RECEIVED JUN 2 2015

IREDELL COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION

Paid $500.00 (5-13-14) #202502

Application for IMPROVEMENT PERMIT , AUTHORIZATION TO CONSTRUCT, or EXISTING SYSTEM INSPECTION

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ___ Improvement Permit X Authorization To Construct ___ BOTH ___ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application

The following optional attachments may also be submitted: ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet

Place check ( ) beside whichever is submitted if applicable ___ Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
Richard Guilt	800 McKendree Rd	704-660-1465	Cell 704-651-8613
Owner Name	**Mailing Address**	**Home Phone #**	**Alternate Phone #**
MAG Vehicle Storage	800 McKendree Rd	704-660-1465	704-651-8613

4. Property Information:

Street Address	Subdivision Name	Section/Phase and Lot Number
112 Fast Lane	Brawley Rd Business Park	Lot 3B

Driving Directions: Brawley School Rd TO Stutts Rd - Turn Left, go about 200' Ft and turn right on Fast Lane and site is on 500' Ft on right side of Street

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

( ) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System
( ) Other ___

Maximum Number of Bedrooms ___
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
(X) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:

Type of Business	Self Storage Unit
Square Footage of Building	11,400 SF
Maximum Number of Employees	0
Maximum Number of Seats	0

9 Restrooms @ 25SF/Restroom = 225SF

6. Proposed Water Supply:

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

7. Desired Septic System Type: *(You may rank in order of preference, if any)*

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (X) Other Accepted ( ) No Preference

8. Please Answer The Following To The Best of Your Ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: Richard Guilt - Manager — MAY 7 2015

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — DATE

IREDELL COUNTY HEATLH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!*

Place an (X) beside each item as you complete the site plan:

- X — **Property Line measurements are clearly identified…**
- X — **All proposed structures are indicated…**
- X — ***SHOW: proposed house or business footprint, wells, water lines, patios, poo and decks, and any other item that will occupy space on the site***
- X — **Front and side setbacks from property line…**
- X — **Preferred driveway location and configuration, preferred well location…**
- X — **Area you prefer your septic system to be placed…**
- X — **North arrow, or other sufficient indicator of direction…**

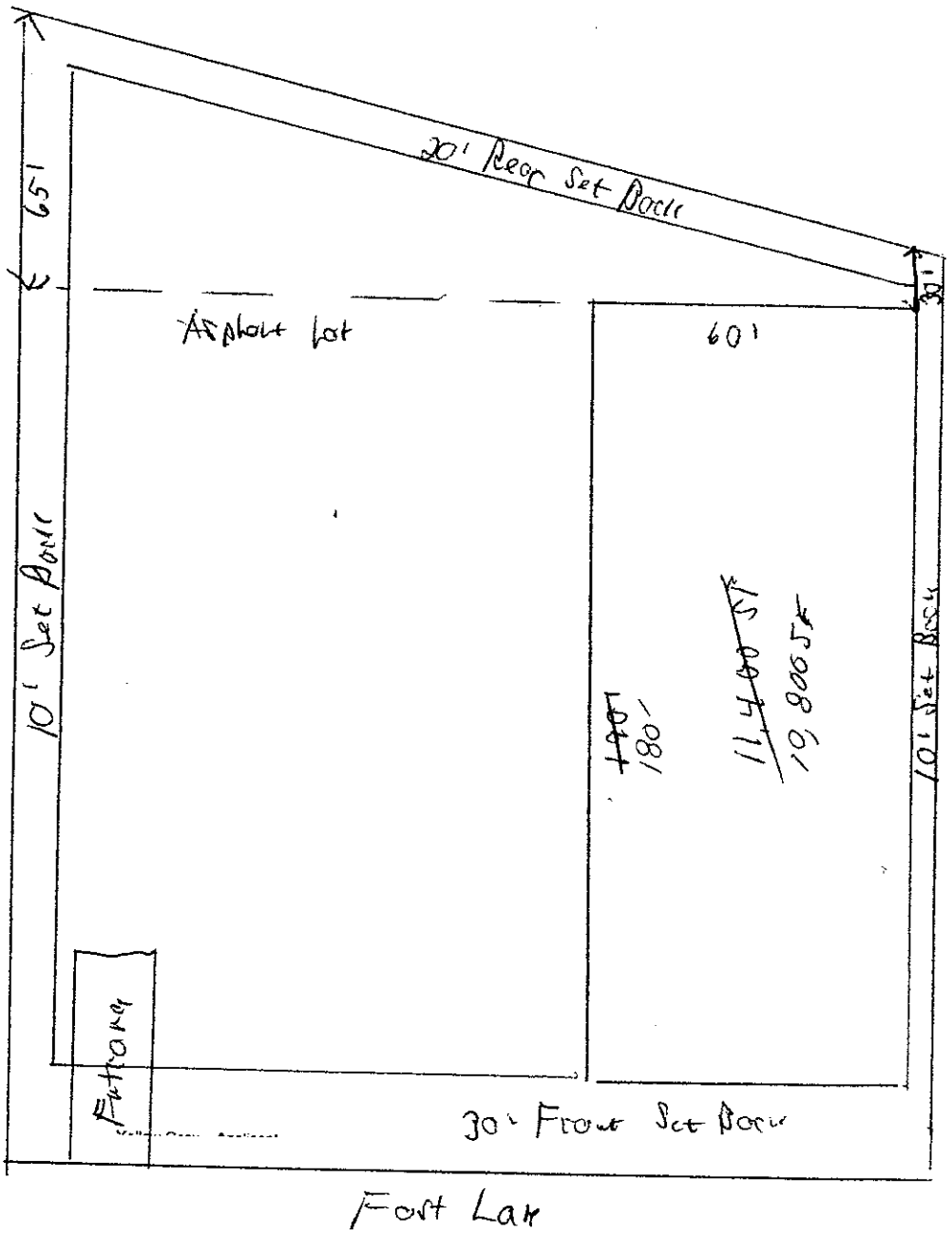
Circle N/A on the following if appropriate:

- ____ **Location of septic systems and wells within 100' of your property…** N/A
- ____ **Location of easements and rights of ways on your property…** (N/A)
- ____ **Location of any designated wetlands on the property…** N/A

Signature: Rahul Khatri - manager
REQUIRED **property owner or owner's legal representative signature.**

May 7, 2014
DATE

USE THIS SPACE TO DRAW YOUR SITE PLAN



MAG INDOOR VEHICLE STORAGE LLC

UPFITS
112 FAST LANE
MOORESVILLE, NORTH CAROLINA 28117

2006 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1- AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: MAG INDOOR VEHICLE STORAGE LLC

Address: 112 FAST LANE MOORESVILLE, NC 28117

Proposed Use: VEHICLE STORAGE

Owner or Authorized Agent: RICHARD GWILT Phone # 704-651-8113 Email RGWILT@MF.COM

Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City MOORESVILLE ☐ County IREDELL ☐ State NC

PROJECT SUMMARY

Building description: new building, concrete block exterior , prewn/pressed wood roof trusses

Scope of work details: (if phased construction, please see plan submittal guidelines)
SHELL ONLY

Code Compliance Summary: SEE CODE REVIEW C-1

LEAD DESIGN PROFESSIONAL: MARY ANN GWILT AIA

DESIGN	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	GWILT ARCHITECTURE PLLC	MARY ANN GWILT	9525	(704) 660-1465
Civil	DOWELL AND ASSOCIATES	LEE DOWELL	17327	(704) 554-7555
Electrical	TODD CAREY AND ASSOC.	TODD CAREY	09079	(704) 554-9824
FIELDING CHIEFLY				( )
Plumbing	TODD CAREY AND ASSOC.	TODD CAREY	09079	(704) 554-9824
Mechanical	TODD CAREY AND ASSOC.	TODD CAREY	09079	(704) 554-9824
Sprinkler -Standpipe				( )
Structural				( )
Fire/Alarm Mods				( )

Building Code ☒ 2012 North Carolina State Building Code (NCSBC)
☐ 2009 NC Mehab Code ☐ 2012 Chapter 34 (attach summary)
☐ 1968 Existing Building Code Vol II

New Building ☐ New Building ☒ Shell Building
☐ First time interior completion (upfit)
☐ Addition

BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☐ II-B ☐ III-B ☐ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D ☐ NFPA 130-07
Standpipes: ☒ No ☐ Yes NFPA 14 Class: ☐ I ☐ II ☐ III Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area ☒ No ☐ Yes
Building Height: 28' Feet 1 Number of Stories High Wave ☒ No ☐ Yes
Basements: ☒ No ☐ Yes
Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	TOTAL
THIS SUBMITTAL			
2nd Floor			
1st Floor	10,800	10,800	
TOTAL	10,800	10,800	

ALLOWABLE AREA/OCCUPANCY

Primary Occupancy ☐ Assembly 303 ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☐ Business 304 ☐ Educational 305 ☐ Factory 306 ☐ F-1 Moderate ☐ F-2 Low
☐ High-Hazard 307 ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
☐ Institutional 308 ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 Day Care
☐ Use Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ Mercantile 309 ☐ Residential 310 ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ Storage 311 ☒ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Utility and Miscellaneous 312 ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

Secondary Occupancy

Special Uses: ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427

Special Occupancy ☐ 500.2 ☐ 503.3 ☐ 508.4 ☐ 503.5 ☐ 509.8 ☐ 503.7 ☐ 509.8 ☐ 503.9

Incidental Uses (Table 508.2.5)

Mixed Occupancy ☐ No ☐ Yes Separation _____ Hr Exception: _____
☐ Incidental Use Separation (508.2.5.3) ☐ Accessory Occupancy (508.2)
This separation is not applied as a Non- Separated Use (see exceptions)
☐ Non-Separated Mixed Occupancy (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, or combination thereof, shall apply to the entire building.
☐ Separated Mixed Occupancy (508.4) — See below for area calculations:
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. (506.4.2)

Actual Area of Occupancy A _____ + Actual Area of Occupancy B _____ ≤ 1
Allowable Area of Occupancy A Allowable Area of Occupancy B

STORY NO	OCCUPANCY PER USE	(a) BLDG AREA PER STORY (ACTUAL)	(b) TABLE 503* AREA FOR NS BUILDING	(b) AREA FOR SPRINKLER INCREASE ‡	(c) ALLOWABLE AREA (a + b)	(d) ACTUAL AREA OF OCCUPANCY
FIRST	STORAGE	10,800	9000	9000	18,000	10,800

* Open space area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase I_f = 100 [F/P - 0.25] = _____ % W/30 = _____ (%)
‡ The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I_s = 2
b. Single story building I_s = 3
† Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (307.3), A-3 (307.6); Group A motion picture (307.9); covered mall buildings (402.3); and H-2 aircraft paint hangars (507.8).
‡ Maximum Building Area = total number of stories in the building n E, but not greater than 3 ‡ (506.4.1).
* The maximum area of a single-use open parking garage shall be permitted to comply with Table 406.3.5. The maximum area of parking control towers must comply with Table 412.2.1.

ALLOWABLE HEIGHT

	ALLOWED (Table 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type V-B		Type V-B	503
Building Height in Feet	Feet 40'	Feet = H + 20' = ----	Feet 28'-0"	----
Building Height in Stories	Stories ----	Stories + 1 = ----	Stories 1	----

FIRE PROTECTION REQUIREMENTS (Table 601&602)

Life Safety Plan Sheet #, if Provided C-1 code notes

Building Element	Fire Resistance Rating (hrs)	Min. %	Exception* Reduced Rating (hrs)	Req'd. # Hour	Shown # Hours Provided	Notes & Fire Ratings Penetrations	Notes & Fire Ratings Joints
Structural Frame, including columns, girders, trusses							
Bearing Walls: Exterior							
North	> 30	0					
East	> 30	0					
West	> 30	0					
South	> 30	0					
Interior		0					
Nonbearing Walls and partitions: Exterior (1968)							
North		0					
East		0					
West		0					
South		0					
Interior walls and partitions							
Floor Construction including supporting beams and joists		0					
Roof Construction including supporting beams and joists		0					
Shaft Enclosures — Exit 1020.1		0					
Shaft Enclosures — Other 1020.1		0					
Corridor Separation 1018.1		0					
Occupancy Separation 508.4		0					
Parking/Mix Use Separation 302.6		0					
FIRE BARRIER		0					
Horizontal Separation 5409.3		0					
Incidental Use Separation 508.2.5		0					

* Indicate % of reduction allowed (based on % of building perimeter as fronting a public way or open space having a minimum 20 feet wide) ‡ Indicate % of sprinkler increase allowed (506.3) † Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

(NEW SECTION FOR ADDITIONS, NEW CONSTRUCTION AND CHANGE OF USE)

Allowable openings per 1705.8 _____

30.00 GREATER -- NO LIMIT

WALL LEGENDS

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS
CHECK IF THE FOLLOWING ARE PRESENT AND INDICATED BY A WALL LEGEND ON ALL PLANS
☐ Fire Walls 706 ☐ Fire Barriers 707 ☐ Shaft Enclosure 708 ☐ Fire Partitions 708
☐ Smoke Barriers 710 ☐ Smoke Partitions 711

LIFE SAFETY SYSTEM REQUIREMENTS

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS

Emergency Lighting 1008	☐ No	☒ Yes	
Exit Signs 1011	☐ No	☒ Yes	
Fire Alarms 1007, NFPA 72-07	☐ No	☒ Yes	
Smoke Detection Systems 907	☒ No	☐ Yes	☐ PARTIAL
Panic Hardware 1008.1.10	☒ No	☐ Yes	
Life safety systems generation 2702.2	☒ No	☐ Yes	

EXIT REQUIREMENTS

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS
NUMBER AND ARRANGEMENT OF EXITS

FLOOR / ROOM OR SPACE DESIGNATION	OCCUPANCY †	OCCUPANT LOAD SHOWN ON PLANS	TRAVEL DISTANCE: ALLOWABLE TRAVEL DISTANCE (Table 1016.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	ARRANGEMENT MEANS OF EGRESS: EXIT SEPARATION (1014.2) RECEIVED BETWEEN EXITS	ACTUAL DISTANCE SHOWN ON PLANS
SUITE A/B	2	2	200'	75'-8"	25'	56'6"
SUITE C THRU H	B	6	STORAGE UNITS			
SUITE I	U	1	200'			

† Corridor dead ends (Section 1014.4)
‡ Single exits (Table 1021.2) Single Exits for with one means of egress (Section 1015.1)
§ Common Path of Travel (Section 1014.3)

OCCUPANT LOAD AND EXIT WIDTH

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS

USE SPACE SEE ROOM NUMBER	(a) AREA * SQ. FT.	(b) MAX. † PER OCCUPANT LOAD	(c) CALCULATED OCCUPANT LOAD (a) / (b)	(d) EGRESS WIDTH PER OCCUPANT (Table 1005.1)		(e) = (c) x (d) EGRESS WIDTH (Section 1005.1)		ACTUAL EGRESS WIDTH ON PLANS	
		(Table 1004.1.1)		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
SUITE A / B	2237	300	8		.2		2.4		35
OFFICE AREA	380	100	4						
SUITE C THRU I	1181	300	4		.2		0.8		35

* See Table 1004.1.1 to determine whether net or gross area is applicable.
† See definition "Area, Gross" and "Area, Net" (Section 1002)
‡ Minimum stairway width (Section 1014.2) ; corridor width (Section 1018.2); min. door width (Section 1008.1.1)
§ Minimum width of exit passageway (Section 1023.2)
* See section 1004.5 for converging exits
† The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required. (Section 1005.1)
‡ Assembly occupancies (Section 1028)
§ Spaces within occupancies or use groups shall be calculated independently. (Ex: kitchen, lounges, snack rooms, conference rooms,)

PLUMBING FIXTURE REQUIREMENTS TABLE 2902.1

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS

USE	WATER CLOSETS		URINALS	LAVATORIES		BATHTUB / SHOWER		DRINKING FOUNTAINS	
SPACE	MALE	FEMALE	MALE	MALE	FEMALE	MALE	FEMALE	MALE/UNISEX	FEMALE/UNISEX
SUITE A MFG WAITE	1	1		1	1				
Total Required									
Total Provided									

STRUCTURAL DESIGN

DESIGN LOADS: CLASSIFICATION OF BUILDING: CATEGORY/USE GROUP =1
Importance Factors: Wind (Iw) 1.0
Snow (Is) 1.0
Seismic (I) 1.0

Live Loads: Roof ____ 20 ____ psf
Mezzanine ____ ____ psf
Floor ____ 150 ____ psf

Snow Load: 12 psf

Wind Load: Basic Wind Speed ____ 90 ____ mph (ASCE-7-05)
Exposure Category ____ B ____
Mini Base Shears (for MWFRS) Vx = 27.2K Vy = 13.6K

SEISMIC DESIGN PARAMETERS
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) C
Detailed Response Acceleration Ss = 0.282 S1 = 0.139
Site Classification D
Basic structural system (check one)
____ Bearing Wall ____ Dual w/Special Moment Frame
__X__ Building Frame ____ Dual w/Intermediate R/C or Special Steel
____ Moment Frame ____ Inverted Pendulum
Seismic base shear V_x = 27.2 V_y = 13.5
Analysis Procedure ____Simplified ____Equivalent Lateral Force ____Modal
Seismic Use Group I
LATERAL DESIGN CONTROL: Earthquake ____ Wind __X__
SEISMIC STRUCTURAL SYSTEMS
RESPONSE MODIFICATION FACTOR: Rx = 3 Ry = 3
DEFLECTION AMPLIFICATION FACTOR: Cdx = 3 Cdy = 3
SEISMIC BASE SHEAR: V_x = 17.8 V_y = 15.2
SOIL BEARING CAPACITIES
Field test (provide copy of test report) _____ psf
Presumptive Load Bearing Capacity 3000 psf
Pile size, type, and capacity

SCHEDULE OF SPECIAL INSPECTION SERVICES

☒ No Special Inspections required for this project ☐ Special Inspections required

ACCESSIBLE PARKING

USE OR PARKING AREA	TOTAL # OF PARKING SPACES PROVIDED		# OF ACCESSIBLE SPACES PROVIDED		TOTAL #
	REQUIRED	PROVIDED	REGULAR SPACE # ADDRESS SIGN	VAN SPACES SIGN # ADDRESS SIGN	ACCESSIBLE PROVIDED
SEE SITE PLAN					

SPECIAL APPROVALS

Special approval: (Local jurisdiction, Department of Insurance, OSC, DPI, DFS, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget or allowable annual energy cost budget.

THERMAL ENVELOPE CLIMATE ZONE 4A
Method of Compliance SEE COMCHECK ON SHEET A-1
☐ Prescriptive ☒ Performance ☐ Energy Cost Budget

Roof/ceiling Assembly (each assembly)
Description of assembly TPO, ENGINEERS WOOD TRUSSES/ ASPHALT SHINGLES
U-Value of total assembly N/A
R-Value of Insulation N/A
Skylights in each assembly N/A
Solar gain coefficient of skylights N/A
Total square footage of skylights in each assembly N/A

Exterior Walls (each assembly) 8" SPLIT FACED BLOCK- PARTIALLY GROUTED--CELLS INSULATED MID DEGREE
Description of assembly
U-Value of total assembly 0.077
R-Value of Insulation 8.5 METAL FRAME W/THERMAL BRKNG, DOUBLE PANE GLASS
Openings (windows or doors with glazing)
U-Value of assembly 0.500
Shading .20
projection factor
Low E. Required in optimize ENTRANCE .35(SW)
Door R-Value 0.500

Walls adjacent to unconditioned space (each assembly)
Description of assembly 2X4 STUD FRAMING W/R-19 INSULATION 1/2" DRYWALL INSIDE SIDE
U-Value of total assembly
R-Value of Insulation
Openings (windows or doors with glazing)
U-Value of assembly
Low e required, if applicable
Door R-Value

Walls below grade (each assembly)
Description of assembly
U-Value of total assembly
R-Value of Insulation

Floors over unconditioned space (each assembly)
Description of assembly
U-Value of total assembly
R-Value of Insulation

Floors slab on grade
Description of assembly UNHEATED 6" CONC. SLAB ON GRADE
U-Value of total assembly 0.67
R-Value of Insulation R-10 2' DP
Horizontal/vertical requirement N/A
slab heated NO

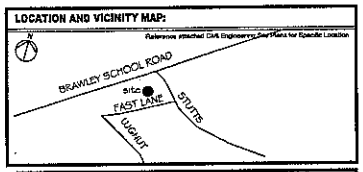
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance
☐ Prescriptive ☐ Performance ☐ Energy Cost Budget
SEE ELECTRICAL DRAWINGS

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SOTHERS, SYSTEMS AND EQUIPMENT
Method of Compliance
☐ Prescriptive ☐ Energy Cost Budget
SEE MECHANICAL DRAWINGS

LOCATION AND VICINITY MAP:



INDEX OF DRAWINGS:

MARK	DESCRIPTION
CODE	APPENDIX B CODE SUMMARY, VICINITY MAP, INDEX OF DRAWINGS GENERAL NOTES, UL ASSEMBLIES, AND DETAILS
SITE	SITE PLAN
	EROSION CONTROL PLAN
A-1	ARCHITECTURAL OVERALL BUILDING FLOOR PLAN
A-2	BUILDING SECTION CUT
A-3	TOILET DETAILS
P-1	PLUMBING MECHANICAL AND ELECTRICAL
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL
M-1	MECHANICAL PLAN
P-1	PLUMBING PLAN

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL FOLLOW ALL SAFETY CRITERIA AS ESTABLISHED BY OSHA, ACCEPTABLE TRADE, AND TRADE PRACTICES, NOT ANY USE OF SUBSTANDARD OR UNSAFE EQUIPMENT OR OTHER HAZARDS RESULTING TO PROTECT AND INSURE SAFETY OF ALL CONSTRUCTION PERSONNEL, PUBLIC, CONTRACTOR SHALL INDEMNIFY OWNER AGAINST PAYMENT COMPENSATION.

2. SUBCONTRACTORS - CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO CONSTRUCTION AND FABRICATION OF ANY MATERIALS. ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER AND OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK, AND CLARIFICATIONS IS TO BE OBTAINED BEFORE PROCEEDING WITH RELATED WORK.

3. BUILDING CODES AND REGULATIONS - ALL WORK SHALL CONFORM TO ALL GOVERNING CODES AND REGULATIONS. CONTRACTOR SHALL FILE FOR, PAY FOR, AND OBTAIN ALL REQUIRED PERMITS TO PERFORM THE WORK. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TRADE AND THE MANUFACTURER'S DIRECTIONS OF SAME. CONTRACTOR SHALL OBTAIN ALL WITNESS AND FINAL INSPECTIONS AND CERTIFICATES OF OCCUPANCY AND/OR COMPLIANCE. ANY AND ALL CODES SHALL HOLD PRECEDENCE OVER THESE PLANS.

4. PROPANES - GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL ABIDE, PAY FOR AND MAINTAIN ANY CLAIMS REGARDING AND FUTURING WORK WITHIN THE LIMITED PROPERTIES. ALL OF THE PROPERTIES PROVIDED AND IN THE AREA AS SITE PER PLANS. CONTRACTOR SHALL NOT ENCROACH ANY WORK UPON ALL REQUIRED EASEMENTS AND KEEP OBTAINED AND COPIES COPIES OF PERMANENT RECORDS TO OWNER.

5. CERTIFICATE OF OCCUPANCY SHALL COVER ALL WORK PERFORMED BY CONTRACTOR AND SUBCONTRACTORS AND ALL MAJOR SUPPLIERS. GENERAL CONTRACTOR AND SUBCONTRACTOR(S) INCLUDE WARRANTY COVERAGES AND LIMITS OF LIABILITY.

6. WORKMEN'S COMPENSATION INSURANCE - IN ACCORDANCE WITH THE GOVERNING LAWS AND STATUTES, CONTRACTOR SHALL CARRY SUCH INSURANCE REQUIRED BY AND EMPLOYER BENEFITS, ETC. AS MAY BE REQUIRED BY THE CONTRACT AND AGREEMENT.

7. CERTIFICATES OF INSURANCE SHALL BE FURNISHED TO THE OWNER CERTIFICATES OF INSURANCE WHICH SHALL PROTECT SAID CONTRACTOR FROM CLAIMS

(1) UNDER WORKMENS COMPENSATION ACTS AND OTHER EMPLOYEE BENEFIT ACTS WITH LIMIT OF NOT LESS THAN $1,000,000.

(2) FOR DAMAGES BECAUSE OF BODILY INJURY.

(3) FOR DAMAGES TO PROPERTY WITH LIMITS OF $100,000 WHICH ARISE OUT OF OR RESULT FROM THE CONTRACTOR'S WORK UNDER THIS CONTRACT WHETHER SUCH WORK (INCLUDING OMISSIONS) IS PERFORMED BY HIMSELF OR STRICTLY OR INDIRECTLY EMPLOYED BY HIM AND INCLUDES SUCH INSURANCE AS IS IN THE FINAL ARTICLES OF THE CONTRACT BILL.

8. ALL CONDITIONS CONTAINED IN THE LATEST REVISION OF THE AIA (A) GENERAL CONDITIONS OF THE CONTRACT SHALL BE INCORPORATED INTO THESE SPECIFICATIONS AND SHALL BE ADHERED TO THE CONTRACT AS IF SPECIFICALLY WRITTEN.

9. LIEN LAWS AND MECHANICS AFFIDAVITS - CONTRACTOR SHALL FURNISH TO OWNER WITHIN 30 DAYS AFTER COMPLETION, FINAL WAIVERS OF LIEN FOR ALL WORK PERFORMED AND FINAL ALL SUBCONTRACTORS AND MATERIALMEN.

10. CERTIFICATE OF SUBSTANTIAL COMPLETION - CONTRACTOR SHALL PROVIDE OWNER WITH A COPY OF THE CERTIFICATE PRIOR TO TURNING SPACE OVER TO THE TENANT.

11. QUALITY ASSURANCE - ALL MATERIALS SPECIFIED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. ALL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE QUALITY OF THEIR WORK AND SHALL ENSURE THAT ALL WORK IS PERFORMED BY QUALIFIED WORKMEN. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF DEFECTIVE WITHOUT ANY ADDITIONAL EXPENSE FOR ANY AND ALL WORK DONE OR FURNISHED WHICH SHALL BECOME DEFECTIVE WITHIN TWELVE (12) MONTHS PERIOD. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE QUALITY OF WORK OF ALL SUBCONTRACTORS AND SUPPLIERS IN CONNECTION WITH SUCH REPLACEMENT AND ADJUSTMENT OR REPAIR OF ANY PART OF THE WORK, WHICH MAY BE DISCOVERED THEREBY.

12. ALL MANUFACTURERS OR SUPPLIERS AT TO MATERIALS OR WORKMANSHIP OR ON WITH RESPECT TO THE TENANT'S WORK SHALL BE CONTRACTOR OR SUBCONTRACTOR WHICH SHALL BE ASSIGNED TO THE BENEFIT OF THE OWNER AND SHALL BE SUBMITTED WITH AND ATTACHED TO THE WARRANTY OF ANY CONTRACTOR OR SUPPLIER OF MATERIALS.

13. FIRE EXTINGUISHERS - CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE EXTINGUISHERS REQUIRED. VERIFY WITH LOCAL FIRE DEPARTMENT AND AHJ JURISDICTION. CONTRACTOR SHALL DURING CONSTRUCTION PROVIDE FIRE EXTINGUISHERS THROUGHOUT THE SPACE AS A MINIMUM OF TYPE 2A10BC.

14. BARRIER REMOVAL - CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL DEBRIS FROM THE PROJECT OF ALL TRADES. ALSO ALL SURPLUS MATERIALS RESULTING FROM CONSTRUCTION AND RELATED ACTIVITIES. CONTRACTOR SHALL COORDINATE THE REMOVAL OF DEBRIS WITH THE OWNER'S SITE PERSONNEL AT THE FACILITY.

15. DRAWINGS - SCALE OF DRAWINGS FOR INFORMATION, UNLESS NOTED, DRAWINGS, DETAILS DOCUMENTS PLANS AND ELEVATIONS, A COPY OF THE LATEST SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT IN SITE AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY ERRORS OR DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND QUANTITIES OF QUALITY UNLESS OTHERWISE NOTED BY THE ARCHITECT. IN ADVANCE OF ORDERING OR FABRICATION OF MATERIALS. ANY DISCREPANCIES SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL NOT SCALE DRAWINGS BUT PROCEED WITH WORK UNTIL HE RECEIVES SPECIFIC INSTRUCTIONS IN WRITING.

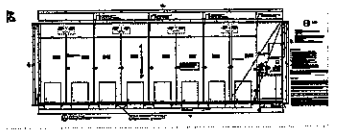
16. MISCELLANEOUS ITEMS - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AS WELL AS THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS. THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS, ORDINANCES AND REGULATIONS ARE DIRECTED TO THE ATTENTION OF CONSTRUCTION AND INSPECTION OF ANY WORK BY VARIOUS AUTHORITIES. CONTRACTOR SHALL TRANSLATE AS NECESSARY ALL CODE AND DEFINITION SHALL PROVIDE DETAILS SHALL WORK PERFORMED SHALL COMPLY WITH APPLICABLE REGULATIONS AND ORDINANCES AND SHALL BE A COMPLETE PACKAGE WITHIN NORMAL INDUSTRY STANDARDS.

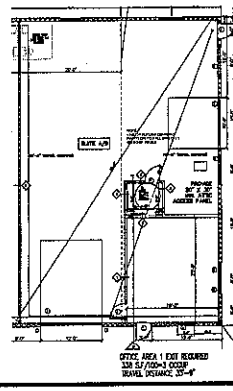
17. CONSTRUCTION DRAWINGS SHALL BE PREPARED, SEALED, AND SIGNED BY AN ARCHITECT LICENSED TO PRACTICE IN NORTH CAROLINA AND SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL BEFORE ANY WORK IS BEGUN. REVISIONS MADE DURING CONSTRUCTION SHALL BE PERFORMED BY THE ARCHITECT OF RECORD. CONTRACTOR SHALL NOT PERFORM CONSTRUCTION FROM ANY DRAWINGS OR SPECIFICATIONS THAT ARE NOT PROFESSIONALLY SEALED. ALL WORK PERFORMED BASED ON UNSEALED DRAWINGS OR SPECIFICATIONS IS AT THE CONTRACTOR'S RISK.

18. SUBMISSION ITEMS SHALL BE APPROVED BY THE BUILDING DEPARTMENT OF THE JURISDICTION HAVING LEGAL AUTHORITY PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBMITTAL OF ALL SHOP DRAWINGS, MATERIAL SAMPLES, CATALOG CUTS AND CERTIFICATES AS REQUIRED BY THE SPECIFICATIONS. SUBMITTALS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER IN A SUFFICIENT TIME TO ALLOW REVIEW, PROCUREMENT AND DELIVERY OF ALL MATERIALS WITHOUT DELAYING THE PROJECT COMPLETION. DATE OR PLANNED WORK. ANY SUBMITTALS NOT REVIEWED BY THE ARCHITECT SHALL BE RETURNED WITH THE NOTATION "REVISE AND RESUBMIT".

19. CONTRACTOR SHALL CLEAN SERVICE AND CHALK FOR FINISH OPERATION ALL FIXED INSULATION ON THE DRAWINGS OR "EXISTING" AND/OR "RELOCATED".

CODE REVIEW





10,800 TOTAL BUILDING EXTERIOR SQUARE FOOTAGE
NS CONSTRUCTION
NOT SPRINKLERED
TOTAL EXTERIOR SQUARE FOOTAGE SPACE A/B 2382
TOTAL INTERIOR SQUARE FOOTAGE SPACE A/B 2237
OFFICE AREA 380 S.F. ACCESSORY AREA
1 EXITS REQUIRED - 2 EXITS PROVIDED
2237 S.F./200=8 OCCUP.
DISTANCE BETWEEN DOORS 69'-11"/2=35'-6"
56'-8" DISTANCE BETWEEN DOORS
TOTAL EXTERIOR SQUARE FOOTAGE SPACES C THRU I
1368 S.F. EACH SPACE
TOTAL INTERIOR SQUARE FOOTAGE SPACES C THRU I
1181 S.F. EACH SPACE
UNIT PERMIT
SEE PLUMBING, MECHANICAL AND ELECTRICAL

IF MUTUAL INDEMNIFICATION AND AGREED THAT THE BASIC SERVICES OF MARY ANN GWILT UNDER THIS AGREEMENT DOES NOT INCLUDE FULL-TIME CONSTRUCTION OBSERVATION OR REVIEW OF THE CONTRACTOR'S PERFORMANCE, BOTH THE OWNER AND CONTRACTOR ACKNOWLEDGE THE IMPORTANCE OF SUCH SERVICES, AND SHOULD EITHER THE OWNER OR CONTRACTOR HAVE SUCH SERVICES PERFORMED BY A PARTY OTHER THAN MARY ANN GWILT, THEN BOTH THE OWNER AND CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR INTERPRETATION OF OUR CONTRACT DOCUMENTS AND FOR CONSTRUCTION OBSERVATION, AND SHALL WAIVE ANY CLAIM AGAINST MARY ANN GWILT - ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THEREWITH.
IN ADDITION, IF MARY ANN GWILT - ARCHITECT DOES NOT PERFORM FULL-TIME CONSTRUCTION OBSERVATION, BOTH THE OWNER AND CONTRACTOR SHALL TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD MARY ANN GWILT - AND ITS EMPLOYEES AND CONSULTANTS AGAINST ANY AND ALL CLAIMS, DAMAGES, LIABILITIES OR COSTS, CLAIM OR COST, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS OF DEFENSE, ARISING OR RESULTING FROM THE PERFORMANCE OF SUCH SERVICES BY OTHER PERSONS OR ENTITIES AND FROM ANY AND ALL CLAIMS ARISING FROM MODIFICATIONS, ENLARGEMENTS, CHANGES, ADDITIONS, OR OMISSIONS MADE TO THE CONSTRUCTION DOCUMENTS BY, OR AUTHORIZED BY, ANYONE OTHER THAN MARY ANN GWILT - ARCHITECT.

GWILT ARCHITECTURE PLLC
MARY ANN GWILT A.I.A.
800 MCKENDREE ROAD
Mooresville, North Carolina 28117
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7/24/2015

CODE REVIEW FOR MAG BUILDING UPFITS

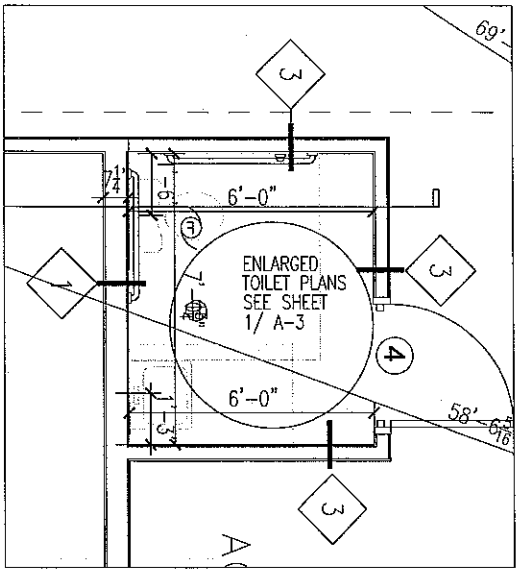
project description:
MAG INDOOR VEHICLE STORAGE LLC
112 FAST LANE
MOORESVILLE, N.C. 28117

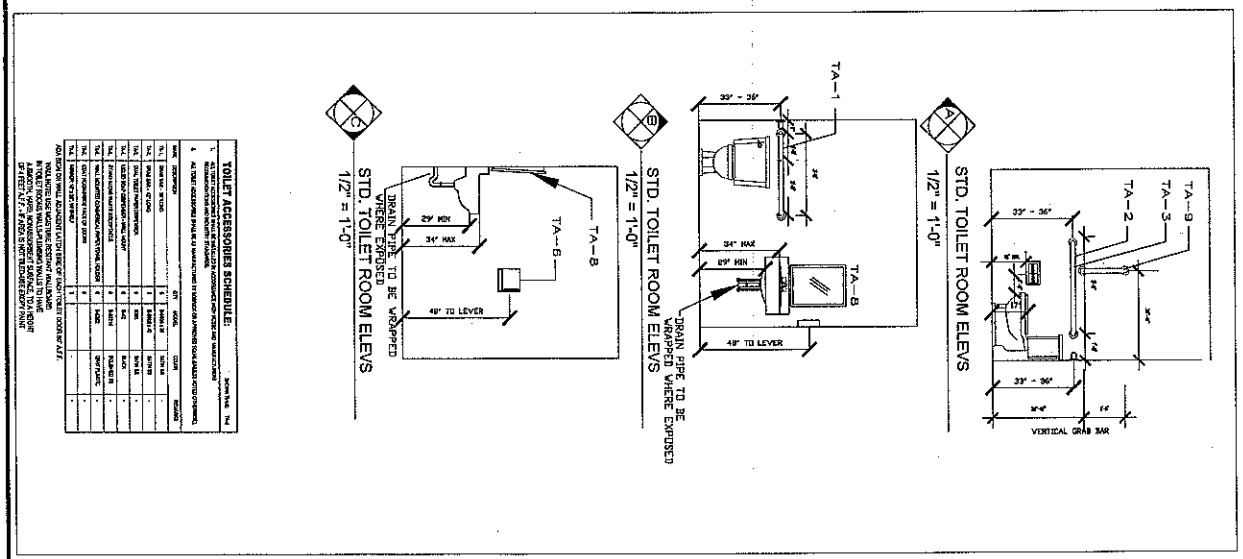
client description:
RICHARD GWILT
800 MCKENDREE ROAD
MOORESVILLE, N.C. 28117
704-651-8113

FOR CONSTRUCTION

SHEET NO. C-1

NUMBER	DESCRIPTION	DATE
1	PERMIT	7/24/2015
2	PERMIT	
3		





A-3

Mary Ann Gwilt
ISSUED BY
Mary Ann Gwilt
7/24/15
DATE

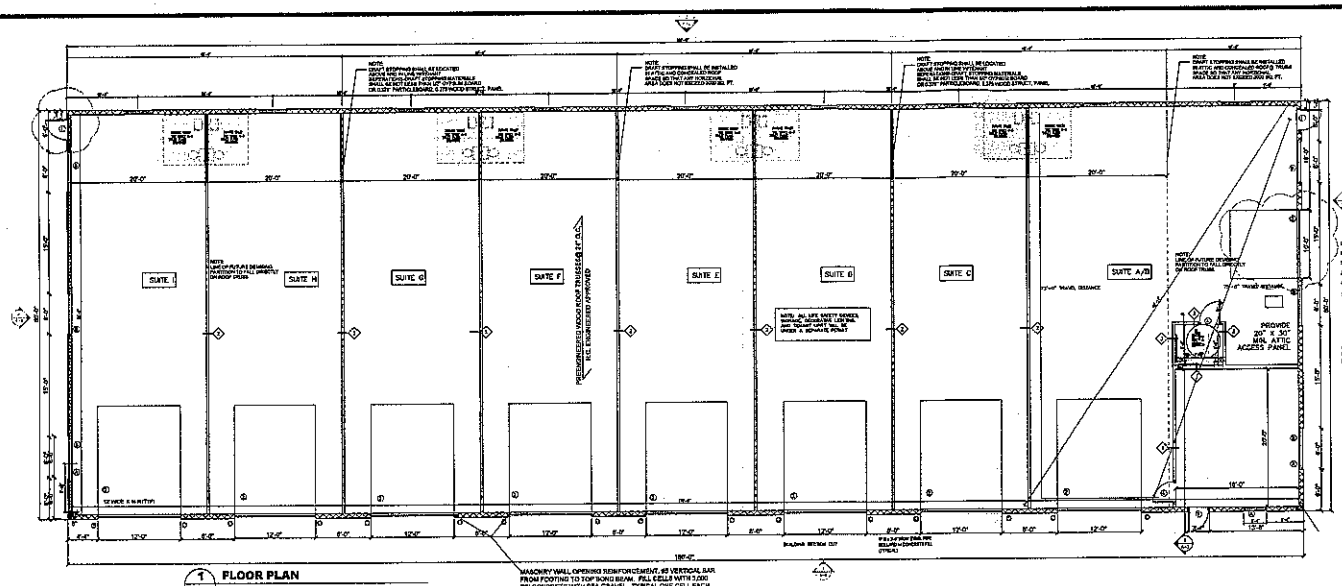
FOR CONSTRUCTION

TOILET DETAILS

project description:
MAG INDOOR VEHICLE STORAGE LLC
112 FAST LANE
Mooresville (Iredell Co.); North Carolina 28117

client description:
RICHARD GWILT
800 MCKENDREE ROAD
704-651-8613

GWILT ARCHITECTURE PLLC
MARY ANN GWILT A.I.A.
800 MCKENDREE ROAD
Mooresville, North Carolina 28117
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1 / A-1 **FLOOR PLAN**
SCALE 1/8" = 1'-0"

MASONRY WALL OPENING REINFORCEMENT, #3 VERTICAL BAR FROM FOOTING TO TOP BOND BEAM. FILL CELLS WITH 3,000 PSI CONCRETE WITH PEA GRAVEL. TYPICAL ONE CELL EACH SIDE OF EACH MASONRY OPENING -SEE STRUCT. DWG

EXISTING BUILDING NOTES

MASONRY WALLS

1. BLOCK WALLS TO BE 8" x 8" x 16" SPLIT FACED CONCRETE BLOCK W/VERTICLE EXPANSION JOINT EVERY 96' OF CONTINUOUS WALL - CELLS INSULATED
2. CORNERS SHALL HAVE REINFORCING #5 BAR IN 3 CELLS EACH WAY FROM FOOTING TO BOND BEAM AND SHALL BE FILLED WITH 3000 PSI PEA ROCK CONCRETE
3. MASONRY WALL OPENING REINFORCEMENT TO BE 1 #5 BAR FROM FOOTING TO BOND BEAM ON EACH SIDE OF THE OPENING AND THE CELLS SHALL BE FILLED WITH 3000 PSI PEA ROCK CONCRETE

ROOF TRUSSES

1. PRE-MANUFACTURED ENGINEERED WOOD TRUSSES 24" O.C. WITH 6/12 SLOPE. ENGINEERED STAMPED DRAWINGS ARE REQUIRED

ROOFING

1. 90 LB. STARTER COURSE WITH BASE SHEET TO BE 30 LB FELT
2. ASPHALT SHINGLES TO BE 30 YEAR ARCHITECTURAL DIMENSIONAL & MILDEW RESISTANT, COLOR TO BE SELECTED BY OWNER.
3. PROVIDE FULL RIDGE VENT.
4. ROOF INSULATION SHALL BE R-19- INSTALLED AT UPFIT

SOFFITS

1. PROVIDE FULL VENTED VINYL SOFFITS A SAMPLE OF MATERIAL AND COLORS SHALL BE SUBMITTED PRIOR TO INSTALLATION & THE COLOR TO BE SELECTED BY OWNER

GUTTERS

1. GUTTERS SHALL BE CONTINUOUS AROUND THE BUILDING AND DOWNSPOUTS SHALL HAVE CONCRETE SPLASH BLOCKS

OVERHEAD DOORS

1. LOW HEADROOM 24 GA. SECTIONAL PRE-FINISHED INSULATED STEEL WITH WEATHER SEALS, MANUALLY OPERATED.
2. SUPPLIER SHALL PROVIDE PRODUCT INFORMATION AND COLOR SAMPLES - COLOR TO BE SELECTED BY OWNER

PIPE BOLLARDS

1. PROVIDE 6" O STEEL PIPE BOLLARD FILLED WITH SOLID CONCRETE 3'-0" ABOVE GROUND EXPOSED

GLAZING

1. SEE OWNER FOR TEMPERED GLAZING IN OVERHEAD DOORS TEMPERED GLASS
2. FRAMES TO BE 2" X 4" ALUMINUM - COLOR TO BE SELECTED BY THE OWNER
3. 12420 EXTERIOR GLASS SHALL BE DOUBLE GLAZED TINTED WITH 2" X 4" ALUMINUM FRAMES - COLOR TO BE SELECTED BY THE OWNER.

COMcheck Software Version 4.0.0

Envelope Compliance Certificate

Project Information

Energy Code: 2012 IECC/IRC
Project Title: MAG BUILDING
Location: Mooresville, North Carolina
Climate Zone: 4A
Project Type: New Construction
Construction Site: 112 East Lane, Mooresville, NC, 28117
Owner/Agent:
Designer/Contractor: Wood Arts Studio, 800 McKendree Rd, Mooresville, NC, 28115

Building Area: 1 Warehouse - Nonresidential (3600)
Floor Area:

Envelope Assemblies

Assembly	Gross Area or Perimeter	Glazing % Opaque	Cont. R-Value	Framing Cavity R-Value	Assembly U-Factor
Roof 1	1800	0.0	0.0		0.032
Roof 2	1800	0.0	0.0		0.032
Window 1	40	---	---		0.300
Overhead Door 1	144	---	---		0.370
Wall 1	72	---	---		0.070
Wall 2	72	---	---		0.070
Door 1	40	---	---		0.500
Roof 1	1800	0.0	0.0		0.032
Overhead Door 1	144	---	---		0.370
Wall 1	72	---	---		0.070
Wall 2	72	---	---		0.070
Door 1	40	---	---		0.500
Roof 1	1800	0.0	0.0		0.032
Overhead Door 1	144	---	---		0.370
Wall 1	72	---	---		0.070
Wall 2	72	---	---		0.070
Door 1	40	---	---		0.500

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application.

Project Title: Mag Building
Data Filename: C:\Users\Mary Ann\Documents\Energy\COMcheck\Mag Building.cck
Report Date: 07/21/15
Page 1 of 9

ALUMINUM STOREFRONT WINDOW MEDIUM BRONZE ANODIZED THERMALLY BROKEN FRAME FIXED - 1" CLEAR INSULATED GLASS

ALUMINUM STOREFRONT WINDOW MEDIUM BRONZE ANODIZED THERMALLY BROKEN FRAME FIXED - 1" CLEAR INSULATED GLASS

PRE-FINISHED INSULATED STEEL HOLLOW METAL FRAME - PAINTED

GLASS FRONT HOLLOW METAL FRAME - PAINTED

INTERIOR DOOR MASONITE-METAL FRAME

PRE-FINISHED INSULATED STEEL OVERHEAD SECTIONAL DOOR

PRE-FINISHED INSULATED STEEL OVERHEAD SECTIONAL DOOR

DOOR SCHEDULE

DOOR			DOOR LEAF		DOOR FRAME		DOOR HARDWARE				
MARK	SIZE	TYPE	MATERIAL	FINISH	HEAD	JAMB	MATERIAL	FINISH	LOCK	MISC.	REMARKS
1	3'-0" x 7'-0"	STOREFRONT W/ GLASS	HOLLOW METAL	PAINT	7'	7'	HOLLOW METAL	PAINT GRADE	LOCKSET		
2	11'-0"(H) x 12'-0"W	STEEL, SECTIONAL OVERHEAD					HOLLOW METAL	PAINT			COUNTERBALANCE, INSULATED STEEL OVERHEAD SECTIONAL DOOR WITH WEATHER SEALS, MANUAL OPERATED AND CHAIN HOIST
3	10'-0"(H) x 10'-0"W	STEEL, SECTIONAL OVERHEAD					HOLLOW METAL	PAINT			COUNTERBALANCE, INSULATED STEEL OVERHEAD SECTIONAL DOOR WITH WEATHER SEALS, MANUAL OPERATED AND CHAIN HOIST
4	3'-0" x 7'-0"	MASONITE	HOLLOW METAL	PAINT	7'	7'	HOLLOW METAL	PAINT GRADE	LOCK		

NOTE: ALL DOOR HARDWARE TO BE MANDALAY LEVER TYPE & FINISH CHROME
BACK DOOR TO HAVE 1 LEVER, 1 PUSH
DOORS TO HAVE DEADBOLT

CODES: CONTACT WITH OWNER
SEE WRITTEN SPECIFICATIONS FOR HARDWARE DESCRIPTION
PAINTED DOOR FRAMES TO MATCH WALL COLOR W/ INTERIOR DOORS
DOORS TO HAVE SWEEP AND WEATHERSTRIPPING

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7/24/2015

FLOOR PLAN
project description:
MAG INDOOR VEHICLE STORAGE LLC
112 EAST LANE
Mooresville [Iredell Co.], North Carolina 28117

client description:
RICHARD GWILT
800 MCKENDREE ROAD
704-651-8613

FOR CONSTRUCTION

Mary Ann Gwilt
Richard Gwilt
7/24/15
DATE

A-1