

June 2, 2014

Project

Chassis tech/Airbagit - New Storage Warehouse
260 South Hibbert Road
Mesa, Arizona 85210
property owner contact:
Joe Morrow
480-464-1067
e: joe@airbagit.com

Design Review Board Submittal

PROJECT DESCRIPTION

Chassis Tech/Airbagit company is a manufacturer and supplier of miscellaneous auto parts. The company machines, joins and welds some parts. The company stores many parts on site, and ships worldwide.

Chassis tech intends to build a new storage building to house miscellaneous parts that are currently stored outside.

The existing office/storage/mfr building-1 has automatic fire sprinkler system (AFES). Buildings 4 and 5 are later additions to 1. The new building 6 will also have AFEA.

Buildings-2,3 on the same parcel ('attached parcels') north of building-1, are both currently used as storage. Building-3 is a metal building attached to building-2, a masonry building. Building-5 is a metal building, attached to building-1. There are open bays between the two buildings. The bays in building 1 have metal doors that can be converted to fire rated as required for area separation. the two buildings have an elevated finish floor, approx 4' above the adjacent grade.

The new building-6 will be cmu walls with wood panel roof structure and epdm roof finish (white). The finish floor will be raised 5" above adjacent grade.

The existing and new buildings shall be painted to match existing color. The perimeter wall at the east side of the site and the base of existing building-1 at exterior along streets, shall be painted 'canyon clay' (reddish brown).

June 2, 2014

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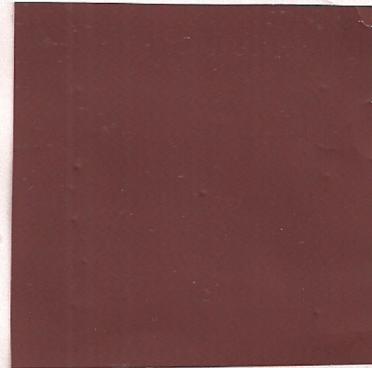
480-464-1067

e: joe@airbagit.com

Design Review Board Submittal - Building Colors

- 1 - Existing 'tan' buildings to be re-painted to match existing.
- 2 - New Storage Building -6 to be painting 'tan' to match existing buildings.
- 3 - New Storage Building
 - Walls: standard 8x8x16 CUM.
 - Roof: EPDM: white
 - Doors - 3' x 7': Hollow Metal, 'tan' same as existing.
 - Overhead doors: shiny metal -aluminum or steel
- 4 - Gates at existing Fence at East Property Line: rusted metal, to remain.
- 5 - Fence at east property line, masonry Building -2 and base of Building -1, to First Floor Finish Level, +4'-3" above adjacent grade:

Sherwin-Williams, 'Canyon Clay, SW6054m LRV 14%.



TWH LED LED Wall Luminaire



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

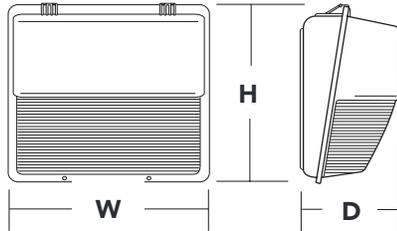
Specifications

Width: 16-1/4"
(41.3 cm)

Height: 15-3/4"
(40.0 cm)

Depth: 8"
(20.3 cm)

Weight: 28 lbs
(12.7 kg)



Introduction

The popular TWH luminaire is now available with LED technology. Cast in a traditional dayform, the TWH LED offers a classic appearance and is powered by advanced LEDs.

The new TWH LED luminaire is powerful yet energy efficient, capable of replacing up to a 400W metal halide luminaire while saving up to 77% in energy costs. Offering an expected service life of more than 20 years, the TWH LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

Ordering Information

EXAMPLE: TWH LED 30C 1000 50K T3M MVOLT DDBXD

TWH LED								
Series	Performance Package	Distribution	Voltage	Control Options	Other Options	Finish (required)		
TWH LED	LEDs 10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 30C 30 LEDs (one engine) Drive current 1000 1000 mA (1 A) Color temperature 50K 5000K (standard) 40K 4000K (optional)	T3M Type III Medium	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ²	Shipped installed DMG 0-10V dimming driver (no controls) PER NEMA twist-lock receptacle only (no controls) PE Photoelectric cell, button type ³	Shipped installed SF Single fuse (120, 277, 347V) ⁴ DF Double fuse (208, 240, 480V) ⁴ TP Tamper proof screws NOM NOM Certified SPD Separate surge protection ⁵ Shipped separately VG Vandal guard ⁶ WG Wire guard ⁶	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white		

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
TWH LED 10C 1000 50K T3M MVOLT DDBXD	TWH LED 10C 50K
TWH LED 20C 1000 50K T3M MVOLT DDBXD	TWH LED 20C 50K
TWH LED 30C 1000 50K T3M MVOLT DDBXD	TWH LED 30C 50K

Accessories

Ordered and shipped separately.

DSS124F 1.5 TJJE U	Photocell - SSL twist-lock (120-277V) ⁷
DLL347 1.5 CUL JU	Photocell - SSL twist-lock (347V) ⁷
DLL480 1.5 CUL JU	Photocell - SSL twist-lock (480V) ⁷
SC U	Shorting cap ⁷
TWHVG U	Vandal guard accessory ⁸
TWHWG U	Wire guard accessory ⁸

For more control options, visit [DIL](#) and [ROAM](#) online.

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
- Not available with 10C option.
- Must specify voltage; not available with MVOLT.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- See the electrical section on page 2 for more details.
- Also available as a separate accessory; see Accessories information at left.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
- Requires field modification (only when ordered as a separate accessory).



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000K, 70 CRI)					50K (5000K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	1000	10C1000--K	39 W	T3M	2445	0	3	2	63	2559	0	3	2	66
20C (20 LEDs)	1000	20C1000--K	72 W	T3M	4683	1	3	3	65	4910	1	3	3	68
30C (30 LEDs)	1000	30C1000--K	104 W	T3M	6391	1	3	3	61	6728	1	3	3	65

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **TWH LED 30C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

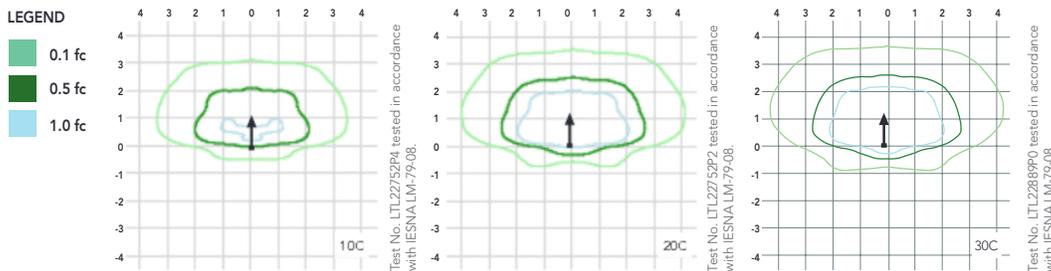
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
10C	1000	39 W	0.36	0.21	0.18	0.16	-	-
20C	1000	72 W	0.67	0.38	0.33	0.29	0.23	0.17
30C	1000	104 W	0.96	0.56	0.48	0.42	0.33	0.24

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's TWH LED homepage.

Isofootcandle plots for the TWH LED --- 1000 50K T3M. Distances are in units of mounting height (15').



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the TWH LED make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Die-cast aluminum housing has an impact-resistant, tempered glass lens that is fully gasketed. Modular design allows for ease of maintenance. The LED driver is mounted to the front casting to thermally isolate it from the light engine for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Protective glass lens covers the light engine's precision-molded proprietary acrylic lenses. Light engines are available in 5000K (65 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 or 30 high-efficiency LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 KV

surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a conulet tee. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.

LISTINGS

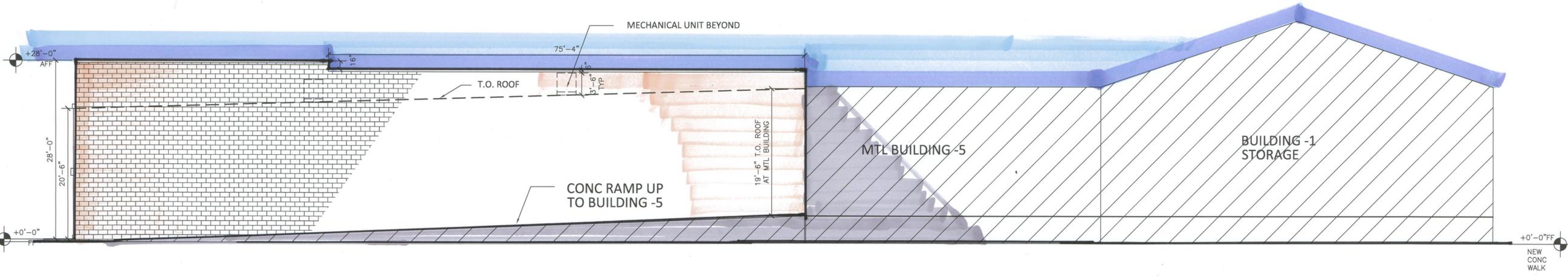
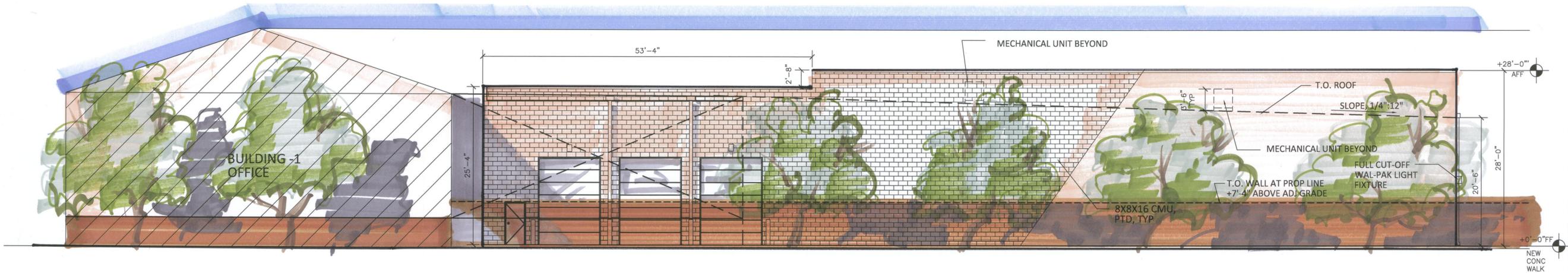
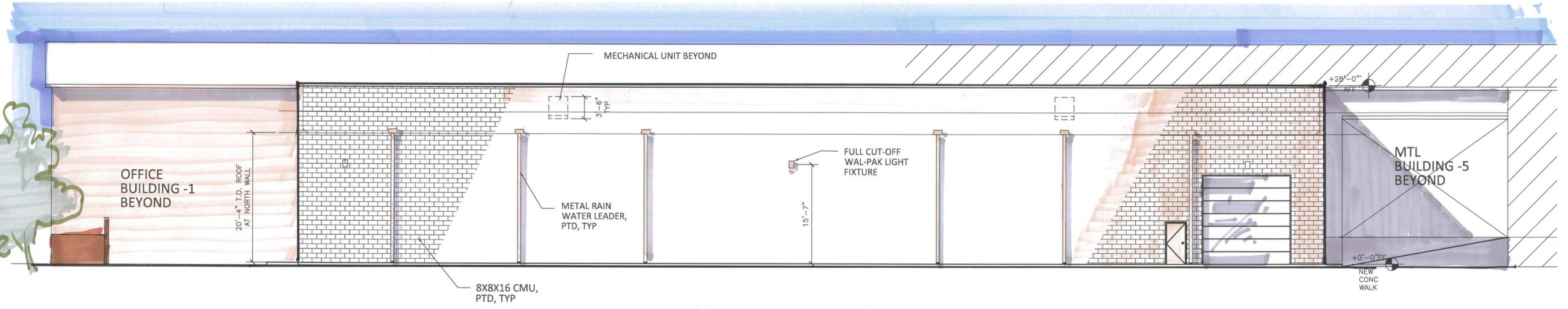
CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





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



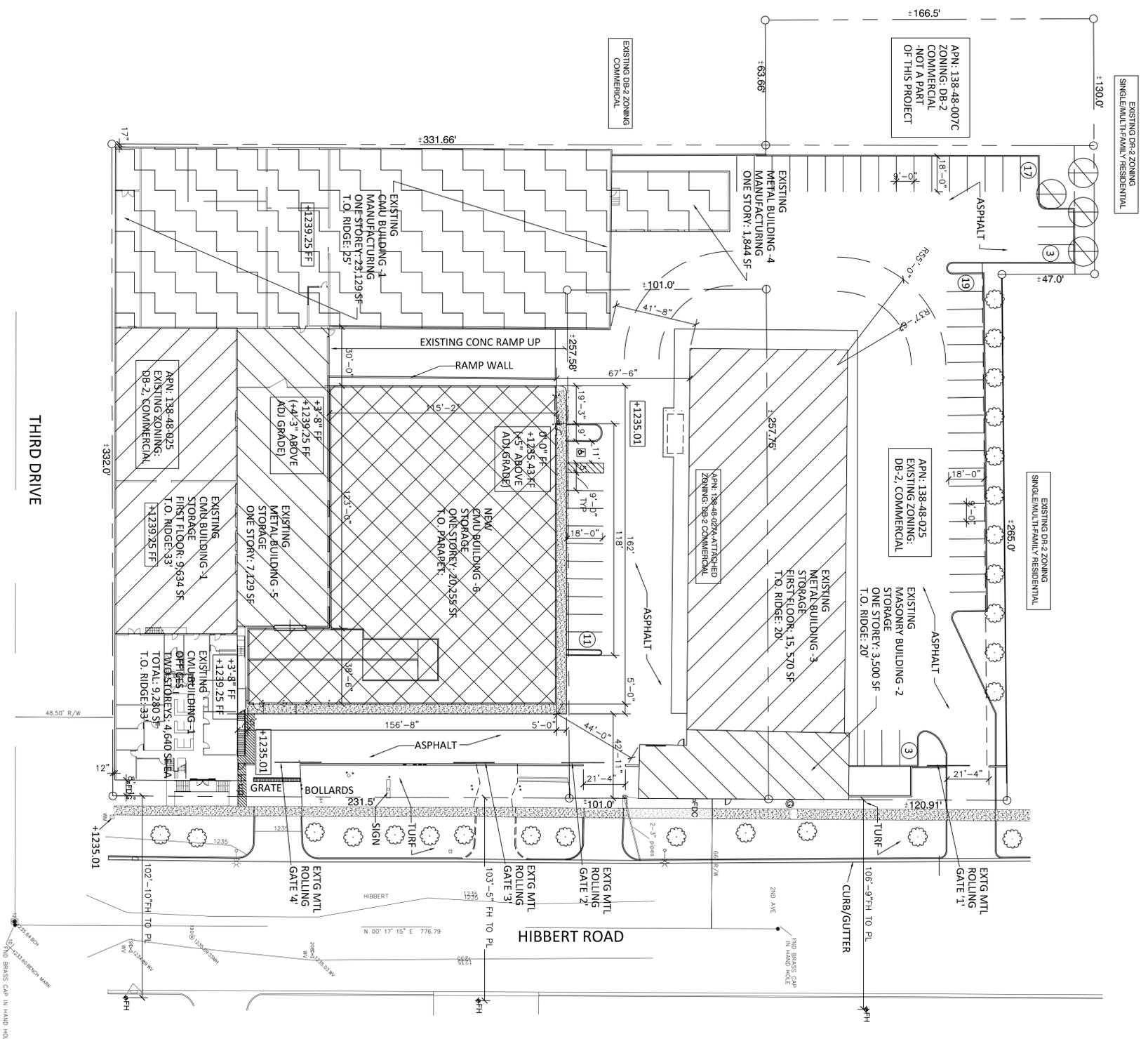
MARC Architecture
Mark Lymer, architect
324 1/2 South Wilson St
Tempe, Arizona 85281
Tel: 480-242-3461
Fax: 480-539-4101

PROJECT TITLE:
**CHASSIS TECH
NEW WAREHOUSE**
260 SOUTH HIBBERT ROAD
MESA, ARIZONA ###

PROJECT NAME: CHASSIS	DATE
FIRST SUBMITTAL: 5/29/2014	COMMENTS
	1

DRAWING NAME/NUMBER:
DESIGN
REVIEW
ELEVATIONS

A301



NEW SITE PLAN
SCALE: 1" = 30'

NOTE: DEMO GATE 3, ASSOCIATED CURBS ASPHALT BOLLARDS, INSTALL NEW CMU AT FENCE TO MATCH EXISTING, AS REQUIRED NEW SIDEWALK, CURB, TURF AND TREE.

THIRD DRIVE

HIBBERT ROAD

EXISTING DB-2 ZONING
SINGLE/FAMILY RESIDENTIAL

EXISTING DB-2 ZONING
SINGLE/FAMILY RESIDENTIAL

APN: 138-48-007C
ZONING: DB-2
COMMERCIAL
-NOT A PART
OF THIS PROJECT

APN: 138-48-025
EXISTING ZONING:
DB-2, COMMERCIAL

APN: 138-48-024 ATTACHED
ZONING: DB-2 COMMERCIAL

APN: 138-48-025
EXISTING ZONING:
DB-2, COMMERCIAL

GEN INFO, CONT'D

PARKING REQUIRED:
OFFICE: 9,280 SF/375 SF = 25 SPACES
MANUFACTURING: 24,973 SF/600 SF = 42 SPACES
TOTAL REQUIRED: 129

PARKING PROVIDED:
53 (1 ADA) +23 AT STREET FRONT =76 SPACES

ZONING: DB-2, DOWNTOWN OVERLAY
SETBACKS: NORTH: 10' /EAST: 15'
SOUTH: 0' /WEST: 0'
BUILDING HT: 2 STORIES, 25' MAX
FLOOD ZONE: 'X'

CITY OF MESA BUILDING CODES
2006 INTERNATIONAL BUILDING CODES SUITE
2006 IBC
2006 IFC
2006 IMC
2006 IPC
2005 NEC
2006 IFGC
2006 IEBC
2009 IECC
CITY OF MESA ZONING ORDINANCE

CONSTRUCTION TYPE:
EXISTING: III-B/V-8, FULLY SPRINKLERED
NEW: III-B, FULLY SPRINKLERED

PROJECT DESCRIPTION
CHASSIS TECH/AIRBAGIT COMPANY IS A MANUFACTURER AND SUPPLIER OF MISCELLANEOUS AUTO PARTS. THE COMPANY MANUFACTURES, JOINS AND WEILDS SOME PARTS. THE COMPANY STORES MANY PARTS ON SITE, AND SHIPS WORLDWIDE.

CHASSIS TECH INTENDS TO BUILD A NEW STORAGE BUILDING TO HOUSE MISCELLANEOUS PARTS THAT ARE CURRENTLY STORED OUTSIDE.

THE EXISTING OFFICE/STORAGE/MFR BUILDING 1 IS SPRINKLERED. BUILDINGS 4 AND 5 ARE LATER ADDITIONS TO 1. THE NEW BUILDING 6 WILL ALSO HAVE AUTOMATIC FIRE EXTINGUISHING SYSTEM (AIFS).

BUILDINGS 2,3 ON THE SAME PARCEL (WITH ATTACHED PARCELS) NORTH OF BUILDING 1, ARE BOTH CURRENTLY USED AS STORAGE.
BUILDING 1 IS A METAL BUILDING ATTACHED TO BUILDING 2, A MASONRY BUILDING.
BUILDING 3 IS A METAL BUILDING, ATTACHED TO BUILDING 1.
THERE ARE OPEN BAYS BETWEEN THE TWO BUILDINGS. THE BAYS IN BUILDING 1 HAVE METAL DOORS THAT CAN BE CONVERTED TO FIRE RATED AS REQUIRED FOR AREA SEPARATION. THE TWO BUILDINGS HAVE AN ELEVATED FINISH FLOOR, APPROX 4' ABOVE THE ADJACENT GRADE.

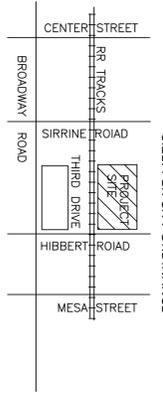
THE NEW BUILDING 6 WILL BE CMU WALLS WITH WOOD PANEL ROOF STRUCTURE AND EPDM ROOF FINISH (WHITE). THE FINISH FLOOR WILL BE RAISED APPROX 5" ABOVE ADJACENT GRADE.

THE EXISTING AND NEW BUILDINGS SHALL BE PAINTED TO MATCH EXISTING COLOR. THE PERIMETER WALL AT THE EAST SIDE OF SITE AND THE BASE OF EXISTING BUILDING-1, SHALL BE PAINTED "CANNON CLAY" (REDDISH BROWN).

LANDSCAPE TREES

THORNLESS MESQUITE
(PROSOPIS HYBRID THORNLESS)
-EXISTING -REPLACE DEAD OR MISSING TREES WITH SAME SPECIES. CONNECT TO EXISTING WATER SYSTEM.

INDIAN ROSEWOOD
(DALBERGIA SISSOO)
QUANTITY: (4)
SIZE: PER CITY ORDINANCE



GEN INFO

PROJECT
CHASSIS TECH/AIRBAGIT
260 SOUTH HIBBERT ROAD
MESA, ARIZONA 85210

PROPERTY OWNER CONTACT:
JOE MORROW
480-464-1057
E: JOE@AIRBAGIT.COM

ARCHITECT:
MARC-ARCHITECTURE
MARK LYMER, REGISTERED ARCHITECT
324 1/2 SOUTH WILSON STREET
TEMPE, AZ 85281
480-242-3467
MARK@MARC-ARCHITECTURE.COM
WWW.MARC-ARCHITECTURE.COM

CIVIL ENGINEER:
GARNERCOX ENGINEERING
2064 E. NORCROFT ST, MESA, AZ 85213
P: 480-92-2673
F: 480-287-9019

ASSESSOR'S PARCEL NUMBER:
MAIN PARCEL: 138-48-027A
AREA: 126,324 SF (MCR)
ASSOCIATED PARCEL: 138-48-025
AREA: 25,740 SF (MCR)
AREA: 152,062 SF (3.49 AC)

NOT A PART OF THIS PROJECT:
ASSOCIATED PARCEL: 138-48-007C
AREA: 12,309 SF (MCR)

LEGAL DESCRIPTION:
APN: 138-48-027A
MCR: 2318
SEC 22 TOWNSHIP 1N RANGE 5E
SUBDIVISION MESA LOT 8
APN: 138-48-025
MCR: 2318
SEC 22 TOWNSHIP 1N RING 5E
SUBDIVISION MESA LOT 8

BUILDING AREAS/OCCUPANTS (TAB 1004.1.1):
EXISTING:
BUILDING 1: OFFICES: FIRST FLOOR: 4,640 SF
(2 STORIES: 9,280 SF TL/100 SFGR =93)
BUILDING 1, STORAGE: 9,634 SF/500 SFGR=20
BUILDING 1, MFR: 23,129 SF/100 SFGR=232
BUILDING 2, STORAGE: 3,500 SF/500 SFGR=7
BUILDING 3, STORAGE: 15,570 SF/500 SFGR=32
BUILDING 4, MER: 1,844 SF/100 SFGR=19
BUILDING 5, STORAGE: 7,129 SF/500 SFGR=15
TOTAL EXISTING AREA: 70,086
(FIRST FLOOR ONLY:55,446 SF)

NEW BUILDING 6, STORAGE: 20,255 SF/500 SFGR=43
TOTAL AREA : 90,341 SF/61 OCCUPANTS

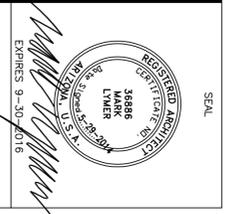
LOT COVERAGE:
EXISTING: 65,446 SF/152,892 SF = 42.8%
NEW: 85,701 SF/152,062 SF = 56.35 %

PARKING REQUIRED:
OFFICE: 9,280 SF/375 SF = 25 SPACES
MANUFACTURING: 24,973 SF/600 SF = 42 SPACES
TOTAL REQUIRED: 129

ZONING: DB-2, DOWNTOWN OVERLAY
SETBACKS: NORTH: 10' /EAST: 15'
/SOUTH: 0' /WEST: 0'
BUILDING HT: 2 STORIES, 25' MAX

SHEET INDEX

ARCHITECTURAL	ARCHITECTURAL
A101 GEN INFO/ NEW SITE PLAN	A101 GEN INFO/ NEW SITE PLAN
A201 NEW FLOOR PLAN	A201 NEW FLOOR PLAN
A301 NEW ROOF PLAN	A301 NEW ROOF PLAN
A302 ELEVATIONS	A302 ELEVATIONS
BUILDING SECTIONS	BUILDING SECTIONS

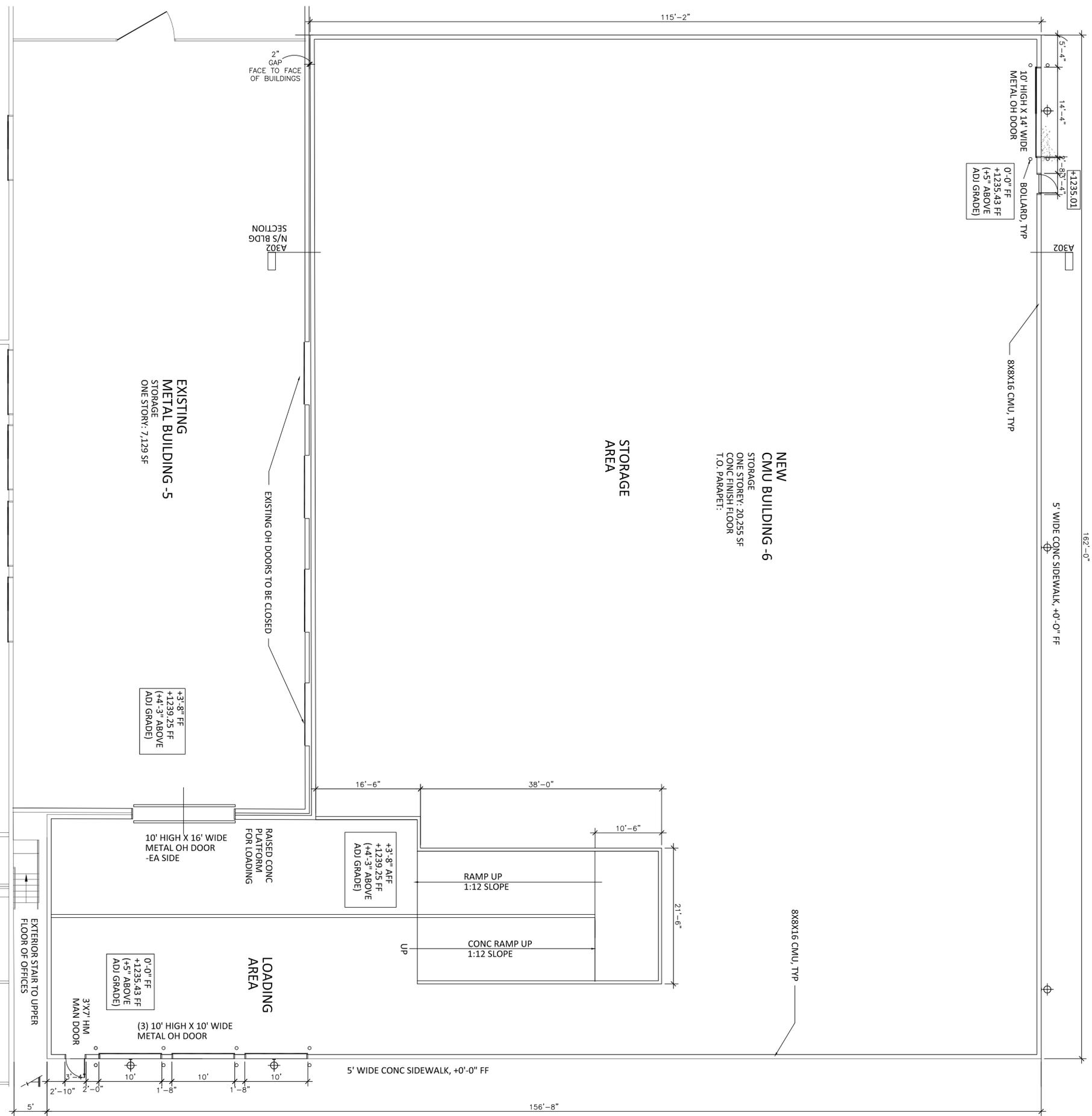


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Mark Lymer, architect
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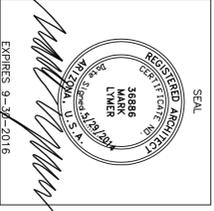
DESIGN: MLL	PROJECT NUMBER: CHASSIS
DRAWN: MLL	SCALE: AS SHOWN
APPROVAL: MLL	DATE: 5/29/2014
CITY COMMENTS	

GENERAL INFO, CODES, SITE PLAN
A101
OF



SYMBOLS 'N' NEW/'E' EXISTING

- EXISTING CMU WALL
- EXISTING WOOD STUD WALL
- NEW WOOD STUD WALL, SEE FLOOR PLANS
- FIRE EXTINGUISHER, TYPE 2-A10-B-C
- EXIT LIGHT FIXTURE WITH EMERGENCY BATTERY PACK
- EMERGENCY LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE W/COMPACT FLUORESCENT LAMP
- PENDANT LIGHT FIXTURE W/COMPACT FLUORESCENT LAMP
- TRACK LIGHT FIXTURE W/FLUORESCENT LAMPS
- WALL MOUNTED LIGHT FIXTURE W/FLUORESCENT LAMP
- FIRE SPRINKLER HEAD
- FIRE ALARM
- SMOKE/CARBON MONOXIDE ALARM
- AUDIO SPEAKER
- HVAC DIFFUSER
- HVAC RETURN
- DOOR NUMBER
- FIRE ALARM PULL BOX
- DATA OUTLET
- THERMOSTAT
- LIGHT SWITCH '3'-3-WAY', 'R'-REOSTAT/DIMMER
- EMERGENCY LIGHTING TIMER
- +4'2" MOUNT AT +4'2" AFF
- ELECTRICAL WALL PANEL
- AFCI ARC FAULT CURRENT INTERRUPTOR
- GFCI GROUND FAULT CURRENT INTERRUPTOR
- DIMMER LIGHT SWITCH
- LIGHT SWITCH WITH MOTION SENSOR
- 2 LAMP CGL WNTD FLUORESCENT LIGHT FIXTURE
- CGL WNTD FAN



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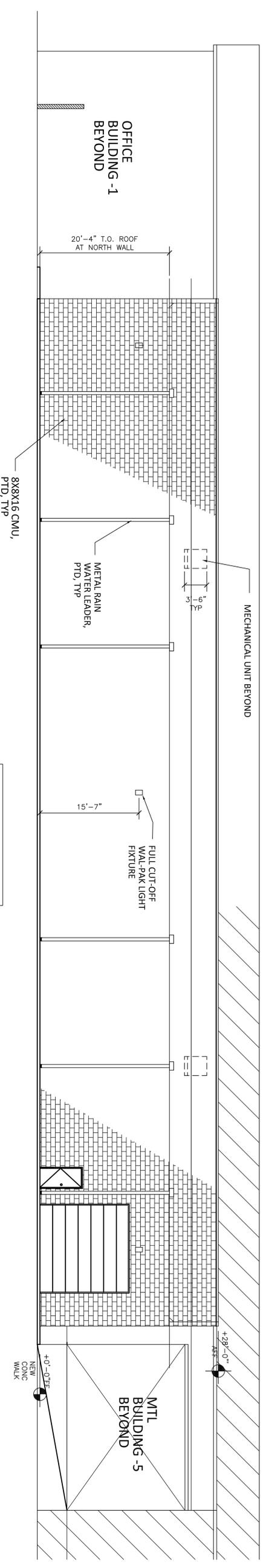
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DRAWN: MLL	SCALE: AS SHOWN
APPROVAL: MLL	DATE: 5/29/2014
DRAWING NAME/NUMBER: NEW FLOOR PLAN	FIRST COMMENTS
	DATE

A201

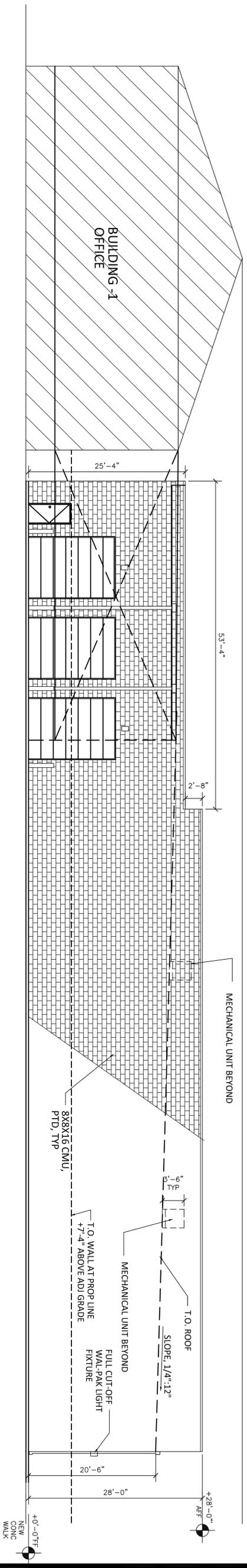
NEW FLOOR PLAN



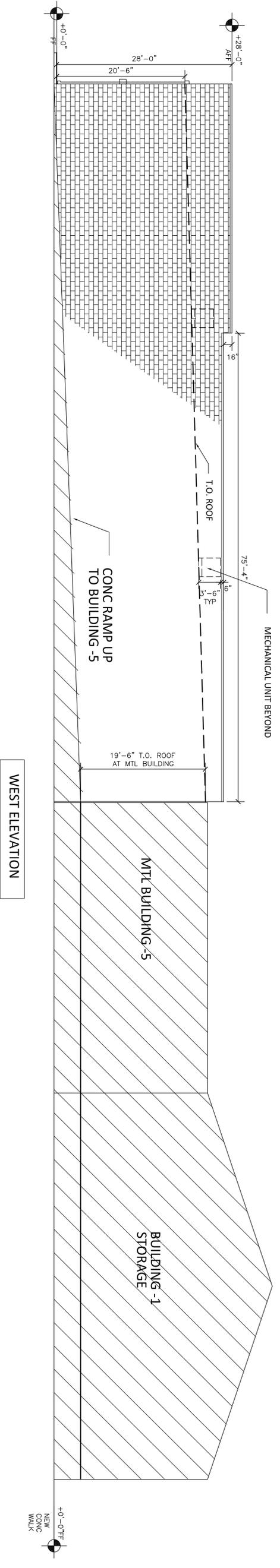
SCALE: 1/8" = 1'-0"



NORTH ELEVATION



EAST ELEVATION



WEST ELEVATION

NEW ELEVATIONS

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

SEAL

REGISTERED ARCHITECT
 35886
 MARK
 LYMER
 State of Arizona
 EXPIRES 9-30-2016

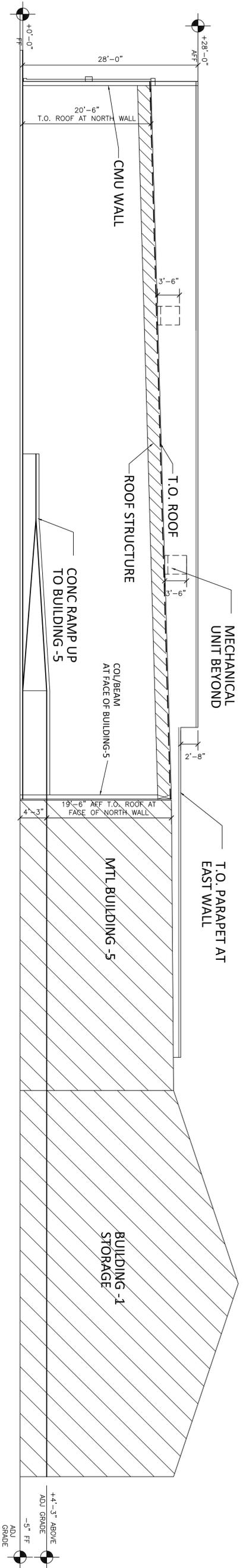
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 Mark Lymer, architect
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 M: 480-242-3467
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PROJECT NAME: CHASSIS	
FIRST SUBMITTAL: 5/29/2014	
COMMENTS	DATE
1	

DRAWING NAME/NUMBER:
 DESIGN REVIEW
 ELEVATIONS

A301



N/S BUILDING SECTION
SCALE: 1/8" = 1'-0"

SEAL

REGISTERED ARCHITECT
 35886
 MARK LYMER
 State of Arizona License No. 35886
 EXPIRES 9-30-2016

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 MESA, ARIZONA 85210

PROJECT NAME: CHASSIS	
FIRST SUBMITTAL: 5/29/2014	
COMMENTS	DATE
1	

DRAWING NAME/NUMBER:
 DESIGN
 REVIEW
 BUILDING SECTION

A302