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# **LIFE SAFETY PLAN KEY:**

MAXIMUM PATH OF TRAVEL LENGTH - 52'

# **PROJECT DESCRIPTION:**

NEW CONSTRUCTION OF A 1-STORY STAND ALONE FROZEN CUSTARD STORE W/ WALK UP SERICE AND NO DINE IN ON AN EXISTING SITE. THE BUILDING IS TO BE A SLAB ON

# **ADOPTED CODES:**

AD'	OPTED CODES.
2009 2006	DING CODES: INTERNATIONAL BUILDING CODE INTERNATIONAL ENERGY CONSERVATION CODE INTERNATIONAL FUEL GAS CODE
	IBING CODE: UNIFORM PLUMBING CODE
	HANICAL CODE: INTERNATIONAL MECHANICAL CODE
	TRIC CODE: NATIONAL ELECTRIC CODE
	PREVENTION: INTERNATIONAL FIRE CODE
<b>ADA:</b> 2010	ADA STANDARDS FOR ACCESSIBLE DESIGN
	ER CODES: INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

# **BUILDING ANALYSIS:**

OCCUPANCY: F-1 OCCUPANCY

REQUIRED PER TABLE 508.2

50 PERSONS CONSTRUCTION TYPE: V-B 1. NO FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 601 2. NO AREA INCREASES REQUIRED 3. NO MIXED USES OR AREA SEPERATIONS

1. BASED ON AN OCCPANT LOAD OF LESS THAN

**ZONING: ZONE O-1, CONDITIONAL USE - RETAIL** 

1. TOTAL SITE AREA: .73 ACRES 2. PLAT: LOT B CENTERSTONE

OCCUPANT LOAD (EXCLUDES OUTDOOR MECH. ENCLOSURE IN AREA TABULATION): - INTERIOR OCCUPANCY: 200 S.F. / PERSON - 1144 S.F.

- TOTAL: 7 PERSONS REQUIRED EXITS:

1. 1 REQUIRED: 3 PROVIDED 2. MAX. TRAVEL DISTANCE: 200 FEET

SPRINKLERED: NON-SPRINKLERED 1. SPRINKLERS NOT REQUIRED PER 2012 IBC

**NUMBER OF STORIES: 1** ACCESSIBLE PARKING

1. PER IBC 2012 TABLE 1106.1 ACCESSIBLE PARKING SPACES - 1 ACCESIBLE SPACE REQUIRED.

# **ANDY'S FROZEN CUSTARD - CONWAY**

2375 DAVE WARD DRIVE, CONWAY, AR 72034

BID / PERMIT SET | March 9, 2015

# **LOCATION PLAN (NTS):**

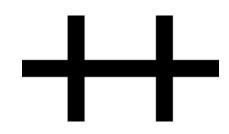




# **PROJECT DIRECTORY:**

# **ARCHITECT / INTERIOR DESIGNER:**

2375 Dave Ward Drive, Conway, AR



# **Hufft Projects**

321 West 40th Street / Kansas City, Missouri 64111 P: 816-531-0200 / F: 816-531-0201

Kimball Hales

khales@hufft.com Annie Robinson arobinson@hufft.com

# Andy's Frozen Custard,

CISE, LLC 4095 E. Farm Road 164 Springfield, MO 65809 ph: 870.275.9011

Franchisee

Contact: Mark Crabtree

hmarkc@gmail.com bcrabtree01@gmail.com Brandon Crabtree

# **STRUCTURAL ENGINEER:**

# Mettemeyer Engineering, LLC

2101 W. Chesterfield Blvd., Suite 180 Springfield, Missouri 65807 P: 417-890-8002 / F: 417-890-8003

Contact: Ken McClure kmcclure@mett-engr.com

# **SQUARE FT. INFORMATION:**

# **TOTAL NET S.F.:**

1	FRONT OF HOUSE	586 SF
2	BACK OF HOUSE	439 SF
3	OFFICE	35 SF
4	BREAK ROOM	37 SF
5	RESTROOM	46 SF
Grand	total: 5	1142 SF

# **GROSS S.F.:**

1 ANDY'S FROZEN CUSTARD 1462 SF

# **CLIENT CONTACT:**



# **Crafton Tull**

P.O. Box 10189, Russellville, AR 72812 P: 479-498-8236 <u>www.craftontull.com</u>

Contact: Gregg Long Gregg.Long@craftontull.com

# M.E.P. ENGINEER:

# Malone, Finkle, Eckhardt & Collins, Inc.

3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / F: 913-825-6697

Contact: Trevor Karstens tkarstens@mfec.com

ANOTHI ECTORIAL.	
A000	COVER SHEET
A001	NOTES
A101	ARCHITECTURA
CIVIL:	
C-101	<b>EROSION CONT</b>
C-102	SITE PLAN
C-103	GRADING PLAN
C-104	UTILITY PLAN
C-501	<b>EROSION CONT</b>

# ARCHITECTURAL:

4202	FFEFLAN
A203	REFLECTED CEILING PLAN
A204	ROOF PLAN
A301	ELEVATIONS
A302	ELEVATIONS
A401	SECTIONS
A402	SECTIONS
A501	WALL SECTIONS/ DETAILS
A502	WALL SECTIONS/ DETAILS
A503	WALL SECTIONS/ DETAILS
A504	WALL SECTIONS/ DETAILS
A505	WALL SECTIONS/ DETAILS
A506	WALL SECTIONS/ DETAILS
A507	MECHANICAL SCREEN DETAILS
A508	DUMPSTER ENCLOSURE DETAILS
A509	MONUMENT SIGN DETAILS
A601	INTERIOR ELEVATIONS
A602	INTERIOR ELEVATIONS
A603	INTERIOR ELEVATIONS

DIMENSIONED PLAN

MECHANICAL, PLUMBING, AND ELECTRICAL:

SCHEDULES AND DETALS

A703 STOREFRONT DETAILS AND ELEVATIONS

STOREFRONT DETAILS AND ELEVATIONS

ME1 ME2 ME3	SYMBOLS LEGEND MEP SPECIFICATIONS MEP SITE PLAN
M1 M2 M3 M4	PLUMBING PLANS PLUMBING PLANS HVAC PLAN HVAC DETAILS
E1 E2 E3	ELECTRIC PLANS ELECTRIC SCHEDULES AND DETAILS ELECTRIC SCHEDULES
	ME2 ME3 M1 M2 M3 M4 E1 E2

LANDSCAPE:

L-101 LANDSCAPE PLAN LANDSCAPE DETAILS L-501 IRRIGATION DETAILS

	ECTURAL:
A000 A001	COVER SHEET NOTES
A001 A101	ARCHITECTURAL SITE PLAN
CIVIL:	
C-101	EROSION CONTROL PLAN
C-102	SITE PLAN
C-103	GRADING PLAN
C-104	UTILITY PLAN
C-501	EROSION CONTROL DETAILS
C-502	SITE CONSTRUCTION DETAILS
C-503	SITE CONSTRUCTION DETAILS
STRUC	ΓURAL:
S000	GENERAL NOTES
S100	FOUNDATION PLAN
S200	FOUNDATION DETAILS
S300	ROOF FRAMING PLAN
S400	FRAMING DETAILS

REVISION SCHEDULE

PROJECT INFORMATION

**BID / PERMIT SET** 

**MARCH 9, 2015** 

ARCHITECT **Hufft Projects** 

www.hufft.com

Crafton Tull P.O. Box 10189 Russellville, AR 72812 P: 479-498-8236 www.craftontull.com

M.E.P. ENGINEER: M.F.E.C., Inc.

CONWAY

ANDY'S FROZEN CUSTARD -

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Drawn By: JDT Project Number: 236 KS License Number:

COVER SHEET

# **GENERAL NOTES:**

For definitions of proper nouns used in these general notes (i.e. Owner, Architect, Contractor, Work, etc.), refer to AIA Document A201-2007 General Conditions of the

1. All work and materials furnished shall comply with ALL applicable building codes, including, work. but not limited to The **State of Arkansas Regulations**, the regulations of the National Board of Fire Underwriters, National Fire Protective Association Requirements and all Federal, State, and Municipal authorities having jurisdiction over the work and the INTERNATIONAL **BUILDING CODE (IBC)- 2006.** 

2. Contractor is responsible for securing and obtaining all necessary permits, approvals, and inspections and paying all applicable fees for all Subcontractors.

requirements and shall include a hold harmless clause for the owner, building management, be true and level within a maximum tolerance of 1/8" overall throughout the entire project.

approval. All controlled inspections are to be performed by licensed professionals and the attention of the Architect/Engineer prior to installation. cost of these services is to be paid by the contractor.

5. The submission of a proposal by the Contractor will be construed as evidence that a careful and thorough examination of the premises has been made and later claims for labor materials or equipment required or for difficulties encountered, which could have been foreseen had such an examination been made, will not be recognized. The submission of a Construction Documents to be saved for re-use. proposal by the Contractor shall also constitute a representation that the Contractor has responsibility or any deficiencies therein.

6. Before ordering any materials or doing any work, each Subcontractor shall verify all measurements at the building and shall be responsible for correctness of same. No extra charge or compensations will be allowed on account of any difference between actual dimensions and the measurements indicated on the drawings; any discrepancies between the drawings and field conditions which may be found shall be submitted to the Architect for consideration and clarification before proceeding with the work. The Contractor shall be responsible for any deviations from the Contract Documents.

7. All the Architect's drawings and construction notes are complimentary and what is called drawing shall be provided by the Contractor as shown on all drawings. Whenever an item is work is in progress. specified and/or shown on the drawings by detail or reference it shall be considered typical for other items which are obviously intended to be the same, even though not so designated 32. All plumbing and electrical work shall be performed by persons licensed in their trades. or specifically named but do serve the same function.

8. Full size or large scale details or drawings shall govern small scale drawings which they are intended to amplify. Details or conditions indicated for a portion of the work but not carried out fully for other portions shall apply throughout to all similar portions except as otherwise specifically noted. In every case a more expensive item or method shall be

9. The character and scope of the Work are illustrated by the Drawings. To interpret and to the Contractor when and as required by the Work. It is to be understood that the said

The contractor shall be responsible for coordination of work with other contractors. The as forming a part of this set.

10. The Contractor shall abide by and comply with the true intent and meaning of the drawings and notes taken as a whole and shall not avail himself or herself of any obvious the attention of the Architect before submission of a bid or proposal for explanation or correction of same. After the submission of proposal, the contractor will be held responsible for all such items.

11. The work to be performed consists of furnishing all labor, equipment, tools, transportation, supplies, fees, materials, and services in accordance with these General Notes and Construction Documents; and includes performing all operations necessary to construct and install complete, in satisfactory condition, the various materials and equipment at the locations shown within the Construction Documents. It is intended that the drawings C. Contractor shall protect and be responsible for the existing structure, facilities and the fact that every item necessarily involved may not be specifically mentioned or shown. Any property resulting directly or indirectly from the contractor's operation shall be promptly item which may be reasonably construed as incidental to the proper and satisfactory completion of the work in accordance with the intent of these notes and drawings is hereby

with all the requirements of these General Notes and Construction Documents.

signed authorization to proceed is returned to Contractor.

to the Contractor shall not be executed unless changes are accompanied by letter of authorization from the owner to proceed accordingly. In cases where instructions accompanying an issue of revised drawings or specifications request estimates of cost, such

15. Payment will not be made to the Contractor on changes or extras unless they are approved in writing by Owner or Owner's Representative.

16. The Project has been designed and detailed for the specific materials and equipment specified. No substitutions shall be made without the express written consent of the Architect. If the specified material is not available, the contractor shall propose an alternate material and polished condition. shall provide drawings, samples, specifications, manufacturer's literature, performance data, etc., in order that the Architect can evaluate the proposed substitution. If the substitution affects a correlated function, adjacent construction, or the work of any other contractor or trade, the necessary changes and modifications to the affected work shall be accomplished (v) do all other cleaning as required to turn the premises over to the owner in a spotless and by the contractor at no additional expense to the owner. No requests for substitutes will be entertained by the Architect due to contractor's failure to order materials in a timely manner.

17. All materials required for the performance of this work shall be new and of the best quality of the kinds specified. The use of old or second-hand materials is strictly forbidden, except for locations on the drawings that refer to removal and relocation of materials or equipment. All materials shall be used in accordance with the manufacturer's specifications. The Contractor shall submit all product warranties. The Contractor shall warranty all work as per state and/or local jurisdiction regulations. Upon request, the manufacturer's representative shall go to the site and instruct the mechanics in the use of the materials or shall supervise their use.

18. The standard specifications of the manufacturers approved for use in the project are hereby made a part of these notes with the same force and effect as though herein written out in full, except that wherever the drawings require heavier members, better quality materials or are otherwise more stringent, those more stringent requirements shall govern.

19. The Contractor shall submit all fabrication shop drawings, samples, and fixture cuts for shall not be constructed as an indication that the submittal is correct or suitable nor that work companies and building management as required. represented by submittal complies with the drawings, except as to the matters of finish, color, and other aesthetic matters. The duties noted above do not relieve the Contractor from responsibility to coordinate all trades and to check quantities and dimensions against conditions in the field. Contractors shall assume responsibility for all errors on their drawings. F. All machines, tools, service lines and conduits shall be shielded or barricaded to provide

20. The Contractor shall submit all shop drawings, complete with manufacturer's equipment cuts, for approval by the Architect prior to commencement of work.

21. When "approved equal", "equal to", or other general qualifying terms are used it shall be based upon the review and approval by the Owner or the Owner's Representative. No material substitutions shall be made without first informing the Owner. Submit substitute materials specifications and samples to the Architect for approval, in writing prior to commencement of

22. Any materials delivered or work performed, contrary to the drawings and specifications and approved shop drawings, shall be removed by the Contractor at his own expense. and the same shall be replaced with other materials or work satisfactory to the Architect. The Contractor shall also assume the cost of replacing the work which may be disturbed by the Contractor.

23. The Contractor shall be responsible for properly and accurately laying out the work and for the lines and measurements herein. The contractor shall establish necessary reference lines 3. Contractor must comply with all appropriate municipal and regulatory agencies, codes and and permanent bench marks from which building lines and elevation shall be taken. Heights of requirements. The contractor shall submit certificates of insurance in accordance with building all work called for "A.F.F." including but not limited to soffits, ceilings, doors, and hollow metal shall

24. All HVAC, plumbing, sprinkler and electrical lines are to be coordinated so that no conflicts 4. Contractor shall provide controlled inspections as required for the City Building Department occur. Any conflicts which result in a relocation of a finished surface must be brought to the

> 25. Unless otherwise noted, the Contractor shall provide a one-year warranty covering all work performed and equipment installed, from the time of Substantial Completion.

26. Contractor shall carefully remove and protect items indicated by the Owner or in the

checked and verified all quantities, work and materials involved and that he or she shall take 27. The Contractor shall keep the Architect informed of the progress of the Work. No work shall be closed or covered until it has been duly inspected and approved. Should uninspected work be covered the contractor shall, at their own expense, uncover all such work so that it can be properly inspected and after such inspection, shall properly be repaired and replaced.

28. All work shall be subject to final inspection by the Architect and acceptance by the Owner.

29. Contractor is responsible for the safety and protection of workers, public, and property. 30. A copy of the latest signed and sealed set of Construction Documents shall be kept at the job

for by either will be binding as if called for by all; any work shown or referred to on any one 31. The Contractor shall have a competent superintendent on the premises at all times when the

site for review by the Owner, the Owner's Representative, the Architect, or inspectors.

33. The Contractor shall coordinate their own work with the work of all other Contractors and Subcontractors, whether their own or those on separate contract. Prior to commencing work, the Contractor shall provide a work schedule to show estimated commencement and completion dates of each trade and also identifying long lead items. Contractor shall be responsible for giving all trades such information, plans or details as may be required for the assumed over a less expensive one and dimensions shall be figured rather than determined byproper installation of their work. All materials shall be ordered sufficiently ahead of time so that work can proceed on schedule. No substitution of materials will be accepted because of failure to do order material on time.

explain the Drawings, other information deemed necessary by the Architect will be furnished 34. The owner reserves the right to let other contacts in connection with the work of the project. additional drawings are to be of equal force as the original drawings, and shall be considered contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work.

35. The Contractor is responsible for the following conditions: A. The premises and the job site shall be maintained in a reasonably neat and orderly condition errors or omissions, should any exist. Should any error or discrepancy appear or any doubt and kept free from accumulations of waste materials and rubbish during the entire construction arise as to the true meaning of the drawings or notes, the contractor shall bring such items to period. Remove crates, cartons and other flammable waste materials or trash from the work areas at the end of each working day. Contractor to control cleaning to prevent dirt or dust from leaving the job site and infiltrating areas not involved in the project. No material or debris storage shall be permitted at the street or sidewalk at any time.

> B. Electrical closets, pipe and duct shafts chases, furred spaces and similar spaces shall be cleaned and left free from rubbish loose plaster, mortar drippings, extraneous construction materials, dirt and dust.

clude everything requisite and necessary to finish the entire work properly, notwithstanding improvements adjoining the area under this contract. Any disturbance or damage to adjoining restored, repaired or replaced to the satisfaction of the client at no additional cost.

D. Clean up immediately upon completion of each trade's work.

12. The contractor shall notify the Architect immediately if he cannot for any reason comply E. This cleaning includes the removal of trash and rubbish from these areas, broom cleaning of floors, the removal of any plaster, mortar, dust and other extraneous materials from finish surfaces, including but not limited to miscellaneous metal, woodwork, plaster, glass, gypsum 13. The contractor shall submit in writing all proposals for additional work to the Architect for drywall, masonry, concrete, mechanical and electrical equipment, piping ductwork, conduit, and review and approval. No additional work by the Contractor or its agents is to proceed until a surfaces visible after permanent fixtures, induction unit covers, grilles, registers, and other such fixtures or devices are in place.

14. Work affected by changes proposed in any revised drawings or other documents issued F. In addition to the cleaning specified above and the more specific cleaning which may be required in various sections of the specifications the premises shall be prepared for occupancy

estimates shall be prepared and submitted promptly to the owner in order not to affect the (i) a thorough cleaning throughout including washing or cleaning by other approved methods of all floors and surfaces on which dirt or dust has collected and by washing glass, removing all paint, foreign material, and stains thereon.

> (ii) providing and maintain adequate runner strips of non-staining reinforced kraft building paper on finished floors as required for protection.

(iii) leaving all fixtures and equipment in an undamaged, bright, clean,

(iv) clean and polish all hardware and all other metal work.

Subcontractor without exception. 37. The Contractor is Responsible for the following conditions related to safety of public and

36. The Owner reserves the right to accept or refuse any bids/proposals from any Contractor or

A. Institute and maintain safety measures and provide all equipment or temporary construction

B. Structures, devices, or construction equipment shall not be loaded in excess of their

C. Before using construction equipment or devices, same shall be inspected by the person superintending the work, and defects or unsafe conditions shall be promptly corrected before

the Architect's review as required and/or indicated on the drawings. The Architect's review D. Determine location, protect and safeguard all utilities on or adjacent to site. Notify all utility

E. Maintain fire preventive, sanitary and safety facilities.

necessary to safeguard all persons and property affected.

safety and prevent contact by the public.

G. No materials shall be dropped or thrown outside the exterior walls of the building.

H. Areas used by the public shall be maintained free from debris, equipment, materials

# **ABBREVIATIONS:**

### STANDARD ABBREVIATION NOTE:

Standard and common industry acceptable abbreviations have been used throughout these documents. Should there be any misunderstanding on any abbreviation contact the architect / engineer for clarifications.

PLAM Plastic Laminate **TEXT SYMBOLS** FLASH Flashing FOC Face of Concrete PLAS Plaster & And FOFFace of Finish PLBG Plumbing Angle FOSFace of Stud PLYWD Plywood PLNG Panelling FS Floor Sink Centerline FR (FRM) Frame **PNL** Panel Channel FT Foot or Feet **POLPolished** Diameter or Round # Number or Pound FTGFooting PR Pair PSF Per Square Foot FURR Furring Perpendicular or Structural FV Field Verify@ PSI Per Square Inch GA Gauge PREFAB Prefabricated Plus or Minus PSS Photostrobe Sync Place GALV Galvanized Square Foot (feet) GB Grab Bar PT Point PTD Painted GC General Contractor Times GEN General ACOUST Acoustical GFRC Glass Fiber Reinforced Concrete QTYQuantity AD Area Drain GL Glass R Riser or Radius ADH Adhesive GPM Gallons per minute ADJ Adjustable GR Guardrail RA Return Air AFF Above Finished Floor GWB Gypsum Board RCPReflected Ceiling Plan RD Roof Drain AHU Air Handling Unit (Re: Mech.) GYPGypsum Board RE Reference ALUM Aluminum HB Hose Bibb RECP Receptacle ALT Alternative AP Access Panel **HC Hollow Core** REF Refrigerator APPROX Approximate **HCPHandicapped** REFL Reflected HD Head APPD Approved REINF Reinforced ARCH Architectural HDW Hardware REQ'D Required HDWD Hardwood ASPH Asphalt RFGRoofing A/V Audio/Visual HDWR Hardware **REV** Revision HEWC Handicap Electric Water Cooler RM Room BEY Beyond HLAV Handicap Lavatory RO Rough Opening BD Board HM Hollow Metal RTURoof Top Unit (Re: Mech) HORIZ Horizontal BK Brick BLDG Building HR Handrail S South HT Height BLDK Blocking SANSanitary HYDHydrant SC Solid Core BM Beam SCHED Schedule BO By Others BOT Bottom (of) IC Intercom SECT Section ID Inside Diameter/Dimension BRG Bearing SF (SQ FT) Square Foot (Feet) BSMT Basement SH Shower IN Inch BTWN Between INDIV Individual SHTSheet SIM Similar BRKT Bracket INFO Information INSUL Insulation SMLS Seamless C CB Chalk Board INT Interior SP Spacing CC Center to Center SPEC Specification CG Corner Guard JAN Janitor SPHD Sprinkler Head CI Cast Iron JST Joist SPKR Speaker CIP Cast-In-Place JT Joint SPLKR Sprinkler CJ Control Joint SQ Square KIT Kitchen SS Stainless Steel CLG Ceiling CLO Closet KO Knockout STD Standard CMU Concrete Masonry Unit STL Steel CO Cleanout Long/Length STOStorage STRUCT Structure/Structural COL Column LAMLaminate COMB Combination LAV Lavatory SUSP Suspended LGTH Length CONC Concrete SY (SQYD) Square Yard(s) SYM Symmetrical CONN Connection LKR Locker CONSTR Construction LT Light (Lighting) SYS System CONT Continuous LWC Light Weight Concrete **CONTR** Contractor Tread CORR Corridor M Meter T&BTop and Bottom CSK Countersunk MAS Masonry T&GTongue and Groove CTR Center MAS BLK Masonry Block TEL Telephone MATL Material TEMP Tempered DBL Double MAX Maximum TOC Top of Concrete DCMU Decorative Concrete Masonry Unit MECH Mechanical TOD Top of Deck DEPT Department MFG Manufacturing TOM Top of Masonry DF Drinking Fountain MFR / MANUF Manufacturer TOPTop of Parapet DIA Diameter MH Manhole TERM Terminate TOSTop of Slab or Top of Steel DIAG Diagonal MI Mirror DIM Dimension MIN Minimum TOW Top of Wall TRANS Transformer MISC Miscellaneous DN Down DR Door MO Masonry Opening TS Tube Steel DS Down Spout MTD Mounted TV Television MTG HT Mounting Height DTL Detail TYP Typical DWG(S) Drawing(s) MTLMetal U Urinal MULL Mullion UNO Unless Noted Otherwise EA Each N North US Utility Shelf EJ Expansion Joint N/A Not Applicable VB (VPRBR) Vapor Barrier EL Elevation NIC Not in Contract ELEC Electrical NO Number VENT Ventillation VERT Vertical ELEV Elevator NOM Nominal NPSNational Pipe Standard ENG Electronic News Gathering VEST Vestibule EOS Edge of Slab NTSNot To Scale VTR Vent Thu Roof VCT Vinyl Composite Tile EQ Equal VWC Vinyl Wall Covering **EQUIP** Equipment OA Overall EWC Electric Water Cooler OC On Center EXH Exhaust OD Outside Diameter/Dimension W West or Wide or Width EXP Expansion OFFOffice WC Water Closet EXIST Existing OH Opposite Hand W/ With EXT Exterior OPNG Opening W/I Within OPPOpposite W/OWithout FA Fire Alarm ORD Overflow Roof Drain WD Wood FD Floor Drain OTSOpen to Structure WDW Window FND Foundation OH Overhead WF Wide Flange FE Fire Extinguisher OZ Ounce WGT Weight FEC Fire Extinguisher Cabinet WH Wall Hydrant FF Finished Floor PA Public Address WP Waterproof **PAR** Parallel FH Fire House WT Structural T Section FFE Furnishing, Fixtures and Equipment PART Partition WWF / WWM Weided Wire Fabric

# **SYMBOLS LEGEND:**

FHC Fire Hose cabinet

FVC Fire Valve Cabinet

FIXT Fixture

FIN Finish

FL Floor

(1t)	WINDOW TAG	Name Elevation	ELEVATION LEVEL
101	DOOR TAG	<u>_</u>	COLUMN GRID
Room name 150 SF	ROOM NAME		BUILING SECTION
A101	EXTERIOR ELEVATION	1/ A201 SIM	ENLARGED DETAIL
	NORTH ARROW	<u>A101</u>	CENTER LINE

PC Precast Concrete

PERP Perpendicular

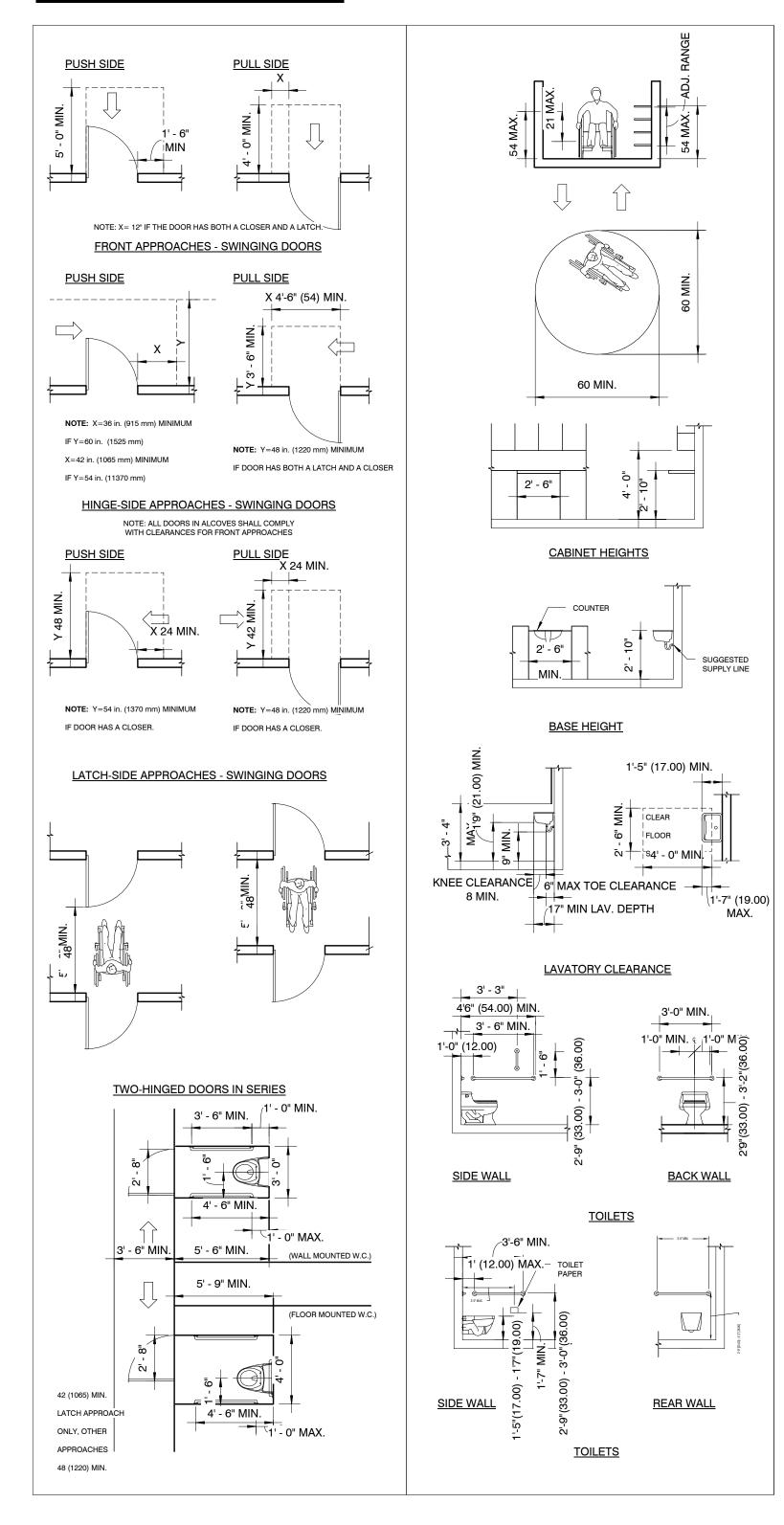
PL Property Line

PCPPortland Cement Plaster

X by (i.e. 2x4)

YD Yard

# **ACCESSIBILITY DIAGRAMS:**



# **ADA TITLE III REQUIREMENTS:**

The landlord and tenant have been made aware of the requirements under the American with Disabilities Act (ADA) Title III, Section 36.034 "Removal of Barriers".

A. General: A public accommodation shall remove architectural barriers in existing facilities, including communication barriers that are structural in nature, where such removal is readily achievable, i.e. easily accomplished and able to be carried out without much difficulty or expense.

1. Provide portion of hat and coat rack at 54" A.F.F. to centerline of shelf / rod (i.e. 2'-0" min. in length).

2. Building must have an accessible route from sidewalk to main entry. 3. Building must have an accessible main entry.

4. Building must have an accessible passenger elevator.

5. Building must have accessible public toilet rooms.

6. If parking is provided for tenants, accessible parking spaces shall be provided to comply with Section #4.6.1 of ADAAG.



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

**MARCH 9, 2015** 

ARCHITECT **Hufft Projects** 

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**CIVIL ENGINEER:** Crafton Tull

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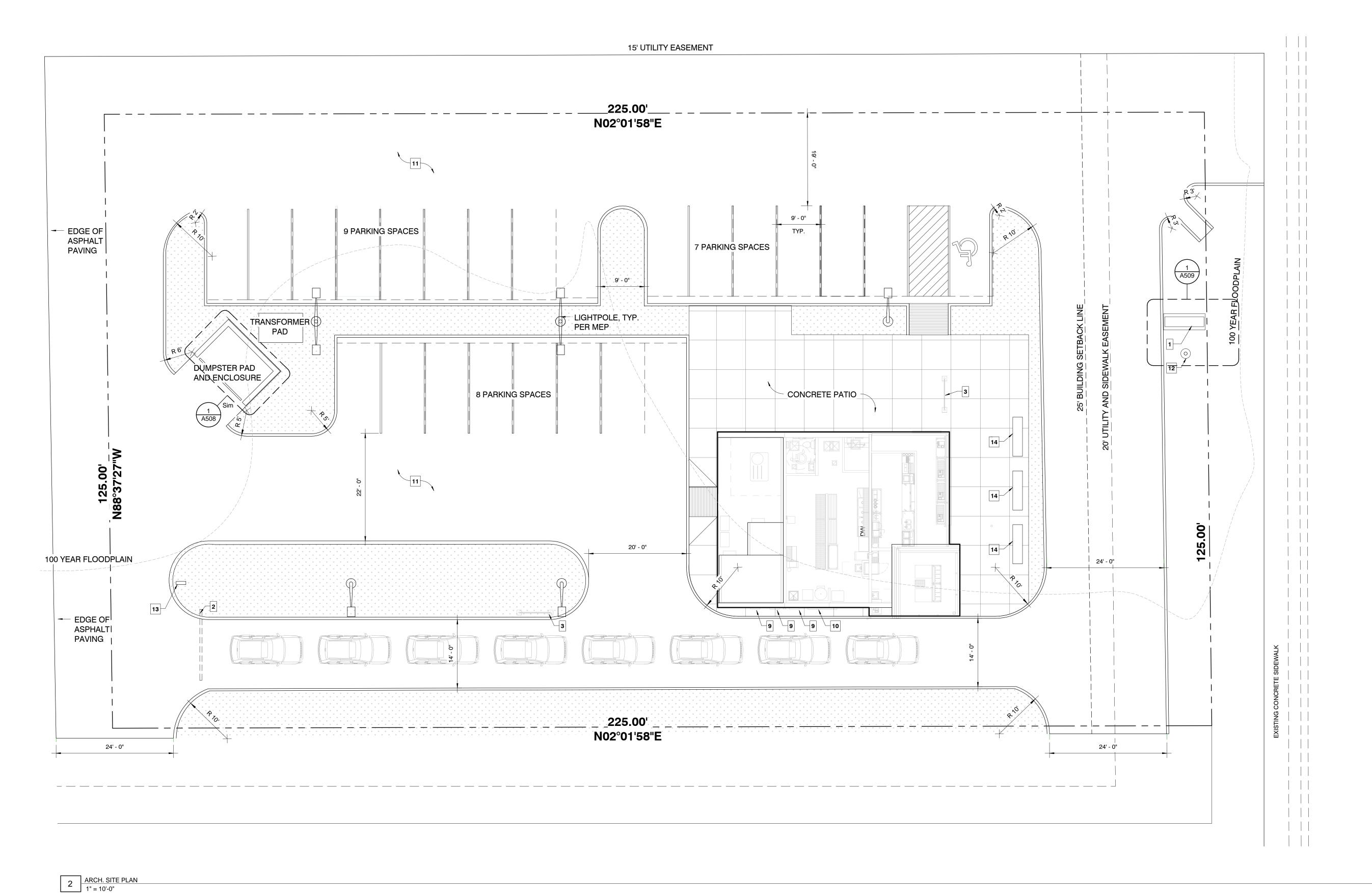
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Project Number: 236 KS License Number:



NOTES



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**SITE DATA:** 

**VEHICLE DATA:** 

TOTAL SITE AREA: 28,053 S.F. TOTAL PARKING: 24 [23+1 ADA] GROSS BUIILDING AREA: 1,462 SF TOTAL CARS IN QUEUE: 11 NUMBER OF FLOORS: 1

# **SITE PLAN KEYED NOTES:**

- 1. ANDY'S FROZEN CUSTARD MONUMENT SIGN
- 2. DRIVE THRU CLEARANCE INDICATION BAR 8'-10"
- MENU BOARD 4. OUTDOOR PATIO BELOW ROOF CANOPY
- 5. ACCESSIBLE CURB RAMP WITH DETECTABLE WARNING 6. REFUSE AND RECYLING ENCLOSURE 7. ACCESSIBLE PARKING STALL SIGNAGE
- 8. ANDY'S DIRECTIONAL SIGNAGE
- 9. 24" x 36" POSTER SIGN 10. 72" x 36" IDENTITY SIGN 11. CONCRETE PARKING LOT
- 12. 40' FLAGPOLE W/ UPLIGHTING 13. DIRECTIONAL SIGNAGE FOR DRIVE-THRU 14. FIXED BENCHES

NOTE:

COORDINATE SITE DETAILS INDICATED ON THIS SHEET, A101, WITH ALL CIVIL DRAWINGS. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION NOT INDICATED HERE AND NOTIFY ARCHITECT OF AND DISCREPENCIES.



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

**MARCH 9, 2015** 

ARCHITECT **Hufft Projects** 

3612 Karnes Blvd., Kansas City, MO 64111 P: 816-531-0200 / F: 816-531-0201 www.hufft.com

**CIVIL ENGINEER: Crafton Tull** 

P.O. Box 10189 Russellville, AR 72812 P: 479-498-8236 www.craftontull.com

STRUCTURAL ENGINEER:

Mettemeyer Engineering, Inc. 2101 W. Chesterfield Blvd., B-105, Springfield, MO 65807 P: 417-890-8002 / F: 417-890-8003

M.E.P. ENGINEER: M.F.E.C., Inc.

3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

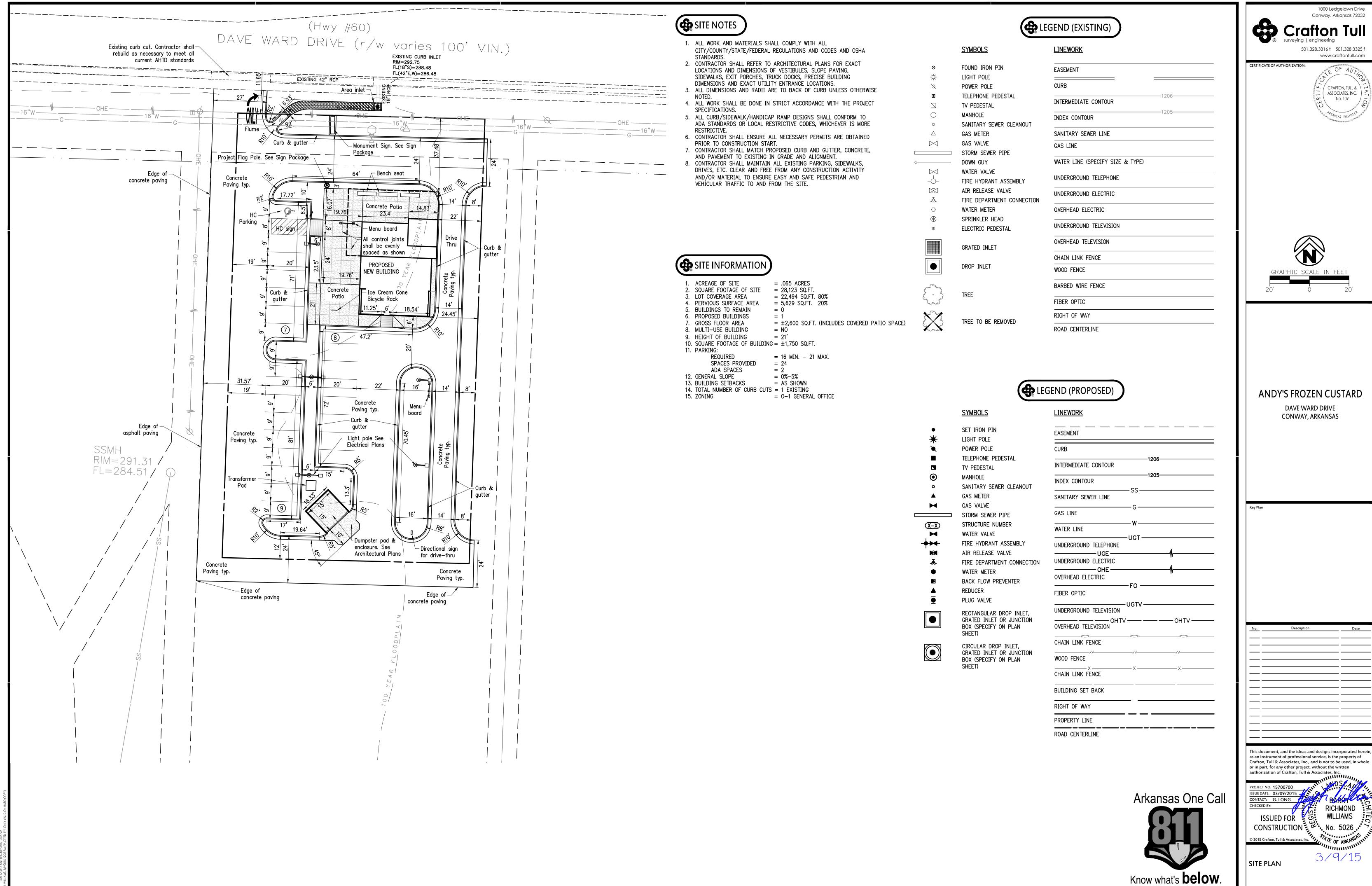
REVISION SCHEDULE

This drawing has been prepared under the architect's supervision. The architect disclaims any responsibility for the existing building structure, existing site conditions, existing construction elements, and any drawings or documents used for this project that are not signed and sealed by the architect. The information herein is of propietary nature and is submitted in confidence for the use of our clients only. Unauthorized reproduction, distribution, or dissemination, in whole or in part is prohibited. The information contained herein is and remains the property of Hufft Projects LLC and receipt or possesion of this information confers no right in or license to disclose to others the subject matter contained herein for any but awatthew Hufftoses. All rights reserved. Copyright © 2014

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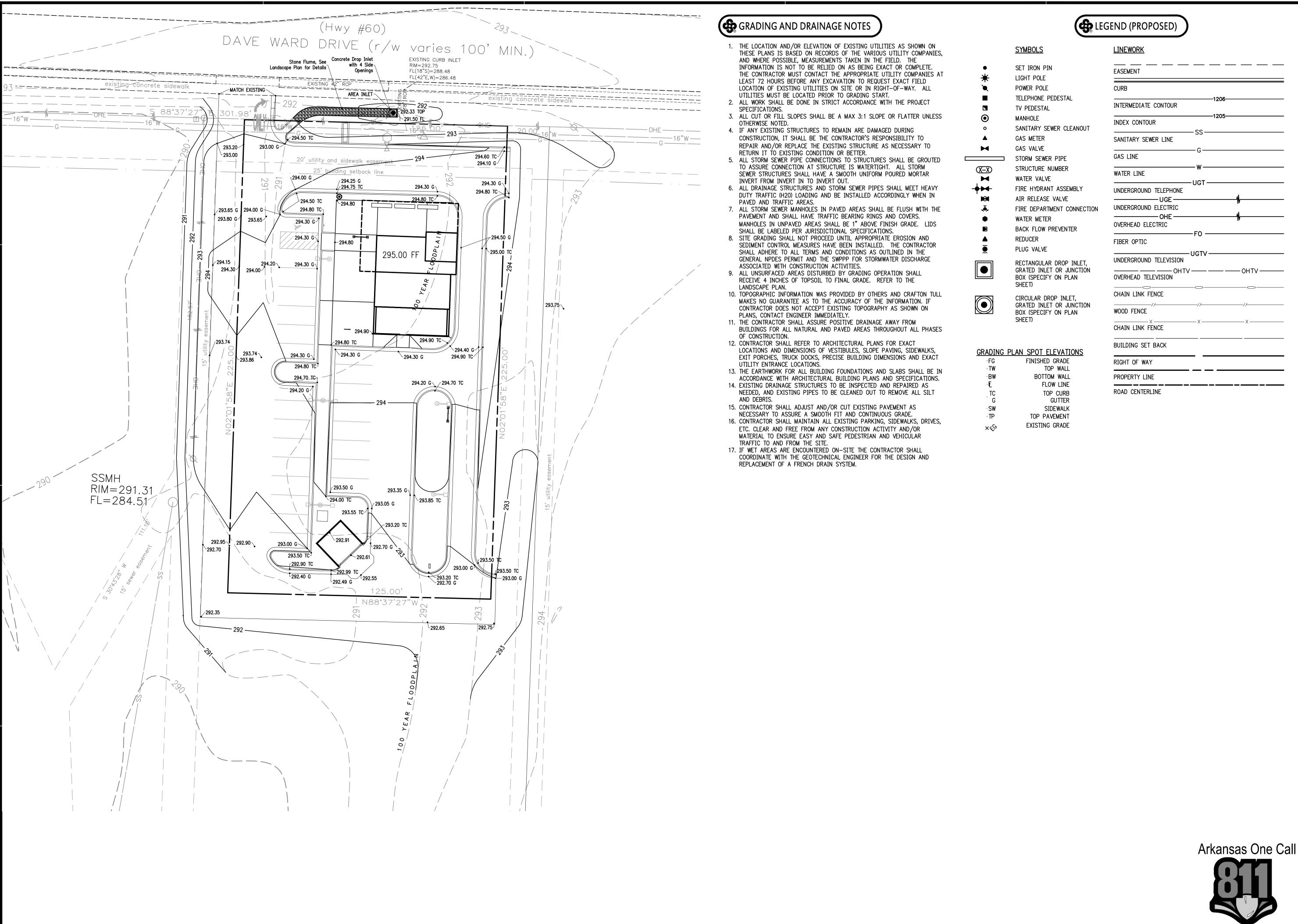


ARCHITECTURAL SITE PLAN



1000 Ledgelawn Drive

Call before you dig. C-101



	SYMBOLS	LINEWORK	
•	SET IRON PIN	EASEMENT	
* ``	LIGHT POLE POWER POLE	CURB	
	TELEPHONE PEDESTAL TV PEDESTAL	INTERMEDIATE CONTOUR	—1206————
•	MANHOLE	INDEX CONTOUR	—1205————
<b>⋄</b>	SANITARY SEWER CLEANOUT GAS METER	SANITARY SEWER LINE	
<b>H</b>	GAS VALVE  STORM SEWER PIPE	GAS LINE	
<u>(X−X)</u>	STRUCTURE NUMBER WATER VALVE	WATER LINE	
<b>→</b>	FIRE HYDRANT ASSEMBLY	UNDERGROUND TELEPHONE	
<b>181</b> .₹.	AIR RELEASE VALVE FIRE DEPARTMENT CONNECTION	UNDERGROUND ELECTRIC	
	WATER METER BACK FLOW PREVENTER	OVERHEAD ELECTRIC FO -	•
<b>≜</b> <b>=</b>	REDUCER PLUG VALVE	FIBER OPTIC	
<u>-</u>	RECTANGULAR DROP INLET,	UNDERGROUND TELEVISION	
	GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	OVERHEAD TELEVISION	———— OHTV———
	CIRCULAR DROP INLET,	CHAIN LINK FENCE	<u> </u>
	GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	WOOD FENCE	
	GILL II	CHAIN LINK FENCE	x
GRADING	PLAN SPOT ELEVATIONS	BUILDING SET BACK	
	FINISHED GRADE	RICHT OF WAY	

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ANDY'S FROZEN CUSTARD DAVE WARD DRIVE

CONWAY, ARKANSAS

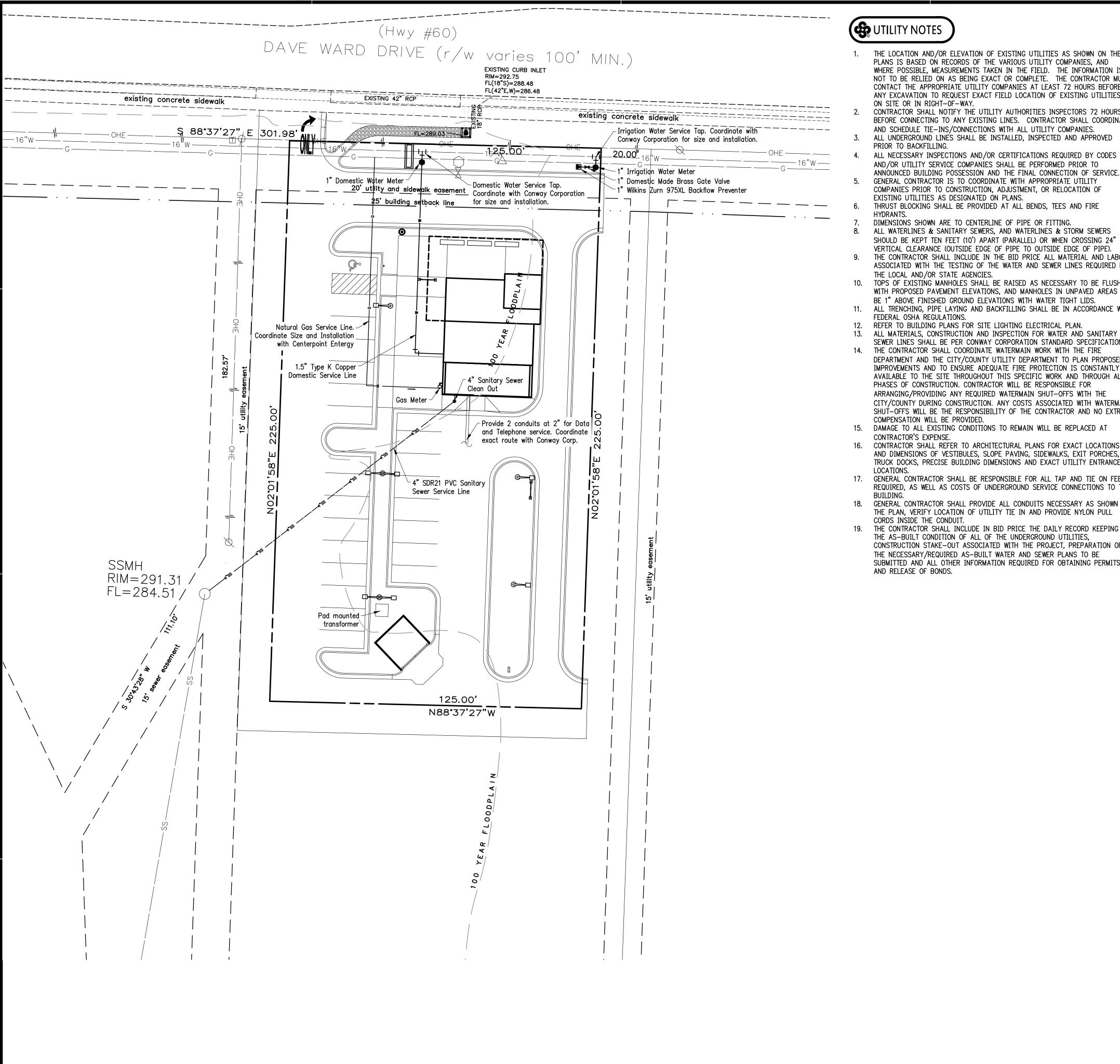
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**CONSTRUCTION** 

GRADING PLAN

Know what's **below**.

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UTILITY NOTES

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 CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES ON SITE OR IN RIGHT-OF-WAY.

CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINES. CONTRACTOR SHALL COORDINATE AND SCHEDULE TIE-INS/CONNECTIONS WITH ALL UTILITY COMPANIES. ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED

PRIOR TO BACKFILLING. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO

ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF

EXISTING UTILITIES AS DESIGNATED ON PLANS. THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS, TEES AND FIRE

DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.

ALL WATERLINES & SANITARY SEWERS, AND WATERLINES & STORM SEWERS SHOULD BE KEPT TEN FEET (10') APART (PARALLEL) OR WHEN CROSSING 24"

VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE). THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES REQUIRED BY THE LOCAL AND/OR STATE AGENCIES.

10. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND MANHOLES IN UNPAVED AREAS TO

BE 1" ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS. 11. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.

REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.

SEWER LINES SHALL BE PER CONWAY CORPORATION STANDARD SPECIFICATIONS. 14. THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPARTMENT AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT-OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

15. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

16. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE

17. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COSTS OF UNDERGROUND SERVICE CONNECTIONS TO THE

18. GENERAL CONTRACTOR SHALL PROVIDE ALL CONDUITS NECESSARY AS SHOWN ON THE PLAN, VERIFY LOCATION OF UTILITY TIE IN AND PROVIDE NYLON PULL CORDS INSIDE THE CONDUIT.

19. THE CONTRACTOR SHALL INCLUDE IN BID PRICE THE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKE-OUT ASSOCIATED WITH THE PROJECT, PREPARATION OF THE NECESSARY/REQUIRED AS-BUILT WATER AND SEWER PLANS TO BE SUBMITTED AND ALL OTHER INFORMATION REQUIRED FOR OBTAINING PERMITS AND RELEASE OF BONDS.

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		(1.11.0.1.0	<u> </u>

	SYMBOLS	LINEWORK
•	SET IRON PIN LIGHT POLE	EASEMENT
<u>~</u>	POWER POLE	CURB
	TELEPHONE PEDESTAL TV PEDESTAL	INTERMEDIATE CONTOUR
<ul><li>•</li></ul>	MANHOLE SANITARY SEWER CLEANOUT	INDEX CONTOUR 4"SS 4"SS 4"SS
<b>▲</b>	GAS METER GAS VALVE	SANITARY SEWER LINE
(X-X)	STORM SEWER PIPE STRUCTURE NUMBER	GAS LINE
<b>M</b>	WATER VALVE FIRE HYDRANT ASSEMBLY	WATER LINE
101 101	AIR RELEASE VALVE	UNDERGROUND TELEPHONE
•	FIRE DEPARTMENT CONNECTION WATER METER	OVERHEAD ELECTRIC
<b>₽</b>	BACK FLOW PREVENTER REDUCER	FIBER OPTIC
•	PLUG VALVE RECTANGULAR DROP INLET,	UNDERGROUND TELEVISION
	GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	OVERHEAD TELEVISION
	CIRCULAR DROP INLET, GRATED INLET OR JUNCTION	CHAIN LINK FENCE
	BOX (SPECIFY ON PLAN SHEET)	WOOD FENCE × × × × × ×

BUILDING SET BACK

RIGHT OF WAY

PROPERTY LINE

ROAD CENTERLINE

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_	THE SPRANS AS ENGINEER MINING
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_	
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_	
_	
_	GRAPHIC SCALE IN FEET  20' 0 20'
_	
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ANDY'S FROZEN CUSTARD DAVE WARD DRIVE

CONWAY, ARKANSAS

1000 Ledgelawn Drive Conway, Arkansas 72032

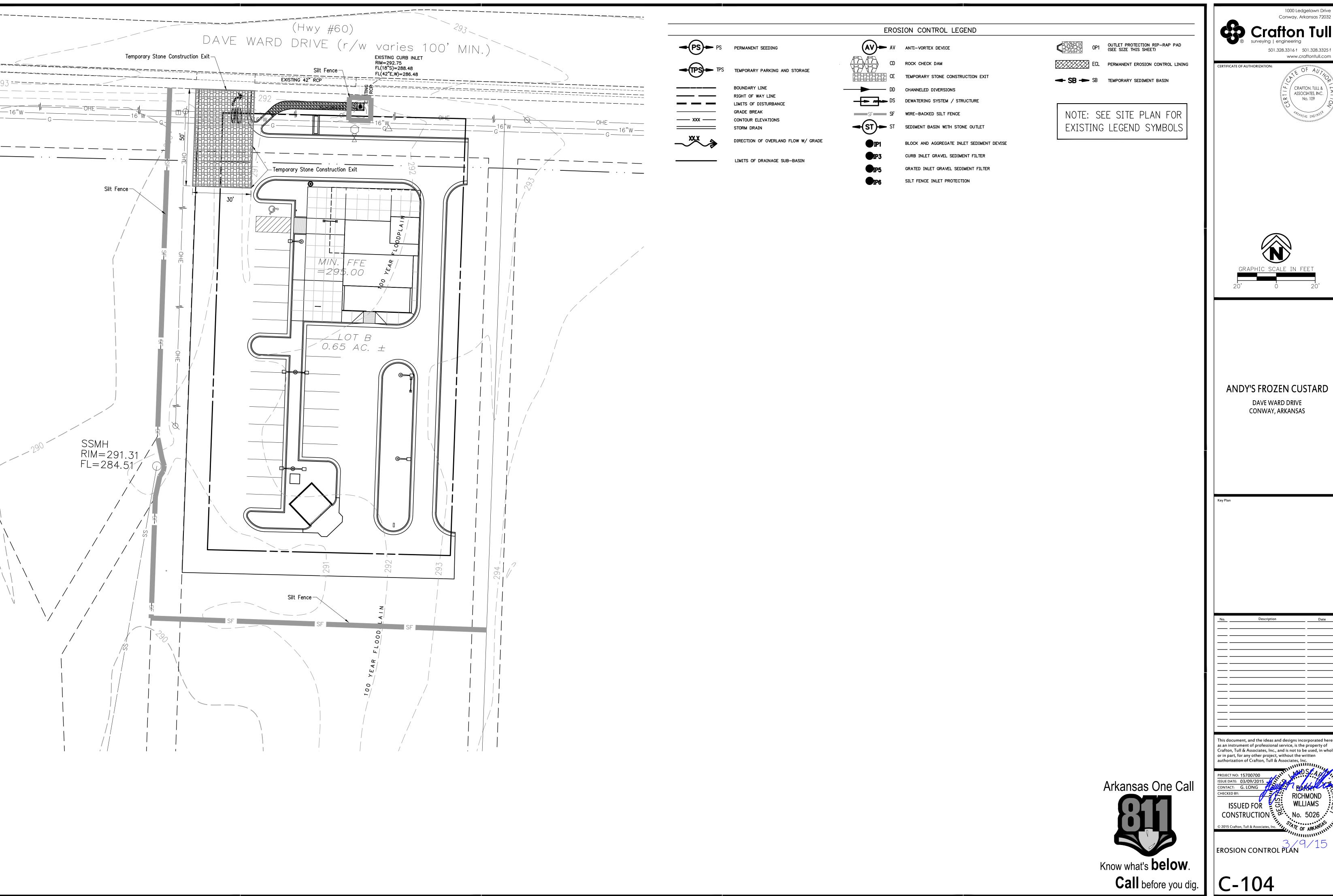
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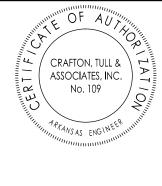
UTILITY PLAN

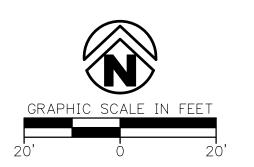
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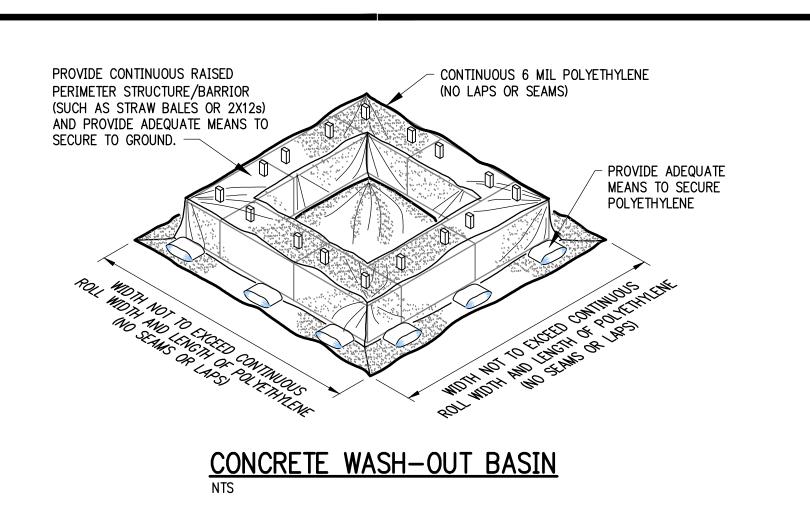


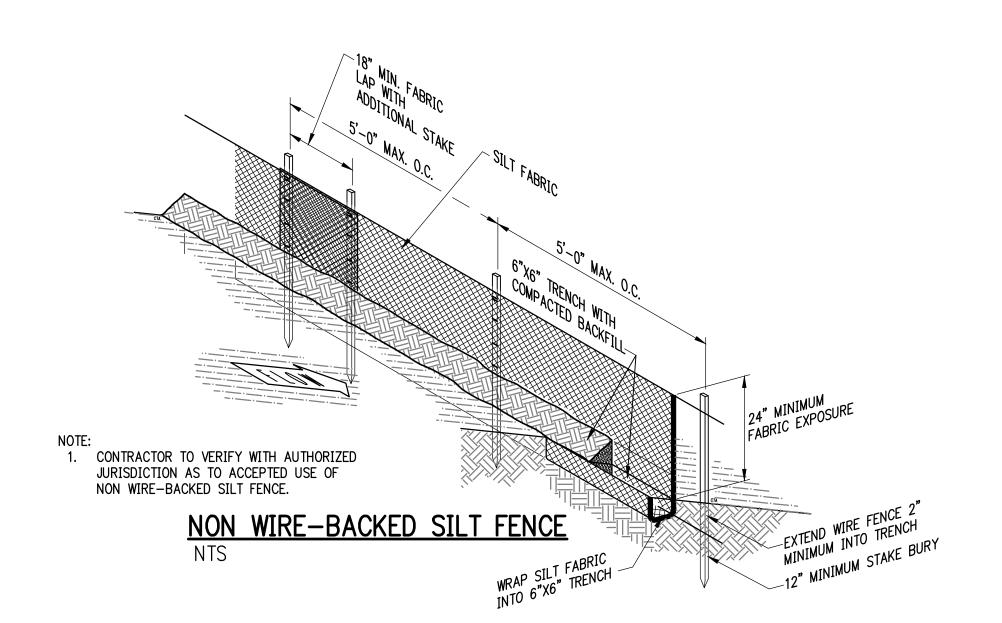


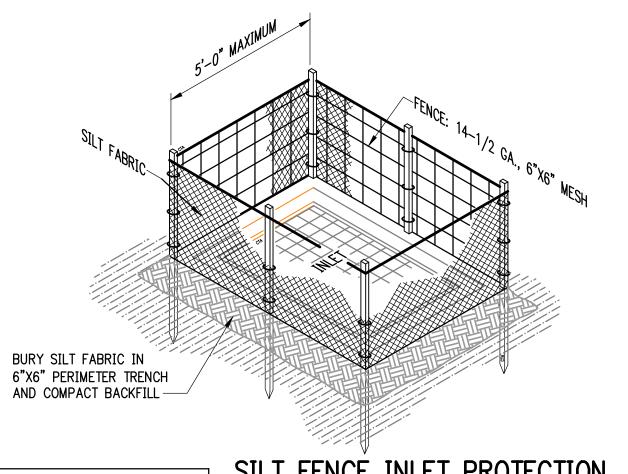
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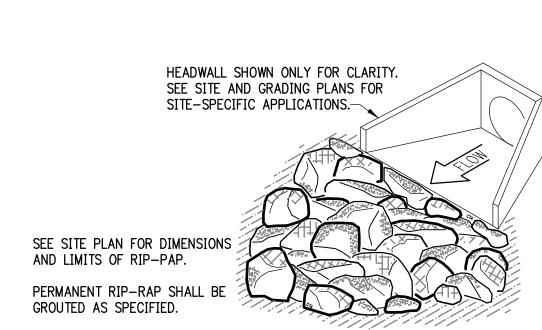
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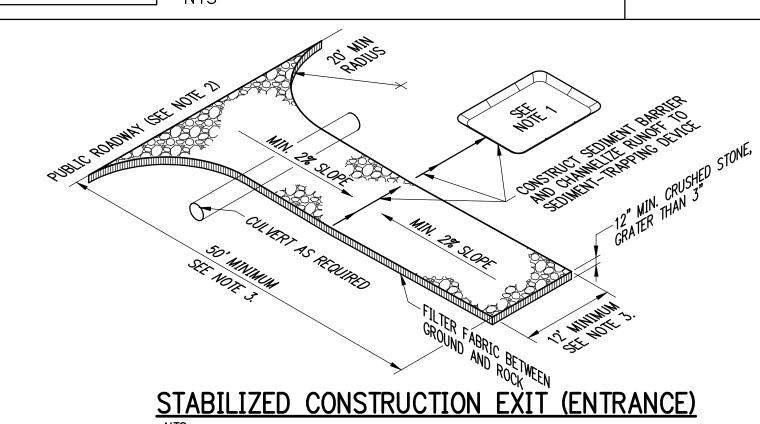


SILT FENCE INLET PROTECTION SILT FABRIC SHALL BE SECURITY FASTENED TO WIRE FENCING.



STONES SHALL CONSIST OF FIELD STONE OR ROUGH, UNHEWN QUARRY STONE AS NEARLY UNIFORM IN SIZE AS PRACTICAL. STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF WIND AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE INTENDED USE. ALL STONES SHALL WEIGH BETWEEN 50-150 POUNDS EACH AND AT LEAST 60% OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH.

RIP-RAP SLOPE PROTECTION



IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.

ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

LENGTH AND WIDTH TO SUIT SITE, CONSTRUCTION TRAFFIC AND EFFECTIVENESS.

# PERMANENT SEEDING

TEMPORARY PARKING AND STORAGE

BOUNDARY LINE

RIGHT OF WAY LINE LIMITS OF DISTURBANCE CONTOUR ELEVATIONS

STORM DRAIN DIRECTION OF OVERLAND FLOW W/ GRADE

LIMITS OF DRAINAGE SUB-BASIN

\_\_\_\_\_SF\_\_\_\_\_SF

ANTI-VORTEX DEVICE CD ROCK CHECK DAM

CHANNELED DIVERSIONS

TEMPORARY STONE CONSTRUCTION EXIT

DEWATERING SYSTEM / STRUCTURE

CURB INLET GRAVEL SEDIMENT FILTER

SILT FENCE INLET PROTECTION

GRATED INLET GRAVEL SEDIMENT FILTER

EROSION CONTROL LEGEND

OUTLET PROTECTION RIP-RAP PAD



SB SB TEMPORARY SEDIMENT BASIN

NOTE: SEE SITE PLAN FOR EXISTING LEGEND SYMBOLS

WIRE-BACKED SILT FENCE SEDIMENT BASIN WITH STONE OUTLET BLOCK AND AGGREGATE INLET SEDIMENT DEVISE

# PHASE I

INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS. PREPARE TEMPORARY PARKING AND STORAGE AREAS. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

CONSTRUCT THE SILT FENCES ON THE SITE

CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEER CONSULTANT TO PERFORM INSPECTION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTRURBING

CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION. CLEAR AND GRUB THE SITE. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.

8. BEGIN GRADING THE SITE.

# **GENERAL EROSION NOTES:**

BEST MANAGEMENT PRACTICES (BMP) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AND APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

GENERAL CONTRACTOR SHALL DENOTE THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, AND AREA FOR PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES.

ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

E. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.

F. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM-BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS

G. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING

BLOWN OR WASHED OFF-SITE. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS POSSIBLE.

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 21 DAYS SHALL BE TEMPORARY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

K. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

M. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF

ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH THE GENERAL PERMIT.

O. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.

Q. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

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SSUE DATE: 03/09/2015 ONTACT: G. LONG **ISSUED FOR** CONSTRUCTION

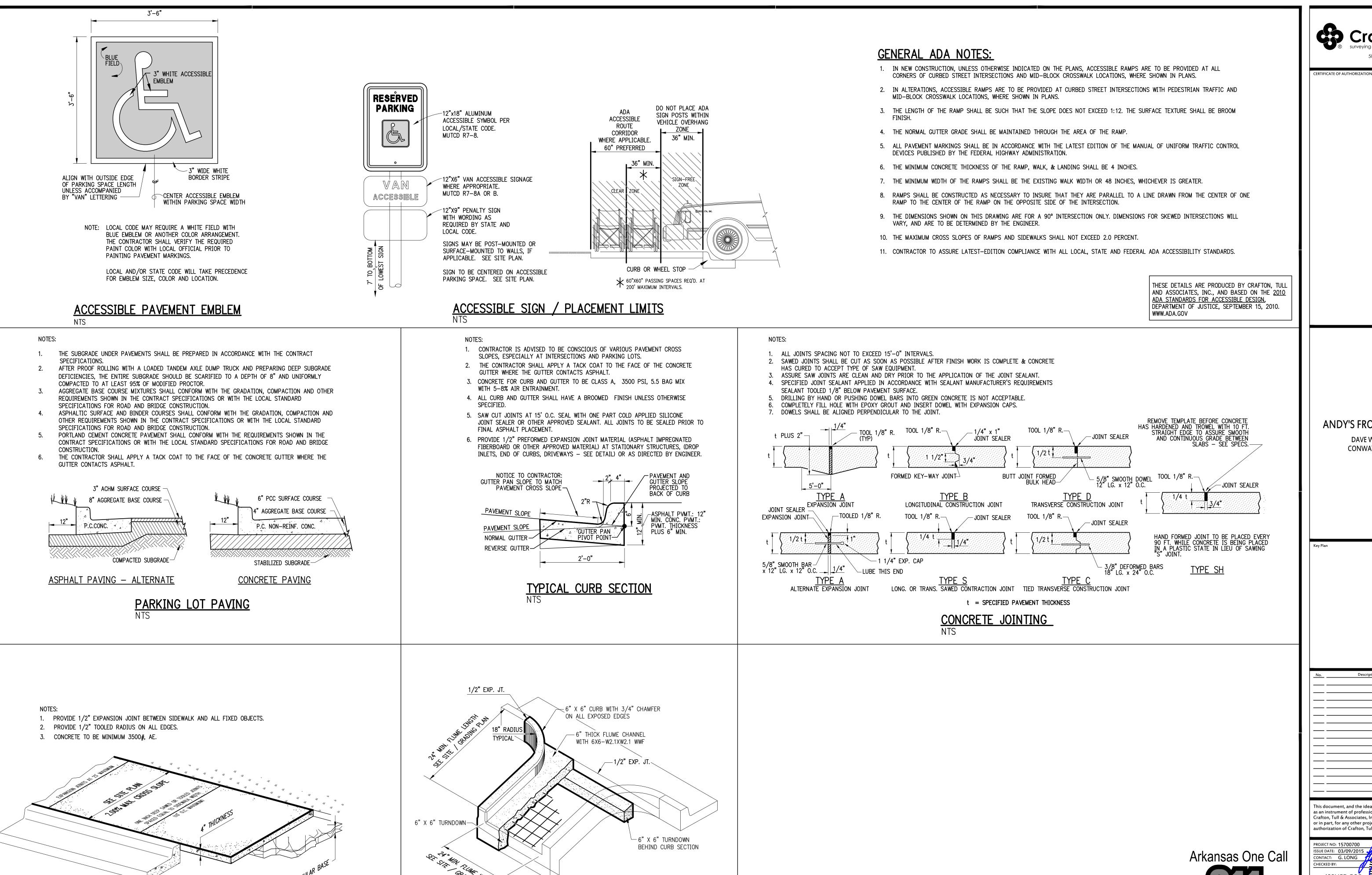
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RICHMOND WILLIAMS

EROSION CONTROL DETAILS

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CONCRETE FLUME

SIDEWALK WITH CURB

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PROJECT NO: 15700700

ISSUE DATE: 03/09/2015

CONTACT: G. LONG

CHECKED BY:

RICHMOND

WILLIAMS

CONSTRUCTION

No. 5026

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SITE CONSTRUCTION DETAILS

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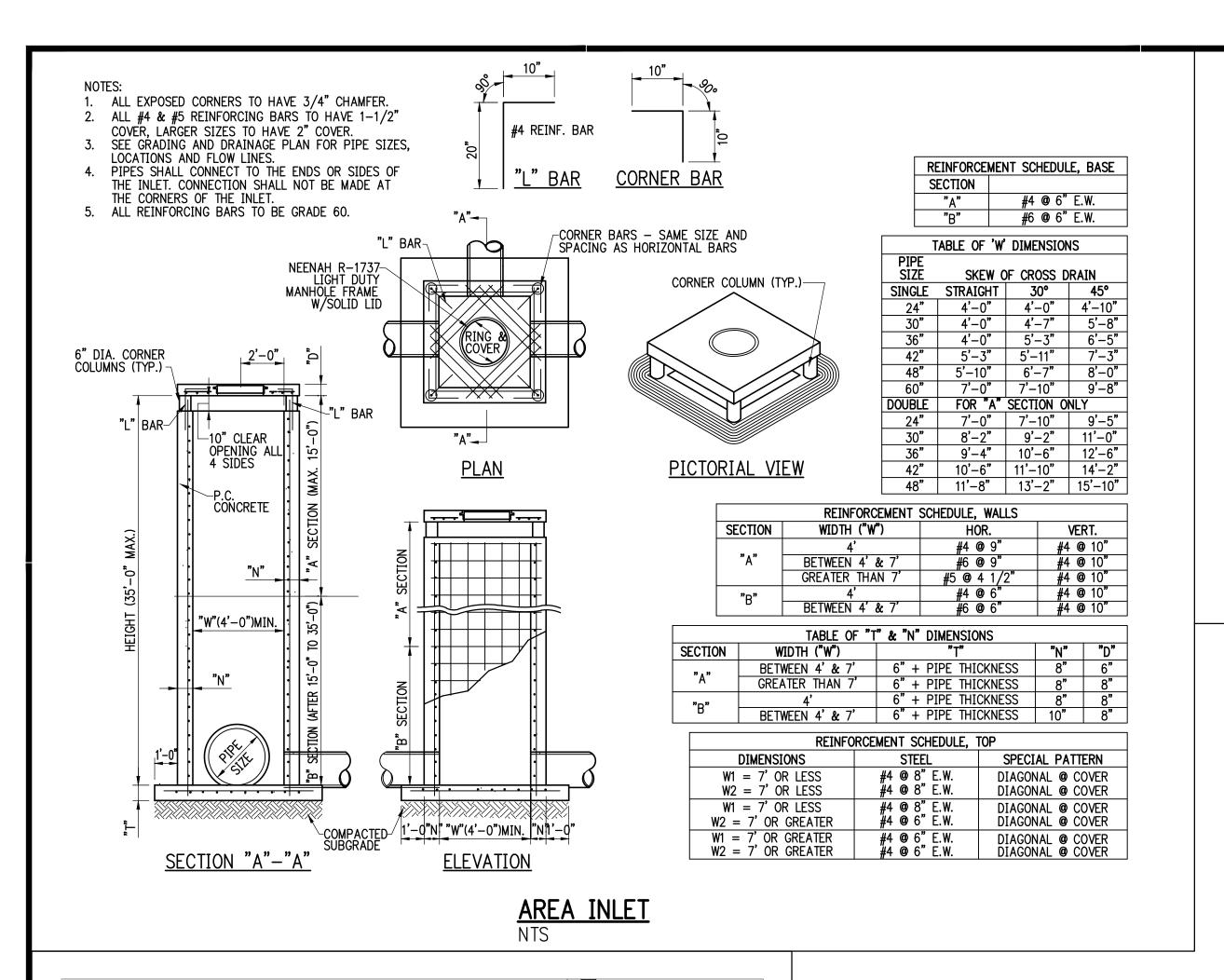
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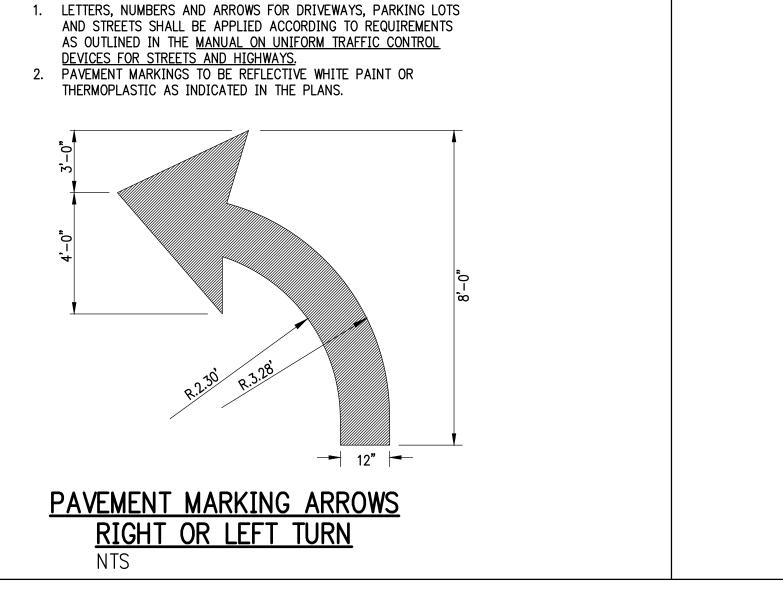
DAVE WARD DRIVE

CONWAY, ARKANSAS

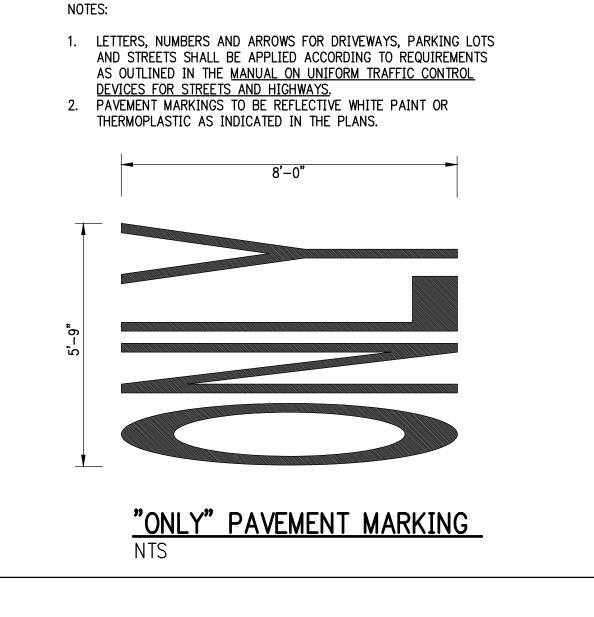
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NOTES:





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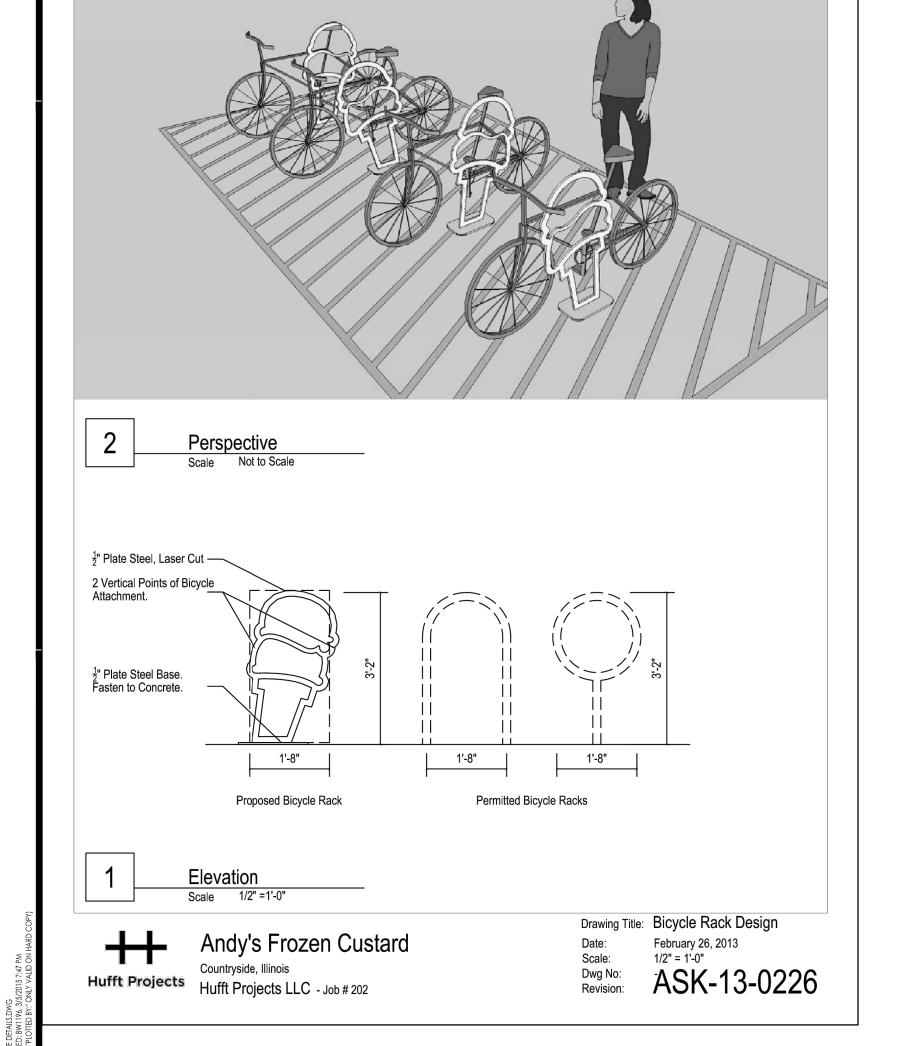
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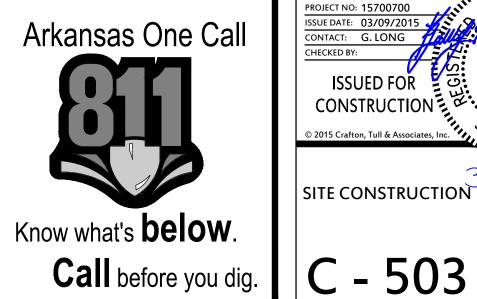
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ISSUE DATE: 03/09/2015 CONSTRUCTION

SITE CONSTRUCTION DETAILS 15





# SPECIAL CONDITIONS, REQUIREMENTS AND NOTES TO OWNER, DEVELOPER AND CONTRACTOR:

CONTRACTOR, BUILDER AND SUBCONTRACTORS INVOLVED IN ANY FORM OF CONSTRUCTION USING THESE DOCUMENTS SHALL BE INFORMED OF THE FOLLOWING RESPONSIBILITIES. PERFORMANCE CRITERIA, LIMITATIONS AND RISKS ASSOCIATED WITH CONSTRUCTION. IF THE OWNER, DEVELOPER OR CONTRACTOR IS NOT ABLE TO ACCEPT THE RESPONSIBILITIES OR PERFORMANCE CRITERIA AND LIMITATIONS, NOTIFY OUR OFFICE PRIOR TO START OF CONSTRUCTION. IT SHALL BE EXPRESSLY UNDERSTOOD THAT THE ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE LACK OF PERFORMANCE OF MATERIALS, SYSTEMS OR DESIGNS NOT BEING LIMITED TO ITEMS OUTLINED BELOW. CONTRACTORS AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL CONDITIONS AND RESPONSIBILITIES STATED IN THESE NOTES, PLANS, SECTIONS AND DETAILS, AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION OF ANY CONDITIONS OR RESPONSIBILITIES WHICH ARE NOT ACCEPTABLE OR NOT UNDERSTOOD.

1. PLAIN CONCRETE, REINFORCED CONCRETE, OR CONCRETE MASONRY DEVELOPS CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE, CREEP AND RESTRAINING EFFECTS. CRACKS ARE NORMALLY COSMETIC AND THE SYSTEM MAINTAINS SERVICEABILITY AND STRENGTH REQUIREMENTS. JOINTS MAY BE INDICATED TO CONTROL CRACKING, BUT ARE NOT MEANT TO ELIMINATE ALL CRACKING, AS THIS IS NOT PRACTICAL. THE CONTRACTOR SHALL USE ALL STANDARD MEANS TO INSURE PROPER PROTECTION AND CURING OF ALL CEMENTITIOUS MATERIALS TO REDUCE CRACKING, SURFACE SPALLING OR EXTREME CRACKING MAY BE CAUSED BY POOR MATERIAL OR PLACEMENT. CONTACT OUR OFFICE FOR POSSIBLE REPAIR REQUIREMENTS.

2. FOUNDATION SETTLEMENT MAY CAUSE DISTORTION AND DISTRESS TO THE SUPPORTED STRUCTURE AS WELL AS ADJACENT UTILITIES, SLABS OR FOUNDATIONS. THE SOIL REPORT MAY INDICATE A LEVEL OF DISPLACEMENT. ATTENTION TO PROPER SOIL PREPARATION AND GRADING, AS WELL AS PROPER DRAINAGE AWAY FROM STRUCTURE IS ESSENTIAL IN REDUCING EXPECTED SETTLEMENT.

3. VARIATION IN DIMENSIONS MAY OCCUR AS A RESULT OF THERMAL INFLUENCES, NATURAL DEFLECTIONS AND/OR CAMBERS OF MEMBERS. AS A RESULT, QUANTITIES MAY VARY AND ARCHITECTURAL FINISHES MAY BE AT RISK OF COSMETIC VARIATION OR DAMAGE.

4. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION. ADDITIONS AND ALTERATIONS MAY BE MADE BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.

5. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR, SUBCONTRACTOR AND/OR WORKPERSONS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS. IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL WORK EXPLICITLY SHOWN.

6. CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

7. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE, SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION OR VARIATION NOT REPORTED BEFORE THE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

11. TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

12. ALL OPENINGS ARE NOT SHOWN ON THESE DRAWINGS. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPENINGS MAY REQUIRE ADDITIONAL REINFORCING OR SUPPORTS AS SHOWN ON TYPICAL DETAILS. IF TYPICAL DETAILS FOR ALL CONDITIONS ARE NOT INCLUDED HEREIN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST IN WRITING ADDITIONAL INFORMATION.

13. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING OFFICIALS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY OR, THE BUILDING DEPARTMENT. INSPECTION REQUIREMENTS STATED HEREIN ARE PARTIAL. COMPLETE INSPECTION REQUIREMENTS SHALL BE AS DIRECTED BY THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

14. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW 5 WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE

ENGINEER'S RECORDS.

### FOUNDATIONS:

# 1. GEOTECHNICAL REPORT: PENDING

2. THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO PROVIDE SOIL TESTING AND REVIEW DURING CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE THE FOUNDATION REQUIREMENTS OF THE CONTRACT DOCUMENTS. IF CONDITIONS VARY FROM THAT INDICATED HEREIN, THEN THE GEOTECHNICAL ENGINEER SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FOUNDATION CONSTRUCTION.

3. THE BACKFILL SHALL BE PLACED AND COMPACTED ON EACH SIDE OF FOUNDATION WALLS SUCH THAT NO UNBALANCED LATERAL LOADS ARE INDUCED TO THE WALL.

4. BACKFILL SHALL BE PLACED EVENLY AGAINST EACH SIDE OF SUBGRADE STRUCTURAL ELEMENTS TO PRODUCE APPROXIMATELY EQUAL AND OPPOSITE LATERAL PRESSURES.

I. TYPICAL CONCRETE SLAB ON GRADE SHALL BE 4" THICK WITH 6x6-W1.4xW1.4 WWR OVER 10-MIL VAPOR BARRIER.

2. SLAB-ON-GRADE SUPPORT: 4 INCH LAYER OF GRANULAR BASE CONSISTING OF AN OPEN GRADED CRUSHED STONE (ASTM C33 OR SIMILAR), OR AS DIRECTED IN GEOTECHNICAL

3. CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON SELECT FILL MATERIAL AS NOTED ABOVE. FILL MATERIAL SHOULD BE MOISTENED, BUT NOT SATURATED JUST PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO AS NOT TO DISTURB FILL MATERIAL OR REINFORCING. THE FILL MATERIAL SHALL BE COMPACTED TO NO LESS THAN 95% COMPACTION @ MOISTURE CONTENT RANGE OF 3% BELOW TO 3% ABOVE OPTIMUM MOISTURE CONTENT BEFORE PLACEMENT OF SLABS.

### SHALLOW SPREAD FOOTINGS

1. FROST DEPTH IS 24 INCHES BELOW GRADE.

REPORT (SEE ABOVE FOR INFO).

2. ASSUMED FOOTING BEARING IS 2000 PSF. (CONTRACTOR TO VERIFY BEARING PRESSURE WITH GEOTECHNICAL ENGINEER PRIOR TO CASTING FOOTINGS)

3. ALL FOOTINGS SHALL EXTEND TO DEPTH NOTED ABOVE U.N.O. ON PLANS OR DETAIL. GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS, AND LOWEST ADJACENT COMPACTED SUBGRADE (PAD GRADE BEFORE LANDSCAPING) OR NATURAL GRADE WITHIN 5 FEET OF BUILDING FOR PERIMETER FOOTINGS. GRADE IS DEFINED AS TOP OF EXTERIOR PAVING OR CONCRETE WHERE EXTERIOR PAVING OR CONCRETE IS PERMANENTLY LOCATED DIRECTLY ADJACENT TO BUILDING AND EXTENDS AT LEAST 5 FEET FROM BUILDING. FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE FROM LOOSE DEBRIS, STANDING WATER, OR UNCOMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

4. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING

5. SITE PREPARATION AND GRADING REQUIREMENTS OF THE GEOTECHNICAL REPORT AND ANY ADDENDA SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

### CONCRETE

CONCRETE AGGREGATES.

1. MINIMUM 28 DAY STRENGTH (fc) SHALL BE AS FOLLOWS: - FOUNDATIONS 4000 PSI, W/C = 0.45 BY WEIGHT (AIR-ENTRAINED) - INTERIOR SLABS ON GROUND 4000 PSI, W/C = 0.50 BY WEIGHT - OTHER EXPOSED CONCRETE 4000 PSI, W/C = 0.45 BY WEIGHT (AIR-ENTRAINED)

2. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER.

3. ALL CONCRETE SHALL BE REGULAR WEIGHT OF 145 POUNDS PER CUBIC FOOT USING HARDROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33,

4. MAXIMUM SLUMP FOR EXTERIOR SLABS SHALL BE 5 INCHES. MAXIMUM SLUMP FOR ALL OTHER CONCRETE SHALL BE 4 INCHES. WATER SHALL BE CLEAN AND POTABLE. IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A, SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX. SEE DIVISION 3 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150. TYPE II CEMENT WITH A MAXIMUM CHLORIDE ION, PERCENT BY WEIGHT OF CEMENT, SHALL NOT EXCEED 0.15.

6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING

7. CONCRETE MIXING, PLACEMENT AND QUALITY SHALL BE PER IBC SECTION 1904, ASTM C 94, ASTM C 685, AND ACI 302. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. EXCEPT SLABS ON GRADE NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR HOLDOWNS, PT ANCHORAGES (AS OCCUR), CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS AND COLUMNS SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL SHALL NOT EXCEED 5 FEET. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO AS CONCRETE DOES NOT DISTURB FILL MATERIAL.

8. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE

9. CONCRETE SLAB ON GRADE CONTROL JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR TYPICAL DETAILS. WHERE CONTROL JOINTS ARE NOT SHOWN ON PLANS, ALL CONCRETE SLABS ON GRADE SHALL BE BOUNDED BY KEYED, DOWELED OR SAW-CUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 144 SQUARE FEET RATIO OF BOUNDARY DIMENSIONS SHALL NOT EXCEED 1.5:1. KEYED OR DOWELED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT. SAW CUT JOINTS SHALL BE CUT IN SLABS ON GRADE AS SOON AS POSSIBLE AFTER SLAB FINISHING AS MAY BE SAFELY DONE WITHOUT DISLODGING AGGREGATE. POST-TENSIONED CONCRETE SLABS SHALL NOT HAVE CONTROL JOINTS UNLESS SPECIFICALLY NOTED ON THE PLANS. CONCRETE FLOOR FINISH TO BE GRIND AND POLISHED MIXED WITH AN INTEGRAL TOPICAL SEALANT.

10. CONSTRUCTION JOINTS OR POUR JOINTS IN STRUCTURAL ELEMENTS (BEAMS, COLUMNS, ELEVATED SLABS, ETC.) NOT SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS REQUIRE PROPER APPROVAL OF THE ENGINEER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PROPOSED JOINTS TO ENGINEER FOR APPROVAL.

11. PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER

12. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO HOT OR COLD WEATHER IN ACCORDANCE WITH ACI 305 AND 306 AND IBC SECTION 1905. CONTRACTOR SHALL TAKE SPECIAL CURING PRECAUTIONS TO MINIMIZE SHRINKAGE CRACKING OF POST-TENSIONED CONCRETE SLABS.

13. WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES, USE ANCHORAGE SYSTEM EQUAL TO EPCON G5. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEERS PRIOR APPROVAL.

# MASONRY (CONCRETE BLOCK):

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION. (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT SPECIFICALLY NOTED ON PLAN SHALL BE (F'm) 1500

MASONRY STRENGTH (F'm DESIGN) = 1500 PSI BLOCK STRENGTH = 1900 PSI TYPE M MORTAR STRENGTH = 2500 PSI TYPE S MORTAR STRENGTH = 1800 PSI **GROUT STRENGTH** = 3000 PSI

2. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90, GRADE N-II. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.

3. MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF IBC SECTION 2103.8, TYPE M OR S, TYPE M MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.

4. GROUT: USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE

5. MINIMUM WALL VERTICAL REINFORCING, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, SHALL BE #5 BAR VERTICAL FULL HEIGHT IN CENTER OF GROUTED CELL AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, JAMBS AT WALL OPENINGS, EACH SIDE OF CONTROL JOINTS, AND AT INTERVALS NOT TO EXCEED 48 INCHES ON CENTER. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL REINFORCING.

6. MINIMUM WALL HORIZONTAL REINFORCING, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, SHALL BE A SINGLE #5 BAR IN CENTER OF 8 INCH DEEP CONTINUOUS GROUTED BOND BEAM AT TOP OF PARAPET OR FREE STANDING WALL AND AT 8'-0" INTERVALS THROUGH CONTROL JOINTS. PROVIDE BENT BARS PER TYPICAL DETAILS TO MATCH AND LAP HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. USE BOND BEAM UNITS AT HORIZONTAL REINFORCING.

7, MINIMUM LINTEL, WHERE NOT NOTED ON PLANS, SHALL HAVE A MINIMUM OF (2) #5 CONTINUOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MINIMUM DEPTH OF 24 INCHES. ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 2 FEET MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR

8. LAP REINFORCING 60 BAR DIAMETERS FOR GRADE 60. STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.

9. RETAINING WALLS. BASEMENT WALLS. ETC., SHALL BE ADEQUATELY WATERPROOFED AND DRAINED AS SPECIFIED BY OTHERS. IF NOT SPECIFIED BY OTHERS UNLESS NOTED OTHERWISE, DRAINAGE THROUGH RETAINING WALLS SHALL BE PROVIDED BY MEANS OF 1-1/2" DIA. HOLE AT 4 FEET O.C. AT LOW GRADE LEVEL. PROVIDE 2' GRAVEL COVER WITH FABRIC COVER AT DRAIN

10. MASONRY VENEER SHALL BE ATTACHED TO SUPPORTING WALL FRAMING WITH  $\frac{3}{16}$ " DIA. WALL TIES OR DOVETAIL-TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAX. VERTICAL SPACING OF TIES SHALL BE 16". MAX. HORIZONTAL SPACING SHALL BE 24". TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE 9 GA. WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" O.C. ENGAGE 9 GA. WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE LOCATED PER THE ARCHITECTURAL DRAWINGS.

11. HORIZONTAL JOINTS SHALL BE REINFORCED WITH 9-GAUGE TRUSS-TYPE JOINT REINFORCEMENT EQUAL TO "DUROWALL" @ 16" O.C.

# STRUCTURAL STEEL

1. STRUCTURAL STEEL MEMBERS SHALL CONFORM WITH THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES UNLESS NOTED OTHERWISE:

SHAPE	STANDARD	<u>Fy</u>
ROLLED WIDE FLANGE SECTIONS:	ASTM 992	50 KSI
OTHER STANDARD STEEL SHAPES AND ROLLED SECTIONS:	ASTM A36	36 KSI
BARS AND PLATES:	ASTM A36	36 KSI
TUBES:	ASTM A500	46 KSI
PIPE:	ASTM A53 GR.B OR A500 GR.B	36 KSI 42 KSI
BOLTS AT STEEL CONNECTIONS:	ASTM A325 OR A490	

2. ALL BOLTS SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS EXCLUDED FROM SHEAR PLANE (TYPE "X" CONNECTION), UNLESS NOTED OTHERWISE. HIGH-STRENGTH BOLTS SHALL BE TIGHTENED USING ANY AISC APPROVED METHOD.

3. ALL THREADED ROD. THREADED STUDS. FOUNDATION ANCHOR BOLTS. AND ALL BOLTED CONNECTIONS INVOLVING WOOD MEMBERS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE ALL EXPANSION OR EPOXY BOLTS SHALL HAVE CURRENT ICBO RATING FOR MATERIAL INTO WHICH INSTALLATION OCCURS. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AMERICAN WELDING SOCIETY (AWS). ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD.

4. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.

5. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDING SHALL CONFORM TO THE LATEST AMERICAN WELDING SOCIETY (AWS) STANDARDS. WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION.

6. GROUT BENEATH COLUMN BASES OR BEARING PLATES SHALL BE 5,000 PSI (MIN) NON-SHRINK FLOWABLE GROUT OR DRYPACK. INSTALL GROUT UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL GROUT UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION. GROUT DEPTH SHALL BE SUFFICIENT TO ALLOW GROUT OR DRYPACK TO BE PLACED BENEATH PLATE WITHOUT VOIDS.

7. DETAILS OUTLINE BASIC CONNECTION TYPES. BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS NOT DETAILED IN DRAWINGS SHALL BE SIZED BY STEEL DETAILER AS STANDARD AISC, TYPE 2, BEARING CONNECTIONS CAPABLE OF SUPPORTING REACTIONS DEVELOPED BY MAXIMUM UNIFORM LOAD CAPACITY ON A SIMPLE SPAN FOR BEAM AND BEAM SPAN GIVEN.

8. STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED ACCORDING TO ALL APPLICABLE SECTIONS OF THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF STRUCTURAL STEEL. SHOP DRAWINGS SHALL INCLUDE LAYOUT AND DIMENSIONS OF FRAMING PLANS, CONNECTION DETAILS, AND SEQUENCE, ETC.

9. FOUNDATION ANCHOR RODS SHALL BE AS CALLED OUT IN THE COLUMN TABLE AND IN BASE PLATE DETAILS, WITH LEVELING NUTS. IF NOT CALLED OUT, USE F1554 3/4" DIAMETER WITH 10" EMBEDMENT AND EMBEDDED NUT.

10. ALL EXPOSED STEEL SHALL BE GALVANIZED U.N.O., INCLUDING MASONRY SUPPORT LINTELS. RE: DIVISION 5 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

11. FIELD CUTTING, DRILLING OR OTHER MODIFICATION OF STRUCTURAL STEEL COMPONENTS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. WHERE BEAM PENETRATIONS CANNOT BE AVOIDED OR WHERE CUTTING IS REQUIRED, CONTRACTOR SHALL SUBMIT TO THE ENGINEER, ALL PERTINENT INFORMATION INCLUDING PENETRATION SHAPE, SIZE LOCATION AND METHOD OF CUTTING THE OPENING.

# STRUCTURAL LUMBER:

1. LUMBER SHALL BE GOOD SOUND, WELL SEASONED, S4S, AND MOISTURE CONTENT OF 15% MAXIMUM WITH THE FOLLOWING ALLOWABLE STRESSES: STUDS, JOISTS, AND BEAMS:

#2 DOUGLAS-FIR OR BETTER A. Fb = 900 PSI B. Fc = 1350 PSI C. Fv = 180 PSI

D. E = 1600000 PSI

### 2. NAILERS, BLOCKINGS, FURRING, GROUNDS, ETC. S-P-F NO. 2 OR BETTER.

3. ALL WOOD FRAMING SHALL BE SELECTED SUCH THAT NO LUMBER WITH LARGE KNOTS, WARPS, SPLITS, OR DEFECTS IS USED.

4. ROOF DECKING SHALL BE 5/8" THICK APA C-C EXTERIOR GRADE OSB UNLESS NOTED OTHERWISE WITH 10d COMMON NAIL AT 6" AT SUPPORTED EDGES W 1-5/8" PENETRATION AND 12" O.C. ON INTERMEDIATE EDGES.

5. OSB SHEAR WALLS 7/16" THICK WITH 8d NAIL AT 6" SPACING AT BLOCKED PANEL EDGES WITH 1-5/8" NAIL PENETRATION AND 12" O.C. ON INTERMEDIATE SUPPORTS.

6. FABRICATED WOOD PRODUCTS (INCLUDING JOISTS, BEAMS, ETC.) SHALL BE DESIGNED, FABRICATED, AND ERECTED BY THE SUPPLIER IN ACCORDANCE WITH THE APPROPRIATE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC). AMERICAN PLYWOOD ASSOCIATION (APA), TRUSS PLATE INSTITUTE (TPI), AND THE BUILDING CODE IN THE CASE OF CONFLICTING DESIGN VALUES, THE MORE CONSERVATIVE VALUE SHALL BE USED.

7. WOOD FRAMING, ROUGH CARPENTRY, AND MISCELLANEOUS WOOD CARPENTRY WORK SHALL BE GOVERNED BY 2012 INTERNATIONAL BUILDING CODE REQUIREMENTS. ALL SUCH WORK SHALL COMPLY WITH CONSTRUCTION. CONNECTION AND GENERAL REQUIREMENTS OF CHAPTER 23 OF THE CODE. IT SHALL BE A REQUIREMENT OF THIS CONTRACT THAT THE CONTRACTOR PROVIDE A COPY OF THIS CHAPTER TO ALL PERTINENT PARTIES.

8. LAMINATED VENEER LUMBER (LVL) BEAMS AS CALLED OUT IN THE PLANS ARE SIZED AS PER "TRUSS JOIST CORPORATION" RECOMMENDATIONS. ALTERNATIVE LVL BEAMS WILL BE CONSIDERED IF PROPER DESIGN INFORMATION IS SUBMITTED AND APPROVED AS EQUAL.

BY MULTIPLE STUDS FOR THE FULL WIDTH OF THE BEAM. MULTIPLE STUDS SHALL BE CONTINUED TO FOUNDATION

9. ALL BEAMS BEARING PERPENDICULAR TO WALL FRAMING SHALL BE SUPPORTED

10. AT OPENINGS OVER 5'-0" IN WIDTH, PROVIDE 2- 2x KING STUDS AT EACH SIDE OF

11. CONNECTORS FOR WOOD CONSTRUCTION SHALL BE SIMPSON OR APPROVED EQUAL. SIMPSON DESIGNATIONS FOR CONNECTORS ARE INDICATED ON PLAN. CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

12. INTERIOR NON LOAD-BEARING WALL HEADER SIZES ARE AS FOLLOWS: A. 2x4 (FLAT) ---- SPANS 0'-0" TO 4'-0".

B. (2)2x4 (FLAT) ---- SPANS 4'-0" TO 7'-0". C. (2)2x8 -----SPANS 7'-0" TO 13'-6".

13. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE-TREATED. ALL WOOD STUDS, COLUMNS, AND POSTS IN CRAWL SPACES SHALL BE PRESERVATIVE-TREATED. WHERE WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WITHOUT JOISTS ARE CLOSER THAN 18 INCHES, OR WOOD BEAMS ARE CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES, THE FLOOR ASSEMBLY (INCLUDING BEAMS, JOISTS, AND SUBFLOOR) SHALL BE PRESERVATIVE-TREATED.

# SPECIAL INSPECTIONS

PER 2012 IBC CHAPTER 17

THE OWNER SHALL EMPLOY A REGISTERED ENGINEER OR TEST AGENCY WITH EXPERIENCED TECHNICIANS UNDER THE DIRECT SUPERVISION OF A REGISTERED ENGINEER TO PERFORM THE DUTIES OF THE SPECIAL INSPECTOR. THE SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE.

# DUTIES AND RESPONSIBILITIES OF THE INSPECTOR:

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS, AND THE FOLLOWING

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CURRENT BUILDING CODE. REPORTS SHALL COMPLY WITH THE REQUIREMENTS OF IBC SECTION 1704.1.

<u>ITEM</u>	SPECIAL INSPECTION	REMARKS
SOIL	NO	
CONCRETE CONSTRUCTION	YES	PER IBC 1705.3
MASONRY CONSTRUCTION	YES	PER IBC 1705.4
FABRICATORS	YES	PER IBC 1704.2.5
STEEL CONSTRUCTION	YES	PER IBC 1705.2

# **CONNECTION TYPE:**

1. JOIST TO SILL OR GIRDER, TOENAIL

2. BRIDGING TO JOIST 3. 1"x6" (25MMx152MM) SUBFLOOR OR LESS TO JOIST 4. WIDER THAN 1" X 6"(25MMx152MM) SUBFLOOR TO JOIST 5. 2" (52MM) SUBFLOOR TO GIRDER 6. SOLE PLATE TO JOIST OR BLOCKING 7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED W. PANELS 8. TOP PLATE TO STUD 9. STUD TO SOLE PLATE 10. DOUBLE STUDS

11. DOUBLE TOP PLATES 12. DOUBLE TOP PLATES, LAP SPLICE 13. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 14. RIM JOIST TO TOP PLATE 15. TOP PLATES, LAPS AND INTERSECTIONS 16. CONTINUOUS HEADER, TWO PIECES

20. CEILING JOISTS TO PARALLEL RAFTERS 21. RAFTER TO PLATE 22. 1" (25MM) BRACE TO EACH STUD AND PLATE 23. 1"x8" SHEATHING OR LESS TO EACH BEARING 24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING 25. BUILT-UP CORNER STUDS

17. CEILING JOISTS TO PLATE

18. CONTINUOUS HEADER TO STUD

19. CEILING JOISTS, LAP OVER PARTITIONS

26, 2" PLANKS 27. COLLAR TIE TO RAFTER 28. JACK RAFTER TO HIP 29. ROOF RAFTER TO 2-BY RIDGE BEAM 30. JOIST TO BAND JOIST 31. LEDGER STRIP

32. BUILT-UP GIRDER AND BEAMS

# PER IBC 1705.2

NAILING:

3 - 8d TOENAIL 2 - 8d TOENAIL EACH END 2 - 8d FACE NAIL 3 - 8d FACE NAIL 2 - 16d BLIND AND FACE NAIL 16d @ 16" O.C. TYP. FACE NAIL 3 - 16d @ 16" O.C 2 - 16d END NAIL 4 - 8d TOENAIL OR 2 - 16d END NAIL 16d @ 24" O.C. FACE NAIL 16d @ 16" O.C. TYP. FACE NAIL 3 - 8d TOENAIL 8d @ 6" O.C. TOENAIL 2 - 16d FACE NAIL

> 16d @ 16" O.C. ALONG EDGE 3 - 8d TOENAIL 4 - 8d TOENAIL 3 - 16d MIN. FACE NAIL 3 - 16d MIN. FACE NAIL 3 - 8d TOENAIL 2 - 8d FACE NAIL 3 - 8d FACE NAIL 3 - 8d FACE NAIL 16d @ 24" O.C. 16d AT EACH BEARING 3 - 10d FACE NAIL

2 - 16d TOENAIL OR 2 - 16d FACE NAIL 3 - 16d FACE NAIL 3 - 16d FACE NAIL 20d @ 32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES AND 2 - 20d FACE NAILS AT ENDS AND AT EACH SPLICE

3 - 10d TOENAIL OR 2 - 16d FACE NAIL

# REINFORCING STEEL (FOR CONCRETE AND

1. REINFORCED CONCRETE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-05) BY THE AMERICAN CONCRETE INSTITUTE.

2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE "ACI STANDARD: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND THE "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R) BY THE AMERICAN CONCRETE INSTITUTE. THE MOST CURRENT EDITIONS OF CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS" MAY ALSO BE

3. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (FY=60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706. GRADE 60 LOW ALLOY WELDABLE STEEL.

4. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SUCH THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRE OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.

5. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS:

EXPOSURE CONDITION:	MINIMUM COVER:	TOLERANCES (+/-):
CAST AGAINST AND PERMANENTLY EXPOSED		
TO EARTH:	3"	3/8"
EXPOSED TO EARTH OR WEATHER:		
#5 AND SMALLER:	1½"	3/8"
#6 AND LARGER:	2"	<sup>3</sup> / <sub>8</sub> "
NOT EXPOSED TO WEATHER OR CONTACT WITH THE GROUND:	IN	
ROOF SLAB:	1"	1/8"
STRUCTURAL SLABS & WALLS: BEAMS AND COLUMNS (PRIMAR) REINFORCEMENT, TIES, STIRRUF		1/8"
AND SPIRALS):	1½"	3/8 "
SLABS ON GRADE:	11/2"	1/4"

6. LAP SPLICES OF REINFORCING STEEL IN ALL CONCRETE SHALL BE ACCORDING TO ACI 318 (CLASS B SPLICE), UNLESS NOTED OTHERWISE. STAGGER SPLICES A MINIMUM OF ONE LAP IN LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED. LATEST ACI CODE AND DETAIL MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. SPLICE BARS TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SUPPORT IN SPANDRELS, BEAMS, GRADE BEAMS, ETC. UNLESS NOTED OTHERWISE.

7. ALL CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED IN THE STRUCTURE UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS. WHEN CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS ARE REQUIRED, THE REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT AND A KEY SHALL BE PROVIDED FOR ADEQUATE SHEAR TRANSFER.

8. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE STRAIGHTENED AND RE-BENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE.

9. WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM WITH IBC STANDARD 19-2, AND SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.

10. REINFORCING BAR SPACING SHOWN ON PLANS ARE AT MAXIMUM ON CENTERS. ALL BARS SHALL BE DETAILED AND PLACED PER CONCRETE REINFORCING STEEL INSTITUTE (CRSI) SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

# BASIS FOR DESIGN:

1. INTERNATIONAL BUILDING CODE (IBC) 2012 2. DEAD LOADS A. ROOF... 3. LIVE LOADS A. ROOF (NO REDUCTION).....20 PSF 4. SNOW LOAD A. GROUND SNOW, Pg = 10 PSF B. FLAT ROOF SNOW LOAD, Pf = 10 PSF C. EXPOSURE FACTOR, Ce = 1.0 D. IMPORTANCE FACTOR, Is = 1.0 E. THERMAL FACTOR, Ct = 1.0 F. RAIN ON SNOW = 0 PSF WIND LOAD A. ULTIMATE WIND SPEED (3-SECOND GUST)........115 MPH B. RISK CATEGORY - II

D. INTERNAL PRESSURE COEFFICIENT = ±0.18 (ENCLOSED BUILDINGS) E. COMPONENT AND CLADDING (EFFECTIVE AREA = 36 SQ ROOF) (EFFECTIVE AREA = 20 SQ WALLS) a. ROOF ZONE 1: -23.2 PSF ZONE 2: -35.7 PSF ZONE 3: -49.8 PSF b. WALL ZONE 4: -24.7 PSF ZONE 5: -29.7 PSF

6. SEISMIC LOAD A. IMPORTANCE FACTOR, le = 1.0

C. EXPOSURE = "B"

B. Ss = 0.421 gC. S1 = 0.166 gD. SITE CLASS = B E. SDs = 0.281 g

F. SD1 = 0.110 g G. SEISMIC DESIGN CATEGORY = B H. BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAMED WALLS SHEATHED W/ WOOD STRUCTURAL PANELS RATED FOR

SHEAR RESISTANCE AND ORDINARY MOMENT FRAMES I. ANALYSIS PROCEDURE USED = EQUIVALENT LATER FORCE



PROJECT INFORMATION **ANDY'S FROZEN CUSTARD -**CONWAY, AR 2375 DAVE WARD DRIVE

**BID / PERMIT** 

March 9, 2015

ARCHITECT **Hufft Projects** 

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SPRINGFIELD, MO

ABBREVIATIONS:

 T/ = TOP OF 2. B/ = BOTTOM OF 3. JBE = JOIST BEARING ELEVATION

4. DBE = DECK BEARING ELEVATION 5. H.A.S. = HEADED ANCHOR STUD 6. fc = CONCRETE COMPRESSIVE STRENGTH

7. MFR = MANUFACTURER 8. FTG = FOOTING 9. MEP = MECHANICAL, ELECTRICAL, PLUMBING

10. RTU = ROOF TOP UNIT 11. FV = FIELD VERIFY 12. G.C. = GENERAL CONTRACTOR 13. EL = ELEVATION 14. BRG = BEARING

15. U.N.O. = UNLESS NOTED OTHERWISE

16. ME = MATCH EXISTING

REVISION SCHEDULE NO. DATE ISSUE

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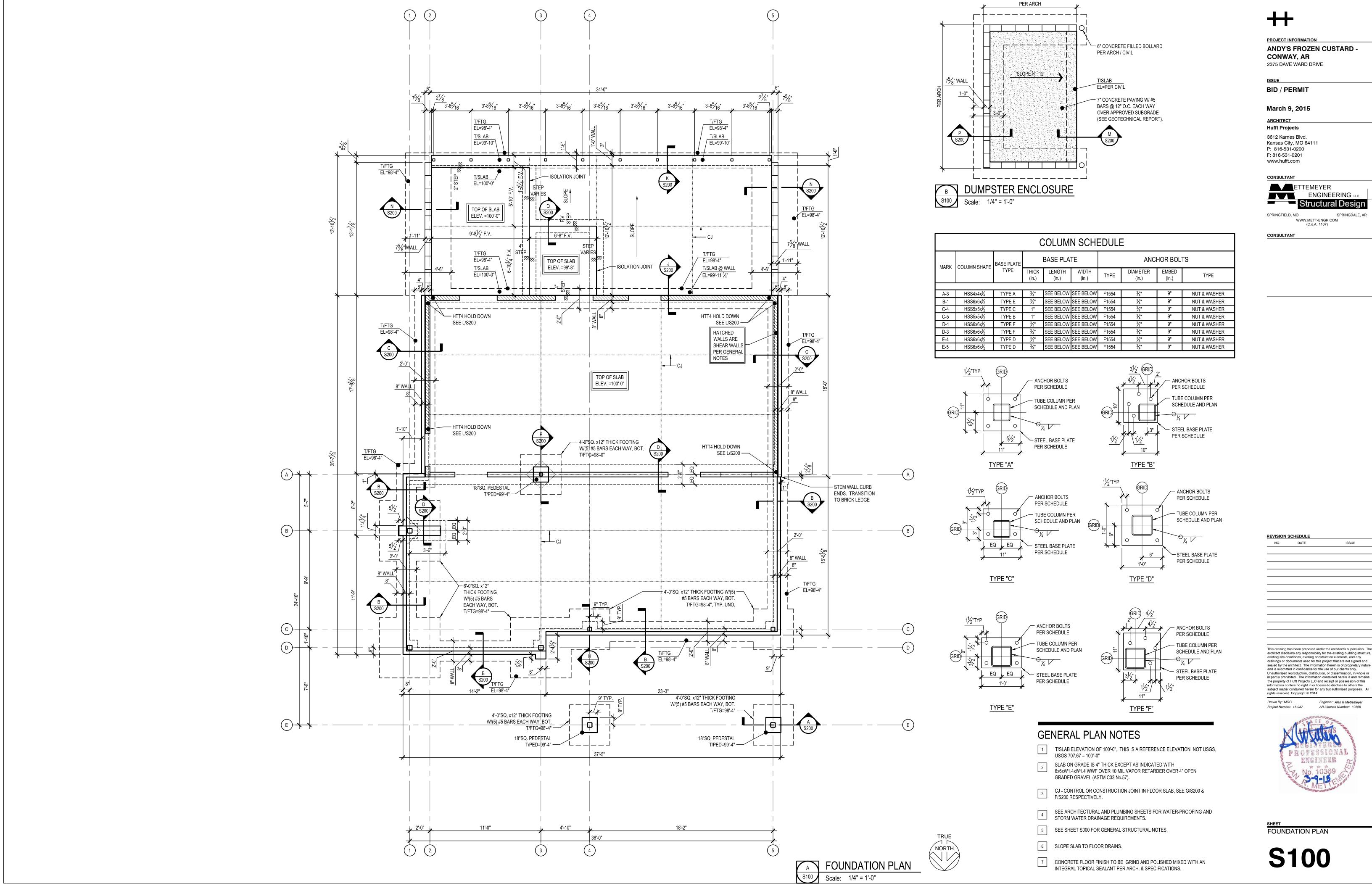
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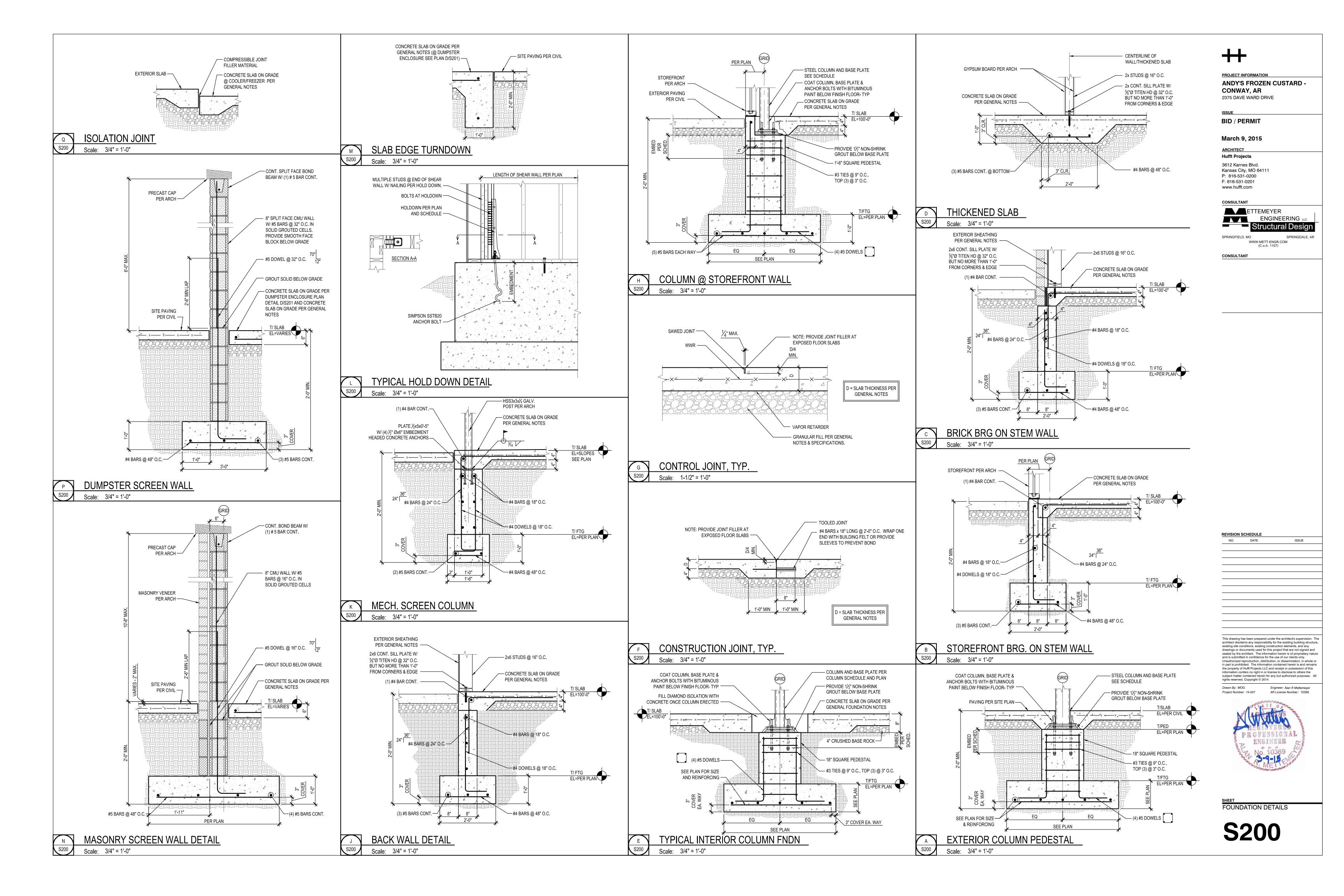
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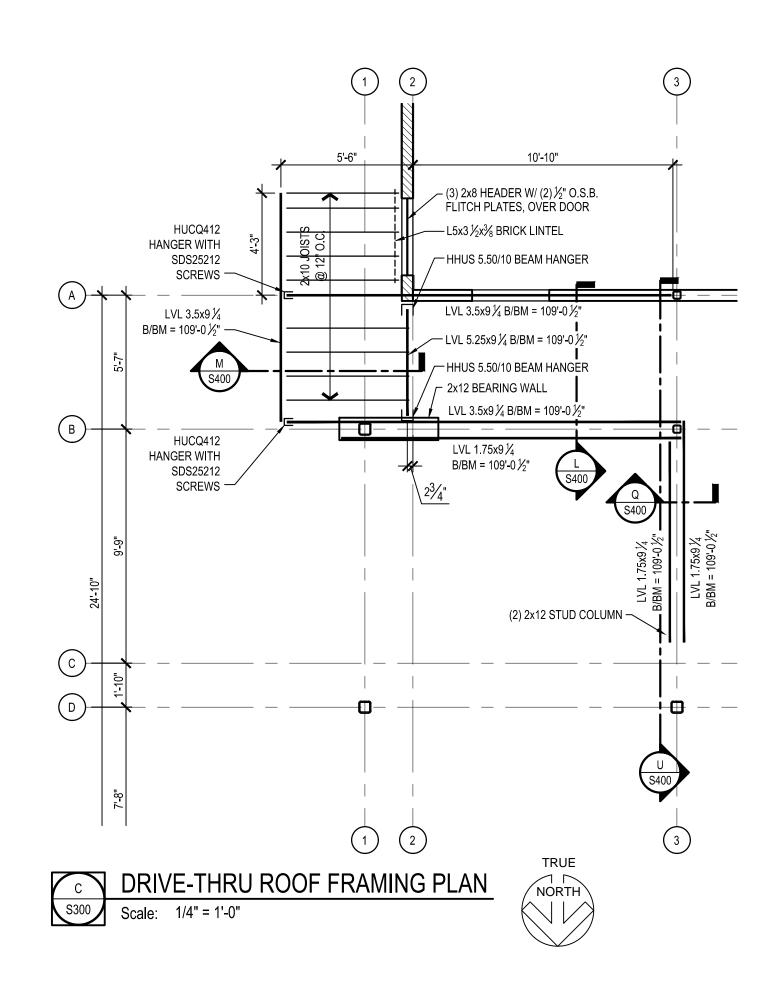


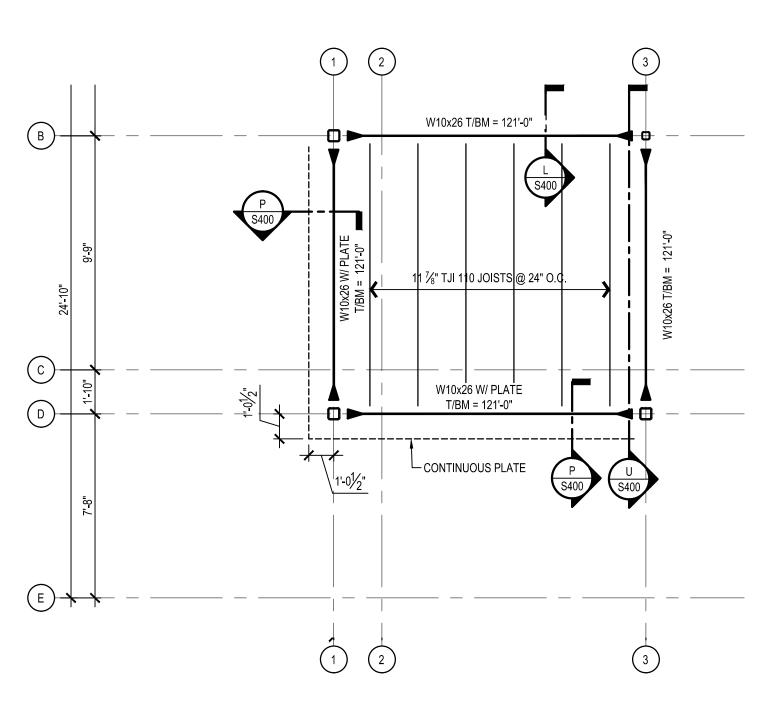
GENERAL NOTES



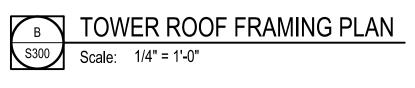


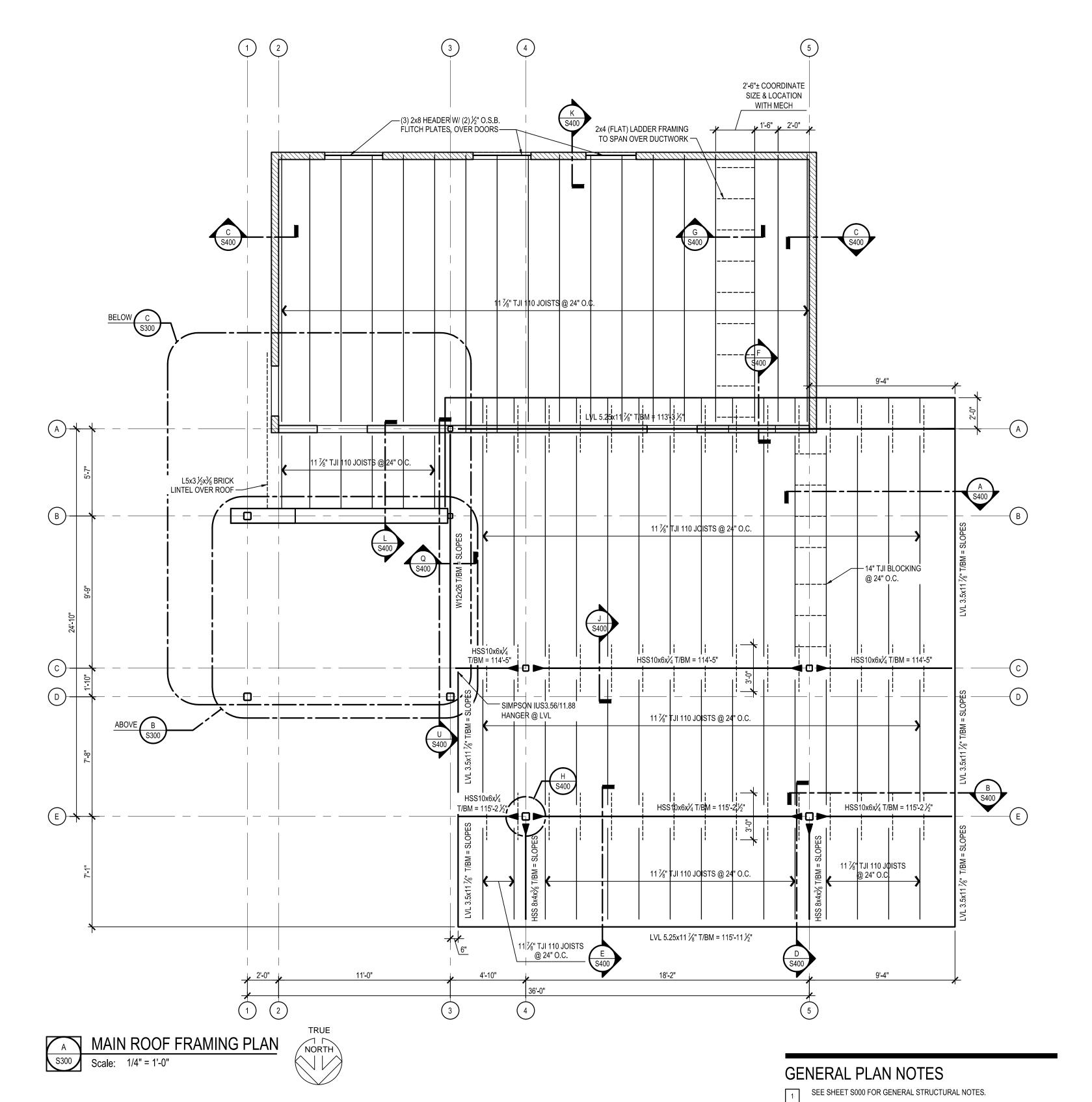






NORTH







PROJECT INFORMATION

ANDY'S FROZEN CUSTARD CONWAY, AR
2375 DAVE WARD DRIVE

ISSUE

**BID / PERMIT** 

March 9, 2015

ARCHITECT

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REVISION SCHEDULE

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Drawn By: MOG Engineer: Alan R Mettemeyer
Project Number: 15-037 AR License Number: 10369



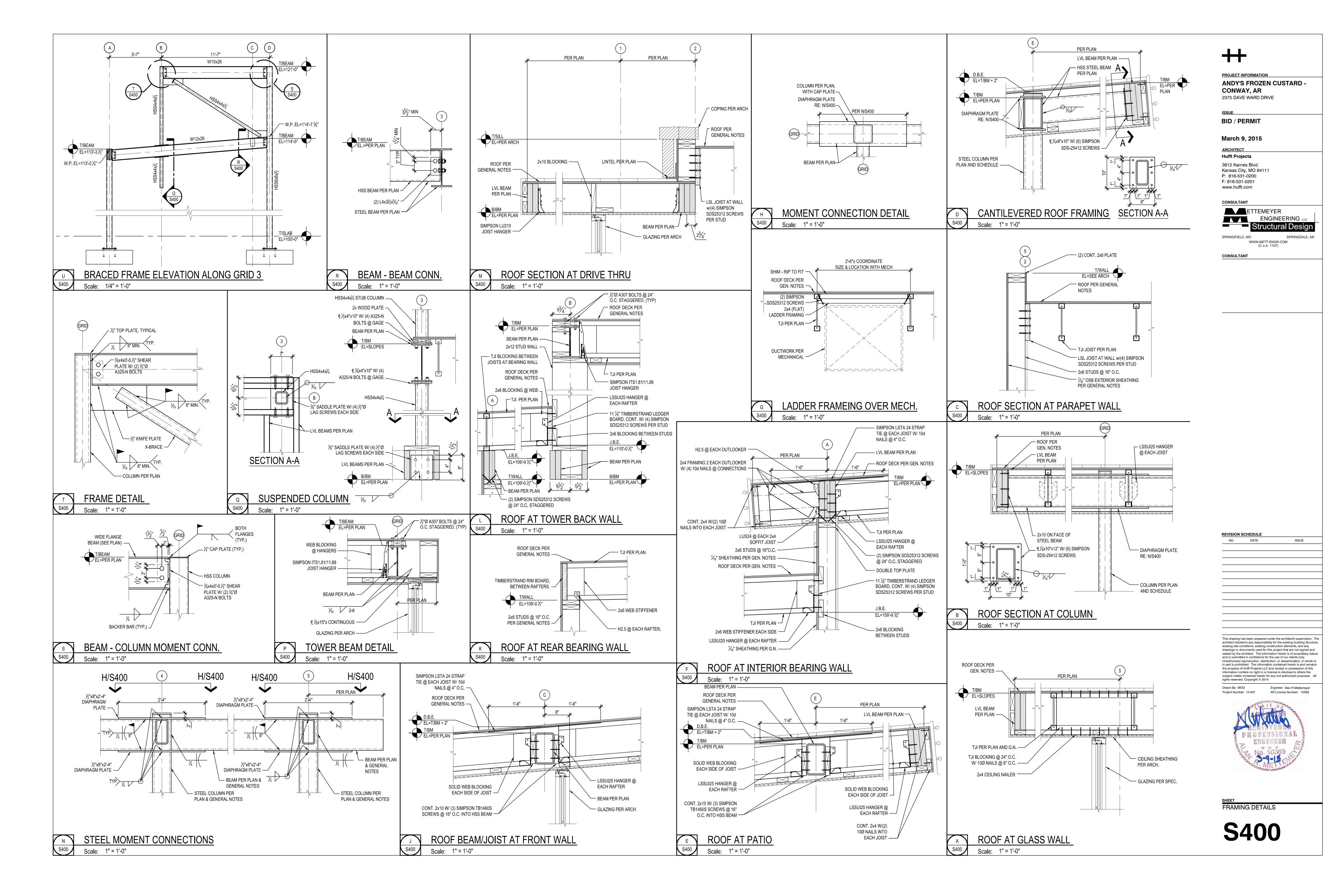
ROOF FRAMING PLAN

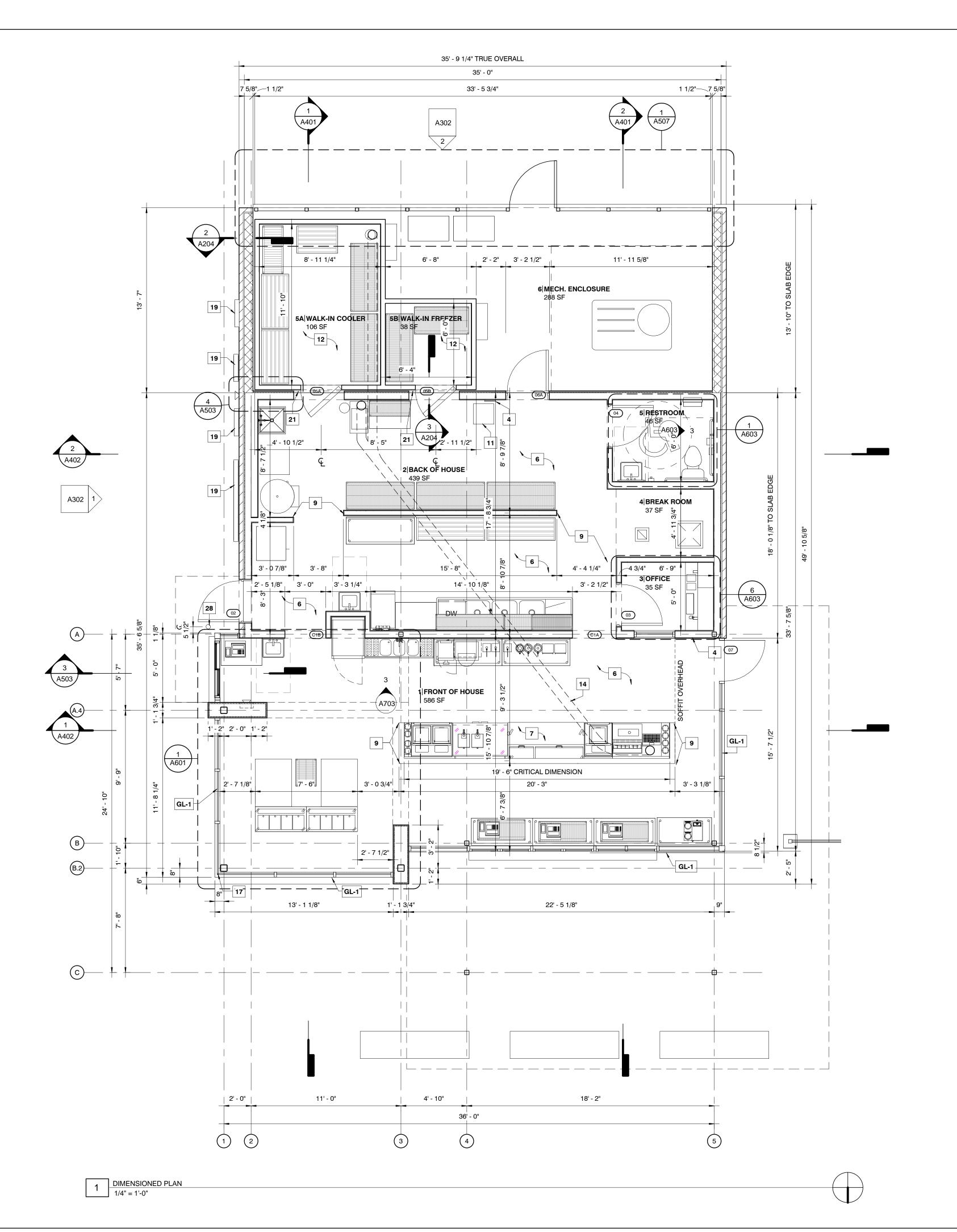
PROVIDE SIMPSON H2.5 TIE @ EACH ROOF JOIST END.

MOMENT CONNECTION RE: D, N, & S/S400.

HATCHED WALLS INDICATE SHEAR WALLS PER GENERAL NOTES.

**S300** 







1. ROOF DRAINS BELOW SIDEWALK TO STORM SEWER - **NOTE:** EXPELL WATER UNDER SIDEWALK TO CURB - NOT ONTO WALK. 2. WHITE VINYL FILM APPLIED TO GLAZING

- 3. ALIGN CLG. W/ COUNTER FACE BELOW 4. TACTILE ALUMINUM EXIT SIGNAGE IN COMPLIANCE WITH SECTION 1011.3 IBC 2006
- SURFACE MOUNTED TO DOOR. 5. TACTILE ALUMINUM RESTROOM SIGNAGE IN COMPLIANCE WITH SECTION 1110.1 IBC 2006 SURFACE MOUNTED TO DRYWALL. 6. PROVIDE 3' CLEAR ACCESSIBLE EGRESS PATH.
- 7. DUCTWORK LOCATION AND SIZING PER MEP 8. ROOF STRUCTURE WITH CLEAR ANODIZED ALUMINUM FASCIA WITH 3 CONTINUOUS BANDS OF NEON TUBING
- 9. INSTALL CORNER GUARDS, TYP. 10. PROVIDE HOT AND COLD WATER HOSE BIB ON
- 11. FIRE EXTINGUISHER AND CABINET SEE 4/A701 12. COORDINATE INSTALLTION OF WALK-IN COOLER
- AND FREEZER W/ SUPPLIER 13. CENTERLINE OF LIGHTS TO ALIGN W/ MULLIONS. SPACE EQUALLY WHERE MULLION DO NOT EXIST
- 14. 8" Ø PVC SODA CHASE- RUN UNDER SLAB 15. ROOF CONSTRUCTION - 60 MIL WHITE TPO **ROOFING MECHANICALLY FASTENED ON 1"** RIGID INSULATION OVER TJI'S PER STRUCTURAL WITH OPEN CELL INSULATION - MINIMUM OF R-
- 16. CENTER LIGHT OVER TOILET 17. CORNER TO BE BUTT-GLAZED WITH A 45
- DEGREE MULLION 18. CUSTARD MACHINES TO STRADDLE FLOOR
- 19. ANDY'S MENU AND POSTER SIGNAGE BY OTHERS - VERIFY INSTALLED LOCATION W/
- OWNER 20. STAINLESS STEEL SERVING COUNTER @ DRIVE THRU WINDOW. SEE DEATIL 3/A503. 21. MAINTAIN A MINIMUM OF 10" CLEAR ON
- OPERABLE SIDE OF WALK-IN COOLER AND FREEZER - COORDINATE DETAILING W/ MFG. 22. TRASH / RECYCLING PER OWNER
- 23. 5" DIAMETER DOWNSPOUT CONNECTED TO STORM SEWER PER CIVIL PLANS 24. 60 MIL WHITE TPO MECHANICALLY FASTENED
- WITH 1" RIGID INSULATION. 25. PROVIDE SOLID BLOCKING FOR ALL SHELVES & WALL MOUNTED EQUIPMENT. SEE A203 FOR
- LOCATIONS 26. COLUMNS PER STRUCTURAL - PAINTED P-1.
- 27. ATAS PREFINISHED METAL GUTTER AND DOWNSPOUT COLOR: 17 BRITE RED 28. STEEL PIPE BOLLARD - 4" DIAMETER SCHEDULE 40 STEEL PIPE - 4' ABOVE GRADE W/ 2' CORE
- **BELOW GRADE** 29. SQUARE CUT ROOF EDGE
- 30. SITE WORK PER CIVIL PLANS AND SPECIFICATIONS
- 31. PREFINISHED METAL BOX GUTTER 32. EASI-SERV PRODUCTS INC. - SS SERIES IN-LINE SIDE SLIDER – DRIVE THRU WINDOW PER WINDOW AND CURTAIN WALL SCHEDULE
- 33. CAP AND SILL FLASHING AT TOP DATUM OF MASONRY VENEER AND FREESTANDING WALL,
- 34. FOUNDATION PER STRUCTURAL
- 35. WALL TYPE PER PLAN 36. ANDY'S FROZEN CUSTARD NEON CONE SIGN "MADE FRESH EVERY HOUR" - LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING -SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE
- OF MULLION 37. ANDY'S FROZEN CUSTARD SPRECHER ROOT BEER NEON SIGN - LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING - SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION

# **EXTERIOR FINISH SCHEDULE**

<u>#</u>	DESCRIPTION
C-1	COPING TYPE 1: PRECAST CONCRETE PARAPET CAP - COLOR INTEGRAL WITH MASONRY
FC-1	FIBER CEMENT TYPE 1: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN

FC-2 FIBER CEMENT TYPE 2: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE HC-166 KENDALL CHARCOAL

MOORE 1315 POPPY

- GL-1 GLAZING TYPE 1: 5500 EFFCO CURTAIN WALL SYSTEM WITH 1" INSULATED GLAZING, CLEAR OVER CLEAR M-1 MASONRY TYPE 1: ENDICOTT BRICK - MANGANESE
- N-1 PERIMETER NEON LIGHTING BY OTHERS ON EXTENT OF ANODIZED ALUMINUM FASCIA
- S-1 SOFFIT TYPE 1: GOLD BOND EXTERIOR GYPSUM BOARD, STO DIRECT APPLIED FINISH

IRONSPOT, VELOUR FINISH

W-1 WOOD TYPE 1: GEOLAM 4G TRIM SOLEO 10 COLOR: MOLESKIN ON GALVANIZED TUBE STEEL FRAME



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

MARCH 9, 2015

ARCHITECT **Hufft Projects** 

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M.F.E.C., Inc. 3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

# **PARTITION LEGEND:**

**NEW INTERIOR PARTITION** 2 x 6 WOOD STUDS A-1: 5/8" GWB BOTH SIDES **A-2**: 5/8" GWB ONE SIDE

**NEW INTERIOR PARTITION** 2 x 4 WOOD STUDS, 5/8" GWB B-1: 5/8" GWB BOTH SIDES **B-2**: 5/8" GWB ONE SIDE

- DIMS. ARE FROM OUTSIDE FACE OF EXT. WALLS TO FIN. FACE OF
- NEW PARTITIONS, U.O.N.
- 2. REFER TO A701 FOR NOTES ON WALL TYPE / DETAILING.
- ALL FOOD AND NON-FOOD SURFACES ARE TO BE SMOOTH, DURABLE, NON-ABSORBENT, LIGHT IN COLOR AND EASILY CLEANABLE PER LOCAL CITY HEALTH DEPARTMENT REGULATIONS.
- 4. REFER TO INT. ELEV. FOR CONDITIONS WITH TILE AS FIN. WALL SURFACE - PROVIDE 5/8" CONCRETE BACKER BOARD IN LIEU OF G.W.B.
- 5. BATHROOM WALLS SHOULD BE INSUL. WITH SOUND BATT INSUL. TO ACHIEVE AN STC RATING OF 50
- 6. ALL WALLS CONTAINED WITHIN OR DIRECTLY FACING ROOM 2 - BACK OF HOUSE TO UTILIZE FRP 1 IN LIEU OF 5/8" G.W.B.

NO.	DATE	ISSUE

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Drawn By: JDT Project Number: 236 KS License Number:



DIMENSIONED PLAN

### FINISH SCHEDULE:

		FLOOR	BASE		WALL	FINISH			
NO.	NAME	FINISH	FINISH	N.	E.	S.	W.	CLG FINISH	COMMENTS
1	FRONT OF HOUSE	FL-1	T-1	PER INT. ELEV.	STOREFRONT	STOREFRONT	STOREFRONT	G.W.B.	
2	BACK OF HOUSE	FL-2	VB-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-1	
3	OFFICE	FL-1	VB-1	P-1	P-1	P-1	P-1	G.W.B.	
4	BREAK ROOM	FL-1	VB-1	T-1	T-1	T-1	T-1	G.W.B.	
5	RESTROOM	FL-2	VB-1	P-1	P-1	P-1	P-1	ACT-1	
5A	WALK-IN COOLER								
5B	WALK-IN FREEZER								
6	MECH. ENCLOSURE								

### FINISH KEY:

<u>#</u>	DESCRIPTION	FINISH NOTES
ACT-1	USG 2x2 CLIMA PLUS 2'x2'x1/2" - SQUARE EDGE W/ USG DX-WHITE GRID SYSTEM, COLOR: WHITE	
FL-1	POLISHED CONCRETE - 3500 PSI MIN NO AIR ENTRAINMENT GRIND 1/8" - W.R. MEADOWS "INDUROSHINE" SYSTEM OR EQUAL - APPLY TOPICAL SEALANT	FOH
FL-2	SEALED CONCRETE - TROWEL FINISHED - APPLY TOPICAL SEALANT	вон
FRP-1	MARLITE STANDARD FRP - PEBBLE TEXTURE - WHITE (OR EQUAL) ON 5/8" PLYWOOD	
P-1	SHERWIN WILLIAMS (OR EQUAL). COLOR: "DECORATOR'S WHITE"	
P-2	PAINT COLOR: "RED" - MATCH TILE-2	#3, 5, 6
SC-1	CHROMIX ADMIXTURE FOR COLOR CONDITIONED CONCRETE - CLASSIC COLORS - C-14 - FRENCH GRAY	#3, 5, 6
T-1	WHITE TILE: DALTILE "SEMI-GLOSS" - 3"x6" - COLOR: "WHITE (1) K101" *	
T-2	WHITE TILE: DALTILE "SEMI-GLOSS" - 3"x6" - COLOR: "VERMILLION (5) ODM1" *	
VB-1	JOHNSONITE (OR EQUAL) 4" TRADITIONAL COVED VINYL BASE. COLOR PALLET A: "32 PEBBLE WG"	
*	GROUT TO BE SELECTED BY ARCHITECT FROM MAPEI STANDARD COLORS, USE 1/16" GROUT JOINT, TYP.	

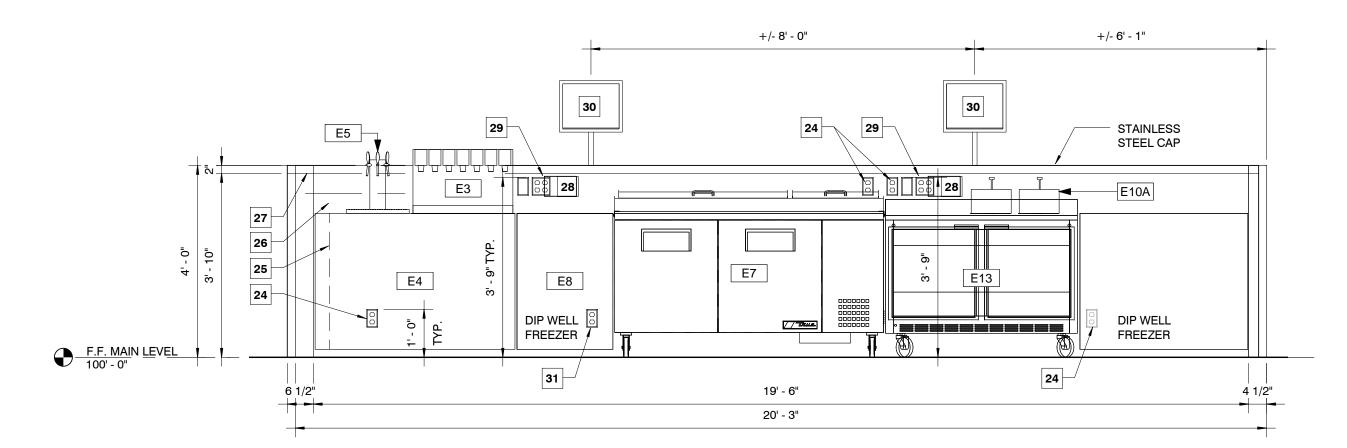
# NOTE: CONTRACTOR TO SUBMIT SAMPLES OF FINISH MATERIALS FOR ARCHITECT APPROVAL PRIOR TO ORDERING

# PLUMBING FIXTURE SCHEDULE:

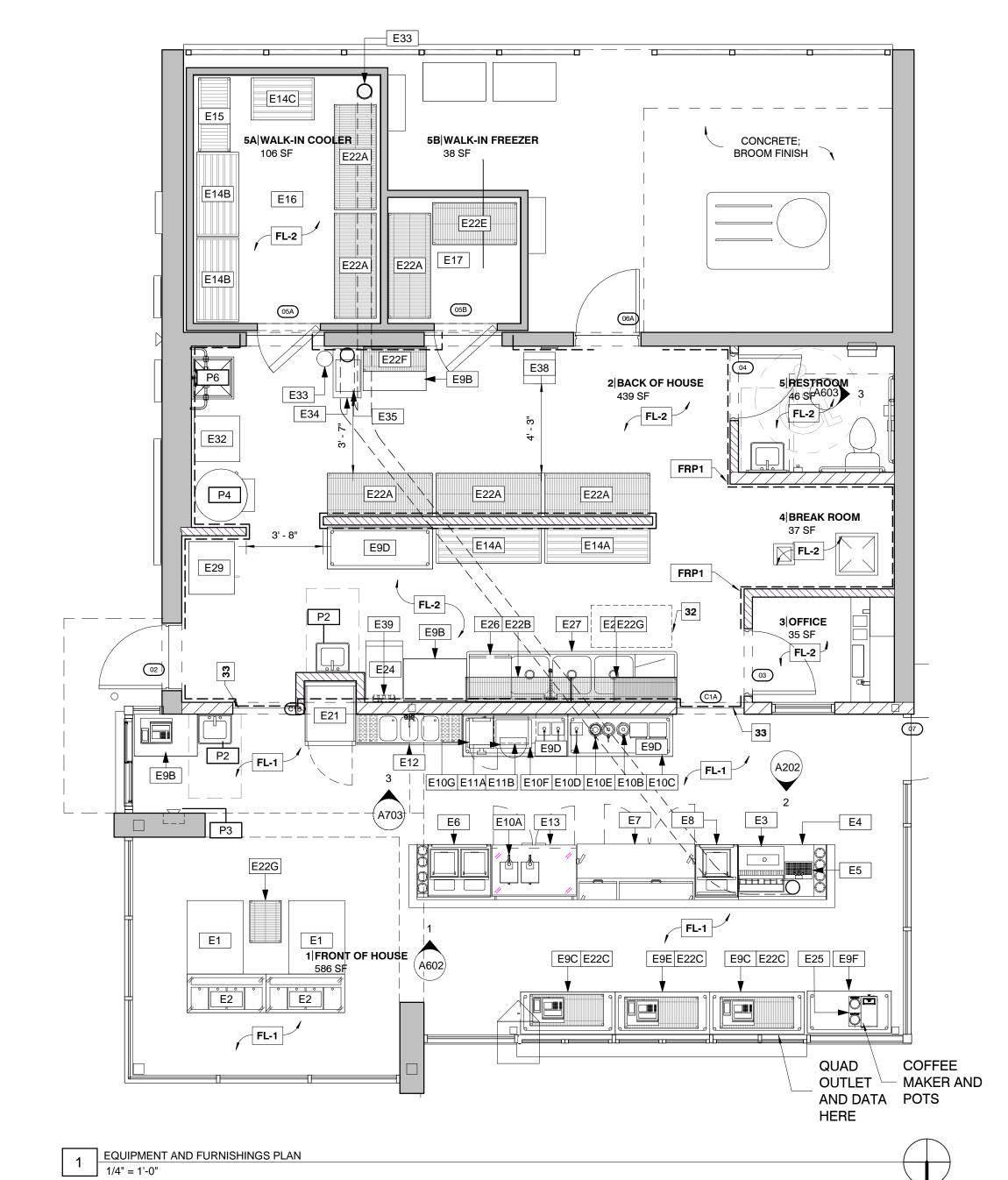
TAG	QTY	TYPE	MFR	MODEL	COMMENTS
P1	1	TOILET	ZURN	Z5551	SPECIFY LEVER LOCATION ON SIDE OF TOILET CLOSEST TO ADJACENT SINK
P2	3	HAND SINK	EAGLE	HSA-10-FA	
P3	2	HOT AND COLD HOSE BIB			
P4	1	ELECTRIC HOT WATER HEATER	RHEEM	120 GA.	CONFIRM CLEARENCE REQUIREMENTS WITH MFG.
P6	1	MOP SINK			

# **EQUIPMENT SCHEDULE:**

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
E1	2	CUSTARD MACHINE	BY OWNER	BY OWNER BY OWNER	REQUIRES 2 WATER OUTLETS
E2	2	ICE CREAM DIPPING CABINET	PERLICK	DROP-IN SERIES 8000	MOUNTS INTO COUNTERTOP / CASEWORK
E3	1	SODA DISPENSER	BY OTHERS		
E4	1	31.5 x 50 ENCLOSED WORKTABLE			
E5	1	BEER TOWER W/ SPRITZER ROOTBEER	GLASTENDER	CT-3-MFR	
E6	1	DROP IN FREEZER / ICE CREAM			
E7	1	Food Prep Table Solid Door Pizza Prep Table	TRUE FOOD SERVICE EQUIPMENT, INC.	TPP-67	
E8	1	DROP IN FREEZER / ICE CREAM			
	3	WORK TABLE - 24" x 36"	ADVANCE TABCO	KSS-243	CONFIRM FINISH WITH OWNER
	2	WORK TABLE - 24" x 52"			OPEN BASE - ADA WORK HEIGHT
	3	WORK TABLE - 24" x 60"			
E9E	1	WORK TABLE - 24" x 52"			OPEN BASE - ADA WORK HEIGHT
E9F	1	WORK TABLE - 24" x 52"			
E10A		FUDGE/SYRUP WARMER	SERVER	85070	
E10B		FUDGE/SYRUP WARMER			
E10C		BLENDER	ASTRO BLENDER	CUSTOM	
E10D		LIT W/ PUMPS (FITS #3 CAN)	055)/55	22-22	CUSTOM LADELS
E10E		FUDGE/SYRUP WARMER	SERVER	82500	
E10F		DRINK MIXER	PRINCE CASTLE	9B5C	
E10G		MILK DISPENSER	SILVER KING	SK1MP	
E11A		MICROWAVE	PANASONIC	NE-1064	4011 0411
E11B		MICROWAVE SHELF	KDOWNE	CC 40C0	18" x 24"
E12	1	UNDER BAR SINK	KROWNE	CS-1860	
E13	1	WORKTOP FREEZER	Beverage Air	WTF48AY	
	2	DUNNANGE RACK - 20" x 60"			
E14B E14C		DUNNANGE RACK - 24" x 48"  DUNNANGE RACK - 24" x 36"			
E14C E15	1	KEG RACK - 18" x 42"			TO HOLD ROOT BEER KEG
E16	1	WALK-IN COOLER			VERIFY ALL: CONDENSER UTILITY INFO,
L10	<b>'</b>	WALK-IN COOLER			EVAPORATOR UTILITY INFO, DOOR/LIGHT UTILITY INFO
E17	1	WALK-IN FREEZER			ORDER W/ 4" INSULATED FLOOR
E21	1	REACH IN FREEZER			
E22A	6	WIRE SHELVING - 24" x 60"	METRO	2460NS	CONFIRM FINISH WITH OWNER - 72" POSTS, W/CASTERS
E22B		WIRE SHELVING - 14" x 60"			
E22C		WIRE SHELVING - 18" x 42"	METRO	1842NS	CONFIRM FINISH WITH OWNER - 27" POSTS, 2-TIE
E22E		WIRE SHELVING - 24" x 48"	METRO	2448NS	CONFIRM FINISH WITH OWNER
E22F		WIRE SHELVING - 14" x 36"			W/ HANGER BAR
E22G		WIRE SHELVING - 18" x 36"	DV		
	1	ICE MACHINE AND BIN	HOSHIZAKI	KM-320M_H, B-300	
E25	1	COFFEE MAKER - POUR OVER	T.B.D.	T.B.D.	T.B.D.
E26	1	DISH MACHINE	HOBART	LXIGH	140 DEGREE F WATER MIN.
E27	1	3-COMP SINK	EAGLE	314-22-3-24	INCLUDES PRE-RINSE
E29	1	HALF-SIZE ELECTRIC CONVECTION OVEN	BLODGETT	CTBR	CONFIRM MODEL / DOOR SWING WITH OWNER, REQUIRES STAND
E32	1	STACKED WASHER/DRYER			ELECTRIC
	2	C02 TANK			
E34	1	SODA DISPENSING SYSTEM	BY OTHERS		
E35	1	REMOTE BEVERAGE DISPENSER	GLASTENDER		
E38	1	LAUNDRY HAMPER			
E39	1	WATER FILTER	CUNO	TA2-1	



2 FRONT PREP. LINE ELEVATION 1/2" = 1'-0"



# **KEYNOTES:**

- 1. IG RECEPTACLE FOR COMPUTER SYSTEM
- 2. IG RECEPTACLE FOR FAX AND DATA IG RECEPTACLE FOR PRINTER
- 4. IG RECEPTACLE FOR SOUND SYSTEM
- RECEPTACLE FOR SAFE
- 6. RECEPTACLE FOR GENERAL POWER
- 7. IG RECEPTACLE @ 42" AFF 8. PHONE JACK @ 54" AFF
- 9. BUMP BAR EQUIPMENT
- 10. IG RECEPTACLE @ 84" AFF 11. PHONE SYSTEM
- 12. DATA 13. DEMARCATION BLOCK 14. DRIVE-THRU MONITOR
- 15. 24" P-LAM COUNTER
- 16. MELAMINE SHELVES ON BRACKETS @ 16" O.C. 17. COUNTER SUPPORT BRACKETS @ 48" O.C.
- 18. MONITOR 19. COUNTER GROMMET
- 20. DUPLEX OUTLET AND DATA
- 22. MODEM AND ROUTER
- 23. 14" MELAMINE SHELF ON BRACKETS @ 16" O.C. 24. DUPLEX OUTLET
- 25. 6" CUP WELL INTEGRATED INTO CASE
- 26. 5" BACKSPLASH
- 27. STAINLESS STEEL WALL CAP
- 28. MONITOR CONTROL BOX MOUNTED TO INSIDE FACE OF WALL
- 29. QUAD OUTLETS AND DATA
- 30. DISPLAY MONITOR 31. DUPLEX OUTLET - 2 CIRCUITS
- 32. GREASE INTERCEPTOR SEE PLUMBING PLANS 33. TRANSITION FLOOR FINISHES @ C.J. TYP.

FINISH NOTES:

- 1. COORDINATE SHELVING HEIGHTS WITH
- GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL EQUIPMENT.
- 2. PROVIDE SOLID BLOCKING AT ALL SHELVES.

PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

MARCH 9, 2015

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3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

- 1. CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE CORNERS.
- SUPPLIED AND INSTALLED BY G.C..
- 2. NOT ALL FINISHES IN SCHEDULE OF FINISHES ARE NECESSARILY INCLUDED IN THIS SCOPE OF WORK. SEE ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATIONS.
- 3. PAINT EXPOSED STRUCTURAL COLUMNS (NOT INCLUDING DECORATIVE STEEL COLUMNS), EXPOSED DUCTWORK PT-1, SEMIGLOSS.
- 4. PAINT SHEEN: A.CEILINGS FLAT, B. STRUCTURAL COLUMNS AND EXPOSED METAL DUCTS - ACRYLIC ENAMEL, SEMI-GLOSS.
- C. WALLS SATIN (UNLESS NOTED OTHERWISE) 5. PAINT GYP. BD. WALLS AND CEILING PT-2 SEMIGLOSS AT HALL
- 6. WALL SURFACES TO BE FINISHED WITH FRP NOTED THUS.
- 7. EXPOSED DUCTWORK TO BE SHOP PRIMED AND OR PAINTLOC STEEL TO BE FIELD PAINTED.
- 8. PAINT EXTERIOR DOORS EXT. SIDE (GREY) TO MATCH BRICK, SEMIGLOSS. INT SIDE (SW DECORATOR'S WHITE)

# **GENERAL HEALTH DEPT. NOTES**

- 1. ALL ICE MACHINES TO BE HELD OFF ADJACENT BUILDING WALLS BY 6". IF A VACUUM BREAKER IS REQUIRED BY CODES IT WILL BE FURNISHED AND INSTALLED BY THE PLUMBING
- CONTRACTOR. 2. DISHWASHERS, WHERE APPLICABLE, WILL BE DESIGNED TO HAVE HIGH TEMPERATURE 180° F. FINAL RINSE AND WASH
- TEMPERATURES OF 140° F. 3. ALL REFRIGERATORS WILL BE FURNISHED WITH THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION AND ACCURATE WITHIN A RANGE OF
- PLUS OR MINUS 2 DEGREES. 4. ALL COUNTER TOP EQUIPLEMT NOT READILY MOVABLE, WEIGHING OVER 80 LBS. WILL BE PROVIDED WITH 4" LEGS WITH
- ADJUSTABLE FEET 5. ALL CHEMICAL SANITIZER KITS FOR THREE COMPARTMENT SINKS WILL BE FURNISHED BY THE CHEMICAL SUPPLIER. 6. ALL CHEMICAL INJECTION SYSTEMS MUST BE INSTALLED

DOWNSTREAM FROM A VACUUM BREAKER OR AIR GAP TO

- PREVENT POSSIBLE BACK SIPHON OF THE CHEMICALS INTO THE WATER LINE SYSTEM. 7. AL CUTTING BOARDS SHALL BE OF NON WOOD CONSTRUCTION 8. ALL FOOD SERVICE AND REALTED EQUIPMENT SHALL BE
- INSTALLED IN CONFORMITY WITH THE N.S.F. STANDARDS AND SHALL BE N.S.F. APPROVED. 9. AN AISLE SPACE OF A MINUMUM OF THIRTY-SIX (36) INCHES OR
- MORE SHALL BE PROVIDED WITH IN ALL WORK SPACES. 10. BACK SPLASHES OF EQUIPMENT SHALL BE INSTALLED A MINIMUM OF THREE (3) INCHES FROM WALLS OR SEATED TO THE WALL WITH SILICONE SEALANT.
- 11. VACUUM BREAKERS, WHEN USED, TO BE A MINIMUM OF SIX (6) INCHES ABOVE THE FLOOD RIM WITH NO SHUT OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
- 12. A MINIMUM OF 50 FOOT CANDLES OF LIGHT SHAL BE PROVIDED IN ALL FOOD PREP AND SERVING AREAS. 13. HAND WASHING FACILITIES ARE REQUIRED IN THE FOOD PREPARATION SERVING, AND UTENSIL WASHING AREAS AND
- WILL BE SHOWN ON THE FLOOR PLAN. 14. SNEEZE GUARD PROTECTION WHERE APPLICABLE WILL BE
- PROVIDED FOR EXPOSED, UNWRAPPED FOOD SHOWN AT SUCH AREA AS SALAD BARS, BUFFETS, AND CAFETERIA LINES.

# **PARTITION LEGEND:**

**NEW INTERIOR PARTITION** 2 x 6 WOOD STUDS

A-1: 5/8" GWB BOTH SIDES **A-2**: 5/8" GWB ONE SIDE

**NEW INTERIOR PARTITION** 2 x 4 WOOD STUDS, 5/8" GWB B-1: 5/8" GWB BOTH SIDES B-2: 5/8" GWB ONE SIDE

- DIMS. ARE FROM OUTSIDE FACE OF EXT. WALLS TO FIN. FACE OF
- NEW PARTITIONS, U.O.N.
- 2. REFER TO A701 FOR NOTES ON WALL TYPE / DETAILING.
- 3. ALL FOOD AND NON-FOOD SURFACES ARE TO BE SMOOTH, DURABLE, NON-ABSORBENT, LIGHT
- IN COLOR AND EASILY CLEANABLE PER LOCAL CITY HEALTH DEPARTMENT REGULATIONS. 4. REFER TO INT. ELEV. FOR
- CONDITIONS WITH TILE AS FIN. WALL SURFACE - PROVIDE 5/8" CONCRETE BACKER BOARD IN LIEU OF G.W.B.
- 5. BATHROOM WALLS SHOULD BE INSUL. WITH SOUND BATT INSUL. TO ACHIEVE AN STC RATING OF 50 6. ALL WALLS CONTAINED WITHIN OR

٥.	THE WITELS SOME THE WITHIN
	DIRECTLY FACING ROOM 2 - BA
	OF HOUSE TO UTILIZE FRP 1 IN
	LIEU OF 5/8" G.W.B.

**REVISION SCHEDULE** 

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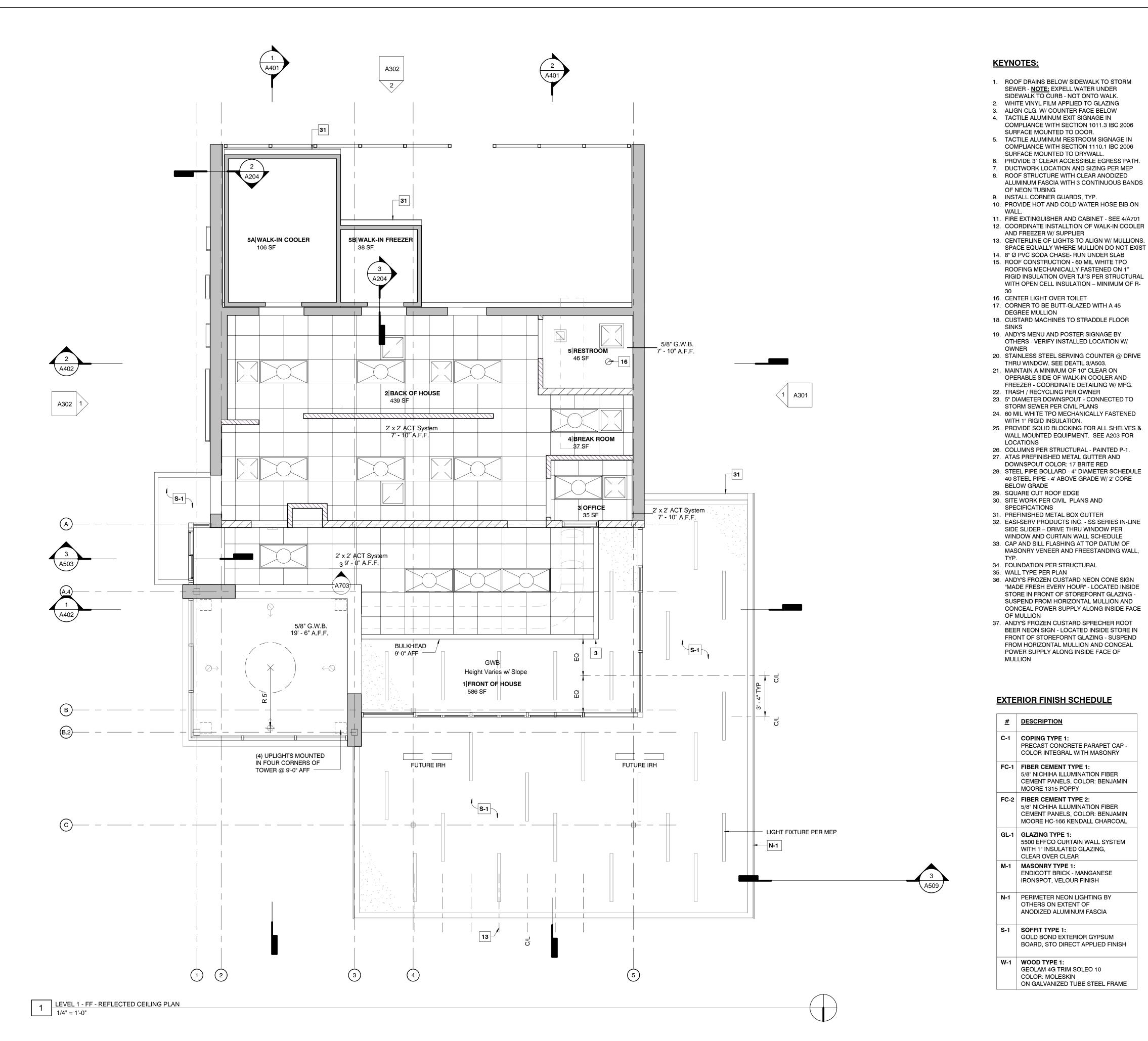
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FFE PLAN

Project Number: 236





PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

# MARCH 9, 2015

ARCHITECT **Hufft Projects** 

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Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

# NOTES:

# **PARTITION LEGEND:**

**NEW INTERIOR PARTITION** 2 x 6 WOOD STUDS A-1: 5/8" GWB BOTH SIDES

# **A-2**: 5/8" GWB ONE SIDE

**NEW INTERIOR PARTITION** 2 x 4 WOOD STUDS, 5/8" GWB B-1: 5/8" GWB BOTH SIDES

### B-2: 5/8" GWB ONE SIDE DIMS. ARE FROM OUTSIDE FACE

OF EXT. WALLS TO FIN. FACE OF NEW PARTITIONS, U.O.N.

# 2. REFER TO A701 FOR NOTES ON

WALL TYPE / DETAILING. 3. ALL FOOD AND NON-FOOD SURFACES ARE TO BE SMOOTH,

### IN COLOR AND EASILY CLEANABLE PER LOCAL CITY HEALTH DEPARTMENT REGULATIONS.

DURABLE, NON-ABSORBENT, LIGHT

CONCRETE BACKER BOARD IN LIEU

REFER TO INT. ELEV. FOR CONDITIONS WITH TILE AS FIN. WALL SURFACE - PROVIDE 5/8"

# OF G.W.B.

5. BATHROOM WALLS SHOULD BE INSUL. WITH SOUND BATT INSUL. TO ACHIEVE AN STC RATING OF 50 6. ALL WALLS CONTAINED WITHIN OR

### DIRECTLY FACING ROOM 2 - BACK OF HOUSE TO UTILIZE FRP 1 IN LIEU OF 5/8" G.W.B.

PRECAST CONCRETE PARAPET CAP COLOR INTEGRAL WITH MASONRY

5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN

5/8" NICHIHA ILLUMINATION FIBER

CEMENT PANELS, COLOR: BENJAMIN MOORE HC-166 KENDALL CHARCOAL

5500 EFFCO CURTAIN WALL SYSTEM WITH 1" INSULATED GLAZING,

ENDICOTT BRICK - MANGANESE

GOLD BOND EXTERIOR GYPSUM BOARD, STO DIRECT APPLIED FINISH

GEOLAM 4G TRIM SOLEO 10

ON GALVANIZED TUBE STEEL FRAME

COLOR: MOLESKIN

IRONSPOT, VELOUR FINISH

OTHERS ON EXTENT OF ANODIZED ALUMINUM FASCIA

MOORE 1315 POPPY

CLEAR OVER CLEAR

# REVISION SCHEDULE

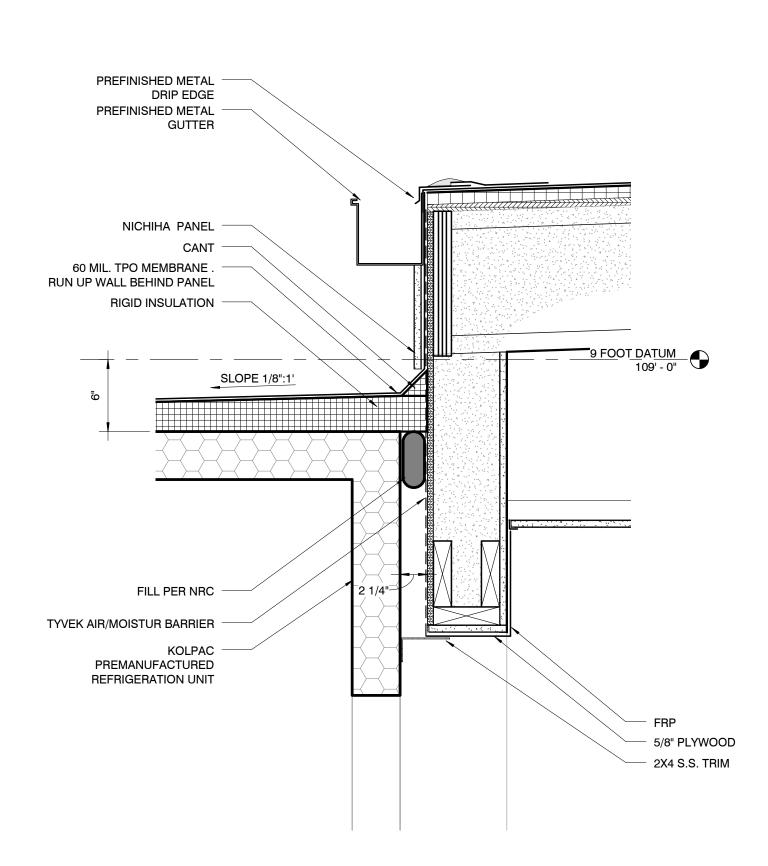
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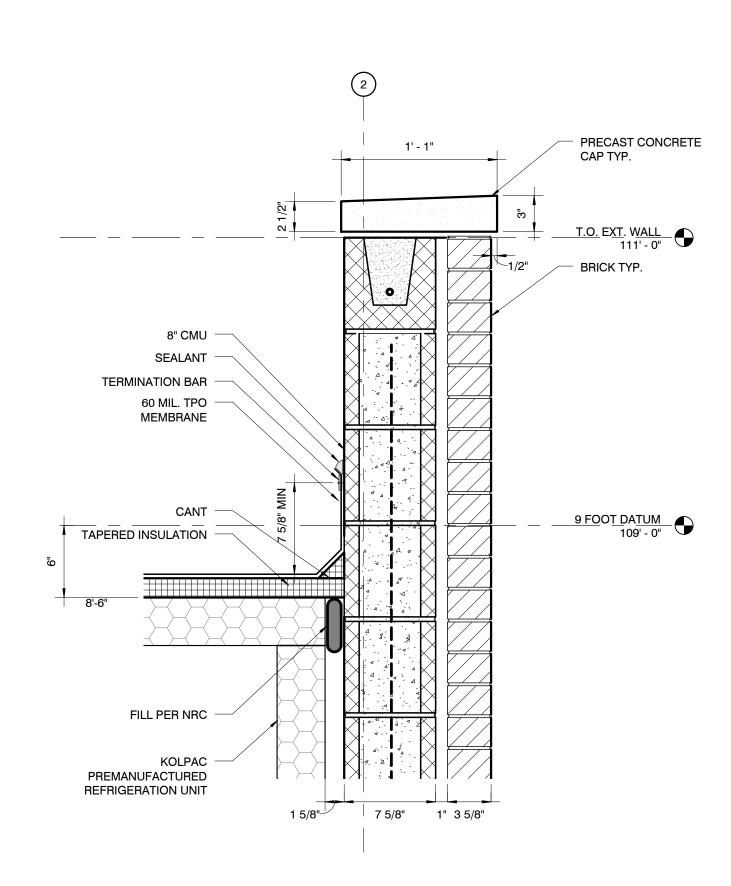
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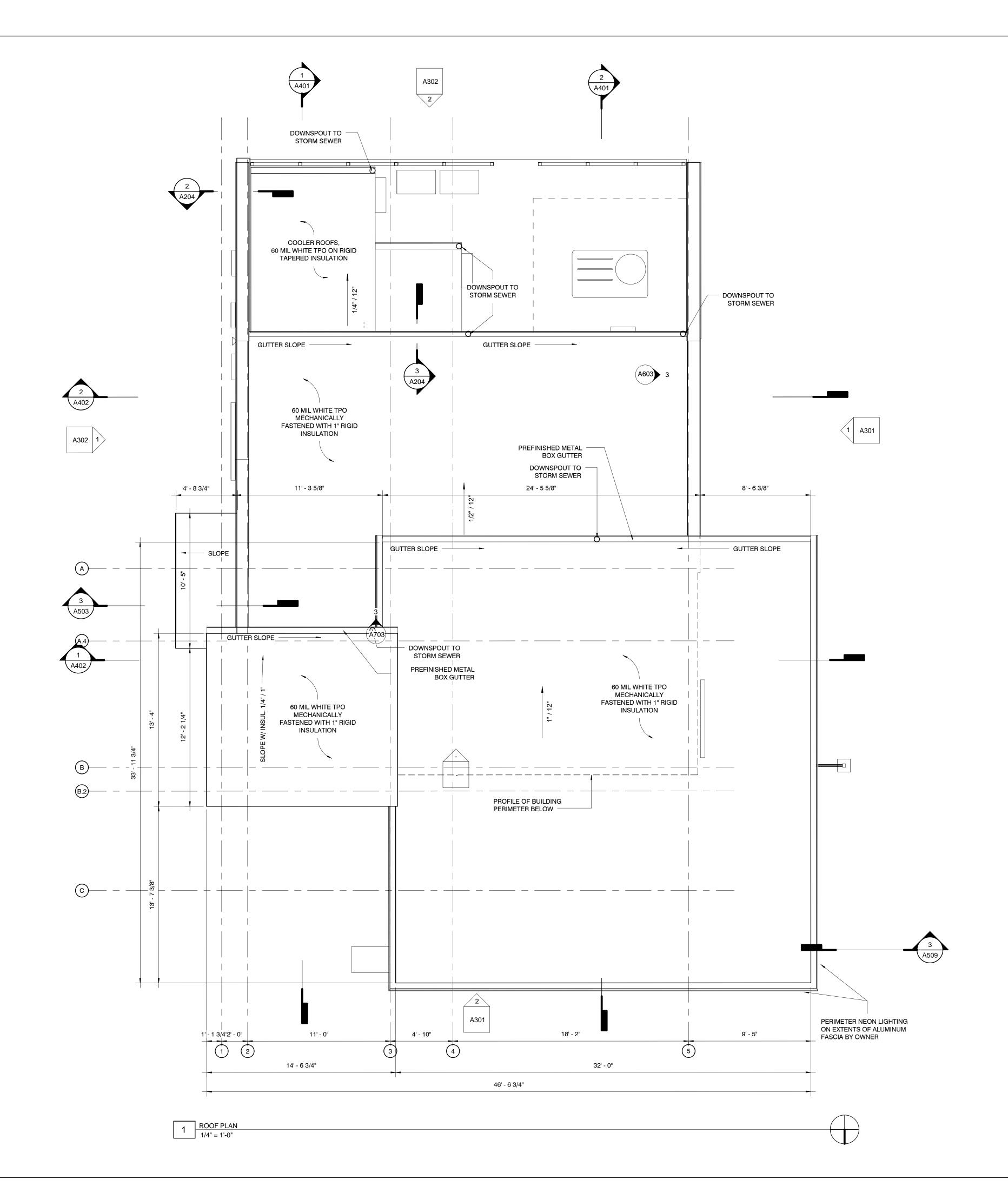
REFLECTED CEILING PLAN



3 COOLER ROOF @ FRAMED WALL
1 1/2" = 1'-0"



2 COOLER ROOF @ CMU WALL
1 1/2" = 1'-0"





PROJECT INFORMATION

ANDY'S FROZEN CUSTARD CONWAY

275 Dave Ward Dr., Conway, AR 72034

ISSUE

**BID / PERMIT SET** 

MARCH 9, 2015

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NOTES:

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2 x 6 WOOD STUDS
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- NEW PARTITIONS, U.O.N.
- REFER TO A701 FOR NOTES ON WALL TYPE / DETAILING.
   ALL FOOD AND NON-FOOD
- SURFACES ARE TO BE SMOOTH, DURABLE, NON-ABSORBENT, LIGHT IN COLOR AND EASILY CLEANABLE PER LOCAL CITY HEALTH DEPARTMENT REGULATIONS.
- 4. REFER TO INT. ELEV. FOR CONDITIONS WITH TILE AS FIN. WALL SURFACE PROVIDE 5/8" CONCRETE BACKER BOARD IN LIEU
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  6. ALL WALLS CONTAINED WITHIN OR DIRECTLY FACING ROOM 2 BACK OF HOUSE TO UTILIZE FRP 1 IN

LIEU OF 5/8" G.W.B.

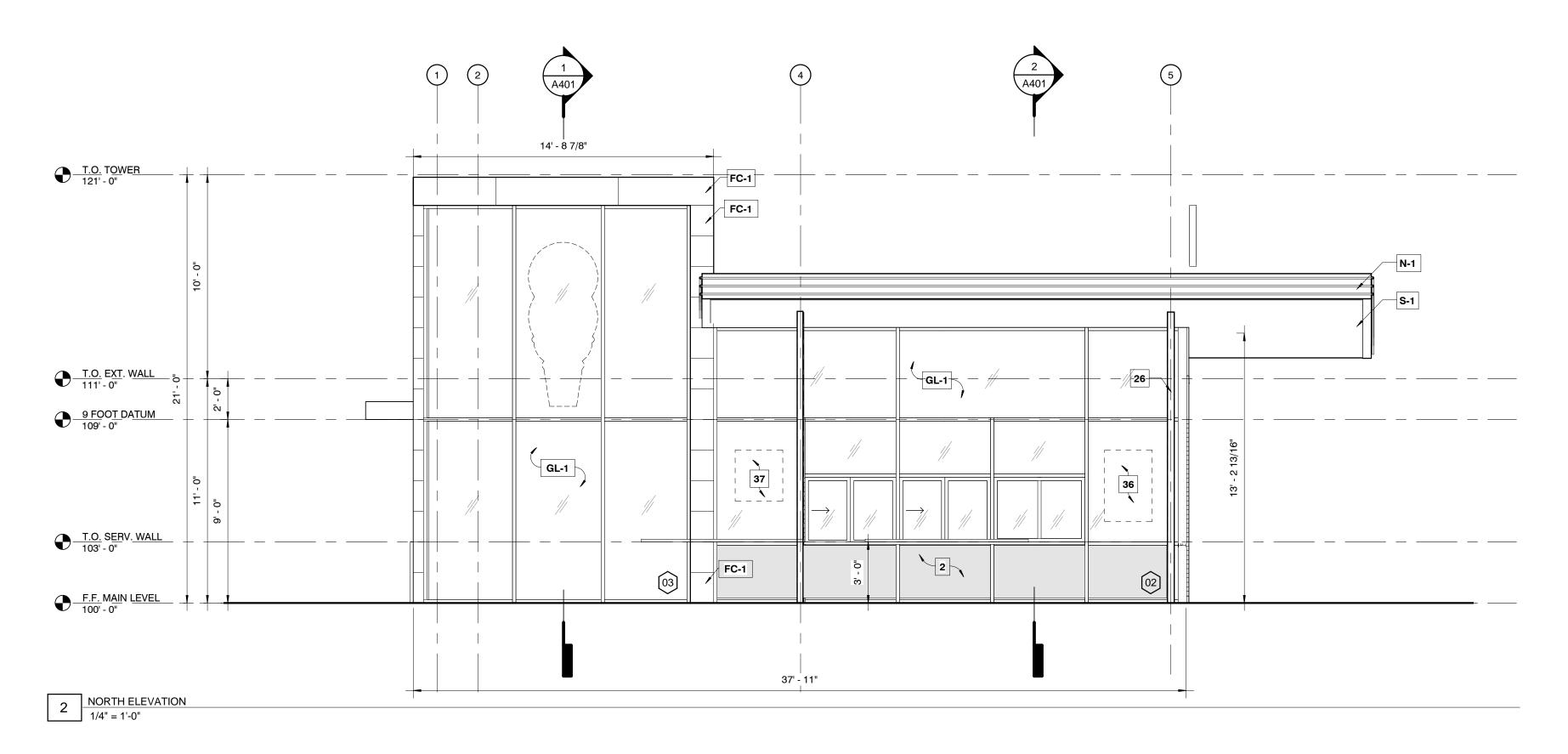
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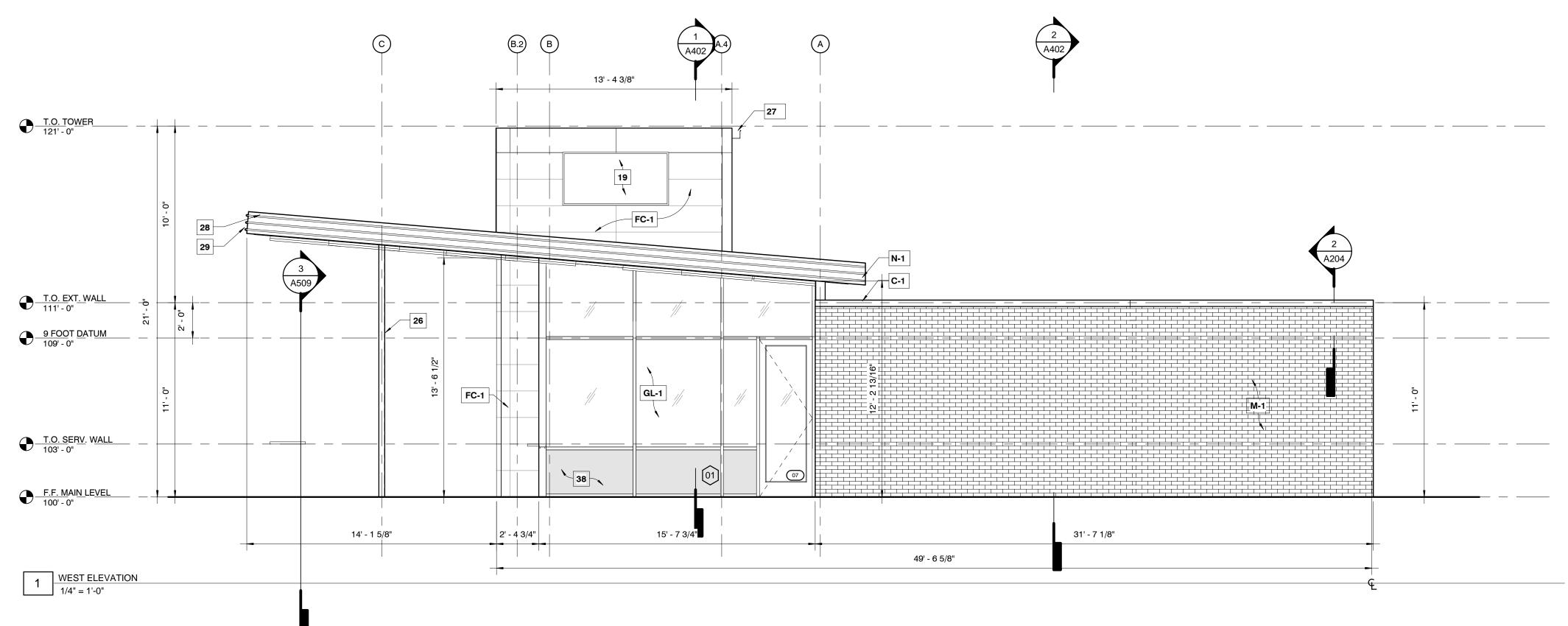
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Drawn By: Author Architect:
Project Number: 236 KS License Number:



SHEET ROOF PLAN







### **KEYNOTES:**

- ROOF DRAINS BELOW SIDEWALK TO STORM SEWER - **NOTE:** EXPELL WATER UNDER SIDEWALK TO CURB - NOT ONTO WALK.
- 2. WHITE VINYL FILM APPLIED TO GLAZING 3. ALIGN CLG. W/ COUNTER FACE BELOW 4. TACTILE ALUMINUM EXIT SIGNAGE IN
- COMPLIANCE WITH SECTION 1011.3 IBC 2006 SURFACE MOUNTED TO DOOR. 5. TACTILE ALUMINUM RESTROOM SIGNAGE IN COMPLIANCE WITH SECTION 1110.1 IBC 2006
- SURFACE MOUNTED TO DRYWALL. 6. PROVIDE 3' CLEAR ACCESSIBLE EGRESS PATH.
- DUCTWORK LOCATION AND SIZING PER MEP 8. ROOF STRUCTURE WITH CLEAR ANODIZED ALUMINUM FASCIA WITH 3 CONTINUOUS BANDS
- OF NEON TUBING 9. INSTALL CORNER GUARDS, TYP. 10. PROVIDE HOT AND COLD WATER HOSE BIB ON

WITH OPEN CELL INSULATION – MINIMUM OF R-

- 11. FIRE EXTINGUISHER AND CABINET SEE 4/A701 12. COORDINATE INSTALLTION OF WALK-IN COOLER
- AND FREEZER W/ SUPPLIER 13. CENTERLINE OF LIGHTS TO ALIGN W/ MULLIONS. SPACE EQUALLY WHERE MULLION DO NOT EXIST
- 14. 8" Ø PVC SODA CHASE- RUN UNDER SLAB 15. ROOF CONSTRUCTION - 60 MIL WHITE TPO ROOFING MECHANICALLY FASTENED ON 1" RIGID INSULATION OVER TJI'S PER STRUCTURAL
- 16. CENTER LIGHT OVER TOILET 17. CORNER TO BE BUTT-GLAZED WITH A 45
- DEGREE MULLION 18. CUSTARD MACHINES TO STRADDLE FLOOR
- 19. ANDY'S MENU AND POSTER SIGNAGE BY
- OTHERS VERIFY INSTALLED LOCATION W/ 20. STAINLESS STEEL SERVING COUNTER @ DRIVE
- THRU WINDOW. SEE DEATIL 3/A503. 21. MAINTAIN A MINIMUM OF 10" CLEAR ON OPERABLE SIDE OF WALK-IN COOLER AND
- FREEZER COORDINATE DETAILING W/ MFG. 22. TRASH / RECYCLING PER OWNER
- 23. 5" DIAMETER DOWNSPOUT CONNECTED TO STORM SEWER PER CIVIL PLANS
- 24. 60 MIL WHITE TPO MECHANICALLY FASTENED WITH 1" RIGID INSULATION. 25. PROVIDE SOLID BLOCKING FOR ALL SHELVES &
- WALL MOUNTED EQUIPMENT. SEE A203 FOR 26. COLUMNS PER STRUCTURAL - PAINTED P-1.
- 27. ATAS PREFINISHED METAL GUTTER AND DOWNSPOUT COLOR: 17 BRITE RED 28. STEEL PIPE BOLLARD - 4" DIAMETER SCHEDULE 40 STEEL PIPE - 4' ABOVE GRADE W/ 2' CORE
- **BELOW GRADE**
- 29. SQUARE CUT ROOF EDGE 30. SITE WORK PER CIVIL PLANS AND
- SPECIFICATIONS
- 31. PREFINISHED METAL BOX GUTTER 32. EASI-SERV PRODUCTS INC. - SS SERIES IN-LINE SIDE SLIDER – DRIVE THRU WINDOW PER
- WINDOW AND CURTAIN WALL SCHEDULE 33. CAP AND SILL FLASHING AT TOP DATUM OF MASONRY VENEER AND FREESTANDING WALL,
- 34. FOUNDATION PER STRUCTURAL
- 35. WALL TYPE PER PLAN 36. ANDY'S FROZEN CUSTARD NEON CONE SIGN "MADE FRESH EVERY HOUR" - LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING -SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION
- 37. ANDY'S FROZEN CUSTARD SPRECHER ROOT BEER NEON SIGN LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING - SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION

### PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

# MARCH 9, 2015

### ARCHITECT

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# EXTERIOR FINISH SCHEDULE

<u>#</u>	DESCRIPTION
C-1	COPING TYPE 1: PRECAST CONCRETE PARAPET CAP - COLOR INTEGRAL WITH MASONRY
FC-1	FIBER CEMENT TYPE 1: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE 1315 POPPY
FC-2	FIBER CEMENT TYPE 2: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE HC-166 KENDALL CHARCOAL
GL-1	GLAZING TYPE 1: 5500 EFFCO CURTAIN WALL SYSTEM WITH 1" INSULATED GLAZING, CLEAR OVER CLEAR
M-1	MASONRY TYPE 1: ENDICOTT BRICK - MANGANESE IRONSPOT, VELOUR FINISH
N-1	PERIMETER NEON LIGHTING BY OTHERS ON EXTENT OF ANODIZED ALUMINUM FASCIA
S-1	SOFFIT TYPE 1: GOLD BOND EXTERIOR GYPSUM BOARD, STO DIRECT APPLIED FINISH
W-1	WOOD TYPE 1: GEOLAM 4G TRIM SOLEO 10 COLOR: MOLESKIN ON GALVANIZED TUBE STEEL FRAME

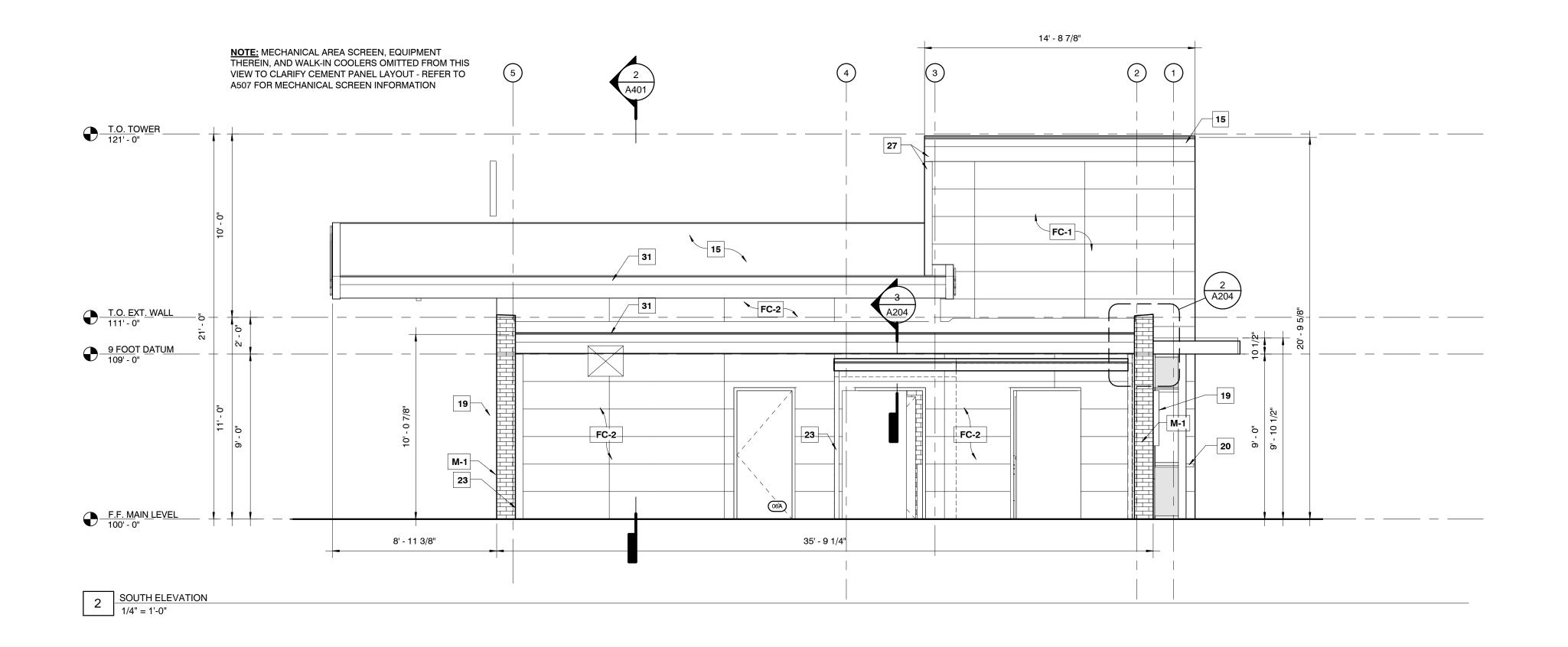
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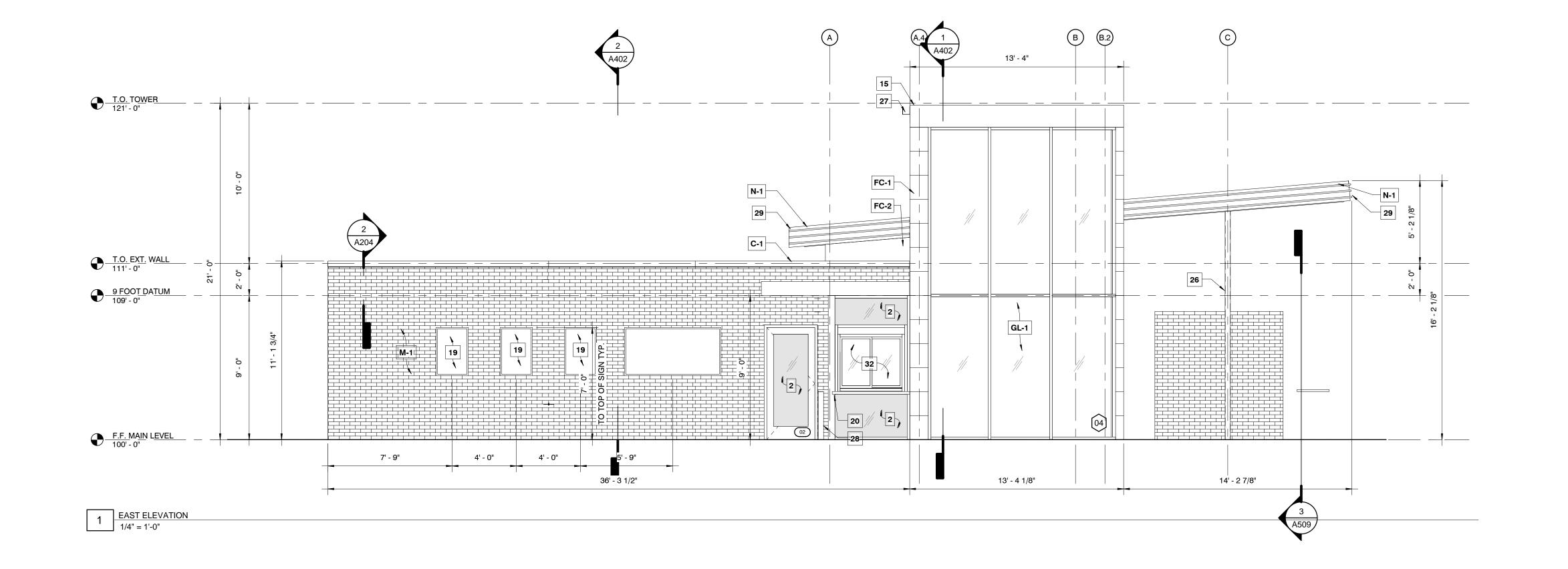


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SHEET ELEVATIONS

Drawn By: JDT Project Number: 236







CONWAY

PROJECT INFORMATION

BID / PERMIT SET

MARCH 9, 2015

ARCHITECT

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# **KEYNOTES:**

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- 2. WHITE VINYL FILM APPLIED TO GLAZING 3. ALIGN CLG. W/ COUNTER FACE BELOW 4. TACTILE ALUMINUM EXIT SIGNAGE IN COMPLIANCE WITH SECTION 1011.3 IBC 2006
- SURFACE MOUNTED TO DOOR. 5. TACTILE ALUMINUM RESTROOM SIGNAGE IN COMPLIANCE WITH SECTION 1110.1 IBC 2006 SURFACE MOUNTED TO DRYWALL.
- 6. PROVIDE 3' CLEAR ACCESSIBLE EGRESS PATH. 7. DUCTWORK LOCATION AND SIZING PER MEP 8. ROOF STRUCTURE WITH CLEAR ANODIZED
- ALUMINUM FASCIA WITH 3 CONTINUOUS BANDS OF NEON TUBING 9. INSTALL CORNER GUARDS, TYP.

10. PROVIDE HOT AND COLD WATER HOSE BIB ON

- 11. FIRE EXTINGUISHER AND CABINET SEE 4/A701
- 12. COORDINATE INSTALLTION OF WALK-IN COOLER AND FREEZER W/ SUPPLIER
- 13. CENTERLINE OF LIGHTS TO ALIGN W/ MULLIONS. SPACE EQUALLY WHERE MULLION DO NOT EXIST
- 14. 8" Ø PVC SODA CHASE- RUN UNDER SLAB
- 15. ROOF CONSTRUCTION 60 MIL WHITE TPO **ROOFING MECHANICALLY FASTENED ON 1"** RIGID INSULATION OVER TJI'S PER STRUCTURAL WITH OPEN CELL INSULATION – MINIMUM OF R-
- 16. CENTER LIGHT OVER TOILET 17. CORNER TO BE BUTT-GLAZED WITH A 45
- DEGREE MULLION 18. CUSTARD MACHINES TO STRADDLE FLOOR
- 19. ANDY'S MENU AND POSTER SIGNAGE BY OTHERS - VERIFY INSTALLED LOCATION W/
- 20. STAINLESS STEEL SERVING COUNTER @ DRIVE THRU WINDOW. SEE DEATIL 3/A503. 21. MAINTAIN A MINIMUM OF 10" CLEAR ON
- OPERABLE SIDE OF WALK-IN COOLER AND FREEZER - COORDINATE DETAILING W/ MFG.

22. TRASH / RECYCLING PER OWNER

- 23. 5" DIAMETER DOWNSPOUT CONNECTED TO STORM SEWER PER CIVIL PLANS
- 24. 60 MIL WHITE TPO MECHANICALLY FASTENED WITH 1" RIGID INSULATION. 25. PROVIDE SOLID BLOCKING FOR ALL SHELVES &
- WALL MOUNTED EQUIPMENT. SEE A203 FOR LOCATIONS
- 26. COLUMNS PER STRUCTURAL PAINTED P-1. 27. ATAS PREFINISHED METAL GUTTER AND
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- 29. SQUARE CUT ROOF EDGE 30. SITE WORK PER CIVIL PLANS AND
- SPECIFICATIONS 31. PREFINISHED METAL BOX GUTTER
- 32. EASI-SERV PRODUCTS INC. SS SERIES IN-LINE SIDE SLIDER – DRIVE THRU WINDOW PER WINDOW AND CURTAIN WALL SCHEDULE
- 33. CAP AND SILL FLASHING AT TOP DATUM OF MASONRY VENEER AND FREESTANDING WALL,
- 34. FOUNDATION PER STRUCTURAL
- 35. WALL TYPE PER PLAN
- 36. ANDY'S FROZEN CUSTARD NEON CONE SIGN "MADE FRESH EVERY HOUR" - LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING -SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION
- 37. ANDY'S FROZEN CUSTARD SPRECHER ROOT BEER NEON SIGN - LOCATED INSIDE STORE IN FRONT OF STOREFORNT GLAZING - SUSPEND FROM HORIZONTAL MULLION AND CONCEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION

- **EXTERIOR FINISH SCHEDULE** # DESCRIPTION C-1 COPING TYPE 1: PRECAST CONCRETE PARAPET CAP -COLOR INTEGRAL WITH MASONRY FC-1 FIBER CEMENT TYPE 1: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE 1315 POPPY FC-2 FIBER CEMENT TYPE 2: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE HC-166 KENDALL CHARCOAL GL-1 GLAZING TYPE 1: 5500 EFFCO CURTAIN WALL SYSTEM
- WITH 1" INSULATED GLAZING, CLEAR OVER CLEAR M-1 MASONRY TYPE 1: ENDICOTT BRICK - MANGANESE IRONSPOT, VELOUR FINISH
- N-1 PERIMETER NEON LIGHTING BY OTHERS ON EXTENT OF ANODIZED ALUMINUM FASCIA
- S-1 SOFFIT TYPE 1: GOLD BOND EXTERIOR GYPSUM BOARD, STO DIRECT APPLIED FINISH
- W-1 WOOD TYPE 1: GEOLAM 4G TRIM SOLEO 10 COLOR: MOLESKIN ON GALVANIZED TUBE STEEL FRAME

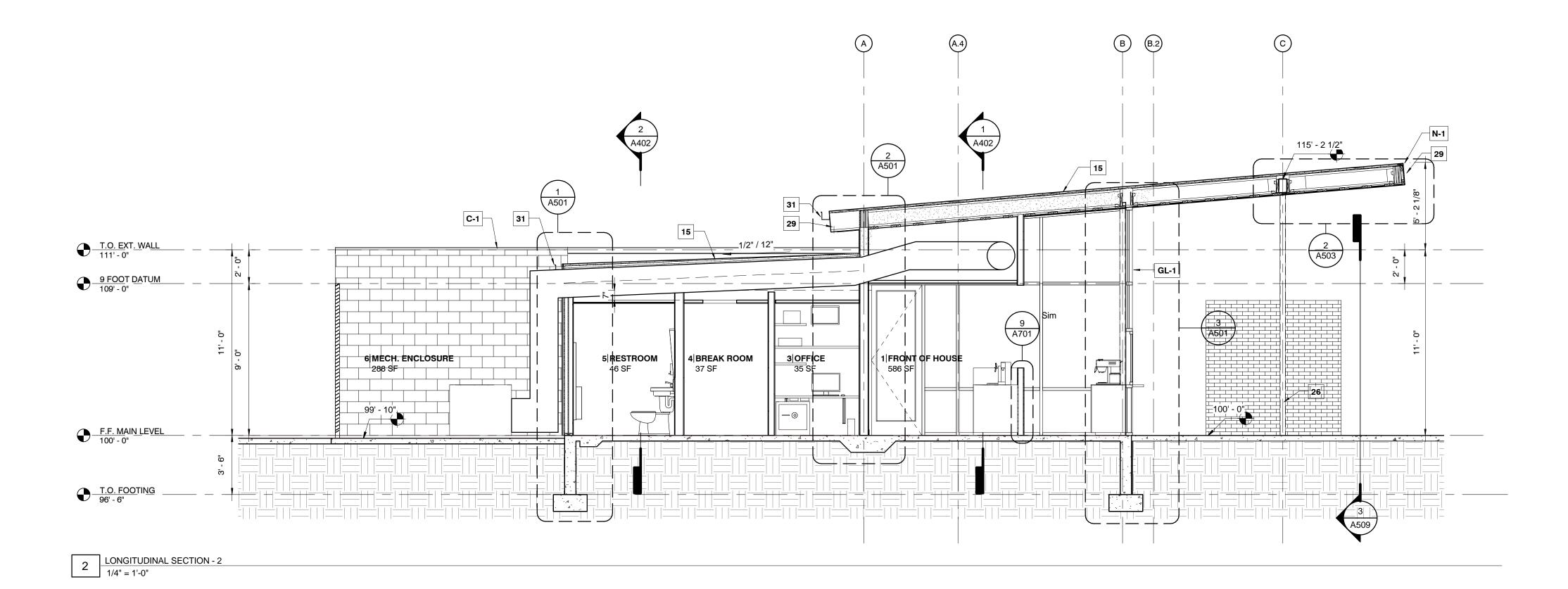
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NO.	DATE	ISSUE

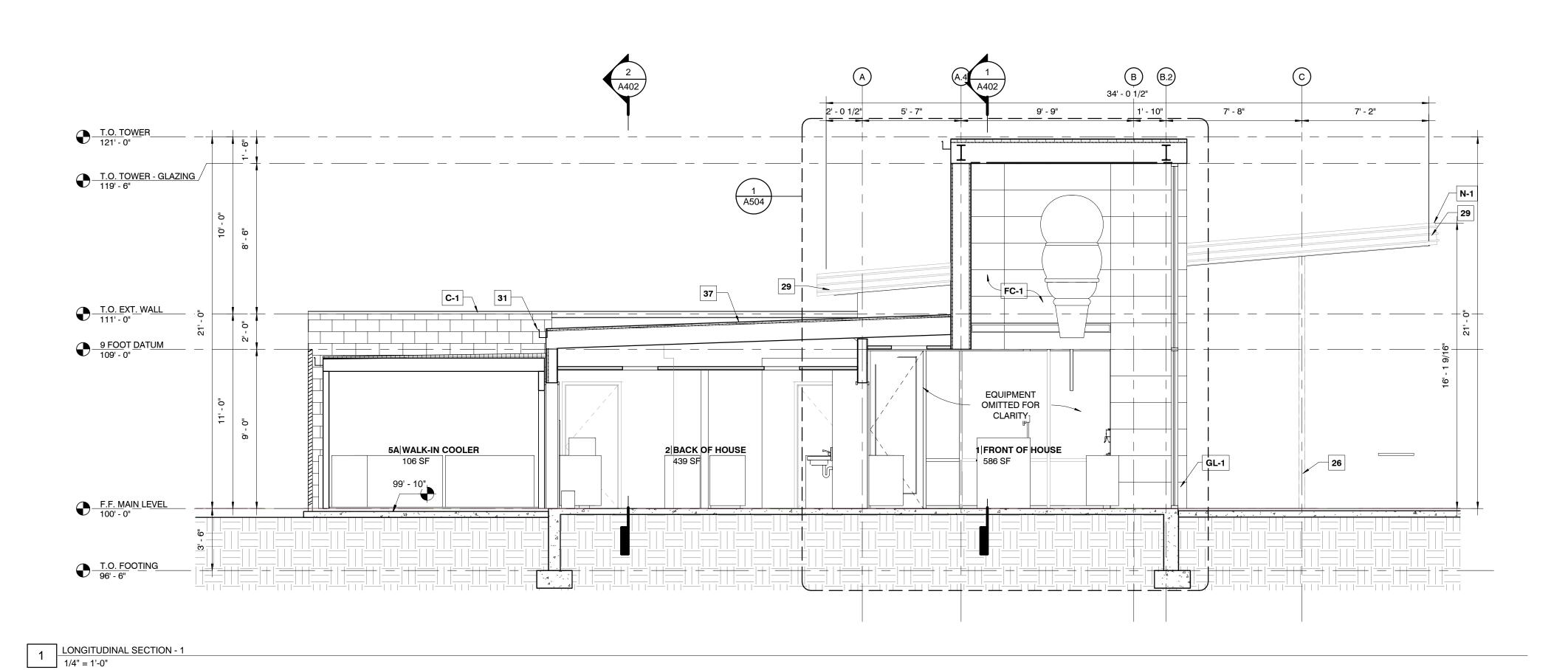
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**ELEVATIONS** 





# **KEYNOTES:**

- 1. ROOF DRAINS BELOW SIDEWALK TO STORM SEWER - **NOTE:** EXPELL WATER UNDER SIDEWALK TO CURB - NOT ONTO WALK.
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PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

**ARCHITECT** 

MARCH 9, 2015

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3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804

P: 913-322-1400 / www.mfec.com

# **EXTERIOR FINISH SCHEDULE**

<u>#</u>	DESCRIPTION
C-1	COPING TYPE 1: PRECAST CONCRETE PARAPET CAP COLOR INTEGRAL WITH MASONRY
FC-1	FIBER CEMENT TYPE 1: 5/8" NICHIHA ILLUMINATION FIBER CEMENT PANELS, COLOR: BENJAMIN MOORE 1315 POPPY
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5500 EFFCO CURTAIN WALL SYSTEM

IRONSPOT, VELOUR FINISH N-1 PERIMETER NEON LIGHTING BY OTHERS ON EXTENT OF

ANODIZED ALUMINUM FASCIA

- S-1 SOFFIT TYPE 1: GOLD BOND EXTERIOR GYPSUM BOARD, STO DIRECT APPLIED FINISH
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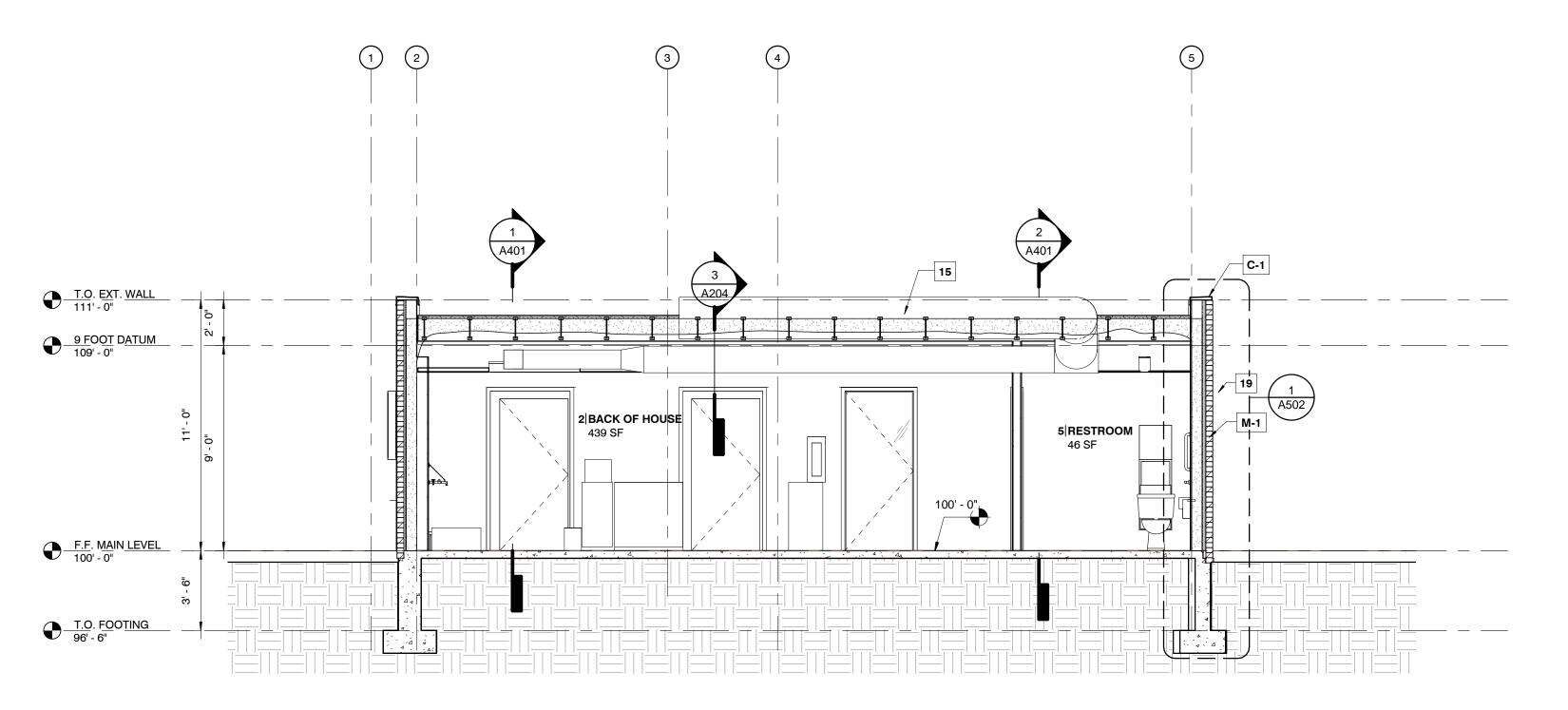
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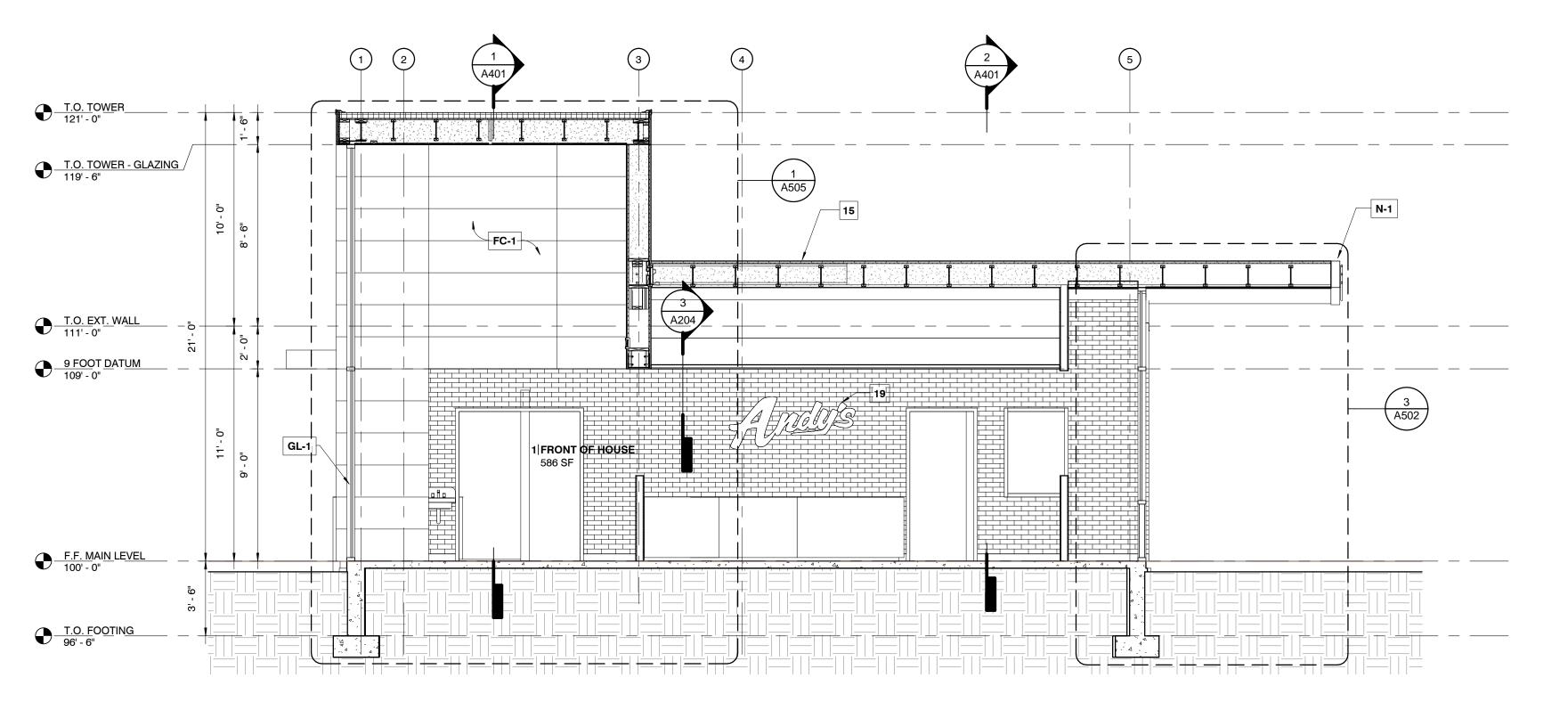


SECTIONS

Project Number: 236



TRANSVERSE SECTION - 2 2 TRANSVERS



1 TRANSVERSE SECTION - 1

**KEYNOTES:** 

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LOCATIONS 26. COLUMNS PER STRUCTURAL - PAINTED P-1.

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PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

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MARCH 9, 2015

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www.hufft.com CIVIL ENGINEER:

12. COORDINATE INSTALLTION OF WALK-IN COOLER AND FREEZER W/ SUPPLIER

14. 8" Ø PVC SODA CHASE- RUN UNDER SLAB

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18. CUSTARD MACHINES TO STRADDLE FLOOR

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**BELOW GRADE** 

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CONCEAL POWER SUPPLY ALONG INSIDE FACE

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COLOR INTEGRAL WITH MASONRY

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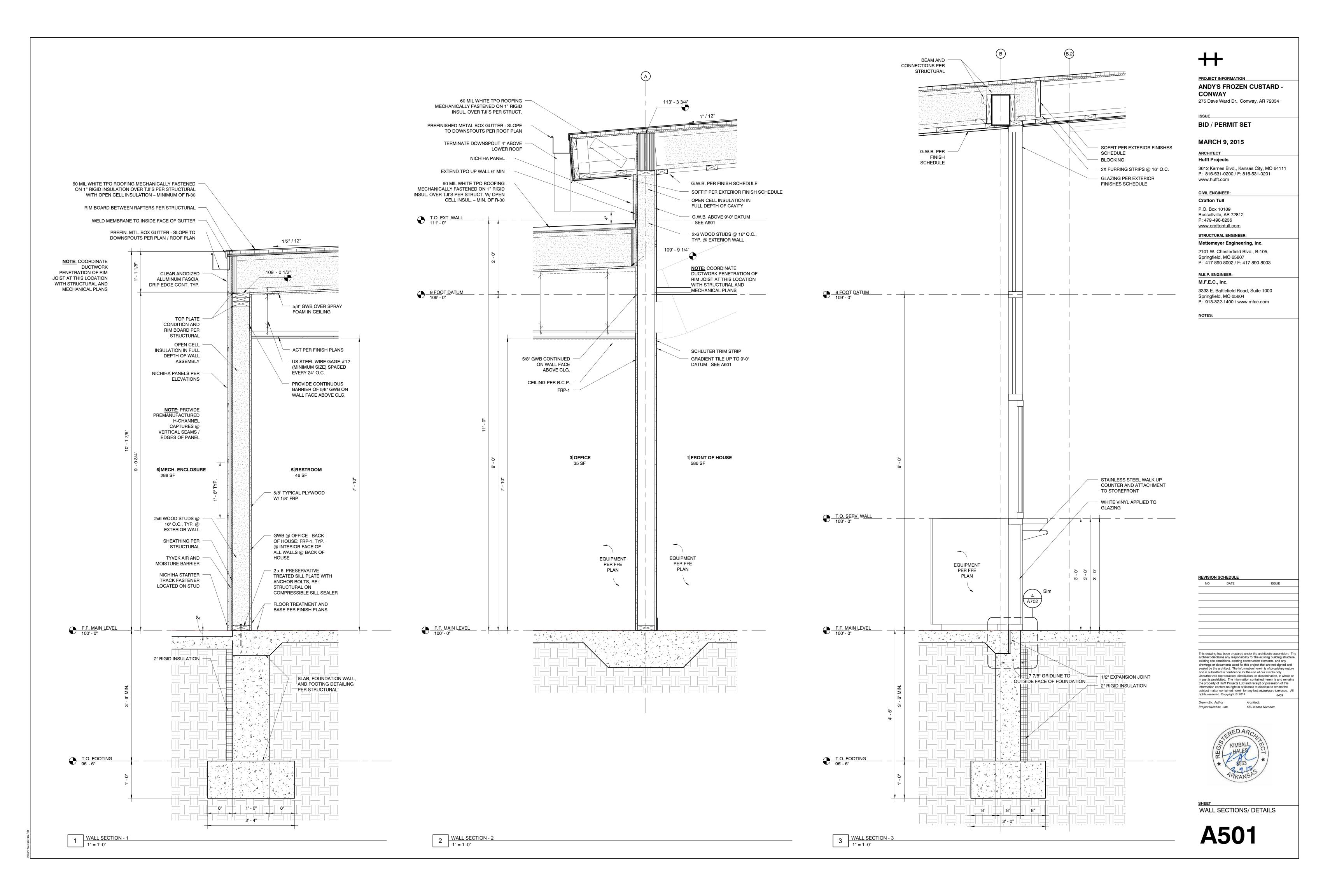
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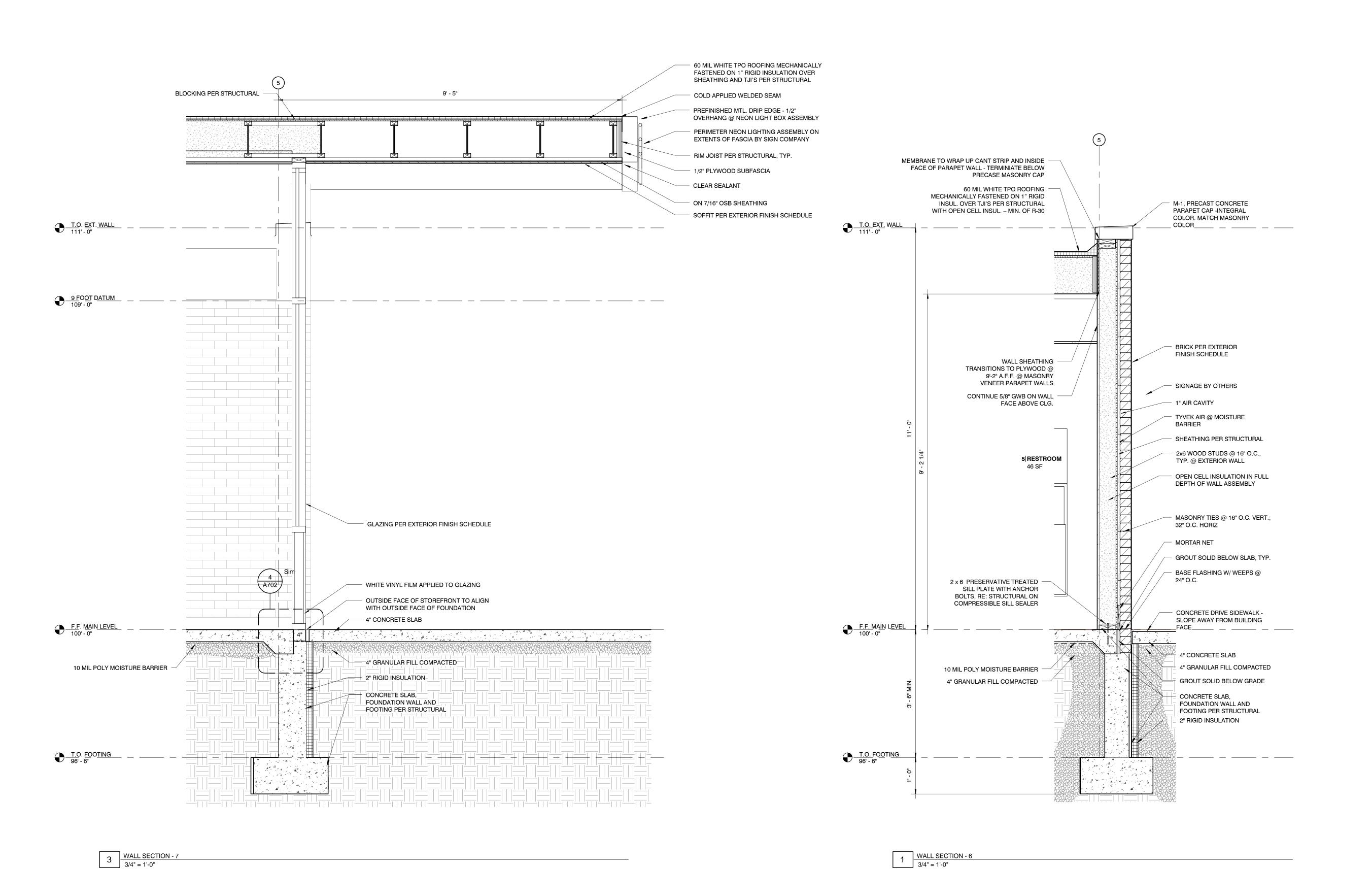
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SECTIONS

Project Number: 236







PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

MARCH 9, 2015

ARCHITECT

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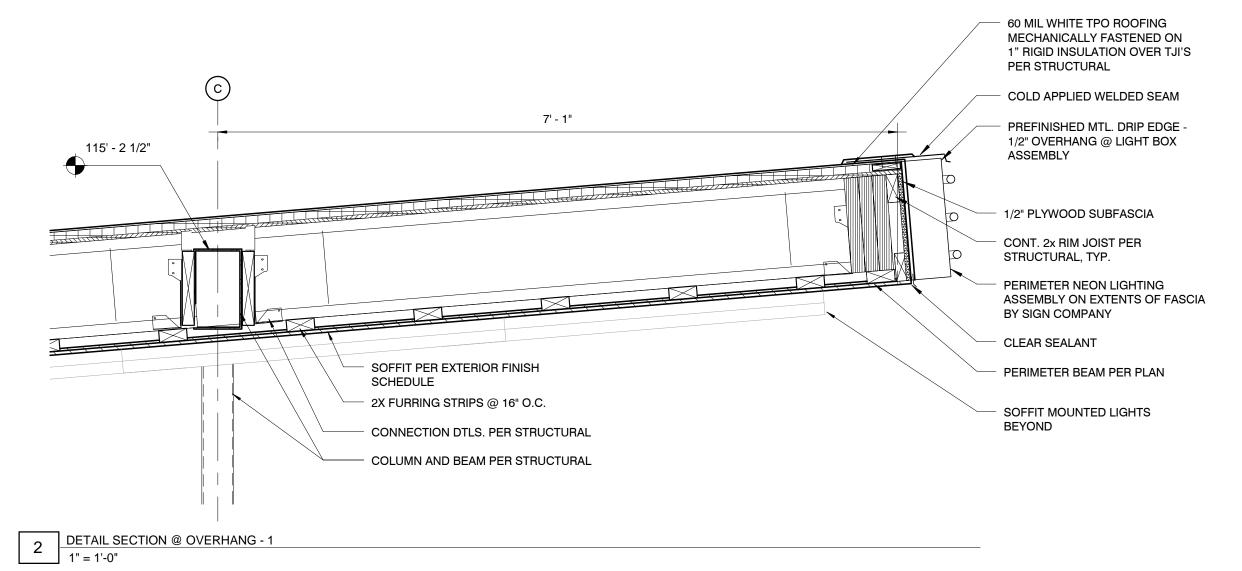
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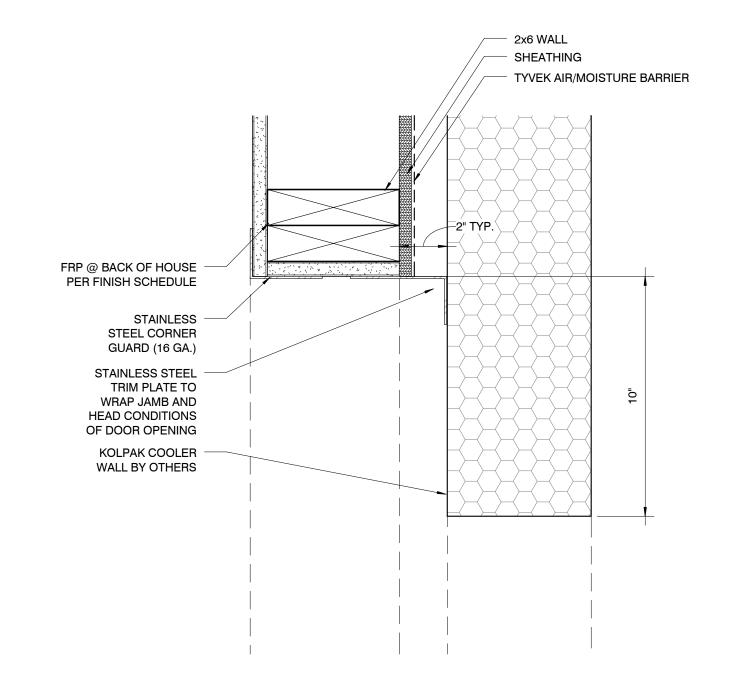
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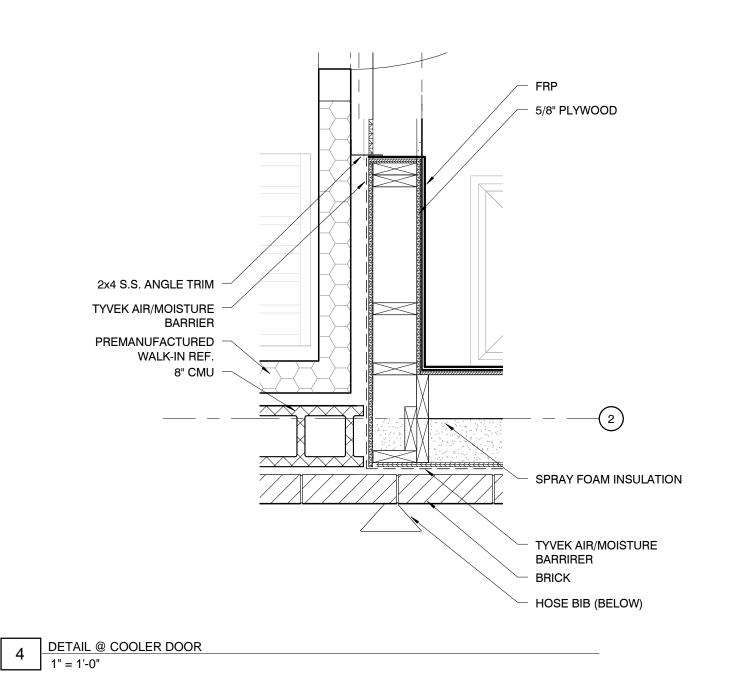


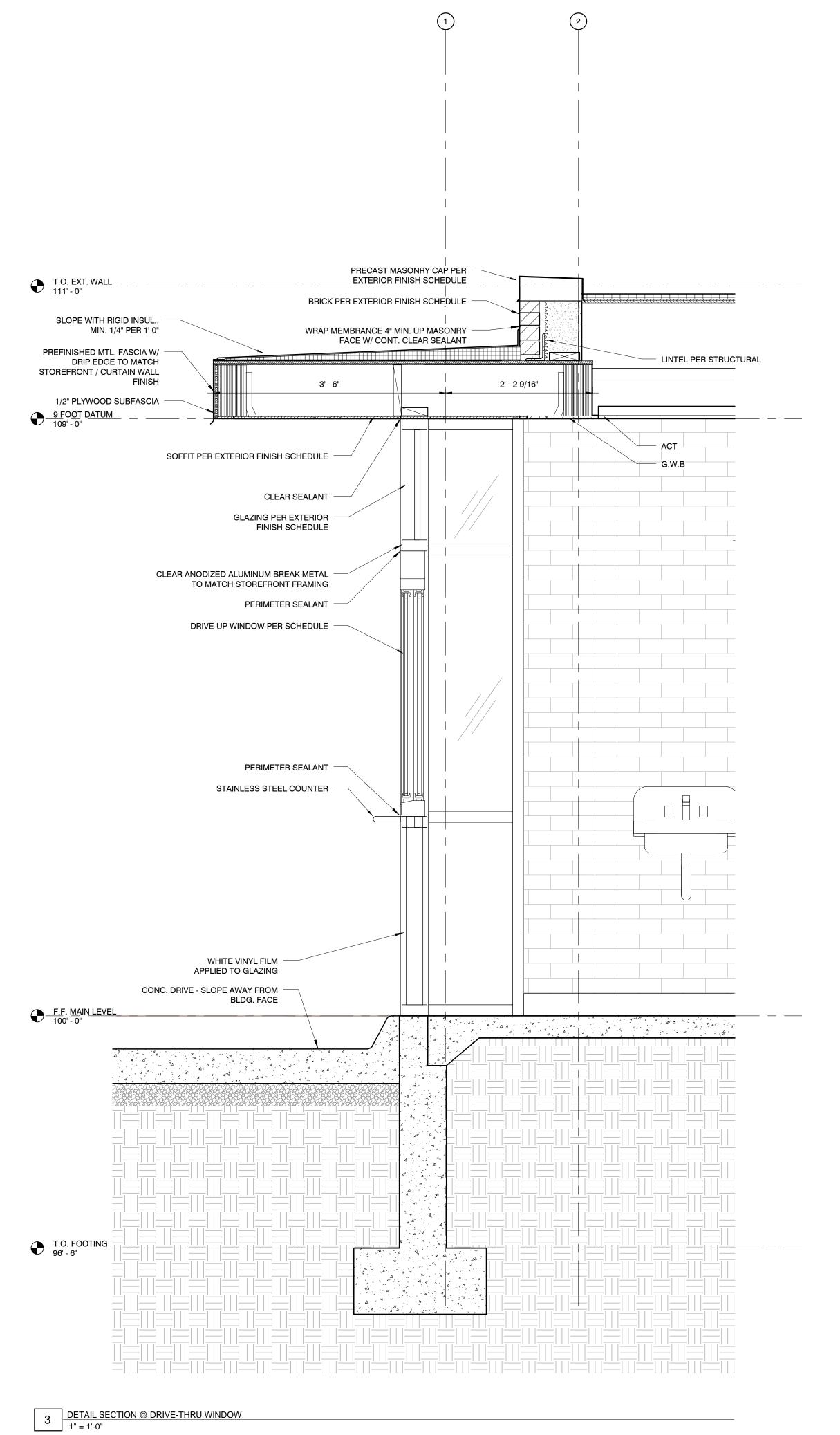
SHEET
WALL SECTIONS/ DETAILS





1 DETAIL @ WALK-IN COOLER THRESHOLD
3" = 1'-0"





PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

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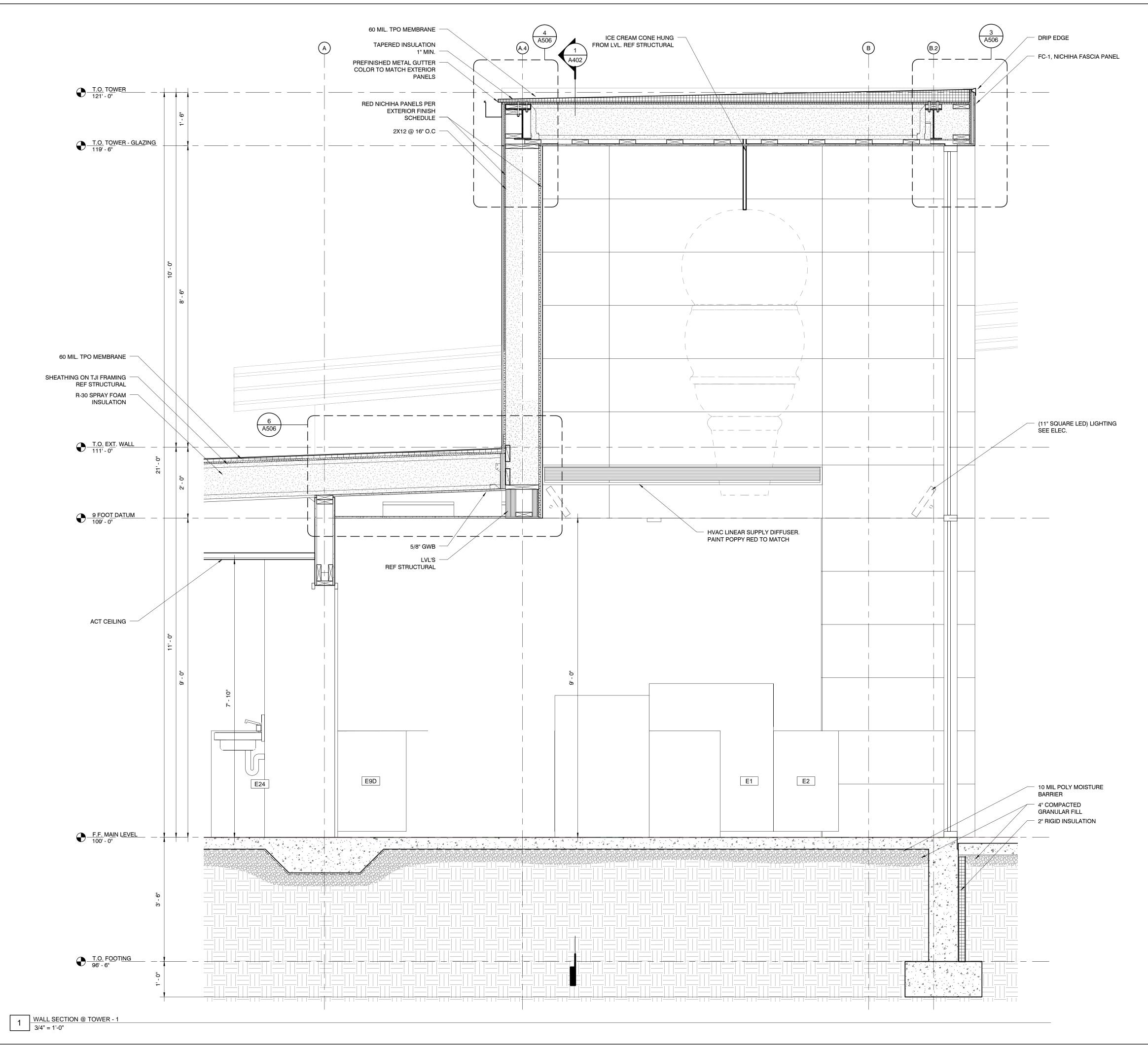
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SHEET
WALL SECTIONS/ DETAILS



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY

275 Dave Ward Dr., Conway, AR 72034

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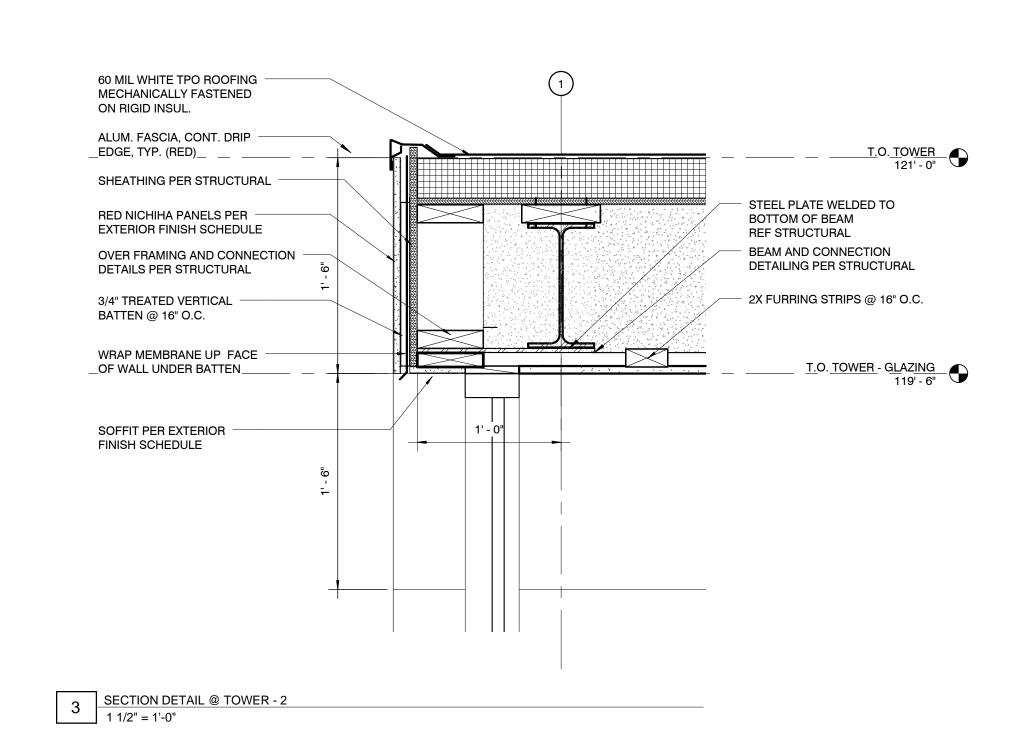
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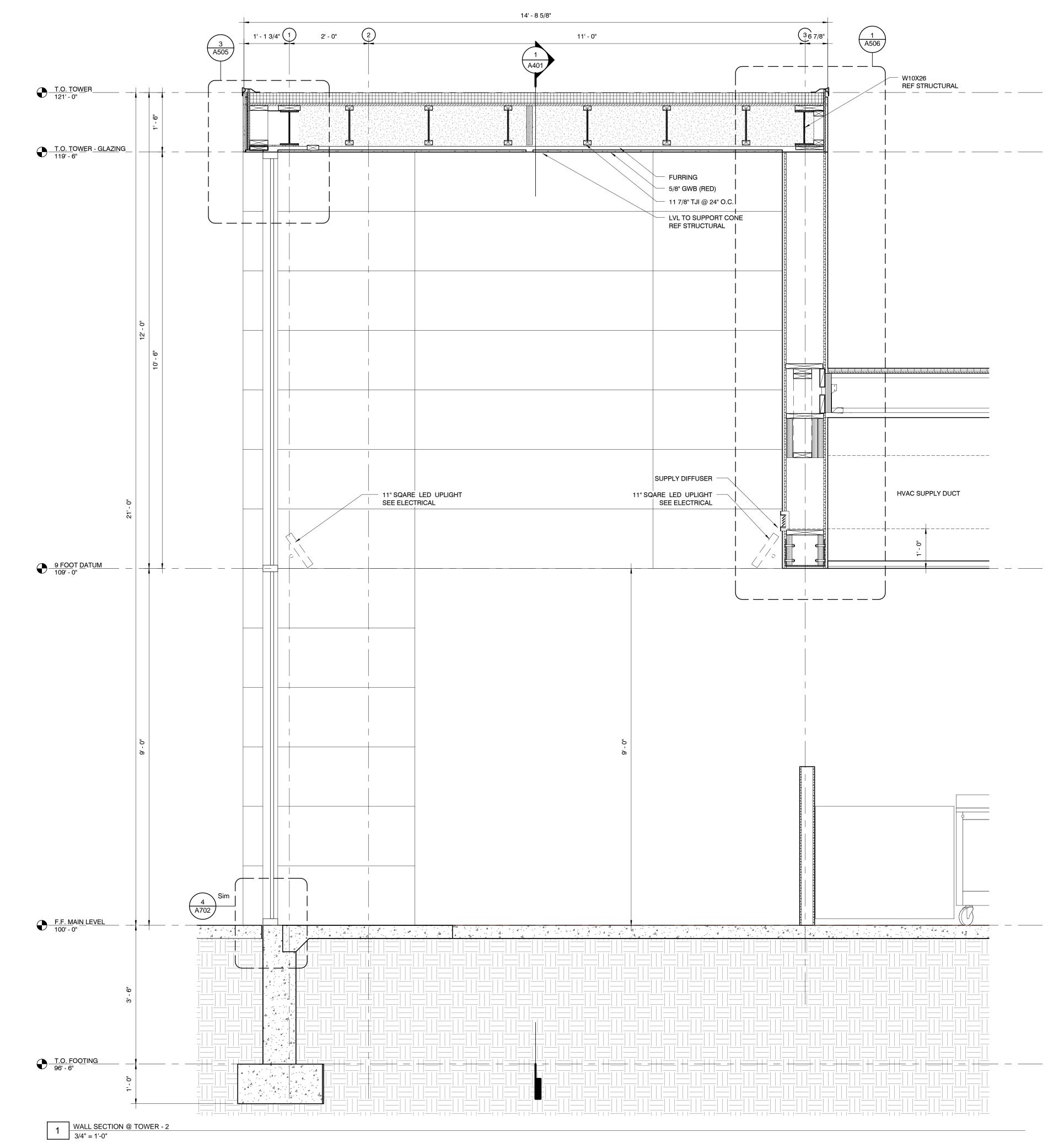
Architect: KS License Number:

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SHEET
WALL SECTIONS/ DETAILS





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PROJECT INFORMATION

ANDY'S FROZEN CUSTARD CONWAY

275 Dave Ward Dr., Conway, AR 72034

ISSUE

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ARCHITECT

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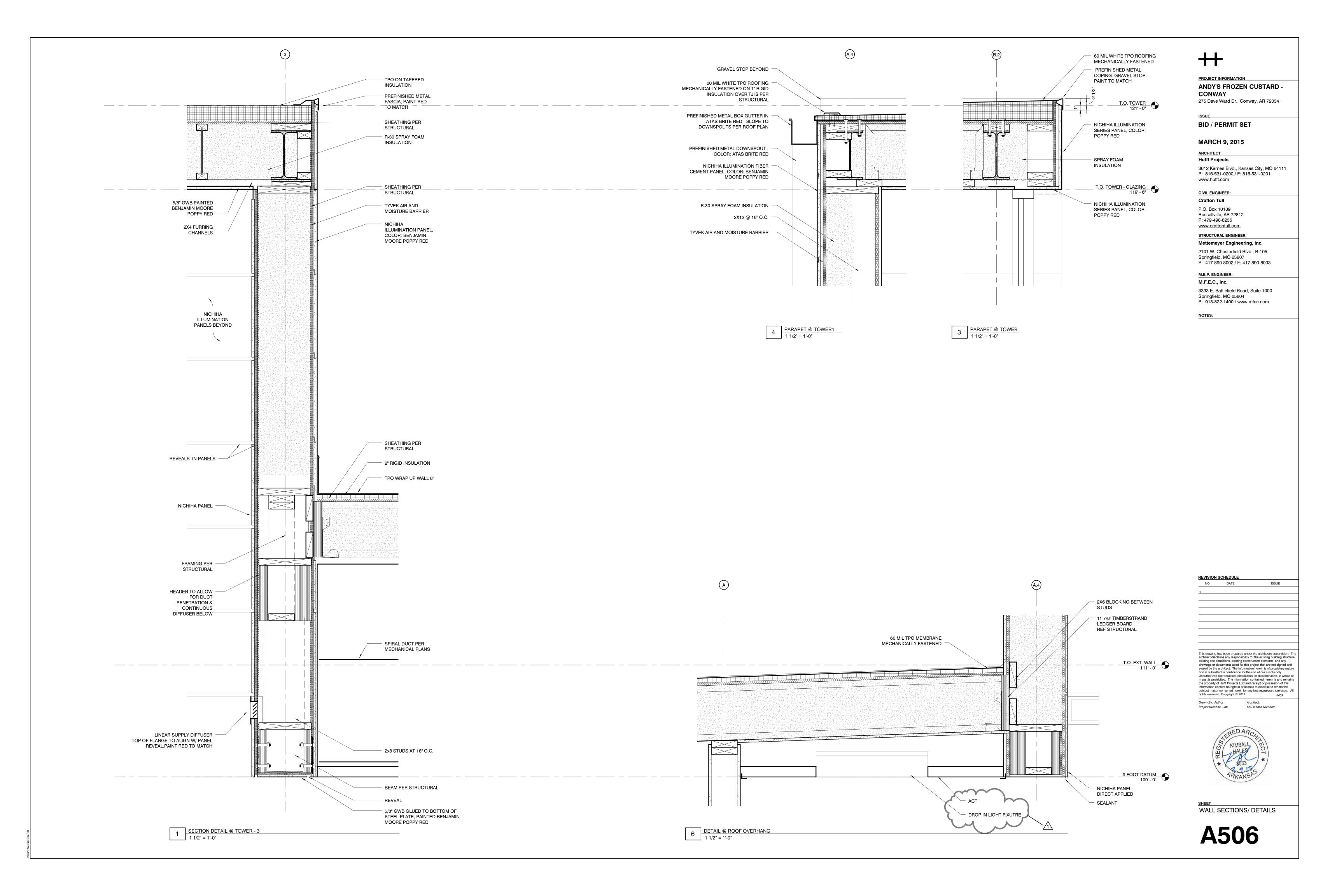
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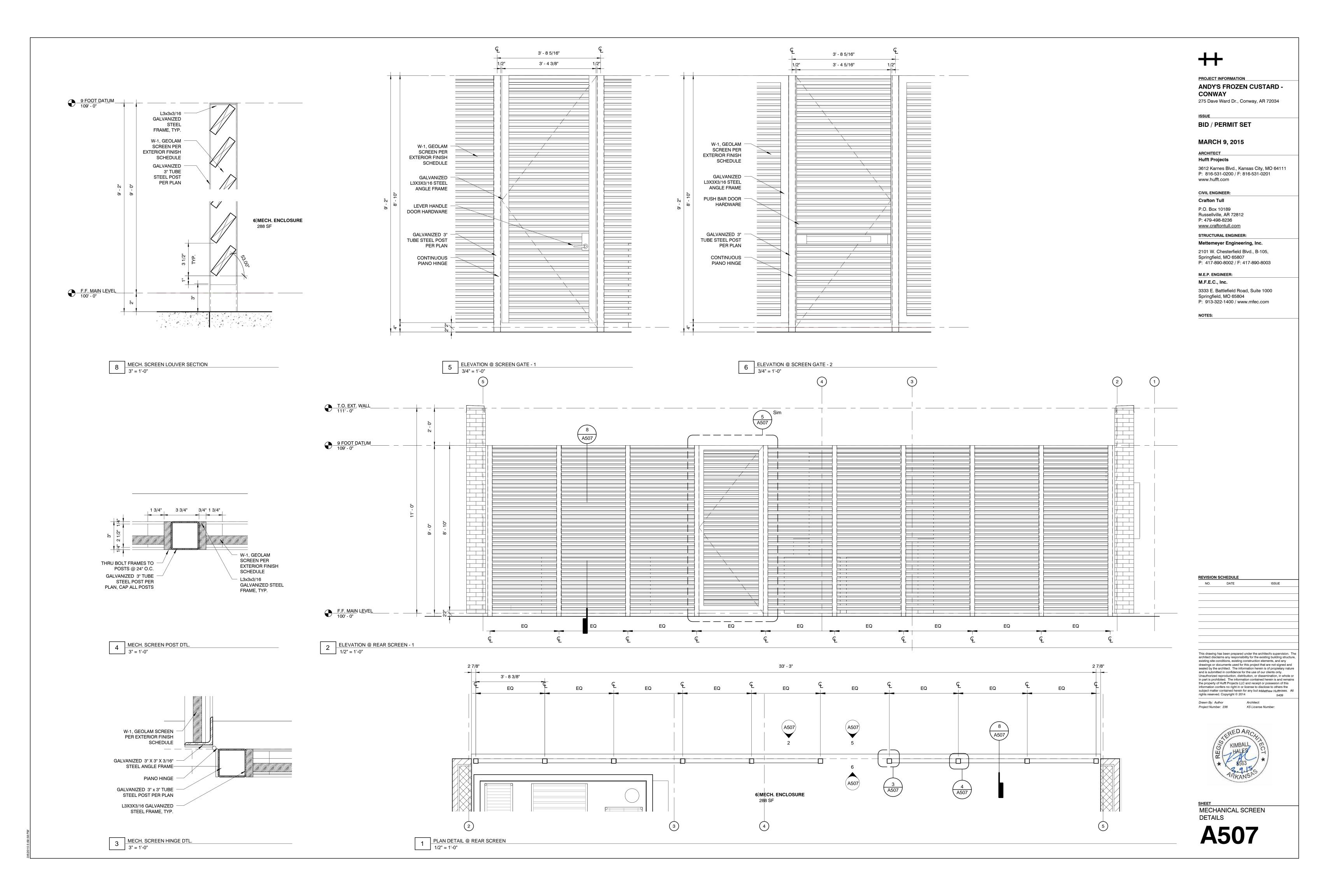
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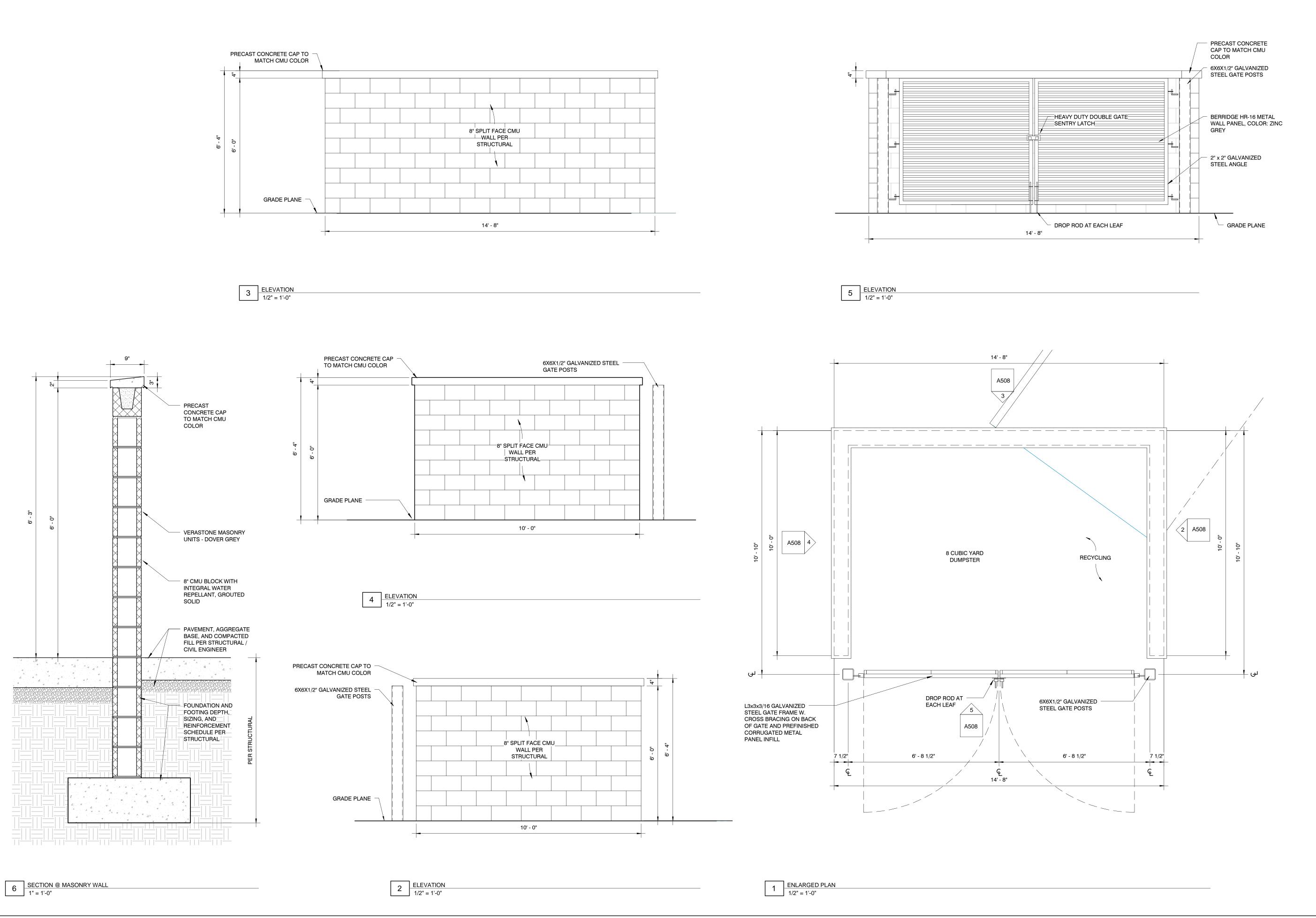
Drawn By: Author Architect:
Project Number: 236 KS License Number:



SHEET
WALL SECTIONS/ DETAILS







++

PROJECT INFORMATION

ANDY'S FROZEN CUSTARD CONWAY

275 Dave Ward Dr., Conway, AR 72034

SSUE

BID / PERMIT SET

MARCH 9, 2015

ARCHITECT

Hufft Projects

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M.E.P. ENGINEER:

M.F.E.C., Inc.

3333 E. Battlefield Road, Suite 1000
Springfield, MO 65804

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NOTES:

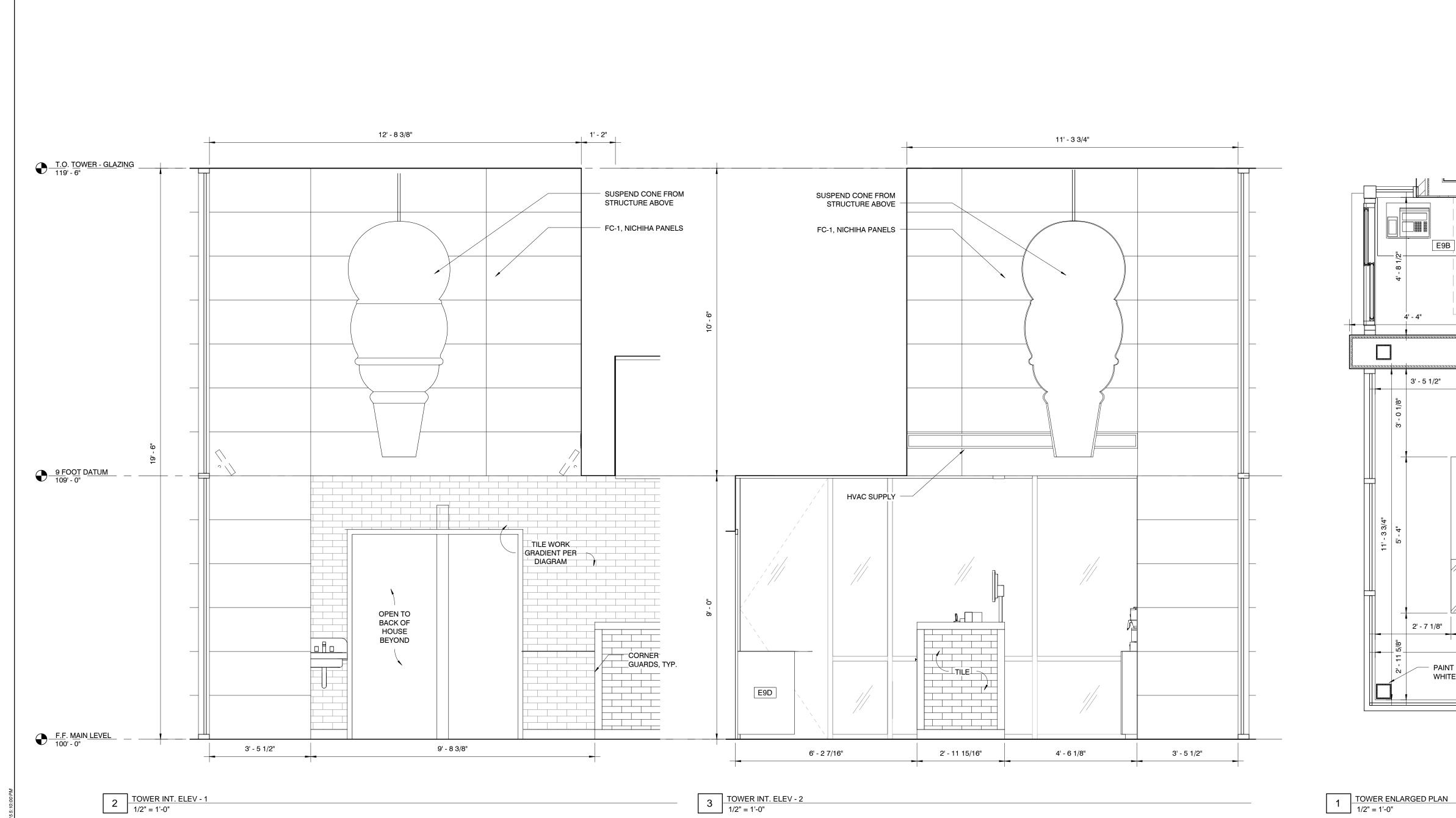
NO. DATE

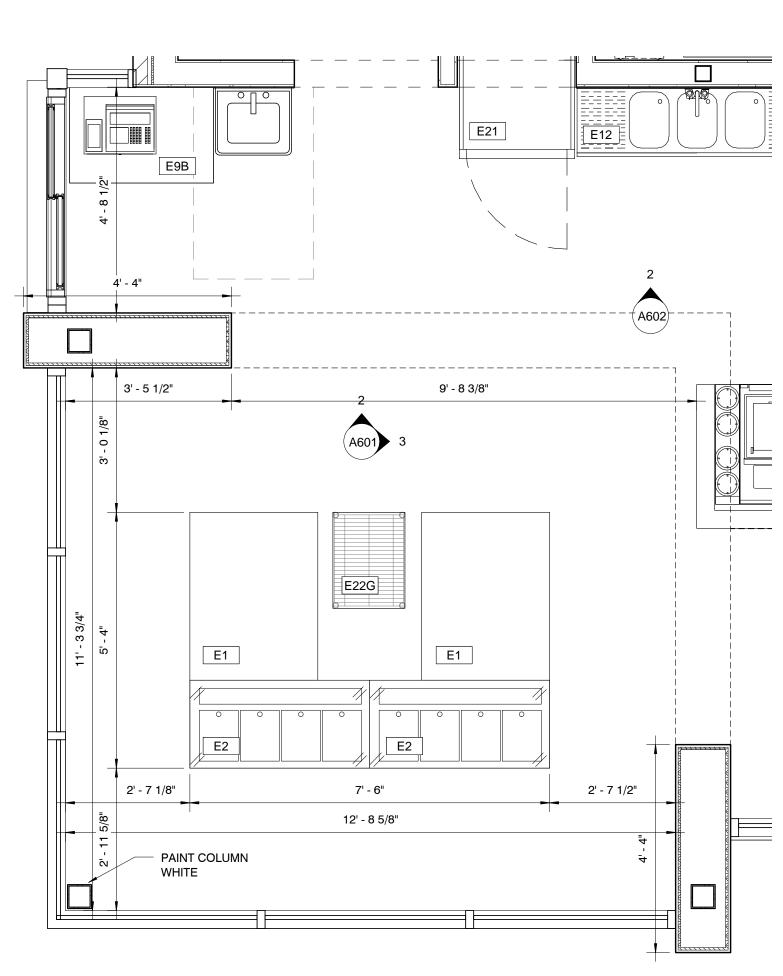
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SHEET
DUMPSTER ENCLOSURE
DETAILS





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Drawn By: Author

Project Number: 236

Architect:

Project Number: 236

KS License Number:

PROJECT INFORMATION

**BID / PERMIT SET** 

**MARCH 9, 2015** 

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M.E.P. ENGINEER: M.F.E.C., Inc.

NOTES:

CONWAY

ANDY'S FROZEN CUSTARD -

275 Dave Ward Dr., Conway, AR 72034

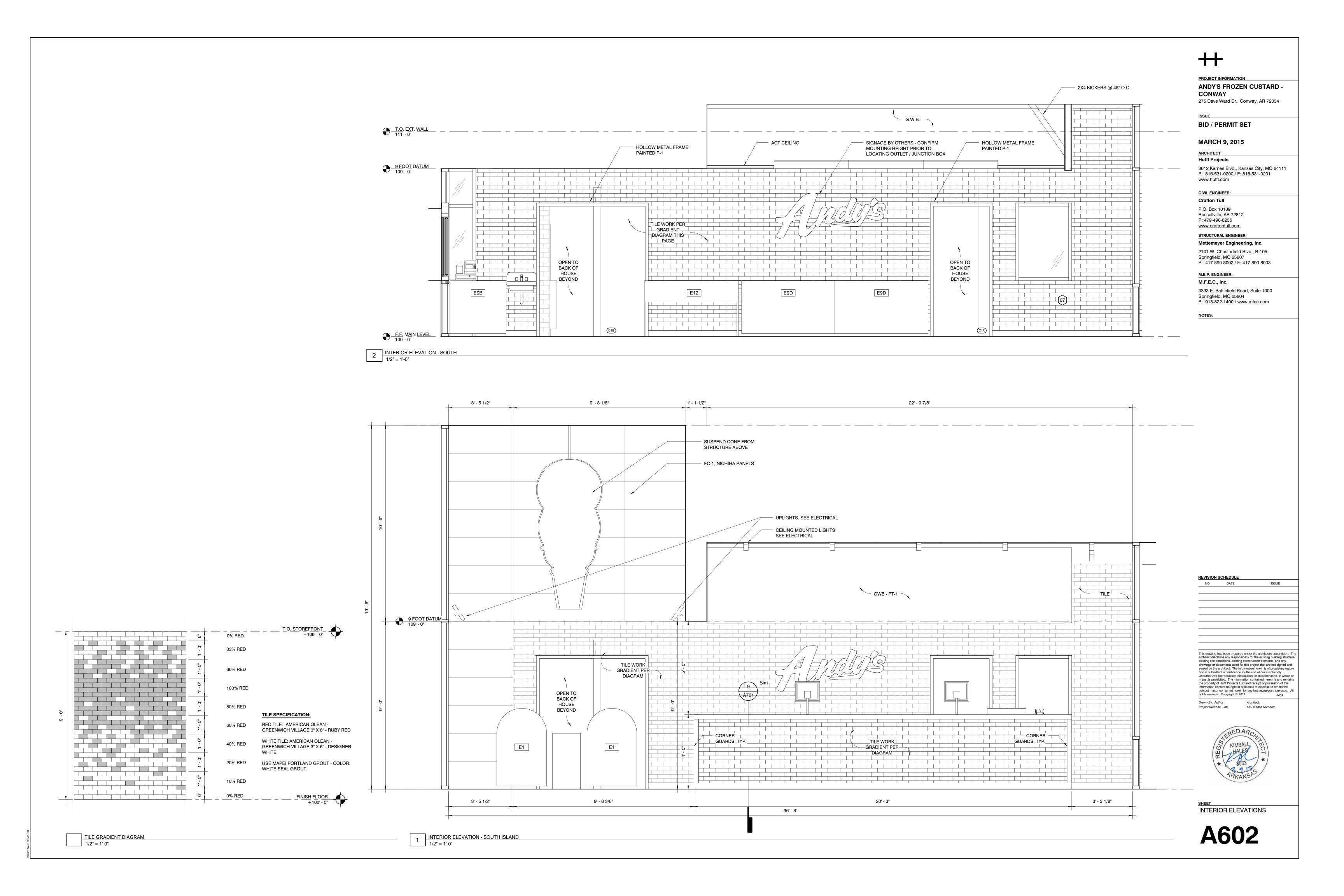
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3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

SHEET
INTERIOR ELEVATIONS



# **PLUMBING FIXTURE SCHEDULE:**

TAG	QTY	TYPE	MFR	MODEL	COMMENTS
P1	1	TOILET	ZURN	Z5551	SPECIFY LEVER LOCATION ON SIDE OF TOILET
					CLOSEST TO ADJACENT SINK
P2	3	HAND SINK	EAGLE	HSA-10-FA	
P3	2	HOT AND COLD HOSE BIB			
P4	1	ELECTRIC HOT WATER HEATER	RHEEM	120 GA.	CONFIRM CLEARENCE REQUIREMENTS WITH MFG.
P6	1	MOP SINK			

# **RESTROOM ACCESSORY SCHEDULE:**

NO.	QTY.	MFG.	MODEL	DESCRIPTION	COMMENTS
RA-1	1	BOBRICK	(3): B-5806.99x18, B-5806.99x36, B-5806.99x42	ADA GRAB BARS - STRAIGHT - PEENED	REFER TO ACCESSIBILITY DIAGRAMS, A001, FOR MOUNTING LOCATIONS
RA-2	1	BOBRICK	B-3942	PAPER TOWEL DISPENSER	MOUNT 60" TO TOP OF DISPENSER
RA-3	1	BOBRICK	B-293 2436	ANGLED MIRROR	BOTTOM OF MIRROR @ 40" MAX. A.F.F.
RA-4	1	BOBRICK	B-270	SURFACE MOUNTED SANITARY NAPKIN DISPENSER	TOP OF DISPENSER @ 30" A.F.F.
RA-5	1	BOBRICK	B-2888	SURFACE MOUNTED TOILET TISSUE DISPENSER	TOP OF DISPENSER @ 28" A.F.F.
RA-7	1	BOBRICK	B-2111	SURFACE MOUNTED SOAP DISPENSER	TOP OF DISPENSER @ 51" A.F.F.

7 INT. ELEV. 4 - OFFICE
1/2" = 1'-0"

- NOTE:
  1. REFER TO ACCESSIBLITY DIAGRAMS ON A001 FOR ALL STANDARD MOUNTING HEIGHTS AND LOCATIONS OF GRAB
- BARS, TISSUE DISPENSER, ETC. 2. LOCATE ACCESSIBLE UNISEX RESTROOM SIGN - AMERAPRODUCTS [EP-4405], 60" AFF TO CENTER - LOCATE WITHIN
- 18" OF DOOR @ EXTERIOR. 3. LOCATE EMPLOYEE HANDWASHING SIGNAGE - SMART SIGNS - JUST BATHROOM SIGNS [S-4492] BOTTOM RIGHT OF
- 4. TOILET TISSUE, NAPKIN, AND SOAP DISPENSERS ARE OWNDER PROVIDED, CONTRACTOR INSTALLED.

# **KEYNOTES:**

- 1. IG RECEPTACLE FOR COMPUTER SYSTEM
- 2. IG RECEPTACLE FOR FAX AND DATA 3. IG RECEPTACLE FOR PRINTER
- RECEPTACLE FOR SAFE
- 6. RECEPTACLE FOR GENERAL POWER 7. IG RECEPTACLE @ 42" AFF
- 8. PHONE JACK @ 54" AFF 9. BUMP BAR EQUIPMENT
- 11. PHONE SYSTEM 12. DATA
- 13. DEMARCATION BLOCK
- 18. MONITOR
- 20. DUPLEX OUTLET AND DATA
- 22. MODEM AND ROUTER
- 23. 14" MELAMINE SHELF ON BRACKETS @ 16" O.C.
- 28. MONITOR CONTROL BOX MOUNTED TO INSIDE
- FACE OF WALL
- 29. QUAD OUTLETS AND DATA
- 31. DUPLEX OUTLET 2 CIRCUITS
- 33. TRANSITION FLOOR FINISHES @ C.J. TYP.

### NOTES:

- COORDINATE SHELVING HEIGHTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL EQUIPMENT.
- 2. PROVIDE SOLID BLOCKING AT ALL SHELVES.

- 4. IG RECEPTACLE FOR SOUND SYSTEM
  - **BID / PERMIT SET**

  - MARCH 9, 2015
- 10. IG RECEPTACLE @ 84" AFF
- 14. DRIVE-THRU MONITOR 15. 24" P-LAM COUNTER
- 16. MELAMINE SHELVES ON BRACKETS @ 16" O.C.
- 17. COUNTER SUPPORT BRACKETS @ 48" O.C.
- 19. COUNTER GROMMET
- 21. CPU
- 24. DUPLEX OUTLET
- 25. 6" CUP WELL INTEGRATED INTO CASE 26. 5" BACKSPLASH
- 27. STAINLESS STEEL WALL CAP
- 30. DISPLAY MONITOR
- 32. GREASE INTERCEPTOR SEE PLUMBING PLANS

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M.E.P. ENGINEER:

M.F.E.C., Inc.

PROJECT INFORMATION

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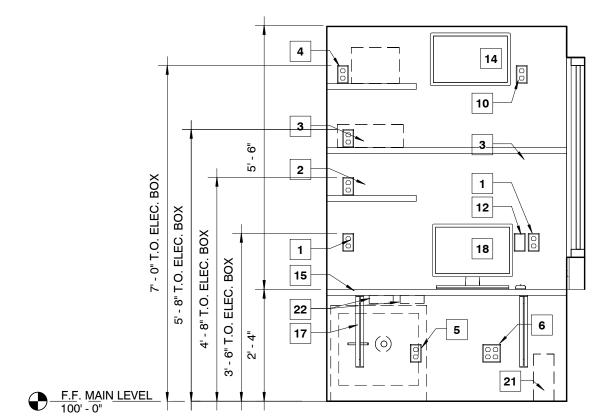
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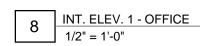
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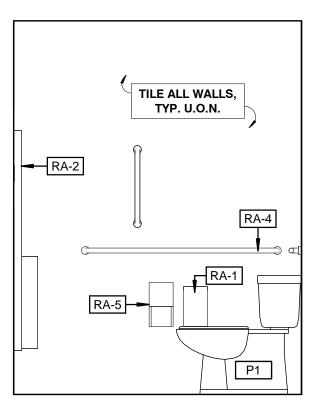
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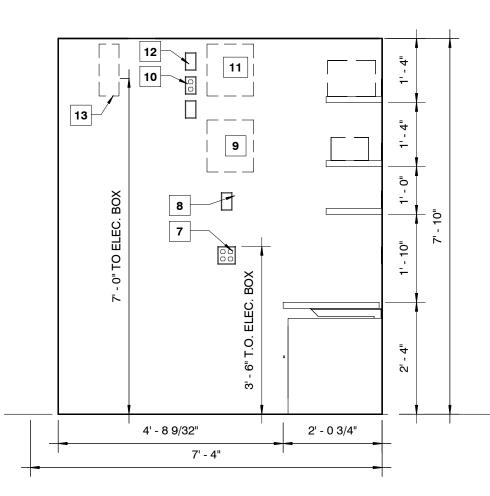
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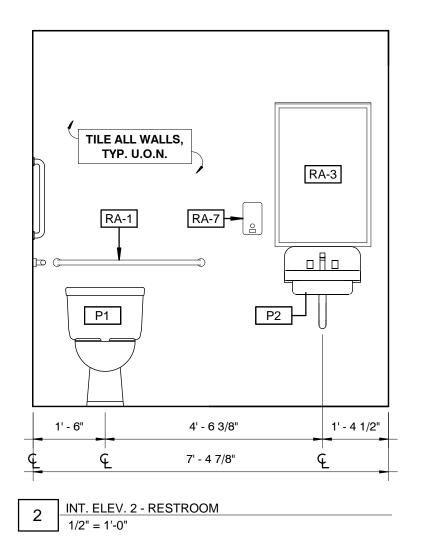


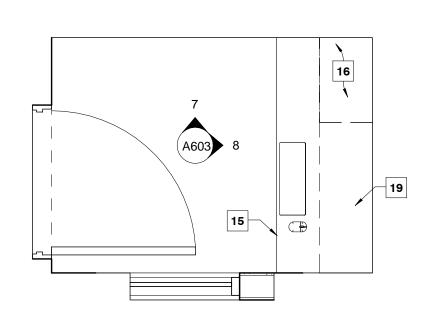




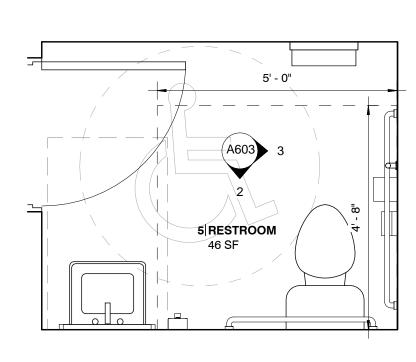
3 INT. ELEVATION - RESTROOM 2
1/2" = 1'-0"



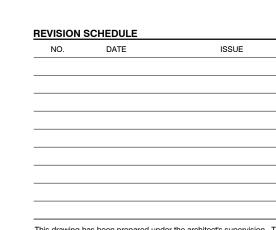




6 OFFICE - ENLARGED PLAN
1/2" = 1'-0"



1 RESTROOM - ENLARGED PLAN
1/2" = 1'-0"

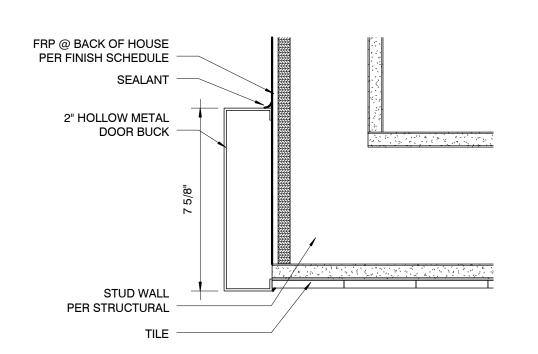


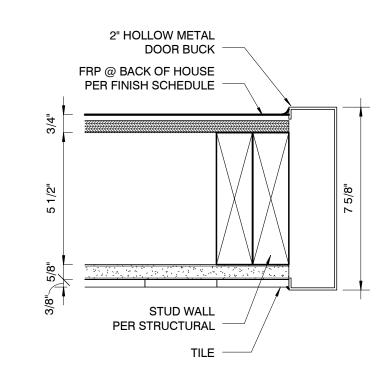
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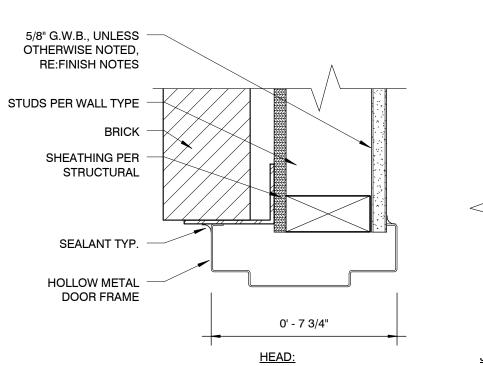
SHEET
INTERIOR ELEVATIONS

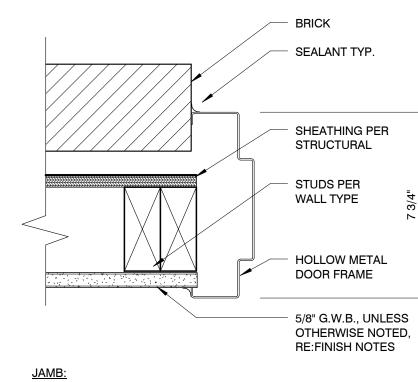




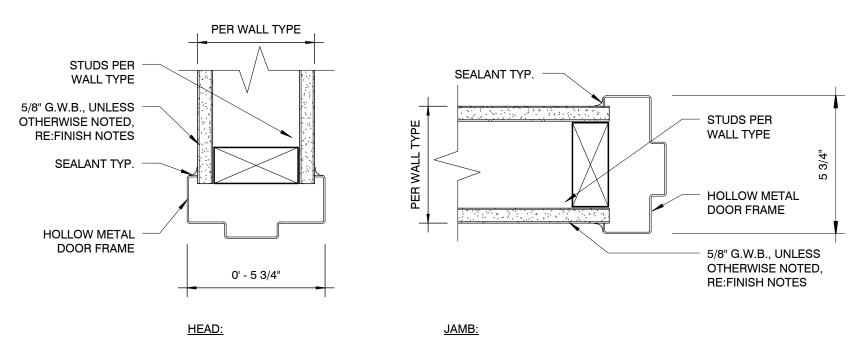
# 11 DETAIL @ THRESHOLD CORNER 3" = 1'-0"



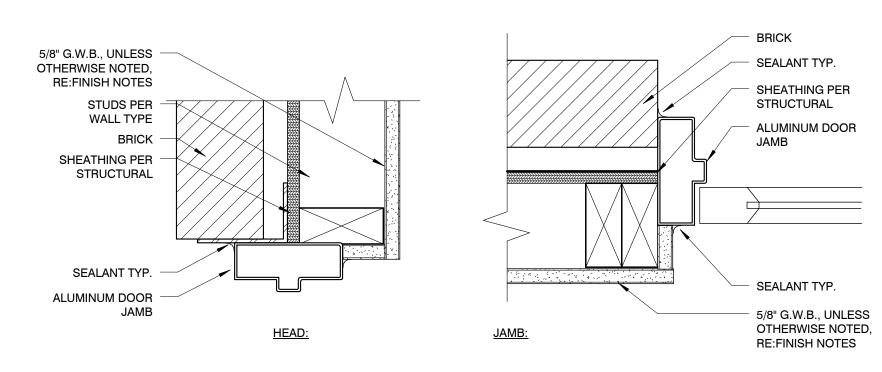




13 HEAD / JAMB / SILL @ EXT. H.M. DOOR 3" = 1'-0"



8 HEAD / JAMB / SILL @ H.M. DOOR
3" = 1'-0"

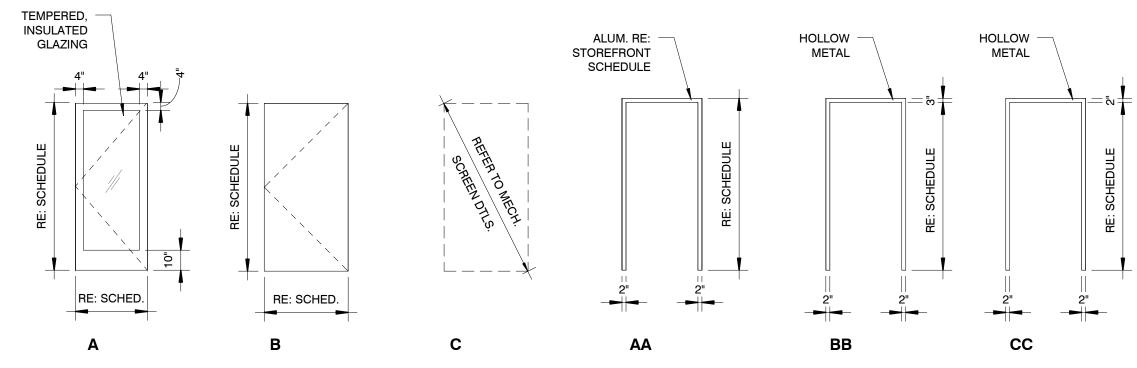


12 HEAD / JAMB / SILL @ ALUMINUM DOOR

3" = 1'-0"

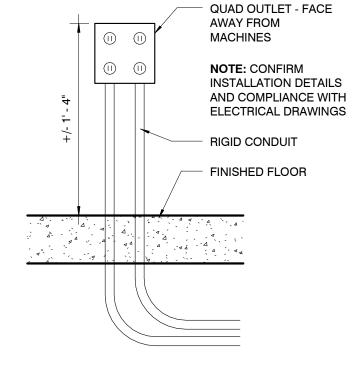
# **DOOR TYPE LEGEND:**

# **FRAME TYPE LEGEND:**

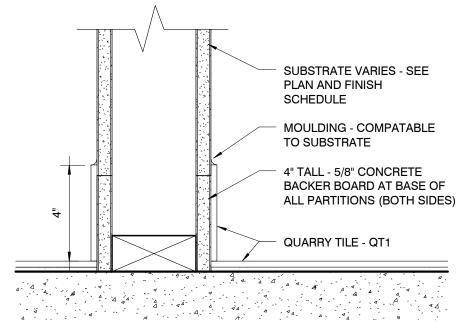


# **DOOR SCHEDULE:**

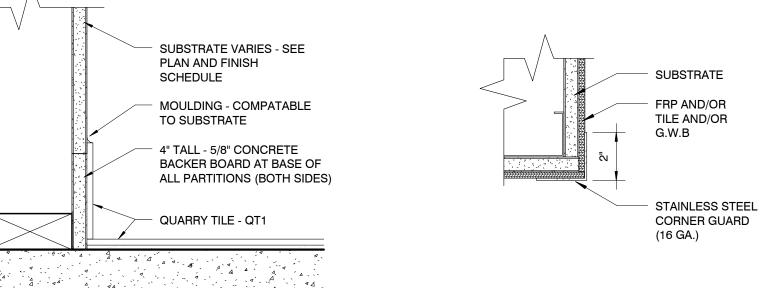
	DOOR	DOOF	R SIZE	D	ETAILS	;			NOTES		HDWF
NO.	TYPE	WIDTH	HEIGHT	HEAD	JAMB	SILL	DESCRIPTION	DOOR	FRAME	REMARKS	SET
02	Α	36"	84"				ALUMINUM STOREFRONT DOOR	-	-	FRAME TYPE: AA	1
03	В	36"	84"				HOLLOW METAL DOOR	PT. WHITE	PT. WHITE	FRAME TYPE: CC	3
04	В	36"	84"				HOLLOW METAL DOOR	PT. WHITE	PT. WHITE	FRAME TYPE: AA	4
05A	-	36"	80"	-	-	-	WALK IN COOLER DOOR BY OTHERS	-	-	-	-
05B	-	36"	80"	-	-	-	WALK IN COOLER DOOR BY OTHERS	-	-	-	-
06A	В	36"	84"				EXTERIOR HOLLOW METAL DOOR	PT. TO MATCH NICHIA	PT. TO MATCH NICHIHA	FRAME TYPE: BB	2
07	Α	36"	107"				ALUMINUM STOREFRONT DOOR	-	-	FRAME TYPE: AA	1
C1A	CC	36"	84"				CASED OPENING - NO DOOR	-	PT. RED	FRAME TYPE: BB, NO DOOR	-
C1B	Е	68"	84"					-	PT. RED	FRAME TYPE: BB, NO DOOR	-











6 DETAIL @ STAINLESS STEEL CNR. GD.

3" = 1'-0"

BRACE TO

STRUCTURE

5/8" G.W.B. **OR** 

CONCRETE

**BOARD WITH** 

TILE **OR** 1/2"

SCHEDULE

CONCRETE

BOARD @ ALL

LOCATIONS

BACKER

FRP - PER

FINISH

5/8"

A-1 USES 2x6 STUDS

**B-1** USES 2x4 STUDS

1 PARTITION TYPES
1 1/2" = 1'-0"

BACKER

**DOOR HARDWARE SETS:** 

1. DOOR HARDWARE PROVIDED BY STOREFRONT / CURTAIN WALL VENDOR - PROVIDE PANIC

HARDWARE AT ALL EXIT DOORS, TYP 2. (3) HINGES, ENTRY LOCKSET [FUNCITON NO:

53, ANSI NO: F109] - LEVER HANDLE -

CYLINDER LOCK

HANDLE - PANIC BAR

CYLINDER LOCK, DOOR STOP, DRIP CAP

NO: 70, ANSI NO: F84], LEVER HANDLE -

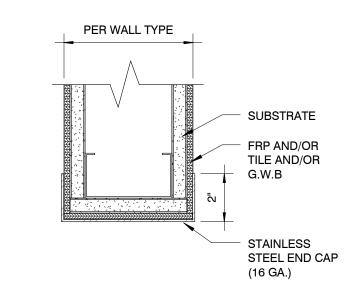
40, ANSI NO: F76B] - LEVER HANDLE -

CYLINDER LOCK, LCN 4041 CLOSER

5. (4) GALVANIZED GATE HINGES - LEVER

3. (3) HINGES, CLASSROOM LOCKSET [FUNCITON

4. (3) HINGES, PRIVACY LOCKSET [FUNCITON NO:



5 DETAIL @ STAINLESS STEEL END CAP

BRACE TO

STRUCTURE

SUBSTRATE

- OPPOSING

5/8" G.W.B. **OR** 

5/8" CONCRETE

WITH TILE OR

1/2" FRP - PER

FINISH

SCHEDULE

CONCRETE

BOARD @ ALL

LOCATIONS

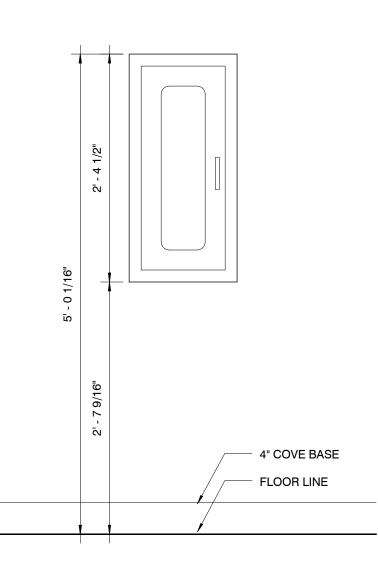
BACKER

A-2 USES 2x6 STUDS

**B-2** USES 2x4 STUDS

BACKER BOARD

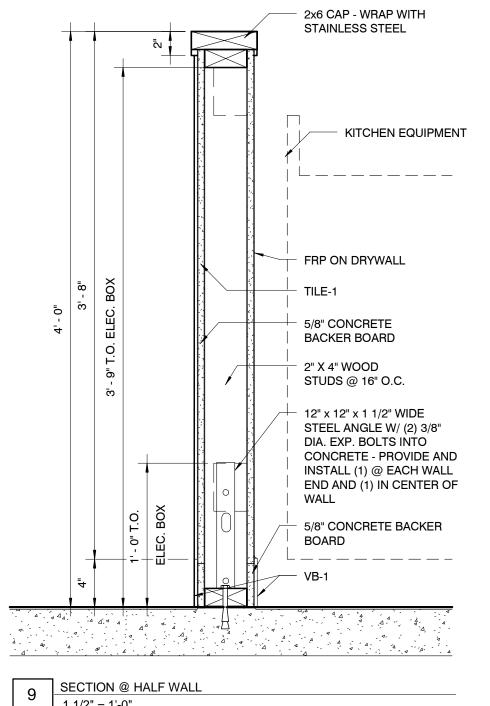
FACE



FIRE CABINET: A-126-SQ - APEX FULLY RECESSED CABINET CABINET TYPE IS NON-RATED

4 FIRE EXTINGUISHER CABINET DETAIL

1" = 1'-0"





PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

# **MARCH 9, 2015**

ARCHITECT

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NOTES:

# **PARTITION LEGEND:**

**NEW INTERIOR PARTITION** 

2 x 6 WOOD STUDS A-1: 5/8" GWB BOTH SIDES A-2: 5/8" GWB ONE SIDE

# **NEW INTERIOR PARTITION** 2 x 4 WOOD STUDS, 5/8" GWB

B-1: 5/8" GWB BOTH SIDES **B-2**: 5/8" GWB ONE SIDE

1. DIMS. ARE FROM OUTSIDE FACE OF EXT. WALLS TO FIN. FACE OF

NEW PARTITIONS, U.O.N. 2. REFER TO A701 FOR NOTES ON

WALL TYPE / DETAILING. 3. ALL FOOD AND NON-FOOD SURFACES ARE TO BE SMOOTH,

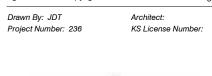
DURABLE, NON-ABSORBENT, LIGHT IN COLOR AND EASILY CLEANABLE PER LOCAL CITY HEALTH DEPARTMENT REGULATIONS. 4. REFER TO INT. ELEV. FOR

CONDITIONS WITH TILE AS FIN. WALL SURFACE - PROVIDE 5/8" CONCRETE BACKER BOARD IN LIEU OF G.W.B.

5. BATHROOM WALLS SHOULD BE INSUL. WITH SOUND BATT INSUL.

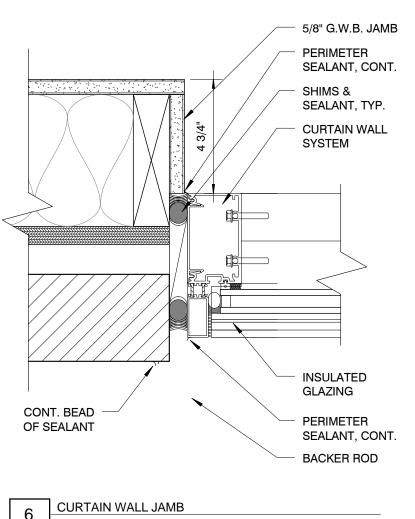
TO ACHIEVE AN STC RATING OF 50 6. ALL WALLS CONTAINED WITHIN OR DIRECTLY FACING ROOM 2 - BACK OF HOUSE TO UTILIZE FRP 1 IN

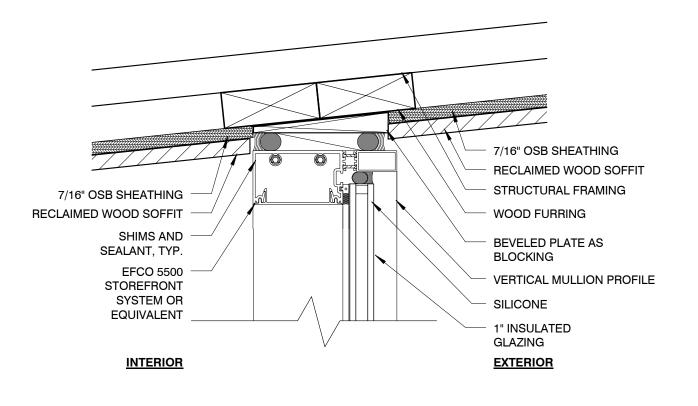
LIEU OF 5/8" G.W.B. REVISION SCHEDULE This drawing has been prepared under the architect's supervision. The architect disclaims any responsibility for the existing building structure, existing site conditions, existing construction elements, and any drawings or documents used for this project that are not signed and sealed by the architect. The information herein is of propietary nature and is submitted in confidence for the use of our clients only. Unauthorized reproduction, distribution, or dissemination, in whole or in part is prohibited. The information contained herein is and remain the property of Hufft Projects LLC and receipt or possesion of this information confers no right in or license to disclose to others the subject matter contained herein for any but av Matthew Huffroses. All rights reserved. Copyright © 2014

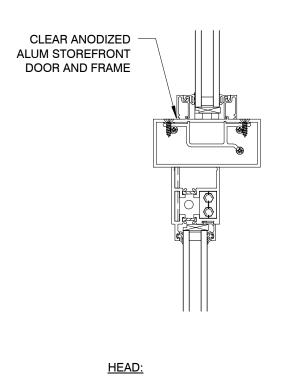


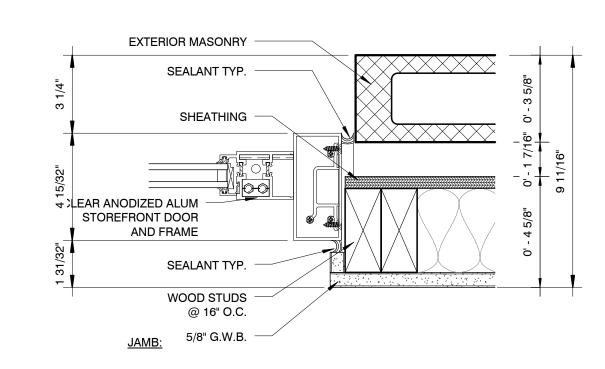


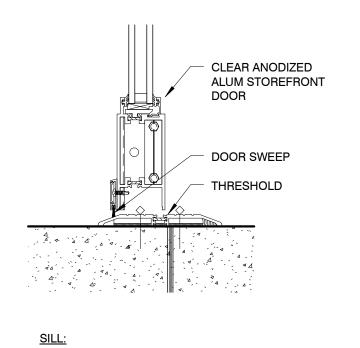
SCHEDULES AND DETALS









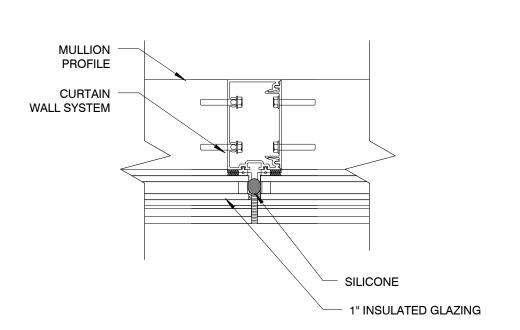


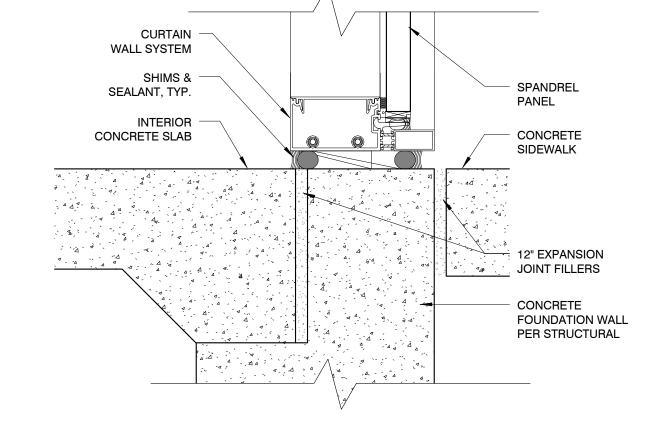
6 CURTAIN WALL JAMB 3" = 1'-0"

5 CURTAIN WALL HEAD

3" = 1'-0"







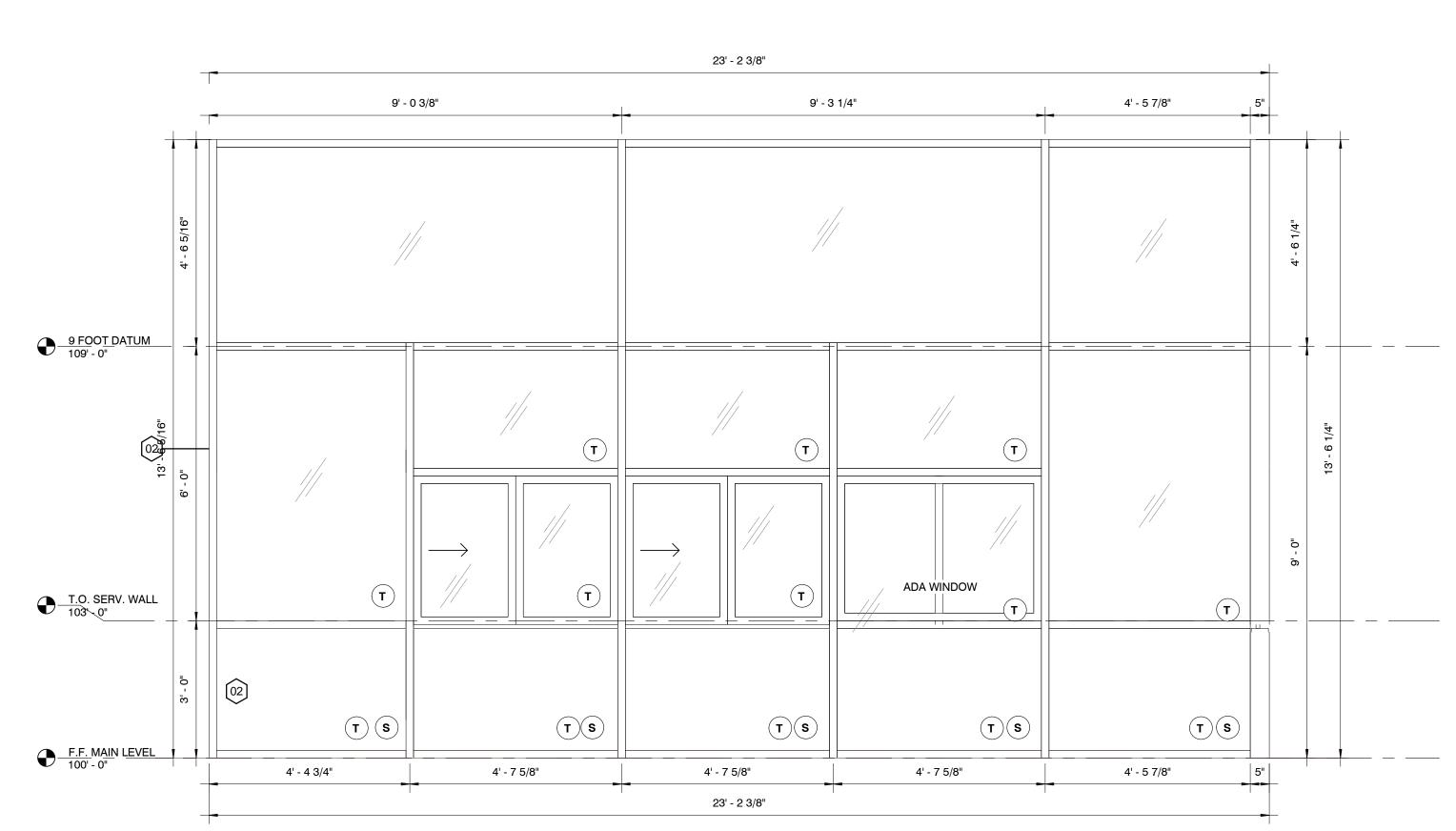


					FR	AME		DETAILS	3	
NO	QTY	TYPE	LENGTH	HEIGHT	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
01	1	EFCO 403 SERIES OR EQUAL STOREFRONT SYSTEM	15' - 8 5/8"	12' - 7 13/16"						
02	1	EFCO 403 SERIES OR EQUAL STOREFRONT SYSTEM	23' - 6 25/32"	13' - 2 11/32"						
03	1	EFCO SYSTEM 5500 – STRUCTURAL GLAZED CURTAIN WALL – 4-SIDED	13' - 5 3/4"	18' - 8 1/16"	AL					
)4	1	EFCO SYSTEM 5500 – STRUCTURAL GLAZED CURTAIN WALL – 4-SIDED	12' - 0 7/8"	18' - 6 29/32"	AL					
)5	1	EFCO 403 SERIES OR EQUAL STOREFRONT SYSTEM	4' - 10 5/8"	5' - 7 1/16"						
06	1	EFCO 403 SERIES OR EQUAL STOREFRONT SYSTEM	1' - 7 3/4"	9' - 0"						
)7	1	EFCO 403 SERIES OR EQUAL STOREFRONT SYSTEM	3' - 0"	4' - 2"						

7 CURTAIN WALL - VERT. INTERMEDIATE V1

3" = 1'-0"





	1							
	4' - 6 1/4"							3' - 1 7/8"
13' - 6 1/4"	.06							9' - 1"
			(O1) (S) (T)	<u>T</u>	<u></u>		7	
Ī		5	" 5' - 0"		4' - 11 3/8"	2' - 0 1/2"	3' - 2 7/8"	

1 STOREFRONT ELEVATION - 1 1/2" = 1'-0"



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

MARCH 9, 2015

ARCHITECT **Hufft Projects** 

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Mettemeyer Engineering, Inc. 2101 W. Chesterfield Blvd., B-105, Springfield, MO 65807 P: 417-890-8002 / F: 417-890-8003

M.E.P. ENGINEER: M.F.E.C., Inc.

3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

**GLAZING LEGEND AND** NOTES:

S = SPANDREL PANEL

(T) = TEMPERED SAFETY GLAZING

 PROVIDE TEMPERED SAFETY GLAZING IN ACCORDANCE WITH

2012 IBC 2406.3 2. ALL EXTERIOR GLAZING TO BE 1" INSULATED GLAZING (DOUBLE PANE,

SOLARBAN 70XL CLEAR OVER CLEAR), IN THERMALLY-IMPROVED ALUMINUM STOREFRONT FRAMING ALL INTERIOR GLAZING TO BE SINGLE PANE IN ALUMINUM

STOREFRONT FRAMING UNLESS NOTED OTHERWISE. 4. CONTRACTOR TO PROVIDE SHOP

DRAWINGS AND PRODUCT SAMPLES OF FINISHES FOR EACH PRODUCT TO BE INSTALLED FOR ARCHITECT TO REVIEW AND APPROVE.

CONTRACTOR TO VERIFY CONSTRUCTION CONDITIONS FOR ALL FRAMED OPENINGS AND DIMENSIONS PRIOR TO PURCHASING OR INSTALLING GLAZING OR

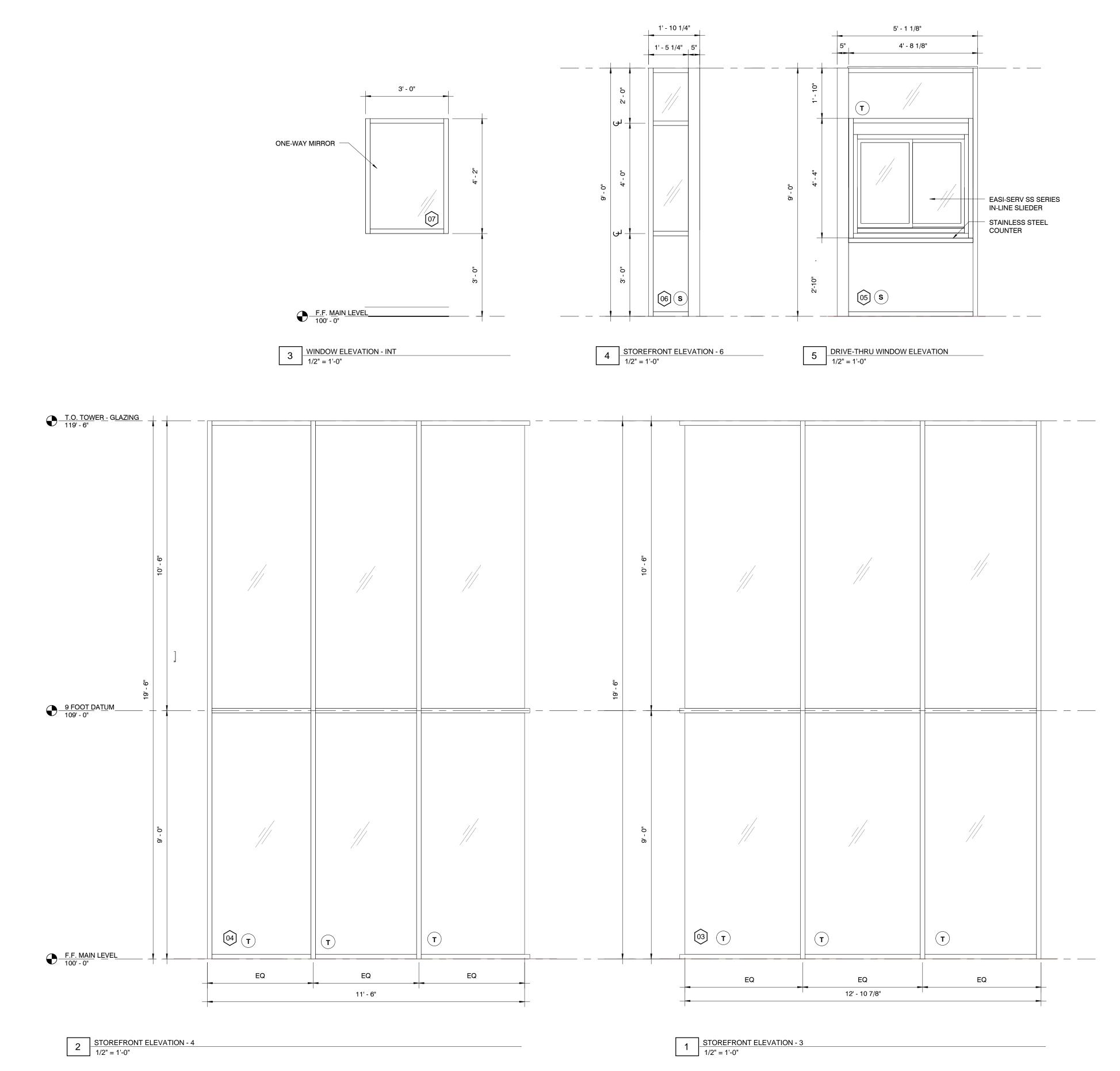
EVISION SCHEDULE						
NO.	DATE	ISSUE				

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Drawn By: Author Project Number: 236 Architect: KS License Number:



STOREFRONT DETAILS AND ELEVATIONS



PROJECT INFORMATION ANDY'S FROZEN CUSTARD -CONWAY 275 Dave Ward Dr., Conway, AR 72034

**BID / PERMIT SET** 

#### **MARCH 9, 2015**

ARCHITECT

**Hufft Projects** 3612 Karnes Blvd., Kansas City, MO 64111 P: 816-531-0200 / F: 816-531-0201 www.hufft.com

CIVIL ENGINEER: **Crafton Tull** 

P.O. Box 10189 Russellville, AR 72812 P: 479-498-8236 www.craftontull.com

STRUCTURAL ENGINEER:

Mettemeyer Engineering, Inc. 2101 W. Chesterfield Blvd., B-105, Springfield, MO 65807 P: 417-890-8002 / F: 417-890-8003

M.E.P. ENGINEER:

M.F.E.C., Inc. 3333 E. Battlefield Road, Suite 1000 Springfield, MO 65804 P: 913-322-1400 / www.mfec.com

# GLAZING LEGEND AND NOTES:

S = SPANDREL PANEL

T = TEMPERED SAFETY GLAZING

- PROVIDE TEMPERED SAFETY
   GLAZING IN ACCORDANCE WITH
- 2012 IBC 2406.3

  2. ALL EXTERIOR GLAZING TO BE 1"
  INSULATED GLAZING (DOUBLE PANE, SOLARBAN 70XL CLEAR OVER CLEAR), IN THERMALLY-IMPROVED
- ALUMINUM STOREFRONT FRAMING. 3. ALL INTERIOR GLAZING TO BE SINGLE PANE IN ALUMINUM STOREFRONT FRAMING UNLESS
- NOTED OTHERWISE.

  4. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND PRODUCT SAMPLES OF FINISHES FOR EACH PRODUCT TO BE INSTALLED FOR ARCHITECT
- TO REVIEW AND APPROVE.
  5. CONTRACTOR TO VERIFY CONSTRUCTION CONDITIONS FOR ALL FRAMED OPENINGS AND DIMENSIONS PRIOR TO PURCHASING OR INSTALLING GLAZING OR

FRAMES.

NO.	DATE	ISSUE

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Drawn By: Author Project Number: 236 Architect: KS License Number:



STOREFRONT DETAILS AND ELEVATIONS

**A703** 

MECHANICAL SYMBOLS:	MECHANICAL SYMBOLS:	MECHANICAL SYMBOLS:	ELECTRICAL SYMBOLS:	ELECTRICAL SYMBOLS:	ELECTRICAL NOTATIONS:	
DOMESTIC COLD WATER	DDESCUDE CALICE	OONEDOL DANDED	HOME RUN — DIAGONAL LINES INDICATE	DISCONNECT SWITCH	THESE LETTERS ADJACENT TO ANY SYMBOL	++
DOMESTIC HOT WATER	PRESSURE GAUGE	© CONTROL DAMPER	NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS	<ul> <li>MANUAL MOTOR CONTROLLER</li> <li>TIME SWITCH</li> </ul>	"AC" or "*" INDICATES DEVICE BOTTOM TO BE MOUNTED 4" ABOVE COUNTERTOP BACKSPLASH	1 1
DOMESTIC HOT WATER RETURN	——— <del>¸¥</del> ——— THERMOMETER	RELIEF DAMPER	#18 WIRE	LIGHTING CONTACTOR	THESE LETTEDS ADJACENT TO ANY SYMBOL	PROJECT INFORMATION
T TEMPERED WATER	———— UNION	BACKDRAFT DAMPER	#16 WIRE	PE PHOTOCELL	"GF" INDICATES GROUND FAULT INTERRUPTER	Andy's Custard - Conway
DW — CHILLED DRINKING WATER	BACKFLOW PREVENTER	TEMPERATURE SENSOR-MOUNT AT 4'-0" A.F.F.	#14 WIRE	□™ TELE – POWER POLE	"IG" THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES ISOLATED GROUND DEVICE	<b>Arkansas</b> 2375 Dave Ward Drive, AR 72034
WASTE PIPING — ABOVE FLOOR	—————— DOMESTIC WATER MIXING VALVE ——————— METER	TEMPERATURE SENSOR WITH ADJUSTABLE SETPOINT	#12 WIRE	□PP POWER POLE	THESE LETTEDS ADJACENT TO ANY SYMBOL	
─────────────────────────────────────	HB HOSE BIBB	AND OVER RIDE BUTTON — MOUNT AT 4'-0" A.F.F.	SHEATHED CABLE	UGE UNDERGROUND ELECTRIC	"SS" INDICATES SURGE SUPPRESSION DEVICE	ISSUE
		HUMIDITY SENSOR-MOUNT AT 4'-0" A.F.F.	BRANCH CIRCUIT OR FEEDER – SEE	OHE OVERHEAD ELECTRIC	THESE LETTERS ADJACENT TO ANY SYMBOL	Bid Set
ACID WASTE — ABOVE FLOOR	o FFCO FLUSH FLOOR CLEANOUT	PNEUMATIC THERMOSTAT — MOUNT AT 4'-0" A.F.F.	SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE	UGT UNDERGROUND TELEPHONE	"TL" INDICATES LOCKING OR TWIST-LOCK TYPE DEVICE	March 09, 2015
→ AW → ACID WASTE — BELOW FLOOR	FGCO FLUSH GRADE CLEANOUT	UNLESS NOTED OTHERWISE	FLEXIBLE CONDUIT	OHT OVERHEAD TELEPHONE	"MP" THESE LETTERS ADJACENT TO ANY SYMBOL	ARCHITECT
→ GW → GREASE WASTE — ABOVE FLOOR		PNEUMATIC NIGHT THERMOSTAT-MOUNT AT 4'-0" A.F.F.	GROUND WIRE	ER END OF LINE RELAY	INDICATES WEATHER-PROOF ENCLOSURE	Hufft Projects
<b>⊢</b> -GW <b>⊢</b> GREASE WASTE − BELOW FLOOR		CARBON DIOXIDE SENSOR-MOUNT AT 4'-0" A.F.F.	SWITCHED RECEPTACLE WITH APPROPRIATE RECEPTACLE(S)	WS WATER FLOW SWITCH	"WPI"  THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES WEATHER—PROOF IN—USE ENCLOSURE	3612 Karnes Blvd., Kansas City, MO 64111 P: 816-531-0200 / F: 816-531-0201
— AV — ACID VENT	─────────────────────────────────────	AVERAGING TEMPERATURE SENSOR—MOUNT AT 4'-0" A.F.F.	• • • • • • • • • • • • • • • • • • • •	TS VALVE TAMPER SWITCH	THESE LETTEDS ADJACENT TO ANY SYMBOL	www.hufft.com
VENT PIPING	——→ō÷——— TEE UP WITH SHUT-OFF VALVE	AV	TYPE RECEPTACLE	FR FAN SHUTDOWN RELAY  FI MANUAL FIRE ALARM STATION — MOUNT AT 4'-0' AFF	"XP" INDICATES EXPLOSION—PROOF ENCLOSURE	CIVIL ENGINEER:
—— D ——— DRAIN	─────────────────────────────────────	© CARBON DIOXIDE SENSOR-PLENUM MOUNTED	DUPLEX 20AMP, 125V, 2P, 3W GROUNDING	FIRE ALARM RELAY	"TR" THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES TAMPER RESISTANT DEVICE	Crafton Tull
— A — COMPRESSED AIR	——————————————————————————————————————	ELECTRICAL SYMBOLS	TYPE RECEPTACLE	ER END OF LINE RESISTOR	60" DIMENSIONS ADJACENT TO ANY SYMBOL	P.O. Box 10189 Russellville, AR 72812
G—— NATURAL GAS	SHOCK ABSORBER	"A" FLUORESCENT LIGHT FIXTURE & TYPE	4-PLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	FIRE ALARM STROBE — MOUNT AT 6'-8" AFF	INDICATES MOUNTING HEIGHT TO	P: 479-498-8236
──V ─── VACUUM ──O ─── OXYGEN	TEMPERATURE SENSOR		DUPLEX 15AMP, 250V, 2P, 3W GROUNDING	FIC FIRE ALARM BELL	CENTERLINE OF DEVICE	www.craftontull.com STRUCTURAL ENGINEER:
— 0 — OXYGEN — LPG — LIQUEFIED PETROLEUM GAS	——————————————————————————————————————	"A" FLUORESCENT LIGHT FIXTURE WITH INNER & OUTER BALLASTS SWITCHED SEPARATELY	TYPE RECEPTACLE	<b>□</b> O BELL		Mettemeyer Engineering, Inc.
— N — NITROUS OXIDE	□ 2" 1 FS FLOOR SINK, TYPE & SIZE	<b></b>	DUPLEX 20AMP, 250V, 2P, 3W GROUNDING TYPE RECEPTACLE	FIRE AUDIBLE AND VISUAL ALARM — MOUNT AT 6'-8" AF	F ABBREVIATIONS:	2101 W. Chesterfield Blvd., B-105,
	<del>_</del> _	EMERGENCY FLUORESCENT LIGHT FIXTURE	DUDLEY SOAMD 135V 3D 3W CDOUNDING	□ <b>⊲</b> HORN	AD ACCESS DOOR	Springfield, MO 65807 P: 417-890-8002 / F: 417-890-8003
— F — FIRE SERVICE		FLUORESCENT NIGHT LIGHT — UNSWITCHED	TYPE RECEPTACLE MOUNTED ABOVE CEILING	FA FIRE ALARM CONTROL CABINET	AFF ABOVE FINISHED FLOOR	M.E.P. ENGINEER:
— SP —— STANDPIPE	- 24"×16" 3 FT FLOOR TROUGH, TYPE & SIZE	INCANDESCENT OF LIFE EIVILIDE 0.	RECESS MOUNTED FLOOR BOX WITH  APPROPRIATE RECEPTACLE(S)	FIRE ALARM ANNUNCIATOR PANEL	AFG ABOVE FINISHED GRADE	Malone, Finkle, Eckhardt & Collins, Inc.
FIRE SPRINKLER		O"B" HO"C" INCANDESCENT OR H.I.D. LIGHT FIXTURE &  TYPE (CEILING OR WALL MOUNTED)	TWO RECESS MOUNTED FLOOR BOXES WITH	CARBON MONOXIDE SENSOR	AHU AIR HANDLING UNIT	3333 E. Battlefield Road, Suite 1000
HIGH PRESSURE STEAM SUPPLY	Q—4"4 ROOF DRAIN, TYPE & SIZE	⊗"X" +⊗"X1" EXIT LIGHT & TYPE (CEILING OR WALL	APPROPRIATE RECEPTACLE(S) INSTALLED	DUCT THERMOSTAT  DUCT SMOKE DETECTOR	CU CONDENSING UNIT	Springfield, MO 65804 Attn: Trevor Karstens
HIGH PRESSURE STEAM RETURN		MOUNTED)	TOGETHER  STUDDED UP CONDUIT WITH ADDRODDIATE	© CEILING SMOKE DETECTOR CENTRAL SYSTEM	CUH CABINET UNIT HEATER	P: 913-322-1400 / www.mfec.com NOTES:
MEDIUM PRESSURE STEAM SUPPLY	1 WATER CLOSET & TYPE		STUBBED UP CONDUIT WITH APPROPRIATE RECEPTACLES(S) OUTLET BOX TO BE FS BOX	THERMAL DETECTOR (HEAT)	CW DOMESTIC COLD WATER	
MEDIUM PRESSURE STEAM RETURN	■ WATER CLOSET & TYPE	TYPE (CEILING OR WALL MOUNTED)	SINGLE 15AMP, 125V, 2P, 3W GROUNDING	CEILING SMOKE DETECTOR INDEPENDENT	CWR CHILLED WATER RETURN	
— LP —— LOW PRESSURE STEAM SUPPLY	1 WATER CLOSET & TYPE		TYPE RECEPTACLE	OPERATION	CWS CHILLED WATER SUPPLY	
— LP — — LOW PRESSURE STEAM RETURN  CONDENSATE PUMP DISCHARGE		"L" "E" "E"	SINGLE 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	ELECTRIC DOOR HOLDER	DF DRINKING FOUNTAIN	
∞——∞— FEEDWATER PUMP DISCHARGE	1 P URINAL & TYPE	UGHT TRACK WITH LIGHT TYPES AS INDICATED	SINGLE 15AMP, 250V, 2P, 3W GROUNDING	▼F FIREMAN'S TELEPHONE OUTLET	DN DOWN EF EXHAUST FAN	
- HWS —— HOT WATER HEATING SUPPLY	1 WALL MOUNTED LAVATORY & TYPE	<b>♣</b> " EMERGENCY LIGHT & TYPE	TYPE RECEPTACLE	NURSE CALL MASTER STATION	EWC ELECTRIC WATER COOLER	
- HWR HOT WATER HEATING RETURN		HINOTION DOV 422 COLLADE LINESCO NOTED	SINGLE 20AMP, 250V, 2P, 3W GROUNDING	NCA NURSE CALL ANNUNCIATION PANEL NCPS NURSE CALL SYSTEM POWER SUPPLY	FCU FAN COIL UNIT	
FOR FUEL OIL RETURN	1 COUNTER TOP LAVATORY & TYPE	JUNCTION BOX 4" SQUARE UNLESS NOTED  OTHERWISE	ONOLE FOLKER OF THE OPOLINENS	NURSE CALL STATUS LIGHT ANNUNCIATION PANEL	FD FLOOR DRAIN	
- FOG FUEL OIL GAGE LINE	1 SINK & TYPE	ET HINOTION DOV. OF HINO MOUNTED	50 <sub>250</sub> SINGLE 50AMP, 250V, 2P, 3W GROUNDING TYPE RECEPTACLE	SL's NURSE CALL SWITCH PANEL	FFCO FINISHED FLOOR CLEANOUT	
FOS — FUEL OIL SUPPLY	1 BATHTUB & TYPE	JUNCTION BOX — CEILING MOUNTED	SINGLE 20AMP, 125/250V, 3P, 4W	NURSE CALL ROOM STATUS CORRIDOR LIGHT — WALL MO	UNT FGCO FINISHED GRADE CLEANOUT	
- FOV FUEL OIL VENT		JUNCTION BOX ON STUBBED UP CONDUIT	GROUNDING TYPE RÉCEPTACLE		MOUNT FTR FINNED TUBE RADIATION	
- HTWS HIGH TEMPERATURE WATER SUPPLY	SHOWER & TYPE	ELECTRIC THERMOSTAT UP 4'-0" UNLESS	SINGLE 30AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	►® W NURSE CALL CORRIDOR LIGHT — WALL MOUNT	FWCO FINISHED WALL CLEANOUT	
HTWR —— HIGH TEMPERATURE WATER RETURN		NOTED OTHERWISE	SINGLE 30AMP, 250V, 2P, 3W GROUNDING		HHP HYDRONIC HEAT PUMP	
- CWS —— CHILLED WATER SUPPLY	DRINKING FOUNTAIN & TYPE	ELECTRIC NIGHT THERMOSTAT UP 4'-0"	TYPE RECEPTACLE	№1 NURSE CALL PATIENT STATION — SINGLE CALL CORD	HW DOMESTIC HOT WATER	
- CWR CHILLED WATER RETURN - CHS CHILLED / HOT WATER SUPPLY	JANITORS BASIN & TYPE	EN UNLESS NOTED OTHERWISE	SINGLE 30AMP, 125/250V, 3P, 4W GROUNDING TYPE RECEPTACLE	NURSE CALL PATIENT STATION — DOUBLE CALL CORD	HWR HOT WATER RETURN HWS HOT WATER SUPPLY	
- CHR CHILLED / HOT WATER RETURN	1 SHOWER HEADS & TYPE	<b>▶⊕</b> ELECTRIC HUMIDISTAT	SINGLE 20AMP, 250V, 3 PHASE, 3P, 4W	NURSE CALL DUTY STATION	OA OUTSIDE AIR	
— C — CONDENSER WATER SUPPLY			GROUNDING TYPE RECEPTACLE	NURSE CALL EMERGENCY STATION — PULL CORD	RA RETURN AIR	
	LINEAR SLOT DIFFUSER	MOTOR — USE INDICATED	SINGLE 60AMP, 125/250V, 3P, 4W	NURSE CALL EMERGENCY STATION — PUSH BUTTON	SA SUPPLY AIR	
- HPS HEAT PUMP SUPPLY	INSULATED FLEXIBLE DUCT	SOLENOID VALVE	CHOILE FOUND OF OUR TRUITE TO ANY	NICB NURSE CALL CODE BLUE STATION DC DOOR ALARM CONTACT	UH UNIT HEATER	
- HPR HEAT PUMP RETURN	VOLUME DAMPER WITH LOCKING QUADRANT	● FS FREEZE STAT	SINGLE 50AMP, 250V, 3 PHASE, 3P, 4W GROUNDING TYPE RECEPTACLE	DOOR ALARM ANNUNCIATOR	UV UNIT VENTILATOR	
- RL REFRIGERANT LIQUID	VOLOME DAMPER WITH ECCRING QUADRANT	\$ 15AMP, SINGLE POLE 120/277V SWITCH	SINGLE 20AMP, 120/208V, 3 PHASE, 4P,	MONITOR JUNCTION BOX	V VENT	
- RD REFRIGERANT DISCHARGE (HOT GAS)	BRANCH DUCT WITH 45° BOOT FITTING	$\S_3$ 15AMP, THREE-WAY 120/277V SWITCH	4W GROUNDING THE RECEPTACLE	CLOSED CIRCUIT TELEVISION MONITOR	VTR VENT THRU ROOF	
REFRIGERANT SUCTION	ELBOW WITH TURNING VANES	S₄ 15AMP, FOUR-WAY 120/277V SWITCH	SINGLE 60AMP, 120/208V, 3 PHASE, 4P, 4W GROUNDING TYPE RECEPTACLE	CLOSED CIRCUIT TELEVISION CAMERA	W WASTE	
RDB — REFRIGERANT DISCHARGE BYPASS	<b>I</b> -√ <b>I</b>	S <sub>P</sub> 15AMP, SINGLE POLE 120/277V SWITCH WITH PILOT LAMP	PLUGMOLD - OUTLETS AT 12" O.C.	MASTER CLOCK		
- IN INTAKE PIPING	BRANCH DUCT WITH BELLMOUTH SPIN-IN FITTING WITH MANUAL VOLUME DAMPER	\$ 20AMP, SINGLE POLE 120/277V SWITCH	UNLESS NOTED OTHERWISE	SECONDARY CLOCK	PLAN NOTATIONS:	
— EX ———		\$ 20AMP, THREE-WAY 120/277V SWITCH	CLOCK OUTLET (RECEPTACLE)	INTERCOM ADMINISTRATIVE CONTROL UNIT		REVISION SCHEDULE
→ CHECK VALVE	EQUIP. WITH FLEXIBLE DUCT CONNECTION	\$4 20AMP, FOUR-WAY 120/277V SWITCH	▼ ** TELEPHONE OUTLET	MA MUSIC SYSTEM AMP	INDICATES DIRECTION OF NORTH	NO. DATE ISSUE
BALANCING VALVE W/ PRESSURE PORTS	RETURN, EXHAUST OR FRESH AIR DUCT UP	20AMP, SINGLE POLE 120/277V SWITCH	RECESS MOUNTED FLOOR TELEPHONE OUTLET	PA PAGING SYSTEM AMP	NORTH NORTH	
→ TRIPLE DUTY VALVE W/ PRESSURE PORTS	RETURN, EXHAUST OR FRESH AIR DUCT DOWN	WITH PILOT LAMP	RECESS MOUNTED FLOOR TELEPHONE OUTLET	₩ALL SPEAKER  COMBINATION CLOCK SPEAKER	DETAIL REFERENCE — UPPER NUMBER	
STRAINER		\$ 20AMP, MOMENTARY CONTACT 120/277V SWITCH	SURFACE MOUNTED FLOOR TELEPHONE OUTLET	© CEILING SPEAKER	INDICATES DETAIL NUMBER, LOWER NUMBER	
RELIEF VALVE	X SUPPLY AIR DUCT UP	20AMP, SINGLE POLE 120/277V SWITCH	** COMPUTER DATA OUTLET	COLUMN SPEAKER	INDICATES SHEET NUMBER.	
©——— AUTOMATIC FLOW CONTROL VALVE	X SUPPLY AIR DUCT DOWN	→ KEY OPERATED		■ GOLOMIN SI LAKER  ■ HORN TYPE SPEAKER	PLAN NOTE REFERENCE	
MOTORIZED VALVES MOTORIZED VALVES	——————————————————————————————————————	\$2 20AMP, DOUBLE POLE 120/277V SWITCH	FLOOR MOUNTED COMPUTER DATA OUTLET	MICROPHONE OUTLET − WALL	100 ROOM NUMBER REFERENCE	
TEMPERATURE REGULATING VALVE		\$ 30AMP, DOUBLE POLE 120/277V SWITCH	** TELEVISION OUTLET - WALL MOUNT	MICROPHONE OUTLET - FLOOR		This drawing has been prepared under the architect's supervision architect disclaims any responsibility for the existing building struction existing site conditions, existing construction elements, and any
SOLENOID VALVE	- 10x10 B 250 REGISTER, SIZE, TYPE & CFM	S <sub>D</sub> DIMMER SWITCH — 120V SHOA "HAND-OFF-AUTO" SELECTOR SWITCH	** TELEVISION OUTLET - TABLE/CABINET MOUNT	LOCAL AMPLIFIER	INDICATES CONNECTION TO EXISTING SYSTEM	drawings or documents used for this project that are not signed ar sealed by the architect. The information herein is of propietary nat
PRESSURE REDUCING VALVE	- 10"¢ © 250 REGISTER, SIZE, TYPE & CFM	S <sub>to</sub> MANUAL STARTER WITH THERMAL OVERLOADS		▼ REMOTE VOLUME CONTROL		and is submitted in confidence for the use of our clients only.  Unauthorized reproduction, distribution, or dissemination, in whole in part is prohibited. The information contained herein is and remaining the contained the contained herein is the contained herein in th
YPA PIPE ANCHOR		S <sub>ot</sub> MANUAL STARTER WITH THERMAL OVERLOADS	** THESE OUTLETS REQUIRE 4/S — 3/4 BOX WITH SINGLE GANG PLASTER RING AND 3/4"	© CALL—IN STATION		the property of Hufft Projects LLC and receipt or possesion of this information confers no right in or license to disclose to others the subject matter contained herein for any but authorized purposes.
SLIDING EXPANSION JOINT	REGISTER, SIZE, TYPE & CFM	S <sub>ET</sub> 120V ELECTRONIC TIMER	CONDUIT WITH 90° SWEEP ABOVE CEILING	MOTION DETECTOR		rights reserved. Copyright © 2014
DELLANG EVENIGION TOUT	REGISTER, SIZE, TYPE & CFM	\$ <sub>LV</sub> LOW VOLTAGE SWITCH	WITH DE-BURRED END	CLOSED CIRCUIT TELEVISION OUTLET		Drawn By: TREVOR KARSTENS Project Number: 11136 Contact Number: 913-322-1400 AR COA Number: 1163
BELLOTTO EXTENSION CONTI		S <sub>M</sub> NARROW SWITCH	CEILING FAN	PB PUSHBUTTON STATION		
→·  SPRINKLER HEAD	RECISTER SIZE TYPE & CEM	T11	LIQUEINO A APPLIANCE PANEL	PL PILOT LIGHT BANK		
→ SPRINKLER HEAD  REDUCER	REGISTER, SIZE, TYPE & CFM	\$ <sub>oc</sub> WALL SWITCH OCCUPANCY SENSOR	LIGHTING & APPLIANCE PANEL	DELAV CADIALET		
> → → SPRINKLER HEAD  REDUCER  PIPE GUIDE	REGISTER, SIZE, TYPE & CFM  FID FIRE DAMPER	\$ <sub>oc</sub> WALL SWITCH OCCUPANCY SENSOR	DISTRIBUTION, FEEDER OR POWER PANEL	RELAY CABINET		
SPRINKLER HEAD  REDUCER  PIPE GUIDE  → PIPING SUPPORTED ON ROOF		Soc WALL SWITCH OCCUPANCY SENSOR  EXPOSED METAL RACEWAY - WIREMOLD	DISTRIBUTION, FEEDER OR POWER PANEL TELEPHONE TERMINAL CABINET ("TTC")	AMPLIFIER		
SPRINKLER HEAD  REDUCER  PIPE GUIDE  PIPING SUPPORTED ON ROOF  F & T TRAP	FIRE DAMPER  SMOKE DAMPER	EXPOSED METAL RACEWAY — WIREMOLD CONDUIT CONCEALED IN ROOF INSULATION	DISTRIBUTION, FEEDER OR POWER PANEL TELEPHONE TERMINAL CABINET ("TTC") PB PULL BOX	AMPLIFIER  LOW VOLTAGE CONTROL TRANSFORMER		
SPRINKLER HEAD  REDUCER  PIPE GUIDE  PIPING SUPPORTED ON ROOF  F & T TRAP  BUCKET TRAP	FIRE DAMPER  SMOKE DAMPER  FIRE/SMOKE DAMPER	EXPOSED METAL RACEWAY - WIREMOLD CONDUIT CONCEALED IN ROOF INSULATION CONDUIT CONCEALED IN CEILING OR WALL	DISTRIBUTION, FEEDER OR POWER PANEL TELEPHONE TERMINAL CABINET ("TTC")  PB PULL BOX MAGNETIC MOTOR CONTROLLER	AMPLIFIER		
SPRINKLER HEAD  REDUCER  PIPE GUIDE  PIPING SUPPORTED ON ROOF  F & T TRAP	FIRE DAMPER  SMOKE DAMPER	EXPOSED METAL RACEWAY — WIREMOLD CONDUIT CONCEALED IN ROOF INSULATION	DISTRIBUTION, FEEDER OR POWER PANEL TELEPHONE TERMINAL CABINET ("TTC") PB PULL BOX	AMPLIFIER  LOW VOLTAGE CONTROL TRANSFORMER  WALL MOUNT OCCUPANCY SENSOR & TYPE		

ME1

#### GENERAL ELECTRICAL NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, WIRE, BOXES, ETC. FOR THE INSTALLATION OF ALL THERMOSTATS. INSTALLATION AND CONNECTION OF THERMOSTAT WIRING SHALL BE BY THE HVAC CONTRACTOR.
- 2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, WIRE, BOXES, ETC. FOR THE INSTALLATION OF ALL FIRE ALARM DEVICES, DUCT DETECTORS, RELAYS, ETC. AS REQUIRED TO INSTALL A COMPLETE WORKING SYSTEM. COORDINATE ALL FIRE ALARM INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- 3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF CONWAY, ARKANSAS.
- 4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- 6. PROVIDE CONDUCTORS FOR LISTED APPLICATIONS AS FOLLOWS:

  LIGHTING AND RECEPTACLE CIRCUITS: TYPE THHN, 600 VOLT,
  75 DEGREE C (194 DEGREES F) THERMOPLASTIC INSULATED
  BUILDING CONDUCTOR.
- POWER CIRCUITS AND FEEDERS: TYPE THHN, 600 VOLT, 75 DEGREE C (194 DEGREES F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR.
- LOW VOLTAGE AND LINE VOLTAGE CONDUCTORS SIZES NO. 16 AND NO. 18 AWG: TYPE TFFN, 600 VOLT 90 DEGREES C (194 DEGREE F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR.
- UNDERGROUND POWER CIRCUITS AND FEEDERS: TYPE THHN/TWHN, 600 VOLT, 75 DEGREE C (167 DEGREES F) WET RATING AND 90 DEGREES C (194 DEGREES F) DRY RATED THERMOSETTING FILLED INSULATING CABLE.
- 7. CONDUIT CONNECTORS AND COUPLINGS SHALL COMPRESSION TYPE. SET SCREW TYPE CONDUIT FITTINGS SHALL NOT BE ALLOWED.
- 8. ALL POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
- 9. ALL RECEPTACLES SHALL BE AT 18" AFF UNLESS NOTED OTHERWISE.
- 10. DUPLEX RECEPTACLES SHALL BE HUBBELL MODEL 5352-GRY 20A, 125V, NEMA CONFIGURATION 5-20R GREY DUPLEX RECEPTACLE. WEATHER PROOF RECEPTACLES SHALL BE GFI TYPE MOUNTED IN APPROPRIATE WEATHERPROOF BOX WITH LIFT COVERPLATE.
- 11. SWITCHES SHALL BE RATED FOR 20A, 120-277V, GREY IN COLOR AND SHALL BE AS FOLLOWS:
- SINGLE POLE HUBBELL 1221 THREE WAY HUBBELL 1223
- 12. ALL DEVICES AND COVERPLATES SHALL BE STAINLESS STEEL.
- 13. RECESSED FLOOR BOXES SHALL BE STEEL CITY (REFER TO KEY NOTE FOR MODEL AND TYPE) CONCEALED SERVICE FLOOR BOX WITH CARPET PLATE AND DEVICE FACEPLATES AS REQUIRED FOR DEVICES TO BE INSTALLED AS SHOWN ON PLANS. EQUIVALENT FLOOR BOXES BY HUBBELL OR RACEWAY COMPONENTS.
- 14. EQUIVALENT MANUFACTURERS OF LIGHTING CONTROL PANEL AND ASSOCIATED ACCESSORIES (PHOTOCELLS, LOW VOLTAGE SWITCHES, ETC.) SHALL BE DOUGLAS LIGHTING CONTROLS, WATTSTOPPER, AND HUBBELL CONTROLS.
- 15. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY FOR ALL PANELS. DIRECTORY INFORMATION SHALL INCLUDE CIRCUIT NUMBER AND EQUIPMENT SERVED.
- 16. PROVIDE HEAVY DUTY AND GENERAL DUTY HORSEPOWER RATED SAFETY SWITCHES RATED IN ACCORDANCE WITH NEMA ENCLOSED SWITCH STANDARD KS-1-1957 AND UL 98 STANDARD AS SCHEDULED. ENCLOSURE SHALL BE NEMA TYPE REQUIRED BY SWITCH LOCATION AND ENVIRONMENT. DOOR SHALL HAVE LATCH WITH MEANS OF PADLOCKING. SWITCH SHALL HAVE AN EMBOSSED NAMEPLATE PERMANENTLY ATTACHED TO DOOR FRONT WITH SWITCH RATING, SHORT CIRCUIT INTERRUPTING CAPACITY AND APPLICATION INFORMATION. FUSE HOLDERS FOR 1-600 AMPERES SHALL BE HIGH PRESSURE TYPE FOR USE WITH CLASS R CURRENT LIMITING FUSES. FUSE HOLDERS SHALL BE COMPLETELY ACCESSIBLE FROM FRONT OF SWITCH. PROVIDE SWITCHES BY CUTLER-HAMMER, GENERAL ELECTRIC, ITE/SIEMENS, SQUARE D, OR WESTINGHOUSE.
- 17. PROVIDE 600 VOLT MECHANICALLY OR ELECTRICALLY HELD LIGHTING CONTACTORS WITH PROPER NEMA ENCLOSURE REQUIRED BY CONTACTOR LOCATION AND ENVIRONMENT. CONTACTORS SHALL HAVE SILVER ALLOY, DOUBLE BREAK POWER CONTACTS REPLACEABLE WITHOUT REMOVING POWER WIRING OR CONTACTOR FROM ENCLOSURE. COILS SHALL BE MOLDED CASE CONSTRUCTION PERMANENTLY MARKED WITH COIL VOLTAGE AND FREQUENCY AND BE REPLACEABLE WITHOUT REMOVING CONTACTOR FROM ENCLOSURE. CONTACTOR SHALL BE SUITABLE FOR ADDITION OF AT LEAST TWO ELECTRICAL INTERLOCKS OF ANY ARRANGEMENT OF NORMALLY OPEN OR CLOSED CONTACTS. PROVIDE CONTACTOR WITH ACCESSORIES SUCH AS AUXILIARY CONTACTS, PILOT LIGHTS, ON-OFF, OR H.O.A. SWITCHES REQUIRED TO OBTAIN CONTROL SEQUENCE SHOWN ON PLANS OR SPECIFIED. WHERE THREE OR MORE CONTACTORS ARE INSTALLED AT ONE LOCATION CONTACTORS MAY BE INSTALLED IN GROUP CONTROL PANEL IN LIEU OF SEPARATE DEVICES. CONTACTORS BY ALLEN BRADLEY, CUTLER-HAMMER, ITE/SIEMENS, SQUARE D, OR GENERAL ELECTRIC.
- 18. ALL ELECTRICAL BOXES SHALL BE GALVANIZED STEEL.
  BACK BOXES MOUNTED ON GALVANIZED STUDS AND
  SHALL HAVE BETWEEN-STUD MOUNTING BRACKETS EQUAL TO
  CADDY RBS16 OR RBS24. PROVIDE 3/4" MUD RINGS WHERE
  LOCATED IN WALLS WITH 5/8" THICK GYPSUM WALLBOARD.
  ALL MUD/PLASTER RINGS SHALL BE FLUSH WITH FINISHED
  WALL.
- 19. THE COVERS OF ALL BOXES SHALL BE LABELED WITH PERMANENT MARKER INDICATING THE PANELBOARD NAME AND CIRCUIT NUMBER(S) OF ALL INTERNAL WIRING.
- 20. ALL CONDUIT STUBS SHALL BE TERMINATED WITH BUSHINGS.
- 21. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- 22. PANELBOARDS SHALL BE SQUARE D TYPE NQOD PANELBOARDS WITH DEAD—FRONT CONSTRUCTION, TIN—PLATED COPPER BUS BARS, EQUIPMENT GROUND BUS, AND BOLT—ON HEAVY DUTY QUICK BREAK CIRCUIT BREAKERS. EQUIVALENT BY GENERAL ELECTRIC, SIEMENS, CUTLER—HAMMER. PANELS SHALL BE LABELED WITH PERMANENTLY AFFIXED ARC—FAULT WARNING LABELS.

- 23. PROVIDE DISTRIBUTION PANELBOARDS AS MANUFACTURED BY SQUARE-D. I-LINE TYPE. PANELBOARDS SHALL BE EQUIPPED WITH THERMAL-MAGNETIC, MOLDED CASE CIRCUIT BREAKERS OF FRAME AND TRIP RATINGS AS SHOWN ON THE SCHEDULE. PANEL BUS STRUCTURE AND MAIN BREAKER SHALL HAVE CURREN RATINGS AS SHOWN ON THE PANEL SCHEDULE. BRANCH CIRCUIT BREAKERS SHALL BE SQUARE "D" FA, KA, LA, MA, NH, PA AND/OR PC ONE, TWO OR THREE POLE MOLDED CASE CIRCUIT BREAKERS RATED 15 THROUGH 2500 AMPERES (VOLTAGE AS SHOWN WITHIN SCHEDULE), AS SPECIFIED ON THE DRAWINGS. ALL BUS, BREAKERS, ETC. TO BE UL AND CSA LISTED, IEC RATED, MEET NEMA STANDARDS. BREAKERS SHALL HAVE OVER CENTER TOGGLE-TYPE MECHANISMS, PROVIDING QUICK-MAKE, QUICK-BREAK ACTION. CIRCUIT BREAKERS WITH FRAME SIZES GREATER THAN 100 AMPERES SHALL HAVE VARIABLE MAGNETIC TRIP ELEMENTS. UNLESS INDICATED OTHERWISE, BRANCH BREAKERS UP TO 100 AMPS SHALL HAVE 10.000 RMS SHORT CIRCUIT AMP SYMMETRICAL INTERRUPTING CAPACITY AND GREATER THAN 100 AMPS SHALL HAVE 42,000 RMS CAPACITY.
- PANELBOARD ASSEMBLY SHALL BE ENCLOSED IN STEEL CABINET. CABINET SHALL MEET UL STANDARD 50 AND 67. ALL LOCKS SHALL BE KEYED ALIKE. ENDWALLS SHALL BE REMOVABLE. FRONTS SHALL BE OF CODE GAUGE STEEL. GRAY BAKED ENAMEL FINISH ELECTRO-DEPOSITED OVER CLEANED PHOSPHATIZED STEEL. INTERIOR SHALL BE DEAD FRONT WITH PANELBOARD FRONT REMOVED. MAIN LUGS OR MAIN BREAKERS SHALL HAVE BARRIERS ON FIVE SIDES. THE END OF THE BUS STRUCTURE OPPOSITE THE MAINS SHALL HAVE BARRIERS.
- PROVIDE UL LISTED GROUND SENSOR RELAY (GSR) SYSTEM WITH GROUND-BREAK COMPONENTS FOR MAIN BREAKER, IF 1000-AMPS OR LARGER. EACH UNIT SHALL CONSIST OF A COORDINATED GROUND SENSOR (CT) WITH INTEGRAL TEST WINDING, SOLID STATE RELAY TO OPERATE SHUNT TRIP CIRCUIT ON CIRCUIT PROTECTIVE DEVICE AND MONITOR PANEL. RELAY SHALL BE OF THE ZONE SELECTIVE INTERLOCK TYPE AND HAVE CONTINUOUSLY ADJUSTED CURRENT PICK-UP SETTINGS OF 100-1200 AMPERE AND CONTINUOUSLY ADJUSTABLE TIME DELAY SETTING FROM INST (.03 SEC) TO 1 SECOND. RELAY SHALL PROVIDE TWO INDEPENDENT OUTPUT CONTACTS EACH RATED FIVE AMPERES CONTINUOUS AND 30 AMPERES INRUSH AT (24,36,48,125 V DC OR 120,120/208,120/240 V AC). RELAY SHALL INCLUDE A MEMORY FUNCTION TO RECOGNIZE AND INITIATE TRIPPING ON INTERMITTENT GROUND FAULTS. MONITOR PANELS SHALL INDICATE RELAY OPERATION AND PROVIDE MEANS FOR TESTING SYSTEM WITH OR WITHOUT INTERRUPTION OF SERVICE AND MUST NOT PERMIT GROUND FAULT SYSTEM TO BE INADVERTENTLY LEFT IN AN INACTIVE OR AFF STATE. GROUND SENSOR SHALL BE INSTALLED FOR GROUND RETURN OR ZERO SEQUENCE ARRANGEMENT AS REQUIRED ON MAIN SERVICE DEVICE. ON FEEDER AND BRANCH DEVICES, FURNISH ZERO SEQUENCE SENSOR ARRANGEMENTS. SYSTEM SHALL BE G.E. TYPE "GROUND-BREAK" OR EQUIVALENT BY SQUARE "D" COMPANY.
- THE PANELBOARD SHALL BE PROVIDED WITH SURGE SUPPRESSION AND TVSS PROTECTION INSTALLED IN THE PANELBOARD OR DIRECTLY ADJACENT TO THE PANEL. SURGE ARRESTORS SHALL BE U.L. LISTED, 3—PHASE, 4—WIRE, RATED FOR THE SYSTEM VOLTAGE AND SHORT CIRCUIT LEVELS AVAILABLE AND SHALL BE EQUIVALENT TO THE CURRENT TECHNOLOGY MODEL CG—60 CURRENT GUARD—60 WITH DISCONNECT SWITCH AND PHASE PROTECTION RATING AS SUGGESTED BY E/M. SURGE ARRESTORS SHALL COME WITH ANSI/IEEE 62.11—1987 CERTIFICATION. TVSS SHALL MEET ALL THE REQUIREMENTS AND TEST PROCEDURES AS OUTLINED IN NEMA LS—1 STANDARDS "LOW VOLTAGE SURGE PROTECTIVE DEVICES". INSTALL PER MANUFACTURER AND N.E.C. REQUIREMENTS. EQUIVALENT BY NATIONAL LIGHTING PROTECTION, INNOVATIVE TECHNOLOGY.
- PANELS SHALL BE PROVIDED WITH PERMANENTLY AFFIXED ARC FAULT WARNING LABELS.
- EQUIVALENT MANUFACTURER'S SHALL BE SQUARE "D", GENERAL ELECTRIC, ITE/SIEMENS, CUTLER-HAMMER OR WESTINGHOUSE.
- 24. PROVIDE TIME SWITCHES AS INDICATED ON DRAWINGS AND IN SCHEDULE. EQUIVALENT BY INTERMATIC, TORK, OR RAINBIRD. ALL INTERLOCK WIRING BETWEEN THE LIGHTING CONTACTOR, TIME SWITCHES AND PHOTOCELLS SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE BASE BID.
- 25. VOICE AND DATA CABLE SYSTEMS TO BE PROVIDED AND INSTALLED BY OWNER.
- 26. SUBMIT A MINIMUM OF SIX (6) COPIES OF SHOP DRAWINGS ON ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS
- 27. PROVIDE TRANSFORMERS WITH RATINGS AND CAPACITIES AS LISTED IN SCHEDULE. MATERIALS AND PERFORMANCE SHALL COMPLY WITH APPLICABLE ANSI, NEMA AND UL-506 STANDARDS. EQUIVALENT TRANSFORMERS BY SQUARE D, GENERAL ELECTRIC, HEAVY-DUTY, SIEMENS, CHALLENGER.
- 28. ALL WIRING SHALL BE IN CONDUIT AND SHALL BE CONCEALED.29. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH APPROPRIATE LAMPING. ALL FLUORESCENT FIXTURES SHALL BE PROVIDED WITH 5000K COLOR LAMPS.

## GENERAL HVAC NOTES:

- 1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL MECHANICAL CODE, AS ADOPTED BY THE CONWAY. ARKANSAS.
- 2. DUCT MATERIALS SHALL BE AS FOLLOWS:

TRANSVERSE JOINTS TAPED.

- RECTANGULAR SUPPLY AIR DUCT 1" PRESSURE CLASS OR LESS: GALVANIZED SHEET METAL WITH 1/2" THICK, 3 LB. DENSITY DUCT LINER.
- ROUND SUPPLY AIR DUCT 1" PRESSURE CLASS OR LESS: GALVANIZED SNAPLOCK PIPE WITH TRANSVERSE JOINTS TAPED. WRAP WITH 1.5", 1.0 LB DENSITY FIBERGLASS DUCT WRAP WITH FOIL—SCRIM—KRAFT FACING.
- RECTANGULAR EXHAUST DUCT: GALVANIZED SHEET METAL WITH 1/2", 3 LB. DENSITY DUCT LINER.

  ROUND EXHAUST DUCT: GALVANIZED SNAP-LOCK PIPE WITH
- ROUND FLEXIBLE DUCT: UL LISTED CLASS 1 PRE-INSULATED FLEX DUCT. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 LINEAR FEET. FLEXIBLE DUCT SHALL NOT BE USED ON SYSTEMS WITH PRESSURE CLASS GREATER THAN 1".
- AT CONTRACTOR'S OPTION DUCTWORK MAY BE JOINED WITH PREFABRICATED GALVANIZED "DUCTMATE" SECTIONS. THE JOINT PACKING MATERIAL AND JOINT CONSTRUCTION DETAILS USING THIS METHOD SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- ALL DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE (ESP) OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
- 3. TURNING VANES SHALL BE EQUAL TO AERO-DYNE OR EQUAL 26 GAUGE H-E-P HIGH EFFICIENCY PROFILE AIR FOIL VANES MOUNTED 2-1/8 INCHES ON CENTER ON 24 GAUGE RUNNERS. AIR TURNS BY BARBER COLEMAN WILL BE ACCEPTABLE ON LOW PRESSURE ONLY.

- 4. VOLUME DAMPERS (ROUND VELOCITIES OVER 1500 FPM) SHALL BE EQUAL TO RUSKIN MODEL CDR25. DAMPERS SHALL BE BUTTERFLY TYPE CONSISTING OF CIRCULAR BLADE MOUNTED TO AXLE. VOLUME DAMPERS (ROUND VELOCITIES 1500 FPM AND LESS) SHALL BE EQUAL TO RUSKIN MODEL MDRS35. VOLUME DAMPERS (RECTANGULAR OVER 1500 FPM) SHALL BE EQUAL TO RUSKIN MODEL CD60 LOW LEAKAGE DAMPERS. VOLUME DAMPERS (RECTANGULAR 1500 FPM AND LESS) SHALL BE EQUAL TO RUSKIN MODEL CD35.
- COUNTERBALANCED BACKDRAFT DAMPERS SHALL BE EQUAL TO RUSKIN MODEL CBS7. BACKDRAFT DAMPERS SHALL BE EQUAL TO RUSKIN MODEL BDZ/A2.
- 6. FLEXIBLE CONNECTIONS SHALL BE EQUAL TO METALEDGE VENTGLAS PREFABRICATED FLEXIBLE CONNECTION OF 3-1/4 INCH WIDE HEAT AND FIRE RESISTANT NEOPRENE COATED GLASS FABRIC WITH TWO 3-INCH WIDE 24 GAUGE METAL STRIPS ATTACHED TO EACH EDGE. EQUAL BY VENT FABRICS INC OR DURO-DYNE CORP.
- 7. ACCESS DOORS SHALL BE CONCEALED FRAME, ACCESS DOORS IN CEILINGS, WALLS, OR FLOORS FOR ACCESS TO DUCTWORK, VALVES, CONTROLS, PIPING, ETC, INSTALLED UNDER THIS CONTRACT. DOORS SHALL NOT BE FORMED OF NOT LIGHTER THAN USS #14 GAUGE AND FRAMES SHALL NOT BE LESS THAN #16 GAUGE STEEL. HINGES SHALL BE CONCEALED LOOSE PIN SPRING TYPE. LOCKS SHALL BE FLUSH, SCREWDRIVER, CAM ACTION TYPE. DOORS AND FRAMES SHALL BE FURNISHED IN PRIME COAT OF GRAY RUST INHIBITIVE PAINT. EQUAL BY CESCO, NAILOR, HIGGINS, MILCOR, DONLEY.
- 8. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS, MANUAL 15d. ALL SUPPLY AIR DUCT PRESSURE CLASSES SHALL BE THE SAME AS THE EXTERNAL STATIC PRESSURE (ESP) OF THE EQUIPMENT SUPPLYING THE DUCT. THE EQUIPMENT ESP SHALL BE THE PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
- 9. ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" IN HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION.
- 10. BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- 11. ROUND TAKE—OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH WESCO BELL MOUTH FITTINGS, OR APPROVED EQUAL.
- 12. PROVIDE TURNING VANES IN ALL ELBOWS.
- 13. ALL THERMOSTATS SHALL BE SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, WIRE, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THERMOSTATS.
- 14. EQUIVALENT MANUFACTURERS OF GRILLES REGISTERS AND DIFFUSERS SHALL BE CARNES, TITUS, KRUEGER, OR ANEMOSTAT.
- 15. EQUIVALENT MANUFACTURERS OF EXHAUST FANS SHALL BE CARNES, LOREN COOK, PENN VENTILATOR, JENN INDUSTRIES, ACME, OR GREENHECK.
- 16. EQUIVALENT MANUFACTURERS OF FURNACES/CONDENSING UNITS SHALL BE YORK, LENNOX, TRANE, AND CARRIER. BLOWER COIL AND CONDENSING UNIT SHALL BE BY THE SAME MANUFACTURER.
- 17. EQUIVALENT MANUFACTURERS OF ELECTRIC UNIT HEATERS SHALL BE TRANE, REZNOR, LENNOX, OR MODINE.
- 18. BEFORE ANY PIPING, DUCTWORK CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- 19. ALL REFRIGERANT LINES SHALL EITHER BE TYPE ACR COPPER OR PRE-CHARGED LINES. PRE-CHARGED LINES SHALL BE SUPPLIED BY REFRIGERATION EQUIPMENT MANUFACTURER. SIZING AND INSTALLATION OF REFRIGERANT LINES SHALL BE AS RECOMMENDED BY E/M. ALL ACCESSORIES REQUIRED DUE TO EXCESSIVE LENGTHS OR HEIGHTS SHALL BE PROVIDED BY M/C. ALL SHALL BE TESTED. CONTACTOR SHALL EVACUATE PIPING SYSTEM WITH VACUUM PUMP, CHARGE WITH REFRIGERANT PRESSURE OF 10 PSIG, AND THEN ADMIT DRY NITROGEN UNTIL THE PRESSURE IS 150 PSIG. FINAL PRESSURE SHALL BE LEFT ON SYSTEM FOR A MINIMUM OF 4 HOURS. AFTER SYSTEM IS FOUND TO BE LEAK FREE, DOUBLE EVACUATE SYSTEM, LEAVING FINAL EVACUATION ON SYSTEM A MINIMUM OF 12 HOURS PRIOR TO CHARGING. PRE-CHARGED LINES NEED NOT BE TESTED EXCEPT WHERE LEAKS ARE SUSPECTED.
- 20. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLANS.
- 21. PROVIDE MANUAL VOLUME DAMPERS ON ALL SUPPLY AND EXHAUST BRANCH DUCTS.
- 22. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL

- 23. THE MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF AN INDEPENDENT FIRM TO PERFORM THE HVAC SYSTEM TESTING AND BALANCING. THE TESTING AND BALANCING FIRM SHALL BE A CERTIFIED MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL OR NEBB AND ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AABC NATIONAL STANDARDS. BALANCING AND TEST REPORTS SHALL BE SUBMITTED ON STANDARD AABC FORMS OR EQUIVALENT FORMS BY NEBB OR SMACNA.
  - THE M/C SHALL PREPARE THE SYSTEM FOR TEST AND BALANCE AS
- INSTALL, START-UP, CHECK OUT, AND ADJUST ALL HVAC SYSTEM PER DRAWINGS AND SPECIFICATIONS AND HAVE FULLY OPERATIONAL WITH ALL DEFICIENCIES CORRECTED ON OR BEFORE OWNER'S SUBSTANTIAL COMPLETION DATE.
- VERIFY THAT MECHANICAL CONTACTOR HAS INSTALLED NEW FILTERS NO MORE THAN ONE DAY PRIOR TO STARTING TEST AND BALANCE PROCEDURE.
- VERIFY ALL DUCTWORK IS CLEAN AND SEALED TIGHT AGAINST
- VERIFY THAT ALL CONTROLS, DAMPERS AND ACTUATORS ARE INSTALLED, ADJUSTED AND CALIBRATED.
- SECURE CONTROL DAMPERS AFTER TEST AND BALANCE.
- THE TEST AND BALANCE CONTRACTOR SHALL TEST AND BALANCE OF ALL AIR DISTRIBUTION SUPPLY, AND RETURN DUCT SYSTEMS, AND EXHAUST SYSTEMS TO THE DESIGN CONDITIONS IN ACCORDANCE WITH THE FOLLOWING:
- AIR HANDLING SYSTEMS: CLEAR SYSTEM OF ALL FOREIGN OBJECTS AND CLEAN SYSTEM, VERIFY FAN ROTATION, CHECK BEARING CONDITION AND LUBRICATION, CHECK FAN WHEEL CLEARANCES AND ALIGNMENT, CHECK MOTOR SECURITY TO MOUNTING BASE, ALIGNMENT OF DRIVE, VIBRATION ISOLATOR ADJUSTMENT, PROPER FILTER MEDIA IS INSTALLED, CONFIRM ALL FIRE AND VOLUME DAMPERS ARE INSTALLED AND IN FULL OPEN POSITION, ALL AIR TERMINAL UNITS ARE INSTALLED, CHECK FOR LEAKS IN DUCT SYSTEMS, AT EQUIPMENT CONNECTIONS AND AT COILS.
- MAKE ADJUSTMENTS TO IN PULLEYS, BELTS, DAMPERS, ETC AS REQUIRED BY THE BALANCE CONTRACTOR.
- MAKE ADJUSTMENTS IN TERMINAL AND DAMPER SETTINGS AS REQUIRED TO OBTAIN DESIGN SUPPLY, EXHAUST, AND RETURN CFM AS INDICATED ON DRAWINGS.
- MEASURE AND ADJUST ALL OUTLETS (OR INLETS) TO OBTAIN DESIGN CFM.
- MEASURE AND ADJUST ALL BRANCH DUCTS TO OBTAIN DESIGN CFM.
- ADJUST OUTLET DEFLECTION VANES TO MINIMIZE DRAFTS.
- IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY UPON FINDING ANY DEFICIENCIES IN CAPACITIES TO IMMEDIATELY CALL TO ENGINEER'S ATTENTION FOR DIRECTION. NEW AIR QUANTITIES MAY BE ASSIGNED.
- THE TESTING AND BALANCING REPORT SHALL INCLUDE A ROOM BY ROOM REPORT INDICATING THE SUPPLY AIR, RETURN AIR, AND/OR EXHAUST AIR CFM.

#### **GENERAL PLUMBING NOTES:**

- 1. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL PLUMBING CODE, AS ADOPTED BY THE CITY OF CONWAY, ARKANSAS.
- 2. COOPERATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK, CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
- 3. INSULATE ALL DOMESTIC WATER AND HVAC CONDENSATE DRAIN PIPING WITH 1/2" AP ARMAFLEX. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND A SMOKE DEVELOPED RATING NO GREATER THAN 50.
- 4. HOSE BIBBS SHALL BE WOODFORD MODEL 24P-3/4 OR EQUAL ANGLE HOSE BIBB WITH MODEL 34HF VACUUM BREAKER AND LOOSE TEE HANDLE. EQUIVALENT BY WADE, ZURN, J.R. SMITH.
- 5. FINISHED FLOOR CLEANOUTS SHALL BE J.R. SMITH MODEL 4031 CAST IRON CLEANOUT WITH ROUND NICKEL BRONZE SCORIATED COVER, PROVIDE CARPET MARKERS IN AREAS SCHEDULED TO RECEIVE CARPETING. EQUIVALENT FINISHED FLOOR CLEANOUTS BY WADE, OR ZURN.
- 6. FINISHED WALL CLEANOUTS SHALL BE J.R. SMITH SERIES 4710 STAINLESS STEEL WALL CLEANOUT COVER WITH CENTER SCREW AND PVC CLEANOUT TEE WITH THREADED PLUG. EQUIVALENT BY WADE, OR ZURN.
- 7. FLOOR DRAIN TYPE "A" SHALL BE J.R. SMITH MODEL 2005—A INSIDE CAULK CAST IRON BODY FLOOR DRAIN WITH INTEGRAL FLASHING COLLER AND ADJUSTABLE ROUND NICKEL BRONZE STRAINER HEAD; NEOPRENE PUSH ON GASKET MAY BE USED IN LIEU OF INSIDE CAULK AT CONTRACTOR'S OPTION. PROVIDE A P—TRAP FOR ALL FLOOR DRAINS. EQUIVALENT FLOOR DRAINS BY WADE, OR ZURN. PROVIDE TRAP SEAL PRIMER PRESSURE DROP TYPE MI—FAB MODEL M2—500 PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER OR EQUAL. TRAP PRIMER SHALL SERVE UP TO 3 FLOOR DRAIN TRAPS AND REQUIRES NO ADJUSTMENTS AND NO AIR PRE—CHARGE. PRIMER VALVES SHALL BE LOCATED BENEATH NEAREST SINK OR LAVATORY AND SHALL BE CONNECTED TO TRAP PRIMERS WITH COPPER TUBING ROUTED BELOW GRADE FROM PRIMER TO FLOOR DRAIN TRAP.
- 8. FLOOR SINK TYPE "A" SHALL BE J.R. SMITH, ACID RESISTANT COATED, MODEL 3161Y—NB—F—C WITH REMOVABLE STRAINER AND SEEPAGE CONTROL FLANGE. SEE ARCHITECTURAL PLANS FOR SINK TOP ELEVATIONS AND FLOOR DRAINAGE. EQUIVALENT FLOOR SINKS BY JOSAM, WADE, OR ZURN.
- 9. FLOOR SINK TYPE "B" SHALL BE J.R. SMITH, ACID RESISTANT COATED, MODEL 3120Y-NB-F-C WITH REMOVABLE STRAINER AND SEEPAGE CONTROL FLANGE. SEE ARCHITECTURAL PLANS FOR SINK TOP ELECATIONS AND FLOOR DRAINAGE. EQUIVALENT FLOOR SINKS BY JOSAM, WADE, OR ZURN.
- 10. ALL SHUTOFF VALVES ON DOMESTIC WATER SHALL BE APOLLO SERIES 70—100 BRONZE FULL PORT BALL VALVE 600 PSI—WOG WITH TEFLON SEATS, BRONZE BALL, SILICON BRONZE STEM INSULATED HANDLE, AND SCREWED OR SOLDER ENDS. EQUIVALENT VALVES BY NIBCO—SCOTT, CRANE, FAIRBANKS, HALE, MUESCO STOCKHAM, KENNEDY, KEYSTONE, OR POWELL.
- 11. STOPS AND SUPPLIES SHALL BE 1/2" THREADED BY 3/8" COMPRESSION ANGLE STOP VALVES WITH 3/8" O.D. FLEXIBLE RISER WITH CHROME PLATED WALL FLANGE.

CHIEF. OR J.R. SMITH.

12. PROVIDE JOSAM ABSORBTRON SHOCK ABSORBERS ON ALL PLUMBING FIXTURE BATTERIES WHERE SHOWN N PLANS SIZED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH201. EQUIVALENT SHOCK ABSORBERS BY WADE, SIOUX

- 13. EQUIVALENT PLUMBING FIXTURES BY AMERICAN STANDARD, TOTO, KOHLER, ELJER, OR CRANE.
- 14. EQUIVALENT FAUCETS AND FITTINGS BY AMERICAN STANDARD, KOHLER, ELJER, CRANE, MOEN, TOTO OR DELTA.
- 15. EQUIVALENT WATER HEATERS BY RHEEM, NATIONAL, BRADFORD—
- WHITE, LOCHINVAR, AND PVI.

  16. ALL WATER HEATERS SHALL BE PROVIDED WITH AN EXPANSION
- TANK. EQUAL TANKS BY WADE, AMTROL.
- 17. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES AND MATERIAL FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS.
- 18. PROVIDE A MINIMUM OF SIX (6) COPIES OF SHOP DRAWINGS FOR ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 19. ROOF DRAIN TYPE "A" SHALL BE J.R. SMITH MODEL
  1010—C—R—A—U WITH DECK CLAMP, DRAIN RECEIVER, AND
  ALUMINUM VANDAL PROOF DOME. PROVIDE EXTENSIONS AS
  REQUIRED FOR ROOF INSULATION THICKNESS. ROOF DRAIN SUMP
  TO BE INSULATED. ROOF DRAINS SHALL BE AS MANUFACTURED BY
  WADE, WATTS, OR ZURN



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NO. DATE

REVISION SCHEDULE

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SHEET MEP SPECIFICATIONS

#### FUTURE INFRARED HEATER SCHEDULE INPUT DUTPUT BLOWER (MBH) (MBH) CFM TUBE LENGTH (FT) MANUFACTURER MODEL # TYPE ACCESS. MARK VOLT/PH MCA MOCP IRH1 31.0 24.8 120/1 .5 15 MB,DM,CT,T REVERBERRAY 31.0 .5 15 MB,DM,CT,T IRH2 120/1 REVERBERRAY

ABBREVIATIONS:

MB — MOUNTING BRACKET

DM — DISCONNECTING MEANS

R - ALUMINUM REFLECTORS

CA - COMBUSTION AIR KIT ST - STRAIGHT TUBE

T — MODULATING, HEATING ONLY THERMOSTATS WITH INFRARED SHIELDING — REFER TO THE PLANS FOR
THE EXACT QUANTITY (UP TO FOUR UNITS MAY BE CONTROLLED FROM A SINGLE THERMOSTAT).
 UT — U TUBE

CT - 120VAC/24VAC CONTROL TRANSFORMER, SIZED PER MANUFACTURER REQUIREMENTS

# ① \*LP2\* GAS PIPING TO UTILITY SERVICE BY CONTRACTOR. REGULATE TO APPROXIMATE LOCATION OF NATURAL GAS SERVICE. COORDINATE WITH UTILITY AND PROVIDE REGULATOR AND SHUT-OFF VALVE. 1 SITE UTILITIES PLAN ME3 SCALE: 1"-10' NOR

# NOTES:

noute through lighting contactor "Lc1".

PROVIDE ROUGH-IN AND CIRCUITING FOR INTERNALLY LIT SIGNAGE. VERIFY LOCATION WITH ARCHITECT AND CIRCUITING REQUIREMENTS WITH MANUFACTURER.

PROVIDE STUB-UP AND CIRCUITING FOR INTERNALLY LIT SIGNAGE. VERIFY LOCATION WITH ARCHITECT AND CIRCUITING REQUIREMENTS WITH MANUFACTURER. PROVIDE WEATHERPROOF DISCONNECTING MEANS IF NOT INTEGRAL TO

4 1.5" DOMESTIC WATER SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.

PROVIDE BACKBOX AND 1" CONDUIT BACK TO PANEL "LP2 FOR FUTURE RADIANT HEATER". VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.

6 SPACE RESERVED FOR FUTURE RADIANT HEATER.

7 4" SANITARY SEWER. REFER TO CIVIL PLANS FOR

CONTINUATION.

(B) ROUTE CIRCUITS THROUGH ANIMATOR CONTROL BOX "ACB", LOCATED IN OFFICE-3.

BRANCH CIRCUIT & FEEDER SCHEDULE:

# 1 2-#10 AND 1-#10 GROUND IN 0.75" CONDUIT.

#### GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT CONWAY CORPORATION AND ARRANGE FOR ELECTRIC SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

. CONTRACTOR SHALL CONTACT CONWAY CORPORATION AND ARRANGE FOR WATER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

. CONTRACTOR SHALL CONTACT CENTER POINT ENERGY AND ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR GAS SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.



PROJECT INFORMATION

Andy's Custard - Conway

Arkansas

2375 Dave Ward Drive, AR 72034

Bid Set

March 09, 2015

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OTES:

REVISION SCHEDULE

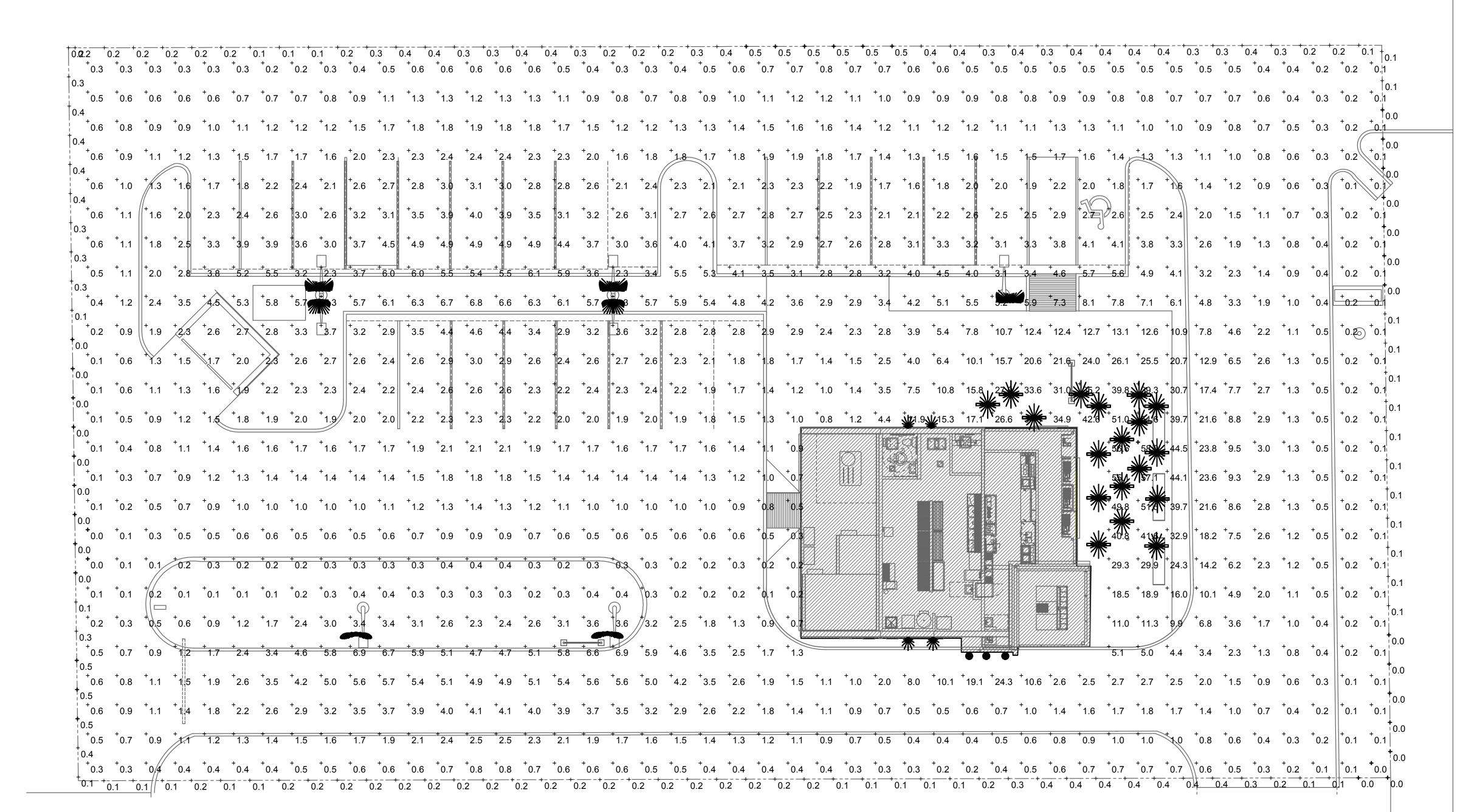
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Contact Number: 913-322-1400 AR COA Number: 1163

SHEET MEP SITE UTILITIES PLAN

ME3







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NOTES:

REVISION	SCHEDU
NO	DΔT

VO. DATE

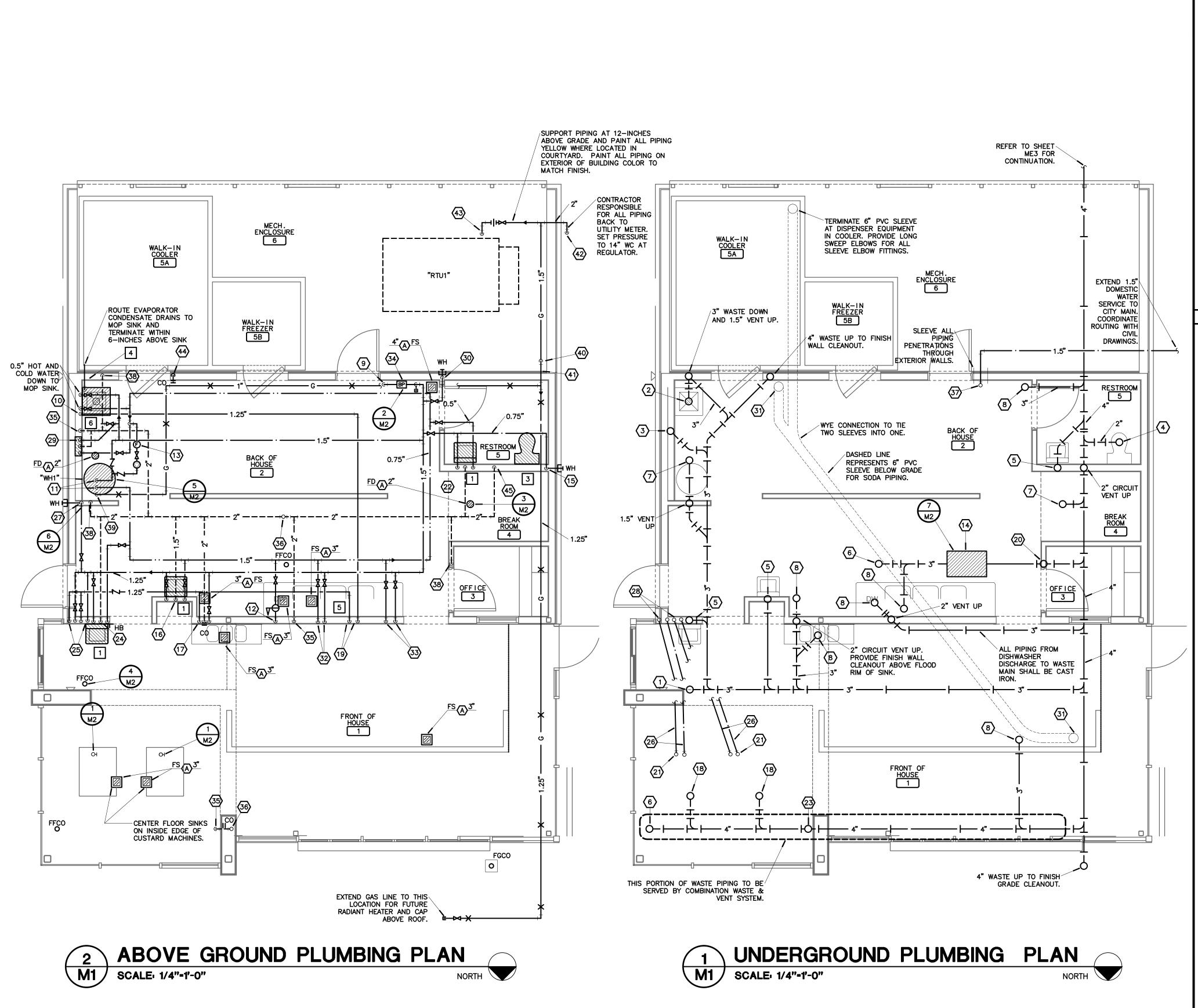
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SHEET PHOTOMETRIC SITE PLAN

ME4



# NOTES:

#### PLUMBING FIXTURE SCHEDULE:

- 1 1 WALL HUNG LAVATORY: AMERICAN STANDARD 0355.012 LUCERNE 20"x18", VITREOUS CHINA LAVATORY WITH WALL HANGER SUPPORT AND FRONT OVERFLOW. PROVIDE WITH WALL HANGER AND FAUCET TYPE 2. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS. PROVIDE HANDI LAV-GUARD INSTALLATION KIT CONFORMING TO ADA 4.19.4 FOR INSTALLATION OF P-TRAP, TAILPIECE AND ANGLE STOP VALVE ASSEMBLIES (COLOR AS SPECIFIED BY ARCHITECT). PROVIDE THERMOSTATIC MIXING
- 2 LAVATORY FAUCET: AMERICAN STANDARD MODEL 5400.172H HERITAGE WITH CERAMIC DISK VALVING, 2.5 GPM AERATOR, GRID DRAIN WITH 1.25" TAILPIECE, AND CHROME BLADE-TYPE
- 3 ADA WATER CLOSET: GERBER MODEL DF-21-318, DUAL-FLUSH, PRESSURE ASSISTED, VITREOUS CHINA WATER CLOSET WITH ELONGATE BOWL, LOW CONSUMPTION PRESSURIZED DUAL-FLUSH ACTION. SIPHON JET. AND 17" BOWL HEIGHT. PROVIDE WITH CHURCH MODEL 9500C OPEN FRONT WHITE PLASTIC SEAT LESS COVER, WITH CONCEALED CHECK STAINLESS STEEL HINGES. PROVIDE TRIP LEVER OPPOSITE SIDE OF GRAB BARS.
- 4 FLOOR MOUNT MOP BASIN: FIAT MSB-2424, 24"x24" MOLDED STONE MOP BASIN WITH 8322-AA HOSE AND HOSE BRACKET AND STAINLESS STEEL WALL GUARDS, 889—CC MOP HANGER, QDC-35N QUICK DRAIN CONNECTOR, 3" GRID DRAIN AND 830-11 FAUCET, THREAD SPOUT AND WALL BRACE. EQUIVALENT BY STERNS WILLIAMS.
- WALL MOUNT FAUCET: CHICAGO FAUCET MODEL 332-CP, SINGLE HOLE S6 CAST SWING SPOUT 369 INDEXED LEVER HANDLE, 2.2 GPM PRESSURE COMPENSATING SOFT FLOW AERATOR, INTEGRAL WALL FLANGE. MEETS ADA, ASME A112.18.1 AND NSF 61 CODES AND STANDARDS.
- WASHER SUPPLY BOX: OATEY MODEL 38565 CENTER DRAIN WASHING MACHINE OUTLET BOX WITH HIGH IMPACT POLYSTYRENE, 4 SUPPORT BRACKETS, 1/4 TURN BRASS BALL VALVES AND

#### GENERAL NOTES:

- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL PLUMBING CODE AS ADOPTED BY THE CITY OF CONWAY, ARKANSAS.
- PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- CLOSELY COORDINATE WORK WITH ALL OTHER
- REFER TO SPECIFICATIONS FOR ALL FLOOR DRAINS AND FLOOR SINKS. TYPE IS GIVEN IN DESIGNATION AND SIZE REFERS TO WASTE PIPING CONNECTION.
- MAINTAIN MANDATORY 10'-0" CLEARANCE FROM ALL VENTS AND OUTSIDE AIR INTAKES. REFER TO HVAC PLANS FOR LOCATIONS PRIOR TO VENT
- 6. ALL WATER, VENT AND WASTE PIPING SHALL BE ROUTED TIGHT TO THE CEILING STRUCTURE OR THRU THE BAR JOISTS. COORDINATE ROUGH-IN
- ALL PLUMBING FIXTURES SHALL HAVE SHUTOFF VALVES INSTALLED ABOVE ACCESSIBLE CEILING, WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- INSULATE ALL DOMESTIC WATER AND HVAC CONDENSATE DRAIN PIPING WITH 1/2" AP ARMAFLEX. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND A SMOKE DEVELOPED RATING NO GREATER
- CONTRACTOR SHALL CONTACT THE LOCAL WATER DEPARTMENT AND ARRANGE FOR WATER SERVICE AND FIRE SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE REQUIREMENTS OF LOCAL AUTHORITIES.
- 10. CONTRACTOR SHALL CONTACT THE LOCAL AUTHORITIES AND ARRANGE FOR SEWER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SEWER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- 11. CONTRACTOR SHALL CONTACT THE LOCAL GAS COMPANY AND ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIAL AS REQUIRED BY LOCAL AUTHORITIES FOR GAS SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

# **NOTES:**

#### 1) 3" WASTE UP TO CLEANOUT.

- 2) 3" TRAPPED WASTE UP TO MOP BASIN.
- 3 2" WASTE UP TO LAUNDRY BOX.
- 4) 4" WASTE UP TO WATER CLOSET.
- 5 2" WASTE UP TO LAVATORY/SINK.
- (6) 4" WASTE UP TO CLEANOUT.
- 7) 2" TRAPPED WASTE UP TO FLOOR DRAIN.
- (8) 3" TRAPPED WASTE UP TO FLOOR SINK. VERIFY LOCATION WITH EQUIPMENT SUPPLIER AND OWNER PRIOR TO ROUGH-IN. 9) 1.5" WATER SERVICE DOWN TO BELOW GRADE.

PROVIDE BACKFLOW PREVENTER EQUAL TO WATTS 007 AND SHUTOFF VALVE AND UNION ON EACH

- SIDE OF BACKFLOW PREVENTER. REFER TO CIVIL DRAWINGS FOR CONTINUATION. (10) 1.25" CUSTARD MACHINE DISCHARGE DOWN TO
- 1.5" HOT AND COLD WATER DOWN TO WATER HEATER. PROVIDE SHUTOFF VALVE AND UNION AT EACH CONNECTION.
- 2) 0.5" HOT WATER DOWN TO DISH MACHINE PROVIDE PRESSURE REDUCING VALVE EQUAL TO WATTS 123LP TO REGULATE WATER PRESSURE DOWN TO 20 PSI, AS REQUIRED BY DISH MACHINE. REFER TO DISH MACHINE MANUFACTURER'S DATA.
- 3) PROVIDE 1 GPM AUTOFLOW CONTROL VALVE.
- 4) PROVIDE J.R. SMITH 20 GPM GREASE INTERCEPTOR WITH EXTENSION FOR RECESSED INSTALLATION, MODEL #8220. PROVIDE INTERCEPTOR WITH GREASE SENSOR/ALARM INTERFACE TO ALERT OWNER WHEN UNIT REQUIRES SERVICE.
- (15) 0.75" COLD WATER AND 1.5" VENT DOWN. TEE 0.5" COLD WATER AND ROUTE 0.5" COLD WATER TO SERVE WATER CLOSET. CONTINUE 0.75" COLD WATER TO FREEZEPROOF EXTERIOR WALL
- (16) 0.5" HOT AND COLD WATER AND 1.5" VENT DOWN TO LAVATORY/SINK. PROVIDE LEONARD MODEL TA-SB MIXING VALVE BELOW LAVATORIES TO SUPPLY 120 DEGREE HOT WATER TO FAUCET
- (17) 0.75" COLD WATER DOWN AND 0.5" CONDENSER WATER DISCHARGE DOWN TO ICE MACHINE. TEE 0.5" COLD WATER TO ICE MACHINE WATER FILTER AND CONDENSER INLETS. 2" CIRCUIT VENT DOWN.
- (18) 3" TRAPPED WASTE UP TO FLOOR SINK.
- (19) 1.25" CUSTARD MACHINE DISCHARGE DOWN TO SINK FAUCET. AFTER FAUCET, PROVIDE BALL VALVE FOR SHUT-OFF WHEN USING FAUCET.
- (20) 1.5" VENT UP. VENT BELOW GRADE SHALL BE ROUTED AT A MINIMUM OF 45-DEGREES.
- 1**)** 1" COLD WATER AND 1" CUSTARD DISCHARGE UP. TEE ABOVE GRADE TO CUSTARD MACHINE. STUB UP 4" AFF AND PROVIDE SHUT OFF VALVE AND BACKFLOW PREVENTER EQUAL TO WATTS MODEL Cu7 ON COLD WATER LINE.
- 22 0.5" HOT AND COLD WATER AND 1.5" VENT DOWN TO LAVATORY.
- 3 2" VENT UP TO SERVE COMBINATION WASTE AND VENT BRANCH. PROVIDE WALL CLEANOUT IN VENT
- (24) 0.75" HOT AND COLD WATER AND 1.5" VENT DOWN. TEE 0.5" HOT AND COLD WATER TO LAVATORY, TEE 0.75" HOT AND COLD WATER TO HOSE BIBBS. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- (25) 1" COLD WATER AND 1" CUSTARD MACHINE DISCHARGE DOWN TO BELOW GRADE.
- 26) UNDERGROUND WATER PIPING TO BE ROUTED IN 4" PVC SLEEVE. ROUTE PIPING BETWEEN 2'-0" AND 2'-8" BELOW FINISH FLOOR TO COORDINATE WITH BEARING WALL AND FOOTING. INSULATE.
- 7) 0.75" COLD WATER DOWN TO EXTERIOR
- FREEZEPROOF WALL HYDRANT. 28) 1" COLD WATER AND 1" CUSTARD MACHINE DISCHARGE UP WITHIN WALL TO ABOVE CEILING.
- 29) 0.5" HOT AND COLD WATER AND 1.5" VENT DOWN TO WASHER SUPPLY BOX.
- 30) 0.75" COLD WATER DOWN TO WALL HYDRANT. 1) TERMINATE 6" PVC SLEEVE AT DISPENSER
- EQUIPMENT. HOLD TIGHT TO WALL. 32) 0.75" HOT AND COLD WATER DOWN TO SINK 33 0.5" HOT AND COLD WATER DOWN TO SINK.
- (34) PROVIDE CONNECTION TO LANDSCAPE IRRIGATION SYSTEM. VERIFY SIZE AND CONNECTION LOCATION WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.
- 35) 2" VENT DOWN.
- (36) 2" VENT UP TO 3" VTR.
- 37 1.5" DOMESTIC WATER SERVICE UP TO BACKFLOW PREVENTER ASSEMBLY.
- (38) 1.5" VENT DOWN.
- 39 1" NATURAL GAS DOWN THROUGH ROOF TO SERVE WATER HEATER. PROVIDE SHUTOFF VALVE, UNION, AND 6" DIRT LEG WITH THREADED CAP AT EQUIPMENT.
- 40 1.5" GAS LINE DOWN ALONG EXTERIOR WALL. PAINT GAS LINE TO MATCH WALL.
- 41) GAS PIPING PAST THIS POINT TO BE INSTALLED ON ROOF. GAS PIPING ON ROOF TO BE PAINTED
- 42 GAS SERVICE DOWN TO BELOW GRADE. COORDINATE UNDERGROUND ROUTING WITH CIVIL DRAWINGS AND UTILITY REQUIREMENTS.
- (43) 0.75" GAS LINE TO ROOFTOP UNIT. PROVIDE SHUTOFF VALVE, UNION, AND 6" DIRT LEG WITH THREADED CAP.
- 44 4 WASTE DOWN FROM FINISH WALL CLEANOUT.
- (45) 2" CIRCUIT VENT DOWN.

PROJECT INFORMATION

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Andy's Custard - Conway

Bid Set

March 09, 2015

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REVISION SCHEDULE

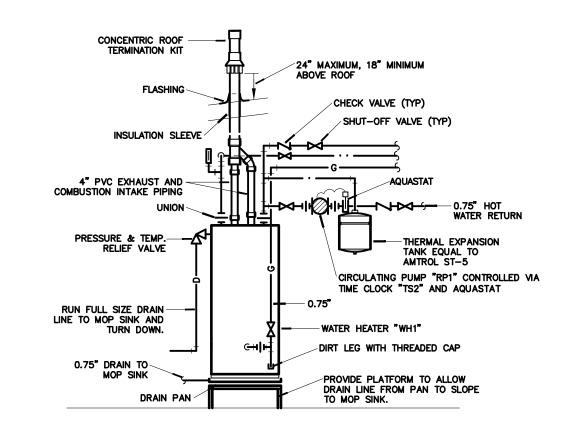
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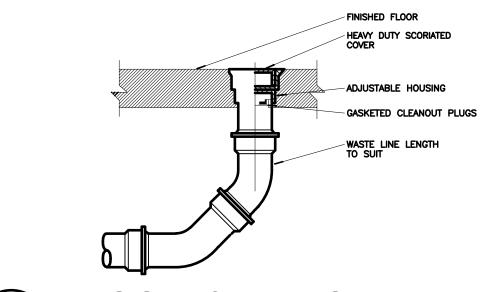
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**M**1

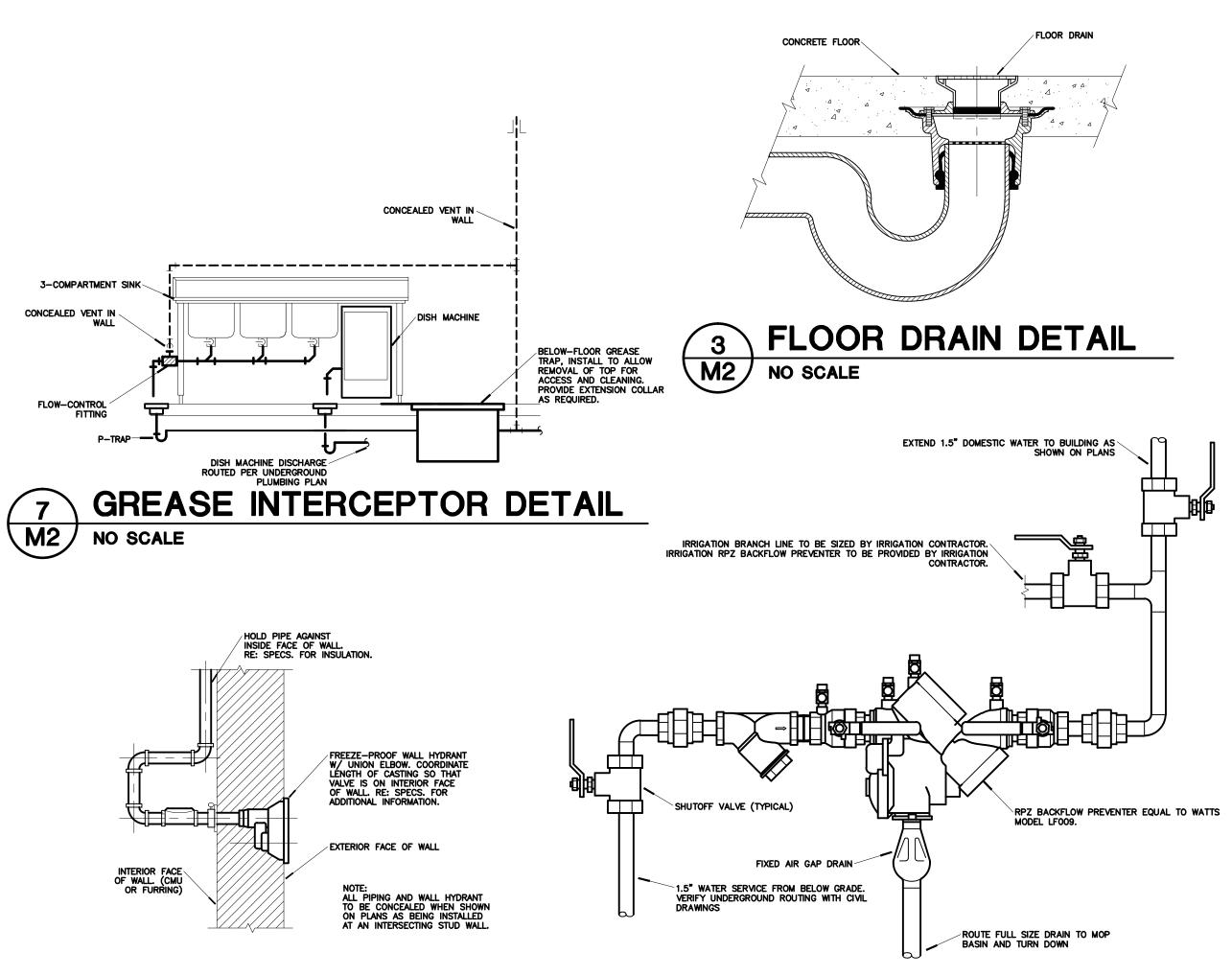
PLUMBING PLANS

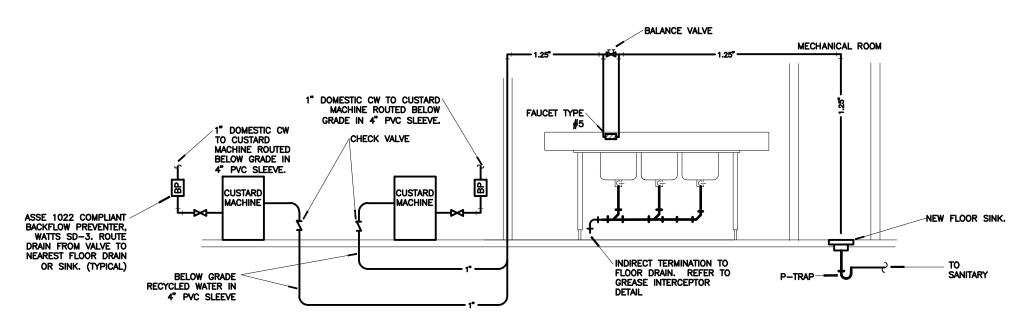


WATER HEATER DETAIL M2 NO SCALE



FLOOR CLEANOUT DETAIL M2 NO SCALE





CUSTARD MACHINE RISER DIAGRAM
NO SCALE

MARK	MANUFACTURER	MODEL NO.	TYPE	GALLON CAP.	GPH <b>@</b> 90°F	INPUT (MBH)	OUTPUT (MBH)	VOLT/PH	ACCESSORIES
WH1	RHEEM	HE119-130	GAS	119	187	130	123.5	120/1	PTRV, IT, CV

PIPING	MAT	ΓEF	<b>RI/</b>	٩L	. 8	SCH	ΙE	DU	LE			
PIF	PING						FIT	TINGS	MAX. V	VORKING	FIELD	TES
SYSTEM	SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	MAT.	TYPE	PRESS (PSI)	TEMP (°F)	PRESS (PSI)	ТІМ
WATER SERVICE	ALL	PVC	40	_	D1785	PVC	PVC	SW	80	50-140	120	1 H
DOMESTIC WATER ABOVE GRADE	ALL	L	_	_	B88	СР	СР	SJ	120	40-180	150	1 +
DOMESTIC WATER BELOW GRADE	ALL	м	_	_	B88	СР	*	*	120	40–180	150	1 H
WASTE & VENT BELOW GRADE	ALL	DWV	40	-	2665	PVC	PVC	DR\SW	10 FT	50-180	10 FT	1 +
WASTE & VENT ABOVE GRADE	ALL	NH	ss	_	A74	СІ	СІ	DR\NH	10 FT	50-180	10 FT	1 F
DISHWASHER WASTE & VENT BELOW GRADE	ALL	NG/BS	ss		A74	CI	СІ	DR\NG	10 FT	50-180	10 FT	1 F
NATURAL GAS ABOVE GRADE	0.5"-2.5"	CW	40	A	A53	CS/BLK	МІ	THRD	1	I	100	1 +
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	М	_	_	B88	CP	CP	DR\S	10FT	40–70	10FT	1 +
CONDENSATE DRAIN ABOVE GRADE	ALL	М	_	_	B88	CP	CP	DR\S	10FT	40–70	10FT	1 +
REFRIGERANT PIPING	ALL	ACR	_	_	B280	СР	CP	S	150	40–140	200	4 H
EXTERIOR SANITARY SEWER	ALL	DWV	PER	ASTM I	D-3034	PVC	PVC	PER ASTM D-3212	10 FT	50-180	10 FT	1 +
ATP - ARMCO TRUSS PIPE BLK - BLACK BS - BELL & SPIGOT CF - CRIMPED FITTING CI - CAST IRON CP - COPPER CS - CARBON STEEL CTD - PIPE LINE SERVICE COMPANY X: HIGH DENSITY POLYETHYLENE CI EXTRUDED OVER PIPE CW - CONTINUOUS WELD DI - DUCTILE IRON DR - DRAINAGE FITTING GLV - GALVANIZED HF - HEAT FUSED LC - LEAD CAULKING		VCP	-   -   -   -   -   -   -   -   -   -	NEOPR NO—HU POLYETPOLYVIII BRAZEI SOLDER SEAMLE STANDA SOLVEN Y—SEA IHREAD ITRIFIE WELDEI	HYLENE NYL CHLC JOINT - JOINT 9 SS STEEI RD STRE NT WELD L DED CLAY	KET DRIDE - SIL 05-5 - NGTH	TIN-AN	ΓΙΜΟΝΥ				

MARK	MAN.	SERIES	SIZE	INLET	DISCH.	GPM	TOTAL HEAD (ft.)	NPSH	TYPE	WORK. CLASS (psi)	HP	RPM	VOLT/PH	CONST.	FLUID PUMPED	FLUID TEMP.
RP1	BG	PL	30	0.5*	0.5*	1.0	10	-	IL	150	1/12	2650	120/1	AB	TW	50°-18

PROJECT INFORMATION Andy's Custard - Conway Arkansas 2375 Dave Ward Drive, AR 72034

**Bid Set** 

March 09, 2015

ARCHITECT **Hufft Projects** 

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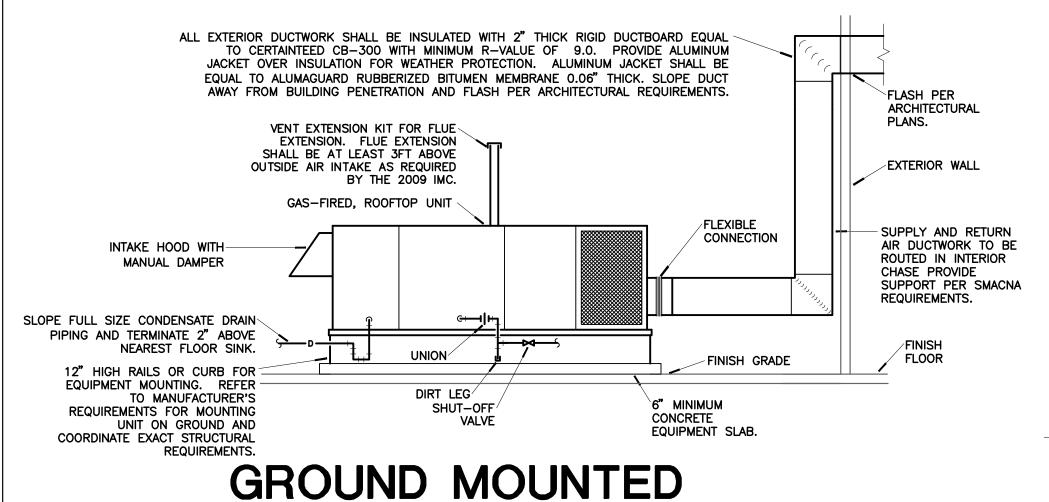
PLUMBING PLANS

**M2** 

WALL HYDRANT DETAIL

WATER SERVICE DETAIL

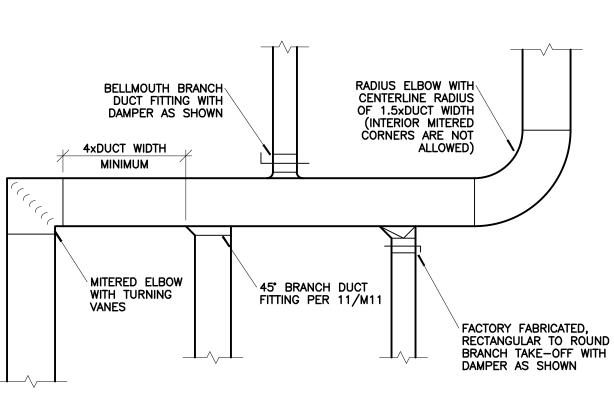
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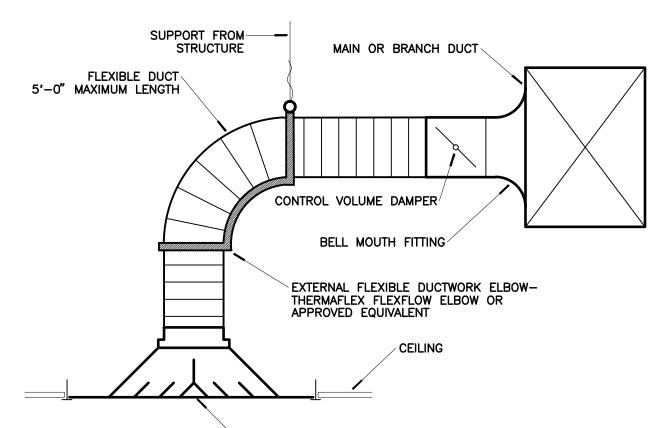


ROOFTOP UNIT DETAIL

NO SCALE

\*E.S.P. - DOES NOT INCLUDE FILTER LOSS





SUPPLY DIFFUSER

DUCTWORK CONSTRUCTION DETAIL NO SCALE

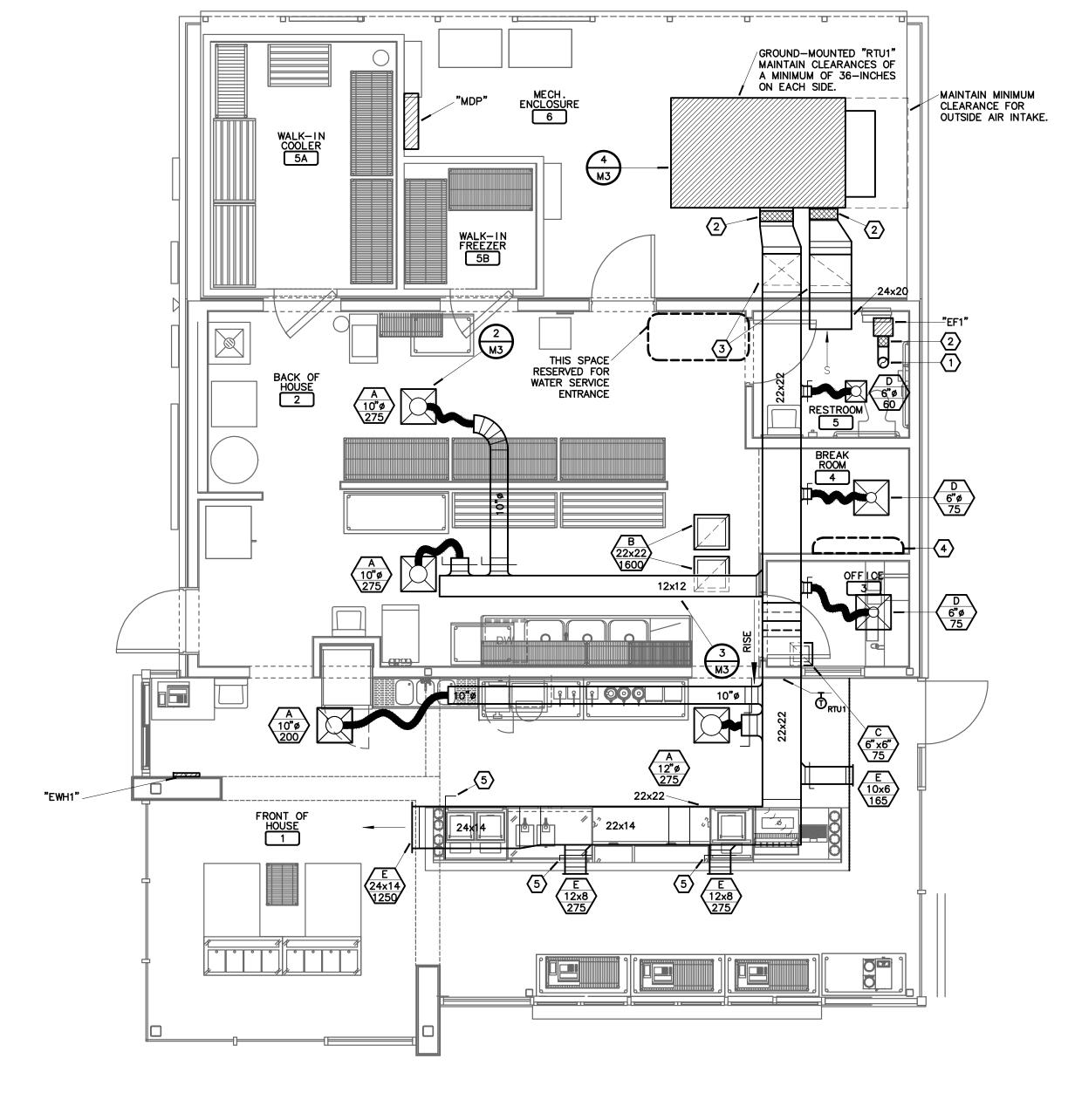
CEILING DIFFUSER DETAIL 、M3 / NO SCALE

#### **EXHAUST FAN SCHEDULE** EST. VOLTS/ ESP. PHASE MANUFACTURER CATALOG NUMBER ACCESSORIES 100 | 0.2" | 120/1 | 55 W | GBD,CG,DM **ABBREVIATIONS:** CG - WHITE ALUMINUM CEILING GRILLE DM - DISCONNECT MEANS GBD - GRAVITY BACKDRAFT DAMPER

MARK	MANUFACTURER	CATALOG #	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)	MAX PRES DRO		
A	TITUS	OMN1 24×24	SUP	WHITE	LAY-IN	N	30	6	12	0.1		
В	TITUS	PAR 24×24	RET	WHITE	LAY-IN	N	30	-	-	0.1		
С	TITUS	PAR 12x12	RET	WHITE	LAY-IN	N	30	-	-	0.1		
D	TITUS	OMNI 12x12	SUP	WHITE	SURF	N	30	6	10	0.1		
E	TITUS	300RS	SUP	WHITE	SURF	N	30	10	25	0.1		
EX RE SU NOTE 1.	ABBREVIATIONS:  EXH — EXHAUST  RET — RETURN  SUP — SUPPLY  NOTES:  1. THROWS ARE BASED ON 50 FEET PER MINUTE VELOCITY.  2. OPPOSED BLADE DAMPERS SHALL BE PROVIDED ON ALL DIFFUSERS REQUIRING VOLUME DAMPERS.											

MARK	MFG.	MODEL #	BLOWER	HEATER	HEATER	ELI	ECTRICA	L	ACCESCODIES	
MAKK	MFG.	MODEL #	CFM MBH		WATTS	VOLT/PH	MCA	моср	ACCESSORIES	
EWH1	QMARK	AWH3150	100	5.1	1500	120/1	15	15	BB,DM,T	

			RC	0	FT	OP	U	NI.	Γ	SCI	HE	DL	JLE			
		ROOFTOP UNIT			cc	OOLING	CAPACIT	Y			NG CAP		-	CTRICA DATA	L	
										NATURAL GAS ELEC.						ACCESSORIES
MARK	MFG.	MODEL #	СҒМ	EST. ESP (in w.g.)	E.A.T. (DB/WB) (DEG. F)	MIN. SHC (MBH)	MIN. THC (MBH)	MIN. EER	AMB. TEMP (DEG. F)	OUTPUT (MBH)	EFF. (%)	KW	VOLTS/ PHASE		MOCP (AMPS)	
RTU1	TRANE	YHC-092	3200	0.6*	76/61	76.3	86.5	12.0	100	84/ 120	80	_	208/3	42	50	OA,T,HD,DD
ABBRE BR CH LA DD OA PE HD T	- CRAN - LOW - DIRE - 0-10 - POWE - HORI - WHIT	METRIC RELIEF DAMI KCASE HEATER AMBIENT CONTROL (I CT DRIVE ECM MOTOO 0% MODULATING OUT RED EXHAUST ZONTAL DISCHARGE/I E RODGERS 1F95-12: F145-1328 REMOTE	0°F) R DOOR AIR RETURN AD 80 7-DAY	ECONOMI APTER PROGRAM	MABLE TH	ERMOSTAT			. BE 300	CFM DUR	ING OCCL	  PIED T	IMES			





# **NOTES:**

- 6" EXHAUST DUCT UP TO ROOF CAP EQUAL TO COOK MODEL PR8 ON MINIMUM 12" TALL ROOF
- TRANSITION TO EQUIPMENT OPENING AND PROVIDE FLEXIBLE CONNECTION.
- 3 SUPPLY AND RETURN DUCTS DOWN TO UNIT.
  DUCTS SHALL PENETRATE EXTERIOR WALL ABOVE LAY-IN CEILING.
- THIS SPACE RESERVED FOR ELECTRIC PANEL INSTALLATION. NO DUCTWORK TO BE ROUTED ABOVE THIS AREA.
- (5) BALANCE DAMPER SHALL BE ACCESSIBLE BY REMOVING CEILING TILE.

#### **GENERAL NOTES:**

- ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL MECHANICAL CODE, AS ADOPTED BY THE CITY OF CONWAY,
- PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- CLOSELY COORDINATE WORK WITH ALL OTHER
- ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION.
- BRACH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK, UNLESS NOTED OTHERWISE
- ALL THERMOSTATS SHALL BE SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, WIRE, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF
- ROUND TAKE-OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH BUCKLEY BELLMOUTH FITTINGS, OR APPROVED EQUAL
- PROVIDE TURNING VANES IN ALL ELBOWS.

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**HVAC PLAN** 

# LIGHTING CONTACTOR SCHEDULE MARK LOAD CONTACTOR INTERLOCK EQUIPMENT SERVED WATTS VOLTS TYPE AMP POLE ENCLOSURE ACCESSORIES CONTROLLED BY CONTROLS LC1 EXTERIOR LIGHTING - 120 NOEH 20 8 NEMA 1 - TS1, PC1 -

ABBREVIATIONS:

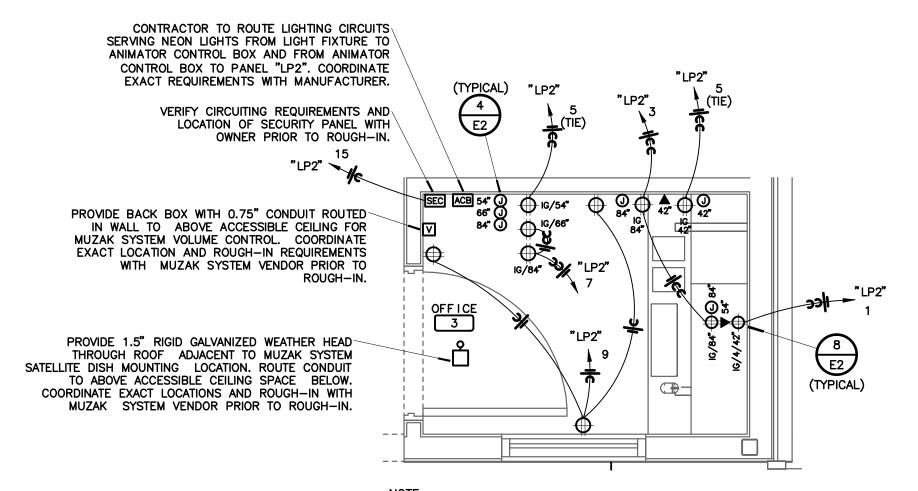
NCEH - NORMALLY CLOSED ELECTRIC HELD

NCMH - NORMALLY CLOSED MECHANICAL HELD

NOEH - NORMALLY OPEN ELECTRIC HELD

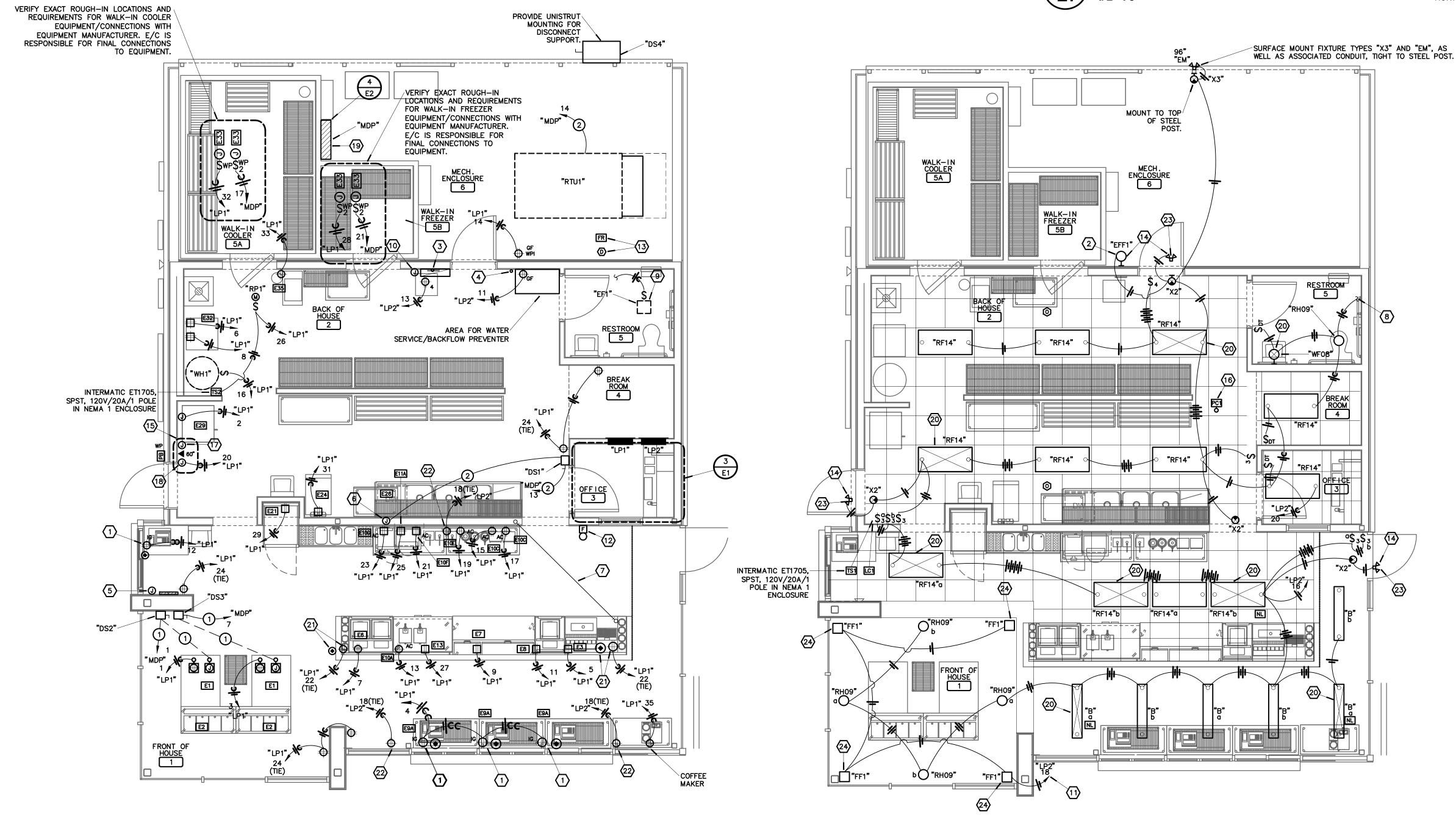
NOMH - NORMALLY OPEN MECHANICAL HELD

EMS - ENERGY MANAGEMENT SYSTEM



NOTE:
CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS AND
WIRING DEVICE LOCATIONS AND ELEVATIONS PRIOR TO ROUGH—IN.

3 ENLARGED OFFICE POWER PLAN
E1 1/2'-1'0'
NORTH







# NOTES:

- RECEPTACLE FOR POS EQUIPMENT. FIELD
  COORDINATE EXACT MOUNTING LOCATION WITH
  MILLWORK AND CASH REGISTER LAYOUT PRIOR TO
  ROUGH-IN.
- FIXTURE TO BE CONTROLLED VIA INTEGRAL PHOTOCELL.
- PROVIDE 2" EMPTY CONDUIT STUBBED UP TIGHT TO WALL, 12" AFF, FOR TELEPHONE SERVICE. COORDINATE EXTERIOR ROUTE TO SERVICE PEDESTAL WITH UTILITY.
- PROVIDE 1" EMPTY CONDUIT WITH PULL CORD STUBBED UP TIGHT TO WALL (12" AFF) FOR IRRIGATION SYSTEM CONTROLLER. COORDINATE BELOW GRADE ROUTING TO NEAREST PLANTING AREA WITH IRRIGATION SYSTEM CONTRACTOR.
- PROVIDE WALL MOUNTED JUNCTION BOX WITH 0.75" EMPTY CONDUIT ROUTED BELOW GRADE TO DRIVE AREA FOR DRIVE—THRU LOOP. ROUTE SECOND 0.75" EMPTY CONDUIT BELOW GRADE TO INTERIOR WALL AND THEN TO ABOVE ACCESSIBLE CEILING SPACE. VERIFY REQUIREMENTS AND JUNCTION BOX LOCATION WITH EQUIPMENT SUPPLIER.
- PROVIDE FLEXIBLE WATER-TIGHT CONNECTION TO UNDER COUNTER DISH MACHINE WITH BOOSTER HEATER.
- PROVIDE 1.5" CONDUIT ROUTED UNDER SLAB FOR DATA CONNECTION TO MAKE-TABLE. VERIFY ROUTING WITH OWNER PRIOR TO ROUGH-IN.
- $\begin{array}{c} \text{(8)} \\ \text{2/E1.} \end{array}$
- (9) EXHAUST FAN SHALL BE CONTROLLED WITH LIGHTING VIA OCCUPANCY SENSOR. REFER TO DRAWING 1/E1 FOR CIRCUIT.
- PROVIDE #6 GROUND FOR CONNECTION TO TELE/DATA EQUIPMENT.
- ROUTE THROUGH LIGHTING CONTACTOR
  "LC1". FIXTURES AND/OR EQUIPMENT SHALL BE
  CONTROLLED BY "PC1" AND "TS1" PER 7/E2.
- REMOTE SOUNDER/LED ANNUNCIATOR NOTIFIER MODEL APA-451 TO SIGNAL "RTU1" DUCT SMOKE DETECTOR ACTIVATION. LABEL COVERPLATE "RTU1 DETECTOR"
- DUCT SMOKE DETECTOR (EQUAL TO NOTIFIER MODEL #DH100LP) SHALL BE INSTALLED IN RETURN AIR DUCTWORK. COORDINATE WITH M/C DUCTWORK SIZE AND ADDITIONAL LENGTH AS REQUIRED FOR DETECTOR INSTALLATION. UPON DETECTION OF SMOKE IN THE RETURN AIR DUCT, ALL UNIT OPERATION SHALL BE TURNED OFF. PROVIDE ALL FAN SHUTDOWN RELAYS AND ACCESSORIES NECESSARY FOR UNIT SHUTDOWN. PROVIDE RTS-451 REMOTE KEYED TEST STATION MOUNTED IN WEATHERPROOF BOX ON COURTYARD WALL.
- LIGHT FIXTURE SHALL BE MOUNTED AT APPROXIMATELY 9'-6" AFF. VERIFY EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY LOCATION AND MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH-IN.
- INTERMATIC PHOTOCELL "PC1" MODEL K4321C MOUNTED ON ROOF IN WEATHERPROOF BOX. PHOTOCELL TO CONTROL RELAYS, WITH "TS1", IN LIGHTING CONTACTOR "LC1" AS SHOWN ON 7/E2. PHOTOCELL TO BE MOUNTED TO ENSURE CLEAR VIEW OF NORTHERN SKY.
- PROVIDE ROUGH—IN AND FINAL CONNECTIONS TO SECURITY SYSTEM KEYPAD AT 60" AFF. EXTEND CONDUIT IN WALL UP TO ABOVE CEILING.
- (18) PROVIDE SERVICE DOOR CHIME. (2 TONES)
- "MDP".

  TIXTURE SHALL BE PROVIDED WITH INTEGRAL
  1400 LUMEN EMERGENCY BALLAST. BALLAST

SHALL BE CAPABLE OF OPERATING LAMP FOR

PROVIDE RECEPTACLE AND DATA CONNECTIONS FOR MAKE-TABLE MONITOR.

MINIMUM OF 90 MINUTES.

- SURFACE MOUNT RECEPTACLE AND ASSOCIATED CONDUIT ON MULLION AT APPROXIMATELY 8-FT ABOVE FINISH FLOOR. RECEPTACLE SHALL SERVE OWNER PROVIDED NEON SIGNAGE. PAINT ALL EXPOSED CONDUIT AND RECEPTACLE BACKBOX COLOR TO MATCH MULLION.
- REMOTE EMERGENCY HEAD PROVIDED WITH FIXTURE TYPE "X2".
- PROVIDE FLOOD LIGHT TO FEATURE SUSPENDED CONE. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

# BRANCH CIRCUIT & FEEDER SCHEDULE.

- 1 3-#3 AND 1-#8 GROUND IN 1.25" CONDUIT.
- ② 3-#8 AND 1-#10 GROUND IN 0.75" CONDUIT

#### GENERAL NOTES:

- PROVIDE FINAL ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT.
- 2. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH CURRENT NEC REQUIREMENTS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. PLANS ARE DIAGRAMMATIC IN NATURE AND NOT TO BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR FINISH DETAILS, ELEVATIONS, AND EXACT MOUNTING LOCATIONS OF LIGHT
- FIXTURES WITH THE "NL" (NIGHT LIGHT)
  SYMBOL SHALL NOT BE CONNECTED TO THE
  SWITCH LEG AND SHALL REMAIN ALWAYS-ON.

+

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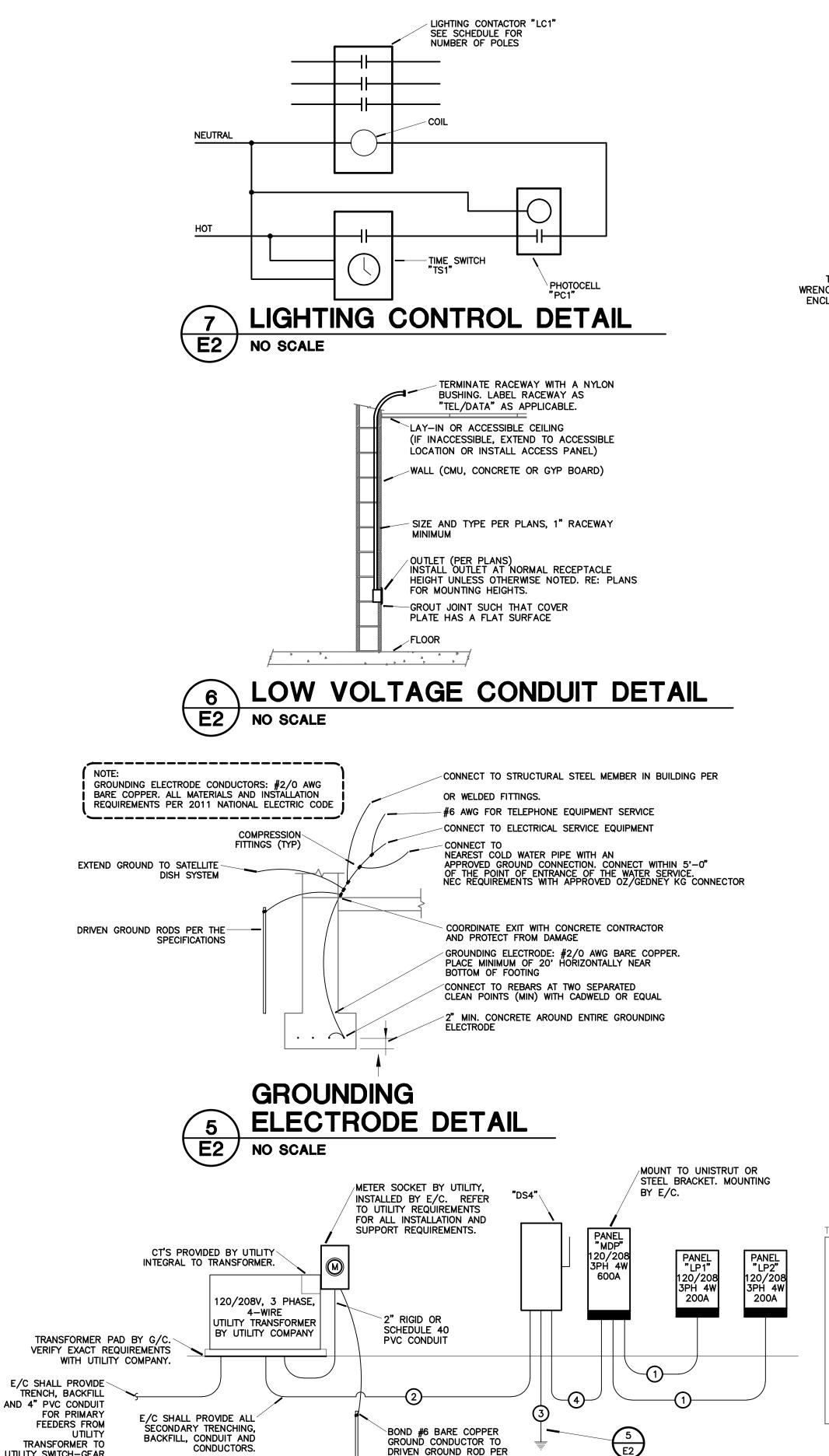
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SHEET ELECTRIC PLANS

**E**1



PSO-AEP UTILITY

**ELECTRICAL RISER DIAGRAM** 

REQUIREMENTS.

TRANSFORMER TO

LOCATED AT

PROPERTY LINE COORDINATE EXACT

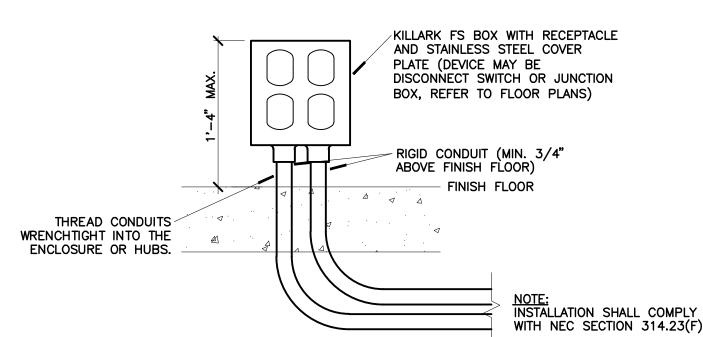
LOCATION WITH

CORPORATION.

E2 /

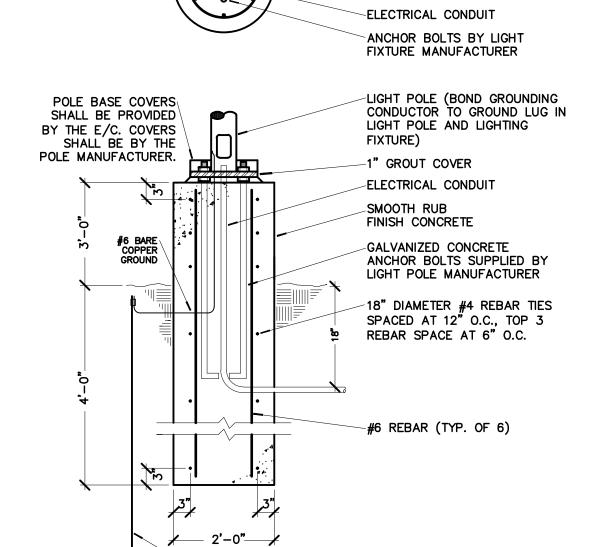
NO SCALE

UTILITY SWITCH-GEAR



# **KITCHEN** STUB-UP DETAIL E2 NO SCALE

0 0~0



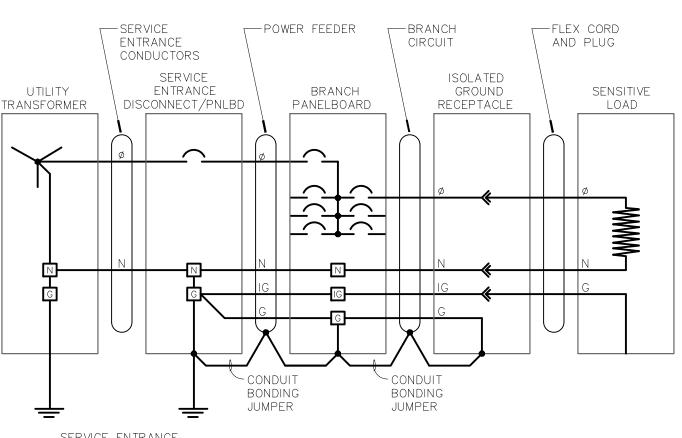
#6 REBAR (TYP. OF 6)

-#4 REBAR TIES AT 12" O.C.

TOP 3 REBAR TIES AT 6"

# LIGHT POLE BASE DETAIL E2 NO SCALE

3/4"x8' COPPER GROUND ROD



ISOLATED GROUND DETAIL NO SCALE

GROUNDING ELECTRODES

#### DISCONNECT SWITCH SCHEDULE FUSE **ENCLOSURE** NEMA TYPE EQUIPMENT SERVED | VOLTS | DUTY | AMP | POLE | AMP | TYPE DS1 DISH MACHINE 50 FRN-R DS2 CUSTARD MACHINE GD | 100 | NEMA 1 DS3 CUSTARD MACHINE GD 100 100 FRN-R NEMA 1 DS4 ELECTRICAL UTILITY SERVICE NEMA 3R SN,SR,GK ABBREVIATIONS: GD — GENERAL DUTY SR - SERVICE ENTRANCE RATED GK - GROUNDING LUG KIT HD — HEAVY DUTY SN - SOLID NEUTRAL

E	LECTRICAL	<b>EQI</b>	JIP.			IN	EC	CTIONS
ITEM	DESCRIPTION	AMPS	VOLTS	PH	CONN	MTG	AFF	NOTES
E1	CUSTARD MACHINE	80	208	3	JB	F	TBD	HWC
E2	DIPPING CABINET	7.8	120	1	DR	F	TBD	
E3	SODA DISPENSING SYSTEM	15	120	1	SR	W	TBD	
E6	WORKTOP FREEZER	1.6	120	1	SR	W	TBD	NEMA 5-15R/P
E7	FOOD PREP TABLE	8.6	120	1	SR	W	TBD	NEMA 5-15R/P
E8	WORKTOP FREEZER	1.6	120	1	SR	W	TBD	NEMA 5-15R/P
E10A	FUDGE SYRUP WARMER	4.2	120	1	DR	W	TBD	NEMA 5-15R/P
E10C	BLENDER	2.1	120	1	DR	W	TBD	
E10E	FUDGE SYRUP WARMER	4.2	120	1	DR	W	TBD	NEMA 5-15R/P
E10F	DRINK MIXER	11.4	120	1	SR	W	TBD	NEMA 5-15R/P
E10G	MILK DISPENSER	1.6	120	1	SR	W	TBD	
E11A	MICROWAVE	13.4	120	1	SR	W	TBD	NEMA 5-20R/P
E13	WORKTOP FREEZER	7.0	120	1	SR	W	TBD	NEMA 5-15R/P
E21	PASS-THRU FREEZER	7.0	120	1	SR	W	TBD	NEMA 5-15R/P
E24	ICE MACHINE	9.7	120	1	SR	W	TBD	
E26	DISH MACHINE	37.7	120/208	1	JB	W	TBD	HWC
E29	OVEN	27	208	1	SR	W	TBD	
E32	WASHER	15	120	1	SR	W	TBD	
	DRYER	15	120	1	SR	W	TBD	
E33	WALK-IN COOLER LIGHTING	1	120	1	JB	С	TBD	HWC
	WALK-IN COOLER EVAPORATOR	4.2	120	1	JB	С	TBD	HWC
	WALK-IN COOLER CONDENSER	7.2	208	1	JB	W	TBD	HWC
E33	WALK-IN FREEZER LIGHTING	1	120	1	JB	С	TBD	HWC
	WALK-IN FREEZER EVAPORATOR	4.2	120	1	JB	С	TBD	HWC
	WALK-IN FREEZER CONDENSER	7.2	208	1	JB	W	TBD	HWC

DR = DUPLEX RECEPTACLE, SR = SIMPLEX RECEPTACLE, JB = J-BOX HWC = HARD WIRED CONNECTION COMPLETE BY CONTRACTOR W = WALL, C = CEILING, F = FLOOR, TBD = TO BE DETERMINED ON SITE BY OWNER AND EQUIPMENT SUPPLIER

1) VERIFY ALL RECEPTACLES TYPES FOR CORD AND PLUG EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

2) VERIFY WALK-IN COOLER/FREEZER SPECIFICATIONS WITH MANUFACTURER'S DRAWINGS PRIOR TO ROUGH-IN.

3) ALL DIMENSIONS ARE TO FINISHED FLOOR OR WALL.

ABBREVIATIONS:

4) VERIFY ALL EQUIPMENT LOCATION, ELECTRICAL REQUIREMENTS, AND ROUGH-IN ELEVATIONS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

5) E/C IS RESPONSIBLE FOR THE FINAL CONNECTION(S) TO ALL EQUIPMENT.

# NOTES:

# BRANCH CIRCUIT & FEEDER SCHEDULE:

(1) 4 - #3/0 AND 1 - #6 GROUND IN 2" CONDUIT.

(2) 4 - 350 MCM IN EACH OF TWO 3" CONDUITS, COORDINATE WEATHERHEAD REQUIREMENTS WITH

(3) #2/0 COPPER GROUNDING ELECTRODE.

(4) 4 - 350 MCM AND 1 - #1 GROUND IN EACH OF TWO 3" CONDUITS,

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		LIGHTING FIX	XT	URE	S	CHEDULE			
MARK	МЕО	CATALOG #	MTG.	FINICH		LAMPS		EQUIVALENT	NOTES
MARK	MFG.	CATALOG #	MIG.	FINISH	TYPE	CODE	QTY	EQUIVALENT	NOTES
В	COLUMBIA	CN4-128-EPU-PAF	SURF	WHITE	FL	T5HO,28W,5000K,CRI>80,ALTO	1	-	
С	WILLIAMS	76-4-232-EB2-UNV	SURF	WHITE	FL	T8,32W,5000K,CRI>80,ALTO	2	Li,Co	
WF08	PRUDENT I AL	P1220-2T5-02-WA-YGW-120-SUR-REM	SURF	WHITE	FL	T5HO,24W,5000K,CRI>80,ALTO	2	Eu,Lr	
RH09	MAXILUME	HH6-LED-2000L-120-50K-HH6-6501	REC	WHITE	LED	2000 LUMENS,50K,85CRI	Cr, KV		
RH12	ELITE	RL633-RL660-40K-WH	REC	WHITE	LED	INCLUDED W/ FIXTURE	-	Ju,KV	
RF14	ORACLE	24-OT-332T8-1-HBF-A12	REC	WHITE	FL	T8,32W,5000K,CRI>80,ALTO	3	Li,Co	
FF1	DAY-BRITE	FSS-40W-L-U-MHP	SURF	-	LED	2300 LUMENS,4100K	-	-	
ARM1	DAY-BRITE	BIS-050-M-XX-NAT-D08 WITH BLGN2 GOOSENECK MOUNT	SURF	BY ARCH.	МН	50W, COATED	1	-	
EFF1	DAY-BRITE	FSS-40W-L-U-WHP-PEC-MT	SURF	BY ARCH.	LED	4700K	-	-	
х	EVENL I TE	TLECOM-R-U-W (EXIT/EMERG COMBO)	SURF	WHITE	LED	INCL W/ FIXTURE	-	Cp,Wi	
X2	EVENL I TE	TLECOM-R-U-W-PRWLED2 (EXIT/EMERG COMBO WITH REMOTE)	SURF	RED/WHITE	LED	INCL W/ FIXTURE	-	Cp,Wi	
Х3	EVENL I TE	TWL-EM-R-1U-W	SURF	RED/WHITE	LED	INCL W/ FIXTURE	-	Cp,Wi	
ЕМ	EVENL I TE	WLEM-BZ-CT (COLD TEMP -20 DEG C)	SURF	BRONZE	LED	500 LUMEN MINIMUM	-	Cp,Wi	
S1	GARDCO	ECF-21S-55LA-3253-CW-UNV (ON 12' SQUARE STEEL POLE)	POLE	BY ARCH.	LED	55W,5700K,6435 LUMENS	-	Sp,KIM,MG	
S2	GARDCO	ECF-31S-75LA-4853-NW-UNV (ON 12' SQUARE STEEL POLE)	POLE	BY ARCH.	LED	75W,5700K,8775 LUMENS	-	Sp,KIM,MG	
S3	GARDCO	ECF-31S-75LA-4853-NW-UNV (ON 15' SQUARE STEEL POLE)	POLE	BY ARCH.	LED	75W,5700K,8775 LUMENS	-	Sp,KIM,MG	
S4	GARDCO	ECF-41S-100LA-6453-NW-UNV (ON 12' SQUARE STEEL POLE)	POLE	BY ARCH.	LED	100W,5700K,11700 LUMENS	-	Sp,KIM,MG	
Ab - AL - AP - AAL - Ch - CC - CC - CC - CD - CD - CD - CD	REVIATIONS:  - ABOLITE  - ALKCO  - APPLETON  - ARCH AREA L  - BASELIGHT  - CHLORIDE  - CELESTIAL  - COAST LIGHT  - COLUMBIA  - COMPASS  - CREE  - CROUSE—HIND  - DEVINE  - DUAL—LITE  - DUAL—LITE  - EDISON PRIC  - EMERGI—LITE  - EUREKA  - FAIL—SAFE	Hu	Pr - PS - Ro - Sf - SP - St - St - TMS - Ti -	- PROGRESS - PRESCOLITE - PASS & SEYMOUF - ROBERTS - STAFF - SPAULDING - SPI - STERNER - SURE-LITES - SYLVAN - TMS LIGHTING - TIVOLI - WILLIAMS	REC SURF GRD TRK CABL MFG QTY FLR INC HID UNIV CFL	- GROUND - TRACK - CABLE - MANUFACTURER - QUANTITY - FLUORESCENT GENERAL NO - INCANDESCENT * VERIFY AL	OTES: L LIGH	TING FIXTURES WIT INATOR RON CHAM	

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**REVISION SCHEDULE** 

SHEET ELECTRIC SCHEDULES, DETAILS

**E2** 

OC	CUPA	NCY SE	NSO	R SCHEDULE							
MOUNTING	NUMBER IDENTIFIER	MANUFACTURER	MODEL	DESCRIPTION							
WALL SWITCH	\$ DT	WATTSTOPPER	DW-100	DUAL TECH - 400 SF COVERAGE							
CEILING	<b>(</b>	WATTSTOPPER	DT-300	DUAL TECH - 1000 SF COVERAGE							
	NOTE: ALL WALL-MOUNTED DEVICES AND COVERPLATES SHALL BE COLORED TO MATCH OTHER WIRING DEVICES. VERIFY WITH ARCHITECT/OWNER.										

	CIRC	UIT B	RE	AKE	ER P	ANI	ELBO	DAF	RD S	CHE	EDULE		
	PANEL DESIGNATION:	ı	MANUFAC	TURER:	SQUARE	D		VOLTAG	E: 120/2	208V, 3 F	PHASE, 4 WIRE MIN AIC= 22K A	MPS	
"LP2"			TYPE: MOUNTING:			NQOD SURFACE POLES: 42		MAINS: 225 AMP MAIN LUGS ONLY			DIMENSIONS: 20" WIDE, 6.5" DEEP		
CKT NO	LOAD DESCRIPTION	CIRCUIT BREAKER	TYPE	LOAD (VA)	A Pi	HASE LOA	ADS C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO	
1	R - MANAGER'S OFFICE	20		1500	1665			165	20		L - MONUMENT SIGN	2	
3	R - MANAGER'S OFFICE	20		360		1065		705	20		L - EXTERIOR	4	
5	R - MANAGER'S OFFICE	20		360			360	1200	20		L — MONUMENT SIGN		
7	R - MANAGER'S OFFICE	20		360	360			0	20		SPARE	8	
9	R - MANAGER'S OFFICE	20		540		1740		1200	20		L - EXTERIOR SIGNAGE	10	
11	R - IRRIGATION SYSTEM CONTROL ER	L- 20		1200			1700	500	20		L - EXTERIOR POLE LIGHTS		
13	R - TELE/DATA	20		1200	2715			1515	20		L - EXTERIOR CANOPY	14	
15	SECURITY SYSTEM	20		1200		2515		1315	20		L - FRONT OF HOUSE	16	
17	L - EXTERIOR NEON	20		400			560	160	20		L - INTERIOR FEATURE	18	
19	L - EXTERIOR NEON	20		400	1180			780	20		L — BACK OF HOUSE		
21	L - EXTERIOR NEON	20		400		400		0	20		SPARE	22	
23	L - EXTERIOR NEON	20		400			1600	1200	20		L - FLAG POLE LIGHTING	24	
25	L - EXTERIOR NEON	20		400	400			0	20		SPARE	26	
27	L - EXTERIOR NEON	20		400		400		0	20		SPARE	28	
29	SPARE	20		0			0	0	20		SPARE	30	
31	SPARE	20		0	0			0	20		SPARE	32	
33	SPARE	20		0		0		0	20		SPARE	34	
35	SPARE	20		0			0	0	20		SPARE	36	
37	SPARE	20		0	0			0	20		SPARE	38	
39	SPARE	20		0		0		0	20		SPARE	40	
41	SPARE	20		0			0	0	20		SPARE	42	
					0							<b>'</b>	
						0							
							0						
<u>ABB</u> I	REVIATIONS: TOTAL	CONNECTED	PHASE	LOADS	6320	6120	5420	VA				=	
	- ARC FAULT *	COOLING DIVI	ERSIFIED	LOAD	6320	6120	5420	VA	NOTES/ACCESSORIES:  * DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED				
GFI		HEATING DIVI	ATING DIVERSIFIED LOAD PHASE LOADS FUTURE FACTOR			6120	5420	VA	* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.				
HLO	CIRCUIT INTERRUPTER  - HANDLE LOCK 'OFF'	PHASE I				51	45	AMPS					
		FUTURE (				1.25							
MINIMUM PANEL/FEEDER SIZE						66		AMPS					

	C	CIRCU	IT B	RE	AKE	ER P	ANI	ELBO	OAF	RD S	SCH	EDULE		
PANEL DESIGNATION: "LP1"			MANUFACTURER:						VOLTAGE: 120/208V, 3			PHASE, 4 WIRE MIN AIC= 22K AMPS		
			TYPE: MOUNTING:		NQOD SURFACE POLES: 42		MAINS: 225 AMP  MAIN LUGS ONL		DIMENSIONS: 20" WIDE, 6.5" DEEP					
CKT NO	LOAD DES	CRIPTION	CIRCUIT BREAKER	TYPE	LOAD (VA)		HASE LOA	_	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION		CK NO
1	E2 - DIPPING CAE	BINET	20		940	3790			2850	20		E29 - OVEN		2
3	E2 - DIPPING CAE	BINET	20		940		3790		2850	2		8		4
5	E3 - SODA DISPENSIN	G SYSTEM	20		1800			3600	1800	20		E32 -	WASHER	6
7	E6 - WORKTOP FRE	EZER	20		195	295			100	20		E32 -	DRYER	8
9	E7 - FOOD PREP T	ABLE	20		1040		1790		750	20		R -	POS	10
11	E8 - WORKTOP FRE	EZER	20		195			445	250	20		R - DRIVE	THRU POS	12
13	E10A - FUDGE SYRUP	WARMERS	20		1010	1190			180	20		R – EX	TERIOR	14
15	E10C - BLENDE	:R	20		300		800		500	20		WATER HEATER "WH1"		16
17	E10C - BLENDE	:R	20		300			300	0	20		SPA	ARE	18
19	E10E - FUDGE SYRUP	WARMER	20		505	605			100	20		DOOR CHIME		20
21	E10F - DRINK MI	XER	20		1370		1870		500	20		R - MONITORS		22
23	E10G - MILK DISP	ENSER	20		200			1460	1260	20		R - CONVENIENCE		24
25	E11A - MICROWA	VE	20		1610	2110			500	20		CIRCULATING PUMP "RP1"		26
27	E13 - WORKTOP FR	EEZER	20		840		1460		620	20		WALK-IN FREEZER EVAP		28
29	E21 - PASS-THRU F	REEZER	20		840			1460	620	2		•	,	30
31	E24 - ICE MACH	INE	20		1165	1465			300	20		WALK-IN COOLER EVAP		32
33	E35 - REMOTE BEVERAGE	DISPENSER	20		1560		1560		0	20		SPA	ARE	34
35	COFFEE MAKER	?	20		1320			2820	1500	20		ELECTRIC WALL	HEATER - "EWH1"	36
37	SPARE		20		0	0			0	20		SPA	ARE	38
39	SPARE		20		0		0		0	20		SPA	ARE	40
41	SPARE		20		0			0	0 20	20		SPARE		42
						0								
							0							
								0						
ABB	REVIATIONS:	TOTAL CON	NNECTED PHASE LOADS DLING DIVERSIFIED LOAD			9455	11270	10085	VA					
AF	- ARC FAULT CIRCUIT INTERRUPTER	* COO				7881	9393	8405	VA NOTES/ACCESSORIES:  * DIVERSIFIED LOADS INDIC			IAVE BEEN CALCUL	ATED	
GFI	<ul><li>GROUND FAULT</li></ul>	* HEA	ATING DIVERSIFIED LOAD		7881	9393	8405	VA	IN ACCORDANGE WITH THE MATICALA					
HLO	CIRCUIT INTERRUPTER  - HANDLE LOCK 'OFF'		PHASE LOADS			66	79	70	AMPS					
				FUTURE FACTOR			1.25							
		MINIMU	M PANEL/	/FEEDEF	SIZE		99		AMPS					

WID1			TURER:	SQUARE D		VOLTAG	VOLTAGE: 120/208V, 3 PHASE, 4 WIRE MIN AIC= 35k						
					I-LINE NEMA 3R		MAINS:	600 AM		DIMENSIONS:			
CKT LOAD DECODING			CIRCUIT TYPE			SURFACE POLE PHASE LOA		NDC	LOAD	MAIN LU	TYPE		
NO	I DAD DESCRIPTION		BREAKER	'''	(VA)	Α	В	С	(VA)	BREAKER	1112	LOAD DESCRIPTION	Ck No
1	CUSTARD MACHI	NE	100		9607	19062			9455	200		PANEL "LP1"	2
3	n		3		9607		20877		11270	3		99	4
5	n		3		9607			18512	8905	3		99	6
7	CUSTARD MACHI	NE	100		9607	15927			6320	200		PANEL "LP2"	8
9	n		3		9607		15727		6120	3		99	10
11	"		3		9607			15047	5420	3		29	12
13	E26 - DISH WAS	HER	50		3920	9790			3390	50		ROOFTOP UNIT "RTU1"	14
15	n		2		3920		9790		3390	3		99	16
17	WALK-IN COOLER CON	NDENSER	20		750			6620	3390	3		71	18
19	n		2		750	750						SPACE PROVISION	2
21	WALK-IN FREEZER CO	NDENSER	20		750		750					SPACE PROVISION	2:
23	79		2		750			750				SPACE PROVISION	2
25	SPACE PROVISI	ON				0						SPACE PROVISION	20
27	SPACE PROVISI	ON					0					SPACE PROVISION	28
29	SPACE PROVISI	ON						0				SPACE PROVISION	3
31						0							3
33							0						3
35								0					3
37						0							3
39							0						4
41								0	<u>'</u>				4:
-						0							
							0						
								0	•				
ABBREVIATIONS: TOTAL CONNECTED PHASE LO		LOADS	43049 44664		38249 VA	VA	4						
	- ARC FAULT	* COO	OOLING DIVERSIFIED LOAD			43049	44664		VA	NOTES/ACCESSORIES:			
CIRCUIT INTERRUPTER  GFI - GROUND FAULT * HE/		* HEA	HEATING DIVERSIFIED LOAD			43049	44664	38249	-	* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.			
	CIRCUIT INTERRUPTER  - HANDLE LOCK 'OFF'		PHASE LOADS			359	372	321	AMPS		F FAIII	T CURRENT.	
			FUTURE F	ACTOR			1.25		1	CALCULATED 6-18-2014			
		ı Minimi il	M PANFI /	A PANEL/FEEDER SIZE			465		AMPS	27,566 AMPS			



PROJECT INFORMATION

Andy's Custard - Conway

Arkansas

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ISSUE Bid Set

March 09, 2015

ARCHITECT

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Malone, Finkle, Eckhardt & Collins, Inc.

3333 E. Battlefield Road, Suite 1000
Springfield, MO 65804
Attn: Trevor Karstens
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REVISION SCHEDULE

NO. DATE

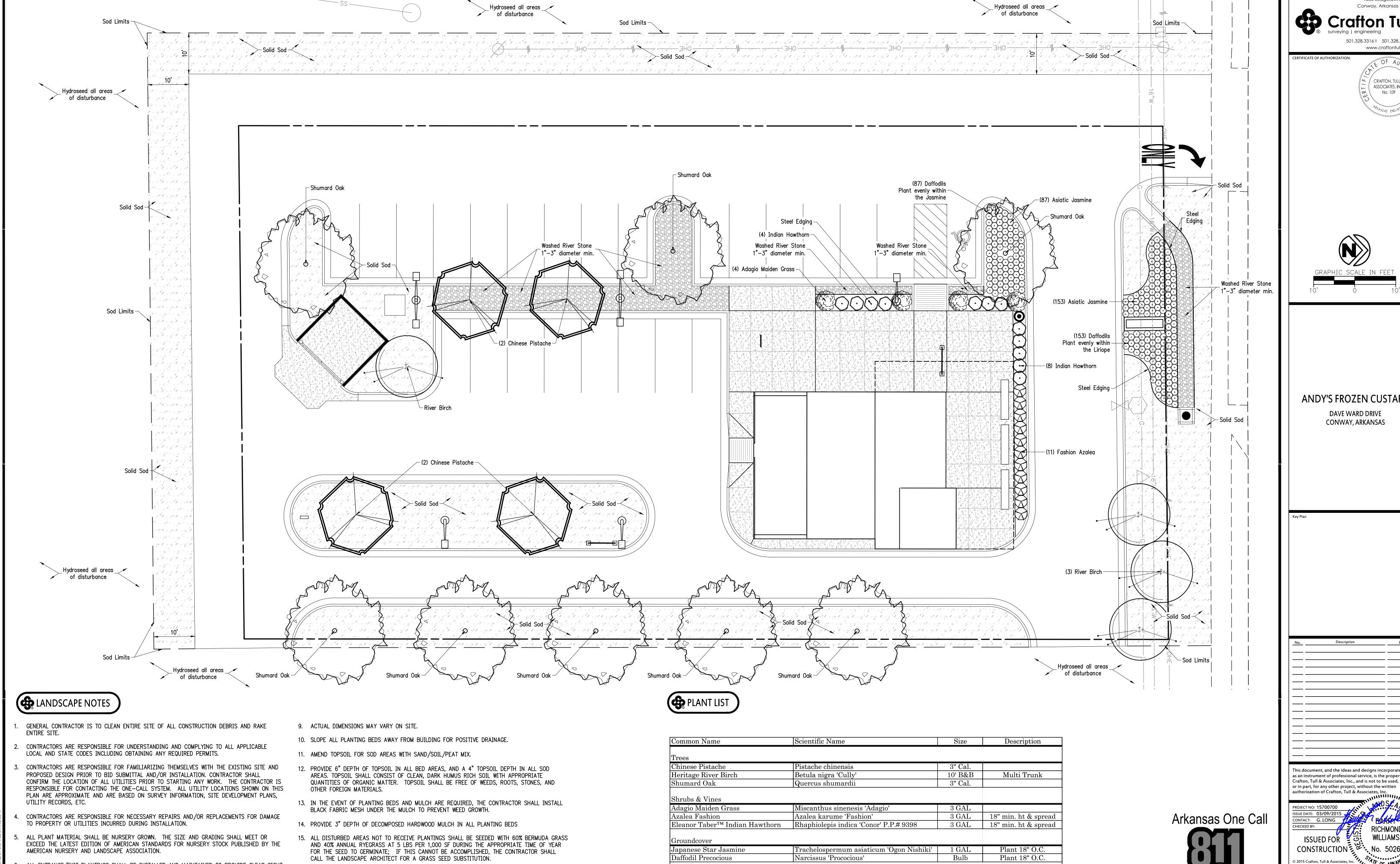
NO. DATE ISSUE

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Drawn By: TREVOR KARSTENS Project Number: 11136
Contact Number: 913-322-1400 AR COA Number: 1163

SHEET ELECTRIC SCHEDULES

**E**3



Celebration Bermudagrass

Cynodon dactylon 'Celebration'

See plan for location

and variety information

501.328.3316† 501.328.3325 f www.craftontull.com CRAFTON, TULL 8 ASSOCIATES, INC. No. 109 ANDY'S FROZEN CUSTARD DAVE WARD DRIVE CONWAY, ARKANSAS This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of Crafton, Tull & Associates, Inc., and is not to be used, in whole

1000 Ledgelawn Drive Conway, Arkansas 72032

LANDSCAPE PLAN Know what's **below**. Call before you dig.

| L-101

RICHMOND

WILLIAMS

No. 5026

LANDSCAPE ORDINANCE OR UNTIL PROJECT IS TURNED OVER AND ACCEPTED BY OWNER. NO CHANGES TO THE PLANT SCHEDULE ARE ALLOWED WITHOUT APPROVAL OF THE OWNER, LANDSCAPE ARCHITECT AND CITY. SUBSTITUTED PLANTS SHALL MEET THE SAME CRITERIA

REGARDING TYPE, SIZE AND FUNCTION AS THOSE PLANTS SHOWN ON THE PLAN.

DISTANCE FROM THE STREETS AND THE ENTRANCE/EXIT LOCATIONS.

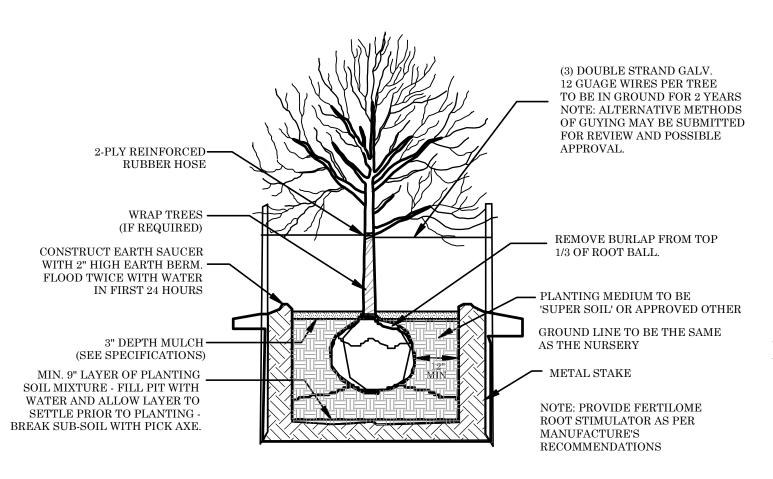
ALL ENTRANCE/EXIT PLANTINGS SHALL BE INSTALLED AND MAINTAINED TO PROVIDE CLEAR SIGHT

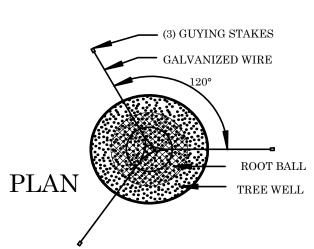
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REQUIRED SHRUBS AND TREES PER CITY

16. PRUNE ALL PLANT MATERIAL NEAR SIDEWALKS TO ACCOMMODATE PEDESTRIAN MOVEMENT.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF ALL LANDSCAPED AREAS UNTIL THE LATER OF; (i) THIRTY (30) DAYS FOLLOWING THE PLANTING OF THE GRASS AND SHRUBS, OR (ii) THE DATE THAT THE LANDSCAPE ARCHITECT HAS PROVIDED THE SCHOOL WITH A LETTER OF COMPLETION AND ACCEPTANCE.

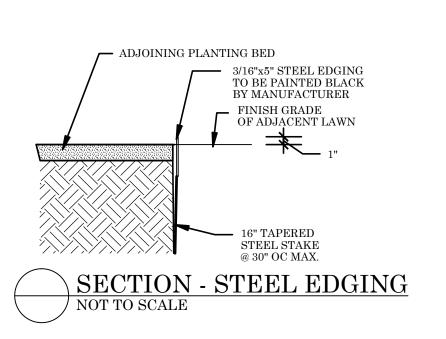
18. A ONE-YEAR REPLACEMENT WARRANTY IS REQUIRED FOR ALL PLANT MATERIAL.

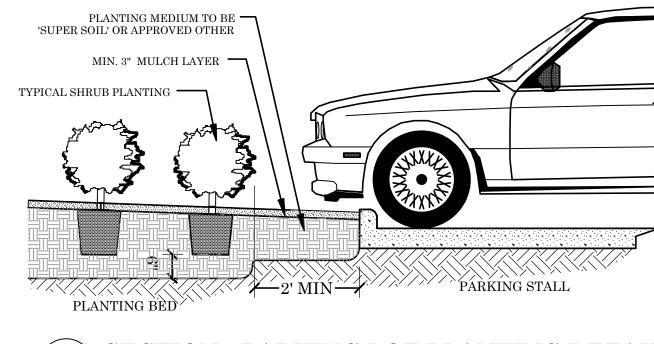




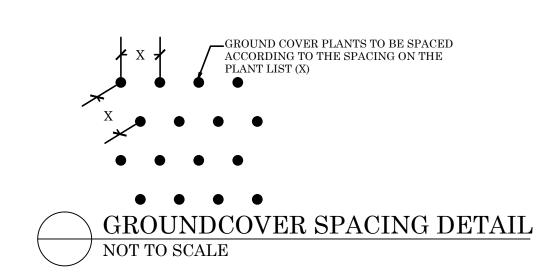
SECTION - TREE PLANTING DETAIL

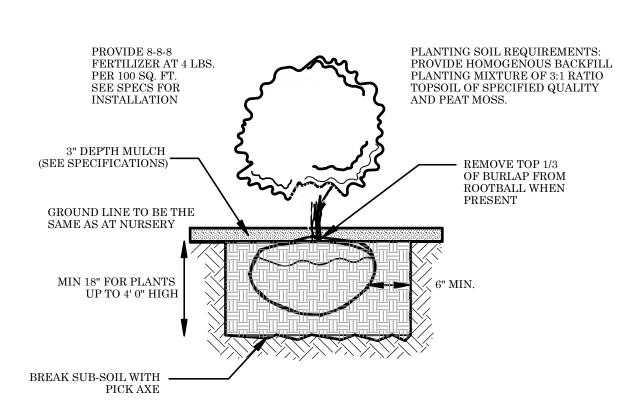
NOT TO SCALE





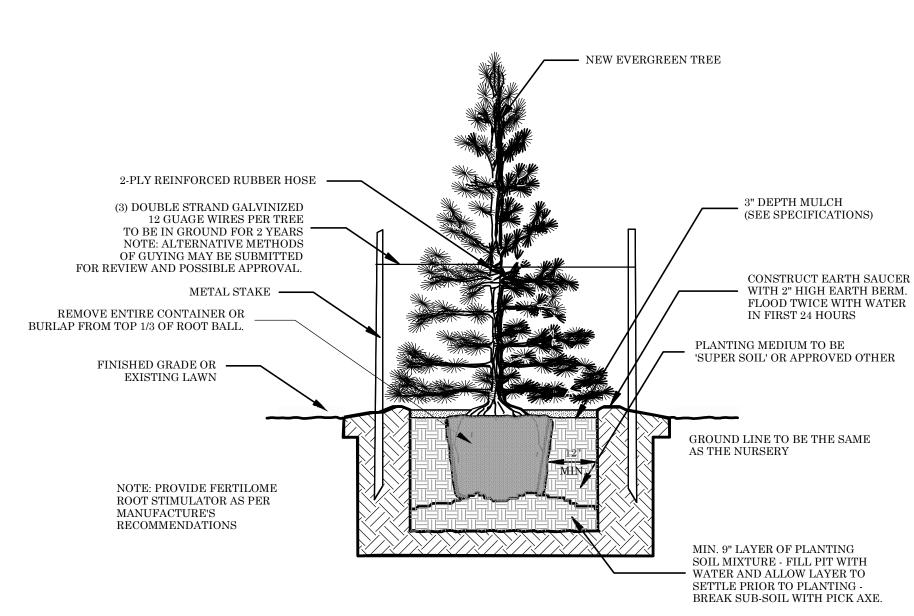
SECTION - PARKING LOT PLANTING DETAIL
NOT TO SCALE





SECTION - SHRUB PLANTING DETAIL

NOT TO SCALE



SECTION - EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

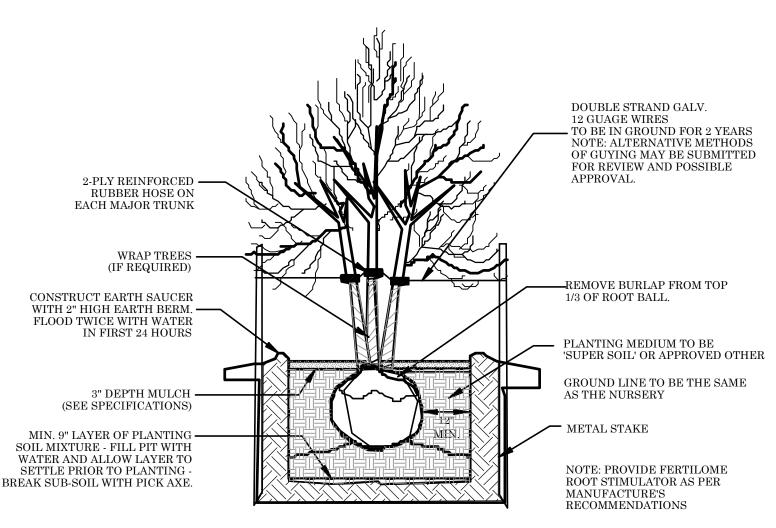


- 1. GENERAL CONTRACTOR IS TO CLEAN ENTIRE SITE OF ALL CONSTRUCTION DEBRIS AND RAKE ENTIRE SITE.
- 2. CONTRACTORS ARE RESPONSIBLE FOR UNDERSTANDING AND COMPLYING TO ALL APPLICABLE LOCAL AND STATE CODES INCLUDING OBTAINING ANY REQUIRED PERMITS.
- 3. CONTRACTORS ARE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE EXISTING SITE AND PROPOSED DESIGN PRIOR TO BID SUBMITTAL AND/OR INSTALLATION. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ONE—CALL SYSTEM. ALL UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON SURVEY INFORMATION, SITE DEVELOPMENT PLANS, UTILITY RECORDS, ETC.
- 4. CONTRACTORS ARE RESPONSIBLE FOR NECESSARY REPAIRS AND/OR REPLACEMENTS FOR DAMAGE TO PROPERTY OR UTILITIES INCURRED DURING INSTALLATION.
- 5. ALL PLANT MATERIAL SHALL BE NURSERY GROWN. THE SIZE AND GRADING SHALL MEET OR EXCEED THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- 6. ALL ENTRANCE/EXIT PLANTINGS SHALL BE INSTALLED AND MAINTAINED TO PROVIDE CLEAR SIGHT DISTANCE FROM THE STREETS AND THE ENTRANCE/EXIT LOCATIONS.
- 7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REQUIRED SHRUBS AND TREES PER CITY LANDSCAPE ORDINANCE OR UNTIL PROJECT IS TURNED OVER AND ACCEPTED BY OWNER.
- 8. NO CHANGES TO THE PLANT SCHEDULE ARE ALLOWED WITHOUT APPROVAL OF THE OWNER, LANDSCAPE ARCHITECT AND CITY. SUBSTITUTED PLANTS SHALL MEET THE SAME CRITERIA REGARDING TYPE, SIZE AND FUNCTION AS THOSE PLANTS SHOWN ON THE PLAN.
- 9. ACTUAL DIMENSIONS MAY VARY ON SITE.

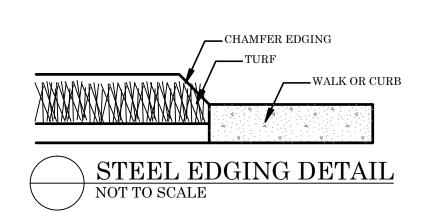
- 10. SLOPE ALL PLANTING BEDS AWAY FROM BUILDING FOR POSITIVE DRAINAGE.
- 11. AMEND TOPSOIL FOR SOD AREAS WITH SAND/SOIL/PEAT MIX.
- 12. PROVIDE 6" DEPTH OF TOPSOIL IN ALL BED AREAS, AND A 4" TOPSOIL DEPTH IN ALL SOD AREAS. TOPSOIL SHALL CONSIST OF CLEAN, DARK HUMUS RICH SOIL WITH APPROPRIATE QUANTITIES OF ORGANIC MATTER. TOPSOIL SHALL BE FREE OF WEEDS, ROOTS, STONES, AND OTHER FOREIGN MATERIALS.
- 13. IN THE EVENT OF PLANTING BEDS AND MULCH ARE REQUIRED, THE CONTRACTOR SHALL INSTALL BLACK FABRIC MESH UNDER THE MULCH TO PREVENT WEED GROWTH.
- 14. PROVIDE 3" DEPTH OF DECOMPOSED HARDWOOD MULCH IN ALL PLANTING BEDS
- GRASS AND 40% ANNUAL RYEGRASS AT 5 LBS PER 1,000 SF DURING THE APPROPRIATE TIME OF YEAR FOR THE SEED TO GERMINATE; IF THIS CANNOT BE ACCOMPLISHED, THE CONTRACTOR SHALL CALL THE LANDSCAPE ARCHITECT FOR A GRASS SEED SUBSTITUTION.

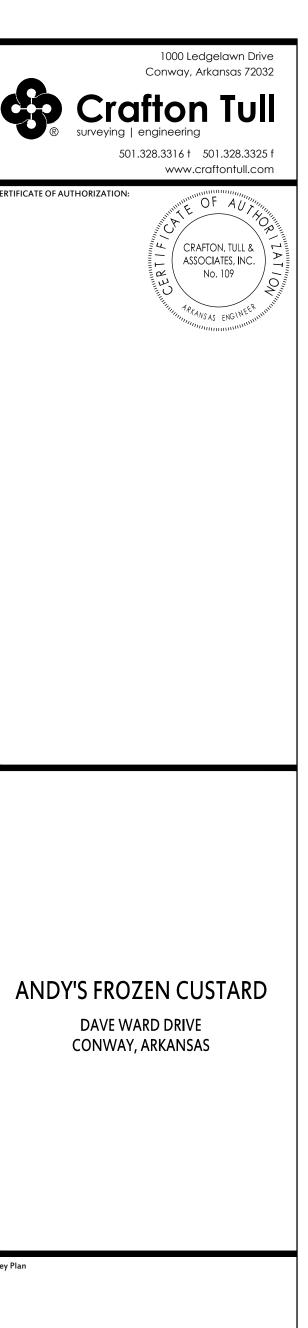
15. ALL DISTURBED AREAS NOT TO RECEIVE PLANTINGS SHALL BE SEEDED WITH 60% BERMUDA

- 16. PRUNE ALL PLANT MATERIAL NEAR SIDEWALKS TO ACCOMMODATE PEDESTRIAN MOVEMENT.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WATERING AND THE MAINTENANCE OF ALL LANDSCAPED AREAS UNTIL THE LATER OF; (i) THIRTY (30) DAYS FOLLOWING THE PLANTING OF THE GRASS AND SHRUBS, OR (ii) THE DATE THAT THE LANDSCAPE ARCHITECT HAS PROVIDED THE SCHOOL WITH A LETTER OF COMPLETION AND ACCEPTANCE.
- 18. A ONE-YEAR REPLACEMENT WARRANTY IS REQUIRED FOR ALL PLANT MATERIAL.



SECTION - MULTI-TRUNK TREE PLANTING DETAIL
NOT TO SCALE





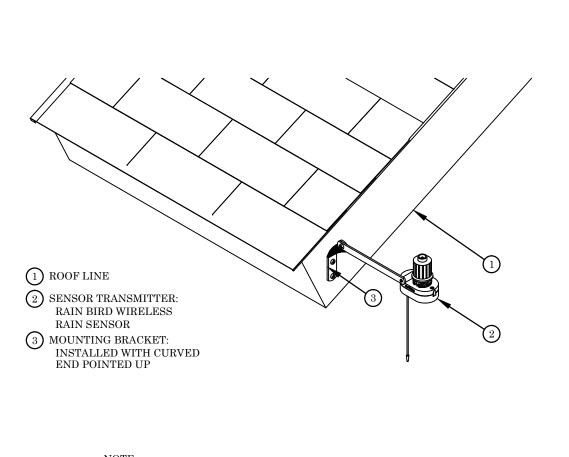
Key Plan		
1.57 - 1.50		
No.	Description	Date
	Description	Date
No	Description	Date
No	Description	Date


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authorization of Crafton,	Iull & Assoc	iates, Inc	[11 <i>1117.</i>
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PROJECT NO: 15700700	-Lill '		700//
ISSUE DATE: 03/09/2015	415.1806	<b>5</b> /	
CONTACT: G. LONG	2014-7	BM	XXX
CHECKED BY:	<b>3/2</b> :	RICH	MOND
ISSUED FOR	GIS		IAMS
CONSTRUCTION	VELEY.	No.	5026

LANDSCAPE DETAILS 3/

**Γ**01

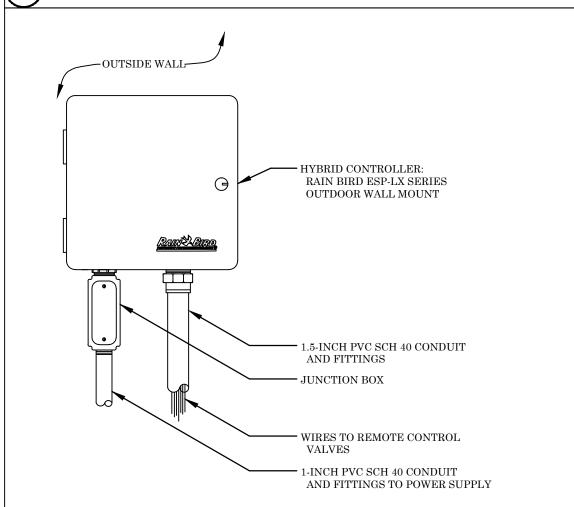


NOTE:

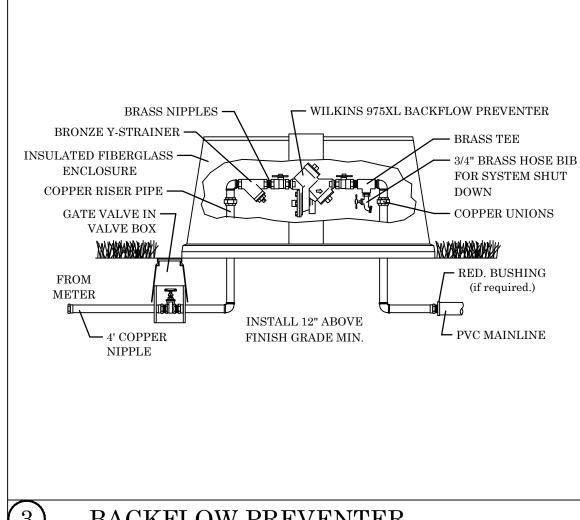
MAXIMUM LINE OF SIGHT FROM RAIN SENSOR TO RECEIVER IS 500-FT.

DISTANCE IS LESS IF OBSTRUCTIONS EXIST.

# 1) WRS SERIES SENSOR TRANSMITTER



# (2) HYBRID CONTROLLER



(3) BACKFLOW PREVENTER

# RRIGATION NOTES

1) CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 85psi WITH A FLOW RATE OF 35gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.

PLEASE NOTE: IF PRESSURE IS NOT SATISFACTORY THERE MAY BE A NEED FOR A BOOSTER PUMP TO ENHANCE PERFORMANCE OF THE SYSTEM. THE LANDSCAPE CONTRACTOR SHALL REPORT PRESSURE FINDINGS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE SYSTEM FOR DETERMINATION OF ANY BOOSTER NEEDS.

2) THIS IRRIGATION DESIGN IS DIAGRAMMATIC ONLY. THE INTENT OF THIS DESIGN IS TO SHOW THE GENERAL LAYOUT AND LOGIC OF THE SYSTEM. SCALED MEASUREMENTS, QUANTITIES AND ACTUAL LOCATION OF EQUIPMENT MAY VARY DUE TO FIELD ADJUSTMENT. PIPING LAYOUT IS SCHEMATIC, LOCATE HEADS, LINES AND WIRING ALONG BACK OF CURBS, WALKS AND BED EDGES. COMBINE LINES AND WIRING IN COMMON TRENCHES WHERE POSSIBLE. PLACE HEADS DIRECTLY ADJACENT TO CURBS AND EDGES. PLACE VALVES IN ACCESSIBLE LOCATIONS. NO LINES ARE TO BE PLACED UNDER VEHICULAR PAVING AREAS UNLESS IN IRRIGATION SLEEVES.

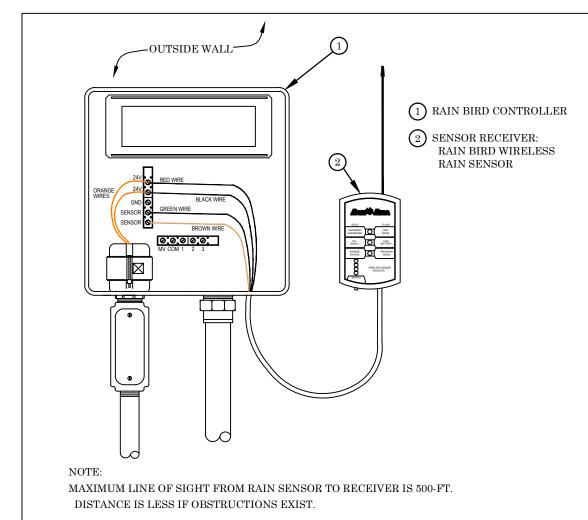
3) CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES DURING THE INSTALLATION. CONTRACTOR SHALL SEEK ASSISTANCE FROM THE LOCAL UTILITIES IN THE LOCATION OF THE UTILITIES PRIOR TO EXCAVATION.

4) CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS, ADHERE TO ALL MUNICIPAL CODES AND FOLLOW STANDARD AND ACCEPTED LOCAL PRACTICES.

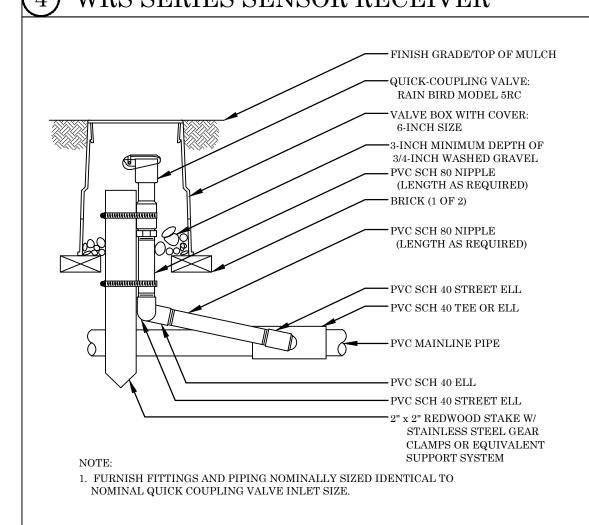
5) AN AUTOMATIC DRAIN VALVE SHALL BE INSTALLED AT THE LOWEST PORTION OF EACH ZONE AND AT 100' INTERVALS ON THE MAINLINE (SEE DETAIL).

6) VALVE WIRING SHALL BE 14 GAUGE SINGLE STRAND COPPER DIRECT BURIAL IRRIGATION WIRE. PROVIDE (1) ONE WHITE WIRE AS THE COMMON FOR ALL THE VALVES. PROVIDE (1) ONE NON-WHITE WIRE FOR EACH OF THE ZONE VALVES. ALSO PROVIDE (1) ON NON-WHITE WIRE FOR ALL THE VALVES TO BE USED AS A SPARE. ALL SPLICES SHALL BE WATERPROOF AND PLACED AT VALVE LOCATIONS ONLY.

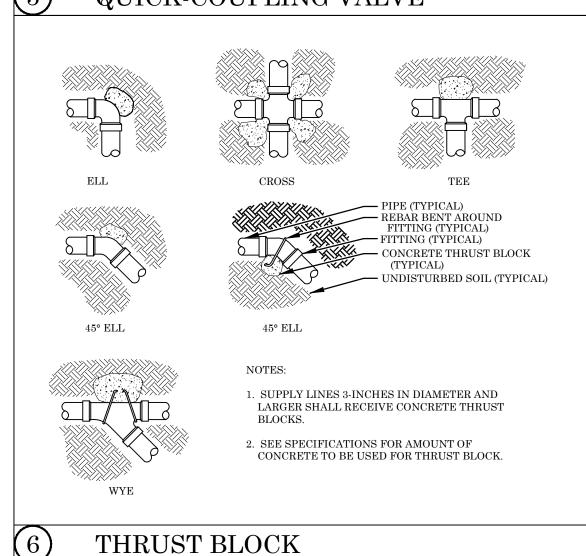
7) ALL PIPING SHALL BE CLASS 200 SDR 21 PVC. ALL FITTINGS SHALL BE SCH. 40 TYPE 1. USE A PVC SOLVENT AND PRIMER AS RECOMMENDED/APPROVED BY THE PIPE MANUFACTURER. ALL MATERIAL AND EQUIPMENT SHALL BE OF DOMESTIC MANUFACTURER PROCEEDING WITH RELATED WORK.



# 4) WRS SERIES SENSOR RECEIVER



# QUICK-COUPLING VALVE



8) PLACE ALL PIPING ON THE PERIMETER OF LANDSCAPE AREAS WHERE POSSIBLE. PLACE VALVES IN PLANTING AREAS WHERE POSSIBLE. LIMIT TRENCHING AROUND EXISTING TREES AS MUCH AS POSSIBLE. BE AWARE OF THE LOCATION OF NEW TREES AND SHRUBS AND PLACE PIPING AWAY FROM THE ROOT BALLS.

9) PROVIDE FOR WINTERIZATION BY THE BLOW OUT METHOD.

10) COORDINATE LOCATION OF THE CONTROL BOX AND RAIN SENSOR WITH THE OWNER AND/OR ARCHITECT.

11) PROVIDE 100% COVERAGE FOR ALL LANDSCAPE AREAS AND MAKE FINAL ADJUSTMENTS TO OBTAIN OPTIMAL PERFORMANCE.

12) CONTRACTOR TO PROVIDE SERVICE TAP, LINE AND METER FOR IRRIGATION SYSTEM SERVICE.13) COMPACT BACK FILL IN ALL TRENCHES TO STANDARD SUB GRADE COMPACT ION REQUIREMENTS GIVEN IN SITE GRADING

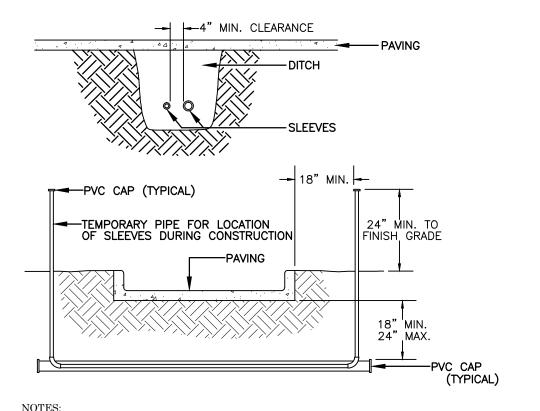
15) INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS DETAILS AND SPECIFICATIONS.

14) CONTRACTOR IS RESPONSIBLE FOR SIZING ALL WIRING TO CONTROL VALVES. DIRECT BURIAL QUALITY WIRE WITH SEALED

WATERPROOF CONNECTORS REQUIRED.

16) REVIEW AND REPORT ANY DISCREPANCIES SHOWN ON THE PLAN, FOR CORRECTION, PRIOR TO PROCEEDING WITH RELATED WORK.

17) WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.



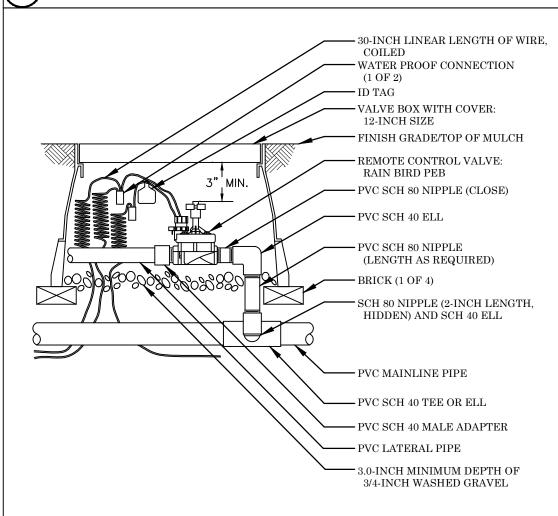
NOTES:

1. ALL PVC IRRIGATION SLEEVES TO BE SCHEDULE 40 PIPE.

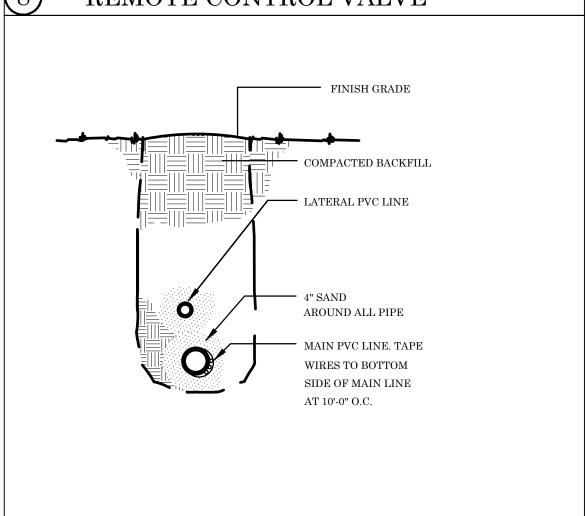
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.

3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

# 7) SLEEVING



# 8) REMOTE CONTROL VALVE



# ) TRENCH SECTION

# SLEEVING NOTES

1) ALL SLEEVING FOR THE IRRIGATION SYSTEM SHALL BE INSTALLED BY THE GENERAL CONTRACTOR.

2) SLEEVING SHALL BE 6" SCH. 40 PVC INSTALLED A MINIMUM OF 18" AND A MAXIMUM OF 24" BELOW THE FINISHED GRADE. ENDS OF THE SLEEVES SHALL EXTEND 12" PAST ALL HARDSCAPE AREAS AND BE CLEARLY MARKED FOR THE FUTURE USE OF IRRIGATION CONTRACTOR.

# CONTROLLER NOTES

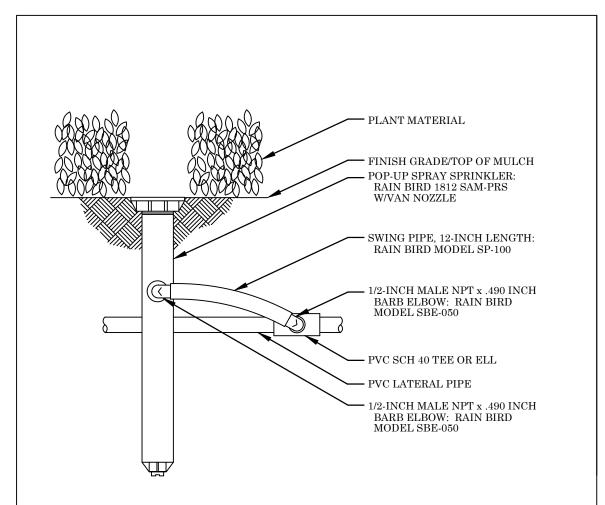
RAIN BIRD ESP-LX PLUS SERIES CONTROLLER FOR ELECTRIC VALVE SYSTEMS WITH LOCKING CABINET, MATER VALVE CIRCUIT AND INTERNAL TRANSFORMER. PROVIDE HARDWIRED ELECTRICAL POWER SOURCE FROM BUILDING SYSTEM AND COORDINATE CABINET MOUNTING LOCATION WITH OTHER ELECTRICAL PANELS AND GROUNDING. PROVIDE RIGID METAL CONDUIT TO ENCASE ALL WIRING FROM POWER SOURCE TO CONTROLLER AND CONTROLLER TO BELOW GROUND FOR VALVE CONTROL WIRING. PAINT EXPOSED CONDUIT TO MATCH BUILDING EXTERIOR.

# BACKFLOW ASSEMBLY

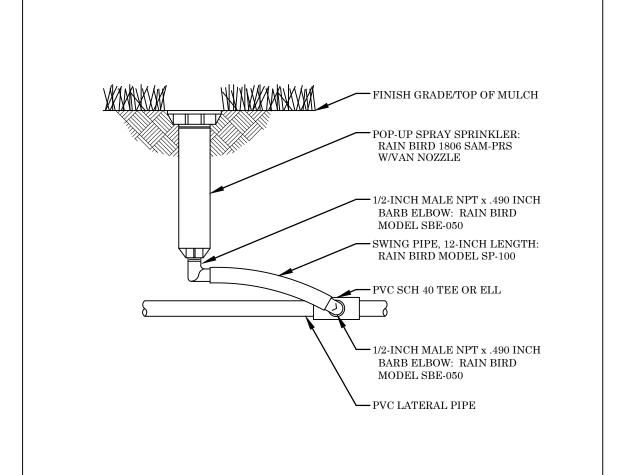
PROVIDE ONE WILKENS/ZURN MODEL 975XL REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH MANUAL GATE VALVE. INSTALL AT MINIMUM HEIGHT ABOVE FINISHED GRADE PER LOCAL PLUMBING CODE REQUIREMENTS. INSTALL WITH UNIONS FOR WINTER DISCONNECT AND USE CLOSE FITTINGS TO MINIMIZE TOTAL LENGTH OF UNIT.

# RAIN SENSOR

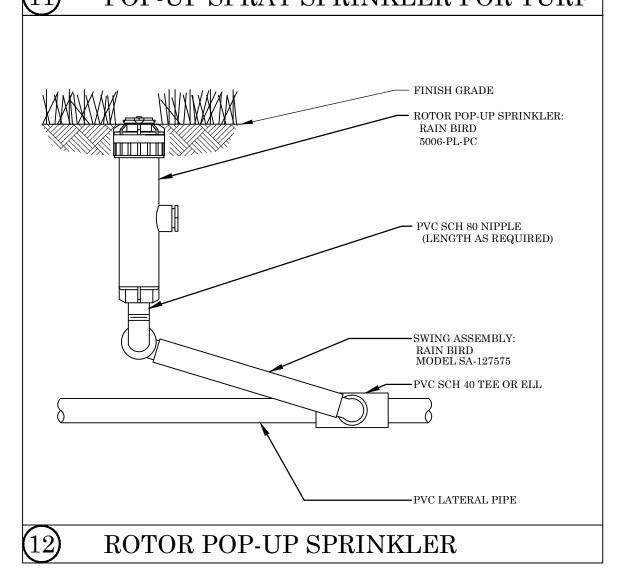
PROVIDE AND INSTALL ONE RAIN BIRD WRFC WIRELESS RAIN/FREEZE SENSOR COMBO FOR SUSPENSION OF WATERING PROGRAM DURING RAINFALL AND FREEZING TEMPERATURES. PROVIDE RIGID METAL CONDUIT AND ENCASE ALL EXPOSED WIRING FROM BASE UNIT TO CONTROLLER. PAINT EXPOSED CONDUIT TO MATCH BUILDING EXTERIOR.



# (10) POP-UP SPRAY SPRINKLER FOR BEDS



# (11) POP-UP SPRAY SPRINKLER FOR TURF



#### NOTE

SEE THE LANDSCAPE, DIMENSIONING, AND GRADING PLANS FOR LOCATION OF WALKS, LIGHTS, WALLS AND OTHER FEATURES THAT MAY IMPACT THE INSTALLATION OF THE IRRIGATION SYSTEM.



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ANDY'S FROZEN CUSTARD

DAVE WARD DRIVE

CONWAY, ARKANSAS

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PROJECT NO: 15700700
SSUE DATE: 03/09/2015
CONTACT: G. LONG
CHECKED BY:

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