

GENERAL NOTES

REVISIONS

Date 1-17-2021
Date 3-23-2021



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WYNNE L. WARNER ARCHITECT
2922 CAMDEN LAKE PARKWAY
ACWORTH, GA 30010
(770)365-6638

Sai Ram Consultants, Inc.
(Structural Engineers)
1230 Nash Lee Drive,
Lilburn, GA 30047
Ph. 404-456-0405
Ph. 404-456-3556
mskukula@gmail.com
www.sai-ram-structural-engineers.com

DUNKIN DONUTS
3020 FIVE FORKS TRICKUM ROAD
LILBURN, GA 30047

Drawn By: W/LW
Checked By: W/SK
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S00
RELEASED FOR CONSTRUCTION

I. COORDINATION

A. THE CONTRACTOR SHALL COMPARE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SERVICES DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

B. ONLY LARGER SLEEVE OPENINGS AND FRAMED OPENINGS IN STRUCTURAL FRAMING COMPONENT MEMBERS ARE INDICATED ON THE STRUCTURAL DRAWINGS. HOWEVER, ALL SLEEVES, INSERTS AND OPENINGS, INCLUDING FRAMES AND/OR SLEEVES SHALL BE PROVIDED FOR PASSAGE, PROVISION AND/OR INCORPORATION OF THE WORK OF THE CONTRACT, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING WORK. THIS WORK SHALL INCLUDE THE COORDINATION OF SIZES, ALIGNMENT, DIMENSIONS, POSITION, LOCATIONS, ELEVATIONS AND GRADES AS REQUIRED TO SERVE THE INTENDED PURPOSE. OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS, BUT REQUIRED AS NOTED ABOVE, SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.

C. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, GRABS AND LOCATION OF DEPRESSIONS AND ELEVATED FLOOR AREAS.

D. COMPATIBILITY OF THE STRUCTURE AND PROVISIONS FOR BUILDING EQUIPMENT SUPPORTED ON OR FROM STRUCTURAL COMPONENTS SHALL BE VERIFIED AS TO SIZE, DIMENSIONS, CLEARANCES, ACCESSIBILITY, WEIGHTS AND REACTION WITH THE EQUIPMENT FOR WHICH THE STRUCTURE HAS BEEN DESIGNED PRIOR TO SUBMISSION OF SHOP DRAWINGS AND DATA FOR EACH PIECE OF EQUIPMENT AND FOR STRUCTURAL COMPONENTS. DIFFERENCES SHALL BE NOTED ON THE SUBMITTALS.

E. THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE STRUCTURAL DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

F. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED BY THE ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE LATERAL-LOAD RESISTING OR STABILITY PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER. TEMPORARY SUPPORTS SHALL NOT RESULT IN THE OVERSTRESS OR DAMAGE OF THE ELEMENTS TO BE BRACED NOR ANY ELEMENTS USED AS BRACE SUPPORTS.

G. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES AND SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO, ADHERENCE TO ALL OSHA REGULATIONS. THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR SAFETY PRECAUTIONS PROGRAMS IN CONNECTION WITH THE WORK. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THESE PERSONS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS.

H. WHERE CONFLICTS EXIST AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, SHALL GOVERN.

II. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION IS NOT INTENDED TO BE A CHECK OF THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER A VISUAL CHECK IN AN EFFORT TO INFORM THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

J. DRAWINGS ARE DRAWN AS PER DIMENSIONS PROVIDED. DO NOT SCALE OFF OF DRAWINGS.

III. SUBSTITUTIONS

A. ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD.

B. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SAVINGS OR DURATION TO BE DEDUCTED FROM THE CONTRACT AND/OR SCHEDULE IMPACT. SUBSTITUTIONS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.

III. CODES

A. THE GENERAL BUILDING CODE USED AS THE BASIS FOR THE STRUCTURAL DESIGN IS AS FOLLOWS:

- INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GA AMENDMENTS

B. STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI, AS REFERENCED BY THE GENERAL BUILDING CODE.

C. WOOD FRAMING: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH SUPPLEMENT, NATIONAL FOREST AND PAPER PRODUCTS ASSOCIATION, AS REFERENCED BY THE GENERAL BUILDING CODE.

D. STRUCTURAL PLYWOOD: PLYWOOD DESIGN SPECIFICATION, AMERICAN PLYWOOD ASSOCIATION, AS REFERENCED BY THE GENERAL BUILDING CODE.

E. PREFABRICATED METAL PLATE CONNECTED WOOD TRUSSES: DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1.

IV. DESIGN LOADS

A. DEAD LOADS INCLUDE THE SELF-WEIGHT OF THE STRUCTURAL ELEMENTS AND THE FOLLOWING:

- ROOF TRUSSES AND CEILING 10 PSF (TOP CHORD) & 10 PSF BOTTOM CHORD
- MECHANICAL UNIT WEIGHT ADDITIONAL ON THE ROOF TRUSSES DESIGN PER MECHANICAL DRAWINGS
- LIGHT FRAME WOOD WALL 9 PSF

B. LIVE LOADS OCCUPANCY OR USE UNIFORM CONCENTRATED

- ROOF TRUSSES 20 PSF (TOP CHORD) N/A

C. TRUSSES SHALL BE DESIGNED FOR THE SUPERIMPOSED WIND LOADS IN ACCORDANCE WITH THE SPECIFIED GENERAL BUILDING CODE AND THE SPECIFIED BASIC WIND SPEED, EXPOSURE, AND IMPORTANCE FACTOR. INCREASE MEMBER SIZES OR PROVIDE ADDITIONAL BRACING AS REQUIRED TO RESIST UPLIFT FORCES.

H. CONNECT ROOF TRUSSES TO BEARING WALL OR BEAM SUPPORT AT EACH END WITH A TYPE 16.2 FRAMING ANCHOR AS MANUFACTURED BY THE SIMPSON COMPANY OR ACCEPTED EQUAL.

I. FOR SIZE AND LOCATION OF MECHANICAL OPENINGS, SEE MECHANICAL DRAWINGS

A. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW. SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA. SHOP DRAWINGS SHALL ALWAYS BE AVAILABLE ON THE JOB SITE DURING THE TIME OF INSPECTION.

K. TAG ALL CONNECTION POINTS ON WEB MEMBERS WHERE PERMANENT LATERAL BRACING IS REQUIRED BY DESIGN.

L. AT ROOF RIDGES AND VALLEYS NOT FRAMED WITH HIP TRUSSES, PROVIDE BRACING BETWEEN TRUSSES AS REQUIRED TO PROVIDE CONTINUOUS SUPPORT FOR ROOF SHEATHING.

XIV. SHOP DRAWING NOTE:

- SHOP DRAWINGS FOR THE FOLLOWING BUILDING COMPONENTS NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS APPROVED FOR BUILDING PERMIT AND SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIME OF INSPECTION AND SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GA.
 - ROOF TRUSSES
 - BEAMS & COLUMNS

XV. CONCRETE (28 DAYS):

FOOTINGS	3000 PSI
SLAB-ON-GRADE	3000 PSI
ALL OTHER CONCRETE	3000 PSI

REINFORCING STEEL
REINFORCED BAR ANCHORS (DBA)
HEADED STUDS
WELDED WIRE FABRIC
A615 GRADE 60
A108
A195

VI. SUBMITTALS

A. SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE STRUCTURAL DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE CIRCLED.

B. CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SHALL CERTIFY THAT THEY HAVE DONE SO BY A STAMP NOTING THAT THE DRAWINGS HAVE BEEN "APPROVED" AND WHICH BEARS THE SIGNATURE (OR INITIALS) OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE. SUBMITTALS WHICH DO NOT REFLECT THE CONTRACTOR'S APPROVAL, SIGNATURE AND DATE WILL BE RETURNED WITHOUT REVIEW.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE SHOP DRAWINGS.

D. WHERE REVIEW AND RETURN OF SHOP DRAWINGS IS REQUIRED OR REQUESTED, THE ENGINEER WILL REVIEW EACH SUBMITTAL AND, WHERE POSSIBLE, RETURN WITHIN 2 WEEKS OF RECEIPT.

E. CORRECTIONS OR COMMENTS ON SHOP DRAWINGS OR MANUFACTURER'S DATA SHEETS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATING THE WORK WITH THAT OF ALL OTHER CONTRACTORS.

F. REFER TO INDIVIDUAL SECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

G. CONTRACTOR SHALL SUBMIT ONE REPRODUCIBLE COPY AND THREE MAXIMUM COPIES. ENGINEER WILL REVIEW COMMENT AND RETAIN ONE COPY OF EACH SUBMITTAL AND TRANSFER COMMENTS UNTIL THE REMAINING COPIES FOR DISTRIBUTION TO THE ARCHITECT, OWNER, AND CONTRACTOR. ADDITIONAL COPIES SUBMITTED WILL NOT HAVE COMMENTS TRANSFERRED TO THEM. ALTERNATIVELY, SUBMITTALS MAY BE SUBMITTED ELECTRONICALLY. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND DISTRIBUTING ENGINEER'S COMMENTS TO THEIR SUBCONTRACTORS.

VII. EXCAVATION PROTECTION

A. THE SIDES OF ALL EXCAVATIONS GREATER THAN 5'-0" IN DEPTH SHALL BE LAID BACK TO A SLOPE OF 3 HORIZONTAL TO 1 VERTICAL. IN AREAS WHERE PEOPLE WALKED ON SLOPED AREAS, A SLOPE OF 4 HORIZONTAL TO 1 VERTICAL IS RECOMMENDED, UNLESS THE FOLLOWING APPLIES:

- A STEEPER SLOPE IS ALLOWED BY THE GEOTECHNICAL ENGINEER FOR THE PARTICULAR LOCATION AND SITE CONDITIONS IN QUESTION.
- A TEMPORARY RETENTION SYSTEM IS INDICATED ON THE STRUCTURAL DRAWINGS.
- AN ALTERNATIVE PROTECTIVE SYSTEM IS SUBMITTED BY THE CONTRACTOR AND ALLOWED BY THE OWNER.

B. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS SEALED BY A REGISTERED ENGINEER LICENSED IN THE STATE OF GEORGIA FOR THE DESIGN OF ANY TEMPORARY RETENTION OR ALTERNATIVE PROTECTIVE SYSTEMS. TEMPORARY RETENTION OR ALTERNATIVE PROTECTIVE SYSTEMS SHALL BE DESIGNED TO RESIST THE SOIL PRESSURES STIPULATED IN THE PROJECT GEOTECHNICAL REPORT PREPARED BY STRAIN ENGINEERING GROUP, INC. DATED SEPTEMBER 8, 2017. IN ADDITION, THE DESIGN SHALL CONSIDER SURCHARGES CREATED BY CONSTRUCTION EQUIPMENT, EXCAVATION SOIL, AND OTHER SURFACE ENCUMBRANCES.

C. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS AND ALL OTHER REGULATORY AGENCY STANDARDS REGARDING EXCAVATION SAFETY.

VIII. SOILS

A. THE DESIGN ALLOWABLE SOIL BEARING CAPACITY SHALL BE EQUAL TO 2000 PSF (ASSUMED).

B. FROST DEPTH SHALL BE 12" BELOW FINISHED GRADE.

C. ALL STRUCTURAL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO T-99 (ASTM D-1557) COMPACTION CRITERIA. REFER TO GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENT.

D. ALL SPREAD AND CONTINUOUS WALL FOOTINGS SHALL BE BY UNDISTURBED NATURAL SOILS OR STRUCTURAL FILL EXTENDING TO UNDISTURBED SOILS IN ACCORDANCE WITH GEOTECHNICAL REPORT.

E. SOIL COMPACTION AND FILL SHALL BE MONITORED AND TESTED DURING FABRICATION BY A LICENSED GEOTECHNICAL ENGINEER.

VIII. CAST-IN-PLACE CONCRETE

A. CLASSES OF CONCRETE

ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS AS SPECIFIED IN THE TABLE BELOW UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.

CONC. CLASS	GRADE 60 BARS - NORMAL WEIGHT CONCRETE		GRADE 60 BARS - LIGHT WEIGHT CONCRETE	
	fc = 4000 psi	fc = 5000 psi	fc = 4000 psi	fc = 5000 psi
#4	1'-10"	1'-3"	1'-10"	1'-3"
#5	2'-4"	2'-0"	2'-4"	2'-0"
#6	3'-2"	2'-5"	3'-1"	2'-9"
#7	5'-2"	4'-0"	4'-6"	3'-1"

CONCRETE MIX SCHEDULE

CONC. CLASS	GRADE 60 BARS - NORMAL WEIGHT CONCRETE		GRADE 60 BARS - LIGHT WEIGHT CONCRETE	
	fc = 3000 psi	fc = 4000 psi	fc = 3000 psi	fc = 4000 psi
C	3'-0"	2'-5"	3'-0"	2'-5"
C	3'-0"	2'-5"	3'-0"	2'-5"

BASIC TENSION LAP SPICES-CLASS B

BAR SIZE	GRADE 60 BARS - NORMAL WEIGHT CONCRETE		GRADE 60 BARS - LIGHT WEIGHT CONCRETE	
	fc = 4000 psi	fc = 5000 psi	fc = 4000 psi	fc = 5000 psi
#3	2'-4"	1'-10"	2'-0"	1'-7"
#4	3'-11"	2'-5"	2'-1"	2'-5"
#5	3'-11"	3'-0"	3'-4"	3'-0"
#6	4'-8"	3'-7"	4'-0"	3'-7"
#7	6'-9"	5'-2"	5'-10"	4'-6"

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:

CONCRETE EXPOSED TO EARTH OR WEATHER:	3
#6 BARS THROUGH #10 BARS	2
#5 BARS OR SMALLER:	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
SLAB AND WALLS:	
#14 AND #18 BARS	1 1/2
#11 BARS AND SMALLER:	3/4
COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS:	1 1/2

CONCRETE MIX SCHEDULE

CONC. CLASS	GRADE 60 BARS - NORMAL WEIGHT CONCRETE		GRADE 60 BARS - LIGHT WEIGHT CONCRETE	
	fc = 3000 psi	fc = 4000 psi	fc = 3000 psi	fc = 4000 psi
C	3'-0"	2'-5"	3'-0"	2'-5"
C	3'-0"	2'-5"	3'-0"	2'-5"

PERMANENTLY EXPOSED TO THE WEATHER AND ELSEWHERE AT THE CONTRACTOR'S OPTION.

HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE PLACEMENTS SHALL BE PERMITTED ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS. ALL VERTICAL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS IN ACCORDANCE WITH THE TYPICAL DETAILS. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR CONSTRUCTION JOINTS NOT SHOWN ON THE STRUCTURAL DRAWINGS FOR REVIEW BY THE ARCHITECT AND ENGINEER. ADDITIONAL CONSTRUCTION JOINTS MAY REQUIRE ADDITIONAL REINFORCING AS SPECIFIED BY THE ENGINEER WHICH SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

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ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	MANUF.	MANUFACTURER
ANCH.	ANCHOR BOLT	MAX.	MAXIMUM
B	BOTTOM	MIN.	MINIMUM
B.F.F.	BELOW FINISH FLOOR	MTL.	METAL
BSM	BEAM	MC	MOMENT CONNECTION
BTM	BOTTOM	O.C.	ON CENTER
CJ	CONTROL/CONSTRUCTION JOINT	O.H.	OPPOSITE HAND
CLR.	CLEAR	OPNG.	OPENING
CMU	CONCRETE MASONRY UNIT	P.F.	JOINT FILLER
COL.	COLUMN	PL	PLATE
CONC.	CONCRETE	P.T.	PRESSURE TREATED
CONT.	CONTINUOUS	REINF.	REINFORCING
Ø	DIAMETER	SIM.	SIMILAR
EA.	EACH	SPA.	SPACES
ELEV.	ELEVATION	STL.	STEEL
E.W.	EACH WAY	TOP OF	TOP OF
F.F.	FINISH FLOOR	T & B	TOP & BOTTOM
FND.	FOUNDATION	TYP.	TYPICAL
FTG.	FOOTING	U.N.O.	UNLESS NOTED OTHERWISE
GALV.	GALVANIZED	VERT.	VERTICAL
GDR.	GIRDER	W.	WOOD
HORIZ.	HORIZONTAL	WD.	WELDED WIRE FABRIC
JST.	JOIST	WVF	WELDED WIRE FABRIC
L.H.	LONG LEG HORIZONTAL	WWM	WELDED WIRE MESH

FASTENING SCHEDULE IS MOVED TO S00.1

OCCUPANCY CATEGORY: II

DESIGN LOADS

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