

Andy's Frozen Custard #204

630 NW Chipman Road, Lee's Summit, MO 64086

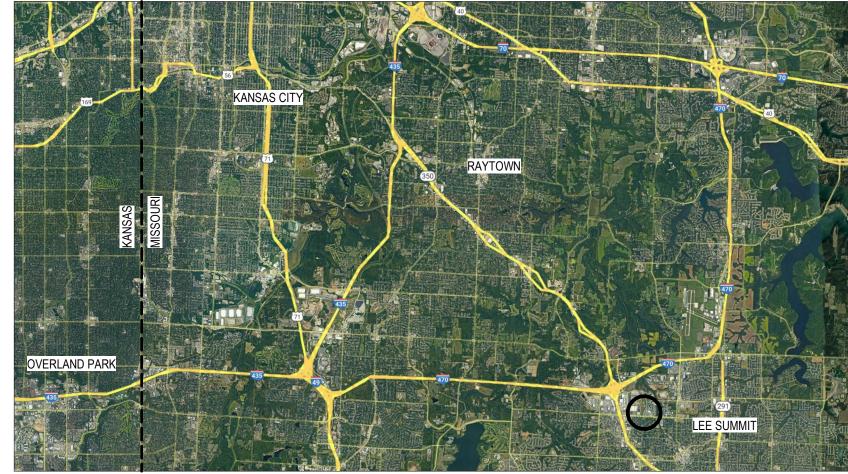
CONSTRUCTION DOCUMENTS | 05/01/2024

SITE PLAN:



630 NW Chipman Road, Lee's Summit, MO 64086

LOCATION PLAN:



Greater Kansas City Area

PROJECT DIRECTORY:

ARCHITECT / INTERIOR DESIGNER:



3612 Karnes Blvd. Kansas City, Missouri 64111 P: 816-531-0200

Contact: Wesley Yngsdal Email: wyngsdal@hufft.com

ETTEMEYER

CLIENT CONTACT:



Andy's Frozen Custard

211 E. Water Street

Contact: Josh Braun



SHEET INDEX

ENLARGED GRADING PLAN

ENLARGED GRADING PLAN

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EROSION CONTROL PLAN

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EROSION CONTROL DETAILS

STORM SEWER PLAN & PROFILE

UTILITY PLAN

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MEP SYMBOLS LEGEND FIRST FLOOR HVAC PLAN HVAC DETAILS AND SCHEDULES

UNDERGROUND PLUMBING PLAN PLUMBING DETAILS AND SCHEDULES

SPECIAL SYSTEMS PLAN ELECTRICAL SCHEDULES AND DETAILS

> THIS DRAWING MAY BE PART of an integrated set of Construction Documents, including the Contract, the Conditions and the Specifications. The Contract Documents are complementary: what is required by one is as binding as if required by all. Application of a material or equipmen item to Work installed by others constitutes acceptance of that Work. Calculate and measure dimensions – DO NOT SCALE DRAWINGS unless directed by the Architect to do so. Dimensions indicated are to the face of a material,

THIS DRAWING WAS PREPARED under the Architect's supervision, and is an "Instrument of Service" intended solely for use by our Client on this project. The Architect

Architect. The information, ideas and designs indicated -

disclaims responsibility for the existing building structure, existing site conditions, existing construction elements, and

including the overall form, arrangement and composition of spaces or building elements - constitutes the original, confidential, and unpublished Work and property of the

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Hufft

211 E. Water Street

www.eatandys.com ARCHITECT: HUFFT

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

METTEMEYER ENGINEERING, LLC

2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

PHELPS ENGINEERING, INC.

3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

RTM ENGINEERING CONSULTANTS

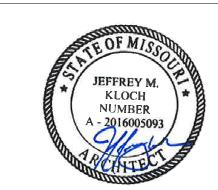
CONSTRUCTION DOCUMENTS

05/30/2024 Addendum 1

05/01/2024

REVISION SCHEDULE:

NO. DATE



05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Project Number: 736

COVER SHEET/DRAWING INDEX

STRUCTURAL ENGINEER:



Mettemeyer Structural 2225 W. Chesterfield Blvd. Suite 300 Springfield, MO 65807

CONTACT: Joshua Thorpe

P: 417.890.8002

CIVIL ENGINEER:



Phelps Engineering, Inc.

1270 N. Winchester Olathe, KS 66061 P: 913.393.1155

CONTACT: Dan Finn



Springfield, MO, 65806 P: 417-881-3500

Email: josh.braun@eatandys.com

M.E.P. ENGINEER:



RTM Engineering Consultants

3333 East Battlefield Road, Suite 1000 Springfield, MO 65804 P: 417.881.0020

CONTACT: Tyler Enserro

LS-1 LANDSCAPE PLAN

ARCHITECTURAL

LANDSCAPE

A010	ARCHITECTURAL SITE PLAN
A011	SITE SIGNAGE
A020	AXON 3D VIEWS
A101	FLOOR PLAN
A102	EQUIPMENT & FURNISHINGS PL
A103	DIMENSIONED PLUMBING PLAN
A104	ROOF PLAN
A105	REFLECTED CEILING PLAN
A301	ELEVATIONS
A302	ELEVATIONS
A401	SECTIONS
A402	SECTIONS
A501	WALL SECTIONS
A502	WALL SECTIONS
A503	DETAILS - DRIVE THRU CANOPY
A504	DETAILS - PATIO CANOPY
A505	DETAILS - EXTERIOR

GENERAL NOTES

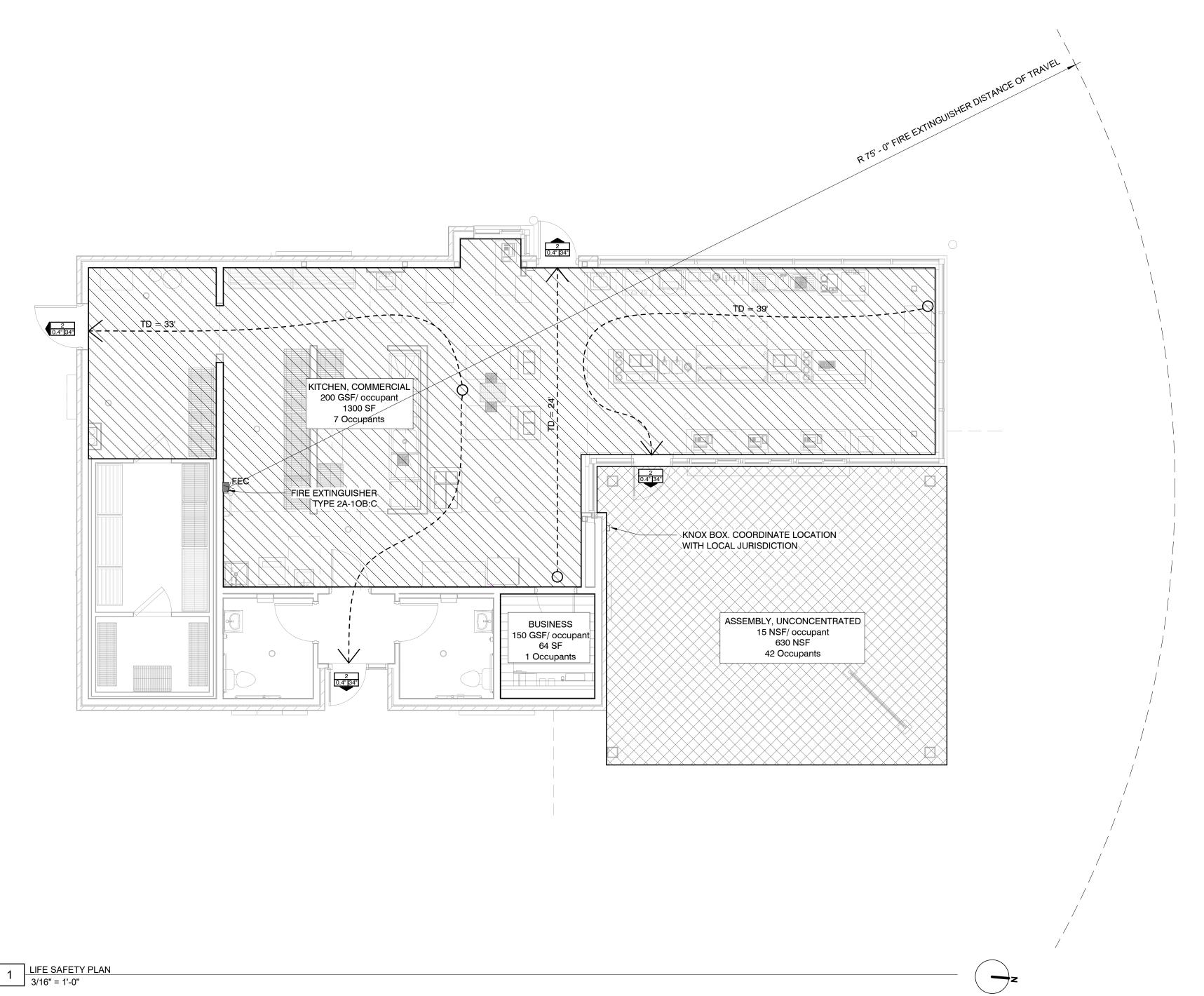
TYP. MOUNTING HEIGHTS

DETAILS - SITE A601 FINISH PLAN PATIO & INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS SCHEDULES AND DETAILS

STOREFRONT ELEVATIONS

DETAILS - EXTERIOR

DETAILS - INTERIOR



PROJECT DESCRIPTION

New construction of a 1-Story stand alone frozen custard store with drive-through and walk-up sales.

APPLICABLE CODES

Lee's Summit, MO enforces the 2018 International Building Code (IBC) or 2018 International Existing Building Code (IEBC) and associated International Codes:

 2018 International Mechanical Code (IMC) 2018 International Plumbing Code (IPC)

2018 International Fire Code (IFC)

 2017 National Electrical Code (NFPA 70 NEC) 2018 International Fuel Gas Code (IFGC) ANSI A117.1 - 2009

ZONING

The property is zoned PMIX, defined as planned mixed use. Conditioned area of building is 1,980 SF.

Number of employees (max shift) = 8

<u>Requirement</u> <u>Designed</u> 2+1 per employee Parking Accessible

CONSTRUCTION TYPE chapter 5 & 6

The building is TYPE V-B CONSTRUCTION requires non-combustible construction and the fire resistance rating of structural elements as follows (Table 601):

 Primary Columns & Beams Bearing Walls 0-hour Exterior Non-Bearing Walls 0-hour, if 10' or more to property line Floors 0-hour Roof 0-hour

Allowable building height and area (Table 503) Use: B 40'-0", 2 Story, & 9,000 SF

Building Area Modification (Section 506)

 None FIRE PROTECTION chapter 9

Sprinklers (section 903)

No, area does not exceed 5,000 sf or occupant load does not exceed 100

Yes, within 30 feet of commercial cooking equipment Fire Extinguishers (section 906)

Fire Alarm (section 907) No, occupant load does not exceed 300

OCCUPANCY CLASSIFICATION & EXIT CRITERIA chapter 10

Occupancy (Table 1004.1.2)

Occupancy A-2, Assembly, Unconcentrated Assembly B, Business (Office) A-2, Kitchen, Kitchen Commerical	Area 630 sf 64 sf 1300 sf	Occupant Load 15 net 100 net 200 gross	<u>Tota</u> 42 1 7
	1,994 gross s	f	50
Requirement Min. number of exits (section 1016.1)	Occupancy A. B	Req. 2 at 1/2 the diagonal	

PLUMBING SYSTEMS chapter 29

Min. Required Plumbing Fixtures (Table 2902.1)

Max travel distance (secion 1016.2)

Use Group	Occ.Load	Water C	Closets	Lavatori	ies	Drinking	<u>Ftn</u>	Service	Sink
		Req.	Design	Req.	Design	Req.	Design	Req.	Desig
A-2	50	1/75	1 (M/F)	1/200	1 (M/F)	0*	0	1/500	1

*IPC Section 410.1, where water is served in restuarants, drinking fountains shall not be required.

CODE PLAN LEGEND

PARTITIONS/BARRIERS 1/2 HOUR FIRE RATED WALL FE - FIRE **EXTINGUISHER** — - — 1 HOUR FIRE RATED WALL ---- 2 HOUR FIRE RATED WALL

- - - - 3 HOUR FIRE RATED WALL

TRAVEL DOOR TRAVEL DISTANCE - START OCCUPANTS DIRECTION OF TRAVEL PROVIDED WIDTH REQUIRED WIDTH TRAVEL DISTANCE - END

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road

Lee's Summit, Missouri 64086 OWNER: ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT 3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com

STRUCTURAL: METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL/LANDSCAPE:

PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

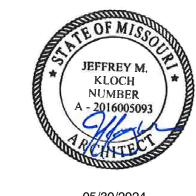
CONSTRUCTION DOCUMENTS 05/01/2024

REVISION SCHEDULE: NO. DATE

THIS DRAWING WAS PREPARED under the Architect's supervision, and is an "Instrument of Service" intended solely for use by our Client on this project. The Architect disclaims responsibility for the existing building structure, existing site conditions, existing construction elements, and drawings or documents not signed and sealed by the Architect. The information, ideas and designs indicated including the overall form, arrangement and composition of spaces or building elements - constitutes the original, confidential, and unpublished Work and property of the Architect. Receipt or possession of this Drawing confers no right in, or license to disclose to others the subject matter contained herein for any but authorized purposes.

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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: WY Project Number: 736

PROJECT DATA/ LIFE SAFETY

FOR

ANDY'S FROZEN CUSTARD

ADDRESS: 630 N.W. CHIPMAN ROAD

IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

FUTURE LOT 10D FUTURE FUTURE LOT LOT 10E 0.77 AC. 0.74 AC. NW CHIPMAN ROAD (PUBLIC)

PRE-CONSTRUCTION MEETING NOTE: THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES STATE OIL & GAS COUNCIL WELLS, LOCATED

UTILITY COMPANIES:

OVERLAND PARK, KANSAS 66207

FIRE ACCESS ROAD NOTE:

OIL-GAS WELLS:

MISSOURI GAS ENERGY (816) 969-2218 LUCAS WALLS (LUCAS.WALLS@SUG.COM) 3025 SOUTHEAST CLOVER DRIVE LEE'S SUMMIT, MO 64082

(816) 347-4339 PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM) RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM) (816) 347-4316 1300 HAMBLEN ROAD LEE'S SUMMIT, MO 64081

STORM SEWER (PUBLIC WORKS DEPARTMENT) (816) 969-1800 220 SE GREEN STREET LEE'S SUMMIT, MO 64063

SANITARY SEWER & WATER (WATER UTILITIES DEPT.) (816)-969-1900 1200 SE HAMBLEM ROAD,

LEE'S SUMMIT, MO 64081 AT&T (913) 383-4929 (913) 383-4849-FAX MR. CLAYTON ANSPAUGH (CA4089@ATT.COM) 9444 NALL AVENUE

UTILITY NOTES:
VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN.
UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

CO COVER SHEET DEMOLITION PLAN OVERALL SITE PLAN ENLARGED SITE PLAN

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TRUCK TURN PLAN OVERALL GRADING PLAN

C2.1-C2.2 ENLARGED GRADING PLAN C3 UTILITY PLAN

> DRAINAGE MAP STORM SEWER PLAN & PROFILE

SECONDARY STORM PLAN C6-C6.1 EROSION CONTROL PLAN & DETAILS

C7-C7.6 | STANDARD DETAILS LANDSCAPE PLAN

SITE PHOTOMETRIC PLAN ARCHITECTURAL PLANS

LEGAL DESCRIPTION:

LOT 10E, SUMMIT FAIR, LOTS 10D - 10F, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

 $AREA = \pm 0.7686 ACRES / \pm 33,476 SQ.FT.$

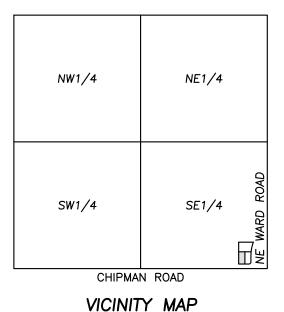
PREPARED & SUBMITTED BY:

PHELPS ENGINEERING, INC. 1270 N. WINCHESTER OLATHE, KS 66061 913-393-1155 OFFICE 913-393-1166 FAX CONTACT: JUDD CLAUSSEN, P.E.

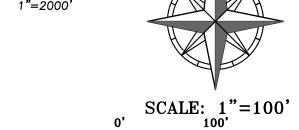
DEVELOPER:

PROJECT LOCATION

ANDY'S FROZEN CUSTARD 211 E. WATER ST. SPRINGFIELD, MO 65806 417-986-3585 CONTACT: LIANA MOORE

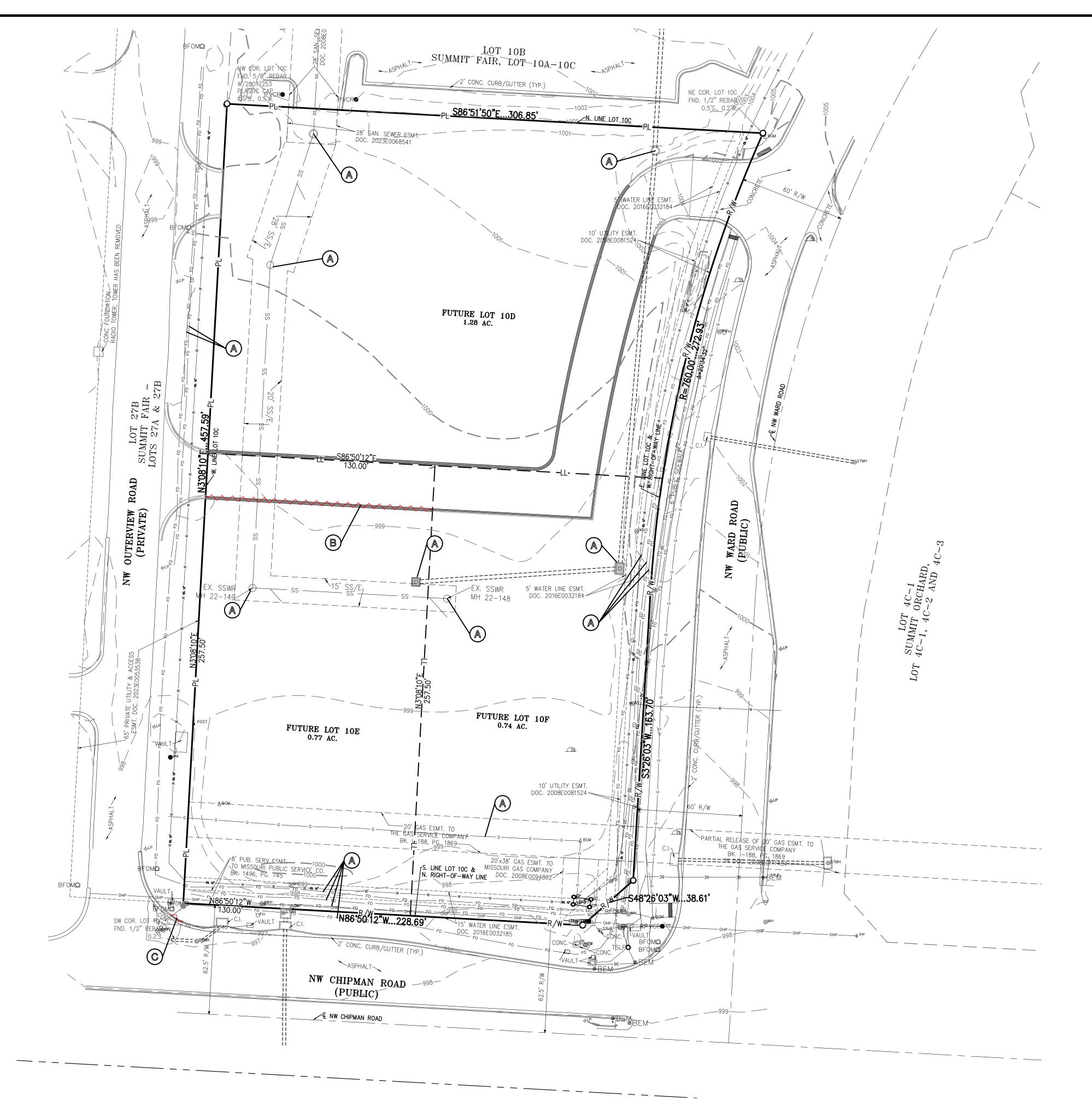


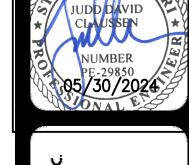
SEC. 36-48-32











ALL UTILITIES SERVING STRUCTURES IMMEDIATELY SURROUNDING THE DEMOLITION BOUNDARY SHALL REMAIN IN SERVICE THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY DAMAGE TO SUCH UTILITIES. TYPICAL LOCATION.

CONTRACTOR TO PERFORM CLEAN SAW CUT ADJACENT TO INSIDE EDGE OF EXISTING TEMPORARY ASPHALT CURB. REMOVE EXISTING TEMPORARY ASPHALT CURB AND ASPHALT PAVEMENT FROM SAWCUT LINE TO EXISTING EDGE OF PAVEMENT TO PROVIDE CLEAN JOINT LINE WITH NEW PAVEMENT.

LEGEND - - R/W- - RIGHT-OF-WAY

DEMOLITION KEY NOTES:

CONTRACTOR TO PERFORM REMOVAL OF BACK OF CURB.

REMOVE EXISTING TEMPORARY ASPHALT CURB -----BT------ EXISTING BURIED TELEPHONE ----- FO ----- EXISTING FIBER OPTIC LINE

------ G------- EXISTING GAS LINE -----BE----- EXISTING BURIED ELECTRIC

EXISTING OVERHEAD POWER LINE ------ ss ------ Existing Sanitary Sewer EXISTING STORM SEWER EXISTING FIRE HYDRANT

—×—×— EXISTING CHAIN LINK FENCE

EXISTING LIGHT POLE

LP ------

SE1/4 CHIPMAN ROAD

NE1/4

NW1/4

SW1/4

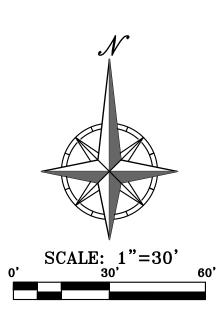
VICINITY MAP SEC. 36-48-32

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL CURBS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.

2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

3. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. 4. CONTRACTOR MUST COORDINATE WITH OWNER PRIOR TO ANY CONSTRUCTION TO ESTABLISH CUSTOMER ACCESS AND TRAFFIC FLOW DURING ALL PHASES.



SHEET

UTILITY NOTES: VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN

THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

Know what's below. Call before you dig.

4. STOP SIGNS SHALL BE PROVIDED AT ALL LOCATIONS AS SHOWN ON PLANS AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". SIGNS SHALL BE 18" X 12", 18 GAUGE STEEL AND SHALL BE ENGINEER GRADE REFLECTIVE.

LOT 10E, SUMMIT FAIR, LOTS 10D - 10F, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,

1. All construction materials and procedures on this project shall conform to the latest revision of the following

2. The contractor shall have one (1) signed copy of the plans (approved by the City) and one (1) copy of the

3. The contractor will be responsible for securing all permits, bonds and insurance required by the contract documents, City of Lee's Summit, Missouri, and all other governing agencies (including local, county, state and

federal authorities) having jurisdiction over the work proposed by these construction documents. The cost for all

permits, bonds and insurance shall be the contractors responsibility and shall be included in the bid for the work.

4. The contractor is responsible for coordination of his and his sub-contractor's work. The contractor shall assume all responsibility for protecting and maintaining his work during the construction period and between the various

5. The demolition and removal(or relocation) of existing pavement, curbs, structures, utilities, and all other features necessary to construct the proposed improvements, shall be performed by the contractor. All waste material removed during construction shall be disposed off the project site. The contractor shall be responsible for all permits for hauling and disposing of waste material. The disposal of waste material shall be in accordance with

6. Contractor shall be responsible for all relocations, including but not limited to, all utilities, storm drainage, sanitary sewer services, signs, traffic signals & poles, etc. as required. All work shall be in accordance with

7. All existing utilities indicated on the drawings are according to the best information available to the Engineer; however, all utilities actually existing may not be shown. The contractor shall be responsible for contacting all utility companies for an exact field location of each utility prior to any construction. All underground utilities shall be protected at the contractor's expense. All utilities, shown and unshown, damaged through the negligence of the

8. The contractor will be responsible for all damage to existing utilities, pavement, fences, structures and other

9. The contractor shall verify the flow lines of all existing storm or sanitary sewer connections and utility crossings

10. SAFETY NOTICE TO CONTRACTOR: In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working

hours. Any construction observation by the engineer of the contractor's performance is not intended to include

11. Refer to the building plans for site lighting electrical requirements, including conduits, pole bases, pull boxes, etc.

1. BUILDING TIES SHOWN ARE TO THE OUTSIDE FACE OF PROPOSED WALLS. THE SUBCONTRACTOR SHALL REFER TO

2. ALL DIMENSIONS SHOWN FOR THE PARKING LOT AND CURBS ARE MEASURED FORM BACK OF CURB TO BACK OF

1. PARKING STALL MARKING STRIPES SHALL BE FOUR INCH (4") WIDE WHITE STRIPES. DIRECTIONAL ARROW AND

2. HANDICAP PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO ALL FEDERAL (AMERICANS WITH DISABILITIES ACT)

3. TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL

features not designated for removal. The contractor shall repair all damages at his expense.

review of the adequacy of the contractor's safety measures, in, on or near the construction site.

THE ARCHITECTURAL PLANS FOR SPECIFIC DIMENSIONS AND LAYOUT INFORMATION FOR THE BUILDINGS.

PAVEMENT MARKING AND SIGNAGE NOTES:

HANDICAP STALL MARKINGS SHALL BE FURNISHED AT LOCATIONS SHOWN ON PLANS.

governing authorities specifications and shall be approved by such. All cost shall be included in base bid.

appropriate Design and Construction Standards and Specifications at the job site at all times.

5. TRAFFIC CONTROL AND PAVEMENT MARKINGS SHALL BE PAINTED WITH A WHITE SHERWIN WILLIAMS S-W TRAFFIC MARKING SERIES B-29Y2 OR APPROVED EQUAL. THE PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. APPLY ON A CLEAN, DRY SURFACE AND AT A SURFACE TEMPERATURE OF NOT LESS THAN 70°F AND THE AMBIENT AIR TEMPERATURE SHALL NOT BE LESS THAN 60°F AND RISING. TWO COATS SHALL BE APPLIED.

ZONING:

THIS PROPERTY IS ZONED PMIX, DEFINED AS PLANNED MIXED USE.

OIL-GAS WELLS:

ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES STATE OIL & GAS COUNCIL WELLS, LOCATED AT www.dnr.mo.gov/geology/geosrv/oilandgas.htm, THERE ARE NO OIL OR GAS WELLS ON THE PROPERTY SHOWN

PRE-CONSTRUCTION MEETING NOTE:

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FIRE ACCESS ROAD NOTE:

ALL FIRE ACCESS LANES SHALL BE HEAVY DUTY ASPHALT CAPABLE OF SUPPORTING 75,000-POUNDS.

BUILDING & LOT DATA

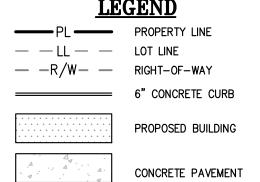
Lot 10E	
Zoning	PMIX
Site Area	33,476 S.F. (0.77 Ac.)
Building Area	1,980 S.F.
FAR	0.0591 Ac.
Impervious Area	22,228 S.F. (66%)
Open Space	11,248 S.F. (34%)
·	· · · · · · · · · · · · · · · · · · ·

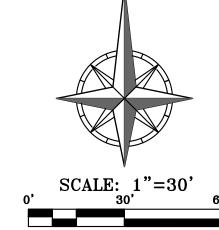
PARKING SUMMARY

Lot 10E	
Building SF - 1,980 S.F.	
Use — Carry out, drive up, or drive thru only	
# of employees (max shift) - 8	
Required Parking $-2 + 1$ per employee (max shift)	10 Spaces
Parking Provided	21 Spaces

CONCRETE SIDEWALK

LEGEND





CROSS ACCESSES AND CROSS PARKING CROSS ACCESS AND CROSS PARKING RIGHTS AND OBLIGATIONS FOR LOTS CREATED BY THE MINOR PLAT OF SUMMIT FAIR, LOTS 10D-10F ARE ESTABLISHED VIA THE DECLARATION OF COVENANTS, CONDITIONS,

NE1/4 NW1/4

RESTRICTIONS AND EASEMENTS AS REFERENCED ON THE RECORDED PLAN.

CHIPMAN ROAD

1"=2000' SW1/4 SE1/4

VICINITY MAP SEC. 36-48-32 **LEGAL DESCRIPTION:**

SITE PLAN NOTES:

A) City ordinances & O.S.H.A. Regulations.

trades/sub-contractors constructing the work.

SITE DIMENSION NOTES:

OF UNIFORM TRAFFIC CONTROL DEVICES".

all local, state and federal regulations.

ACCORDING TO THE RECORDED PLAT THEREOF.

 $AREA = \pm 0.7686 ACRES / \pm 33,476 SQ.FT.$

governing requirements, incorporated herein by reference:

B) The City of Lee's Summit Technical Specifications and Municipal Code.

contractor shall be repaired or replaced by the contractor at his expense.

prior to the start of construction. Notify the engineer of any discrepancies.

OVE ANDY 630 LEE'

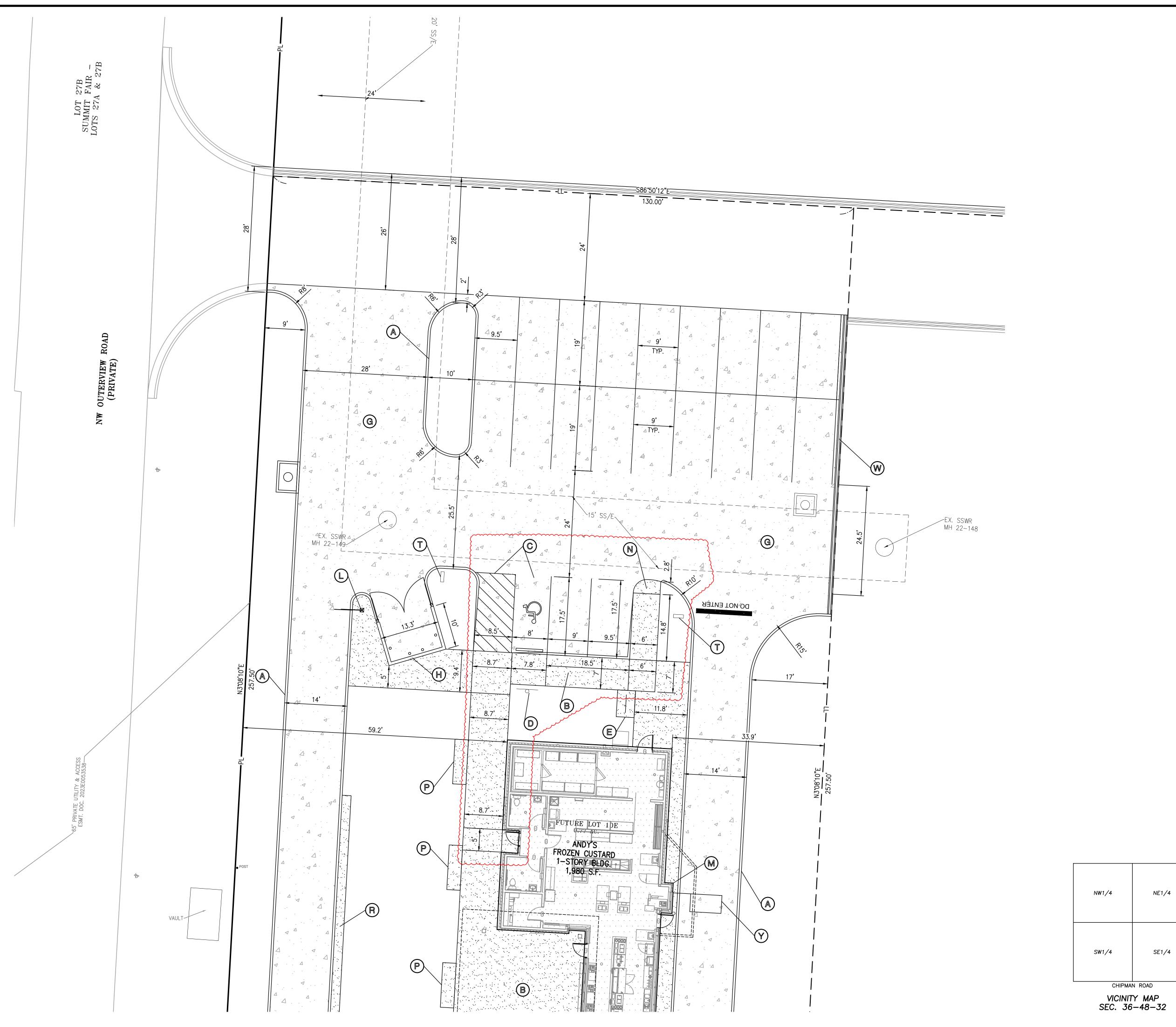
SHEET

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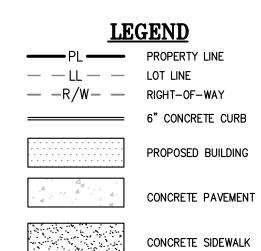
FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

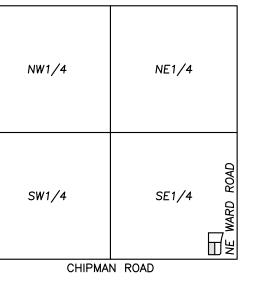


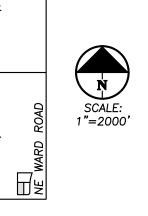
SITE KEY NOTES:

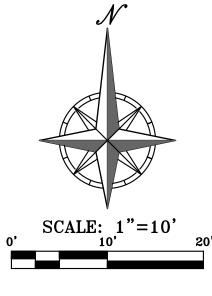
- CONSTRUCT PRIVATE 6" MONOLITHIC CONCRETE CURB.
- CONSTRUCT PRIVATE CONCRETE SIDEWALK (TYPICAL). SEE "PRIVATE CONCRETE SIDEWALKS (NON-REINFORCED)" DETAIL ON SHEET 7.1.
- INSTALL ACCESSIBLE PAVEMENT MARKINGS PER ADA SPECIFICATIONS. SEE "ACCESSIBLE PARKING SPACE DETAIL" DETAIL ON SHEET C7.2.
- INSTALL VAN ACCESSIBLE PARKING SIGN. SEE "ACCESSIBLE SIGN" DETAILS ON SHEET C7.2.
- E INSTALL ONE BIKE RACK FOR 2 SPACES.
- INSTALL SPEED TABLE W/ SCORED CONCRETED CROSSWALK. SEE "CROSSWALK DETAIL" ON SHEET C7.1.
- INSTALL CONCRETE PAVEMENT. SEE "CONCRETE PAVING" DETAIL ON SHEET C7.
- INSTALL TRASH ENCLOSURE (RE: ARCHITECT PLANS).
- CONSTRUCT ELECTRICAL UTILITY PAD (RE: EVERGY WORKORDER).
- INSTALL MONUMENT SIGN (RE: SITE SIGNAGE PLANS).
- INSTALL PRE-ORDER MENU BOARD (RE: SITE SIGNAGE PLANS.)
- INSTALL CLEARANCE BAR (RE: SITE SIGNAGE PLANS).
- PICK-UP WINDOW (RE: ARCHITECT PLANS).
- CONSTRUCT PRIVATE ACCESSIBLE SIDEWALK CURB RAMP (OMIT DETECTABLE WARNING). SEE "PRIVATE SIDEWALK RAMP DETAIL" ON SHEET C7.1..
- INSTALL 25 FT TALL FLAG POLE (RE: SITE SIGNAGE PLANS).
- INSTALL PEDESTRIAN BENCH (SEE SHEET C7.4 FOR DETAILS).
- INSTALL FENCE (SEE SHEET C7.4 FOR DETAILS).
- CONSTRUCT 24" WIDE PRIVATE CONCRETE SIDEWALK "RUNNER" STRIP ALONG DRIVE THRU.
- CONSTRUCT CONCRETE STAIRS W/ HANDRAIL ON BOTH SIDES. SEE "CONCRETE STAIRS DETAIL" ON SHEET C7.6.
- INSTALL DIRECTIONAL SIGNAGE (RE: SITE SIGNAGE PLANS).
- INSTALL PUBLIC CONCRETE SIDEWALK.
- INSTALL PUBLIC CONCRETE SIDEWALK RAMP. SEE "ADA RAMP" DETAIL ON SHEET C7.6.
- CONSTRUCT PRIVATE TEMPORARY ASPHALT CURB IF ADJACENT CONSTRUCTION ACTIVITY IS NOT UNDERWAY OR EMINENT. SEE DETAIL "TEMPORARY ASPHALT CURB" ON SHEET C7.
- INSTALL PUBLIC CONCRETE SIDEWALK ADJOINING EXISTING JUNCTION BOX, SEE "SIDEWALK ADJACENT TO EX. STORM STRUCTURE" DETAIL ON SHEET C7.6.

INSTALL DRIVE THRU LOOP DETECTOR (RE: MEP PLANS FOR DETAILS).

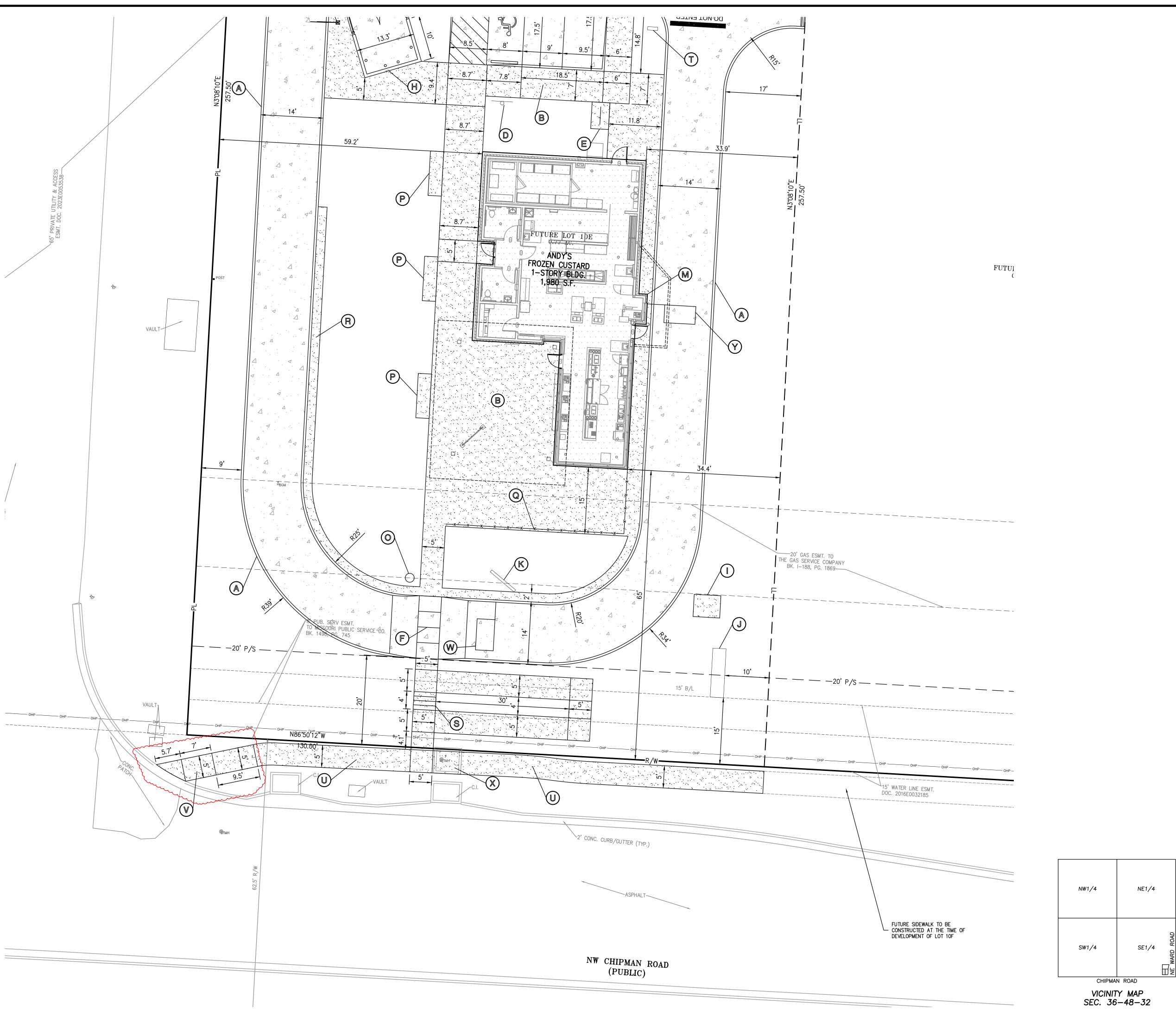












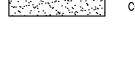


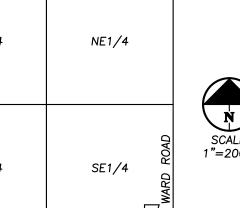
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INSTALL DRIVE THRU LOOP DETECTOR (RE: MEP PLANS FOR DETAILS).

LEGEND PL PROPERTY LINE - - LL - - LOT LINE - -R/W- - RIGHT-OF-WAY 6" CONCRETE CURB PROPOSED BUILDING

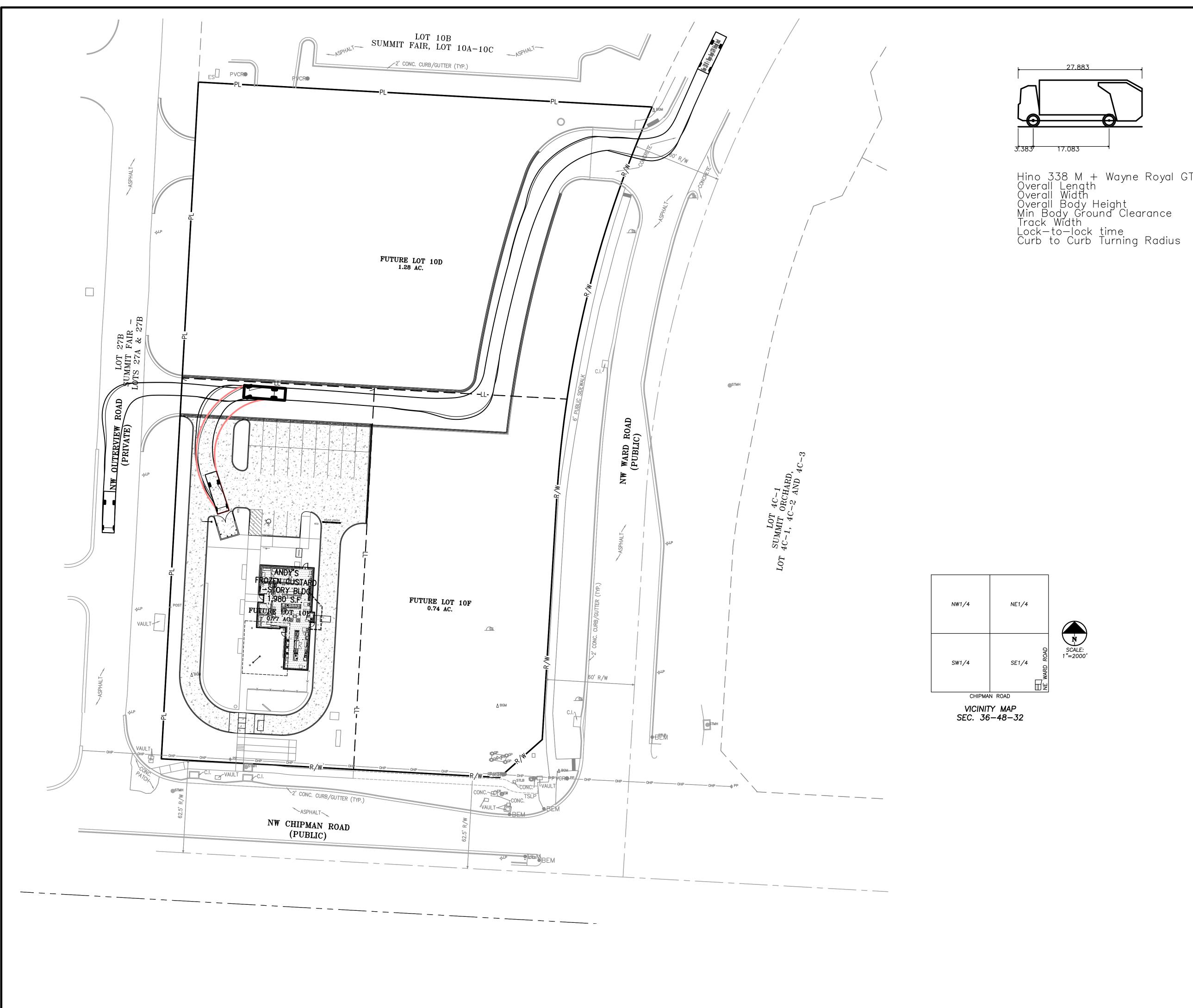
CONCRETE PAVEMENT CONCRETE SIDEWALK



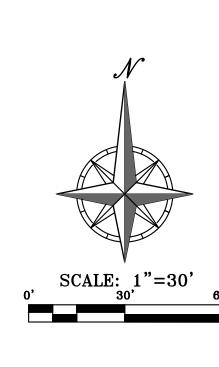




05/30/2024



Hino 338 M + Wayne Royal GT14 Refuse Truck Overall Length 27.883ft Overall Width 8.042ft Overall Body Height 10.488ft Min Body Ground Clearance 1.318ft Track Width 8.042ft Lock—to—lock time 6.00s Curb to Curb Turning Radius 27.400ft





SITE GRADING NOTES:

by the owner and ITL.

- CONTOURS AND ELEVATIONS: Existing and proposed contours are shown on plans at one foot (1') contour intervals, unless otherwise noted, proposed contours and elevations shown represent approximate finish grade. Contractor shall hold down subgrades to allow for pavement and sub-base thicknesses.
- 2. If the contractor does not accept existing topography as shown on the plans, without exception, he shall have made at his expense, a topographic survey by a registered land surveyor and submit it to the owner for review.
- CLEARING AND GRUBBING: Prior to beginning preparation of subgrade, all areas under pavements or building shall be stripped of all topsoil, vegetation, large rock fragments (greater than 6 inches in any dimension) and any other deleterious material. The actual stripping depth should be based on visual examination during construction and the results of proof-rolling operations. The root systems of all trees (not designated to remain) shall be removed in their entirety. Stripping materials shall not be incorporated into structural fills.
- 4. TOPSOIL STRIPPING: Prior to the start of site grading, the contractor shall strip all topsoil from areas to be graded, and stockpiled at a location on or adjacent to the site as directed by the owner. At completion of grading operations and related construction, the contractor will be responsible for redistribution of topsoil over all areas disturbed by the construction activities. Topsoil shall be placed to a minimum depth of six inches (6") and in accordance with specifications for landscaping. At that time, and prior to the installation of landscaping or irrigation, all topsoil graded areas shall be visually inspected and accepted
- 5. Contractor shall adjust and/or cut existing pavement as necessary to assure a smooth fit and continuous grade. Contractor shall assure positive drainage away from buildings for all natural and paved areas.
- SUBGRADE PREPARATION: Prior to placement of new fill material, the existing subgrade shall be proofrolled and approved under the direction of the Geotechnical Engineer or his representative.
- PROOFROLLING: Subsequent to completion of stripping and over—excavation, all building and pavement areas to receive engineered fill should be systematically proof-rolled using a tandem axle dump truck loaded to approximately 20,000 pounds per axle. Also, any finished subgrade areas to receive paving shall be proof-rolled within 48 hours of paving. Unsuitable soils that are detected and that can not be recompacted should be over-excavated and replaced with controlled structural fill.
- 8. EARTHWORK:
 - A) GEOTECHNICAL: All earthwork shall conform to the recommendations of the Geotechnical report. Said report and its récommendations are herein incorporated into the project requirements by reference. Prior to beginning construction, the contractor shall obtain a copy of and become familiar with the geotechnical report. Unless specifically noted on the plans, the recommendations in the geotechnical report are hereby incorporated into the project requirements and specifications.
 - B) SURFACE WATER: Surface water shall be intercepted and diverted during the placement of fill.
 - C) FILLS: All fills shall be considered controlled or structural fill and shall be free of vegetation, organic matter, topsoil and debris. In areas where the thickness of the engineered fill is greater than five, feet building and pavement construction should not commence until so authorized by the on-site geotechnical engineer to allow for consolidation.
 - D) BUILDING SUBGRADE: As specified in the Geotechnical Engineering Report, the upper section of building subgrade shall consist of Low Volume Change (LVC) material defined as approved, compacted granular fill or low to moderate plasticity cohesive soil materials stabilized with Class C Flyash. Granular fill shall consist of compacted granular materials with a maximum particle size of two (2) inches or less, such as limestone screenings. Refer to geotechnical report for complete
 - E) EXISTING SLOPES: Where fill material is to be placed on existing slopes greater than 5:1 (horizontal to vertical), existing slope shall be benched providing a minimum vertical face of twelve inches (12"). The benches should be cut wide enough to accommodate the compaction equipment. Fill material shall be placed and compacted in horizontal lifts not exceeding nine inches (9") (loose lift measurement), unless otherwise approved by the Geotechnical Engineer.
- F) COMPACTION REQUIREMENTS: The upper 9 inches of pavement subgrade areas shall be compacted to a minimum density of ninety five percent (95%) of the material's maximum dry density as determined by ASTM D698 (standard proctor compaction). The moisture content at the time of placement and compaction shall within a range of 0% below to 4% above optimum moisture content as defined by the standard proctor compaction procedure. The moisture contents shall be maintained within this range until completion of the work. Where compaction of earth fill by a large roller is impractical or undesirable, the earth fill shall be hand compacted with small vibrating rollers or mechanical tampers.
- 9. All cut or fill slopes shall be 3:1 or flatter. All asphalt parking areas shall be a minimum of 1% slope but not more than 5% slope unless otherwise noted. All pavements within ADA parking areas shall not exceed 2% total slope. All grades around building shall be held down 6" from finish floor and slope away another 6" in 10 feet. Contractor shall notify engineer prior to final subgrade construction of any areas not within this slope requirement.
- TESTING AND INSPECTION: Owner's Independent Testing Laboratory (ITL) shall make tests of earthwork during construction and observe the placement of fills and other work performed on this project to verify that work has been completed in accordance with Geotechnical Engineering Report, Project Specifications and within industry standards. The ITL will be selected by the owner and the cost of testing will be the owner's responsibility.
- 11. CLASSIFICATION: All excavation shall be considered unclassified. No separate or additional payments shall be made for rock
- PERMANENT RESTORATION: All areas disturbed by earthwork operations shall be sodded, unless shown otherwise by the landscaping plan or erosion control plan.
- 13. UTILITIES: The contractor is specifically cautioned that 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 call the appropriate utility companies at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.
- 14. LAND DISTURBANCE: The contractor shall adhere to all terms & conditions as outlined in the EPA or applicable state N.P.D.E.S. permit for storm water discharge associated with construction activities. Refer to project S.W.P.P.P. requirements.

Earthwork Summary SUMMIT FAIR LOT 10-E 5/9/2024

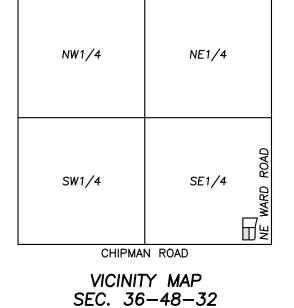
10 Cu. Yds. Raw Excavation -582 Cu. Yds. In Place Compaction (+15%) 538 Cu. Yds. (assume 10" of additional excavation) Pavement Adjustment 147 Cu. Yds. (assume 24" of additional excavation) **Building Adjustment** 113 Cu. Yds. On Site Net

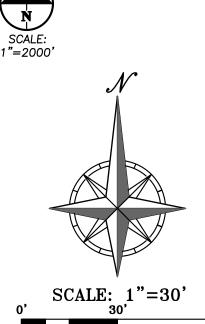
* EARTHWORK COMPUTATIONS BY PHELPS ENGINEERING, INC. ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED BY CONTRACTORS BY THEIR CHOSEN METHOD PRIOR TO PLACING BID. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED. 15% WAS ADDED INTO RAW FILL QUANTITY TO ACCOUNT FOR SHRINKAGE

- - R/W- - RIGHT-OF-WAY 2' CURB & GUTTER **— —**920**— —** EXISTING CONTOURS — — 918— — PROPOSED CONTOURS 918----PROPOSED SPOT ELEVATION LIP OF GUTTER XXX.XX TOP OF CURB SIDEWALK MATCH EXISTING HIGH POINT LOW POINT TOP OF PAVEMENT TOP OF STRUCTURE GROUND ELEVATION BOTTOM OF STEPS TOP OF STEPS

> TW TOP OF WALL EXISTING STORM SEWER PROPOSED STORM PIPE PROPOSED WET CURB & GUTTER PROPOSED DRY CURB & GUTTER

BOTTOM OF WALI





0





NEERING, INC. Vinchester 1585 66061 93-1155

1270 N. Winche: Olathe, Kansas 66 (913) 393-115! Fax (913) 393-11

PLANNING ENGINEERIN IMPLEMENT

ANDY'S FROZEN CUSTARI 630 NW CHIPMAN ROAD LEE'S SUMMIT, MISSOURI

Revisions:

24 REVISED PER CITY COMMENTS AEB DAF

24 REVISED PER CITY COMMENTS AEB DAF

15 APPAIR

16 APPAIR

17 APPAIR

18 APPAIR

19 APPAIR

19 APPAIR

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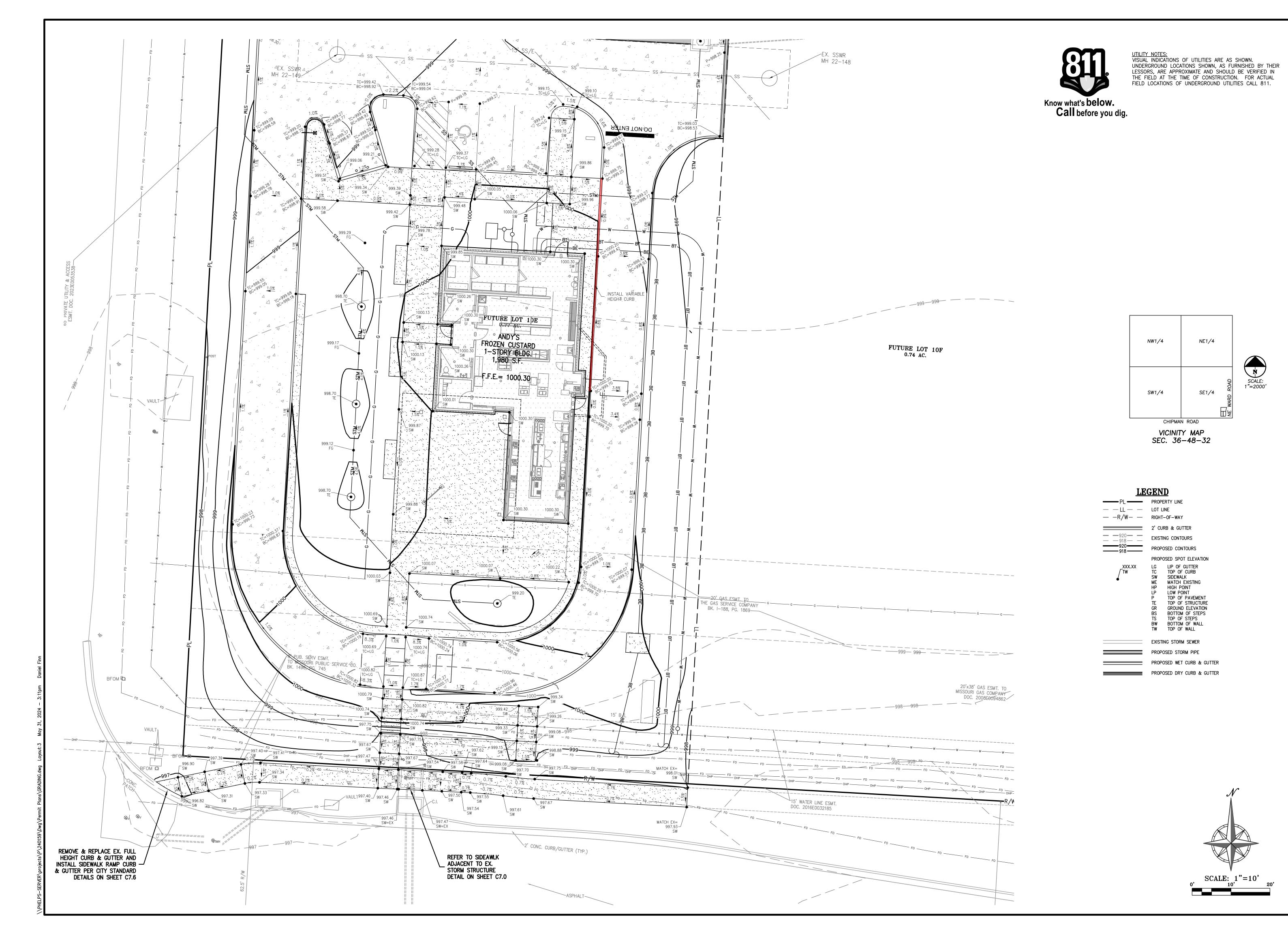
16 APPAIR

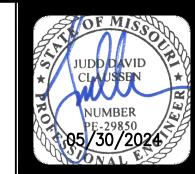
17 APPAIR

18 APPAIR

CHECKED: DAF | APPROVED: JDC 2. 05–30–
CERTIFICATE OF AUTHORIZATION
KANSAS
LAND SURVEYING – LS–82
ENGINEERING – E–391
CERTIFICATE OF AUTHORIZATION
MISSOURI
LAND SURVEYING-2007001128

SHEET C2.1





INEERING, INC.
Vinchester
nsas 66061
s93-1155

1270 N. Winche Olathe, Kansas 6 (913) 393-115 TON Fax (913) 393-1

> PLANNING ENGINEERIN

ANDY'S FROZEN CUSTARD 630 NW CHIPMAN ROAD LEE'S SUMMIT, MISSOURI

Revisions:

24 REVISED PER CITY COMMENTS AEB DAF

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AEB DAF

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CHECKED: DAF APPROVED: JDC 2. 05–30–20

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CERTIFICATE OF AUTHORIZATION
KANSAS

LAND SURVEYING – LS–82

ENGINEERING – E–391

CERTIFICATE OF AUTHORIZATION
MISSOURI
LAND SURVEYING–2007001128

FINGINFERING–2007001128

SHEET C2.2

UTILITY KEY NOTES:

- PROPOSED 6" INTERNAL ROOF DRAIN CONNECTION. (RE: MEP PLANS). CONNECT TO INTERNAL ROOF DRAIN AND INSTALL UNDERGROUND SECONDARY STORM LINE.
- D2 INSTALL PRIVATE 18" NYOPLAST INLET DRAIN W/ STANDARD GRATE (SEE SHEET C7.3 FOR DETAIL). SHEET C7.3 FOR DETAIL).
- INSTALL HDPE SECONDARY STORM LINE AT 1.0% MINIMUM SLOPE D3 INSTALL HDPE SECONDARY STORM LINE AT 1.0% MINIMUM SLOPE MAINTAINING 12" MINIMUM COVER (TYP). SEE SHEET C5.1 FOR TOP ELEVATIONS AND FLOWLINES.
- FOLLOW ELECTRIC COMPANY WORK ORDER AND SPECIFICATIONS FOLLOW ELECTRIC COMPANY WORK ORDER AND SPECIFICATIONS FOR PRIMARY ELECTRICAL SERVICE ROUTING AND CONNECTION
- INSTALL CONCRETE TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH ELECTRIC COMPANY PRIOR TO E2 CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD AND CONDUIT AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY.
- ELECTRIC ENTRY INTO BUILDING. FOLLOW ELECTRIC COMPANY REQUIREMENTS (RE: BUILDING ELECTRIC PLAN.)
- CONTRACTOR TO INSTALL CONDUITS TO MENU BOARD & (E4) MONUMENT SIGN (RE: BUILDING ELECTRICAL PLANS FOR POWER REQUIREMENTS)
- GAS ENTRY WITH GAS METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYING OF INDIVIDUAL METER. SIZE OF GAS MAIN SHALL BE AS DETERMINED BY UTILITY OR AS SHOWN ON BUILDING PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE & INSTALLATION OF GAS SERVICE LINE.
- CONTRACTOR TO COORDINATE 1" TAP ON EXISTING 12" MAIN VIA CORPORATION STOP FOR SOFT TYPE "K" COPPER DOMESTIC SERVICE LINE WITH CITY. THE CITY SHALL PERFORM THE TAP OF THE EXISTING MAIN. CONTACT CITY FOR TAPPING REQUIREMENTS. CONTRACTOR TO PAY ALL FEES FOR WATER MAIN TAP. OWNER WILL REIMBURSE CONTRACTOR FOR ACTUAL METER AND SYSTEM DEVELOPMENT FEES ASSESSED BY CITY.
- INSTALL 1" DOMESTIC WATER METER PIT PER CITY REQUIREMENTS. THE CITY SHALL PROVIDE THE METER, THE PIT, AND ALL OTHER MATERIALS NECESSARY FOR THE INSTALLATION. CONTRACTOR TO COORDINATE AND PAY ALL FEES. INSTALLATION BY THE CONTRACTOR'S PLUMBER SHALL BE IN ACCORDANCE WITH CITY STANDARDS. CONTRACTOR SHALL TRANSITION FROM 1" SOFT TYPE "K" COPPER DOMESTIC WATER LINE TO 2" SOFT TYPE "K" COPPER DOMESTIC WATER LINE DOWNSTREAM OF METER.
- 2" SOFT TYPE "K" COPPER DOMESTIC WATER LINE ENTRY TO BUILDING. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES (RE: BUILDING PLANS), GATE VALVES, REDUCERS, BENDS, TEES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH THE DEVELOPMENT SERVICES INSPECTOR. CONNECTION MADE BY A CORPORATION
- CONTRACTOR TO RELOCATE EX. PUBLIC FIRE HYDRANT OUTSIDE CONTRACTOR TO RELOCATE EX. PUBLIC FIRE HYDRANT OUTSIDE OF NEW SIDEWALK. ALL WORK TO BE COORDINATED WITH CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF BURIED TELEPHONE LINES. CONTRACTOR TO PROVIDE ONE (1) - 4" PVC SCH. 40 CONDUITS FROM BUILDING TO R/W. CONTRACTOR TO
- ROUTING AND FEED POINT WITH TELEPHONE COMPANY. CONNECT TO BLDG. INTERIOR PLUMBING SANITARY SEWER LINE. TRANSITION FROM 4" (INTERIOR) TO 6" (EXTERIOR) AT

TERMINATE IN QUAZITE BOX WITH PULL STRING FROM BUILDING TO TELEPHONE FEED POINT, CONTRACTOR TO VERIFY EXACT

- FG=1000.30 FL 6"=996.30 INSTALL 6 L.F. 6" PVC (SDR-26) SANITARY SEWER SERVICE LINE
- INSTALL 6"X6"X4" WYE CONNECTION.
 FG=1001.20
 FL=906 10

FOUNDATION WALL. (RE: MEP PLANS)

- INSTALL 47 L.F. 6" PVC (SDR-26) SANITARY SEWER SERVICE LINE @ 5.2% SLOPE. LINE @ 5.2% SLOPE.
- CONNECT TO EXISTING 6" PVC (SDR-26) SANTIARY SEWER STUB. \$5 FG AT EOS=998.95 FL 6" AT EOS=993.65
- CONNECT TO BLDG. INTERIOR PLUMBING GREASE LINE (RE: MEP PLANS) FG=1000.30
- (\$7) INSTALL 3 L.F. 4" PVC (SDR-26) GREASE LINE @ 3.3% SLOPE.
- INSTALL GB-75 SCHIER GREASE INTERCEPTOR (SEE SHEET C7.3 FOR DETAIL). TE=1000.20
- FL 4" IN = 996.20FL 4" OUT= 996.20

FL 4"=996.30

- (\$9) INSTALL 4 L.F. 4" PVC (SDR-26) GREASE LINE @ 2.5% SLOPE.
- (\$10) INSTALL SANITARY SEWER SAMPLING PORT (RE: MEP PLANS).
- ROUTE 3" VENT LINE FROM SAMPLING PORT TO BUILDING. (RE: MEP PLANS).
- S12 INSTALL SANITARY SEWER SHEET C7.2 FOR DETAIL) INSTALL SANITARY SEWER CLEAN OUT IN NON-PAVED AREA (SEE

UTILITY NOTES:

- 1. The contractor is specifically cautioned that 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 call the appropriate utility companies at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to coordinate with and relocate &/or remove all existing utilities which conflict with the proposed improvements shown on the plans.
- The construction of storm sewers on this project shall conform to the requirements of the City's Technical Specifications and Design Criteria.
- The contractor shall field verify the exact location and elevation of the existing storm sewer lines and the existing elevation at locations where the proposed storm sewer collects or releases to existing ground. If discrepancies are encountered from the information shown on the plans, the contractor shall contact the design engineer. No pipes shall be laid until direction is received from the design engineer.
- 4. It will be the contractors responsibility to field adjust the top of all manholes and boxes as necessary to match the grade of the adjacent area. Tops of existing manholes shall be raised as necessary to be flush with proposed pavement elevations, and to be 6-inches above finished ground elevations in non-paved areas. No separate or additional compensation will be made to the contractor for making final adjustments to the manholes and boxes.

NUMBER

05/30/2024

STARD ROAD SOURI

ANDY 630 LEE

SHEET

- Inlet locations, horizontal pipe information and vertical pipe information is shown to the center of the structure. Deflection angles shown for storm sewer pipes are measured from the center of curb inlets and manholes. The contractor shall adjust the horizontal location of the pipes to go to the face of the boxes. All roof drains shall be connected to storm sewer structures. Provide cleanouts on roof drain lines at 100' max. Spacing and at all bend points. Do not connect roof drains directly to storm sewer pipe.
- 6. The contractor shall be responsible for furnishing and installing all fire and domestic water lines, meters, backflow devices, pits, valves and all other incidentals required for a complete operable fire protection and domestic water system. All costs associated with the complete water system for the buildings shall be the responsibility of the contractor. All work shall conform to the requirements of City.
- 7. The contractor shall be responsible for furnishing and installing all sanitary sewer service lines from the buildings to the public line. All work shall conform to the requirements of the City.
- 8. The contractor will be responsible for securing all permits, bonds and insurance required by the contract documents, City, and all other governing agencies (including local, county, state and federal authorities) having jurisdiction over the work proposed by these construction documents. The cost for all permits bonds and insurance shall be the contractors responsibility and shall be included in the bid for the work.
- By the use of these construction documents the contractor hereby agrees that he/she shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses or damages related to the
- 10. The Contractor shall be responsible for furnishing all materials, tools and equipment and installation of electrical power, telephone and gas service from a point of connection from the public utility lines to the building structures. This will include all conduits, service lines, meters, concrete pads and all other incidentals required for a complete and operational system as required by the owner and the public utilities. Refer to building plans for exact tie—in locations of all utilities. Contractor shall verify connection points prior to installation of utility line.
- 11. All fill material is to be in place, compacted, and consolidated before installation of proposed utilities. On—site geotechnical engineer shall provide written confirmation that this requirement has been met and that utilities may proceed in the fill areas. All utilities are to be placed in trench conditions.
- 13. Water lines shall be as follows (unless otherwise shown on plans):
- A. Pipe sizes less than 3-inches that are installed below grade and outside building shall comply with the following: 1. Seamless Copper Tubing: Type "K" soft copper, ASTM B88.

12. Contractor shall notify the utility authorities inspectors 48 hours before connecting to any existing line.

- 2. Fittings: Wrought copper (95_5 Tin Antimony solder joint), ASME B 16.22.
- B. Pipe sizes 3-inches Through 48-inches that are installed below grade and outside building shall comply with one of the following: 1. Gray Cast Iron Water Pipe: ANSI A21.6, thickness class 52.
- a. Fittings: Either mechanical joint or push_on joint, AWWA C110 or AWWA C111. b. Elastomeric gaskets and lubricant: ASTM F477.
- c. Cement Mortar Lining, AWWA C104 2. Ductile Iron Water Pipe: AWWA C151, thickness class 50.
- a. Fittings: Either mechanical joint or push_on joint, AWWA C110 or AWWA C111.
- b. Elastomeric gaskets and lubricant: ASTM F477. c. Cement Mortar Lining, AWWA C104
- 3. Polyvinyl Chloride (PVC) Water Pipe: Pipe, AWWA C900, rated DR 18 (Class 150), continually marked as required.
- a. Elastomeric gaskets and lubricant: ASTM F477 for smaller pipes. b. Pipe joints: Integrally molded bell ends, ASTM D3139.
- c. Trace wire: Magnetic detectable conductor, (#12 Copper) brightly colored plastic covering imprinted with "Water Service" in large letters
- 14. Minimum trench width shall be 2 feet.
- 15. Contractor shall maintain a minimum of 42" cover on all waterlines. All water line joints are to be mechanical joints with thrust blocking as called out in specifications and construction plans. Water mains and service lines shall be constructed in accordance to waterone's specifications for commercial
- 16. All waterlines shall be kept min. ten (10') apart (parallel) from sanitary sewer lines or manholes. Or when crossing, an 24" vertical clearance (outside edge of pipe to outside edge of pipe) of the water line above the sewer line is required.
- 17. Sanitary conflicts will be resolved prior to permit issuance.
- 18. In the event of a vertical conflict between waterlines, sanitary lines, storm lines and gas lines (existing and proposed), the sanitary line shall be ductile iron pipe with mechanical joints at least 10 feet on both sides of crossing (or encased in concrete this same distance), the waterline shall have mechanical joints with appropriate thrust blocking as required to provide a minimum of 24" clearance. Meeting requirements of ANSI A21.10 or ANSI 21.11 (AWWA C-151) (CLASS 50).
- 19. All underground storm, sanitary, water and other utility lines shall be installed, inspected and approved before backfilling. Failure to have inspection approval prior to backfill will constitute rejection of work.
- 20. 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. Contractor shall coordinate with all utility companies for installation requirements and specifications.
- 21. Refer to building plans for site lighting electrical plan, irrigation, parking lot security system and associated conduit requirements. Coordinate with Owner that all required conduits are in place & tested prior to paving.
- 22. When a building utility connection from site utilities leading up to the building cannot be made immediately, temporarily mark all such site utility
- 23. Refer to the building plans for site lighting electrical requirements, including conduits, pole bases, pull boxes, etc.

(816) 969-1800

UTILITY COMPANIES:

STORM SEWER (PUBLIC WORKS DEPARTMENT)

1200 SE HAMBLEM ROAD,

9444 NALL AVENUE

OVERLAND PARK, KANSAS 66207

MISSOURI GAS ENERGY (816) 969-2218 LUCAS WALLS (LUCAS.WALLS@SUG.COM) 3025 SOUTHEAST CLOVER DRIVE LEE'S SUMMIT, MO 64082

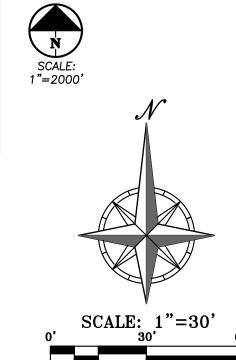
(816) 347-4339 PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM) RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM) (816) 347-4316 1300 HAMBLEN ROAD LEE'S SUMMIT, MO 64081

220 SE GREEN STREET LEE'S SUMMIT, MO 64063 SANITARY SEWER & WATER (WATER UTILITIES DEPT.) (816)-969-1900

LEE'S SUMMIT, MO 64081 AT&T (913) 383-4929 MR. CLAYTON ANSPAUGH (CA4089@ATT.COM) (913) 383-4849-FAX

> NE1/4 SW1/4 SE1/4

> > CHIPMAN ROAD VICINITY MAP SEC. 36-48-32



LEGEND

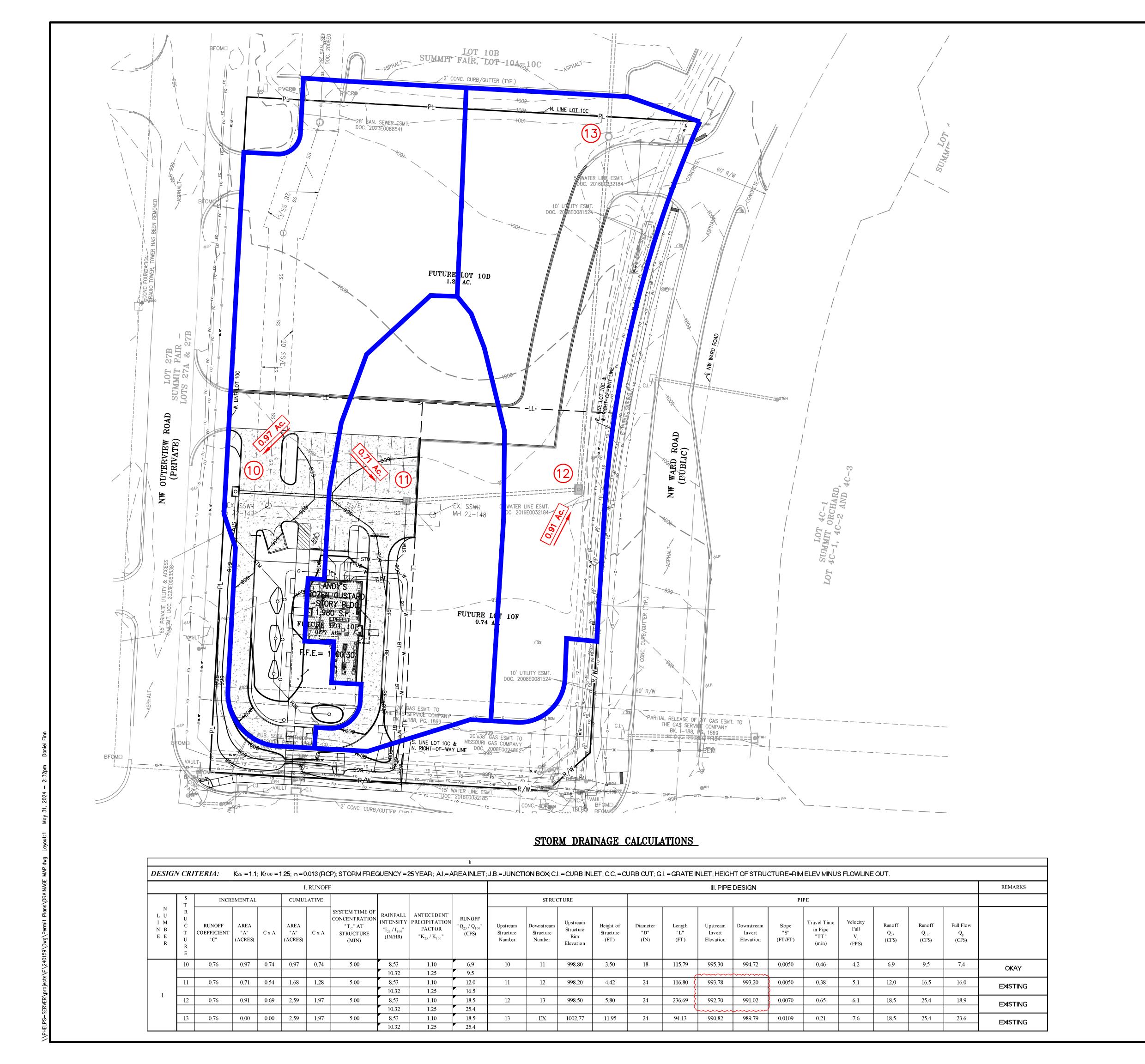
——PL——	PROPERTY LINE
- $ LL$ $ -$	LOT LINE
- -R/W- $-$	RIGHT-OF-WAY
CATV	EXISTING CABLE TELEVISION
FO	EXISTING FIBER OPTIC LINE
G	EXISTING GAS LINE
BE	EXISTING BURIED ELECTRIC I
OHP	EXISTING OVERHEAD POWER
OHT	EXISTING OVERHEAD TELEPH
ss	EXISTING SANITARY SEWER I

===24"HDPE=== EXISTING STORM SEWER LINE (& SIZE) -----BT------ EXISTING BURIED TELEPHONE LINE ————w—6"— EXISTING WATER LINE (& SIZE)

24"HDPE PROPOSED STORM SEWER LINE (& SIZE)

Know what's below.

Call before you dig.



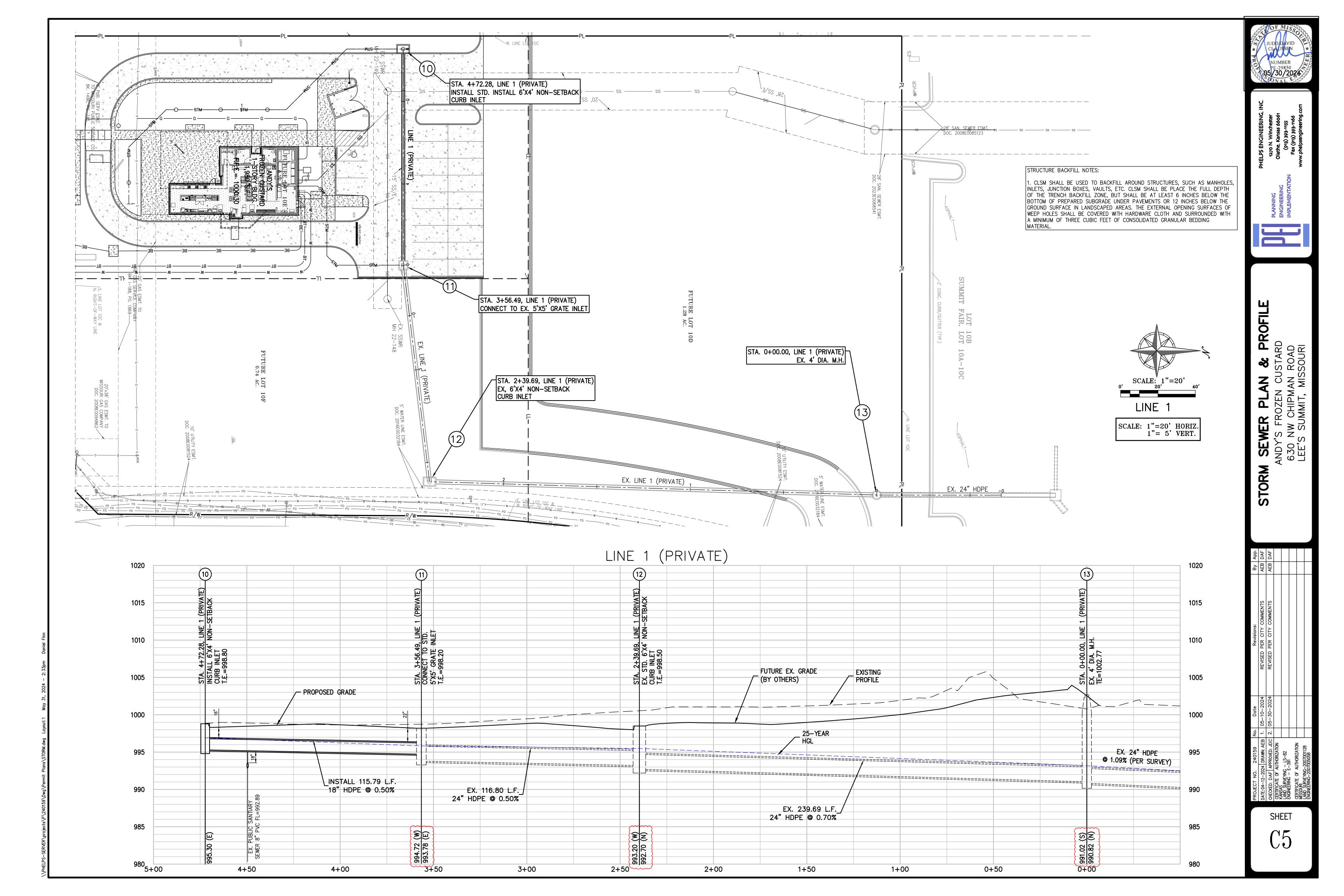


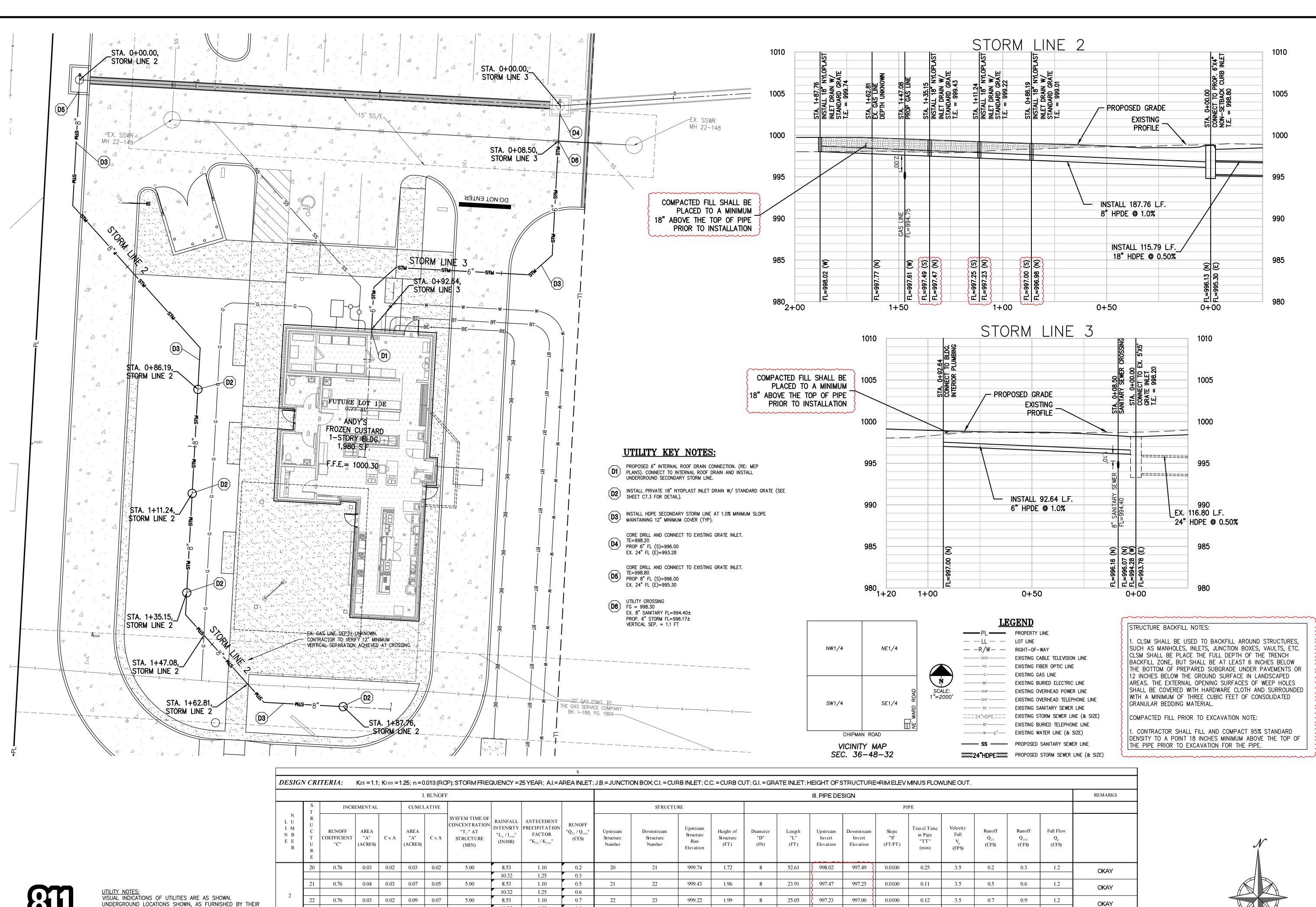
LEGEND ---XXX--- EXISTING CONTOURS XXX PROPOSED CONTOURS DENOTES DRAINAGE AREA DENOTES FLOW DIRECTION DENOTES DRAINAGE AREA TO STRUCTURE

DENOTES STRUCTURE NUMBER



A STATE OF THE PARTY OF THE PAR	PROJECT NO. 240159		No.	Date	
ır	DATE:04-12-2024 DRAWN: AEB 1. 05-10-2024	AEB	 -	05-10-2024	REVISED
	CHECKED: DAF APPROVED: JDC 2. 05-30-2024	200	2.	05-30-2024	REVISED
	CERTIFICATE OF AUTHORIZATION	8			
	LAND SURVEYING - LS-82				
	EINGINEERIING — E—CSI				
	CERTIFICATE OF AUTHORIZATION MISSOURI	₹ -			
	LAND SURVEYING-2007001128	⊥_ ∞	T		





10.32

8.53

10.32

8.53

10.32

1.10

1.25

1.10

0.04 | 0.03 | 0.13

0.05 | 0.03 | 0.05 |

0.76

0.10

0.03

5.00

0.9

0.3

30

PROP CURB INLET 999.01

EX GRATE INLET N/A

N/A

86.19

92.64

996.98

997.00

996.07

0.41

0.53

0.3

2.9

0.4

0.6

0.0100

05/30/2024

COND, ANDY'S 630 N LEE'S

SHEET

OKAY

OKAY

Know what's below. Call before you dig.

<u>UTILITY NOTES:</u> VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN. UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

EROSION AND SEDIMENT CONTROL GENERAL NOTES:

- -Install and request the inspection of the preconstruction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until t here is a satisfactory inspection. -Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, placement of physical
- 2. Erosion and sediment control devices protecting the public right—of—way shall be installed as soon as the right—of—way has been backfilled and graded.
- -The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days. -The contractor shall perform inspections of erosion and sediment control measures at least once a every 14 days and within 24 hours following each rainfall event
- -The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The log shall be available for review by the City, the State of Missouri, or other authorities having jurisdiction.
- 4. The contractor shall maintain installed erosion and sediment control devices on a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, tree preservation areas of the site intended to be left undisturbed, a storm sewer, or an on—site drainage channel. Failure to do so is a violation of the provisions of City Ordinances and State permit requirements.
- 5. The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMP's in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.
- 6. Concrete wash or rinsewater from concrete mixing equipment, tools and/or ready—mix trucks, tools, etc., may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place and excess water evaporated or infiltrated into the ground.
- 7. Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials store outside must be in closed and sealed water—proof containers and located outside of drainageways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.

MAINTENANCE: ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLANATION, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

STAGING CHART

			SIAG	JING CHARI	
	Project Stage	Order	BMP Description	Remove after Stage:	Notes:
_	A. Prior to Land Disturbance	1	Sediment Fence	D	Place downstream project site perimeter. (APWA ESC-10)
Phase	and During Construction.	2	Constr Entrance & Staging Area	D	Maintain during all construction. Include concrete washout. (APWA ESC-01)
ā		3	Inlet Protection at Existing Inlets	D	Install inlet protection. (APWA Details ESC-06 & ESC-07)
Phase II	B. Mass Grading & Utility Installation	4	Inlet Protection at Proposed Inlets	D	Install inlet protection. (APWA Details ESC-06 & ESC-07)
Phase III	C. Final Stabilization Prior to closure of Land Disturbance Permit		Final Stabilization	N/A	Seed all disturbed areas to establish final stabilization.

LEGEND STABILIZED ROCK ENTRANCE • • • • • • • • LIMITS OF DISTURBED AREA PROPOSED SILT FENCE INLET PROTECTION -PRIOR TO PAVING USE SILT FENCE INLET

PROTECTION WITH WIRE SUPPORT

-AFTER TO PAVING USE GRAVEL FILTER BAGS

DISTURBED AREA = 0.8± ACRES

NE1/4 SW1/4 SE1/4

1"=2000'

CHIPMAN ROAD VICINITY MAP SEC. 36-48-32



1. Prior to Land Disturbance activities, the contractor shall:

-Delineate the outer limits of any tree or stream preservation designated to remain with construction fencing. -Construct a stabilized entrance/parking/delivery area and install all perimeter sediment controls on the site.

barriers or other means acceptable to the contractor and the City inspector.

3. The contractor shall comply with all requirements of City Ordinances or State permit requirements, such as:

of ½" or more within any 24-hour period

PERMIT. WHICHEVER IS MORE STRINGENT. AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS

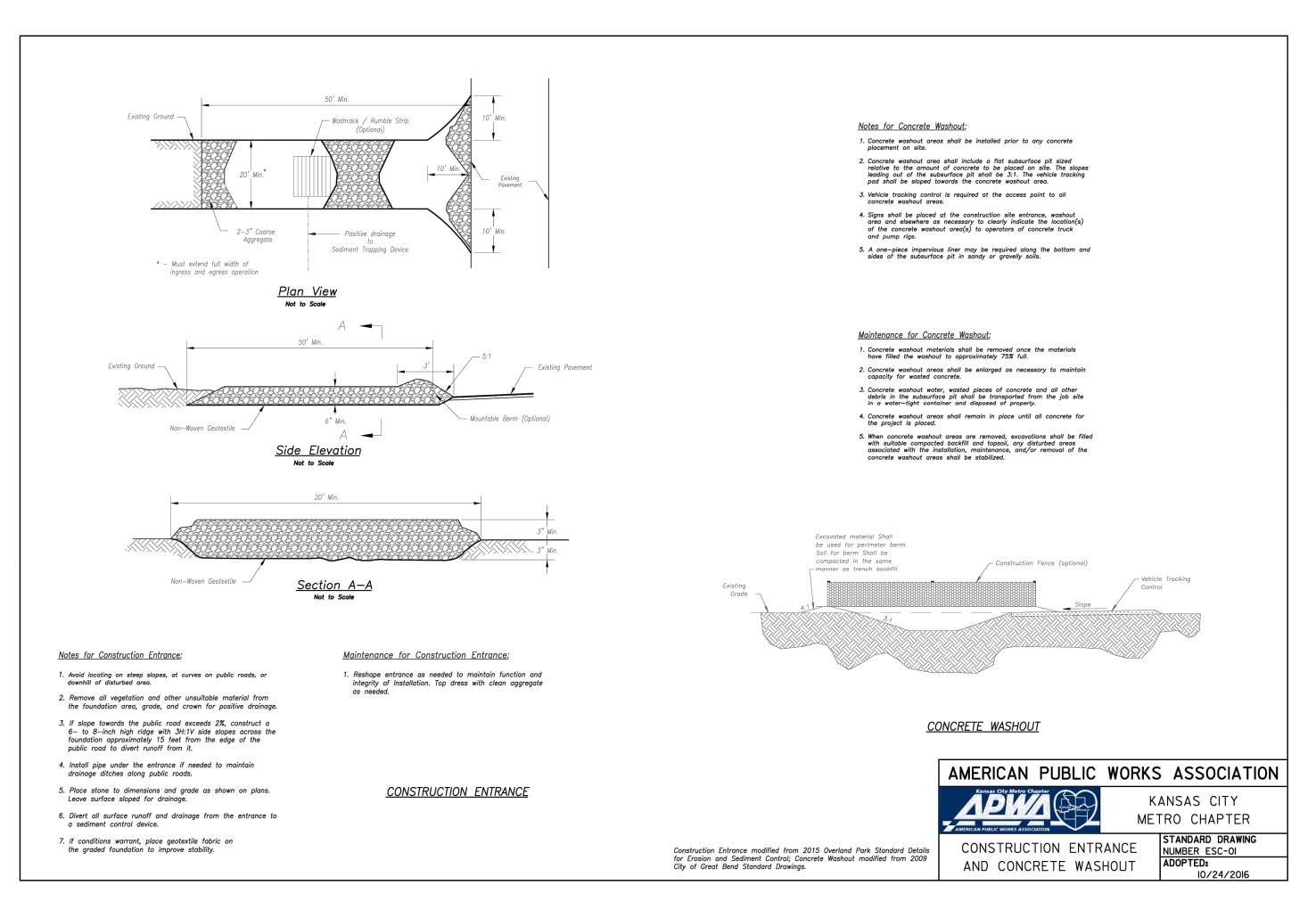
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES

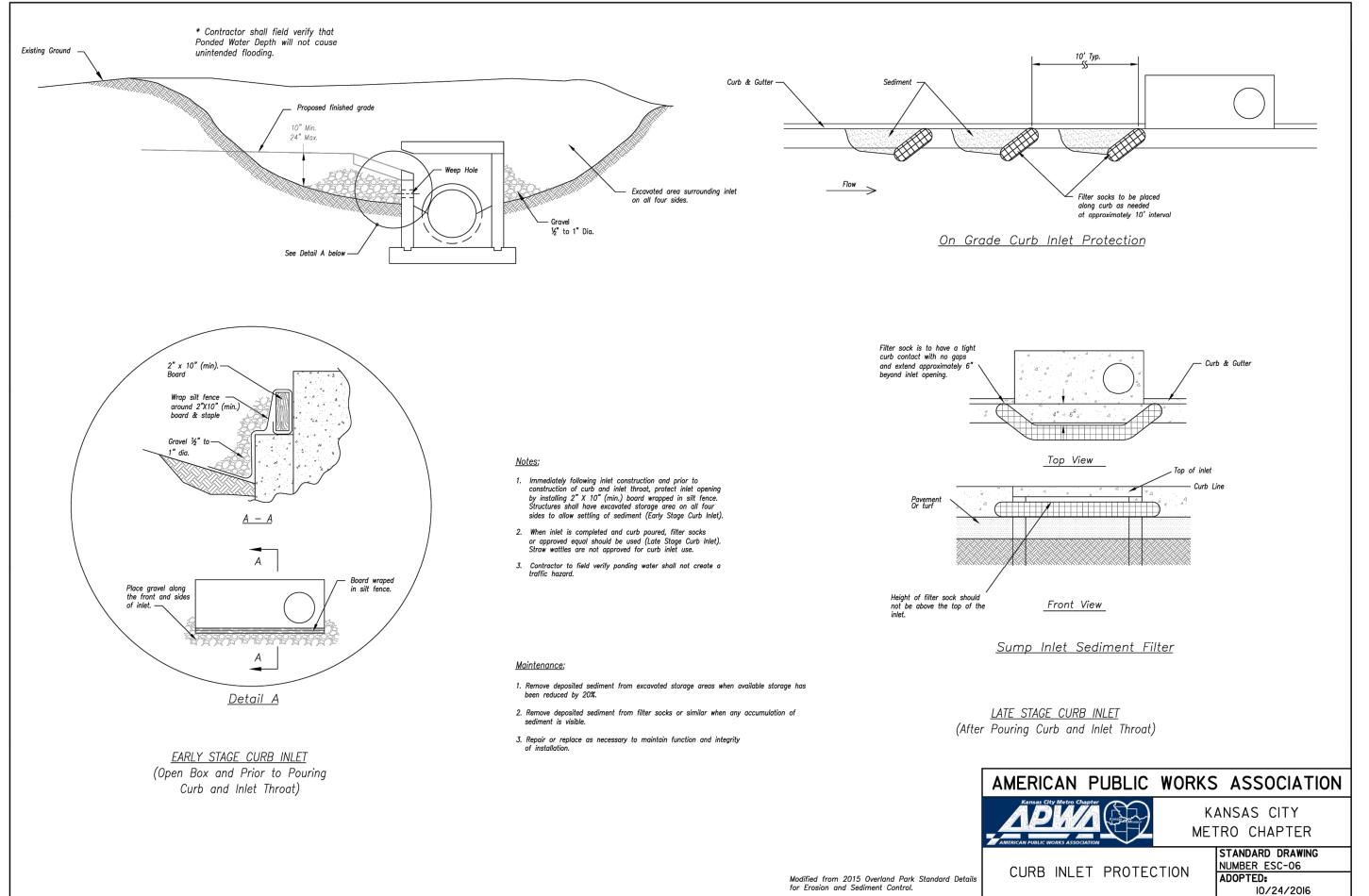
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP

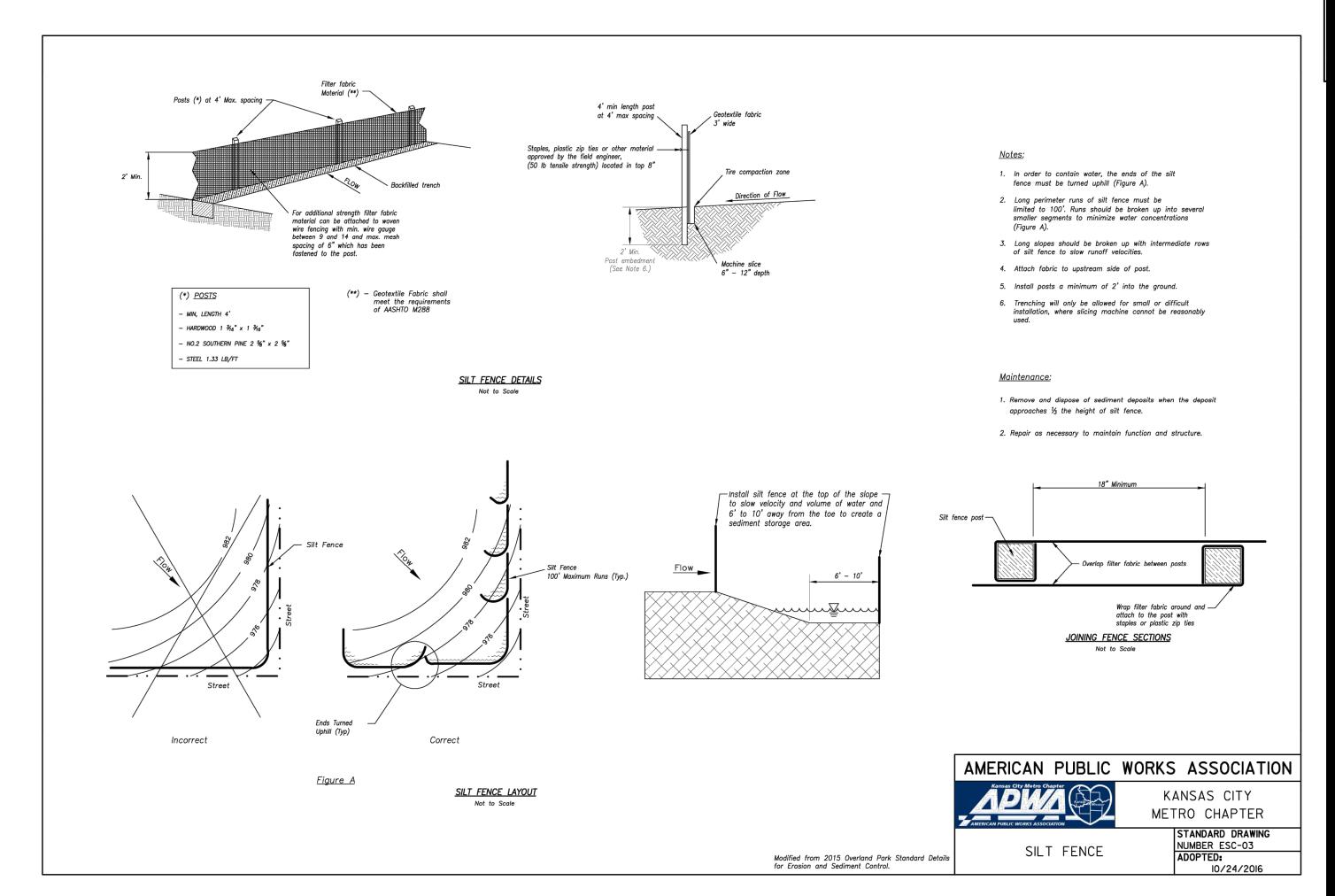
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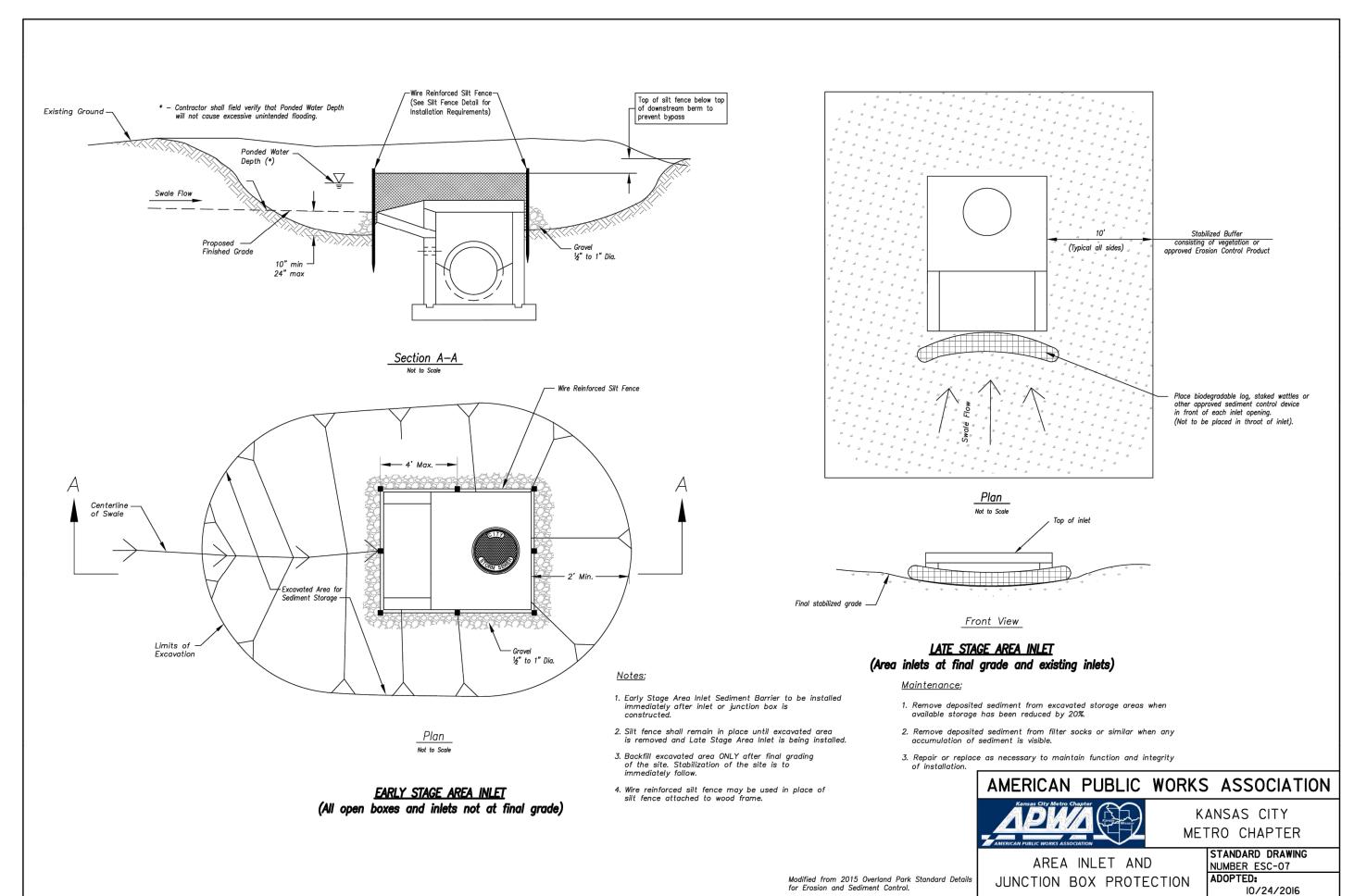
UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

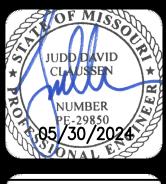
Know what's below. Call before you dig.











ELPS ENGINEERING, INC.
1270 N. Winchester
Olathe, Kansas 66061
(913) 393-1155
Fax (913) 393-1166

NNING
1270 N. WI
INEERING
(913) 39
LEMENTATION
Fax (913) 39

PLANNING

EROSION CONTROL DETAIL
ANDY'S FROZEN CUSTARD

 No.
 Date
 Revisions:
 By App.

 EB 1.
 05-10-2024
 REVISED PER CITY COMMENTS
 AEB DAF

 DC 2.
 05-30-2024
 REVISED PER CITY COMMENTS
 AEB DAF

C6.1

SHEET 7

GENERAL PAVING NOTES:

1. PRIOR TO PLACEMENT OF GRANULAR BASE OR ASPHALT, PROOF ROLL AND RE-COMPACT THE EXPOSED SURFACES UP TO A MINIMUM LATERAL DISTANCE OF TWO (2) FEET OUTSIDE THE PAVEMENT. ANY LOCALIZED SOFT, WET, OR LOOSE AREAS IDENTIFIED DURING THE PROOF ROLLING SHOULD BE REPAIRED PRIOR TO PAVING. FILL MATERIAL SHOULD BE PLACED IN LOOSE LIFTS UP TO A MAXIMUM OF EIGHT (8) INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 AT MOISTURE CONTENTS WITHIN 0% AND +4% OF THE OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF GREATER THAN 40, AND - +/- 3% OF THE OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40. MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHOULD BE DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D 698).

2. PROOFROLL WITH A 25 TON RUBBER TIRE VEHICLE AND REPAIR SUBGRADE DEFICIENCIES. IF ANY SIGNIFICANT EVENT, SUCH AS PRECIPITATION, OCCURS AFTER PROOFROLLING, THE SUBGRADE SHOULD BE REVIEWED BY QUALIFIED PERSONNEL IMMEDIATELY PRIOR TO PLACING THE PAVEMENT.

QUALIFIED PERSONNEL IMMEDIATELY PRIOR TO PLACING THE PAVEMENT.

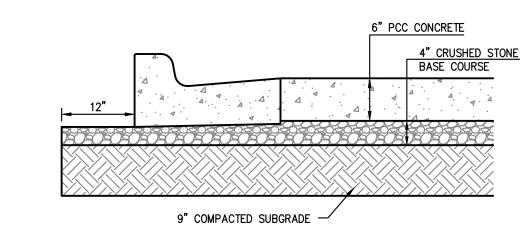
3. CRUSHED STONE BASE COURSE USED BENEATH CONCRETE PAVING SHALL BE COMPACTED AB—3 OR EQUIVALENT.

4. ALL SITE CONCRETE (CURBS, PAVEMENTS, SIDEWALKS, ETC.) SHALL MEET KANSAS CITY MATERIALS METRO BOARD (KCMMB) MIX DESIGN SPECIFICATIONS FOR 4,000 P.S.I. AIR ENTRAINED CONCRETE.

 IN NEW PAVEMENT AREAS, CONTRACTOR SHALL OVER EXCAVATE AS REQUIRED TO ESTABLISH NEW COMPACTED SUBGRADE ELEVATIONS.

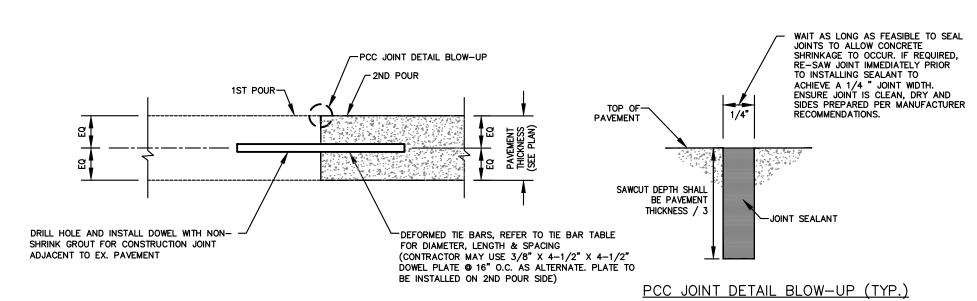
6. CONTRACTOR IS RESPONSIBLE FOR ALL PAVEMENT AND SUBGRADE MATERIALS TESTING

7. FIBER REINFORCEMENT SHALL BE USED IN ALL CONCRETE CURB AND CONCRETE FLATWORK (SIDEWALKS, PAVEMENTS, ETC). ALL FIBERS SHALL BE ALKALI-RESISTANT, NATURAL CELLULOSE FIBERS AS MANUFACTURED BY "SOLOMON ULTRAFIBER 500", OR POLY PROPYLENE FIBRILLATED FIBERS AS MANUFACTURED BY "SIKA FIBERMESH-300", OR AN APPROVED EQUAL IN ADVANCE BY THE ENGINEER.



CONCRETE PAVING

PAVING SECTIONS
SCALE: N.T.S.



Slab depth, in.

8 (200)

Tie bar dimensions

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

Tiebar size, in.

1/2 x 24 (13 x 610)

/2 x 24 (13 x 610)

1/2 x 24 (13 x 610)

1/2 x 24 (13 x 610)

9 (230) 1/2 x 30 (13 x 760) 36 (910)

/2 x 24 (13 x 610)

5-1/2 (140) 1/2 x 24 (13 x 610)

6-1/2 (165) 1/2 x 24 (13 x 610)

8-1/2 (215) 1/2 x 24 (13 x 610)

CONSTRUCTION JOINT

in. (mm)[†] | length, in. (mm)[‡]

12 (300)

14 (360)

14 (360)

14 (360)

16 (400)

5 (125)

6 (150)

6 (150)

6 (150)

7 (180)

Dowel size

in. (mm)

5/8 (16)

3/4 (19)

7/8 (22)

1 (25)

1-1/8 (29)

[‡]Allowance made for joint openings and for minor errors in positioning dowels.

Slab depth, Dowel diameter,

*All dowels spaced at 12 in. (300 mm) centers.

in. (mm)

5 (125)

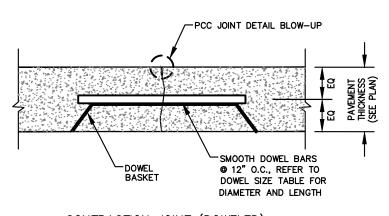
6 (150)

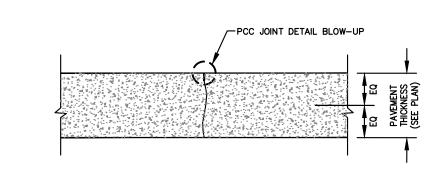
8 (200)

9 (230)

[†]On each side of joint.

7 (180)





CONTRACTION JOINT (UNDOWELED)

Tiebar spacing

Distance to nearest free edge or to nearest joint where

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

36 (910)

30 (760)

30 (760)

30 (760)

30 (760)

30 (760)

28 (710)

36 (910)

28 (710)

25 (630)

23 (580)

21 (530)

20 (510)

18 (460)

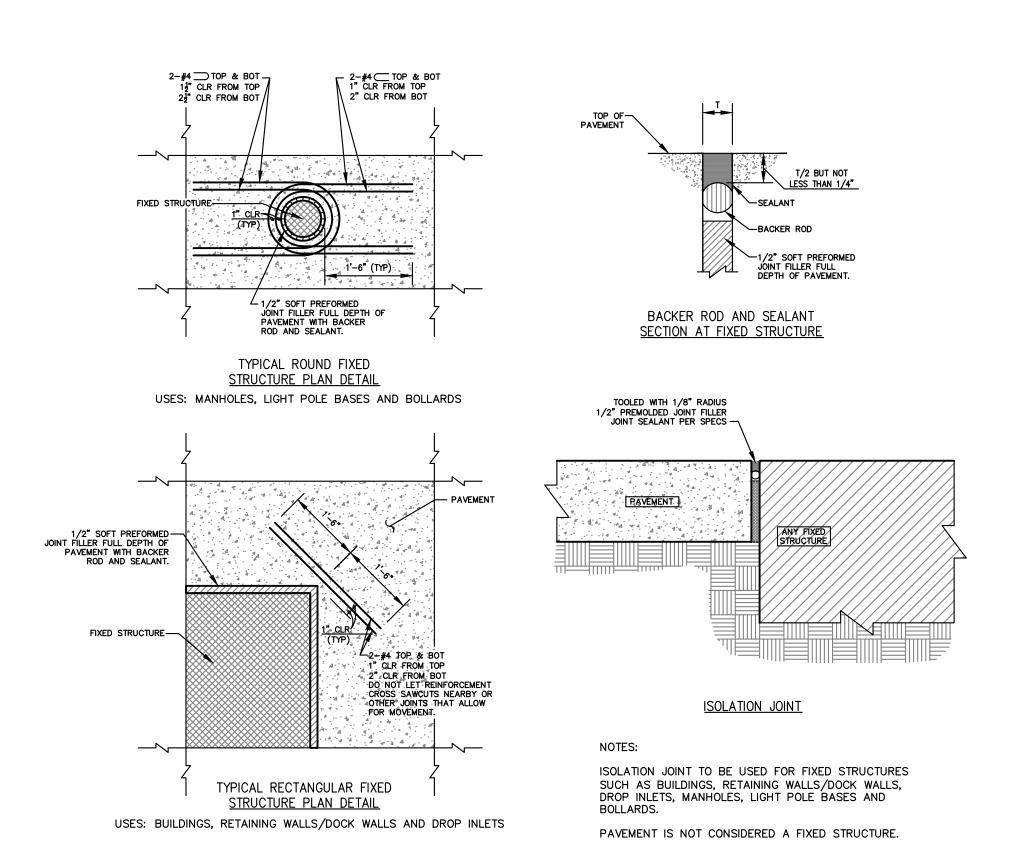
17 (430)

16 (410)

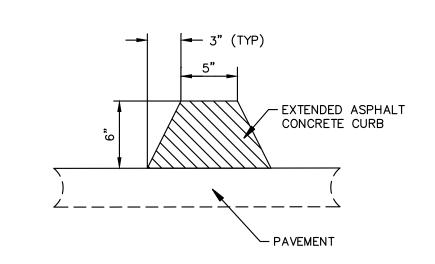
24 (610)

CONTRACTION JOINT (DOWELED)

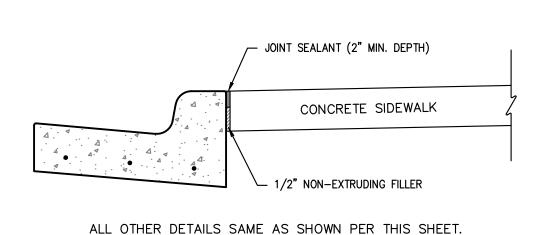
CONCRETE JOINT DETAILS
SCALE: N.T.S.



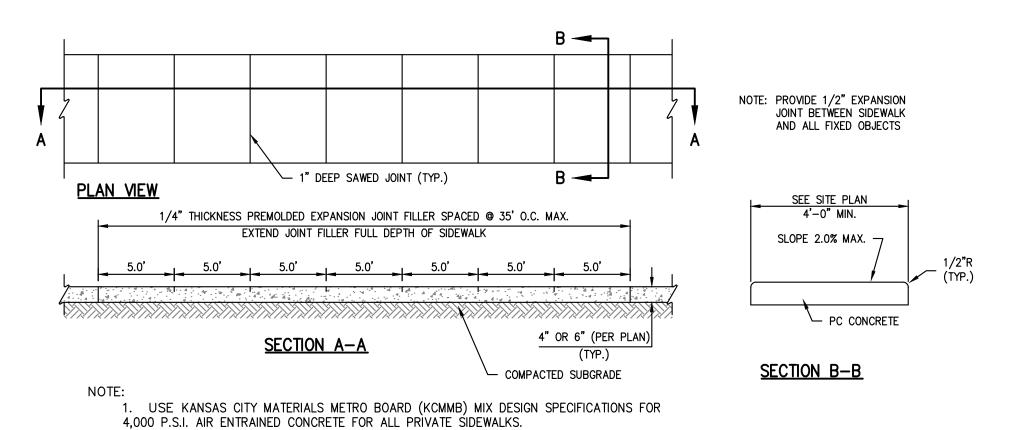
ISOLATION JOINT DETAILS SCALE: N.T.S.



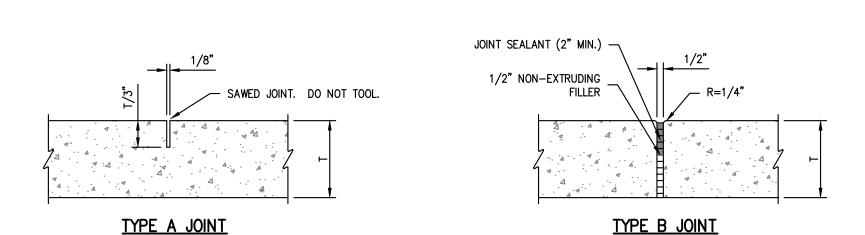
TEMPORARY ASPHALT CURB



SIDEWALK AT CURB DETAIL SCALE: N.T.S.

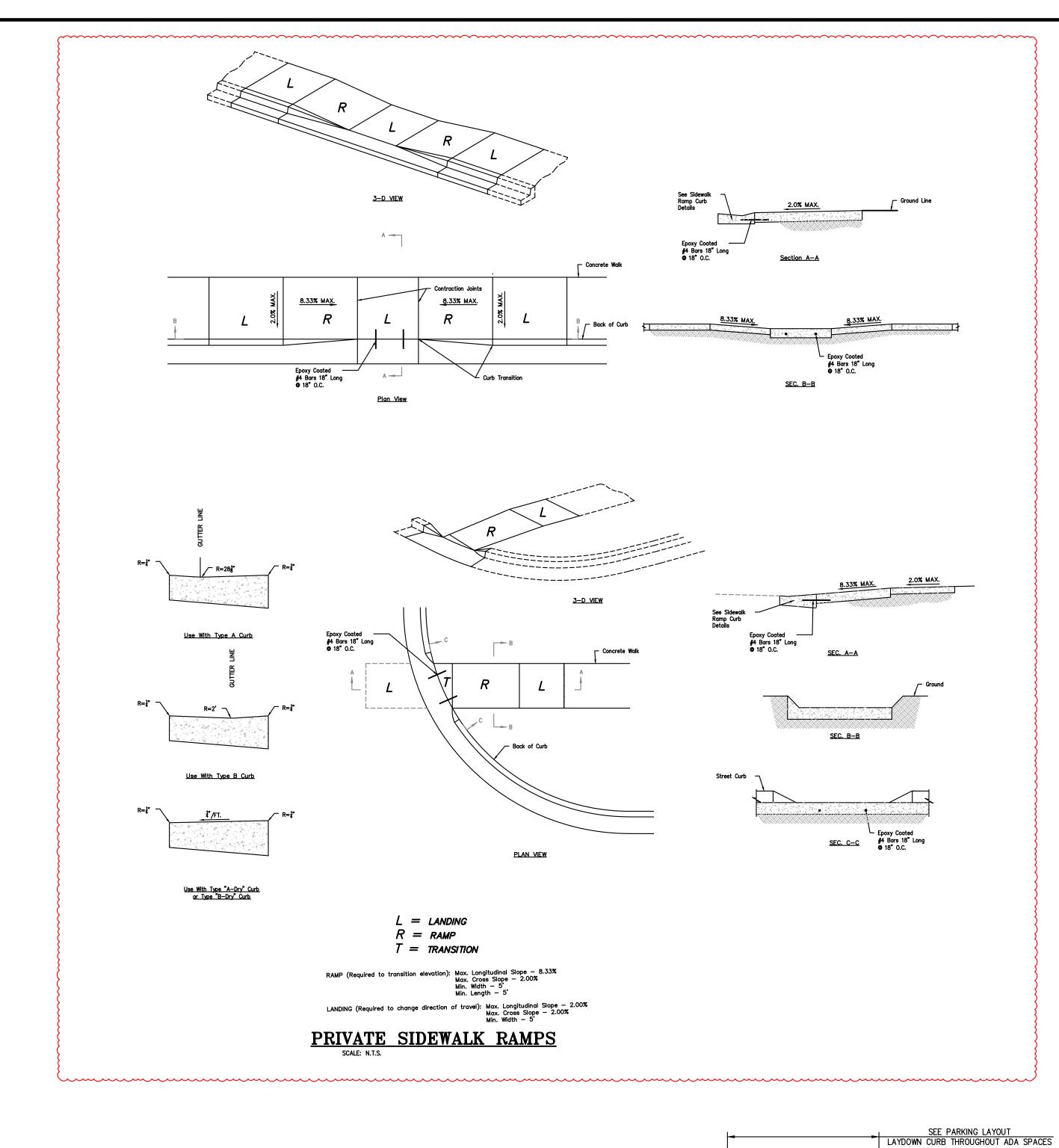


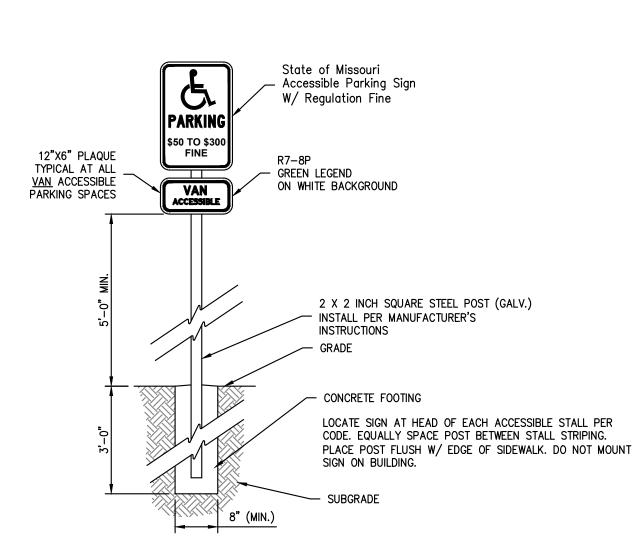
PRIVATE CONCRETE SIDEWALKS (NON REINFORCED) SCALE: N.T.S.



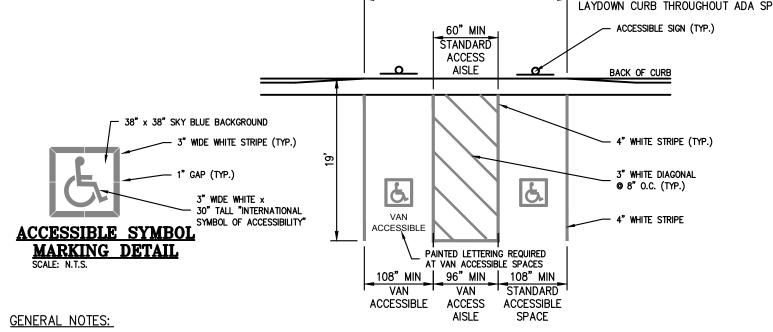
NOTE: TYPE A JOINTS SHALL NOT EXCEED 20 TIMES THE PAVEMENT THICKNESS (T).

CONCRETE SIDEWALK JOINT DETAILS
SCALE: N.T.S.



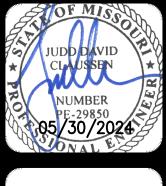






- ALL PAVEMENT MARKINGS SHALL BE APPLIED BY A QUALIFIED CONTRACTOR HAVING A MINIMUM 3 YEARS EXPERIENCE IN TRAFFIC GRADE PAVEMENT MARKING APPLICATIONS.
- 2. PAINT SHALL BE A NON-BLEEDING, QUICK-DRYING, ALKYD PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC-BEARING SURFACE AND SHALL MEET FS TTP-85E & MIXED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION.
- 3. SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL & DUST.
- 4. APPLY TWO (2) COATS OF PAINT AT MANUFACTURER RECOMMENDED RATE WITHOUT THE ADDITION OF THINNER, WITH A MAXIMUM OF 100 SQUARE FEET PER GALLON. APPLY WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. AT SIDEWALK, CURBS, AND CROSSWALKS USE A STRAIGHTEDGE TO ENSURE A UNIFORM, CLEAN, & STRAIGHT STRIPE.
- THE FOLLOWING ITEMS SHALL BE PAINTED WITH THE COLORS NOTED BELOW:
 A. HANDICAP SYMBOLS: SEE DETAIL THIS SHEET.
 B. PARKING STALL STRIPING: WHITE.
- ACCESSIBLE PARKING SPACE DESIGN LAYOUT SHALL BE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS. 7. SEE SITE PLANS FOR COMPLETE PARKING LAYOUT.

ACCESSIBLE PARKING SPACE DETAIL SCALE: N.T.S.



SHEET

CLEAN SAWCUT -

SCORED CONCRETE PAVEMENT

6" MINIMUM CONCRETE PAVEMENT

ASPHALT

WIDTH PER PLANS

CROSSWALK DETAIL
SCALE: N.T.S.

CLEAN SAWCUT

COMPACTED SUBGRADE

∠ ASPHALT

THESE DETAILS SHALL APPLY ONLY TO PRIVATE SEWER AND WATER SERVICE LINES

BACKFILL

UNDISTURBED XX

EARTH OR —

proper compaction.

other deleterious materials.

COMPACTED

12" MIN. O.D. 12" MIN

SANITARY SEWER

SCALE: NOT TO SCALE

Backfill shall not be placed when material contains frost, is frozen, or a blanket of snow prevents

All trash and debris shall be removed from the pipeline excavation prior to backfilling.

The Contractor shall remove from the project site waste material, trees, organic material, rubbish, or

Backfill material shall be carefully placed to avoid damage to or displacement of the pipe, other utilities

Unless otherwise specified, all trenches and excavations around structures shall be backfilled to the

Outside of paved areas, the backfill material shall be placed in layers not exceeding 8-inches in loose thickness and be compacted to at least 90% of maximum density. Compaction testing shall be at the

The combination of the thickness of the layer, the method of compaction and the type of compaction

equipment used shall be at the discretion of the Contractor subject to obtaining the required densities.

The first layer of bedding placed on the bottom of excavation shall be in accordance with Figures 1

The method of compaction and the equipment used shall be appropriate for the material to be

Pipe Embedment: All water, sanitary sewer, and storm sewer pipe shall be bedded in bedding aggregate as

Bedding at bottom of trench, in the middle 1/3 of trench under the pipe shall be loose.

4. After pipe is placed, bedding material shall be placed in layers in accordance with manufacturer's

5. Second layer of bedding material shall be placed under the lower haunches of the pipe up to the

The third layer of bedding material shall be placed to 12 inches over the top of pipe.

springline (center of pipe). Material shall be spaded to be place under haunches and compacted at the

Contractor shall take measures to prevent pipe from floating during placement of bedding material so

compacted and shall not transmit damaging shocks to the pipe.

springline elevation prior to placing additional bedding material.

that pipe maintains proper line and grade as shown on the Plans.

Bedding shall cover the entire width of trench.

recommendations.

BACKFILL

TRENCH BEDDING

SCALE: N.T.S.

UNDISTURBED XX

EARTH OR —

COMPACTED

12" MIN. O.D. 12" MIN

WATER LINE

SCALE: NOT TO SCALE

Sanitary Sewer Bedding Material Gradation Limits (% Passing)

REQUIREMENTS PER APWA 2100 AS FOLLOWS:

Type 2

0 – 15

0 – 5

Type 3 (Man. Sand) Type 4 (River Sand)

0 – 10

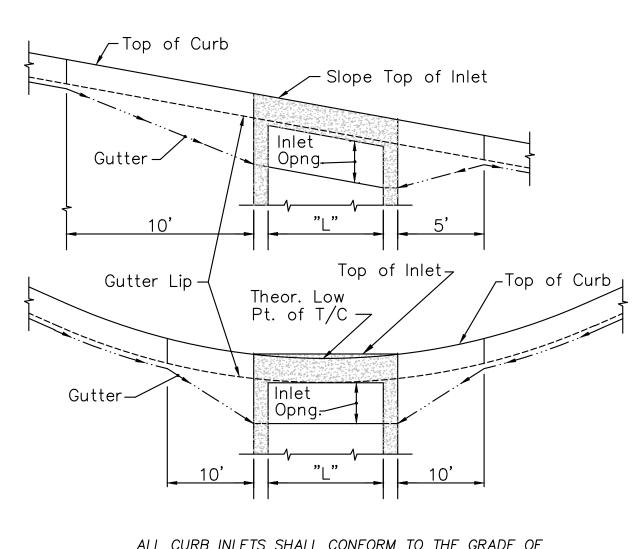
90 - 100

85 – 90

35 – 75

10 – 25

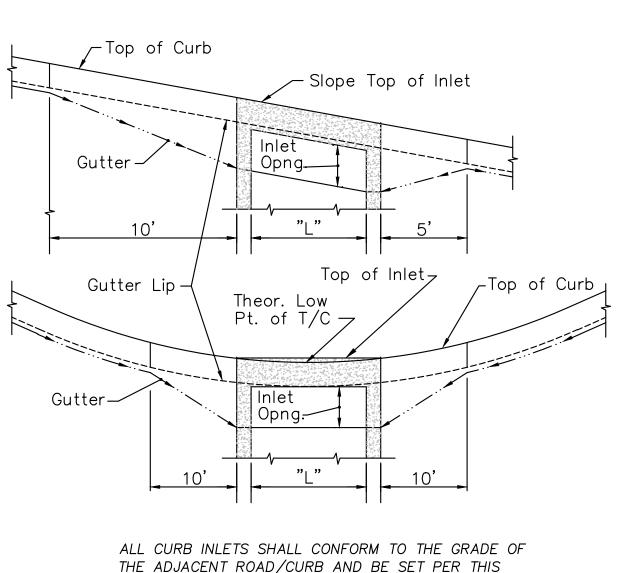
0 - 10



INLET SETTING DIAGRAM

ALL CURB INLETS SHALL CONFORM TO THE GRADE OF

DETAIL SHOWN THUS.





Non-Setback Curb Inlet Notes

All storm sewer structures shall be pre—cast or poured in place.
 If pre—cast structures are used for publicly financed, maintained

Pre—cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects.

Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction.

with either of these calculations greater than 20, a special

5. Concrete used in this work shall be KCMMB4K, as approved by the Kansas City Metropolitan Materials Board, and shall meet the requirements of the City of Olathe.

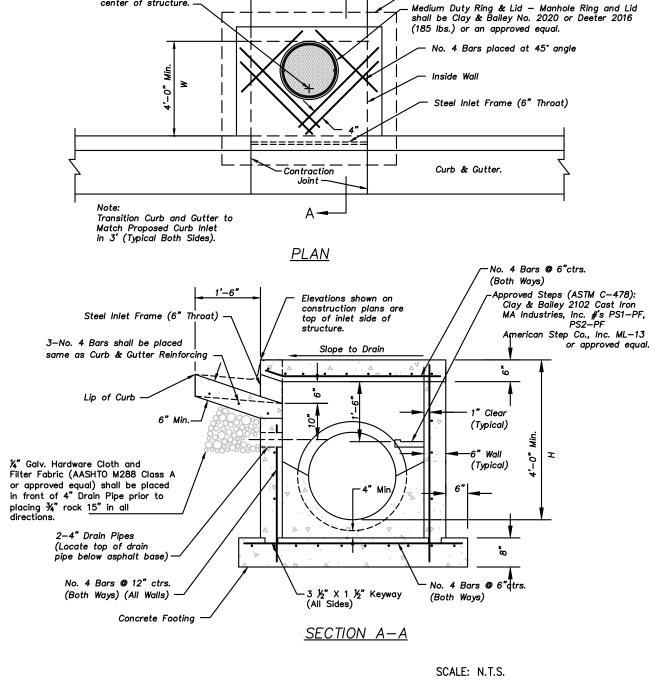
Concrete construction shall meet the applicable requirements of the City of Olathe's Technical Specifications.

8. Bevel all exposed edges with $\frac{3}{4}$ " triangular molding.

7. Inlet floors shall be shaped with non-reinforced concrete inv erts

4. The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The concrete thickness and reinforcement shown is for boxes with ("L"+"H") and ("W"+"H") less then or equal to 20. For boxes with the second control of the secon

or administered construction, the tops shall be poured in place and the wall steel shall be left exposed to a height 2" below the



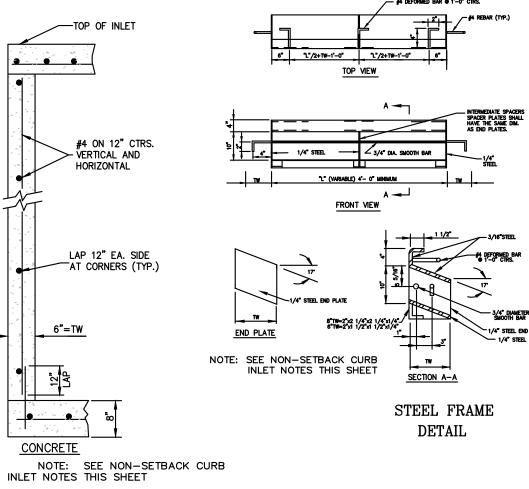
Locations shown on

construction plans are center of structure. -

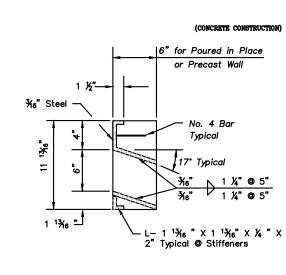
Reinforcing Steel Reinforcing steel shall be new billet, minimum Grade 40 as per ASTM A615, and shall be bent cold.

Outside Edge of Concrete Footing

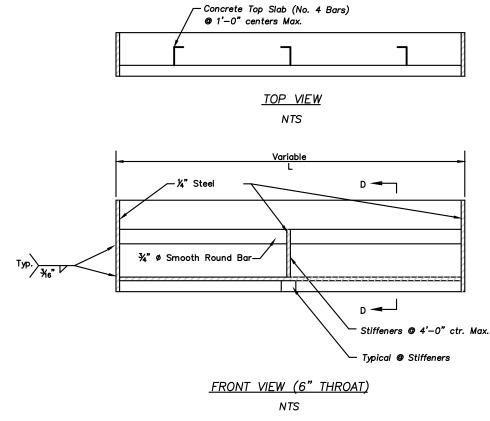
- 10. All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of $+/-\frac{1}{8}$ " shall be permitted.
- 11. All lap splices not shown shall be a minimum of 40 bar
- 12. All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
- 13. All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable. Construction
- 14. The bottom slab shall be at least 24 hours old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured before removal, and after removal shall be immediately treated with membrane 15. Pipe connections to pre—cast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the
- Material selection and compaction requirements for backfill around structures shall be as specified in City of Olathe's



WALL SECTIONS



SECTION D-D (6" THROAT)



Steel Inlet Frame Notes: 1. All welds shall be performed in accordance with appropriate

AWS Specifications and Procedures.
All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
The entire frame shall be hot dip zinc coated in accordance with ASTM A-123.

NON-SETBACK CURB INLET SCALE: N.T.S.

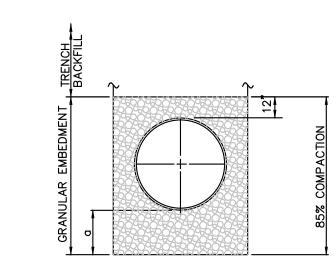
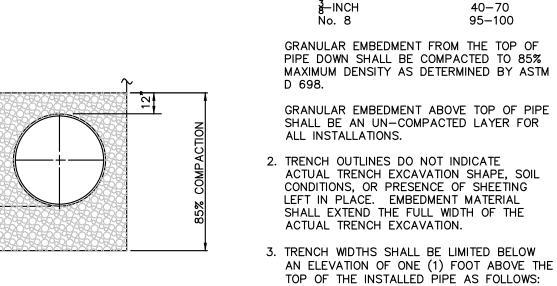


TABLE OF EN	AREDMENT	
DEPTH BELO		
D	a MIN. SOIL	a MIN. ROCK
LESS THAN 60" 60" OR LARGER	4" 6"	6" 12"

<u>LEGEND</u> D NOMINAL PIPE SIZE a EMBEDMENT BELOW PIPE



NT	NOT LESS THAN FIFTEEN (15) INCHES NOR MORE THAN TWENTY—FOUR (24) INCHES GREATER THAN THE NOMINAL OUTSIDE DIAMETER OF THE PIPE.
I. MIN. L ROCK	BACKFILL

TRENCH BEDDING

CONDITIONS:

SIEVE SIZE

1-INCH 3—INCH

1. GRANULAR EMBEDMENT SHALL BE KDOT

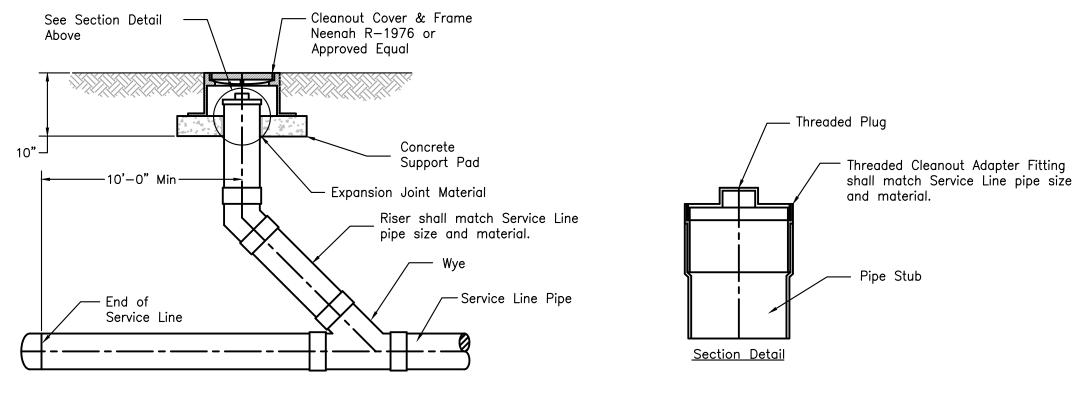
STD. SPEC. SECT. 1100, PB-2 COURSE AGGREGATE FOR CONCRETE, WASHED STONE OR GRAVEL, MEETING THE FOLLOWING

PERCENT RETAINED

0-20

40-70

- 1. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
- 2. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- 3. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- 4. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)



CLEANOUT DETAIL (NON-PAVED AREAS)
SCALE: N.T.S.

GRANULAR EMBEDMENT

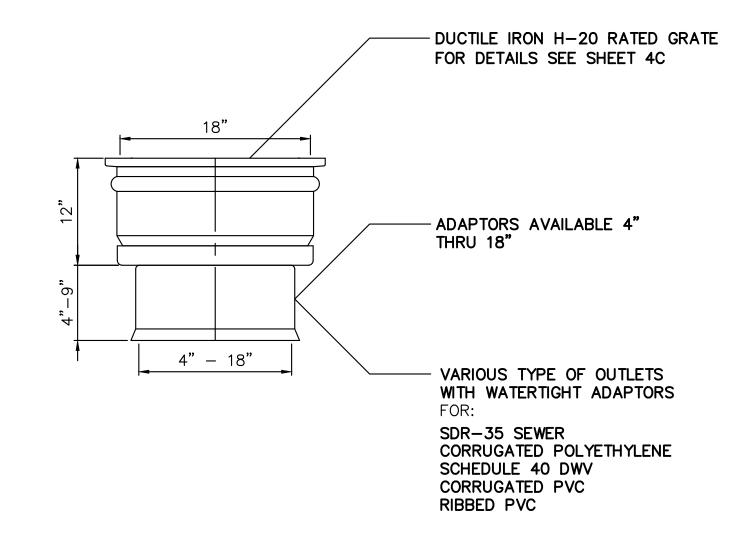
EMBEDMENTS FOR STORM SEWER PIPE

百

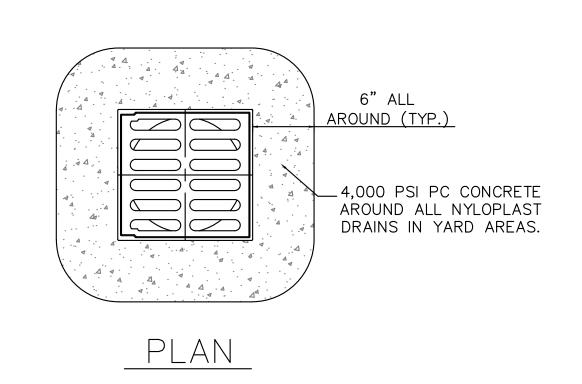
ARD

TAND,

05/30/2024



24" NYPOLAST INLINE DRAIN DETAIL



CONTRACTOR TO USE STANDARD GRATE IN GRASS OR SIDEWALK AREAS.

SECTION

SLOPE VVVV

AROUND (TYP.)

schierproducts.com

SLOPE

4,000 PSI PC CONCRETE-

AROUND ALL NYLOPLAST DRAINS IN YARD AREAS.

LANDSCAPING AREAS AND TO USE PEDESTRIAN GRATE IN

DRAIN GRATE CONCRETE BUFFER DETAIL



DE

SHEET

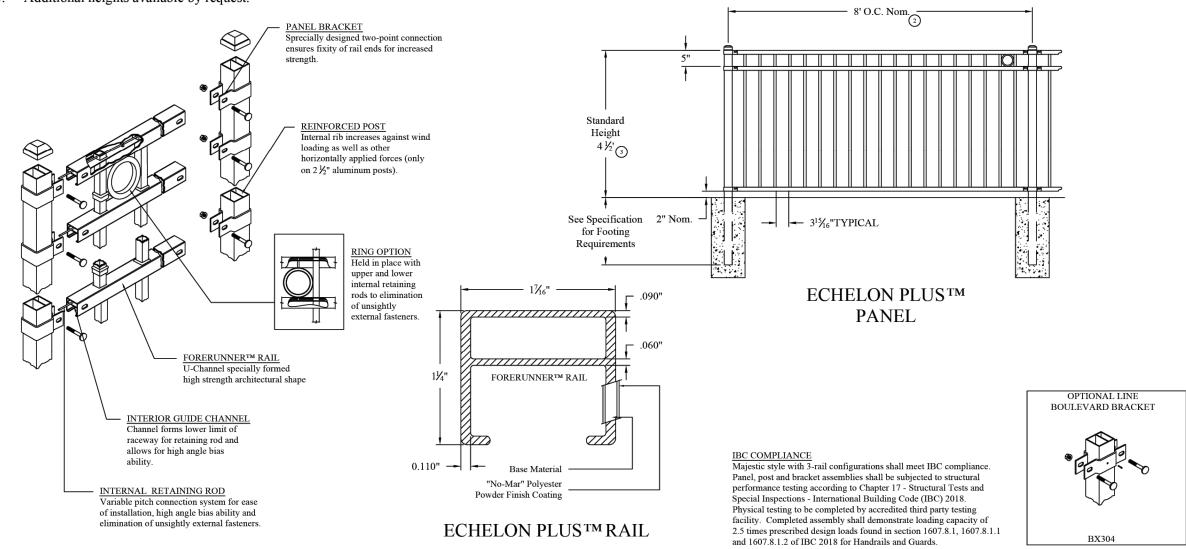
THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.

DWG BY: C. BUSENITZ **DATE:**

4/14/2022

REV:

ECO:



ECHELON PLUS™ MAJESTIC 3-RAIL POOL PANEL

FENCE PRODUCTS AMERISTARFENCE.COM | 800-321-8724

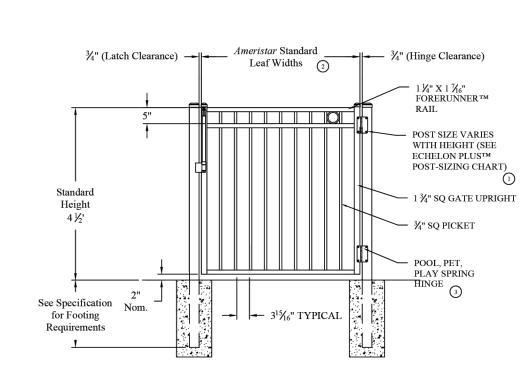
ASSA ABLOY, the global leader in door opening solutions

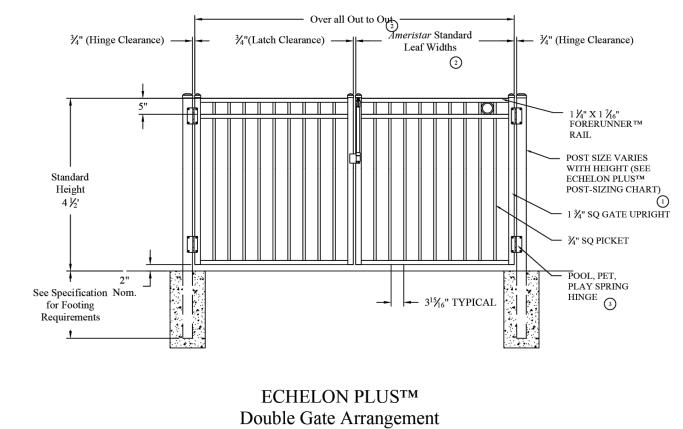
AMERISTAR ASSA ABLOY

1. Post size depends on fence height, weight, and wind loads. See Echelon PlusTM post sizing chart.

2. See Ameristar Gate Table for standard out to outs. Custom gate openings available for special out to out/leaf widths.

3. Additional styles of gate hardware are available on request. This could change the Latch & Hinge Clearance.





ECHELON PLUSTM Single Gate Arrangement

ECHELON PLUS™ MAJESTIC 3-RAIL POOL GATE

FENCE PRODUCTS AMERISTARFENCE.COM | 800-321-8724 ASSA ABLOY, the global leader in door opening solutions

AMERISTAR° **ASSA ABLOY**

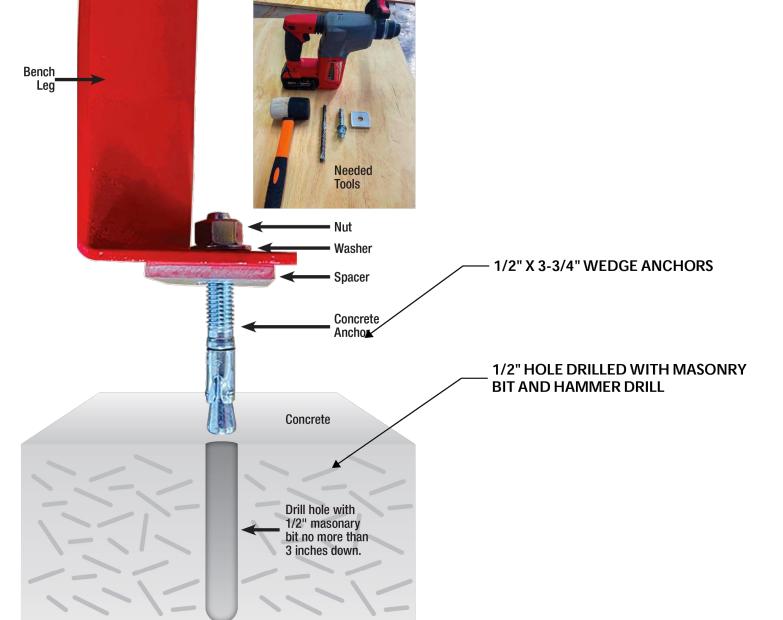
ANCHORS, SEE PAGE 2 FOR MORE INFORMATION. **ELEVATION SECTION** 6'-0" OR 8'-0" **ELEVATION** PLAN

> REFER TO PAGE 2 FOR NOTES AND ADDITIONAL INFORMATION OF BENCH INSTALLATION AND FINISHES.

BENCH EXHIBIT

NOVEMBER 8, 2021





NOTES:

BENCHES TO BE CONSTRUCTED OF 12 GAUGE

BENCHES TO BE SANDBLASTED AND THEN POWDER COATED WITH "PRISMATIC POWDERS - PASSION RED RIVER.

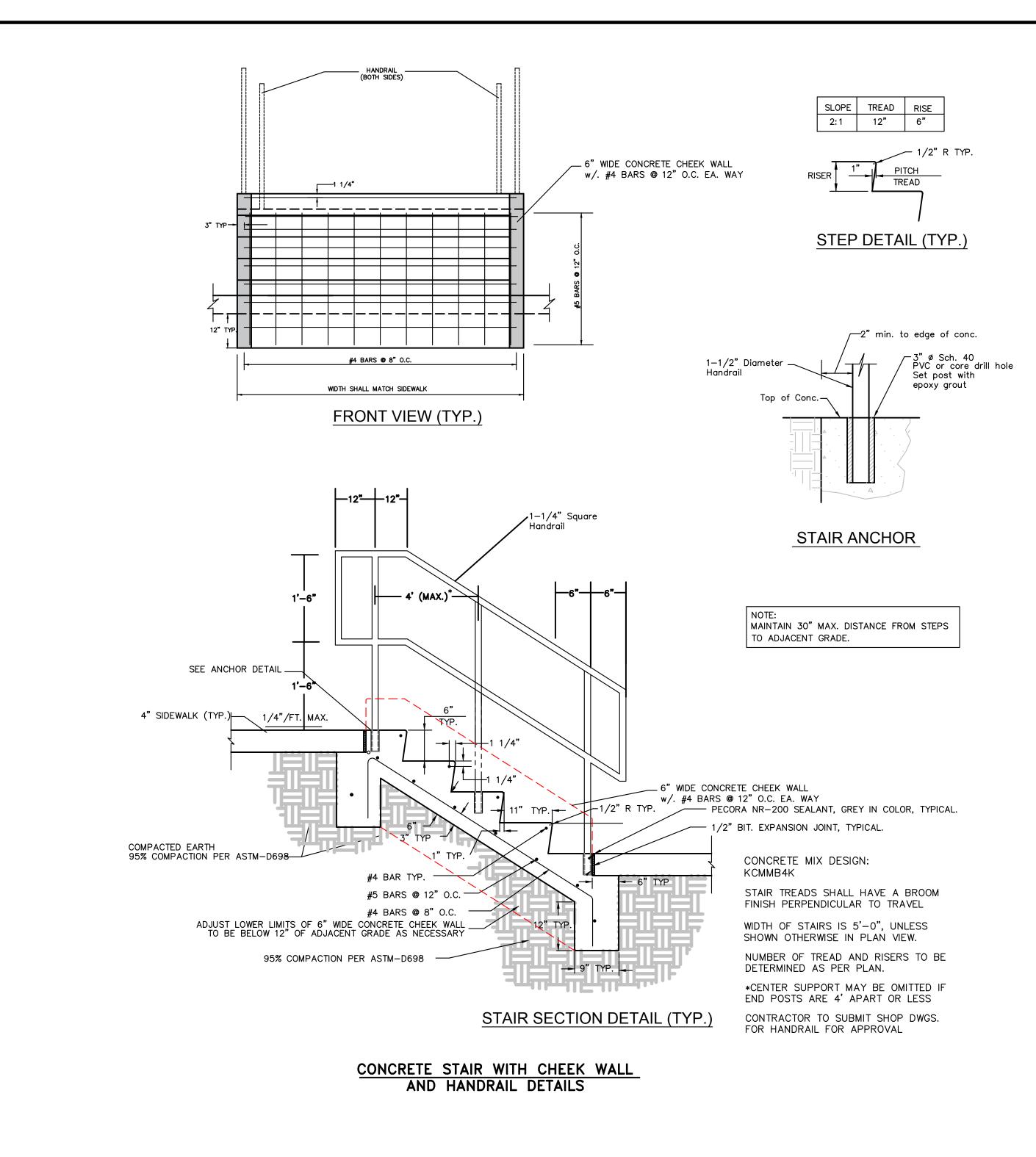
EACH BENCH INCLUDES 4 ALUMINUM SPACERS THAT LIFT THE BENCH OFF CEMENT TO HELP PREVENT RUSTING. SPACERS ARE ¼" THICK ALUMINUM THAT MEASURE 2"X2" AND HAS 1/2" HOLE FOR THE ANCHOR. HOLE IS POSITIONED SO THAT SPACER IS HIDDEN BENEATH THE LEG OF BENCH. SEE INSTALLATION INSTRUCTION DIAGRAM ON THIS SHEET.

INSTALLATION DIAGRAM

BENCH EXHIBIT

NOVEMBER 8, 2021





JUDD DAVID CLAUSSEN NUMBER PE-29850 NAL

> PHELPS ENGINEERING, INC 1270 N. Winchester Olathe, Kansas 66061 (913) 393-1155 Fax (913) 393-1166

> > PLANNING ENGINEERING IMPLEMENTATION

ANDY'S FROZEN CUSTARI 630 NW CHIPMAN ROAD LEE'S SUMMIT, MISSOURI

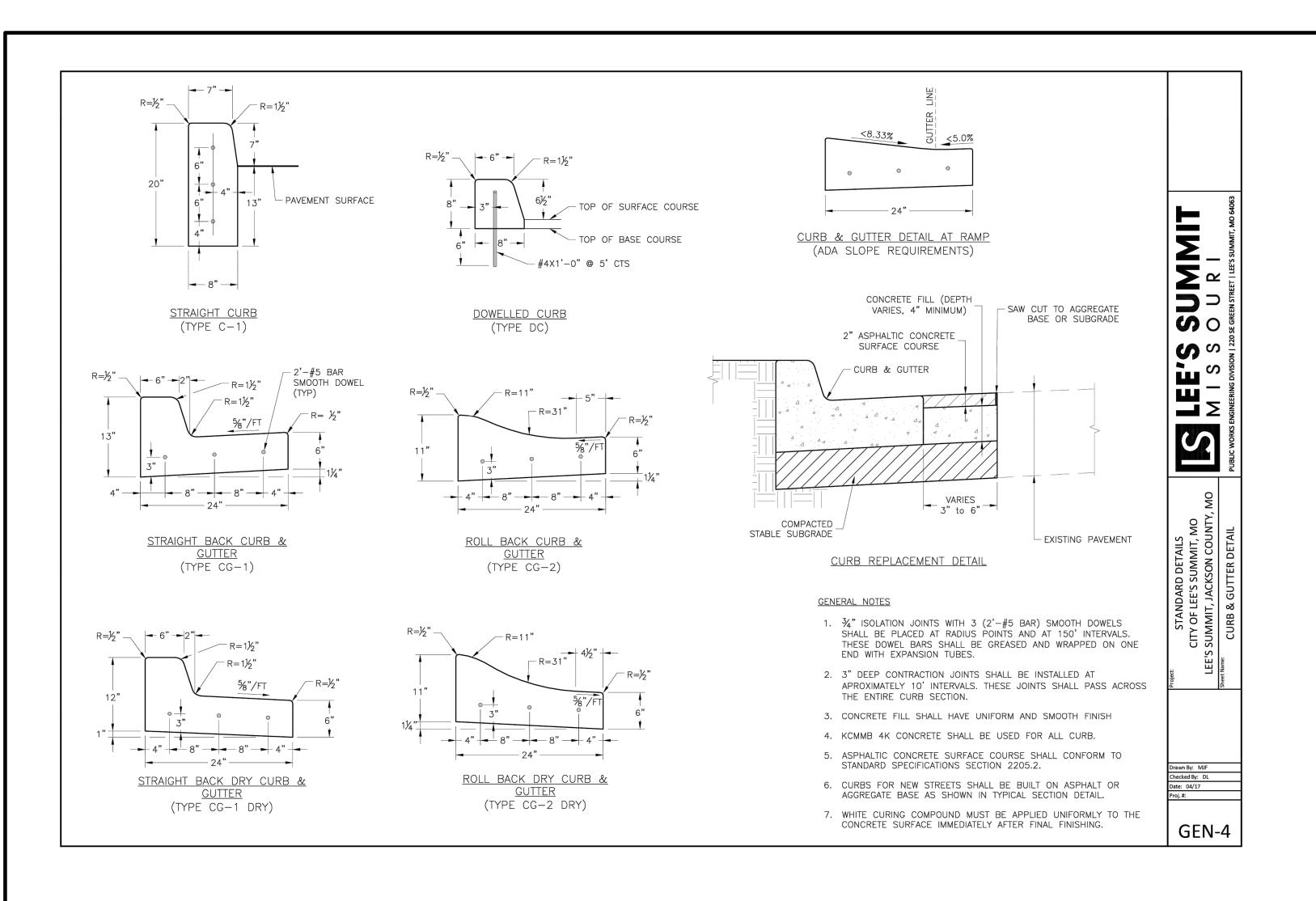
 Date
 Revisions:
 By App

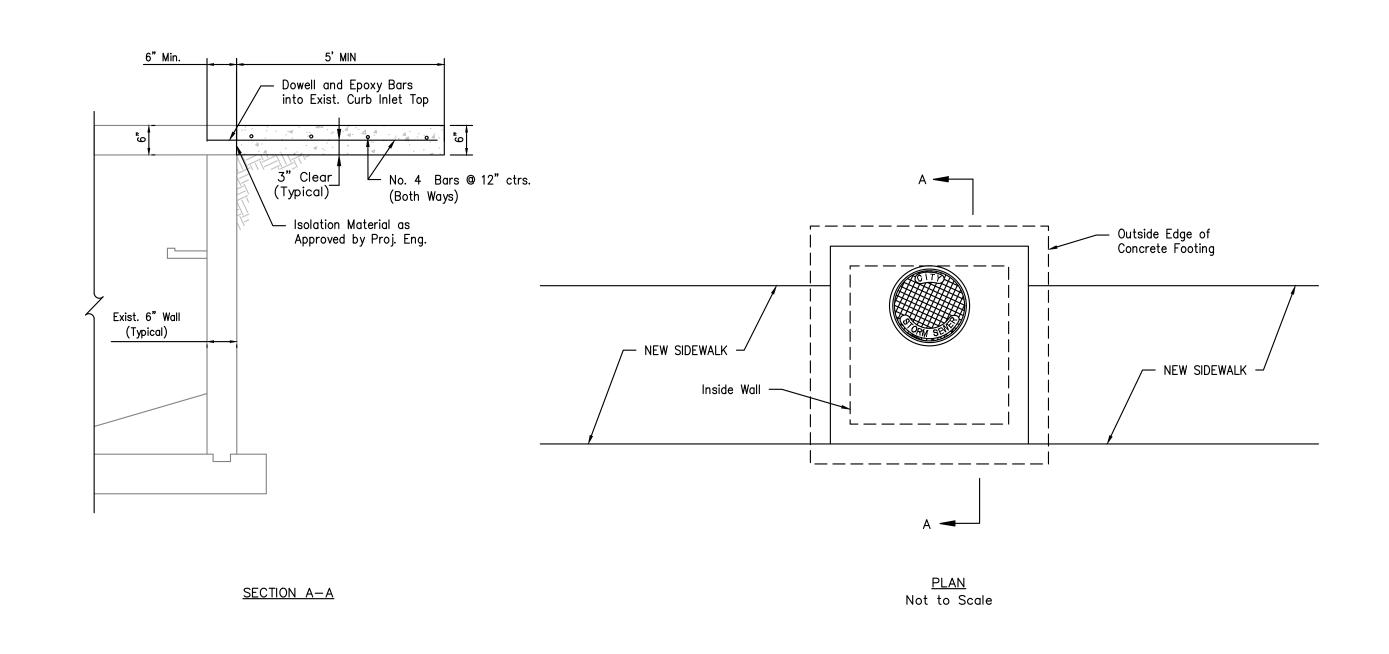
 05-10-2024
 REVISED PER CITY COMMENTS
 AEB DAF

 05-30-2024
 REVISED PER CITY COMMENTS
 AEB DAF

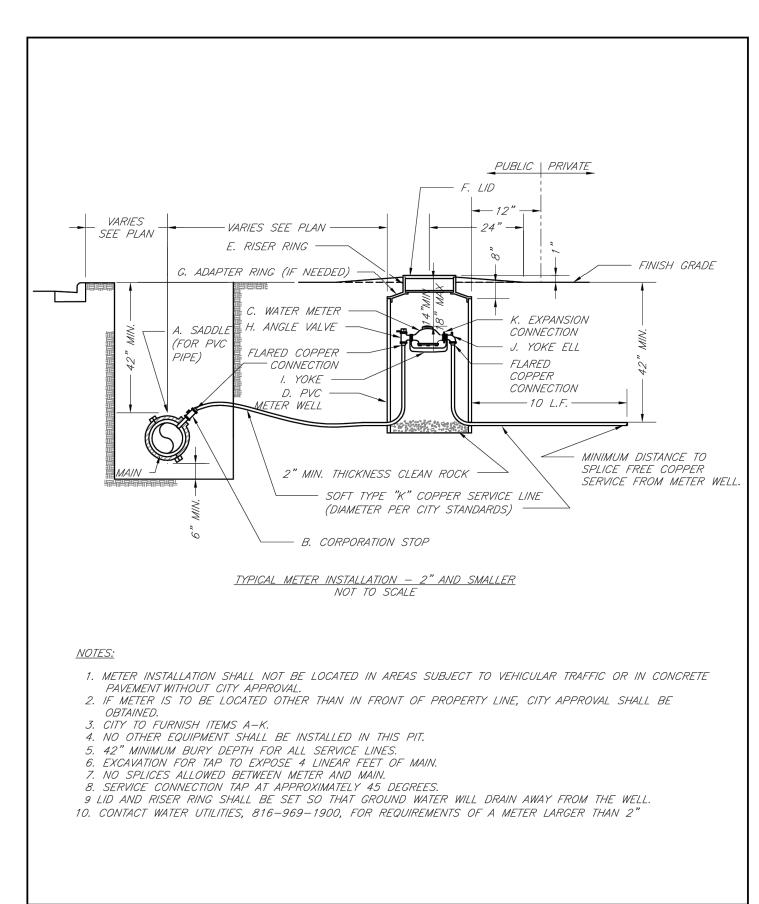
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C7.5









LEE'S SUMMIT

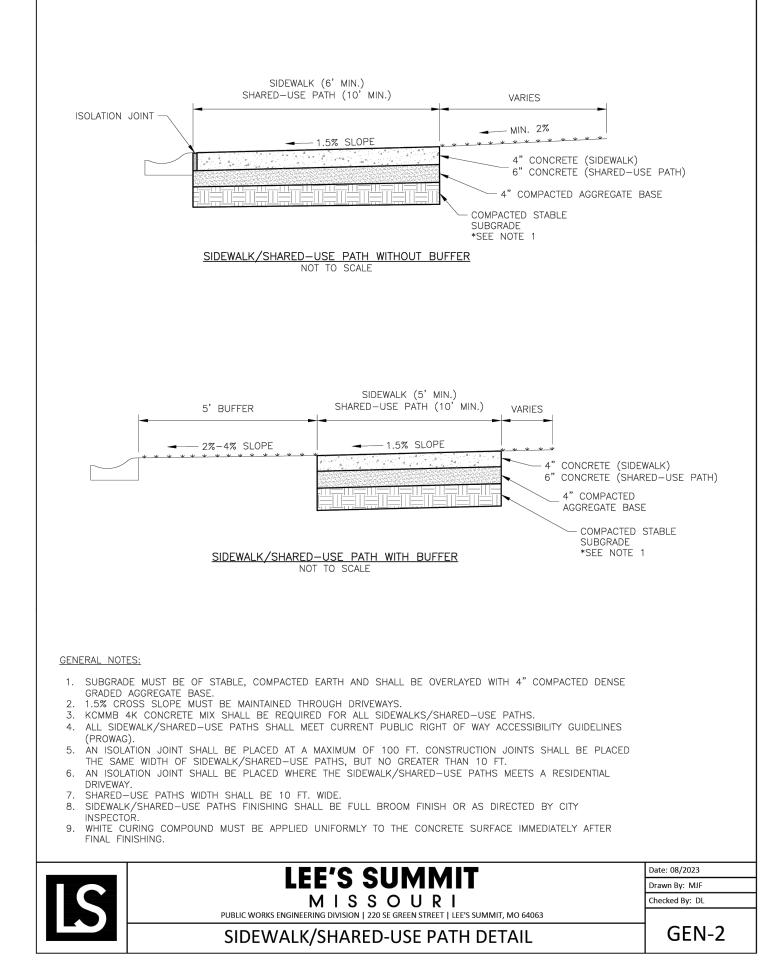
MISSOURI

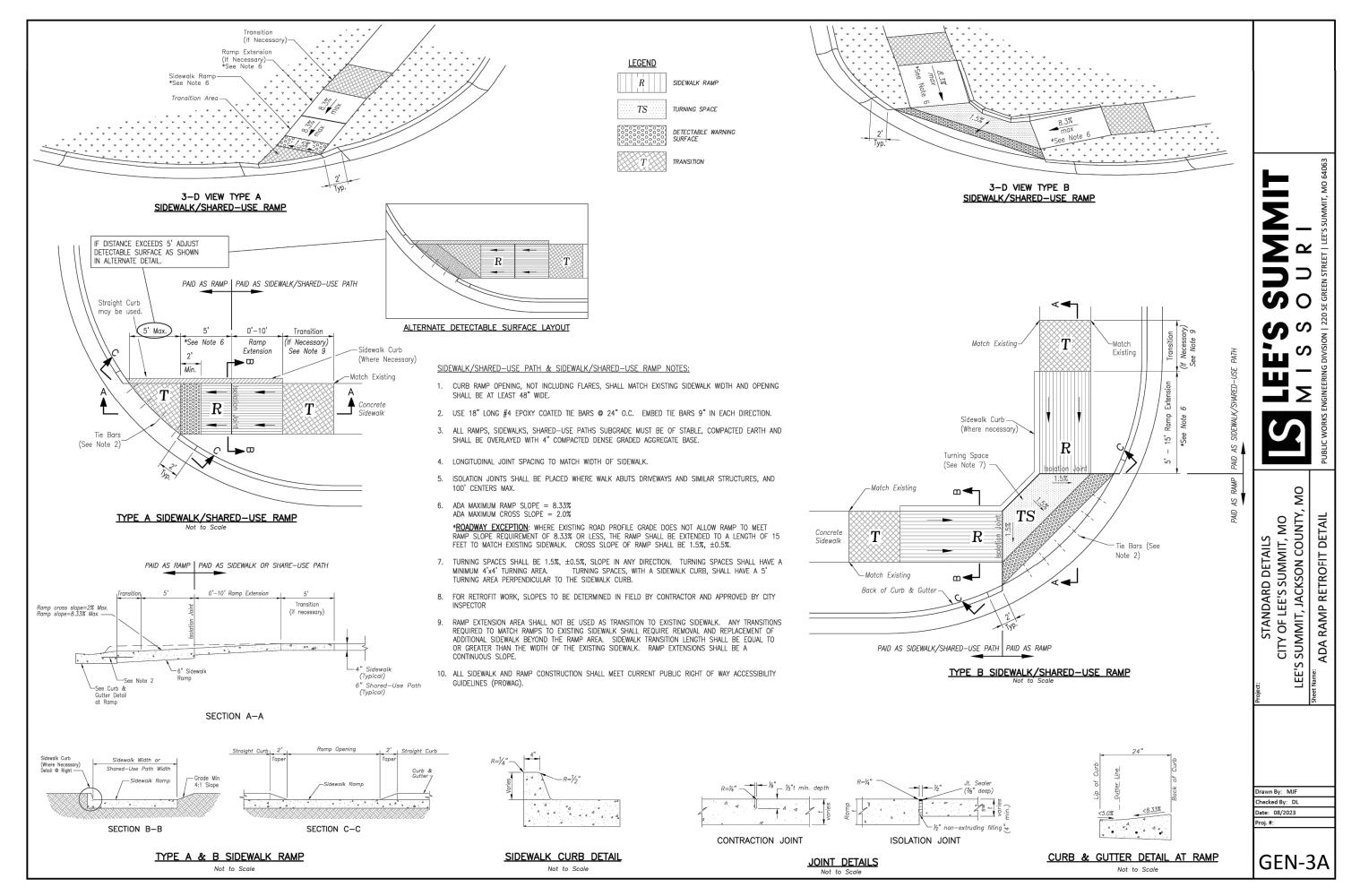
SERVICE CONNECTION/METER WELL

hecked By: DL

LE: WAT-11

lev: 1/14







PHELPS ENGINEERING, INC.
1270 N. Winchester
Olathe, Kansas 66061
(913) 393-1155
ATION
Fax (913) 393-1166
www.phelpsengineering.com



STANDARD DETAILS
ANDY'S FROZEN CUSTARE
630 NW CHIPMAN ROAD

 Date
 Revisions:
 By App.

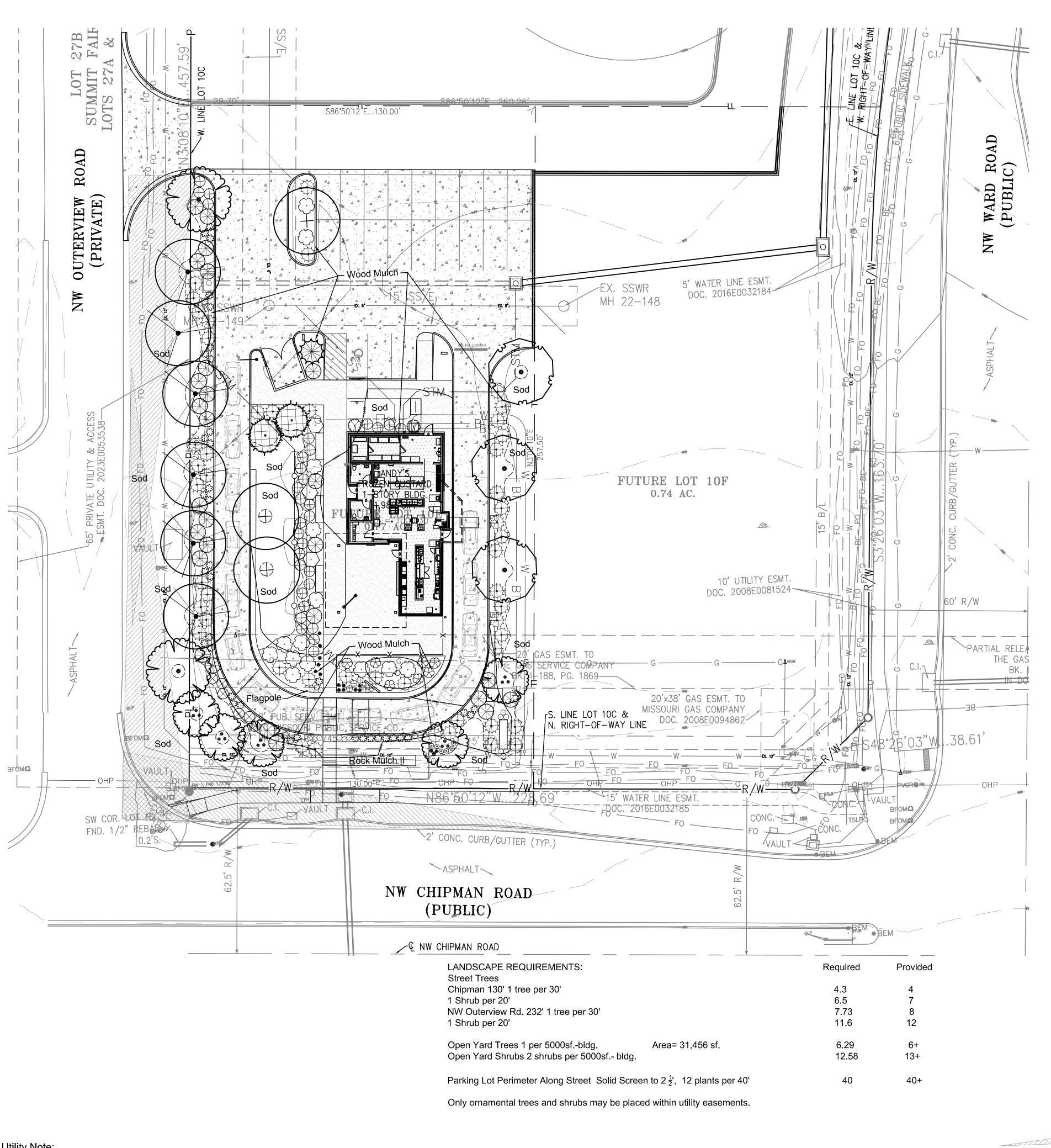
 1024 DRAWN: AEB | 1.05-10-2024
 REVISED PER CITY COMMENTS
 AEB DAF

 1 APPROVED: JDC | 2.05-30-2024
 REVISED PER CITY COMMENTS
 AEB DAF

 2 AUTHORIZATION | E-391
 AUTHORIZATION | E-391
 AUTHORIZATION | E-391

 3 AUTHORIZATION | COMMENTS | COMMEN

SHEET C7.6



SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
	3	Gleditsia triacanthos `Skyline` / `Skyline` Honey Locust Seedless	B & B	2.5"Cal	
	1	Juniperus virginiana `Canaertii` / Canaerti Juniper	B & B		6` hgt.
	2	Juniperus virginiana `Hillspire` / Hillspire Juniper	B & B		8` hgt.
	2	Nyssa sylvatica / Black Gum	B & B	2.5"Cal	
	5	Populus tremuloides `Prairie Gold` / Prairie Gold Aspen 3 Stem Clump w/ 1@1.5" cal.	В&В	1.5"Cal	
	6	Quercus bicolor / Swamp White Oak	B & B	2.5"Cal	
200	3	Quercus shumardii / Shumard Red Oak	B & B	2.5" cal.	
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT		
SHRUBS		Juniperus chinensis `Sea Green` / Sea Green Juniper			
\bigoplus	27	24" hgt. & sp.	5 gal		
	49	Juniperus virginiana `Grey Owl` / Grey Owl Juniper 30" sp.	5 gal		
⊕	3	Nepeta x faassenii `Walkers Low` / Walkers Low Catmint	1 gal		
\otimes	2	Physocarpus opulifolius `Center Glow` / Center Glow Ninebark 24"-30" hgt. & sp.	3 gal		
\bigcirc	14	Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac 18"-24" sp.	3 gal		
$\langle \cdot \rangle$	3	Rhus typhina `Tiger Eyes` / Tiger Eyes Sumac 30" hgt. & sp.	5 gal		
0	5	Sedum spectabile `Autumn Fire` / Showy Stonecrop 15"-18" hgt. & sp.	1 gal		
₩	7	Spiraea x bumalda `Anthony Waterer` / Anthony Waterer Spiraea 18"-24" hgt.	3 gal		
\oplus	37	Spiraea x bumalda `Gold Flame` / Gold Flame Spirea 18"-24" hgt.	3 gal		
ANNUALS/PERENI	<u>VIALS</u>				
•	16	Ceratostigma plumbaginoides `Blue Plumbago` / Blue Plumbago	1 gal		
<u>GRASSES</u>					
0	17	Calamagrostis acutiflora `Karl Foerster` / Feather Reed Grass 24" hgt.	3 gal		
€;3	39	Miscanthus sinensis `Morning Light` / Eulalia Grass	3 gal		
©	6	Pennisetum alopecuroides `Hameln` / Hameln Dwarf Fountain Grass 15"-18" hgt. & sp.	1 gal		

NOTE: Details and specifications to be provided in construction documents.

05/13/2024

Landscape Plan Andy's Frozen Custard

SCALE 1"= 20'

Overview Road and NW Chipman Road Lee's Summit, Missouri



Sight Triangle

170'

call appropriate locating service. In Missouri call 1-800-DIG-RITE (344-7483) to have utilities located.

GENERAL NOTES:

Contractor, Work, etc.), refer to AIA Document A201-2017 General Conditions of the Contract for Construction.

- 1. All work and materials furnished shall comply with ALL applicable building codes, including, but not limited to, 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.
- 2. Contractor is responsible for securing and obtaining all necessary permits, approvals, and inspections and paying all applicable fees for all Subcontractors.
- Contractor must comply with all appropriate municipal and regulatory agencies, codes and requirements. The contractor shall submit certificates of insurance and lien waivers in accordance with building requirements and shall include a hold harmless clause for the owner, building management, and the Architect.
- 4. Contractor shall provide inspections as required for the City Building Department approval.
- 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 proposal by the Contractor shall also constitute a representation that the Contractor has checked and verified all quantities, work and materials involved and that

 28. Contractor is responsible for the safety and protection of workers, public, and he or she shall take 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 30. The Contractor shall have a competent superintendent on the premises at all times between the drawings and field conditions which may be found shall be submitted to the when the work is in progress. 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 for by either will be binding as if called for by all; any work shown or referred to on any one drawing shall be provided by the Contractor as shown on all drawings. Whenever an item is 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 or specifically named but do serve the same function.
- 8. Larger scale details or drawings shall govern smaller 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 assumed over a less expensive one and dimensions shall be figured rather than determined by rule or scale.
- 9. The character and scope of the Work are illustrated by the Drawings. To interpret and explain the Drawings, other information deemed necessary by the Architect will be furnished to the Contractor when and as required by the Work. It is to be understood that the said additional drawings are to be of equal force as the original drawings, and shall be considered 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 errors or omissions, should any exist. Should any error or discrepancy appear or any doubt arise as to the true meaning of the drawings or notes, the contractor shall bring such items to the attention of the Architect before submission of a bid or proposal for explanation or correction of same.
- 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 include everything requisite and necessary to finish the entire work properly, notwithstanding the fact that every item necessarily involved may not be specifically mentioned or shown. Any 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 included.
- 12. The contractor shall notify the Architect immediately if he cannot for any reason
- 13. The contractor shall submit in writing all proposals for additional work to the Architect for review. No additional work by the Contractor or its agents is to proceed until induction unit covers, grilles, registers, and other such fixtures or devices are in place. a signed authorization to proceed is returned to Contractor.

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

14. Work affected by changes proposed in any revised drawings or other documents issued 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 estimates shall be prepared and submitted promptly to the owner in order not to affect the progress of the work.

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 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 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

19. The Contractor shall submit all fabrication shop drawings, samples, and fixture cuts for the Architect's review as required and/or indicated on the drawings. The Architect's review shall not be constructed as an indication that the submittal is correct or suitable nor that work 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.

- 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 work.

- For definitions of proper nouns used in these general notes (i.e. Owner, Architect, 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 and permanent bench marks from which building lines and elevation shall be taken. Heights of all work called for "A.F.F." including but not limited to soffits, ceilings, doors, and hollow metal shall be true and level within a maximum tolerance of 1/8" overall throughout the entire project.
 - 24. All HVAC, plumbing, sprinkler and electrical lines are to be coordinated so that no conflicts occur. Any conflicts which result in a relocation of a finished surface must be brought to the attention of the Architect/Engineer prior to installation.
 - 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 Construction Documents to be saved for re-use.
 - 27. The Contractor shall keep the Architect informed of the progress of the Work

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

29. A copy of the latest set of Construction Documents shall be kept at the job site for

- 31. All mechanical and electrical work shall be performed by persons licensed in their
- 32. 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 proper 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.
- 33. The owner reserves the right to let other contacts in connection with the work of the project. The Contractor shall be responsible for coordination of work with other contractors. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their
- 34. 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 and kept free from accumulations of waste materials and rubbish during the entire construction 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.
- C. Contractor shall protect and be responsible for the existing structure, facilities and improvements adjoining the area under this contract. Any disturbance or damage to adjoining property resulting directly or indirectly from the contractor's operation shall be promptly restored, repaired or replaced to the satisfaction of the client at no additional
- D. Clean up immediately upon completion of each trade's work.
- 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 drywall, masonry, concrete, mechanical and electrical equipment, piping ductwork, conduit, and surfaces visible after permanent fixtures,
- 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
- (i) a thorough cleaning throughout including washing or cleaning by other 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.

- (v) do all other cleaning as required to turn the premises over to the owner in a spotless and orderly condition.
- 35. The Owner reserves the right to accept or refuse any bids/proposals from any Contractor or Subcontractor without exception.
- 36. The Contractor is Responsible for the following conditions related to safety of public
- A. Institute and maintain safety measures and provide all equipment or temporary construction necessary to safeguard all persons and property affected.
- B. Structures, devices, or construction equipment shall not be loaded in excess of their
- design capacity. 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
- D. Determine location, protect and safeguard all utilities on or adjacent to site. Notify all utility companies and building management as required.
- E. Maintain fire preventive, sanitary and safety facilities.
- F. All machines, tools, service lines and conduits shall be shielded or barricaded to provide 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:

וווטטוו	EVIATIONS:								
‡	Pound or Number	CO	Clean Out	FLR	Floor	М	Meter	RH	Right Hand
i Ø	And Diameter or Round	COL	Column	FLUOR FOC	Fluorescent Face of Concrete	MACH MAINT	Machine Maintenance	RLF RM	Relief Room
!	At	COMM	Communication Outlet	FOF	Face of Finish	MAN	Manual	RND	Round
	711	CONC COND	Concrete Condenser or Condensate	FOM	Face of Masonry	MAS	Masonry	RO	Rough Opening
;	Air Conditioning	CONF	Conference	FOS	Face of Stud	MATL	Material	ROW	Right of Way
.,	Anchor Bolt	CONN	Connect(ed)(ion)	FOW	Face of Wall	MAX	Maximum	S	0 11
V OR ACOUS	Above Acoustical	CONST	Construction	FP FR	Fireproof Fire Rated, Fire Retardant	MBR MDF	Member Medium Density Fiberboard	S SA	South Supply Air
ON ACCOS	Access	CONT CONTR	Continuous Contractor	FRM	Frame	MECH	Mechanical	SAN	Sanitary
T	Acoustical CeilingTile	COORD	Contractor	FS	Full Size	MED	Medium	SC	Solid Core
U	Air Conditioning Unit	CORR	Corridor	FSP	Fire Stand Pipe	MEMB	Membrane	SCD JT	Scored Joint
	Access Door	CORR	Corrugated	FT or '	Foot, Feet	MEZZ	Mezzanine	SCHED	Schedule
)	Area Drain	CPT	Carpet(ed)	FTG	Footing	MFR	Manufacturer	SECT	Section
)D)DL	Addendum Additional	CRS	Course(s)	FUR FURN	Furring Furnish	MIN MIN	Minimum Minute	SHT SIM	Sheet Similar
)H	Adhesive	CSWK CT	Casework Ceramic Tile	FUT	Future	MIR	Mirror	SPEC	Specification
)J	Adjacent	CTR	Ceramic Tile Center	FV	Field Verify	MISC	Miscellaneous	SPKR	Speaker
DJT	Adjustable	CUH	Cabinet Unit Heater	FVC	Fire Valve Cabinet	MIX	Mixture	SQ	Square
F	Above Flnish Floor	CW	Cold Water	G		MLDG	Molding	SQFT OR SF	Square Foot
GG	Aggregate	CY	Cubic Yard	G	Gas	MLWK	Millwork	ST STL OR SS	
HU _LOW	Air Handling Unit Allowance	CYL	Cylinder	GA GAL	Gage or Gauge Gallon	MM MO	Millimeter Masonry Opening	STAG STC	Staggered Sound Transmission Coeffici
_T	Alternate	D D	Donth	GALV	Galvanized	MOD	Modified, Modular	STD	Standard
LUM	Aluminum	DB	Depth Decibel	GB	Grab Bar	MS	Machine Screw	STL	Steel
NC	Anchor/ Anchorage	DBL	Double	GC	General Contract(or)	MTD	Mounted	STOR	Storage
NG	Angle	DBL ACT	Double Acting	GEN	Generator	MTL	Metal	STRUCT	Structural
NOD	Anodized	DC	Direct Current	GFRC	Glass Flber Reinforced Concrete	MTR	Mortar	STRUCT STL	Structural Steel
P OR AC PNL PC	Access Panel Architectural Precast Concrete	DEG	Degree	GFRG GL	Glass FIber Reinforced Gypsum Glass	MULL	Mullion	SUSP SW	Suspended Switch
PPROX	Approximate	DEMO	Demolish, Demolition	GLU LAM	Glue Laminated	N N	North	SYS	System
RCH	Architect(ural)	DEPT DF	Department Drinking Fountain	GR GR	Grade	NA	Not Applicable	T	5,500m
SPH	Asphalt	DH DH	Drinking Fountain Double Hung	GR BM	Grade Beam	NAT	Natural	T	Tread
JTO	Automatic	DIA	Diameter	GRND	Ground	NIC	Not In Contract	T&G	Toungue and Groove
/E	Avenue	DIAG	Diagonal	GSF	Gross Square Feet	NO, NUM, #	Number	TB	Towel Bar
/G	Average	DIFF	Diffuser	GU	Gutter	NOM	Nominal	TEL	Telephone
WT	Acoustical Wall Treatment	DIM	Dimension	GWB GYP	Gypsum Wallboard	NORM NRC	Normal Noise Reduction Coefficient	TEMP TEMP	Temperature Temporary
&B	Balled & Bagged	DIR	Direction, Director	GYP GYP BD	Gypsum Gypsum Wallboard	NRC NTS	Noise Reduction Coefficient Not to Scale	TEMP TEMP GL	Temporary Tempered Glass
XD AL	Balance	DISP DIST	Dispenser Disribution	H	Oppositi vvallobala	0	TOUR OF COURT	TEX FIN	Textured Finish
2	Back of Curb	DIST	Disribution Division	Н	High	OA	Overall	THERM	Thermal
D	Board	DK	Dark	H PT	High Point	OB	Obscure	THK	Thick(ness)
F	Bottom Face	DL	Dead Load	HB	Hose Bibb	OB GL	Obscure Glass	TKBD	Tackboard
FE	Bottom Footing Elevation	DMT	Demountable	HC	Hollow Core	OC	On Center	TO	Top of
G ITUM	Bumber Guard Bituminous	DN	Down	HD HDBD	Head Headboard	OD OFCI	Outside Dlameter Owner Furnished Contractor	TOB TOC	Top of Beam Top of Curb (Concrete)
JT	Bed Joint	DO	Door Opening	HDF	High Density Fiberboard	OFGI	Installed	TOD	Top of Deck
L	Building Line	DP DP	Dampproofing Deep	HDR	Header	OFF	Office	TOF	Top of Footing
LDG	Building	DR	Door	HDWD	Hardware	OFOI	Owner Furnished Owner Installed	TOP	Top of Pier
LK	Block	DS	Downspout	HDWR	Hardwood	OH	Overhead	TOPAR	Top of Parapet
LKG	Blocking	DSGN	Design	HJT	Head Joint	OPNG OPP	Opening	TOS	Top of Steel
LR LW	Boiler Below	DTL	Detail	HM HNDRL	Hollow Metal Handrail	ORD	Opposite Overflow Roof Drain	TOW TPD	Top of Wall Toilet Paper Dispenser
M	Beam	DUP	Duplicate	HORIZ	Horizontal	ORIG	Original	TR	Transom
M	Bench Mark	DW	Dishwasher	HP	Horsepower	ОТО	Out to Out	TYP	Typical
0	Bottom Of	DWG DWL(S)	Drawing Dowel(s)	HR	Hour	OZ	Ounce	U	1 ypiodi
OC	Bottom of Curb	DWE(3)	Drawer	HT	Height	Р		UL	Underwriter's Laboratories
OS	Bottom of Steel	E	Siamo.	HTG	Heating	PC	Precast Concrete	UNFIN	Unfinished
OT	Bottom	E	East	HTR	Heater	PC	Point of Curve	UNO	Unless Noted Otherwise
PL	Bearing Plate	EA	Each	HVAC	Heating, Ventilating, Air Conditioning	PCF PERF	Pounds per Cubic Foot Perforated	UR	Urinal
R RG	Bedroom Bearing	EE 	Each End	HW	Hot Water	PERP	Perpendicular	UTIL V	Utility
RIDG	Bridging	EF EF	Each Face Exhaust Fan	HWH	Hot Water Heater	PI	Point of Intersection	V	Volt
RK	Brick	EG	Exhaust Grille	HWY	Highway	PL	Plate	VAL	Value
RKT	Bracket	EIFS	Exterior Insulation& Finish	HYD	Hydrant	PL	Property Line	VAR	Varnish
RZ	Bronze		System	HZ	Hertz	PLAM	Plastic Laminate	VB	Vapor Barrier
S	Both Sides	EJT	Expansion Joint	ICE	Inculated Congrete Form	PLAS PLUMB	Plaster	VCT	Vinyl Composition Tile
SMT	Basement	EL OR ELV	Elevation	ICF ID	Insulated Concrete Form Inside Diameter	PLYWD	Plumbing Plywood	VEN	Veneer
TWN JR	Between Built-up Roofing	ELAS	Elastomeric	IF	Inside Face	PNL	Panel	VENT VERT	Ventilating Vertical
/L	Bevel(ed)	ELEC ELEV	Electrical Elevator	ILLUM	Illumination	PR	Pair	VEST	Vestibule
V	Both Ways	EMER	Emergency	IN or "	Inches	PREFAB	Prefabricated	VIF	Verify in Field
/ND	Beyond	ENCL	Enclosure	INCL	Include(d)(ing)	PRELIM	Preliminary	VIT	Vitreous
		ENGR	Engineer	INFO	Information	PROJ	Projection	VOL	Volume
	Celsius, Degree	ENTR	Entrance	INSUL INSUL DAIL	Insulation	PROP	Property Pounds per Square Foot	VWC	Vinyl Wall Covering
of O	Certificate of Occupancy	EQ	Equal	INSUL PNL INT	Insulated Panel Interior	PSF PSI	Pounds per Square Foot Pounds per Square Inch	W	Wost
to C AB	Center to Center Cabinet	EQUIP	Equipment Escalator	J	mono	PSI PT	Paint	W W	West Wide, Width
ANTL	Cantilever	ESC EST	Escalator Estimate	JAN	Janitor	PT	Point, Point of Tangent	W/	With
3	Catch Basin	ESTB	Establish	JB	Junction Box	PTD	Painted	W/O	Without
ΕM	Cement	EW	Each Way	JC	Janitor's Closet	PTD	Paper Towel Dispenser	WC	Water Closet
ER	Ceramic	EWC	Electric Water Cooler	JST	Joist	PTN	Partition	WD	Wood
F	Cubic Foot	EXH	Exhaust	JST BR	Joist Bearing	PVC	Polyvinyl Chloride	WDW	Window
FCI	Contractor Furnished Contractor Installed	EXIST'G	Existing	JT K	Joint	PVMT PWD	Pavement Plywood	WF WG	Wide Flange
FM	Cubic Feet Per Minute	EXP EXT	Expansion Exterior	KD	Knocked Down	Q	yoou	WG WH	Wired Glass Water Heater
G.	Corner Guard	EXT EXTRU	Exterior Extrusion	KIT	Kitchen	QT	Quarry Tile	WI	Wrought Iron
Н	Coat Hook	F		KO	Knockout	QT	Quart	WPT	Working Point
HAM	Chamfer	F	Farenheit	KPL	Kick Plate	QTR	Quarter	WSCT	Wainscot
HBD HEM	Chalkboard Chamista	FA	Fire Alarm	KW	Kilowatts	QTY	Quantity	WT	Weight
HEM	Chemical, Chemistry Cubic Inch	FAS	Fasten, Fastener	L I	Length	QUAL R	Quality	WTW	Wall to Wall
Р	Cast-In-Place	FB FBO	Face Brick	L LAM	Length	R R	Riser	WWF Y	Welded Wire Fabric
PC	Cast-In-Place Concrete	FBO FCO	Furnished By Others Floor Cleanout	LAV	Lavatory	R, RAD	Radius	Y YD	Yard
R	Circle	FD FD	Floor Cleanout Floor Drain	LG	Large	RA	Return Air	. -	- -
J	Control Joint	FDTN	Foundation	LH	Left Hand	RB	Rubber Base		
KT	Circuit	FE	Fire Extinguisher	LIN	Linear	RCP	Reinforced Concrete Pipe		
_	Center Line	FEC	Fire Extinguisher Cabinet	LL	Live Load	RD	Roof Drain		
	Ceiling	FF	Finished Floor	LLH	Long Leg Horizontal	RE or REF	Reference		
.G	Ceilling Height Contract Limit Line	FF&E	Furniture, Fixtures, & Equipment	LLV LOC	Long Leg Vertical	REBAR REC	Reinforcing Bar		
_G _G HT	COMPACE ENTREEME	FFE	Finished Floor Elevation	LOC	Locate, Location Longitudinal	RECP	Recessed Receptacle		
.G .G HT .L		FFL	Flinished Floor Line	LONG LP	Longitudinai Low Point	RECT	Rectangular		
_G _G HT _L _O	Closet		Fine 11		· · · · · · · · · · · · · · · · · ·	1.01			
.G .G HT .L .O .R		FH	Fire Hydrant/Hose	LT	Light	REFR	Refridgerator		
.G .G HT .L .O .R .RM	Closet Clear(ance)	FH FHC	Fire Hose Cabinet		Light Lighting	REFR REG	Refridgerator Regular		
LG LG HT LL LO LR LRM M	Closet Clear(ance) Classroom	FH FHC FHMS	Fire Hose Cabinet Flat Head Machine Screws	LT LTG LTL	_		Refridgerator		
LG LG HT LL LO LR LRM M M	Closet Clear(ance) Classroom Centimeter(s) Construction Manager Currugated Metal Pipe	FH FHC	Fire Hose Cabinet	LT LTG LTL LVR	Lighting Lintel Louver	REG REINF REQD	Refridgerator Regular Reinforcing(ed) Required		
CLG CLG HT CLL CLO CLR CLRM CM CMP CMU	Closet Clear(ance) Classroom Centimeter(s) Construction Manager	FH FHC FHMS FHWS	Fire Hose Cabinet Flat Head Machine Screws Flat Head Wood Screws	LT LTG LTL	Lighting Lintel	REG REINF	Refridgerator Regular Reinforcing(ed)		

SYMBOL LEGEND:

WINDOW TAG 202.2B DOOR TAG 101 Room name **ROOM NAME** NORTH ARROW **DESIGN ALTERNATE** RE: COVERSHEET

DETAIL SECTION

EXTERIOR ELEVATION

ELEVATION LEVEL

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806

ARCHITECT: HUFFT 3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com STRUCTURAL:

www.eatandys.com

METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807

CIVIL/LANDSCAPE: PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

CONSTRUCTION DOCUMENTS 05/01/2024

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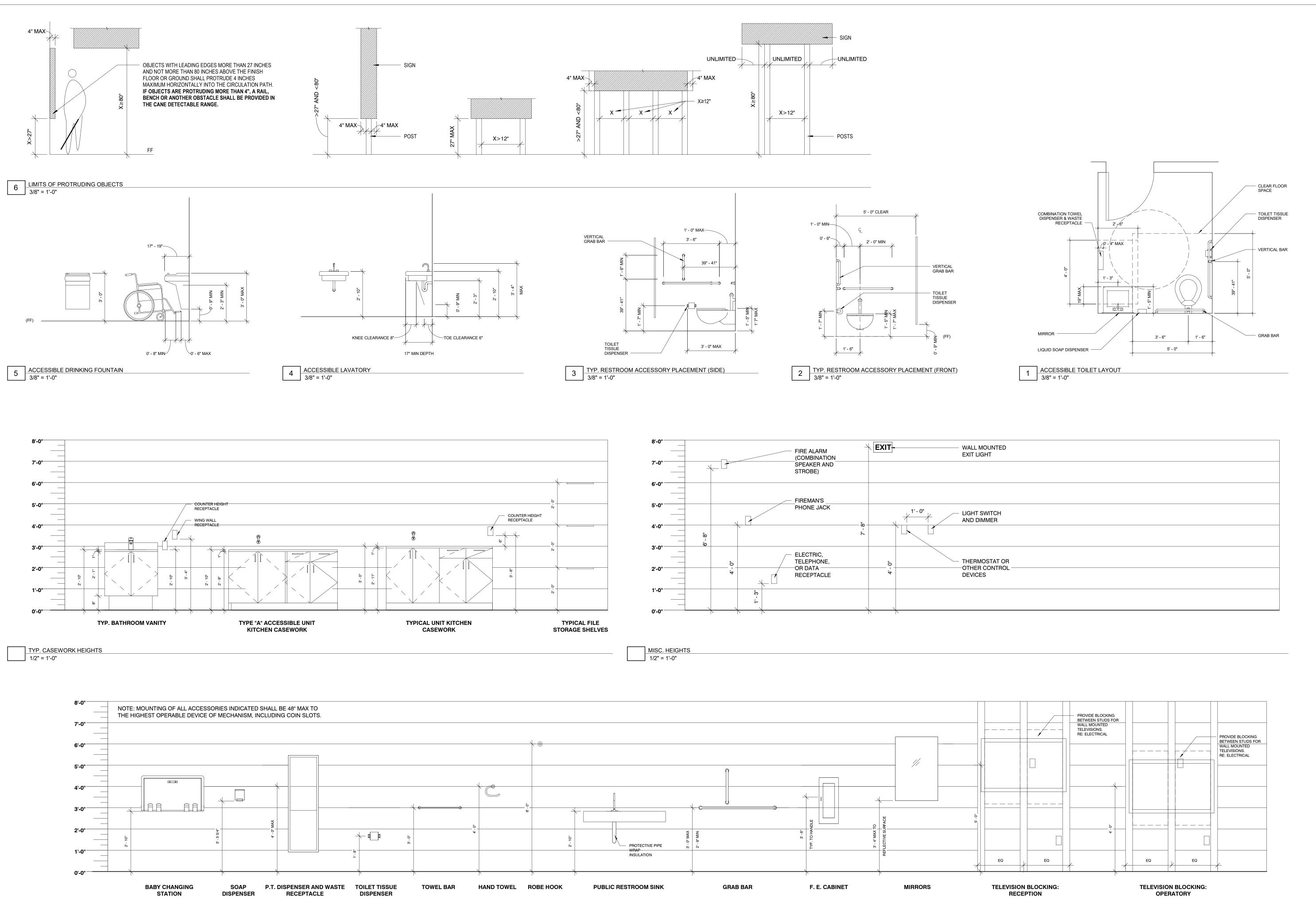
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Architect: JEFFREY KLOCH

05/30/2024

License Number: A-2016005093 Drawn Bv: MS Project Number: 736 **GENERAL NOTES**



TYP. FIXTURE HEIGHTS

1/2" = 1'-0"

Hufft

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ANDY'S FROZEN CUSTARD

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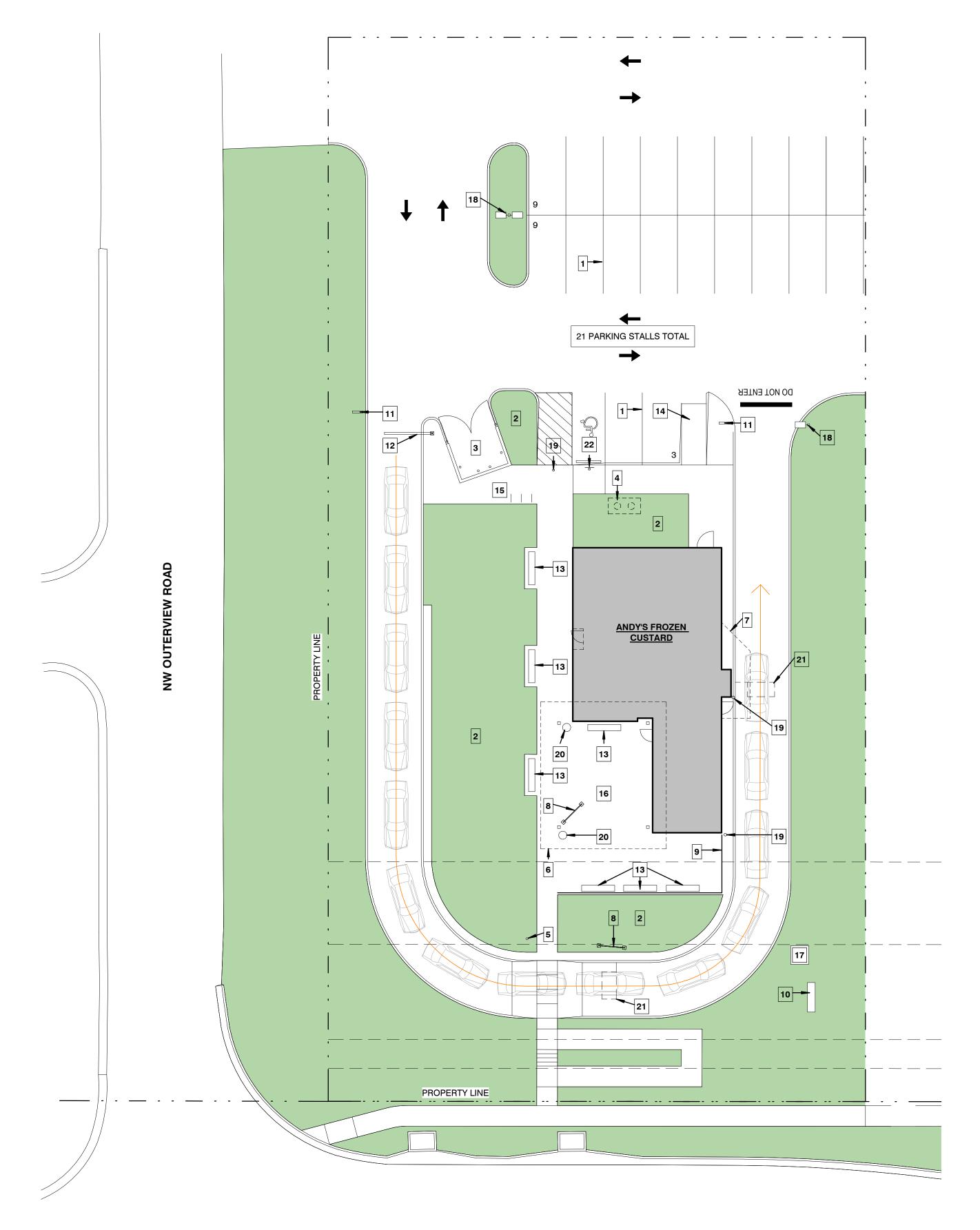
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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

TYP. MOUNTING HEIGHTS



NW CHIPMAN ROAD

1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

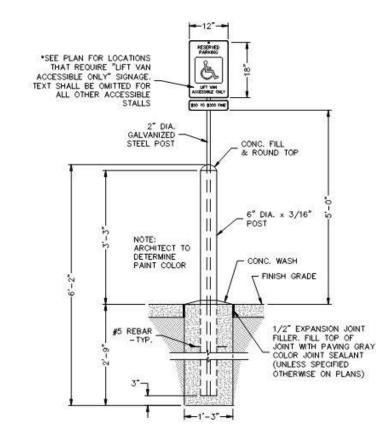
SITE PLAN KEYNOTES

- ALL STALL AND SYMBOL DEMARCATION TO BE 4" WHITE STRIPING
- 2 LANDSCAPE / PLANTINGS, RE: LANDSCAPE DWGS
- DUMPSTER ENCLOSURE. MASONRY TO MATCH BUILDING
 GREASE INTERCEPTOR, RE: CIVIL & MEP DWGS
- 5 FLAGPOLE, CFCI. 40' SATIN ALUMINUM POLE WITH 8'X12' FLAG, W/ GROUND LIGHT FIXTURE INCORPORATED IN FOOTING
 - PATIO CANOPY AND STRUCTURE. RE: STRUCT DWGS
- DRIVE-THRU CANOPY, RE: STRUCT DWGS
 MENU BOARD. VERIFY LOCATION WITH OWNER. ALL SIGNAGE BY PINNACLE SIGN GROUP. RE: ELEC &
- SIGNAGE DWGS 9 36" METAL FENCE
- MONUMENT SIGN. ALL SIGNAGE BY PINNACLE SIGN GROUP, VERIFY LOCATION WITH OWNER. RE: ELEC, STRUCT., & SIGNAGE DWGS
- STRUCT., & SIGNAGE DWGS

 DIRECTIONAL SIGN. ALL SIGNAGE BY PINNACLE SIGN
 GROUP. RE: ELEC & SIGNAGE DWGS
- 12 DRIVE-THRU CLEARANCE SIGN. ALL SIGNAGE BY
 PINNACLE SIGN GROUP. RE: ELEC & SIGNAGE DWGS
 13 STANDARD 8'-0" CORPORATE RED BENCH, OFCI
- 14 PROVIDE ACCESSIBLE CURB RAMP WITH DETECTABLE WARNING FOR PERSONS WITH VISUAL IMPAIRMENT
- 15 BIKE RACKS, INVERTED 'U' CBBR-2UR-SS
 16 OUTDOOR PATIO, CONCRETE SLAB W/ SEALER
- 17 TRANSFORMER, RE: CIVIL & ELEC DWGS18 LIGHT POLE, RE: SITE PHOTOMETRIC PLAN AND CIVIL
- 19 6" DIA. CONCRETE BOLLARD PTD WHITE, TYP. RE: CIVIL
- 20 STANDARD CORPORATE WASTE RECETACLE, OFCI
 21 LOOP DETECTOR, RE: ELECT
- 22 ACCESSIBLE SIGN EMBEDDED IN 6" DIA. CONCRETE BOLLARD PTD WHITE

SITE PLAN GENERAL NOTES:

- 1. COORDINATE SITE DETAILS INDICATED ON THIS SHEET WITH ALL CIVIL DRAWINGS. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION NOT INDICATED HERE AND NOTIFY ARCHITECT OF AND DISCREPENCIES.
- REFER TO LANDSCAPE PLANS FOR PLANTINGS TYPE AND LOCATION.



BOLLARD MOUNTED ACCESSIBLE STALL SIGN

Hufft

PROJECT INFORMATION:
Andy's Frozen Custard #204

630 NW Chipman Road

Lee's Summit, Missouri 64086

owner:

ANDY'S FROZEN CUSTARD
211 E. Water Street

www.eatandys.com

Springfield, MO 65806

HUFFT
3612 Karnes Boulevard

ARCHITECT:

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STRUCTURAL:

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MEP:
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ISSUE: CONSTRUCTION DOCUMENTS

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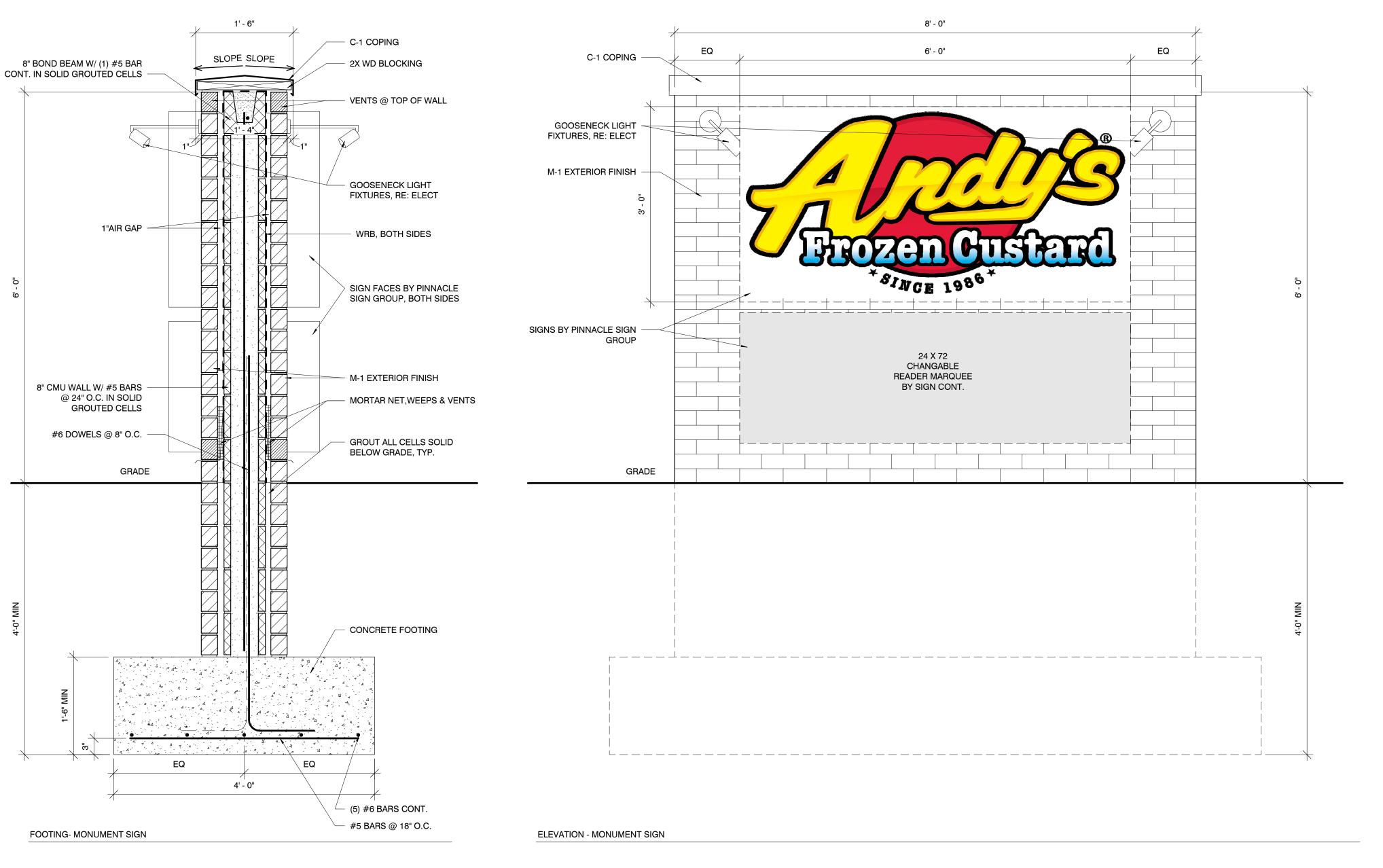


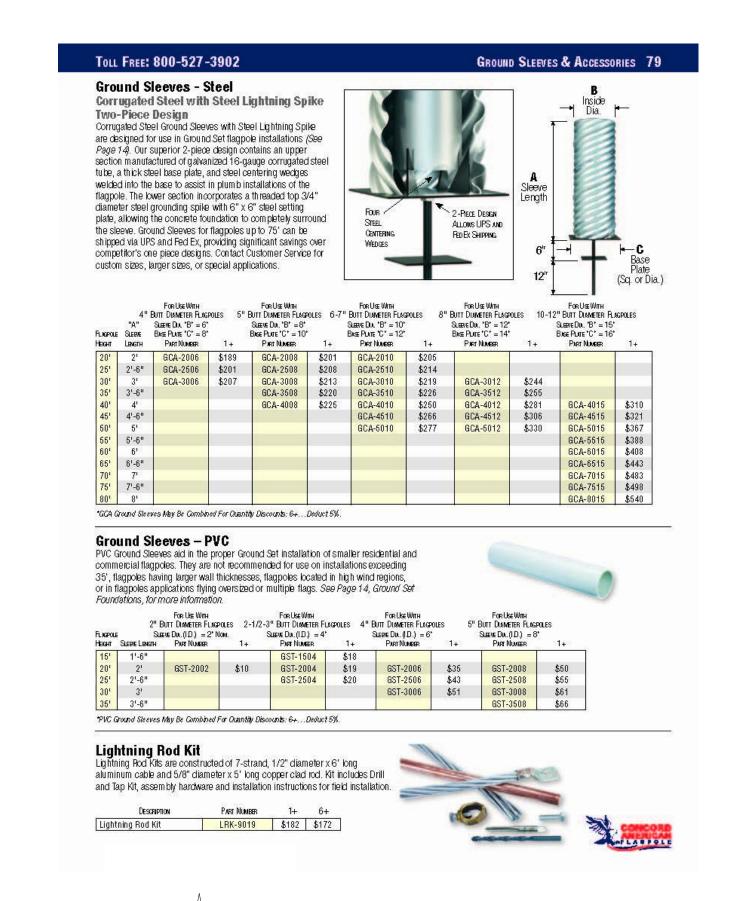
05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

ARCHITECTURAL SITE PLAN

A010





GENERAL NOTES: 1. ALL SIGNAGE BY PINNACLE SIGN GROUP. CONCRETE FOOTING, COORDINATE WITH 2. FOOTINGS FOR ALL SIGNAGE TO BE PINNACLE SIGN INSTALLED BY GENERAL CONTRACTOR. GROUP. RE: ELEC FOOTING DETAILS PROVIDED FOR REFERENCE DWGS FOR POWER ONLY. CONTRACTOR TO COORDINATE AND CONFIRM FOOTING SIZES, REINFORCING, AND ANCHORING WITH PINNACLE SIGN GROUP PRIOR TO CONSTRUCTING FOOTING.

3. FOOTING, MANSORY, CAP, POWER, GOOSENECK LIGHT FIXTURES FOR MONUMENT SIGN BY CONTRACTOR.

4. FLAGPOLE AND SLEEVE BY PINNACLE SIGN

MENU BOARD SIGN,

COVERPLATE BY

BY PINNACLE SIGN GROUP

PINNACLE SIGN GROUP

CONCRETE PIER FOOTING,

PINNACLE SIGN GROUP.

COORDINATE WITH

40' TALL FLAG POLE

FOOTING - FLAG POLE (NOT TO SCALE)

FOOTING - MENU BOARD SIGN

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Hufft

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OWNER:

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STRUCTURAL:

ARCHITECT:

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Springfield, MO 65806

Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

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2225 W. Chesterfield Blvd., Suite 300

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3333 E. Battelfield Road, Suite 1000

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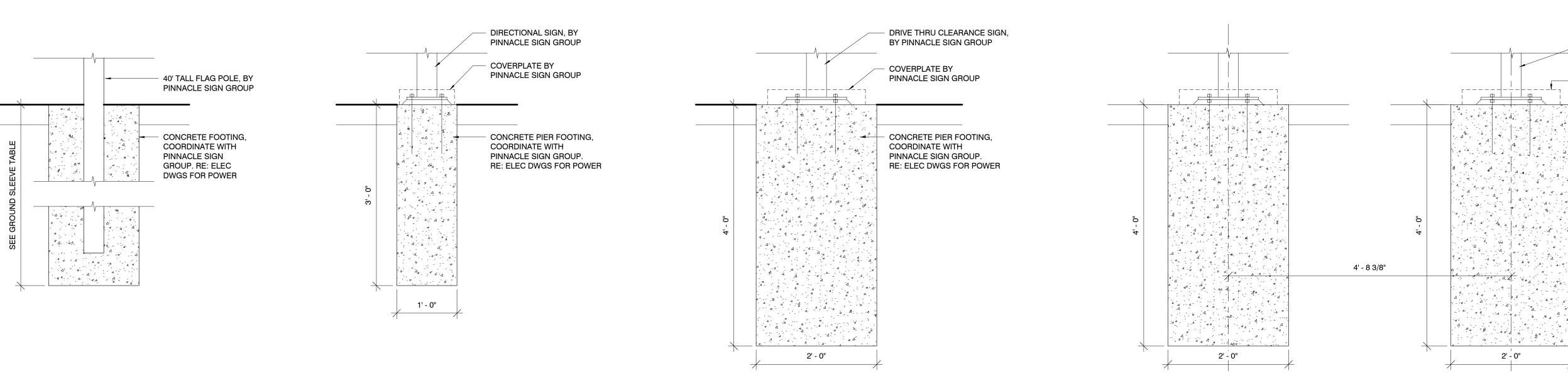
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Andy's Frozen Custard #204



FOOTING - DRIVE THRU CLEARANCE SIGN

1 TYP. FOOTINGS - SITE SIGNAGE ELEMENTS
1" = 1'-0"

FOOTING - DIRECTIONAL SIGN

FOOTING - FLAG POLE (NOT TO SCALE)

Architect: JEFFREY KLOCH License Number: A-2016005093

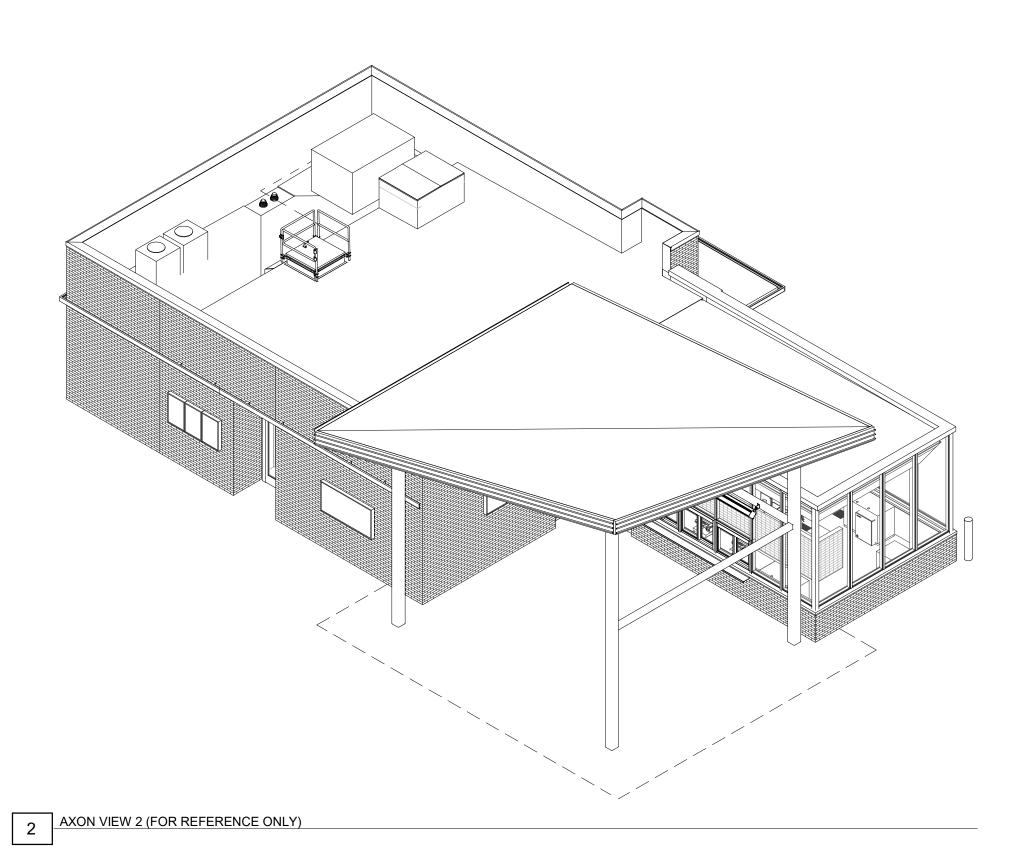
SITE SIGNAGE

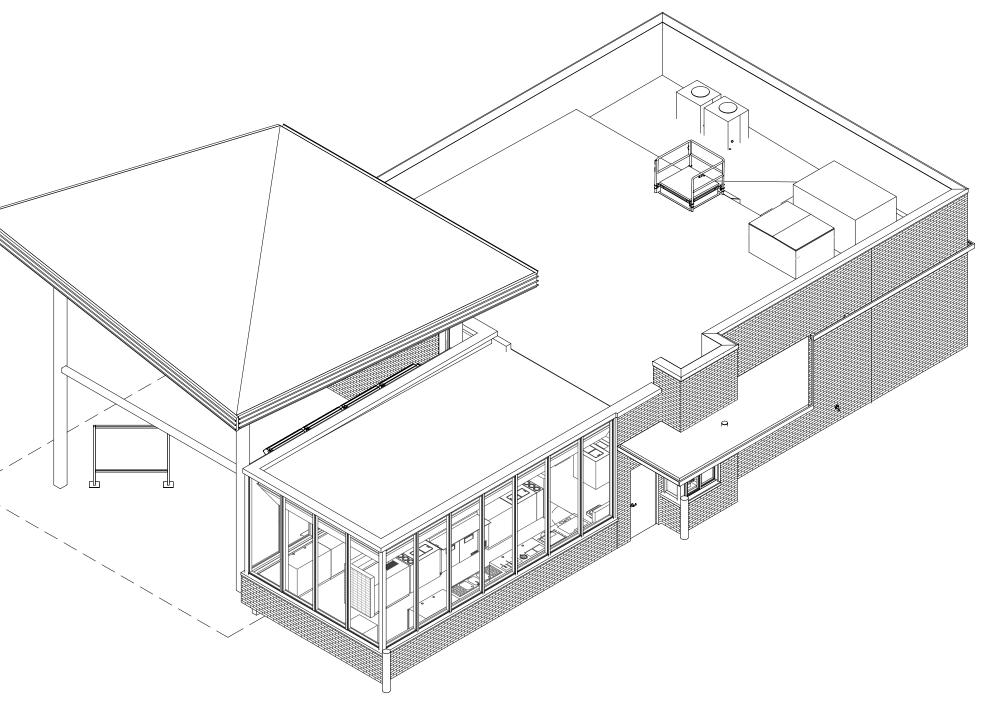
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EXTERIOR 3D VIEW - FRONT ENTRY VIEW (FOR REFERENCE ONLY)





1 AXON VIEW 1 (FOR REFERENCE ONLY)

Hufft

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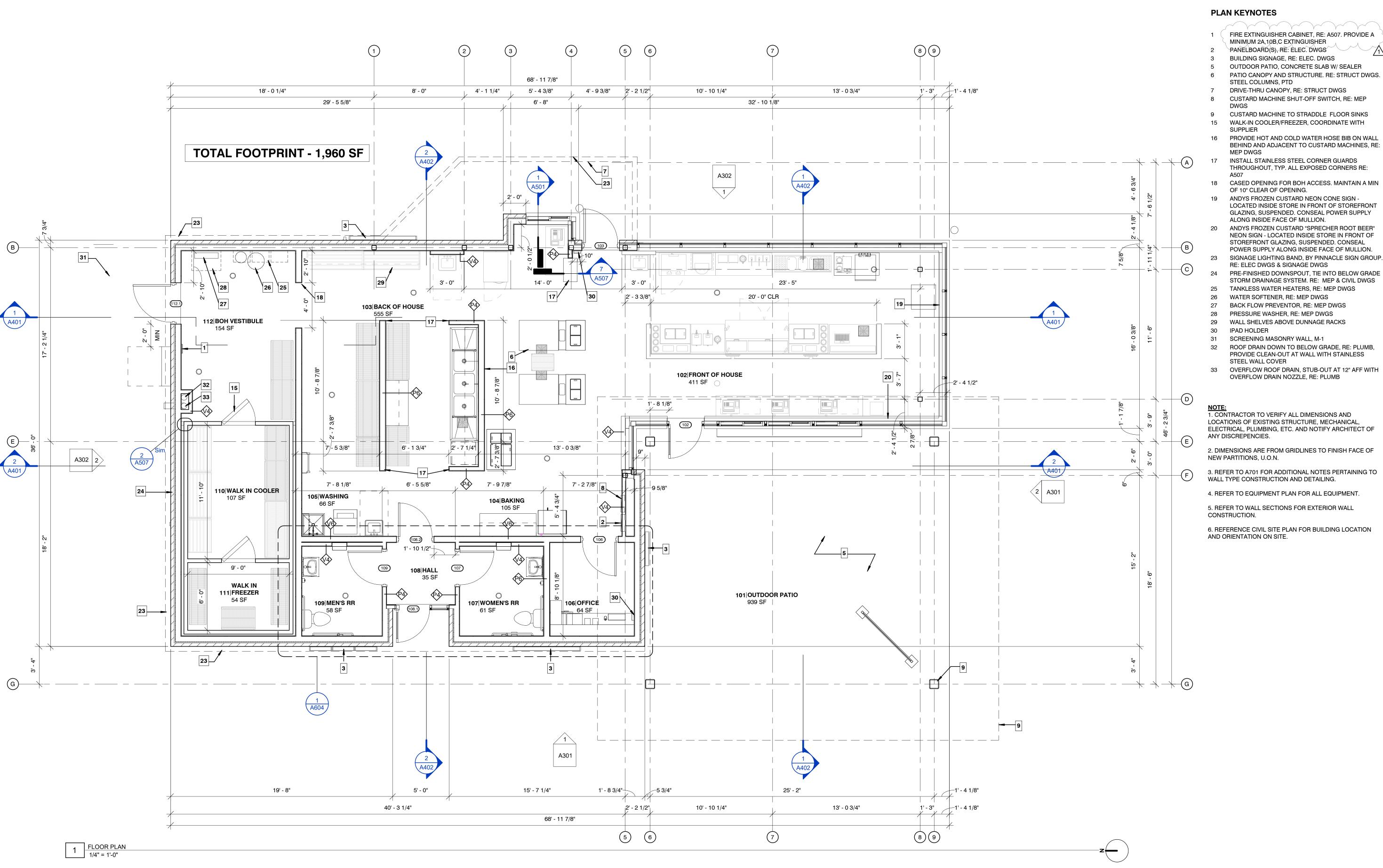


05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

AXON 3D VIEWS

A020



Hufft

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1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

ALONG INSIDE FACE OF MULLION. 20 ANDYS FROZEN CUSTARD "SPRECHER ROOT BEER" RTM ENGINEERING CONSULTANTS NEON SIGN - LOCATED INSIDE STORE IN FRONT OF 3333 E. Battelfield Road, Suite 1000 STOREFRONT GLAZING, SUSPENDED. CONSEAL Springfield, MO 65804 P: 417-881-0020

POWER SUPPLY ALONG INSIDE FACE OF MULLION. 23 SIGNAGE LIGHTING BAND, BY PINNACLE SIGN GROUP. RE: ELEC DWGS & SIGNAGE DWGS

PRE-FINISHED DOWNSPOUT, TIE INTO BELOW GRADE STORM DRAINAGE SYSTEM. RE: MEP & CIVIL DWGS

TANKLESS WATER HEATERS, RE: MEP DWGS

WATER SOFTENER, RE: MEP DWGS BACK FLOW PREVENTOR, RE: MEP DWGS

PRESSURE WASHER, RE: MEP DWGS

29 WALL SHELVES ABOVE DUNNAGE RACKS

31 SCREENING MASONRY WALL, M-1

32 ROOF DRAIN DOWN TO BELOW GRADE, RE: PLUMB, PROVIDE CLEAN-OUT AT WALL WITH STAINLESS STEEL WALL COVER

33 OVERFLOW ROOF DRAIN, STUB-OUT AT 12" AFF WITH OVERFLOW DRAIN NOZZLE, RE: PLUMB

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, ETC. AND NOTIFY ARCHITECT OF

2. DIMENSIONS ARE FROM GRIDLINES TO FINISH FACE OF

3. REFER TO A701 FOR ADDITIONAL NOTES PERTAINING TO WALL TYPE CONSTRUCTION AND DETAILING.

4. REFER TO EQUIPMENT PLAN FOR ALL EQUIPMENT.

5. REFER TO WALL SECTIONS FOR EXTERIOR WALL

6. REFERENCE CIVIL SITE PLAN FOR BUILDING LOCATION

CONSTRUCTION DOCUMENTS 05/01/2024

REVISION SCHEDULE:

NO. DATE 05/30/2024 Addendum 1

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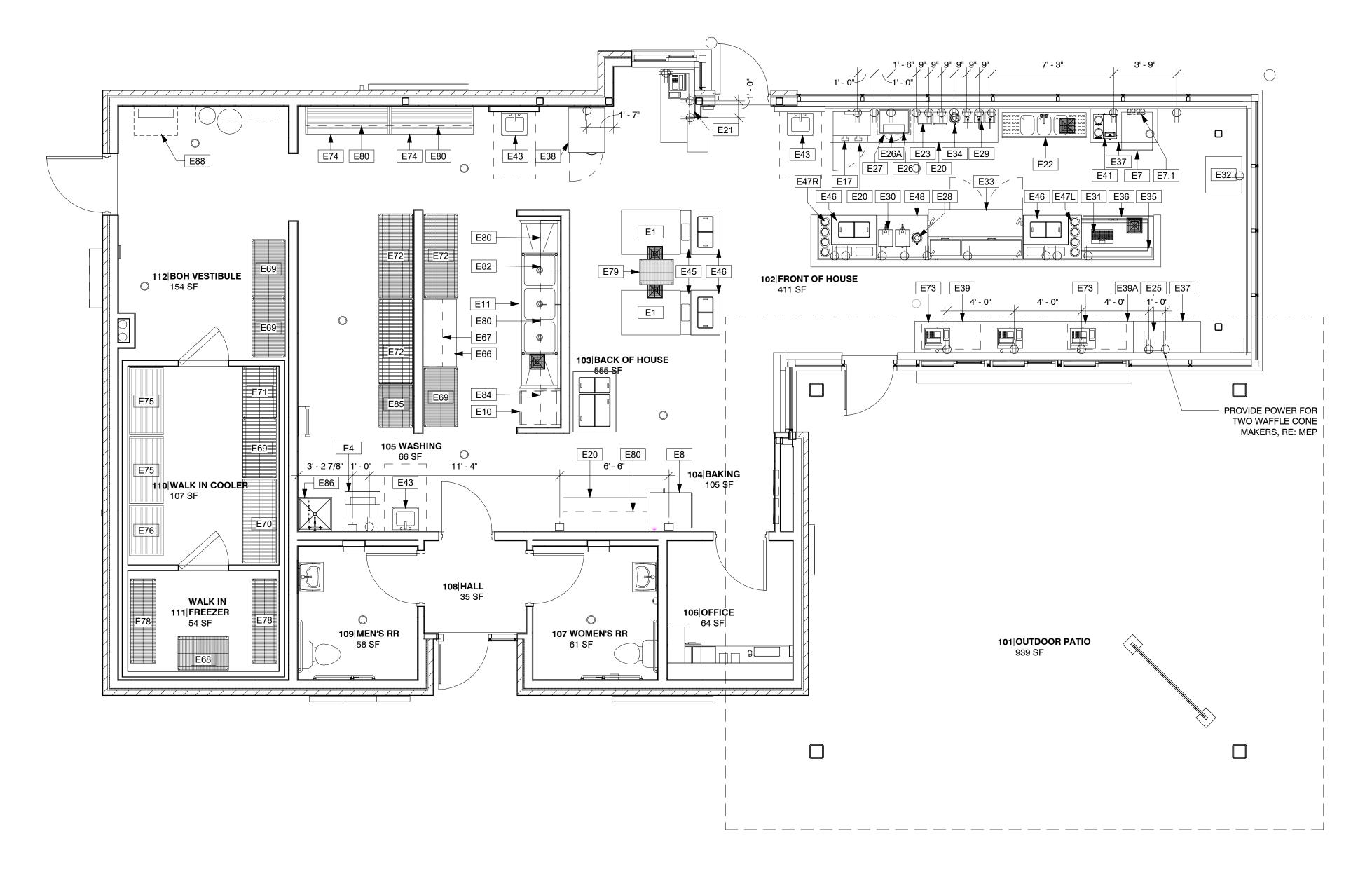
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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: WY Project Number: 736

FLOOR PLAN



EQUIPMENT AND FURNISHINGS PLAN

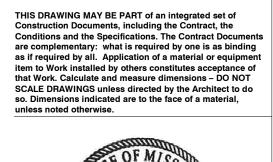
FOOD SERVICE EQUIPMENT SCHEDULE:

TEM # =1	2	EQUIPMENT CATEGORY CUSTARD MACHINE WASHER/DRYER	NOTES	MANUFACTURER SECO UNIMAC	MODEL # DBCM UTEE5ASP	PROVIDED BY SECO KITCHEN EQUIPMENT SUPPLIER	Andy's Frozen Custard #204
7	1	ICE MAKER W/ BIN	AIRCOOLED	HOSHIZAKI	KM-231B-AJ	KITCHEN EQUIPMENT SUPPLIER	630 NW Chipman Road Lee's Summit, Missouri 64086
7.1		FILTER SYSTEM, COMBINATION APPLICATIONS	PROVIDE AT ICE MACHINE	3M	DP190/DP195	KITCHEN EQUIPMENT SUPPLIER	OWNER:
10		OVEN, CONVECTION, ELECTRIC WAREWASHER,	W/ STAND, CASTER	BLODGETT	CTB SINGLE	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	ANDY'S FROZEN CUSTARD 211 E. Water Street
110		UNDERCOUNTER, HIGH TEMP		HOBART EAGLE GROUP	314-22-3-24	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	Springfield, MO 65806 www.eatandys.com
		SINK, SCULLERY, 3 COMPARTMENTS		EAGLE GROUP	314-22-3-24		ARCHITECT:
13	1	CO2 TANK MILK DISPENSER		SILVER KING	SKMAJ2	OWNER KITCHEN EQUIPMENT SUPPLIER	HUFFT 3612 Karnes Boulevard
20		TABLE, WORK; 24 X 60 TABLE, WORK; 24 X 52	W/ CASTERS ON BACK LINE W/ CASTERS ON BACK LINE	EAGLE GROUP	T2460SEB-BS T2460SEB-BS	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	Kansas City, MO 64111 P: 816-531-0200
22		COLLAR SINK	W/ GAGTERG ON BACK LINE	KMI	CUSTOM	KITCHEN EQUIPMENT SUPPLIER	www.hufft.com
23 25		BLENDER WAFFLE CONE MAKER	PROVIDE POWER FOR 2 WAFFLE	ASTRO BLENDER COBATCO	MD-10SSE-L	KITCHEN EQUIPMENT SUPPLIER COBATCO	STRUCTURAL: METTEMEYER ENGINEERING, LLC
26		MICROWAVE OVEN	CONE MAKERS PROGRAM PER ANDY'S FROZEN	PANASONIC	NE-1064	KITCHEN EQUIPMENT SUPPLIER	2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807
26A	1	MICROWAVE SHELF; 18 X 24	CUSTARD SPECIFICATION	METRO	1824NC	KITCHEN EQUIPMENT SUPPLIER	P: 417-890-8002
27		DRINK MIXER	STERLING MULTIMIXER	IMH PRODUCTS	9B3CH	IMH PRODUCTS	CIVIL/LANDSCAPE:
28	1	WARMER, FUDGE & SYRUP		SERVER PRODUCTS	82500	KITCHEN EQUIPMENT SUPPLIER	PHELPS ENGINEERING, INC. 1270 N. Winchester
29	3	LID W/ PUMP (FITS #10 CAN)		SERVER PRODUCTS	CP-10 83000	KITCHEN EQUIPMENT SUPPLIER	Olathe, Kansas 66061 P: 913.538.5821
30	2	WARMER, FUDGE & SYRUP		SERVER PRODUCTS	85070	KITCHEN EQUIPMENT SUPPLIER	MEP:
31	1	KEGERATOR	WATER SUPPLY AND CO2 TO CENTER TAP	BEVERAGE-AIR	DD48HC-1-S	KITCHEN EQUIPMENT SUPPLIER	RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000
32 33	1	BOTTLE COOLER REFRIGERATOR, WORKTOP	W/CASTERS	BEVERAGE-AIR TRUE	BB24HC-1-G-S TPP-67	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	Springfield, MO 65804 P: 417-881-0020
E34		W/RAIL WARMER, FUDGE & SYRUP		SERVER PRODUCTS	82060	KITCHEN EQUIPMENT SUPPLIER	
35		6"X48" SS SHELF	INCLUDED OUR PICESTAGE		OUOTON	KITCHEN EQUIPMENT SUPPLIER	
36		31.5 x 50 ENCLOSED WORKTABLE	INCLUDES CUP DISPENSER		CUSTOM	KITCHEN EQUIPMENT SUPPLIER	
37	2	TABLE, WORK; 24 X 48	WAFFLE CONE MAKER TABLE W/ BACKSPLASH, CASTERS, UNDERSHELF	EAGLE GROUP		KITCHEN EQUIPMENT SUPPLIER	
38	1	FREEZER, REACH-IN TABLE, WORK; 24 X 78	OPEN BASE - FRONT POS. PROVIDE	BEVERAGE-AIR EAGLE GROUP	HF1-1HS CUSTOM	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	
39A	1	TABLE, WORK; 24 X 78	2 GROMMET HOLES OPEN BASE - FRONT POS. PROVIDE 1 GROMMET HOLE	EAGLE GROUP	CUSTOM	KITCHEN EQUIPMENT SUPPLIER	
41		COFFEE MAKER, POUROVER		BUNN	13300.0002	KITCHEN EQUIPMENT SUPPLIER	
43	3	HAND SINK	PROVIDE ADA UNDERSINK PIPE PROTECTION WRAP	EAGLE	HSA-10-F	KITCHEN EQUIPMENT SUPPLIER	
45 46		CUSTARD MACHINE SHELF LOW TEMPERATURE CHEST		KEMLEE MFG GLOBAL	CMSHELF 2SF	CONCEPT SERVICES CONCEPT SERVICES	
-40 /		CABINET		REFRIGERATION.	201	CONCERT SERVICES	
47L			LEFT SIDED CUP HOLDERS	KEMLEE MFG		CONCEPT SERVICES	ISSUE:
47R 48		L-SHAPED ICE CREAM TABLE TABLE, WORK; 30 X 36	RIGHT SIDED CUP HOLDERS	KEMLEE MFG EAGLE GROUP	T3036SE-BS	CONCEPT SERVICES CONCEPT SERVICES	CONSTRUCTION DOCUMENT
49	1	LOW TEMPERATURE CHEST CABINET		GLOBAL REFRIGERATION. INC.	6DF	CONCEPT SERVICES	05/01/2024
		WALK-IN FREEZER			CUSTOM	KITCHEN EQUIPMENT SUPPLIER	REVISION SCHEDULE:
66		TABLE, WORK; 24 X 48 SHELVING, WIRE; 14 X 48	TABLE GREEN; WALL SHELF, RAIL TOP	EAGLE GROUP METRO	ST6R5-2448SSK	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	NO. DATE ISSUE
68		SHELVING, WIRE; 24 X 36	GREEN EPOXY COATED, W/ S-CLIPS.		2436NK3	KITCHEN EQUIPMENT SUPPLIER	
69			CLIP TO E78 GREEN EPOXY COATED, W/	METRO		KITCHEN EQUIPMENT SUPPLIER	
70	1	POSTS SHELVING, WIRE; 24 X 60, 72"	CASTERS GREEN EPOXY COATED, W/	METRO	2460NK3	KITCHEN EQUIPMENT SUPPLIER	
71	1		GREEN EPOXY COATED, W/	METRO	2436NK3	KITCHEN EQUIPMENT SUPPLIER	
72	3	POSTS SHELVING, WIRE; 24 X 60	CASTERS W/ CASTERS	METRO	2460NC	KITCHEN EQUIPMENT SUPPLIER	
73	2	POSTS; 74" SHELVING, WIRE; 18 X 42 POSTS; 27"	2 TIER - POS	METRO	1824NC	KITCHEN EQUIPMENT SUPPLIER	
	2	RACK, DUNNAGE; 20 X 60	WALK IN COOLED OUGTON COLE	EAGLE GROUP	CUSTOM	KITCHEN EQUIPMENT SUPPLIER	THIS DRAWING WAS PREPARED under the Architect's supervision, and is an "Instrument of Service" intended
		RACK, DUNNAGE; 28 X 48	WALK-IN COOLER - CUSTOM, SOLID	EAGLE GROUP	CUSTOM	KITCHEN EQUIPMENT SUPPLIER	solely for use by our Client on this project. The Architect disclaims responsibility for the existing building structure existing site conditions, existing construction elements,
		RACK, DUNNAGE; 24 X 36 SHELVING, WIRE; 18 X 60	WALK-IN COOLER - CUSTOM, SOLID TOP GREEN EPOXY COATED	EAGLE GROUP METRO	CUSTOM 1860NK3	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	drawings or documents not signed and sealed by the Architect. The information, ideas and designs indicated including the overall form, arrangement and compositio spaces or building elements - constitutes the original,
79	1	SHELVING, WIRE; 18 X 24 POSTS; 27"	W/ CASTERS & SOLID TOP SHELF - CUSTARD MACHINE	METRO	1824NC	KITCHEN EQUIPMENT SUPPLIER	confidential, and unpublished Work and property of the Architect. Receipt or possession of this Drawing confers right in, or license to disclose to others the subject matter contained herein for any but authorized purposes.
		SHELVING, WIRE; 14 X 60	GREEN; WALL SHELF, RAIL TOP	METRO	1460NK3	KITCHEN EQUIPMENT SUPPLIER	contained herein for any but authorized purposes. Unauthorized reproduction, distribution or dissemination in whole or in part – is strictly prohibited. All rights reser
82		SHELVING, WIRE; 14 X 36 SHELVING, WIRE; 14 X 24	GREEN; WALL SHELF GREEN; WALL SHELF	METRO METRO	1436NK3	KITCHEN EQUIPMENT SUPPLIER KITCHEN EQUIPMENT SUPPLIER	© 2024 by Hufft Projects LLC.
85	1	SHELVING, WIRE; 24 X 30 POSTS; 74"	W/ CASTERS	METRO	2430NC	KITCHEN EQUIPMENT SUPPLIER	THIS DRAWING MAY BE PART of an integrated set of Construction Documents, including the Contract, the Conditions and the Specifications. The Contract Docum
86		UTILITY SHELF	WITH MOP HANGER	EAGLE GROUP	USO814-16/3	KITCHEN EQUIPMENT SUPPLIER	are complementary: what is required by one is as bindi as if required by all. Application of a material or equipm
88	1	WATER PRESSURE WASHER	WALL MOUNTED PER MANUFACTURER'S DETAIL AND MOUNTING ACCESSORIES. 3/4" SCHEDULE 80 GALVANIZED PIPING,	HOTSY	7143	OWNER	item to Work installed by others constitutes acceptance that Work. Calculate and measure dimensions – DO NO SCALE DRAWINGS unless directed by the Architect to d so. Dimensions indicated are to the face of a material, unless noted otherwise.
:89	1	SAFE	RE: MEP UNDER OFFICE DESK	CSS	B3121DM-SR2-S G4440	KITCHEN EQUIPMENT SUPPLIER	JEFFREY M.

1) PROVIDE BOBRICK B-211 SOAP DISPENSER AND BOBRICK B-262 PAPER TOWEL DISPENSER (WALL

MOUNT) AT EACH HAND SINK

2) REFERENCE KITCHEN DWGS FOR ADDITIONAL CLARIFICATIONS



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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

EQUIPMENT & FURNISHINGS PLAN

18' - 0 1/4" 13' - 0 3/4" 13' - 0 3/4" 14' - 6" 10' - 4 1/2" 4' - 0" 11" 4' - 1" CONFRIM ALL 'FS' 2' - 6" 3' - 0" DON'T INTERFERE WITH EQUIP. LEGS, TYPICAL 7' - 2 7/8" CUSTARD MACHINE WASH DOWN 0 1' - 8" ____5' - 4" ___ 2'-10" 2'-7" 3'-6" 11' - 10" 6' - 11" FREEZER INSULATED SLAB -13' - 7" 11' - 3" 2' - 2 1/2", 10' - 10 1/4" 13' - 0 3/4"

DIMENSIONED PLUMBING PLAN

1 1/4" = 1'-0"

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

HUFFT 3612 Karnes Boulevard

ARCHITECT:

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com

STRUCTURAL: METTEMEYER ENGINEERING, LLC

2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL/LANDSCAPE:

PHELPS ENGINEERING, INC.

1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

CONSTRUCTION DOCUMENTS 05/01/2024

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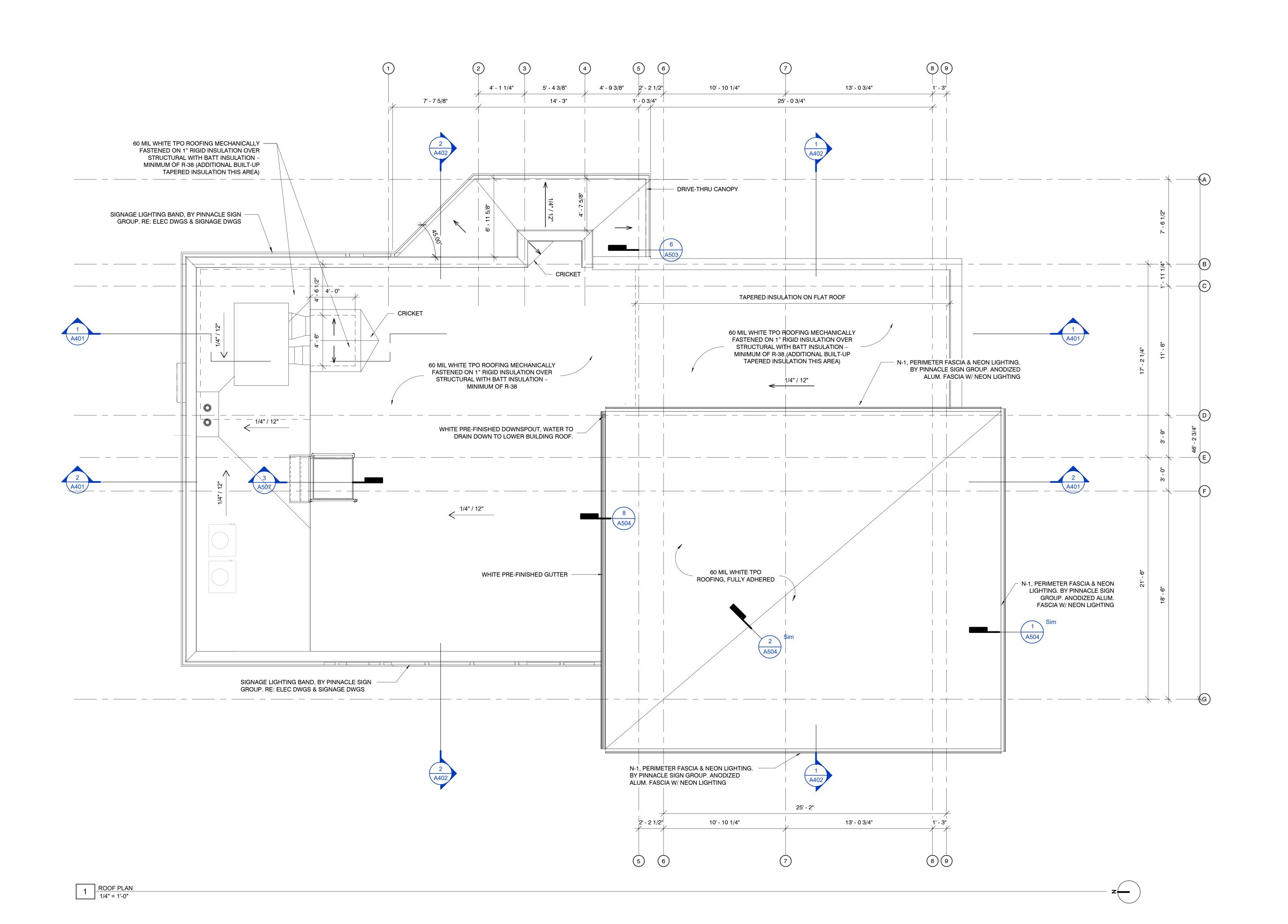
05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

DIMENSIONED PLUMBING

NOTE:
DIMENSIONS ARE FROM COLUMN GRID LINE TO CENTERLINE OF FIXTURE OR PLUMBING WALL. DIMENSIONS TO PLUMBING FIXTURES ARE PROVIDED FOR CONVENIENCE. CONTRACTOR RESPONSIBLE TO VERIFY LOCATIONS DURING ROUGH-IN. REFERENCE PLUMBING DRAWINGS AND EQUIPMENT DRAWINGS FOR ADDITIONAL CLARIFICATIONS.

> FS = FLOOR SINK FD = FLOOR DRAIN



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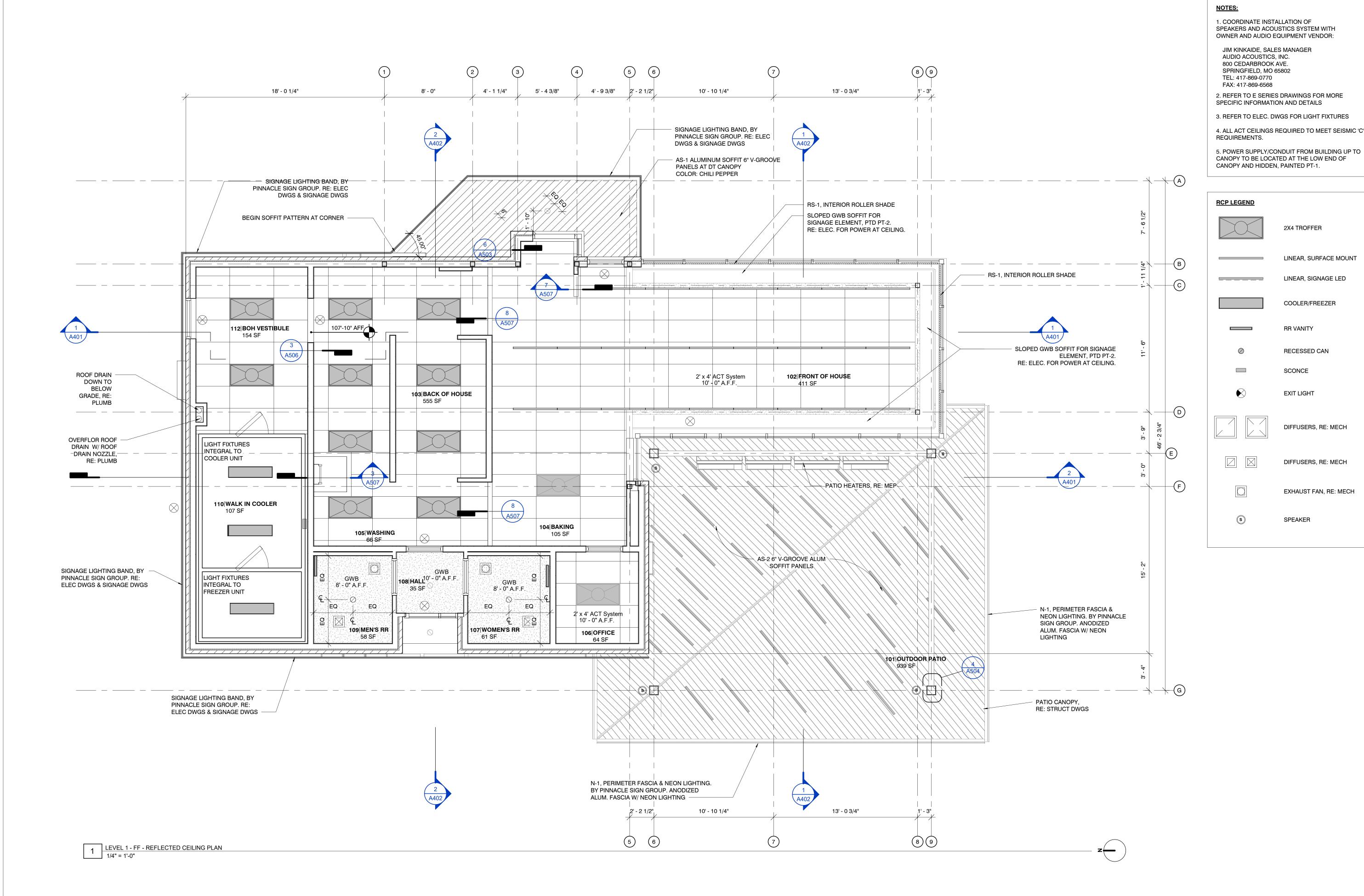
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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

ROOF PLAN



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PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD 211 E. Water Street

www.eatandys.com ARCHITECT:

HUFFT 3612 Karnes Boulevard Kansas City, MO 64111

Springfield, MO 65806

P: 816-531-0200 www.hufft.com

STRUCTURAL: METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

2X4 TROFFER

LINEAR, SURFACE MOUNT

LINEAR, SIGNAGE LED

COOLER/FREEZER

RR VANITY

SCONCE

EXIT LIGHT

SPEAKER

DIFFUSERS, RE: MECH

DIFFUSERS, RE: MECH

EXHAUST FAN, RE: MECH

RECESSED CAN

CIVIL/LANDSCAPE:

PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

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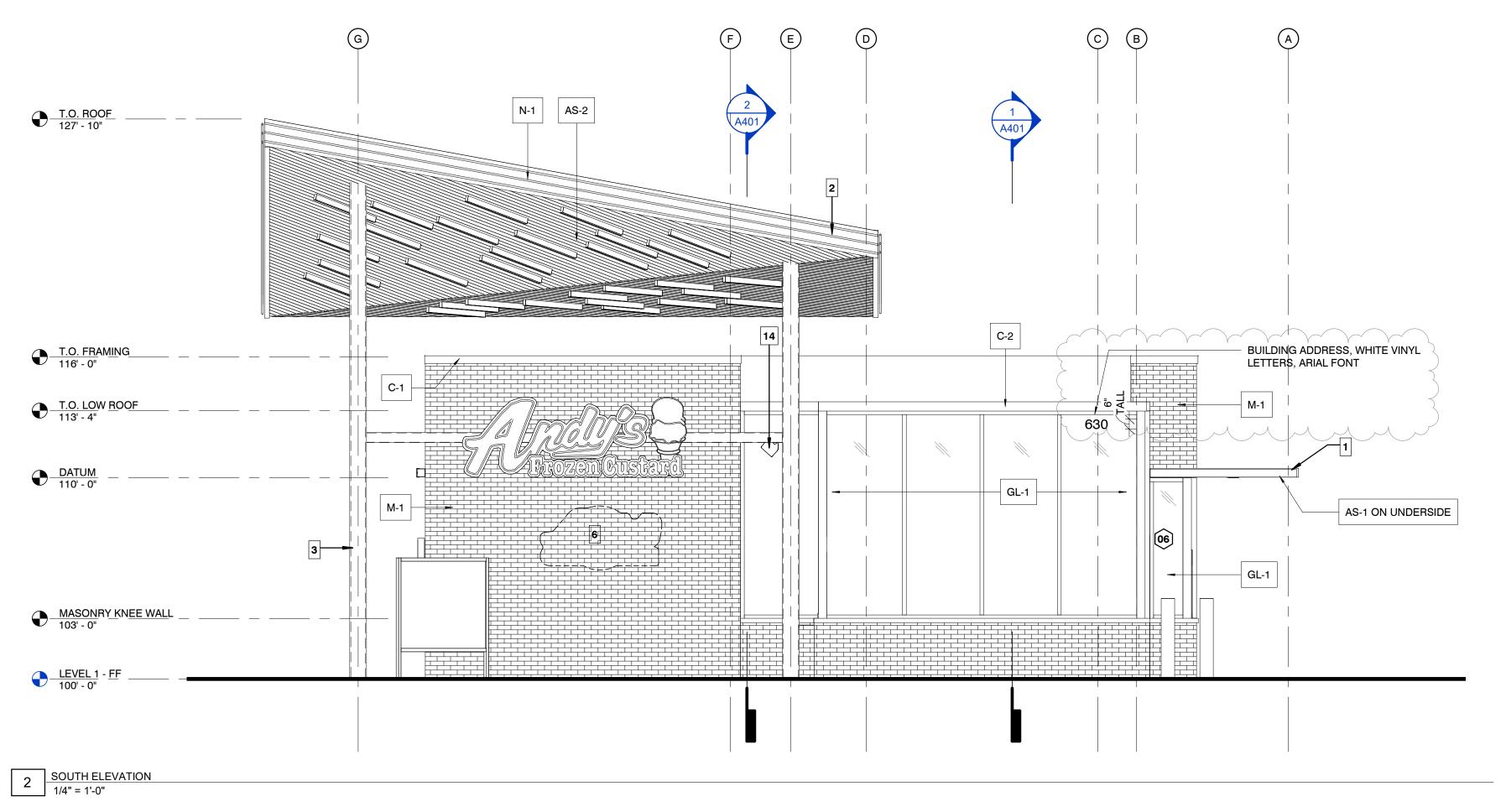
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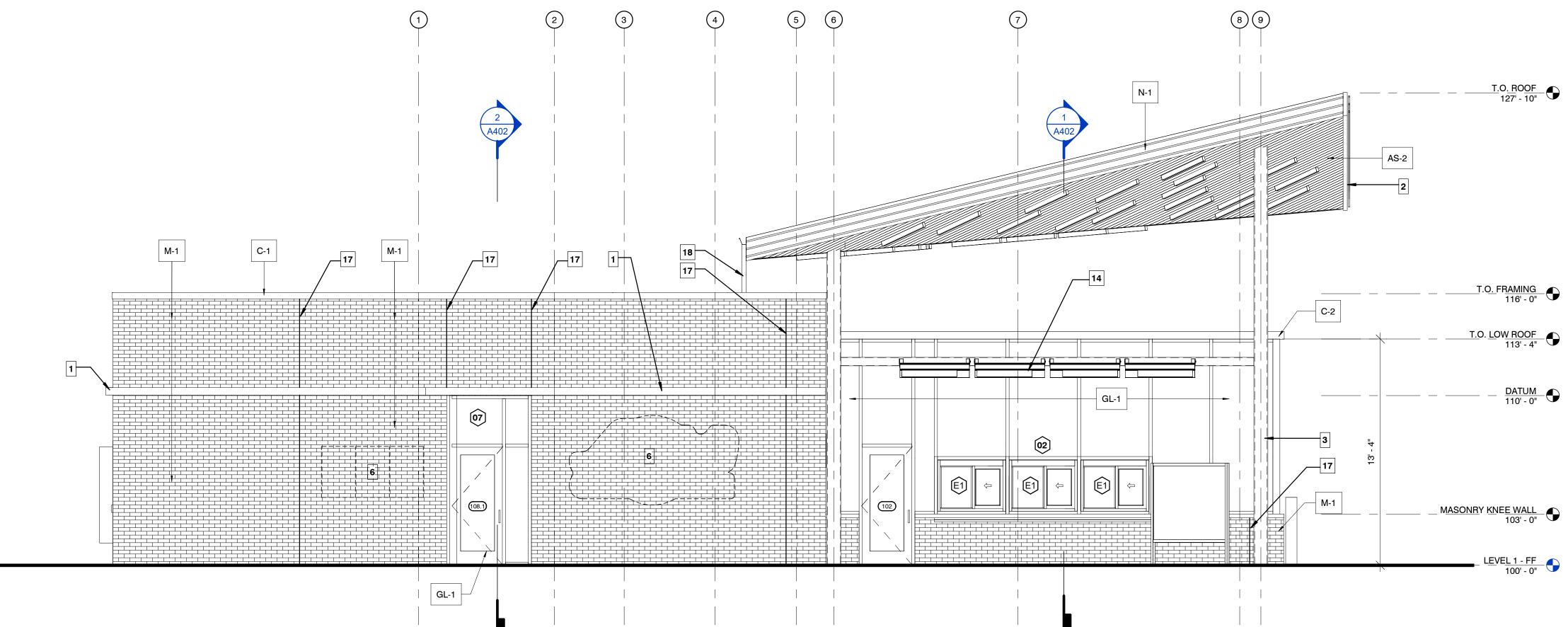


05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736 REFLECTED CEILING PLAN

A105





1/4" = 1'-0"

ELEVATION KEYNOTES

- DRIVE-THRU CANOPY & SIGNAGE LIGHTING BAND. SIGNAGE LIGHTING BAND PROVIDED BY
- PINNACLE SIGN GROUP PATIO CANOPY AND STRUCTURE. RE: STRUCT
- EXPOSED STRUCTURAL FRAMING TO BE PAINTED, PTD PT-1
- HM DOOR PTD. TO MATCH MASONRY WALL BUILDING SIGNAGE, RE: ELEC. DWGS & SIGNAGE DWGS. ALL SIGNAGE PROVIDED BY PINNACLE
- SIGN GROUP 7 FULLY AUTOMATIC DRIVE-THRU WINDOW, RE:
- ELECTRICAL EQUIP., PAINTED TO MATCH M-1 (RE: MANUF. SPECIFICATIONS), RE: MEP DWGS
- EMERGENCY LIGHT FIXTURE
- 12 DOOR CHIME
- 13 WALL HYDRANT, RE: PLUMB. DWGS 14 EXTERIOR HEATER MOUNTED TO STEEL FRAME.
- RE: MEP
- 15 60 MIL WHITE TPO ROOFING, FULLY ADHERED
- 16 KEYNOTE NOT USED
- MASONRY CONTROL JOINT

VF-1 VINYL FILM:

18 PRE-FINISHED GUTTER & DOWNSPOUT. DRAIN DOWN TO LOWER BUILDING ROOF. COORDINATE FASCIA W/ PINNACLE SIGN GROUP

EXTERIOR FINISH SCHEDULE

<u>#</u>	DESCRIPTION
AS-1	PATIO CANOPY MATERIAL: 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: CHILI PEPPER
AS-2	PATIO CANOPY MATERIAL: 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: BONE WHITE
C-1	COPING/ROOF EDGE TYPE 1: PRE-FINISHED ALUMINUM CAP AND SILL FLASHING AT MASONRY VENEER AND , TYP. COLOR: MATCH MASONRY COLOR
C-2	COPING/ROOF EDGE TYPE 2: ANNODIZED ALUMINUM CAP AND SILL FLASHING AT STOREFRONT, TYP. COLOR: MATCH STOREFRONT FRAMING
GL-1	GLAZING TYPE 1: STOREFRONT, KAWNEER 451T COLOR: CLEAR ANODIZED
M-1	MASONRY TYPE 1: GLEN GERY MODULAR BRICK COLOR: EBONITE VELOUR GROUT: TO MATCH BRICK
N-1	PERIMETER FASCIA & SHIELDED LED LIGHTING: BY PINNACLE SIGN GROUP ANODIZED ALUM. FASCIA W/ SHIELDED LED LIGHTING

WHITE VINYL FILM ON INSIDE FACE OF GLASS

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806

www.eatandys.com ARCHITECT:

HUFFT

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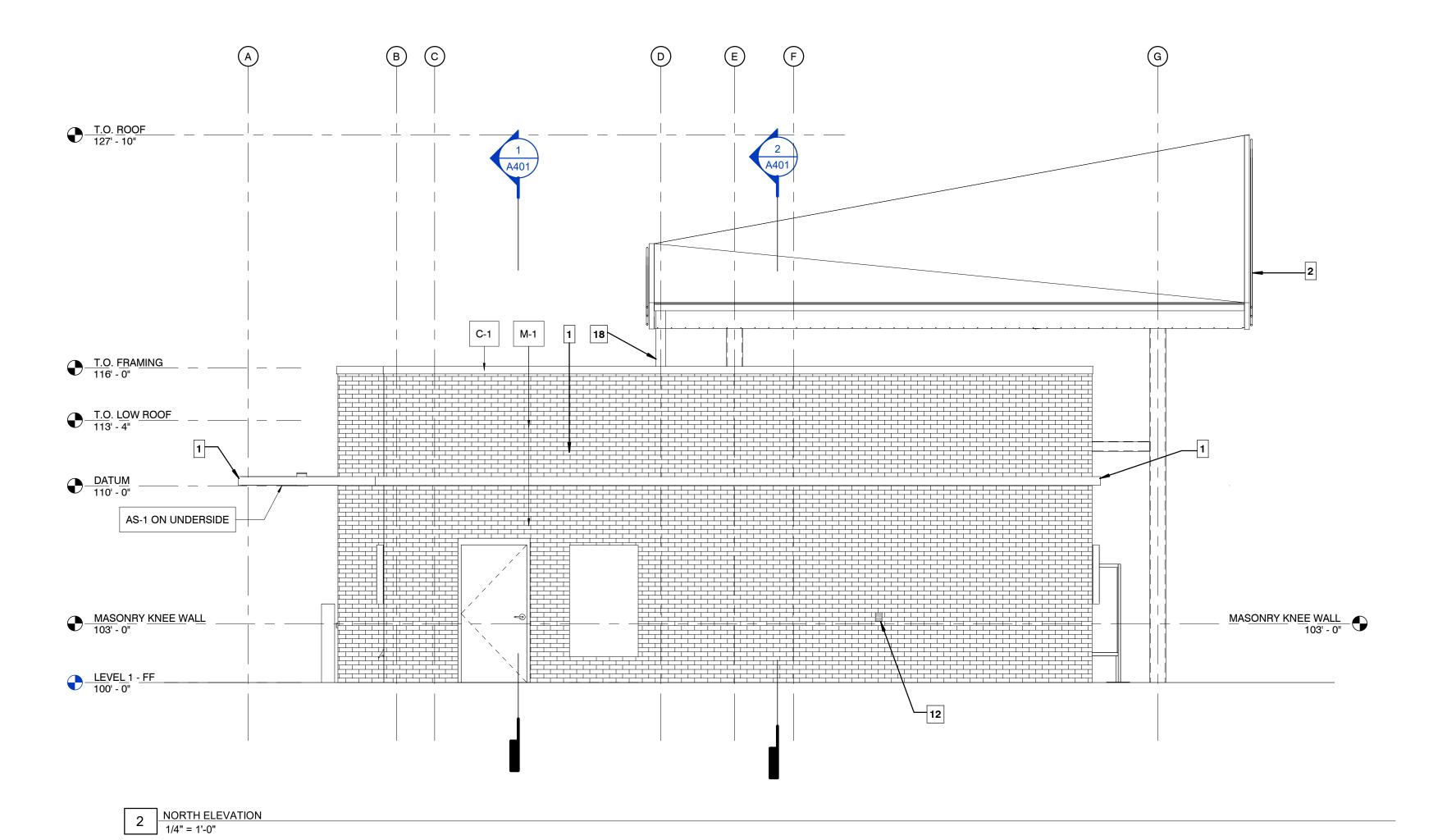
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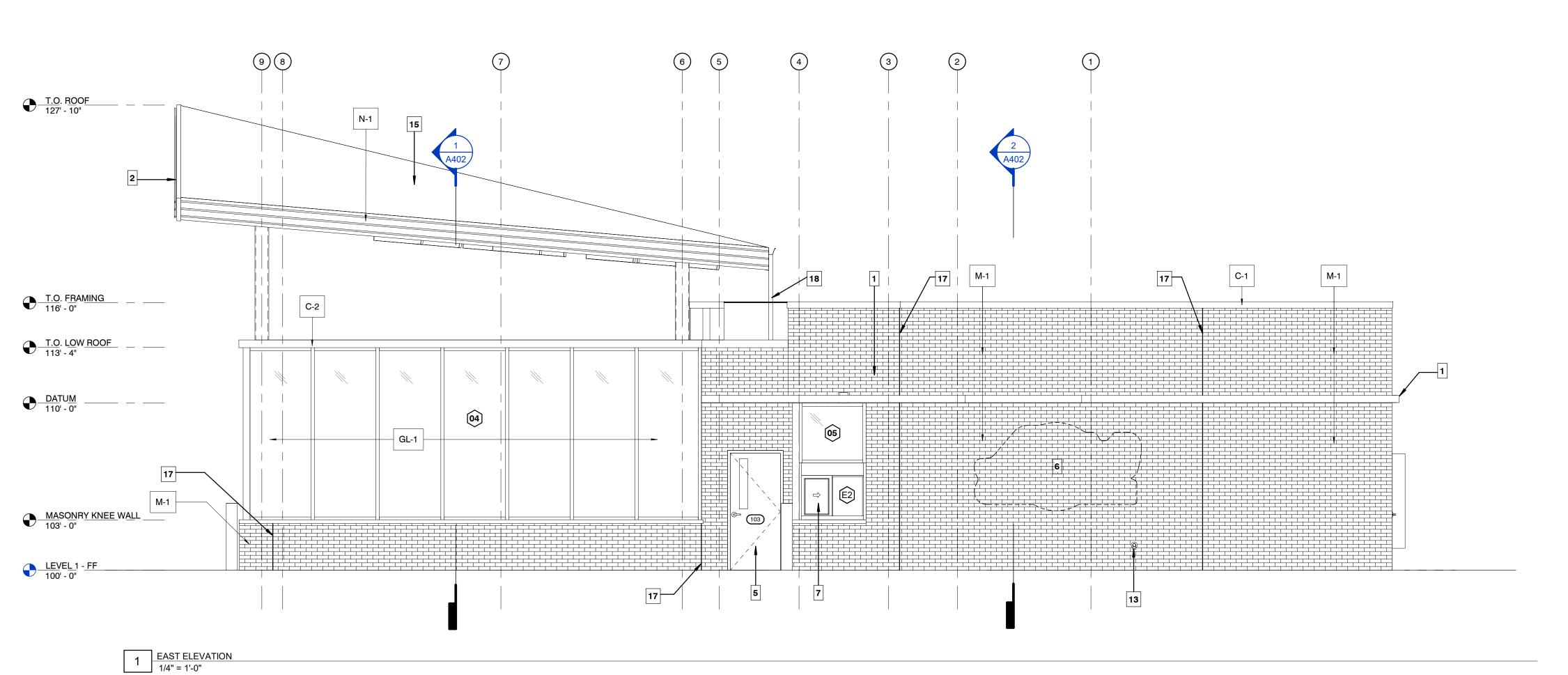
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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736 **ELEVATIONS**





ELEVATION KEYNOTES

- DRIVE-THRU CANOPY & SIGNAGE LIGHTING BAND. SIGNAGE LIGHTING BAND PROVIDED BY
- PINNACLE SIGN GROUP PATIO CANOPY AND STRUCTURE. RE: STRUCT
- EXPOSED STRUCTURAL FRAMING TO BE PAINTED,
- PTD PT-1 HM DOOR PTD. TO MATCH MASONRY WALL BUILDING SIGNAGE, RE: ELEC. DWGS & SIGNAGE
- DWGS. ALL SIGNAGE PROVIDED BY PINNACLE SIGN GROUP 7 FULLY AUTOMATIC DRIVE-THRU WINDOW, RE:
- ELEC DWGS ELECTRICAL EQUIP., PAINTED TO MATCH M-1 (RE:
- MANUF. SPECIFICATIONS), RE: MEP DWGS
- EMERGENCY LIGHT FIXTURE
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- 14 EXTERIOR HEATER MOUNTED TO STEEL FRAME. RE: MEP
- 15 60 MIL WHITE TPO ROOFING, FULLY ADHERED
- KEYNOTE NOT USED
- MASONRY CONTROL JOINT

DESCRIPTION

LIGHTING

VF-1 VINYL FILM:

18 PRE-FINISHED GUTTER & DOWNSPOUT. DRAIN DOWN TO LOWER BUILDING ROOF.

1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821 COORDINATE FASCIA W/ PINNACLE SIGN GROUP

2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

PHELPS ENGINEERING, INC.

Hufft

PROJECT INFORMATION:

211 E. Water Street Springfield, MO 65806

www.eatandys.com

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

ARCHITECT:

www.hufft.com

STRUCTURAL:

CIVIL/LANDSCAPE:

HUFFT

Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

METTEMEYER ENGINEERING, LLC

EXTERIOR FINISH SCHEDULE

AS-1	PATIO CANOPY MATERIAL: 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: CHILI PEPPER
AS-2	PATIO CANOPY MATERIAL: 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: BONE WHITE
C-1	COPING/ROOF EDGE TYPE 1: PRE-FINISHED ALUMINUM CAP AND SILL FLASHING AT MASONRY VENEER AND , TYP. COLOR: MATCH MASONRY COLOR
C-2	COPING/ROOF EDGE TYPE 2: ANNODIZED ALUMINUM CAP AND SILL FLASHING AT STOREFRONT, TYP. COLOR: MATCH STOREFRONT FRAMING
GL-1	GLAZING TYPE 1: STOREFRONT, KAWNEER 451T COLOR: CLEAR ANODIZED
M-1	MASONRY TYPE 1: GLEN GERY MODULAR BRICK COLOR: EBONITE VELOUR GROUT: TO MATCH BRICK
N-1	PERIMETER FASCIA & SHIELDED LED LIGHTING BY PINNACLE SIGN GROUP ANODIZED ALUM. FASCIA W/ SHIELDED LED

WHITE VINYL FILM ON INSIDE FACE OF GLASS

CONSTRUCTION DOCUMENTS

REVISION SCHEDULE: NO. DATE

05/01/2024

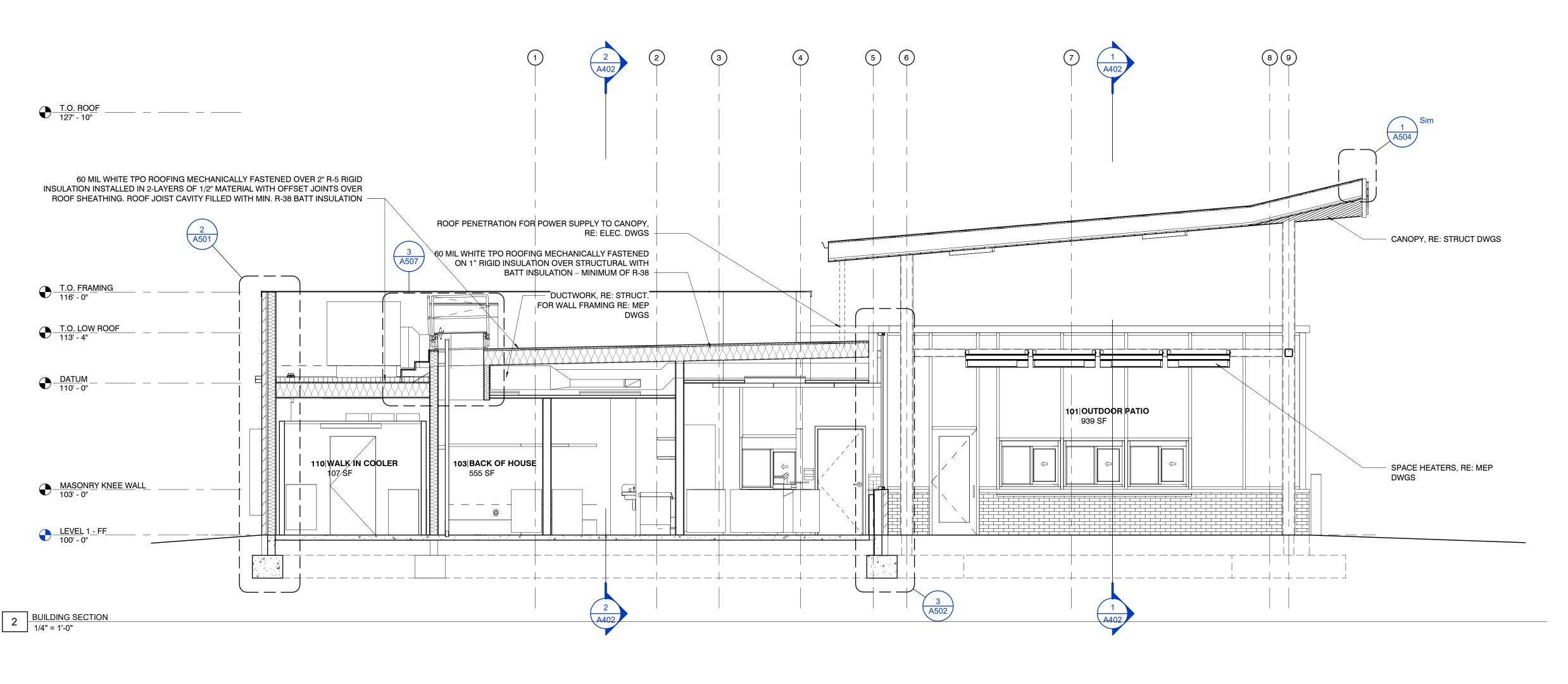
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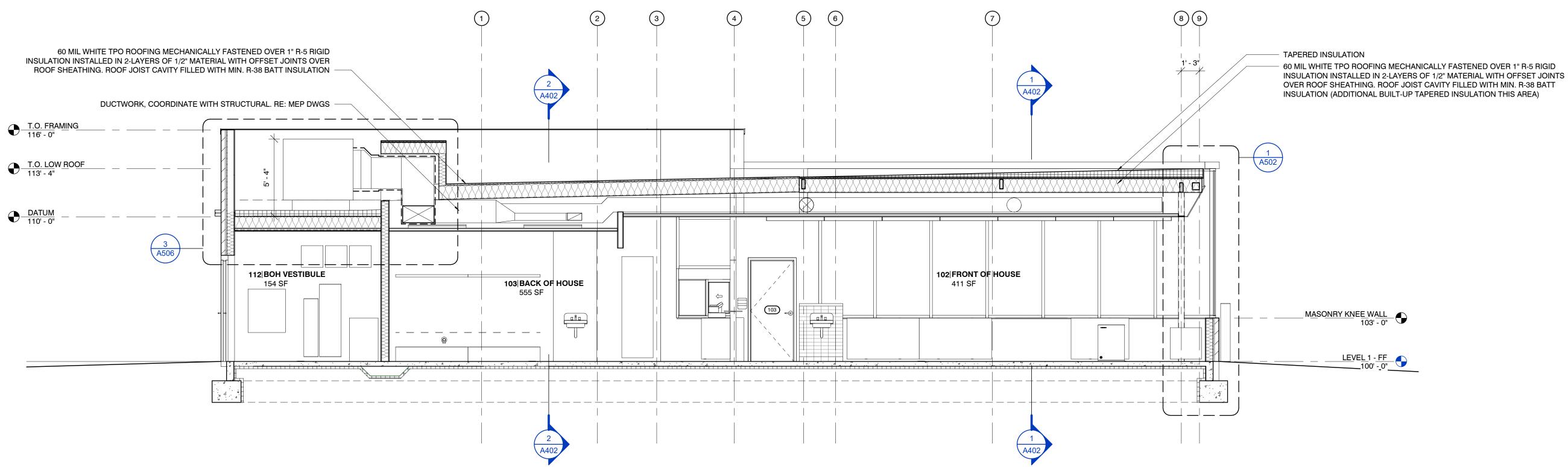
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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736 **ELEVATIONS**





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Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD
211 E. Water Street

Springfield, MO 65806
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// ANDSCADE

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MEP:
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P: 417-881-0020

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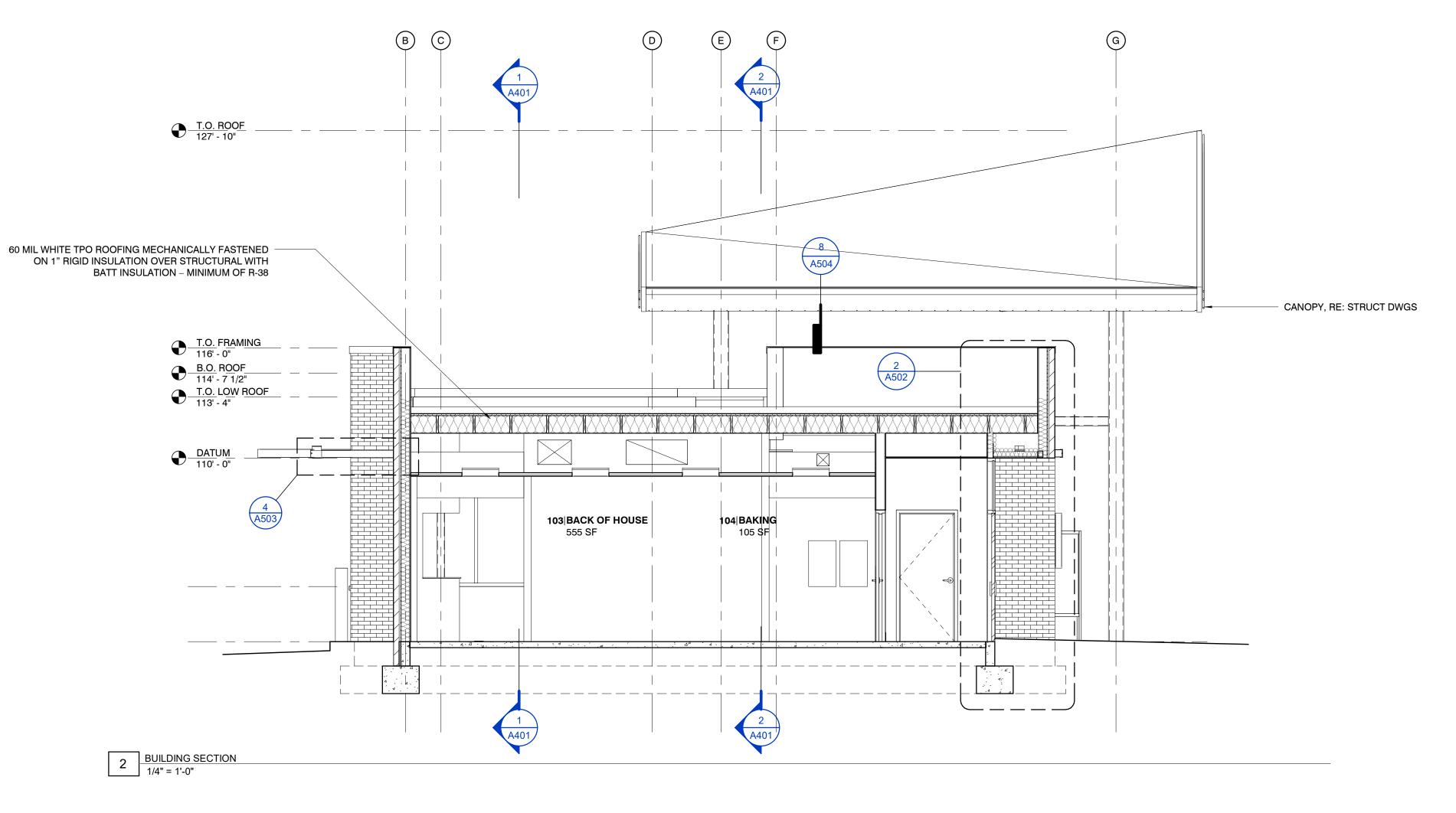
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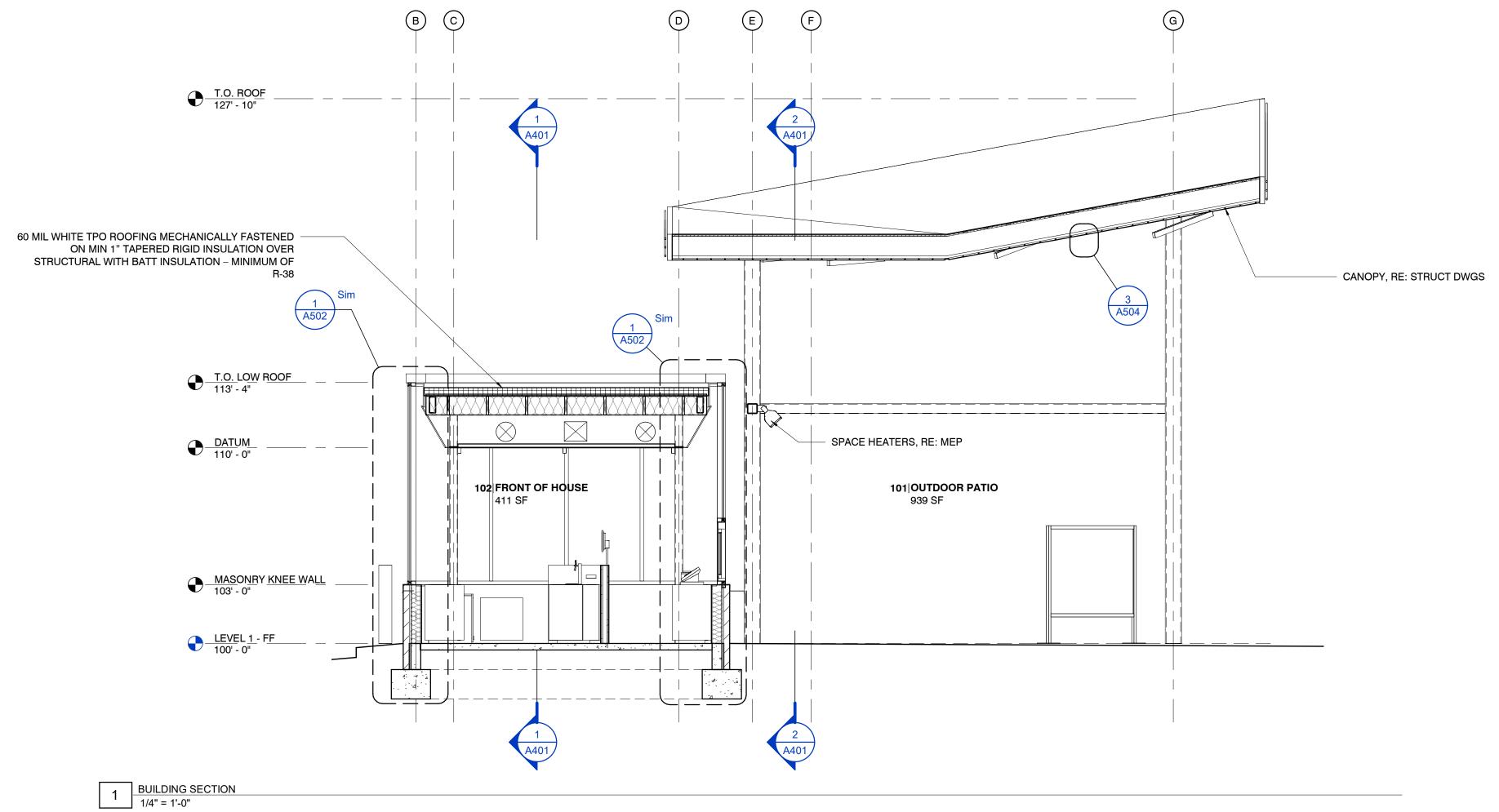
Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

SECTIONS

A401

1 BUILDING SECTION
1/4" = 1'-0"





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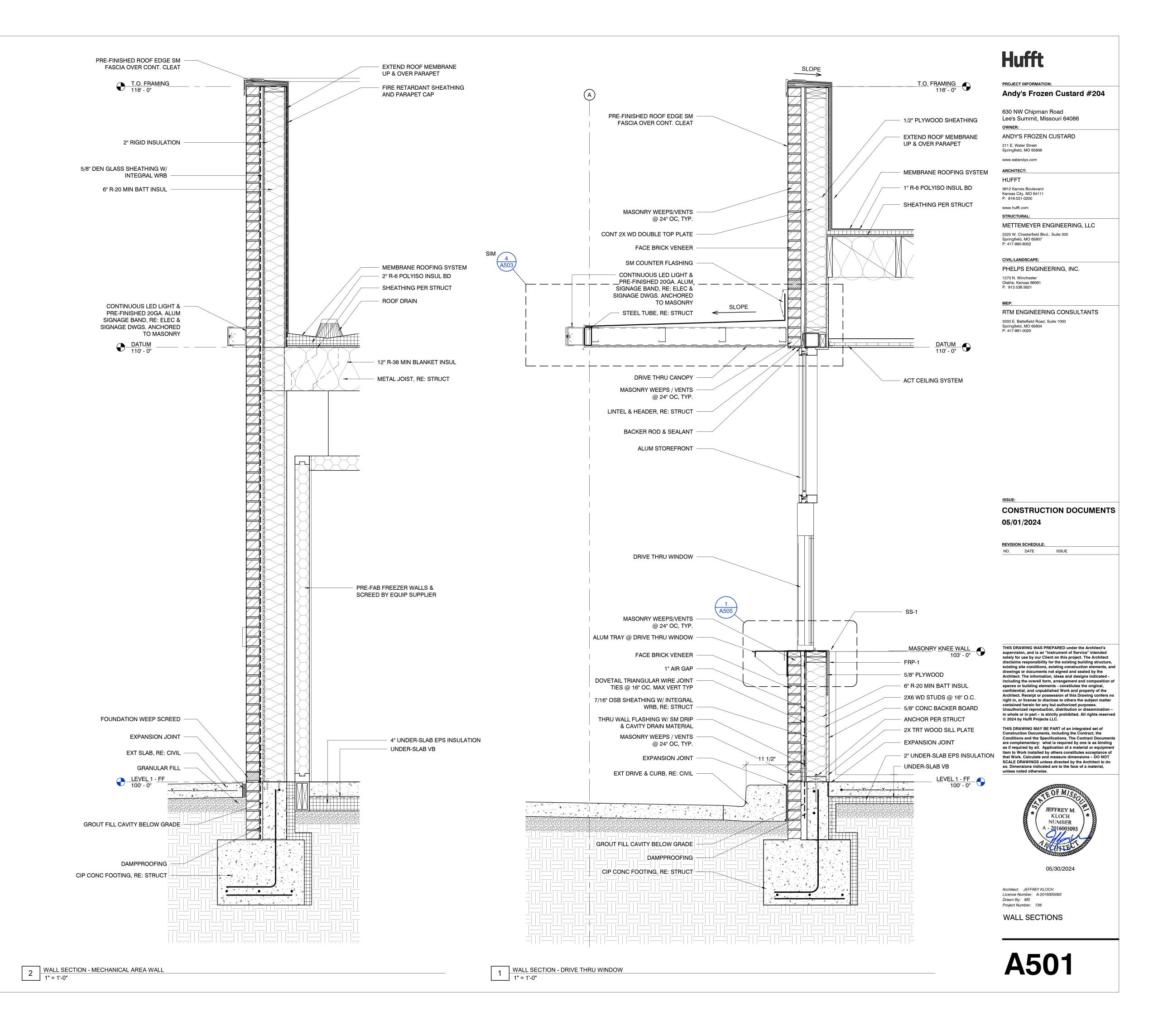
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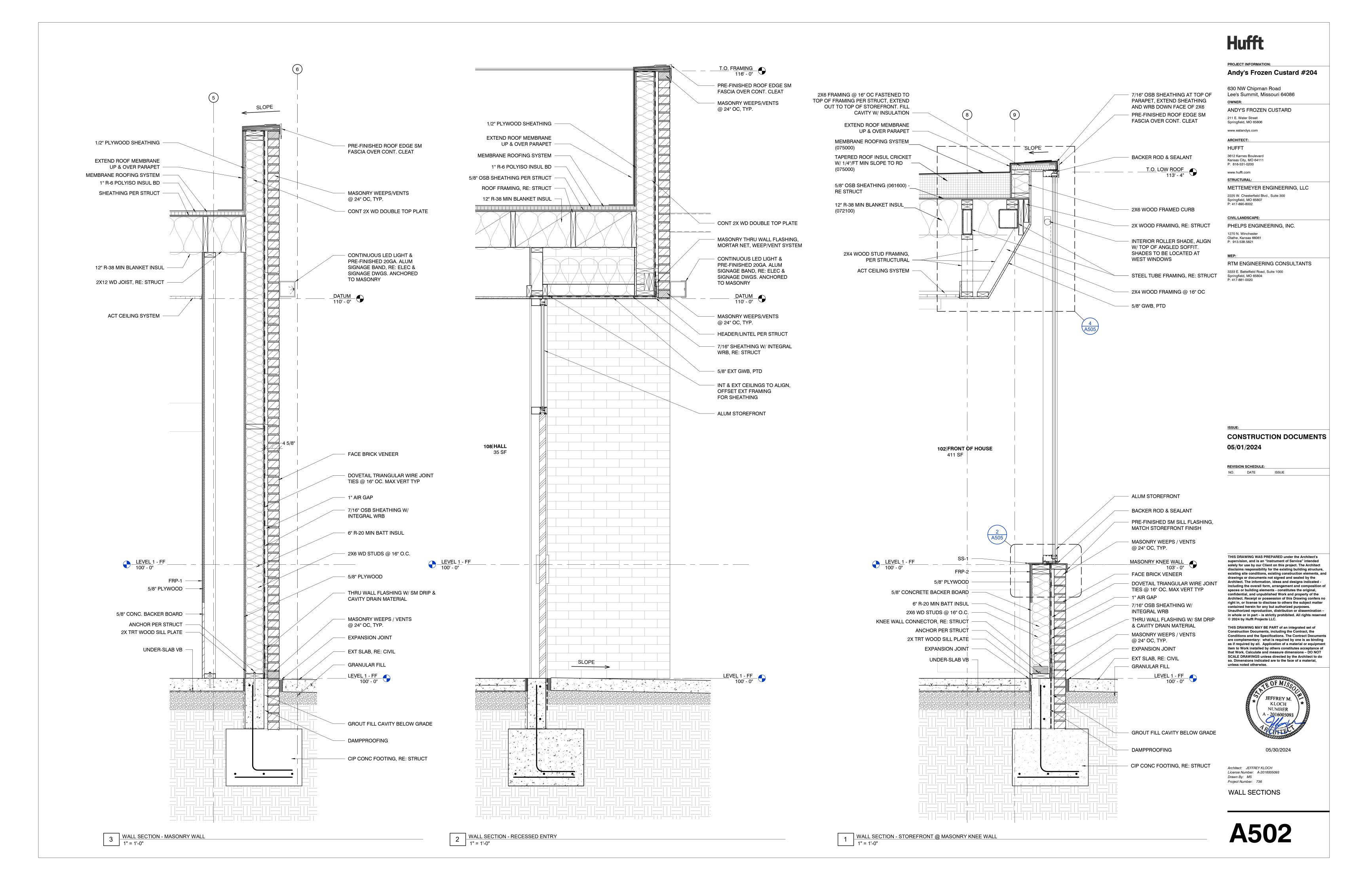


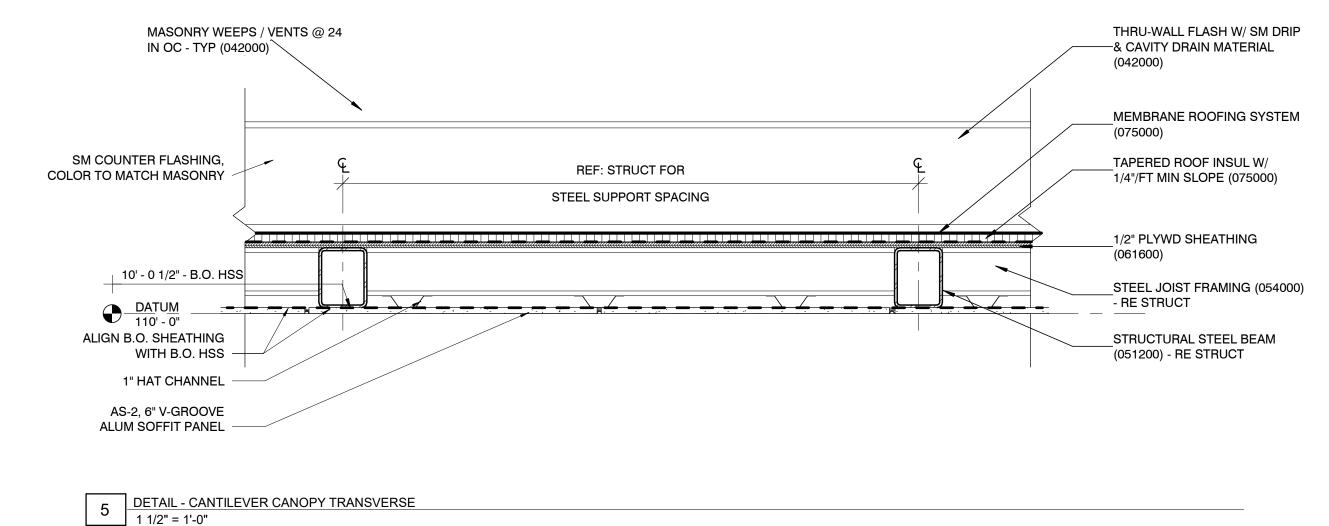
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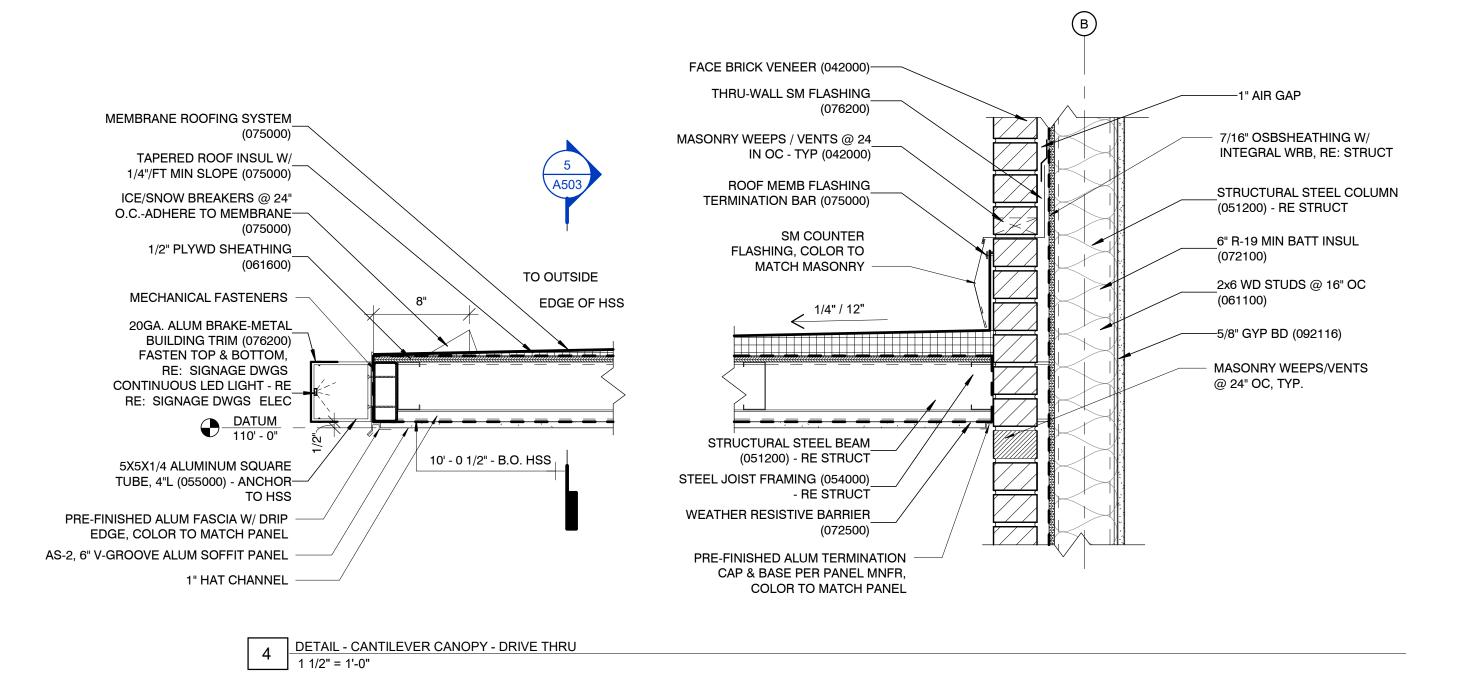
Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

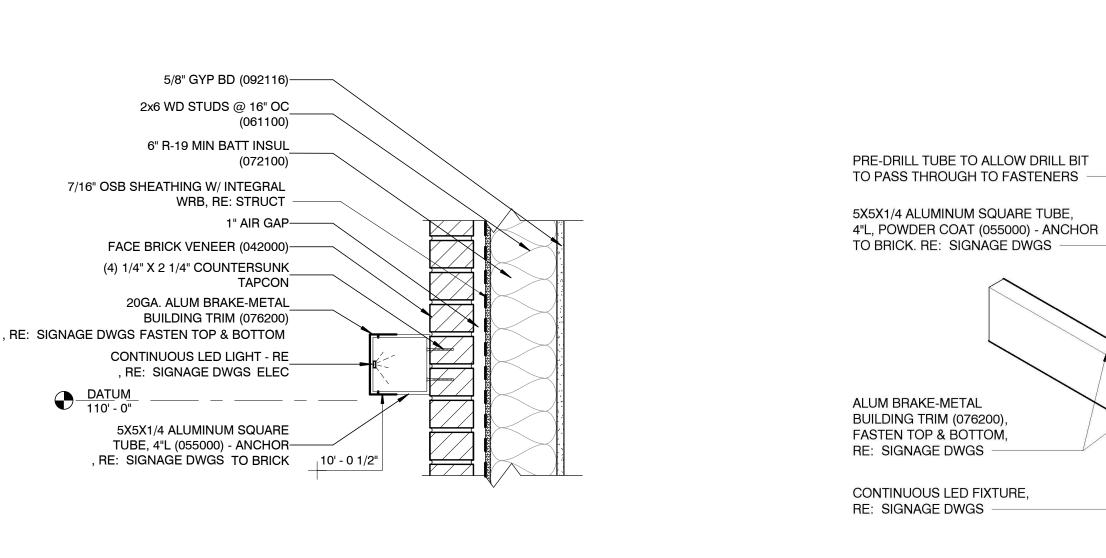
SECTIONS











RE: SIGNAGE DWGS CONTINUOUS LED FIXTURE, RE: SIGNAGE DWGS NOTE: COORDINATE SIGNAGE BAND DETAILING WITH PINNACLE SIGN GROUP 1 AXON - SIGNAGE / LIGHT BAND

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PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT 3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com

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CIVIL/LANDSCAPE: PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

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Architect: JEFFREY KLOCH

License Number: A-2016005093 Drawn By: MS Project Number: 736

DETAILS - DRIVE THRU CANOPY

6 DRIVE THRU CANOPY STEEL @ MASONRY WALL
3" = 1'-0"

ROOF MEMBRANE COVER TAPE

2x6 FRAMING / STUDS-

(061600)

(075000)

1/2" PLYWD SHEATHING

MEMBRANE ROOFING SYSTEM

EXTEND FULLY-ADHERED ROOF

ROOF EDGE SM FASCIA OVER

-MEMB UP/OVER PARAPET

CONT. CLEAT (076200)

MASONRY WEEPS/VENTS

-2x12 WD JOISTS / RAFTERS

_12" R-38 MIN BLANKET INSUL

STRUCTURAL STEEL BEAM

-2X WD BLOCKING (061000)

(051200) - RE STRUCT

-5/8" GYP BD (092116)

-5/8" GYP BD (092116)

_ACOUST PANEL CEILING - RE

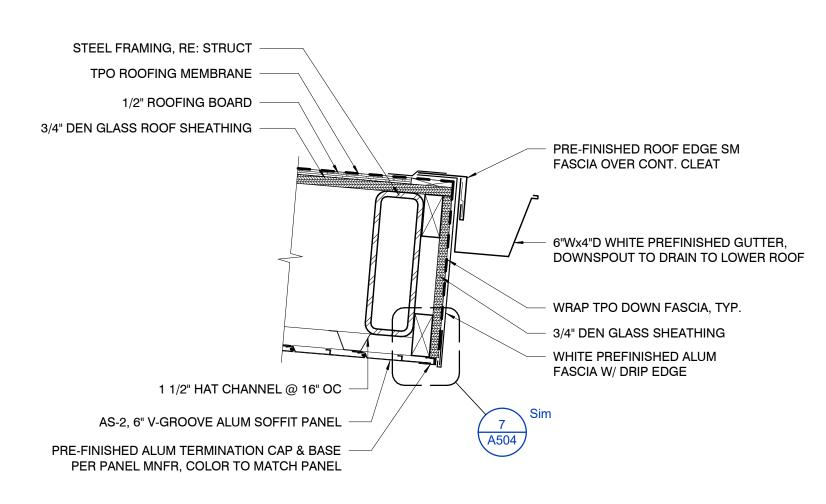
MAT/FINISH SCHED (095100)

RE STRUCT

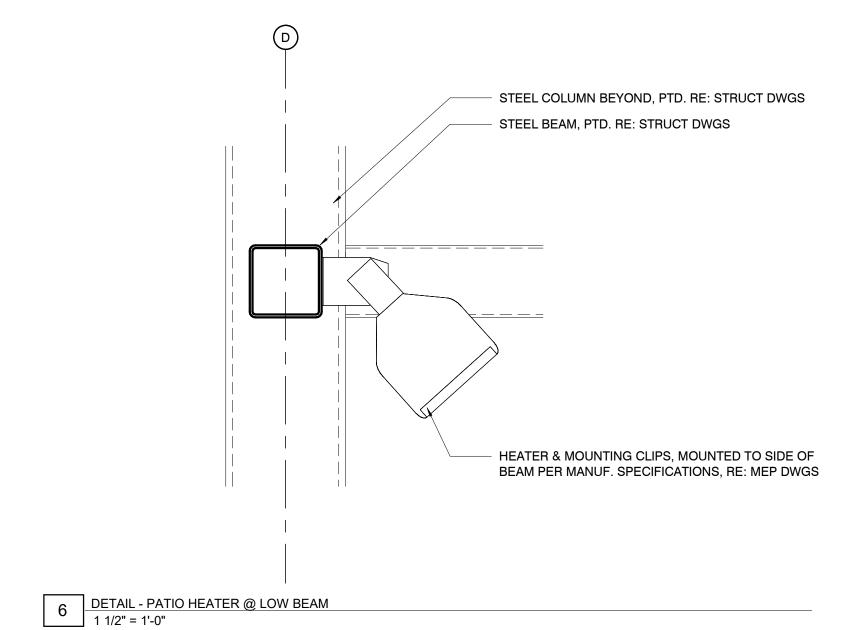
@ 24" OC, TYP.

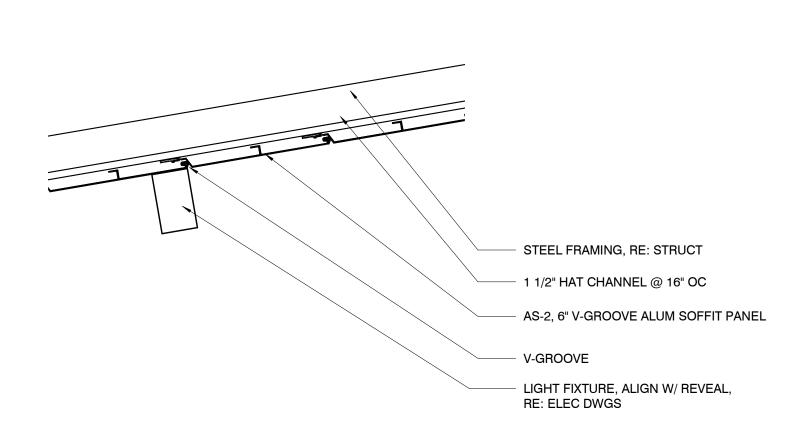
(075000)

2 DETAIL - LIGHT BAND 1 1/2" = 1'-0"

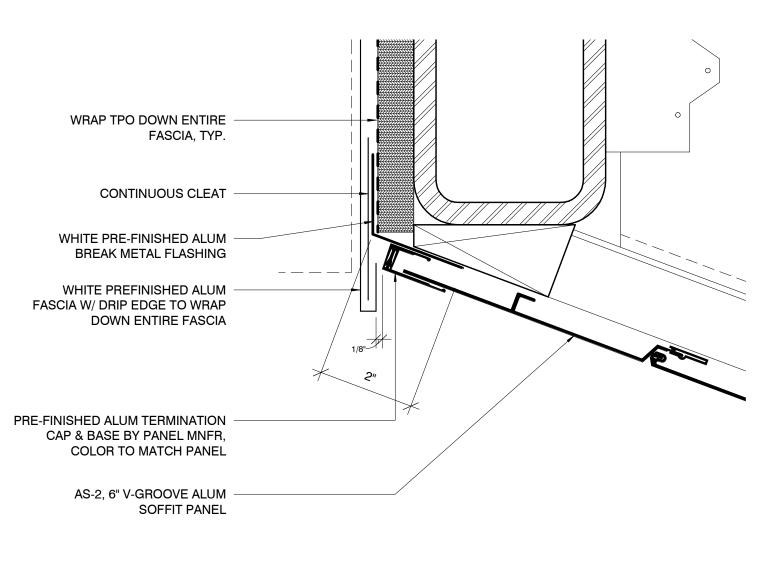


8 DETAIL - CANOPY ROOF DRAINAGE
1 1/2" = 1'-0"

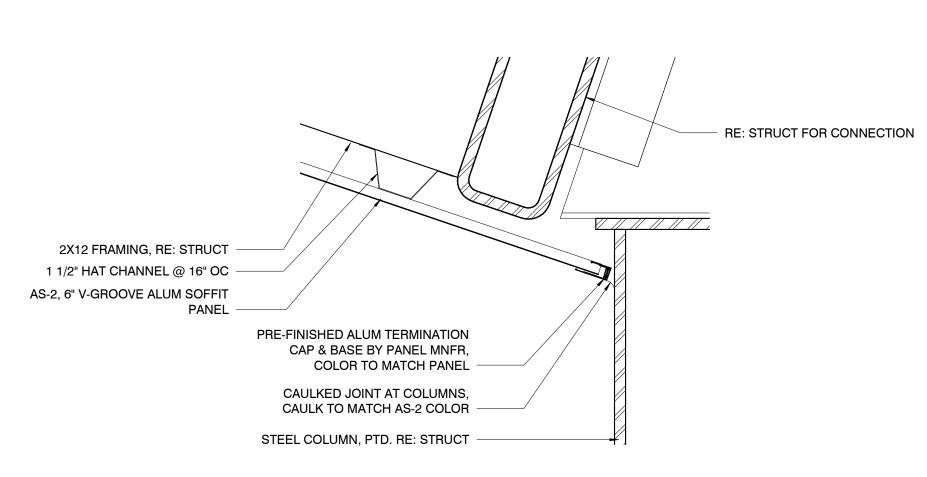


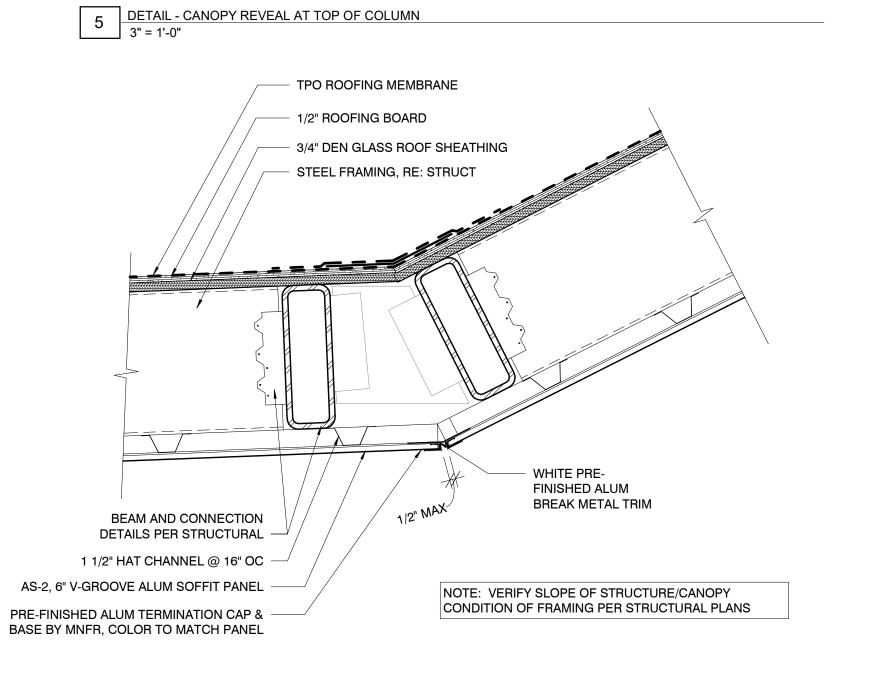


3 DETAIL - TYP. REVEAL @ CANOPY PANEL
3" = 1'-0"

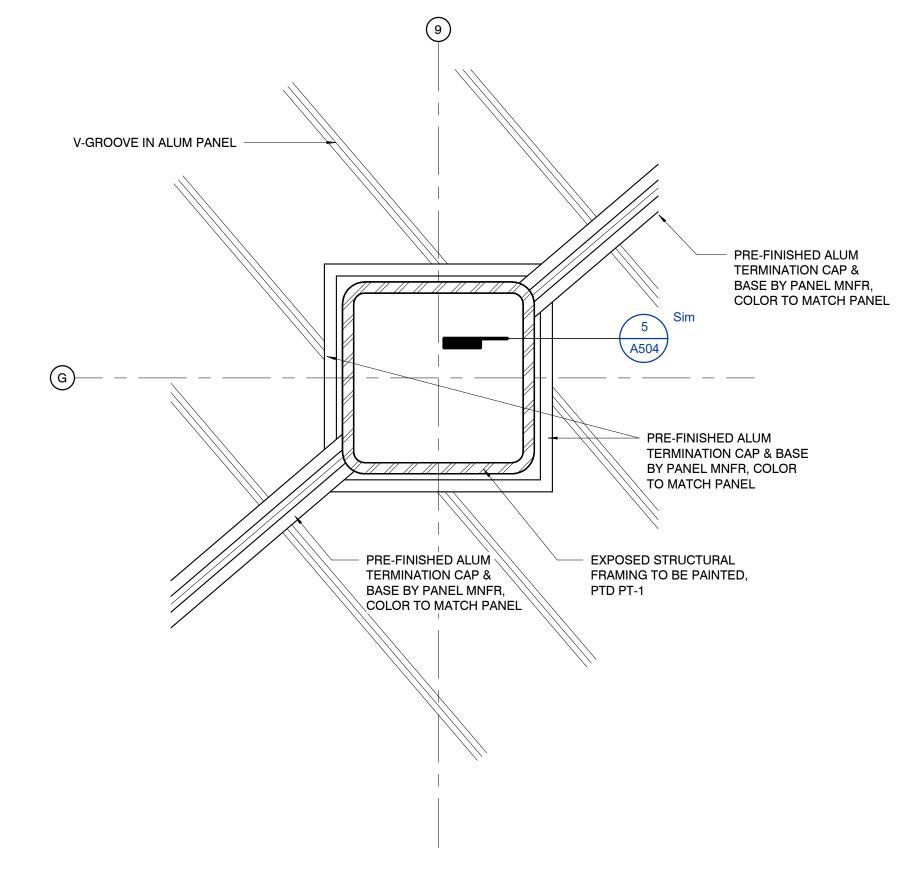


7 ENLARGED DETAIL - TYP. CANOPY FASCIA/SOFFIT 6" = 1'-0"

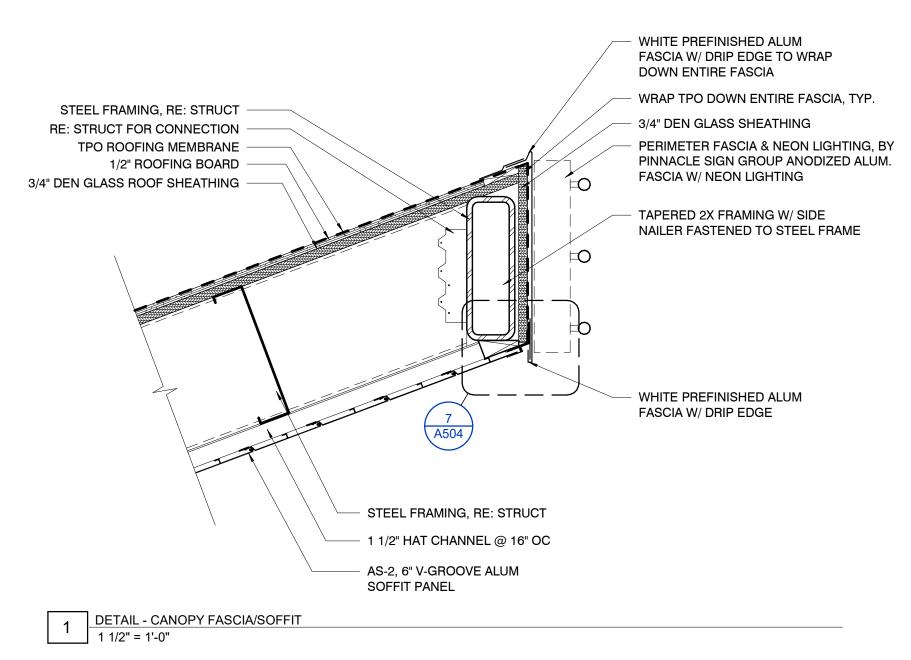




2 DETAIL - PATIO CANOPY VALLEY
1 1/2" = 1'-0"







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PROJECT INFORMATION:
Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

Springfield, MO 65806 www.eatandys.com

211 E. Water Street

ARCHITECT:

HUFFT

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

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IEP:

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Springfield, MO 65804
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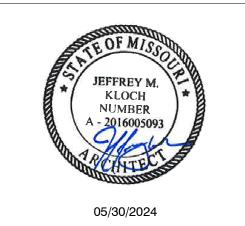
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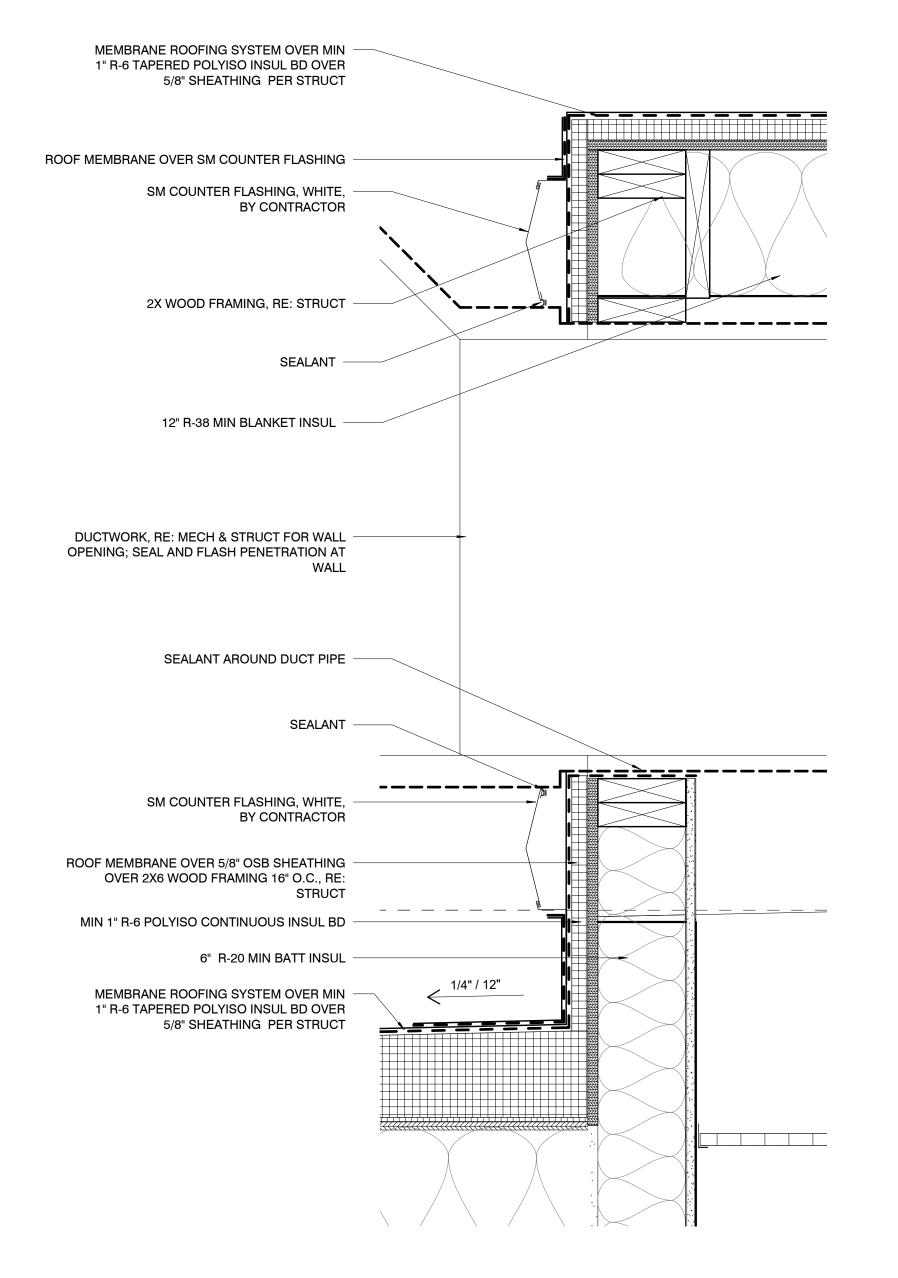
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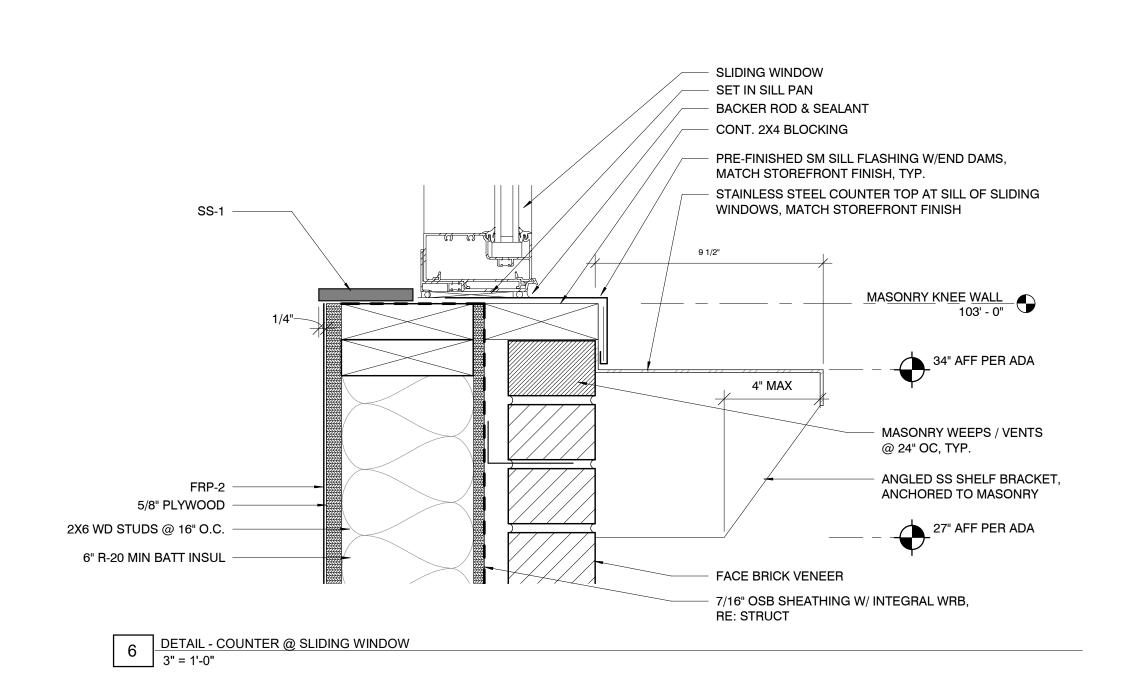


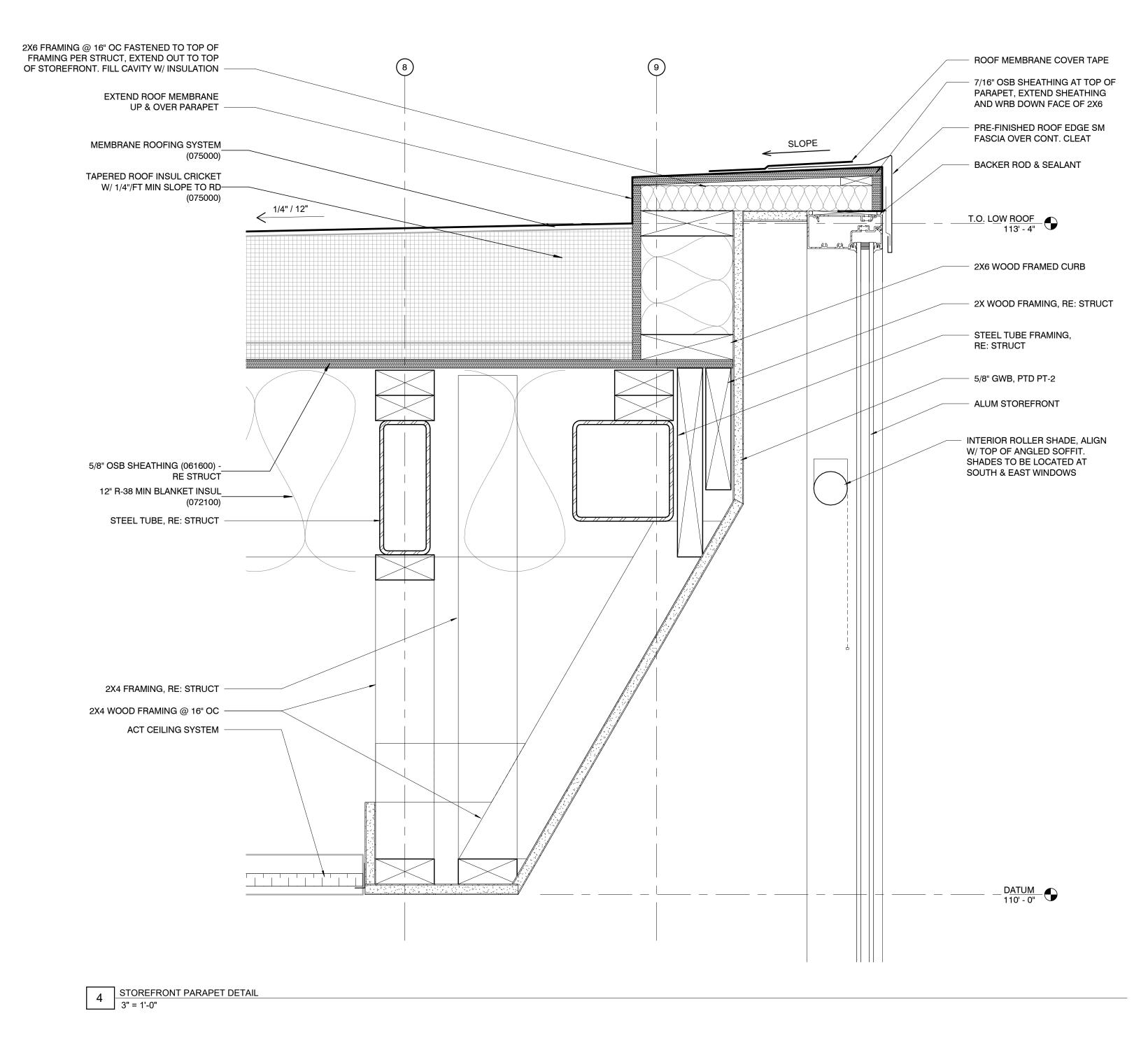
Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

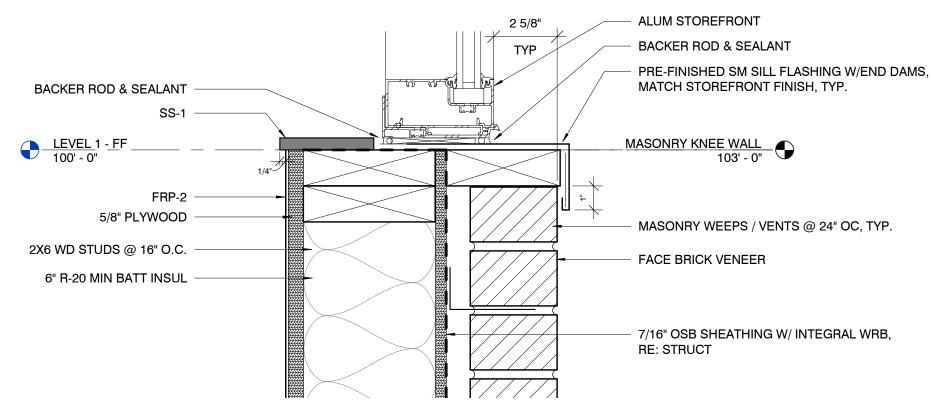
DETAILS - PATIO CANOPY



3 DETAIL - DUCT WALL PENETRATION 1:6







2 DETAIL - MASONRY KNEE WALL @ STOREFRONT 3" = 1'-0"

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Hufft

PROJECT INFORMATION:

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ARCHITECT:

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JEFFREY M.

KLOCH

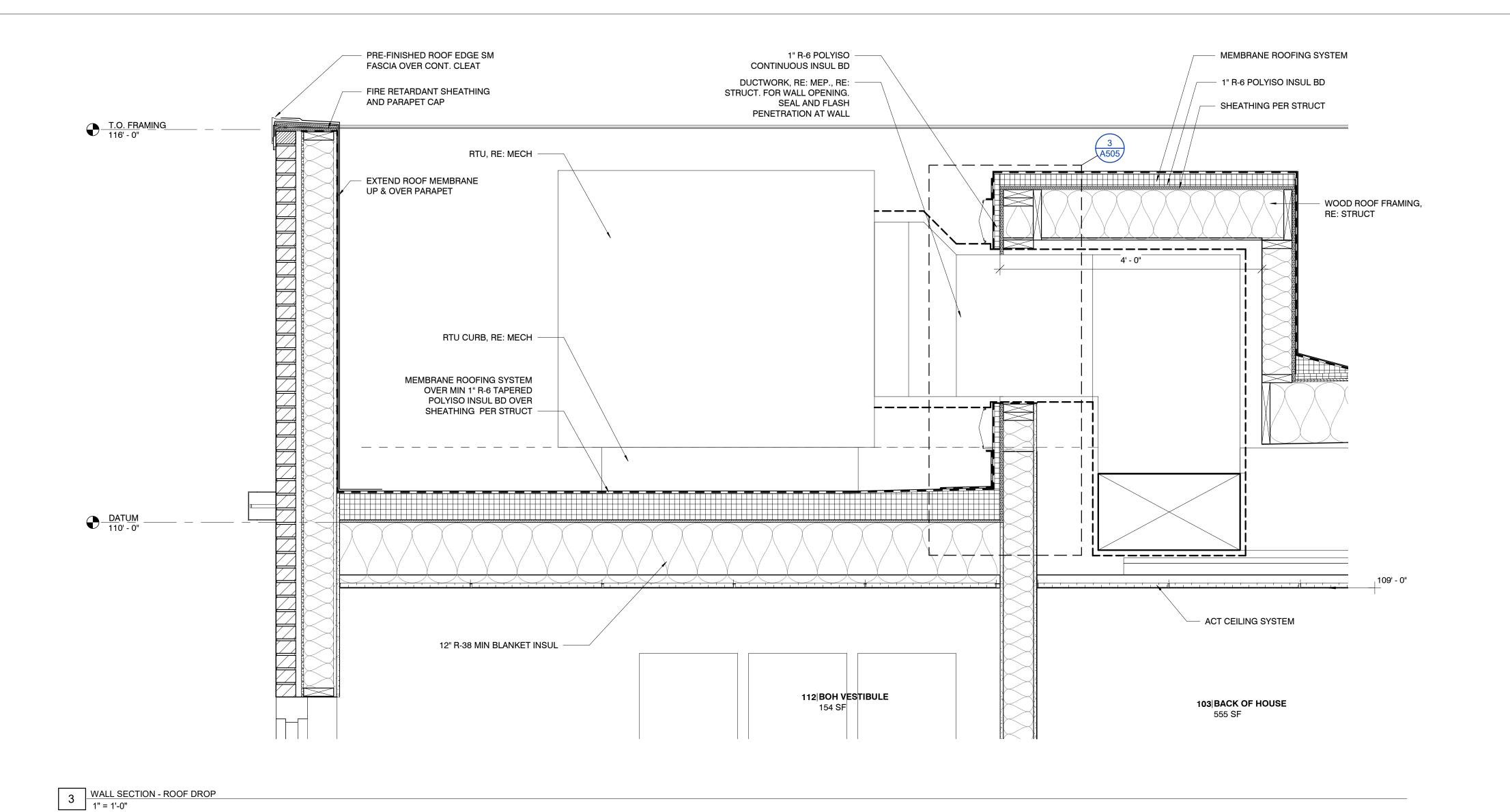
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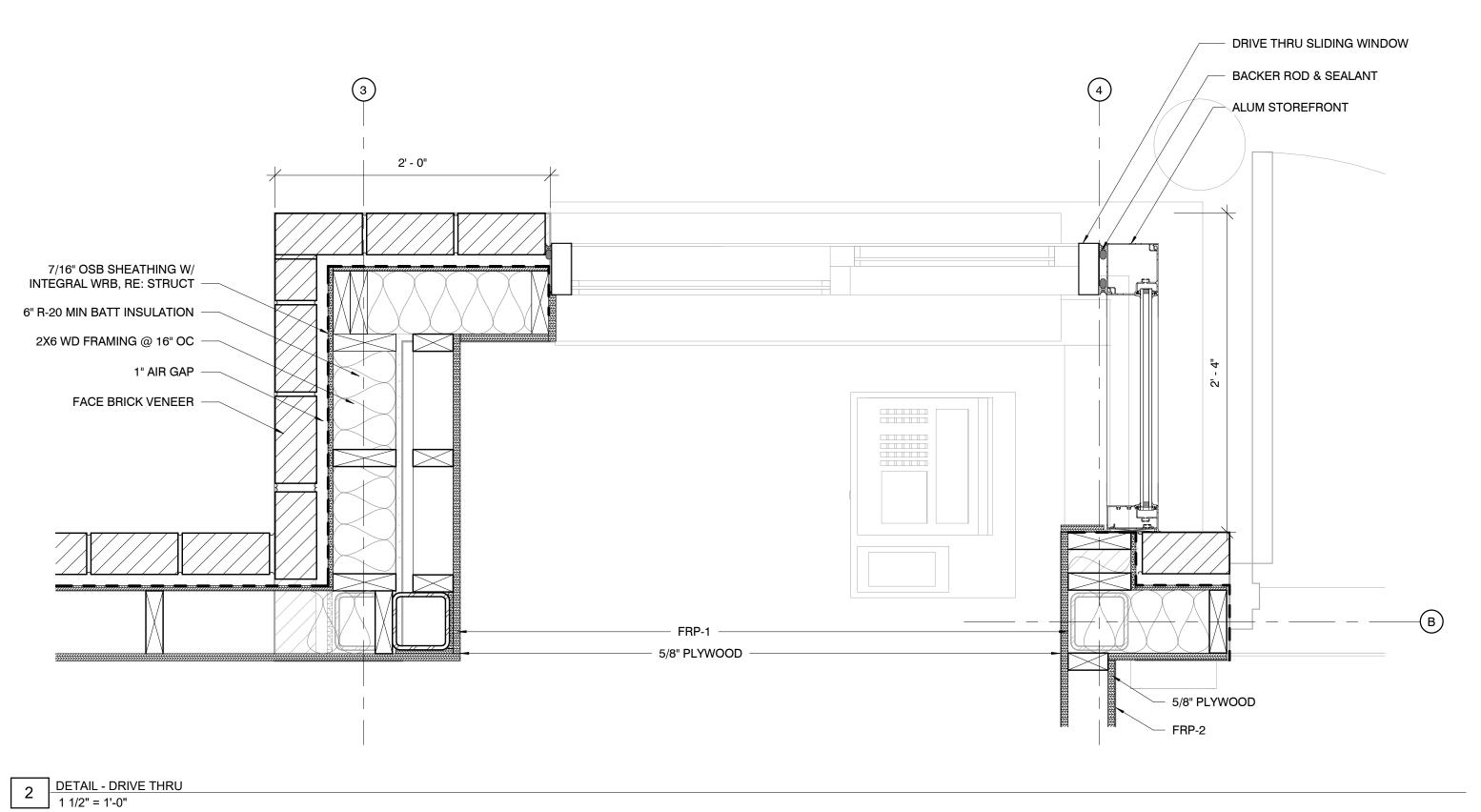
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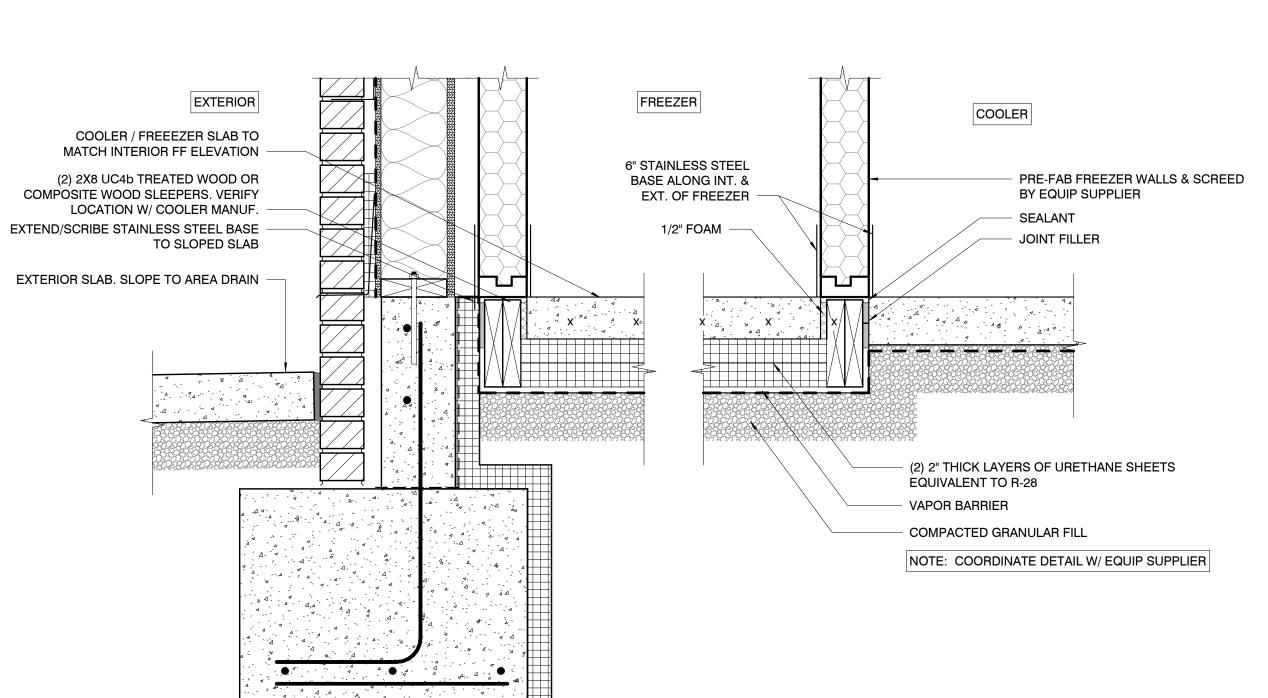
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Andy's Frozen Custard #204







1 DETAIL - FREEZER INSULATED SLAB
1 1/2" = 1'-0"

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630 NW Chipman Road Lee's Summit, Missouri 64086

OWNER:
ANDY'S FROZEN CUSTARD

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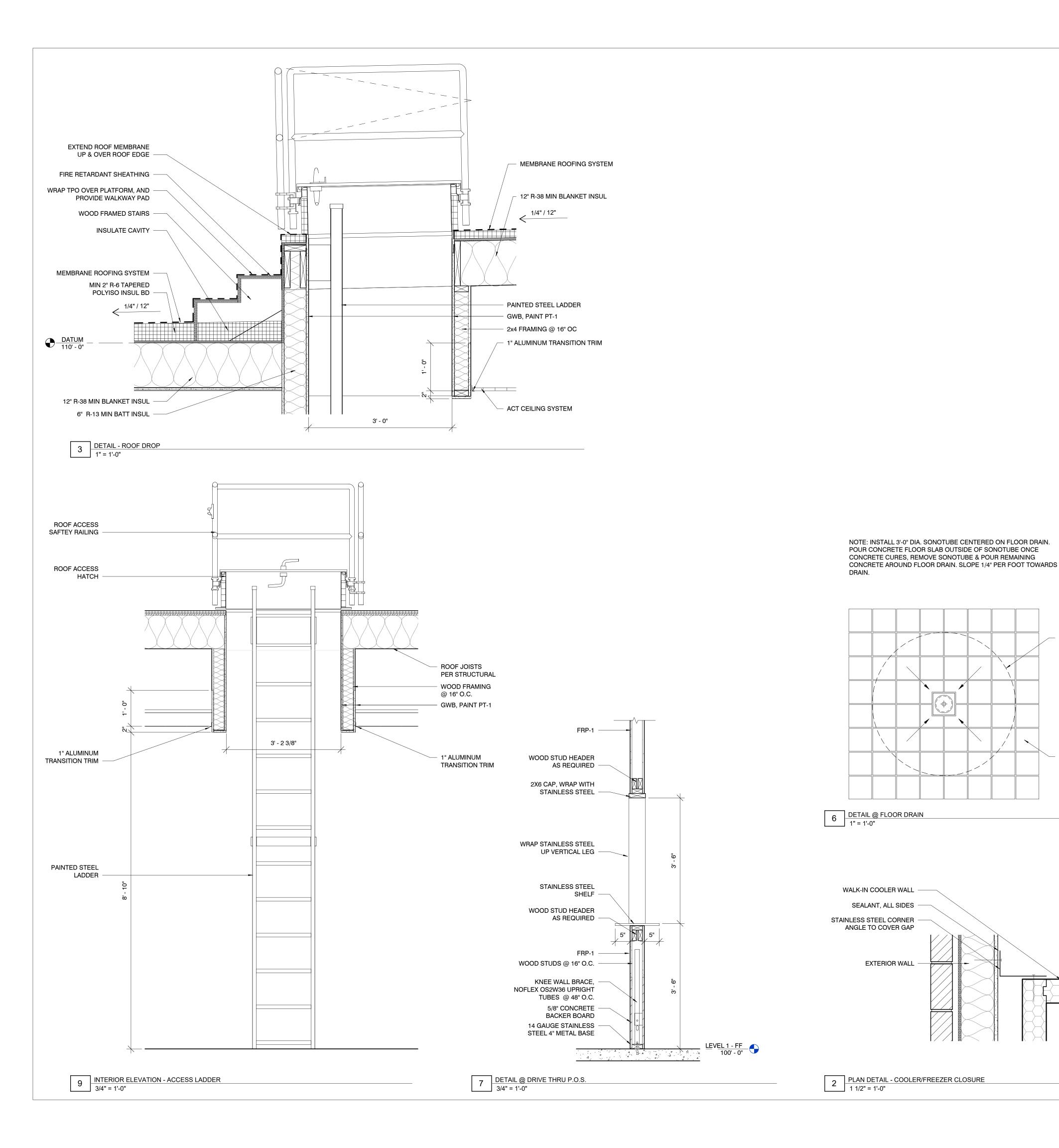
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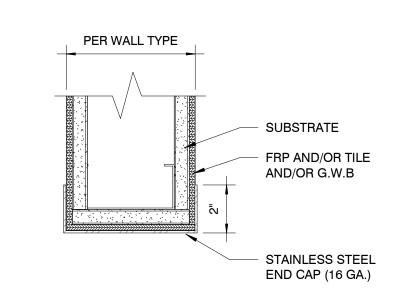


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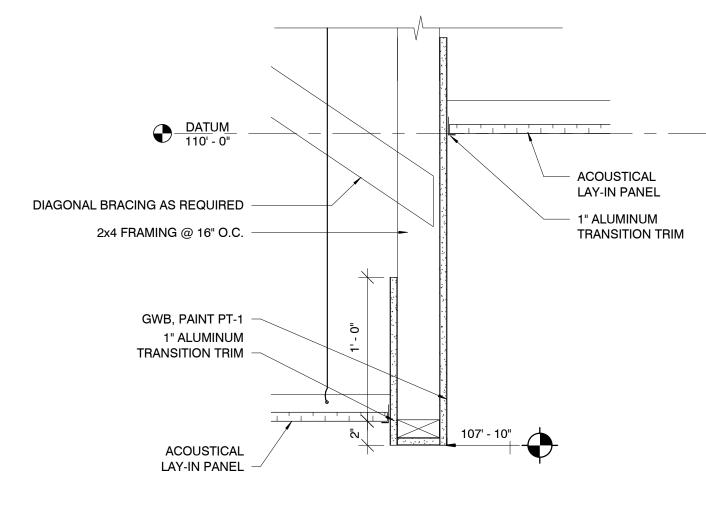
Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

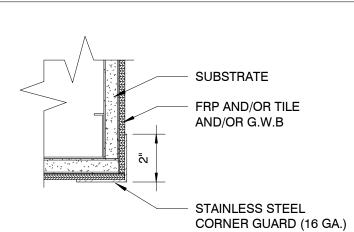
DETAILS - EXTERIOR





5 DETAIL @ STAINLESS STEEL END CAP
3" = 1'-0"

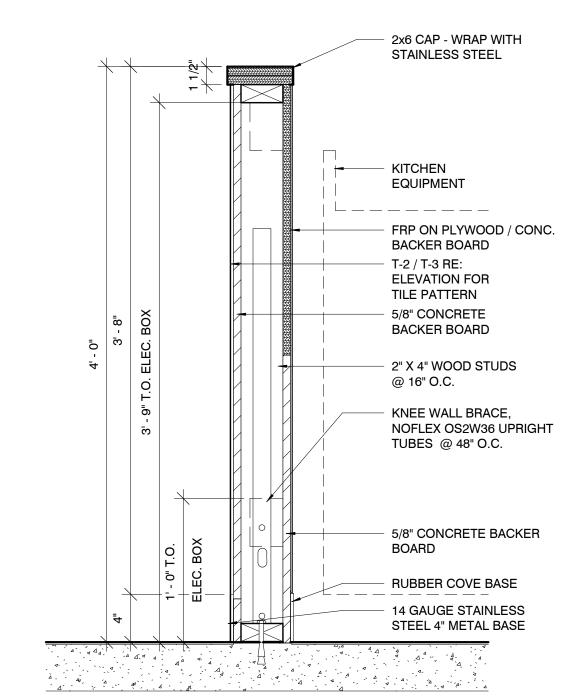




4 DETAIL @ STAINLESS STEEL CNR. GUARD
3" = 1'-0"

3'-0" DIA. SONOTUBE

RES-TEK FLOORING



1 SECTION @ HALF WALL 1 1/2" = 1'-0"

Hufft

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ANDY'S FROZEN CUSTARD 211 E. Water Street

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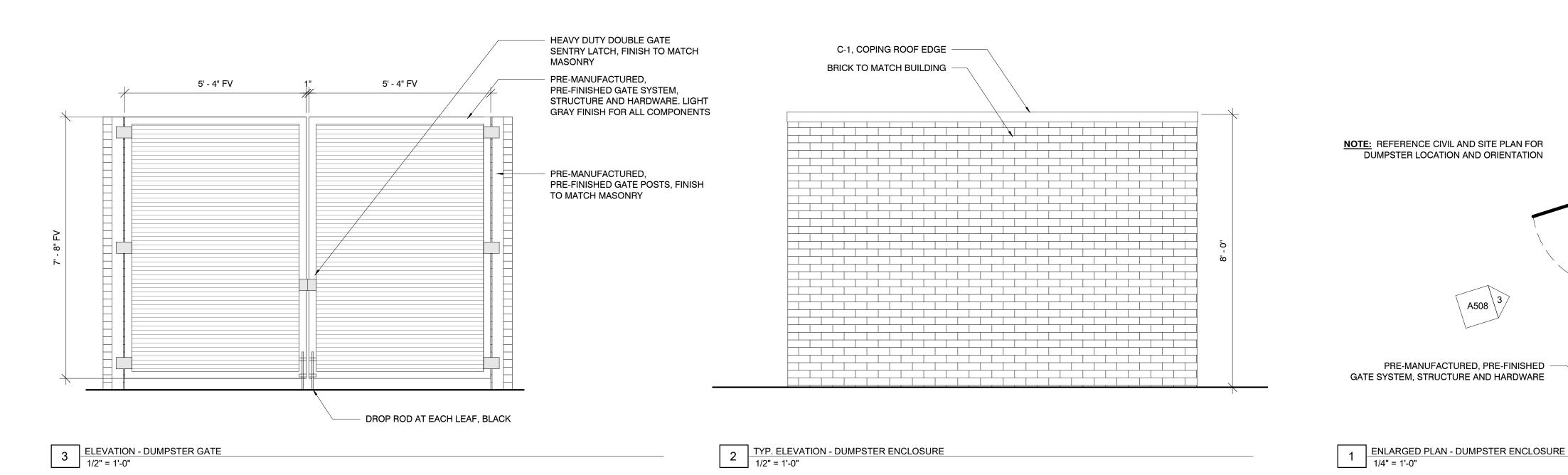
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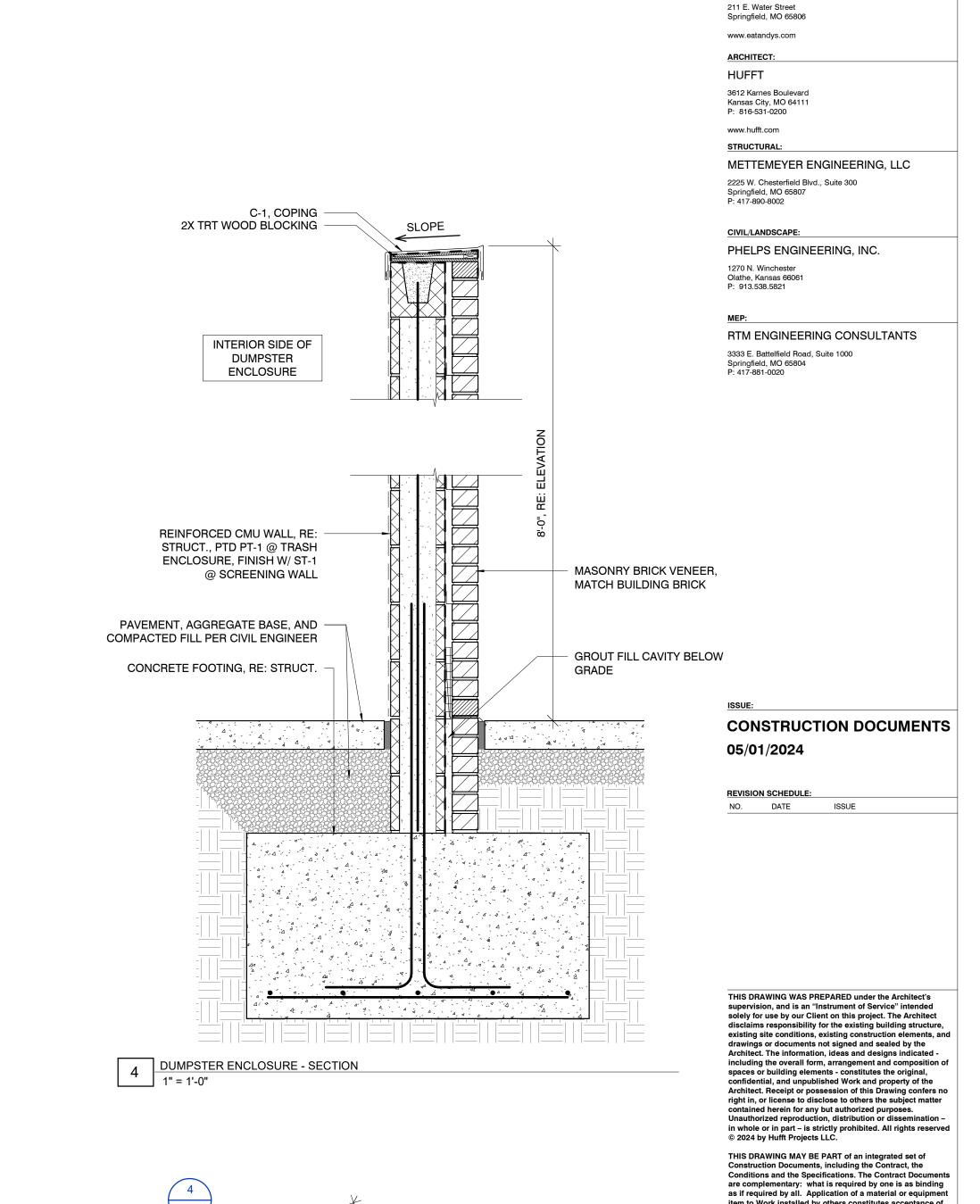


Architect: JEFFREY KLOCH

License Number: A-2016005093 Drawn By: MS Project Number: 736

DETAILS - INTERIOR





Hufft

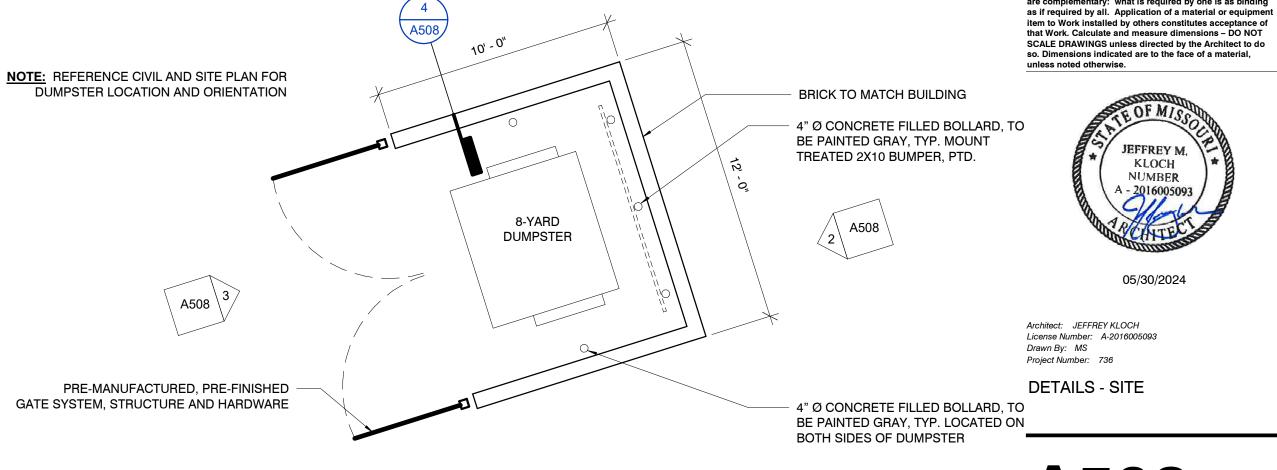
PROJECT INFORMATION:

OWNER:

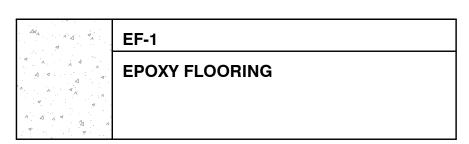
630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

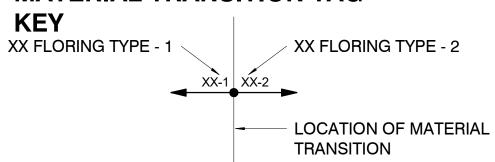
Andy's Frozen Custard #204



FINISH MATERIAL KEY



MATERIAL TRANSITION TAG



ROOM FINISH TAG KEY

WALL
BASE
FLOOR

FINISH NOTES:

- ALL FINISHES TO COMPLY WITH CHAPTER 8, INTERIOR FINISHES, IN
- THE RELEVANT INTERNATIONAL BUILDING CODE. GENERAL CONTRACTOR TO ENSURE ALL FLOORS ARE PROPERLY
- PREPARED TO RECEIVE SPECIFIED FLOOR FINISH.
- GENERAL CONTRACTOR TO ENSURE ALL WALLS ARE PROPERLY PREPARED FOR SPECIFIED FINISH.
- ALL ADHESIVES, SOLVENTS, PAINTS AND SEALANTS TO COMPLY WITH VOLUNTARY SUSTAINABILITY GOALS FOR V.O.C. CONTENT PER
- SPECIFICATIONS IN PROJECT MANUAL. PAINT ALL WALLS PT-1 U.O.N.
- ALL FLOORING TRANSITIONS BETWEEN DIFFERING MATERIALS ARE TO HAVE PROPER TRANSITION STRIPS.
- WHERE INSTALLING TILE PRODUCT ALL CUTS SHALL BE GREATER
- ALL TILE GROUT JOINTS TO BE 1/8" U.O.N. ALL TILE GROUT JOINTS TO BE PROPERLY SEALED.
- WHERE STAGGERED OR BRICK INSTALLATION METHODS ARE USED WITH TILE, PROVIDE A 30% / 70% JOINT PLACEMENT, PER TCNA.
- CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE CORNERS. SUPPLIED AND INSTALLED BY G.C.
- NOT ALL FINISHES IN SCHEDULE OF FINISHES ARE NECESSARILY INCLUDED IN THIS SCOPE OF WORK. SEE ROOM FINISH PLAN AND
- INTERIOR ELEVATIONS FOR LOCATIONS. PAINT EXPOSED STRUCTURAL COLUMNS, EXPOSED DUCTWORK PT-1,
- SEMIGLOSS. INTERIOR DOORS AND FRAMES TO BE PAINTED PT-1 SEMIGLOSS BOTH SIDES UNLESS OTHERWISE NOTED. ALL PRELAMINATED FRP PANELS TO BE INSTALLED WITH FULL
- CONTACT ADHESIVE PER SPECIFICATIONS IN PROJECT MANUAL. PAINT SHEEN: CEILINGS - FLAT, STRUCTURAL COLUMNS AND
- EXPOSED METAL DUCTS ACRYLIC ENAMEL, SEMI-GLOSS, WALLS -SATIN (UNLESS NOTED OTHERWISE)
- ALL BACK OF HOUSE WALL SURFACES TO BE FINISHED WITH FRP
- CONTRACTOR TO SUBMIT FINISH SAMPLES OF ALL FINISHES TO
- ARCHITECT FOR APPROVAL PRIOR TO ORDERING MATERIALS. ALL FOOD AND NON-FOOD SURFACES ARE TO BE SMOOTH, DURABLE, NON-ABSORBENT, LIGHT IN COLOR AND EASILY CLEANABLE PER HEALTH DEPARTMENT REGULATIONS.
- ALL FINISHES SHOWN ARE BASIS OF DESIGN. PROPOSED ALTERNATES SHALL BE APPROVED BY ARCHITECT WITH ALTERNATE SUBMITTALS.
- ALL TILE BASE GROUT LINES TO ALIGN WITH ADJACENT FLOOR TILE WHERE BOTH FLOOR AND WALL TILE ARE USED.

FINISH LEGEND

ARDITE STANDARD FRP, P100, WHITE STANDARD FRP, P100, WHITE SHOOR SERIES, WHITE SHOOR SHOOR SERIES, WHITE SHOOR SHOOR SERIES, WHITE SHOOR SHOOR SERIES, WHITE SHOOR SHOOR SHOOR SERIES, WHITE SHOOR SHOOR SERIES, WHITE SHOOR	KEY	MANUFACTURER	DESCRIPTION	NOTES	LOCATION	FINISH TYPE	CONTACT
CELLING CELLING CELLING CELLING ARMSTRONG KITCHENZONE 2'XI RECTANGULAR LAY-IN TILE AND GRID, WHITE ARMSTRONG GYPSUM WALL BOARD, PARN FPT-1 GYPSUM WALL BOARD, PARN FPT-1 GYPSUM WALL BOARD, PARN FPT-1 RESTEK MMA FLOORING CELLING COLORED QUARTZ - LT GRAY CO-5 GENERAL FRONT OF HOUSE GLAZING CELLING SAM ENGLE, 816-800-2582 CELLING	CASEW	ORK					
CEILING ARMSTRONG AR	PL-1	FORMICA	927-58 FOLKSTONE MATTE FINISH		OFFICE	CASEWORK	
ACT-1 ARMSTRONG KITCHENZONE 2X4" RECTANGULAR LAY-IN TILE AND GRID, WHITE FOR CT-2 ARMSTRONG OPTIMA, 2X4" RECTANGULAR LAY-IN TILE AND GRID, WHITE OFFICE CELLING SAM ENGLE, 816-800-2582 OFFICE CELLING GYPSUM WALL BOARD, PAINT PT-1 HALLWAY, RESTROOMS CEILING GYPSUM WALL BOARD, PAINT PT-1 HALLWAY, RESTROOMS CEILING CEILING CEILING CEILING SAM ENGLE, 816-800-2582 OFFICE CELLING SAM ENGLE, 816-800-2582 OFFICE CEILING SAM ENGLE, 816-800-2582 OFFICE C	SS-1	CORIAN	1/2" SOLID SURFACE, COLOR: GLACIER WHITE	SILL AT STOREFRONT	FRONT OF HOUSE	CASEWORK	
ACT-1 ARMSTRONG KITCHENZONE 2X4" RECTANGULAR LAY-IN TILE AND GRID, WHITE FOR CT-2 ARMSTRONG OPTIMA, 2X4" RECTANGULAR LAY-IN TILE AND GRID, WHITE OFFICE CELLING SAM ENGLE, 816-800-2582 OFFICE CELLING GYPSUM WALL BOARD, PAINT PT-1 HALLWAY, RESTROOMS CEILING GYPSUM WALL BOARD, PAINT PT-1 HALLWAY, RESTROOMS CEILING CEILING CEILING CEILING SAM ENGLE, 816-800-2582 OFFICE CELLING SAM ENGLE, 816-800-2582 OFFICE CEILING SAM ENGLE, 816-800-2582 OFFICE C	CEILING	à					
CLG-1 GYPSUM WALL BOARD, PAINT PT-1 HALLWAY, RESTROOMS CEILING CEILING SUMLINE THERMOVEIL 1500 SERIES, WHITE SHADE FABRIC FRONT OF HOUSE GLAZING CEILING CEILI			KITCHENZONE 2'X4' RECTANGULAR LAY-IN TILE AND GRID, WHITE		FRONT OF HOUSE & BACK OF HOUSE	CEILING	SAM ENGLE, 816-800-2582
RS-1 MECHOSHADE SLIMLINE THERMOVEIL 1500 SERIES, WHITE SHADE FABRIC FRONT OF HOUSE GLAZING CEILING FRONT OF HOUSE GLAZING CEILING COLORED QUARTZ - LT GRAY CO.5 GENERAL FLOOR JASON REDFIELD, 913-375 SEALED CONCRETE OUTDOOR PATIO FLOOR MALL FRP-1 MARLITE STANDARD FRP, P100, WHITE BACK OF HOUSE, OFFICE WALL FRP-1 SHORWIN WILLLAWS SW 7006 EXTRA WHITE SHOOK STAND WHITE GRONT OF HOUSE SCHOOL WALL FRP-2 SHERWIN WILLLAWS SW 7006 EXTRA WHITE SHOOK NIENSTEDT, 913-35 FRONT OF HOUSE ACCENT WALL BROOK NIENSTEDT, 913-35 FRONT OF HOUSE ACCENT WALL TILE WALL BROOK NIENSTEDT, 913-35 GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE ACCENT WALL TILE WALL BROOK NIENSTEDT, 913-35 GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WALL BASE WALL BASE WALL BASE TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE, FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT WHITE COLOR WALL BASE WHITE FRONT OF HOUSE ACCENT TILE WALLS FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WHITE JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WALL BASE WHITE JAIME RUFFING, 214-394-9 WHITE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WALL BASE WHITE JAIME RUFFING, 214-394-9 WHITE WHITE JAIME RUFFING, 214-394-9 WHITE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WALL BASE WALL BASE WHITE JAIME RUFFING, 214-394-9 WHITE WHITE WALL BASE WHITE	ACT-2	ARMSTRONG	OPTIMA, 2'x4' RECTANGULAR LAY-IN TILE AND GRID, WHITE		OFFICE	CEILING	SAM ENGLE, 816-800-2582
FLOOR EEF-1 RES-TEK MMA FLOORING COLORED QUARTZ - LT GRAY CO-5 GENERAL FLOOR JASON REDFIELD, 913-375 SC-1 SEALED CONCRETE OUTDOOR PATIO FLOOR WALL FRP-1 MARLITE STANDARD FRP, P100, WHITE FRONT OF HOUSE, OFFICE WALL FRP-2 MARLITE SMOOTH FRP, \$100, \$2/3 WHITE FRONT OF HOUSE WALL FRP-1 SHERWIN WILLIAMS SW 7006 EXTRA WHITE GROUT MAPEL, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE SLOPED WALL BROOK NIENSTEDT, 913-3 SOFFIT T-2 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6" GROUT: MAPEL, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE WALL BASE WHITE GROUT: MAPEL, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE WALL BASE WALL BASE WALL BASE WHITE GROUT: MAPEL, FLEXCOLOR DESIGN 117 PURE RESTROOMS WALL BASE WHITE WHITE WALL SALE WALL BASE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE.	CLG-1		GYPSUM WALL BOARD, PAINT PT-1		HALLWAY, RESTROOMS	CEILING	
RES-TEK MMA FLOORING COLORED QUARTZ - LT GRAY CQ-5 GENERAL FLOOR JASON REDFIELD, 913-375 SC-1 SEALED CONCRETE OUTDOOR PATIO FLOOR FLOOR FLOOR SEALED CONCRETE OUTDOOR PATIO FLOOR FL	RS-1	MECHOSHADE	SLIMLINE THERMOVEIL 1500 SERIES, WHITE SHADE FABRIC		FRONT OF HOUSE GLAZING	CEILING	
RES-TEK MMA FLOORING COLORED QUARTZ - LT GRAY CQ-5 GENERAL FLOOR JASON REDFIELD, 913-375 SC-1 SEALED CONCRETE OUTDOOR PATIO FLOOR FLOOR FLOOR SEALED CONCRETE OUTDOOR PATIO FLOOR FL	FLOOR						
WALL FRP-1 MARLITE STANDARD FRP, P100, WHITE SMOOTH FRP, S100, S/2/S WHITE SMOOTH FRP, S100, S/2/S WHITE FRONT OF HOUSE WALL FRP-2 MARLITE SMOOTH FRP, S100, S/2/S WHITE FRONT OF HOUSE WALL SHERWIN WILLIAMS WOOSE EXTRA WHITE FRONT OF HOUSE SLOPED WALL FRP-2 SHERWIN WILLIAMS SW 6869 STOP ACCENT, FRONT OF HOUSE SLOPED WALL BROOK NIENSTEDT, 913-31 FT-2 DALTILE COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3° X 6° GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE FRONT OF HOUSE ACCENT WALL TILE FRONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WALL BASE WALL BASE WALL BASE WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WALL BASE WALL BASE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE WALL BASE WHITE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE WHITE		RES-TEK	MMA FLOORING	COLORED QUARTZ - LT GRAY CQ-5	GENERAL	FLOOR	JASON REDFIELD, 913-375-5191
WALL FRP-1 MARLITE STANDARD FRP, P100, WHITE SMOOTH FRP, S100, S/2/S WHITE SMOOTH FRP, S100, S/2/S WHITE SMOOTH FRP, S100, S/2/S WHITE SHERWIN WILLIAMS SW 7006 EXTRA WHITE SHERWIN WILLIAMS SW 6869 STOP SHERWIN WILLIAMS SW 6869 STOP ACCENT, FRONT OF HOUSE SLOPED SOFFIT COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE WHITE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WALL BROOK NIENSTEDT, 913-3: SOFFIT RONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WHITE WHITE RESTROOMS WALL BASE JAIME RUFFING, 214-394-9 WHITE WHITE WHITE WHITE PRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE JAIME RUFFING, 214-394-9 WHITE WHITE WHITE WHITE WHITE PRONT OF HOUSE ACCENT TILE WALLS WALL BASE WALL BASE JAIME RUFFING, 214-394-9 WHITE WHITE WHITE WHITE WHITE WHITE WALL JAIME RUFFING, 214-394-9 WHITE WHITE WHITE WHITE WHITE WALL JAIME RUFFING, 214-394-9 WHITE RESTROOMS WALL BASE JAIME RUFFING, 214-394-9 WHITE WHITE WHITE WHITE WHITE WHITE RESTROOMS	SC-1		SEALED CONCRETE		OUTDOOR PATIO	FLOOR	·
MARLITE SMOOTH FRP, \$100, \$/2/S WHITE FRONT OF HOUSE WALL PT-1 SHERWIN WILLIAMS SW 7006 EXTRA WHITE GENERAL, EXPOSED COLUMNS WALL BROOK NIENSTEDT, 913-31 PT-2 SHERWIN WILLIAMS SW 6869 STOP ACCENT, FRONT OF HOUSE SLOPED WALL BROOK NIENSTEDT, 913-31 PT-2 DALTILE COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE FRONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WALL BASE WALL BASE WALL BASE WALL BASE WALL BASE US OCION MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT COLOR DESIGN 117 PURE WHITE WALL BASE WALL BASE WALL BASE UNITE TO COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE, FLAT LOCATIONS WITHOUT TILE ABOVE.		AAADUTE	OTANDADD EDD DAGG MILLITE		DANK OF HOUSE OFFICE)A/A1.1	
PT-1 SHERWIN WILLIAMS SW 7006 EXTRA WHITE SHERWIN WILLIAMS SW 6869 STOP COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6" DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE RESTROOMS WALL FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WALL BASE WALL BROOK NIENSTEDT, 913-3: ACCENT, FRONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WALL BROOK NIENSTEDT, 913-3: ACCENT, FRONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WALL BASE WALL BROOK NIENSTEDT, 913-3: ACCENT, FRONT OF HOUSE ACCENT WALL TILE WALL JAIME RUFFING, 214-394-9 WALL BASE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE FRONT OF HOUSE ACCENT TILE WALLS WALL BASE TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITH TILE ABOVE WALL BROOK NIENSTEDT, 913-3: ACCENT, FRONT OF HOUSE ACCENT WALL TILE WALL FRONT OF HOUSE ACCENT TILE WALLS WALL BASE RESTROOMS WALL BASE HESTROOMS WALL BASE JAIME RUFFING, 214-394-9 WHITE					,		
PT-2 SHERWIN WILLIAMS SW 6869 STOP ACCENT, FRONT OF HOUSE SLOPED SOFFIT COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE T-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE WALL BASE WALL BASE T-3 DALTILE 14 GAUGE STAINLESS STEEL 4" METAL BASE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE.			, , , , , ,				
DALTILE COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE T-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE FRONT OF HOUSE ACCENT WALL TILE, WALL JAIME RUFFING, 214-394-9 WHITE WALL BASE WALL BASE MB-1 14 GAUGE STAINLESS STEEL 4" METAL BASE TB-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITH TILE ABOVE.					*		
WHITE T-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6" GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE RESTROOMS WALL BASE WALL BASE TB-3 DALTILE 14 GAUGE STAINLESS STEEL 4" METAL BASE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE, FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE WHITE GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE WHITE GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE WHITE WHITE WALL BASE JAIME RUFFING, 214-394-9 WHITE	PT-2	SHERWIN WILLIAMS	SW 6869 STOP			WALL	BROOK NIENSTEDT, 913-381-86
WALL BASE WALL BASE MB-1	T-2	DALTILE	COLOR WHEEL COLLECTION CLASSIC, ARCTIC WHITE 0190, GLOSS, 3" X 6"		FRONT OF HOUSE ACCENT WALL TILE	WALL	JAIME RUFFING, 214-394-9498
MB-1 14 GAUGE STAINLESS STEEL 4" METAL BASE TB-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE. FLAT GROUT: MAPEI, FLEXCOLOR DESIGN 117 PURE TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE TOP COVE BASE AT LOCATIONS WITHOUT TILE ABOVE	T-3	DALTILE	COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 3" X 6"	·		WALL	JAIME RUFFING, 214-394-9498
TB-3 DALTILE COLOR MATCH COLLECTION, QF13 VALENTINE, GLOSS, 6" X 6", COVE BASE. FLAT TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE.	WALL B	ASE					
TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE. SANITARY COVE BASE AT LOCATIONS WITHOUT TILE ABOVE.	MB-1		14 GAUGE STAINLESS STEEL 4" METAL BASE		FRONT OF HOUSE ACCENT TILE WALLS	WALL BASE	
WB-1 RES-TEK 4" EPOXY COVE BASE TO MATCH EF-1 AT FRP LOCATIONS WALL BASE JASON REDFIELD, 913-375	TB-3	DALTILE	TOP COVE BASE AT LOCATIONS WITH TILE ABOVE. SANITARY COVE BASE AT	, and the second	RESTROOMS	WALL BASE	JAIME RUFFING, 214-394-9498
	WB-1	RES-TEK	4" EPOXY COVE BASE	TO MATCH EF-1	AT FRP LOCATIONS	WALL BASE	JASON REDFIELD, 913-375-5191

Hufft

PROJECT INFORMATION: **Andy's Frozen Custard #204**

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806

www.eatandys.com ARCHITECT:

HUFFT 3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200

www.hufft.com

STRUCTURAL:

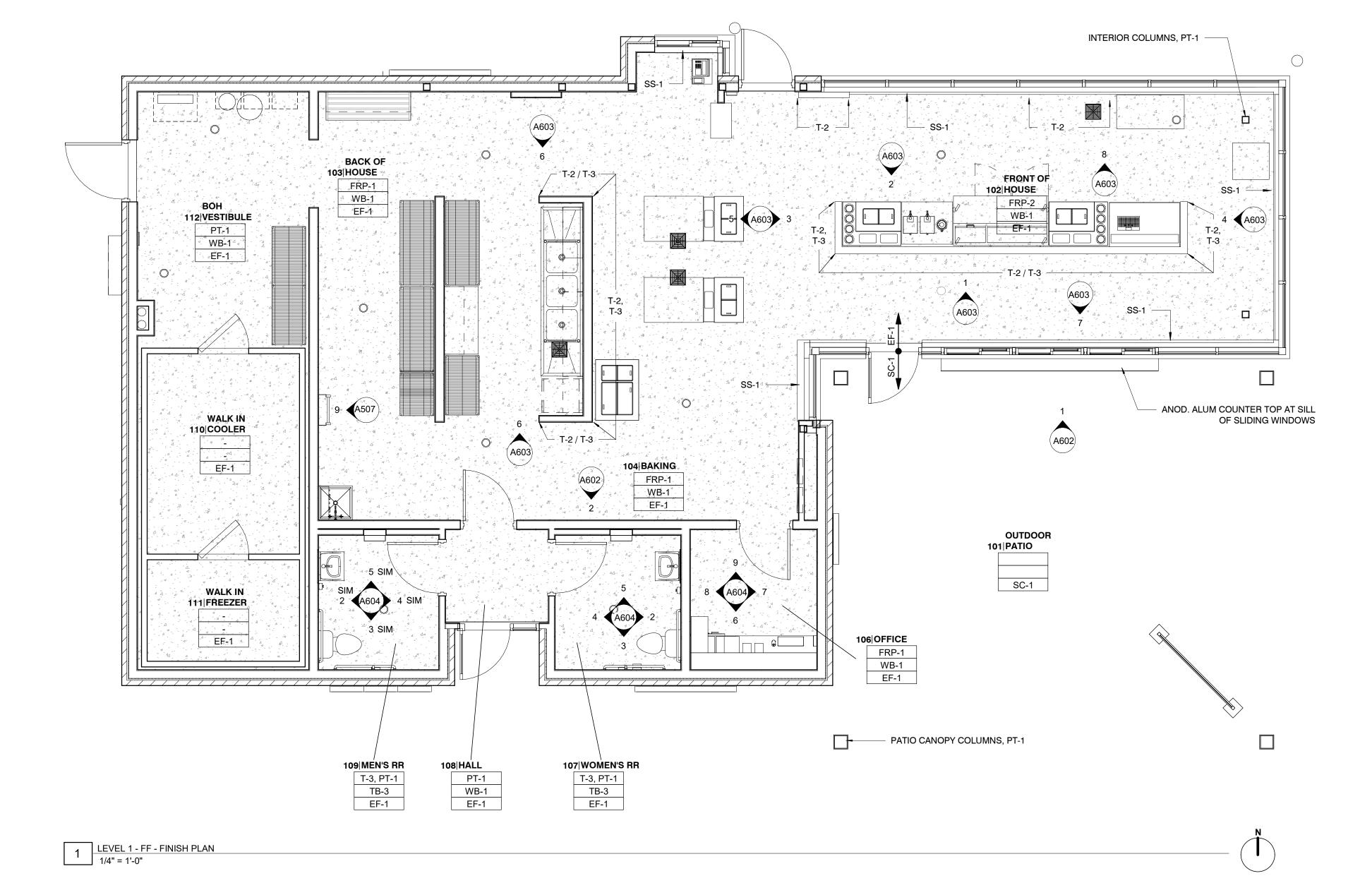
METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL/LANDSCAPE: PHELPS ENGINEERING, INC. 1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

VENDOR LIST

ITEM	VENDOR	CONTACT
SIGNAGE	PINNACLE SIGN GROUP	TIM SWAIM, 417-869-6468
KITCHEN EQUIPMENT	CONCEPT SERVICES	SETH MIERL, 512-343-3100
WALK-IN COOLER/FREEZER	CONCEPT SERVICES	SETH MIERL, 512-343-3100
TILE	DALTILE	JAIME RUFFING, 214-394-9498
PRE-FAB TRASH ENCLOSURE GATES	AMETCO	



CONSTRUCTION DOCUMENTS 05/01/2024

REVISION SCHEDULE:

NO. DATE

THIS DRAWING WAS PREPARED under the Architect's supervision, and is an "Instrument of Service" intended solely for use by our Client on this project. The Architect disclaims responsibility for the existing building structure, existing site conditions, existing construction elements, and Architect. The information, ideas and designs indicated including the overall form, arrangement and composition of

ISSUE

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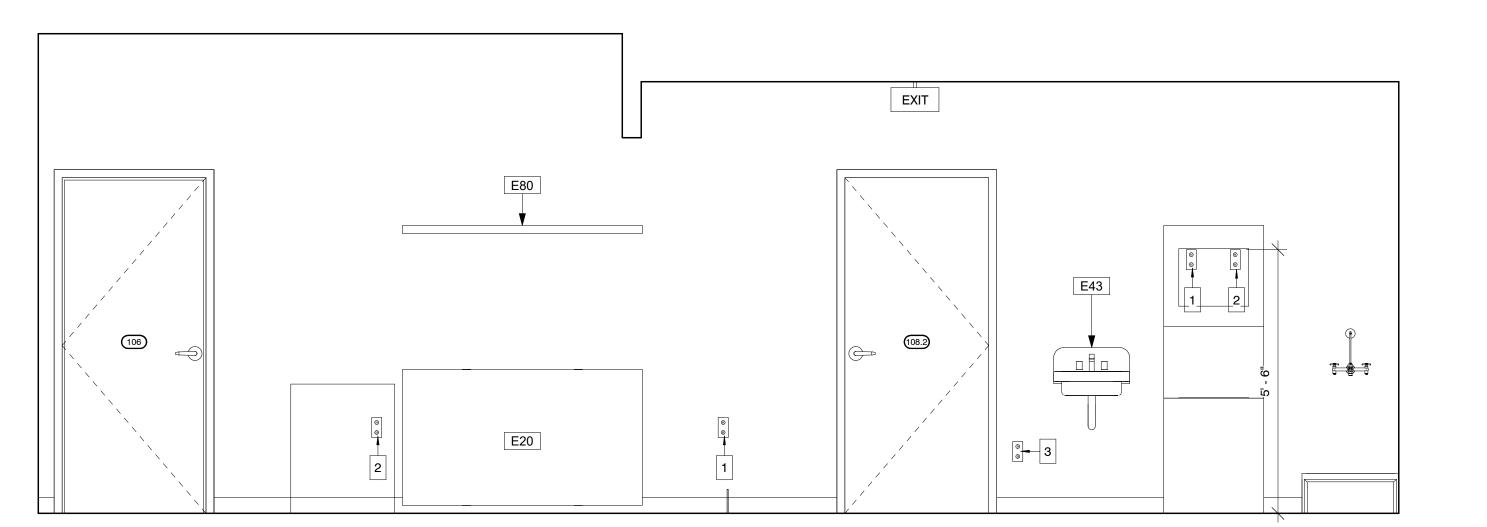


Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

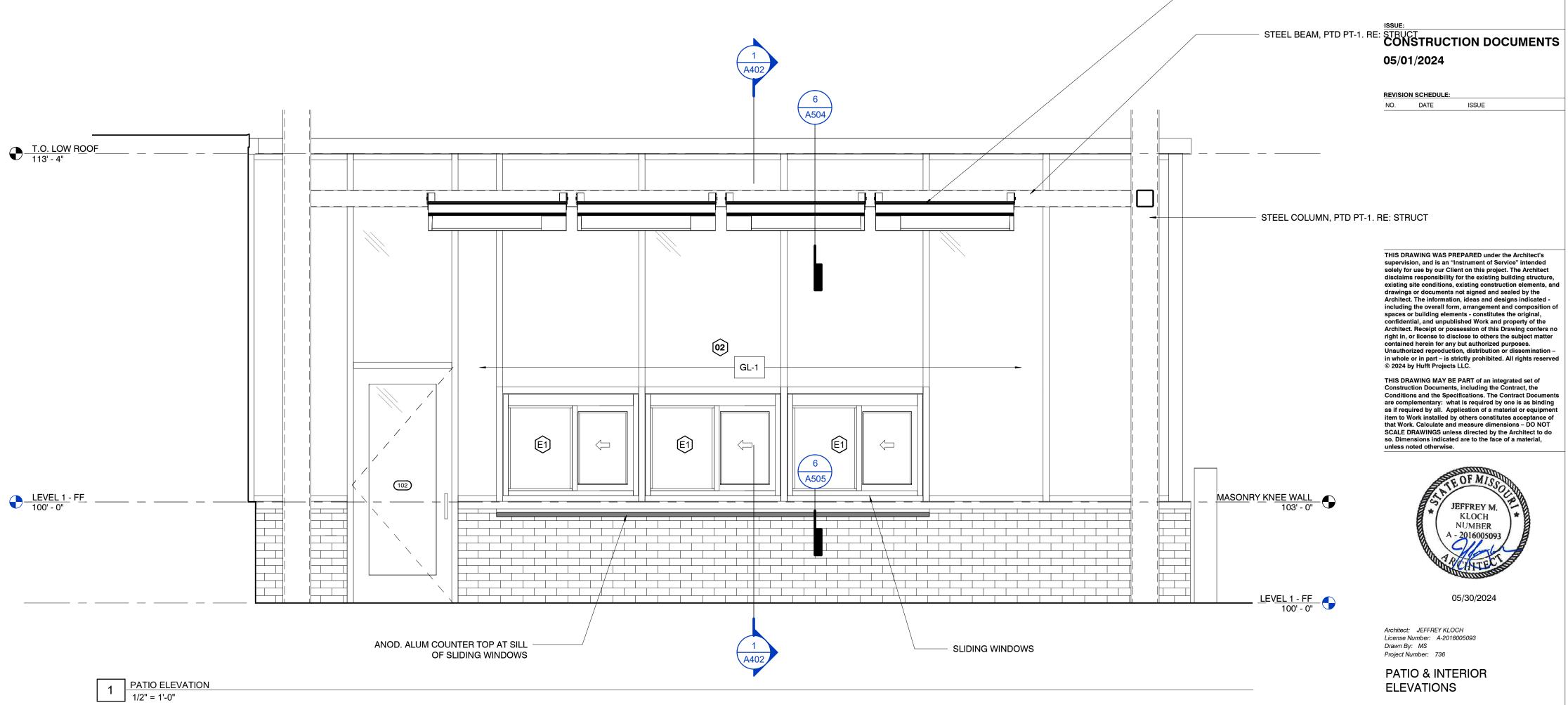
FINISH PLAN

EQUIP. KEYNOTES

1. DUPLEX RECEPTACLE 2. ADDTIONAL SPECIAL REPCTACLE, RE: MEP
3. DUPLEX GFI RECEPTACLE



2 INTERIOR ELEVATION - BACK OF HOUSE 1/2" = 1'-0"



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PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

OWNER: ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT

3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com

STRUCTURAL: METTEMEYER ENGINEERING, LLC

2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL/LANDSCAPE: PHELPS ENGINEERING, INC.

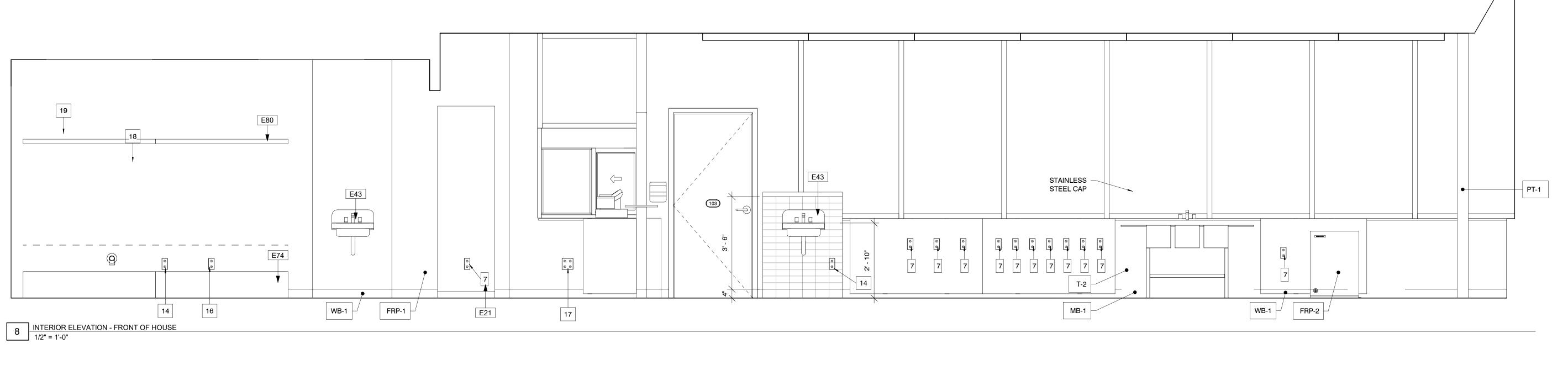
1270 N. Winchester Olathe, Kansas 66061 P: 913.538.5821

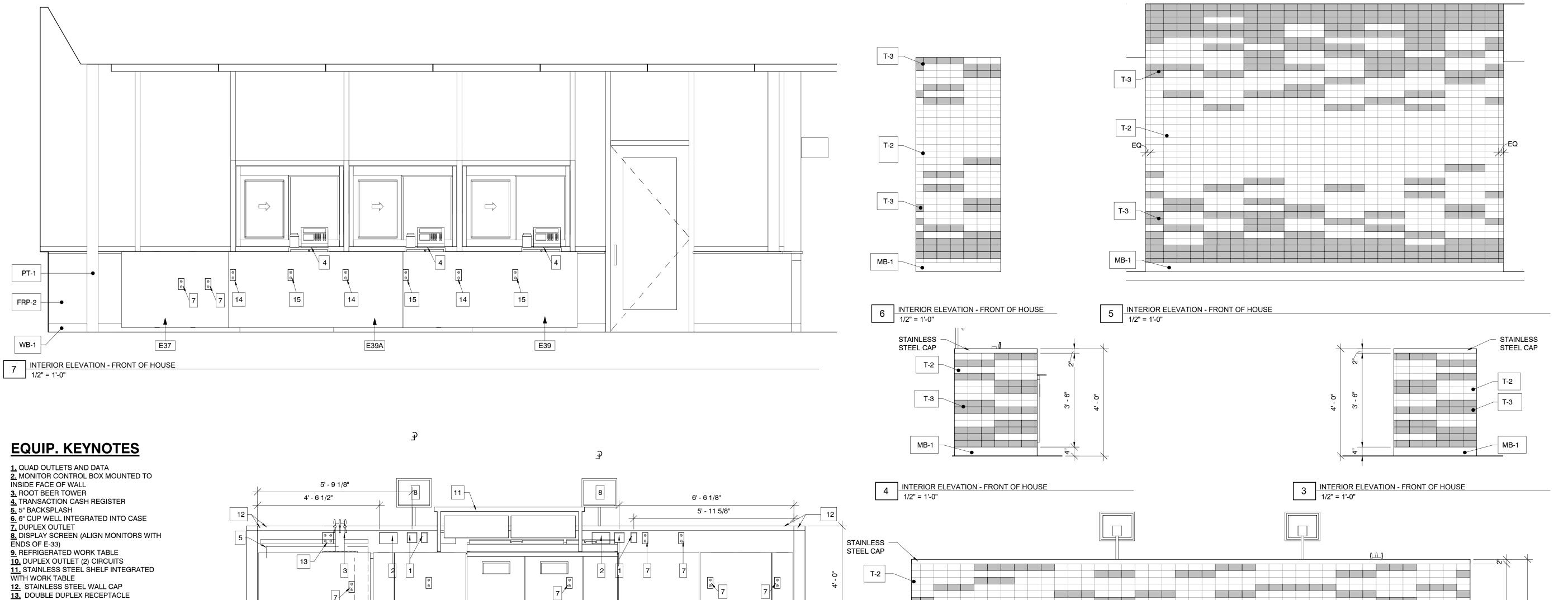
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- SPACE HEATERS, RE: MEP

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1 INTERIOR ELEVATION - FRONT OF HOUSE

1/2" = 1'-0"

14. DUPLEX GFI RECEPTACLE

SOFTENER

18. WATER SOFTENER

19. WATER HEATER

15. IG DUPLEX RECEPTACLE FOR POS EQUIPMENT

16. DUPLEX GFI RECEPTACLE FOR WATER

17. IG DOUBLE DUPLEX RECEPTACLE FOR POS EQUIPMENT

MB-1

2 INTERIOR ELEVATION - FRONT OF HOUSE 1/2" = 1'-0"

20' - 0" CLR

20' - 10"

Hufft PROJECT INFORMATION: 630 NW Chipman Road

Andy's Frozen Custard #204

Lee's Summit, Missouri 64086 ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT 3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200 www.hufft.com

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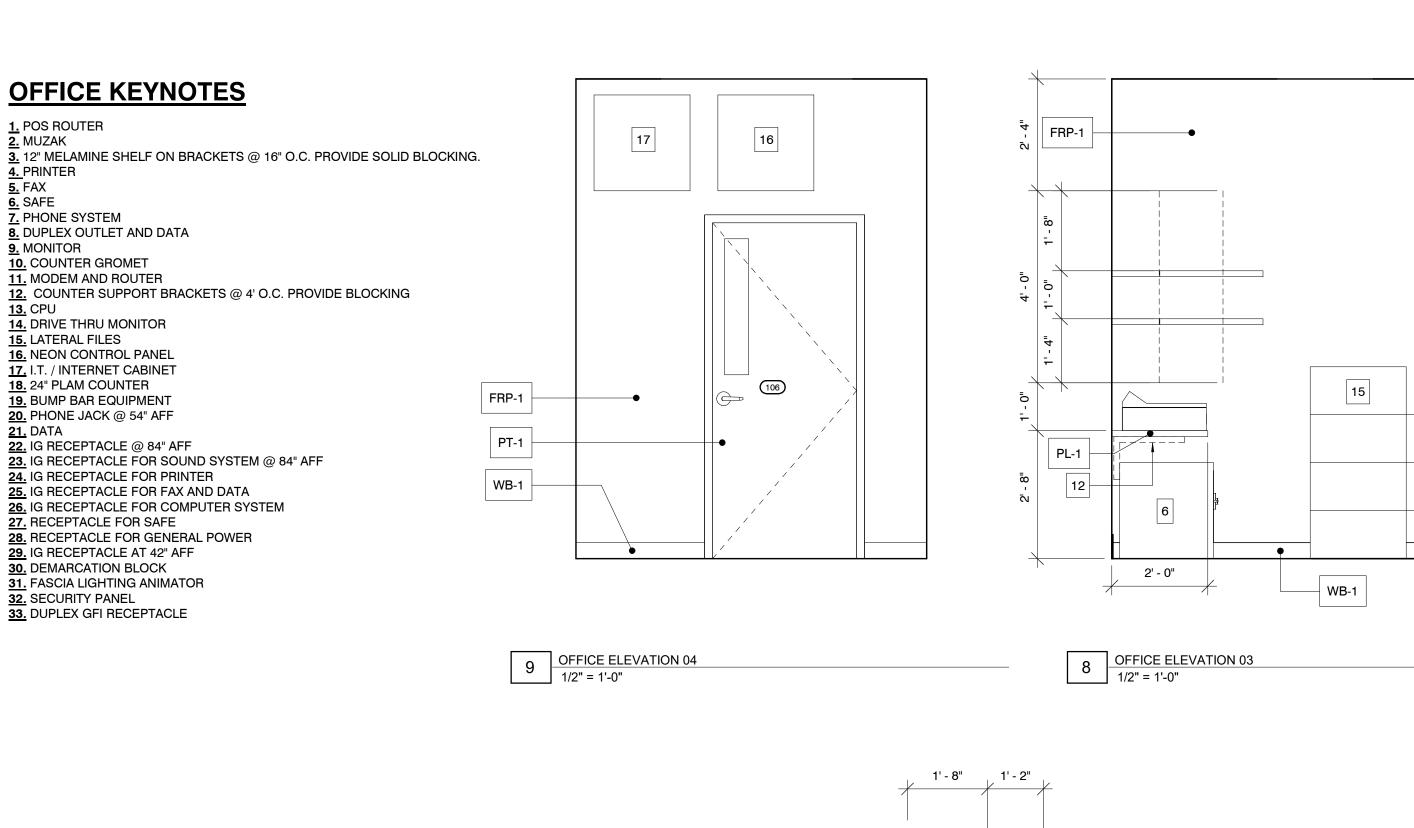
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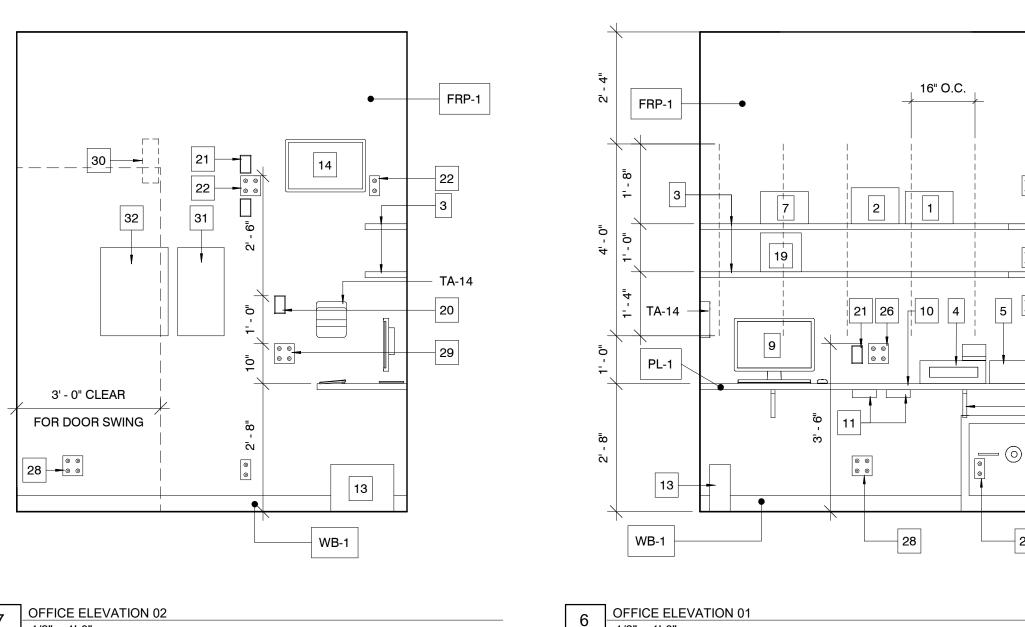


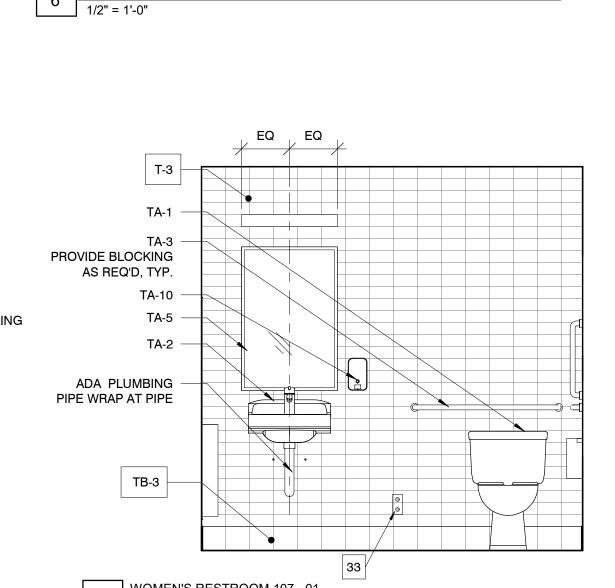
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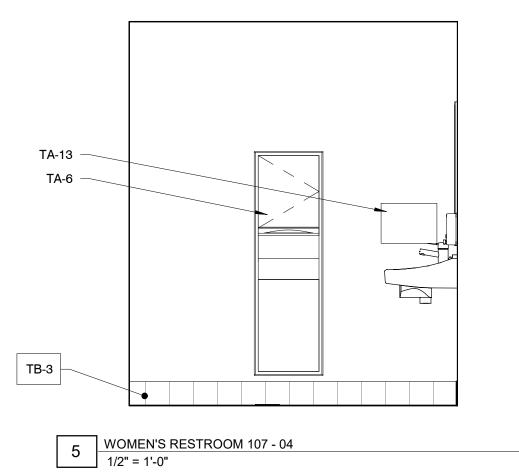
Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

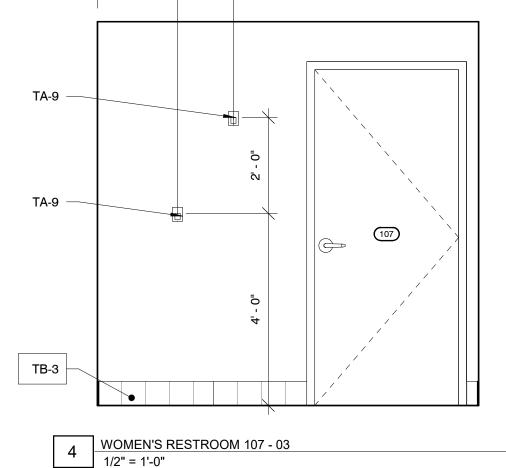
INTERIOR ELEVATIONS

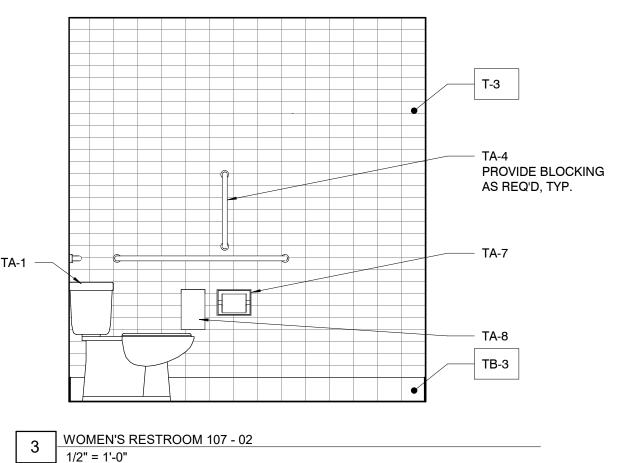












FIXTURE & ACCESSORY LEGEND

TA-6 PAPER TOWEL DISPENSOR/TRASH

TA-11 MEN'S ACCESSIBLE RESTROOM SIGN

TA-13 | EMPLOYEE HANDWASHING SIGNAGE

TA-12 | WOMEN'S ACCESSIBLE RESTROOM SIGN

TA-7 TOILET TISSUE DISPENSOR

TA-9 HAT AND COAT HOOK

TA-10 | SOAP DISPENSER

TA-14 | IPAD HOLDER

TA-8 SANITARY NAPKIN DISPOSAL

TA-1 TOILET

TA-3 GRAB BAR

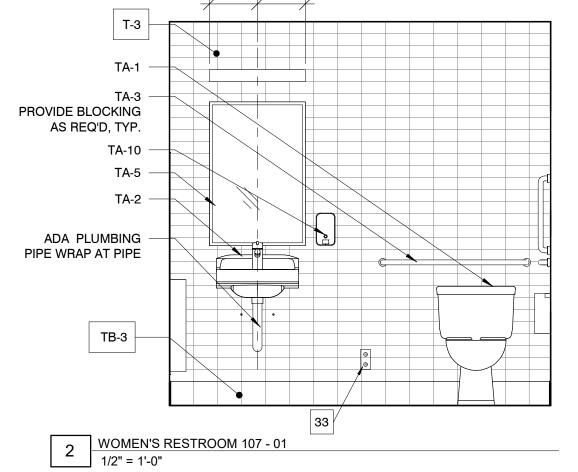
TA-4 GRAB BAR

TA-5 MIRROR

TA-2 SINK

7 OFFICE ELEVATION 02

1/2" = 1'-0"



MODEL NUMBER:

RE: PLUMB DWGS

B-5806

B-5806

B-3944

B-2888

B-254

B-6872

B-2111

EP-4402

EP-4404

S-4492

S-635

B-293-2436

RE: PLUMB DWGS

MOUNTING HEIGHTS:

36" TO TOP

36" TO TOP

40" TO BOTTOM

8" TO BOTTOM

24" TO BOTTOM

40" AFF TO BOTTOM

60" AFF TO CENTER

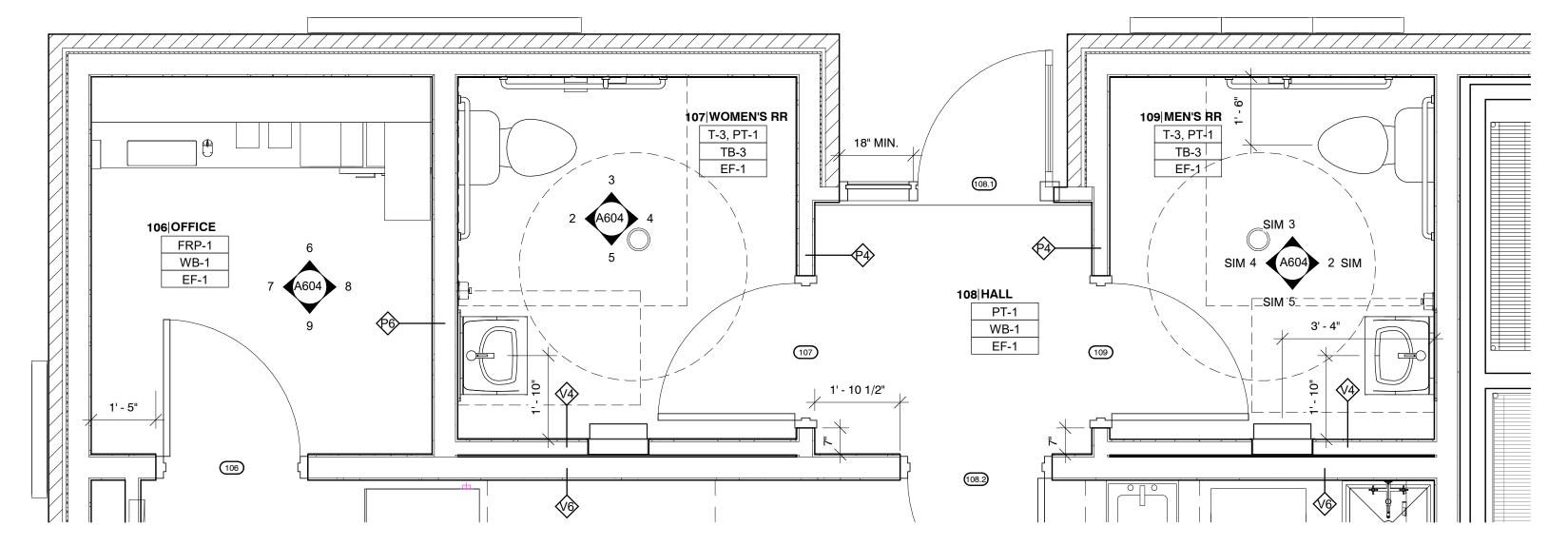
60" AFF TO CENTER

42" TO BOTTOM

BOTTOM RIGHT OF MIRROR

32" AFF TO TOP OF DISPENSOR

48" AFF ON DOOR - ADA, 72" ON DOOR



NOTE: REFER TO ACCESSIBLITY DIAGRAMS ON A001 FOR ALL STANDARND MOUNTING HEIGHTS AND LOCATIONS OF GRAB BARS, TISSUE DISPENSER, ETC.

SMART SIGNS - JUST BATHROOM SIGNS

MANUFACTURER:

RE: PLUMB DWGS

RE: PLUMB DWGS

BOBRICK

BOBRICK

BOBRICK

BOBRICK

BOBRICK

BOBRICK

BOBRICK

BOBRICK

BOBRICK

AMERAPRODUCTS

AMERAPRODUCTS

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

OWNER: ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

ARCHITECT: HUFFT

____23

3612 Karnes Boulevard

Kansas City, MO 64111 P: 816-531-0200

www.hufft.com STRUCTURAL:

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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

INTERIOR ELEVATIONS

ENLARGED PLAN - OFFICE & RESTROOMS 1/2" = 1'-0"



5/8" CONCRETE BACKER 24" TALL - 5/8" CONCRETE BACKER BOARD AT BASE OF BOARD BEHIND ENTIRE TILED PORTION OF WALL, UP TO 24" ALL PARTITIONS (BOTH SIDES) MIN (BOTH SIDES) FRP AS SCHEDULED TILE AS SCHEDULED -FRP MOLDING WALL BASE AS SCHEDULED SEALANT, COLOR TO (TILE OR METAL) MATCH FRP SEALANT, COLOR TO -MATCH TILE GROUT BASE COVE - EF-1, FLOORING TO BE EF-1, FLOORING TO BE INSTALLED PRIOR WALL FINISH INSTALLED PRIOR WALL FINISH

3 DETAIL @ INTERIOR PARTITION BASE
3" = 1'-0"

DOOR SCHEDULE:

	DOOR	DOOR	SIZE	FRAME		DETAILS				FINISH			
NO.	TYPE	WIDTH	HEIGHT	TYPE	HEAD	JAMB	SILL	DESCRIPTION	DOOR	FRAME	REMARKS	HDWR SET	COMMENTS
102	В	36"	84"	F			4/A701	STOREFRONT	ALUM/GLASS	ALUM	EXTERIOR	1.0	
103	Р	36"	84"	D	2/A701	2/A701	2/A701		HM/ PTD	HM/ PTD	EXTERIOR	2.0	TINTED FILM ON GLASS
106	Р	36"	84"	E	5/A701	5/A701	-		HM/ PTD	HM/ PTD	INTERIOR (OFFICE)	5.0	
107	Α	36"	84"	E	5/A701	5/A701	-		HM/ PTD	HM/ PTD	INTERIOR (RESTROOM)	6.0	
108.1	В	36"	84"	F			4/A701	STOREFRONT	ALUM/GLASS	ALUM	EXTERIOR	3.0	
108.2	Р	36"	84"	E	5/A701	5/A701	-		HM/ PTD	HM/ PTD	INTERIOR	7.0	ONE WAY FILM ON GLASS
109	Α	36"	84"	E	5/A701	5/A701	-		HM/ PTD	HM/ PTD	INTERIOR (RESTROOM)	6.0	
112.1	Α	40"	84"	D	2/A701	2/A701	2/A701		HM/ PTD	HM/ PTD	EXTERIOR	4.0	PEEP-HOLE IN DOOR
112.3	EE	36"	12 5/8"					Roof Hatch					

SET: 1.0			
Doors: 102			
1 Pivot Set	147	626	RF
1 Intermediate Pivot	M19	626	RF
1 Rim Exit Device, Classroom		630	YA
1 Drop Plate	7788	689	NC
1 Surface Closer	UNI7500 2018D	689	NC
1 Threshold	171A		PE
1 Set Weatherstrip	by Door Manufacturer		
1 Sweep	by Door Manufacturer		
SET: 2.0			
Doors: 103			
3 Hinge (heavy weight)	T4A3386/T4A4386 NRP	US32D	Mk
	4-1/2" x 4-1/2"		
1 Entry Lock	AU 5407LN MK	626	YΑ
1 Surface Closer	PR7500	689	NC
1 Threshold	2005AT		PE
1 Gasketing	2891AS		PE
1 Rain Guard	346C		PE
1 Sweep	3452AV		PE
1 Latch Protector	320/321	US32D	RC
SET: 3.0			
Doors: 108.1			
1 Pivot Set	147	626	RF
1 Intermediate Pivot	M19	626	RF
1 Mortise Deadlock	MS1850S	628	ΑD
1 Cylinder thumbturn	4066	130	ΑC
1 Status Indicator	4089	130	ΑD
1 Mortise Cylinder	2153	630	YΑ
1 Push Bar & Pull	BF15847	US32D	RC
1 Surface Closer	PR7500	689	NC

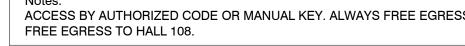
i intermediate i ivot	IVIIO	020	
1 Mortise Deadlock	MS1850S	628	ΑC
1 Cylinder thumbturn	4066	130	ΑC
1 Status Indicator	4089	130	ΑC
1 Mortise Cylinder	2153	630	YΑ
1 Push Bar & Pull	BF15847	US32D	RC
1 Surface Closer	PR7500	689	NC
1 Drop Plate	7788	689	NC
1 Blade Stop	6891	689	NC
1 Door Stop	441	US26D	RC
1 Threshold	171A		PE
1 Set Weatherstrip	by Door Manufacturer		
1 Sweep	3452AV		PE
<u>SET: 4.0</u> Doors: 112.1			
3 Hinge, Full Mortise, Hvy Wt	T4A3386/T4A4386 NRP 5" x 4-1/2"	US32D	Mł
1 Rim Exit Device, Nightlatch	7100 AU627F 1109 x 6-Pin	630	YΑ
1 Surface Closer	CLP7500R	689	NC
1 Threehold	00054T		ΡГ

346C

1 Rain Guard

1 Sweep	3452AV		F
1 Viewer	622 DCRM	DCRM	F
SET: 5.0			
Doors: 106			
3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	N
1 Entry Lock	AU 5407LN MK	626	`
1 Door Stop	441	US26D	F
3 Silencer	608		F
1 Coat Hook	RM812	US26D	ı
SET: 6.0			
Doors: 107, 109			
3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	ľ
1 Privacy Lock	AU 5402LN	626	•
1 Surface Closer	8501	689	١
4 Mall Otan	400	LICOOD	

1 Wall Stop 1 Gasketing	409 S773D	US32D	RO PE
<u>SET: 7.0</u> Doors: 108.2			
3 Hinge (heavy weight) 1 Access Control Cyl Lock 1 Surface Closer 1 Gasketing 1 Sweep	T4A3786/T4A4786 4-1/2" x 4-1/2" PUSHBUTTON AU NTB610-NR MK• 8501ST S773D 315CN	US26D 626 • 689	MK YA NO PE PE



<u>SET: 8.0</u>	
Doors: MISC	
1 BITTING LIST KEY RECORDS	
1 KEY BLANKS BOX OF 50	
1 Key Cabinet Sized per specification documents	LU
1 Knox Box Knox Box (coordinate w/ local fire station for requirer	ments and location)

RE: PROJECT MANUAL / SPECIFICATIONS FOR ADDITIONAL INFORMATION

DOOR HARDWARE SETS:

SET: 4.0 Doors: 112.1	0.192.11		
1 Set Weatherstrip 1 Sweep	by Door Manufacturer 3452AV		F
1 Door Stop 1 Threshold	441 171A	US26D	F
1 Blade Stop	6891	689	١
1 Drop Plate	7788	689	١
1 Surface Closer	PR7500	689	١
1 Push Bar & Pull	BF15847	US32D	·
1 Mortise Cylinder	2153	630	Υ
Cylinder thumbturn Status Indicator	4089	130	A
1 Mortise Deadlock	MS1850S 4066	628 130	A
1 Intermediate Pivot	M19	626	F
1 Pivot Set	147	626	P

Doors: 106			
3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	
1 Entry Lock	AU 5407LN MK	626	
1 Door Stop	441	US26D	
3 Silencer	608		
1 Coat Hook	RM812	US26D	
<u>SET: 6.0</u> Doors: 107, 109			
Doors: 107, 109			
Doors: 107, 109 3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	
Doors: 107, 109 3 Hinge, Full Mortise 1 Privacy Lock	AU 5402LN	626	
Doors: 107, 109 3 Hinge, Full Mortise 1 Privacy Lock 1 Surface Closer	AU 5402LN 8501	626 689	
Doors: 107, 109 3 Hinge, Full Mortise 1 Privacy Lock	AU 5402LN	626	

3 Hinge (heavy weight) 1 Access Control Cyl Lock•	T4A3786/T4A4786 4-1/2" x 4-1/2" PUSHBUTTON AU NTB610-NR MK•	US26D
1 Surface Closer	8501ST	689
1 Gasketing	S773D	
1 Sweep	315CN	

		ACCESS BY AUTHORIZED CODE OR MANUAL KEY. ALWAYS FREE EGRE FREE EGRESS TO HALL 108.
--	--	--

Doors: MISC	
1 BITTING LIST KEY RECORDS 1 KEY BLANKS BOX OF 50	
1 Key Cabinet Sized per specification documents	LU
1 Knox Box Knox Box (coordinate w/ local fire station for requirements ar	าd location)

: Classroom	M19 7200 AU506F 1109 x 6-Pin 7788 UNI7500 2018D 171A by Door Manufacturer by Door Manufacturer	626 630 689 689	RF YA NO NO PE	630 NW Chipman Road Lee's Summit, Missouri 64086 OWNER: ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806 www.eatandys.com
ght)	T4A3386/T4A4386 NRP 4-1/2" x 4-1/2"	US32D	MK	ARCHITECT: HUFFT 3612 Karnes Boulevard Kansas City, MO 64111
	AU 5407LN MK PR7500 2005AT	626 689	YA NO PE	P: 816-531-0200 www.hufft.com STRUCTURAL:
	2891AS 346C 3452AV 320/321	US32D	PE PE PE RO	METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P. 417, 800, 8002

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PROJECT INFORMATION:

Andy's Frozen Custard #204

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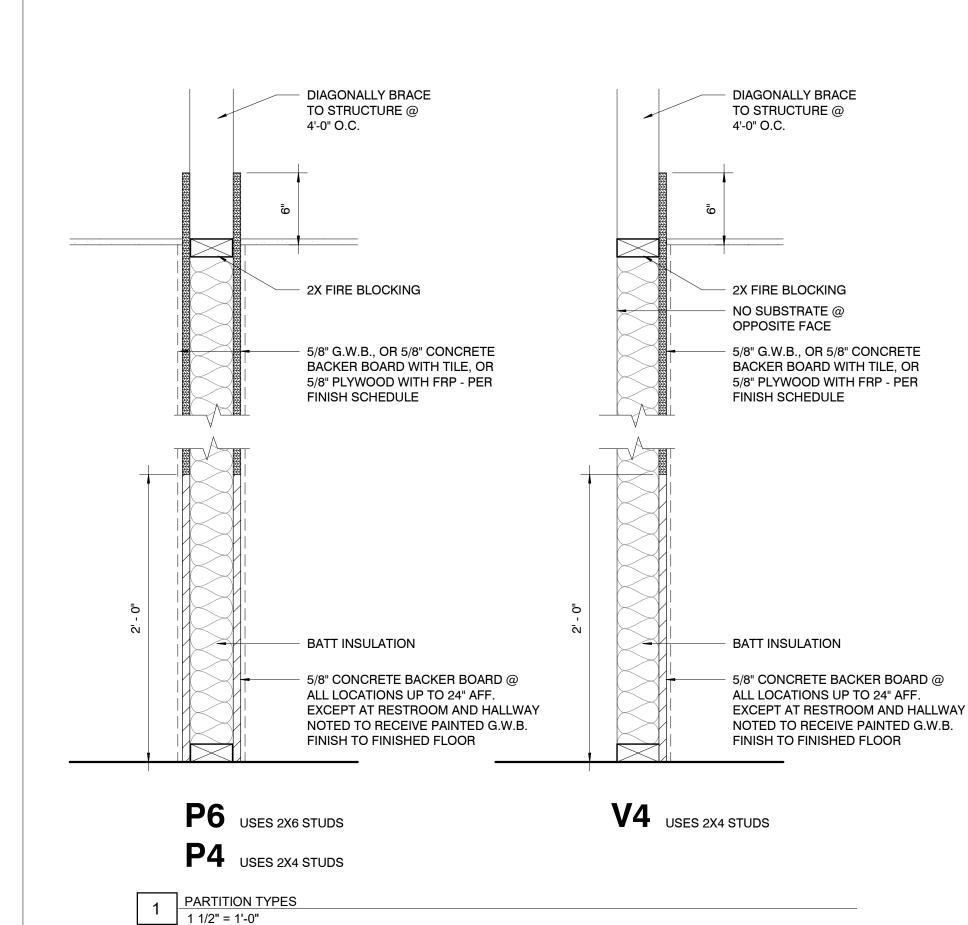
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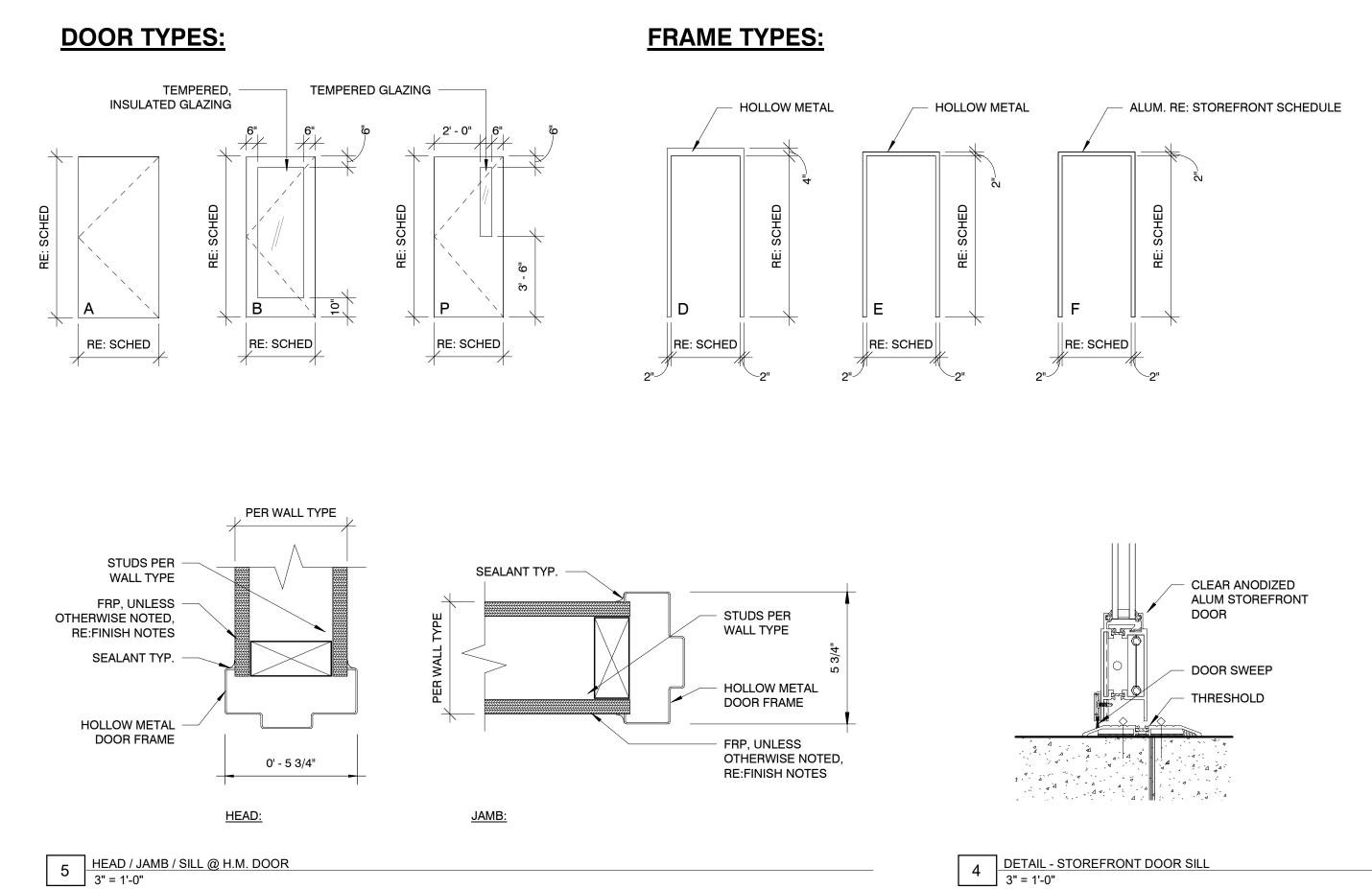


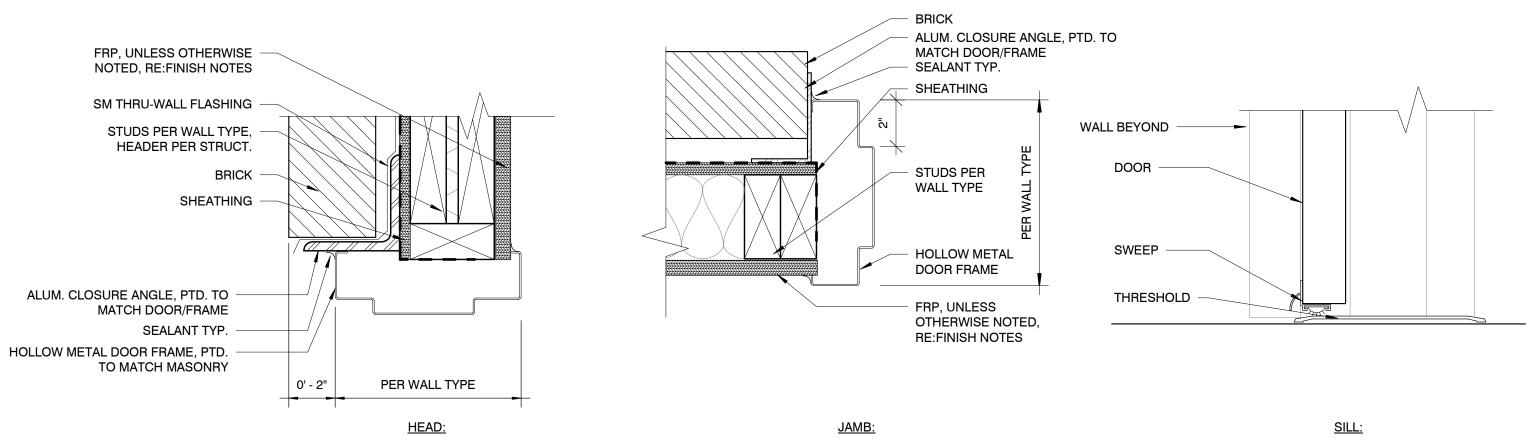
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Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

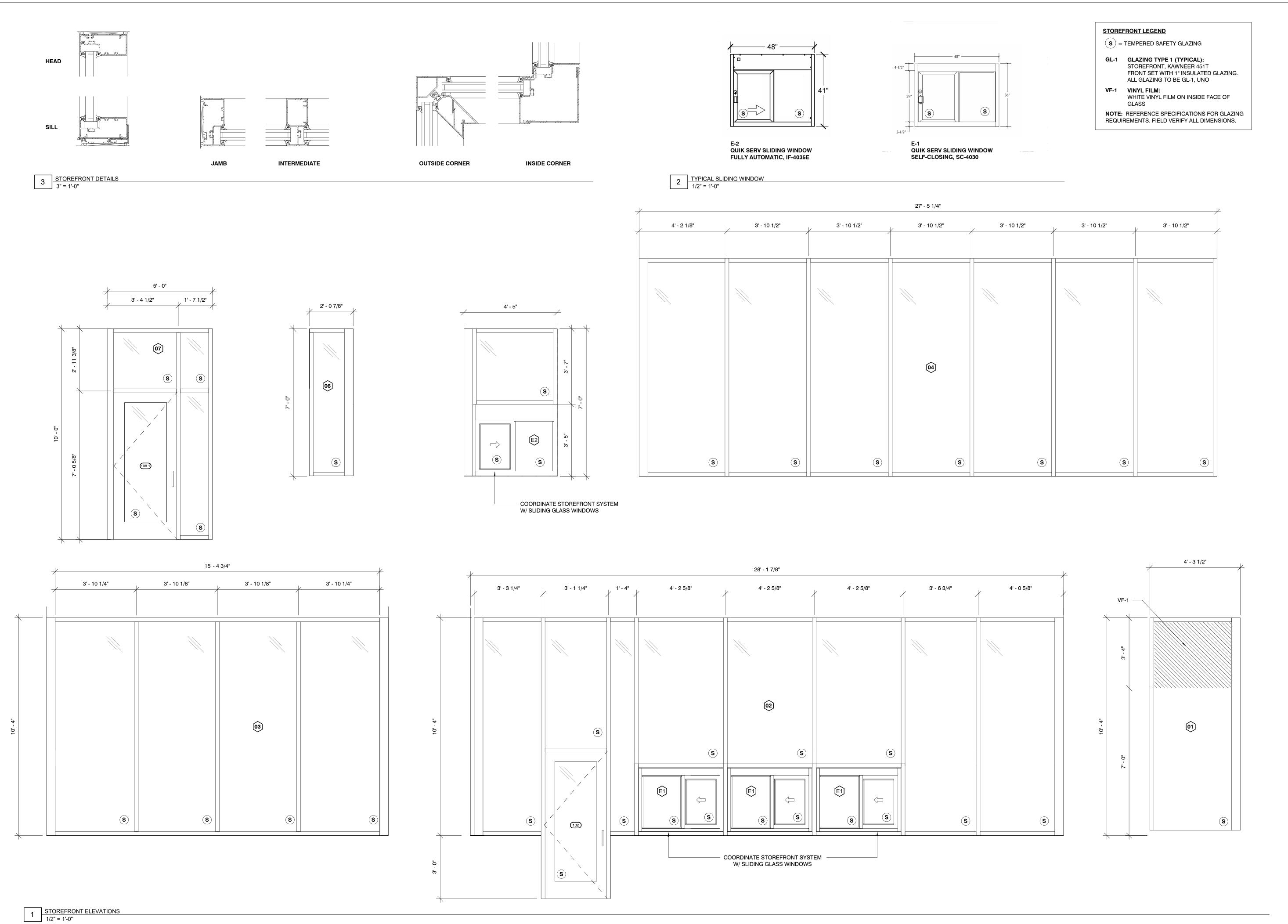
SCHEDULES AND DETAILS







2 DETAIL @ EXTERIOR HOLLOW METAL FRAME
3" = 1'-0"



Hufft

PROJECT INFORMATION:
Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri 64086

ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806

www.eatandys.com

ARCHITECT:

HUFFT
3612 Karnes Boulev

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

P: 816-531-0200 www.hufft.com

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05/30/2024

Architect: JEFFREY KLOCH License Number: A-2016005093 Drawn By: MS Project Number: 736

STOREFRONT ELEVATIONS

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

1. CONTRACTOR, BUILDER AND SUBCONTRACTORS INVOLVED IN ANY FORM OF CONSTRUCTION USING THESE CONTRACT 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 THE ENGINEER OF RECORD OR ARCHITECT 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 / 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.

2. THE CONTRACTOR SHALL USE ALL STANDARD MEANS TO ENSURE PROPER PROTECTION AND CURING OF ALL CEMENTITIOUS MATERIALS TO REDUCE CRACKING OR SURFACE SPALLING. PLAIN CONCRETE, REINFORCED CONCRETE, OR CONCRETE MASONRY DEVELOP 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. EXTREME CRACKING MAY BE CAUSED BY POOR MATERIAL OR PLACEMENT. CONTACT THE ENGINEER OF RECORD FOR POSSIBLE REPAIR REQUIREMENTS.

3. FOUNDATION SETTLEMENT MAY CAUSE DISTORTION AND DISTRESS TO THE SUPPORTED STRUCTURE AS WELL AS ADJACENT UTILITIES, SLABS, FOUNDATIONS, ETC. THE GEOTECHNICAL 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. ALL REQUIREMENTS WITHIN THE GEOTECHNICAL REPORT ARE TO BE FOLLOWED. INFORM THE ENGINEER OF RECORD OF ANY CONFLICTS BETWEEN THE REPORT AND THE DRAWINGS.

4. 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.

5. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION UNLESS SUCH VARIATIONS ARE ISSUED BY THE ENGINEER. ADDITIONS AND ALTERATIONS MAY BE MADE BY THE ENGINEER BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.

6. 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.

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

8. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE, SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

9. 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.

10. 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 AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH OTHER DISCIPLINES DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND ENGINEER OF RECORD 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.

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

13. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

14. TYPICAL GENERAL STRUCTURAL NOTES AND DETAILS 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, SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

15. 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.

16. 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. SPECIAL 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 A SPECIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

17. 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 OF RECORD SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW A MINIMUM OF 10 WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE ENGINEER'S RECORDS.

CONFLICTING REQUIREMENTS:

1. ANY AND ALL CONFLICTS WITHIN THE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS AND OTHER DOCUMENTS); OR BETWEEN THE DOCUMENTS AND EXISTING PROJECT CONDITIONS SHALL BE QUANTIFIED BY THE CONTRACTOR(S); AND ALL ASSOCIATED COSTS MUST BE INCLUDED IN THE CONTRACTOR(S) BASE BID; OR ANY AND/OR ALL COSTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S). IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO BRING EACH CONFLICT TO THE ATTENTION OF THE ENGINEER OF RECORD. ALL CONFLICTS SHALL BE IDENTIFIED IN WRITTEN FORM AND SUBMITTED THROUGH THE "REQUEST FOR INFORMATION" (RFI) PROCESS DURING BIDDING. THE ENGINEER OF RECORD SHALL REVIEW ALL IDENTIFIED CONFLICTS AND RENDER TO THE CONTRACTOR(S) THEIR DECISION.

2. IF THE CONTRACTOR(S) DO NOT SUBMIT AN RFI AND/OR DO NOT RECEIVE A DIRECTIVE OR CLARIFICATION IN WRITING FROM THE ENGINEER OF RECORD THROUGH NO FAULT OF THEIR OWN, CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE MORE STRINGENT STANDARD, OR HIGHER LEVEL OF QUALITY AT NO ADDITIONAL COSTS TO THE OWNER.

3. IF COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED AND THE STANDARDS ESTABLISHES A DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT.

DEFERRED SUBMITTALS:

1. IN ACCORDANCE WITH THE IBC SECTION 106.3.4.2, SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/ BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED AS THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER, OR INSTALLER.

2. SUBMITTALS ARE REQUIRED FOR THE FOLLOWING.

- A. SIMPSON STRONG-TIE, OR EQUAL, HARDWARE (INCLUDING ALL TRUSS HANGERS)
 B. LIGHT GAGE FRAMING
- C. CANOPIES
 D. HAND/GUARD RAILS
 E. SIGNS

3. SUBMITTALS SHALL INCLUDE:

A. CALCULATIONS PREPARED AND SEALED BY AN APPROPRIATELY REGISTERED ENGINEER (THE

"SPECIALTY ENGINEER").

B. DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER, SHOWING LOAD MAGNITUDES AND LOCATIONS - SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE.

APPLIED TO THE PRIMARY STRUCTURE.
C. ERECTION OR DESIGN DRAWINGS BEARING THE SPECIALTY ENGINEER'S SEAL AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT (1) REPRODUCIBLE COPY, ONE (1) WET SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:

A. THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.

B. THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND INTERNATIONAL BUILDING CODE REQUIREMENTS.
C. THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN.
D. THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.

6. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED THE STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL. ONLY AT THE OWNER'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEM(S) BE MADE BY THE ENGINEER OF RECORD. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL HAVE APPROVED SUBMITTAL DOCUMENTS.

ELECTRONIC FILES:

ELECTRONIC FILES CREATED BY METTEMEYER ENGINEERING, LLC. ARE AVAILABLE FOR USE BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR BUILDERS INVOLVED IN ANY FORM OF CONSTRUCTION AND BIDS ON THE PROJECT BASED ON THE FOLLOWING TERMS AND CONDITIONS:

BY USING THIS COMPUTER-GENERATED DRAWING, YOU WILL INDICATE YOUR ACCEPTANCE OF THE FOLLOWING TERMS AND CONDITIONS. THE PURPOSE OF THIS AGREEMENT IS TO SET FORTH THE CONDITIONS FOR THE USE BY A SECOND PARTY (USER) OF COMPUTER-GENERATED DRAWINGS PREPARED BY METTEMEYER ENGINEERING, LLC. METTEMEYER ENGINEERING, LLC RETAINS OWNERSHIP OF THE INFORMATION CONTAINED ON THE DRAWINGS; PERMISSION TO USE THESE MATERIALS IS GIVEN ONLY SUBJECT TO THE TERMS OF THIS AGREEMENT.

ARTICLE 1. THE INFORMATION RECORDED ON COMPUTER-GENERATED DRAWINGS REPRESENTS A PORTION OF STRUCTURAL ENGINEERING SERVICES PERFORMED BY METTEMEYER ENGINEERING, LLC. NO REPRESENTATION IS MADE BY METTEMEYER ENGINEERING, LLC THAT THE DATA IS WITHOUT INACCURACY. METTEMEYER ENGINEERING, LLC GRANTS PERMISSION TO USE ITS COMPUTER-GENERATED DRAWINGS WITH THIS UNDERSTANDING AND WITH NO LIABILITIES EITHER EXPRESSED OR IMPLIED FOR ACCURACY OR COMPLETENESS. THE USER AGREES TO HOLD HARMLESS AND DEFEND METTEMEYER ENGINEERING, LLC IN THE EVENT OF ANY ACTION AGAINST OR BY THE USER FOR THE PREPARATION OF INFORMATION GENERATED THROUGH THE USE OF COMPUTER-GENERATED DRAWINGS PREPARED BY METTEMEYER ENGINEERING, LLC. FURTHER, IN THE EVENT OF SUCH LEGAL ACTION, THE USER AGREES TO PAY REASONABLE ATTORNEY'S FEES AND EXPENSES INCURRED BY METTEMEYER ENGINEERING, LLC IN RESOLVING THE MATTER.

ARTICLE 2. COMPUTER-GENERATED DRAWINGS ARE MADE AVAILABLE SOLELY FOR THE FACILITATION OF THE USER'S WORK ON THE SPECIFIC PROJECT IDENTIFIED BELOW AND NO PERMISSION IS GRANTED HEREIN FOR COPYING OR REUSE. THE USER'S ACCEPTANCE OF THESE TERMS, WHICH IS COMMUNICATED BY OPENING OR USING THIS DRAWING, CONSTITUTES A WAIVER OF LIABILITY AND THE ACCEPTANCE OF RESPONSIBILITIES FOR THE COORDINATION OF ANY REVISIONS AND COMPUTER-GENERATED INTERLINEATIONS MADE TO THE INFORMATION TRANSMITTED.

ARTICLE 3. UTILIZATION OF COMPUTER-GENERATED DRAWINGS NOT IN ACCORDANCE WITH THE TERMS OF THIS AGREEMENT SHALL CONSTITUTE A BREACH OF THIS AGREEMENT; METTEMEYER ENGINEERING, LLC WILL AT SUCH TIME DEMAND RETURN OF ITS PROPERTY AND MAY SEEK LEGAL RECOURSE AND THE COST OF REASONABLE FEES.

STRUCTURAL FIELD OBSERVATION SCHEDULING:

BUILDING THAT IS NOT DEEMED TYPICAL.

NOTIFY THE STRUCTURAL ENGINEER OF RECORD FOR OBSERVATION OF THE FOLLOWING ITEMS: NOTE: GENERAL CONTRACTOR SHOULD ALLOW ADEQUATE TIME FOR SCHEDULING OF A SITE OBSERVATION VISIT BY THE STRUCTURAL ENGINEER, TYPICALLY THREE TO FOUR DAYS.

THE ENGINEER OF RECORD'S PERIODIC FIELD OBSERVATIONS ARE NOT TO BE CONSIDERED SPECIAL INSPECTIONS AND ARE ONLY OBSERVATIONS OF WORK TO ASSURE GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS.

1. OBSERVE FOUNDATION REINFORCING PRIOR TO CONCRETE POUR AT FIRST BUILDING IN PHASE AND FOR ANY BUILDING THAT IS NOT DEEMED TYPICAL.

2. OBSERVE WOOD FRAMING AFTER 2ND FLOOR FRAMING IS COMPLETE, BUT PRIOR TO COMPLETION OF 3RD FLOOR FRAMING AT FIRST BUILDING IN PHASE AND FOR ANY BUILDING THAT IS NOT DEEMED TYPICAL.

3. OBSERVE WOOD FRAMING AFTER COMPLETION OF WOOD FRAMING AND SHEAR WALL COMPONENTS, BUT PRIOR TO INSULATION AND DRYWALL INSTALLATION, OF FIRST BUILDING IN PHASE AND FOR ANY FOUNDATIONS:

1. GEOTECHNICAL REPORT: RONE ENGINEERING, 8206 MARSHALL DRIVE, LENEXA, KS, 66241

REPORT NO.: 24-28620

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 ARCHITECT AND ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

3. EXISTING FILL MATERIAL SHALL BE ENTIRELY REMOVED BENEATH THE BUILDING FOUNDTATION AND REPLACED WITH STRUCTURAL FILL PER GEOTECHNICAL REPORT.

4. THE BACKFILL SHALL BE PLACED AND COMPACTED ON EACH SIDE OF FOUNDATION WALLS SUCH THAT NO UNBALANCED LATERAL LOADS ARE INDUCED TO THE WALL. **PROVIDE CLEAN CRUSHED STONE BACKFILL PER GEOTECH REPORT.**

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

SLAB ON GRADE SUPPORT:

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

2. SLAB ON GROUND SUPPORT: MINIMUM 4" LAYER OF GRANULAR BASE CONSISTING OF AN OPEN

GRADED CRUSHED STONE (ASTM C33, #57 STONE OR SIMILAR), PER GEOTECHNICAL REPORT.

3. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, CONCRETE SLABS ON GROUND 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 AT MOISTURE CONTENT RANGE OF 3% BELOW TO 3% ABOVE OPTIMUM MOISTURE CONTENT BEFORE PLACEMENT OF SLABS. REFER TO GEOTECHNICAL REPORT FOR ANY ADDITIONAL REQUIREMENTS.

1. FROST DEPTH IS 36" BELOW GRADE.

2. ALLOWABLE FOOTING BEARING CAPACITY IS 1800 PSF

3. ALL FOOTINGS SHALL EXTEND TO DEPTH NOTED ABOVE UNLESS NOTED OTHERWISE 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

4. FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE FROM LOOSE DEBRIS, STANDING WATER, OR UNCOMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.

ADJACENT TO BUILDING AND EXTENDS AT LEAST 5 FEET FROM BUILDING.

5. 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 CONCRETE.

6. 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:

1. MINIMUM 28 DAY STRENGTH (fc) AS FOLLOWS:

<u>USE TYPE</u>	STRENGTH	ACIEXPOSUF	RECLAS	SIFICATI	ONS
FOUNDATIONS	4000 PSI	F1	S0	W0	C0
INTERIOR SLAB ON GROUND	4000 PSI	F0	S0	W0	C0
EXTERIOR SLAB ON GROUND	5000 PSI	F3	S0	W1	C2
AND FOUNDATION WALLS					

2. A MIX DESIGN SHALL BE SUBMITTED FOR REVIEW FOR EACH MIX TYPE AND SHALL INCLUDE ALL MATERIALS TO BE USED, SIEVE ANALYSIS OF AGGREGATE, AND DATA FOR ALL PRODUCTS.

3. AIR ENTRAINMENT AS FOLLOWS:

A. EXTERIOR CONCRETE SHALL BE PER ASTM C260, 6% +- 1.5%
B. INTERIOR CONCRETE SHALL BE LIMITED TO 3% IN ACCORDANCE WITH ACI 302.1R

4. FLY ASH MAY BE USED AT CONTRACTOR'S OPTION. IF USED IT SHALL BE LIMITED TO 20% AND

MEET ASTM 6618, CLASS C OR F.

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

5. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER ACCORDING TO ACI 301.

6. THE CONCRETE SUPPLIER SHALL STATE THE SLUMP AND ADDITIVES USED IN THE MIX DESIGN. A. MAXIMUM SLUMP FOR EXTERIOR SLABS SHALL BE 4" +/- 1".
B. MAXIMUM SLUMP FOR ALL OTHER CONCRETE SHALL BE 3" +/- 1".
C. 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 OR F, SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX. THE ONLY WATER WHICH MAY BE ADDED ONSITE IS MIX WATER THAT HAS BEEN LEFT

OUT AT THE BATCH PLANT.

D. CONCRETE DELIVERY TICKET SHALL CLEARLY INDICATE THE AMOUNT OF MIX WATER WHICH HAS BEEN LEFT OUT. MAXIMUM SLUMP SHALL BE 8" FOR CONCRETE WITH VERIFIED SLUMP OF 2" TO 4" BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE. SEE DIVISION 3 SPECIFICATIONS FOR ADDITIONAL

7. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE II CEMENT. CALCIUM CHLORIDE IS NOT ALLOWED.

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

9. 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 GROUND NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR UPLIFT ANCHORS, CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

10. ALL ITEMS THAT ARE CAST INTO CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, EMBEDS, INSERTS, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE. SUPPORT ALL REINFORCING WITH CHAIRS AS REQUIRED. FLOATING IN OF THESE ITEMS IS NOT PERMITTED. REINFORCING, DOWELS, EMBEDS, AND INSERTS SHALL BE CLEAN OF RUST, OILS, AND DIRT PRIOR TO CASTING.

11. CONCRETE SLAB ON GROUND 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 GROUND SHALL BE BOUND BY KEYED, DOWELED OR SAWCUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 144 SQUARE FEET. RATIO OF BOUNDARY DIMENSIONS SHALL NOT EXCEED 1.5:1. LOCATE CONTROL JOINTS OFF OF CORNERS OF DIAMOND ISOLATION LEAVE OUTS AND RE-ENTRANT CORNERS. KEYED OR DOWELED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAWCUT. SAWCUT JOINTS SHALL BE CUT IN SLABS ON GROUND AS SOON AS POSSIBLE WITHIN 24 HOURS AFTER SLAB FINISHING AS MAY BE SAFELY DONE WITHOUT DISLODGING AGGREGATE.

12. 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 MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE OUTSIDE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.

13. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO HOT OR COLD WEATHER IN ACCORDANCE WITH ACI 305 AND 306 AND IBC SECTION 1905.
WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST IN PLACE CONCRETE ELEMENTS USING EPOXY ADHESIVES, FOLLOW ALL MANUFACTURERS RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEERS PRIOR APPROVAL.

CONCRETE TESTING SERVICES:

1. TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:

A. FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CUBIC YARDS (4 CUBIC METERS), BUT LESS THAN 25 CUBIC YARDS (19 CUBIC METERS), PLUS ONE SET FOR EACH ADDITIONAL 50 CUBIC YARDS (38 CUBIC METERS) OR FRACTION THEREOF. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.

B. SLUMP: ASTM C 143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.

C. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL-WEIGHT CONCRETE; ASTM C 173, VOLUMETRIC METHOD, FOR STRUCTURAL LIGHTWEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE

D. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES FAHRENHEIT (4.4 DEGREES CELSIUS) AND BELOW AND WHEN 80 DEGREES FAHRENHEIT (27 DEGREES CELSIUS) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.

E. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M; CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. FIELD-CURED SPECIMENS BELOW MAY BE REQUIRED TO VERIFY ADEQUACY OF CURING AND PROTECTION OF CONCRETE OR TO VERIFY STRENGTH FOR REMOVAL OF SHORING AND RESHORING IN MULTISTORY CONSTRUCTION.

F. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; TEST TWO LABORATORY-CURED SPECIMENS AT 7 DAYS AND TWO AT 28 DAYS. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED. ANY CONCRETE SAMPLING BEYOND THE DAYS ABOVE SHALL BE DIRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S COST.

MASONRY (CONCRETE BLOCK) AND CLAY MASONRY:

1. ALL MASONRY OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE ACI 530 AND THE IBC.

2. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION, (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH SHALL BE (F'm) 1500 PSI PSI.

A.	MASONRY ASSEMBLY STRENGTH (F'm DESIGN)	2000 PSI
В.	BLOCK STRENGTH	2000 PSI
C.	TYPE S MORTAR STRENGTH	2000 PSI
D.	GROUT STRENGTH	3000 PSI
E.	TYPE N MORTAR STRENGTH	2650 PSI

3. 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 NOTED OTHERWISE) WITH ALL VERTICAL CELLS IN ALIGNMENT.

4. MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF ACI 530, TYPE M OR S, TYPE S MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.

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

6. INSTALLATION OF GROUT SHALL BE COMPLETED USING A LOW LIFT GROUT PROCEDURE. STOP GROUT 1 1/2" BELOW TOP OF BLOCK AT EACH LIFT.

7. LAP REINFORCING 60 BAR DIAMETERS FOR GRADE 60.

8. MINIMUM WALL VERTICAL REINFORCING, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, SHALL BE A SINGLE #5 BAR AT 32" O.C. FULL HEIGHT IN CENTER OF GROUTED CELL. PROVIDE REINFORCING AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, OPENING JAMBS, AND EACH SIDE OF CONTROL JOINTS. MAXIMUM SPACING SHALL NOT EXCEED 48 INCHES ON CENTER. TIE AT 8'-0" VERTICALLY, AT BOND BEAM LOCATIONS, WITH SINGLE WIRE LOOP TIE OR EQUIVALENT. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH AND LAP VERTICAL REINFORCING.

9. MINIMUM WALL HORIZONTAL REINFORCING, UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, SHALL BE A SINGLE #5 BAR IN CENTER OF 8 INCH DEEP CONTINUOUSLY GROUTED BOND BEAMS AT 8'-0" O.C. AND AT TOP OF PARAPETS OR FREE-STANDING WALLS. BOND BEAMS SHALL BE CONTINUOUS 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.

10. MINIMUM LINTEL ASSEMBLY, UNLESS NOTED OR DETAILED OTHERWISE, SHALL BE 24" DEEP CONSISTING OF TWO COURSES OF 8" DEEP OPEN END CMU OVER 8" DEEP BOND BEAM OR LINTEL BLOCK. REINFORCE WITH (2) #5 IN BOTTOM OF BOND BEAM OR LINTEL BLOCK. GROUT ASSEMBLY SOLID AND EXTEND A MINIMUM OF 2'-0" PAST EACH JAMB.

UNITS. PROVIDE GALVANIZED 9 GAUGE WIRES SPACED AT 16" O.C. AT FACE SHELLS. STOP JOINT REINFORCING EACH SIDE OF VERTICAL CONTROL JOINTS.

11. LADDER OR TRUSS TYPE REINFORCING SHALL BE USED AT JOINTS BETWEEN MASONRY

12. UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS PROVIDE CONTROL / EXPANSION JOINTS AT 24'-0" ON CENTER OR 1.5x HEIGHT, WHICHEVER IS LESS.

STEEL LINTELS:

1. LINTELS FOR OPENINGS LESS THAN 4'-0" ARE L5x5x3/8 W/ 8" OF BEARING ON EACH SIDE OF THE OPENING.

2. LINTELS FOR OPENINGS MORE THAN 4'-0" ARE L5x5x3/8 W/ (2) 1/4"x4-1/2" (SDS25412) SIMPSON SDS SCREW AT 16" O.C. SPACING.

3. PROVIDE 8" OF END BEARING ON EACH SIDE OF THE OPENING FOR ALL LINTELS.

4. GALVANIZE ALL STEEL LINTELS.

ABBREVIATIONS:

1. B/ = BOTTOM OF

2. BRG = BEARING

3. DBE = DECK BEARING ELEVATION

4. EL = ELEVATION

5. EOR = ENGINEER OF RECORD

6. fc = CONCRETE COMPRESSIVE STRENGTH

7. FTG = FOOTING 8. FV = FIELD VERIFY

9. G.C. = GENERAL CONTRACTOR

10. H.A.S. = HEADED ANCHOR STUD

11. JBE = JOIST BEARING ELEVATION

12. MEP = MECHANICAL, ELECTRICAL, PLUMBING

13. MFR = MANUFACTURER

14. RTU = ROOF TOP UNIT

15. T/ = TOP OF

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

STRUCTURAL STEEL:

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

SHAPE	STANDARD	<u>Fy</u>
ROLLED WIDE FLANGE SECTIONS	ASTM A992	50 KSI
CHANNELS AND ANGLES	ASTM A36	36 KSI
BARS AND PLATES	ASTM A36	36 KSI
BOLTS AT STEEL CONNECTIONS	ASTM A325 OR A490	
ANCHOR RODS	ASTM F1554	36 KSI

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. ALL NON-SLIP CRITICAL BOLTS SHALL BE INSTALLED IN SNUG TIGHT CONDITION.

3. BOLTS FOR SLIP-CRITICAL CONNECTIONS SHALL BE LOAD INDICATOR BOLTS (LIB) OR SHALL BE EQUIPPED WITH LOAD INDICATOR WASHERS WHICH PROVIDE AN EASY MEANS OF VISUALLY VERIFYING PROPER BOLT TENSION. WHERE LOAD INDICATOR BOLTS CANNOT BE USED DUE TO SPACE RESTRICTIONS OR FOR OTHER REASONS, BOLTS MAY BE TIGHTENED USING THE TURN OF THE NUT METHOD AS OUTLINED IN THE AISC "STEEL CONSTRUCTION MANUAL". NO PAINT SHALL BE APPLIED IN THE REGION OF THE SLIP CRITICAL CONNECTIONS.

4. ALL THREADED ROD AND ALL BOLTED CONNECTIONS INVOLVING WOOD MEMBERS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.

5. ALL BOLTS AND WASHERS IN CONTACT WITH TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, CODE REFERENCED EDITION.

6. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS

7. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDS INVOLVING REINFORCING BARS SHALL USE E90 SERIES ELECTRODES. 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. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING

8. 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.

9. STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED ACCORDING TO ALL APPLICABLE SECTIONS OF THE CODE REFERENCED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF STRUCTURAL STEEL AND SHALL INCLUDE LAYOUT AND DIMENSIONS OF FRAMING PLANS, CONNECTION DETAILS, AND SEQUENCE, ETC. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SITE.

10. HEAVY LOADS THAT EXCEED 75% OF ALLOWABLE LIVE LOADS SHOWN ON THE PLANS, FOR TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, OR OTHER LOADS NOT SHOWN IN THE CONTRACT DOCUMENTS, SHALL NOT BE PLACED OR SUPPORTED FROM ELEVATED STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

11. INSPECTION OF STRUCTURAL STEEL CONNECTIONS SHALL BE PERFORMED BY A QUALIFIED INSPECTOR RETAINED BY THE CONTRACTOR, APPROVED BY THE ENGINEER AND OWNER. INSPECTOR QUALIFICATION SHALL BE BASED ON COMPLIANCE WITH APPROPRIATE PROVISIONS OF THE AWS CODE- D1.1. INSPECTION SHALL INCLUDE VISUAL INSPECTION OF ALL COMPLETED STRUCTURAL WELDED CONNECTIONS. THE INSPECTING AGENCY SHALL BE NOTIFIED BEFORE ANY WELDING WORK BEGINS AND SHALL BE RESPONSIBLE FOR VERIFICATION OF WELDERS CERTIFICATIONS, INSPECTION OF CONNECTIONS BEFORE WELDING BEGINS, AND INSPECTION DURING WELDING UNTIL THE INSPECTOR IS SATISFIED THAT THE WELDING PROCESS IS BEING PERFORMED PER AWS REQUIREMENTS.

12. 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.

MECHANICAL CONTRACTOR SHALL DESIGN AND SUPPLY ALL FRAMING AS REQUIRED TO SUPPORT OR SUSPEND EQUIPMENT, DUCTS,

AND PIPING BETWEEN FRAMING OUTLINED IN HE CONTRACT DOCUMENTS. REFER TO MEP / HVAC DRAWINGS FOR EXACT LOCATIONS

AND WEIGHTS OF ITEMS TO BE SUPPORTED OR SUSPENDED AND VERIFY CONFORMANCE WITH STRUCTURAL FRAMING PLANS.

REINFORCING STEEL (FOR CONCRETE AND MASONRY):

CONCRETE" (ACI 318) BY THE AMERICAN CONCRETE INSTITUTE.

REINFORCED CONCRETE IS DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED

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 CODE REFERENCED EDITIONS OF CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS" MAY ALSO BE USED.

3. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615. REINFORCING SHALL BE GRADE 60 (Fy = 60 KSI) DEFORMED BARS FOR ALL REINFORCING 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:

 EXPOSED TO EARTH OR WEATHER:
 #5 AND SMALLER
 1 1/2"
 3/8"

 #6 AND LARGER
 2"
 3/8"

 SLABS ON GRADE:
 1 1/2"
 1/4"

OTHERWISE. STAGGER SPLICES A MINIMUM OF ONE LAP IN LENGTH. NO TACK WELDING OF REINFORCING BARS IS ALLOWED. CODE REFERENCED 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 TOP BARS AT CENTER LINE OF SPAN AND BOTTOM BARS AT THE SUPPORT IN SPANDRELS, BEAMS, GRADE BEAMS, ETC. UNLESS NOTED OTHERWISE.

6. LAP SPLICES OF REINFORCING STEEL IN ALL CONCRETE SHALL BE ACCORDING TO ACI 318 (CLASS B SPLICE), UNLESS NOTED

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.

11. AT CORNERS OF FOOTINGS SUPPLY CORNER BARS 4'-0" LONG MINIMUM (2'-0" EACH LEG, OR 30 BAR DIAMETERS).

12. ALL SLABS AND STAIRS NOT SHOWN OTHERWISE SHALL BE 8" THICK AND REINFORCED WITH #4 BARS AT 6" O.C. EACH WAY CENTERED. ALL EXTERIOR PORCHES AND STOOPS NOT OTHERWISE DETAILED MAY BE CONSTRUCTED IN ANY STANDARD MANNER, SOLID OR HOLLOW, BUT MUST BE REINFORCED WITH #4 BARS AT 12" O.C. MINIMUM EACH WAY. PORCHES SHALL BE DOWELED TO ADJACENT WALLS OR GRADE BEAMS WITH #4 BARS AT 12" O.C. HOOKED OR EMBEDDED 30 DIAMETERS INTO BOTH MEMBERS. SLOPE PORCHES 1/8" PER FOOT FOR DRAINAGE UNLESS NOTED OTHERWISE.

13. ACCESSORIES SHALL BE AS SPECIFIED IN CODE REFERENCED EDITION OF CRSI DESIGN HANDBOOK. MAXIMUM ACCESSORY SPACING SHALL BE 4'-0" O.C.

14. AT ALL HOLES IN CONCRETE WALLS AND SLABS, ADD 2-#5 BARS (LENGTH IS OPENING DIMENSION PLUS 3'-0" LONG EACH WAY) AT EACH OF FOUR SIDES AND ADD 2-#5x5'-0" DIAGONALLY AT EACH OF THE FOUR CORNERS OF THE HOLE. IN 8" WALL OPENINGS REINFORCE SAME, BUT 1-#5 BAR INSTEAD OF 2-#5 BARS, RESPECTIVELY.

MECHANICAL SPLICE COUPLERS, FLANGE COUPLERS, THREADED COUPLERS, ETC. SHALL HAVE CURRENT ICC APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

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ISSUE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

DATE

PRIMARY CONTACT:

SECONDARY CONTACT:

05/01/2024

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License Number: MO# E-200016247
Drawn By: JCF
Project Number: 24-0121

GENERAL NOTES

Engineer: Alan R. Mettemeyer

2000

POST-INSTALLED ANCHORS:

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. SPECIAL INSPECTIONS ARE REQUIRED PER THE PROVISIONS SET FORTH IN BELOW REFERENCED IBC CODE REPORTS. ANCHORS ARE TO BE INSTALLED BY EXPERIENCED INSTALLERS OR CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRODUCT INSTALLATION TRAINING ON INITIAL ANCHORS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

2. CONCRETE ANCHORS

A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) HILTI KWIK HUS-EZ "KH-EZ" (ICC-ES ESR-3027)

B. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

SIMPSON STRONG-TIE "GT" (ICC-ES ESR-2508) HILTI HIT-HY 200-A (ICC-ES ESR 3187)

3. MASONRY ANCHORS

A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY

MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) HILTI "KH-EZ" CRC (ICC-ES ESR-3056)

ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

NAILING:

AND 2 - 20d FACE NAILS AT ENDS AND AT

EACH SPLICE)

SIMPSON STRONG-TIE "GT" (ICC-ES ESR-1772) HILTI "HIT-HY 200-A (ICC-ES ESR-3963)

CONNECTION TYPE:

1. JOIST TO SILL OR GIRDER, 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 8 - 16d 3 - 8d TOENAIL 8d @ 6" O.C. TOENAIL
20. CEILING JOISTS TO PARALLEL RAFTERS 21. RAFTER TO PLATE	3 - 16d MIN. FACE NAIL (SEE TABLE 2308.10.4. 3 - 8d TOENAIL
	2 - 8d FACE NAIL
23. 1"x8" SHÉATHING OR LESS TO EACH BEARING	3 - 8d FACE NAIL
24. WIDER THAN 1"x8" SHEATHING TO EACH BEARING	
25. BUILT-UP CORNER STUDS	16d @ 24" O.C.
26. 2" PLANKS	16d AT EACH BEARING
27. COLLAR TIE TO RAFTER	3 - 10d FACE NAIL 3 - 10d TOENAIL OR 2 - 16d FACE NAIL
28. JACK RAFTER TO HIP 29. ROOF RAFTER TO 2-BY RIDGE BEAM	2 - 16d TOENAIL OR 2 - 16d FACE NAIL
30. JOIST TO BAND JOIST	2 - 100 TOENAIL OR 2 - 100 FACE NAIL 3 - 164 EACE NAIL
31. LEDGER STRIP	3 - 16d FACE NAIL 3 - 16d FACE NAIL
32. BUILT-UP GIRDER AND BEAMS	(20d @ 32" O.C. FACE NAIL AT TOP AND
SELECTION SINGERVIND BEINNO	BOTTOM STAGGERED ON OPPOSITE SIDES

STRUCTURAL LUMBER:

1. LUMBER SHALL BE GOOD SOUND, WELL SEASONED, S4S, AND MOISTURE CONTENT OF 19% MAXIMUM WITH THE FOLLOWING ALLOWABLE STRESSES:

STUDS:	BEAMS & JOISTS:	LVL BEAMS:	TREATED BEAMS & JOISTS:
#2 DOUGLAS-FIR	#2 DOUGLAS-FIR	A. F _b = 2900 PSI	#1 S.Y.P.
A. $F_b = 900 PSI$	A. $F_b = 900 PSI$	B. $F_c = 2900 PSI$	
B. $F_c = 1350 PSI$	B. $F_c = 1350 \text{ PSI}$	C. E = 2000000 PSI	
C. $F_v = 180 \text{ PSI}$	C. $F_v = 180 \text{ PSI}$		

A. PLATES IN CONTACT WITH CONCRETE SHALL BE TREATED #1 SOUTHERN YELLOW PINE (S.Y.P.).

B. CONTRACTOR MAY SUBSTITUTE AN ALTERNATE SPECIES ONLY WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.

C. LUMBER SHALL BE SELECTED SUCH THAT NO PIECES WITH LARGE KNOTS, WARPS, SPLITS, OR DEFECTS ARE USED.

2. FRAMING, ROUGH CARPENTRY, AND MISCELLANEOUS CARPENTRY WORK SHALL BE GOVERNED BY THE 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 GENERAL CONTRACTOR / PROJECT MANAGER PROVIDE A COPY OF THIS CHAPTER TO ALL PERTINENT PARTIES.

3. THE GENERAL CONTRACTOR / PROJECT MANAGER AND FRAMING SUB-CONTRACTOR ARE RESPONSIBLE FOR INSTALLING THE CORRECT NAIL SIZE AS SPECIFIED ON THE CONTRACT DOCUMENTS AND/OR ON APPROVED TRUSS SHOP DRAWINGS. COMMON NAIL SIZES ARE AS FOLLOWS AND SHOULD BE CONSIDERED AS MINIMUMS.

DESIGNATION	DIAMETER	LENGTH
8D	0.131"	3"
10D	0.148"	3"
12D	0.148"	3 1/4"
16D	0.162"	3 1/2"

D. E = 1600000 PSI D. E = 1600000 PSI

4. THE GENERAL CONTRACTOR / PROJECT MANAGER AND FRAMING SUB-CONTRACTOR ARE RESPONSIBLE FOR VERIFYING THE APPROPRIATE NAIL SIZE WHEN USING NAIL GUNS. FAILURE TO USE CORRECT NAIL SIZES, AS STATED ABOVE, MAY RESULT IN THE REMOVAL OF ALL CONSTRUCTION TO DATE AND RECONSTRUCTING AT FRAMING CONTRACTOR'S EXPENSE.

5. THE USE OF NAIL GUNS FOR JOIST HANGERS IS LIMITED PER MANUFACTURER'S RECOMMENDATIONS.

6. DRIVING NAILS INTO EXISTING HOLES IS NOT ACCEPTABLE UNLESS THE ORIGINAL NAIL SIZE IS 75% OF THE DIAMETER OF THE NEW NAIL.

7. HOLES DRILLED IN EXTERIOR WALLS, SHEAR WALLS, AND INTERIOR LOAD BEARING WALLS FOR WIRING AND/OR PLUMBING SHALL BE CENTERED. NO OTHER HOLES OR NOTCHES ARE PERMITTED. ALLOWED HOLE SIZES ARE AS FOLLOWS:

STUD OR PLATE SIZE	MAXIMUM HOLE DIAME
2x4	1"
2x6	1"
2x8	1 1/2"

8. HOLES DRILLED IN NON-LOAD BEARING INTERIOR WALL STUDS FOR WIRING AND/OR PLUMBING SHALL BE CENTERED. NO OTHER HOLES OR NOTCHES ARE PERMITTED. ALLOWED HOLE SIZES ARE AS FOLLOWS:

STUD OR PLATE SIZE	MAXIMUM HOLE DIAMET
2x4	2"
2x6	3 1/4"
2x8	4 1/4"

9. HOLES OR NOTCHES IN JOISTS AND RAFTERS ARE NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE PROPOSED HOLE OR NOTCH SIZES AND LOCATIONS FOR

10. MULTIPLE LAMINATIONS (TRIPLE 2x MAXIMUM) SHALL BE NAILED TOGETHER WITH 2 ROWS OF 0.162x3 1/2" NAILS EACH FACE FOR THREE PLY AND ONE FACE FOR TWO PLY AT 24" O.C. STAGGERED 12". CINCH NAILS AS REQUIRED.

12. SPECIFIED CONNECTORS ARE SIMPSON PRODUCTS PER 2019-2020 CATALOG AND ARE TO BE INSTALLED PER THE

11. TYPICAL MINIMUM NAILING REQUIREMENTS ARE PER THE NAILING SCHEDULE ON THE CONTRACT DOCUMENTS.

MANUFACTURER'S RECOMMENDATIONS.

13. ALL BEAMS BEARING PERPENDICULAR TO WALL FRAMING SHALL BE SUPPORTED BY MULTIPLE STUDS FOR THE FULL WIDTH OF THE BEAM. MULTIPLE STUDS SHALL CONTINUE TO FOUNDATION.

14. SILL PLATES AT ALL STRUCTURAL WALLS SHALL BE SECURED TO THE FOUNDATION WITH SIMPSON THDB62600HMG (5/8"Øx6") SCREW ANCHORS AT 4'-0" O.C. MAXIMUM SPACING UNLESS NOTED OTHERWISE. USE A MINIMUM OF TWO SCREW ANCHORS PER SECTION OF PLATE. SCREW ANCHORS SHALL BE PLACED AT A MAXIMUM OF 12" FROM END OF PLATE AND NO CLOSER THAN 4" FROM END OF PLATE, REFER TO IBC CHAPTER 23. SCREW ANCHOR SPACING MAY DIFFER AT SHEAR WALLS. REFER TO SHEAR WALL SCHEDULE, PLANS, AND DETAILS FOR ADDITIONAL INFORMATION.

15. SILL PLATES AT NON-STRUCTURAL WALLS SHALL BE SECURED TO THE FOUNDATION WITH (1) 0.157"Ø POWDER ACTUATED FASTENER AT 32" O.C. MAXIMUM SPACING. USE A MINIMUM OF TWO P.A.F. ANCHORS PER SECTION OF PLATE. P.A.F. ANCHORS SHALL BE PLACED AT A MAXIMUM OF 12" FROM END OF PLATE AND NO CLOSER THAN 4" FROM END OF PLATE, REFER TO IBC CHAPTER 23.

16. 2x FRAMED OVERBUILDS NOT OTHERWISE CALLED OUT ON PLANS SHALL BE 2x6 JOISTS AT 24" O.C. WITH MAXIMUM SPAN OF 8'-0". PROVIDE CRIPPLE WALLS AS REQUIRED. CRIPPLE WALLS SHALL BEAR DIRECTLY OVER ROOF FRAMING MEMBERS BELOW. DO NOT BEAR CRIPPLE WALLS ON SHEATHING ONLY.

17. CONCENTRATED LOADING SUCH AS CEILINGS, PIPE HANGERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES, ETC. WHICH ARE TO BE ATTACHED TO ELEVATED FLOOR OR ROOF STRUCTURES SHALL BE SECURED TO THE JOISTS, RAFTERS, TRUSSES, OR BEAMS, NOT TO THE FLOOR OR ROOF SHEATHING.

1. ROOF SHEATHING SHALL BE 5/8" THICK, 32/16 APA RATED, EXPOSURE 1. BLOCKING IS NOT REQUIRED AT EDGES. SECURE SHEATHING TO SUPPORTS WITH 0.131"Ø NAILS WITH A MINIMUM 1 5/8" PENETRATION INTO FRAMING MEMBER.. PLACE NAILS AT 6" O.C. AT EDGES AND AT 12" O.C. IN THE FIELD. TYPICAL UNLESS NOTED OTHERWISE. PROVIDE SIMPSON PSCL PANEL SHEATHING CLIPS BETWEEN EVERY ROOF TRUSS OR JOIST.

2. MINIMUM SHEATHING SHEET SIZE SHALL BE 2'-0"x4'-0" AND TWO-SPAN MINIMUM. SHEATHING SHALL BE LAID HORIZONTALLY PER TYPICAL DETAILS ON S0 SHEETS.

3. NAILS USED TO ATTACH SHEATHING SHALL HAVE A MINIMUM PENETRATION OF 1 5/8" INTO THE SUPPORTING

4. WHERE EDGE NAILING OCCURS FOR MULTIPLE SHEETS ON A SINGLE SUPPORTING MEMBER OFFSET NAILS 1 1/2" 5. CONCENTRATED LOADING SUCH AS CEILINGS, PIPE HANGERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES,

ETC. WHICH ARE TO BE ATTACHED TO ELEVATED FLOOR OR ROOF STRUCTURES SHALL BE SECURED TO THE

JOISTS, RAFTERS, TRUSSES, OR BEAMS, NOT TO THE FLOOR OR ROOF SHEATHING.

6. A 6" MAXIMUM DRILLED HOLE IS ALLOWED IN SHEATHING. HOLES LARGER THAN 6" DIAMETER REQUIRE ADDITIONAL FRAMING OR REINFORCEMENT. CONTACT ENGINEER OF RECORD FOR ADDITIONAL FRAMING REQUIRED.

EXTERIOR WALL AND SHEAR WALL SHEATHING

1. SHEATHING SHALL BE AS NOTED ON THE PLANS AND SCHEDULES. AS A MINIMUM, SHEATHING SHALL BE 7/16" THICK, 32/16 APA RATED, EXPOSURE 1. BLOCKING IS REQUIRED AT EDGES AT ALL EXTERIOR WALLS, REFER TO SHEAR WALL SCHEDULE FOR PANEL EDGE BLOCKING REQUIREMENTS AT SHEAR WALLS. SECURE SHEATHING TO SUPPORTS WITH 0.131"Ø NAILS WITH A MINIMUM 1 3/8" PENETRATION INTO FRAMING MEMBER. PLACE NAILS AT 6" O.C. AT EDGES AND AT 12" O.C. IN THE FIELD AT EXTERIOR WALLS. REFER TO PLANS AND SHEAR WALL SCHEDULE FOR ADDITIONAL NAIL SPACING AND SIZE REQUIREMENTS AT SHEAR WALLS.

2. MINIMUM SHEATHING SHEET SIZE SHALL BE 2'-0"x4'-0" AND TWO-SPAN MINIMUM. SHEATHING SHALL BE LAID VERTICALLY PER TYPICAL DETAILS ON SO SHEETS.

3. BLOCKING IS REQUIRED AT ALL EDGES AND SHALL MATCH WALL CAVITY DEPTH. USE 2x BLOCKING WHERE EDGE NAIL SPACING IS 4" O.C. OR GREATER. USE 3x BLOCKING WHERE EDGE NAIL SPACING IS LESS THAN 4" O.C. REFER TO TYPICAL DETAILS ON SO SHEETS FOR ADDITIONAL BLOCKING REQUIREMENTS.

4. EXTERIOR NON SHEAR WALLS SHEATHING SHALL BE 7/16" THICK, 32/16 APA RATED, EXPOSURE 1. SECURE SHEATHING TO SUPPORTS WITH 0.131"Ø NAILS WITH A MINIMUM 1 3/8" PENETRATION INTO FRAMING MEMBER. PLACE NAILS AT 6" O.C. AT EDGES AND AT 12" O.C. IN THE FIELD AT EXTERIOR WALLS.

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CONSTRUCTION DOCUMENTS

05/01/2024

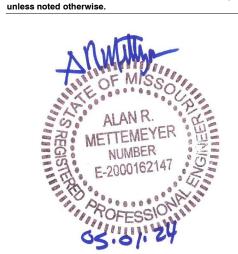
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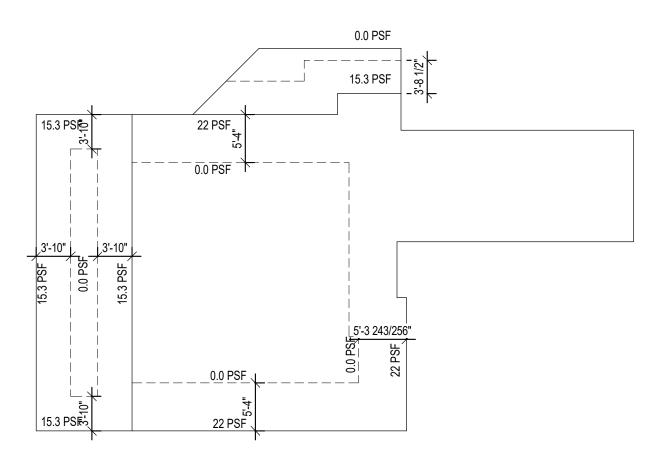
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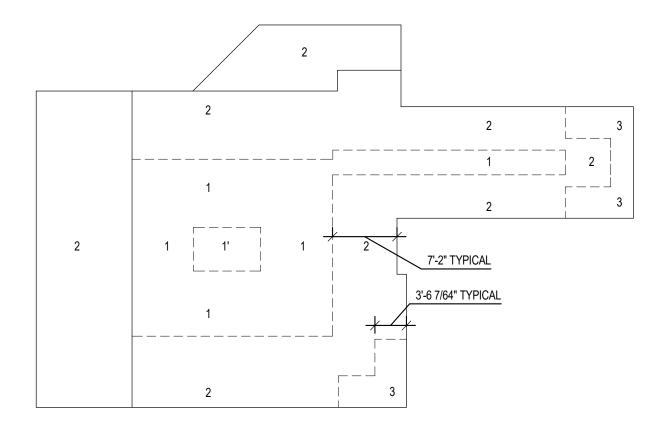


Engineer: Alan R. Mettemeyer License Number: MO# E-200016247 Project Number: 24-0121

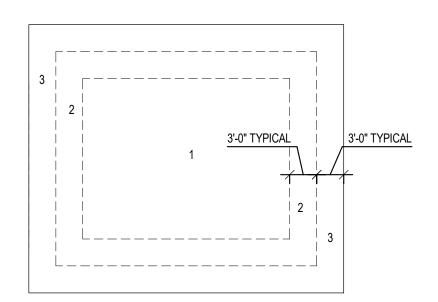
GENERAL NOTES



DRIFTING SNOW LOADING DIAGRAM



WIND GROSS UPLIFT DIAGRAM



WIND GROSS UPLIFT DIAGRAM

BASIS FOR DESIGN:	
1. BUILDING CODE: IBC 2018	
2. DEAD LOADS A. TYPICAL ROOF	20 PSF
3. LIVE LOADS A. ROOF (NO REDUCTION)	20 PSF
4. SNOW LOAD	
A. GROUND SNOW B. FLAT ROOF SNOW LOAD	P_g = 20 PSF P_f = 15.4 PSF (MAIN BUILDING) P_f = 16.8 PSF (CANOPY)
C. EXPOSURE FACTOR D. IMPORTANCE FACTOR E. THERMAL FACTOR	$C_e = 1.0$ $I_s = 1.0$ $C_t = 1.0$ (MAIN BUILDING)
F. RAIN ON SNOW G. MINIMUM SNOW	C _i = 1.2 (CANOPY) 5 PSF P _m = 20 PSF
G. IVIII VIII GIV GIV GIV	1 III - 201 OI
5. WIND LOAD A. WIND DESIGN PROCEDURE B. BASIC WIND SPEED (3-SECCULTIMATE, V = 109 MPH SERVICE, V = 84 MPH C. RISK CATEGORY = II D. EXPOSURE = "C" E. INTERNAL PRESSURE COEF	
F. WIND DESIGN PRESSURES	(COMPONENTS & CLADDING)
	Y = B ISTING SYSTEM: LIGHT FRAMED WOOD 3) AND STEEL ORDINARY CANTILEVER
	KIPS (CANOPY) COEFFICIENT R = 6.5 (MAIN BUILDING)
	R = 1.25 (CANOPY) ICIENT Cs = 0.016 (MAIN BUILDING)
K WWW. ASIS BEOUGHINE HE	Cs = 0.085 (CANOPY)

ROOF GROSS UPLIFT - MAIN BUILDING				
AREA ROOF UPLIFT ZONES				
ZONE 1	ZONE 1'	ZONE 2	ZONE 3	
6.3 / -24.8	6.3 / -24.8	14.2 / -32.7	14.2 / -32.7	
5.9 / -23.2	5.9 / -23.2	13.6 / -30.6	13.6 / -30.6	
5.4 / -21.0	5.4 / -21.0	12.8 / -27.8	12.8 / -27.8	
5.0 / -19.4	5.0 / -19.4	12.1 / -25.7	12.1 / -25.7	
	ZONE 1 6.3 / -24.8 5.9 / -23.2 5.4 / -21.0	ROOF UPL ZONE 1 6.3 / -24.8 6.3 / -24.8 5.9 / -23.2 5.4 / -21.0 ROOF UPL 20NE 1' 6.3 / -24.8 5.9 / -23.2 5.4 / -21.0	ROOF UPLIFT ZONES ZONE 1 ZONE 1' ZONE 2 6.3 / -24.8 6.3 / -24.8 14.2 / -32.7 5.9 / -23.2 5.9 / -23.2 13.6 / -30.6 5.4 / -21.0 5.4 / -21.0 12.8 / -27.8	

K. ANALYSIS PROCEDURE USED = EQUIV. LATERAL FORCE PROCEDURE

ROOF GROSS UPLIFT - CANOPY				
ROOF UPLIFT ZONES				
ZONE 1	ZONE 2	ZONE 3		
14.8/ -25.6	22.1 / -39.0	29.5 / -51.2		
14.8/ -25.6	22.1 / -39.0	22.1 / -39.0		
14.8/ -25.6	14.8 / -25.6	14.8 / -25.6		
	ZONE 1 14.8/ -25.6 14.8/ -25.6	ROOF UPL ZONE 1 ZONE 2 14.8/ -25.6 22.1 / -39.0 14.8/ -25.6 22.1 / -39.0		

WALL AND PARAPET PRESSURES				
AREA WALLS PARAPETS			PETS	
SUPPORT FT ²	ZONE 4	ZONE 5	ZONE 4	ZONE 5
10	14.2 / -15.4	14.2 / -19.0	14.4 / -33.1	14.4 / -33.1
20	13.6 / -14.8	13.6 / -17.7	13.7 / -31.0	13.7 / -31.0
50	12.8 / -14.0	12.8 / -16.1	12.9 / -28.1	12.9 / -28.1
100	12.1 / -13.3	12.1 / -14.8	12.3 / -26.0	12.3 / -26.0

	TYPICAL GROSS UPLIFT NOTES
1. AL	L UPLIFT VALUES ARE EXPRESSED IN PSF AT SERVICE LEVEL.
2. NE	EGATIVE VALUE DENOTES PRESSURE AWAY FROM SURFACE.
3. PC	OSITIVE VALUE DENOTES PRESSURE TOWARD SURFACE.
4. EF	FECTIVE DEAD LOAD TO RESIST UPLIFT = 15 PSF U.N.O. FOR WOOD FRAMING.
5. EF	FECTIVE DEAD LOAD TO RESIST UPLIFT = 24 PSF U.N.O. FOR STEEL FRAMING.

TMS 402 AND TMS 602 LEVEL "B" QUALITY ASSURANCE		
ТҮРЕ	CONTINUOUS SPECIAL INSPECTION	PERIOD SPECIA INSPECTI
1. MATERIAL TESTING:		
A. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT.	-	Х
B. VERIFICATION OF fm IN ACCORDANCE WITH ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	-	Х
2. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	-	Х
3. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR.	-	Х
B. CONSTRUCTION OF MORTAR JOINTS.	-	Х
C. LOCATION OF REINFORCEMENT AND CONNECTORS.	-	Х
4. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACING.	-	Х
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGE.	•	Х
C. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	-	Х
D. PROPORTIONS OF SITE-PREPARED GROUT.	-	Х
E. CONSTRUCTION OF MORTAR JOINTS.	-	Х
5. VERIFY DURING CONSTRUCTION:		1
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	Х
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	-	Х
C. WELDING OF REINFORCEMENT.	Х	-
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER OR HOT WEATHER.	-	Х
E. PLACEMENT OF GROUT.	Х	_

IBC TABLE 1705.3		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	-	Χ
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	-	Х
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	-	Х
C. INSPECT ALL OTHER WELDS.	Х	-
3. INSPECT ANCHORS CAST IN CONCRETE.	-	Х
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED	Х	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	Х
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	Х
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х	-
3. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х

IBC TABLE 1705.5		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. HIGH-LOAD DIAPHRAGMS (NAIL SPACING LESS THAN 6" O.C. AT EDGES):		
A. VERIFY STRUCTURAL PANEL SHEATHING GRADE AND THICKNESSES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
C. VERIFY THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
2. METAL-PLATE-CONNECTED WOOD TRUSSES:		
A. VERIFY THE INSTALLATION OF THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	X
B. VERIFY DURING CONSTRUCTION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	-	X
3. ATTACHMENT OF BRICK SHELF ANGLE TO WOOD:		
A. VERIFY SIZE AND SPACING OF SCREWS.	Х	-
B. VERIFY CENTERLINE OF SCREWS INTO STUDS ARE AT CENTERLINE OF 1 WIDTH OF STUD.	Х	-

STATEMENT OF SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PRIMARY BUILDING FRAME / MAIN FORCE RESISTING SYSTEM PER THE LATEST EDITION OF THE IBC.
- 2. REFER TO THE IBC FOR ADDITIONAL INFORMATION RELATED TO THESE TABLES.
- INSPECTIONS AND TESTING SHALL BE PROVIDED BY A QUALIFIED TESTING LABORATORY, RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER OF RECORD.
- REPORTS SHALL INDICATE THAT WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECT, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- 5. A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTOR PRIOR TO THE FINAL INSPECTION.

STEEL CONSTRUCTION			
IBC TABLE 1705.2			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х	
B. MANUFACTURER'S CERTIFICATE TEST REPORTS.	-	Х	
2. INSPECT OF COLD-FORMED STEEL DECK WELDING:			
A. FLOOR DECK WELDS.	-	Х	
B. ROOF DECK WELDS.	-	Х	
3. INSPECTION OF REINFORCING STEEL WELDING:			
A. VERIFICATION OF WELD ABILITY OF REINFORCING STEEL OTHER THAN A706.	-	Х	
B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	Х	-	
C. SHEAR REINFORCEMENT.	Х	-	
D. OTHER REINFORCING STEEL.	_	Х	

STRUCTURAL STEEL		
AISC 360		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	Х
2. INSPECT OF HIGH-STRENGTH BOLTING:		
A. BEARING-TYPE CONNECTIONS.	-	Х
B. SLIP-CRITICAL CONNECTIONS.	Х	-
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	-	Х
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	Х
B. MANUFACTURER'S CERTIFIED OF COMPLIANCE REQUIRED.	-	Х
5. INSPECTION OF STRUCTURAL STEEL WELDING:		
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	Х	-
B. MULTI-PASS FILLET WELDS.	Х	-
C. SINGLE-PASS FILLET WELDS > 5/16".	Х	-
D. SINGLE-PASS FILLET WELDS < 5/16".	-	Х
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:		
A. DETAILS SUCH AS BRACING AND STIFFENING.	-	Х
B. MEMBER LOCATIONS.	-	Х
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	Х

SOILS		
IBC TABLE 1705.6		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	Х
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	Х
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	Х

PROJECT INFORMATION: Andy's Frozen Custard #204

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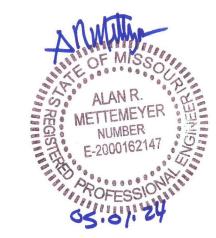
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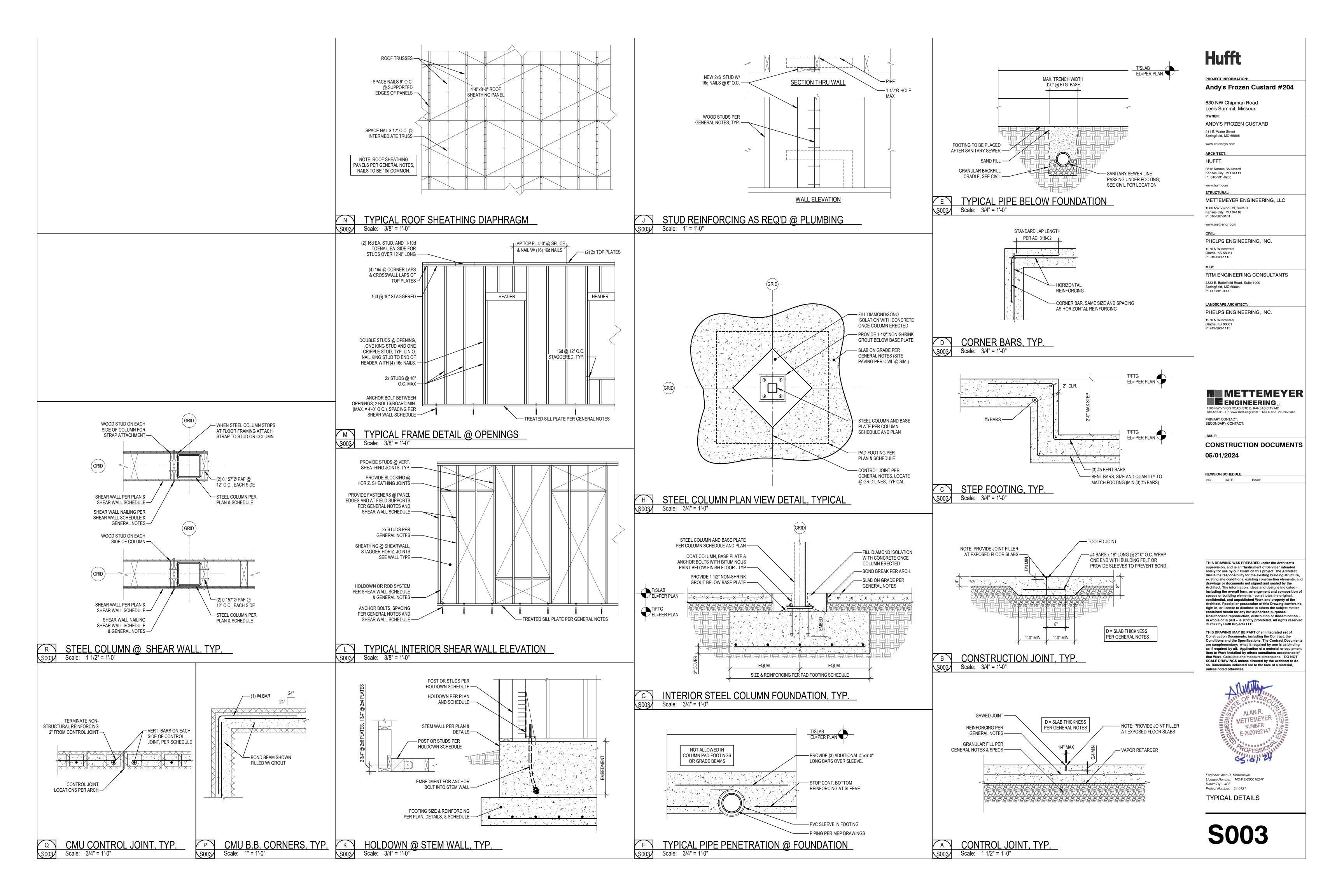
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Engineer: Alan R. Mettemeyer License Number: MO# E-200016247 Project Number: 24-0121

SPECIAL INSPECTIONS / BASIS FOR DESIGN



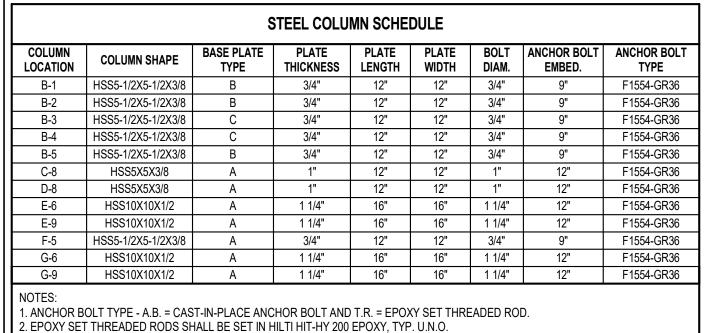


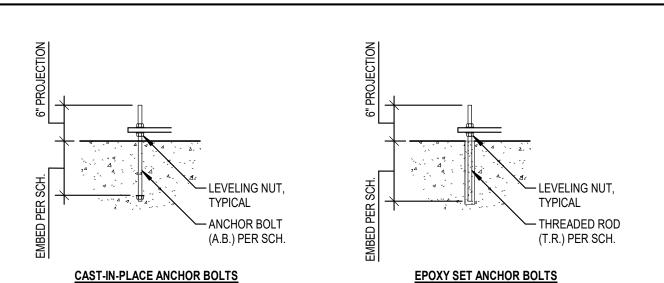
- TYPICAL CONCRETE SLAB ON GRADE SHALL BE 4" THICK WITH 6x6 W1.4xW1.4 WWR ON CHAIRS OVER 10-MIL VAPOR BARRIER.
- 2 CJ CONTROL OR CONSTRUCTION JOINT IN FLOOR SLAB, SEE A/S002 & B/S002 RESPECTIVELY. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR SPACING AND ISOLATION REQUIREMENTS.
- SEE ARCHITECTURAL AND PLUMBING SHEETS FOR WATER-PROOFING AND STORM WATER DRAINAGE REQUIREMENTS.
- 4 SEE SHEET S000 FOR GENERAL STRUCTURAL NOTES.
- 5 SLOPE SLABS TO FLOOR DRAINS.

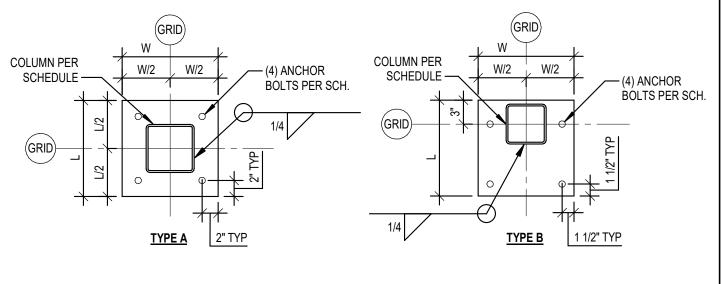
ENGINEER OF RECORD.

- 6 CENTER ALL SPREAD FOOTINGS ON CENTERLINE OF STEEL COLUMNS. PROVIDE CONCRETE DIAMOND
- ISOLATION CHAMBER AT ALL STEEL COLUMN LOCATIONS.

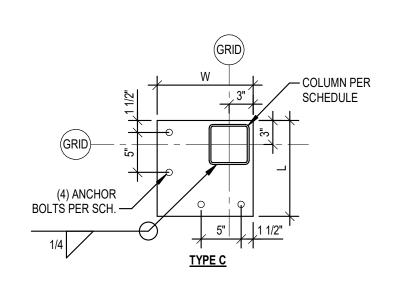
 PRIOR TO CASTING INTERIOR THICKENED SLAB SOIL COMPACTION REPORT MUST BE APPROVED BY THE
- 8 NOT ALL MECHANICAL OPENINGS AND/OR PENETRATIONS MAY BE INDICATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- THE BUILDING SHALL NOT BE LOCATED ON SITE OFF OF THE STRUCTURAL DOCUMENTS. REFER TO THE CIVIL SITE PLAN AND ARCHITECTURAL PLANS FOR BUILDING LOCATION & ORIENTATION INFORMATION.
- PROVIDE (2) #4x4'-0" RE-ENTRANT CORNER BARS @ 4" THICK SLABS AND (2) #5x4'-0" RE-ENTRANT CORNER BARS @ 5" THICK OR THICKER SLABS, TYPICAL.
- 11 SEE SHEET S300 FOR SHEAR WALL SCHEDULE

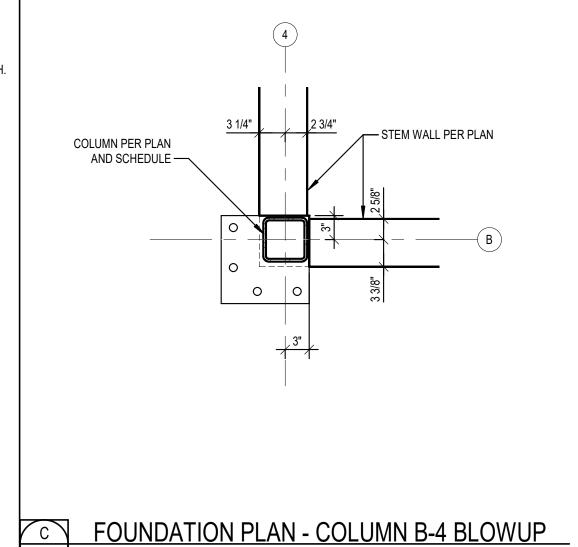




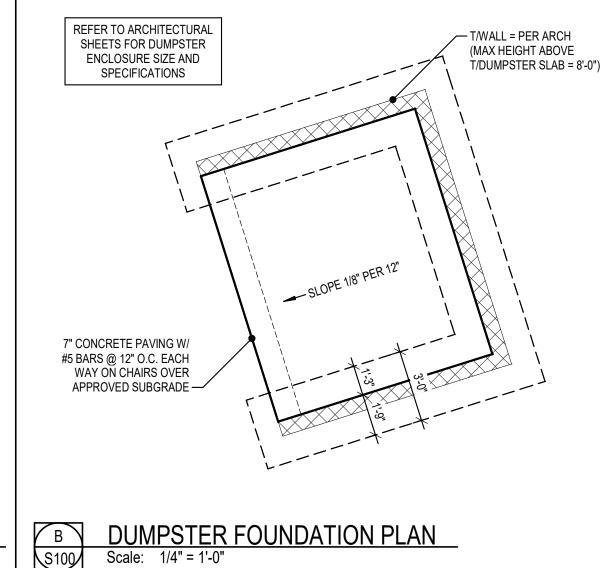


BASE PLATE TYPES
Scale: 1" = 1'-0"





Scale: 1" = 1'-0"



www.eatandys.com	
ARCHITECT:	
HUFFT	
3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200	
www.hufft.com	
STRUCTURAL:	
METTEMEYER ENGINEERING, LLC	
2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002	
CIVIL:	
OLSSON	
550 East St. Louis Street Springfield, MO 65806 P: 417-890-8802	
MEP:	
RTM ENGINEERING CONSULTANTS	
3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020	

Hufft

PROJECT INFORMATION:

630 NW Chipman Road

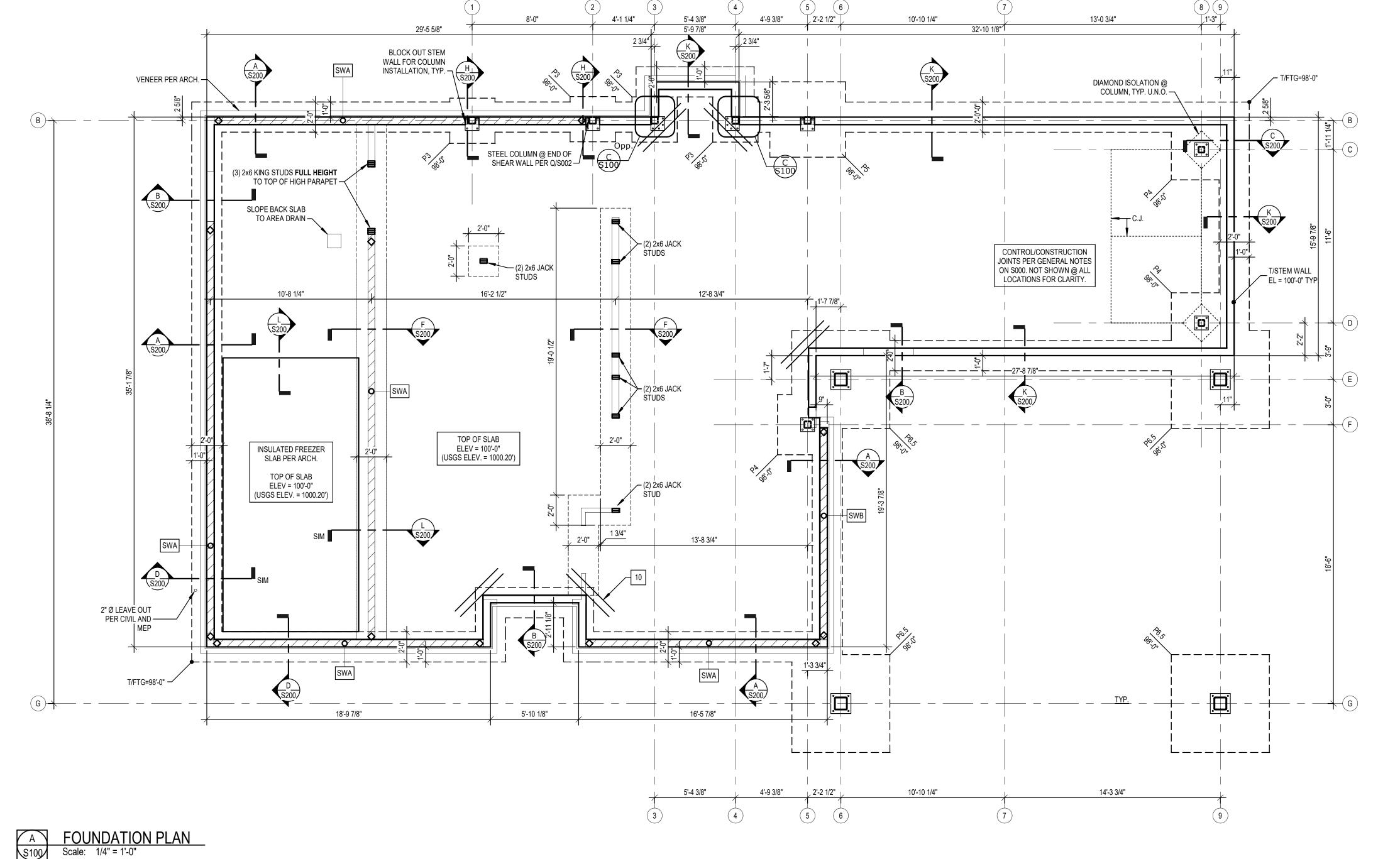
Lee's Summit, Missouri

211 E. Water Street Springfield, MO 65806

ANDY'S FROZEN CUSTARD

Andy's Frozen Custard #204

	PAD FOOTING SCHEDULE													
PAD MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT										
P3	3'-0"	3'-0"	1'-10"	(5) #5 BARS EA WAY, TOP & BOTTOM										
P4	4'-0"	4'-0"	1'-10"	(7) #5 BARS EA WAY, TOP & BOTTOM										
P5	5'-0"	5'-0"	1'-10"	(6) #6 BARS EA WAY, TOP & BOTTOM										
P6.5	6'-6"	6'-6"	1'-10"	(8) #6 BARS EA WAY, TOP & BOTTOM										



CONSTRUCTION DOCUMENTS 05/01/2024

REVISION SCHEDULE:

NO. DATE ISSUE

LANDSCAPE ARCHITECT:

550 East St. Louis Street Springfield, MO 65806 P: 417-890-8802

OLSSON

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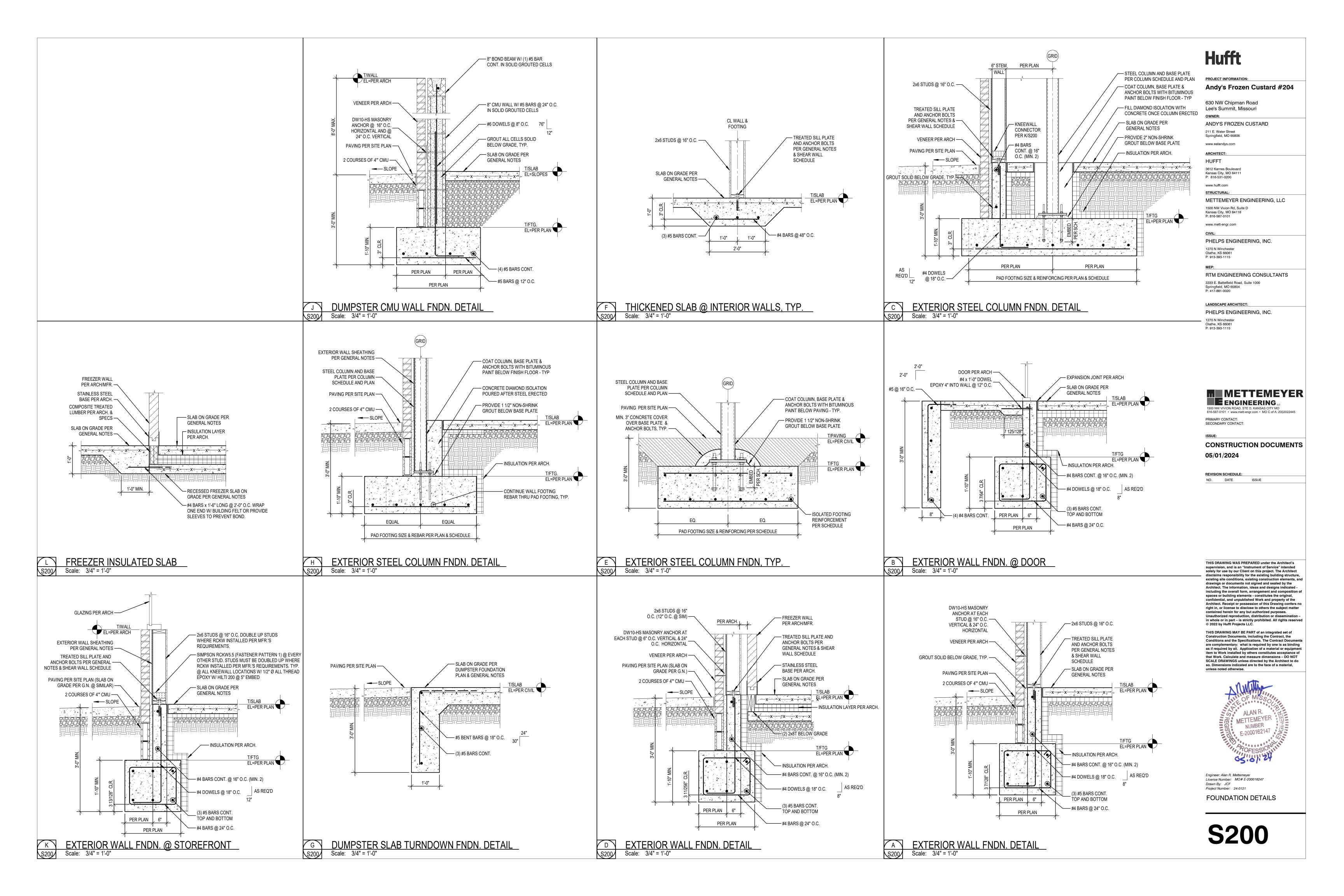
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Engineer: Alan R. Mettemeyer
License Number: IL# 081-006428
Drawn By: JCF
Project Number: 24-0121

FOUNDATION PLAN

S100



GENERAL PLAN NOTES 1 SEE SHEET S000 FOR GENERAL NOTES. 2 PROVIDE SIMPSON SJC8.25 AT EACH ROOF JOIST LOCATION. FOR SHEAR WALL FRAMING, FRAME DETAIL AT OPENINGS, AND ROOF DIAPHRAGM SEE DETAILS L, M, AND N/S002. 4 REFER TO R/S002 FOR BOND BEAM DETAIL.

5	SHEAR WALLS DENOTED W/ HATCH AND DIAMONDS ON PLANS. DIAMONDS INDICATE HOLDOWNS AT THE END OF THE SHEAR WALL. REFER TO THE PLANS FOR SHEAR WALL TYPE, SHEET S200 FOR SHEAR WALL SCHEDULE AND HOLD DOWN SCHEDULE, AND TYPICAL DETAILS SHEET S002 FOR ADDITIONAL INFORMATION.
	SHEAR WALLS = 🔯
6	SEE GENERAL NOTES FOR STEEL LINTEL REQUIREMENTS.
7	► = MOMENT CONNECTION PER G/S400 TYPICAL.

ш	
8	T/PARAPET WALLS = 116'-0".

WOOD BEAM/HEADER SCHEDULE											
BEAM TYPE	JACK STUDS	KING STUDS									
(2) 2x8	(1) 2x4	(2) 2x4									
(3) 2x10	(2) 2x6	(2) 2x6									
(3) 2x12	(2) 2x6	(2) 2x6									
NOTES: 1. BUILT UP DOUBLE STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED. 2. BUILT UP TRIPLE STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.											

FROM EACH FACE, STAGGER NAILING PATTERN.

BUILT UP POSTS W/ MORE THAN (3) STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24"	
O.C. FACE NAILED EACH PLY, STAGGER NAILING PATTERNS. WOOD BEAMS UPSET INTO TRUSS CAVITY SHALL HAVE ENOUGH BEARING STUDS BELOW BEAM	
TO EQUAL FULL WIDTH OF BEAM.	

	90 E 400S	TER END OF SKEWED BEAM & WELD ALL EGREE CORNER CONNECTION W/ 3/16" 	FILLET WELD // 16GA. BENT ONTRACTOR	HSS5X2X1/4T/BM=110'-5 1/	1	6 <u>3/4"</u>				
VENEER PER ARCH. —		AT @ COLUMN & MITER END H COLUMN FACE. WELD ALL BEAM W/ 3/16" FILLET WELDS E S400	L5x5x3/8 BRICK LINTEL — L5x5x3	HSS4X4X1// HSS2X4X3/8 T/BM=110:-4 1	T/BM=110-5 HSS5X4X3 HSS5X4X3 HSS5X4X3 HSS5X4X3	# 1		B S400	K S400	
ARING, MIN. J. H. SRICK LINTEL	(3) 2x6 KING STUDS FULL PEIGHT TO TOP OF HIGH	T/COL=115'-10 1/2"	$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$	(2) 2x12 (2) 2x12 (3) 2x12 (4) 5401 (5) 5401 (7) COL=115'-10		BEAM - COLUMN CONN. PER J/S400 T/JOIST=112'-7 3/8"	HSS10X4X5/16 T/BM=112'-4 3/8"	HSS10X4X1/4	T/COL=112'-10" T/JOIST=112'-7 1/4"	
R LINTEL BE	- T/WALL=115'-1 3/8"	B. S401	—(2) 2x6 JACK STUDS —HUCQ210-3-SDS —HANGER @ BM TO — — BM CONN., TYP.	Standard Sta	T/JOIST=112'-7 3/8" ————————————————————————————————————	2X12 JOISTS @ 24"	S400)	2x12 JOISTS @ 24"	HSS8X4X1/4 HSS8X4X1/4 T/BM=112-4 3/8" L/COP= 1175,-10.	
	TYP. DUCT PENETRATION PER MEP T/WALL=111'-1 3/8" T/JOIST=112'-0 5/8"	ROOF HATCH PER ARCH		(2) 2x6 JACK STUDS	BEAM - COLUMN CONN. PER J/S400	D S401)	HSS10X4X5/16 T/BM=112'-4 3/8"	B S400	L4X4X1/4 ANGLE CONN., SIMILAR TO H/S400 (ONE SIDE)	
SWA SWA	T/JOIST=110'-0"	- (2) 2x12 JOISTS TO		(2) 2x6 JACK		HSS6X6X1/4 T/B	REF: S301 FOR MAIN CANOPY FRAMING			
T/JOIST=110'-0"	SIM		(2) 2x8 (3) 2x10 x5x3/8 BRICK LINTEL	F S400 S400 SV	ZX-12 JOISTS (A) TIMAIL=116'-0"	T/JOIST=112'-8"				
	S400/		S401)	S400/			HSS6X6X1/4 T/BM=109'-3"			

END POST ANCHORS

(MIN. REQ'D) HOLDOWN @ DOWN @ FLOOR

FOUNDATION

HDU2-SDS2.5

HDU8-SDS2.5

5. CONNECTORS ARE SIMPSON STRONG-TIE, UNLESS NOTED OTHERWISE.

9. HOLDOWN SHALL USE ALL THREAD (A.T.) EPOXY SET W/ SIMPSON SET-3G.

STRAP/HOL-

FRAMING

NOTES:

1. BUILT UP DOUBLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED.

END POST

(2) 2x6

(2) 2x6

SWA

SWB

SHEAR WALL SCHEDULE

SHEATHING

NOMINAL

THICKNESS

LEVEL 1 WALLS

EXTERIOR 7/16" OSB 0.131"x3"

0.131"x3"

EXTERIOR 7/16" OSB

MATERIAL &

WHICH FACE

BLOCK ALL FACES OF

WALL

ONE

ONE

EDGES

YES

YES

6. REFER TO TYPICAL WOOD CONSTRUCTION DETAILS FOR ADDITIONAL REQUIREMENTS ON THE INSTALLATION OF HOLDOWNS AND STRAPS.

8. PROVIDE COMMON NAILS FOR ATTACHMENT OF WOOD SHEATHING AND COOLER NAILS FOR ATTACHMENT OF GYPSUM BOARD SHEATHING.

7. "STRAP/HOLDOWN @ END POST" REFERS TO THE CONNECTOR AT THE BOTTOM OF THE WALL FOR THE REFERENCED LEVEL.

2. BUILT UP TRIPLE STUD END POST MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED FROM EACH FACE, STAGGER NAILING PATTERN.

3. BUILT UP END POSTS W/ MORE THAN (3) STUDS MUST BE NAILED TOGETHER WITH 16d NAILS @ 24" O.C. FACE NAILED EACH PLY, STAGGER NAILING PATTERNS.
4. OSB SHEATHING SHALL BE 32/16 EXPOSURE ONE SHEATHING, UNLESS NOTED OTHERWISE.

SHEATHING ATTACHMENT

SIZE/TYPE EDGES O.C. FIELD O.C.

SPACING SPACING

SILL BOLTS:

5/8"Øx5"

TITEN HD

O.C. SPACING

SILL SCREWS:

SDWS22500DB

O.C. SPACING

REMARKS

5/8"Ø A.T. 8" INTO STEM

WALL

5/8"Ø A.T. 8" INTO STEM

WALL

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chipman Road Lee's Summit, Missouri

OWNER: ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806 www.eatandys.com

HUFFT 3612 Karnes Boulevard

ARCHITECT:

Kansas City, MO 64111 P: 816-531-0200

www.hufft.com

STRUCTURAL: METTEMEYER ENGINEERING, LLC 2225 W. Chesterfield Blvd., Suite 300 Springfield, MO 65807 P: 417-890-8002

CIVIL:

OLSSON 550 East St. Louis Street Springfield, MO 65806 P: 417-890-8802

RTM ENGINEERING CONSULTANTS 3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT: OLSSON 550 East St. Louis Street Springfield, MO 65806 P: 417-890-8802

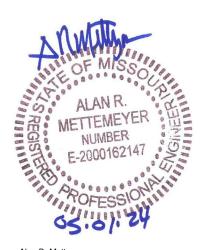
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE: NO. DATE ISSUE

05/01/2024

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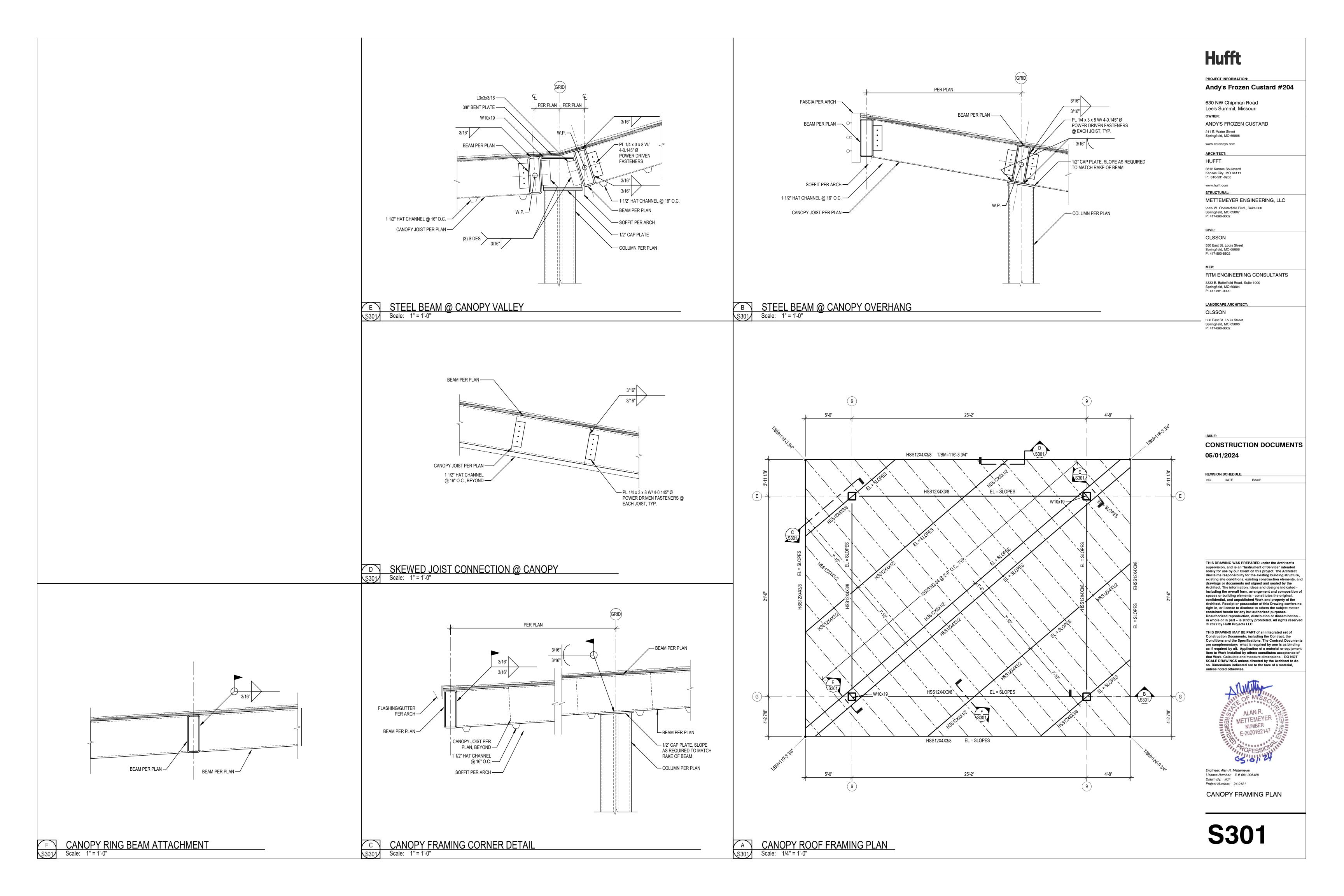
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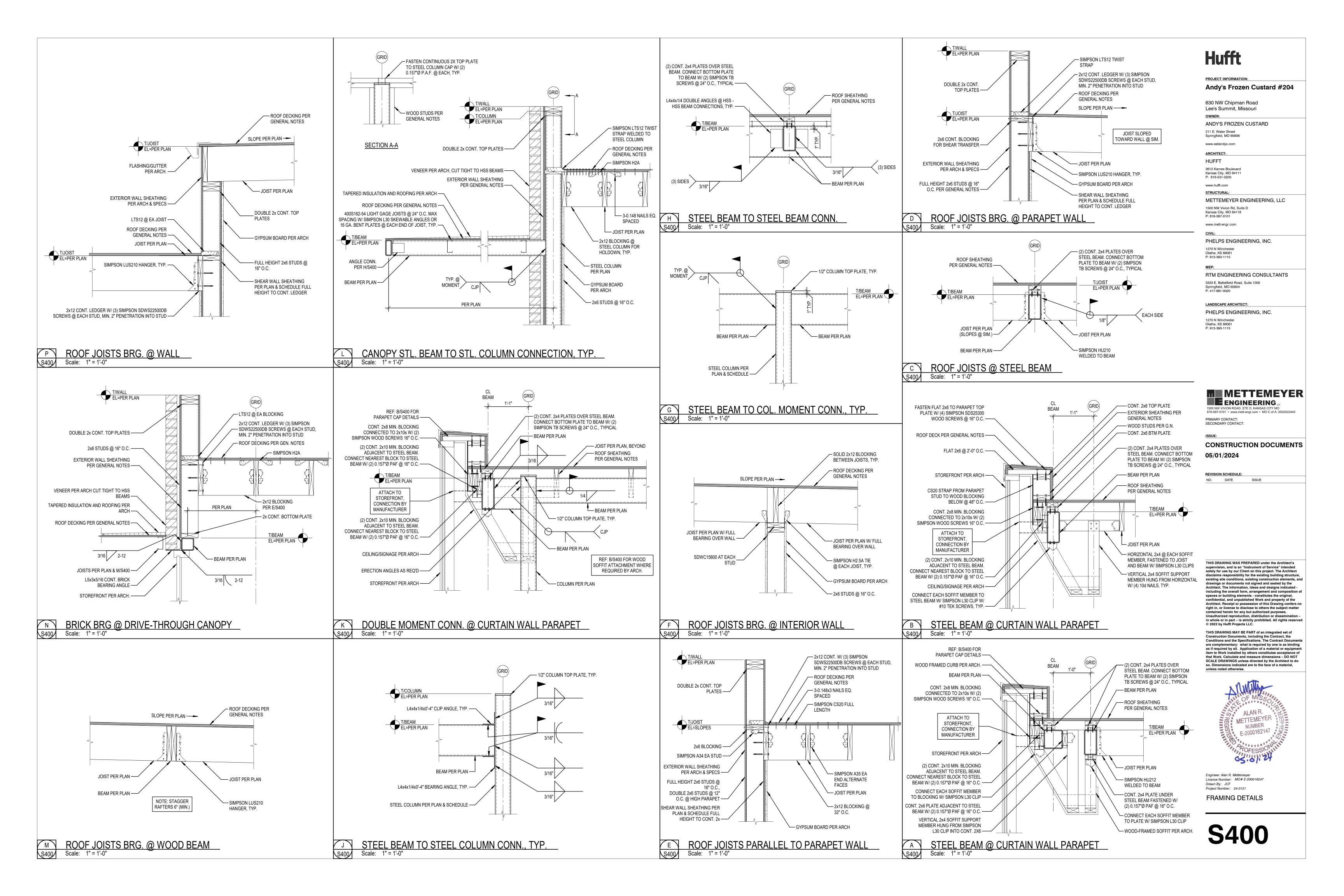


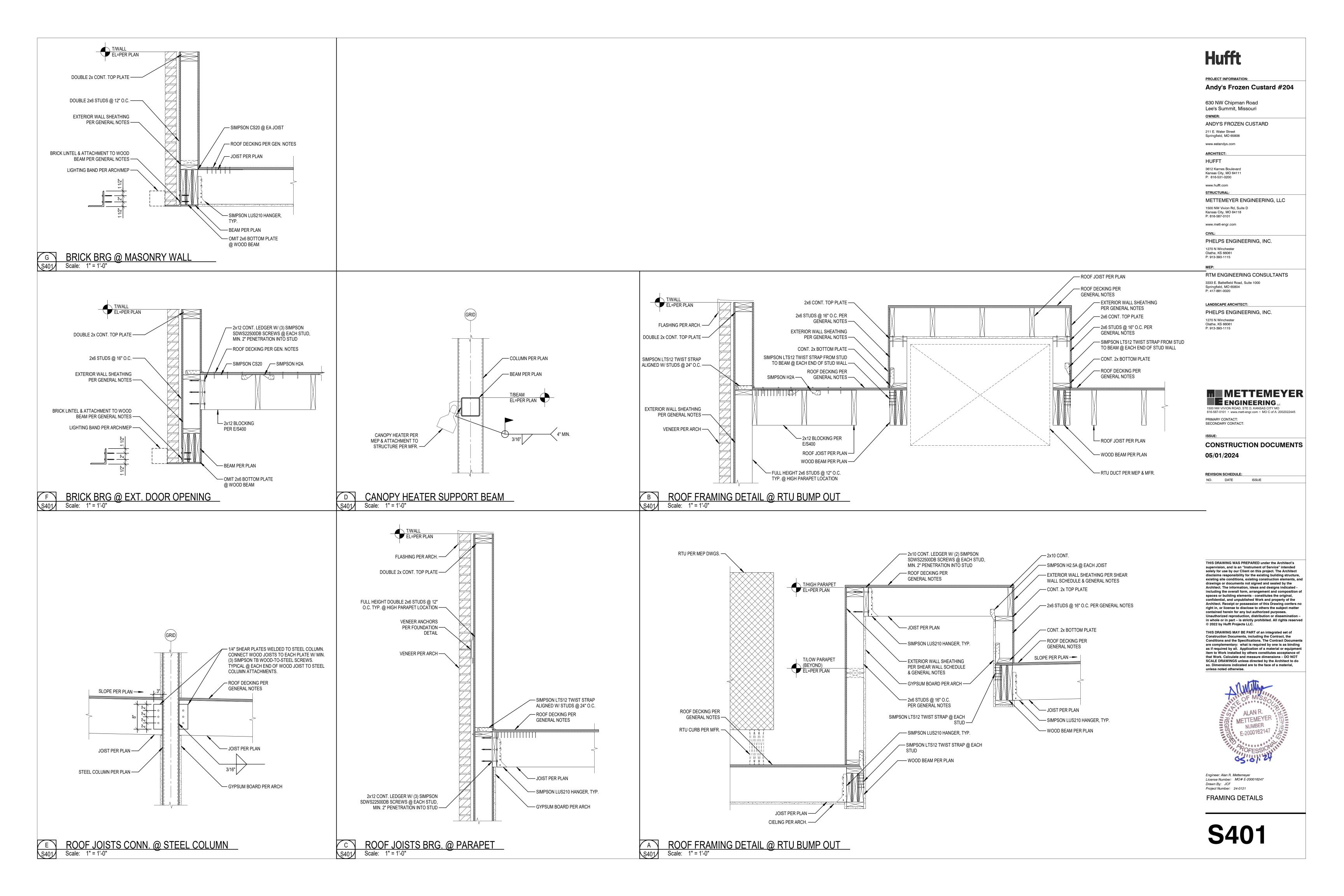
Engineer: Alan R. Mettemeyer License Number: IL# 081-006428 Project Number: 24-0121

ROOF FRAMING PLAN

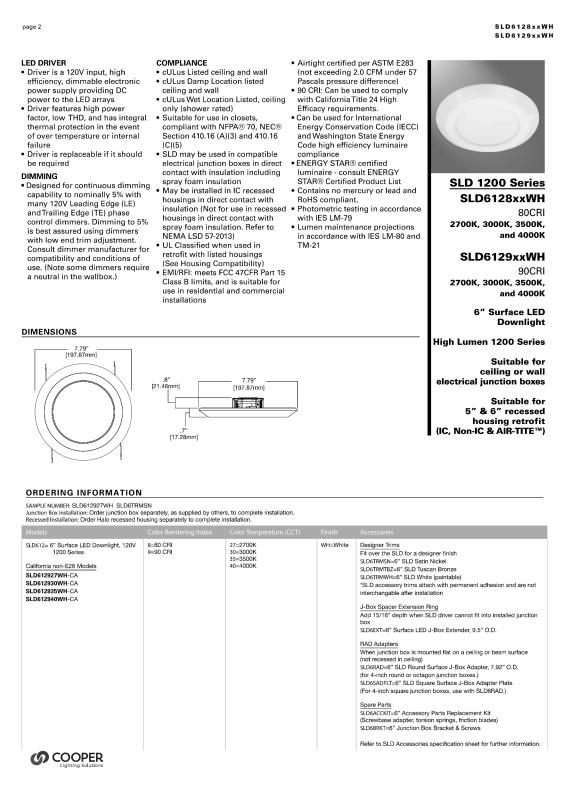
A ROOF FRAMING PLAN
S300 Scale: 1/4" = 1'-0"



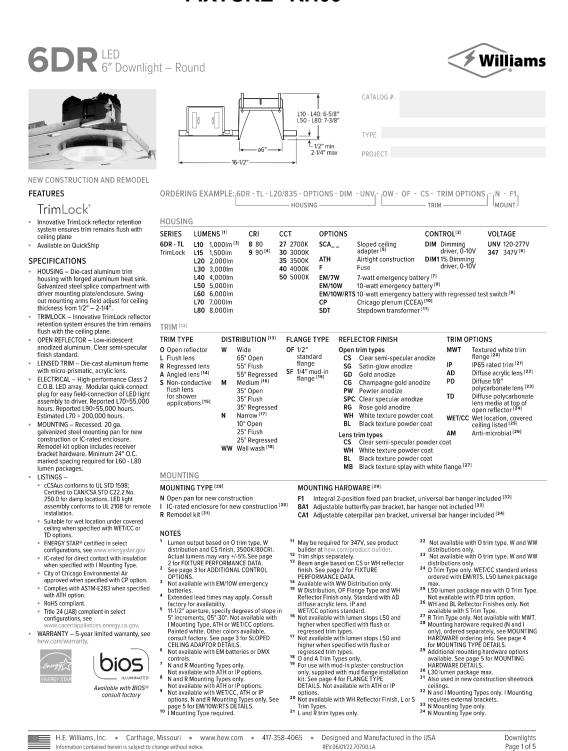




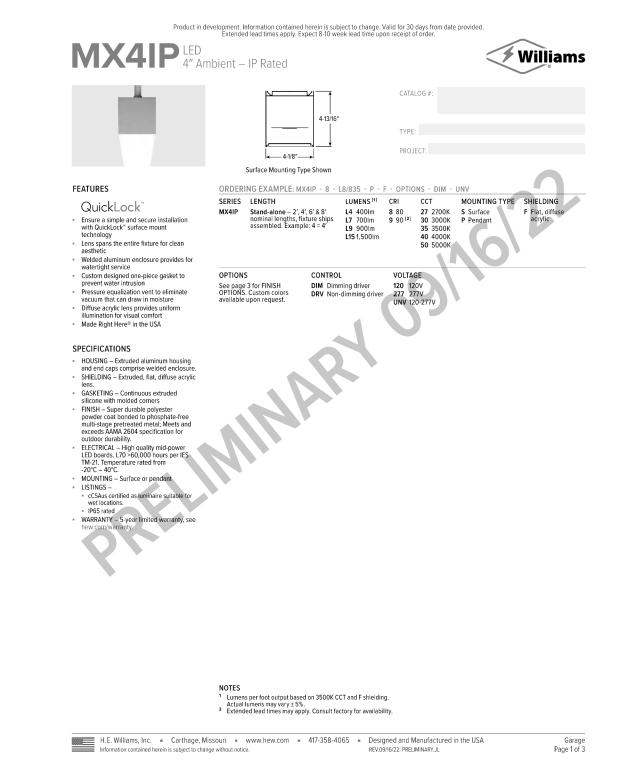
FIXTURE "RH10"



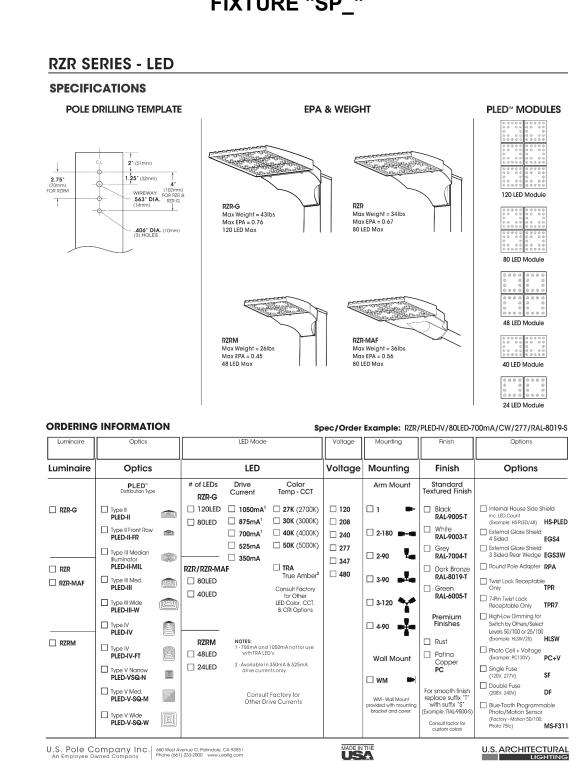
FIXTURE "RH09"

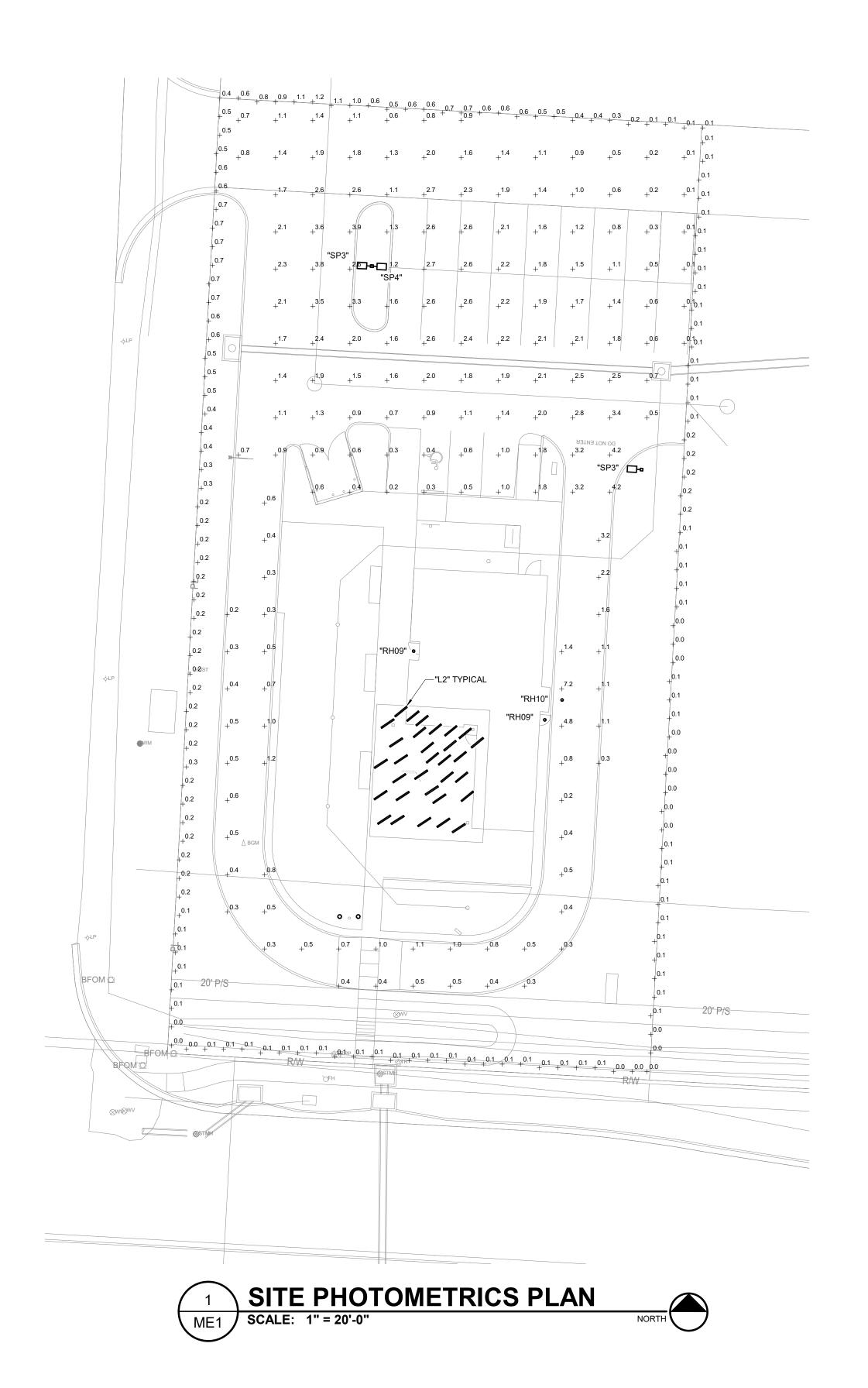


FIXTURE "L1"



FIXTURE "SP_"





Hufft

PROJECT INFORMATION: **Andy's Frozen Custard #204**

(630 NW Chapman Rd Lee's Summit, MO 64806 OWNER ANDY'S FROZEN CUSTARD

211 E. Water Street www.eatandys.com

ARCHITECT: HUFFT

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

www.hufft.com STRUCTURAL: METTEMEYER ENGINEERING,

LLC 2101W. Chesterfield Blvd., Suite B105 Springfield, MO 65807 P: 417-890-8002

PHELPS ENGINEERING INC

1270 N Winchester St #5878 Olathe, KS 66061 P: 913-393-1155

RTM ENGINEERING CONSULTANTS

3333 E. Battelfield Road, Suite 1000 Springfield, MO 65804 P: 417-881-0020

LANDSCAPE ARCHITECT:

PHELPS ENGINEERING INC

1270 N Winchester St #5878 Olathe, KS 66061 P: 913-393-1155

100% CDs

REVISION SCHEDULE:

NO. DATE

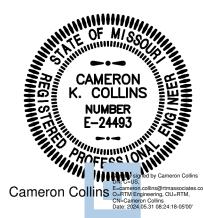
05-02-2024

05-30-2024 AD 01

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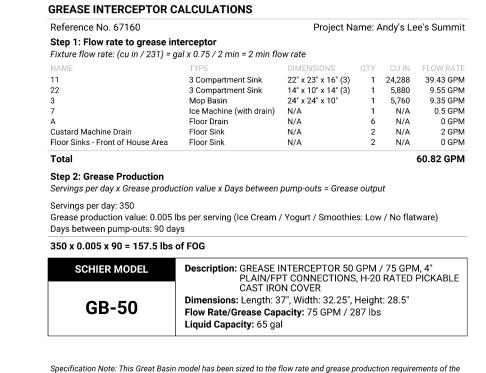


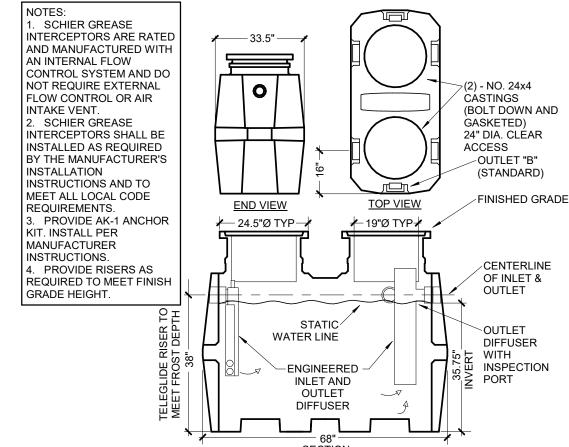
Architect: Matthew Hufft License Number: MO# Drawn Author **₽**yöject Number: 736

SITE PHOTOMETRIC PLAN

ME1







GREASE INTERCEPTOR DETAIL

ME2 SCALE: NOT TO SCALE

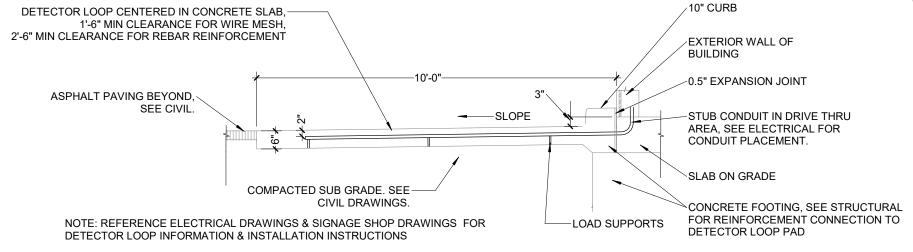
ROUTE THRU

1. WHERE CROSSING application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the OTHER UTILITIES, MAINTAIN specifying engineer and the authority having jurisdiction. 12" CLEARANCE. Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin 2. TRENCH DEPTHS SHALL COMPLY WITH LOCAL TRENCH WIDTH ELECTRIC AND TELEPHONE / AS REQUIRED. UTILITY COMPANY CONSTRUCTION STANDARDS. /DETECTABLE / WARNING TAPE 24" MINIMUM FOR (0-600V) ELECTRIC SELECTED BACKFILL -SERVICE AND CLEAN GRAVEL UNDER TELEPHONE SERVICE PAVEMENT/CONCRETE 48" MINIMUM FOR CLEAN SAND OR SOIL. GREATER THAN 600V COMPACTED 95% PROCTOR DENSITY -ELECTRICAL CONDUIT(S). REFER TO ELECTRICAL PLAN FOR QTY. 2" MINIMUM BETWEEN CONDUITS

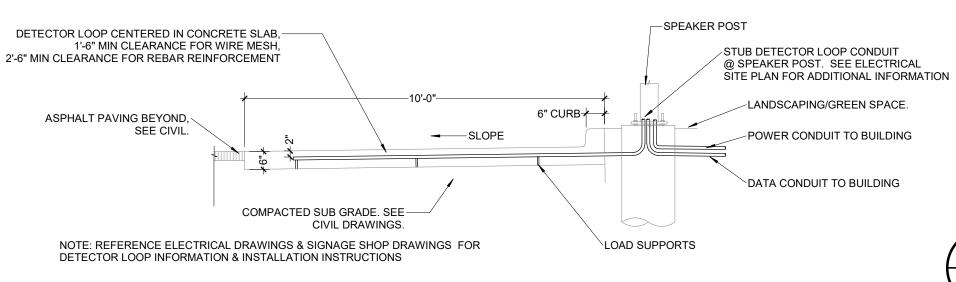
UNDERGROUND UTILITY 5 ELECTRICAL CONDUITS

SCALE: NOT TO SCALE

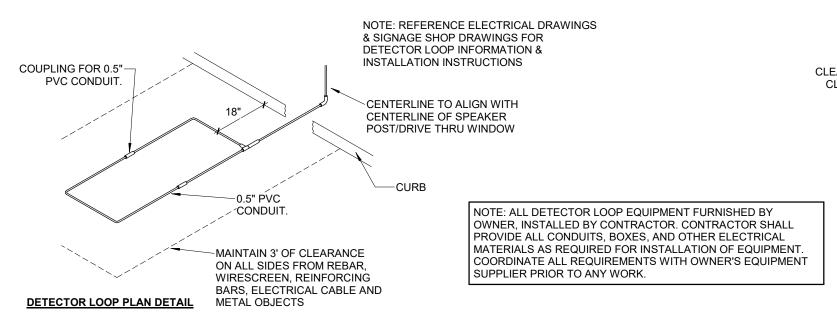
ME2



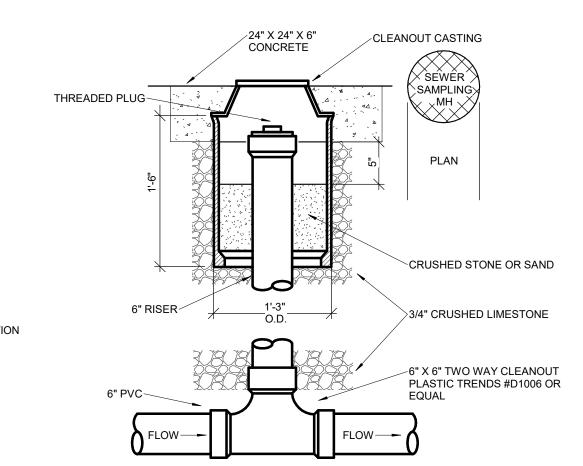
SECTION @ DETECTOR LOOP IN CONCRETE PAD AT THE DRIVE THRU WINDOW



SECTION @ DETECTOR LOOP IN CONCRETE PAD AT THE MENU BOARD

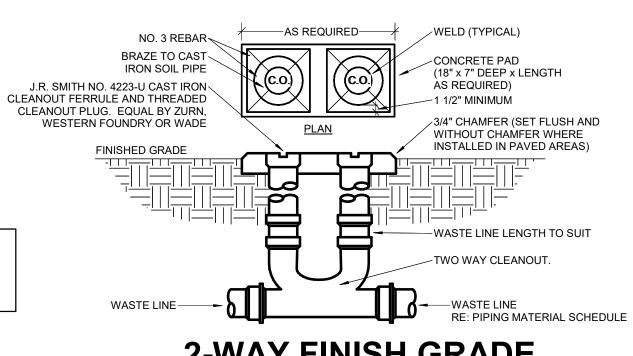






SAMPLING MANHOLE DETAIL

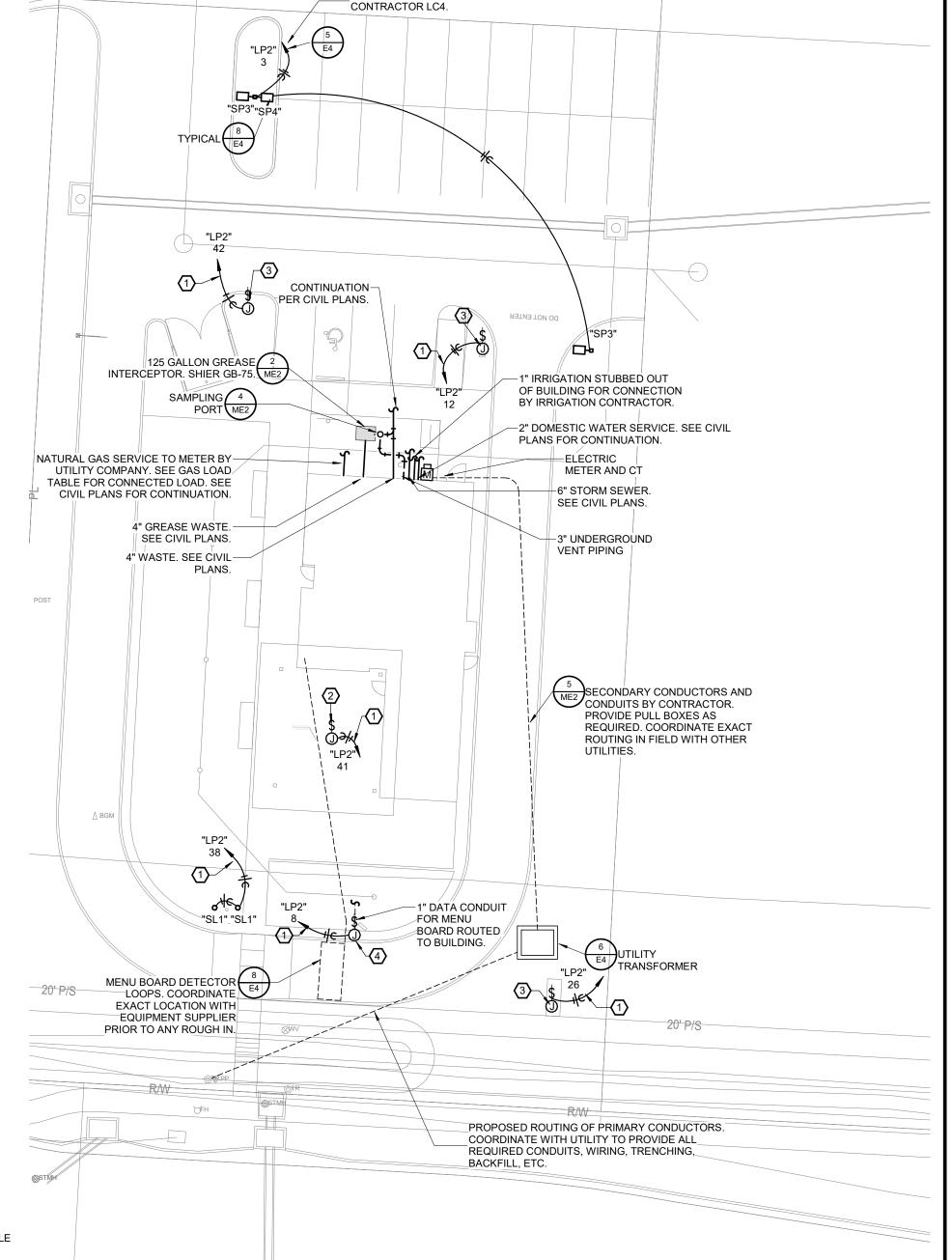
SCALE: NOT TO SCALE



2-WAY FINISH GRADE

3 CLEANOUT DETAIL

ME2 SCALE: NOT TO SCALE



PLAN HEX NOTES:

- ROUTE THRU TIME CLOCK CONTROLLED LIGHTING CONTACTOR
- PROVIDE STUB UP FROM BELOW GRADE FOR DOUBLE SIDED MENU BOARD. COORDINATE ALL ROUGH IN REQUIREMENTS AND LOCATION WITH EQUIPMENT SUPPLIER.

WEATHERPROOF DISCONNECTING MEANS.

- PROVIDE STUB-UP AND CIRCUITING FOR INTERNALLY LIT DIRECTIONAL SIGNAGE THROUGH SIGNAGE FOOTING. COORDINATE EXACT STUB-UP LOCATION WITH SIGNAGE SUPPLIER AND FOOTING CONSTRUCTION. PROVIDE
- 4 PROVIDE STUB-UP AND CIRCUITING FOR MENU BOARD FOOTING CLOSEST TO BUILDING COORDINATE EXACT STUB UP AND ALL ROUGH IN REQUIREMENTS WITH EQUIPMENT SUPPLIER AND WITH FOOTING CONSTRUCTION. PROVIDE WEATHERPROOF DISCONNECTING MEANS.

GENERAL NOTES:

- ALL EXTERIOR J-BOXES SHALL BE WEATHERPROOF.

 COORDINATE ALL GAS, WATER, ELECTRICAL, AND SEWER SERVICES WITH CIVIL ENGINEERING PLANS. INCLUDE ALL Ka
- COORDINATE ALL GAS, WATER, ELECTRICAL, AND SEWER SERVICES WITH CIVIL ENGINEERING PLANS. INCLUDE ALL FEES, COSTS, AND CHARGES INCURRED FROM THE UTILITY COMPANY IN THE BASE BID. ARRANGE FOR ALL SERVICES TO THE BUILDING.
- FOR ALL MEP QUESTIONS, CONTACT RTM ENGINEERING CONSULTANTS 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

Hufft

PROJECT INFORMATION:

Andy's Frozen Custard #204

630 NW Chapman Rd Lee's Summit, MO 64806

ANDY'S FROZEN CUSTARD 211 E. Water Street Springfield, MO 65806

ARCHITECT:
HUFFT

www.eatandys.com

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STRUCTURAL:

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210 W. Chesterfield Blvd., Suite B105 Springfield, MO 65807 P: 417-890-8002

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LANDSCAPE ARCHITECT:
PHELPS ENGINEERING INC

1270 N Winchester St #5878

1270 N Winchester St #5878 Olathe, KS 66061 P: 913-393-1155

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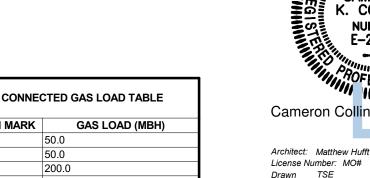
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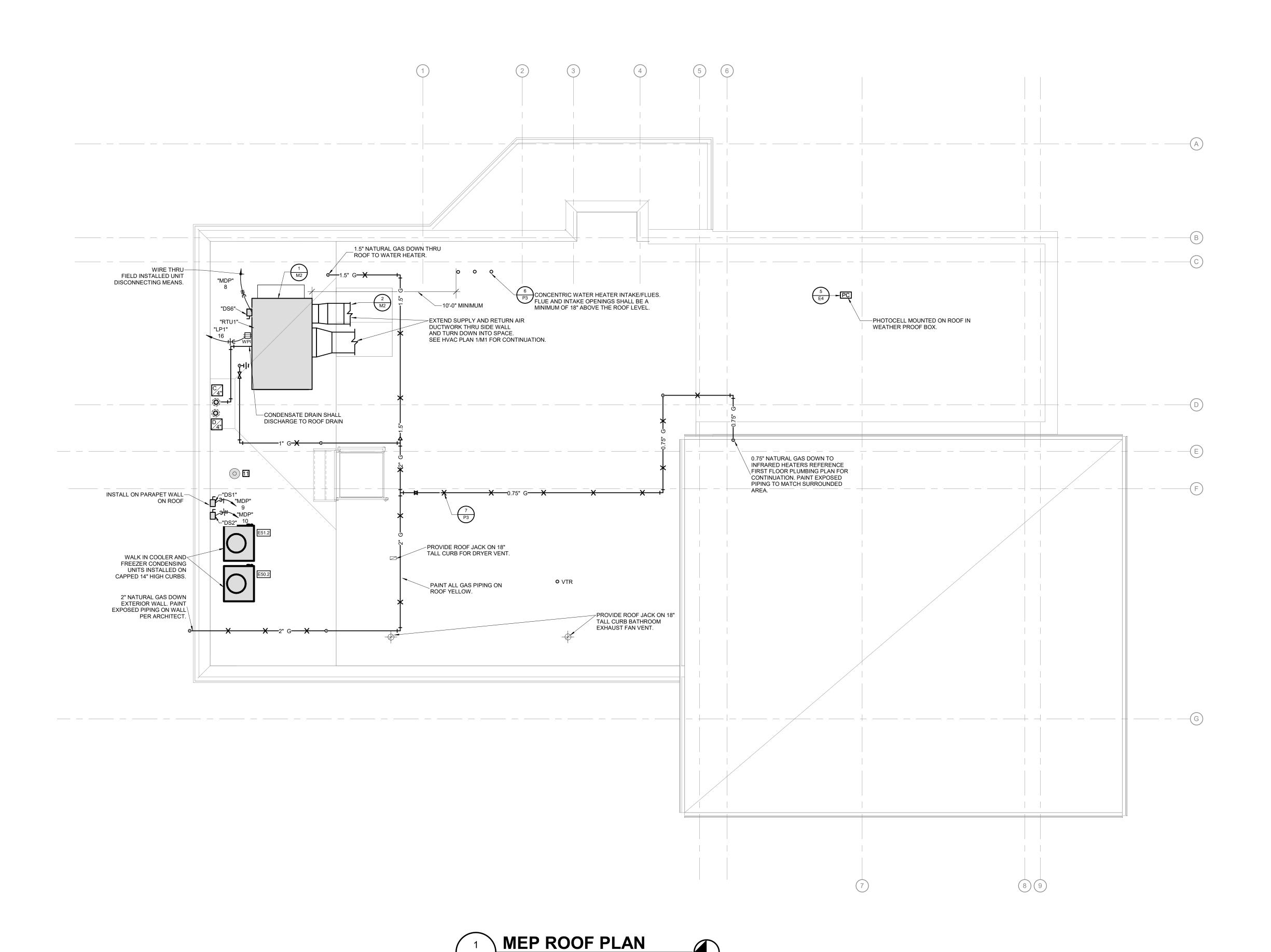


OTAL GAS

897.0



ME2



Hufft

Andy's Frozen Custard #204

630 NW Chapman Rd
Lee's Summit, MO 64806
OWNER:
ANDY'S FROZEN CUSTARD

211 E. Water Street Springfield, MO 65806

ARCHITECT:
HUFFT

3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

www.eatandys.com

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METTEMEYER ENGINEERING, 100 W. Chesterfield Blvd., Suite B105 Springfield, MO 65807 P: 417-890-8002

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1270 N Winchester St #5878 Olathe, KS 66061 P: 913-393-1155

100% CDs 05-02-2024

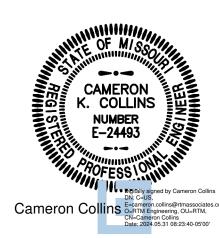
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NO. DATE ISSUE

1 05-30-2024 AD 01

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Architect: Matthew Hufft License Number: MO# Drawn Author **₱y**öject Number: 736

MEP ROOF PLAN

ME3

ELECTRICAL

- 1 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.
- 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 2017 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO.
- 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.
- 5 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 BE 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:

THREE WAY HUBBELL 1223
SINGLE POLE HUBBELL 1221

- 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 PLANE.

 COMPONIENTS
- 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 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.
- 24 ALL WIRING SHALL BE IN CONDUIT AND SHALL BE CONCEALED.
- 25 ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH APPROPRIATE LAMPING.
- 26 ALL ELECTRICAL EQUIPMENT INSTALLED IN AN EXTERIOR LOCATION SHALL BE PROVIDE WITH A NEMA 3R RATED ENCLOSURE.
- 27 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 CURRENT RATINGS AS SHOWN ON THE PANEL SCHEDULE. BRANCH CIRCUIT BREAKERS SHALL BE SQUARE "D" FA, KA, LA, MA, NH, PA AND/OR PC ONE, WO 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.

ELECTRICAL

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 BRÈAKER, IF 1000-AMPS OR LARGER. EACH UNIT SHALL CONSIST OF A COORDINATED GROUND SENSOR (CT) WITH NTEGRAL 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 SECOND RELAY SHALL PROVIDE TWO INDEPENDENT OUTPUT CONTACTS FACH 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 NADVERTENTLY LEFT IN AN INACTIVE OR AFF STATE. GROUND SENSOR SHALI 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

EQUIVALENT MANUFACTURER'S SHALL BE SQUARE "D", GENERAL ELECTRIC, ITF/SIEMENS CUTI FR-HAMMER OR WESTINGHOUSE

- 28 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.
- 29 VOICE AND DATA CABLE SYSTEMS TO BE PROVIDED AND INSTALLED BY OWNER
- 30 SUBMIT A MINIMUM OF SIX (6) COPIES OF SHOP DRAWINGS ON ALL FIXTURES AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- 31 CONTACT THE VENDOR FOR THE DRIVE THRU LOOP AND TIMER AND INCLUDE ALL VENDOR COSTS ASSOCIATED WITH THIS WORK IN BASE BID. COORDINATE ALL RELATED WORK WITH VENDOR. CONTACT INFORMATION:

JOE DOBBINS CSI OF OKLAHOMA, INC, 8455 E 590 RD

CATOOSA, OK 74015 918-266-1785, EMAIL: JOE.CSI@SBCGLOBAL.NET

32 CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SHORT-CIRCUIT CALCULATIONS FOR ALL ELECTRIC EQUIPMENT INCLUDING BUT NOT LIMITED TO ELECTRICAL PANELS AND ELECTRICAL DISCONNECT SWITCHES AND FOR ALL MOTORS AS NECESSARY TO ENSURE PROPER EQUIPMENT RATINGS AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

MECHANICAL

- 1 ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2018 MECHANICAL CODE AS ADOPTED BY LEE'S SUMMIT, MO.
- 2 DUCT MATERIALS SHALL BE AS FOLLOWS:

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 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

ROUND EXHAUST DUCT: GALVANIZED SNAP-LOCK PIPE WITH TRANSVERSE

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

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.
- 5 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. THERMOSTAT SHALL HAVE AUTOMATIC SET BACK CONTROLS, 5 DEG F DEADBAND, AND SETPOINT OVERLAP RESTRICTIONS. PROGRAM THERMOSTAT TO MEET ALL 2018 IECC REQUIREMENTS.
- 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 ROOFTOP UNITS SHALL BE YORK OR TRANE.
- 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 DEFECTS.
- 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 FOLLOWS:

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.

MECHANICAL

ADJUSTED AND CALIBRATED.

- VERIFY ALL DUCTWORK IS CLEAN AND SEALED TIGHT AGAINST LEAKS.

 VERIFY THAT ALL CONTROLS, DAMPERS AND ACTUATORS ARE INSTALLED,
- 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

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

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.

PLUMBING

- 1 ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO
- 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.
- INSULATE ALL DOMESTIC COLD WATER, ROOF DRAIN, 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.

 INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING 1.25" AND LESS WITH 1" AP ARMAFLEX ELASTOMERIC INSULATION. ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING 1.5" AND
- 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. CONDENSATE DRAIN PIPING WITH 1/2" AP ARMAFLEX. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND

GREATER SHALL BE INSULATED WITH 1.5" AP ARMAFLEX ELASTOMERIC

- A SMOKE DEVELOPED RATING NO GREATER THAN 50.

 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.
- 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.

EQUIVALENT FINISHED FLOOR CLEANOUTS BY WADE, OR ZURN.

- 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, LEAD FREE, 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
- 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 CHIEF, OR J.R. SMITH.
- 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

WADE, WATTS, OR ZURN

- 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
- 20 GREASE INTERCEPTOR SHALL BE SCHIER GB-75 SEAMLESS MOLDED POLYETHYLENE TANK WITH HIGHWAY RATED ACCESS COVERS. CONTRACTOR TO BE PROVIDE ADDITIONAL RISERS, AS REQUIRED, TO INSTALL COVERS FLUSH WITH GRADE AND THE INTERCEPTOR AT THE REQUIRED INVERT. MAX GREASE CAPACITY SHALL EXCEED 1000 LBS WITH A LIQUID CAPACITY OF AT LEAST 250 GALLONS AND SOLIDS CAPACITY OF AT LEAST 100 GALLONS. FLOW RATE SHALL BE RATED FOR 100 GPM. EQUAL INTERCEPTORS BY JOSAM AND ZURN.

NATURAL GAS

PRIOR TO PROCUREMENT.

WASHER AND NUT, SCREWED ENDS.

- 1 ALL NATURAL GAS WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL FUEL GAS CODE AS ADOPTED BY THE CITY OF LEE'S SUMMIT,
- 2 CONTRACTOR SHALL ARRANGE FOR GAS SERVICE WITH TAPS, PIT AND
 METER WITH LOCAL ENERGY COMPANY. CONTRACTOR SHALL INCLUDE ALL
- FEES, COSTS AND CHARGES INCURRED BY THE UTILITY IN THE BASE BID.

 3 PAINT ALL EXTERIOR NATURAL GAS PIPING WITH ONE (1) PRIMER COAT AND TWO (2) FINISH COATS. EQUIPMENT AND MATERIALS EXPOSED TO INTERIOR

DRY ENVIRONMENT SHALL HAVE A MINIMUM OF ONE (1) PRIMER AND ONE (1)

- 4 WHERE MATERIALS OR EQUIPMENT ARE DESCRIBED BUT NOT NAMED, PROVIDE REQUIRED ITEMS OF FIRST QUALITY, ADEQUATE IN EVERY RESPECT FOR INTENDED USE. SUCH ITEMS SHALL BE SUBMITTED TO A/E FOR REVIEW
- 5 ALL NATURAL GAS VALVES ON GAS PIPING SIZED UP TO 1" SHALL BE EITHER:

 APOLLO SERIES 77C-10X-UL, BRONZE (MSS SP-110, UL-258 LISTED VGCU) FULL

PORT BALL VALVE 600 PSI-WOB, PTFE SEATS AND SEALS, CHROME-PLATE

HAYS 7400 SERIES IRON BODY GAS COCK, 175 PSI-WOG BRONZE PLUG

BALL. STEM WITH INSULATED HANDLE WITH SCREWED ENDS.

- 6 ALL NATURAL GAS VALVES 1.25" TO 2.5" SHALL BE HOMESTEAD FIG. 651, SEMI-STEEL LUBRICATED PLUG VALVE, 200 PSI-WOG, COATED PLUG, SHORT PATTERN SCREWED ENDS. PROVIDE COMPLETE WITH STANDARD PATTERN
- 7 ALL NATURAL GAS PRESSURE GAUGES SHALL BE MARCH/MARCHALTOWN WUALITY GAUGES AND SHALL HAVE A BRASS CASE WITH A CHROME PLATED FINISH. ALL NATURAL GAS PRESSURE GAUGE BOURDON TUBES SHALL BE COPPER ALLOY WITH BRASS TIP. EQUIVALENTS ARE MUELLER, ROCHESTER,
- 8 ALL NATURAL GAS PRESSURE GAUGES SHALL BE COPPER ALLOY WITH BRASS
- WITH REGARDS TO CARBON STEEL PIPE:

TAYLOR, TRERICE, WEKSLER, WEISS, OR WESTON.

PROVIDE CONTINUOUS WELD OR ELECTRIC RESISTANCE WELDED CARBON STEEL PIPE CONFORMING TO ASTM A120 OR A53, AS SCHEDULED.

PIPE JOINTS SHALL BE THREADED CONFORMING TO ANSI B2.1, BEVELED FOR WELDING, OR GROOVED FOR USE WITH VICTAULIC COUPLINGS.

10 ALL GAS LINES DOWNSTREAM OF THE METER WITH PRESSURE ABOVE 7" WC SHALL BE CLEARLY MARKED WITH A LABEL THAT READS "ELEVATED

PRESSURE". PROVIDE LABEL THAT MEETS UTILITY COMPANY STANDARDS.

PIPE BY AMCO, YOUNGSTOWN, UNITED STATES STEEL, OR EQUAL.

Huff

PROJECT INFORMATION:
Andy's Frozen Custard #204

630 NW Chapman Rd
Lee's Summit, MO 64806

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ANDY'S FROZEN CUSTARD

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05-02-2024

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DATE

05-30-2024 AD 01

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noted otherwise.



Drawn TSE
Project Number: 736

MEP SPECIFICATIONS

N/I = I

Architect: Matthew Hufft

License Number: MO#



----- FUTURE - SERVICE AS NOTED ABOVE

ELECTRICAL NOTATIONS: THESE LETTERS ADJACENT TO ANY SYMBOL WS WATER FLOW SWITCH INDICATE DEVICE BOTTOM TO BE 4" ABOVE COUNTERTOP BACKSPLASH TS VALVE TAMPER SWITCH THESE LETTERS ADJACENT TO ANY SYMBOL FAN SHUTDOWN RELAY INDICATE ISOLATED GROUND DEVICE FIRE ALARM RELAY THESE LETTERS ADJACENT TO ANY SYMBOL INDICATE SURGE SUPPRESSION DEVICE FIRE ALARM STROBE - WALL MOUNTED THESE LETTERS ADJACENT TO ANY SYMBOL FIRE ALARM STROBE - CEILING MOUNTED INDICATE TAMPER RESISTANT DEVICE MANUAL FIRE ALARM PULL STATION THESE LETTERS ADJACENT TO ANY SYMBOL FIRE ALARM BELL INDICATE WEATHER-PROOF ENCLOSURE THESE LETTERS AD IACENT TO ANY SYMBOL FIRE HORN AND STROBE - WALL MOUNTED INDICATE WEATHER-PROOF IN-USE ENCLOSURE FIRE HORN THESE LETTERS ADJACENT TO ANY SYMBOL FIRE SPEAKER - CEILING MOUNTED INDICATE EXPLOSION-PROOF ENCLOSURE FIRE SPEAKER - WALL MOUNTED DIMENSIONS ADJACENT TO ANY SYMBOL INDICATE MOUNTING HEIGHT TO CENTER OF FIRE SPEAKER AND STROBE - WALL MOUNTED INDICATES HOMERUNS WITH SAME CIRCUIT FIRE SPEAKER AND STROBE - WALL MOUNTED NUMBER TO BE WIRED TOGETHER ON SAME INSTALLATION HEIGHT OF ALL FIRE ALARM DEVICES SHALL BE CIRCUIT AS REQUIRED BY THE LATEST EDITION OF NFPA 72. COORDINATE WITH EQUIPMENT MANUFACTURER BASED ON **ABBREVIATIONS:** ACTUAL PROVIDED EQUIPMENT. ACCESS DOOR FIRE ALARM CONTROL PANEL ABOVE FINISHED FLOOR FAA FIRE ALARM ANNUNCIATOR PANE ABOVE FINISHED GRADE CO CARBON DIOXIDE SENSOR AIR HANDLING UNIT DUCT SMOKE DETECTOR CONDUIT CEILING SMOKE DETECTOR **CLEANOUT** THERMAL DETECTOR (HEAT) **CONDENSING UNIT** ELECTRIC DOOR HOLDER **CABINET UNIT HEATER** FIREMAN'S TELEPHONE OUTLET DOMESTIC COLD WATER CHILLED WATER RETURN **NURSE CALL** CHILLED WATER SUPPLY DRINKING FOUNTAIN NURSE CALL MASTER STATION DOWN NURSE CALL ANNUNCIATION PANEL EXHAUST FAN NURSE CALL SWITCH PANEL **ELECTRIC WATER COOLER** NURSE CALL ROOM STATUS CORRIDOR LIGHT WALL MOUNT FAN COIL UNIT NURSE CALL ROOM STATUS CORRIDOR LIGHT FLOOR DRAIN **CEILING MOUNT** FINISHED FLOOR CLEANOUT NURSE CALL CORRIDOR LIGHT - WALL MOUNT FINISHED GRADE CLEANOUT NURSE CALL CORRIDOR LIGHT - CEILING MOUNT FTR FIN TUBE RADIATION NURSE CALL PATIENT STATION - SINGLE CALL FINISHED WALL CLEANOUT NURSE CALL PATIENT STATION - DOUBLE CALL **GROUND WIRE** HYDRONIC HEAT PUMP NURSE CALL DUTY STATION HEAT PUMP NURSE CALL EMERGENCY STATION - PULL DOMESTIC HOT WATER NURSE CALL EMERGENCY STATION - PUSH HEATING HOT WATER RETURN N CB NURSE CALL CODE BLUE STATION HEATING HOT WATER SUPPLY **COMMUNICATIONS:** ON CENTER **TELEPHONE OUTLET - NUMBER INDICATES QTY OF CABLE AND JACK OUTLETS. WHERE RETURN AIR NO NUMBER IS INDICATED, ONE CABLE AND SUPPLY AIR JACK OUTLET IS STANDARD. **DATA / TELEPHONE COMBINATION OUTLET -**UNIT HEATER** NUMBERS INDICATES QTY OF CABLE AND UNO **UNLESS NOTED OTHERWISE** JACK OUTLETS FOR DATA/TELEPHONE. WHERE NO NUMBER IS INDICATED. TWO UNIT VENTILATOR CABLES AND JACK OUTLETS IS STANDARD **VENT** **DATA OUTLET - NUMBER INDICATES OTY OF CABLE AND JACK OUTLETS. WHERE NO VTR VENT THROUGH ROOF NUMBER IS INDICATED, ONE CABLE AND JACK OUTLET IS STANDARD. **WIRELESS ACCESS POINT. **PLAN NOTATIONS:** **TELEVISION OUTLET - WALL MOUNT

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INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER PLAN NOTE REFERENCE

NORTI

SWEEP ABOVE CEILING WITH DE-BURRED END

TELEPHONE - POWER POLE

MASTER CLOCK

MUSIC SYSTEM AMP

PAGING SYSTEM AMP

COMBINATION CLOCK SPEAKER

WALL SPEAKER

CEILING SPEAKER

COLUMN SPEAKER

LOCAL AMPLIFIER

CALL-IN STATION

CABLE TRAY

HORN TYPE SPEAKER

MICROPHONE OUTLET - WALL

REMOTE VOLUME CONTROL

MICROPHONE OUTLET - FLOOR

TELEPHONE TERMINAL CABINET ("TTC")

INTERCOM ADMINISTRATIVE CONTROL UNIT

INDICATES CONNECTION TO EXISTING SYSTEM SECTION REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER

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05-02-2024

REVISION SCHEDULE

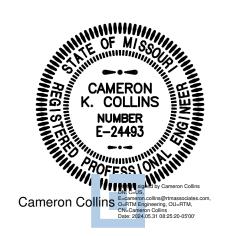
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Andy's Frozen Custard #204

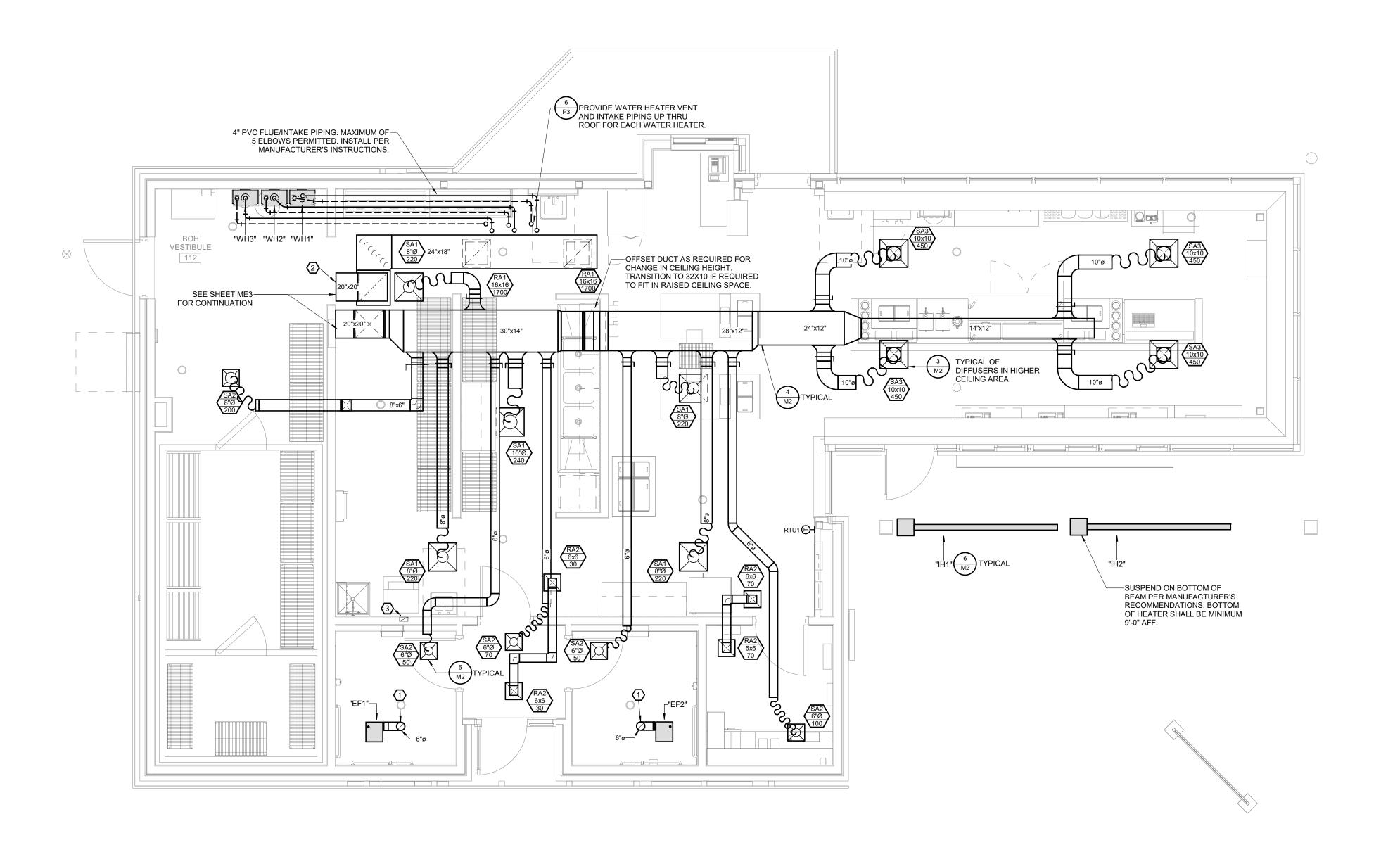
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Architect: Matthew Hufft License Number: MO# Drawn TSE **₽**Yöject Number: 736

MEP SYMBOLS LEGEND





PLAN HEX NOTES:

- 1 6" EXHAUST DUCT UP TO ROOF CAP.
- 2 SUPPLY AND RETURN DUCTS SHALL PENETRATE EXTERIOR WALL ABOVE LAY-IN CEILING.
- 3 GALVANIZED STEEL DRYER VENT UP THROUGH ROOF. TERMINATE WITH CAP/RAIN SHIELD.

GENERAL NOTES:

ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH 630 NW Chapman Rd THE 2018 MECHANICAL CODE AS ADOPTED BY LEE'S

- SUMMIT, MO. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- 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 SAME PRESSURE CLASS FOR THE ENTIRE SUPPLY DUCT SYSTEM.
- ALL METAL DUCTWORK SPECIFIED TO RECEIVE INTERIOR
 THERMAL AND ACOUSTICAL LINER IS NOT SIZED ON
 PLANAL TO INDIVIDUAL TO THE STATE OF THE PLANS TO INCLUDE THE PROPER THICKNESS OF INSULATION. ADD 1" OR 2" IN HEIGHT AND WIDTH OF DUCTWORK TO ACCOMMODATE THICKNESS OF INSULATION.
- BRANCH DUCTS SHALL BE THE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- ROUND TAKE-OFF FITTINGS FROM RECTANGULAR DUCTWORK SHALL BE MADE WITH BUCKLEY BELLMOUTH FITTINGS, OR APPROVED EQUAL.
- PROVIDE TURNING VANES IN ALL ELBOWS.
- THERMOSTATS SHALL BE SUPPLIED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, WIRING, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THERMOSTATS.
- MECHANICAL SYSTEM SHALL BE TESTED AND BALANCED PRIOR TO FINAL CITY INSPECTION. FILE COMPLETED REPORT WITH CITY PRIOR TO FINAL CITY INSPECTION.
- CLOSELY COORDINATE WITH ALL OTHER TRADES.

GENERAL NOTES:

FOR ALL HVAC QUESTIONS CONTACT RTM ENGINEERING CONSULTANTS, 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

- PROJECT INFORMATION:

Andy's Frozen Custard #204 \leftarrow

Lee's Summit, MO 64806 OWNER ANDY'S FROZEN CUSTARD

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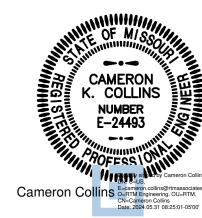
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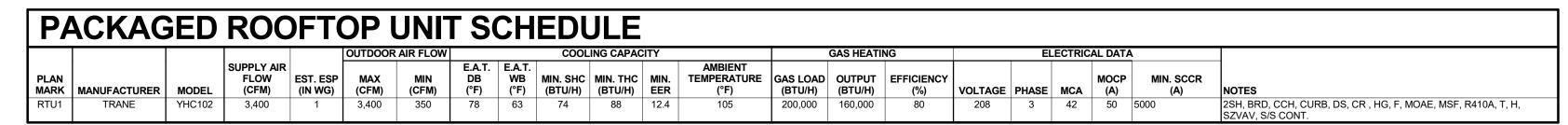
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FIRST FLOOR HVAC PLAN



GRILLE, REGISTER AND DIFFUSER SCHEDULE FRAME TYPE THROW (FT) THROW (FT) VOLUME MAXIMUM ΜΑΧΙΜυΜ ΔΡ MANUFACTURER MODEL APPLICATION DAMPER RA1 PER LAY-IN 24X24 SQUARE PERFORATED FACE WITH SQUARE DUCT CONNECTION. FEILD PAINT PER ARCHITECTURAL PLANS TITUS PAR-24 x 24 RETURN ARCHITEC¹ RA2 TITUS PAR-12 x 12 RETURN PER SURFACE 0.10 12X12 SQUARE PERFORATED FACE WITH SQUARE DUCT CONNECTION. FEILD PAINT PER ARCHITECTURAL PLANS. ARCHITECT SA1 TITUS SUPPLY LAY-IN DCA-24 x 24 PER 24x24 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION. FEILD PAINT PER ARCHITECT. ARCHITECT SA2 TITUS SUPPLY PER 0.10 12x12 SQUARE LOUVER FACE WITH ROUND DUCT CONNECTION. FEILD PAINT PER ARCHITECT. DCA-12 x 12 SURFACE ARCHITECT DCA-12 x 12 PER 0.10 2424SQUARE LOUVER FACE WITH SQUARE DUCT CONNECTION. FIELD PAINT PER ARCHITECT

F	FAN SCHEDULE													
PLAN MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	EST. ESP (IN WG)	VOLTAGE	PHASE	MOTOR (HP)	NOTES						
EF1	COOK	GC	75	0.25	120	1	0.17	DS, GBD, RC						
FF2	COOK	GC	75	0.25	120	1	0.17	DS GRD RC						

SCHEDULE LEGEND

ABBREVIATED SCHEDULE HEADINGS

CAPACITY

DRY BULB

ESTIMATED

FULL LOAD AMPS

FEET PER MINUTE

HORSEPOWER

GAS PIPING

OUTSIDE AIR

MINIMUM

GALLONS PER HOUR

GALLONS PER MINUTE

INLET STATIC PRESSURE

LEAVING AIR TEMPERATURE

MINIMUM CIRCUIT AMPACITY

HEATING REQUIREMENTS

POUNDS PER SQUARE INCH REVOLUTIONS PER MINUTE

SENSIBLE HEAT CAPACITY

TOTAL HEAT CAPACITY

POUNDS PER HOUR

TEMPERATURE

WPD WATER PRESSURE DROP

ALUMINUM FINISH

BELT DRIVE MOTOR

DIRECT DRIVE MOTOR

DISCONNECT MEANS

SPEED CONTROLLER

ALUMINUM REFLECTORS

COMBUSTION AIR KIT

STRAIGHT TUBE

CRANKCASE HEATER

DISCONNECT MEANS

ANGLED MOUNTING BRACKET

2-STAGE NATURAL GAS HEATING

BRD BAROMETRIC RELIEF DAMPER WITH HOOD

AND INSTALLED BY CONTRACTOR.

SPACE MOUNTED HUMIDISTAT.

R410A PROVIDE UNIT WITH R410 REFRIGERANT

CONDENSER HAIL GUARDS

MODULATING, HEATING ONLY THERMOSTATS WITH

INFRARED SHIELD - REFER TO PLANS FOR EXACT QUANTITY

FACTORY INSTALLED 120V CONVENIENCE RECEPTACLE

FUSED ELECTRICAL DISCONNECTING MEANS FURNISHED

PROVIDE 2" MERV 13 PLEATED FILTER WITH HOLDING

0-100% MODULATING OUTDOOR AIR ECONOMIZER WITH

S/S CONT OPTIMAL START/STOP CONTROL WITH SC+ CONTROLLER

ON THE TIME OF DAY AND UNIT ON/OFF STATUS.

7 DAY PROGRAMMABLE THERMOSTAT PER

BMCCES BASE MOUNTED CLOSED COUPLED END SUCTION

BASE MOUNTED HORIZONTAL SPLIT CASE

BAROMETRIC RELIEF AND ECONOMIZER FAULT DETECTION

SPECIFICATIONS.THERMOSTAT SHALL INDEPENDENTLY

CONTORL 2 POSITION OUTSIDE AIR INTAKE DAMPER BASED

CURB INSULATED GROUND MOUNT CURB (MINIMUM 18" HEIGHT).

CURB MOUNTED ON CAPPED 3.5" CONCRETE PAD.

BLACK FINISH

GRAVITY BACKDRAFT DAMPER
ROOF CAP TERMINATION

WET BULB

EXHAUST FAN SCHEDULE

INFRARED HEATER SCHEDULE

U TUBE

PACKAGED ROOFTOP UNIT SCHEDULE

CONTROLS

MULTI SPEED FAN

SZVAV SINGLE ZONE VAV CONTROL

VVE VERTICAL VENT EXTENSION KIT

BMES BASE MOUNTED END SUCTION

CHILLED/HOT WATER
CHILLED WATER

BMVSC BASE MOUNTED VERTICAL SPLIT CASE
C CONDENSER WATER

PUMP SCHEDULE

AB ALL BRONZE

ALL IRON

BRONZE FITTE

DCW DOMESTIC COLD WATER

DHW DOMESTIC HOT WATER
HW HEATING HOT WATER

CAK

LEAVING WATER TEMPERATURE

MAXIMUM OVERCURRENT PROTECTION

SEASONAL ENERGY EFFICIENCY RATIO

MAXIMUM NOISE CRITERIA RATING

NET PRESSURE SUCTION HEAD

NOMINAL CONNECTED GAS LOAD TO UNIT, USED TO SIZE

MINIMUM REQUIRED OUTPUT TO SATIFY SCHEDULED

EER

EST.

FPM

L.W.T.

LOAD

MOCP

CUBIC FEET PER MINUTE

EXTERNAL TO UNIT

ENTERING AIR TEMPERATURE

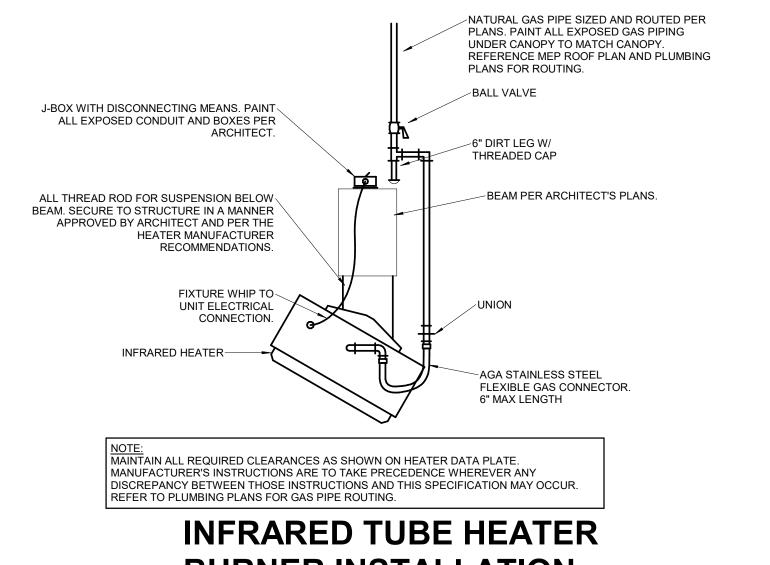
ENERGY EFFICIENCY RATIO

ENTERING WATER TEMPERATURE

GR/LB GRAINS OF MOISTURE PER POUND OF DRY AIR

E.S.P. EXTERNAL STATIC PRESSURE INCLUDES ALL WORK

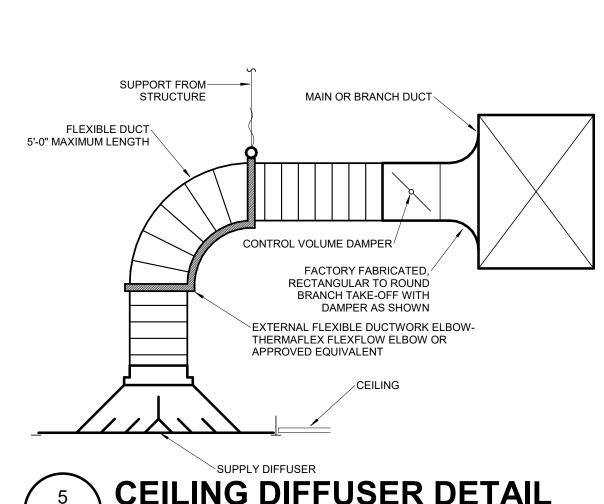
IN	INFRARED HEATER SCHEDULE												
				GAS H	HEATING	ELECTRICAL DATA							
PLAN				GAS LOAD	MIN. OUTPUT				MOCP				
MARK	MANUFACTURER	MODEL	TYPE	(BTU/H)	(BTU/H)	VOLTAGE	PHASE	MCA	(A)	NOTES			
IH1	REVERBERRAY	DSRS	GAS	50,000	40,000	120	1	1	15	MB, DS, BF			
IH2	REVERBERRAY	DSRS	GAS	50,000	40,000	120	1	1	15	MB, DS, BF			





MAIN AIR DUCT

6 DETAIL
M2 SCALE: NOT TO SCALE



EQUIVALENT RTUS BY YORK ONLY. IF ANY UNIT OTHER

CONTRACTOR MUST SUBMIT A SKETCH (DRAWN TO

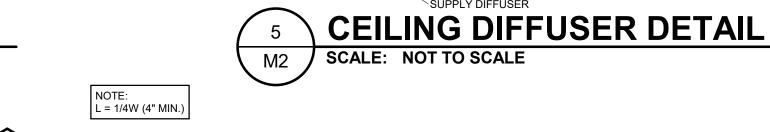
SCALE) SHOWING THE UNIT LAYOUT DUCT ROUTING

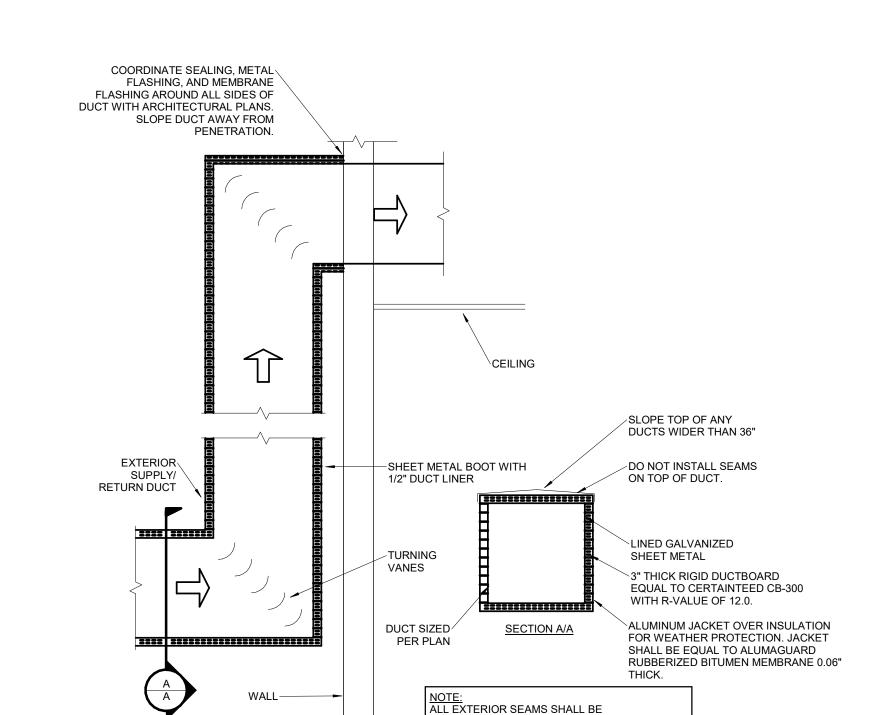
(BOTH INTEROR AND EXTERIOR), AND ALL CODE AND

SHUT-OFF VALVE

THAN THE SPECIFIED UNIT IS SUBMITTED, THE

MANUFACTURER REQUIRED CLÉARANCES





/VOLUME DAMPER

/FLEXIBLE DUCT

/CEILING

FACTORY FABRICATED,

BRANCH TAKE-OFF WITH

MAIN OR BRANCH DUCT

DAMPER AS SHOWN

RECTANGULAR TO ROUND

MAXIMUM 5'

CEILING DIFFUSER DETAIL - PLENUM

SPIN-IN TAP

LINED SHEET METAL PLENUM TO

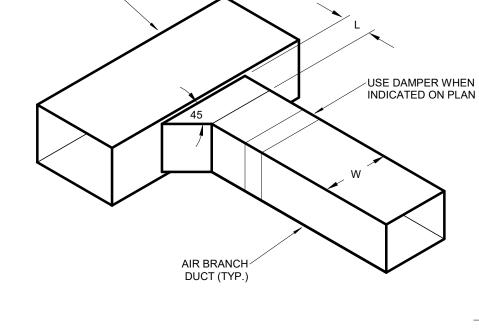
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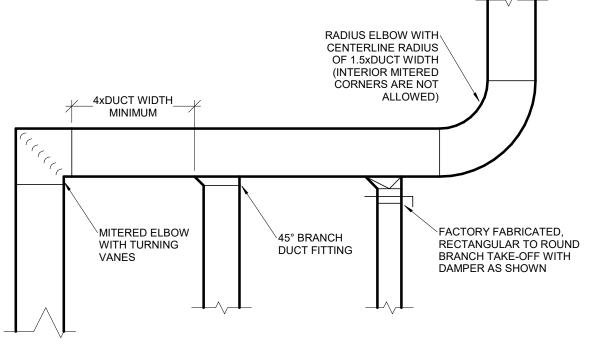
FIT DIFFUSER NECK



SEALED WITH DUCTMATE WATERPROOF JOINTS

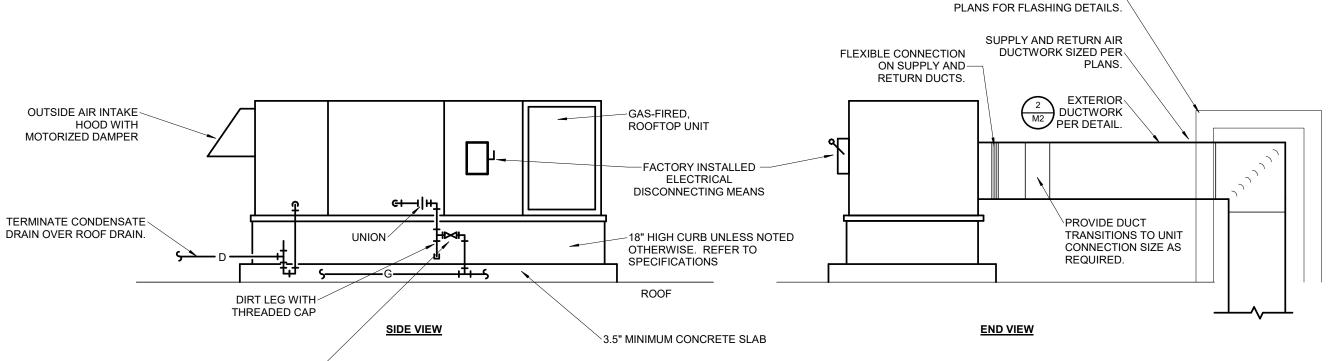
EXTERIOR WALL. REF ARCHITECT'S





DUCTWORK CONSTRUCTION DETAIL

M2 SCALE: NOT TO SCALE



1 ROOFTOP UNIT DETAIL

M2 SCALE: NOT TO SCALE

Hufft

Andy's Frozen Custard #204

630 NW Chapman Rd
Lee's Summit, MO 64806

OWNER:

ANDY'S FROZEN CUSTARD

211 E. Water Street
Springfield, MO 65806

www.eatandys.com

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RTM ENGINEERING CONSULTANTS

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LANDSCAPE ARCHITECT:
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ISSUE:

05-02-2024

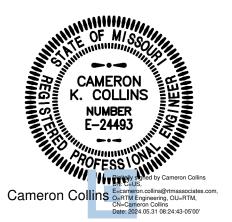
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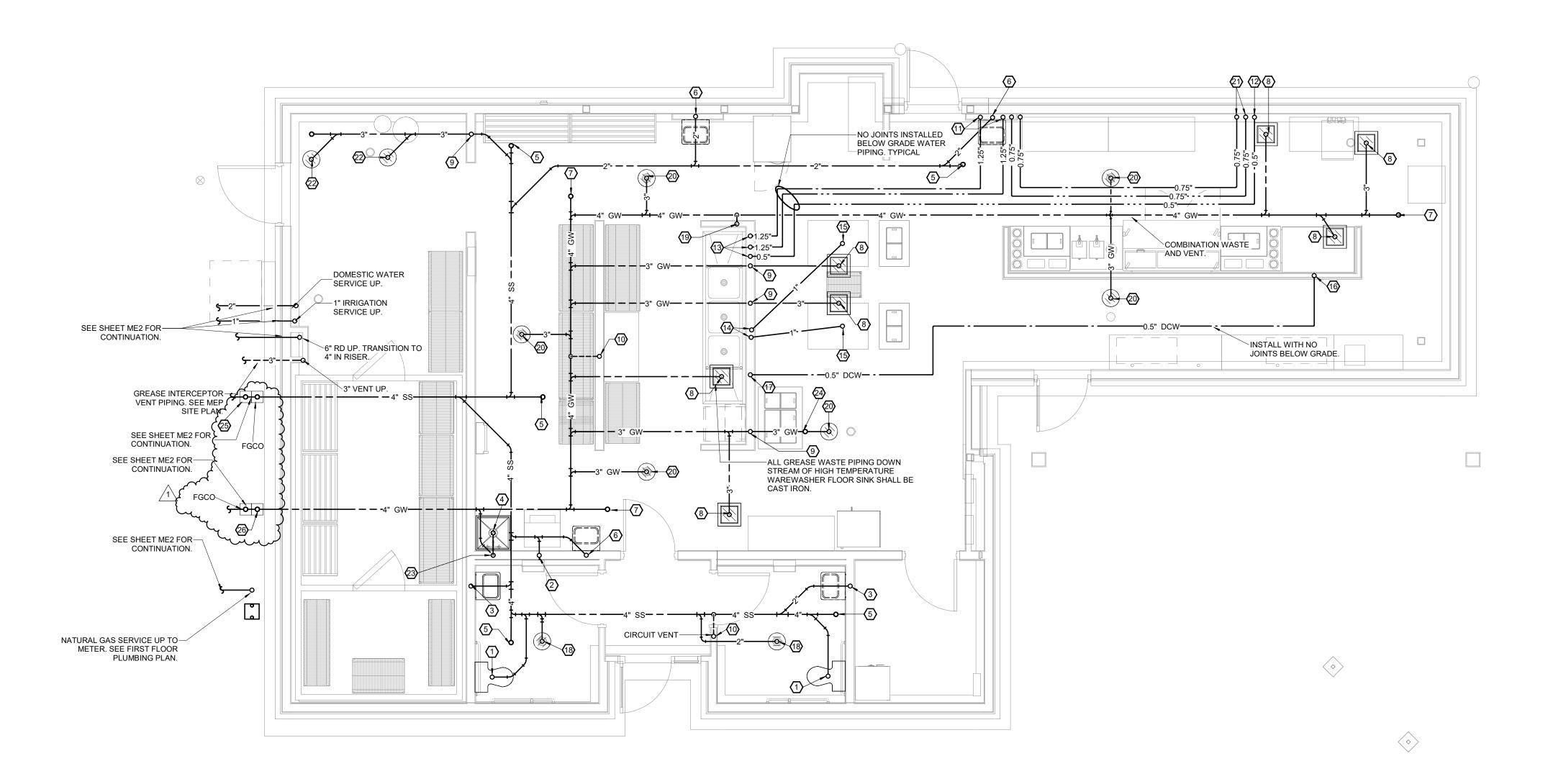


Architect: Matthew Hufft
License Number: MO#
Drawn TSE

HVAC DETAILS AND SCHEDULES

M2

₽¥öject Number: 736





PLAN HEX NOTES:

- 1 4" WASTE UP TO WATER CLOSET.
- 2 2" WASTE UP TO WASHER DRAIN BOX.
- 3 2" WASTE UP TO LAVATORY.
- 4 3" TRAPPED GREASE WASTE UP TO MOP SINK.
- 5 4" WASTE UP TO FINISH FLOOR CLEANOUT.
- 6 2" WASTE UP TO HAND SINK.
- 4" GREASE WASTE UP TO FINISH FLOOR CLEANOUT.
- 8 3" TRAPPED GREASE WASTE UP TO FLOOR SINK.
- 9 1.5" VENT UP IN WALL.
- 10 2" VENT UP IN WALL. OFFSET AT MINIMUM 45 DEGREE ANGLE TO WASTE PIPE AS SHOWN.
- 11 1.25" HOT AND COLD WATER UP IN WALL. PROVIDE 0.75" HOT AND COLD WATER TAPS OFF LINES ABOVE GRADE AND ROUTE BELOW GRADE TO ADJACENT 3-COMP SINK FAUCET AS SHOWN. PROVIDE 0.5" HOT AND COLD WATER CONNECTIONS TO HAND SINK FAUCET.
- 12 0.5" RECIRC LINE UP IN WALL. CONNECT TO HOT WATER LINE ABOVE GRADE.
- 13 1.25" HOT AND COLD WATER AND 0.5" RECIRC LINE UP IN WALL.
- 14 1" COLD WATER UP IN WALL.
- 15 1" COLD WATER SUPPLY UP THRU SLAB FOR CUSTARD
- 16 0.5" COLD WATER UP IN WALL TO DRAFT BEER DISPENSER.
- 17 0.5" COLD WATER UP IN WALL.
- 18 2" TRAPPED WASTE UP TO FLOOR DRAIN WITH TRAP GUARD
- 19 3" VENT UP. OFFSET FROM COMBO WASTE AND VENT AT MINIMUM 45 DEGREES.
- 20 3" GREASE TRAPPED GREASE WASTE UP TO FLOOR DRAIN
- WITH TRAP GUARD INSERT. 0.75" COLD WATER AND 0.75" HOT WATER UP IN WALL TO 3-COMP SINK FAUCET. TAP OFF OF COLD WATER LINE AND

ROUTE 0.5" COLD WATER BELOW GRADE AS SHOWN TO ICE

- 22 3" TRAPPED WASTE UP TO FLOOR DRAIN WITH TRAP GUARD
- 3" GREASE WASTE UP. OFFSET TO MOP SINK DRAIN CONNECTION AND PROVIDE TRAPPED CONNECTION TO MOP SINK AS SHOWN. EXTEND 3" VENT UP IN WALL AND PROVIDE WALL CLEANOUT IN ACCESSIBLE LOCATION AT BASE OF RISER. AFTER CLEANOUT, EXTEND 1.5" VENT UP IN WALL.
- 25 4" WASTE LINES UP TO 2-WAY FINISH GRADE CLEANOUT.
- 26 4" GREASE WASTE LINES UP TO 2-WAY FINISH GRADE CLEANOUT.

GENERAL NOTES:

- PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FRO DIMENSIONS.
- SLEEVE ALL FOUNDATION WALL PENETRATIONS OR WHERE PASSING BELOW FOOTINGS.

ALL WATER CONNECTIONS TO KITCHEN EQUIPMENT

- REQUIRE A WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC VENT AND DRAIN ROUTED TO NEAREST
- WASTE LINES FROM STORAGE SECTION OF ICE MAKERS AND DISPENSERS MUST BE ROUTED SEPARATELY FROM THE DUMP. OVERFLOW. AND/OR CONDENSER LINES. ALL LINES ARE REQUIRED TO BE INDIRECTLY DISCHARGED INTO AN APPROVED RECEPTOR AND MAINTAIN PROPER AIR GAP.
- FREEZER SHALL BE PROVIDED WITH A DETACHABLE AIR GAP TO FLOOR DRAIN.
- DO NOT INSTALL JOINTS IN UNDERGROUND WATER OR
- ALL HORIZONTAL PIPING PENETRATIONS THROUGH GRADE BEAMS SHALL BE SLEEVED AND LOCATED IN THE CENTER THIRD OF THE GRADE BEAM.
- GRADE BEAMS SHALL BE THROUGH THE CENTER OF THE GRADE BEAM VERTICALLY WITH A SLEEVE BELOW AND THROUGH THE GRADE BEAM. USE OVERSIZED WASTE FITTINGS WITH BOTTOM HALF REMOVED OVER WASTE FITTINGS WITH VERTICAL RISE THROUGH GRADE BEAM.
- THIRD OF THE GRADE BEAM BEFORE TURNING VERTICALLY THROUGH THE CENTER OF THE GRADE
- THE FIXTURE OUTLET TO 24" OR LESS.
- PIPING SHALL MEET THE JOHNSON COUNTY JOHNSON COUNTY WASTEWATER.

GENERAL NOTES:

FOR ALL PLUMBING QUESTIONS CONTACT RTM PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

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CONDENSATE LINES IN WALK-IN REFRIGERATOR AND UNION NEAR THE EVAPORATOR PAN. SECURE WASTE LINES TO WALL WITH SPACING BRACKETS AND PROVIDE

ALL VERTICAL PIPING PENETRATIONS THROUGH THE

ALL PIPING 2" AND SMALLER ELBOWING INTO THE GRADE BEAMS SHALL BE SLEEVED AND ENTER THE MIDDLE

BRANCH PIPING SHALL BE OFFSET UP TO ANY TRAPPED FIXTURE TO LIMIT DISTANCE ABOVE THE TRAP WEIR TO

ALL SANITARY PIPING OUTSIDE THE BUILDING FOUNDATION IS SHOWN ON THE CIVIL SITE PLAN. THIS WASTEWATER STANDARDS AND SHALL BE INSPECTED BY

ENGINEERING CONSULTANTS, 417-881-0020. CONTACT



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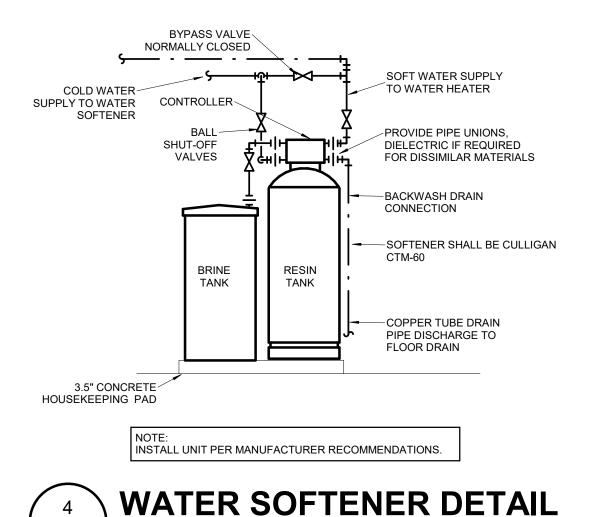
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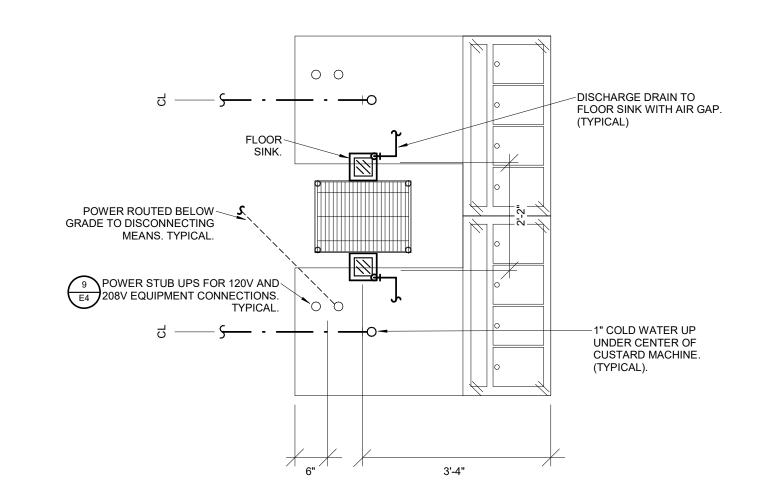
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noted otherwise.

Architect: Matthew Hufft License Number: MO# Drawn TSE **₽**yöject Number: 736

UNDERGROUND PLUMBING PLAN





CUSTARD MACHINE WATER/POWER DETAIL

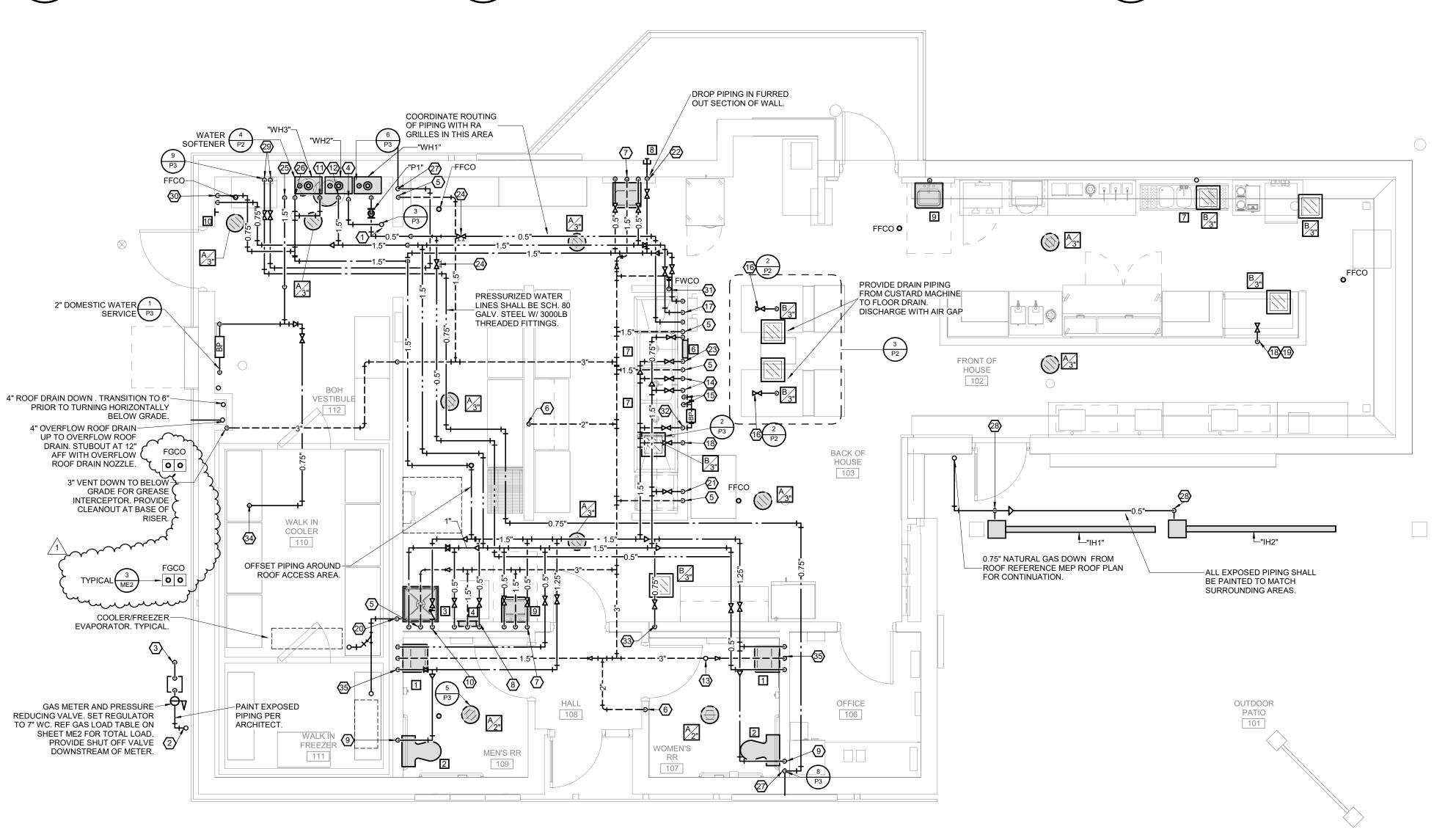
P2

/ SCALE: NOT TO SCALE

COORDINATE ROUGH IN AND INSTALLATION WITH EQUIPMENT PRIOR TO ANY WORK. DUAL CHECK BACKFLOW BALL VALVE PREVENTER EQUAL TO WATTS LF7R SEALANT AT JOINT FINISH FLOOR **THREADED** FITTING. PVC SLEEVE THRU SLAB RADIUS BEND OF TUBING. DO NOT INSTALL JOINTS BELOW GRADE. 1" WATER GENERAL CONTRACTOR TO PROVIDE FLEXIBLE HOSE CONNECTION TO CUSTARD MACHINE. COORDINATE HEIGHT OF VALVE LOCATION WITH HEIGHT OF BOTTOM OF MACHINE.

CUSTARD MACHINE STUB-UP

2 DETAIL
P2 SCALE: NOT TO SCALE



FIRST FLOOR PLUMBING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 EDITION OF THE INTERNATIONAL PLUMBING CODE AS ADOPTED BY THE CITY OF LEE'S SUMMIT, MO.
PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

CONTRACTOR SHALL CONTACT THE LOCAL WATER

CONTRACTOR SHALL CONTACT THE LOCAL WATER DEPARTMENT AND ARRANGE FOR WATER SERVICE AND FIRE SERVICE AS INDICATED ON THE 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 WITH REQUIREMENTS OF LOCAL AUTHORITIES.

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

CONTRACTOR SHALL CONTACT THE LOCAL GAS COMPAN' 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.

CLOSELY COORDINATE WORK WITH ALL OTHER TRADES

REFER TO SCHEDULE FOR ALL DRAINS AND FLOOR SINKS.

TYPE IS GIVEN IN DESIGNATION AND SIZE REFERS TO

MAINTAIN MANDATORY 10'-0" CLEARANCE FROM ALL VENTS AND OUTSIDE AIR INTAKES. REFER TO HVAC PLANS FOR LOCATIONS PRIOR TO VENT ROUGH-IN.

ALL WATER, VENT, AND WASTE PIPING SHALL BE ROUTE

WASTE PIPING CONNECTION.

TIGHT TO THE CEILING STRUCTURE OR THRU THE BAR JOISTS. COORDINATE ROUGH-IN WITH ALL TRADES.

ALL FIXTURES SHALL HAVE SHUT-OFF VALVES INSTALLED ABOVE ACCESSIBLE CEILING, WHETHER OR NOT

SPECIFICALLY SHOWN ON THE DRAWINGS.

INSULATE ALL DOMESTIC WATER AND HVAC CONDENSATE DRAIN PIPING WITH 0.5" ARMAFLEX. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING NO GREATER THAN 25 AND A SMOKE DEVELOPED RATING NO GREATER THAN 50.

REQUIRE A WATTS SD-3 DUAL CHECK VALVE WITH ATMOSPHERIC VENT AND DRAIN ROUTED TO THE NEAREST FLOOR DRAIN OR SINK.

ALL WATER CONNECTIONS TO KITCHEN EQUIPMENT WILL

INSTALL AN ASSE 1012, 1022, OR EQUIVALENT BACKFLOW PREVENTER ON WATERLINE TO CARBONATOR.

WASTE LINE FROM STORAGE SECTION OF SIZE MAKERS AND DISPENSERS MUST BE ROUTED SEPARATELY FROM THE DUMP, OVERFLOW, AND/OR CONDENSER LINES. ALL LINES ARE REQUIRED TO BE INDIRECTLY DRAINED IN AN APPROVED RECEPTOR AND MAINTAIN A PROPER AIR GAP.

ON ANY FIXTURE WITH A THREADED FAUCET, A
BACKFLOW PREVENTER IS REQUIRED. 16" CONDENSATE
LINES IN WALK-IN REFRIGERATOR AND FREEZER SHALL
BE PROVIDED WITH A DETACHABLE UNION NEAR THE
EVAPORATOR PAN. SECURE WASTE LINES TO WALL WITH
SPACING BRACKETS AND PROVIDE AIR GAP TO FLOOR
DRAIN.

CONTRACTOR SHALL COMPLY WITH SECTION 610.10F OF THE 2018 IPC. A THIRD PARTY BACTERIOLOGICAL REPOR' SHALL BE SUBMITTED TO THE PLUMBING INSPECTOR PRIOR TO C/O.

WHERE IN CONTACT WITH MATERIAL OR ATMOSPHERE EXERTING A CORROSIVE ACTION, METALLIC PIPING AND FITTINGS COATED WITH A CORROSION RESISTANT MATERIAL SHALL BE USED. EXTERNAL OR INTERNAL COATINGS OR LININGS USED ON PIPING OR COMPONENTS SHALL NOT BE CONSIDERED AS ADDING STRENGTH.

CONTRACTOR IS RESPONSIBLE FOR CONNECTIONS TO ALL KITCHEN EQUIPMENT. INCLUDE ALL FITTINGS, SLEEVES, STOPS, VALVES, TRAPS, CLEANOUTS, INSULATION, VACUUM BREAKERS, AND HARDWARE AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ALL INDIRECT DRAIN CONNECTIONS TO FLOOR SINKS.

CONTRACTOR SHALL SHUTOFF VALVES AT EACH CONNECTION TO KITCHEN EQUIPMENT.

CONTRACTOR SHALL PROVIDE INTERCONNECTION OF VENTILATORS AND CONTROL PANELS, DETERGENT SYSTEMS, WASTE SYSTEMS, AND DISH MACHINE BOOSTER HEATER.

CONTRACTOR SHALL INSTALL ALL ACCESSORIES AND FITTINGS PROVIDED LOOSE WITH KITCHEN EQUIPMENT. PROVIDE CHROME ESCUTCHEON RINGS AT ALL WALL PENETRATIONS.

PLAN HEX NOTES:

1.5" NATURAL GAS DOWN THRU ROOF.

2" GAS DOWN TIGHT ON EXTERIOR WALL TO GAS METER.
PROVIDE SHUTOFF VALVE AFTER METER ON SECONDARY
SERVICE. PROVIDE PRESSURE REDUCING VALVE AND SET TO 7"
WC. SEE GAS LOAD TABLE ON SHEET ME2.

NATURAL GAS SERVICE DOWN TO BELOW GRADE. SEE MEP SITE PLAN FOR CONTINUATION. PROPERLY SUPPORT GAS PIPING AND PERMANENTLY FIX SUPPORTS TO CONCRETE PAD.

PIPING AND PERMANENTLY FIX SUPPORTS TO CONCRETE PA

1.5" NATURAL GAS DOWN TO WATER HEATER MANIFOLD. SEE WATER HEATER DETAIL

5 1.5" VENT DOWN.

6 2" VENT DOWN.

0.5" HOT AND COLD WATER AND 1.5" VENT DOWN TO HAND SINK.

0.5" HOT AND COLD WATER AND 1.5" VENT DOWN TO WASHER BOX.

0.5" COLD WATER DOWN TO WATER CLOSET.

0 .75" HOT AND COLD WATER DOWN IN WALL TO MOP SINK FAUCET.

11 1.5" SOFT WATER DOWN TO WATER HEATER MANIFOLD.

2 1.5" HOT WATER DOWN TO WATER HEATER MANIFOLD.

13 3" VENT UP TO 4" VENT THRU ROOF.

1.5" HOT AND COLD WATER DOWN TO 3-COMP SINK FAUCETS. PROVIDE 0.75" HOT AND COLD WATER CONNECTION TO EACH OF (2) FAUCETS.

1" COLD WATER DOWN TO BELOW GRADE FOR CUSTARD

16 SHUT OFF VALVE FOR CONNECTION TO CUSTARD MACHINE.

17 1.25" HOT AND COLD WATER AND 0.5" RECIRC LINE DOWN IN

18 0.5" COLD WATER DOWN TO BELOW GRADE.

WALL TO BELOW GRADE.

0.5" COLD WATER CONNECTION TO DRAFT BEER DISPENSER. STUB OUT AT 18" AFF AND PROVIDE SHUTOFF VALVE AND WATTS 009 RPZ. NO COPPER PIPING SHALL BE PERMITTED DOWNSTREAM OF BACKFLOW DEVICE. PROVIDE INDIRECT DRAIN TO FLOOR DRAIN.

20 FULL SIZE CONDENSATE DRAIN FROM WALK IN COOLER/FREEZER DOWN TO INDIRECT DRAIN AT MOPSINK.

0.5" HOT WATER DOWN TO HIGH TEMP WAREWASHER. STUB OUT 12" AFF. PROVIDE 0.75" DRAIN TO INDIRECT DRAIN AT FLOOR SINK.

22 0.75" COLD WATER DOWN TO WALL HYDRANT.

23 0.75" HOT AND COLD WATER DOWN TO HOSE BOX.

BALANCE CIRCUIT SETTER TO 1 GPM.

25 1.5" COLD WATER DOWN TO WATER SOFTENER.

26 1.5" SOFT WATER TO OUTLET SIDE OF WATER SOFTENER.
ROUTE TO WATER HEATER MANIFOLD AND TO BUILDING
FIXTURES AS SHOWN. ALL HOT AND COLD WATER

27 0.75" PRESSURIZED WATER DOWN CONCEALED IN WALL WITH SHUTOFF VALVE IN RISER JUST BELOW CEILING. PROVIDE TEE BELOW SHUT OFF VALVE WITH 3/8" SHUTOFF VALVE TEE FOR MANUAL AIR VENT FOR SYSTEM DRAINING. PROVIDE ACCESS PANEL IN WALL FOR VALVE ACCESS. STUB 0.75" WATER LINE IN ACUDOR ARVB RECESSED VALVE BOX AT 36" AFG IN EXTERIOR WALL. PROVIDE THREADED CONNECTION TO QUICK CONNECT DEVICE IN VALVE BOX. ALL VALVES SHALL BE 8.709 STAINLESS STEEL HIGH PRESSURE BALL VALVES RATED FOR 5800 PSI.

CONNECTIONS FOR THE BUILDING SHALL BE FED FROM THE

0.5" GAS DOWN TO HEATER WITH SHUT OFF VALVE, UNION, AND DIRT LEG WITH THREADED CAP. PAINT EXPOSED PIPING TO MATCH SURROUNDING AREA.

29 (2) 0.75" PRESSURIZED WATER LINES DOWN TO PRESSURE WASHER. PROVIDE COUPLER AND FLEXIBLE CONNECTION FOR CONNECTION TO OUTLET SIDE OF PRESSURE WASHER. ALL PRESSURIZED WATER LINES SHALL BE SCHEDULE 80 GALVANIZED STEEL PIPE WITH 30000LB THREADED FITTINGS.

0.75" HOT AND COLD WATER DOWN TO THERMOSTATIC MIXING VALVE WITH VACUUM BREAKERS AND SHUT OFF VALVES FOR CONNECTION TO PRESSURE WASHER EQUIPMENT. VERIFY HOSE BIBB MOUNT HEIGHT AND LOCATION WITH EQUIPMENT PRIOR TO ANY ROUGH IN.

31 3" VENT DOWN. PROVIDE CLEANOUT AT BASE OF WALL PRIOR TO PENETRATING FLOOR.

2 1.25" COLD WATER DOWN IN WALL. OFFSET OUT OF WALL AND ROUTE THRU RPZ BACKFLOW PREVENTER ALONG WALL AS SHOWN. MAX HEIGHT OF BACKFLOW PREVENTER SHALL BE 36' AFF. ROUTE (2) 1" COLD WATER LINES DOWN IN WALL AS SHOWN UNDER GROUND TO EACH CUSTARD MACHINE.

33 0.75" CW DOWN TO ICE MAKER.

34 0.75" CW UP TO ROOF HYDRANT.

35 0.5" HW AND CW AND 1.5" VENT DOWN AND LAVATORY

GENERAL NOTES:

FOR ALL PLUMBING QUESTIONS CONTACT RTM ENGINEERING CONSULTANTS, 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

Huff

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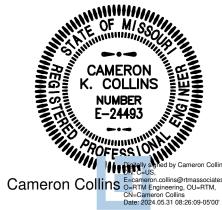
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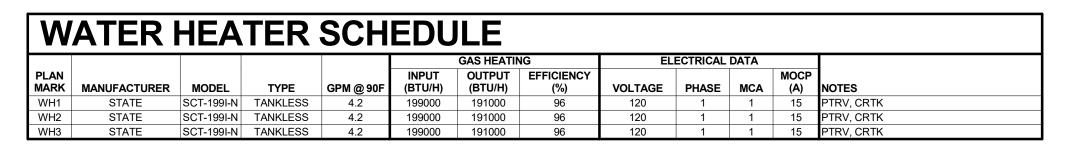


Architect: Matthew Hufft
License Number: MO#
Drawn TSE

FIRST FLOOR PLUMBING PLAN

P2

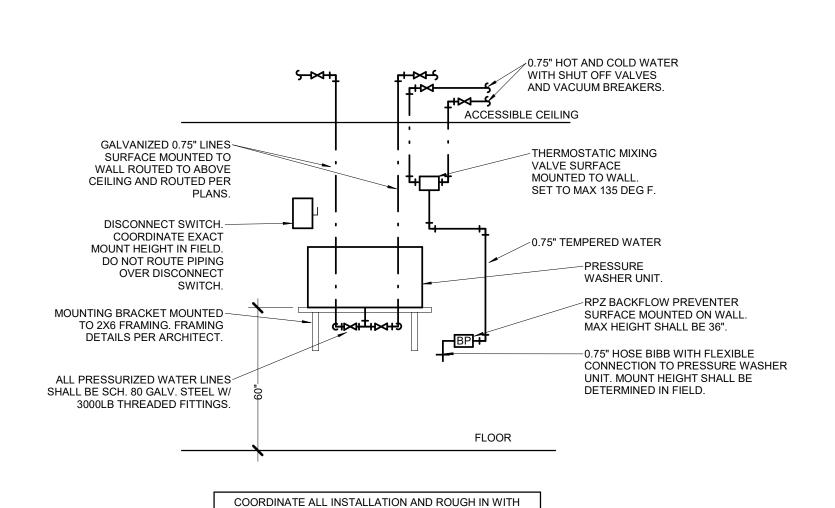
₽Yöject Number: 736



PI	PUMP SCHEDULE															
								WORK		ELECTRICAL DATA					FLUID	
PLAN				INLET	FLOW	TOTAL HEAD		CLASS	MOTOR				BODY	FLUID	TEMPERATURE	
MARK	MANUFACTURER	SERIES	SIZE	(IN)	(GPM)	(FT HD)	TYPE	(PSI)	(HP)	RPM	VOLTAGE	PHASE	CONSTRUCTION	PUMPED	(°F)	NOTES
P1	BELL & GOSSETT	PI	30	0.5"	2	10	П	150	0.06	2650	120	1	ALL BRONZE	DHW	140	AB ATC

					CC	NNECT	ION SIZ	ES		
PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	
1	20 X 18 WALL HUNG LAVATORY	AMERICAN STANDARD	LUCERINE 0355.012	FAUCET: AMERICAN STANDARD 5400.172, CONCEALED ARM CARRIER, PROVIDE ASSE 1070 MIXING VALVE SET TO 105°F IF NOT INTEGRAL TO FAUCET.	0.5	0.5	1.5	1.5	FAUCET HOLES TO MATCH FAUCET SPECIFIED. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.	
2	ADA FLOOR MOUNTED, FLUSH TANK, BOTTOM OUTLET WATER CLOSET	GERBER	DF-21-318	CLOSE-COUPLED, 1.28 GALLONS PER FLUSH, CHURCH #9500C OPEN FRONT WHITE SEAT LESS COVER	0.5	-	4	2	FIXTURE ASSEMBLY MUST BE APPROVED AND INSTALLED PER ADA. PROVDE ALTERNATIVE TANK AS NECCESSARY FO TRIP LEVER TO BE INSTALLED ON OPPOSITE SIDE WALL GRAB BAR.	
3	3 FLOOR MOUNT, 24X24X10, JANITOR'S BASIN FIAT MSB-2424		FAUCET: FIAT MODEL 830AA, 832-AA HOSE AND HOSE BRACKET, 889-CC MOP HANGER, QDC-35N QUICK DRAIN CONNECTOR, 3" GRID DRAIN. MOLDED STONE BASIN.	0.5	0.5	3	1.5	MOP BASIN WITH CONTINUOUS STAINLESS STEEL CAPS ON ALL CURBS.		
4	OULET BOX WASHING MACHINE, NON-RATED WALL INSTALL TOP VALVES	SHING MACHINE, TED WALL INSTALL		ACCESSORIES: 2" SLIPNUT DRAIN KIT. PROVIDE PDI 'A' HOT AND COLD WATER HAMMER ARRESTORS. WHITE POWDER COAT FINISH.	0.5	0.5	2	1.5		
6	HOSE BOX	ACORN	8145-SSLF	LEAD FREE VALVE AND STOPS, VACUUM BREAKER, WASTE OUTLET, LESS LOCKABLE COVER.	0.75	0.75	-	-	PROVIDE WITHOUT LOCKABLE COVER	
7	3-COMP SINK FAUCET	CHICAGO FAUCET	322-CP	SINGLE HOLE CAST SWING SPOUT, 396 INDEXED LEVER HANDLE, 2.2 GPM PRESSUREIZED COMPENSATING SOFT FLOW AERATOR, INTEGRAL WALL FLANGE	0.75	0.75	-	-	MEETS ADA, ASME A112.18.1 AND NSF 61 CODES AND STANDARDS.	
8	FREEZE LESS WALL HYDRANT	WOODFORD	MODEL 67	LOOSE TEE HANDLE, MODEL 50H DOUBLE CHECK BACKFLOW PREVENTER, CHROME EXTERIOR FINISH.	0.75	-	-	-	PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS	
9	HAND SINK BY KES			0.5	0.5	1.5	1.5	HAND SINK, TRAP, SUPPLIES, FAUCET, ETC. BY KITCHEN EQUIPMENT SUPPLIER P/C SHALL PROVIDE TRUEBRO LAVGUAR 2 UNDERSINK ADA TRAP AND SUPPLY COVERS AND ASSE 1070 MIXING VALVE FOR EACH HAND SINK LOCATION.		
10	CHROME HOSE BIBB	WOODFORD	MODEL 24P-3/4	LOOSE TEE KEY, MODEL 34HF VACUUM BREAKER, CHROME EXTERIOR FINISH.	0.75	-	-	-		
11	ROOF HYDRANT	MAPA	MPH-24FP		-	-	-	-	COORDINATE ROOF DETAILS WITH ARCHITECT AND STRUCTURAL ENGINEE	

PLAN MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	NOTES
Α	7" ROUND FLOOR DRAIN	J.R. SMITH	2010-A	NICKEL BRONZE STRAINER, DEEP SEAL TRAP, SURE SEAL WATERLESS TRAP PRIMER	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE.
В	FLOOR SINK	J.R. SMITH	305-F-15	12" SQUARE, USDA ACCEPTED, IAPMO LISTED, PVC BODY RATED TO 200-DEGREES WITH ANCHOR FLANGE, SEDIMENT TRAY, AND 1/2 PVC GRATE.	DRAIN SIZE SHALL MATCH SANITARY BRANCH SERVING DRAIN. REFERENCE PLANS FOR SIZE. PROVIDE WITH TRAP GUARD INSERT.
С	CAST IRON ROOF DRAIN AND DOME	J.R. SMITH	1010-C-R-A-U	UNDERDECK CLAMP, SUMP RECEIVER, ALUMINUM DOME, VANDAL PROOF DOME	ROOF DRAIN TO BE FULL SIZE OF STORM DRAIN LEADER.
D	CAST IRON OVERFLOW DRAIN WITH WATER DAM AND DOME	J.R. SMITH	1080-C-R-A-U	UNDERDECK CLAMP, SUMP RECEIVER, ALUMINUM DOME, VANDAL PROOF DOME, WATER DAM	ROOF DRAIN TO BE FULL SIZE OF STORM DRAIN LEADER.
FFCO	FINISHED FLOOR CLEANOUT	J.R. SMITH	4023	HARD FLOOR: ROUND CHROME PLATED SCORIATED COVER, CARPET AREAS: NICKEL BRONZE TOP AND CARPET CLAMP OR CARPET MARKER.	VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.
FGCO	FINISHED GRADE CLEANOUT	J.R. SMITH	4223-U	EXTRA HEAVY DUTY CAST IRON VANDAL PROOF TOP.	IF NOT LOCATED IN CONCRETE, PROVIDE 18"x18"x7" CONCRETE PAD AROUND CLEANOUT WITH #3 REBAR AND CHAMFERED EDGES. CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.
FWCO	WALL CLEANOUT	J.R. SMITH	4532 WITH CLEANOUT PLUG OR 4512 WITH COUNTERSUNK PLUG	PROVIDE CLEANOUT PLUG AND STAINLESS STEEL ACCESS COVER IN FINISHED AREAS. PROVIDE COUNTER SUNK PLUG IN UNFINISHED AREAS.	CLEANOUT TO BE FULL SIZE OF SOIL PIPE UP TO AND INCLUDING 4-INCH ID. REFERENCE PLANS FOR SOIL PIPE SIZE.



ANDY'S REPRESENTATIVE AND EQUIPMENT SUPPLIER. PRESSURE WASHER ELEVATION SCALE: NOT TO SCALE



PRESSURIZED WATER DROP

SCALE: NOT TO SCALE

P3

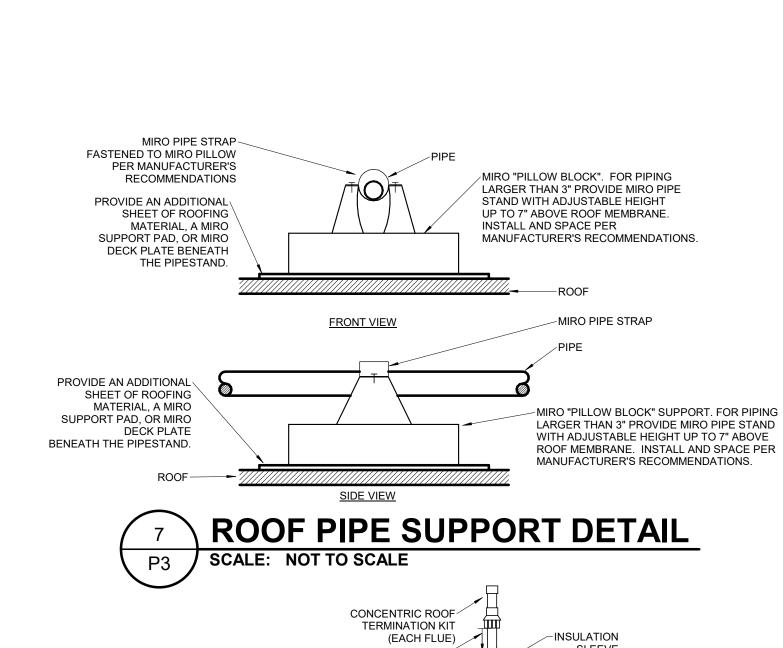
SCHEDULE LEGEND

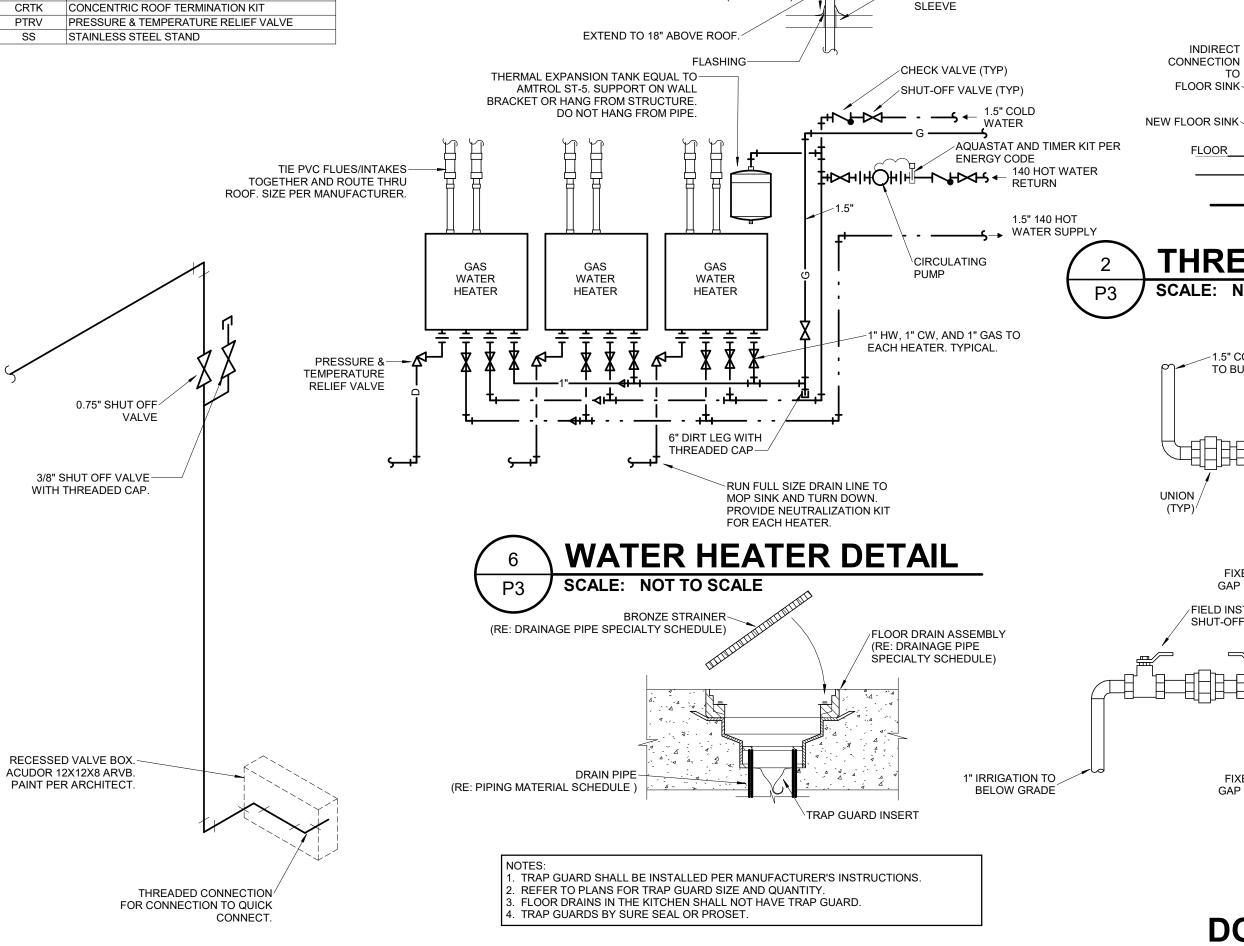
EFFICIENCY | MINIMUM EFFICIENCY OF WATER HEATER

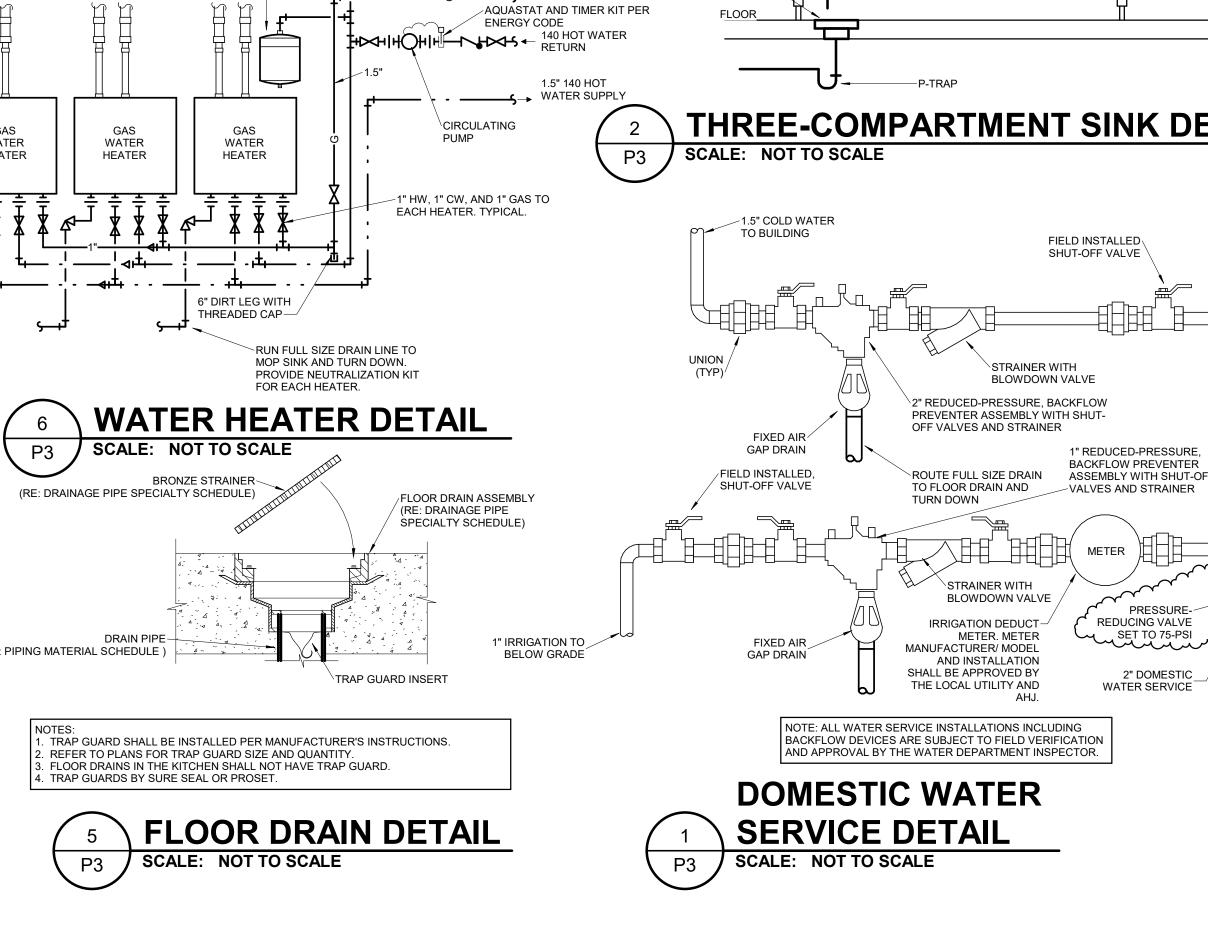
GALLONS PER HOUR

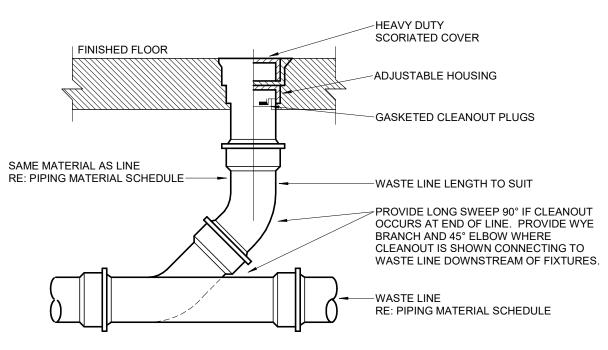
HORSEPOWER

ABBREVIATED SCHEDULE HEADINGS

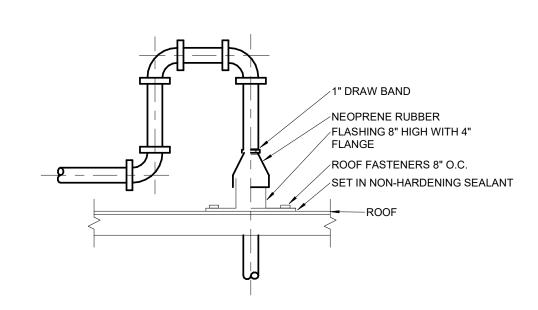




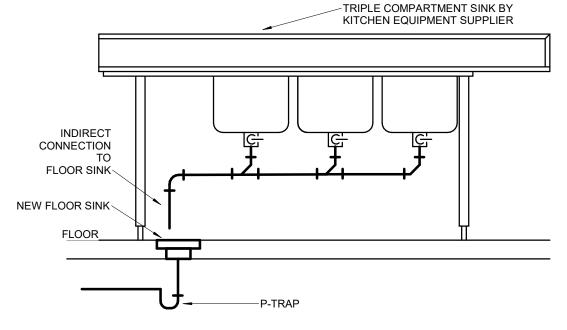




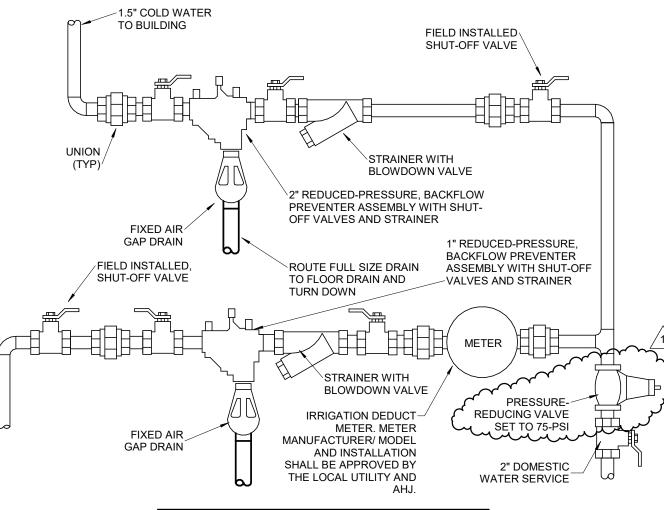
FLOOR CLEANOUT DETAIL SCALE: NOT TO SCALE P3



GAS PIPE THRU ROOF DETAIL SCALE: NOT TO SCALE



THREE-COMPARTMENT SINK DETAIL



Hufft

PROJECT INFORMATION: **Andy's Frozen Custard #204** \cdots 630 NW Chapman Rd Lee's Summit, MO 64806 OWNER ANDY'S FROZEN CUSTARD 211 E. Water Street www.eatandys.com ARCHITECT: HUFFT

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LANDSCAPE ARCHITECT:

PHELPS ENGINEERING INC

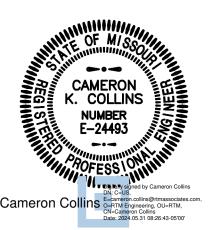
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REVISION SCHEDULE: DATE 05-30-2024 AD 01

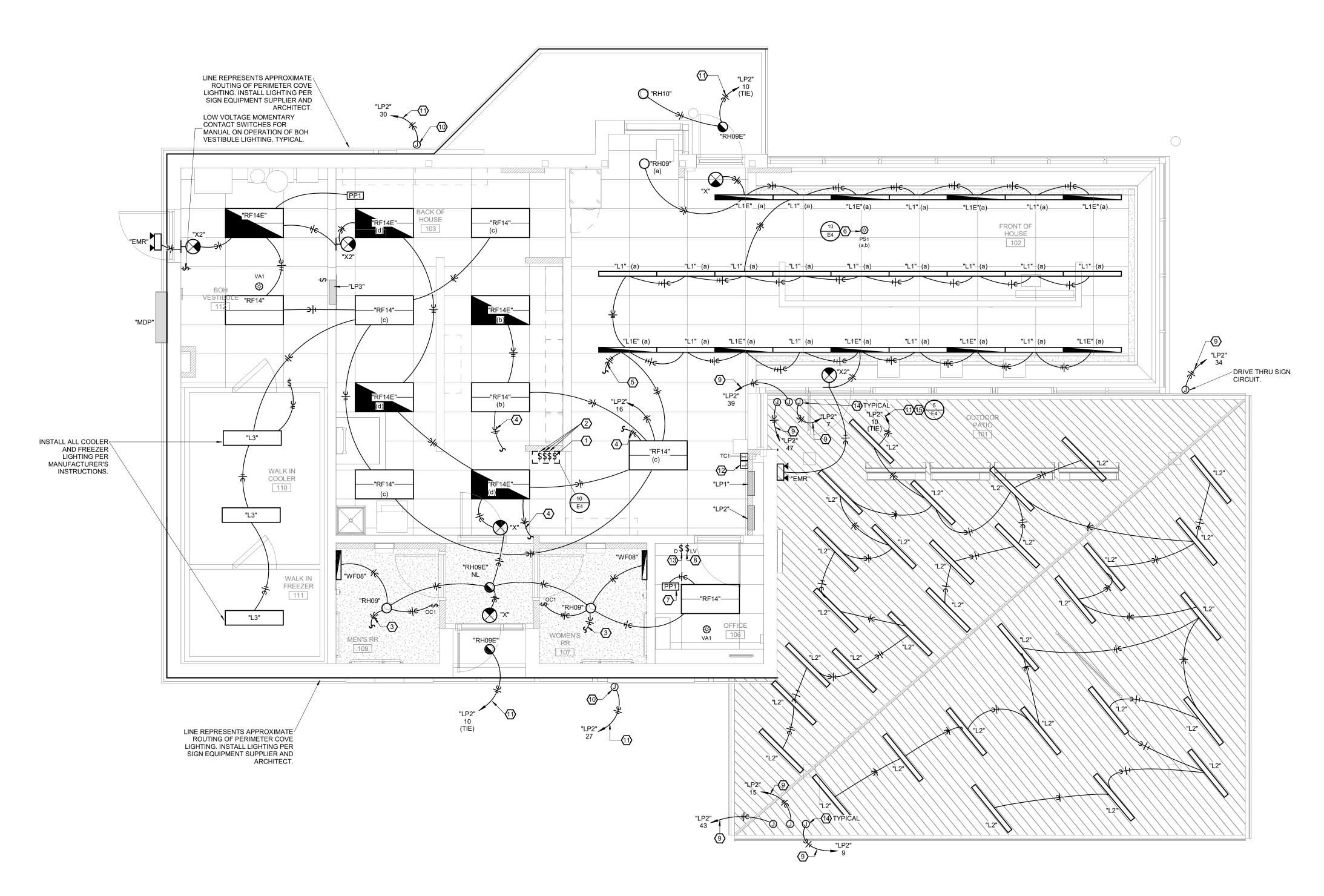
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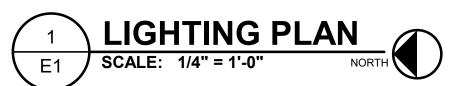
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Architect: Matthew Hufft License Number: MO# Drawn TSE **₽**Yöject Number: 736

PLUMBING DETAILS AND SCHEDULES





PLAN HEX NOTES: PROVIDE 60 MIN TIME OUT LIGHT SWITCHES FOR FRONT OF

- HOUSE LIGHTING (SWITCH ID (A)) IN SINGLE BOX WITH "FRONT-OF-HOUSE" SCREENED ON COVERPLATE. SWITCHES SHALL BE HUBBELL DT5060W OR EQUIVALENT.
- PROVIDE 60 MIN TIME OUT LIGHT SWITCHES FOR BACK OF HOUSE LIGHTING (SWITCH ID (B), (C), AND (D)) IN A SINGLE BOX WITH "BACK-OF-HOUSE" SCREENED ON COVERPLATE. SWITCHES SHALL BE HUBBELL DT5060W OR EQUIVALENT.
- EXTEND CIRCUITRY TO RESTROOM EXHAUST FAN. WIRE FAN SUCH THAT IT IS CONTROLLED WITH THE RESTROOM LIGHT FIXTURES. SEE POWER PLAN FOR EXHAUST FAN LOCATION.
- ROUTE SWITCHLEG THRU CONTACTOR "LC1". SEE LIGHTING CONTROL WIRING DIAGRAM.
- ROUTE SWITCHLEG THRU CONTACTOR "LC1" AND DAYLIGHT SENSOR "PS1". SEE LIGHTING CONTROL WIRING DIAGRAM.
- FRONT OF HOUSE LIGHTING SHALL BE AUTOMATICALLY DIMMED VIA DAYLIGHT SENSOR. INSTALL SENSOR IN LOCATION HUFFT AS RECOMMENDED BY THE MANUFACTURER.
- PROVIDE LIGHTING AND PLUG LOAD CONTROLLERS INSTALLED
 ABOVE ACCESSIBLE CEILING. LIGHTING SHALL BE TURNED ON
 MANUALLY AT SWITCH BY COOL BASE AND TABLED TO THE PROPERTY OF THE P MANUALLY AT SWITCH BY OCCUPANT AND TURNED OFF MANUALLY BY SWITCH OR AUTOMATICALLY BY VACANCY SENSOR AFTER 20 MINUTES OF INACTIVITY. LIGHTING POWER PACK SHALL BE CONNECTED WITH PLUG LOAD POWER PACK SHOWN ON THE POWER PLANS. WIRE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED COMPONENTS TO MEET DESIGN INTENT.
- PHELPS ENGINEERING INC
- 9 PULL FASCIA LIGHTING CIRCUIT THRU LIGHTING CONTACTOR
- POWER FOR PERIMETER COVE LIGHTING. LIGHTING FURNISHED
- 11 ROUTE THRU TIME CLOCK CONTROLLED CONTACTOR "LC2".
- ENCLOSURE.
- 13 0-10V DIMMER SWITCH FOR CONTROL OF CANOPY LIGHTING. PROVIDE PERMANENT LABEL THAT READS "CANOPY LIGHTING
- Olathe, KS 66061
 OVERHEAD CANOPY, COORDINATE EXACT ROUGH IN LOCATION
 AND REQUIREMENTS WITH SIGNAGE OF STREET OF STRE AND REQUIREMENTS WITH SIGNAGE SUPPLIER. PROVIDE WEATHERPROOF DISCONNECTING MEANS.
- 15 ROUTE THRU DIMMER SWITCH LOCATED IN THE OFFICE. PROVIDE ALL 0-10V WIRING REQUIRED.

GENERAL NOTES:

FOR ALL ELECTRICAL QUESTIONS CONTACT RTM ENGINEERING CONSULTANTS, 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

PROJECT INFORMATION: Andy's Frozen Custard #204

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- PROVIDE LOW VOLTAGE MOMENTARY CONTACT SWITCH.
 WATTSTOPPER DCC2 OR EQUIVALENT FOR CONTROL OF ROOM

 CIVIL:
- "LC2" AND FASCIA LIGHTING ANIMATOR. 1270 N Winchester St #5878
- BY SIGNAGE SUPPLIER, INSTALLED BY CONTRACTOR.
- 12 CONTACTORS "LC1", "LC2", "LC3", AND "LC4" IN SINGLE
- 14 PROVIDE POWER AND ROUGH-IN TO J-BOX AND (3) 6-FOOT

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REVISION SCHEDULE: NO. DATE

05-30-2024 AD 01

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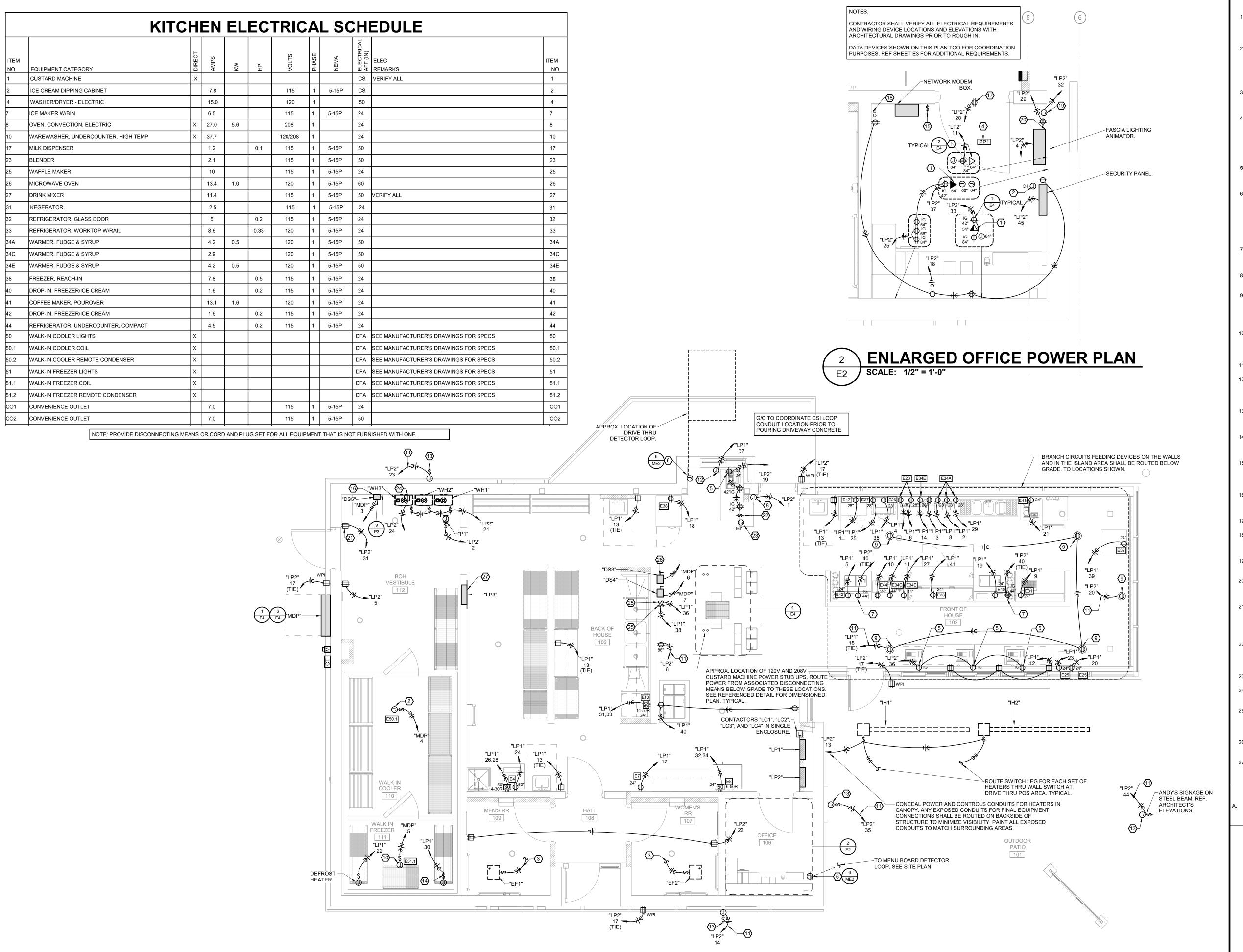
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Cameron Collins E=cameron.collins@rtmassociates.c

Architect: Matthew Hufft License Number: MO# Drawn TSE **₽y**öject Number: 736

LIGHTING PLAN



FIRST FLOOR POWER PLAN

PLAN HEX NOTES:

1 ROUTE (2) CAT6S CABLES TO NETWORK BOX MODEM LOCATED IN OFFICE. CABLES ROUTED ABOVE HARD CEILINGS SHALL BE IN 0.75" CONDUIT. CABLE ABOVE LAY-IN CEILINGS IS NOT REQUIRED TO BE IN CONDUIT.

PROVIDE 1.5" RIGID GALVANIZED WEATHER HEAD THROUGH ROOF ADJACENT TO MUZAK SYSTEM SATELLITE DISH MOUNTING LOCATION. ROUTE CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE BELOW. COORDINATE EXACT LOCATIONS AND ROUGH-IN WITH MUZAK SYSTEM VENDOR

PRIOR TO ROUGH-IN.

3 EXHAUST FAN POWERED ON RESTROOM LIGHTING CIRCUIT. FAN SHALL BE CONTROLLED VIA RESTROOM LIGHTING

CONTROLS.

INSTALL PLUG LOAD CONTROLLER ABOVE ACCESSIBLE
CEILING. CONNECT WITH LIGHTING CONTROLS SHOWN ON
LIGHTING PLANS. ONE OUTLET OF EACH DUPLEX RECEPTACLE
ON CIRCUIT SHALL BE TURNED ON AUTOMATICALLY BY
VACANCY SENSOR SHOWN ON LIGHTING PLANS. OUTLET SHALL
BE TURNED OFF AUTOMATICALLY BY VACANCY SENSOR AFTER
20 MINUTES OF INACTIVITY.

5 RECEPTACLE FOR POS EQUIPMENT. FIELD COORDINATE EXACT MOUNTING LOCATION WITH KITCHEN EQUIPMENT AND CASH REGISTER LAYOUT PRIOR TO ROUGH IN.

PROVIDE WALL MOUNTED JUNCTION BOX AT 80" AFF WITH 0.75"
CONDUIT WITH PULL WIRE ROUTED BELOW GRADE TO DRIVE
THRU AREA FOR DRIVE THRU LOOP. ROUTE SECOND 0.75"
CONDUIT WITH PULL WIRE ROUTED BELOW GRADE TO
INTERIOR WALL AND THEN TO ABOVE ACCESSIBLE CEILING
SPACE. VERIFY REQUIREMENTS AND JUNCTION BOX LOCATION
WITH EQUIPMENT SUPPLIER. DRIVE THRU LOOP FURNISHED BY
OWNER. INSTALLED BY CONTRACTOR.

PROVIDE RECEPTACLE AND DATA CONNECTIONS FOR MAKE-TABLE MONITOR. COORDINATE LOCATION WITH DETAILS ON FOOD SERVICE EQUIPMENT DRAWINGS.

8 PROVIDE SERVICE DOOR CHIME (2 TONES). ROUGH IN AT 12" BELOW FINISH CEILING.

9 PROVIDE ROUGH IN AND CIRCUITING FOR INTERNALLY LIT FRONT WINDOW SIGNAGE. VERIFY LOCATION WITH ARCHITECT'S DRAWINGS PRIOR TO ROUGH IN. SIGNAGE WILL BE INSTALLED NEAR WINDOWS. RECEPTACLE MAY BE SHOWN OFFSET FOR CLARITY.

10 VERIFY EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS FOR WALK-IN COOLER/FREEZER EQUIPMENT/CONNECTIONS WITH EQUIPMENT MANUFACTURER. E/C IS RESPONSIBLE FOR FINAL CONNECTIONS TO ALL EQUIPMENT.

11 ROUTE CIRCUIT THRU CONTACTOR "LC3".

2 PROVIDE POWER FOR AUTOMATIC DRIVE THRU WINDOW. PROVIDE ALL WIRING BOXES, CONDUITS, AND CONNECTIONS AS REQUIRED. VERIFY ROUGH IN LOCATION WITH EQUIPMENT SUPPLIER.

POWER FOR STORE SIGNAGE. COORDINATE EXACT NUMBER OF BOXES, CIRCUITS, AND LOCATIONS WITH SIGNAGE SUPPLIER PRIOR TO ANY ROUGH IN.

14 PROVIDE POWER FOR FREEZER HEAT TRACE. PROVIDE TOTAL NUMBER OF CIRCUITS AS REQUIRED FOR LENGTH OF HEAT

PROVIDE J-BOX ADJACENT TO ROOM LIGHT SWITCH FOR WIRELESS MOTORIZED SHADE CONTROLLER. PROVIDE COVERPLATE AS REQUIRED. PROVIDE ENGRAVED LABEL AT SWITCH THAT READS "MOTORIZED SHADES."

16 POWER FOR PRESSURE WASHER. VERIFY EXACT MOUNT HEIGHT AND LOCATION IN FIELD WITH OWNER PROVIDED EQUIPMENT.

17 POWER FOR LED SIGN CONTROLLER ABOVE DOOR.

PROVIDE 2" EMPTY CONDUIT STUBBED UP TIGHT TO WALL TO 12" AFF FOR TELEPHONE SERVICE. COORDINATE EXTERIOR ROUTE TO SERVICE PEDESTAL WITH UTILITY.

19 PROVIDE #6 GROUND FOR CONNECTION TO TELE/DATA

20 FASCIA LIGHT ANIMATOR. WIRE ALL FASCIA LIGHTING THROUGH ANIMATOR. CONTACTOR "LC2" SHALL CONTROL

ON/OFF FUNCTION.

21 POWER FOR IRRIGATION CONTROLLER HIGH ON WALL.
COORDINATE EXACT LOCATION WITH IRRIGATION
CONTRACTOR. PROVIDE 1" CONDUIT WITH PULL WIRE TO

PROVIDE (2) 4-HOUR DIGITAL TIMER SWITCHES WITH 1HR, 2HR, AND 4HR OPTIONS FOR CONTROL OF INFRARED HEATERS.
PROVIDE PERMANENT LABELS AT EACH SWITCH. SWITCHES SHALL READ "MAIN CANOPY HEATERS".

EXACT LOCATION OF IRRIGATION VALVE BOX.

23 2-GANG BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING.

IRRIGATION VALVE BOX. REFERENCE CIVIL DRAWINGS FOR

24 POWER FOR WATER SOFTENER. COORDINATE EXACT LOCATION AND MOUNT HEIGHT WITH EQUIPMENT.

25 120V, 1P SWITCH ON WALL ADJACENT TO CUSTARD MACHINE DISCONNECTS FOR 120V POWER TO CUSTARD MACHINES. PROVIDE PERMANENT LABEL AT SWITCH THAT READS "120V CUSTARD MACHINE POWER".

26 PROVIDE PERMANENT LABEL AT DISCONNECT SWITCHES "DS3" AND "DS4" THAT READ "208V CUSTARD MACHINE POWER".

27 LOCATION OF PANEL "LP3" IF ALTERNATE ELECTRICAL DISTRIBUTION CONFIGURATION IS INSTALLED. UNDER STANDARD ELECTRICAL DISTRIBUTION CONFIGURATION, OMIT THIS PANEL.

GENERAL NOTES:

A. FOR ALL ELECTRICAL QUESTIONS CONTACT RTM ENGINEERING CONSULTANTS, 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

Huff

PROJECT INFORMATION:

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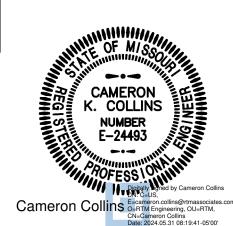
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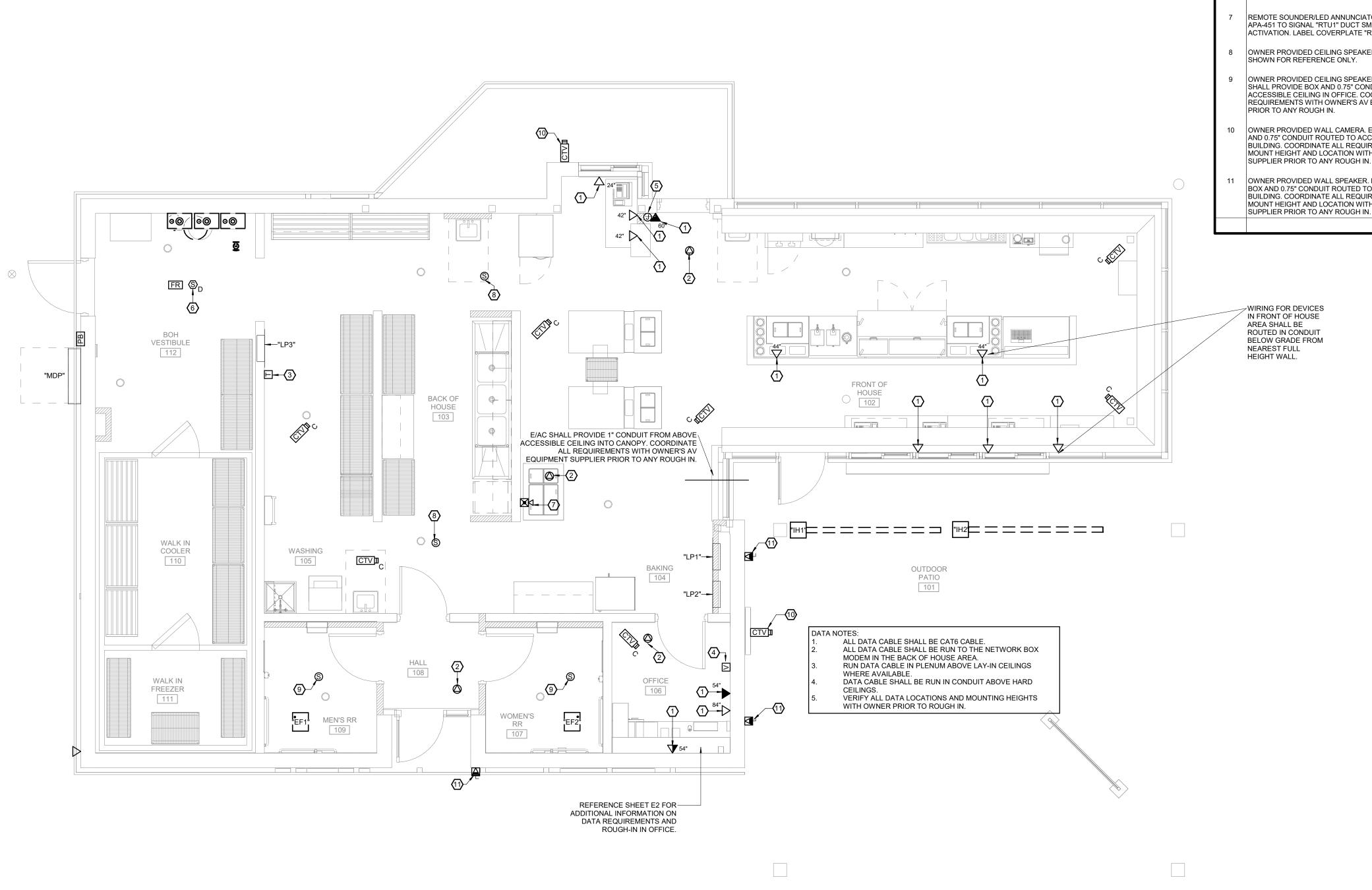


Architect: Matthew Hufft License Number: MO# Drawn TSE PY6ject Number: 736

POWER PLAN

noted otherwise.

E2



SPECIAL SYSTEMS PLAN

PLAN HEX NOTES:

- ROUTE (2) CAT6S CABLES TO NETWORK BOX MODEM LOCATED IN OFFICE. CABLES ROUTED ABOVE HARD CEILINGS SHALL BE IN 0.75" CONDUIT. CABLE ABOVE LAY-IN CEILINGS IS NOT REQUIRED TO BE IN CONDUIT.
- ROUTE (2) CAT6 CABLES FROM CEILING JUNCTION BOX TO NETWORK BOX MODEM LOCATED IN OFFICE. CABLE ROUTED ABOVE HARD CEILINGS SHALL BE IN 0.75" CONDUIT. CABLE ABOVE LAY-IN CEILINGS IS NOT REQUIRED TO BE IN CONDUIT
- REMOTE TEST STATION AND INDICATOR FOR DUCT SMOKE DETECTOR INSTALLED LOW ON WALL IN A LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION
- PROVIDE BACK BOX WITH 0.75" CONDUIT ROUTED IN WALL TO ABOVE ACCESSIBLE CEILING FOR MUZAK SYSTEM VOLUME CONTROL. COORDINATE EXACT LOCATION AND ROUGH IN REQUIREMENTS WITH MUZAK SYSTEM VENDOR PRIOR TO
- PROVIDE ROUGH IN AND FINAL CONNECTIONS TO SECURITY SYSTEM KEYPAD AT 60" AFF. EXTEND CONDUIT IN WALL UP TO ABOVE CEILING. COORDINATE LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN.
- DUCT SMOKE DETECTOR (EQUAL TO NOTIFIER DH100LP) SHALI BE INSTALLED IN RETURN AIR DUCT. COORDINATE WITH M/C FOR DUCTWORK SIZE AND ADDITIONAL LENGTH AS REQUIRED FOR DETECTOR INSTALLATION, UPON DETECTION OF SMOKE THE RETURN AIR DUCT ALL UNIT OPERATION SHALL BE SHUT OFF. PROVIDE FAN SHUTDOWN RELAYS AND ACCESSORIES A REQUIRED FOR UNIT SHUTDOWN. PROVIDE RTS-451 REMOTE KEYED TEST STATION AND INDICATOR IN BOX ON WALL CLOSE TO THE FLOOR WHERE SHOWN ON THE PLANS.
- REMOTE SOUNDER/LED ANNUNCIATOR. NOTIFIER MODEL APA-451 TO SIGNAL "RTU1" DUCT SMOKE DETECTOR ACTIVATION. LABEL COVERPLATE "RTU1 DETECTOR".
- OWNER PROVIDED CEILING SPEAKER IN LAY-IN CEILING. SHOWN FOR REFERENCE ONLY.
- OWNER PROVIDED CEILING SPEAKER IN GYP CEILING. E/C SHALL PROVIDE BOX AND 0.75" CONDUIT ROUTED TO ACCESSIBLE CEILING IN OFFICE. COORDINATE ALL REQUIREMENTS WITH OWNER'S AV EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH IN.
- OWNER PROVIDED WALL CAMERA. E/C SHALL PROVIDE WP BOX AND 0.75" CONDUIT ROUTED TO ACCESSIBLE CEILING IN BUILDING COORDINATE ALL REQUIREMENTS INCLUDING MOUNT HEIGHT AND LOCATION WITH OWNER'S AV EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH IN.
- OWNER PROVIDED WALL SPEAKER. E/C SHALL PROVIDE WP BOX AND 0.75" CONDUIT ROUTED TO ACCESSIBLE CEILING IN BUILDING. COORDINATE ALL REQUIREMENTS INCLUDING MOUNT HEIGHT AND LOCATION WITH OWNER'S AV EQUIPMENT

GENERAL NOTES:

THESE GENERAL NOTES APPLY TO ALL ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL AND SPECIAL SYSTEMS SPECIFICATIONS AND REQUIREMENTS.

THE CITY OF LEE'S SUMMIT, MO.

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS ADOPTED BY
- PROVIDE PULL BOXES AS REQUIRED TO PROPERLY INSTALL THE RACEWAYS AND CIRCUITS INDICATED. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL

ROOM INTERIOR ELEVATIONS. COORDINATE EXACT

- DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH ROT-PROOF PULL-TAPE, LABELED AT EACH END. ALL CONDUITS SHALL BE PROVIDED WITH PLASTIC BUSHINGS
- ARCHITECT: WHERE TERMINATED OPEN-ENDED. COORDINATE ALL WIRING DEVICE LOCATIONS SHOWN AT MILLWORK LOCATIONS WITH THE MILLWORK CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO
- ANY ROUGH-IN OR INSTALLATION. ALL WIRING DEVICES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS AND SHALL NOT BE CONCEALED. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-
- RESISTANCE RATING OF ASSEMBLY, REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS. EACH CONTRACTOR AND SUB-CONTRACTOR OR TRADE
- IS REQUIRED TO REVIEW THE CONSTRUCTION DOCUMENTS AS A WHOLE, INCLUDING ALL OTHER TRADES' DRAWINGS AND PROVIDE ANY MISC. ITEMS, MATERIALS, WORK, ETC. REQUIRED TO COMPLETE THE WORK AS SHOWN ON ALL DOCUMENTS. THIS REQUIREMENT APPLIES TO ALL TRADES. STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, EQUIPMENT VENDORS, ETC. REQUIREMENTS AND RELATED WORK ARE INDICATED THROUGHOUT THE DOCUMENTS AND SHOULD BE REVIEWED WITH THE SPECIFIC MEP, STRUCTURAL, ARCHITECTURAL, AND EQUIPMENT DRAWINGS FOR OVERALL SCOPE OF WORK.
- REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY OF ALL MECHANICAL EQUIPMENT AND FIRE/SMOKE AND/OR SMOKE DAMPERS. LOCATIONS AND QUANTITY SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE AND MAY NOT REFLECT FINAL POSITION OR QUANTITY.
- ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT. WHERE EQUIPMENT IS SHOWN ON THE MECHANICAL PLANS, BUT NOT SHOWN ON THE ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE EQUIPMENT BASED ON EQUIPMENT REQUIREMENTS AND INCLUDE ALL COSTS IN THE BASE BID.
- LOCATION SHOWN OF ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT IS SCHEMATIC AND MAY NOT REFLECT ACTUAL CONNECTION POINTS. ROUGH-IN AND CONNECTION TO FQUIPMENT SHALL BE PER THE EQUIPMENT MANUFACTURER'S REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED FOR MOUNTING OF DISCONNECTING MEANS, VERIFY ALL ROUGH-IN REQUIREMENTS WITH THE MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-
- PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING ANY CORD AND PLUG SETS FOR EQUIPMENT NOT PROVIDED WITH IT (WHETHER SPECIFICALLY NOTED OR NOT). COORDINATE ALL WORK WITH THE EQUIPMENT SUPPLIER AND OWNER; AND VERIFY ALL ROUGH-IN LOCATIONS AND REQUIREMENTS PRIOR TO ANY ROUGH-
- THERMOSTATS AND ALL ASSOCIATED LOW VOLTAGE CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUIT, BOXES, ETC. FOR THE INSTALLATION OF THERMOSTATS. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND CONNECTION OF THE THERMOSTATS AND ALL CONTROL WIRING. REFER TO MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.
- PROVIDE UNSWITCHED HOT FROM NEAREST CIRCUIT TO EXIT SIGNS AND EMERGENCY FIXTURES.
- CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY AND ARRANGE FOR ELECTRICAL 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.

GENERAL NOTES:

FOR ALL ELECTRICAL QUESTIONS CONTACT RTM ENGINEERING CONSULTANTS, 417-881-0020. CONTACT PERSON: TYLER ENSERRO. tyler.enserro@rtmec.com

PROJECT INFORMATION: **Andy's Frozen Custard #204**

 $\sim\sim\sim\sim\sim\sim\sim\sim$ 630 NW Chapman Rd

Lee's Summit, MO 64806 OWNER ANDY'S FROZEN CUSTARD 211 E. Water Street

HUFFT 3612 Karnes Boulevard Kansas City, MO 64111 P: 816-531-0200

Springfield, MO 65807 P: 417-890-8002

www.hufft.com STRUCTURAL METTEMEYER ENGINEERING,

210 W. Chesterfield Blvd., Suite B105

PHELPS ENGINEERING INC

1270 N Winchester St #5878

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LANDSCAPE ARCHITECT: PHELPS ENGINEERING INC

1270 N Winchester St #5878

05-02-2024

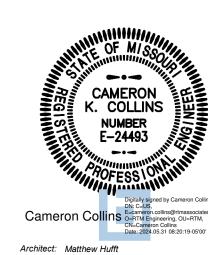
REVISION SCHEDULE: DATE

05-30-2024 AD 01

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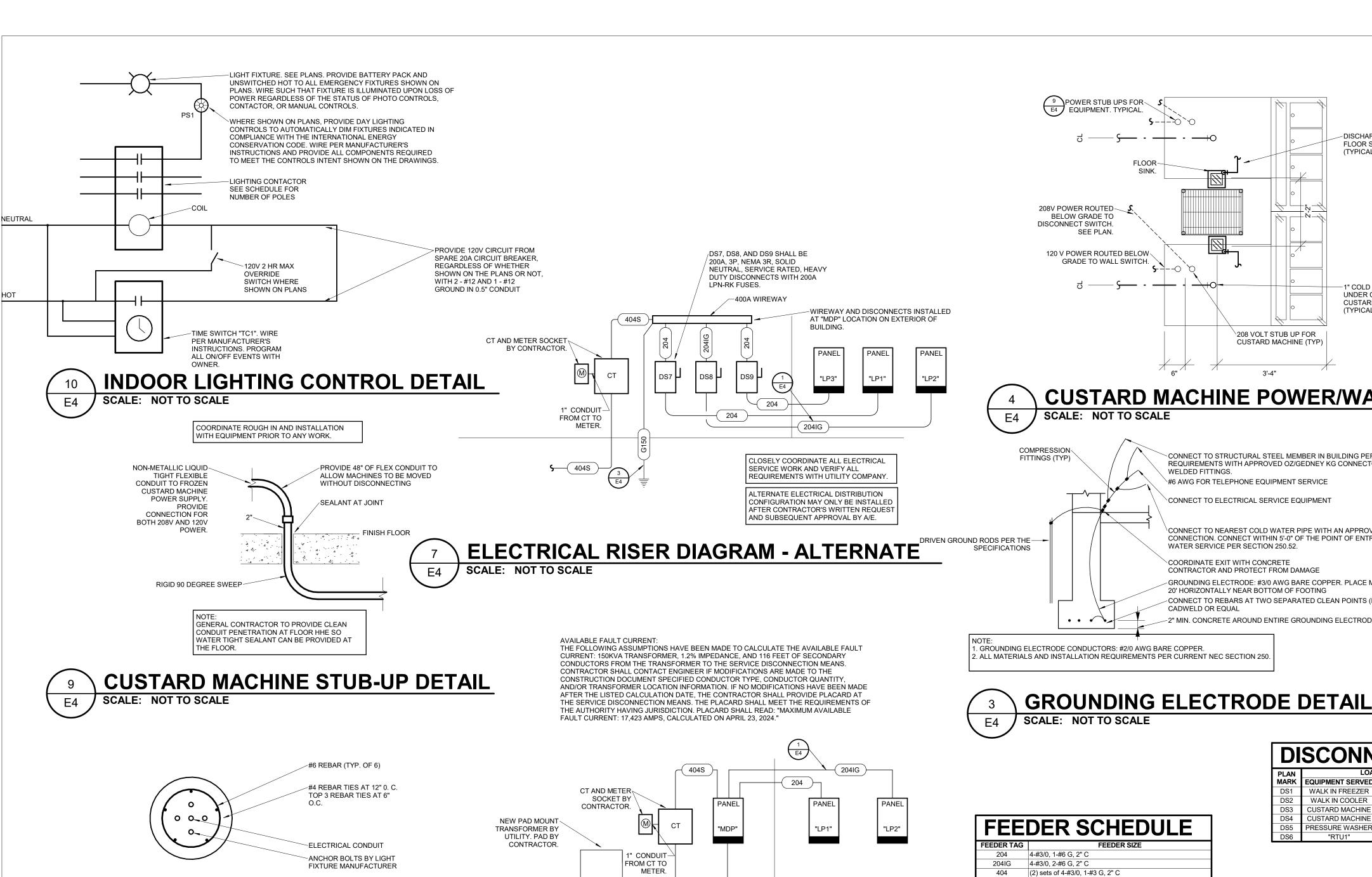
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License Number: MO# Drawn Author **₽**yöject Number: 736

SPECIAL SYSTEMS PLAN



(BOND GROUNDING CONDUCTOR

TO GROUND LUG IN LIGHT

1" GROUT COVER

ELECTRICAL CONDUIT

SMOOTH RUB FINISH

-GALVANIZED CONCRETE

ANCHOR BOLTS SUPPLIED

BY LIGHT POLE MANUFACTURER

-18" DIAMETER #4 REBAR TIES SPACED AT 12" O.C., TOP 3 REBAR

CONDUIT DEPTH SHALL BE AS REQUIRED BY THE NATIONAL **ELECTRIC CODE, SECTION 300.5**

CONCRETE

SPACE AT 6" O.C.

-#6 REBAR (TYP. OF 6)

POLE AND LIGHTING FIXTURE)

POLE BASE COVERS

SHALL BE PROVIDED

SHALL BE BY THE

#6 BARE COPPER

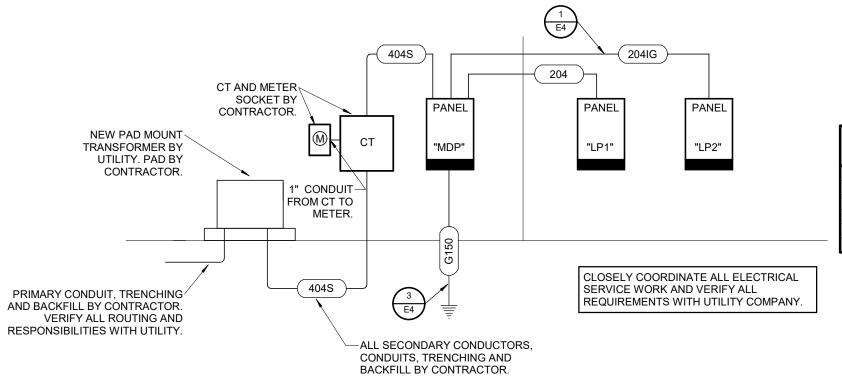
GROUND

3/4"x8' COPPER GROUND ROD

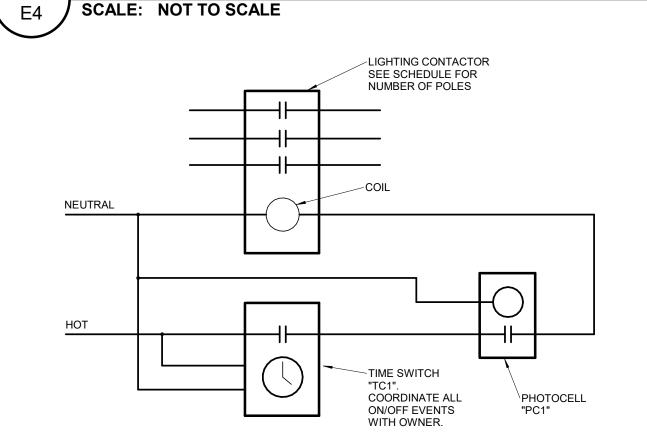
SCALE: NOT TO SCALE

BY THE E/C. COVERS

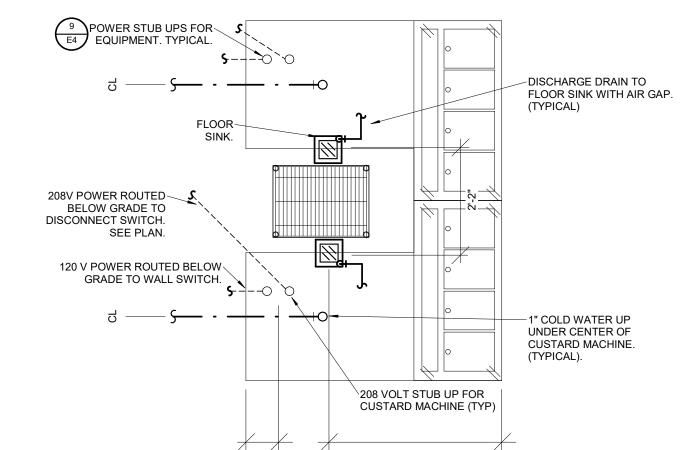
POLE MANUFACTURER.

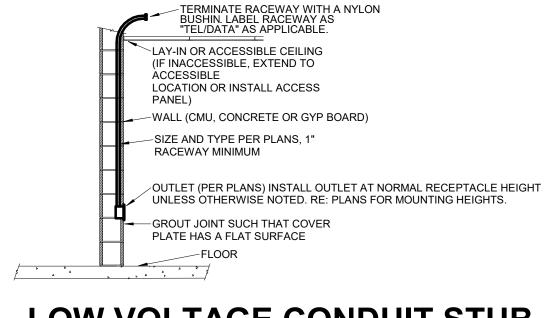


ELECTRICAL RISER DIAGRAM - BASE BID



OUTDOOR LIGHTING CONTROL DETAIL LIGHT POLE BASE DETAIL E4 SCALE: NOT TO SCALE

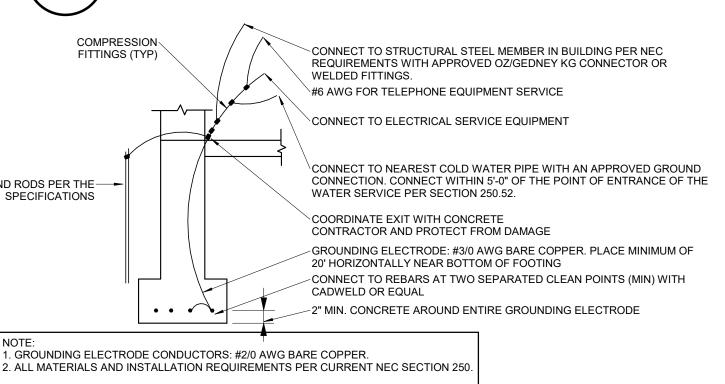




LOW VOLTAGE CONDUIT STUB UP IN ACCESSIBLE CEILING

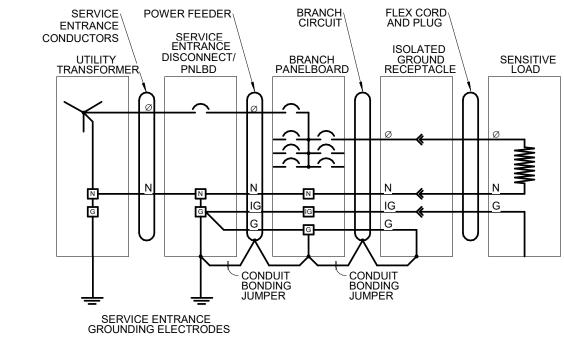
SCALE: NOT TO SCALE

CUSTARD MACHINE POWER/WATER DETAIL SCALE: NOT TO SCALE



(2) sets of 4-3/0, 2" C #2/0 COPPER GEO

marycooper@mzltg.com, (913) 438-4546 FOR PRICING AND ORDERING INFORMATION.



ISOLATED GROUND CONDUCTOR WIRING TO SERVICE ENTRANCE DETAIL

E4 / SCALE: NOT TO SCALE

DI	DISCONNECT SCHEDULE												
PLAN	LOAD			SWITCH			JSE	ENCLOSURE					
MARK	EQUIPMENT SERVED	VOLTAGE	DUTY	AMP	POLES	AMP	TYPE	NEMA TYPE	NOTES				
DS1	WALK IN FREEZER	208	GD	30	2	30	LPN-RK	NEMA 3R					
DS2	WALK IN COOLER	208	GD	60	2	35	LPN-RK	NEMA 3R					
DS3	CUSTARD MACHINE	208	GD	60	3	60	LPN-RK	NEMA 1					
DS4	CUSTARD MACHINE	208	GD	60	3	60	LPN-RK	NEMA 1					
DS5	PRESSURE WASHER	208	HD	60	3			NEMA 1					
DS6	"RTU1"	208	HD	60	3	50	LPN-RK	NEMA 3R					

REFER TO ALTERNATE RISER DIAGRAM FOR DISCONNECT SWITCHES PROVIDED UNDER ALTERNATE ELECTRICAL DISTRIBUTION CONFIGURATION.

LI	GHTIN	G DEVICE	SCHE	EDUL	E
PLAN MARK	MOUNTING TYPE	MANUFACTURER	MODEL	FINISH	NOTES
OC1	CEILING	WATTSTOPPER	DT-305	(WHITE)	(LOW VOLTAGE DUAL TECH CEILING OCCUPANCY SENSOR PROGRAMMED TO AUTO ON/AUTO OFF.)
PS1	CEILING	LEVITON	PCC2D-00W	WHITE	LINE VOLTAGE 0-10V DIMMING 2-ZONE DAYLIGHT SENSOR.
VA1	CEILING	WATTSTOPPER	DT-305	WHITE	DUAL TECHNOLOGY VACANCY SENSOR.
PP1	PLENUM	WATTSTOPPER	BZ-200		LIGHTING AND PLUG LOAD CONTROLLER. INSTALL IN ACCESSIBLE CEILING AREA.
OC1	WALL	WATTSTOPPER	DW-100	(WHITE)	(LINE VOLTAGE DUAL TECH OCCUPANCY SWITCH PROGRAMMED TO AUTU ON/AUTO OFF)

PLAN						LUMINAIRE	SOURCE		ELECT	RICAL	
	MANUFACTURER	MODEL	MOUNTING TYPE	FINISH	SOURCE TYPE	LUMENS	COLOR TEMP (K)	CRI	VOLTAGE	LOAD (VA)	NOTES
EMR	H.E. WILLIAMS	WETDRHL-T-BLK	SURFACE	WHITE	LED				120	5	REMOTE EGRESS FIXTURE POWERED THRU EXIT SIGN "X2"
L1	H.E. WILLIAMS	MX2S-4-L8/850-F-L6-DIM-UNV	SURFACE	WHITE	LED	2400	5000	80	120	26	PROVIDE WITH CUSTOM LUMEN PACKAGE AS SHOWN
L1E	H.E. WILLIAMS	MX2S-4-L8/850-F-L6-EM/10WLP-DIM-U NV	SURFACE	WHITE	LED	2400	5000	80	120	26	PROVIDE WITH CUSTOM LUMEN PACKAGE AS SHOWN. PROVIDE WITH INTEGRAL 90 MIN EMERGENCY BATTERY BACKUP.
L2	H.E. WILLIAMS	MX4IP-4-L7/850-S-F-L6-DIM-UNV	SURFACE	WHITE	LED	2400	5000	80	120	23	PROVIDE WITH CUSTOM LUMEN PACKAGE AS SHOWN
L3	H.E. WILLIAMS	96-4-L40/840-PCFR-DIM-UNV	SURFACE	WHITE	LED	4000	4000	80	120	30	INSTALL IN WALK-IN COOLER/FREEZER IN A MANNER APPROVED BY REFRIGERATION EQUIPMENT MANUFACTURER.
RF14	H.E. WILLIAMS	LPT-24-L75/850-SAF12095-(L50)-INVE RTED LENSE-DIM-UNV	RECESSED	WHITE	LED	5000	5000	80	120	40	CUSTOM LUMEN PACKAGE. PROVIDE WITH DRYWALL TRIM KIT IN LOCATIONS WHERE INSTALLED IN GYP CEILINGS.
RF14E	H.E. WILLIAMS	LPT-24-L75/850-SAF12095-EM/10W-(L5 0)-INVERTED LENSE-DIM-UNV	RECESSED	WHITE	LED	5000	5000	80	120	40	CUSTOM LUMEN PACKAGE. PROVIDE WITH INTEGRAL 90 MIN EMERGENCY BATTERY PACK.
RH09	H.E. WILLIAMS	6DR-TL-L20/840-DIM1-UNV-OW-OF-CS -N-F1	RECESSED	WHITE	LED	2000	4000	80	120	19	
RH09E	H.E. WILLIAMS	6DR-TL-L20/840-EM/7W-DIM1-UNV-OW -OF-CS-N-F1	RECESSED	WHITE	LED	2000	4000	80	120	19	PROVIDE WITH INTEGRAL 90 MIN EMERGENCY BATTERY PACK.
RH10	HALO	SLD612840WHUNVJB	RECESSED	WHITE	LED	1215	4000	80	120	14	
SL1	VISTA PROFESSIONAL	1188-GT-NS-40-B-MV-CX-010	IN GRADE	STAINLESS STEEL	LED	2000	4000	80	120	31	RECESSED IN GRADE FLAG POLE FIXTURE.
SP3	US ARCHITECTURAL	RZRM-PLED-III-48LED-700MA-50K-120 -1-RAL-8019-T-HS-PLED	POLE	DARK BRONZE	LED	14000	5000	80	120	105	PROVIDE WITH 16' (18'-6" TOTAL HEIGHT INCLUDING CONCRETE BASE) POLE BY FIXTURE MANUFACTURER.
SP4	US ARCHITECTURAL	RZRM-PLED-IV-48LED-700MA-50K-120 -1-RAL-8019-T-HS-PLED	POLE	DARK BRONZE	LED	14000	5000	80	120	105	PROVIDE WITH 16' (18'-6" TOTAL HEIGHT INCLUDING CONCRETE BASE) POLE BY FIXTURE MANUFACTURER
WF08	H.E. WILLIAMS	75S-2-L42/940-EM/10WRM-DIM-UNV	WALL	WHITE	LED	4000	4000	80	120	32	PROVIDE WITH 16' (18'-6" TOTAL HEIGHT INCLUDING CONCRETE BASE) POLE BY FIXTURE MANUFACTURER.
Χ	H.E. WILLIAMS	EXIT-R-EM-WHT-SDT-D	UNIVERSAL	WHITE	LED				120	5	
X2	H.E. WILLIAMS	EXIT/REMOTE-R-WHT-D-WETDRHL-T- BLK	UNIVERSAL	WHITE	LED				120	5	PROVIDE WITH FIXTURE TYPE "EMR" WHERE SHOWN ON PLANS. PROVIDE WALL OR CEILING MOUNT AS REQUIRED B'THE PLANS.

Hufft

PROJECT INFORMATION: Andy's Frozen Custard #204

630 NW Chapman Rd Lee's Summit, MO 64806 OWNER ANDY'S FROZEN CUSTARD 211 E. Water Street

ARCHITECT: HUFFT

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LANDSCAPE ARCHITECT: PHELPS ENGINEERING INC

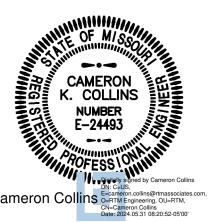
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05-02-2024

REVISION SCHEDULE DATE 05-30-2024 AD 01

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Architect: Matthew Hufft License Number: MO# Drawn TSE **₽**Yöject Number: 736

ELECTRICAL SCHEDULES AND DETAILS

Р	ANELBOARD NOTES
GENERAL NOT	
1	PROVIDE 20 AMP 1-POLE SPARE BREAKERS FOR ALL UNUSED POLES UNLESS NOTED OTHERWISE.
2	
3	
CIRCUIT BREAK	KER ACCESSORY ABBREVIATION
AC	AUXILIARY CONTACTS
AF	ARC-FAULT INTERRUPTING
AT	ALARM TRIP
EPD	EQUIPMENT PROTECTION DEVICE
EX	EXISTING CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT INTERRUPTING BREAKER
HACR	HACR RATING
HLF	HANDLE LOCK-OFF
HLN	HANDLE LOCK-ON
SR	SWITCH RATING
ST	SHUNT TRIP BREAKER
PANELBOARD A	ACCESSORY ABBREVIATION
CH	CONCEALED HINGE
CL	COMPRESSION LUGS
CW	COLUMN WIDTH PANEL
DD	HINGED DOOR WITHIN A DOOR
EGB	EXTENDED GUTTER BOTTOM
EGL	EXTENDED GUTTER LEFT
EGR	EXTENDED GUTTER RIGHT
EGT	EXTENDED GUTTER TOP
FL	FLUSH LOCK(S)
FTL	FEED-THRU LUGS
GB	EQUIPMENT GROUND BAR
GBI	GROUND BAR INSULATOR
NBK	NEUTRAL BOND KIT
SER	SERVICE ENTRANCE RATING
SFB	SUB-FEED CIRCUIT BREAKER
SFL	SUB-FEED LUGS
SGB	SECOND GROUND BAR KIT
SPD	SURGE PROTECTION DEVICE
TRN	200% RATED NEUTRAL BAR

	PANEL NAME: "LP2"			FED	ON: B BY: "N NG: R	MDP)"			М	ENC ANUFA	OLTAG LOSUR CTURE EL TYP	E: NEN R: SQL	/A 1		, 4W		I	BUS RA	AIN TYPE: MLO ATING (A): 225 A ATING (A): MLO ATING (A): 22000	
СКТ	LOAD DESCRIPTION	С	w	G	СВ	P 1	TYPE	,	A	ı	В	(;	TYPE	Р	СВ	G	w	С	LOAD DESCRIPTION	СКТ
1	DOOR CHIME	0.75"	#12	#12	20	1		100	200						1	15	#12	#12	0.75"	RECIRC PUMP	2
3	LTG - SITE	0.75"	#10	#10	20	1				210	200				1	20	#12	#12	0.75"	FASCIA LIGHTING ANIMATOR	4
5	REC - BOH	0.75"	#12	#12	20	1						180	240	GF	1	20	#12	#12	0.75"	INTERIOR SIGNAGE	6
7	FASCIA LIGHTING	0.75"	#12	#12	20	1		330	500						1	20	#10	#10	0.75"	MENU SIGNAGE	8
9	FASCIA LIGHTING	0.75"	#12	#12	20	1				330	765				1	20	#12	#12	0.75"	LTG - CANOPY	10
11	REC - MANAGER'S OFFICE	0.75"	#12	#12	20	1	IG					360	500		1	20	#12	#12	0.75"	DIRECTIONAL SIGNAGE	12
13	INFRARED HEATERS	0.75"	#12	#12	15	1		0	240						1	20	#12	#12	0.75"	POSTER AND LOGO SIGNS	14
15	FASCIA LIGHTING	0.75"	#12	#12	20	1				990	1400				1	20	#12	#12	0.75"	LTG - INTERIOR	16
17	REC - EXTERIOR	0.75"	#12	#12	20	1						720	1220		1	20	#12	#12	0.75"	REC - MANGER'S OFFICE	18
19	REC - DRIVE THRU POS	0.75"	#12	#12	20	1 I	G,GF	1080	180						1	20	#12	#12	0.75"	VEGAS SIGN	20
21	WATER HEATERS	0.75"	#12	#12	20	1				360	360				1	20	#12	#12	0.75"	REC - RESTROOMS	22
23	POSTER AND LOGO SIGNS	0.75"	#12	#12	20	1						240	180		1	20	#12	#12	0.75"	WATER SOFTENER	24
25	REC - MANAGER'S OFFICE	0.75"	#12	#12	20	1	IG	360	1200						1	20	#10	#10	0.75"	MONUMENT SIGNAGE	26
27	PERIMETER COVE LIGHTS	0.75"	#12	#12	20	1				500	180				1	20	#12	#12	0.75"	NEON SIGN CONTROLLER	28
29	REC - TELE/DATA	0.75"	#12	#12	20	1						360	500		1	20	#12	#12	0.75"	PERIMETER COVE LIGHTS	30
31	IRRIGATION CONTROLLER	0.75"	#12	#12	20	1		180	1200						1	20	#12	#12	0.75"	REC - TELE/DATA	32
33	REC - MANAGER'S OFFICE	0.75"	#12	#12	20	1	IG			540	330				1	20	#12	#12	0.75"	DRIVE THRU SIIGN	34
35	PATIO SIGNAGE	0.75"	#12	#12	20	1						500	540	IG,GF	1	20	#12	#12	0.75"	REC - POS	36
37	REC - MANAGER'S OFFICE	0.75"	#12	#12	20	1	IG	540	62						1	20	#12	#12	0.75"	FLAG POLE LIGHTS	38
39	FASCIA LIGHTING	0.75"	#12	#12	20	1				1320	720			IG,GF	1	20	#12	#12	0.75"	REC - MONITORS	40
41	MENU BOARD	0.75"	#10	#10	20	1						500	500		1	20	#10	#10	0.75"	DIRECTIONAL SIGNAGE	42
43	FASCIA LIGHTING	0.75"	#12	#12	20	1		1320	250						1	20	#12	#12	0.75"	ANDYS BEAM SIGN	44
45	SECURITY SYSTEM	0.75"	#12	#12	20	1				400	0				1	20				SPARE	46
47	FASCIA LIGHTING	0.75"	#12	#12	20	1						1320	0		1	20				SPARE	48
49	SPARE				20	1		0	0						1	20				SPARE	50
51	SPARE				20	1				0	0				1	20				SPARE	52
53	SPARE				20	1						0	0		1	20				SPARE	54
		C	CONNEC	CTED	PHAS	EL	OAD	7742	2 VA	860	5 VA	7860) VA							ATER DANIEL AMPO	
		*F	PHASE I	DIVEF	RSIFIE	DL	OAD	8048	8 VA	894	5 VA	8170) VA					(ALCUL	ATED PANEL AMPS:	
		*F	PHASE I	DIVER	RSIFIE	DΑ	MPS	67	7 A	75	5 A	68	Α							93 A	1
														DIVERS	SIFI	FD I	OAD	S CALC	UI ATEC	PER THE NATIONAL ELECTRIC	CODE)
NOTE	S/ACCESSORIES:													DIVERC	JII I		-0/10	OONLO	OL/ (TLL	PANEL TOTALS	<u> </u>
	DVIDE SPARE 20A, SINGLE-POLI	= BREAKE	ERS IN A	ΔΙΙ ΙΙ	NUSE	פ ח	PACE	:S									TOTA	AL CONI	VECTE	D LOAD: 24207 VA	
	LATED GROUND KIT		_1 (0 114 /	LL U	INCOL	<i>-</i> 0	1 AUL									_				D LOAD: 25163 VA	
ان د.	TALED OLYGONAD IVII																				

TI	ME SWI	TCH S	SCHED	ULE					
PLAN	LOAD				SWITCH				
MARK	EQUIPMENT SERVED	VOLTAGE	MANUFACTURER	MODEL	TYPE	AMP	POLES	ENCLOSURE	NOTES
TC1	CONTACTORS "LC1", "LC2", "LC3", AND "LC4"	120	ITNERMATIC	ET2145C	SPST	20	4	NEMA 1	

	GHTING	CC	NTACT	OR S	SCH	IEDU	LE		
PLAN	LOAD			COI	NTACTOR			INT	ERLOCK
MARK	EQUIPMENT SERVED	VOLTAGE	TYPE	AMPERAGE	POLES	NEMA RATING	NOTES	CONTROL TYPE	CONTROLLED BY
LC1	INTERIOR LIGHTING	120	NORMALLY OPEN ELECTRICALLY HELD	20	4	NEMA 1		120V Coil	"TC1"
LC2	EXTERIOR LIGHTS/SIGNS	120	NORMALLY OPEN ELECTRICALLY HELD	20	12	NEMA 1		120V Coil	"TC1"
LC3	SIGNAGE	120	NORMALLY OPEN ELECTRICALLY HELD	20	20	NEMA 1		120V Coil	"TC1"
LC4	SITE LIGHTING	120	NORMALLY OPEN ELECTRICALLY HELD	20	4	NEMA 1		120V Coil	"TC1"

NOTES:
PROVIDE ALL CONTACTORS IN A SINGLE NEMA 1 ENCLOSURE. PROVIDE QUANTITY OF CONTACTORS REQUIRED TO MEET THE NUMBER OF POLES LISTED IN THE SCHEDULE.

	CIRCUIT BREAKER PANELBOARD SCHEDULE																				
	PANEL NAME:		LC	CATIO	ON:	BAk	KING 10)4			V	OLTAG	E : 120	/208V,	3Ph	ı, 4W	,		М	AIN TYPE: MLO	
	"LP1"			FED I	BY: '	7: "MDP" ENCLOSURE: NEMA 1												BUS R	ATING (A): 225 A		
			MC	UNTIN	NG:	REC	CESSE	D		M	ANUFA	CTURE	R: SQL	JARE [)				MCB R	ATING (A): MLO	
											PAN	EL TYP	E: NQ					MIN.	AIC R	ATING (A): 22000	
СКТ	LOAD DESCRIPTION	С	w	G	СВ	ВР	TYPE	,	A	В		С		TYPE	Р	СВ	G	w	С	LOAD DESCRIPTION	СКТ
1	E17 - MILK DISPENSER	0.75"	#12	#12	20	1	GF	144	504					GF	1	20	#12	#12	0.75"	E34A - FUDGE WARMER	2
3	REC - CONVENIENCE	0.75"	#12	#12	20	1	GF			180	252			GF	1	20	#12	#12	0.75"	E23 - BLENDER	4
5	E42 - DROP IN FREEZER	0.75"	#12	#12	20	1	GF					936	252	GF	1	20	#12	#12	0.75"	E23 - BLENDER	6
7	SPARE				20	1		0	504					GF	1	20	#12	#12	0.75"	E34A - FUDGE WARMER	8
9	E36 - DRAFT BEER DISPENSER	0.75"	#12	#12	20	1	GF			312	540			GF	1	20	#12	#12	0.75"	E44 - U/C REFRIGERATOR	10
11	E34C - FUDGE WARMER	0.75"	#12	#12	20	1	GF					348	540		1	20	#12	#12	0.75"	REC - CONVENIENCE	12
13	REC - CONVENIENCE	0.75"	#12	#12	20	1		720	1032					GF	1	20	#12	#12	0.75"	E34E - FUDGE WARMER	14
15	REC - FRONT WINDOW SIGNAGE	0.75"	#12	#12	20	1				720	180			GF	1	20	#12	#12	0.75"	RTU RECEPTACLE	16
17	E7 - ICE MAKER WITH BIN	0.75"	#12	#12	20	1	GF					1572	936	GF	1	20	#12	#12	0.75"	E38 - REACH IN FREEZER	18
19	E40 - DROP IN FREEZER	0.75"	#12	#12	20	1	GF	192	1200					GF	1	20	#12	#12	0.75"	E25 - WAFFLE MAKER	20
21	E41 - COFFEE MAKER	0.75"	#12	#12	20	1	GF			1572	1500				1	20	#12	#12	0.75"	TIMED DEFROST HEATER	22
23	E25 - WAFFLE MAKER	0.75"	#12	#12	20	1	GF					1200	1800	GF	1	20	#12	#12	0.75"	E4 - WASHER/DRYER	24
25	E27 - DRINK MIXER	0.75"	#12	#12	20	1	GF	1368	2080					GF	2	30	#10	#10	0.75"	DRYER	26
27	E34E - FUDGE WARMER	0.75"	#12	#12	20	1	GF			504	2080										28
29	E34A - FUDGE WARMER	0.75"	#12	#12	20	1	GF					504	1500	GF	1	20	#12	#12	0.75"	FREEZER HEAT TRACE	30
31	E10 - HIGH TEMP WAREWASHER	0.75"	#8	#1	40	2	GF	2262	1620					GF	2	35	#10	#8	0.75"	E8 - CONVECTION OVEN	32
33										2262	1620										34
35	E26 - MICROWAVE	0.75"	#12	#12	20	1	GF					1608	897	GF	1	20	#12	#12	0.75"	CUSTARD MACHINE	36
37	AUTOMATIC DRIVE THRU WINDOW	0.75"	#12	#12	20	1		360	897					GF	1	20	#12	#12	0.75"	CUSTARD MACHINE	38
39	E32 - REFRIGERATOR	0.75"	#12	#12	20	1	GF			1032	1000			GF	1	20	#12	#12	0.75"	FREEZERS	40
41	E33 - WORKTOP REFRIGERATOR	0.75"	#12	#12	20	1	GF					1032	0		1	20				SPARE	42
43	SPARE				20	1		0	0						1	20				SPARE	44
45	SPARE				20	1				0	0				1	20				SPARE	46
47	SPARE				20	1						0	0		1	20				SPARE	48
49	SPARE				20	1		0	0						1	20				SPARE	50
51	SPARE				20	1				0	0				1	20				SPARE	52
53	SPARE				20	1						0	0		1	20				SPARE	54
-		(CONNE	CTED	PHA	SE	LOAD	1288	33 VA	1375	4 VA	1312	.5 VA				· · · · · ·			ATER RANGE ALTRO	
		*F	PHASE	DIVER	RSIFI	ED	LOAD	895	8 VA	956	4 VA	912	7 VA					(SALCU	LATED PANEL AMPS:	l
		*F	PHASE	DIVER	RSIFI	ED	AMPS		5 A) A		6 A	1						100 A	
		•		··					-		• • =			⊥ DIVER	L— SIF	IED I	OAD	S CALC	ULATE	D PER THE NATIONAL ELECTRIC	CODE.)
NOTE	ES/ACCESSORIES:												`							PANEL TOTALS	
	OVIDE SPARE 20A, SINGLE-POLE	BREAKI	ERS IN	ALL U	NUS	ED	SPACE	S.									TOTA	AL CON	NECTE	D LOAD: 39762 VA	
	,		•••			_														D LOAD: 27649 VA	
																-					

CONTROLLING LOAD: N/A

	PANEL NAME:	VOLTAGE: 120/208V, 3Ph, 4	W												
		FED BY: SERVICE	BUS RATING (A): 400 A												
	"MDP"	LOCATION: EXTERIOR	MCB RATING(A): 400 A												
		ENCLOSURE: NEMA 3R	MIN. AIC RATING (A): 22000 A												
		MOUNTING: SURFACE BREAKER MOUNTING SPACE: 66 in	MANUFACTURER / TYPE: SQUARE D / I-LINE												
СКТ		LOAD DESCRIPTION	TYPE	С	W	G	Р	СВ	Α	В	С				
1	PANEL "LP1"						3	200 A	12883 VA	13754 VA	13125 V				
2	PANEL "LP2"						3	200 A	7742 VA	8605 VA	7860 VA				
3	PRESSURE WASHER			0.75"	#8	#10	3	40 A	3759 VA	3759 VA	3759 VA				
4	WALK IN COOLER COI	L		0.75"	#12	#12	1	20 A		300 VA					
5	WALK IN FREEZER CC	IL		0.75"	#12	#12	2	20 A	620 VA		620 VA				
6	CUSTARD MACHINE			1.25"	#4	#8	3	60 A	3603 VA	3603 VA	3603 VA				
7	CUSTARD MACHINE			1.25"	#4	#8	3	60 A	3603 VA	3603 VA	3603 VA				
8	"RTU1"			1"	#6	#8	3	50 A	5044 VA	5044 VA	5044 VA				
9	E51.2 - WALK IN FREE	ZER		0.75"	#10	#10	2	30 A	2495 VA	2495 VA					
10	E50.2 - WALK IN COOL	ER		0.75"	#8	#10	2	35 A	2900 VA		2900 VA				
11															
12															
13															
14															
15															
OTES/A	CCESSORIES:				C	ONNEC	TED PH	IASE LOAD:	42648 VA	41162 VA	40513 V				
EFEREN	ICE ELECTRICAL RISER I	DIAGRAM FOR FEEDER SIZES BETWEEN PANELS.			P	HASE D	IVERSI	FIED LOAD:	36225 VA	34963 VA	34412 V				
					P	HASE D	IVERSI	FIED AMPS:	303 A	292 A	292 A				
					C.4	1 (1) 4	TED D	NEL AMPS:		270 ^					
					СА			_	378 A						
						CO	NTROL	LING LOAD:	: N/A						

UNDER ALTERNATE ELECTRICAL DISTRIBUTION CONFIGURATION, ALL BRANCH CIRCUITS FED FROM PANEL "MDP" SHALL BE FED FROM PANEL "LP3". PANEL "LP3" SHALL BE EQUAL TO SQUARE D MODEL NQ, 120/208V, 3PH, 4W, 225A MLO, 42 CKT, 22kA AIC, WITH RECESSED MOUNTING KIT. PROVIDE SPARE 20A, 1P BREAKERS IN ALL UNUSED SPACES.

Hufft

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100% CDs 05-02-2024

REVISION SCHEDULE:

NO. DATE ISSUE

1 05-30-2024 AD 01

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Architect: Matthew Hufft License Number: MO# Drawn TSE ₱Yöject Number: 736

ELECTRICAL SCHEDULES

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