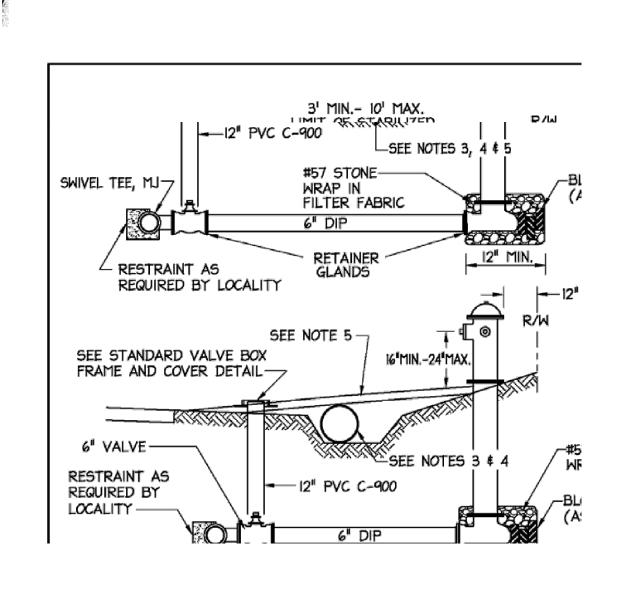


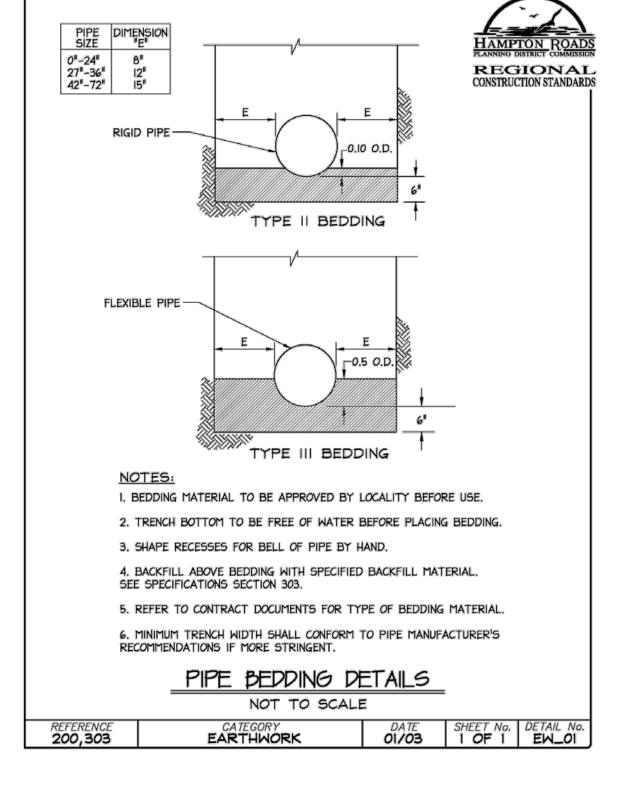


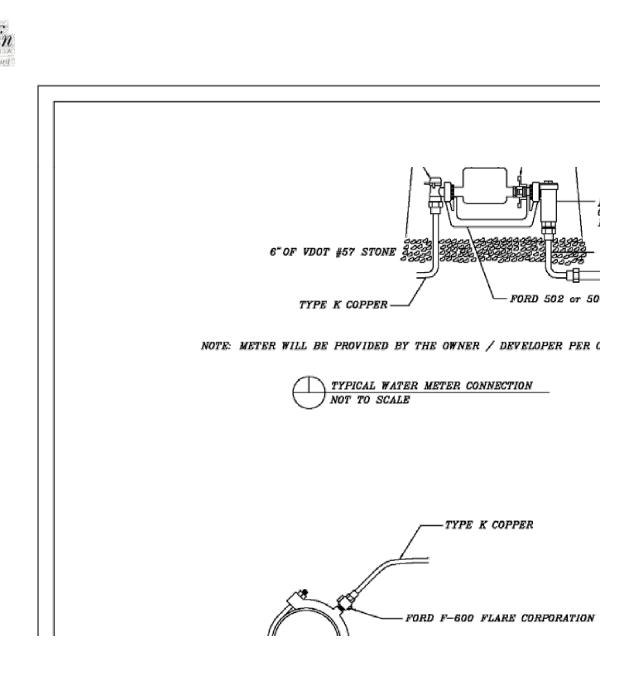


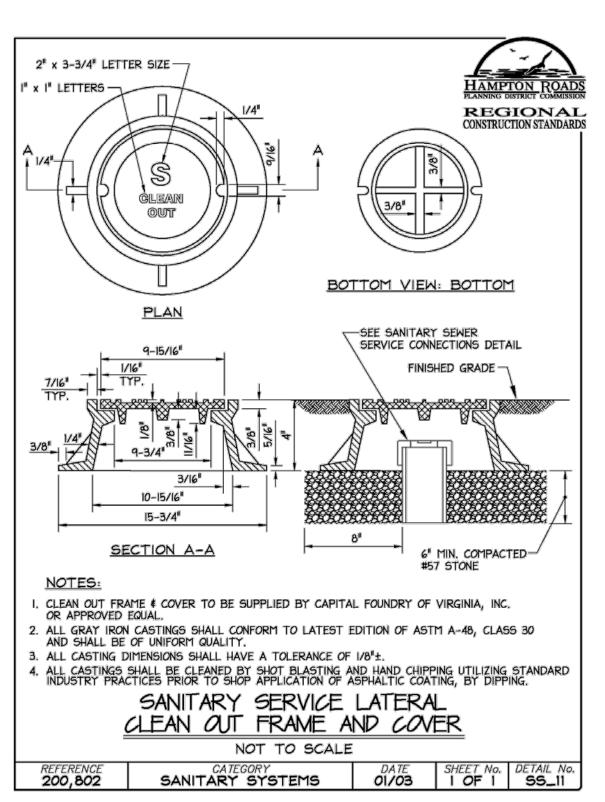


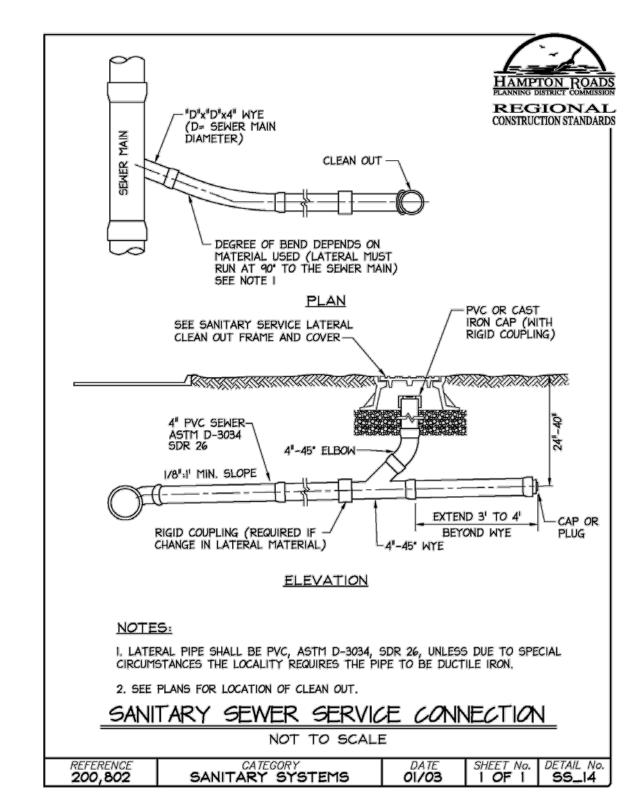






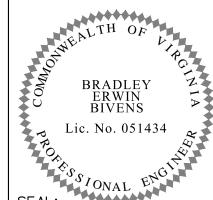






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HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR					CADD TYPE:	AutoCAD
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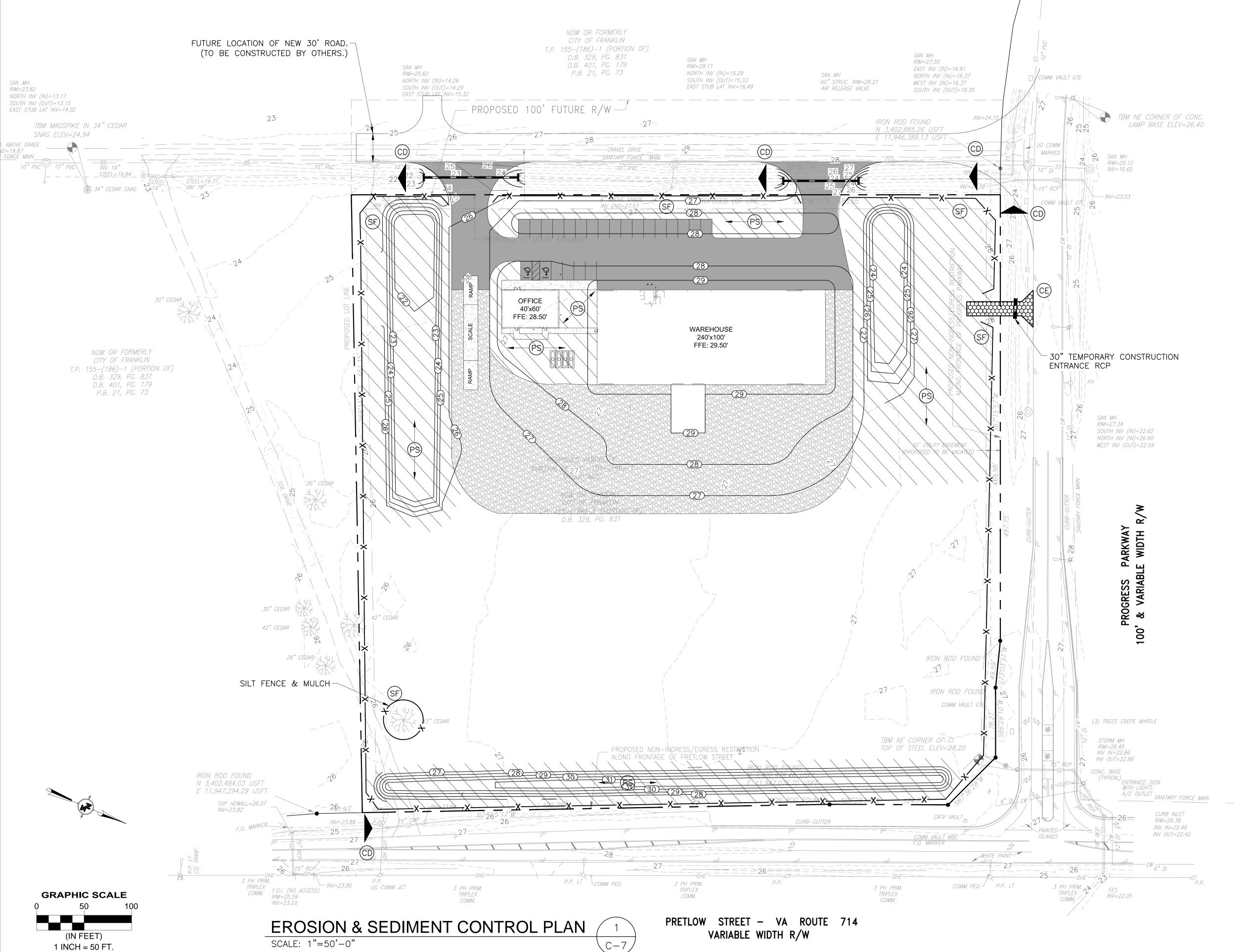
PHASE 1 CONSTRUCTION PLANS
FRANKLIN, VIRGINIA





UTILITY STANDARD DETAILS

working number: Drawing number: C-6



GENERAL EROSION AND SEDIMENT CONTROL NOTES

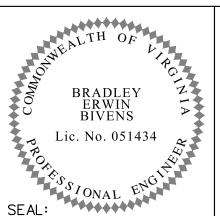
- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

E & S LEGEND

TITLE	SYMBOL	KEY	NO.
EMPORARY STONE CONSTRUCTION ENTRANCE w/ WASHRACK		CE	3.02
SILT FENCE	_xx	SF	3.05
ROCK CHECK DAMS		CD	3.20
PERMANENT SEEDING		→ PS →	3.32
		*	

REVISIONS DRAWING INFORMATION NOTICE TO DRAWING HOLDER NO. DATE BY **DESCRIPTION** N-S PROJECT NO.: NS.12213.000 FILENAME: C-7 - ESC PLAN.DWG CADD TYPE: AutoCAD SURVEYED BY:PARRISH LAYNE DESIGN GROUP REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION DATE: 10/15 BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM DATE: 10/15 DRWN: CWF ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. DATE: 10/15 CHKD: BEB DATE: 10/15 QA/QC: BJR

PINNACLE AGRICULTURE HOLDINGS, LLC
PHASE 1 CONSTRUCTION PLANS
FRANKLIN, VIRGINIA





EROSION & SEDIMENT CONTROL PLAN

working number: Drawing number: C-7

- MS-1: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- MS-2: DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- MS-3: A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT
- MS-4: SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

 MS-5: STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

 MS-6: SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE
 - A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- MS-7: CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROPERTY OF THE PROPERTY
- THE PROBLEM IS CORRECTED.

 MS-8: CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT
- CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

 MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

 MS-10: ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT
- ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

 MS-11: BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY PROPERTY OF PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL
- REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

 MS-12: WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- MATERIALS.

 MS-13: WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY
- VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.

 MS-14: ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- MS-15: THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

 MS-16: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

 A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.

 C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF—SITE PROPERTY.
- D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.

 E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
- F. APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.

 MS-17: WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS
- REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND—DISTURBING ACTIVITIES.

 MS—18: ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- MS-19: PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:
 - A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
 - B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

 (1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR
 - 2) (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO—YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP
 - CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.

 (B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT
 - CAUSE EROSION OF CHANNEL BED OR BANKS; AND

 (C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 - CONTAINED WITHIN THE PIPE OR SYSTEM.

 C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 - (1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS; OR
 - (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;

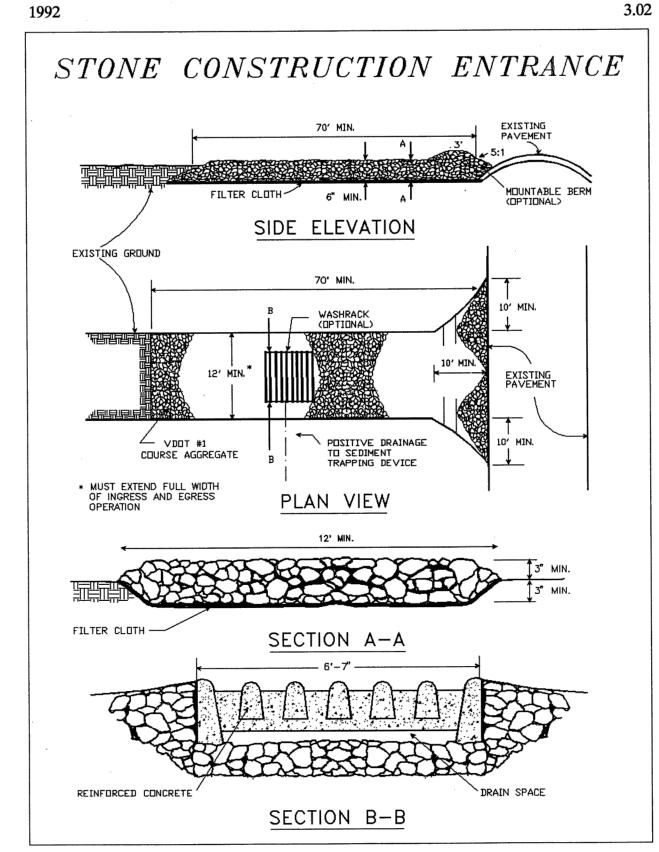
 (3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
 - (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.

 D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
 - E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF
- THE SUBJECT PROJECT.

 F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
- G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
- H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

 I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
- J. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
- K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.
- L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED
- PURSUANT TO § 62.1-44.15:54 OR 62.1-44.15:65 OF THE ACT.

 M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS.
- N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SUBDIVISION 19 OF THIS SUBSECTION.



CONSTRUCTION OF A SILT FENCE

SHEET FLOW INSTALLATION

POINTS A SHOULD BE HIGHER THAN POINT B.

(FRONT ELEVATION)

Source: Adapted from Installation of Straw and Fabric Filter

QA/QC:BJR DATE: 10/15

Barriers for Sediment Control, Sherwood and Wyant

DRAINAGEWAY INSTALLATION

(PERSPECTIVE VIEW)

(WITHOUT WIRE SUPPORT)

Source: Adapted from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC

1. SET THE STAKES.

3. STAPLE FILTER MATERIAL

IT INTO THE TRENCH.

TO STAKES AND EXTEND

Plate 3.02-1

2. EXCAVATE A 4"X 4" TRENCH

4. BACKFILL AND COMPACT

THE EXCAVATED SOIL.

STAKES.

UPSLOPE ALONG THE LINE OF

CONSTRUCTION SEQUENCE

The following construction sequence is planned to minimize the amount of sediment movement through the storm drain system. Installation and maintenance of these measures are considered critical for controlling sediment movement at this project site.

* Use seasonal nurse crop in accordance with seeding dates as stated below:

** May through October, use hulled seed. All other seeding periods, use

unhulled seed. Weeping Lovegrass may be added to any slope or low-

maintenance mix during warmer seeding periods; add 10-20 lbs./acre in mixes.

February, March through April Annual Rye

May 1st through August Foxtail Millet

September, October through November 15th Annual Rye

November 16th through January Winter Rye

TABLE 3.32-D

SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA

Minimum Care Lawn

<u>High-Maintenance Lawn</u>

General Slope (3:1 or less)

- Kentucky 31 Fescue

- Seasonal Nurse Crop *

Low Maintenance Slope (Steeper than 3:1)

- Common Bermudagrass **

- Kentucky 31 Tall Fescue

- Seasonal Nurse Crop *

- Sericea Lespedeza **

- Red Top Grass

- Red Top Grass

- Commercial or Residential

- Kentucky 31 or Turf-Type Tall Fescue

- Kentucky 31 or Turf-Type Tall Fescue

- Hybrid Bermudagrass (by other vegetative

establishment method, see Std. & Spec. 3.34)

- Hybrid Bermudagrass (seed) **

- Common Bermudagrass **

Construction Access

Access to the construction site shall be from Progress Parkway. At the egress point, it is required that stabilized gravel construction drives (about 50 feet) be established. This will provide an opportunity for trucks to clean mud from their wheels prior to entering adjacent streets.

Sediment Control Measures

This project will be constructed in one phase utilizing associated sediment control measures. Silt fences will be utilized and shall be installed in the following sequence to minimize soil movement and loss:

- 1. Silt Fence: Silt fence is to be installed according to manufacturer's recommendations.
- a. Install a single line of silt fence as shown on the drawings as soon as clearing and
- clearing and grubbing of this fence area is completed.
- b. Remove silt fence when area is ready for final compaction, grading and placement of surface topping.

SITE PLAN NOTES

- 1. All unsurfaced areas are to receive four inches of seeding with topsoil or sod and watered until a healthy stand of grass is obtained as indicated on the landscape plan.
- 2. Contractor is responsible for protecting existing benchmark.
- 3. Contractor shall be responsible for all relocations, including but not limited to all utilities, storm drainage, signs, traffic signals & poles, etc. as required for the construction of this project. All work shall be in accordance with governing authorities specifications and shall be approved by such.
- 4. All necessary permits and approvals from agencies governing the construction of this work shall be secured prior to beginning construction by the Contractor.
- 5. The Contractor is responsible for repairs of damage to any existing improvements during construction, such as, but not limited to, drainage, utilities, pavement, sidewalks, driveways, etc. Repairs shall be equal to better than existing conditions.
- 6. Contractor shall match existing pavement in grade and alignment, at connections to city streets.
- 7. Construction shall comply with all governing codes and be constructed to the same.

STREET CLEANING PLAN

3.32

Total Lbs.

Per Acre

175-200 lbs.

200-250 lbs.

128 lbs.

2 lbs.

20 lbs.

150 lbs.

93-108 lbs.

0-15 lbs.

2 lbs.

20 lbs.

20 lbs.

150 lbs.

40 lbs. (unhulled)

30 lbs. (hulled)

75 lbs.

The following is planned to minimize the amount of dirt and sediment tracked onto roadways by construction vehicles. Inspection and maintenance of these measures are considered critical for controlling mud tracking at this project site.

Construction Access to the construction site shall be from Progress Parkway. All vehicles must be mud free before exiting the site. Vehicles shall use the wash rack area to remove all dirt from tires. This will provide an opportunity for trucks to clean mud from their wheels prior to entering

The street shall be cleaned before each midday peak hour and at the end of construction activities each day. If the street requires cleaning between these times, Unless there is an event that requires the street to be cleaned, it shall be cleaned to restore it to pre construction.

INSPECTION & MAINTENANCE PLAN

The administrator or any duly authorized agent of the administrator shall inspect the land—disturbing activity during construction for:

- Compliance with the approved eregion and rediment central plant
- Compliance with the approved erosion and sediment control plan;
- (2)
 Compliance with the approved stormwater management plan;
- (3)

 Development, updating, and implementation of a stormwater pollution prevention plan; and
- Development and implementation of any additional control measures necessary to address a TMDL.

(b)

In accordance with a performance bond with surety, cash escrow, letter of credit, any combination thereof, or such other legal arrangement or instrument, the administrator may also enter any establishment or upon any property, public or private, for the purpose of initiating or maintaining appropriate actions which are required by the permit conditions associated with a land—disturbing activity when a permittee, after proper notice, has failed to take acceptable action within the time specified.

Pursuant to § 62.1—44.15:40 of the Code of Virginia, the administrator may require every VSMP authority permit applicant or permittee, or any such person subject to VSMP authority permit requirements under this chapter, to furnish when requested such application materials, plans, specifications, and other pertinent information as may be necessary to determine the effect of his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of this chapter.

Doct construction increations of sta

Post—construction inspections of stormwater management facilities required by the provisions of this chapter shall be conducted by the administrator or any duly authorized agent of the administrator pursuant to the locality's adopted and state board approved inspection program, and shall occur, at minimum, at least once every five (5) years except as may otherwise be provided for in this article.

Both the short—term (during construction) and long term (after construction) maintenance needs must be addressed.

<u>Short Term</u>

All erosion and sediment control practices will be checked for stability and operation following every runoff producing rainfall but in no case, less than every week. Any needed repairs will be made immediately to maintain the practice performance as designed.

The access road exit area shall be maintained in a smooth, well compacted condition. Excess soil and debris shall be removed as needed to maintain a gravel exposed surface.

Sediment will be removed from the upstream face of the silt fence when it increases to about a 6—inch depth at the fence. The silt fence will be replaced as necessary to maintain a barrier.

All vegetated areas will be fertilized, and re-vegetated as needed to maintain a vigorous and dense vegetative cover.

Long Term

All vegetated areas will be maintained in adequate condition to provide proper ground cover and reduce any areas of potential erosion. Where vegetation is lost, the area will be fertilized and seeded or other acceptable methods used to restore proper cover.

As needed, new employees responsible for working the area will be informed about the requirements of the Maintenance Plan.

REVISIONS DRAWING INFORMATION NO. DATE BY DESCRIPTION N-S PROJECT NO.: NS.12213.000 NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER. HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR CADD TYPE: AutoCAD USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY SURVEYED BY:PARRISH LAYNE DESIGN GROUP REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION DSGN: EBR DATE: 10/15 BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM DATE: 10/15 DRWN: CWF ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. CHKD: BEB DATE: 10/15

FILENAME: C-8 - ESC NOTES.DWG
CADD TYPE: AutoCAD

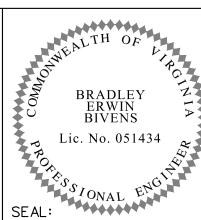
SURVEYED BY:PARRISH LAYNE DESIGN GROUP
DSGN: EBR DATE: 10/15

DRWN: CWF DATE: 10/15

PINNACLE AGRICULTURE HOLDINGS, LLC

PHASE 1 CONSTRUCTION PLANS
FRANKLIN, VIRGINIA

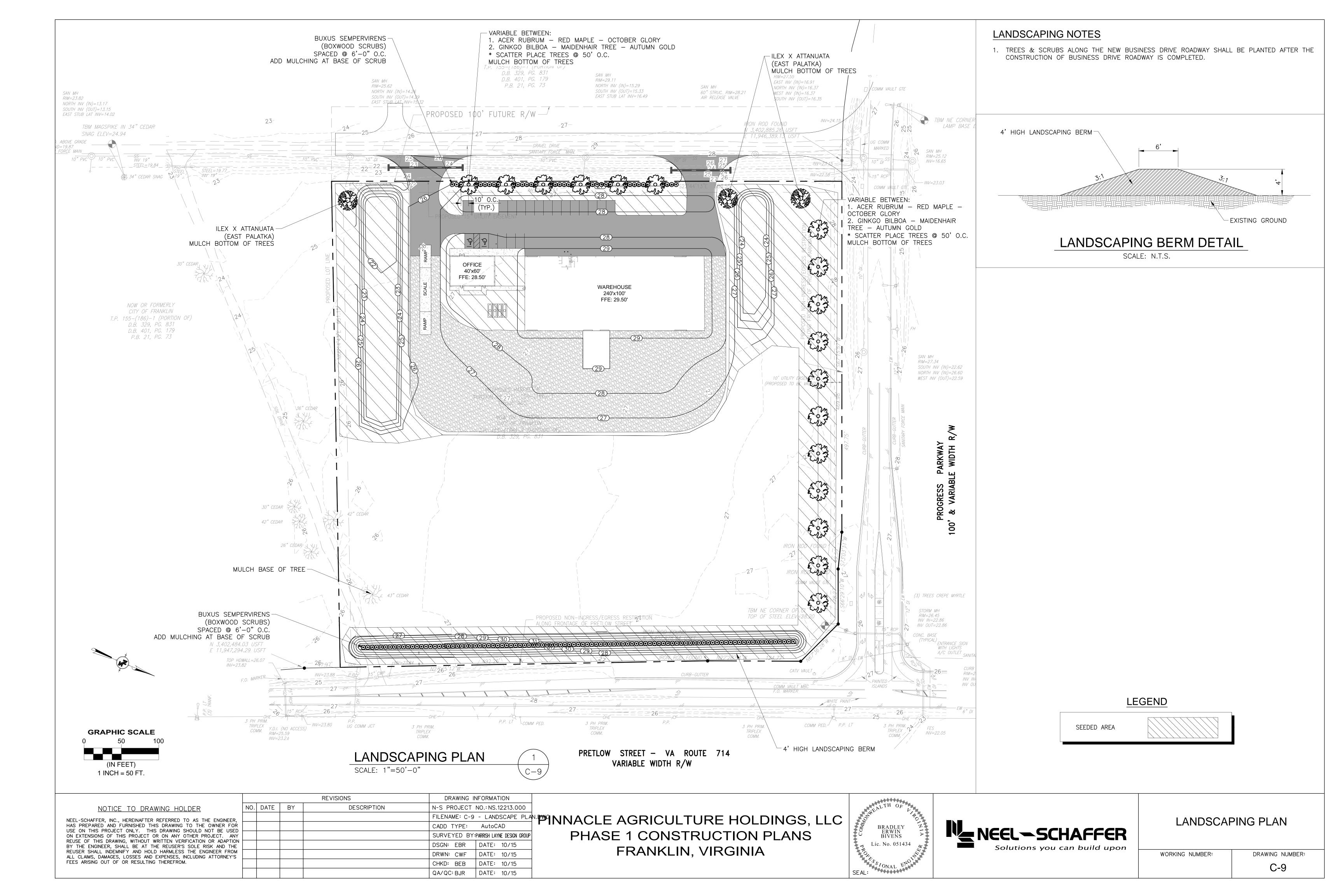
Plate 3.05-2





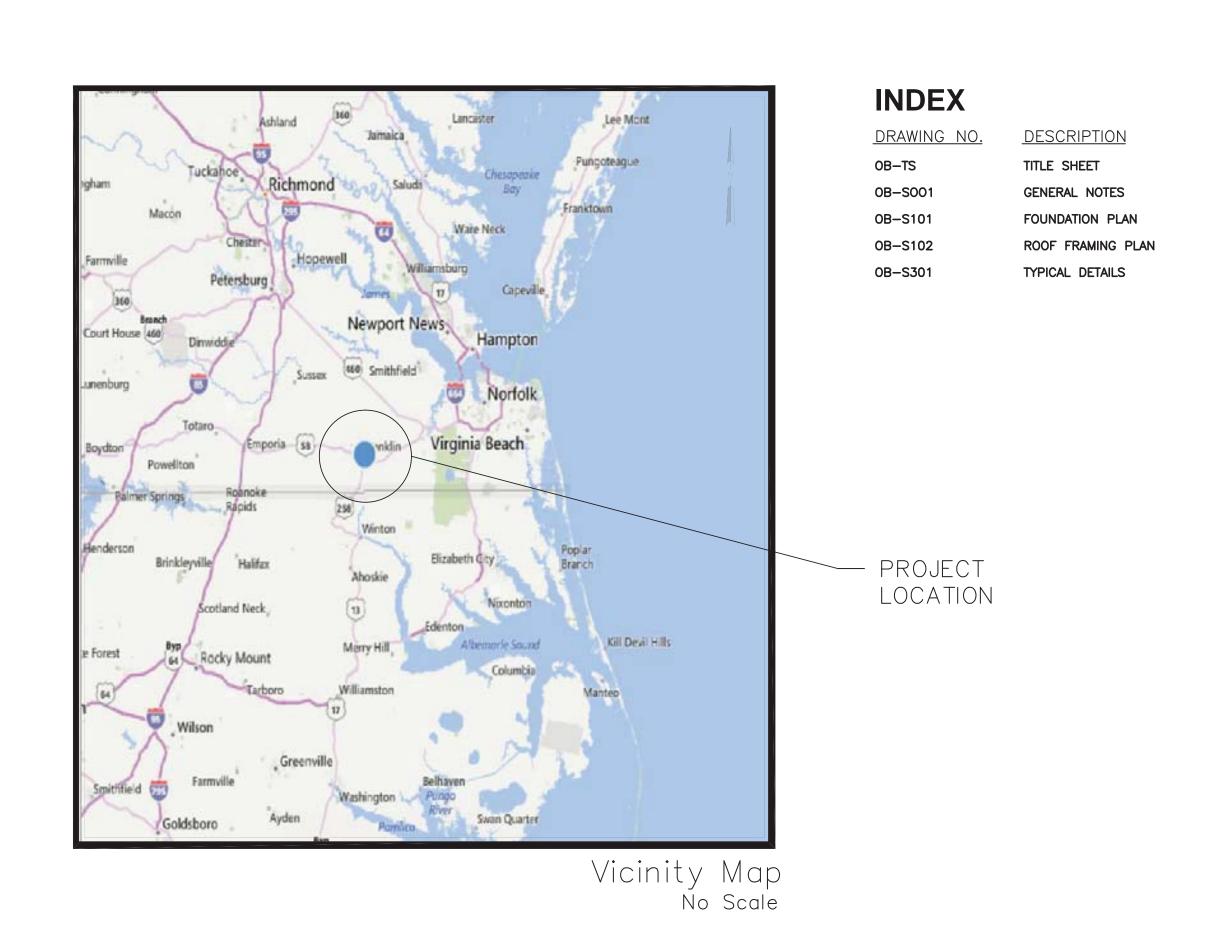
EROSION & SEDIMENT CONTROL NOTES

WORKING NUMBER: DRAWING NUMBER:



2,400 S.F. OFFICE BUILDING FOR PINNACLE AGRICULTURE HOLDINGS, LLC

FRANKLIN, VIRGINIA
AUGUST, 2015



Approved by: Neel-Schaffer

GENERAL:

- 1. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2009 EDITION.
- 2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES OR OMISSIONS.
- 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO BIDDING OF ANY DISCREPANCY BETWEEN PLANS, DETAILS, AND/OR SPECIFICATIONS.
- 4. DESIGN LOADS:
- A. DEAD LOADS: SEE STRUCTURAL DRAWINGS FOR THE CONSTRUCTION MATERIALS USED IN THE PROJECT. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF THE CAPACITY OF THE STRUCTURE.
- B. LIVE LOADS (psf): ROOF (REDUCIBLE). FLOOR.. C. SNOW LOADS: GROUND SNOW LOAD (Pg). SNOW LOAD IMPORTANCE FACTOR (Is) .. THERMAL FACTOR (Ct)...
- D. WIND LOADS: BASIC WIND SPEED (3 SECOND GUST)... **BUILDING CATEGORY:** WIND IMPORTANCE FACTOR.. EXPOSURE CATEGORY:.. INTERNAL PRESSURE COEFFICIENT (GCpi):. DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING (psf): REFERENCE 1/S001
- E. SEISMIC LOADS: EARTHQUAKE IMPORTANCE FACTOR (Ie):.. MAPPED SPECTRAL RESPONSE ACCELERATIONS: (Ss)... SITE CLASS (ASSUMED):. SPECTRAL RESPONSE COEFFICIENTS: (SDS). SEISMIC DESIGN CATEGORY:.. BASIC SEISMIC-FORCE RESISTING SYSTEM:
 - SPECIFICALLY DETAILED FOR
- DESIGN BASE SHEAR (kips):.. SEISMIC RESPONSE COEFFICIENT (Cs):.. .<u>0.046</u> RESPONSE MODIFICATION COEFFICIENT (R):.. ANALYSIS PROCEDURE:..
- 5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE
- 6. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. VISUAL OBSERVATIONS BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE REQUIRED INSPECTIONS OR TESTING PERFORMED BY THE TESTING AGENCY OR SPECIAL INSPECTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION MATERIALS ARE SPREAD OUT ON FRAMED FLOORS/ROOF SUCH THAT THE DESIGN LOADS LISTED ABOVE ARE NOT EXCEEDED.

SITE PREPARATION:

- 1. ALL FOOTINGS AND FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF. FOOTINGS ARE TO BEAR ON UNDISTURBED SOIL OR SATISFACTORY, COMPACTED STRUCTURAL FILL AS APPROVED BY A GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- 2. CONTRACTOR TO INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING, AND ADVISE ENGINEER OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.
- 3. PROVIDE 4" OF POROUS FILL AND POLYETHYLENE VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE.
- 4. THE OWNER SHALL HIRE A GEOTECHNICAL ENGINEER TO REVIEW THE FOUNDATION BEARING SURFACE AND ENSURE THAT THE ALLOWABLE SOIL BEARING LISTED ABOVE THAT WAS USED IN THE STRUCTURAL DESIGN IS MET.
- 5. COMPACTED FILL SHALL EXTEND 5'-0" OUTSIDE THE EXTERIOR BUILDING LINE.
- 6. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS FOR SITE PREPARATIONS IN SOIL REPORT BY ECS, DATED 05/20/15.

METAL BUILDING:

- 1. COORDINATE FOUNDATION PLAN WITH METAL BUILDING ANCHOR BOLT PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER. ACTUAL COLUMN LOCATIONS MAY NOT MATCH FOUNDATION PLAN. NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE NOTED.
- 2. ALL METAL BUILDING COLUMN BASES SHALL BE STRUCTURALLY PINNED BASES.
- 3. METAL BUILDING SUBMITTALS INCLUDING ANCHOR BOLT PLAN AND FOUNDATION REACTIONS SHALL BE REVIEWED BY THE CONSTRUCTION

MANAGER PRIOR TO CONSTRUCTION OF FOUNDATION.

- 4. METAL BUILDING MANUFACTURER SHALL LIMIT BUILDING DRIFT TO
- 5. DO NOT PROVIDE ADDITIONAL VERTICAL BRACING OR ADDITIONAL COLUMNS.
- 6. LIMIT METAL BUILDING COLUMN DEPTHS 24" AT THE BASE. LIMIT METAL BUILDING COLUMN WIDTHS 10" AT THE BASE.
- 7. METAL BUILDING MANUFACTURER TO DESIGN AND LOCATE PURLINS TO SUPPORT LIGHT FIXTURES AND MECHANICAL DUCTS AS REQUIRED.

COMP. & CLADDING WIND LOADS

EFFECTIVE WIND | SLOPED TRUSS ROOF

AREA (sq. ft.) 90 MPH WIND SPEED

-46.4

FOR ROOF OVERHANG (psf)

COLLATERAL LOADING:

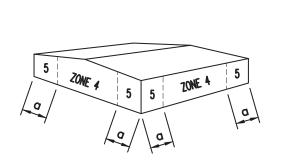
OFFICE BUILDING - 9 psf

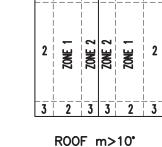
ITEMS SUPPORTED BY METAL BUILDING FRAME: *SPRINKLER SYSTEM *HVAC DUCTS *LIGHTING *INSULATION *LAY-IN CEILIING

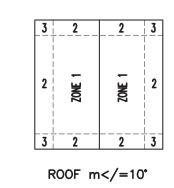
				_				
со	MP. & CLADDI	NG WIN	1D			COMP. & CLA	DDING WIN	1D
L	OADS FOR WA	LLS (psf)			LOADS FOR	ROOF (psf)	
	EFFECTIVE WIND	90 N	MPH	1		EFFECTIVE WIND	SLOPED TR	RUSS ROOF
	AREA (sq. ft.)	WIND	SPEED			AREA (sq. ft.)	90 MPH W	IND SPEED
	10	17.7	-19.3			10	10.2	-16.2
	20	16.9	-18.5	1	ZONE 1	20	10.0	-15.8
ZONE 4	50	15.9	-17.4	1	ZONET	50	10.0	-15.2
	100	15.1	-16.6]		100	10.0	-14.7
	500	13.2	-14.7			10	10.2	-28.3
	10	17.7	-23.8		ZONE 2	20	10.0	-26.0
	20	16.9	-22.2		ZONE Z	50	10.0	-23.0
ZONE 5	50	15.9	-20.1			100	10.0	-20.8
	100	15.1	-18.5			10	10.2	-41.8
	500	13.2	-14.7		ZONE 3	20	10.0	-39.1
				-	ZUINE 3	50	10.0	-35.5
						100	10.0	-32.8

NOTES:

- 1. WIDTH OF EDGE STRIP a = 4' 1".
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO INTERNATIONAL BUILDING CODE TABLE 1609.6.2.1(4) AND
- 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES.
- 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH. 5. CONSIDER 3 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF FRAMING AND 0 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS.







1 WIND LOAD TABLES

S001/ SCALE: N.T.S

				REVISIONS	DRAWING II	NFORMATION
NOTICE TO DRAWING HOLDER	NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.011
NEEL—SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER,					FILENAME:	
HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED					CADD TYPE:	AutoCAD
ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY					SURVEYED BY:	
REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE					DSGN: W.K.M.	DATE: 06/00/15
REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S					DRWN: J.D.M.	DATE: 06/00/15
FEES ARISING OUT OF OR RESULTING THEREFROM.					CHKD:	DATE:
					QA/QC:	DATE: 06/00/15

CONCRETE:

- 1. CONCRETE DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318-08.
- 2. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 3. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATING STEEL SHALL BE GRADE 60, DEFORMED BARS, CONFORMING TO ASTM A615.
- 4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO ACI DETAILING MANUAL SP-86 (2004) AND ACI 318.
- 5. ALL BAR SPLICES SHALL BE CLASS 'B' TENSION SPLICES, AS SPECIFIED IN ACI 318-08, UNLESS OTHERWISE NOTED. REINFORCEMENT SHALL NOT BE WELDED UNLESS APPROVED BY THE ENGINEER.

I	ENSION LAP SPLIC	E LENGINS
BAR _	fc=	4000 psi
SIZE	TOP BARS	OTHER BARS
	В	В
#3	25"	19"
#4	33"	25"
# 5	41"	31"
#6	49"	37"
#7	71"	54"
#8	81"	62"
#9	91"	70"
#10	102"	79"
#11	114"	87"

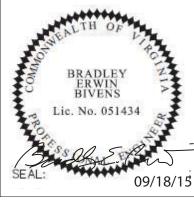
- 1. ABOVE CHART IS APPLICABLE TO GRADE 60 REINFORCEMENT. 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH
- CAST BELOW THE BAR. 3. WHEN BAR COVER IS EQUAL TO OR LESS THAN THE BAR DIAMETER OR THE BAR SPACING IS TWICE THE BAR DIAMETER OR LESS, SPLICE LENGTHS SHALL BE INCREASED BY 100%.
- 6. ALL EMBEDDED STRUCTURAL STEEL SHALL BE ASTM A36, UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE A307 UNLESS NOTED OTHERWISE. ALL BOLTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL.
- 7. PROVIDE 2 #4 DIAGONAL RODS IN THE TOP FACE OF SLAB ON GRADE AT ALL RE-ENTRANT CORNERS.
- 8. EXTEND REINFORCING BARS PAST RE-ENTRANT CORNERS A MINIMUM OF TENSION DEVELOPMENT LENGTH (Ld). 9. UNLESS OTHERWISE NOTED, REINFORCE ALL CONCRETE SLABS ON
- GRADE WITH 6 \times 6 W2.9 \times W2.9 WELDED WIRE FABRIC AT MID DEPTH OF SLAB.
- 10. WELDED WIRE FABRIC REINFORCING SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END.
- 11. CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 12. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT BUILDING.
- 13. SET ALL FLOOR DRAINS 1/2" BELOW FIN. FLOOR ELEVATION AND PROVIDE 4'-0" DIA. SLOPED AREA AROUND DRAIN, UNLESS OTHERWISE NOTED OR REQUIRED BY OTHER TRADE SPECIFICATIONS.
- 14. PROVIDE CONCRETE COVERAGE OF REINFORCEMENT AS FOLLOWS: (PER ACI 318) FOOTINGS: 3" BOTTOM & SIDES...... 1 1/2" TOP
- 15. PROVIDE CORNER BARS TO SPLICE WITH ALL CONTINUOUS REINFORCEMENT.
- 16. ALL CONCRETE SHALL BE CURED USING WET METHODS OR CURING COMPOUND PER ACI 301. COMPLY WITH ACI 301 FOR MIXING, TRANSPORTING, FORMING, PLACING, AND CURING CONCRETE.
- 17. MAXIMUM SPACING OF CONTROL JOINTS IN SLABS SHALL BE 16'-0" EACH WAY UNLESS SHOWN OTHERWISE ON THE PLANS.
- 18. ALL EPOXY SHALL CONFORM TO THE REQUIREMENTS OF HILTI HY 150 OR APPROVED EQUAL.

Item	Inspection / Test / Certification	C or P	Extent / Comments	Agent
1.00	Fabricators			
1.01	Review the quality control procedures of the following fabricators for completeness and adequacy relative to the fabricator's scope of work: Metal building manufacturer.	Periodic		1
2.00	Soils			
2.01	Verify bearing capacities of soils beneath footings.	Periodic	As recommended in approved soils report and specified in earthwork specifications.	1
2.02	Verify excavations are extended to the proper depth and have reached proper material	Periodic	As recommended by geotechnical engineer during construction.	1
2.03	Perform classification and testing of compacted fill materials.	Periodic	As recommended by geotechnical engineer during construction.	1
2.04	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Continuous	As recommended in approved soils report and specified in earthwork specifications.	1
2.05	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Periodic	As recommended by geotechnical engineer during construction.	1
3.00	Concrete Construction			
3.01	Inspect bolts to be installed in concrete prior to and during placement of concrete.	Continuous	During placement and concreting operations.	1
3.02	Inspection of anchors installed in hardened concrete. A pull test shall be performed on all post-installed anchor bolts.	Periodic	Prior to and during anchor installation.	1
5.00	Architectural / MEP Components			
5.01	Test smoke control systems.			
INSPECT	TION AGENTS			

Note: The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Inspection Agent(s) may be subject to the approval of the Building Official.

PINNACLE AGRICULTURE HOLDINGS, LLC 2,400 S.F. RIGHT HAND OFFICE BUILDING

FRANKLIN, VA





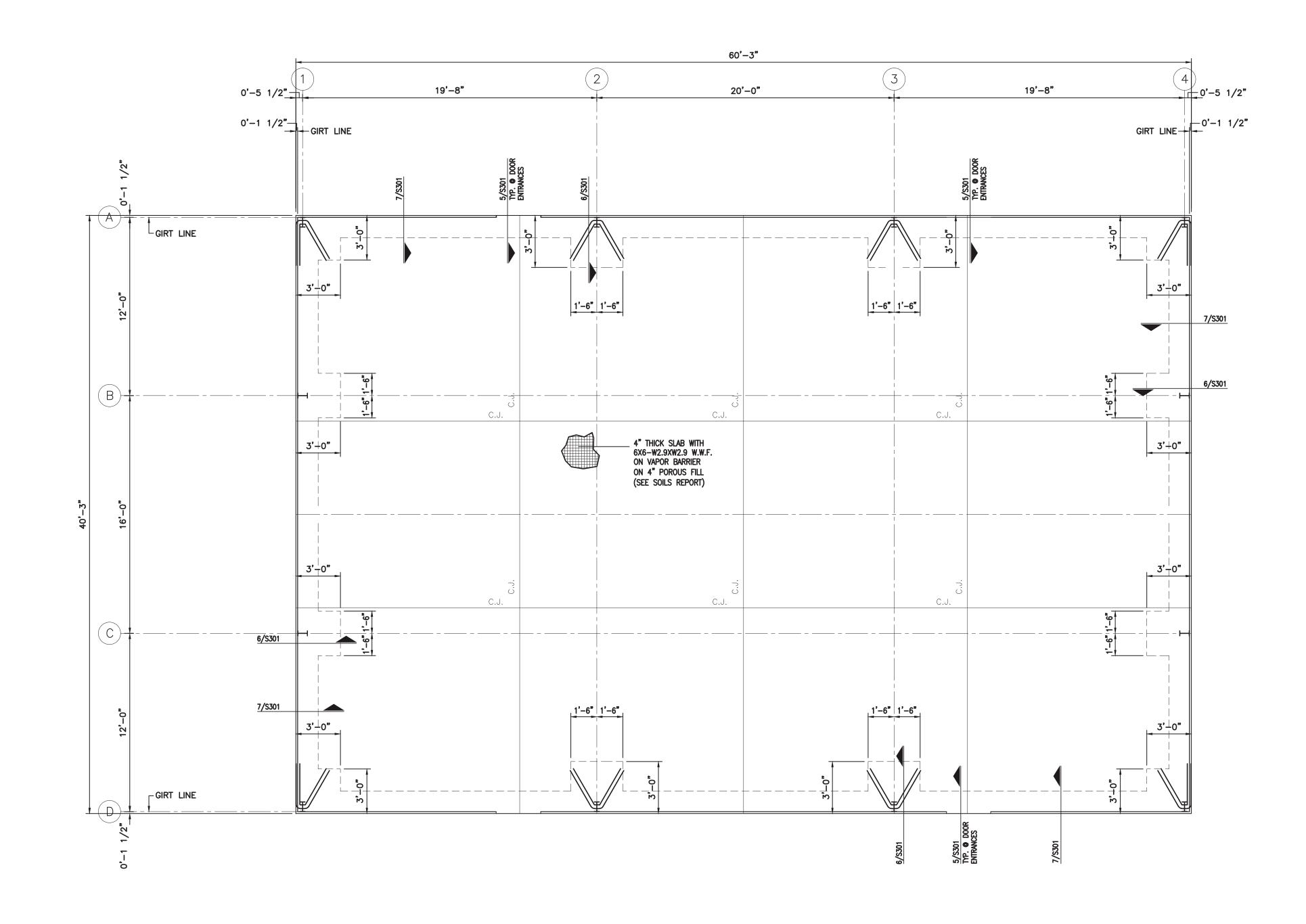
GENERAL NOTES

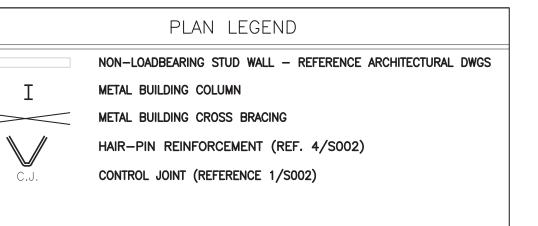
WORKING NUMBER:

DRAWING NUMBER:

OB-S001

2 of 5







PLAN NOTES

1. FINISH FLOOR ELEVATION = 28.5' (ASSUMED) (0'-0" AFF)

2. CONTRACTOR SHALL COORDINATE WITH MEP REQUIREMENTS FOR UTILITY LOCATIONS AND STEP FOOTINGS AS REQUIRED. REFERENCE 2/S002 AND 3/S002 FOR TYPICAL FOOTING STEP DETAILS.

3. METAL BUILDING COLUMN FOOTINGS WERE DESIGNED FOR THE REACTIONS SHOWN BELOW. METAL BUILDING MANUFACTURER SHALL NOTIFY THE ENGINEER IF REACTIONS ARE LARGER THAN WHAT IS INDICATED.

DL: 1.1 KIPS

CL: 2.5 KIPS

LL: 8.0 KIPS

WL: 2.8 KIPS (UPLIFT)

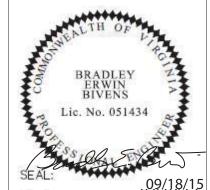
NOTICE TO DRAWING HOLDER

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

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NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.011		
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				SURVEYED BY:		
				DSGN: W.K.M.	DATE: 06/00/15	
				DRWN: J.D.M.	DATE: 06/00/15	
				CHKD:	DATE:	
				QA/QC:	DATE: 06/00/15	

PINNACLE AGRICULTURE HOLDINGS, LLC 2,400 S.F. RIGHT HAND OFFICE BUILDING

FRANKLIN, VA





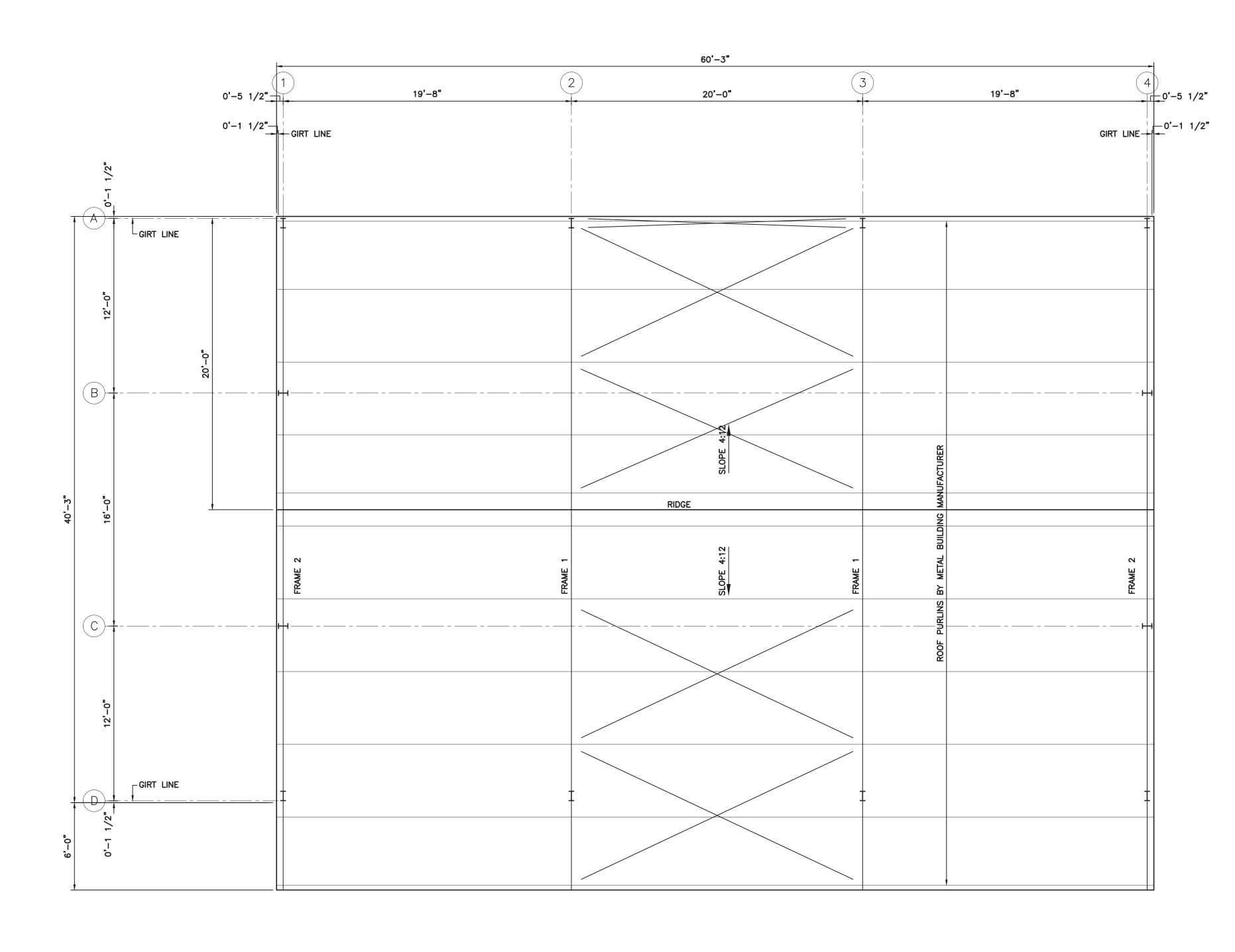
FOUNDATION PLAN

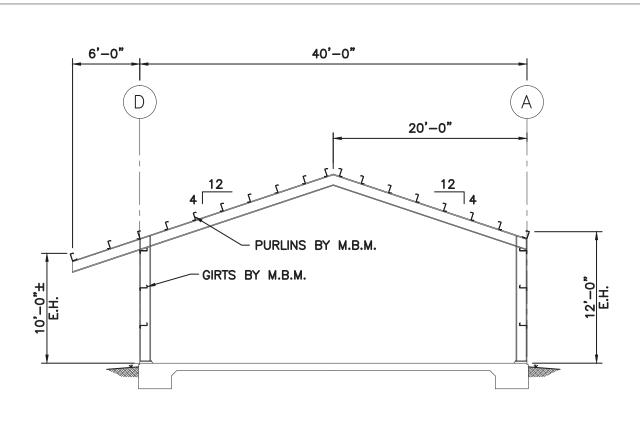
WORKING NUMBER:

OB-S101

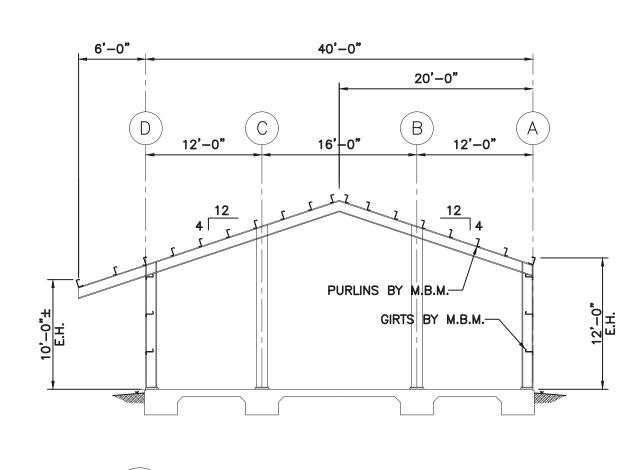
3 of 5

DRAWING NUMBER:





1 FRAME 1 S102 SCALE: N.T.S.



2 FRAME 2 S102 SCALE: N.T.S.

NON-LOADBEARING STUD WALL - REFERENCE ARCHITECTURAL DWGS.

METAL BUILDING COLUMN

METAL BUILDING CROSS BRACING

PLAN LEGEND

ROOF FRAMING PLAN

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

PLAN NOTES

1. METAL BUILDING MANUFACTURER TO DESIGN AND LOCATE PURLINS TO SUPPORT LIGHT FIXTURES, CEILINGS, MECHANICAL DUCTS, ETC. AS REQUIRED.

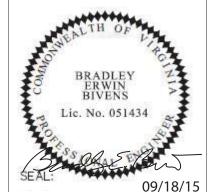
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NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.011	
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				SURVEYED BY:	
				DSGN: W.K.M.	DATE: 06/00/15
				DRWN: J.D.M.	DATE: 06/00/15
				CHKD:	DATE:
				QA/QC:	DATE: 06/00/15

PINNACLE AGRICULTURE HOLDINGS, LLC 2,400 S.F. RIGHT HAND OFFICE BUILDING

FRANKLIN, VA





ROOF FRAMING PLAN

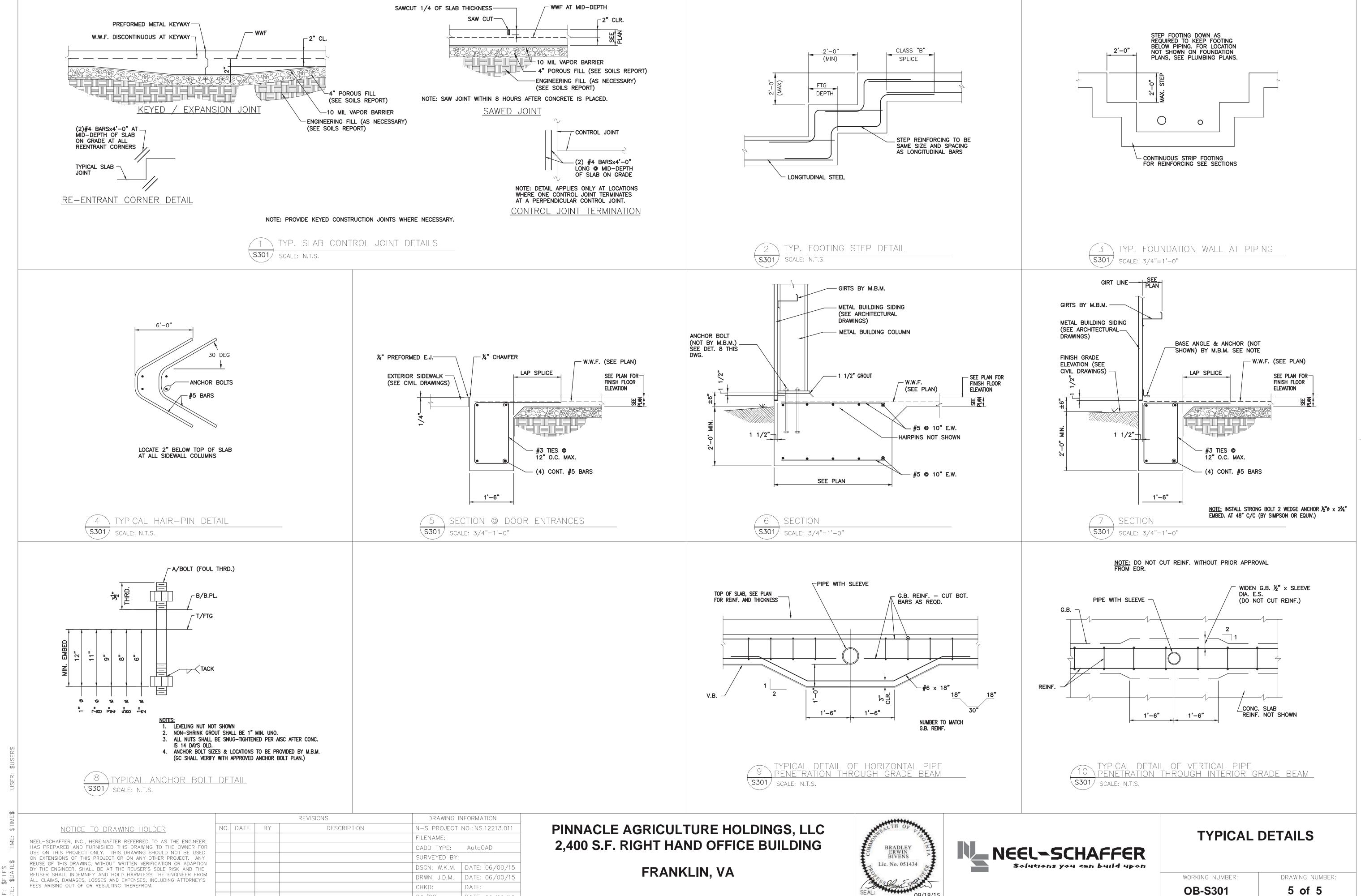
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4 of 5

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OB-S102



QA/QC:

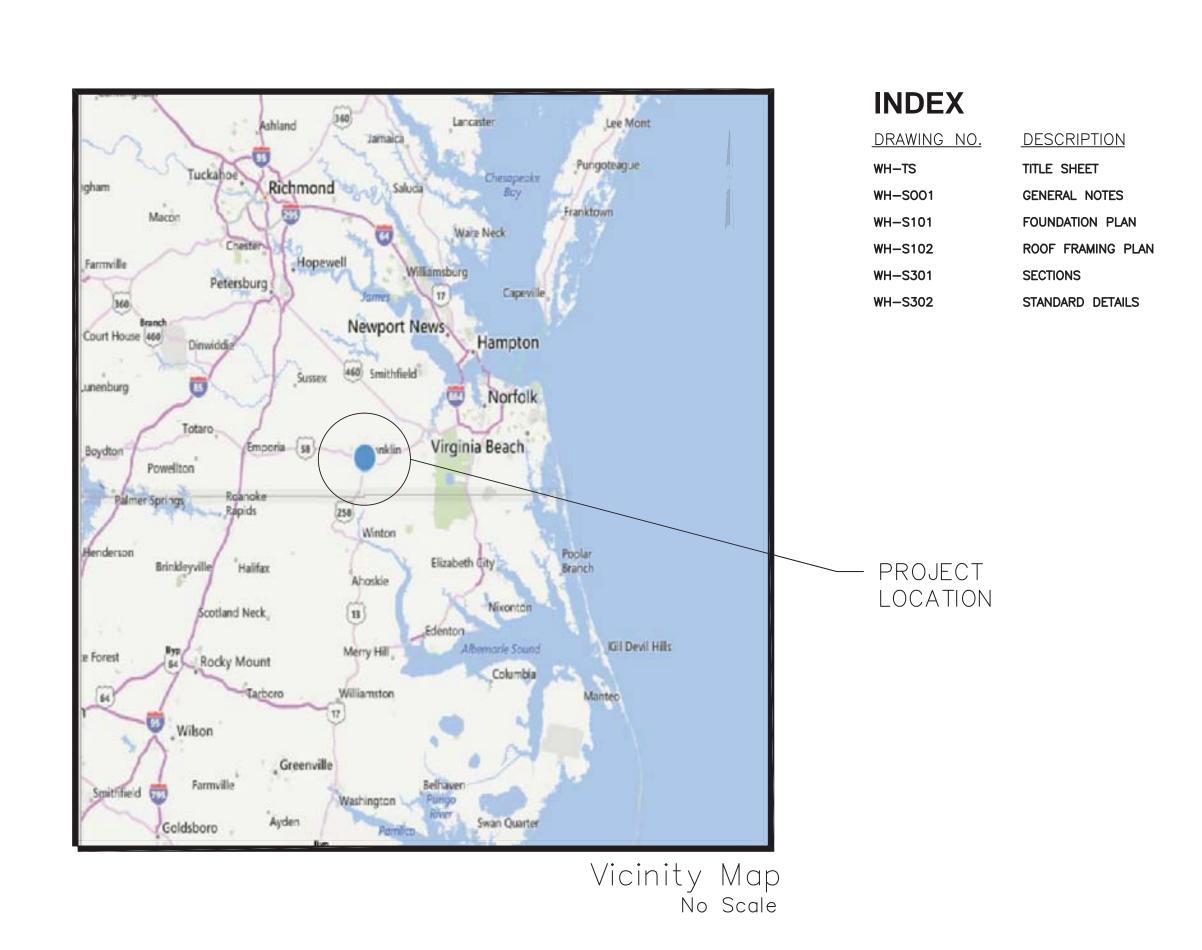
DATE: 06/00/15



WAREHOUSE FOR

PINNACLE AGRICULTURE HOLDINGS, LLC

FRANKLIN, VIRGINIA
AUGUST, 2015



Approved by: Neel-Schaffer

GENERAL:

- 1. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2009 EDITION.
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- 3. THE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO BIDDING OF ANY DISCREPANCY BETWEEN PLANS, DETAILS, AND/OR SPECIFICATIONS.

4. DESIGN LOADS:

SEE STRUCTURAL DRAWINGS FOR THE CONSTRUCTION MATERIALS USED IN THE PROJECT. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER FOR

B. LIVE LOADS (psf): ROOF (REDUCIBLE)
C. SNOW LOADS: GROUND SNOW LOAD (Pg)
D. WIND LOADS: BASIC WIND SPEED (3 SECOND GUST)

VERIFICATION OF THE CAPACITY OF THE STRUCTURE.

INTERNAL PRESSURE COEFFICIENT (GCpi):..

REFERENCE 1/S001
E. SEISMIC LOADS: EARTHQUAKE IMPORTANCE FACTOR (Ie):
EARTHQUAKE IMPORTANCE FACTOR (Ie):
SITE CLASS (ASSUMED):
SPECTRAL RESPONSE COEFFICIENTS: (SDS)
SEISMIC DESIGN CATEGORY:
BASIC SEISMIC-FORCE RESISTING SYSTEM:
STRUCTURAL SYSTEM NOT
SPECIFICALLY DETAILED FOR

DESIGN WIND PRESSURE FOR COMPONENTS & CLADDING (psf):

	SEISMIC RESISTAI	NCE
	DESIGN BASE SHEAR (kips):	046\
I	SEISMIC RESPONSE COEFFICIENT (Cs):	<u>0.04</u> 6
I	RESPONSE MODIFICATION COEFFICIENT (R):	<u>3.5</u>
I	ANALYSIS PROCEDURE:	

MODEL: TOYOTA 8FGU25 FORKLIFT TIRE TYPE: PNEUMATIC LOAD CAPACITY: 5,000 LBS

G.TRUCK LOAD: HSS 20-44 *TRUCK LOAD ONLY APPLIED TO TRUCK LANE INDICATED ON PLAN

5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ARE

- 6. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. VISUAL OBSERVATIONS BY THE STRUCTURAL ENGINEER'S OFFICE DOES NOT REPLACE REQUIRED INSPECTIONS OR TESTING PERFORMED BY THE TESTING AGENCY OR SPECIAL INSPECTOR.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION MATERIALS ARE SPREAD OUT ON FRAMED FLOORS/ROOF SUCH THAT THE DESIGN LOADS LISTED ABOVE ARE NOT EXCEEDED.

NOTICE TO DRAWING HOLDER

FEES ARISING OUT OF OR RESULTING THEREFROM.

SITE PREPARATION:

1. ALL FOOTINGS AND FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF. FOOTINGS ARE TO BEAR ON UNDISTURBED SOIL OR SATISFACTORY, COMPACTED STRUCTURAL FILL AS APPROVED BY THE GEOTECHNICAL ENGINEER.

2. CONTRACTOR TO INVESTIGATE ACTUAL LOCATIONS OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATING, AND ADVISE ENGINEER OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES TO BE CARRIED OUT WITH EXTREME CAUTION.

3. PROVIDE 6" OF COMPACTED CRUSHED STONE AND POLYETHYLENE VAPOR BARRIER UNDER ALL SLABS ON GRADE. CRUSHED STONE SHALL BE AS SPECIFIED BY THE GEOTECH REPORT.

4. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT BY ECS CONSULTANTS AND FOLLOW ALL RECOMMENDATIONS.

5. COMPACTED FILL SHALL EXTEND 5'-0" OUTSIDE THE EXTERIOR BUILDING LINE.

6. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS FOR SITE PREPARATION IN SOLI REPORT BY ECS, DATED 05/20/15.

METAL BUILDING:

1. COORDINATE FOUNDATION PLAN WITH METAL BUILDING ANCHOR BOLT PLAN PROVIDED BY THE METAL BUILDING MANUFACTURER. ACTUAL COLUMN LOCATIONS MAY NOT MATCH FOUNDATION PLAN. NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE NOTED.

2. ALL METAL BUILDING COLUMN BASES SHALL BE STRUCTURALLY PINNED BASES.

3. METAL BUILDING SUBMITTALS INCLUDING ANCHOR BOLT PLAN AND FOUNDATION REACTIONS SHALL BE REVIEWED BY THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION OF FOUNDATION.

4. METAL BUILDING MANUFACTURER SHALL LIMIT BUILDING DRIFT TO

5. DO NOT PROVIDE ADDITIONAL VERTICAL BRACING OR ADDITIONAL

6. LIMIT METAL BUILDING COLUMN DEPTHS 24" AT THE BASE. LIMIT METAL BUILDING COLUMN WIDTHS 10" AT THE BASE.

7. METAL BUILDING MANUFACTURER TO DESIGN AND LOCATE PURLINS TO SUPPORT LIGHT FIXTURES AND MECHANICAL DUCTS AS

COLLATERAL LOADING:

WAREHOUSE BUILDING - 8 psf

ITEMS SUPPORTED BY METAL BUILDING FRAME: *SPRINKLER SYSTEM *HVAC DUCTS *LIGHTING

STRUCTURAL STEEL:

WELD SHALL BE 3/16".

*INSULATION

1. STRUCTURAL STEEL DESIGN CODE: AISC STEEL CONSTRUCTION MANUAL (THIRTEENTH ED.).

2. ALL STRUCTURAL STEEL PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. STEEL PIPING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53, GRADE B (SCHEDULE 80). COORDINATE STEEL FINISHES WITH OWNER.

3. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.

4. UNLESS OTHERWISE NOTED, ALL SHOP CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. (3/4" DIA. BOLTS). 5. WELDS SHALL BE MADE WITH E-70XX ELECTRODES, MINIMUM SIZE FILLET

6. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA HIGH STRENGTH BOLTS (ASTM A-325). CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE. ALL A-325 BOLTS SHALL BE INSTALLED USING THE "TURN OF THE NUT" METHOD AS SPECIFIED IN THE MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.

7. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND THEREFORE REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE

CONCRETE:

1. CONCRETE DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - ACI 318-08.

2. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

3. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATING STEEL SHALL BE GRADE 60, DEFORMED BARS, CONFORMING TO ASTM A615.

4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-SP-66-LATEST EDITION).

5. ALL BAR SPLICES SHALL BE CLASS 'B' TENSION SPLICES, AS SPECIFIED IN ACI 318-08, UNLESS OTHERWISE NOTED. REINFORCEMENT SHALL NOT BE WELDED UNLESS APPROVED BY THE

TENSION LAP SPLICE LENGTHS						
BAR	fc=4000 psi					
SIZE	TOP BARS	OTHER BARS				
	В	В				
#3	25"	19"				
#4	33"	25"				
#5	41"	31"				
#6	49"	37"				
#7	71"	54"				
#8	81"	62"				
#9	91"	70"				
#10	102"	79"				
#11	114"	87"				

1. ABOVE CHART IS APPLICABLE TO GRADE 60 REINFORCEMENT. 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CAST BELOW THE BAR.

3. WHEN BAR COVER IS EQUAL TO OR LESS THAN THE BAR DIAMETER OR THE BAR SPACING IS TWICE THE BAR DIAMETER OR LESS, SPLICE LENGTHS SHALL BE INCREASED BY 100%.

6. ALL EMBEDDED STRUCTURAL STEEL SHALL BE ASTM A36, UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL BE A307 UNLESS NOTED OTHERWISE. ALL BOLTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED OR STAINLESS STEEL.

GRADE AT ALL RE-ENTRANT CORNERS. 8. EXTEND REINFORCING BARS PAST RE-ENTRANT CORNERS A MINIMUM

7. PROVIDE 2 - #4 DIAGONAL RODS IN THE TOP FACE OF SLAB ON

OF TENSION DEVELOPMENT LENGTH (Ld). 9. UNLESS OTHERWISE NOTED, REINFORCE ALL CONCRETE SLABS ON

GRADE WITH #3 BARS @ 12" O.C. EACH WAY AT MID DEPTH OF SLAB. 10. CONTRACTOR TO REFER TO DRAWINGS OF OTHER TRADES AND

VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN

11. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITY LINES THROUGHOUT BUILDING.

12. REFERENCE ARCHITECTURAL AND/OR PLUMBING DRAWINGS FOR ALL DRAIN REQUIREMENTS INCLUDING ANY CONCRETE FINISH REQUIREMENTS THAT MAY BE REQUIRED AROUND THESE DRAINS.

13. PROVIDE CONCRETE COVERAGE OF REINFORCEMENT AS FOLLOWS:

FOOTINGS: 3" BOTTOM & SIDES...... 1/2" TOP

14. PROVIDE CORNER BARS TO SPLICE WITH ALL CONTINUOUS

TRANSPORTING, FORMING, PLACING, AND CURING CONCRETE.

ON THE STRUCTURAL DRAWINGS.

REINFORCEMENT (REF. 8/S002). 15. ALL CONCRETE SHALL BE CURED USING WET METHODS OR CURING COMPOUND PER ACI 301. COMPLY WITH ACI 301 FOR MIXING,

16. MAXIMUM SPACING OF CONTROL JOINTS IN SLABS SHALL BE 16'-0" EACH WAY UNLESS SHOWN OTHERWISE ON THE PLANS.

17. ALL EPOXY SHALL CONFORM TO THE REQUIREMENTS OF HILTI HY 150 OR APPROVED EQUAL.

Item	Inspection / Test / Certification	C or P	Extent / Comments	Agent
1.00	Fabricators			
1.01	Review the quality control procedures of the following fabricators for completeness and adequacy relative to the fabricator's scope of work: Metal building manufacturer.	Periodic		1
2.00	Soils			
2.01	Verify bearing capacities of soils beneath footings.	Periodic	As recommended in approved soils report and specified in earthwork specifications.	1
2.02	Verify excavations are extended to the proper depth and have reached proper material	Periodic	As recommended by geotechnical engineer during construction.	1
2.03	Perform classification and testing of compacted fill materials.	Periodic	As recommended by geotechnical engineer during construction.	1
2.04	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Continuous	As recommended in approved soils report and specified in earthwork specifications.	1
2.05	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Periodic	As recommended by geotechnical engineer during construction.	1
3.00	Concrete Construction			
3.01	Inspect bolts to be installed in concrete prior to and during placement of concrete.	Continuous	During placement and concreting operations.	1
3.02	Inspection of anchors installed in hardened concrete. A pull test shall be performed on all post-installed anchor bolts.	Periodic	Prior to and during anchor installation.	1
5.00	Architectural / MEP Components			
5.01	Test smoke control systems.			
INSPECT	TION AGENTS			
1	Qualified Testing Agency			

Note: The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Inspection Agent(s) may be subject to the approval of the Building Official.

COMP. & CLADDING WIND					
LOADS FOR WALLS (psf)					
	EFFECTIVE WIND	90 MPH			
	AREA (sq. ft.)	WIND	SPEED		
	10	19.61	-21.24		
ZONE 4	20	18.74	-20.37		
	50	17.59	-19.22		
	100	16.72	-18.35		
	500	14.70	-16.34		
	10	19.61	-26.14		
	20	18.74	-24.40		
ZONE 5	50	17.59	-22.11		
	100	16.72	-20.37		
	500	14.70	-16.34		

		COMP. & CLADDING WIND						
		LOADS FOR ROOF (psf)						
1		EFFECTIVE WIND	SLOPE	ROOF				
		AREA (sq. ft.)	90 MPH W	IND SPEED				
		10	10.00	-21.42				
1	ZONE 1	20	10.00	-20.88				
	ZONET	50	10.00	-20.15				
		100	10.00	-19.61				
		10	10.00	-35.94				
	ZONE 2	20	10.00	-32.12				
	ZONEZ	50	10.00	-27.06				
		100	10.00	-23.24				
		10	10.00	-54.10				
	ZONE 3	20	10.00	-44.81				
_		50	10.00	-32.53				
		100	10.00	-23.24				

COMP. & CLADDING WIND LOADS						
FC	FOR ROOF OVERHANG (psf)					
EFFECTIVE WIND SLOPED RO						
	AREA (sq. ft.)	90 MPH WIND SPEED				
	10	-43.20				
ZONE 2	20	-43.20				
ZONEZ	50	-43.20				
	100	-43.20				
	10	-70.42				
ZONE 3	20	-64.07				
ZONE 3	50	-54.99				
	100	-48.64				

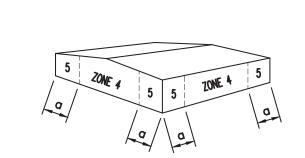
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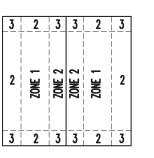
1. WIDTH OF EDGE STRIP a=7'-6".

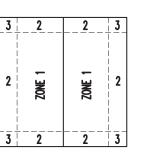
2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO INTERNATIONAL BUILDING CODE TABLE 1609.6.2.1(4) AND

3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES

4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH. 5. CONSIDER 3 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS FOR ROOF FRAMING AND 0 PSF MINIMUM DEAD LOAD FOR UPLIFT CALCULATIONS.



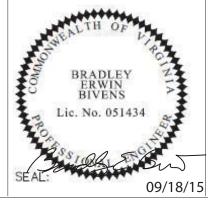




ROOF m</=10°

ROOF m>10°

1 \ WIND LOAD TABLES S001/ SCALE: N.T.S.





GENERAL NOTES

WORKING NUMBER: WH-S001

2 of 6

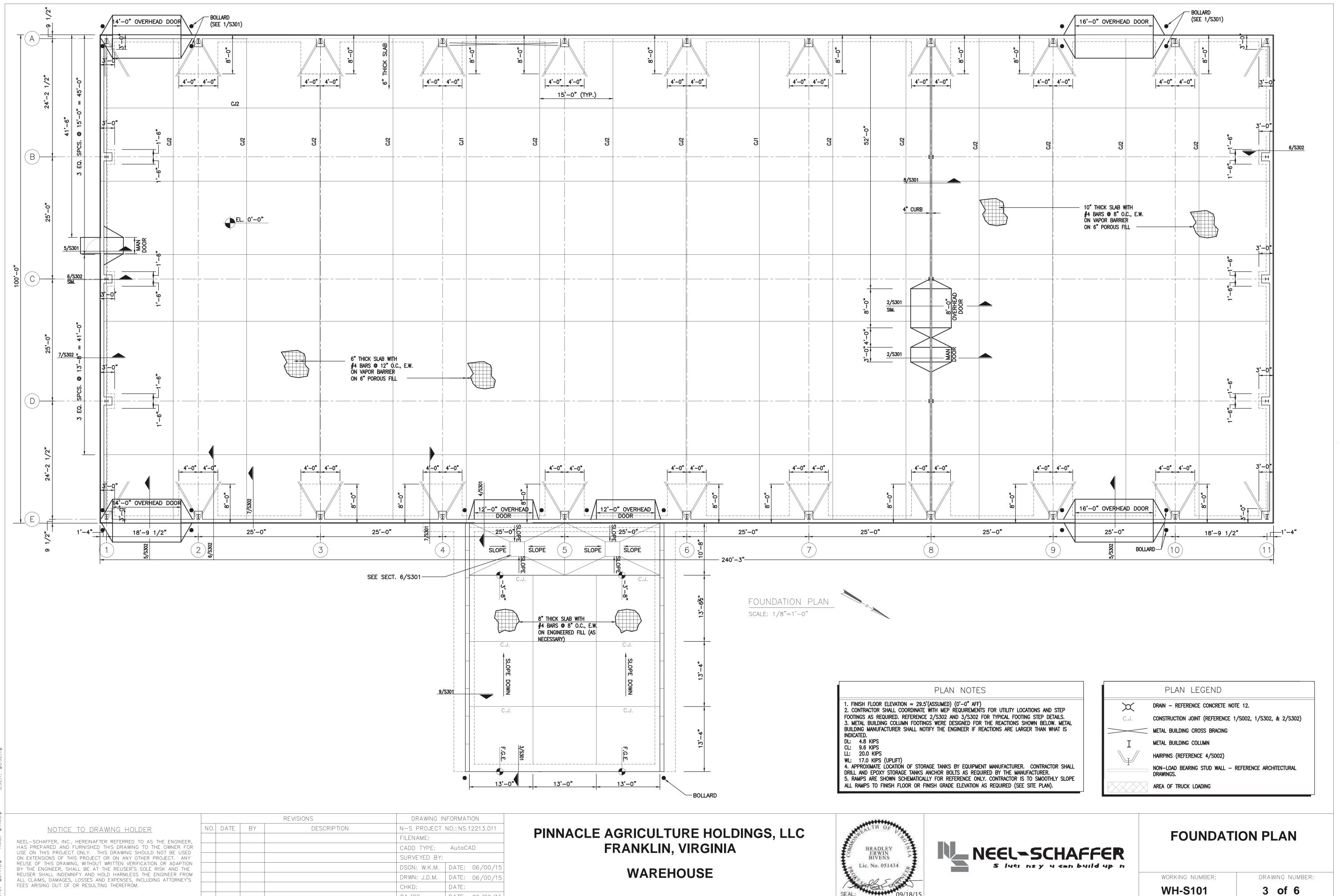
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REVISIONS DRAWING INFORMATION NO. DATE BY DESCRIPTION N-S PROJECT NO.: NS.12213.011 FILENAME CADD TYPE: AutoCAD SURVEYED BY: DSGN: W.K.M. | DATE: 06/00/15 DRWN: J.D.M. DATE: 06/00/15 CHKD: DATE: QA/QC: DATE: 06/00/15

PINNACLE AGRICULTURE HOLDINGS, LLC FRANKLIN, VIRGINIA

WAREHOUSE



QA/QC:

DATE: 06/00/15

FILE: \$FILE\$
DATE: \$DATE\$
TIME:

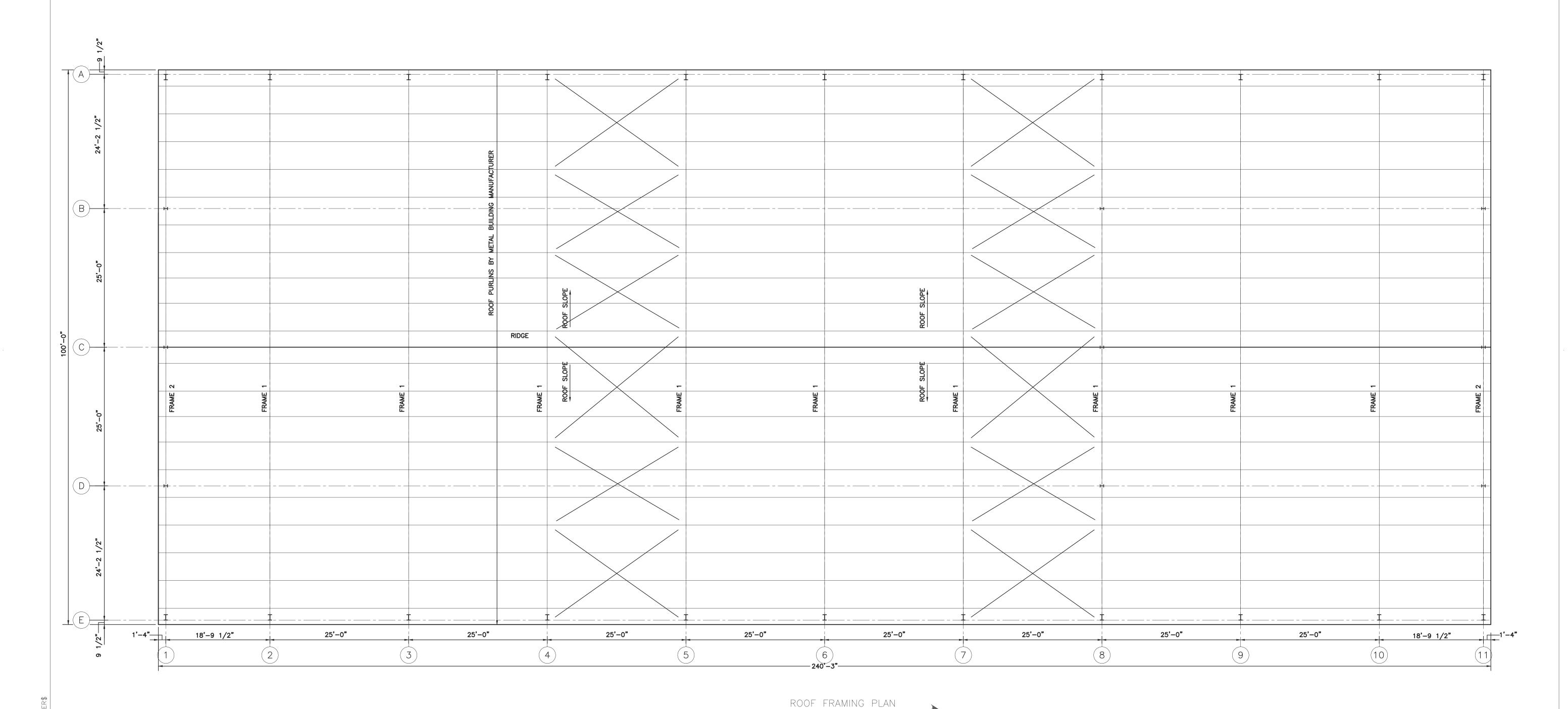
PLAN NOTES

1. METAL BUILDING MANUFACTURER TO DESIGN AND LOCATE PURLINS TO SUPPORT LIGHT FIXTURES, CEILINGS, MECHANICAL DUCTS, ETC. AS REQUIRED.

PLAN LEGEND

METAL BUILDING CROSS BRACING

I METAL BUILDING COLUMN

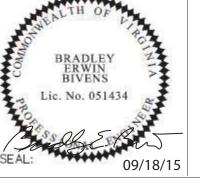


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PINNACLE AGRICULTURE HOLDINGS, LLC FRANKLIN, VIRGINIA

WAREHOUSE

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





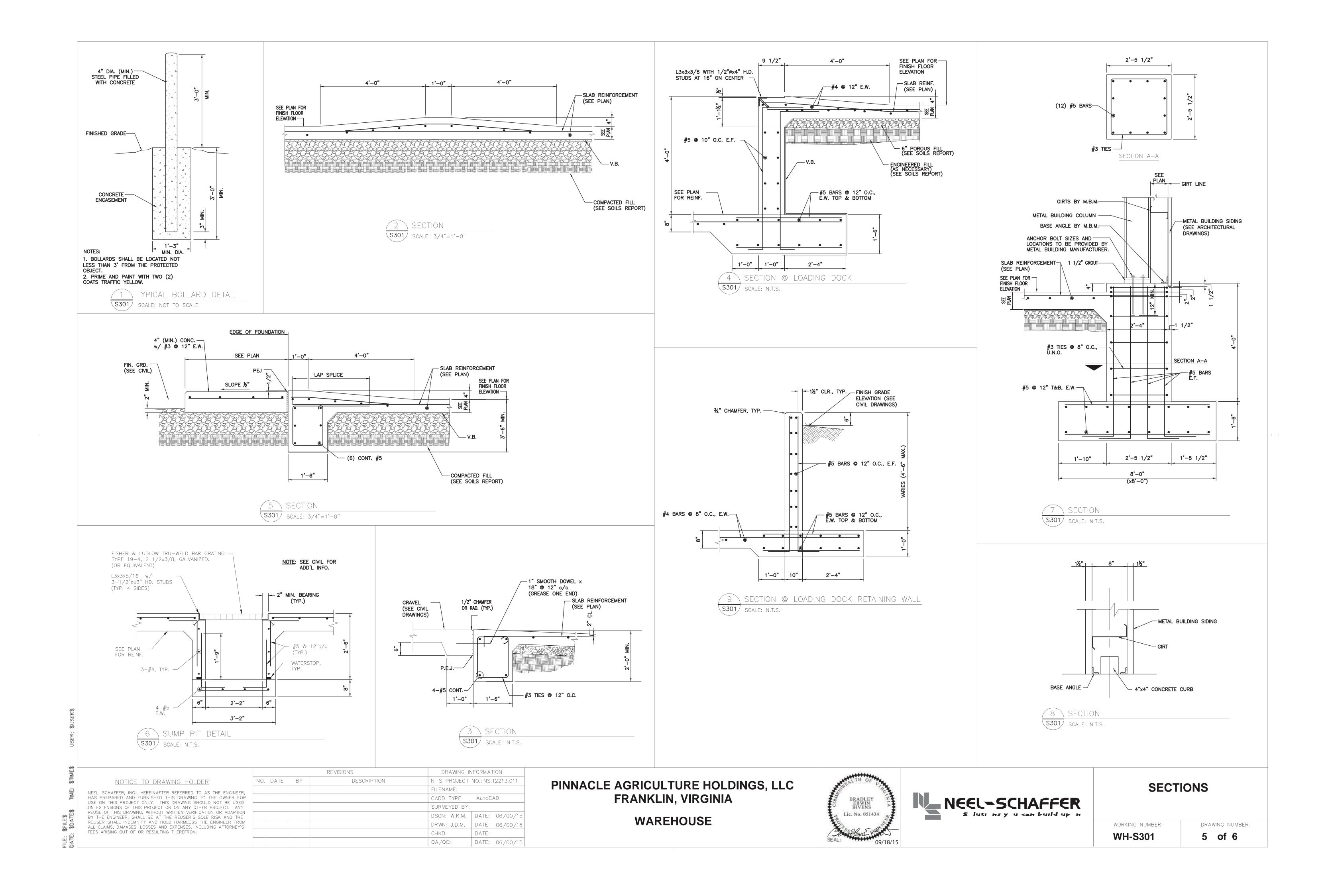
ROOF FRAMING PLAN

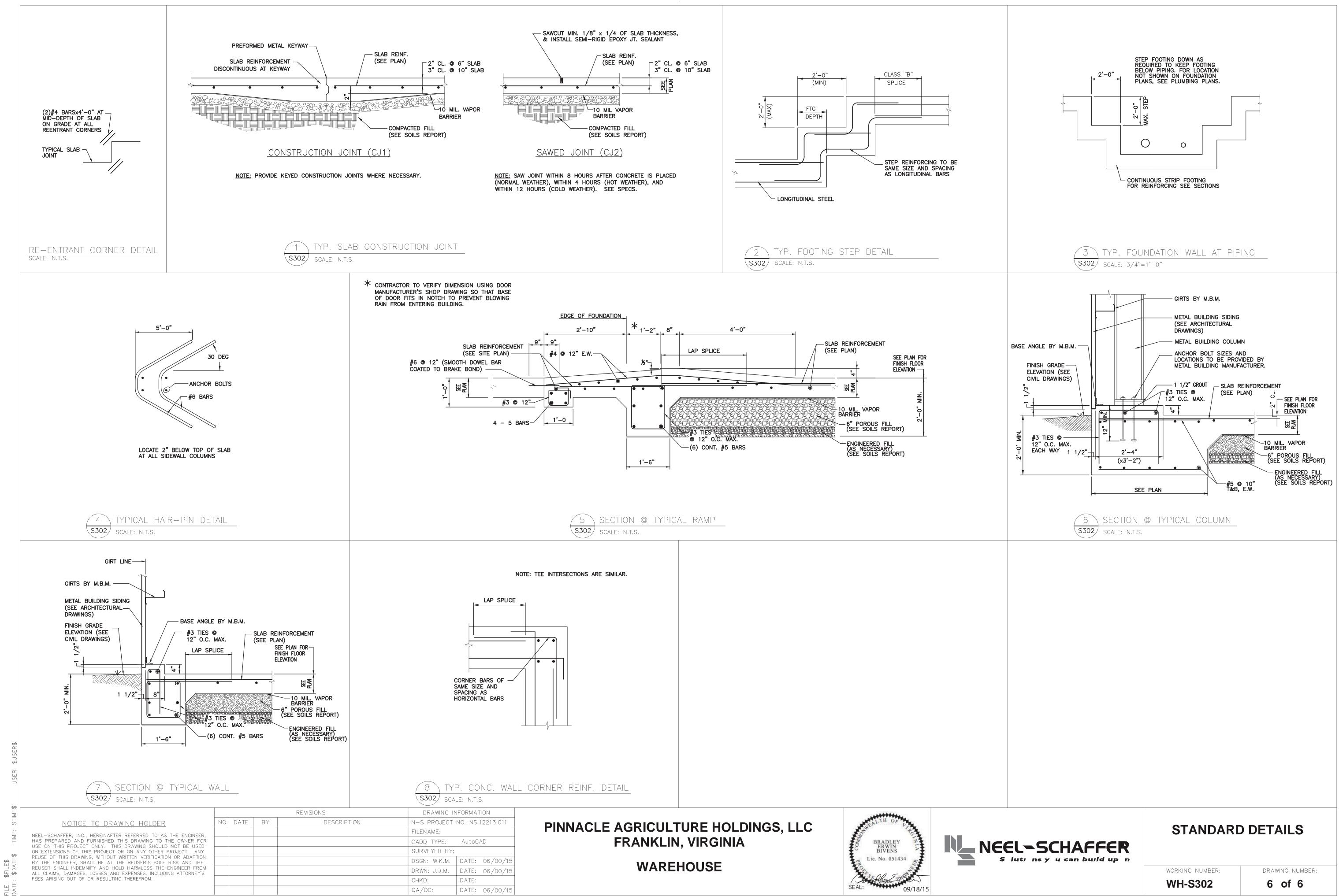
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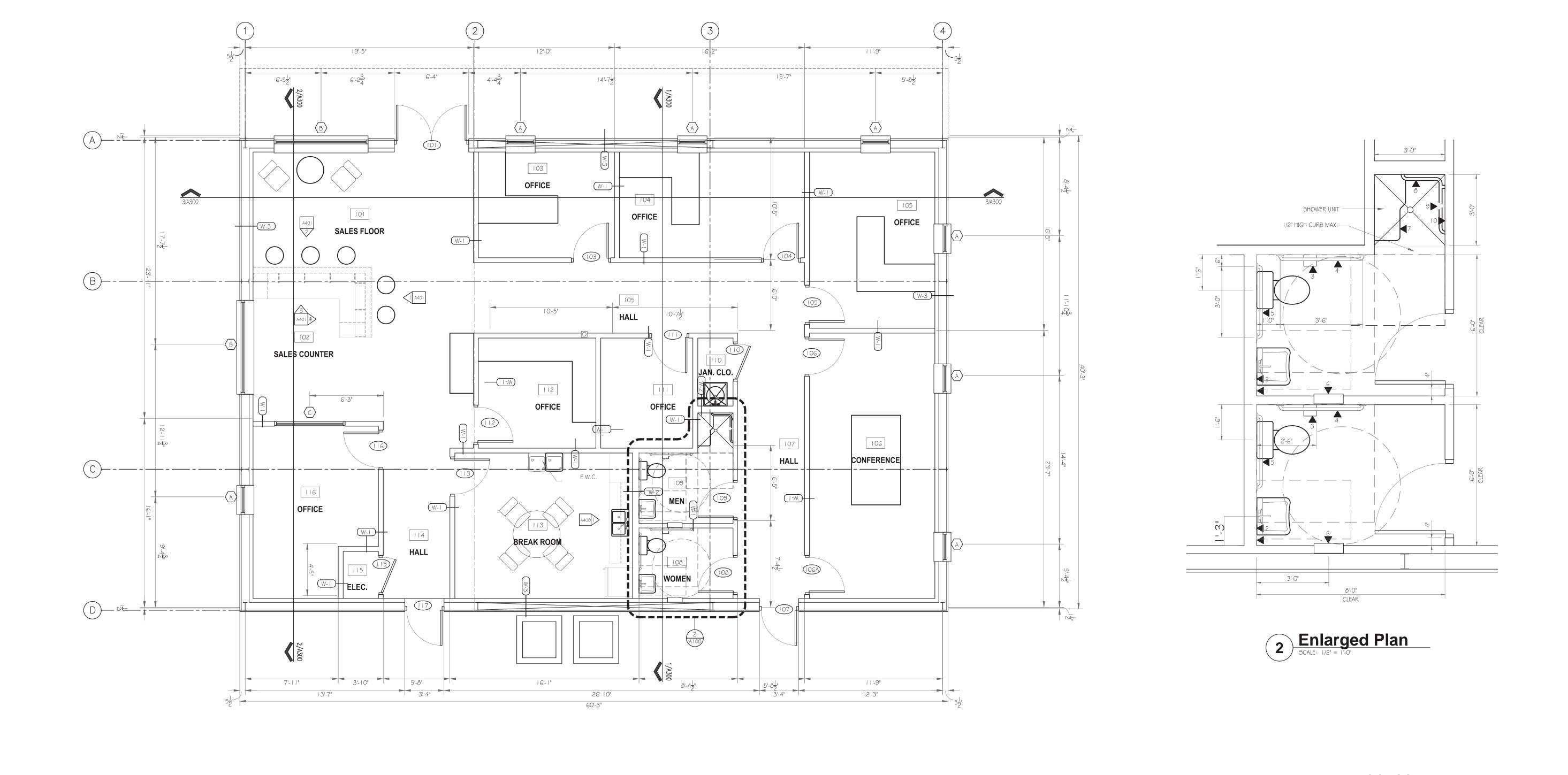
4 of 6

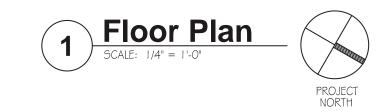
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file: \$file\$ date: \$date\$ time: \$time\$









PARTITION TYPES

W-1 2x4 WOOD STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BD. EACH SIDE. SOUND BATT INSULATION. EXTEND WALL 6" ABOVE CEILING.

W-2 2x6 WOOD STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BD. EACH SIDE. SOUND BATT INSULATION. EXTEND WALL 6" ABOVE CEILING.

W-3 METAL WALL PANEL, WALL GIRT, 3" VINYL FACED BATT INSULATION 2 x 4 WOOD STUDS @ 16" O.C., R13 BATT INSULATION, ONE LAYER OF 5/8" GYP. BD.

NOTE: ALL PLUMBING WALLS TO RECEIVE M.R. GYP. BD.

SEAL:

ACCESSORY LEGEND:

- ◀ I SOAP DISPENSER ✓ 2 MIRROR
- ◀ 3 TOILET PAPER DISPENSER
- ◀4 42" GRAB BAR
- **◀**5 36" GRAB BAR
- 6 P.T. DISPENSER / RECEPTICAL ▼ 7 FOLDING SEAT
- ◀8 GRAB BAR
- ◀9 SHOWER SPRAY UNIT W/ 60" HOSE MIN. ◀ 10 SHOWER CONTROLS

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

FRANKLIN, VA

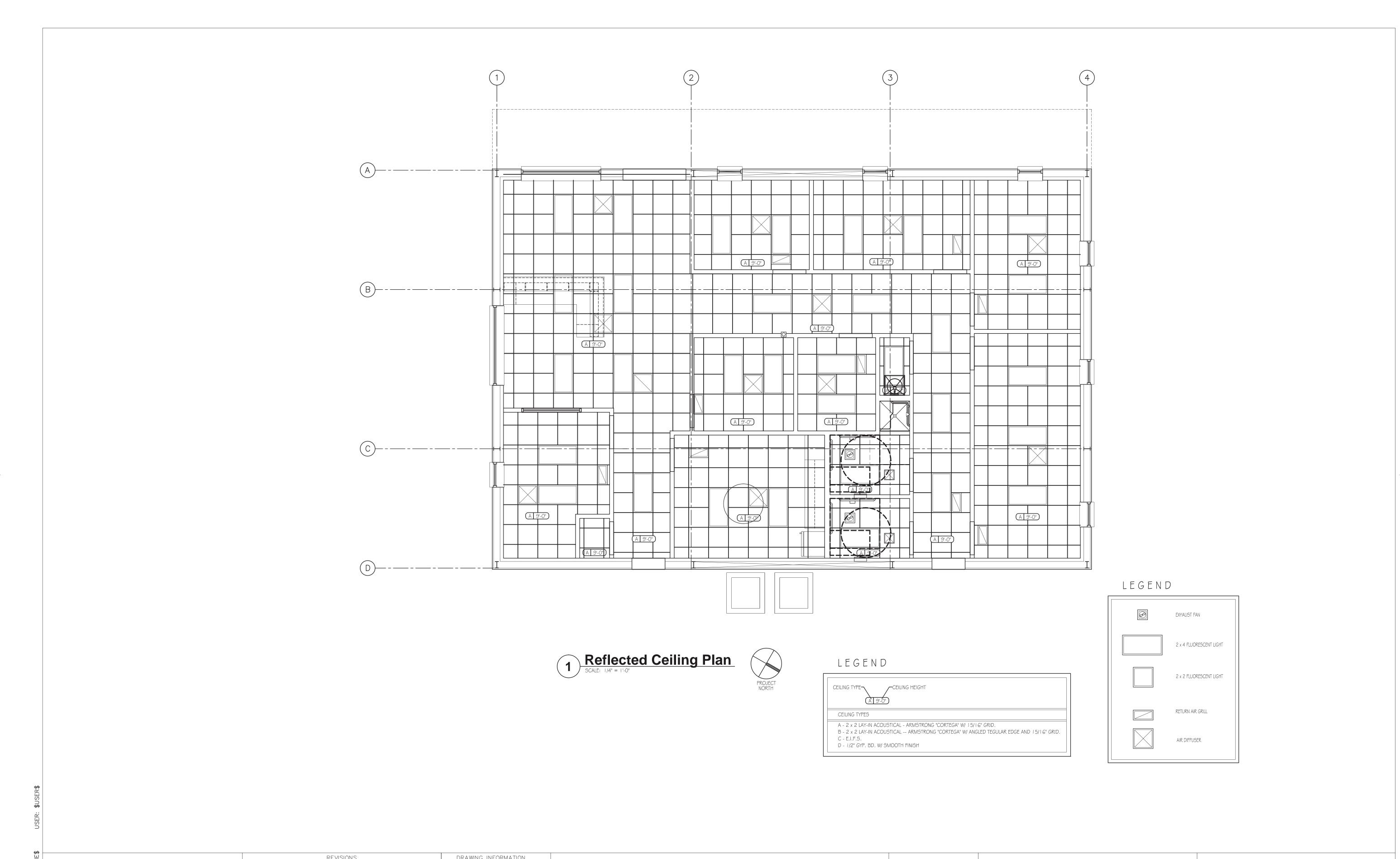


FLOOR PLAN (FOR REFERENCE ONLY)

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NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000		
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CADD TYPE: AutoCAD				AutoCAD		
				SURVEYED BY:		
				DSGN: J.M.	DATE: JUNE 15	
				DRWN: J.M.	DATE: JUNE 15	
				CHKD:	DATE:	
				QA/QC:	DATE:	



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				QA/QC:	DATE:	

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

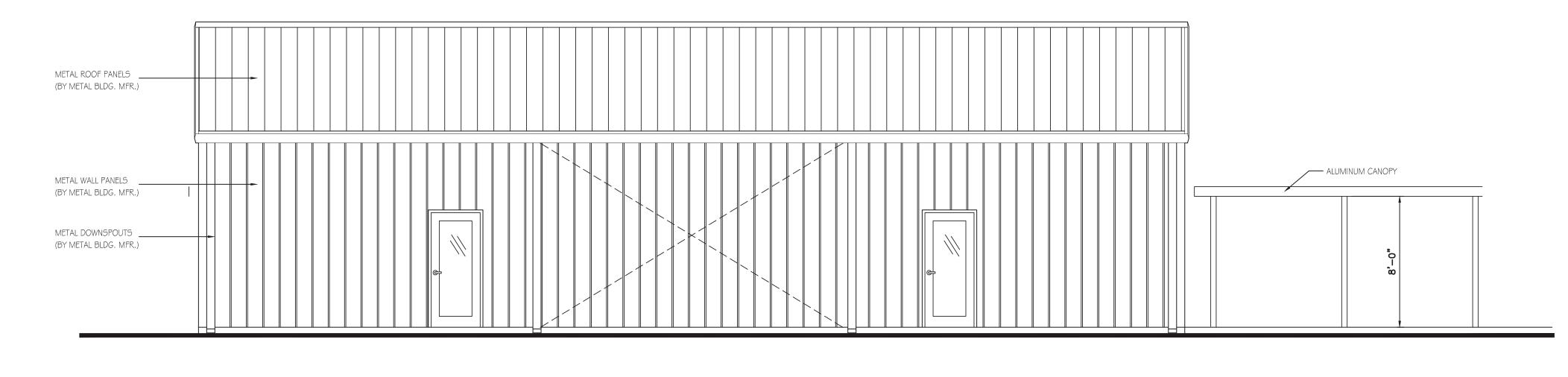
FRANKLIN, VA

SEAL:



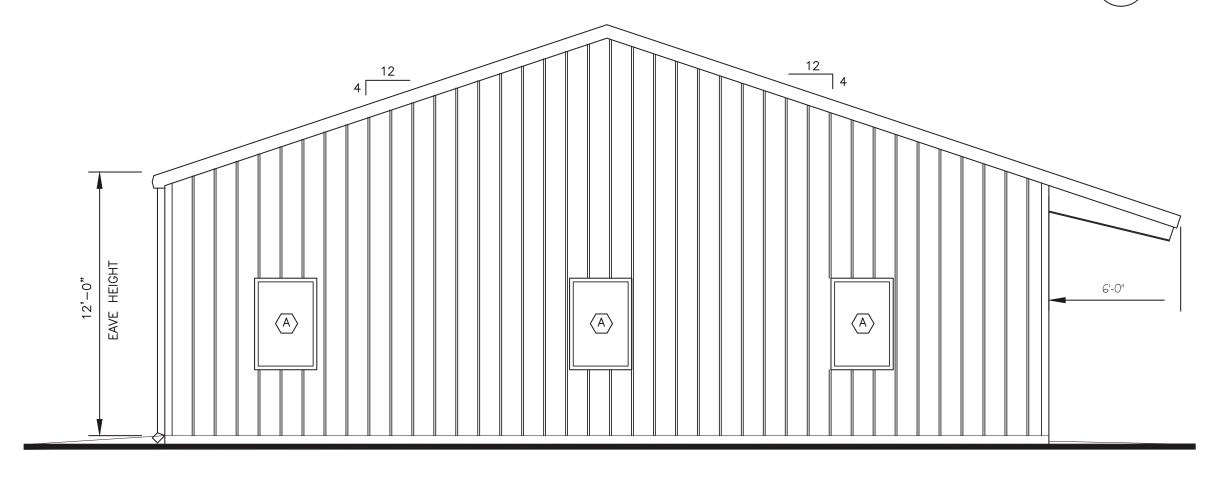
REFLECTED CEILING PLAN	
(FOR REFERENCE ONLY)	

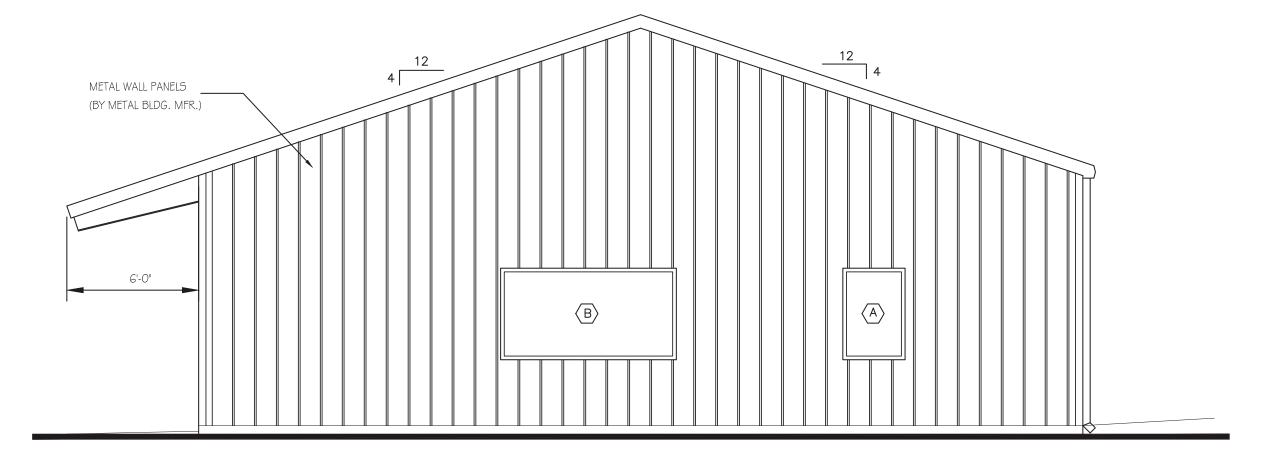
WORKING NUMBER:	DRAWING NUMBER:
OB-A101	2 of 9



South Elevation - Office

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



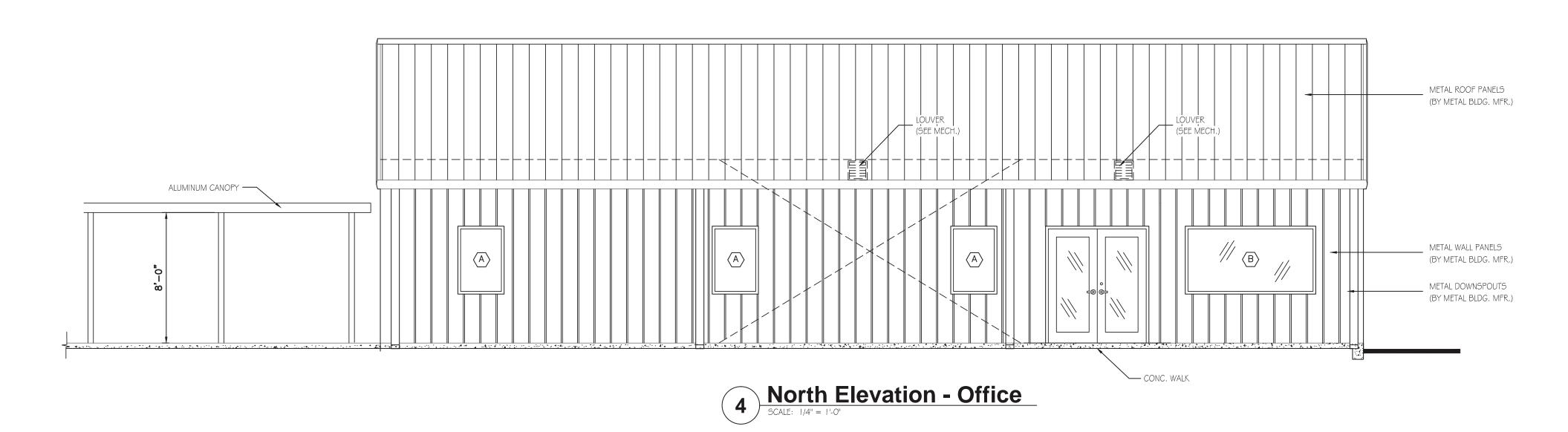


2 East Elevation - Office

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

West Elevation - Office

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



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				DSGN: J.M.	DATE: JUNE 15
				DRWN: J.M.	DATE: JUNE 15
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				QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

FRANKLIN, VA

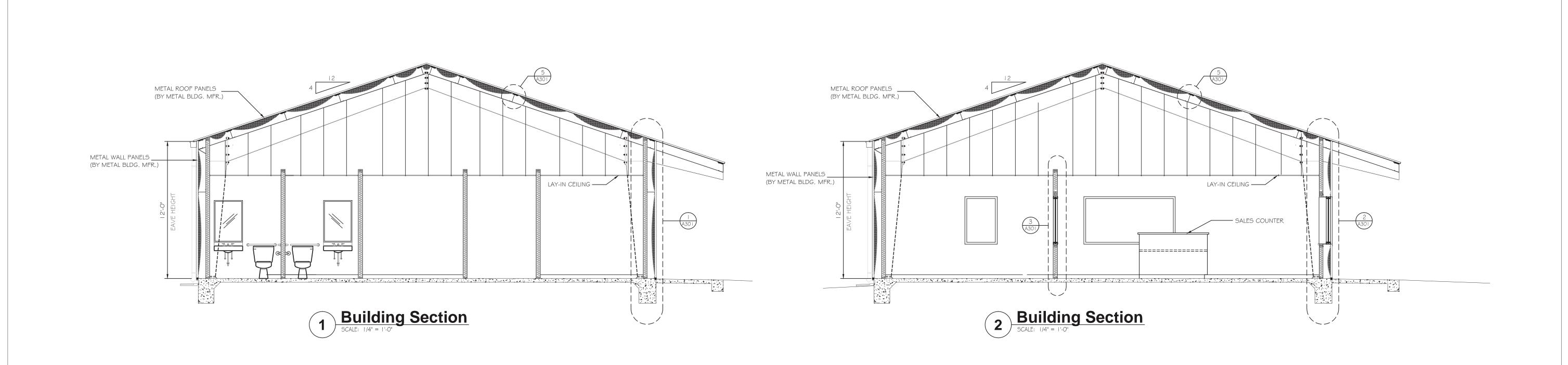
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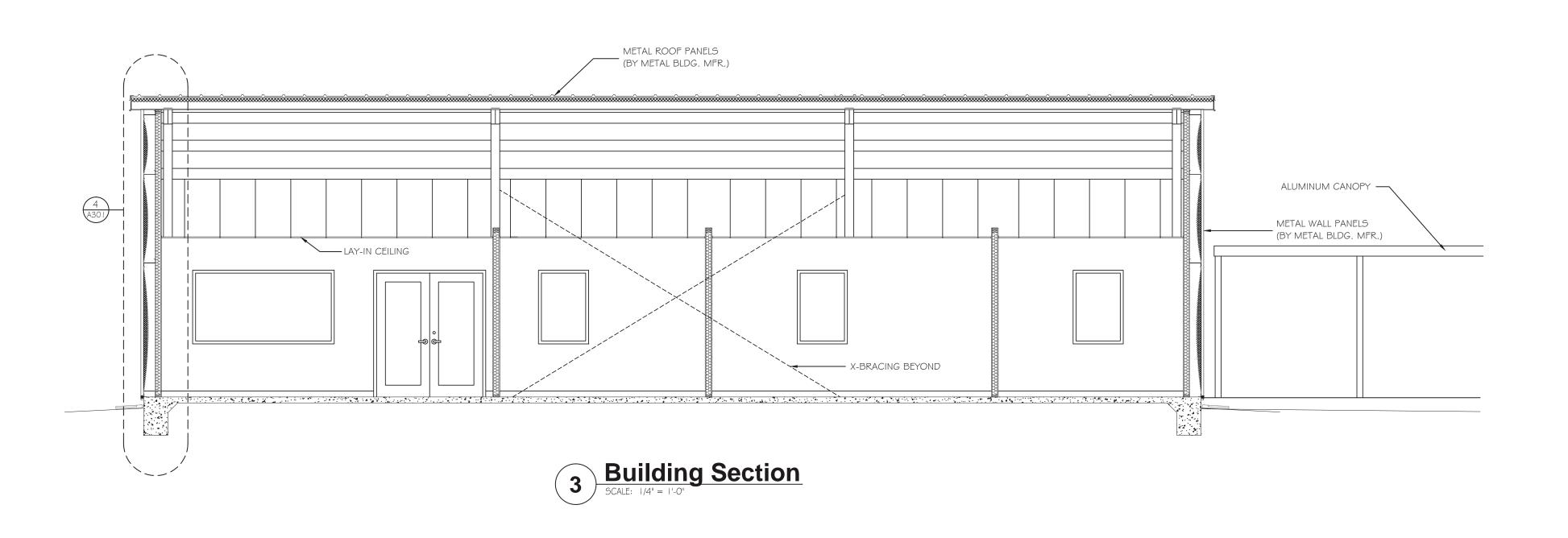


ELEVATIONS (FOR REFERENCE ONLY)

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				DRWN: J.M.	DATE: JUNE 15
				CHKD:	DATE:
				QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

FRANKLIN, VA

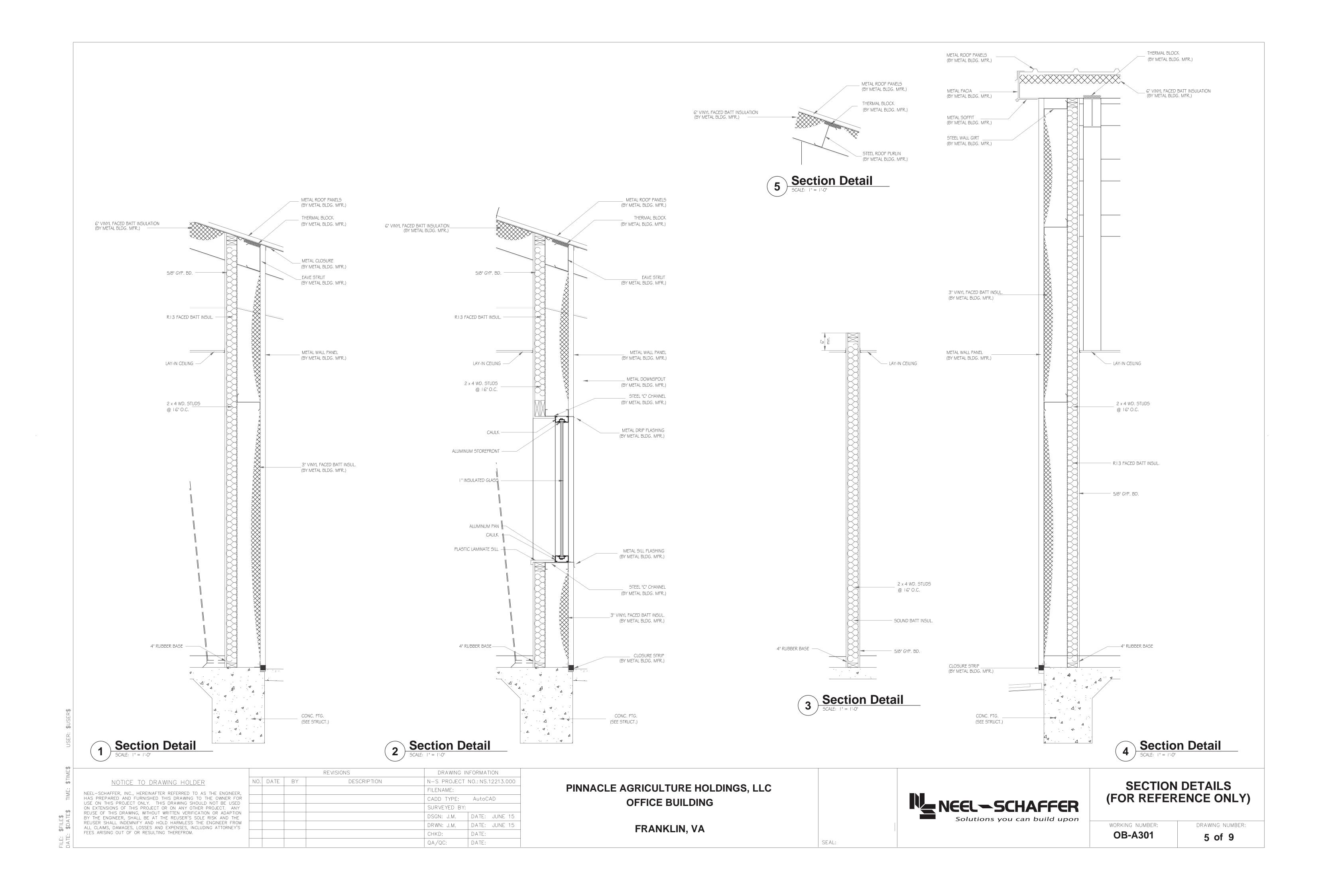


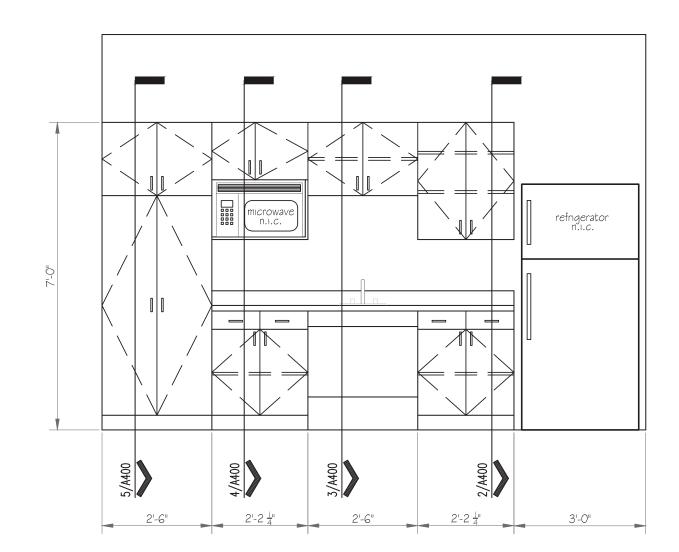
SECTIONS
(FOR REFERENCE ONLY)

WORKING NUMBER: **OB-A300**

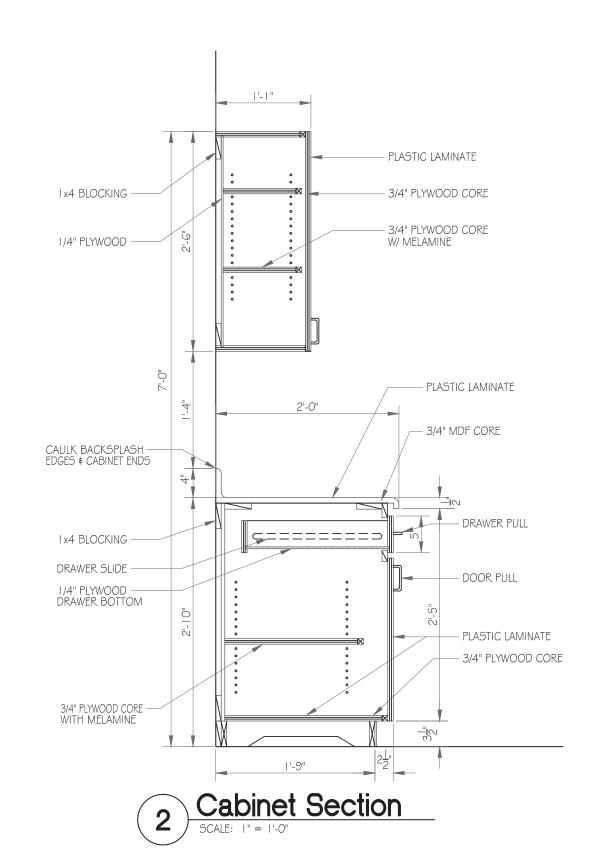
DRAWING NUMBER: 4 of 9

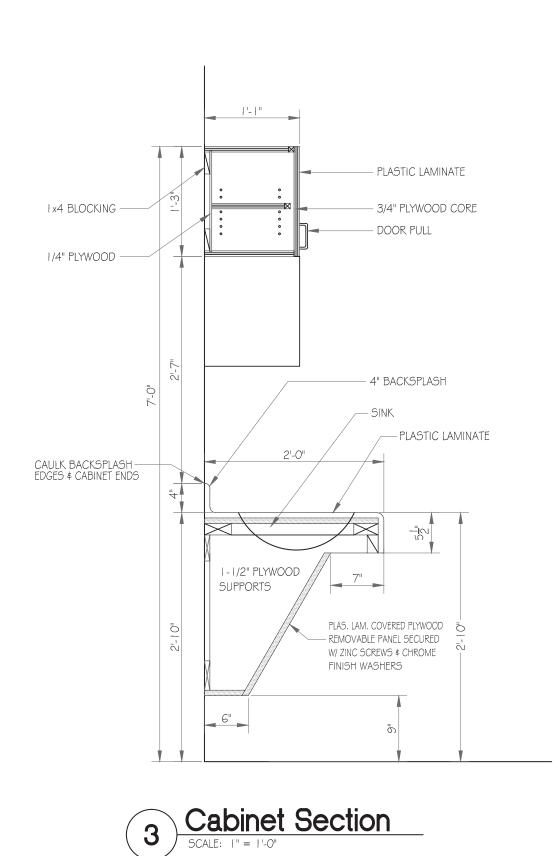
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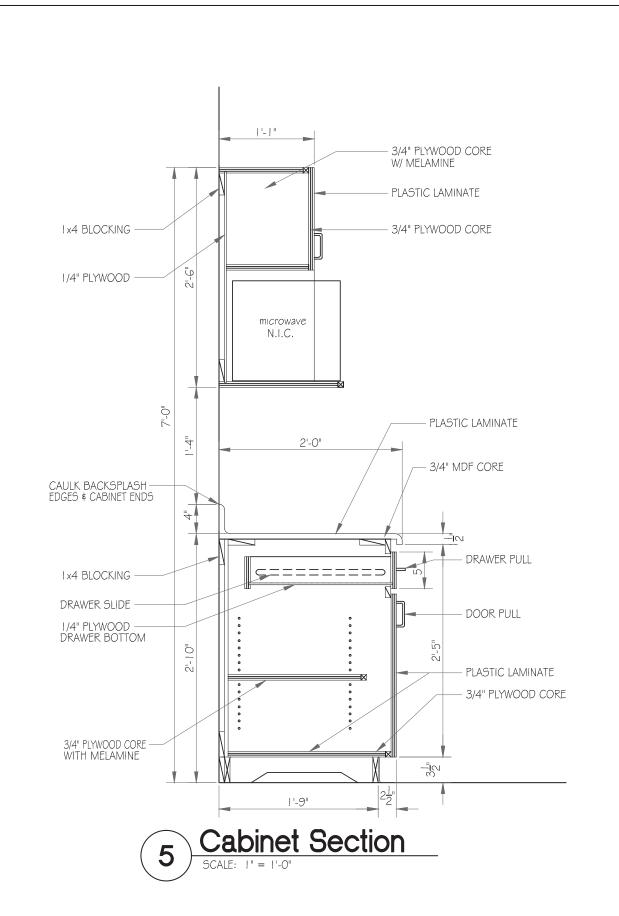


1 Interior Elevation SCALE: 1/2" = 1'-0"

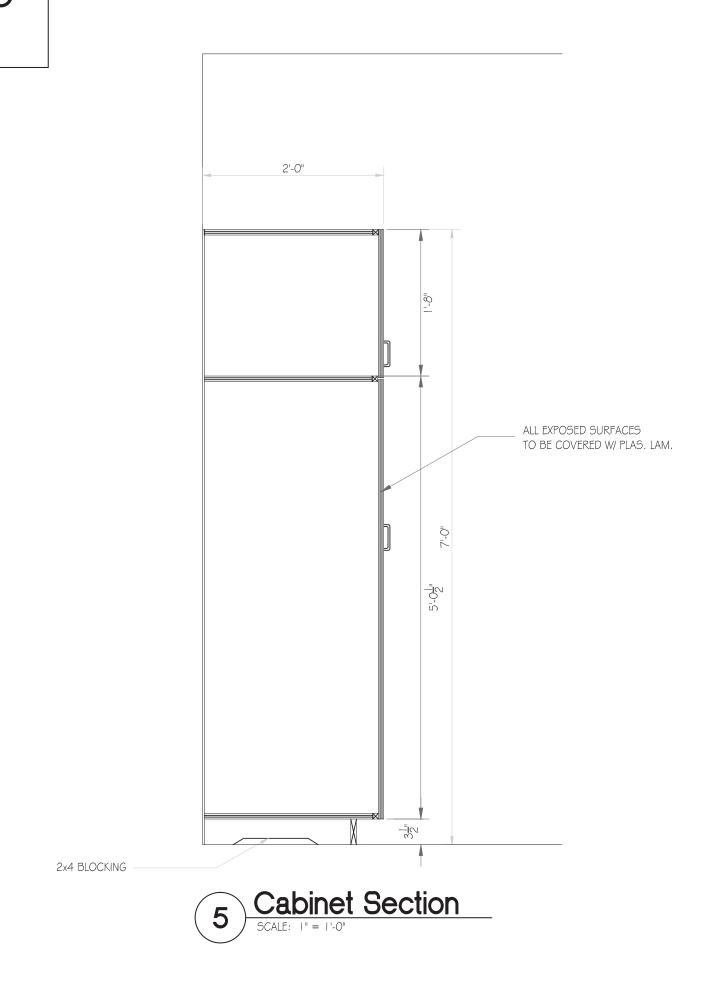




NOTE: FINISH ALL EXPOSED SURFACES WITH PLASTIC LAMINATE, UNLESS NOTED OTHERWISE



SEAL:



NOTICE TO DRAWING HOLDER NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER,

HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

					,		
REVISIONS				DRAWING INFORMATION			
NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000		
				FILENAME:			
				CADD TYPE:	AutoCAD		
				SURVEYED BY:			
				DSGN: J.M.	DATE: JUNE 15		
				DRWN: J.M.	DATE: JUNE 15		
				CHKD:	DATE:		
				QA/QC:	DATE:		

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

FRANKLIN, VA

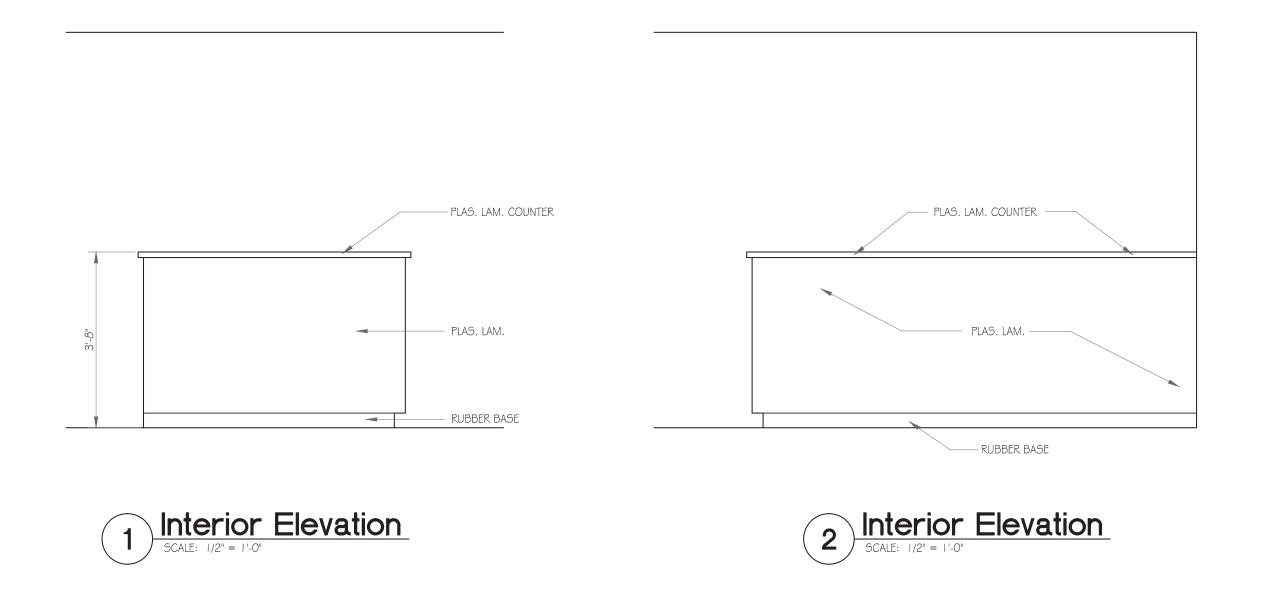


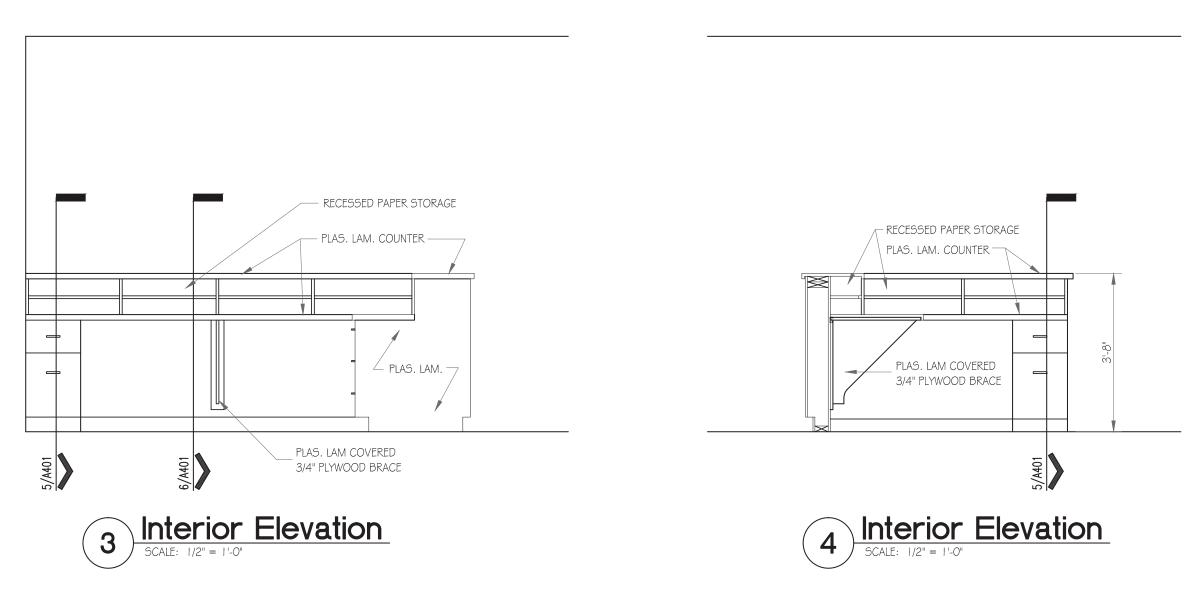
INTERIOR ELEVATIONS & CABINET DETAILS (FOR REFERENCE ONLY)

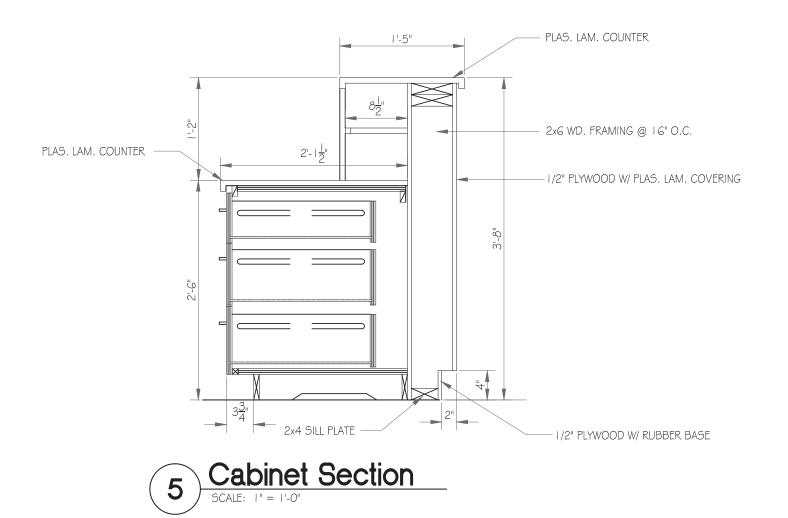
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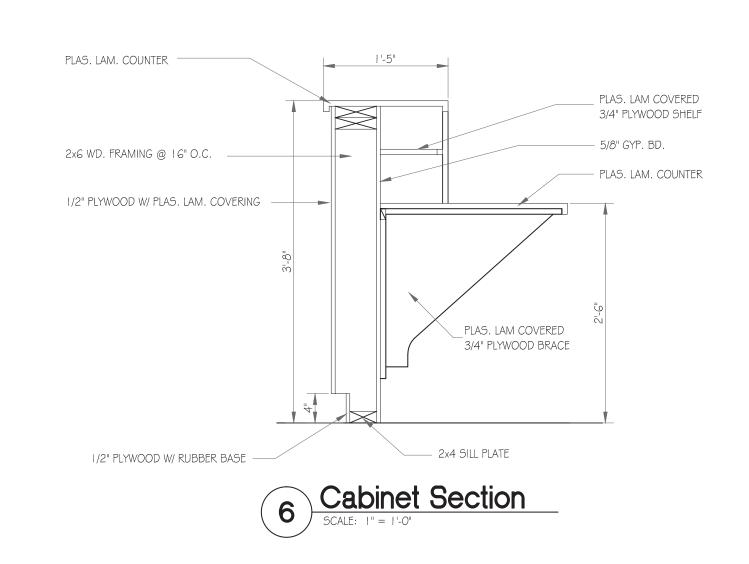
DRAWING NUMBER:

6 of 9









NOTE:
FINISH ALL EXPOSED SURFACES WITH PLASTIC
LAMINATE, UNLESS NOTED OTHERWISE

NOTICE TO DRAWING HOLDER

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			REVISIONS	DRAWING INFORMATION		
NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000	
				FILENAME:		
				CADD TYPE:	AutoCAD	
				SURVEYED BY:		
				DSGN: J.M.	DATE: JUNE 15	
				DRWN: J.M.	DATE: JUNE 15	
				CHKD:	DATE:	
				QA/QC:	DATE:	

PINNACLE AGRICULTURE HOLDINGS, LLC
OFFICE BUILDING

FRANKLIN, VA

SEAL:



INTERIOR ELEVATIONS & CABINET DETAILS
(FOR REFERENCE ONLY)

WORKING NUMBER: DRAWING NUMBER: 7 of 9

file: \$file\$ Date: \$date\$ time: \$time\$

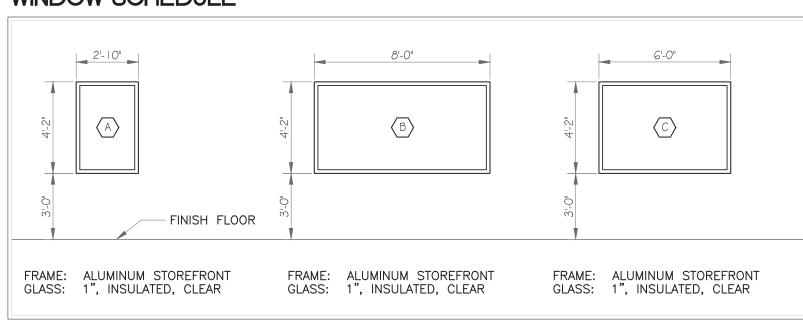
DOOR SCHEDULE

DOOR				FRAME		JAMB	
#	TYPE	H'WAREASET	FBNZEH	MAT'L	FINISH	DETAIL	REMARKS:
IFAIR 3	'0"xD7'C	o" O 3 LUM.	ANOD.	ALUM.	ANOD.	02	
103	С	02WD.	350TAT70	" H.M.	PAINT	01	
104	С	02WD.	3501'A170'O	" H.M.	PAINT	01	
105	С	02WD.	350TATT/O	" H.M.	PAINT	01	
106	С	02WD.	350TATNO	" H.M.	PAINT	01	
106A	С	02WD.	3501"A170'O	" H.M.	PAINT	01	
107	D	O ALUM.	34MQ70	" ALUM.	ANOD.	02	
108	Α	04WD.	3501"A170"O	" H.M.	PAINT	01	
109	А	04WD.	3501'A1WO	" H.M.	PAINT	01	
110	Α	OIWD.	350TATT/O	" H.M.	PAINT	01	
111	С	02WD.	3501'A1110'O	" H.M.	PAINT	01	
112	С	02WD.	3501'A170'O	" H.M.	PAINT	01	
113	В	02WD.	350TAINO	" H.M.	PAINT	01	
114	D	O ALUM.	3AMQP0	" ALUM.	ANOD.	02	
115	А	02WD.	350TAINO	" H.M.	PAINT	01	
116	С	02WD.	350 AINO	" H.M.	PAINT	01	

NOTES:

I. ALL DOORS TO BE | 3/4" THK. SOLID-CORE WOOD UNLESS NOTED OTHERWISE.

WINDOW SCHEDULE

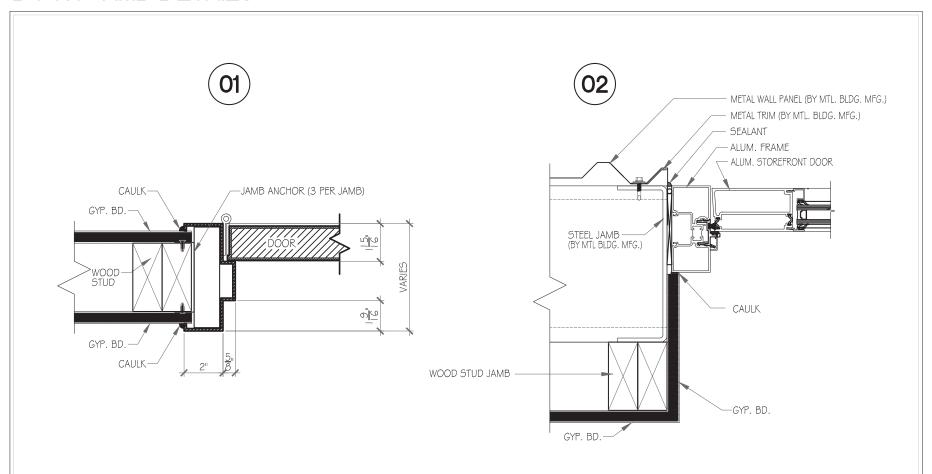


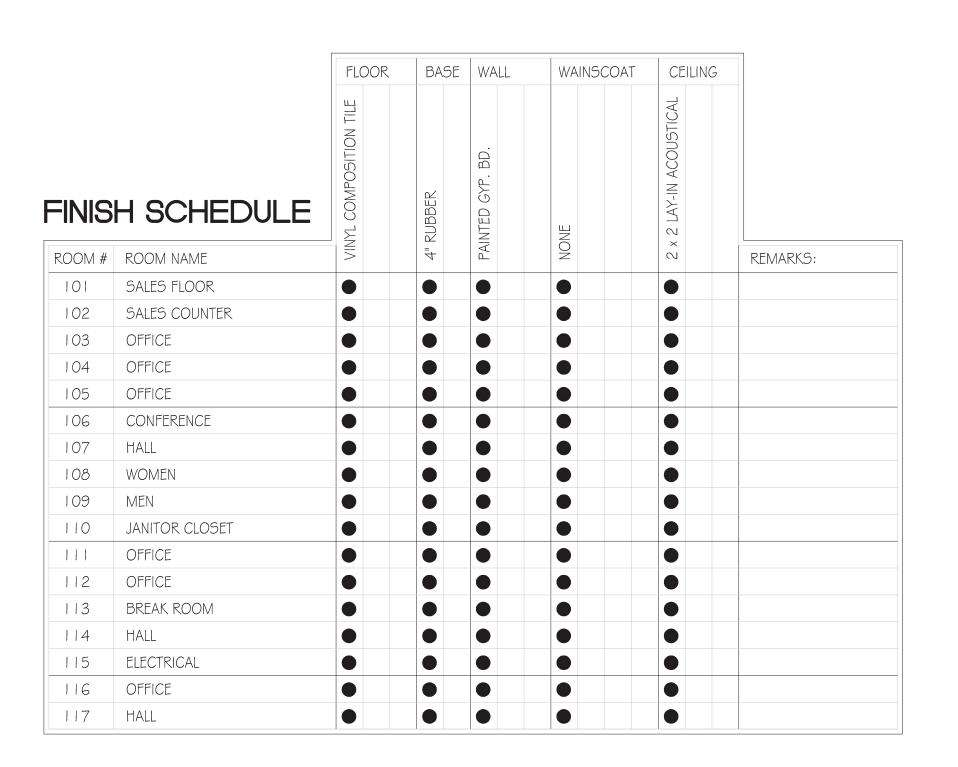
SEE SCHED.

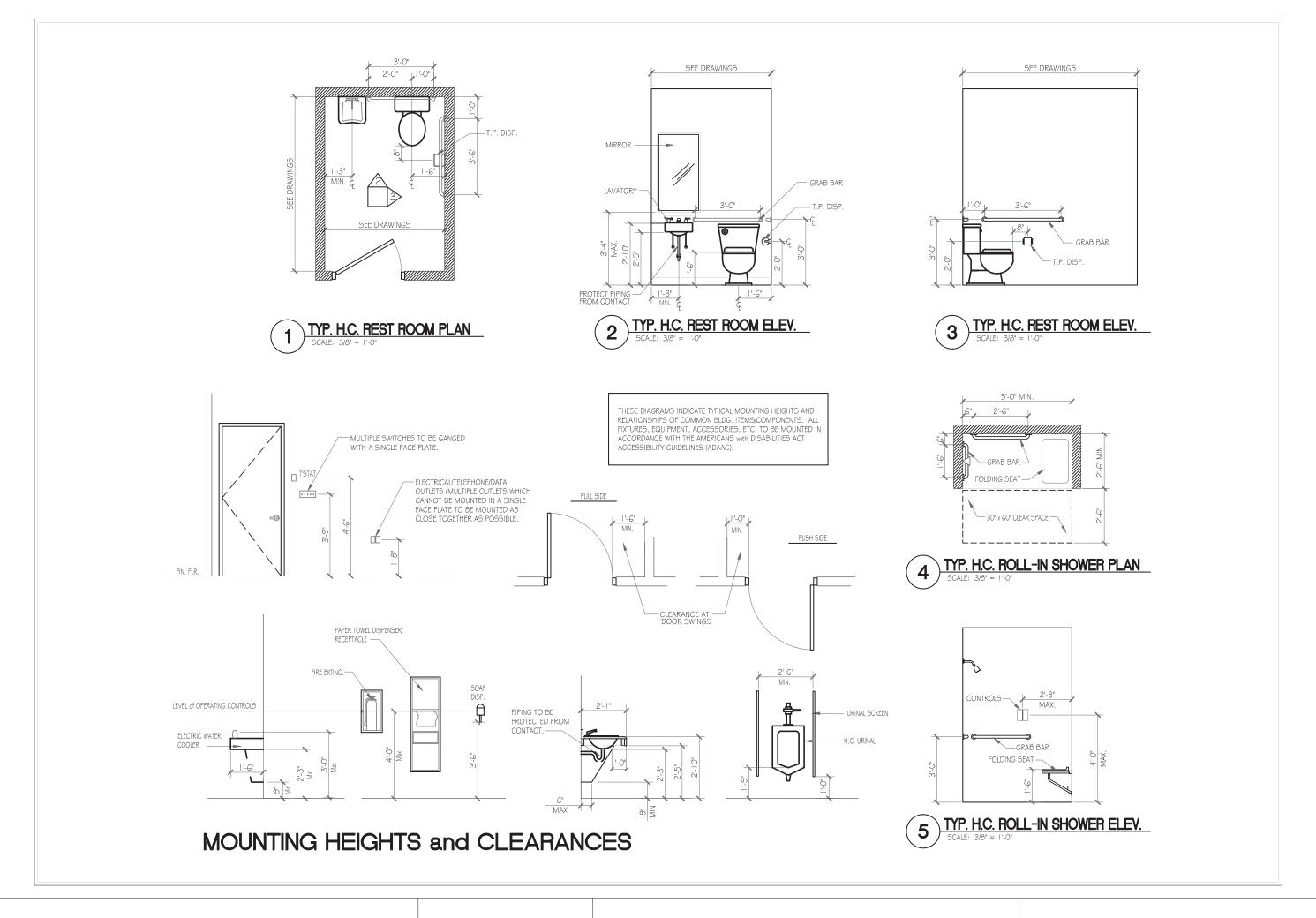
HARDWARE SCHEDULE

SET NO. I	SET NO. 2	SET NO. 3	SET NO. 4
I CYLINDER I CLOSER - BY DOOR MFR. I PUSH / I PULL - BY DOOR MFR. I THRESHOLD - BY DOOR MFR.	3 HINGES 3 SILENCERS I LOCKSET I STOP	I CYLINDER 2 CLOSERS - BY DOOR MFR. 2 PUSH / 2 PULL - BY DOOR MFR. I THRESHOLD - BY DOOR MFR. I FLOOR BOLT - BY DOOR MFR. I HEAD BOLT - BY DOOR MFR.	3 HINGES 3 SILENCERS I PRIVACY SET I STOP

DOOR JAMB DETAILS







SEAL:



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NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000
				FILENAME:	
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				SURVEYED BY:	
				DSGN: J.M.	DATE: JUNE 15
				DRWN: J.M.	DATE: JUNE 15
				CHKD:	DATE:
				QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC OFFICE BUILDING

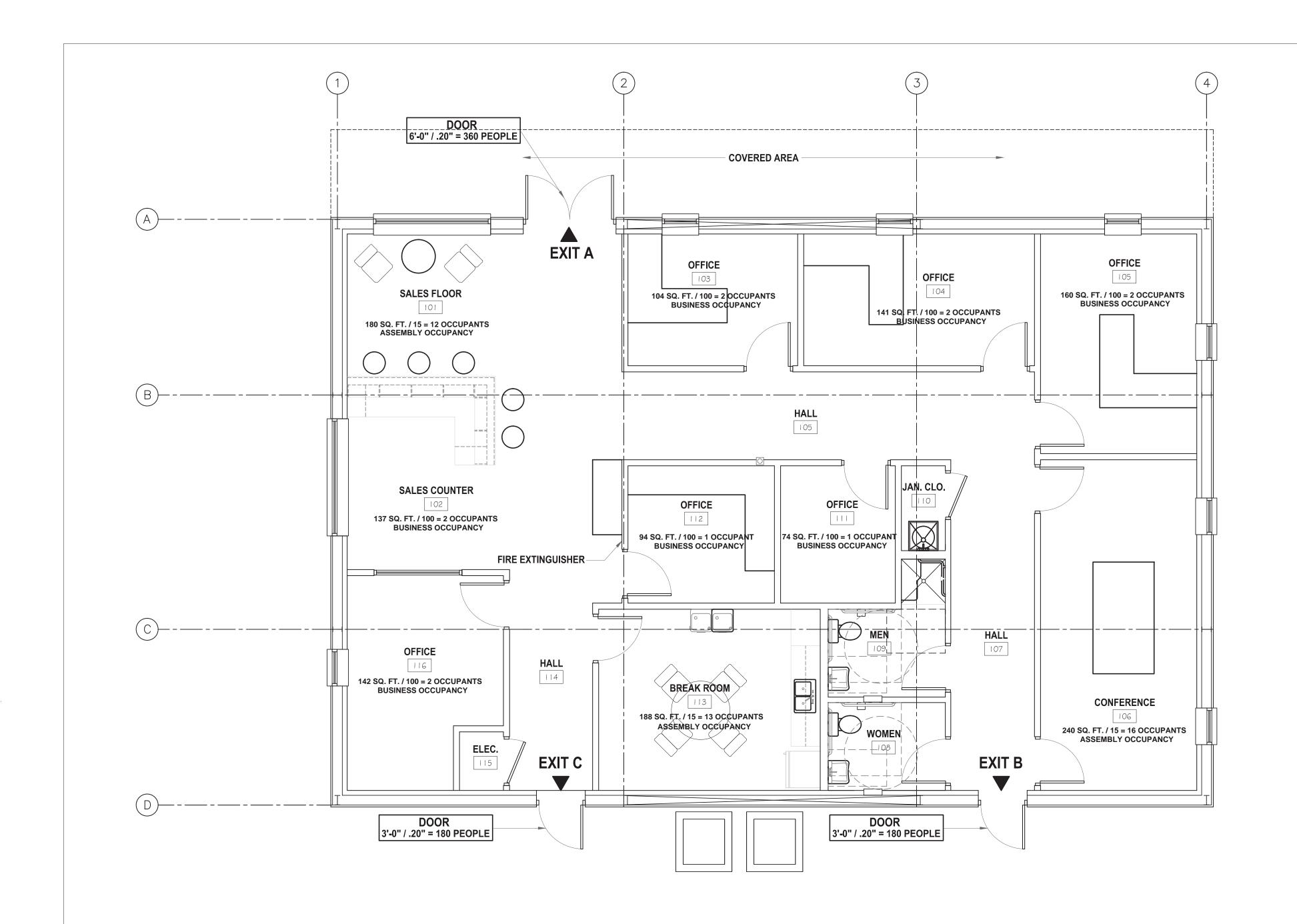
FRANKLIN, VA



DOOR, WINDOW & ROOM FINISH SCHEDULES & DETAILS (FOR REFERENCE ONLY)

WORKING NUMBER: DRAWING NUMBER:

OB-A500 8 of 9





EXIT WIDTH COMPLIANCE TABLE PER IBC 1005.1							
EXIT	OCCUPANT	WIDTH /	WIDTH	(INCHES)	NOTES		
	LOAD	PERSON	REQ'D	ACTUAL			
Α	15	0.2	3	72			
В	14	0.2	3	36			
С	14	0.2	3	36			
	43	TOTAL OCCUPANT	TOTAL OCCUPANT LOAD				

	TOILETS	ETS LAVATORIES	URINALS	SHOWERS	DRINKING	SERVICE SINKS
					FOUNTAINS	
FIXTURES REQUIRE	D					
MEN	1			0		I
WOMEN	I	I		0		
FIXTURES PROVIDE	ED .			•		
MEN	I			0		ı
WOMEN	I	I		0		
NOTES						
NOTE I	URINAL COUNT CA	N REPLACE UP TO 2/3	REQUIRED TOILETS			

CODE COMPLIANCE TABLE

PROJECT: Pinnacle Ag - Office Building - Franklin, VA

APPLICABLE CODES AND STANDARDS

IBC - INTERNATIONAL BUILDING CODE - 2009 EDITION

IFC - INTERNATIONAL FIRE CODE - 2009 EDITION NEC - NATIONAL ELECTRICAL CODE - 2008 EDITION

IPC - INTERNATIONAL PLUMBING CODE - 2009 EDITION

IMC - INTERNATIONAL MECHANICAL CODE - 2009 EDITION

BUILDING COMPONENTS	CODE APPLICA	CODE SECTIONS AND NOTES		
USE AND OCCUPANCY CLASSIFICATION	DESCRIPTION	VALUE		
PRIMARY OCCUPANCY	BUSINESS - GROUP B		IBC 303	
MIXED OCCUPANCY SEPARATION	N/A		IBC TABLE 508.4	
CONSTRUCTION TYPE	V-B, UNSPRINKLERED		IBC 602.2	
HEIGHT MODIFICATIONS				
TABULAR HEIGHT ALLOWED	40 FT.	12 FT	IBC TABLE 503	
NO. OF STORIES INCREASE	N/A	0	IBC 504.2	
TOTAL STORIES ALLOWED		2		
ACTUAL NO. OF STORIES =			HEIGHT IS IN COMPLIANCE	
AREA MODIFICATIONS			IBC 506	
BUILDING AREA TABULAR AREA ALLOWED	AREA ALLOWED PER FLOOR	9,000	IBC TABLE 503	
FRONTAGE INCREASE FORMULA	=[F/P - 0.25] W/30	3,000	IBC 506.2	
FRONTAGE INCREASE AMOUNT	75.0%	6,750	IBC 506.2	
AUTOMATIC SPRINKLER INCREASE	0%	0	IBC 506.3	
TOTAL AREA ALLOWED	WITH INCREASES	15,750	IBC 506.1	
ACTUAL AREA	ACTUAL	2,786	AREA IS IN COMPLIANCE	
INCIDENTAL USE AREAS	NO SEPARATION REQUIRED		IBC TABLE 508.2.5	
ACCESORY USE AREAS	NONE OVER 10%		IBC 508.2.6	
MIXED OCCUPANCY SEPARATION				
SEPARATED OCCUPANCIES	N/A		IBC TABLE 508.4	
FIRE RESISTANCE RATINGS				
STRUCTURAL FRAME		O HOUR	IBC TABLE 60 I	
BEARING WALLS				
EXTERIOR		O HOUR	IBC TABLES 601 AND 602	
INTERIOR		O HOUR	IBC TABLE 60 I	
NON-BEARING WALLS AND PARTITIONS				
EXTERIOR	FIRE SEPARATION DISTANCE > 30 FT	O HOUR	IBC TABLE 602	
INTERIOR		O HOUR	IBC TABLE 60 I	
FLOOR / CEILING ROOF / CEILING		O HOUR	IBC TABLE 60 I	
FIRE RESISTANT PROTECTIVE CONSTRUCTION REQUIREMENTS				
MAX AREA OF EXTERIOR WALL OPENINGS	FIRE SEPARATION DISTANCE > 30 FT		IBC TABLE 705.8	
PARAPETS AT EXTERIOR WALLS	FIRE SEPARATION DISTANCE > 30 FT		IBC 705.11	
FIRE WALLS FIRE BARRIERS	NOT APPLICABLE		IBC 706.4	
SHAFT ENCLOSURES	NOT APPLICABLE NOT APPLICABLE		IBC 707.3.1	
EXIT ENCLOSURES	NOT APPLICABLE		IBC 1022.1	
HORIZONTAL EXITS	NOT APPLICABLE		IBC 1026.1	
FIRE PARTITIONS - CORRIDOR WALLS	NOT APPLICABLE		IBC 709 / IBC TABLE 1018.1	
SMOKE BARRIERS	NOT APPLICABLE		IBC 710	
SMOKE PARTITIONS	NOT APPLICABLE		IBC 711	
HORIZONTAL ASSEMBLIES	NOT APPLICABLE		IBC 712	
OPENING PROTECTIVES	NOT APPLICABLE		IBC 715	
DOORS / SHUTTERS AT FIRE WALL	NOT APPLICABLE		IBC 705.8 / IBC TABLE 7 5.4	
GLAZING AT FIRE WALL	NOT APPLICABLE		IBC TABLE 715.4	
DUCT AND AIR TRANSFER OPENINGS	NOT APPLICABLE		IBC TABLE 7 6.3.2.1	
CONCEALED SPACES				
DRAFT-STOPPING FLOORS & CEILINGS	NOT APPLICABLE	NONE	IBC 717.3	
DRAFT-STOPPING ATTICS	NOT APPLICABLE	NONE	IBC 717.4	
INTERIOR FINISHES	FINION DIFFUS TECHNO	0.405 =	IDC TARLE GOO O	
EXIT ENCLOSURES AND PASSAGEWAYS CORRIDORS	FINISH RATING REQUIRED	CLASS B	IBC TABLE 803.9	
CORRIDORS ROOMS AND ENCLOSED SPACES	FINISH RATING REQUIRED FINISH RATING REQUIRED	CLASS B	IBC TABLE 803.9	
FIRE PROTECTION SYSTEMS	TINIOTI NATING REQUIRED	CLAJJC	IDO INULL OUD, J	
AUTOMATIC FIRE SPRINKLER SYSTEMS	NOT REQUIRED		IBC 903.2.1.3 , 907.2.2	
PORTABLE FIRE EXTINGUISHERS	PROVIDED		IBC 906.1	
FIRE ALARM AND DETECTION SYSTEMS	NOT REQUIRED		IBC 907.2.1	
MEANS OF EGRESS CEILING HEIGHT	MININALINA ALL OW/FD	7'-6"	IBC 1003.2	
OCCUPANT LOAD	MINIMUM ALLOWED B=(2.425/100)	7'-6" 25	IBC 1003.2	
OCCUPANT ECHO		100 SF	IBC TABLE 1004.1.1	
BUSINESS	(¬K():D:D :DE / FEK D():N(
	GROSS SF / PERSON MAXIMUM ALLOWED		IBC 1014.3	
COMMON PATH OF TRAVEL		75 FT 200 FT		
BUSINESS COMMON PATH OF TRAVEL EXIT ACCES TRAVEL DISTANCE EXITS FROM STORIES	MAXIMUM ALLOWED	75 FT	IBC 1014.3	

NOTICE TO DRAWING HOLDER

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REVISIONS DRAWING INFORMATION NO. DATE BY DESCRIPTION N-S PROJECT NO.: NS.12213.000 FILENAME: CADD TYPE: AutoCAD SURVEYED BY: DATE: JUNE 15 DSGN: J.M. DRWN: J.M. DATE: JUNE 15 DATE: CHKD: QA/QC: DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC **OFFICE BUILDING**

FRANKLIN, VA

Solutions you can build upon

NUMBER OF EXITS

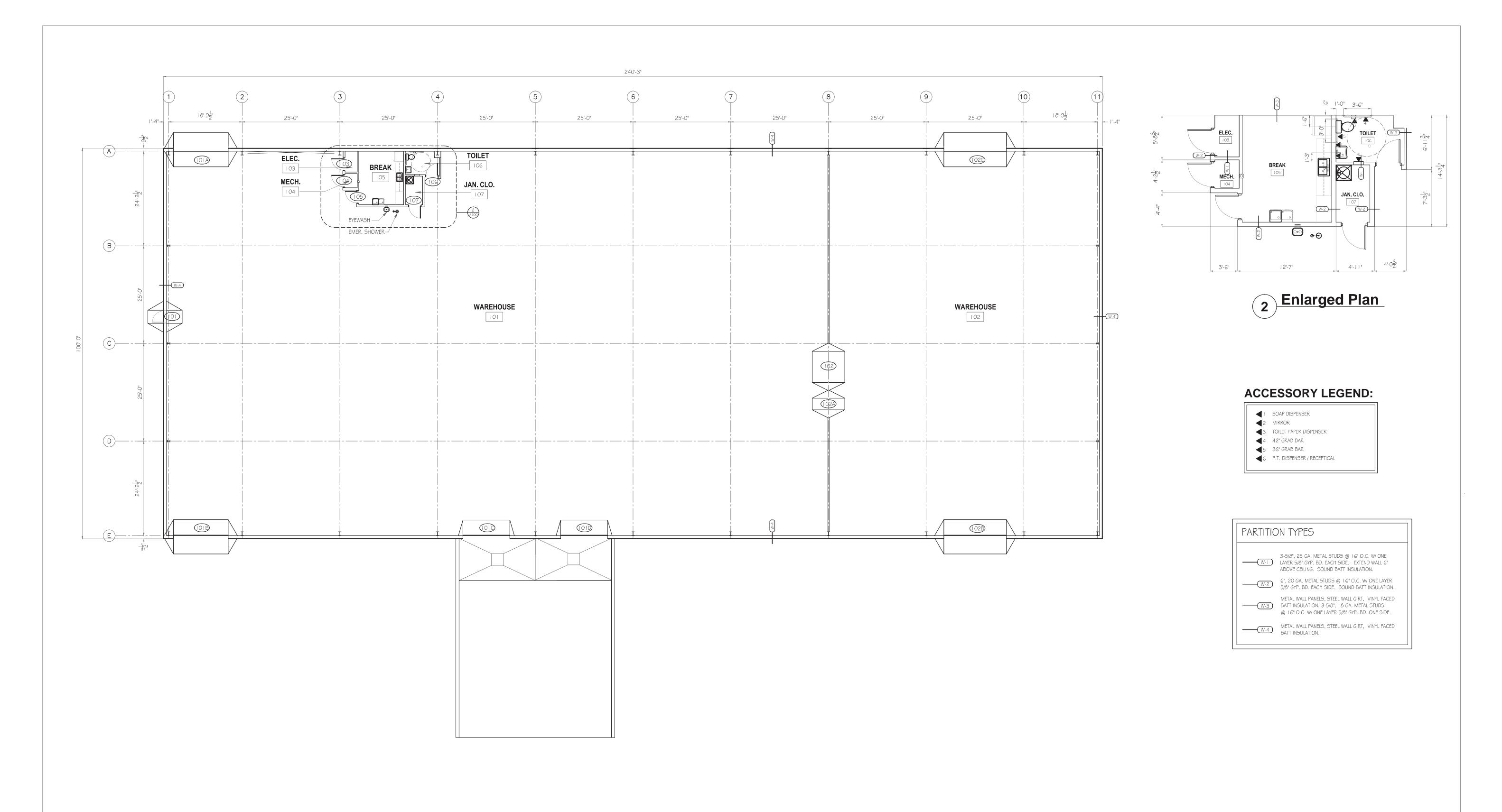
LIFE SAFETY PLAN (FOR REFERENCE ONLY)

WORKING NUMBER: **OB-LS100**

MINIMUM FOR ENTIRE BUILDING 2 IBC TABLE 1021.1

DRAWING NUMBER: 9 of 9

SEAL:





NOTICE TO DRAWING HOLDER	
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				FILENAME:	
				CADD TYPE:	AutoCAD
				SURVEYED BY:	
				DSGN: J.M.	DATE: JUNE 15
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				CHKD:	DATE:
				QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC WAREHOUSE

FRANKLIN, VA

SEAL:



FLOOR PLAN (FOR REFERENCE ONLY)

WORKING NUMBER: DRAWING NUMBER: 4 1 of 5

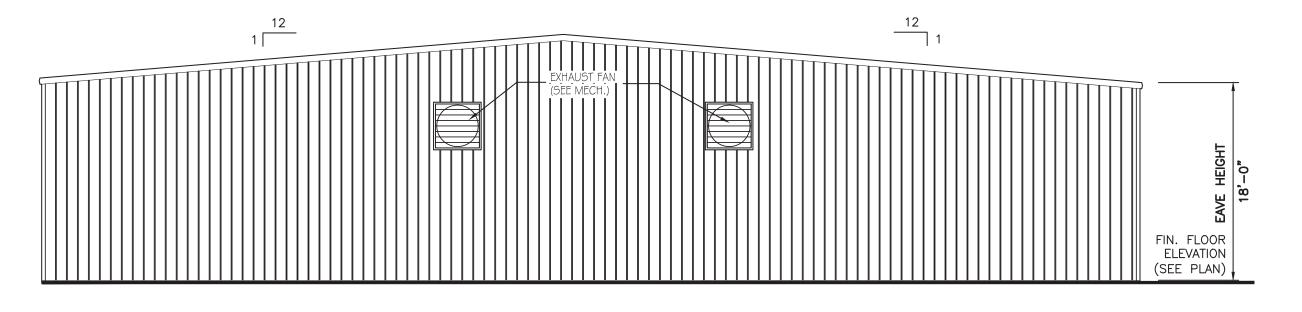
DATE: \$DATE\$ TIME: \$TIME\$

\$FILE\$ \$0 \ 7 E\$



South Elevation - Warehouse

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



North Elevation - Warehouse

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

SEAL:

//)	
\$TIME\$	NOTICE TO DRAWING HOLDER
TIME:	NEEL—SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED
: \$FILE\$ E: \$DATE\$	ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

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				FILENAME:			
				CADD TYPE:	AutoCAD		
				SURVEYED BY:			
				DSGN: J.M.	DATE: JUNE 15		
				DRWN: J.M.	DATE: JUNE 15		
				CHKD:	DATE:		
				QA/QC:	DATE:		

FIN. FLOOR ELEVATION (SEE PLAN)

PINNACLE AGRICULTURE HOLDINGS, LLC WAREHOUSE

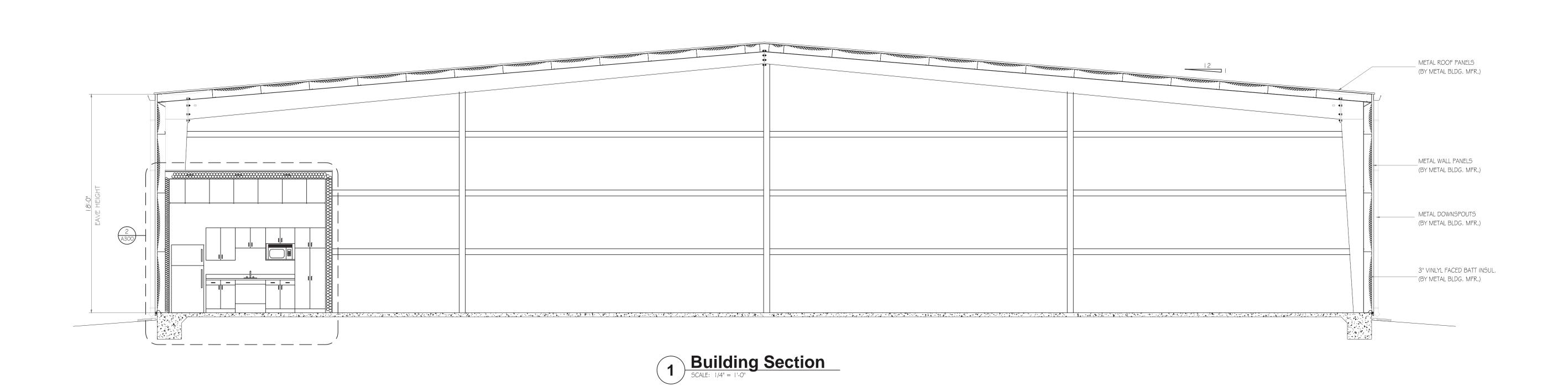
FRANKLIN, VA

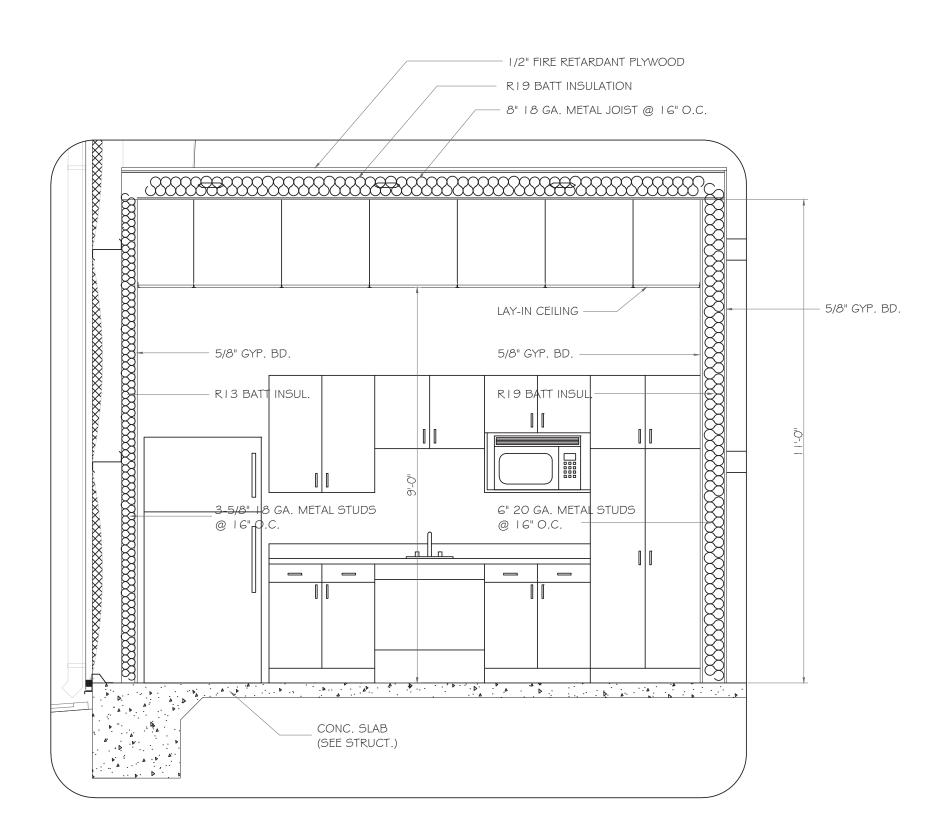


ELEVATIONS (FOR REFERENCE ONLY)

WORKING NUMBER: WH-A200

DRAWING NUMBER: 2 of 5





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

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REVISIONS				IFORMATION	
DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000		
			FILENAME:		
			CADD TYPE:	AutoCAD	
			SURVEYED BY:		
			DSGN: J.M.	DATE: JUNE 15	
			DRWN: J.M.	DATE: JUNE 15	
			CHKD:	DATE:	
			QA/QC:	DATE:	
	DATE	DATE BY		DATE BY DESCRIPTION N-S PROJECT FILENAME: CADD TYPE: SURVEYED BY: DSGN: J.M. DRWN: J.M. CHKD:	

PINNACLE AGRICULTURE HOLDINGS, LLC
WAREHOUSE

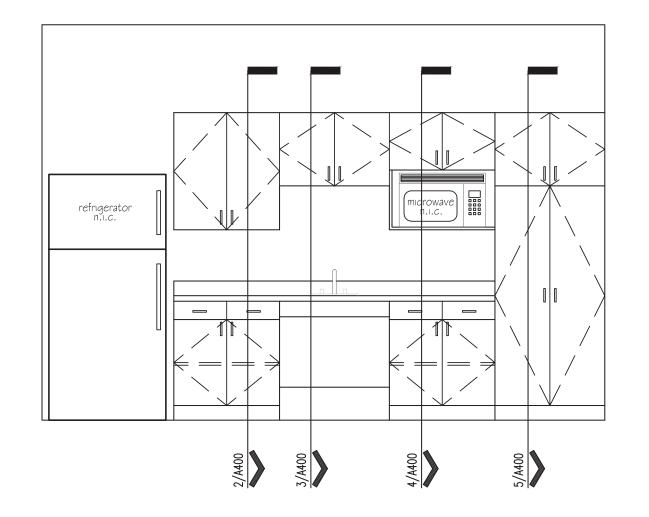
FRANKLIN, VA

SEAL:



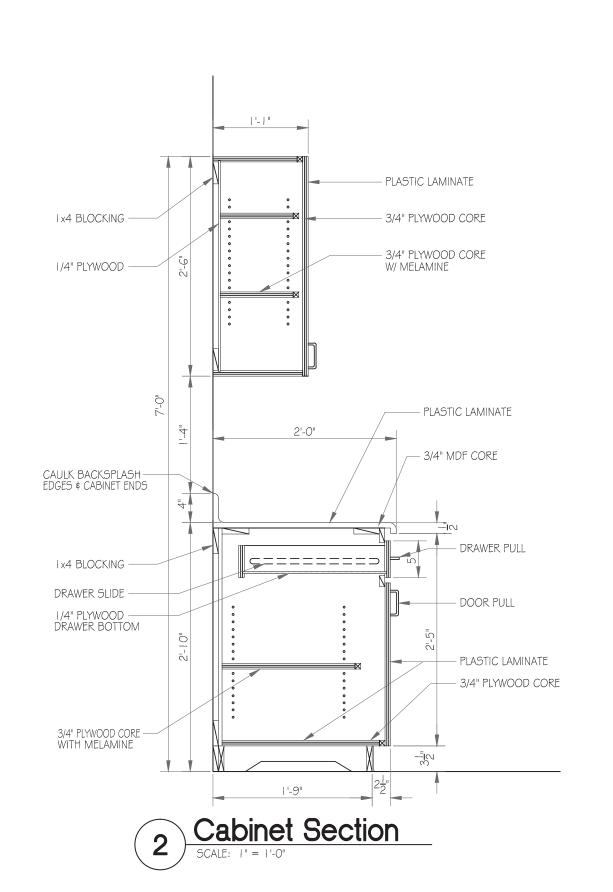
SECTIONS
(FOR REFERENCE ONLY)

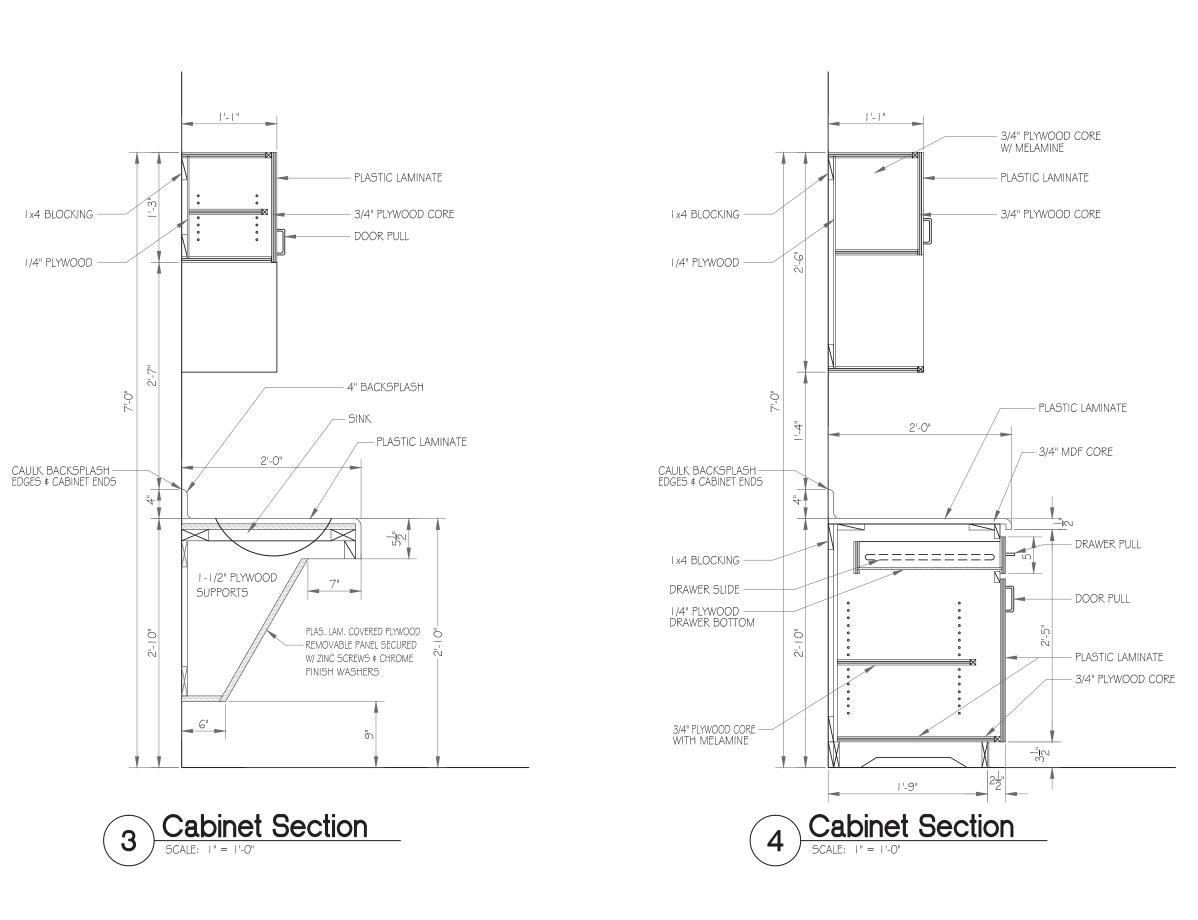
WORKING NUMBER: DRAWING NUMBER: WH-A300 of 5

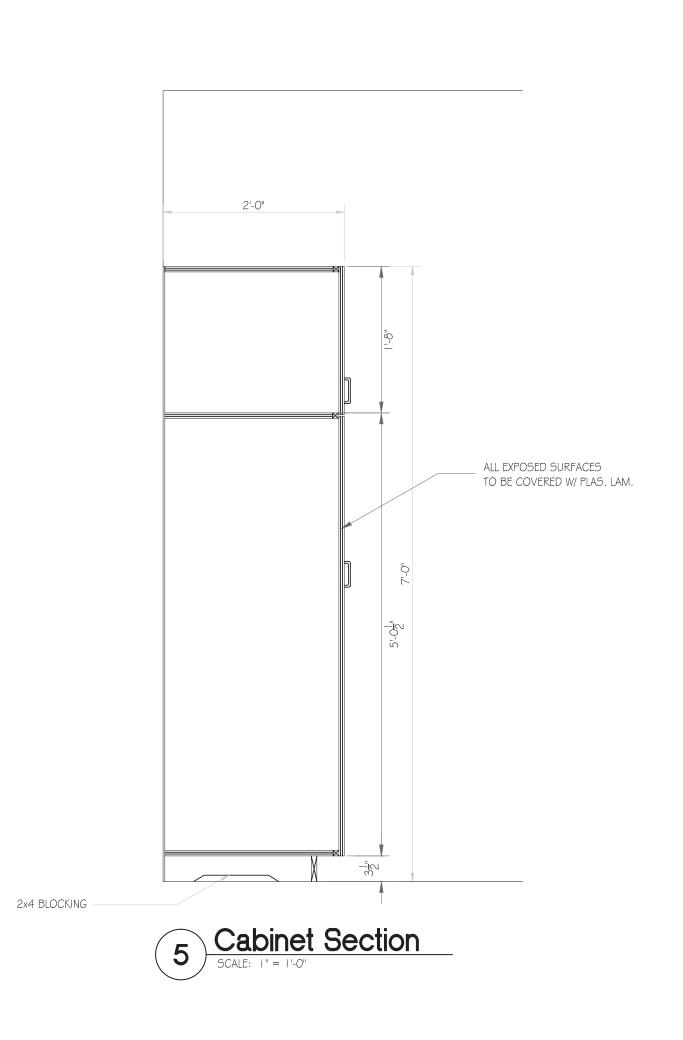


Interior Elevation SCALE: 1/2" = 1'-0"

NOTE: FINISH ALL EXPOSED SURFACES WITH PLASTIC LAMINATE, UNLESS NOTED OTHERWISE







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				REVISIONS	DRAWING IN	IFORMATION
	NO.	DATE	BY			
NGINEER,					FILENAME:	
NER FOR	ER FOR USED CADD	CADD TYPE:	AutoCAD			
T. ANY		SURVEYED BY				
ADAPTION AND THE ER FROM TORNEY'S					DSGN: J.M.	DATE: JUNE 15
					DRWN: J.M.	DATE: JUNE 15
					CHKD:	DATE:
					QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC WAREHOUSE

FRANKLIN, VA

SEAL:



INTERIOR ELEVATION
& CABINET DETAILS
(FOR REFERENCE ONLY)

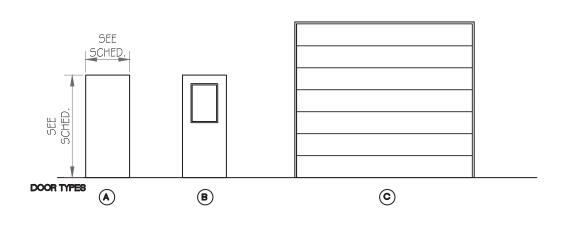
WORKING NUMBER: WH-A400

DRAWING NUMBER:

of 5

DOOR SCHEDULE

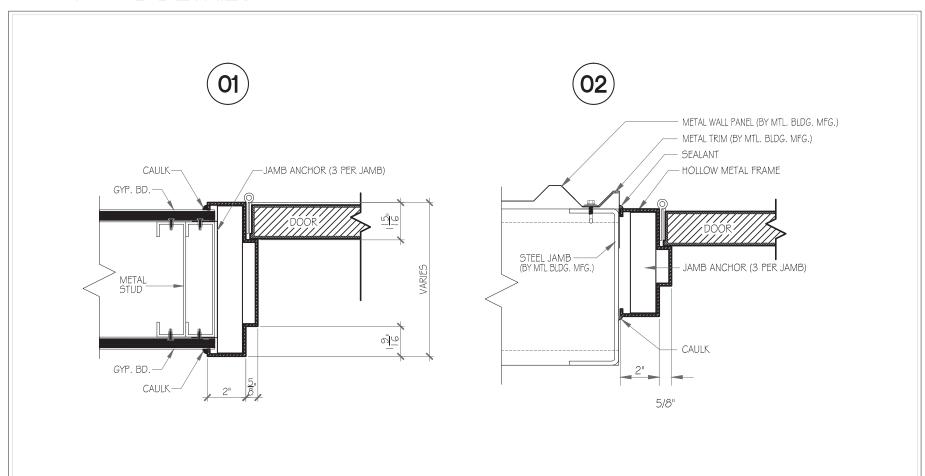
DOOR						FRAME		JAMB	
#	TYPE	H'WARE SET	SIZE	MAT'L	FINISH	MAT'L	FINISH	DETAIL	REMARKS:
101	А	01	3'0"x 7'0"	METAL	PAINT	H.M.	PAINT	02	
IOIA	С		14' x 14'	METAL	PAINT	METAL	PAINT		
101B	С		14' x 14'	METAL	PAINT	METAL	PAINT		
IOIC	С		12' x 14'	METAL	PAINT	METAL	PAINT		
IOID	С		12' x 14'	METAL	PAINT	METAL	PAINT		
102	С		8' x 14'	METAL	PAINT	METAL	PAINT		
102A	Α	01	3'0"x 7'0"	METAL	PAINT	H.M.	PAINT	02	
102B	С		16' x 14'	METAL	PAINT	METAL	PAINT		
102C	С		16' x 14'	METAL	PAINT	METAL	PAINT		
103	А	03	3'0"x 7'0"	METAL	PAINT	H.M.	PAINT	01	
104	А	02	3'0"x 7'0"	METAL	PAINT	H.M.	PAINT	01	
105	А	02	3'0"x 7'0"	METAL	PAINT	Н.М.	PAINT	01	
106	А	03	3'0"x 7'0"	METAL	PAINT	H.M.	PAINT	01	
107	А	02	3'0"x 7'0"	METAL	PAINT	Н.М.	PAINT	01	

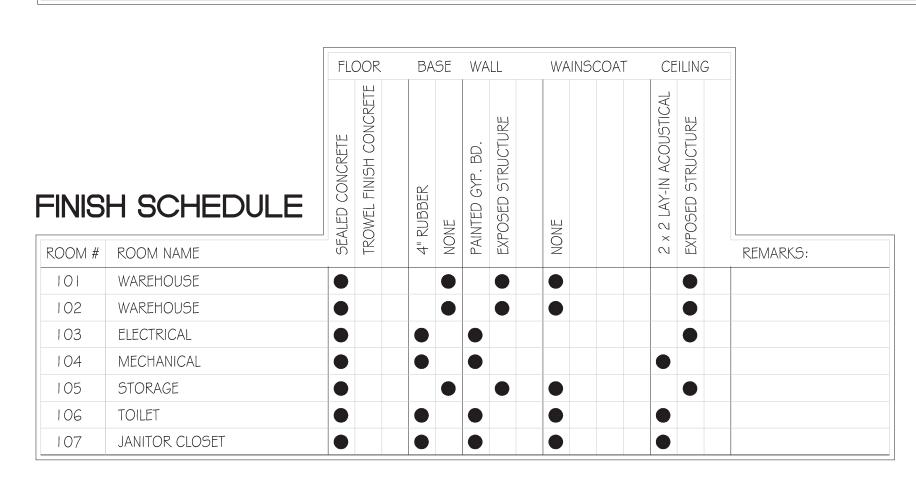


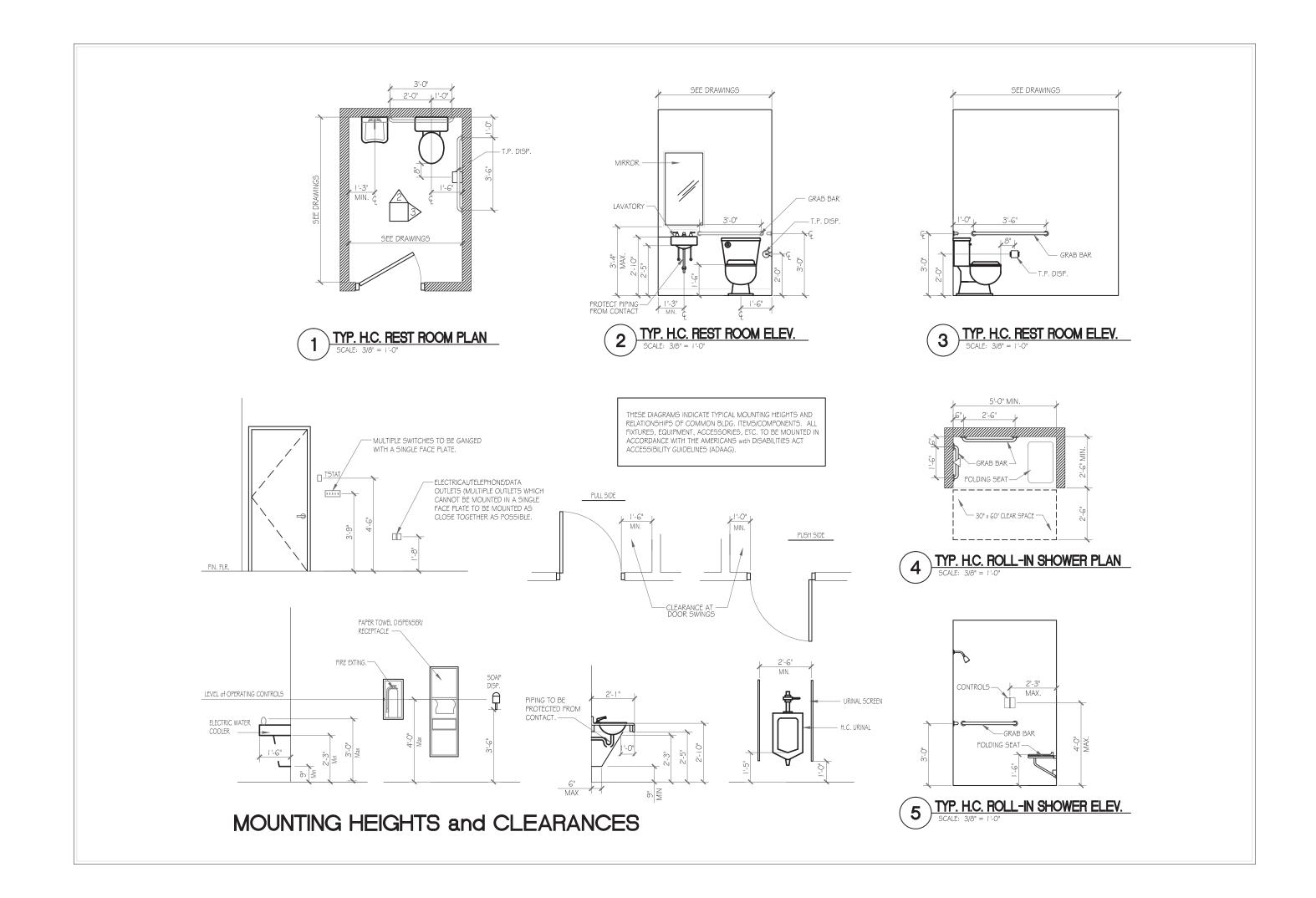
HARDWARE SCHEDULE

SET NO. I	SET NO. 2	SET NO. 3	SET NO. 4
3 HINGES 3 SILENCERS I PANIC DEVICE I STOP I WEATHERSTRIPPING I THRESHOLD I CLOSER	3 HINGES 3 SILENCERS I LOCKSET I STOP	3 HINGES 3 SILENCERS I PRIVACY SET I STOP	3 HINGES 3 SILENCERS I PANIC DEVICE I STOP I CLOSER

DOOR JAMB DETAILS







SEAL:

NOTICE TO DRAWING HOLDER

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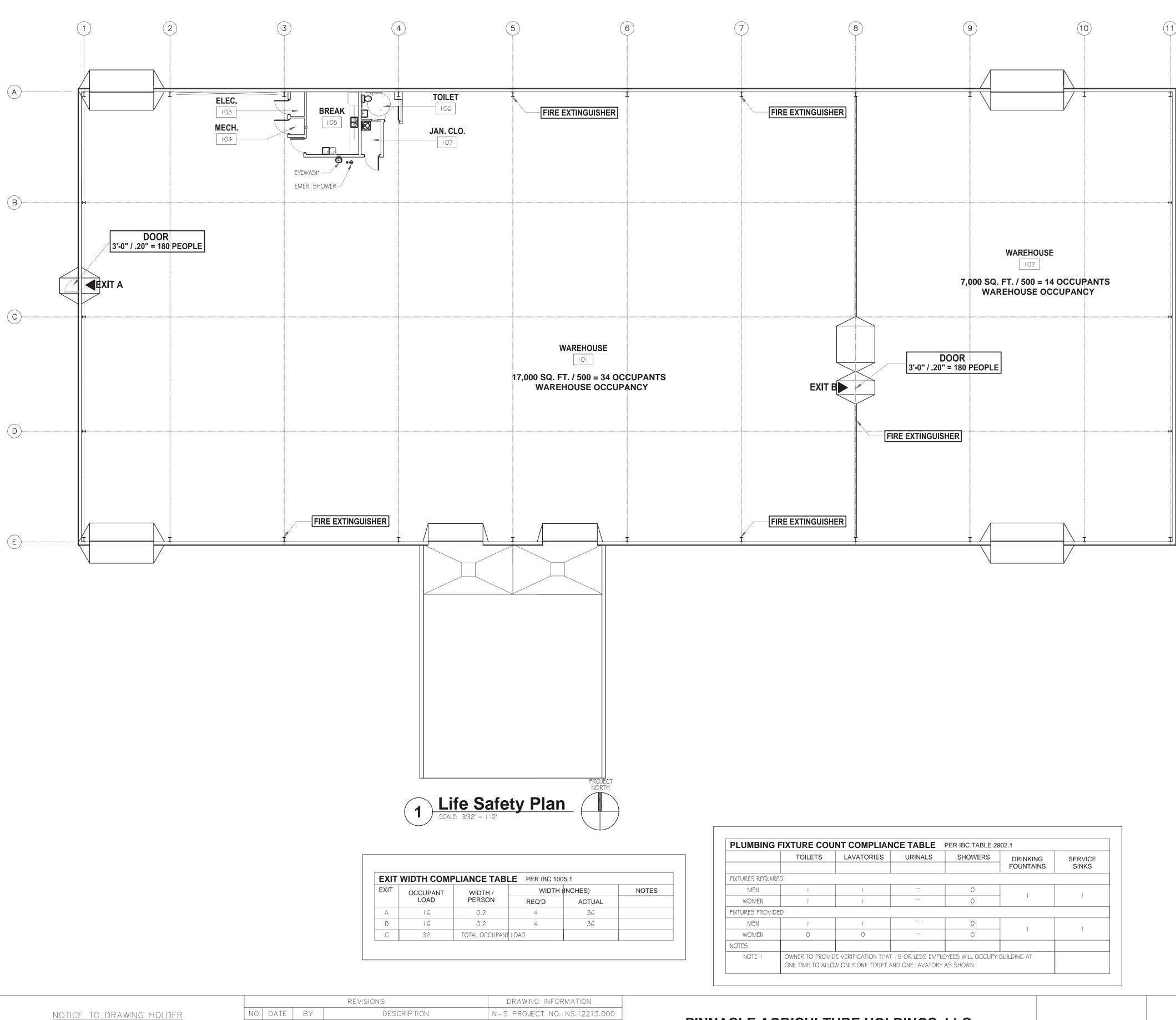
			REVISIONS	DRAWING IN	IFORMATION
NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000
				FILENAME:	
				CADD TYPE:	AutoCAD
				SURVEYED BY:	
				DSGN: J.M.	DATE: JUNE 15
				DRWN: J.M.	DATE: JUNE 15
				CHKD:	DATE:
				QA/QC:	DATE:

PINNACLE AGRICULTURE HOLDINGS, LLC WAREHOUSE

FRANKLIN, VA



WORKING NUMBER:	DRAWING NUMBER:
	of 5



PROJECT: Pinnacle Ag	- Warehouse - Fra	nklin, V	Α	
APPLICABLE CODES AN	ND STANDARDS			
IBC - INTERNATIONAL BUILDING CODE - 2009 EDITION IFC - INTERNATIONAL FIRE CODE - 2009 EDITION				
NEC - NATIONAL ELECTRICAL CODE - 2008 EDITI				
IPC - INTERNATIONAL PLUMBING CODE - 2009 E	DITION			
IMC - INTERNATIONAL MECHANICAL CODE - 200				
ADAAG - AMERICANS WITH DISABILITIES ACT AR	UHITECTURAL GUIDLINES - 2010			
BUILDING COMPONENTS	CODE APPLICATION		CODE SECTIONS AND NOTES	
LICE AND OCCUDANCY				
USE AND OCCUPANCY CLASSIFICATION	DESCRIPTION	VALUE		
PRIMARY OCCUPANCY	HIGH HAZARD - GROUP H3		IBC 303	
MIXED OCCUPANCY SEPARATION	N/A		IBC TABLE 508.4	
CONSTRUCTION TYPE	IIB, SPRINKLERED		IBC 602.2	
HEIGHT MODIFICATIONS TABULAR HEIGHT ALLOWED	55 FT.	18 FT	IBC TABLE 503	
NO. OF STORIES INCREASE	N/A	0	IBC 504.2	
TOTAL STORIES ALLOWED		2		
ACTUAL NO. OF STORIES = AREA MODIFICATIONS		l	HEIGHT IS IN COMPLIANCE IBC 506	
BUILDING AREA			100 306	
TABULAR AREA ALLOWED	AREA ALLOWED PER FLOOR	14,000	IBC TABLE 503	
FRONTAGE INCREASE FORMULA	=[F/P - 0.25] W/30		IBC 506.2	
FRONTAGE INCREASE AMOUNT AUTOMATIC SPRINKLER INCREASE	75.0%	10,500	IBC 506.2	
TOTAL AREA ALLOWED	WITH INCREASES	24,500	IBC 506.1	
ACTUAL AREA	ACTUAL ROOFED AREA	24,590	AREA IS IN COMPLIANCE W/ MIN. SPRINKER INCREAS	
INCIDENTAL USE AREAS	NO SEPARATION REQUIRED		IBC TABLE 508.2.5	
ACCESORY USE AREAS	NONE OVER 10%		IBC 508.2.6	
MIXED OCCUPANCY SEPARATION SEPARATED OCCUPANCIES	N/A		IBC TABLE 508.4	
FIRE RESISTANCE RATINGS	1977		iso male see. I	
STRUCTURAL FRAME		O HOUR	IBC TABLE 60 I	
BEARING WALLS		0.110115	IDO TARISCO COLLANDO COO	
EXTERIOR INTERIOR		O HOUR	IBC TABLES 601 AND 602 IBC TABLE 601	
NON-BEARING WALLS AND PARTITIONS		0 110010	IDO MOLLOO	
EXTERIOR	FIRE SEPARATION DISTANCE > 30 FT	O HOUR	IBC TABLE 602	
INTERIOR		0 HOUR	IBC TABLE 60 I	
FLOOR / CEILING ROOF / CEILING		O HOUR	IBC TABLE 60 I	
FIRE RESISTANT PROTECTIVE		O HOOK		
CONSTRUCTION REQUIREMENTS				
MAX AREA OF EXTERIOR WALL OPENINGS	FIRE SEPARATION DISTANCE > 30 FT		IBC TABLE 705.8	
PARAPETS AT EXTERIOR WALLS FIRE WALLS	FIRE SEPARATION DISTANCE > 30 FT NOT APPLICABLE		IBC 705.11	
FIRE BARRIERS	NOT APPLICABLE		IBC 707	
SHAFT ENCLOSURES	NOT APPLICABLE		IBC 707.3.1	
EXIT ENCLOSURES	NOT APPLICABLE		IBC 1022.1	
HORIZONTAL EXITS FIRE PARTITIONS - CORRIDOR WALLS	NOT APPLICABLE NOT APPLICABLE		IBC 1026.1	
SMOKE BARRIERS	NOT APPLICABLE		IBC 710	
SMOKE PARTITIONS	NOT APPLICABLE		IBC 711	
HORIZONTAL ASSEMBLIES	NOT APPLICABLE		IBC 712	
OPENING PROTECTIVES DOORS / SHUTTERS AT FIRE WALL	NOT APPLICABLE NOT APPLICABLE		IBC 715 IBC 705.8 / IBC TABLE 715.4	
GLAZING AT FIRE WALL	NOT APPLICABLE		IBC TABLE 715.4	
DUCT AND AIR TRANSFER OPENINGS	NOT APPLICABLE		IBC TABLE 7 6.3.2.1	
CONCEALED SPACES			1007170	
DRAFT-STOPPING FLOORS \$ CEILINGS DRAFT-STOPPING ATTICS	NOT APPLICABLE NOT APPLICABLE	NONE NONE	IBC 717.3	
INTERIOR FINISHES	NOT ALL LICABLE	NONL	100 / 17 / 1	
EXIT ENCLOSURES AND PASSAGEWAYS	FINISH RATING REQUIRED	CLASS B	IBC TABLE 803.9	
CORRIDORS	FINISH RATING REQUIRED	CLASS B	IBC TABLE 803.9	
ROOMS AND ENCLOSED SPACES	FINISH RATING REQUIRED	CLASS C	IBC TABLE 803.9	
FIRE PROTECTION SYSTEMS AUTOMATIC FIRE SPRINKLER SYSTEM	PROVIDED		IBC 903.2.1.3 , 907.2.2	
PORTABLE FIRE EXTINGUISHERS	PROVIDED		IBC 906. I	
FIRE ALARM AND DETECTION SYSTEMS	PROVIDED		IBC 907.2.1	
MEANS OF EGRESS				
CEILING HEIGHT	MINIMUM ALLOWED	7'-6"	IBC 1003.2	
OCCUPANT LOAD	=(22,744/500)	46	IBC 1004	
WAREHOUSE - HIGH HAZARD H-3	GROSS SF / PERSON	500 SF	IBC TABLE 1004.1.1	
COLUMN ACUL DATILLOS TRANSSI	MAXIMUM ALLOWED	25 FT	IBC 1014.3	
COMMON PATH OF TRAVEL		I E O ET	IBC TABLE LOLC I	
EXIT ACCES TRAVEL DISTANCE EXITS FROM STORIES	HIGH HAZARD H-3 SPRINKLERED	150 FT	IBC TABLE 1016.1	

PINNACLE AGRICULTURE HOLDINGS, LLC **WAREHOUSE**

FRANKLIN, VA



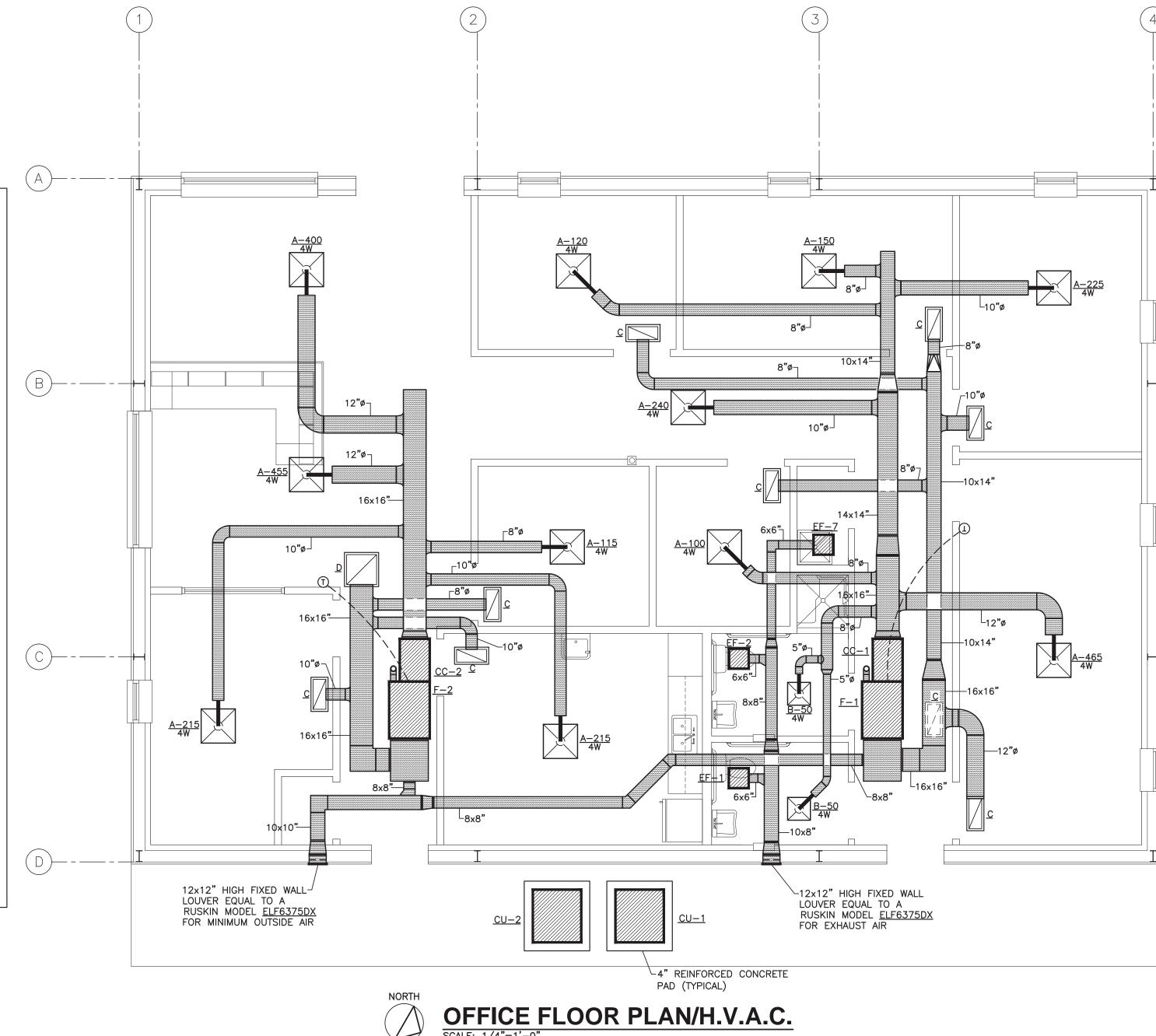
SEAL:

LIFE SAFETY PLAN (FOR REFERENCE ONLY)

WORKING NUMBER: DRAWING NUMBER: **WH-LS100** of 5

NEEL-SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.

FILENAME: CADD TYPE: AutoCAD SURVEYED BY: DSGN: J.M. DATE: JUNE 15 DRWN: J.M. DATE: JUNE 15 CHKD: DATE: QA/QC: DATE:



GENERAL H.V.A.C. NOTES:

1. ALL NEW THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE

- 2. CONTRACTOR SHALL ROUTE NEW REFRIGERANT PIPING UP IN EXTERIOR WALL TO ATTIC SPACE. SIZE AS PER MANUFACTURER'S
- 3. CONTRACTOR SHALL ROUTE NEW 3"Ø VENT AND 3"Ø INTAKE FROM EACH FURNACE UP THRU ROOF TO CONCENTRIC VENT.

NOTICE TO DRAWING HOLDER

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GENERAL NOTES:

A. INSTALLATION

1. ALL PIPING OR DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN

2. THERMOSTATS SHALL BE LOCATED 5'-0" ABOVE FLOOR AND SHALL CLEAR ALL EQUIPMENT. THERMOSTATS LOCATED NEXT TO DOORS SHALL BE LOCATED ON

3. COORDINATE DIFFUSER, GRILLE, AND REGISTER LOCATIONS WITH REFLECTED

4. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COORDINATION OF

WORK OF ALL TRADES TO ASSURE PROPER INSTALLATION AND CLEARANCES. DRAWINGS ARE ESSENTIALLY DIAGRAMMATICAL AND THEREFORE CONTRACTOR SHOULD PLAN EXACT ROUTING OF DUCT AND PIPE BASED ON FIELD CONDITIONS.

PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS NECESSARY (AT NO ADDITIONAL COST TO OWNER) TO COMPLETE INSTALLATION AND MAINTAIN

5. ACCESS PANELS IN DUCTWORK AND NON-ACCESSIBLE CEILINGS SHALL BE PROVIDED FOR OPERATION AND MAINTENANCE OF ALL BOXES, COILS, VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. PROVIDE MINIMUM 24" X 24" CEILING

PLACEMENT OF ACCESS PANELS AND EQUIPMENT SO THAT REASONABLE

6. CONTRACTOR SHALL COORDINATE ALL OPENINGS IN ROOF TO CONFORM WITH DIMENSIONS OF EQUIPMENT PURCHASED. DUCTS THROUGH ROOF TO FANS AND HVAC EQUIPMENT SHALL BE TRANSITIONED TO COORDINATE WITH EQUIPMENT CONNECTION SIZES AND ROOF OPENING REQUIREMENTS.

INSTALLATION OF ALL EQUIPMENT AND SYSTEMS SHALL BE IN ACCORDANCE WITH STANDARD DETAILS, SECTIONS, AND ELEVATIONS SHOWN ON THE DRAWINGS.

8. CONTRACTOR SHALL MAINTAIN A CLEAR SERVICE AREA AROUND ALL EQUIPMENT FOR MAINTENANCE SUCH AS, FILTER REMOVAL, MOTOR AND DRIVE ADJUSTMENTS,

9. ALL CONSTRUCTION SHALL BE PER DETAILS AND SPECIFICATIONS OF CONTRACT

1. ALL DUCT RUNOUTS TO DIFFUSERS, RETURN AIR GRILLES AND EXHAUST GRILLES SHALL BE COMPLETE WITH VOLUME DAMPERS UNLESS NOTED OTHERWISE. DAMPERS MAY BE OMITTED IN DUCT RUNOUTS FROM BOXES SERVING SINGLE DIFFUSER. LOCATE DAMPERS SO THEY ARE ACCESSIBLE FROM LAY-IN CEILING OR

2. ROUND SUPPLY RUNOUTS TO DIFFUSERS SHALL BE HARD METAL TO WITHIN 5'-0" DEVELOPED LENGTH FROM DIFFUSER. MAXIMUM 5'-0" OF FLEXIBLE DUCT MAY BE

3. DUCT TRANSITIONS SHALL BE PROVIDED AS REQUIRED FROM ALL EQUIPMENT

4. PROVIDE EASED INLET RECTANGULAR TO ROUND TAPS AT DUCT TAPS IF ROUND DUCT SIZE IS TOO LARGE FOR BELLMOUTH TAP TO TRUNK DUCT.

ACCESS PANEL FOR VAV BOXES AND 12" X 12" FOR DAMPERS. COORDINATE EXACT

FURRED CHASES OR SUSPENDED CEILINGS.

LATCH SIDE OF DOOR.

REQUIRED CEILING HEIGHTS.

MAINTENANCE SPACE IS AVAILABLE.

COIL AND TUBE CLEANING OR REMOVAL.

USED FOR FINAL CONNECTION TO DIFFUSER.

CONNECTS TO DUCT SIZES INDICATED ON DRAWINGS.

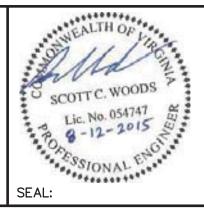
B. DUCTWORK

CEILING PLAN.

			REVISIONS	DRAWING IN	NFORMATION
NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000
				FILENAME:	
				CADD TYPE:	
				SURVEYED BY:	
				DSGN: D.V.M.	DATE: 08/12/15
				DRWN: D.V.M.	DATE: 08/12/15
				CHKD: S.C.W.	DATE: 08/12/15
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PINNACLE AGRICULTURE HOLDINGS, LLC

FRANKLIN, VA

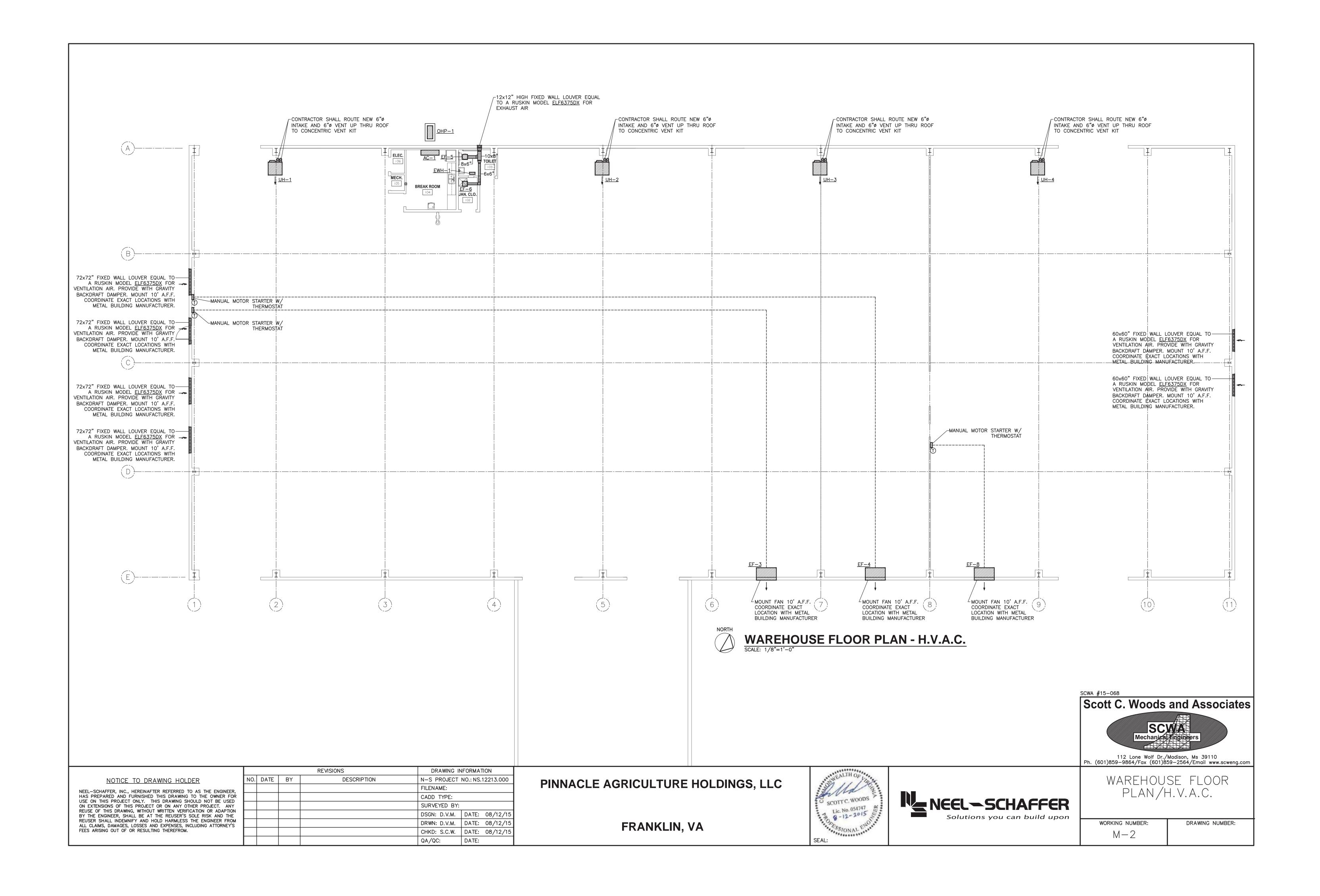


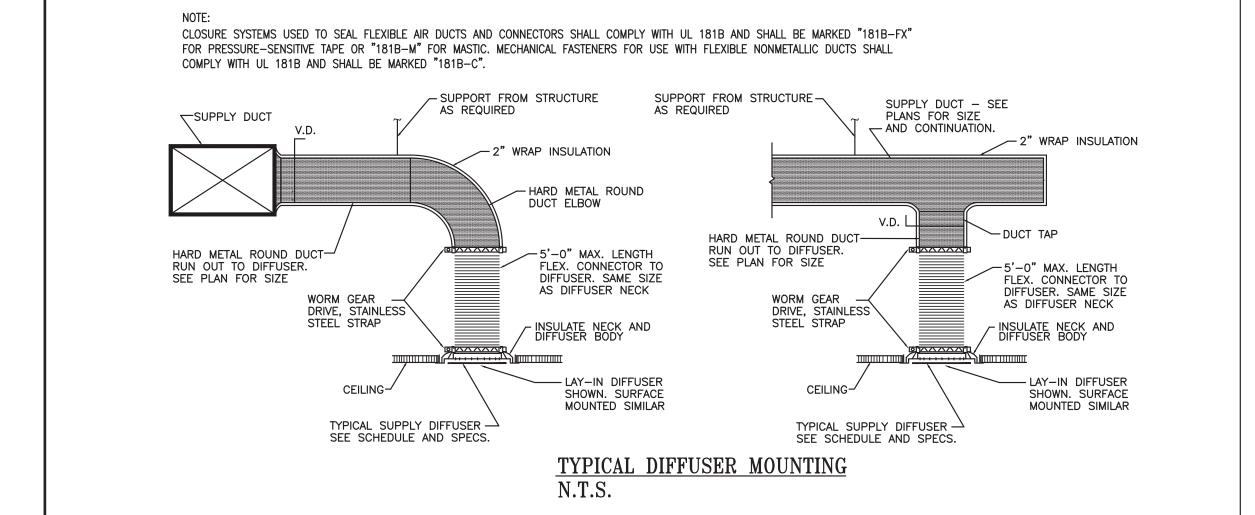


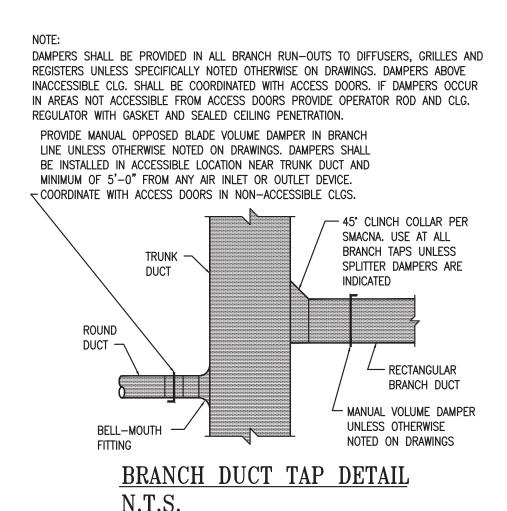
112 Lone Wolf Dr./Madison, Ms 39110 Ph. (601)859-9864/Fax (601)859-2564/Email www.scweng.com OFFICE FLOOR PLAN/H.V.A.C.

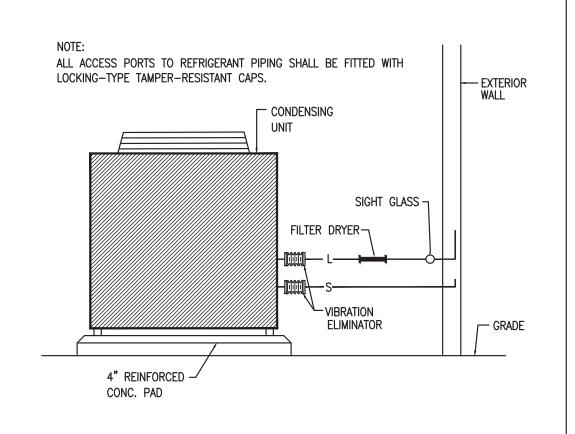
Scott C. Woods and Associates

WORKING NUMBER: DRAWING NUMBER: M-1

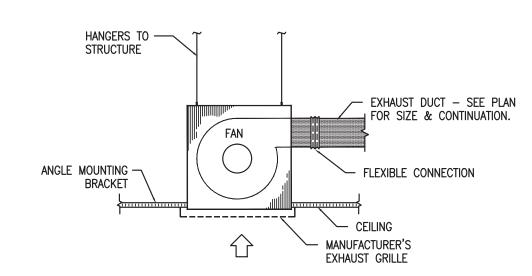




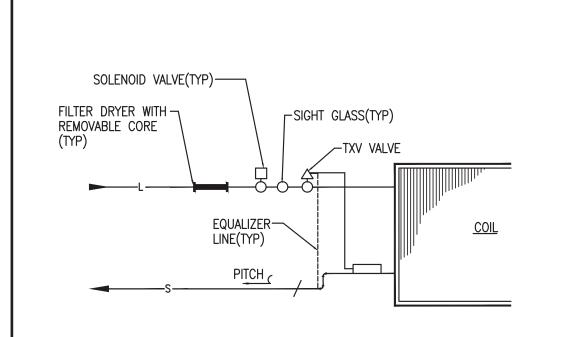




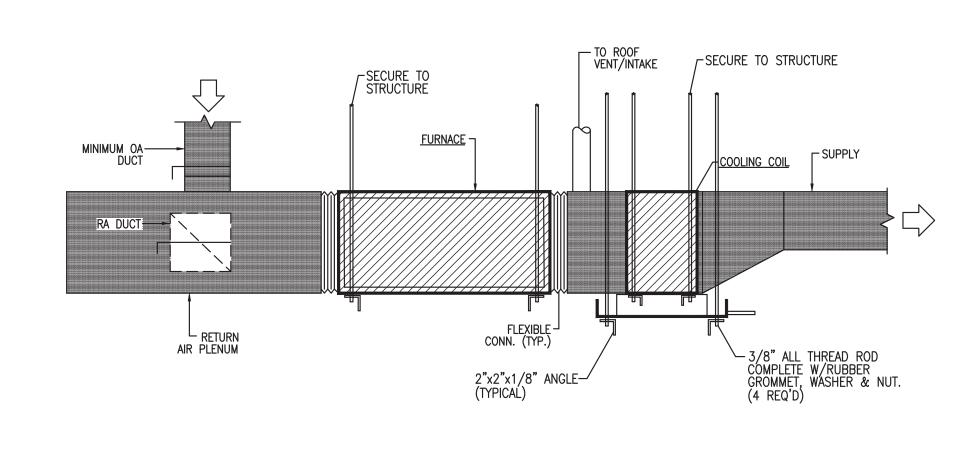
DETAIL AT CONDENSING UNIT PIPING N.T.S.



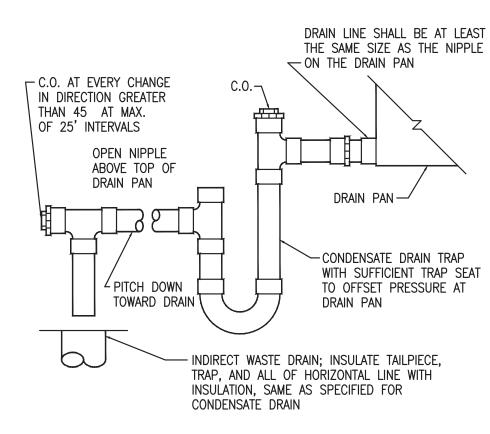
CEILING MOUNTED EXHAUST FAN DETAIL N.T.S.



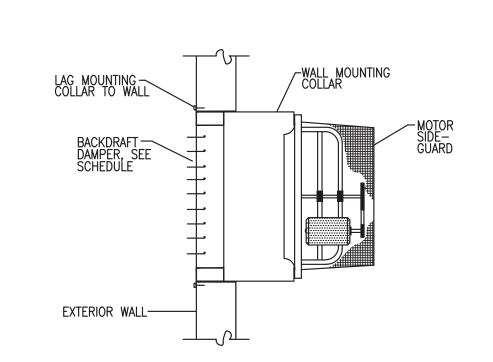
PIPING AT DX COIL



ELEVATION AT HORIZONTAL MTD. FURNACE



CONDENSATE DRAIN TRAP DETAIL



WALL FAN MOUNTING DETAIL

		DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE														
MARK MAKE MODEL COOLING HEATING ELECTRICAL MCA MOP REMARKS											REMARKS					
MARK	WANE	WIODLL	AMBIENT	MBH	SEER	AMBIENT	MBH	COP	COMP. FLA	FAN FLA	VOLTS	PHASE		MOF	KEMAKNS	
OHP-1	SAMSUNG	AQV12NSDX	95°	12.0	18.0	47°	13.5	3.3			208	1		20		

			DUCT	LESS SPI	LIT SY	STEM	IN	DOOR	UNIT SCHI	EDU:	LE (WALL	MOUNTED)
MARK	MALCE	MODEL	FAN	MOTOR	CO	OLING-95°	AMB.		HEATING - 47° AMB.		1404	MOD	REMARKS
INIAIV	MAKE	WODEL	TOT CFM O.A CFME.S	P. HP VOLTS	PH. EAT	TMBH	SMBH	EAT MBH	AUX. HEAT KW STEPS	VOLTS	PH. MCA	MOP	NEMANNS
AC-1	SAMSUNG	AQV12NSD	300	 208	1 80°	12.0	8.6	70° 13.5				_	MOUNT 7'-6" A.F.F.

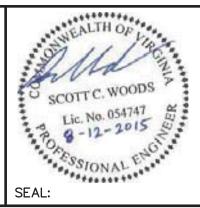
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				KE VISIONS	DRAWING IN	IF ORMATION
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PINNACLE AGRICULTURE HOLDINGS, LLC

FRANKLIN, VA





H.V.A.C. DETAILS

WORKING NUMBER: DRAWING NUMBER:

					COND	ENSIN	G (JNIT	SC	HEDU	JLE							
MARK	SERVES	MAKE	MODEL	TYPE	MBH @ ARI	AMBIENT		MPRESSC VOLTS		FLA	NO	CONDENSER FANS NO					MAX. FUSE SIZE	REMARKS
CU-1	CC-1	TRANE	4TTA3042	SCROLL	42.0	95°F	1	208	7 THASE	12.6	NO 1	1 /4	208	1	FLA 1 3	AMPACITY 18	30	SEE SPECS
CU-2	CC-2	TRANE	4TTA3042	SCROLL	42.0	95°F	1	208	3	12.6	1	1/4	208	1	1.5	18	30	SEE SPECS

				G	AS F	URN	ACE	SCF	HEDU	JLE	(LP	GAS)		
MARK	K MAKE MODEL TYPE MBH MBH TOTAL OA ESP HP VOLTS PHASE GAS SIZE SIZE REMARKS														
F-1															
F-2	TRANE	TUCC100	HORIZONTAL	100.0	94.0	1,400	140	.50"	1/2	115	1	LP	3"ø	3"ø	PROVIDE W/ 1" FILTER RACK, CONCENTRIC VENT KIT, SEE SPECS

					COOL	ING C	OIL SO	CHEDUI	LE
MARK	MAKE	MODEL	CFM	EA DB	EA WB	TOT MBH	SENS MBH	APD IN WG	REMARKS
CC-1	TRANE	4TXC042	1,400	80°F	67°F	41.5	34.0	.20"	PROVIDE W/ COIL ENCLOSURE, SEE SPECS
CC-2	TRANE	4TXC042	1,400	80°F	67°F	41.5	34.0	.20"	PROVIDE W/ COIL ENCLOSURE, SEE SPECS

			G/	AS FIR	RED HE	ATE	R I	UNI	T S	CHE	DULE	(LP	GAS)	
MARK	MAKE	MODEL	TYPE	G	AS	FA	.N		MOTOR		INTAKE	VENT SIZE	WEIGHT	REMARKS
MARK	IVIANE	MODEL		INPUT MBH	OUTPUT MBH	CFM	ESP	H.P.	VOLTS	PHASE	SIZE	SIZE	WEIGHT	KEMAKKS
UH-1	REZNOR	UDAS-300	HORIZONTAL SEP. COMBUSTION	300.0	249.0	3,843		1/2	115	1	6"ø	6"ø	275 LBS.	PROVIDE W/ SUSPENSION KIT, UNIT MOUNTED THERMOSTAT, CONCENTRIC VENT KIT
UH-2	REZNOR	UDAS-300	HORIZONTAL SEP. COMBUSTION	300.0	249.0	3,843		1/2	115	1	6"ø	6"ø	275 LBS.	PROVIDE W/ SUSPENSION KIT, UNIT MOUNTED THERMOSTAT, CONCENTRIC VENT KIT
UH-3	REZNOR	UDAS-300	OEI . OOMBOOMON	300.0	249.0	3,843		1/2	115	1	6"ø	6"ø	275 LBS.	PROVIDE W/ SUSPENSION KIT, UNIT MOUNTED THERMOSTAT, CONCENTRIC VENT KIT
UH-4	REZNOR	UDAS-300	LIODIZONITAL	300.0	249.0	3,843		1/2	115	1	6"ø	6"ø	275 LBS.	PROVIDE W/ SUSPENSION KIT, UNIT MOUNTED THERMOSTAT, CONCENTRIC VENT KIT

				EL	ECTRIC	C WALI	L HEATER SCHEDULE
MARK	MAKE	MODEL	TYPE	HEATING OUTPUT	V	Ø	REMARKS
EWH-1	MARKEL	SERIES 3310	FAN FORCED	1.5 KW	208	1	PROVIDE W/ SURFACE MOUNTING SLEEVE AND BUILT-IN THERMOSTAT

					FA	N S	CHE	DULE							
MARK	MAKE	MODEL	TYPE	CFM	RPM	ESP	WH TYPE	HEEL MIN DIA	DRIVE	SONES	HP	MOTOR VOLTS	PHASE	INTERLOCKED W/ CONTROLLED BY	REMARKS
EF-1	COOK	GC-140	CLG. MTD.	100	1500	.25"	FC		DIRECT	3.1	.009	120	1	WALL SWITCH	A,B,C,D, SEE SPECS
EF-2	COOK	GC-140	CLG. MTD.	100	1500	.25"	FC		DIRECT	3.1	.009	120	1	WALL SWITCH	A,B,C,D, SEE SPECS
EF-3	COOK	54XMWH	WALL PROP	30,000	398	.125"	PROP		BELT	21	3.0	460	3	T'STAT/STARTER	C,E,F, SEE SPECS
EF-4	COOK	54XMWH	WALL PROP	30,000	398	.125"	PROP		BELT	21	3.0	460	3	T'STAT/STARTER	C,E,F, SEE SPECS
EF-5	COOK	GC-160	CLG. MTD.	150	1500	.25"	FC		DIRECT	3.1	.009	120	1	WALL SWITCH	A,B,C,D, SEE SPECS
EF-6	COOK	GC-140	CLG. MTD.	100	1500	.25"	FC		DIRECT	3.1	.009	120	1	WALL SWITCH	A,B,C,D, SEE SPECS
EF-7	COOK	GC-140	CLG. MTD.	100	1500	.25"	FC		DIRECT	3.1	.009	120	1	WALL SWITCH	A,B,C,D, SEE SPECS
EF-8	COOK	48XMWH	WALL PROP	25,000	525	.125"	PROP		BELT	28	3.0	460	3	T'STAT/STARTER	C,E,F, SEE SPECS

ACCESSORIES: (A) VIBRATION ISOLATORS (B) GRAVITY BACKDRAFT DPR. (C) DISCONNECT (D) SPEED CONTROLLER (E) WALL COLLAR (F) GRAVITY SHUTTER

	GRILLE, REGISTER AND DIFFUSER SCHEDULE																
MARK	MAKE	MODEL	TYPE	S R E SIZE SIZE													
А	TITUS	TDC-AA	LOUVER FACE	X	LAY-IN	24x24"	SEE PLANS	SEE PLANS	.07"		WHITE	SEE PLANS	SEE SPECS				
В	TITUS	TDC-AA	LOUVER FACE	X	SURFACE	MFGR'S STANDARD	SEE PLANS	SEE PLANS	.07"		WHITE	SEE PLANS	SEE SPECS				
С	TITUS	50F	CUBE CORE	X	LAY-IN	24x12"	22x10"	1000	.05"		WHITE	SEE PLANS	SEE SPECS				
D	TITUS	50F	CUBE CORE	X	LAY-IN	24x24"	22x22"	2200	.05"		WHITE	SEE PLANS	SEE SPECS				

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PINNACLE AGRICULTURE HOLDINGS, LLC

Lic. No. 054747 SEAL:



H.V.A.C. SCHEDULES

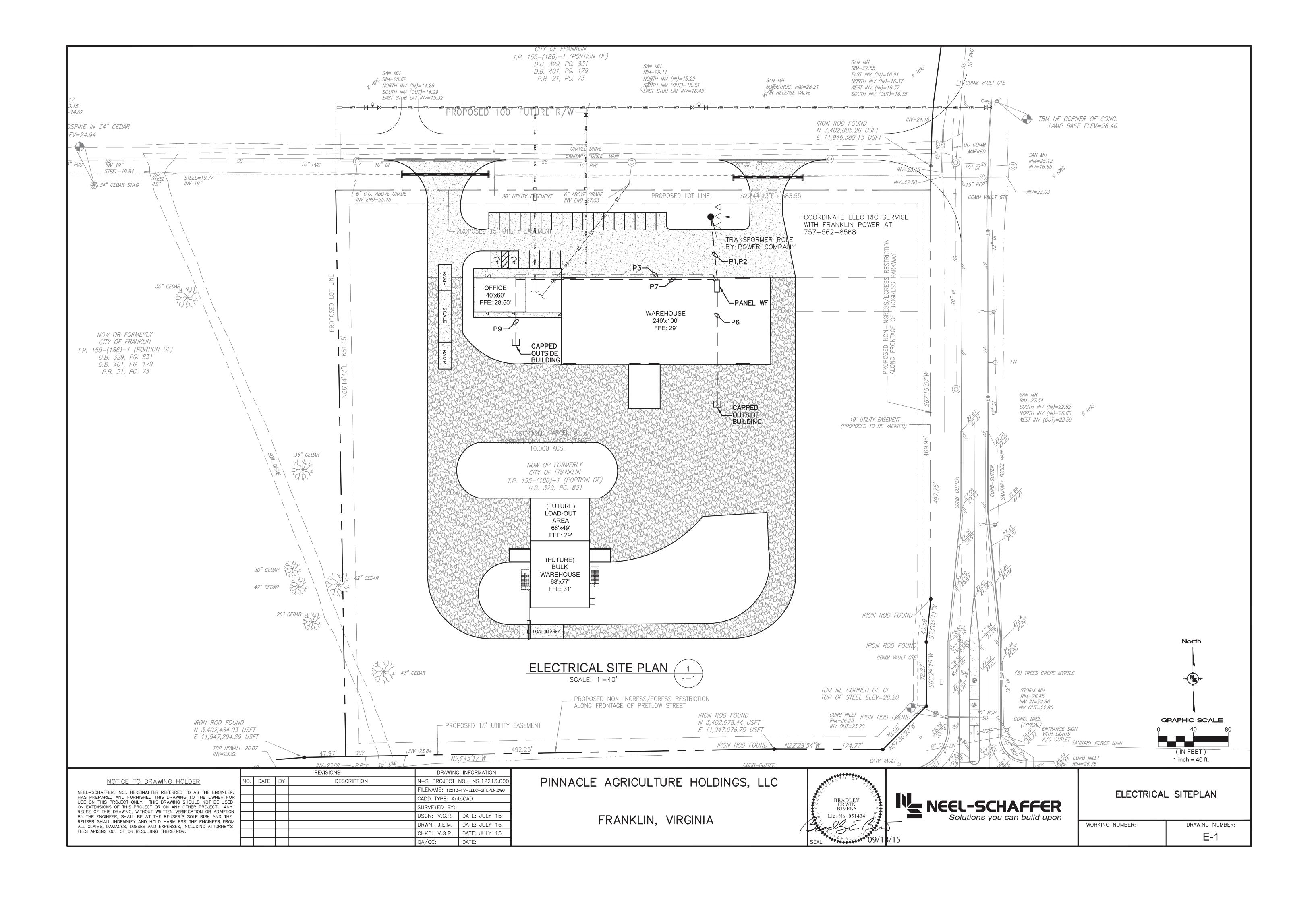
112 Lone Wolf Dr./Madison, Ms 39110 Ph. (601)859—9864/Fax (601)859—2564/Email www.scweng.com

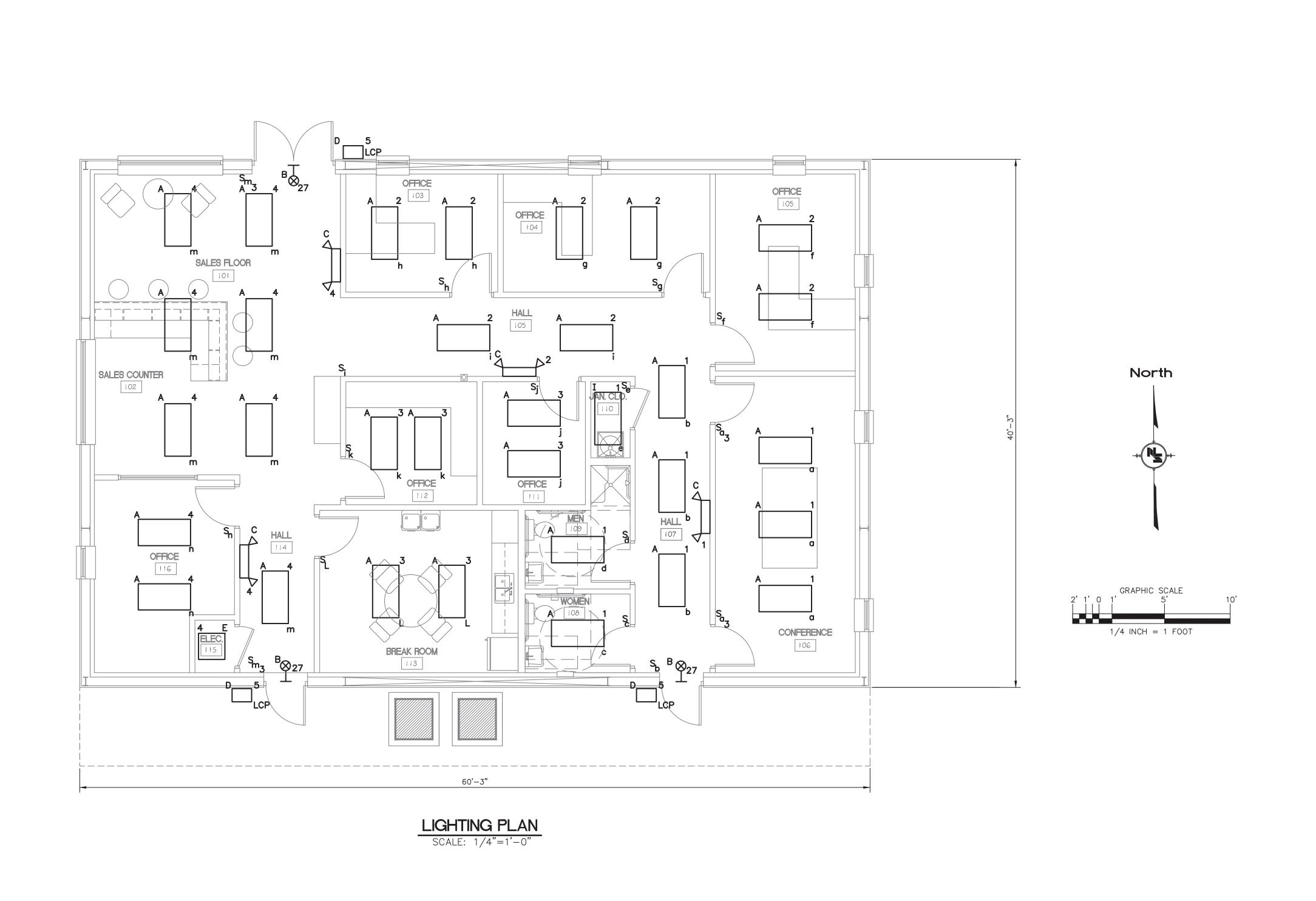
Scwa #15-068

Scott C. Woods and Associates

WORKING NUMBER: DRAWING NUMBER: M-4

FRANKLIN, VA





	L
NOTICE TO DRAWING HOLDER	
EL—SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, S PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR E ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY USE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE USER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM L CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S	
ES ARISING OUT OF OR RESULTING THEREFROM.	ı

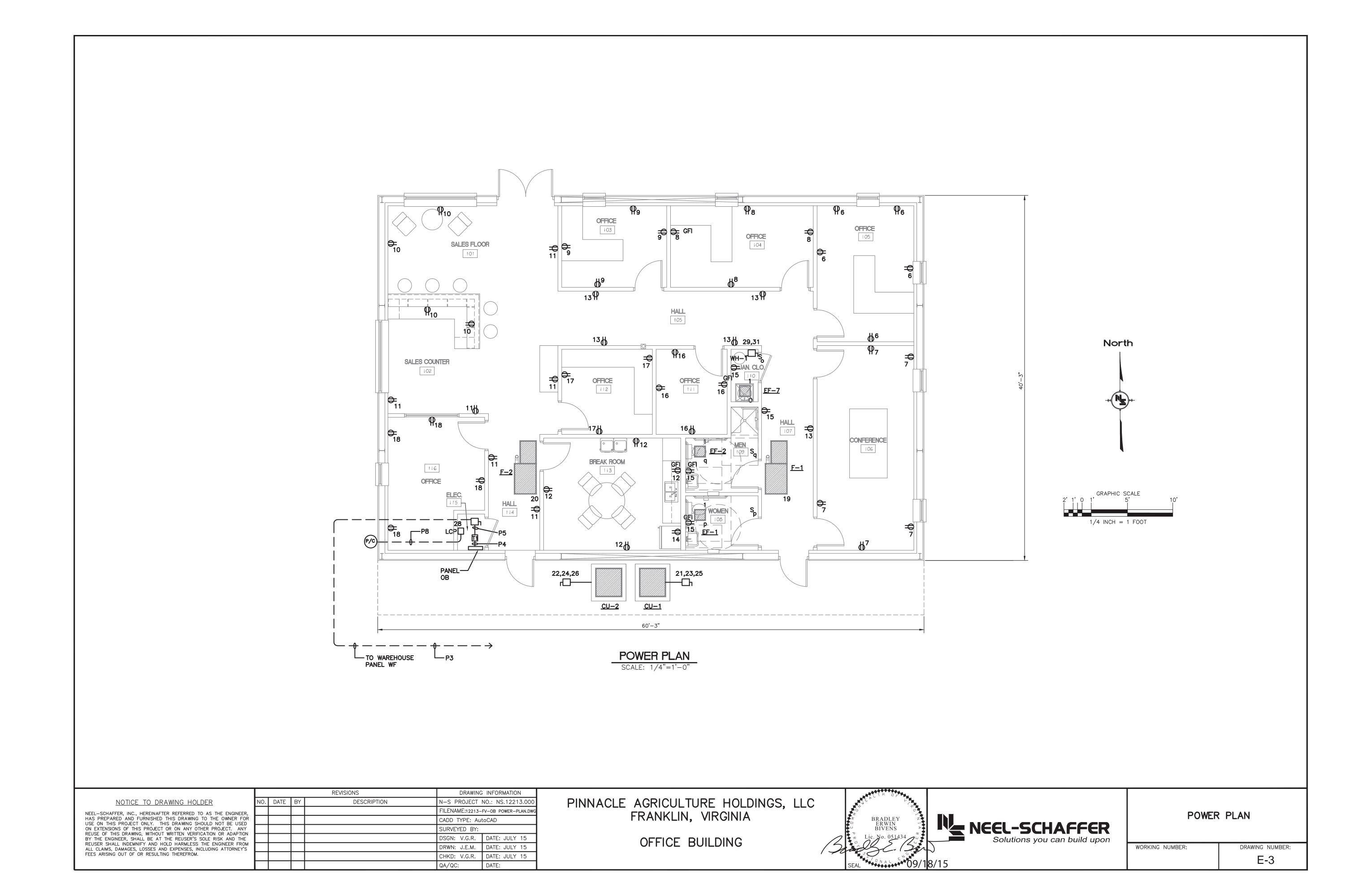
				REVISIONS	DRAWING	INFORMATION	
TO DRAWING HOLDER	NO.	DATE	BY	DESCRIPTION	N-S PROJECT	NO.: NS.12213.000	
EREINAFTER REFERRED TO AS THE ENGINEER,					FILENAME: 12213-	-FV-OB LIGHT-PLAN.DWG	
IRNISHED THIS DRAWING TO THE OWNER FOR DNLY. THIS DRAWING SHOULD NOT BE USED					CADD TYPE: AutoCAD		
PROJECT OR ON ANY OTHER PROJECT. ANY WITHOUT WRITTEN VERIFICATION OR ADAPTION					SURVEYED BY:		
L BE AT THE REUSER'S SOLE RISK AND THE					DSGN: V.G.R.	DATE: JULY 15	
Y AND HOLD HARMLESS THE ENGINEER FROM OSSES AND EXPENSES, INCLUDING ATTORNEY'S					DRWN: J.E.M.	DATE: JULY 15	
R RESULTING THEREFROM.					CHKD: V.G.R.	DATE: JULY 15	
		·			QA/QC:	DATE:	

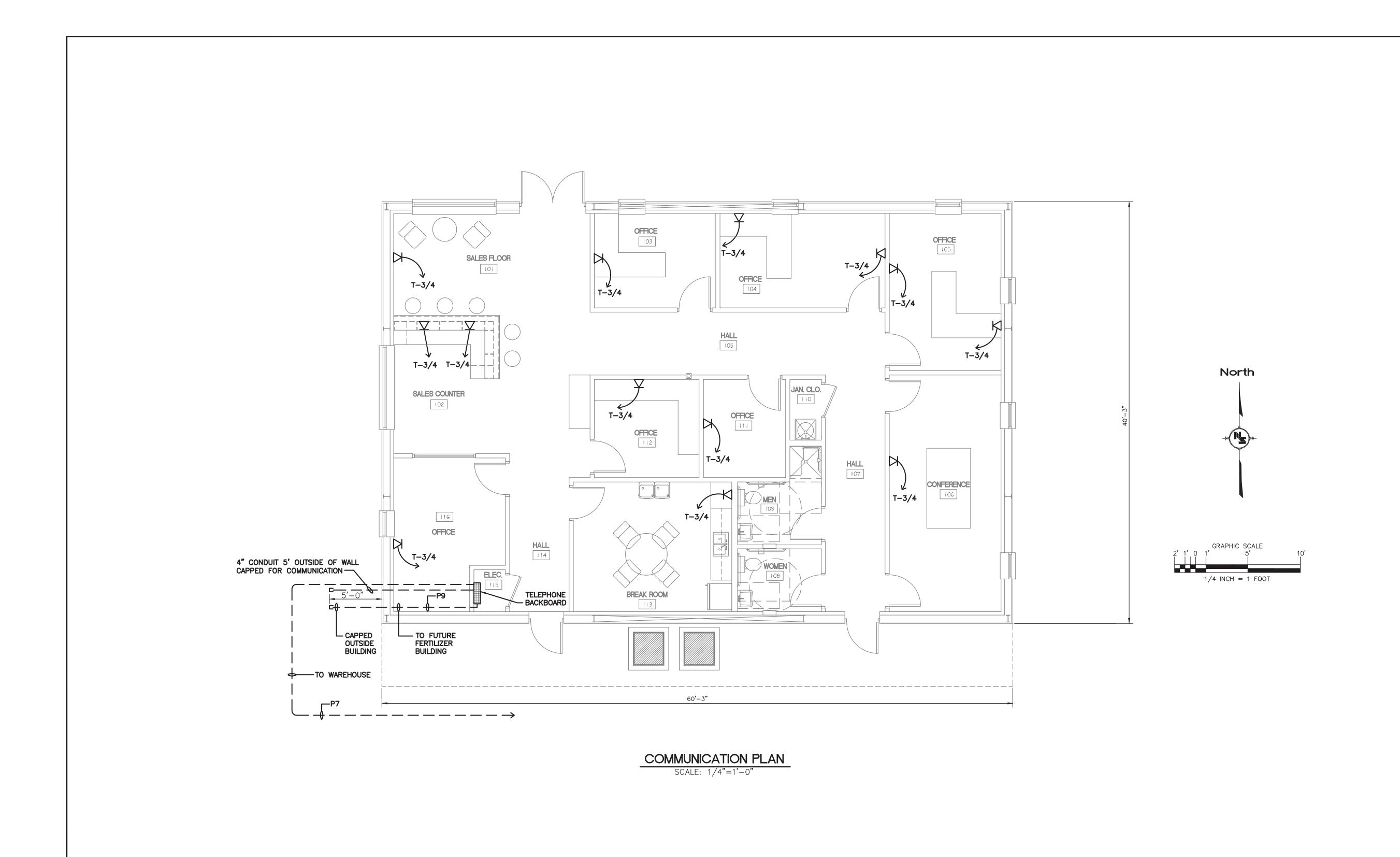
OFFICE BUILDING



LIGHTING	PI AN

WORKING NUMBER:	DRAWING NUMBER:
	F_2

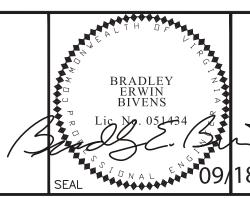




NOTICE TO DRAWING HOLDER	Ν
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HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED	
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REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S	Г
FEES ARISING OUT OF OR RESULTING THEREFROM.	

			REVISIONS	DRAWING	INFORMATION		
0.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000			
				FILENAME:12213-	FV-OB COMM-PLAN.DWG		
				CADD TYPE: Aut	:oCAD		
				SURVEYED BY:			
				DSGN: V.G.R.	DATE: JULY 15		
				DRWN: J.E.M.	DATE: JULY 15		
				CHKD: V.G.R.	DATE: JULY 15		
				QA/QC:	DATE:		

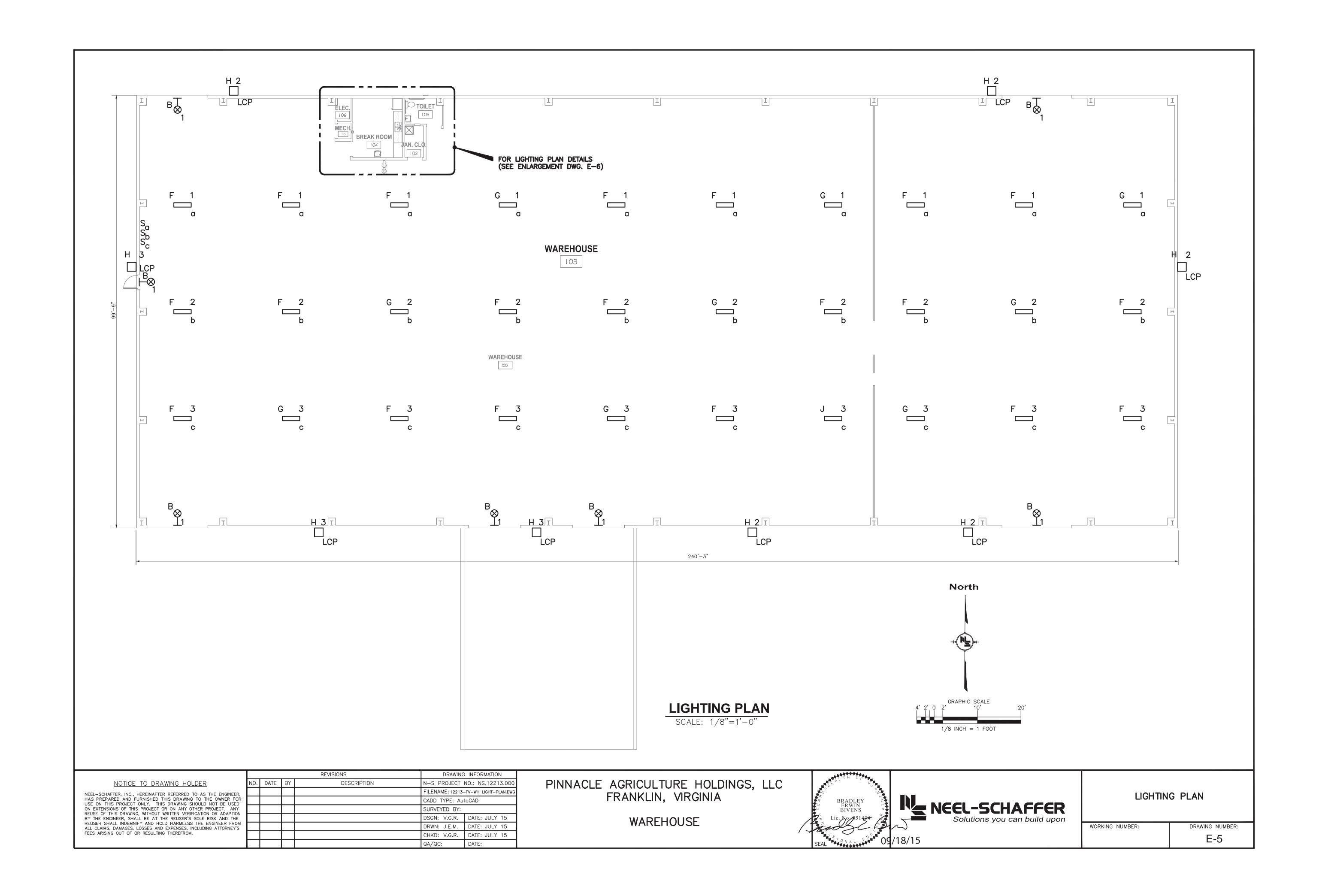
OFFICE BUILDING

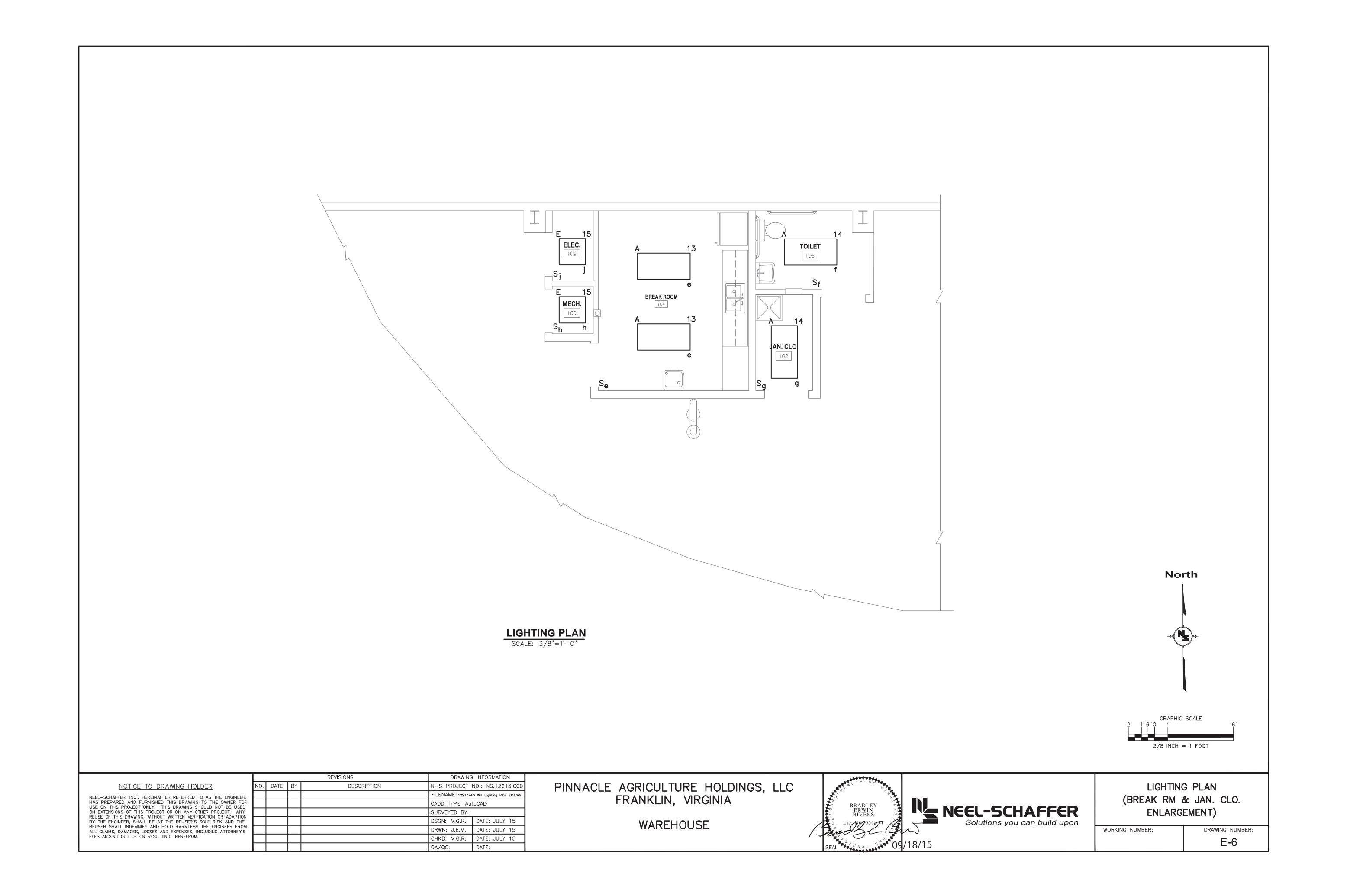


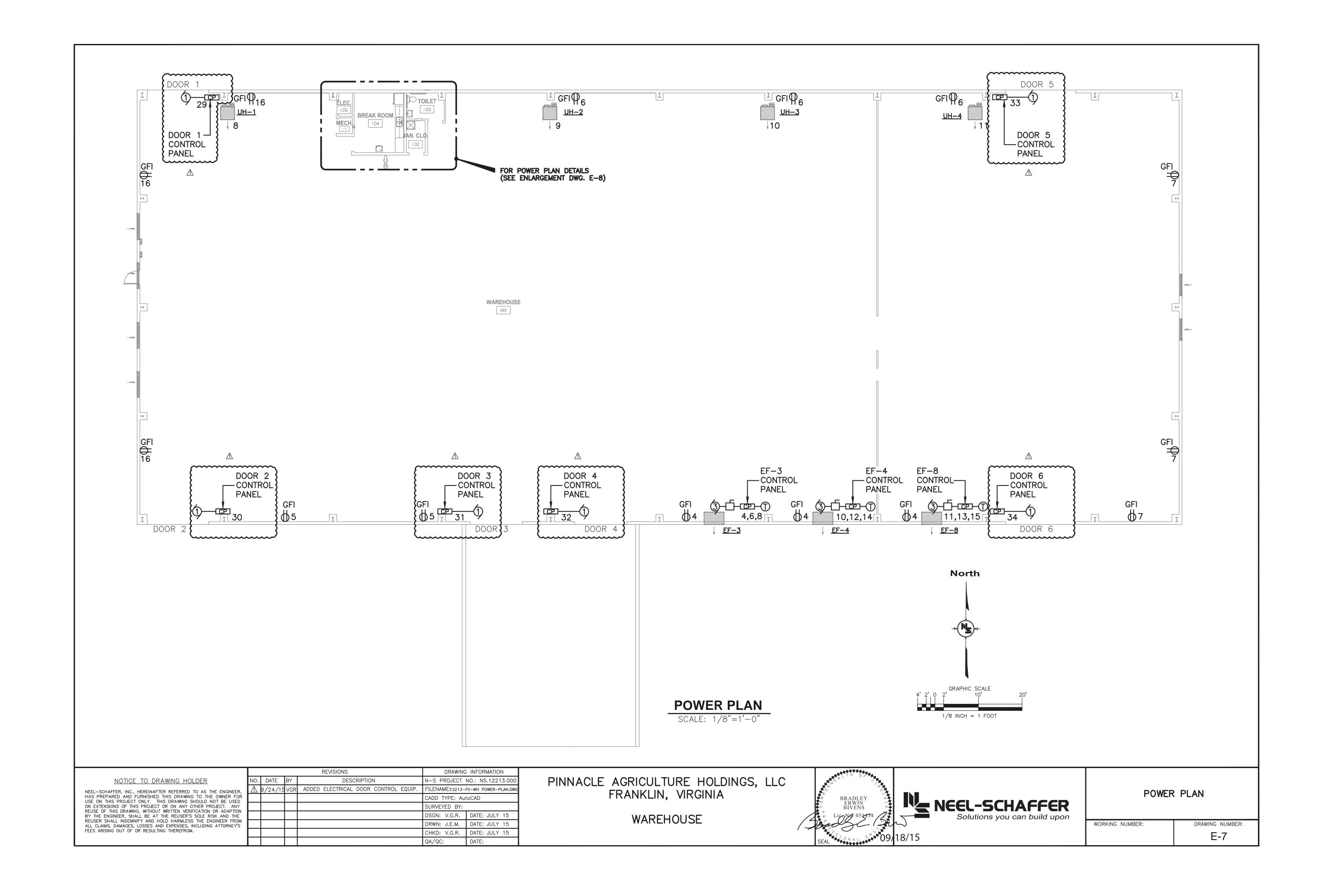
PG V N A		NEEL-SCHAFFER	
3		Solutions you can build upon	
'na.	18/15		

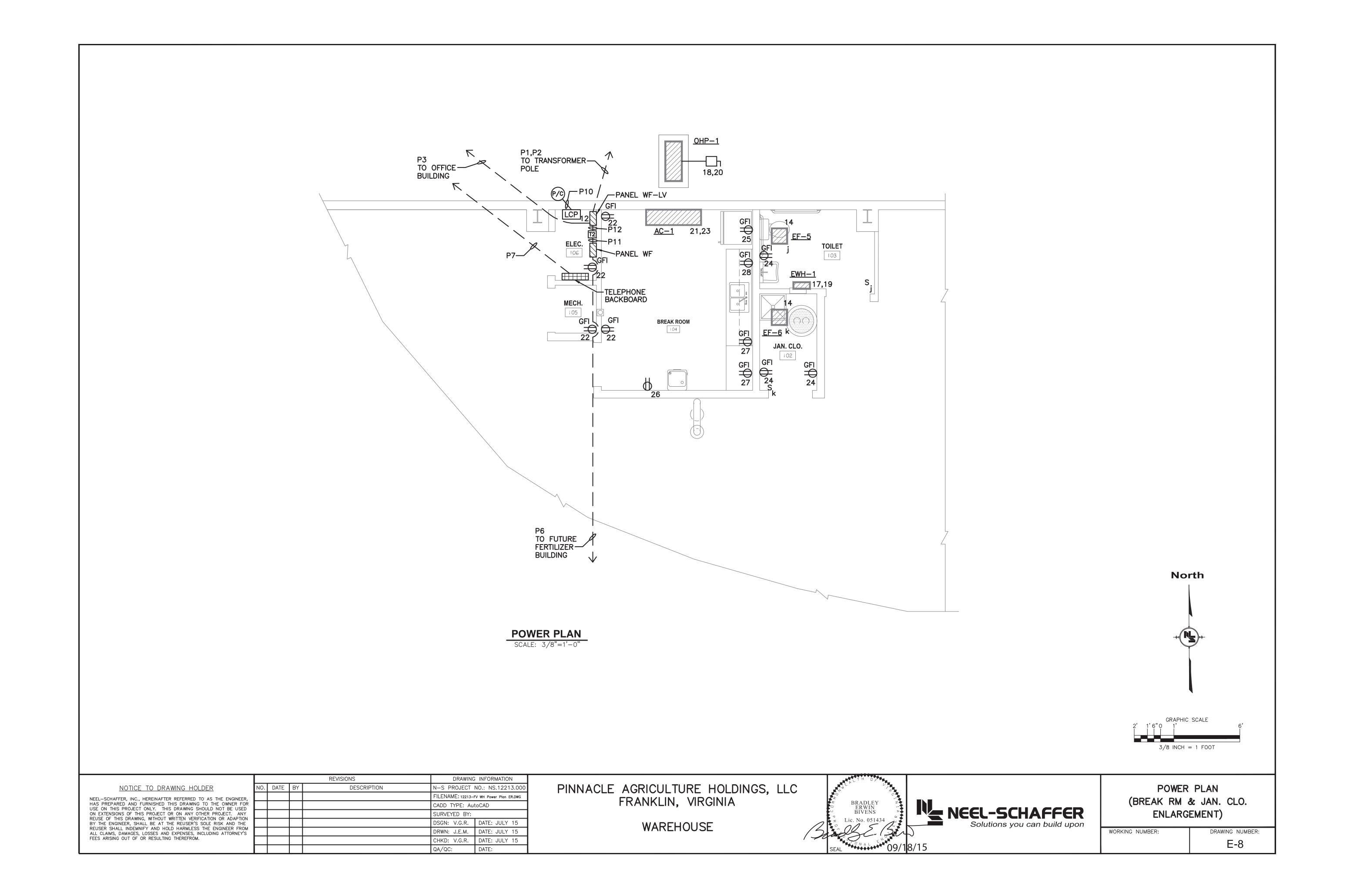
COMMUNICATION PLAN

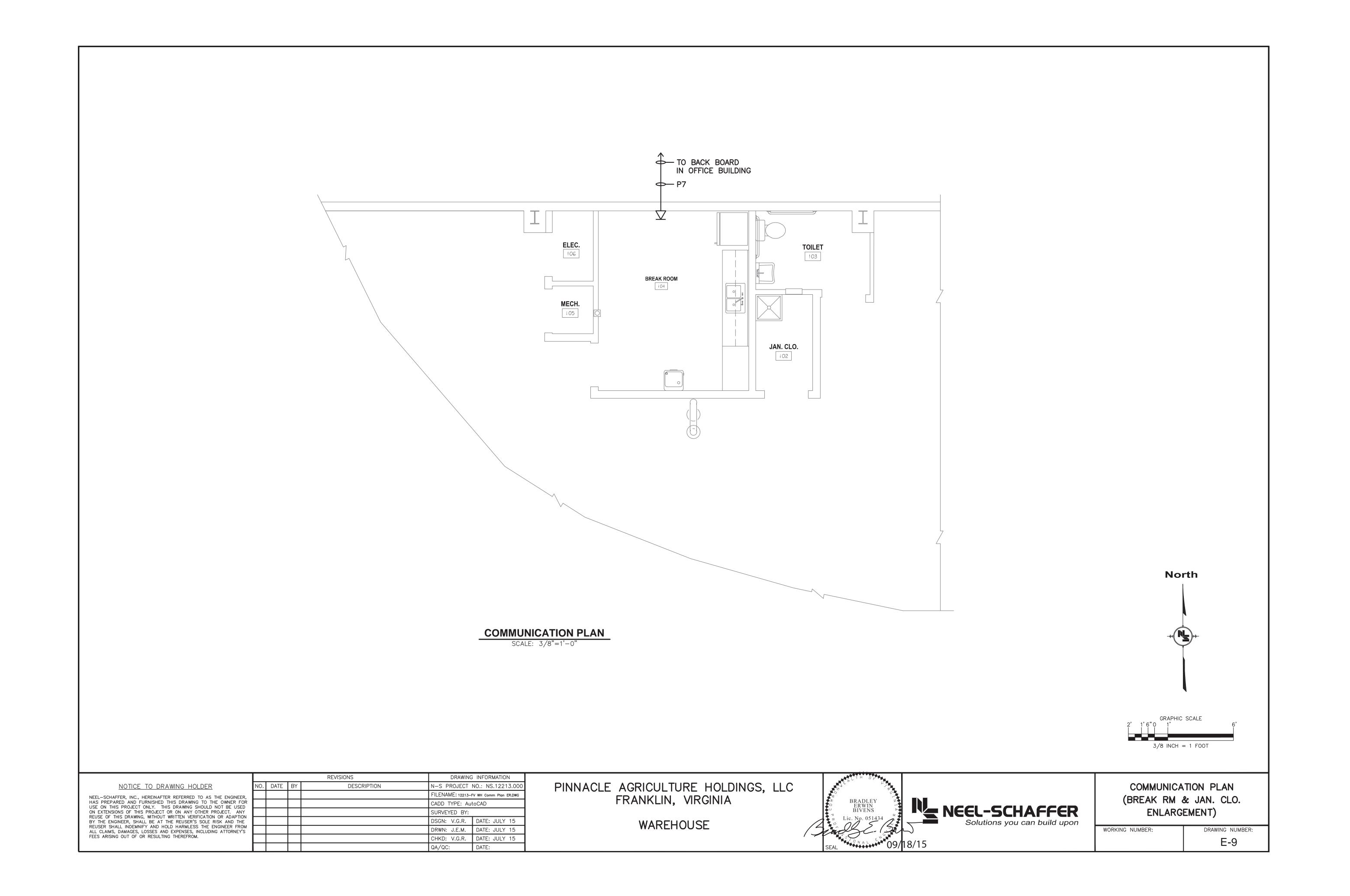
WORKING NUMBER: DRAWING NUMBER: E-4





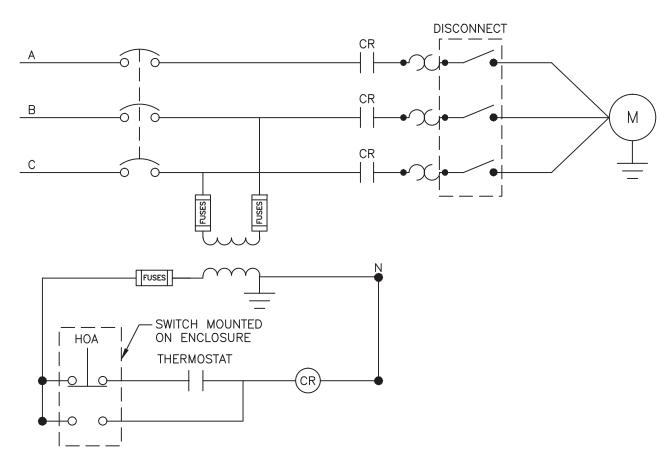




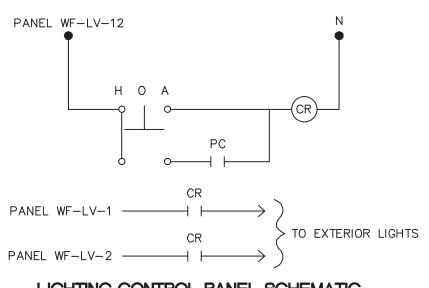


	LIGHTING FIXTURE SCHEDULE											
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMPS	BALLAST	VOLTS	MOUNTING	REMARKS				
А	2X4 TROFFER	COOPER	2GR8-332A125-UNV	3-32W T8	ES	120	LAY IN					
В	EXIT	COOPER	LXP-7	MFG STD	MFG STD	120	WALL					
С	EMERGENCY	COOPER	UMB-14	MFG STD	MFG STD	120	WALL					
D	WALL	COOPER	GP-MH-100	MH 100	ES	120	WALL					
E	COMPACT FLUORESENT	COOPER	H2EF	2-26W DTT	ES	120	CEILING					
F	FLUORESENT HIGH BAY	SIMKAR	REF-654-SSR	6-54W T5H0	ES	120/277	SUSPENDED AS INDICATED					
G	FLUORESENT HIGH BAY	SIMKAR	REF-654-SSR	6-54W T5H0	ES	120/277	SUSPENDED AS INDICATED	WITH EMERGENCY BATTERY BACKUP				
Н	WALL	COOPER	MPWP-250	MH 250W	ES	120	WALL	GLASS LENS, CORROSION RESISTANCE				

	SCHEDULE - DRY TYPE TRANSFORMER											
MARK	MARK KVA PRIMARY SECONDARY TAPS MIN. IMPEDANCE MOUNTING						REMARKS	LOCATION				
T-1	T-1 45 480V DELTA 208/120-3ø 2 - 5% 2+4- 3.3% FLOOR							OPERATIONS BUILDING				
T-2	30	480V DELTA	208/120-3ø	2 - 5% 2+4-	3.3%	FLOOR		WAREHOUSE				

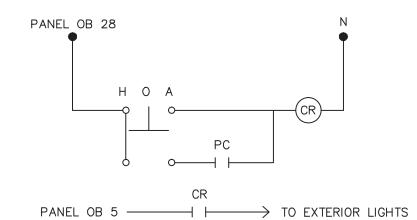


EF-3,4 AND 8 SCHEMATIC





DRAWING INFORMATION



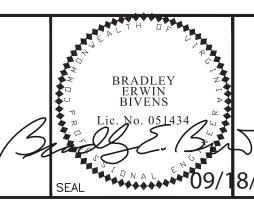
LIGHTING CONTROL PANEL SCHEMATIC FOR OFFICE BUILDING

REVISIONS O. DATE BY NOTICE TO DRAWING HOLDER DESCRIPTION NEEL—SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR AND THE

N-S PROJECT NO.: NS.12213.00 REVISED ELECTRICAL SYMBOL LEGEND FILENAME:12213-ELEC-DET-1.DWG √9/24/15 VGR CADD TYPE: AutoCAD SURVEYED BY: DSGN: V.G.R. DATE: JULY 15 BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM DRWN: J.E.M. DATE: JULY 15 ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. CHKD: V.G.R. DATE: JULY 15 QA/QC:

PINNACLE AGRICULTURE HOLDINGS, LLC FRANKLIN, VIRGINIA

OFFICE BUILDING



NEEL-SCHAFFEF Solutions you can build upon	
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ELECTRICAL PLAN SYMBOLS LEGEND

HOME RUN TO PANEL; THREE CONDUCTORS PLUS GRD. HOME RUN TO PANEL, 2 CIRCUITS IN ONE RACEWAY SINGLE POLE TOGGLE SWITCH DOUBLE POLE TOGGLE SWITCH

> NON-FUSED DISCONNECT SWITCH SIMPLEX CONVENIENCE OUTLET

SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT

 \ominus_{36} " | DUPLEX CONVENIENCE OUTLET (# = INCHES ABOVE FLOOR) CONV. OUTLET W/ GROUND FAULT INTERRUPTER

PHOTO ELECTRIC CONTROL / SENSING CELL AIMED NORTH

FLUORESCENT TYPE LIGHTING FIXTURE NOTATIONS SAME AS ABOVE

EMERGENCY LIGHTING BATTERY UNIT WITH 2 LAMP HEADS

TELEPHONE / DATA HOME RUN TO TELEPHONE BACKBOARD CONDUIT SIZE WITH 1-RT 45 AND RT 11 CONDUCTOR

INCANDESCENT, COMPACT FLUORESCENT OR HID

WALL OUTLET AND INCANDESCENT, COMPACT FLUORESCENT OR HID TYPE LIGHTING FIXTURE NOTATIONS SAME AS ABOVE

WEATHERPROOF CONV. OUTLET W/ G.F.I.

TELEPHONE / DATA WALL OUTLET

POWER SUPPLY PANEL

BRANCH CIRCUIT EXPOSED

TELEPHONE PANEL BRANCH CIRCUIT CONCEALED IN WALL - - | BRANCH CIRCUIT CONCEALED IN FLOOR

> THREE WAY SWITCH FOUR WAY SWITCH

240 VAC RECEPTACLE

THERMOSTAT 5'-6" UP

TYPE LIGHTING FIXTURE "A" FIXTURE TYPE

"3" CIRCUIT NUMBER

WALL MOUNTED EXIT SIGN

CONDENSING UNIT

MANUFACTURES FURNISHED PANEL

REMOTE CONTROL PANEL

COMBINATION MOTOR STARTER

OVERHEAD DOOR CONTROL PANEL

480 VAC, 60 AMP 3 POLE CROUSE HINDS ARKTITE RECEPTACLE
WITH ANGLE ADAPTER AND BACK BOXES. CAT AREA6414

EMERGENCY STOP

EXHAUST FAN

WATER HEATER

"b" CONTROLLED BY SWITCH "b"

MOTOR (H.P.)

JUNCTION BOX

——UG—— UNDERGROUND CIRCUIT

F-1,2

LIGHTING PANEL

ELECTRICAL DETAILS I

WORKING NUMBER: DRAWING NUMBER: E-10

CIRCUIT NUMBER	WIRE SIZE	BREAKER SIZE		ESCRIPTION OF LOAD	LOAD KVA	A K	VA PER PHA B	ASE C	LOAD KVA	DESCRIPTION OF LOAD	BREAKER SIZE	WIRE SIZE	CIRCUIT NUMBER
1	#12	20A/1P	LIGHTING	, CONF, HALL, RR	1.00	2.00	/////		1.00	LIGHTING OFF 104, 105	20A/1P	#12	2
3	#12	20A/1P	LIGHTING	OFF 111, 112, BR	0.20		1.30		1.10	LIGHTING SALES OFF	20A/1P	#12	4
5	#12	20A/1P	LIGHT	ING, EXTERIOR	0.40			1.20	0.80	RECEPTACLES OFF 105	20A/1P	#12	6
7	#12	20A/1P	RECER	PTACLES CONF	1.00	1.80			0.80	RECEPTACLES OFF 104	20A/1P	#12	8
9	#12	20A/1P	RECEP1	TACLES OFF 113	0.80		1.80		1.00	RECEPTACLES SALES	20A/1P	#12	10
11	#12	20A/1P	RECEPTAG	CLES SALES, HALL	1.00			1.80	0.80	RECEPTACLES BK RM	20A/1P	#12	12
13	#12	20A/1P	RECEF	PTACLES, HALL	1.00	1.20			0.20	RECEPTACLES, REF	20A/1P	#12	14
15	#12	20A/1P	RECEPTAC	CLES, JAN CLO, RR	0.80		1.60		0.80	RECEPTACLES OFF 111	20A/1P	#12	16
17	#12	20A/1P	RECEP1	FACLES OFF 112	0.80			1.80	1.00	RECEPTACLES OFF 116	20A/1P	#12	18
19	#12	20A/1P		F1	0.50	1.00			0.50	F2	20A/1P	#12	20
21	#10	30A/3P		CU-1	2.20		4.40		2.20	CU-2	30A/3P	#10	22
23	# 10	_			2.20			4.40	2.20		_	#10	24
25	#10	_			2.20	4.40			2.20		_	#10	26
27	#12	20A/1P	LIG	HTING, EXIT	0.50		1.00		0.50	LIGHTING CONTROL PANEL	20A/1P	#12	28
29	# 10	30A/2P	WA	TER HEATER	2.30			2.30					30
31	# 10	_			2.30	2.30							32
33													34
35													36
37													38
39													40
41													42
	POWER PA		M	TOTAL KVA		12.70	10.10	11.50		SERVICE CHA 120/208V - 3 PHAS	SE - 4 WIRI	E — 60 H	- Нz.
	IN OFFICE			GRAND CONNECTOTAL KVA	TED	34.30				175 ÁMP. MAIN BREAKER WITH 200 AMP. BUS PROVIDE GROUND BUS			

CIRCUIT	WIRE	BREAKER	DESCRIPTION	LOAD	K۱	/A PER PHA	\SE	LOAD	DESCRIPTION	BREAKER	WIRE	CIRCUIT
NUMBER	SIZE	SIZE	OF LOAD	KVA	А	В	С	KVA	OF LOAD	SIZE	SIZE	NUMBE
1	#12	20A/1P	LIGHTING	3.90	6.40			3.90	LIGHTING	20A/1P	#12	2
3	#12	20A/1P	LIGHTING	3.80		5.20		1.40	EF-3	30A/3P	#10	4
5	#6	50A/3P	WAREHOUSE TRANS	10.00			11.40	1.40		_	#10	6
7	#6	_	T-2	10.00	11.40			1.40		_	#10	8
9	#6	_		10.00		11.40		1.40	EF-4	30A/3P	#10	10
11	#10	30A/3P	EF-8	1.40			2.80	1.40		_	#10	12
13	#10	_		1.40	2.80			1.40		_	#10	14
15	#10	_		1.40		16.40		15.00	OPERATIONS BLDG	70A/3P	#2	16
17	_	300A/3P	FERTILIZER BUILDING	53.00			73.00	15.00	TRANS T-1	_	#2	18
19	_	_	FUTURE	53.00	73.00			15.00		_	#2	20
21	_	_		53.00		53.00						22
23							1					24
25												26
27												28
29							1					30
31												32
33												34
35							1					36
37												38
39												40
41												42
POWER PANEL WF LOCATED IN WAREHOUSE			TOTAL KVA		95.00	86.00	87.20		SERVICE CH 277/480V - 3 PH/	HARACTERISTI ASE – 4 WIR	CS: E — 60 H	∃z.
						268.20	277/480V - 3 PHASE - 4 WIRE - 400 AMP. MAIN BREAKER WITH 400 PROVIDE GROUND BUS			DO AMP.	BUS	

					F	PANEL W	F-LV SO	CHEDU	LE				
CIRCUIT NUMBER	WIRE SIZE	BREAKER SIZE	[DESCRIPTION OF LOAD	LOAD KVA	KV A	/A PER PHA B	SE C	LOAD KVA	DESCRIPTION OF LOAD	BREAKER SIZE	WIRE SIZE	CIRCU
1	#12	20A/1P	LI	GHTING EXIT	0.60	1.50			0.90	LIGHTING, EXTERIOR	20A/1P	#12	2
3	#12	20A/1P	LIGH	TING, EXTERIOR	0.90		1.50		0.60	RECEPTACLES	20A/1P	#12	4
5	#12	20A/1P	R	ECEPTACLES	0.40			1.00	0.60	RECEPTACLES	20A/1P	#12	6
7	#12	20A/1P	R	ECEPTACLES	0.60	1.40			0.80	UH-1	20A/1P	#12	8
9	#12	20A/1P		UH-2	0.80		1.60		0.80	UH-3	20A/1P	#12	10
11	#12	20A/1P		UH-4	0.80			1.30	0.50	LIGHTING CONTROL PANEL	20A/1P	#12	12
13	#12	20A/1P	LIG	HTING, BK RM	0.30	0.60			0.30	LIGHTING TOILET, JAN	20A/1P	#12	14
15	#12	20A/1P	LIGHTIN	NG, ELEC & MECH	0.20		0.80		0.60	RECEPTACLES	20A/1P	#12	16
17	#12	20A/2P		EWH-1	0.80			1.80	1.00	OHP	20A/2P	#12	18
19	#12	_			0.80	1.80			1.00		_	#12	20
21	#12	20A/1P		AC-1	1.00		1.80		0.80	RECEPTACLES	20A/1P	#12	22
23	#12	_			1.00			1.60	0.60	RECEPTACLES	20A/1P	#12	24
25	#12	20A/1P	REC	CEPTACLE, REF	0.50	0.70			0.20	RECEPTACLE, DRINK	20A/1P	#12	26
27	#12	20A/1P	~~\ [[]	RECEPTACLE	0.40		0.60		0.20	RECEPTACLES	20A/1P	#12	28
29	#8	40A/1P	D00	R 1 OPERATOR	2.00			4.00	2.00	DOOR 2 OPERATOR	40A/1P	#8	30
31	#8	40A/1P	DOO	R 3 OPERATOR	2.00	4.00			2.00	DOOR 4 OPERATOR	40A/1P	#8	32
33	#8	40A/1P	DOO	R 5 OPERATOR	2.00		4.00		2.00	DOOR 6 OPERATOR	40A/1P	#8	34
35	~~~				4				1				36
37									1				38
39									1				40
41									1				42
	POWER PANEL WF-LV LOCATED IN WAREHOUSE GRAND CONNEC TOTAL KVA			}	10.00	10.30	9.70	}	SERVICE CHA 120/208V — 3 PHAS	ARACTERIST SE – 4 WIR	ICS: E — 60 H	······································	
LOC						30.00			1	120/208V — 3 PHASE — 4 WIRE — 60 Hz. 100 AMP. MAIN BREAKER WITH 100 AMP. BUS PROVIDE GROUND BUS			

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			REVISIONS	DRAWING	INFORMATION	
١٥.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000		
Λ	9/24/15	VGR	REVISED PANEL WF-LV SCHEDULE	FILENAME:12213-ELEC-DET-2.DWG		
				CADD TYPE: AutoCAD		
				SURVEYED BY:		
				DSGN: V.G.R.	DATE: JULY 15	
				DRWN: J.E.M.	DATE: JULY 15	
				CHKD: V.G.R.	DATE: JULY 15	
				QA/QC:	DATE:	

PINNACLE AGRICULTURE HOLDINGS, LLC FRANKLIN, VIRGINIA

OFFICE BUILDING



ELECTRICAL DETAILS II

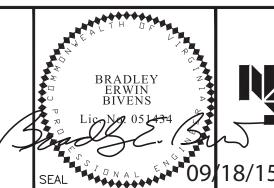
WORKING NUMBER: DRAWING NUMBER: E-11



NOTICE TO DRAWING HOLDER NEEL—SCHAFFER, INC., HEREINAFTER REFERRED TO AS THE ENGINEER, HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEWNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM.		
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	HAS PREPARED AND FURNISHED THIS DRAWING TO THE OWNER FOR USE ON THIS PROJECT ONLY. THIS DRAWING SHOULD NOT BE USED ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT. ANY REUSE OF THIS DRAWING, WITHOUT WRITTEN VERIFICATION OR ADAPTION BY THE ENGINEER, SHALL BE AT THE REUSER'S SOLE RISK AND THE REUSER SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S	

			REVISIONS	DRAWING INFORMATION		
٧٥.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000		
				FILENAME:12213-ELEC-DET-3.DWG		
				CADD TYPE: AutoCAD		
				SURVEYED BY:		
				DSGN: V.G.R.	DATE: JULY 15	
				DRWN: J.E.M.	DATE: JULY 15	
	·			CHKD: V.G.R.	DATE: JULY 15	
				04/00:	DATE	

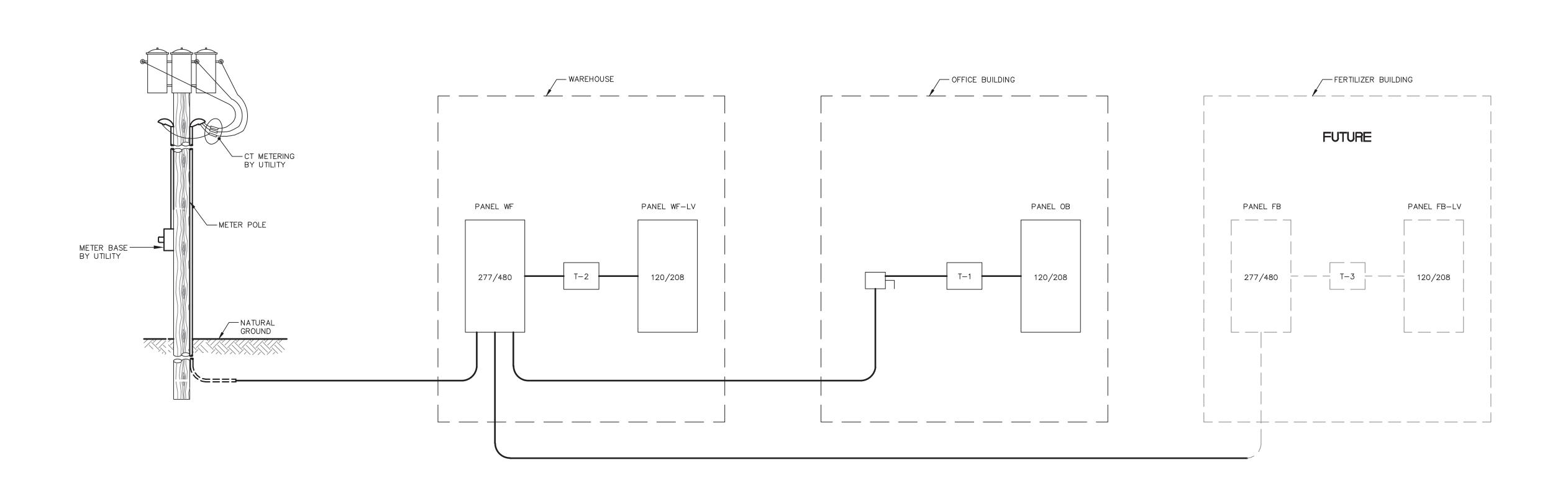
OFFICE BUILDING



	NEEL NEEL	L-SCHAFFER
3	Sol	utions you can build upon
ا ہ	14045	

ELECTRICAL DETAILS III

WORKING NUMBER: DRAWING NUMBER: E-12



			REVISIONS	DRAWING INFORMATION			
0.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: NS.12213.000			
				FILENAME:12213-ELEC-DET-4.DWG			
				CADD TYPE: AutoCAD			
				SURVEYED BY:			
				DSGN: V.G.R.	DATE: JULY 15		
				DRWN: J.E.M.	DATE: JULY 15		
				CHKD: V.G.R.	DATE: JULY 15		
				QA/QC:	DATE:		

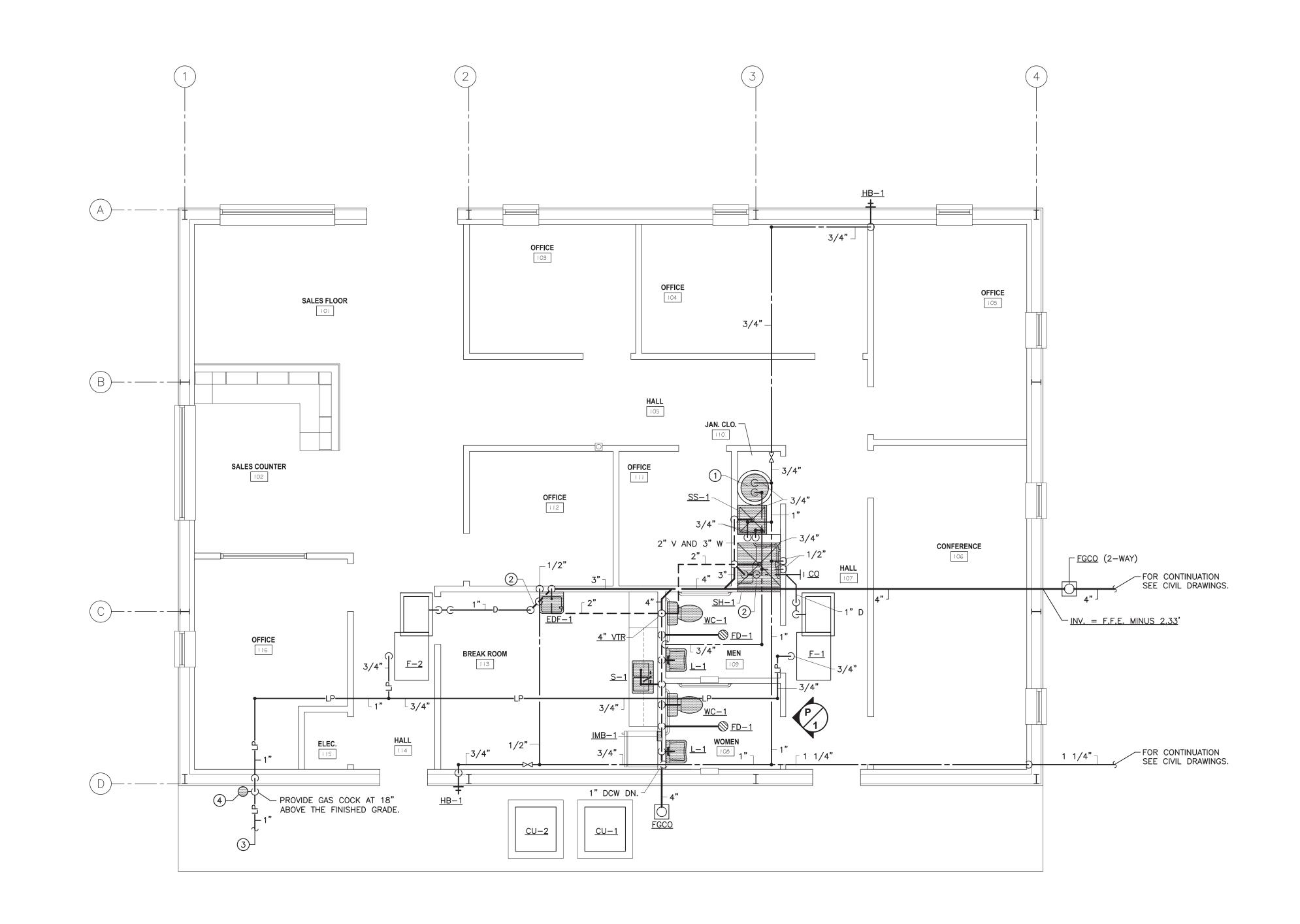
ONE-LINE DIAGRAM
SCALE: N.T.S.

OFFICE BUILDING



ELECTRICAL	DETAILS	IV

WORKING NUMBER:	DRAWING NUMBER:
	E-13



GENERAL PLUMBING NOTES

1. THIS CONTRACTOR SHALL COORDINATE SEWER INVERTS WITH CIVIL CONTRACTOR BEFORE INSTALLING PIPE.

GENERAL PLUMBING NOTES

1 INDICATES 3/4" DOMESTIC COLD WATER LINE AND DOMESTIC HOT WATER LINE DOWN TO $\underline{\text{WH-1}}$ ABOVE THE CEILING.

FOR CONTINUATION AND LOCATION OF THE LP TANK SEE CIVIL DRAWINGS. LP COMPANY SHALL PROVIDE LP REGULATOR AT THE TANK SET AT 1,540.0 cfh AND 2 pounds DISCHARGE PRESSURE.

(4) INDICATES LP GAS REGULATOR. SET AT <u>220.0 cfh</u> AND FROM 2 pounds TO 4 ounces.

(2) INDICATES 2" DEEP SEAL P-TRAP ABOVE THE CEILING.

- 2. ALL SANITARY SEWER PIPING SHOWN SHALL BE BELOW THE FLOOR AND SLOPED AT 1/8" PER FOOT MINIMUM UNLESS
- 3. ALL VENT PIPING SHALL BE ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- 4. ALL DOMESTIC WATER PIPING SHOWN SHALL BE ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR SHALL PROVIDE A <u>PDI—A</u> ABOVE CEILING ON EACH DOMESTIC WATER LINE SERVING A SINGLE FIXTURE.
- 6. CONTRACTOR SHALL PROVIDE A GAS COCK, UNION, AND 6" DIRT LEG AT EACH LP GAS CONNECTION TO EQUIPMENT. 7. ALL LP GAS PIPING SHOWN SHALL BE ABOVE THE CEILING UNLESS
- 8. ALL CONDENSATE PIPING SHOWN SHALL BE RUN ABOVE THE CEILING AND SLOPED AT 1/8" PER FOOT MINIMUM. PROVIDE 6" DEEP P-TRAP AT EACH UNIT.
- 9. CONTRACTOR SHALL PROVIDE A FLOAT SWITCH IN EACH AUXILARY DRAIN PAN. INTERLOCK FLOAT SWITCH WITH THE UNIT TO SHUT UNIT DOWN IF WATER IS DETECTED.

NOTED OTHERWISE.

Scott C. Woods and Associates



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OFFICE FLOOR PLAN/PLUMBING

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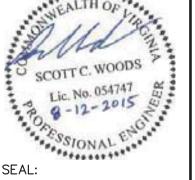
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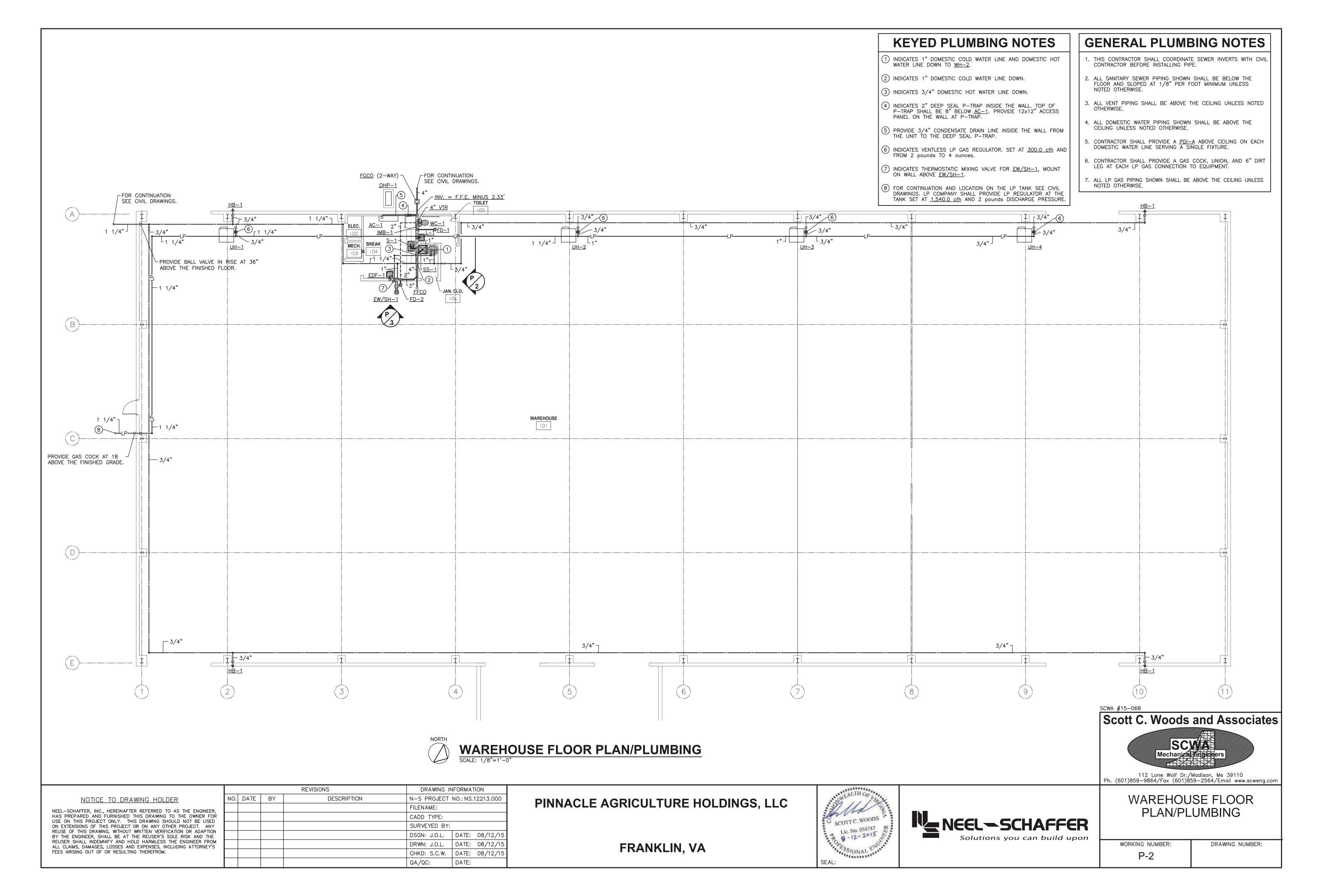
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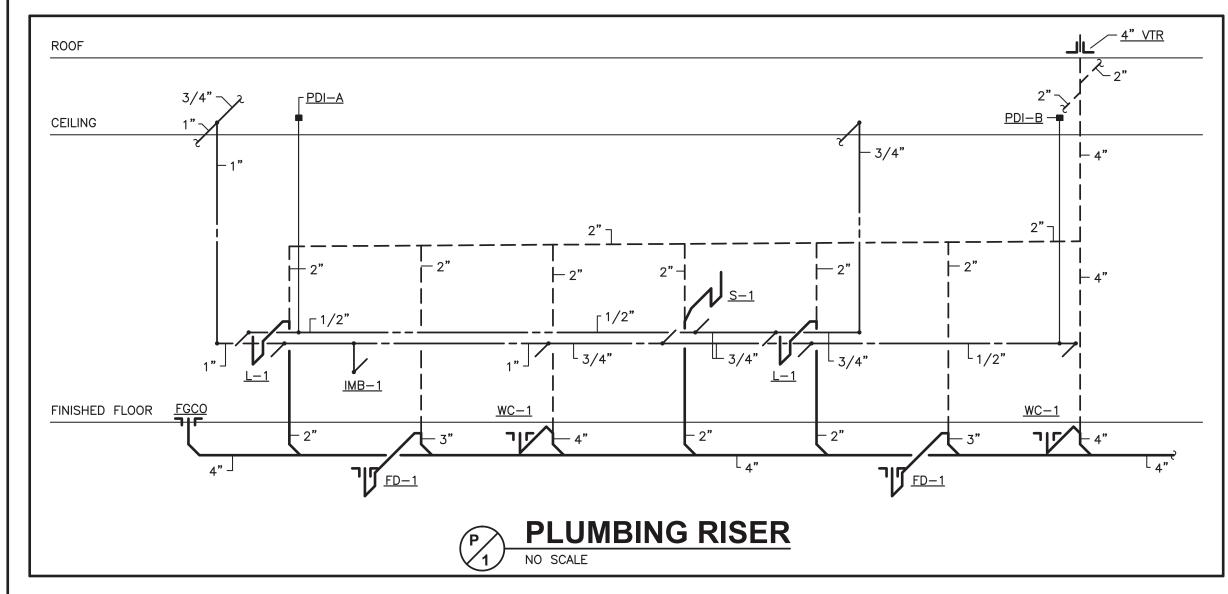
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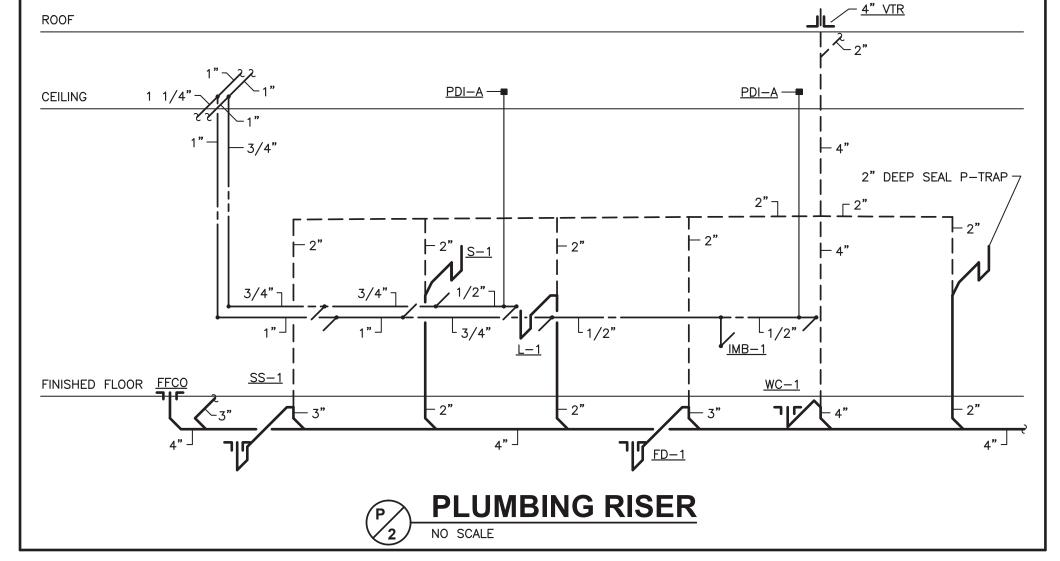
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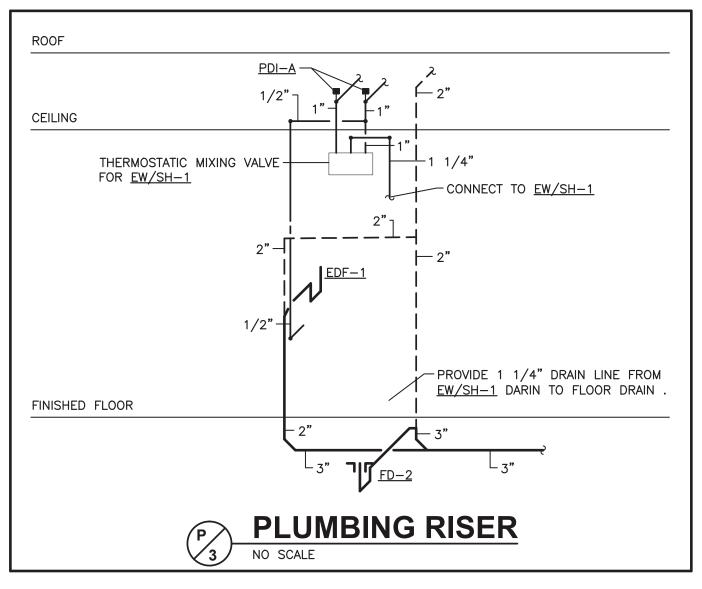


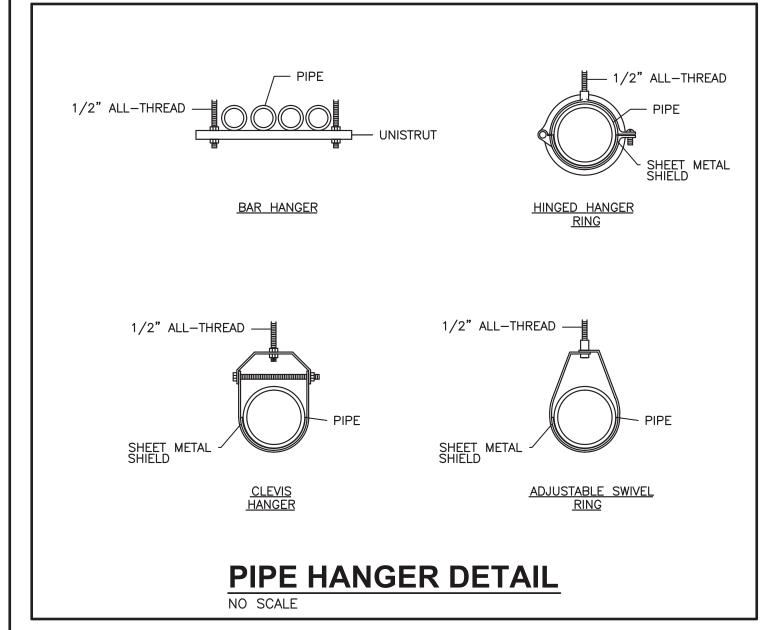


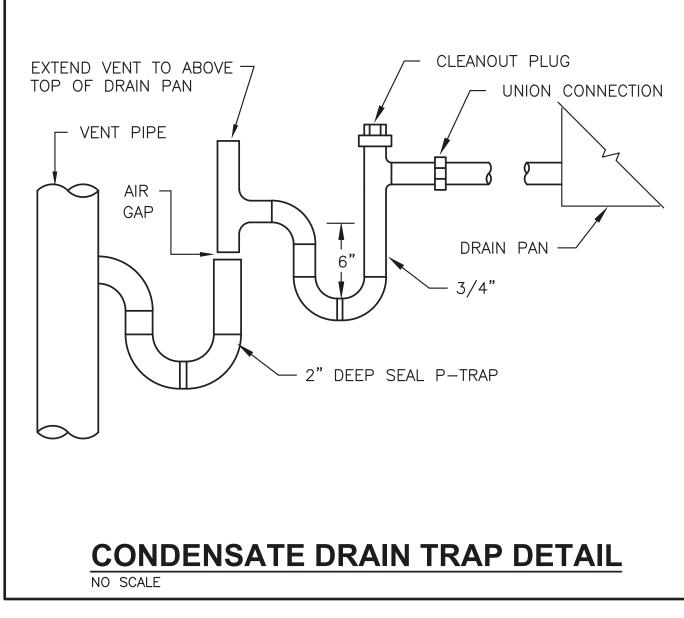


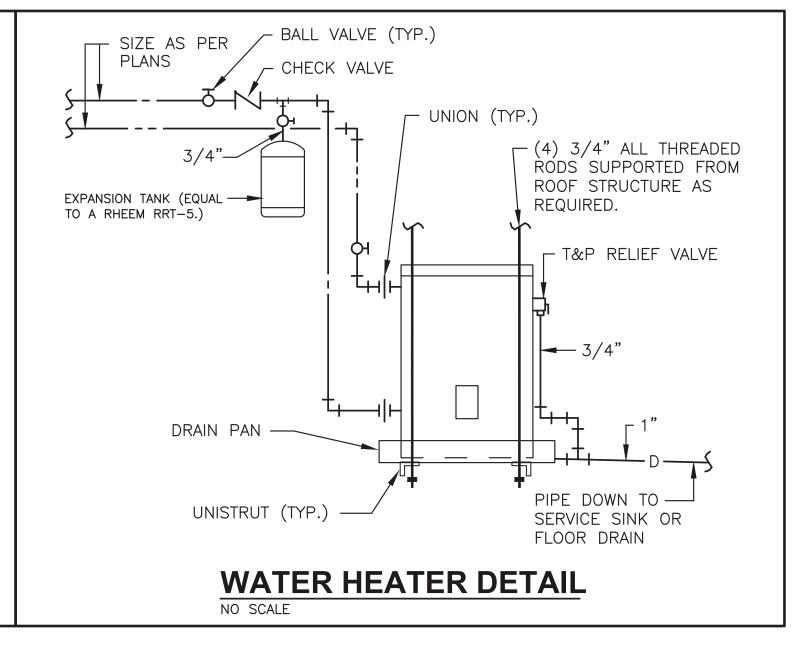


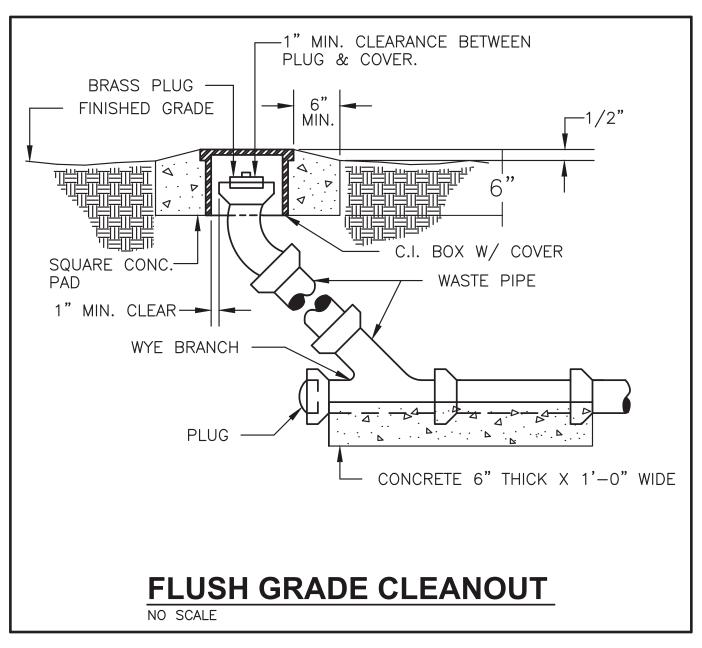


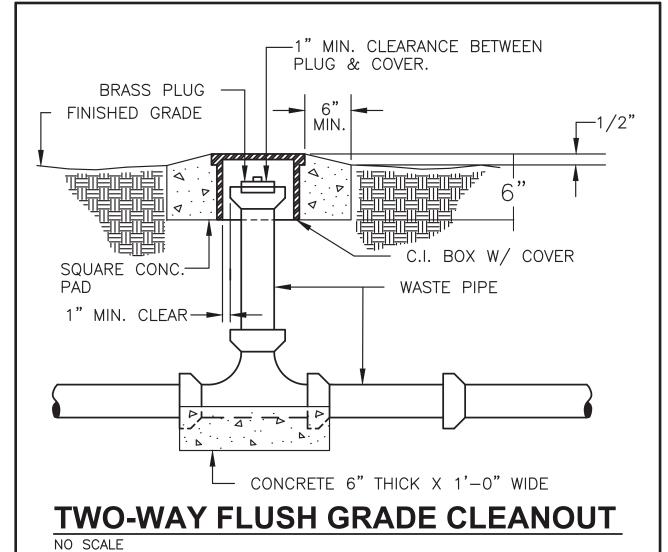


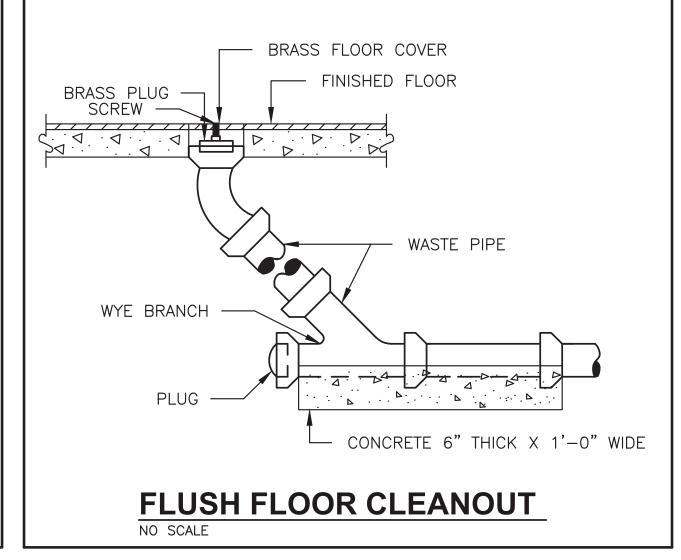












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PLUMBING RISERS AND DETAILS

Scott C. Woods and Associates

WORKING NUMBER: DRAWING NUMBER: P-3

WATER HEATERS INPUT STORAGE RECOVERY GPH @ MARK | BLOWER FLUE FUEL MFR. AND MODEL REMARKS SERVICE GALLONS M.B.H. 100° RISE WH-1 ELECTRIC 18.0 RHEEM ELDS40 NON-SIMULTANEOUS ELEMENTS 40 ---208v,1ph --- (2)4.5 WH-2 ELECTRIC 30 18.0 208v,1ph --- (2)4.5 RHEEM ELDS30 NON-SIMULTANEOUS ELEMENTS ---

				SUPPLY	SUPPLY					ROUGH-IN	J SIZES		
MARK	DESCRIPTION	MAKE	MODEL	FITTING	PIPE(S)	DRAIN	TRAP	C.W.	H.W.	WASTE	VENT	TRAP	REMARKS
WC-1	WATER CLOSET, FLOOR MOUNTED, PRESSURE TANK TYPE, A.D.A.	KOHLER	K-3493		ZURN ZH8824CR			1/2"		4"	2" or 4"	INT.	W/ BEMIS 1055SSC WHITE SEAT, W/ BOLT CAPS.
L-1	LAVATORY, WALL HUNG A.D.A., 20"x18"	KOHLER	K-2032	DELTA 22C151	ZURN ZH8824LR	ZURN Z-8746	ZURN Z8710BN	1/2"	1/2"	2"	2"	1 1/4"	W/ ZURN FIXTURE SUPPORT. COORDINATE ROUGH-IN WITH DRAIN ASSEMBLY. INSULATE DRAIN, P-TRAP AND SUPPLY PIPES WITH TRAP WRAP C500-RHS.
SS-1	SERVICE SINK, FLOOR MOUNTED, 24"x24"	ZURN	Z-1996-24 -SDL-WG	ZURN Z843M1				3/4"	3/4"	3"	2"	3"	WITH VACUUM BREAKER. PROVIDE 12" HIGH WALL GUARDS
S-1	SINK, STAINLESS STEEL, DOUBLE COMPARTMENT 33x22"x7 1/2"	ELKAY	LR-3322	DELTA 300-DST	ZURN ZH8824LR	ELKAY LK-35	ZURN Z8702BN	1/2"	1/2"	2"	2"	1 1/2"	
SH-1	SHOWER, ONE PIECE GELCOAT, A.D.A., OPEN TOP	AQUARIUS	G3636SH	DELTA 11T5143				1/2"	1/2"	2"	2"	2"	WITH VACUUM BREAKER.
EDF-1	ELECTRIC DRINKING FOUNTAIN, W/ BOTTLE FILLING STATION, A.D.A.	ELKAY	LZS8WS		ZURN ZH8824LR		ZURN Z87019BN	1/2"		2"	2"	1 1/2"	WITH ZURN FIXTURE SUPPORT. BASE RATE 8.0 GPH. MOUNT AT A.D.A. HEIGHT.
IMB-1	ICE MAKER BOX	OATEY	38681					1/2"					MOUNT BOTTOM AT 12" ABOVE THE FINISHED FLOOR.
EW/SH-1	EMERGENCY EYEWASH/SHOWER	ACORN SAFETY	S1320					1"	1"	2"	2"		WITH ACORN SAFETY TMV33 THERMOSTATIC MIXING VALVE.
FD-1	FLOOR DRAIN POLISHED BRONZE	ZURN	ZB-415-B							3"	2"	3"	WITH SURE SEAL WATERLESS TRAP PRIMER.
FD-2	FLOOR DRAIN W/POLISHED BRONZE EXTENDED RIM TOP	ZURN	ZB-415-I							3"	2"	3"	WITH SURE SEAL WATERLESS TRAP PRIMER.
HB-1	HOSE BIBB, ENCASED POLISHED BRONZE, FREEZE PROOF	ZURN	Z-1320-6					3/4"					WITH VACUUM BREAKER.
HB-2	HOSE BIBB, YARD HYDRANT, FREEZE PROOF	ZURN	Z-1395					3/4"					WITH VACUUM BREAKER.

FINISH FLOOR CLEANOUT

FLUSH GRADE CLEANOUT

Scott C. Woods and Associates

Scylindrical Engineers

112 Lone Wolf Dr./Madison, Ms 39110
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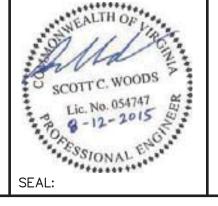
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PLUMBING SCHEDULES

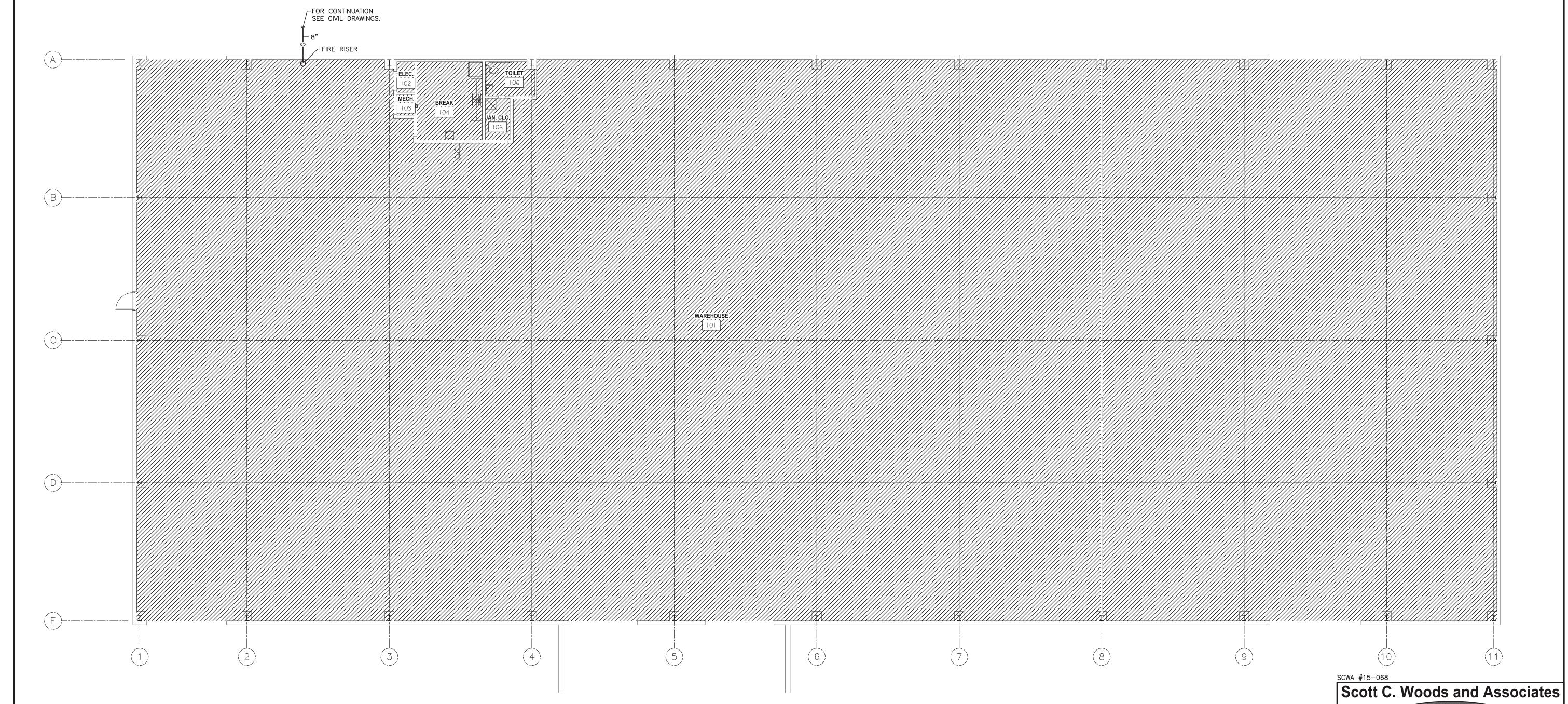
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FIRE PROTECTION LEGEND

CMSA CLASS I AND II FOR PALLETIZED STORAGE

GENERAL FIRE PROTECTION NOTES

- 1. ALL SYSTEMS AND EQUIPMENT SHALL STRICTLY COMPLY WITH NFPA 13 AND ALL LOCAL CODES.
- 2. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER AND ARCHITECT FOR APPROVAL BEFORE INSTALLING FIRE PROTECTION SYSTEM.
- 3. ALL FIRE PROTECTION WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS.
- 4. SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF CEILING TILES WHERE
- 5. SPRINKLER HEADS SHALL BE SEMI-RECESSED TYPE IN SPACES WITH CEILINGS. SPACES WITHOUT CEILINGS SHALL HAVE UPRIGHT HEADS.



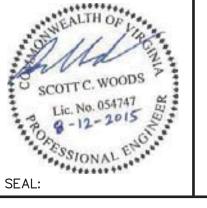
WAREHOUSE FLOOR PLAN/FIRE PROTECTION

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

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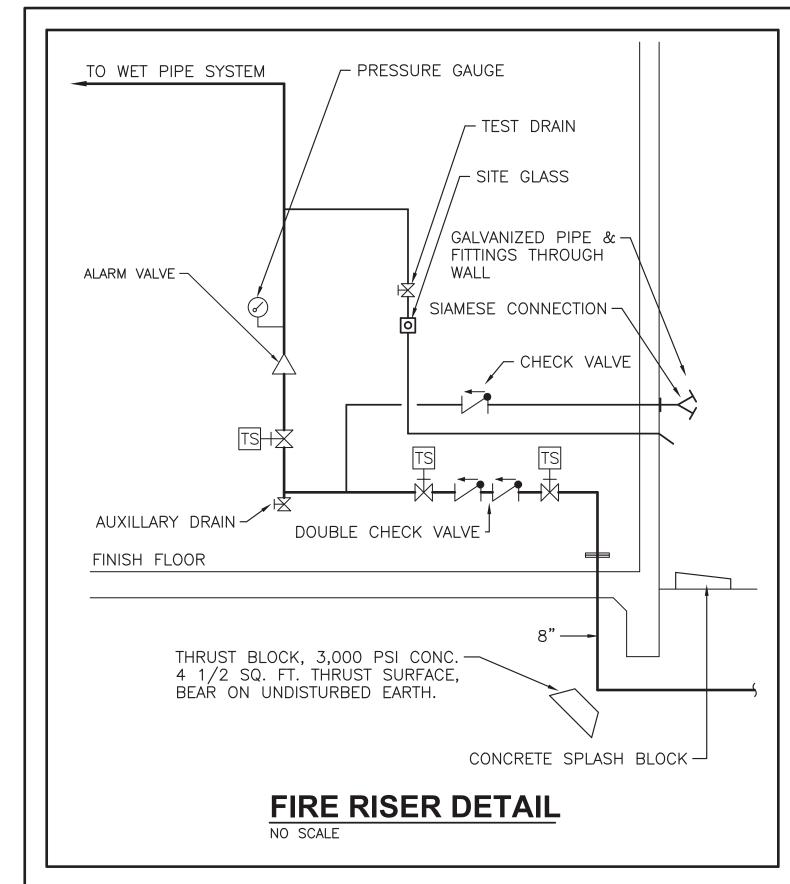


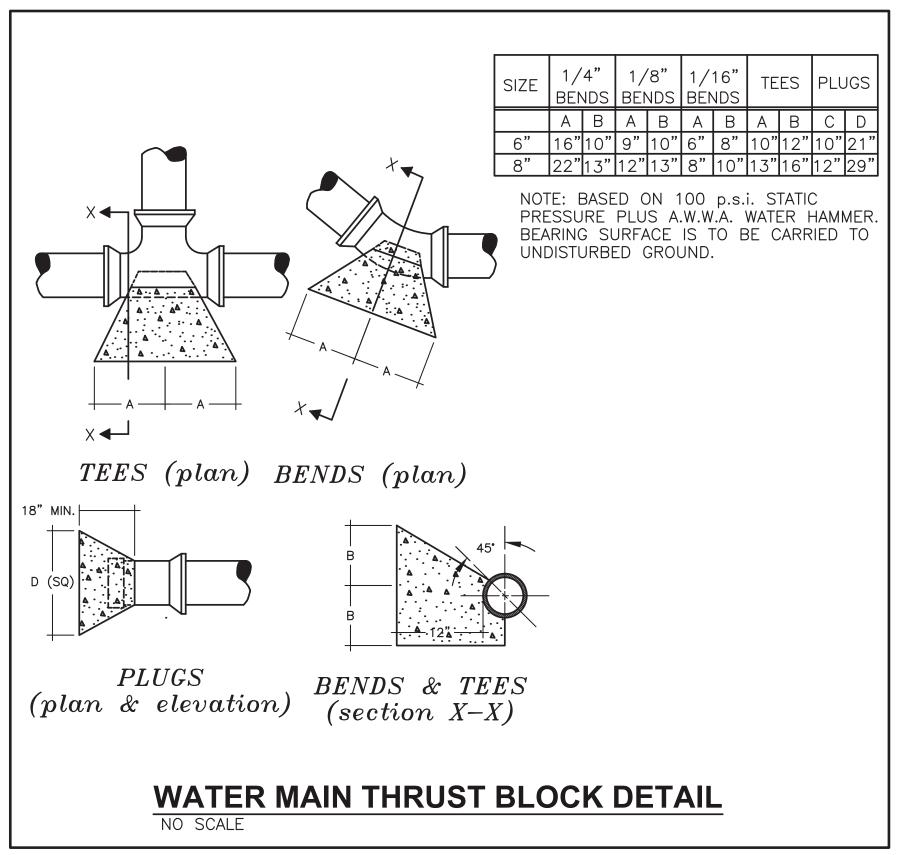


WAREHOUSE FLOOR
PLAN/FIRE
PROTECTION

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WORKING NUMBER: DRAWING NUMBER: FP-1





Scott C. Woods and Associates

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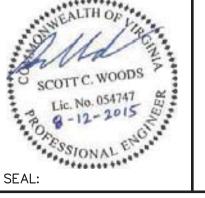
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FIRE PROTECTION DETAILS

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