

ADDITION to MOORES GLASS

CODE REVIEW

THE ENGINEERS HAVE PLACED THE CODE DATA RELEVANT TO THEIR DISCIPLINE ON THEIR RESPECTIVE SHEETS.

2012 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLANS SHEET 1 OR 2)

NAME OF PROJECT: MOORES GLASS
 ADDRESS: 1115 SOUTH 3RD STREET, WILMINGTON, NC ZIP CODE: 28405
 PROPOSED USE: GLASS COMPANY
 OWNER: JOHN MOORE CONTACT: MARK GRENNELL, ARCHITECT PHONE # (910) 233-1061 E-MAIL: mg.architect@outlook.com

OWNED BY: CITY/COUNTY PRIVATE STATE
 CODE ENFORCEMENT JURISDICTION: CITY: COUNTY: NEW HANOVER STATE: N.C.

DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
MARK GRENNELL, ARCHITECT	MARK GRENNELL	7438	910-233-1061	mg.architect@gmail.com

2012 EDITION OF NC CODE FOR: NEW CONSTRUCTION ADDITION UPGRADE
 EXISTING RECONSTRUCTION ALTERATION REPAIR RENOVATION

CONSTRUCTED: 1997 RENOVATED: N/A
 ORIGINAL USE(S) (CH. 3): N/A
 CURRENT USE(S) (CH. 3): N/A
 PROPOSED USE(S) (CH. 3): BUSINESS, WAREHOUSE

BASIC BUILDING DATA

CONSTRUCTION TYPE: I-A I-B II-A II-B III-A III-B IV V-A V-B
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
 STANDPIPES: NO YES CLASS: I II III WET DRY
 FIRE DISTRICT: NO YES (PRIMARY)
 FLOOD HAZARD AREA: NO YES
 BUILDING HEIGHT: (FEET) 20'

FLOOR:	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL	RENOVATED (SQ FT)	UPFIT (SQ FT)
2nd FLOOR MEZZANINE	5,000 SF	1,000 SF			
GROUND FLOOR					
TOTAL		6,000 SF			

ALLOWABLE AREA OCCUPANCY:
 A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY
 HAZARDOUS
 INSTITUTIONAL
 I-3 CONDITION
 MERCANTILE
 RESIDENTIAL
 STORAGE
 UTILITY AND MISCELLANEOUS

ACCESSORY OCCUPANCIES:
 A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY
 HAZARDOUS
 INSTITUTIONAL
 I-3 CONDITION
 MERCANTILE
 RESIDENTIAL
 STORAGE
 UTILITY AND MISCELLANEOUS

INCIDENTAL USES (TABLE 508.2.5)
 FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT
 ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
 REFRIGERANT MACHINE ROOM
 HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
 INCINERATOR ROOMS
 PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
 LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN A GROUP E OR I-2 OCCUPANCY
 LAUNDRY ROOMS OVER 100 SQUARE FEET
 GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES
 GROUP I-2 WASTE AND LINEN COLLECTION ROOMS
 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET
 STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1,000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES
 ROOMS CONTAINING FIRE PUMPS
 GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET
 GROUP I-2 COMMERCIAL KITCHENS
 GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SQUARE FEET
 GROUP I-2 ROOMS OR SPACES THAT CONTAIN FUEL-FIRED HEATING EQUIPMENT

SPECIAL USES: 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416
 417 418 419 420 421 422 423 424 425 426 427

SPECIAL PROVISIONS: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9

MIXED OCCUPANCY: NO YES SEPARATION: HR. EXCEPTION:
 INCIDENTAL USE SEPARATION (508.2.5)
 THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).

NON-SEPARATED USE (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, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

SEPARATED USE (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.

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B = 1 OR LESS
 ALLOWABLE AREA OF OCCUPANCY A + ALLOWABLE AREA OF OCCUPANCY B = 1 OR LESS

STORY NO.	DESCRIPTION AND USE	BLDG AREA PER STORY (ACTUAL)	TABLE 503 (5) AREA	AREA FOR FRONTAGE INCREASE (1)	AREA FOR SPRINKLER INCREASE (2)	ALLOWABLE AREA OR UNLIMITED (3)	MAXIMUM BUILDING AREA (4)
1	LJM FASHION & FURNISHING (M)	2,000 SF	9,000.0 SF	NOT USED	NOT USED	9,000.0 SF	
1	ACAPE - HOUSE OF LOVE (A-3)	1,000 SF	6,000.0 SF	NOT USED	NOT USED	6,000.0 SF	
1	MOORES GLASS (B)	530.0 SF	9,000.0 SF	NOT USED	NOT USED	9,000.0 SF	
1	MOORES GLASS (F2 WAREHOUSE)	1,470 SF	13,000.0 SF	NOT USED	NOT USED	13,000.0 SF	

SUMMARY: THE BUILDING IS SINGLE STORY. CONSTRUCTION TYPE IS V-B. THE ENTIRE BUILDING AREA, INCLUDING THE ADDITION, IS 6,000 SF. THIS EQUALS WHAT'S PERMITTED FOR THE MOST RESTRICTIVE USE.

- FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
 A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (P)
 B. TOTAL BUILDING PERIMETER = (P)
 C. RATIO (FP) = (P) / (P)
 D. W = MINIMUM WIDTH OF PUBLIC WAY = (W)
 E. PERCENT OF FRONTAGE INCREASE IF = 100 [FP - 0.25] X W/30 = (X) %
 F. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:
 A. MULTI-STORY BUILDING IS = 200 PERCENT
 B. SINGLE STORY BUILDING IS = 300 PERCENT
 C. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
 D. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X E (506.4).
 E. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.

ALLOWABLE HEIGHT	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
TYPE OF CONSTRUCTION	TYPE: V-B	NOT USED	TYPE: V-B	
BUILDING HEIGHT IN FEET	40 FT	FEET = H + 20' =	20 FT	
BUILDING HEIGHT IN STORIES	1	STORIES + 1 =	1	

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQD	PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES		0					
BEARING WALLS		0					
EXTERIOR INTERIOR	>10'	0					
NONBEARING WALLS AND PARTITIONS		0					
EXTERIOR WALLS INTERIOR WALLS	>10'	0					
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0					
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0					
SHAFT ENCLOSURES - EXIT		N/A					
SHAFT ENCLOSURES - OTHER		N/A					
CORRIDOR SEPARATION		N/A					
OCCUPANCY SEPARATION		N/A					
PARTY/FIRE WALL SEPARATION		N/A					
SMOKE BARRIER SEPARATION		N/A					
TENANT SEPARATION		N/A					
INCIDENTAL USE SEPARATION		N/A					

* INDICATE SECTION NUMBER PERMITTING REDUCTION
 LIFE SAFETY SYSTEM REQUIREMENTS
 EMERGENCY LIGHTING: NO YES
 EXIT SIGNS: NO YES
 FIRE ALARM: NO YES
 SMOKE DETECTION SYSTEMS: NO YES
 PANIC HARDWARE: NO YES

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED WITH 5' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
(M)	1/400 SF = 5	5	1	1
(A-3)	50 SEATS/4 = 13	13		
(F-2)	1/1500 = 2	2		
TOTAL (INCLUDES ACCESSIBLE SPACES) =		21		

SPECIAL INSPECTIONS REQUIRED: YES NO
 SPECIAL APPROVAL: 1.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS & TUBS	MOP SINK	DRINKING FOUNTAINS
SPACE	MALE/FEMALE	MALE/FEMALE/UNISEX	MALE/FEMALE/UNISEX			REGULAR/ACCESSIBLE
F-2	5 M; 5 F	- - 1	- - 1	- - 1	-	-

NOTE: PER 2902.2 EXCEPTION (2) SEPARATE FACILITIES ARE NOT REQUIRED FOR MALE AND FEMALE WITH A TOTAL OCCUPANT LOAD OF 25 OR LESS

WALL ASSEMBLY

MATERIAL	R-VALUE
EXTERIOR AIR FILM	0.17
METAL SIDING	0.0
R-13 BATT INSULATION	13.0
INSIDE AIR FILM	0.68
TOTAL R VALUE:	13.85
U VALUE OF WALL ASSEMBLY:	0.072
REQUIRED U-FACTOR:	0.094

THIS IS ACCEPTABLE BECAUSE IT IS LESS THAN THE REQUIRED U VALUE OF 0.094 PER TABLE 502.1.2 FOR ZONE 3

NOTE: OTHER ASSEMBLIES MAY BE CONSIDERED IF THE PROVIDER CAN PROVE THAT THEY COMPLY WITH THE 2012 NC ENERGY CONSERVATION CODE AS AMENDED 2012-2016.

3 PRESCRIPTIVE WALL U-FACTOR

NO SCALE

ROOF ASSEMBLY

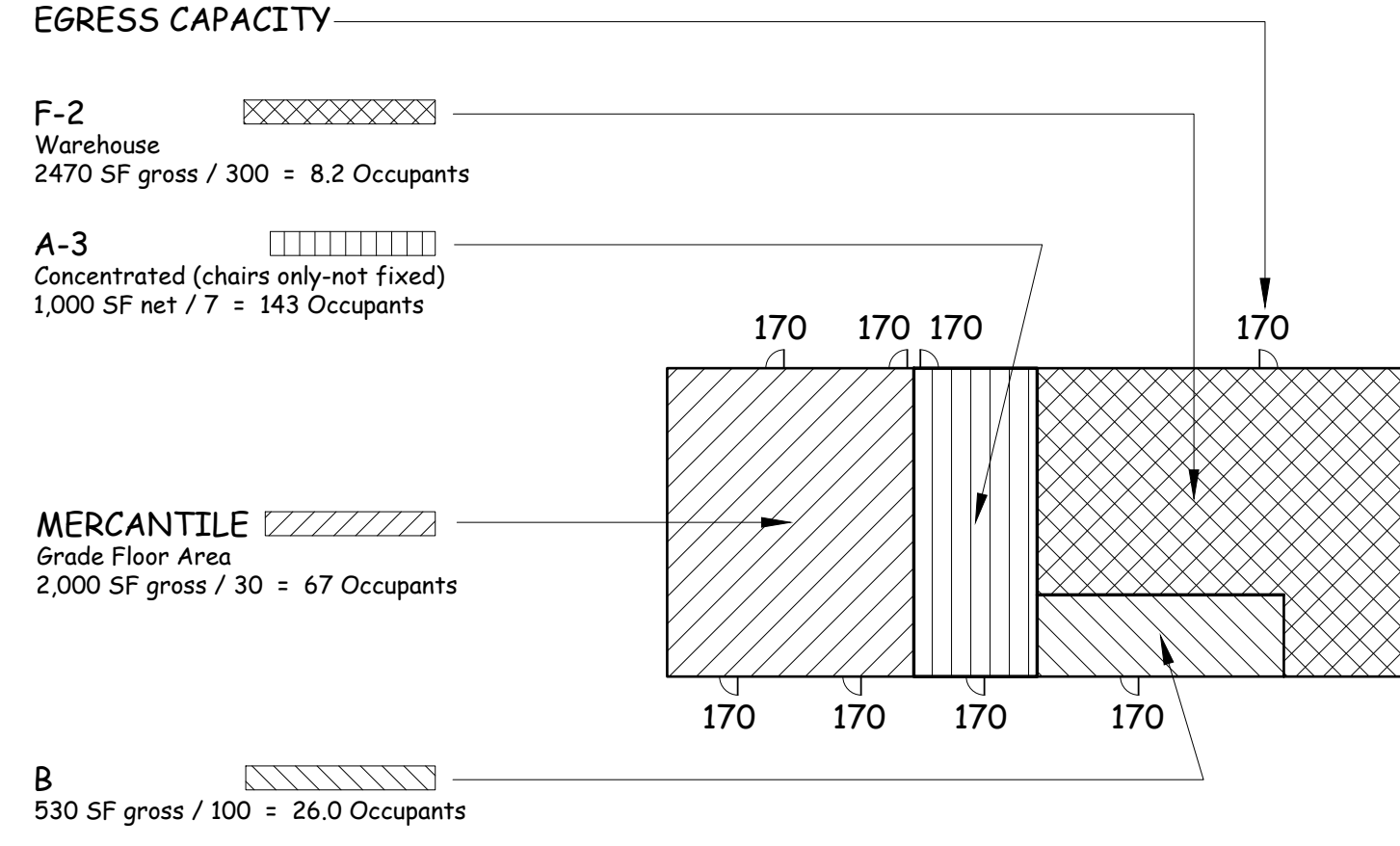
MATERIAL	R-VALUE
EXTERIOR AIR FILM	0.17
METAL ROOFING	0.00
METAL FRAMING	0.00
R-25 INSULATION	25.0
INSIDE AIR FILM	0.68
TOTAL R VALUE:	25.85
U VALUE OF ROOF ASSEMBLY:	0.03
REQUIRED U-FACTOR:	0.041

THIS IS ACCEPTABLE BECAUSE IT IS LESS THAN THE REQUIRED U VALUE OF 0.041 PER TABLE 502.1.2 FOR ZONE 3

NOTE: OTHER ASSEMBLIES MAY BE CONSIDERED IF THE PROVIDER CAN PROVE THAT THEY COMPLY WITH THE 2012 NC ENERGY CONSERVATION CODE AS AMENDED 2012-2016.

4 PRESCRIPTIVE ROOF U-FACTOR

NO SCALE



2 OCCUPANT LOAD

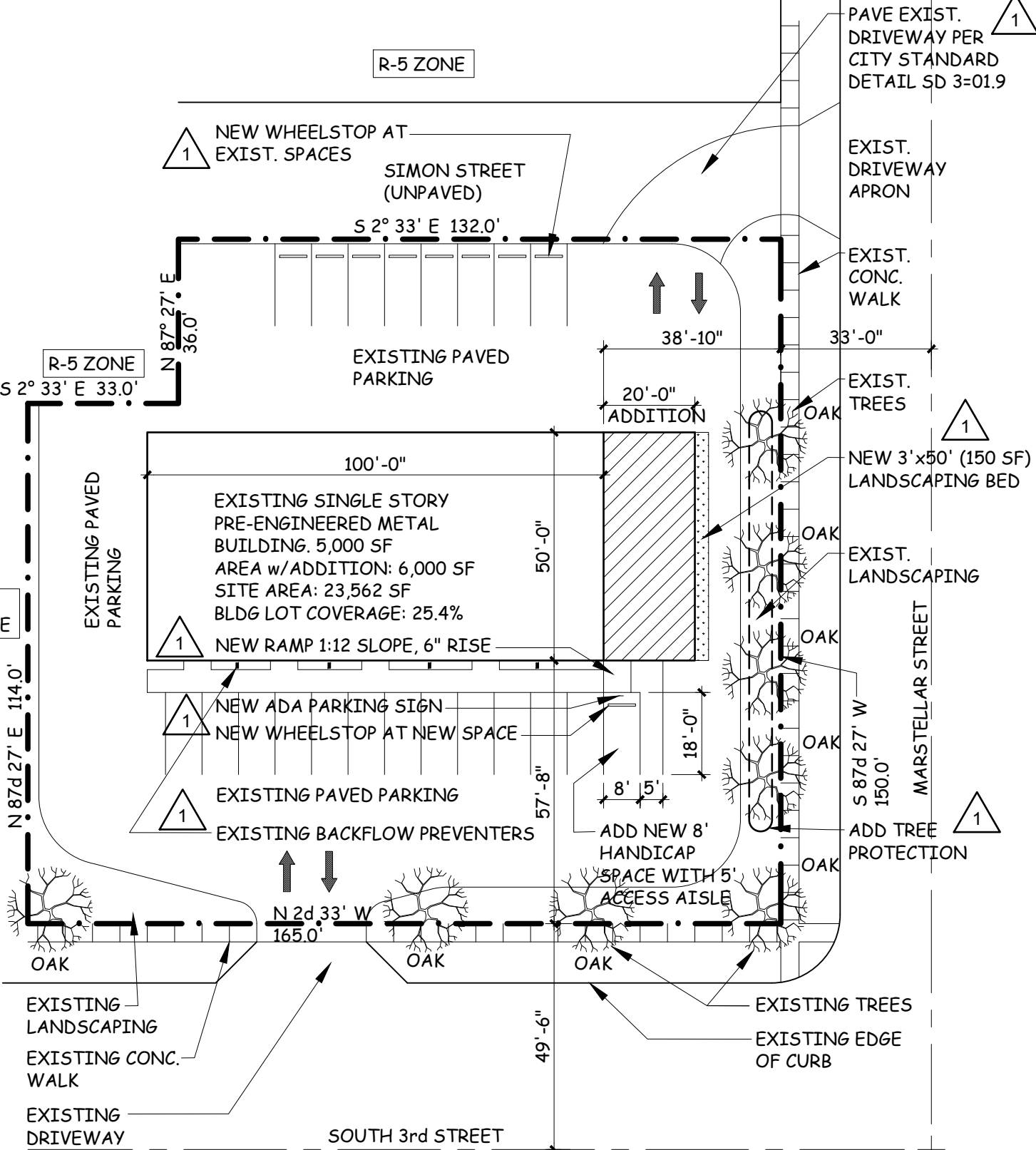
1"=30'

Plan Review Type:
 MAJOR SITE PLAN (TRC MEETING & REVIEW)
 (Greater than 2 acres or over 10,000 gross square feet)

MINOR SITE PLAN REVIEW (TRC REVIEW)
 (Less than 2 acres or less than 10,000 gross square feet)

Key Information:
 A vicinity sketch or key map; [SEE SHEET A0.1]
 True north arrow, with north being at the top of the map; [SEE SHEET A0.1]
 Scale of the map using engineer's scale both graphic and numeric; [SEE SHEETS A0 AND A0.1]

Title Block/Site Data Tabulation:
 Name of the development; [SEE CODE REVIEW SHEET A0 ALSO SHOWN ON A0.1]
 Name of the property owner; [SEE CODE REVIEW ON SHEET A0 ALSO SHOWN ON A0.1]
 Name, address and telephone number of the designer who prepared the plan; [SEE CODE REVIEW ON SHEET A0]
 Project address; [SEE CODE REVIEW SHEET A0 ALSO SHOWN ON A0.1]
 PIN number or Tax Parcel Number; [R05413-019-005-000]
 Zoning district; [UMX]
 Building setbacks, required; [NONE, EXCEPT WHERE ABUTS RESIDENTIAL, THEN 5']
 Building setbacks, proposed; [GREATER THAN 5' ALL SIDES]
 Total amount of acreage within the project; [54 ACRES]
 Boundaries:
 Building size (square footage), both existing and proposed; [EXISTING: 5,000 SF; ADDITION: 1,000 SF]
 Calculations for building lot coverage; [6,000 SF BLDG / 23,562 SF LOT: 25.4%]
 Number of units; (and number of bedrooms per unit if multi-unit residential) [3 TENANTS]



1 SITE PLAN

1"=30'

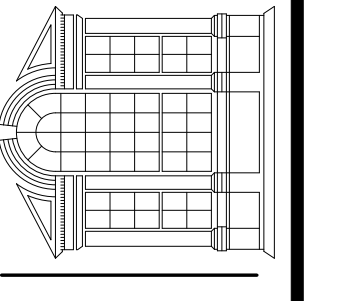
TRASH SERVICE TO UTILIZE ROLLING CARTS

SCOPE OF SITEWORK:
 -REMOVE PAVEMENT FOR NEW ADDITION
 -CONSTRUCT NEW ADDITION
 -ADD NEW ACCESSIBLE PARKING SPACE WITH ACCESS AISLE
 -ADD NEW WHEELSTOP
 -ADD NEW ACCESSIBLE PARKING SIGN
 -ADD NEW ACCESSIBLE CURB RAMP.

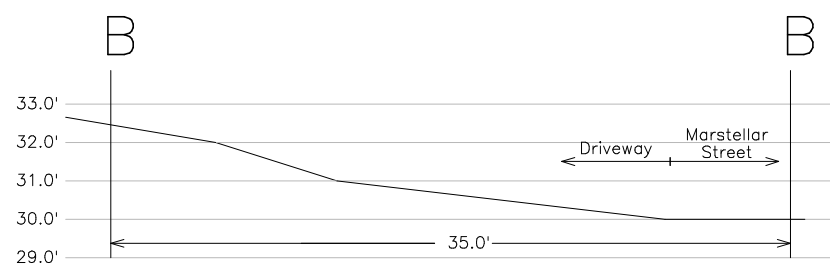
City of Wilmington, North Carolina
 Public Services • Engineering Division
 APPROVED PLAN - NO PERMIT REQUIRED
 Signed: [Signature]

A Building Addition to
Moore's Glass Service Inc
 1115 South 3rd Street
 Wilmington, NC

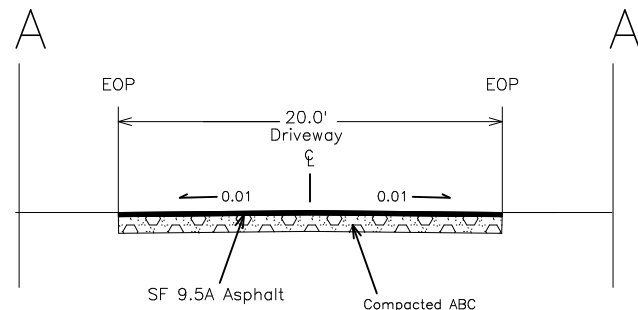
MARK GRENNELL, ARCHITECT
 P O Box 393 Castle Hayne, NC 28429 Voice 910-233-1061 Fax 910-675-9161
 All information and dimensions shown are subject to verification. These drawings and ideas have been depicted for information of service, and as such are the sole property of Mark Grennell, Architect.



31 May 2017
 REVISIONS
 n.o. date
 1. 2 AUG 2017 TRC COMMENTS
 APPENDIX B SITE PLAN
 SCALE AS NOTED
ARCH A0

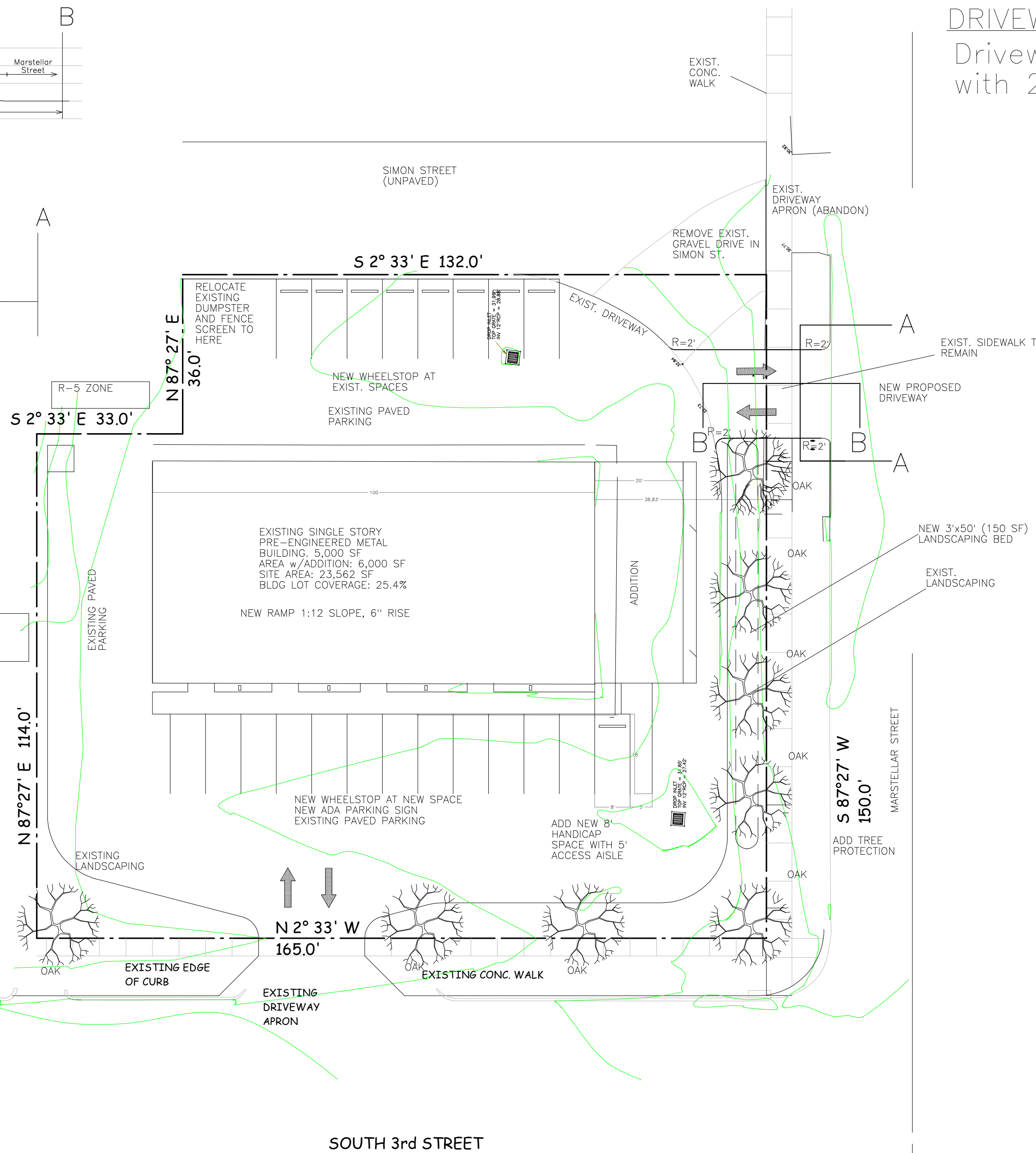
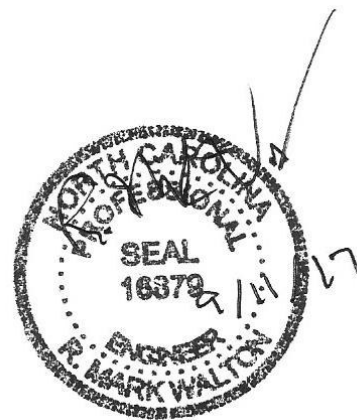


SECTION B-B
NOT TO SCALE

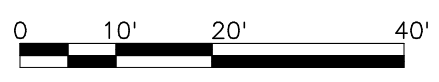
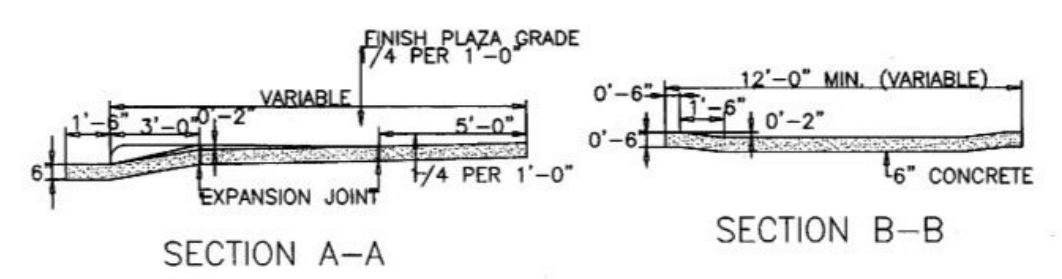
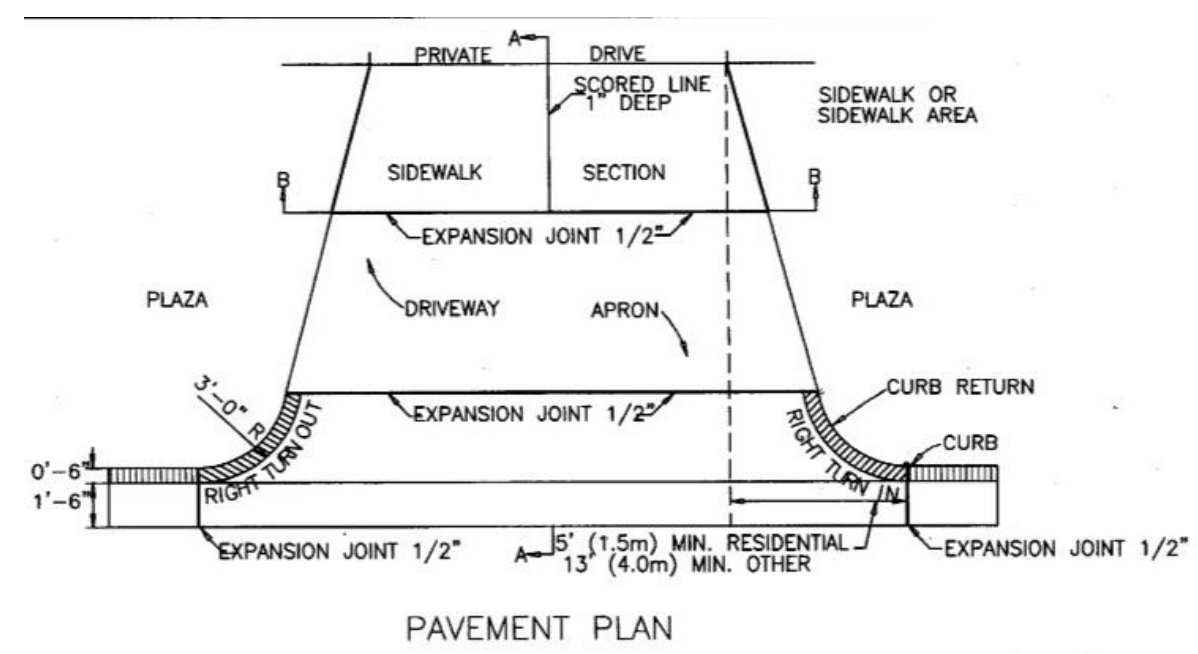
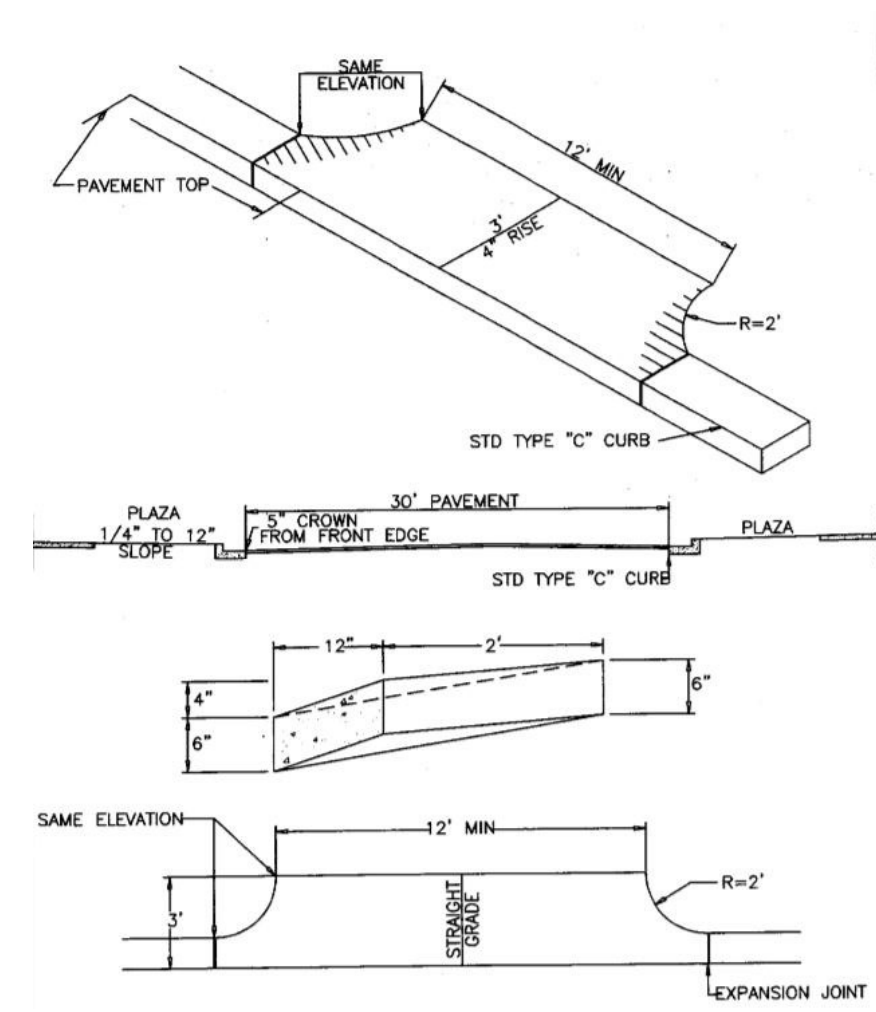


SECTION A-A
NOT TO SCALE

NOTE: This plan is based on a site plan by Mark Grenell Architect. By my seal below, I am certifying only the driveway plan and details.



DRIVEWAY NOTES:
Driveway Pavement: 6" ABC
with 2" SF 9.5A



Sheet 1 of 1	Project: Moores Glass	Title: Driveway Plan	<p>PO Box 895, Burgaw, NC 28425 (910) 259-4800 Firm License# F-0968</p>
Date: 08/28/17	Scale: 1" = 20'	Drawn by: RMW/DAT	