# ★ COMING SOON ★

TSC TRACTOR SUPPLY Co

---- THE STUFF YOU NEED OUT HERE----

www.tractorsupply.com

# TSC Store # 3178



## PROJECT INFORMATION

**PROJECT NAME:** TSC Store # 3178

**PROJECT ADDRESS:** 465 Coors Blvd NW Albuquerque NM

**PARCEL IDENTIFICATION:** 101005847008240613

**PARCEL ZONING CATEGORY:** NR-BP NON-RESIDENTIAL BUSINESS PARK

**PROJECT SCOPE:**

AN INTERIOR REMODEL FOR TRACTOR SUPPLY CO. FROM AN EXISTING BIG LOTS STORE. EXTERIOR FACADES WILL RECEIVE NEW PAINT. PARKING AREA TO RECEIVE MINOR UPGRADES.

EXISTING SIGNS WILL BE REMOVED AND NEW TRACTOR SUPPLY CO. SIGNS WILL BE ADDED. SIGNAGE SCOPE IS BY THE OWNER AND WILL BE SUBMITTED AS A SEPARATE PERMIT.

THIS REMODEL DOES NOT DECREASE OR INCREASE THE EXISTING BUILDING FOOTPRINT, NOR DOES IT CHANGE THE CURRENT OCCUPANCY.

## DEFERRED SUBMITTALS

THE FOLLOWING PORTIONS OF THE DESIGN SHALL BE SUBMITTED FOR APPROVAL BY THE AUTHORITIES HAVING JURISDICTION (AHJ) PRIOR TO INSTALLATION. THESE ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL AND OTHER AHJ OFFICIALS.

DEFERRED PERMITS:
EXTERIOR BUILDING SIGNAGE & APPLICABLE PYLON AND/ OR MONUMENT SIGNS ARE PROVIDED BY THE OWNER'S SIGN VENDOR AND SHALL BE SUBMITTED SEPARATELY BY THE OWNER'S SIGN VENDER. REFERENCES TO BUILDING SIGNAGE IN THIS PACKAGE IS FOR COORDINATION OF ELECTRICAL CONNECTIONS AND LIGHTING PROVIDED BY THE G.C.

DEFERRED SUBMITTALS

1. FIRE SPRINKLERS
2. FIRE ALARM
3. STAMPED STRUCTURAL DWGS. & CALCULATIONS FOR PRE-MANUF. METAL CANOPY AT PROPANE TANK (WHEN REQUIRED BY AHJ).

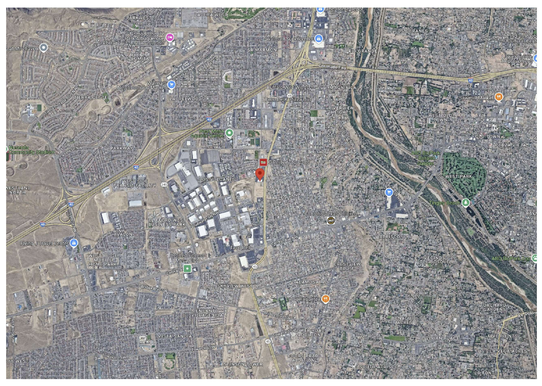
## BUILDING INFORMATION

| | |
|---|---|
| EXISTING BUILDING GROSS SQ. FOOTAGE: | 31,064 SQ. FT. |
| OCCUPANCY TYPE: | GROUP M - MERCANTILE |
| CONSTRUCTION TYPE: | II-B |
| NUMBER OF STORIES: | 1 - STORY |

SEE LIFE SAFETY PLAN FOR ADDITIONAL BUILDING INFORMATION.



**LOCATION MAP**



**VICINITY MAP**

465 Coors Blvd NW
Albuquerque NM

## Applicable Codes

***Anywhere USA***

| | |
|---|---|
| BUILDING CODE | 2021 INTERNATIONAL BUILDING CODE + NM AMENDMENTS |
| FIRE CODE | 2015 INTERNATIONAL FIRE CODE |
| PLUMBING CODE | 2021 INTERNATIONAL PLUMBING CODE + NM AMENDMENTS |
| MECHANICAL CODE | 2021 UNIFORM MECHANICAL CODE + NM AMENDMENTS |
| ELECTRICAL CODE | 2020 NATIONAL ELECTRICAL CODE + NM AMENDMENTS |
| ENERGY CODE | 2021 INTERNATIONAL ENERGY CONSERVATION CODE + NM AMENDMENTS |
| FUEL/GAS CODE | NM FUEL GAS CODE |
| EXISTING BLDG CODE | 2021 INTERNATIONAL EXISTING BUILDING CODE + NM AMENDMENTS |

***STATE/FEDERAL CODES***

| | |
|---|---|
| ACCESSIBILITY | 2021 IBC, 2017 ICC / ANSI A117.1 |

## Code Review

***BUILDING USE / OCCUPANCY***

| | |
|---|---|
| USE | Mercantile |
| OCCUPANCY CLASSIFICATION | M |
| OCCUPANCY LOAD | 404 |

***BUILDING CONSTRUCTION***

| | | |
|---|---|---|
| CONSTRUCTION TYPE | IIB | |
| | **ALLOWED** | **PROPOSED** |
| BUILDING HEIGHT | 65'-0" | 26' - 3" |
| NUMBER OF STORIES | 0 | 1 |
| SPRINKLERS REQUIRED | Yes | |
| **FIRE RESISTANCE RATING REQUIREMENTS** | **RATING REQUIRED** | **RATING PROVIDED** |
| STRUCTURAL FRAME | 0 hr | 0 hr |
| BEARING WALLS - EXTERIOR | 0 hr | 0 hr |
| BEARING WALLS - INTERIOR | 0 hr | 0 hr |
| NON-BEARING WALLS & PARTITIONS - EXTERIOR | 0 hr | 0 hr |
| NON-BEARING WALLS & PARTITIONS - INTERIOR | 0 hr | 0 hr |
| FLOOR CONSTRUCTION | 0 hr | 0 hr |
| ROOF CONSTRUCTION | 0 hr | 0 hr |

***PLUMBING FIXTURE COUNT***

| | | |
|---|---|---|
| | **MALE** | **FEMALE** |
| PLUMBING OCCUPANT LOAD | 202 | 202 |
| Male WC Factor: 1 per 500 Female WC Factor: 1 per 500<br>Male LAV Factor: 1 per 750 Female LAV Factor: 1 per 750 | REQUIRED | PROVIDED |
| WATER CLOSETS | **M:** 1 **W:** 1 | **M:** 2 **W:** 3 |
| LAVATORIES | **M:** 1 **W:** 1 | **M:** 2 **W:** 2 |
| URINALS SUBSTITUTED FOR WATER CLOSETS | ALLOWED | PROVIDED |
| Urinal for Water Closet Substitution Factor: 0.67 % | 0 | 1 |
| DRINKING FOUNTAINS | REQUIRED | PROVIDED |
| Drinking Fountain Factor: 1 per 1000 | 1 | 1 |
| SERVICE SINKS | REQUIRED | PROVIDED |
| | 1 | 1 |
| OTHER NOTES / EXCEPTIONS | - | |

## General Notes

| | |
|---|---|
| 1 | The Architect has made every effort to set forth in the contract documents the complete scope of work. The contractor is nevertheless cautioned that minor omissions and discrepancies in the drawings and specifications shall not excuse him from providing a completed facility and improvements in accordance with the intent of these documents. In the event of discrepancies, contractor shall price the more expensive and extensive work, unless directed otherwise. |
| 2 | Details are intended to show end result of design. Minor modifications may be required to suit job dimensions or conditions, and such modifications shall be included as part of the work. The drawings, general notes and specifications are complimentary, and what is called for by any will be binding as if called for by all. Work shown or referred to on any drawing shall be provided as though shown on all related drawings. If there is any conflict or discrepancy within or between any of the contract documents involving the quality or quantity of work required, the work of highest quality and/or greatest quantity shown or specified shall be furnished. |
| 3 | The contractor shall be responsible for becoming familiar with all contract documents and field conditions and confirm that the work may be accomplished as shown prior to proceeding with construction. |
| 4 | The contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the work under the contract. The contractor shall provide at the project site a full set of construction documents annotated with the latest revisions and clarifications for the use by all. |
| 5 | Conduct operations in such a manner as to minimize interference with use of public ways and adjacent used facilities. Do not close, block, or otherwise obstruct use of public ways or facilities without written consent of authorities having jurisdiction. Provide alternate routes to closed or obstructed facilities as required by local regulations. |
| 6 | Except where otherwise specified, the contractor shall at all times provide protection against weather to maintain all work, materials, apparatus, and fixtures from injury or damages. At the end of the day's work, all new work likely to be damaged shall be covered or otherwise protected as required. |
| 7 | The contractor shall be responsible for providing his own telephone and toilet for all scope of work. The contractor shall be responsible for providing all taps, extensions, valves, or other devices necessary to run power tools and equipment. Such modifications to existing utilities must be removed at completion of the project. |
| 8 | The contractor shall maintain at all times adequate safety barricades for protection of job personnel and the public and clear access in and out of the work site so as to facilitate daily traffic movement, deliveries, and safety. Remove barricades when no longer required. |
| 9 | Remove debris, rubbish, and other substances from site. Legally transport and dispose of such materials off-site. Burying or burning of "to be removed" materials on the project site is forbidden. |
| 10 | Cooperate with the applicable city or other government officials and inspectors at all times. If such official or inspector deems special inspection necessary, provide all assistance and facilities that will expedite his inspection. |
| 11 | All details of construction shall conform with the applicable codes |
| 12 | Provide high security surface mounted box w/ tamper switch (fire department key box) at the entrance. Three complete sets of keys must be provided. Keys must be provided for all rooms containing fire and life safety system controls. Prior to installation verify exact location and exact type of box required with local authority having jurisdiction. |
| 13 | Mount fire extinguishers listed in specifications at locations shown and/or directed by fire department code official having jurisdiction. |
| 14 | Install all manufactured items, materials, and equipment in strict accordance with manufacturer's recommended specifications, unless otherwise indicated or where local codes or regulations take precedence. All work performed and materials installed shall be in strict accordance, as a minimum standard, with all applicable codes, regulations and ordinances having jurisdiction. Contractor shall give all notices and comply with all laws, ordinances, rules, regulations, and lawful orders of any public authority bearing on the performance of the work. |
| 15 | Plans are not to be scaled. These plans are intended to be a diagrammatic outline only, unless noted otherwise. The work shall include furnishing materials, equipment and appurtenances, and labor necessary to affect all installations indicated on the drawings. The work shall also include all materials, detail and labor necessary for the successful installation of the work described herein. |

## Deferred Submittals

The following portions of the design shall be submitted for approval by the Authorities Having Jurisdiction (AHJ) prior to installation. These items shall not be installed until the deferred submittal documents have been approved by the building official and other AHJ officials.

Deferred Submittals
1. Fire sprinkler system
2. Fire alarm system

Deferred Permits:
1. Exterior building signage

## Special Inspections & Testing

The Owner shall employ one or more approved agencies to provide special inspections and tests. Provide reports to Building Department, General Contractor, Architect and Engineer in accordance with the IBC for the following:

| Section | Type of Special Inspection | Applicable | Continuous Inspection | Periodic Inspection |
|---|---|---|---|---|
| 1705.1.1 | Special cases | | | |
| 1705.2 | Steel Construction | Refer to Structural | | |
| 1705.3 | Concrete construction | Refer to Structural | | |
| 1705.4 | Masonry construction | Refer to Structural | | |
| 1705.5 | Wood construction | Refer to Structural | | |
| 1705.6 | Soils | Refer to Structural | | |
| 1705.7 | Driven deep foundation | Refer to Structural | | |
| 1705.8 | Cast-in-place deep foundations | Refer to Structural | | |
| 1705.9 | Helical pile foundations | Refer to Structural | | |
| 1705.10 | Fabricated items | Refer to Structural | | |
| 1705.11 | Special inspections for wind resistance | Refer to Structural | | |
| 1705.14 | Sprayed fire-resistant materials | | | |
| 1705.15 | Mastic & intumescent fire-resistant coatings | | | |
| 1705.16 | Exterior insulation & finish systems (EIFS) | | | |
| 1705.17 | Fire-resistant penetrations and joints | | | |
| 1705.18 | Testing for smoke control | Refer to Mechanical | | |

## Index of Drawings


| Sheet Number | Sheet Name | Current Revision | Current Revision Date |
|---|---|---|---|
| General | | | |
| A0.00 | COVER SHEET | 3 | 2025 12 22 |
| A0.10 | PROJECT NOTES | 1 | 2025 07 01 |
| A0.20 | ACCESSIBILITY SHEET | A | 2025 05 09 |
| A0.21 | ACCESSIBILITY SHEET | A | 2025 05 09 |
| A0.22 | SCOPE OF WORK | 1 | 2025 07 01 |
| A0.30 | SPECIFICATIONS - TSC CONCRETE / EPOXY SPEC. | B | 2025 08 29 |
| A0.31 | SPECIFICATIONS - SECTIONS 05 - 06 | A | 2025 05 09 |
| A0.32 | SPECIFICATIONS - SECTIONS 07 - 09 | A | 2025 05 09 |
| A0.33 | SPECIFICATIONS - SECTIONS 09 - 10 | A | 2025 05 09 |
| A0.40 | LIFE SAFETY PLAN | 3 | 2025 12 22 |
| AS1.00 | ARCHITECTURAL SITE PLAN | 3 | 2025 12 22 |
| AS1.01 | SITE PLAN DETAILS | B | 2025 08 29 |
| 12 | | | |
| Civil | | | |
| C001 | GRADING AND DRAINAGE PLAN | B | 2025 08 29 |
| C002 | SITE PLAN | B | 2025 08 29 |
| C003 | EXISTING CONDITIONS AND DEMOLITION PLAN | B | 2025 08 29 |
| 3 | | | |
| Structural | | | |
| S211 | FRAMING SECTIONS AND DETAILS | A | 2025 05 09 |
| 1 | | | |
| Demolition | | | |
| D1.01 | DEMOLITION PLAN | B | 2025 08 29 |
| D1.21 | REFLECTED CEILING DEMOLITION PLAN | 2 | 2025 xx xx |
| 2 | | | |
| Architectural | | | |
| A1.01 | LEVEL 1 FLOOR PLAN | B | 2025 08 29 |
| A1.02 | WALL TYPES | A | 2025 05 09 |
| A1.03 | ENLARGED DETAILS | B | 2025 08 29 |
| A1.11 | FLOOR FINISH PLAN & SCHEDULES | B | 2025 08 29 |
| A1.12 | INTERIOR ELEVATIONS | 2 | 2025 xx xx |
| A1.21 | REFLECTED CEILING PLAN | B | 2025 08 29 |
| A1.41 | ROOF PLAN | A | 2025 05 09 |
| A2.01 | EXTERIOR ELEVATIONS | 1 | 2025 07 01 |
| A4.11 | MILLWORK DETAILS | A | 2025 05 09 |
| A5.01 | DOOR & WINDOW SCHEDULES | B | 2025 08 29 |
| A5.02 | OVERHEAD DOOR DETAILS | A | 2025 05 09 |
| A7.02 | LP-GAS PLAN AND DETAILS | B | 2025 08 29 |
| 12 | | | |
| Plumbing | | | |
| P001 | SCHEDULES LEGENDS NOTES & DETAILS | A | 2025 05 09 |
| P101 | PLUMBING FLOOR PLANS | A | 2025 05 09 |
| 2 | | | |
| Mechanical | | | |
| M001 | NOTES AND DRAWINGS INDEX - MECHANICAL | A | 2025 05 09 |
| M002 | LEGENDS SCHEDULES AND DETAILS - MECHANICAL | A | 2025 05 09 |
| M101 | FLOOR PLAN - MECHANICAL | A | 2025 05 09 |
| M131 | ROOF PLAN - MECHANICAL | A | 2025 05 09 |
| 4 | | | |
| Electrical | | | |
| E001 | LEGEND & GENERAL NOTES | A | 2025 05 09 |
| E002 | SPECIFICATIONS | A | 2025 05 09 |
| E003 | PANEL SCHEDULES | A | 2025 05 09 |
| E101 | FLOOR PLANS | A | 2025 05 09 |
| E102 | ENLARGED PLANS | A | 2025 05 09 |
| E201 | SITE PLAN | B | 2025 08 29 |
| 6 | | | |
| 42 | | | |


## General Notes

| | |
|---|---|
| 16 | All dimensions are to face of CMU, Conc. Panel, face of existing finish, or face of new stud, unless otherwise noted. "Clear" denotes finish to finish dimensions. |
| 17 | The contractor is to coordinate the building plans with the civil and survey drawings for exact elevations and slopes of exterior grades for installation of new exterior stairs, ramps, and sidewalks. Contractor to field verify exterior grades at building entrances to align with finished floor elevations and/or new stair/ramp elevations. Grading at building perimeter to slope away from building min. 1/4" per foot. |
| 18 | All grades, lines, levels, and dimensions shown on the drawings shall be field verified by the contractor prior to start of construction. Any error or inconsistency shall be reported to the Architect for instructions prior to start of construction. |
| 19 | The contractor is to field verify locations of all existing utilities prior to start of construction and notify the Architect of any discrepancies or possible conflicts. |
| 20 | The contractor is to field verify locations and runs of all new and existing storm sewer piping and roof tie-ins. Report any discrepancy to the Architect prior to start of construction. |
| 21 | Do not interrupt existing utilities in occupied facilities unless authorized in writing by authorities having jurisdiction. If interruption is allowed, provide alternate temporary services acceptable to governing authorities. Contractor shall coordinate with all utility companies 48 hours prior to any demolition work. |
| 22 | The contractor shall perform high quality professional work. Join materials to uniform accurate fits so they meet with neat, straight lines, free of smears or overlaps. Install exposed materials appropriately level, plumb and at the accurate right angles, or flush with adjoining materials. Work of each trade shall meet all national standards published by that trade. |
| 23 | Before ordering any materials or doing any work the contractor shall verify all measurements and shall be responsible for their correctness. Any differences between dimensions indicated on the drawings shall be submitted to the Architect for instructions and considerations before proceeding with the work. |
| 24 | Furnish and install all required backing for all shelves, cabinets, fixtures, handrails and equipment. Coordinating with owner and contractor for exact size, number, and location prior to start of construction. Metal backing plates to be flat stock (20-gauge Min.) When applied to metal framing. All wood blocking, nailers, etc. Must be fire retardant treated. |
| 25 | Glazing in doors and adjacent panels must be tempered. Responsibility of glazing subcontractor to verify & place tempered glass as required by the local building code & inspector. |
| 26 | Spout outlets for wheelchair accessible drinking fountains shall be 36" max a.f.f. and for standing persons shall be 38" min a.f.f. and 43" max. A.f.f. |
| 27 | Provide water resistant & mold resistant Gyp. Bd. at all wet locations. |
| 28 | Fill all C.M.U. cells below finish floor or finished grade, whichever is higher shall be solid grouted. |
| 29 | Provide ADA compliant signage at all toilet and bathrooms. Appropriately identified as "MEN" and "WOMEN". |
| 30 | All toilet rooms and bathrooms walls shall extend from finish floor to floor/ roof deck above, provide sound batt insulation in entire stud cavity. |
| 31 | All wall base in toilet rooms, bathrooms and kitchens shall be coved and extend upward onto the wall a min. of 4" A.F.F. |
| 32 | All walls within 24" of service sink, urinal and/ or water closet shall have a smooth, hard, nonabsorbent surface, to a height of not less than 48" a.f.f. If tile or FRP is not specified provide epoxy paint, color to be selected by Architect. |
| 33 | All disciplines are referenced to each other, any discrepancies require clarificaton from the Architect. |
| 34 | Verify all existing conditions with the drawings, any discrepancies require clarification from the Architect. |
| 35 | No part of these documents supercede the other, any discrepancies require clarification from the Architect. |
| 35 | OFCI means "Owner Furnished and Contractor Installed", identifies items that are provided by the owner and installed by the contractor as part of this contract. |
| 36 | NIC means "Not In Contract", identifies items that are provided and installed under a separate contract. Shown for reference only. |
| 37 | Alternate items that are identified shall be priced separately, pricing shall include item and installation cost for inclusion into the contract if selected by the owner. |

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:** Contact: Kyle Wojciechowski 214-769-3410

**Architect:** Contact: Dan Marta 469-455-1532


TSC TRACTOR SUPPLY Co

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT
12/22/25

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| 3 | Revision 5 | 2025 12 22 |
| B | CD Set | 2025 08 29 |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037


COPYRIGHT PARKWAY C&A, LP © 2025


COVER SHEET

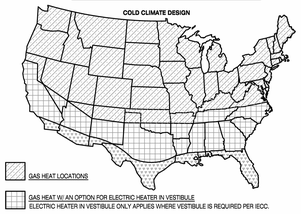
A0.00

2025 12 22

Revision 5

TRACTOR SUPPLY COMPANY ALSO ALLOWS FOR ELECTRIC HEAT TO BE USED IN LIEU OF GAS IN EXTREME SOUTHERN LOCATIONS. SEE MAP BELOW FOR ALTERNATE USE LOCATIONS.
(DESIGN PROFESSIONALS TO DETERMINE USE ALONG BORDER LINE)

COLD CLIMATE DESIGN



GAS HEAT LOCATIONS

GAS HEAT W/ AN OPTION FOR ELECTRIC HEATER IN VESTIBULE
ELECTRIC HEATER IN VESTIBULE ONLY APPLIES WHERE VESTIBULE IS REQUIRED PER IECC.

ELECTRIC HEAT LOCATIONS

NOTE: LANDLORD SHALL PROVIDE A VESTIBULE IN LOCATIONS AS INDICATED ON THE MAP BELOW, OR AS REQUIRED BY THE GOVERNING IECC EDITION FOR THE SPECIFIC SITE LOCATION. REQUIRED VESTIBULE LOCATIONS VARY BY COUNTY AND LOCAL AUTHORITIES HAVING JURISDICTION.
( DESIGN PROFESSIONALS TO DETERMINE USE ALONG BORDER LINE )



VESTIBULE DESIGN REQUIRED LOCATIONS

UNLESS OTHERWISE REQUIRED BY IECC
MUST BE APPROVED BY TSC DEAL MAKER AND PROJECT MANAGER

NOTE: TRACTOR SUPPLY COMPANY REQUIRES IRRIGATION TO BE INCORPORATED INTO DESIGN IN ALL SOUTHERN STATES AND ALL STATES WITH 50 OR MORE PLANTS. SEE MAP BELOW FOR LOCATIONS. CONTRACTOR TO INCLUDE NOTES FOR TRAINING STORE MANAGER ON WORKING IRRIGATION SYSTEM.
(DESIGN PROFESSIONALS TO DETERMINE USE ALONG BORDER LINE)



IRRIGATION DESIGN LOCATIONS

DOWNSPOUTS TO UNDERGROUND STORM DRAIN AT PROJECTS IN UNSHADED REGIONS. ARCHITECT TO COORDINATE W/ LOCAL SNOWFALL AMOUNTS AND TSC PM IN PROJECT AREAS OUTSIDE OF SHADED REGION TO DETERMINE IF DOWNSPOUTS TO STORM DRAIN ARE NECESSARY.



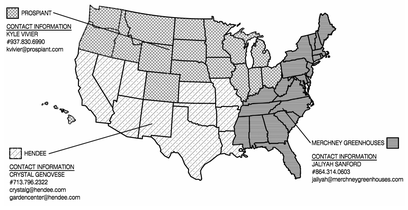
FOLLOWS IECC CLIMATE ZONE MAP FOR ZONES 1 AND 2 AND EXTENDING NORTH TO WARM/HUMID LINE

FOR PROJECTS IN SHADED AREAS, DOWNSPOUTS MAY DISCHARGE TO DAYLIGHT ACROSS CONCRETE PAD AT LOADING AREAPOD

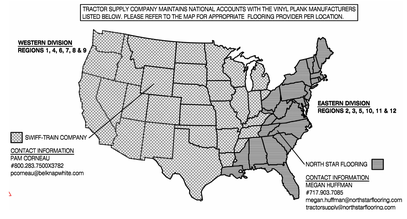
TRACTOR SUPPLY COMPANY MAINTAINS NATIONAL ACCOUNTS WITH THE MILLWORK MANUFACTURERS LISTED BELOW. PLEASE REFER TO THE MAP FOR APPROPRIATE MILLWORK PROVIDER PER LOCATION.




TRACTOR SUPPLY COMPANY MAINTAINS NATIONAL ACCOUNTS WITH THE VENDORS LISTED BELOW. PLEASE REFER TO THE MAP FOR APPROPRIATE LIVE GOODS CENTER PROVIDER PER LOCATION.




TRACTOR SUPPLY COMPANY MAINTAINS NATIONAL ACCOUNTS WITH THE VINYL PLANK MANUFACTURERS LISTED BELOW. PLEASE REFER TO THE MAP FOR APPROPRIATE FLOORING PROVIDER PER LOCATION.




# TRACTOR SUPPLY AND VENDOR CONTACT INFORMATION

| ITEM | VENDOR | CONTACT | PHONE # | E-MAIL ADDRESS | COMMENTS |
|---|---|---|---|---|---|
| Tractor Supply Fixture Plans | TSC | Peyton Howard | (615) 440-4186 | pehoward@tractorsupply.com | |
| Tractor Supply Fixture Plans | TSC | Emory Day | (615) 440-4085 | elewis@tractorsupply.com | |
| Util. Transfer, Open/Close Info | TSC | James Masters | (615) 440-4396 | jmasters@tractorsupply.com | TSC Energy Manager Engie |
| Propane Coordination | TSC | Mollie Treloar | (615) 440-4230 | mtreloar@tractorsupply.com | Store Project Specialist/Store Operations; TSC Contact for Bulk Propane |
| Propane Coordination | TSC | Mariah Crayton | (615) 647-2639 | mcrayton@tractorsupply.com | TSC Contact for Bulk Propane |
| Energy Management Systems | Philips Teletrol | Gage Perry | (603) 716-0636 | gage.perry@philips.com | |
| Balers | JWR, INC | Cory Gardner | (888) 699-2848 | cory@wrinc.net | |
| Vinyl Plank Flooring | Refer to map | TBD | TBD | TBD | |
| Vinyl Plank Flooring | Refer to map | TBD | TBD | TBD | |
| Electric Panel | Carolina Product, Inc. | Eric Line | (800) 736-4455 (O) (704) 778-2327 (C) | ericl@cpipanels.com | National Accounts Manager; Lead time: 6 weeks |
| Lighting Provider | Villa Lighting Supply, Inc. | Bryan Birdwell | (314) 633-0546 | bryan.birdwell@villalighting.com | National Accounts Manager; Lead time: 3-5 days int./ext., 3-4 weeks site poles |
| Lighting Provider | Villa Lighting Supply, Inc. | Adam Carrier | (314) 633-0523 | adam.carrier@villalighting.com | National Accounts Manager |
| Lighting Provider | Villa Lighting Supply, Inc. | Anne Voelker | (314) 633-0554 | tractorsupply@villalighting.com | Pricing Contact |
| Metal Ramp | QSI Environmental & Industrial Steel Fabricators | Tony Hamilton | (334) 793-6878 | thamilton@qsisteel.com | Lead time: 3 weeks |
| Metal Ramp | Dura-Ramp, Inc. | Andrew Streutker | (604) 795-9799 | andrew@duraramp.com | Lead time: 3-5 weeks |
| Propane Canopy | Versatube Building Systems | Zack Rice | (901) 614-2192 (O) (901) 517-6377 (C) | zrice@versatube.com | |
| Doors, Frames, & Door Hardware | DH Pace | Sami Totten | (913) 738-8580 | tscdoors@dhpace.com<br>sami.totten@dhpace.com | Lead time: 2 weeks - H.M. frames; 3 weeks - pre-painted & HPL doors; 3-4 weeks - wind rated assemblies & coastal/CA projects |
| Sectional Doors | DH Pace | Rebekah Hicks | (816) 480-2648 | tscdoors@dhpace.com<br>rebekah.hicks@dhpace.com | Lead time: 2-3 weeks - sectional & coiling doors. Use coiling doors in high impact regions |
| Storefront Doors | Allegion | Bill Gerardin | (480) 257-0619 | william.gerardin@allegion.com | Project Manager; Lead time: 16-20+ weeks |
| Security Systems | ADT | Ron King | (770) 833-7282 | ronking@adt.com | National Account Manager |
| Security Systems | ADT | Duke Daughtrey | (229) 896-5041 | ddaughtrey@adt.com | Project Manager |
| HVAC Providers | York / Johnson Controls, Inc. | Lisa Jump | (800) 481-9738 x6531<br>Toll-Free (405) 419-6527 | lisa.e.kuhns@jci.com<br>be-na-tractorsupply@jci.com | National Account Sales Manager; Lead time: 3-4 weeks |
| HVAC Providers | York / Johnson Controls, Inc. | Joe Ray | (800) 481-9738 Quote Request (405) 419-6631 | joe.ray@jci.com<br>be-na-tractorsupply@jci.com | Sales App. Engineer |
| HVAC Providers | Lennox | Steven Peter | (800) 367-6285 | nationalaccountrequest@lennoxind.com | National Account; Lead time: 6 weeks |
| HVAC Providers | Lennox | Erin Dunigan | (972) 497-6709 | erin.dunigan@lennoxind.com | |
| Security Systems | Johnson Controls, Inc. | Gavin Ellis | (205) 940-6523 | gavin.l.ellis@jci.com | System Engineer |
| Security Systems | Johnson Controls, Inc. | Damian Hallowell | | damian.hallowell@jci.com | NASC Installation Coordinator |
| Security Systems | Johnson Controls, Inc. | Stuart Moore | | stuart.g.moore@jci.com | NASC Installation Coordinator |
| Greenhouse | Prospiant | Nick Workman | | nworkman@prospiant.com | |
| Low Voltage Provider | Mercury Tech Partners, Inc. | Duane Mullins | (828) 465-7348 x344 | duane@gomtp.com | |
| Low Voltage Provider | Mercury Tech Partners, Inc. | Terry L Corpenings | (828) 465-7348 x221 | terry@gomtp.com | |
| Restroom Dryers | World Dryers | Ashley May | (479) 717-5426 | ashley.may@hjcinc.com | |
| Bumper Signs/Bollard Covers | McCue | Mike O'Neal | (770) 500-2849 | koneal@mccue.com | |
| Printing | Plan Express | Cindy Pind | (866) 404-2614 x4504 | cindy.pind@planexpress.net | Recommended Only |
| Waste & Recycling | Rocktenn Company | Diane Hueffmeier | (314) 292-3313 | dhueffme@rocktenn.com | Program Manager; Recommended Only |
| Red Striping | Pop Solutions Group | Rick Towne | (901) 483-5929 (M) (901) 795-5936 (O) | rtowne@popsolutionsgroup.com | |

# NEW STORE - TIME AND ACTION CALENDAR

| TASK | COMPLETION DATE (WEEKS TO TURNOVER DATE) | CONTACT | RESPONSIBILITY |
|---|---|---|---|
| ARCHITECT TO EMAIL FLOOR PLAN BASE SHEET TO SECURITY SYSTEMS CONTRACTOR AND TSC | UPON COMMENCEMENT OF CONSTRUCTION DOCUMENTS | TSC - PEYTON HOWARD - pehoward@tractorsupply.com<br>TSC - EMORY DAY - elewis@tractorsupply.com<br>JCI - GAVIN ELLIS - gavin.l.ellis@jci.com<br>ADT - DUKE DAUGHTREY - ddaughtrey@adt.com<br>ADT - Duke Daughtrey- ddaughtrey@adt.com | ARCHITECT |
| ARCHITECT TO OBTAIN PROPANE LOCATION APPROVAL STAMP AND DATE FROM TSC | PRIOR TO SCHEDULE I SUBMISSION | TSC - CLINT WEAVIL - cweavil@tractorsupply.com | ARCHITECT |
| DEVELOPER TO OBTAIN STATE AND LOCAL PERMITS, INCLUDING SEISMIC ANCHOR PERMITS FOR FIXTURES WHEN REQUIRED | PRIOR TO SCHEDULE II SUBMIT | TSC - PEYTON HOWARD - pehoward@tractorsupply.com<br>TSC - EMORY DAY - elewis@tractorsupply.com | DEVELOPER |
| ARCHITECT TO UPLOAD PLANS TO PROJECTMATES | LATEST REVISED DOCUMENTS<br>AT SCHEDULE I SUBMITTAL<br>AT BID<br>AT SCHEDULE II SUBMITTAL<br>AT PERMIT APPROVAL | PROJECTMATES - #214.217.4100 | ARCHITECT |
| CONTRACTOR - CONTACT SECURITY SYSTEMS CONTRACTOR AND SCHEDULE ALARM INSTALLATION | 7 WEEKS | JCI - GAIL DRAKE - gail.drake@jci.com<br>ADT - DUKE DAUGHTREY - ddaughtrey@adt.com | CONTRACTOR |
| FINAL FIXTURE PLAN FROM TSC | 6 WEEKS | TSC - PEYTON HOWARD - pehoward@tractorsupply.com<br>TSC - EMORY DAY - elewis@tractorsupply.com | TSC FIXTURE PLANNING |
| BACKBOARD (4X8 HORIZONTAL) PAINTED WHITE | 4 WEEKS | TSC - STAN KOLIC - #615.440.4824 | CONTRACTOR |
| SECURITY SYSTEMS CONTRACTOR - HAS TO BEGIN | 3 WEEKS | JCI - GAIL DRAKE - gail.drake@jci.com<br>ADT - DUKE DAUGHTREY - ddaughtrey@adt.com | TSC LOSS PREVENTION |
| CONTRACTOR - CONDUITS FOR IT AND PHONE WITH PULL STIRNGS | 4 WEEKS | TSC - STAN KOLIC - #615.440.4824 | CONTRACTOR |
| QSI / DURA-RAMP OR LOADING DOCK ACCESS, FOKRLIFT, PROPANE GAS, AND PROPANE DIS. TANK (PROPANE FOR FORKLIFT AND HEAT IF NECESSARY) | 4 WEEKS | AMERIGAS - SCOTT PIERCE (317.709.2339)<br>scott.pierce@amerigas.com<br>CHRIS SAUER (610.768.7612)<br>christopher.sauer@amerigas.com<br>MOLLIE TRELOAR (615.440.4230)<br>mtreloar@tractorsupply.com<br>MARIAH CRAYTON (615.647.2639)<br>mcrayton@tractorsupply.com | TSC STORE ADMINISTRATION & CONTRACTOR |
| CONTRACTOR TRUCK ARRIVES | 3 WEEKS BY TUESDAY | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | |
| IMPRESSIONS TRUCK ARRIVES | 3 WEEKS BY TUESDAY | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | |
| INSTALL DATE FOR PHONE LINES<br>NEED #6 GROUND AT BOARD | 3 WEEKS | TSC - STAN KOLIC - #615.440.4824 | IT |
| IT / ELEC. CLOS. AND MANAGERS OFFICE FINISHED - DUPLEX BOXES AND DEDICATED POWER | 3 WEEK | TSC - STAN KOLIC - #615.440.4824 | CONTRACTOR |
| CONTRACTOR - ALL DOORS TO BE INSTALLED WITH LOCKS | 3 WEEKS | DH PACE - NATIONAL ACCOUNTS CONSTRUCTION TEAM (NAC) - #888.722.3667 X 10031 tscdoors@tractorsupply.com | CONTRACTOR |
| PERMANENT POWER TO BUILDING | 3 WEEKS | SITE SUPERVISOR | CONTRACTOR |
| METER INFORMATION | 15 DAYS PRIOR TO FIXTURE DATE | ECOVA - TractorSupplyOPCL.insight@engie.com | CONTRACTOR |
| UNIFIRST - MOPS AND MATS | 1 WEEK | UNIFIRST - #888-851-2474 x5<br>BRAD COOPER (615.440.4965) bcooper@tractorsupply.com | TSC STORE ADMINISTRATION |
| TERMINIX - PEST CONTROL | 1 WEEK | TERMINIX - #866-818-4573<br>BRAD COOPER (615-440-4965) bcooper@tractorsupply.com | TSC STORE ADMINISTRATION |
| ROCK-TENN WASTE MANAGEMENT DUMPSTER SERVICE (40 YARD DUMPSTER) | 1 WEEK | ROCK-TENN WASTE MANAGEMENT - #800.333.8879<br>BRAD COOPER (615.440.4965) bcooper@tractorsupply.com | TSC STORE ADMINISTRATION |
| SERVICE DESK, RECEIVING DESK, REGISTER COUNTERS WITH POWER POLES SET IN PLACE | 1 WEEK | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | CONTRACTOR |
| CABLING INSTALLED TO REGISTER COUNTERS, SERVICE DESK AND RECEIVING DESK, CONNECT TO PERMANENT POWER | 1 WEEK | TSC - STAN KOLIC - #615.440.4824 | IT |
| PLAY NETWORK INSTALLED BY TSC | 1 WEEK | PLAY NETWORK - #800.342.0105<br>BRAD COOPER (615.440.4965) bcooper@tractorsupply.com | TSC STORE ADMINISTRATION |
| PROPANE PROVIDER TO FILL PROPANE DISTRIBUTION TANK | 1 WEEK | MOLLIE TRELOAR (615.440.4230)<br>mtreloar@tractorsupply.com<br>MARIAH CRAYTON (615.647.2639)<br>mcrayton@tractorsupply.com | TSC STORE ADMINISTRATION |
| CONTRACTOR TO COORDINATE INSTALLATION OF FIXTURES PRIOR TO THIS WEEK, INCLUDING SEISMIC ANCHORING FOR FIXTURES WHEN REQUIRED | FIXTURE WEEK | | CONTRACTOR |
| TRANSITION WEEK - ALL CONSTRUCTION ACTIVITIES ARE TO BE COMPLETED PRIOR TO THIS WEEK WITH THE EXCEPTION OF THE CHECK OUT COUNTER AND EMPLOYEE LOUNGE MILLWORK INSTALLATION | FIXTURE WEEK | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | CONTRACTOR |
| SOS (FULL TRUCK) | 5 DAYS (WEDNESDAY) | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | TSC STORE ADMINISTRATION |
| LIS - BACKROOM AND SIDELOT FIXTURES (1/2 TRUCK) | 4 DAYS (THURSDAY) | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | TSC STORE ADMINISTRATION |
| NATIONAL CART - CART CORRAL (1/2 TRUCK) | 4 DAYS (THURSDAY) | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | TSC STORE ADMINISTRATION |
| MEG - FIXTURES (3/4 OF A TRUCK) | 3 DAYS (FRIDAY) | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | TSC STORE ADMINISTRATION |
| LOZIER FIXTURES (FULL TRUCK) | 3 DAYS (FRIDAY) | CAROLINE RICE (615.440.4705) crice@tractorsupply.com | TSC STORE ADMINISTRATION |
| CONTRACTOR TO ENGAGE ERRC TESTING COMPANY AND SCHEDULE TESTING WHEN REQUIRED BY AHJ | AFTER MERCHANDISE PLACEMENT | | CONTRACTOR |
| TELECHECK MACHINES | 2 WEEKS TO SOFT OPENING | TELECHECK - MAX PUENTE - #713.331.7018<br>max.puente@firstdata.com | TSC STORE ADMINISTRATION |

# CLOSE-OUT BINDER REQUIREMENTS

| PROTOTYPE | RETROFIT | # | NOTE |
|---|---|---|---|
| Yes | Yes | 1 | NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CONTRACTOR AND ALL SUBCONTRACTORS. |
| Yes | Yes | 2 | THE FINAL CERTIFICATE OF OCCUPANCY OR THE EQUIVALENT THEREOF DESCRIBED IN ARTICLE 15.5.2(B) |
| Yes | Yes | 3 | AN ASSIGNMENT BY THE CONTRACTOR OF ALL GUARANTEES AND WARRANTIES FROM ALL SUBCONTRACTORS, VENDORS, SUPPLIERS, AND MANUFACTURERS, TOGETHER WITH ORIGINALS OF ALL SUCH GUARANTEES, WARRANTIES, AND OPERATING MANUALS (E.G. HVAC, ROOF, DOORS, WATER HEATER ETC. AS APPLICABLE) |
| Yes | Yes | 4 | COMPLETE LIST OF EQUIPMENT - COMPLETE TEMPLATE. |
| Yes | Yes | 5 | CONFIRMATION IN WRITING FROM THE INSTALLER OF THE HVAC SYSTEM OR COMPONENTS THEREOF CONFIRMING THAT THE PROPER START-UP PROCEDURES WERE FOLLOWED. |
| No | Yes | 6 | COMPLETE RETROFIT HVAC BREAKDOWN OF COSTS - COMPLETE TEMPLATE. |
| Yes | No | 7 | COMPLETE PROTOTYPE HVAC BREAKDOWN OF COSTS - COMPLETE TEMPLATE. |
| No | Yes | 8 | CERTIFICATE OF SEWER CLEAN-OUT BY PERSON WHO PERFORMED THE SAME. |
| Yes | Yes | 9 | DISABILITY ACCESSIBILITY INSPECTION REPORTS SENT TO THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (FOR TEXAS STORES ONLY). |
| Yes | Yes | 10 | A COPY OF THE PUNCH LIST ITEMS SIGNED BY THE OWNER (OR STORE MANAGER, IF SO AUTHORIZED BY OWNER) CONFIRMING ALL PUNCH LIST ITEMS ARE COMPLETED. |
| Yes | Yes | 11 | (1) PDF CONTAINING WORKING DRAWINGS AND PLANS AND SPECIFICATIONS REFLECTING "AS-BUILT" CONDITIONS WITH A SUMMARY LIST OF CHANGES, INCLUDED IN PDF FORMAT. |
| Yes | Yes | 12 | A COMPLETE SET OF FIRE SPRINKLER SHOP DRAWINGS, IF APPLICABLE. |
| No | Yes | 13 | A CERTIFICATE EVIDENCING THAT INSURANCE REQUIRED UNDER THE CONTRACT DOCUMENTS SHALL REMAIN IN FORCE AFTER FINAL PAYMENT AND SHALL NOT BE CANCELED, REDUCED OR ALLOWED TO EXPIRE UNTIL AT LEAST 30 DAYS PRIOR WRITTEN NOTICE HAS BEEN GIVEN TO THE OWNER. |
| Yes | Yes | 14 | CERTIFICATION OF WATER WELLS AND/OR SEPTIC SYSTEMS THAT DEMONSTRATE INSPECTION AND ACCEPTANCE BY THE MUNICIPALITY. THIS SHOULD INCLUDE ANY ONGOING TESTING AND/OR INSPECTIONS THAT ARE REQUIRED AS WELL AS THE INTERVAL AT WHICH TESTING AND/OR INSPECTION MUST BE COMPLETED. |
| No | Yes | 15 | DIGITAL PHOTOGRAPHS OF THE "BEFORE" AND "AFTER" OF THE FRONT VIEW OF THE STORE. |
| Yes | Yes | 16 | ROOFING INSPECTION REPORT FROM THE ROOFING MANUFACTURER (SHOULD REFLECT ROOF PROPERLY INSTALLED AND AS SUCH WARRANTY 100% INTACT) |
| Yes | No | 17 | (CERTIFICATE FROM THE PROJECT CIVIL ENGINEER THAT THE STORMWATER DRAINAGE SYSTEM HAS BEEN CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICABLE LAWS (SEE LEASE EXHIBIT). |

CONTRACTOR SHALL PROVIDE OWNER WITH ONE ELECTRONIC CLOSE-OUT BINDER ON A CD. ALL INFORMATION ABOVE MUST BE INCLUDED. THE CLOSE-OUT BINDER SHALL BE SENT ATTN: TO THE CONSTRUCTION COORDINATOR AT THE OWNER'S ADDRESS:
5401 VIRGINIA WAY, BRENTWOOD, TN 372027. FOR QUESTIONS, CONTACT GAYLE BASS 615-440-4795.

TSC PM
APPROVAL & DATE

NOTE: GENERAL CONTRACTOR / LANDLORD TO SEE LEASE / CONTRACT FOR SPECIFIC CHECKLIST

**ITEMS WITHIN THE CONTRACT DOCUMENTS ARE AT THE COST OF CONTRACTOR UNLESS NOTED OTHERWISE.**

## CHANGE ORDER POLICY

TRACTOR SUPPLY COMPANY SHALL NOT BE RESPONSIBLE FOR THE PAYMENT OF ANY WORK PERMITTED OR MATERIAL SUPPLIED BY THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS, SUB SUBCONTRACTORS AND ANYONE CLAIMING BY, THROUGH, OR UNDER ANY OF THEM WHICH IS NOT IDENTIFIED IN WRITING AND SIGNED BY ONE OF THE FOLLOWING TRACTOR SUPPLY COMPANY PERSONNEL: VICE PRESIDENT OF REAL ESTATE, VICE PRESIDENT OF CONSTRUCTION, OR A CONSTRUCTION PROJECT MANAGER. NO ACTION, CONDUCT, OMISSION, PRIOR FAILURE, OR COURSE OF DEALING BY TRACTOR SUPPLY COMPANY SHALL ACT TO WAIVE, MODIFY, CHANGE OR ALTER THE REQUIREMENT THAT ALL WORK, WHETHER BY CONTRACT, CHANGE ORDER OR CHANGE DIRECTIVE, MUST BE IN WRITING AND SIGNED BY THE PERSONNEL IDENTIFIED IN THIS PROVISION. ANY WORK PERFORMED OR MATERIAL PROVIDED BY THE CONTRACTOR, ANY OF ITS SUBCONTRACTORS, SUB SUBCONTRACTORS CONTRARY TO THIS PROVISION SHALL BE AT ITS OWN RISK AND OWN EXPENSE AND CONTRACTOR SUPPLY COMPANY SHALL NOT BE OBLIGATED TO REIMBURSE OR PAY THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS, SUB SUBCONTRACTORS FOR SAME.

# GENERAL NOTES

**GENERAL:**

1. NOTIFY THE TSC CONSTRUCTION PM AND THE ARCHITECT OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS. CLARIFY DISCREPANCIES WITH THE TSC CONSTRUCTION PM AND THE ARCHITECT PRIOR TO COMMENCING WORK.
2. FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO ORDERING MATERIALS AND STARTING THE WORK.
3. DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
4. CONTRACT DOCUMENTS DEPICT END RESULT OF DESIGN. MINOR MODIFICATION MAY BE REQUIRED TO SUIT EXISTING SITE DIMENSIONS AND CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
5. MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT USED IN THE WORK SHALL BE LISTED AND LABELED BY AN APPROVED AGENCY.
6. INSTALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES AND SPECIFICATIONS, UNLESS OTHERWISE DIRECTED PER LOCAL AUTHORITIES HAVING JURISDICTION.
7. MAINTAIN ONE COMPLETE SET OF APPROVED CONTRACT DOCUMENTS ON SITE INCLUDING REVISIONS AND ADDENDA. CONTRACTOR AND SUBCONTRACTORS SHALL HAVE ACCESS TO THE LATEST VERSION OF THE CONTRACT DOCUMENTS VIA PROCORE.
8. SUPERVISE AND DIRECT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, WORK SEQUENCING, AND WORK PERFORMED AND MATERIALS FURNISHED BY SUBCONTRACTORS AND OWNER.
9. DO NOT CLOSE, BLOCK, OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT WRITTEN AUTHORIZATION BY THE AUTHORITY HAVING JURISDICTION (AHJ). PROVIDE ALTERNATE ROUTES TO CLOSED OR OBSTRUCTED PUBLIC WAYS AS REQUIRED BY THE AHJ. MAINTAIN SAFETY BARRICADES FOR PROTECTION OF THE PUBLIC FROM AREAS OF WORK. REMOVE BARRICADES WHEN NO LONGER REQUIRED.
10. PROVIDE JOB TRAILER, TOILET, AND POWER FOR COMPLETION OF THE WORK. TAPS, EXTENSIONS, VALVES, AND OTHER MODIFICATIONS TO EXISTING UTILITIES USED TO FOR POWER AND EQUIPMENT TO COMPLETE THE WORK SHALL BE REMOVED AT PROJECT COMPLETION.
11. REMOVE DEBRIS REFUSE, AND CONSTRUCTION WASTE FROM SITE DAILY. LEGALLY TRANSPORT AND DISPOSE OF SUCH MATERIALS OFF - SITE. BURYING OR BURNING OF ITEMS TO BE REMOVED IS PROHIBITED.
12. PERFORM HIGH QUALITY WORK. JOIN MATERIALS TO UNIFORM, ACCURATE FIT. MATERIALS SHOULD ALIGN; HAVE STRAIGHT, LEVEL EDGES AND SURFACES (UNLESS NOTED OTHERWISE) . WORK SHALL COMPLY WITH PUBLISHED STANDARDS.
13. PROVIDE INDEPENDENT INSPECTIONS AND SPECIAL TESTING WHEN REQUIRED BY CODE. SUBMIT REPORTS AND DOCUMENTATION TO THE OWNER.

**SITE & UTILITIES:**

14. LOCATE EXISTING UTILITIES AND SERVICES WHETHER OR NOT EXISTING UTILITIES ARE SHOWN WITHIN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS RELATED TO THE EXECUTION OF THE WORK.
15. DO NOT INTERRUPT EXISTING UTILITIES IN OCCUPIED FACILITIES UNLESS AUTHORIZED IN WRITING BY THE AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICE FOR UTILITIES AS REQUIRED DURING EXECUTION OF THE WORK. COMMUNICATE WITH STORE MANAGERS A MINIMUM OF 48 HOURS PRIOR TO SERVICE DISRUPTION. COORDINATE WITH UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO DEMOLITION WORK.
16. CONTRACTOR SHALL PAY FOR UTILITY COST DURING CONSTRUCTION. CONTACT DEEANA GHOLSON AT ECOVA, INC. 509-329-7516 (2) WEEKS PRIOR TO FIXTURE DATE FOR TRANSFER TO TSC.
17. FIELD VERIFY GRADES, LEVELS, AND LOCATIONS OF EXISTING STORM DRAINAGE AND ROOF TIE-INS. REFER TO KEYNOTES ON SITE PLAN, FLOOR PLAN AND ELEVATIONS TO DETERMINE REMODEL SCOPE THAT INTERFACES WITH EXISTING DRAINAGE OR REQUIRES NEW INFRASTRUCTURE. GRADING AT BUILDING PERIMETER TO SLOPE AWAY FROM THE BUILDING A MINIMUM OF 1/4" PER FOOT. NOTIFY TSC CONSTRUCTION PM AND ARCHITECT OF DRAINAGE ISSUES IDENTIFIED ON SITE NOT SHOWN IN THE CONTRACT DOCUMENTS.
18. FIELD VERIFY GRADES, EXTERIOR PUBLIC SIDEWALK SURFACES, AND FINISHED FLOOR ELEVATIONS FOR THE INSTALLATION OF NEW STAIRS, RAMPS, AND SIDEWALKS APPLICABLE TO THE SCOPE OF WORK. MAINTAIN ACCESSIBLE SLOPES ALONG ACCESSIBLE PATHS. NOTIFY ARCHITECT IF EXISTING CONDITIONS CONFLICT WITH REQUIRED ACCESSIBLE ROUTES.

**TRACTOR SUPPLY COMPANY ((TSC)/ OWNER) REQUIREMENTS:**

19. REMOVE AND UNLOAD THE SOS TRUCK WHEN IT ARRIVES AS SCHEDULED. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF REDELIVERY FEES IN THE EVENT THE ORIGINAL SHIPMENT IS REFUSED AND REDELIVERY CHARGES ARE INCURRED.

| ITEM | VENDOR | TIMELINE |
|---|---|---|
| BRAILLE SIGNS | TSC (OWNER) | 4 WEEKS |
| FIRE EXTINGUISHERS | NOI | 4 WEEKS |
| TOILET ACCESSORIES | BAYWEST | 4 WEEKS |
| FIXTURE PLAN | TSC (OWNER) | 4 WEEKS |
| REGISTER MILLWORK | LOZIER | 3 WEEKS |
| RECEIVING TABLE | LOZIER | 3 WEEKS |
| *(CONFIRM WITH TSC PM IF THE FOLLOWING ITEMS ARE APPLICABLE ON REMODELS):* | | |
| FORKLIFT | VARIOUS | 4 WEEKS |
| DOCK PLATE | ALABAMA CONVERTER | 3 WEEKS |
| RED TABLES | ALABAMA CONVERTER | 3 WEEKS |
| PALLET JACKS | ALABAMA CONVERTER | 3 WEEKS |
| ADJUSTABLE DOOR JAMBS | ALABAMA CONVERTER | 3 WEEKS |
| ALABAMA CONVERTER | ALABAMA CONVERTER | 3 WEEKS |

20. CONTRACTOR RESPONSIBLE FOR WAREHOUSE FIXTURE INSTALLATION AND BOLT DOWN. SEE FLOOR PLAN KEYNOTES FOR SCOPE ON REMODEL LOCATIONS.
21. DOCK ACCESS FROM ROAD MUST BE ACHIEVED 3 WEEKS PRIOR TO FIXTURE DATE.
22. SUBMIT A REPORT ON A WEEKLY BASIS INDICATING THE PERCENT COMPLETE FOR EACH LINE ITEM ON THE SCHEDULE USING THE TSC WEEKLY PROGRESS REPORT ALONG WITH PHOTOS PER PHOTO LOG ON THE BLACK REPORTS PROVIDED BY TSC.
23. CONTRACTOR TO HAVE A LOCAL CONTACT WITHIN 2-HOURS FOR ALL (NON)WARRANTY ELECTRICAL AND/ OR PLUMBING CALLBACK REPAIRS.
24. TSC RESERVES THE RIGHT TO REVIEW THE BUILDING AND WORK AT ANY TIME.
25. PRODUCTS AND MANUFACTURERS SPECIFIED ARE THE MINIMUM ACCEPTABLE LEVEL OF QUALITY. SUBSTITUTIONS MAY BE SUBMITTED TO THE OWNER THROUGH THE TSC CONSTRUCTION PM FOR REVIEW AND APPROVAL. DEVIATIONS FROM THE PRODUCTS AND MANUFACTURERS SPECIFIED, WHICH ARE INSTALLED WITHOUT TSC'S WRITTEN APPROVAL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
26. OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED
NIC = NOT IN CONTRACT

THE FOLLOWING ITEMS ARE NIC (FURNISHED AND INSTALLED BY TSC):

a. "OPEN" SIGN, "CUB CADET" SIGN
b. WALL MOUNTED AND PYLON (WHERE APPLICABLE) SIGN(S). CONTRACTOR RESPONSIBLE FOR POWER TO POLE BASE AND WALL SIGN. VERIFY POWER TO SIGNS ON REMODEL PROJECTS. COORDINATE WITH SIGN VENDOR ON NEW SIGN LOCATIONS.
c. ALARM VENDOR WORK (NOT INCLUDING LOW VOLTAGE WIRING)

THE FOLLOWING ITEMS ARE OFCI:

d. RESTROOM ACCESSORIES
e. FIRE EXTINGUISHERS
f. BRAILLE SIGNAGE

27. ALTERNATE ITEMS IDENTIFIED IN THE CONTRACT DOCUMENTS SHALL BE PRICED SEPARATELY. PRICING SHALL INCLUDE ITEM AND INSTALLATION COST FOR INCLUSION IN THE CONTRACT IF SELECTED BY OWNER.
28. CONTRACTOR RESPONSIBLE FOR STRUCTURAL BRACING REQUIRED DURING CONSTRUCTION.

# LOW VOLTAGE WIRING (LVW) RESPONSIBILITY AND TIMING PLAN

| ACTION | BY WHO | WHEN | NOTES |
|---|---|---|---|
| STORE ADDED TO SOS | TSC REAL ESTATE | 1ST MONDAY OF EACH MONTH | |
| CODES RESEARCHED (CONTACT TSC PM AS NECESSARY), BA AND FA PLANS COMPLETED | JCI / ADT

**301 General**
**301.1 Scope.** The provisions of Chapter 3 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

**302 Floor or Ground Surfaces**

**Figure 302.2 Carpet Pile Height**

**302.3 Openings.** Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

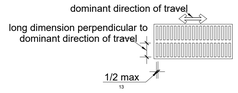



**Figure 302.3 Elongated Openings in Floor or Ground Surfaces**

**303 Changes in Level**
**303.1 General.** Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.
**EXCEPTIONS:**
1. Animal containment areas shall not be required to comply with 303.
2. Areas of sport activity shall not be required to comply with 303.
303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.




**Figure 303.2 Vertical Change in Level**

**303.3 Beveled.** Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

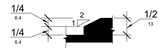



**Figure 303.3 Beveled Change in Level**

**303.4 Ramps.** Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

**304 Turning Space**
**304.1 General.** Turning space shall comply with 304.

**304.3 Size.** Turning space shall comply with 304.3.1 or 304.3.2.

**304.3.1 Circular Space.** The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

**304.3.2 T-Shaped Space.** The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

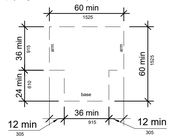



**Figure 304.3.2 T-Shaped Turning Space**

**304.4 Door Swing.** Doors shall be permitted to swing into turning spaces.

**305 Clear Floor or Ground Space**
**305.1 General.** Clear floor or ground space shall comply with 305.

**305.2 Floor or Ground Surfaces.** Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.
**EXCEPTION:** Slopes not steeper than 1:48 shall be permitted.
**305.3 Size.** The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

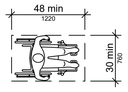



**Figure 305.3 Clear Floor or Ground Space**

**305.4 Knee and Toe Clearance.** Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

**305.5 Position.** Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

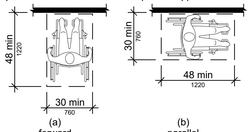



**Figure 305.5 Position of Clear Floor or Ground Space**

**305.6 Approach.** One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.
**305.7 Maneuvering Clearance.** Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

**306 Knee and Toe Clearance**
**306.1 General.** Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

**306.2 Toe Clearance.**
**306.2.1 General.** Space under an element between the finish floor or ground and 9 inches (230mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.
**306.2.2 Maximum Depth.** Toe clearance shall extend 25 inches (635 mm) maximum under an element.
**306.2.3 Minimum Required Depth.** Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.
**306.2.4 Additional Clearance.** Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.
**306.2.5 Width.** Toe clearance shall be 30 inches (760 mm) wide minimum.

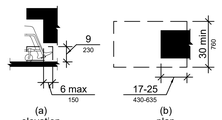



**Figure 306.2 Toe Clearance**

**306.3 Knee Clearance.**
**306.3.1 General.** Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

**306.3.2 Maximum Depth.** Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

**306.3.3 Minimum Required Depth.** Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

**306.3.4 Clearance Reduction.** Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

**306.3.5 Width.** Knee clearance shall be 30 inches (760 mm) wide minimum.

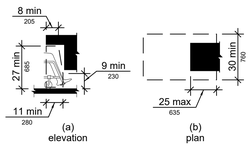



**Figure 306.3 Knee Clearance**

**404 Doors, Doorways, and Gates**
**404.1 General.** Doors, doorways, and gates that are part of an accessible route shall comply with404.
**EXCEPTION:** Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

**404.2.4 Maneuvering Clearances.** Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.
**EXCEPTION:** Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.
**404.2.4.1 Swinging Doors and Gates.** Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

Table 404.2.4.1. Maneuvering Clearances at Manual Swinging Doors and Gates

| Type of Use | | Minimum Maneuvering Clearance | |
|---|---|---|---|
| Approach Direction | Door or Gate Side | Perpendicular to Doorway | Parallel to Doorway (beyond latch side unless noted) |
| From front | Pull | 60 inches (1525 mm) | 18 inches (455 mm) |
| From front | Push | 48 inches (1220 mm) | 0 inches (0 mm)[1] |
| From hinge side | Pull | 60 inches (1525 mm) | 36 inches (915 mm) |
| From hinge side | Pull | 54 inches (1370 mm) | 42 inches (1065 mm) |
| From hinge side | Push | 42 inches (1065 mm)[2] | 22 inches (560 mm)[3] |
| From latch side | Pull | 48 inches (1220 mm)[4] | 24 inches (610 mm) |
| From latch side | Push | 42 inches (1065 mm)[4] | 24 inches (610 mm) |

1. Add 12 inches (305 mm) if closer and latch are provided.
2. Add 6 inches (150 mm) if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches (150 mm) if closer is provided.

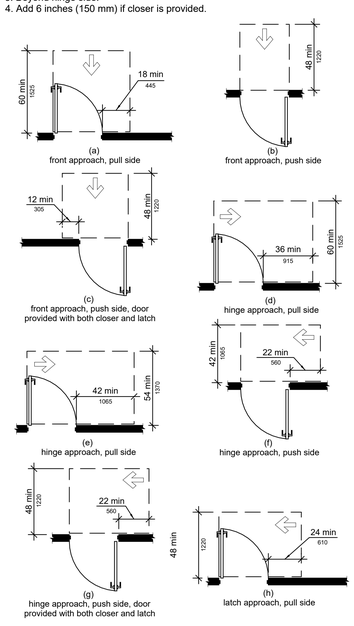



**Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates**

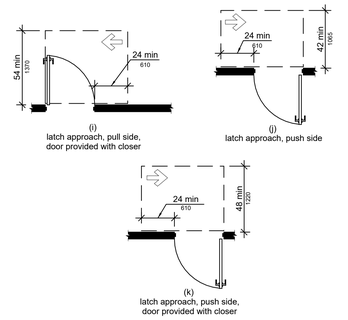



**Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates**

**404.2.4.3 Recessed Doors and Gates.** Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

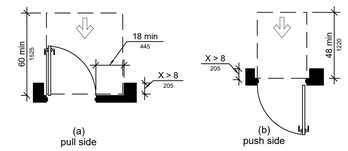



**Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates**

**404.2.4.4 Floor or Ground Surface.** Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.
**EXCEPTIONS:**
**1.** Slopes not steeper than 1:48 shall be permitted.
**2.** Changes in level at thresholds complying with 404.2.5 shall be permitted.

**404.2.5 Thresholds.** Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.
**EXCEPTION:** Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

**404.2.6 Doors in Series and Gates in Series.** The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

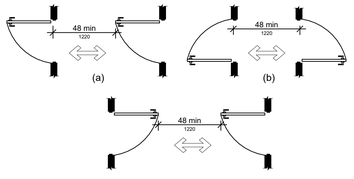



**Figure 404.2.6 Doors in Series and Gates in Series**

**404.2.7 Door and Gate Hardware.** Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
**EXCEPTIONS:**
**1.** Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.
**2.** Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also selflocking devices and operated by means of a key, electronic opener, or integral combination lock.

**404.2.8 Closing Speed.** Door and gate closing speed shall comply with 404.2.8.

**404.2.8.1 Door Closers and Gate Closers.** Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

**404.2.8.2 Spring Hinges.** Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

**404.2.9 Door and Gate Opening Force.** Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:
1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.
These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

**404.2.10 Door and Gate Surfaces.** Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.
**EXCEPTIONS:**
**1**. Sliding doors shall not be required to comply with 404.2.10.
**2.** Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255mm) bottom smooth surface height requirement.
**3.** Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.
**4.** Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

**404.2.11 Vision Lights.** Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.
**EXCEPTION:** Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

**404.3 Automatic and Power-Assisted Doors and Gates.** Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

**404.3.1 Clear Width.** Doorways shall provide a clear opening of 32 inches (815 mm) minimum in power-on and power-off mode. The minimum clear width for automatic door systems in a doorway shall be based on the clear opening provided by all leaves in the open position.

**404.3.2 Maneuvering Clearance.** Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.
**EXCEPTION:** Where automatic doors and gates remain open in the power-off condition,compliance with 404.2.4 shall not be required.

**404.3.3 Thresholds.** Thresholds and changes in level at doorways shall comply with 404.2.5.

**404.3.4 Doors in Series and Gates in Series.** Doors in series and gates in series shall comply with 404.2.6.

**404.3.5 Controls.** Manually operated controls shall comply with 309. The clear floor space adjacent to the control shall be located beyond the arc of the door swing.

**404.3.6 Break Out Opening.** Where doors and gates without standby power are a part of a means of egress, the clear break out opening at swinging or sliding doors and gates shall be 32 inches (815mm) minimum when operated in emergency mode.
**EXCEPTION:** Where manual swinging doors and gates comply with 404.2 and serve the same means of egress compliance with 404.3.6 shall not be required.
**404.3.7 Revolving Doors, Revolving Gates, and Turnstiles.** Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

**405 Ramps**
**405.1 General.** Ramps on accessible routes shall comply with 405.
EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

**405.2 Slope.** Ramp runs shall have a running slope not steeper than 1:12.
**EXCEPTION:** In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

**Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities**

| Slope[1] | Maximum Rise |
|---|---|
| Steeper than 1:10 but not steeper than 1:8 | 3 inches (75 mm) |
| Steeper than 1:12 but not steeper than 1:10 | 6 inches (150 mm) |

1. A slope steeper than 1:8 is prohibited.

**405.3 Cross Slope.** Cross slope of ramp runs shall not be steeper than 1:48.

**405.4 Floor or Ground Surfaces.** Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.
**405.5 Clear Width.** The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.
**EXCEPTION:** Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

**405.6 Rise.** The rise for any ramp run shall be 30 inches (760 mm) maximum.

**405.7 Landings.** Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

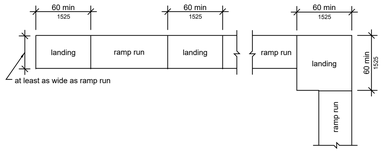



**Figure 405.7 Ramp Landings**

**405.7.1 Slope.** Landings shall comply with 302. Changes in level are not permitted.
**EXCEPTION:** Slopes not steeper than 1:48 shall be permitted.

**405.7.2 Width.** The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

**405.7.3 Length.** The landing clear length shall be 60 inches (1525 mm) long minimum.

**405.7.4 Change in Direction.** Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) min.

**405.7.5 Doorways.** Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

**405.8 Handrails.** Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.
**EXCEPTION:** Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to permit the installation of handrails complying with 505. Ramps not subject to the exception to 405.5 shall be designed to maintain a 36 inch (915mm) minimum clear width when handrails are installed.

**405.9 Edge Protection.** Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.
**EXCEPTIONS:**
**1.** Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with 406.3.
**2.** Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.
**3.** Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of ½ inch (13 mm) maximum within 10 inches (255 mm) horizontally of the min. landing area specified in 405.7.

**405.9.1 Extended Floor or Ground Surface.** The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

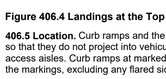



**Figure 405.9.1 Extended Floor or Ground Surface Edge Protection**

**405.9.2 Curb or Barrier.** A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

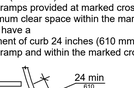



**Figure 405.9.2 Curb or Barrier Edge Protection**

**405.10 Wet Conditions.** Landings subject to wet conditions shall be designed to prevent the accumulation of water.

**406.1 General.** Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and405.10.

**406.2 Counter Slope.** Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

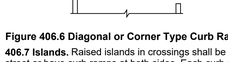



**Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps**

**406.3 Sides of Curb Ramps.** Where provided, curb ramp flares shall not be steeper than 1:10.

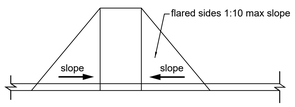



**Figure 406.3 Sides of Curb Ramps**

**406.4 Landings.** Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.
**EXCEPTION:** In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

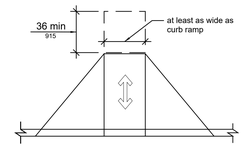



**Figure 406.4 Landings at the Top of Curb Ramps**

**406.5 Location.** Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

**406.6 Diagonal Curb Ramps.** Diagonal or corner type curb ramps with returned curbs or other well defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a
segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

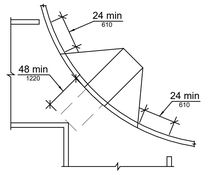



**Figure 406.6 Diagonal or Corner Type Curb Ramps**

**406.7 Islands.** Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

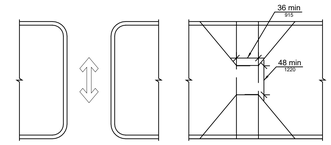



**Figure 406.7 Islands in Crossings**

**501 General**
**501.1 Scope.** The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document

**502 Parking Spaces**
**502.1 General.** Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
**EXCEPTION:** Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

**502.2 Vehicle Spaces.** Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.
**EXCEPTION:** Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

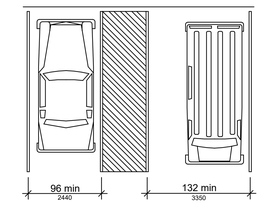



**Figure 502.2 Vehicle Parking Spaces**

**502.3 Access Aisle.** Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

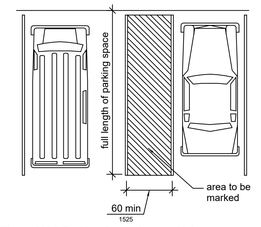



**Figure 502.3 Parking Space Access Aisle**

**502.3.1 Width.** Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

**502.3.2 Length.** Access aisles shall extend the full length of the parking spaces they serve.

**502.3.3 Marking.** Access aisles shall be marked so as to discourage parking in them.

**502.3.4 Location.** Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

**502.4 Floor or Ground Surfaces.** Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
**EXCEPTION:** Slopes not steeper than 1:48 shall be permitted.

**502.5 Vertical Clearance.** Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

**502.6 Identification.** Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the
designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

**502.7 Relationship to Accessible Routes.** Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

**503 Passenger Loading Zones**
**503.1 General.** Passenger loading zones shall comply with 503.

**503.2 Vehicle Pull-Up Space.** Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum.

**503.3 Access Aisle.** Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

**503.3.1 Width.** Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide minimum.

**503.3.2 Length.** Access aisles shall extend the full length of the vehicle pull-up spaces they serve.

**503.3.3 Marking.** Access aisles shall be marked so as to discourage parking in them.

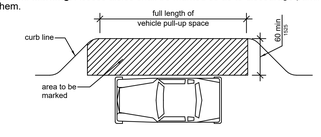



**Figure 503.3 Passenger Loading Zone Access Aisle**


CONSTRUCTION • ARCHITECTURE
PKWY
**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
**Project Manager:** Contact: Kyle Wojciechowski 214-766-3410
**Architect:** Contact: Dan Marta 469-455-1532
TRACTOR SUPPLY Co.
TSC Store # 3178
465 Coors Blvd NW
Albuquerque NM
**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205
**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979
**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616
**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448
STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT
Architect: Chris A. Rutledge


| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

ACCESSIBILITY SHEET

A0.20

**503.4 Floor and Ground Surfaces.** Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted.
**EXCEPTION:** Slopes not steeper than 1:48 shall be permitted.

**503.5 Vertical Clearance.** Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

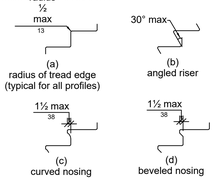
**504 Stairways**
**504.1 General.** Stairs shall comply with 504.

**504.2 Treads and Risers.** All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

**504.3 Open Risers.** Open risers are not permitted.

**504.4 Tread Surface.** Stair treads shall comply with 302. Changes in level are not permitted.
**EXCEPTION:** Treads shall be permitted to have a slope not steeper than 1:48.

**504.5 Nosings.** The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm)maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from
vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.



(a) radius of tread edge (typical for all profiles)
(b) angled riser
(c) curved nosing
(d) beveled nosing

**Figure 504.5 Stair Nosings**

**504.6 Handrails.** Stairs shall have handrails complying with 505.

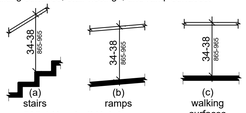
**504.7 Wet Conditions.** Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

**505 Handrails**
**505.1 General.** Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

**505.2 Where Required.** Handrails shall be provided on both sides of stairs and ramps.
**EXCEPTION:** In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.

**505.3 Continuity.** Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.
**EXCEPTION:** In assembly areas, handrails on ramps shall not be required to be continuous in aisles serving seating.

**505.4 Height.** Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.



(a) stairs (b) ramps (c) walking surfaces

**Figure 505.4 Handrail Height**

**505.5 Clearance.** Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm)minimum.




**Figure 505.5 Handrail Clearance**

**505.6 Gripping Surface.** Handrail gripping surfaces shall be continuous

**505.6 Gripping Surface.** Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.
**EXCEPTIONS:**
**1.** Where handrails are provided along walking surfaces with slopes not steeper than 1:20, the bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
**2.** The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch (3.2 mm) for each 1/2 inch (13 mm) of additional handrail
perimeter dimension that exceeds 4 inches (100 mm).

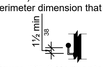
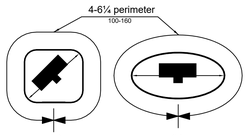



**Figure 505.6 Horizontal Projections Below Gripping Surface**

**505.7 Cross Section.** Handrail gripping surfaces shall have a cross section complying with 505.7.1or 505.7.2.

**505.7.1 Circular Cross Section.** Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

**505.7.2 Non-Circular Cross Sections.** Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.



(a) (b)

**Figure 505.7.2 Handrail Non-Circular Cross Section**

**505.8 Surfaces.** Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

**505.9 Fittings.** Handrails shall not rotate within their fittings.

**505.10 Handrail Extensions** Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.
**EXCEPTIONS:**
**1.** Extensions shall not be required for continuous handrails at the inside turn of switchback or dogleg stairs and ramps.

**2.** In assembly areas, extensions shall not be required for ramp handrails in aisles serving seating where the handrails are discontinuous to provide access to seating and to permit crossovers within aisles.
**3.** In alterations, full extensions of handrails shall not be required where such extensions would be hazardous due to plan configuration.

**505.10.1 Top and Bottom Extension at Ramps.** Ramp handrails shall extend horizontally above thelanding for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

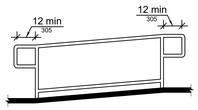



**Figure 505.10.1 Top and Bottom Handrail Extension at Ramps**

**505.10.2 Top Extension at Stairs.** At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing.Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

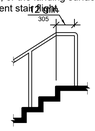
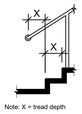



**Figure 505.10.2 Top Handrail Extension at Stairs**

**505.10.3 Bottom Extension at Stairs.** At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.



Note: X = tread depth

**Figure 505.10.3 Bottom Handrail Extension at Stairs**

**601 General**
**601.1 Scope.** The provisions of Chapter 6 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

**602 Drinking Fountains**
**602.1 General.** Drinking fountains shall comply with 307 and 602.
**602.2 Clear Floor Space.** Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.
**EXCEPTION:** A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

**602.3 Operable Parts.** Operable parts shall comply with 309.

**602.4 Spout Height.** Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

**602.5 Spout Location.** The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

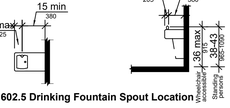



**Figure 602.5 Drinking Fountain Spout Location**

**602.6 Water Flow.** The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

**602.7 Drinking Fountains for Standing Persons.** Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) max. above the finish floor or ground.

**603 Toilet and Bathing Rooms**
**603.1 General.** Toilet and bathing rooms shall comply with 603.

**603.2 Clearances.** Clearances shall comply with 603.2.

**603.2.1 Turning Space.** Turning space complying with 304 shall be provided within the room.

**603.2.2 Overlap.** Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

**603.2.3 Door Swing.** Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.
**EXCEPTIONS:**
**1.** Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3.
**2.** Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

**603.3 Mirrors.** Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

**603.4 Coat Hooks and Shelves.** Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

**603.5 Diaper Changing Tables.** Diaper changing tables shall comply with Sections 309 and 902.

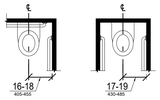
**603.6 Operable Parts.** Operable parts on towel dispensers and hand dryers serving accessible lavatories shall comply with Table 603.6.

Table 603.6
Maximum Reach Depth and Height

| Maximum Reach Depth | 0.5 inch (13 mm) | 2 inches (51 mm) | 5 inches (125 mm) | 6 inches (150 mm) | 9 inches (230 mm) | 11 inches (280 mm) |
|---|---|---|---|---|---|---|
| Maximum Reach Height | 48 inches (1220 mm) | 46 inches (1170 mm) | 42 inches (1065 mm) | 40 inches (1015 mm) | 36 inches (915 mm) | 34 inches (865 mm) |

**604 Water Closets and Toilet Compartments**
**604.1 General.** Water closets and toilet compartments shall comply with 604.2 through 604.8.
**EXCEPTION:** Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

**604.2 Location.** The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches
(455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.



(a) wheelchair accessible water closets (b) ambulatory accessible water closets

**Figure 604.2 Water Closet Location**

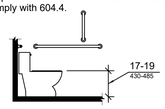
**604.3 Clearance.**Clearances around water closets and in toilet compartments shall comply with604.3.
**604.3.1 Clearance width.**Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall
**604.3.2 Clearance Depth. C**learance around the water closet shall be 56 inches (1420 mm) minimum measured perpendicular from the rear wall.




**Figure 604.3.1 Size of Clearance for Water Closets**

**604.3.3 Clearance Overlap.** The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

**604.4 Height.** The height of a water closet seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.
**EXCEPTIONS:** A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.



Note: For children's dimensions see Fig. 604.11.4

**Figure 604.4 Water Closet Seat Height**

**604.5 Grab Bars.** Grab bars for water closets shall comply with 609 and shall be provided in accordance with Sections 604.5.1 and 604.5.2. Grab bars shall be provided on the rear wall and on the side wall closest to the water closet..
**EXCEPTIONS:**
**1.** Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
**2.** In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

**604.5.1 Fixed Side Wall Grab Bars.** Fixed side-wall grab bars shall be 42 inches (1065 mm) minimum in length, located 12 inches (305mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall. In addition, a vertical grab bar 18 inches (455 mm) minimum in length shall be mounted with the bottom of the bar located 39 inches (990m) minimum and 41 inches (1040 mm) maximum above the floor, and with the center line of the bar located 39 inches (990mm) minimum and 41 inches (1040 mm) maximum from the rear wall.
**EXCEPTION:** The vertical grab bar at water closets primarily for children's use shall comply with Section 609.4.2.

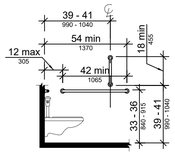



**Figure 604.5.1 Side Wall Grab Bar for Water Closets**

**604.5.2 Rear Wall.** The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610mm) minimum on the other side.
**EXCEPTIONS:**
**1.** The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
**2.** Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

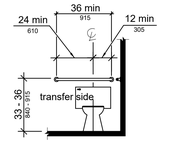



**Figure 604.5.2 Rear Wall Grab Bar at Water Closets**

**604.6 Flush Controls.** Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with Section 309. Flush controls shall be located on the open side of the water closet.
**EXCEPTION:** In ambulatory accessible compartments complying with Section 604.10, flush controls shall be permitted to be located on either side of the water closet.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

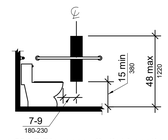
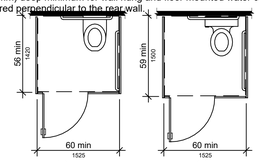



**Figure 604.7 Dispenser Outlet Location**

**604.8 Coat Hooks and Shelves.** Coat hooks provided within toilet compartments shall be 48 inches (1220 mm) maximum above the floor. shelves shall be 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the floor.
**604.9 Wheelchair Accessible Compartments.** Wheelchair accessible compartments shall comply with 604.9.
**604.9.2 Size.** Toilet compartments shall comply with Section 604.9.2.1 or 604.9.2.2 as applicable.
**604.9.2.1 Minimum area.** The minimum area of a wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall.
**604.9.2.2 Compartment for children's use.** The minimum area of a wheelchair accessible compartment primarily for children's use shall be 60 inches (1525 mm) minimum in width measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.



(a) adult wall hung water closet (b) adult floor mounted water closet and children's water closet

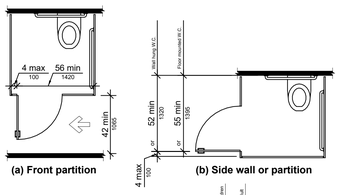
**Figure 604.9.2 Wheelchair Accessible Toilet Compartment**

**604.9.3 Doors.** Toilet compartment doors, including door hardware, shall comply with Section 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum.The door shall be self-closing. A door pull complying with 404.2.6 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment.

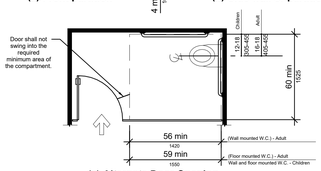
**604.9.3.1 Door Opening Location.** The farthest edge of toilet compartment door opening shall be located in the front wall or partition or in the side wall or partition as required by Table 604.9.3.1.

**Table 604.9.3.1 - Door Opening location**

| Door Opening Location | Measured From | Dimension |
|---|---|---|
| Front Wall or Partition | From the side wall or partition closest to the water closet | 56 inches (1420 mm) minimum |
| | or | |
| | From the side wall or partition farthest from the water closet | 4 inches (100 mm) maximum |
| | From the rear wall | 52 inches (1320 mm) minimum |
| Side Wall or Partition Wall-Hung Water Closet | or | |
| | From the front wall or partition | 4 inches (100 mm) maximum |
| Side Wall or Partition Floor-mounted Water Closet | From the rear wall | 55 inches (1395 mm) minimum |
| | or | |
| | From the front wall or partition | 4 inches (100 mm) maximum |



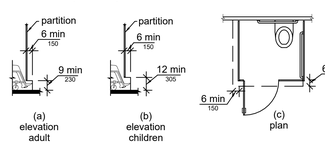
(a) Front partition (b) Side wall or partition



(c) Alternate Door Opening

**Figure 604.9.3.1 Wheelchair Accessible Toilet Compartment Door Openings**

**604.9.4 Approach.** Wheelchair accessible compartments shall be arranged for left-hand or right-hand approach to the water closet.
**604.9.5 Toe Clearance.** Toe clearance for compartments primarily for children's use shall comply with Section 604.9.5.2. Toe clearance for other wheel chair accessible compartments shall comply with Section 604.9.5.1.
**604.9.5.1. Toe Clearance at Compartments.** The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) min. above the floor and extending 6 inches (150 mm) beyond the compartment side face of the partition, exclusive of partition support members.
**EXCEPTIONS:**
**1.** Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) in depth with a wall-hung water closet, or greater than 65 inches (1650 mm) in depth with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide.
2. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) in width.



(a) elevation adult (b) elevation children (c) plan

**Figure 604.9.5 Wheelchair Accessible Toilet Compartment Toe Clearance**

**604.9.5.2 Toe Clearance at Compartments for Children's Use.** The front partition and at least one side partition of compartments primarily for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the floor and extending 6 inches (150 mm) beyond compartment side face of the partition, exclusive of partition support members.
**EXCEPTIONS:**
1. Toe clearance at the front partition is not required in a compartment greater than 65 inches (1650 mm) in depth.
2. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) in width.
**604.9.6 Grab Bars.** Grab bars shall comply with Section 609. Side-wall grab bars complying with 604.5.1 located on the wall closest to the water closet, and a rear wall grab bar complying with 604.5.2 shall be provided.
**604.10 Ambulatory Accessible Compartments.**

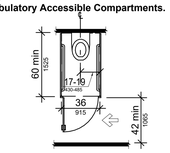
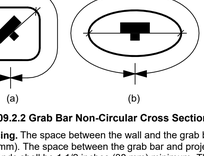



**Figure 604.8.2 Ambulatory Accessible Compartment**

**604.10.1 General.** Ambulatory accessible compartments shall comply with Section 604.10.
**604.10.2 Size.** The minimum area of an ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and 36 inches (915 mm) in width.
**604.10.3 Doors.** Toilet compartment doors, including door hardware, shall comply with Section 404, except that if the approach is to the latch side of the compartment door, the clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.6 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.
**604.10.4. Grab Bars.** Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

**605 Urinals**
**605.1 General.** Urinals shall comply with 605
**605.2 Height and Depth.** Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the wall.



(a) wall hung type (b) stall type

**Figure 605.2 Height and Depth of Urinals**

**605.3 Clear Floor Space.** A clear floor or ground space complying with 305 positioned for forwardapproach shall be provided.
**605.4 Flush Controls.** Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

**606 Lavatories and Sinks**
**606.1 General.** Lavatories and sinks shall comply with 606.

**606.2 Clear Floor Space.** A clear floor space complying with 305.3, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided. The dip of the overflow shall no be considered in determining knee and toe clearance.
**EXCEPTIONS:**
**1.** A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
**2.** A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance.
**3.** A knee clearance of 24 inches (610 mm) minimum above the finish floor shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor.
**4.** A parallel approach complying with 305 and centered on the sink, shall be permitted at lavatories and sinks used primarily by children 5 years and younger.
**5.** The requirement for knee and toe clearance shall not apply to more than one bowl of a multi-bowl sink.
**6.** A parallel approach complying with Section 305 and centered on the sink, shall be permitted at wet bars.

**606.3 Height.** The front of lavatories and sinks shall be 34 inches (865 mm) maximum above the finish floor, measured to the higher of the rim or counter surface.
**EXCEPTIONS:** A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.

**606.4 Faucets.** Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.
**606.5 Lavatories with Enhanced Reach Range.** Where enhanced reach range is required at lavatories, faucets and soap dispenser controls shall have a reach depth of 11 inches (280 mm) maximum or, if automatic shall be activated within a reach depth of 11 inches (280 mm) maximum. Water and soap flow shall be provided with a reach depth of 11 inches (280 mm) maximum.
**606.5 Exposed Pipes and Surfaces.** Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks

**609 Grab Bars**
**609.1 General.** Grab bars in toilet facilities and bathing facilities shall comply with 609.
**609.2 Cross Section.** Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.
**609.2.1 Circular Cross Section.** Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.
**609.2.2 Non-Circular Cross Section.** Grab bars with non-circular cross sections shall have a cross section dimension of 2 inches (51 mm) max. and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.



(a) (b)

**Figure 609.2.2 Grab Bar Non-Circular Cross Section**

**609.3 Spacing.** The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.
**EXCEPTION:** The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

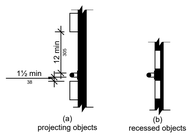



**Figure 609.3 Spacing of Grab Bars**

**609.4 Position of Grab Bars.** Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.
**609.5 Surface Hazards.** Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.
**609.6 Fittings.** Grab bars shall not rotate within their fittings.
**609.7 Installation.** Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.
**609.8 Structural Strength.** Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

**701 General**
**701.1 Scope.** The provisions of Chapter 7 shall apply where required by Chapter 2 or where referenced by a requirement in this document..
**702 Fire Alarm Systems**
**702.1 General.** Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).
**EXCEPTION:** Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.
**703 Signs**
**703.1 General.** Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.
**703.2 Raised Characters.** Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.
**703.2.1 Depth.** Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.
**703.2.2 Case.** Characters shall be uppercase.
**703.2.3 Style.** Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.
**703.2.4 Character Proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".
**703.2.5 Character Height.** Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".
**EXCEPTION:** Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2 inch (13 mm) minimum.

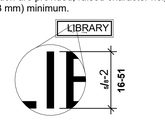



**Figure 703.2.5 Height of Raised Characters**

**703.2.6 Stroke Thickness.** Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.
**703.2.7 Character Spacing.** Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.
**703.2.8 Line Spacing.** Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.
**703.3 Braille.** Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.
**703.3.1 Dimensions and Capitalization.** Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:** Kyle Wojciechowski 214-766-3410
**Architect:** Contact: Dan Marta 469-455-1532


TRACTOR SUPPLY Co.

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037


COPYRIGHT PARKWAY C&A, LP ©2025


ACCESSIBILITY SHEET

A0.21

# TSC Remodel Building Assessment (RBA)- Contractor SOW Form

## ALBUQUERQUE, NM

| PROJECT INFO | | STORE INFO | |
|---|---|---|---|
| PROJECT TYPE: | | ADDRESS: | 465 Coors BLVD NW |
| BUILDING TYPE: | | PHONE #: | |
| FOD LOCATION: | | SM Info: | |
| Facility Specialist | | DM Info: | |
| | | STORE DIMENSIONS | |
| | | VESTIB. SF: | |
| | | SALES SF: | |
| | | CORE SF: | |
| FEED ROOM | | M RR SF: | |
| HAY TRAILER | | W RR SF: | |
| DETACHED STORAGE | | BREAK SF: | |
| | | SM/DM SF: | |
| DATES | | PRESALES SF: | |
| SITE VISIT: | | FOD SF: | |
| | | IOD SF: | |
| COMPLETED: | | PARKING SF: | |
| SOW Submission: | | CEILING HT: | |

| SITE AREA | LL / TSC | Work to be completed | Quantity |
|---|---|---|---|
| **EXTERIOR** | | | |
| **GENERAL / SOFT COSTS** | | | |
| Permit Fee | TSC | Estimated | 1 |
| Architecture Fees | TSC | Estimated | 1 |
| Environmental Testing / Surveys | TSC | Asbestos | 1 |
| Door Hardware | TSC | Locksets / Instakey | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **PARKING FIELD** | | | |
| SURFACE (GENERAL / STRUCTURAL) | | Parking lot surface is in overall good condition. No repairs are needed. | |
| SURFACE (SEAL / STRIPE) | | | |
| PARKING CURBS | | Existing in good condition. | |
| HANDICAP SIGNS | | Existing in good condition. | |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| VETERANS PARKING SIGNS / BOPIS SIGNAGE | TSC | Add two veterans parking signs and two BOPIS signs on McCue bumper posts per SCP. | 4 |
| TRAILER DISPLAY AREA | TSC | Stripe trailer display area per plans. | 1 |
| OTHER | | NOTE: Customer loading area not needed as we have a dirve through FOD. No cost to stripe included in this budget. | |
| OTHER | | Input additional information | |
| **EXTERIOR LIGHTING / SIGNAGE** | | | |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| POLE LIGHTING | TSC | Ensure all operational. | 1 |
| POLE LIGHTING (POLES / BASES) | | | |
| WALL PACKS | TSC | Ensure all are operational. | 1 |
| ADDITIONAL EXTERIOR LIGHTING | TSC | Add lighting per plans at new ramp for forklift access. | 1 |
| PYLON ROAD SIGN (OPERATION) | TSC | Repair outages as needed. This will be addressed with the vendor by the TSC PM. Do not bid. | 1 |
| PYLON SIGN (FACE / TRIM) | TSC | Replace pylon road sign faces with new. This will be addressed with the vendor by the TSC PM. Do not bid. | 1 |
| PYLON ROAD SIGN (POLE) | | | |
| BUILDING SIGN (FACE / TRIM) | TSC | Replace building sign with new. This will be addressed with the vendor by the TSC PM. Do not bid. | 2 |
| BUILDING SIGN (OPERATION) | TSC | Repair outages as needed. This will be addressed with the vendor by the TSC PM. Do not bid. | 2 |
| WING SIGNS | | N/A | |
| Bulk Propane | TSC | Add new bulk propane per plans. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **STORE FRONT** | | | |
| CURBING (TO INCLUDE LOT AND ISLANDS) | | | |
| SIDEWALK | TSC | Crack fill / patch to alleviate tripping hazards and pressure wash sidewalk. | 1 |
| CANOPY | TSC | Patch and paint. Ensure lighting is operational. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **WALLS - STRUCTURAL / FINISH / PAINT / ACCESS** | | | |
| STRUCTURAL | | No evident structural concerns. | |
| PAINT (FRONT) | TSC | Paint front of building using Standard Criteria Plans scope of work for exterior painting. Fill all penetrations prior to painting. Repair/resolve any water penetrating issues prior to painting. | 1 |
| PAINT (RIGHT) | TSC | Paint right side of building using Standard Criteria Plans scope of work for exterior painting. Fill all penetrations prior to painting. Repair/resolve any water penetrating issues prior to painting. Paint roof ladder gray if applicable. | 1 |
| PAINT (LEFT) | TSC | Paint left side of building using Standard Criteria Plans scope of work for exterior painting. Fill all penetrations prior to painting. Repair/resolve any water penetrating issues prior to painting. Paint roof ladder gray if applicable. | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| PAINT (BACK) | TSC | Paint rear of building using Standard Criteria Plans scope of work for exterior painting. Fill all penetrations prior to painting. Repair/resolve any water penetrating issues prior to painting. Paint roof ladder gray if applicable. | 1 |
| BOLLARDS | | N/A. | |
| ELECTRICAL | TSC | Add power outlets on exterior of building per TSC plans. | 2 |
| WATER ACCESS | TSC | Install new faucets per TSC plans. | 2 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **DOCK\| RAMP AREA** | | | |
| SURFACE | | | |
| BUMPERS | TSC | Replace dock bumpers per specified quantity. | 2 |
| RAILING | TSC | Straighten and repair all railing as needed. To included splayed concrete bases. Paint all railing gray. | 1 |
| BOLLARDS OUTSIDE WAREHOUSE | TSC | Add bollards at roll up door. | 4 |
| OTHER | TSC | Create new opening for forklift ground level access per plans at loading area. Install new 10' X 10' OH door. Install 4 bollards at door. Construct concrete ramp per plans to include railing. | 1 |
| OTHER | | | |
| OTHER | | | |
| OTHER | | **NOTE: OPTION at loading dock to lower cost would be to widen existing loading dock door and pour concrete ramp at side towards drive lane which would eliminate new opening and ramp at right elevation behind loading dock.** | |
| **DUMPSTER** | | | |
| FENCING | | Reuse existing. | |
| SURFACE | | | |
| BOLLARDS | | | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **FENCED DISPLAY AREA** | | | |
| SURFACE | TSC | Create new FOD per plans. | 1 |
| SURFACE (SEAL/STRIPE, DRIVE LANE ONLY) | TSC | Clear existing striping and restripe per plans. | 1 |
| FENCE (FABRIC/)REPAIRS NEED(ED: | | | |
| FENCE (TYPE) | | | |
| BARBED WIRE | | N/A | |
| BOLLARDS | | N/A | |
| GATES | | | |
| PK BEAMS | | | |
| FOD CANOPY | | | |
| OTHER | TSC | Create new opening for forklift ground level access per plans at FOD area. Install new 10' X 10' OH door. Install 4 bollards at door. Construct concrete ramp per plans to include railing. Curbing will need reworked and landscaping removed and likely installed in another area. Asphalt will need to be paved to match existing. | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| OTHER | | **NOTE: City may not allow removal of the fire lane at the rear of where the FOD shows and landscape area is currently.** | |
| OTHER | TSC | Paint sidewalk curb safety yellow in FOD. | 1 |
| **GREENHOUSE / LGC** | | | |
| Building Material Only | | N/A | |
| Installation | | N/A | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **FEED ROOM** | | | |
| Building MaterialOnly | | N/A | |
| Installation | | Feed room installation only. | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **PROPANE** | | | |
| Bulk Propane | | See above. | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **INTERIOR** | | | |
| **VESTIBULE** | | | |
| STRUCTURAL | TSC | Paint all applicable painted surfaces white. Insure both inside and outside bottom metal glass tracks are sealed to concrete to keep water from leaking under metal into vestibule. | 1 |
| GLASS | TSC | Clean glass. Cost covered with commercial cleaning. If any glass if broken at time of remodel, bid as alternate to replace broken glass. Insure all seals around glass are tight. | 1 |
| FLOORING | TSC | Remove carpet. Grand and polish concrete. | 1 |
| CEILING | TSC | Replace all ACTand assure all are sitting properly in grid. | 1 |
| LIGHTS | TSC | Assure all are operational. | 1 |
| ELECTRICAL | TSC | Add outlets on adjacents sides of the vestibule in ACT. | 2 |
| EXTERIOR AUTO DOORS | TSC | Service existing | 2 |
| INTERIOR AUTO DOORS | TSC | Service existing | 2 |
| OTHER | | | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **SALES FLOOR** | | | |
| PAINT | TSC | Paint interior sales floor walls to match existing including red stripe and. Paint all walls that are visible to the customer. Paint columns gray. Install corner guards on all outside corners. GC to order corner guards from McCue. Install cove base on wall behind Air Compressor displays. | 1 |
| DRESSING ROOM | | | |
| STRUCTURAL | | | |
| CEILING | TSC | Replace up to 1,000 sq. ft. of ACT in base bid. | 1 |
| FLOORING | TSC | Replace up to _ sq. ft. of vct in base bid. | 1 |
| FLOORING / LVT | TSC | Install new LVT per plans. | 1 |
| LIGHTING | TSC | Replace outages as needed / straighten lighting rows throughout building to include core area. | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| ELECTRICAL (TYPICAL) / CORD REEL | TSC | Add retractable cord reels for Chick Day POD per F1. | 1 |
| FUSION - CARHARTT ELECTRICAL | | N/A | |
| FUSION - ELECTRICAL | TSC | Add all required power/drops for Fusion set per the F1. | 1 |
| SIDE LOT DOORS | TSC | Cut opening per plans and install new glass side lot doors. | 1 |
| ADDITIONAL DOORS | | N/A | |
| SWING STYLE DOUBLE WAREHOUSE DOORS | TSC | Replace existing swing style double doors with new red Chase swing doors. | 1 |
| HUB INSTALLATION | TSC | Reuse existing. Clean Service Counter and touch up paint as needed. | 1 |
| IOD | TSC | Paint IOD. Ensure all lighting is operational. Remove VCT, grind and seal concrete. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **HALLWAY \| ALCOVE AREA** | | | |
| WALLS / PAINT | TSC | Expland opening at fountain per plans. Existing to be re-used. Thoroughly disinfect, all penetrations repaired and painted TSC beige. Install corner guards on all out side corner. GC to order corner guards from McCue | 1 |
| CEILING | | Good condition. | |
| FLOORING | | Good condition. | |
| LIGHTING | TSC | Ensure operational. | 1 |
| DRINKING FOUNTAIN | TSC | Replace existing unit(s) with a new ADA compliant unit with bottle filler (must use TSC spec per SCP). Install FRP 4' up at unit. Insure unit is secured to wall | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **MEN'S RESTOORM** | | | |
| WALLS \| PAINT | TSC | Existing restroom to be reused. Porcelain to be thoroughly cleaned, disinfected, all penetrations repaired and painted TSC beige. Replace FRP 4 ft. up if present. Only use white FRP. Existing is FRP floor to ceiling. | 1 |
| DOOR | TSC | Paint doors. Adjust door and closer. Re-caulk frame to wall if needed. Clean off old caulk prior to installing new bead of caulk. Ensure caulk is clean/smooth transition from frame to wall. Polish handle, kick plate if applicable, and hinges after door is painted. Install door silencers. Install door stops if needed. | 1 |
| FLOORING | TSC | Replace damaged VCT as needed. | 1 |
| CEILING | TSC | Replace all ACT. Ensure all ACT are sitting flush in grid. Ensure all grid is not damaged and free of paint. | 288 |
| STALL PARTITIONS | TSC | Replace existing partitions with new units. | 1 |
| COMMODES | TSC | Clean commode, hardware, and replace seat. Hardware includes, escutcheon trim ring, valve, and supply line. If hardware is not cleanable bid as alternate to replace hardware. Hardware includes, escutcheon trim ring, valve, caps and supply line. Caulk base of commode to floor (white). | 2 |
| URINAL | TSC | Add touchless application. Clean existing unit and caulk to wall. Ensure caulk is clean/smooth transition from urinal to wall. Clean existing hardware. Hardware includes, escutcheon trim ring, valve, and supply line. If hardware will not come clean bid as alternate to replace. | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| SINK | TSC | Clean wall mounted sinks and caulk to wall. Ensure caulk is clean/smooth transition from sink to wall. Clean existing hardware. Hardware includes, escutcheon trim ring, valve, and supply line. If hardware will not come clean bid as alternate to replace. Replace ADA wraps. | 2 |
| LIGHTING | TSC | Ensure operational. | 1 |
| EXHAUST FAN | TSC | Clean vent cover. Cost covered with commercial cleaning. Bid as alternate if unit needs to be replaced at time of remodel. | 1 |
| HAND DRYERS | TSC | Remove paper towel holder and install new dryer per plans with metal plate. | 1 |
| MIRROR | TSC | Replace mirror with new per SCP. Caulk mirror to wall with clear caulk. | 2 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **WOMEN'S RESTOORM** | | | |
| WALLS / PAINT | TSC | Existing restroom to be reused. Porcelain to be thoroughly cleaned, disinfected, all penetrations repaired and painted TSC beige. Replace FRP 4 ft. up if present. Only use white FRP. Existing is FRP floor to ceiling. | 1 |
| DOOR | TSC | Paint doors. Adjust door and closer. Re-caulk frame to wall if needed. Clean off old caulk prior to installing new bead of caulk. Ensure caulk is clean/smooth transition from frame to wall. Polish handle, kick plate, and hinges after door is painted. Install door silencers. install door stops if needed. | 1 |
| FLOORING | TSC | Replace VCT as needed. | 1 |
| CEILING | TSC | Replace all ACT. Ensure all ACT are sitting flush in grid. Ensure all grid is not damaged and free of paint. | 288 |
| STALL PARTITIONS | TSC | Replace existing partitions with new. | 1 |
| COMMODE | TSC | Clean commode, hardware, and replace seat. Hardware includes, escutcheon trim ring, valve, and supply line. If hardware is not cleanable bid as alternate to replace hardware. Hardware includes, escutcheon trim ring, valve, caps and supply line. Caulk base of commode to floor (white). | 3 |
| SINK | TSC | Clean 1 wall mounted sink and caulk to wall. Ensure caulk is clean/smooth transition from sink to wall. Clean existing hardware. Hardware includes, escutcheon trim ring, valve, and supply line. If hardware will not come clean bid as alternate to replace. Replace ADA wraps. | 2 |
| LIGHTING | TSC | Ensure operational. | 1 |
| EXHAUST FAN | TSC | Clean vent cover. Cost covered with commercial cleaning. Bid as alternate if unit needs to be replaced at time of remodel. | 1 |
| MIRROR | TSC | Replace mirror with new per SCP. Caulk mirror to wall with clear caulk. | 2 |
| HAND DRYERS | TSC | Remove paper towel holder and install new dryer per plans with metal plate. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **BREAK ROOM** | | | |
| WALLS / PAINT | TSC | Existing to be re-used. Thoroughly disinfect. All penetrations repaired and painted TSC beige. | 1 |
| FLOORING | TSC | Replace VCT as needed. | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| CEILING | TSC | Replace all ACT or clean as needed. Ensure all ACT are sitting flush in grid. Ensure all grid is not damaged and free of paint. | 150 |
| DOOR | TSC | Paint doors. Adjust door closer. Re-caulk frame to wall if needed. Clean off old caulk prior to installing new bead of caulk. Ensure caulk is clean/smooth transition from frame to wall. Polish handle, kick plate if existing, and hinges after door is painted. Install door silencers. install door stops if needed. | 1 |
| SINK / COUNTER ASSEMBLY LABOR TO INSTALL | TSC | Existing restroom not plumbed. No sink. Will need to add plumbing and our fixtures. Replace existing counter and sink with TSC's Standard Breakroom Cabinet, Counter, and Sink unit. TSC supplied GC installed. Remove and discard old unit. Upper cabinets will need bracing added in-between the studs, Cut the drywall, add a minimum of a 2X6 brace between metal studs to mount the upper cabinets. Cabinets should cover the drywall so no need to patch hole cut in wall. | 1 |
| LIGHTING | TSC | Ensure operational. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **MANAGER'S OFFICE** | | | |
| WALLS / PAINT | TSC | Existing to be re-used. Thoroughly disinfect. All penetrations repaired and painted TSC beige. | 1 |
| FLOORING | TSC | Replace VCT as needed | 1 |
| CEILING | TSC | Replace all ACT. Ensure all ACT are sitting flush in grid. Insure all grid is not damaged and free of paint. | 1 |
| LIGHTING | TSC | Ensure operational. | 1 |
| DOOR | TSC | Paint doors. Adjust door closer. Re-caulk frame to wall if needed. Clean off old caulk prior to installing new bead of caulk. Ensure caulk is clean/smooth transition from frame to wall. Polish handle, kick plate if existing, and hinges after door is painted. Install door silencers. install door stops if needed. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **WAREHOUSE** | | | |
| FLOORING | TSC | Crack fill / patch to alleviate tripping hazards. | 1 |
| CEILING | TSC | Open Deck. High dust throughout warehouse (ceiling and walls). | 1 |
| LIGHTING | TSC | Ensure operational. | 1 |
| BOLLARDS | | | |
| WALLS | | OK. Good condition. | |
| PALLET RACKING | | | |
| ELECTRICAL | TSC | Ensure all receptacles are working. Replace all damaged and or missing covers. | 1 |
| IDO | | | |
| IDO | | | |
| OTHER | | | |
| **WAREHOUSE DOORS** | | | |
| ROLL UP DOORS | | See above | |
| BOLLARDS INSIDE WAREHOUSE | | See above. | |
| MANUAL DOORS | | | |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **PLUMBING** | | | |
| MOP SINK | | Reuse existing unit. | |
| WATER HEATER | | | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **ROOF \| GUTTER \| DRAIN** | | | |
| ROOF SURFACE CONDITION | | | |
| GUTTER / DRAINAGE / FLASHING | | | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **HVAC** | | | |
| HVAC CONDITION (EXISTING) | | | |
| HVAC - RECOMMENDATIONS | TSC | HVAC maintenance / repairs. | 1 |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| **PET WASH** | | | |
| WALLS / PAINT | TSC | Construct new pet wash per plans. | 1 |
| FLOORING | | | |
| CEILING | | | |
| DOOR | | | |
| FIXTURES / INSTA-HOT WATER HEATER | | | |
| ESTIMATED COST | | | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |
| OTHER | | Input additional information | |

## ALTERNATES | MISC. | OTHER

| | | | |
|---|---|---|---|
| 'IIRED ON ALL JOBS | | **Paint yellow stripe down the center of the inside of the rolling steel rollup door that receives new stripe doors. Only paint stripe if plastic strip door is installed on the inside. On the inside, hang a 6 inch yellow painted PVC pipe at the height of the rolling steel rollup door that will warn folk lift driver that their forks are too high. If sectional door, hang 6 inch yellow painted PVC at the height of the exposed side of the track. If sectional door, do not paint stripe down the center.** | 1 |
| | | **Check primary roll up door (Door used by Forklift to exit building) for plastic curtain strips. If store currently has these, and they are damaged, missing, or non-translucent, please replace. Each strips should over lap 50%. If store does not have these on their primary roll up door, install new set. If sectional door, strips on exterior. If rolling steel door, strips on interior.** | 1 |
| | | **Contractor is to hire commercial cleaning company to remove all dirt and grime from the sales floor, bathrooms, break room, manager office, hallway, service counter, & cash wraps. At the side lot door & vestibule door remove all dirt and grime from interior & exterior frame & glass. This should be done at the end of the project prior to the punch date.** | 1 |



## ALBUQUERQUE, NM

| | | | |
|---|---|---|---|
| REQ | | **Any wall that is receiving paint is also to receive all new outlet covers to match as well as new cove base. Corner pieces required when replacing cove base.** | 1 |
| | | **All HVAC grills on sales floor, vestibule, rest rooms, break room, and Managers office to be cleaned.** | 1 |
| | | **GC to complete shell verification plan (column location, ceiling height, room dimensions, etc.)** | 1 |
| | | **All perimeter conduit to be painted to match walls. No horizontal conduit allowed on walls unless tight to deck.** | 1 |

## Alternates

Alternate #1
Description:

Alternate #3
Description:

Alternate #4
Description:

Alternate #5
Description:

## General Notes:

TSC is to provide Cash Wraps, Service Counter, Standard Chase Doors, & Employee Lounge Unit. All other material, fixtures, and equipment are by general contractor (GC). All items provided by GC are to follow current TSC Standard Criteria Plans and Specifications. It is the contractor's sole responsibly to ensure that they possess these documents for bidding and throughout construction phases (Plans, Scope Of Work, F1 - F10). If contractor can not locate materials, then contractor may submit an alternate for approval. If contractor installs alternate materials without prior approval he does so at his own risk. Installation of any material or finish is to follow manufacture's installation guidelines.

Work to be completed by Store Staff is as follows: Removal & installation of all poster, pictures, and personal effects from walls prior to painting at breakroom and manger's office. Directing the placement of merchandise prior to and after work is conducted at FOD. When aligning gondola wall, store staff is to remove and replace merchandise as needed. All other work is by General Contactor.

Any dimensions or quantities given in SOW are for reference ONLY. General Contractor is solely responsible for verifying all quantities and dimen In the case that the SOW and TSC SCP conflict, refer to written SOW and confirm with TSC Construction Manager.

GC is not authorized to complete any change-orders without formal written authorization from TSC Construction Manager.



CONSTRUCTION • ARCHITECTURE

PKWY
PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-769-3410

Architect:
Contact: Dan Marta
469-455-1632

TRACTOR SUPPLY Co

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: HH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

SCOPE OF WORK

A0.22

**PART 1 - GENERAL**

**1.01 QUALITY ASSURANCE**

A. READY-MIX CONCRETE SUPPLIER: A FIRM EXPERIENCED IN PRODUCING READY-MIXED CONCRETE THAT COMPLIES WITH ASTM C94 REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT. COMPLY WITH ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE."
1. MANUFACTURER CERTIFIED ACCORDING TO NRMCA'S "CERTIFICATION OF READY-MIXED CONCRETE PRODUCTION FACILITIES." CERTIFICATION SHALL NOT BE MORE THAN TWELVE MONTHS OLD.

B. CONCRETE CONTRACTOR QUALIFICATION: CONCRETE CONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE GENERAL CONTRACTOR, A MINIMUM OF THREE SIMILAR AND SUCCESSFUL PROJECTS THAT CLEARLY INDICATES THE ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE INTERIOR SLAB ON GROUND TOLERANCES REQUIRED IN THIS SPECIFICATION. THE CONCRETE CONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THE REFERENCED PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGHOUT THE DURATION OF THIS PROJECT. CONCRETE CONTRACTOR'S QUALIFICATION SHALL BE SUBMITTED AS PART OF THE BID PACKAGE. THE OWNER HAS RIGHTS TO REJECT THE CONCRETE CONTRACTOR.

C. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, QUALIFIED ACCORDING TO ASTM C1077 AND ASTM E329 FOR TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E548.
1. PERSONNEL CONDUCTING FIELD TESTS SHALL BE QUALIFIED AS ACI CONCRETE FIELD TESTING TECHNICIAN, GRADE 1, ACCORDING TO ACI CP-01 OR AN EQUIVALENT CERTIFICATION PROGRAM.
2. PERSONNEL PERFORMING LABORATORY TESTS SHALL BE ACI-CERTIFIED CONCRETE STRENGTH TESTING TECHNICIAN AND CONCRETE LABORATORY TESTING TECHNICIAN -GRADE I. TESTING AGENCY LABORATORY SUPERVISOR SHALL BE AN ACI-CERTIFIED CONCRETE LABORATORY TESTING TECHNICIAN - GRADE II.

D. TRADE JOURNEYMEN: EXPERIENCED IN PLACING, CONSTRUCTION AND NEGOTIATING A TRACTOR SUPPLY PROJECT SHALL CONTACT EUCLID CHEMICAL TO OBTAIN A LIST OF TRAINED APPLICATORS LOCATED WITHIN THE GEOGRAPHIC REGION OF THE PROJECT. GENERAL CONTRACTORS SHALL SOLICIT AND ANTICIPATE PRICING ONLY FROM APPLICATORS TRAINED BY EUCLID CHEMICAL. **THE TRAINED APPLICATOR SELECTED FOR THE INITIAL APPLICATION OF JOINT FILLER AND LIQUID DENSIFIER/SEALER SHALL BE THE SAME AS FOR THE POLISHING PROCESS AND ADDITIONAL APPLICATION OF LIQUID DENSIFIER/SEALER.**
1. PHILIP BRANDT- EUCLID CHEMICAL - 877-438-3826 / PBRANDT@EUCLIDCHEMICAL.COM

**E. CONCRETE SLAB ON GROUND PRE-INSTALLATION CONFERENCE (TRACTOR SUPPLY REQUIREMENT): AT LEAST 30 DAYS PRIOR TO THE START OF CONCRETE SLAB CONSTRUCTION, THE GENERAL CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED CONCRETE MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIREMENTS OF THIS SPECIFICATION. THE GENERAL CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 10 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.**
**1. THE GENERAL CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:**
**a. GENERAL CONTRACTOR: PROJECT MANAGER AND SUPERINTENDENT**
**b. READY-MIX CONCRETE PRODUCER: QUALITY CONTROL MANAGER**
**c. CONCRETE CONTRACTOR: FOREMAN**
**d. TESTING AGENCY: PROJECT MANAGER AND FIELD REP FOR CONCRETE MIXES, QUALITY CONTROL, FLOOR TOLERANCE TESTING, ETC.**
**e. OWNER REPRESENTATIVE: IF REQUIRED**
**f. TRAINED APPLICATOR: LIQUID DENSIFIER SEALER AND JOINT FILLING APPLICATOR e. PHIL BRANDT- EUCLID CHEMICAL (877-438-3826) PBRANDT@EUCLIDCHEMICAL.COM**
**2. MINUTES OF THE MEETING SHALL BE RECORDED, TYPED, AND PRINTED BY THE GENERAL CONTRACTOR AND DISTRIBUTED TO ALL CONCERNED PARTIES, INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, AND TRACTOR SUPPLY PROJECT MANAGER, WITHIN THREE DAYS OF THE MEETING.**
**3. THE MINUTES SHALL INCLUDE A STATEMENT BY THE READY-MIX CONCRETE SUPPLIER STATING THAT THE PROPOSED CONCRETE MIX DESIGNS WILL PRODUCE THE CONCRETE QUALITY REQUIRED BY THESE SPECIFICATIONS.**
**4. THE MINUTES SHALL INCLUDE A STATEMENT BY THE CONCRETE CONTRACTOR THAT THE PROPOSED CONCRETE MIX DESIGNS WILL PROVIDE APPROPRIATE WORKABILITY AND SETTING TIMES, TO ENSURE THAT THE CONCRETE CONTRACTOR CAN ACHIEVE THE REQUIREMENTS OF THIS SPECIFICATION.**

**PART 2 - PRODUCTS**

**2.01 MATERIALS**

A. CONCRETE MATERIALS:
1. PORTLAND CEMENT: ASTM C150/C150M, TYPE I/II OR ASTM C-595, TYPE IL(PORTLAND LIMESTONE CEMENT). USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.
2. COARSE AND FINE AGGREGATES: ASTM C 33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP SIZE AGGREGATES (1½") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR ¾") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE.
a. FOOTINGS AND PIERS: UNLESS INDICATED OTHERWISE ON DRAWINGS, FOOTINGS AND PIERS SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1" (#57 STONE), AND BEAMS ¾" (#67 STONE).
b. INTERIOR SLAB ON GROUND: UNLESS INDICATED OTHERWISE ON DRAWINGS, INTERIOR SLAB ON GROUND SHALL HAVE A MAXIMUM COARSE AGGREGATE SIZE OF 1" (#57 STONE).
c. EXTERIOR SLAB ON GROUND: UNLESS INDICATED OTHERWISE ON DRAWINGS, EXTERIOR SLAB ON GROUND SHALL HAVE A MAXIMUM COARSE AGGREGATE SIZE OF 1" (#57 STONE).
3. WATER: COMPLYING WITH ASTM C94.
4. AIR-ENTRAINING ADMIXTURE (**INTERIOR SLAB ON GROUND**): **AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED FOR INTERIOR SLAB ON GROUND CONCRETE WORK.**
5. AIR-ENTRAINING ADMIXTURE (**EXTERIOR SLAB ON GROUND CONCRETE**) : ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLAB ON GROUND SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 OR AIR 40; MASTER BUILDERS SOLUTIONS MICRO AIR; GRACE CONSTRUCTION PRODUCTS OR DAREX.
6. WATER-REDUCING ADMIXTURE: ASTM C494, TYPE A CONTAINING NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL EUCON SERIES; MASTER BUILDERS SOLUTIONS POZZOLITH SERIES; GRACE CONSTRUCTION PRODUCTS WRDA OR DARACEM SERIES.
7. WATER-REDUCING, RETARDING ADMIXTURE: ASTM C494, TYPE D CONTAINING NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75; MASTER BUILDERS SOLUTIONS POZZOLITH SERIES OR DELVO; GRACE CONSTRUCTION PRODUCTS DARATARD 17.
8. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): ASTM C494, TYPE F OR G CONTAINING NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL EUCON 37; MASTER BUILDERS SOLUTIONS RHEOBUILD 1000; GRACE CONSTRUCTION PRODUCTS DARACEM-100.
9. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: ASTM C494, TYPE C OR E CONTAINING NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 OR NCA; MASTER BUILDERS SOLUTIONS NC534 OR POZZUTEC 20; GRACE CONSTRUCTION PRODUCTS POLARSET.
10. PROHIBITED ADMIXTURES:
a. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED.
b. FLY ASH IS ONLY PERMITTED IN EXTERIOR SLAB ON GROUND SUBJECT TO ALKALI SILICA REACTIVITY (ASR); UP TO 20% EXCHANGE BY WEIGHT
11. MACRO-SYNTHETIC FIBERS (**INTERIOR AND EXTERIOR SLAB ON GROUND CONCRETE**) : COMPLY WITH ASTM C1116. "STRUCTURAL" FIBERS SHALL BE A PATENTED COARSE MONOFILAMENT, SELF-FIBRILLATING, POLYPROPYLENE/POLYETHYLENE FIBER WITH A MINIMUM TENSILE STRENGTH OF 73KSI AND MINIMUM LENGTH OF 2 INCHES.
a. ACCEPTABLE MACRO-SYNTHETIC FIBER (NO SUBSTITUTIONS): "TUF-STRAND SF" BY EUCLID CHEMICAL, PHIL BRANDT 877-438-3826 / PBRANDT@EUCLIDCHEMICAL.COM
12. EVAPORATION RETARDER AND FINISH AID: INTEGRAL FINISHING AID THAT REDUCES RAPID MOISTURE LOSS FROM CONCRETE SURFACE.
a. ACCEPTABLE PRODUCT: EUCLID CHEMICAL "EUCOSHIELD."

B. RELATED MATERIALS:
1. EVAPORATION RETARDER: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
a. ACCEPTABLE MANUFACTURER: "EUCOBAR" BY EUCLID CHEMICAL.
2. INTERIOR SLAB ON GROUND CURING: ASTM C309 WITH A MAXIMUM VOC CONTENT OF 350G/L. THE INTERIOR SLAB ON GROUND SHALL BE CURED USING A REDUCED ODOR, DISSIPATING OR REMOVABLE LIQUID MEMBRANE FORMING CURING COMPOUND.
a. ACCEPTABLE MANUFACTURER: "KUREZ DR VOX" OR "KUREZ DR 100" BY EUCLID CHEMICAL.
3. INTERIOR SLAB ON GROUND SEMI-RIGID POLYUREA JOINT FILLER: COMPLY WITH ACI 302, SHALL BE A TWO (2) COMPONENT, 100% SOLIDS, UV RESISTANT COMPOUND, WITH MINIMUM SHORE "A" HARDNESS OF 80. COLOR TO MATCH ADJACENT CONCRETE SURFACES.
a. ACCEPTABLE MANUFACTURER: "QWIKJOINT UVR" BY EUCLID CHEMICAL.
4. INTERIOR SLAB ON GROUND LIQUID DENSIFIER/SEALER: SODIUM SILICONATE CONTAINING AT LEAST 24% SOLIDS BY WEIGHT.
a. ACCEPTABLE MANUFACTURER: "EUCO DIAMOND HARD" BY EUCLID CHEMICAL.
b. PROJECT SERVICE: GENERAL CONTRACTOR SHALL CONTACT THE MANUFACTURER PRIOR TO BIDDING FOR PRICING AND APPLICATION REQUIREMENTS, AND AT LEAST 10 DAYS PRIOR TO APPLICATION OF LIQUID DENSIFIER AND SEALER, FOR JOBSITE SERVICE. IF NECESSARY, THE REPRESENTATIVE WILL BE ON SITE DURING THE FIRST APPLICATION OF LIQUID DENSIFIER/SEALER.
5. EXTERIOR SLAB ON GROUND CURING: ASTM C1315 WITH A MAXIMUM VOC CONTENT OF 700 G/L. ALL EXTERIOR SLAB ON GROUND SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND.
a. ACCEPTABLE MANUFACTURER: "SUPER DIAMOND CLEAR" OR "SUPER DIAMOND CLEAR VOX" BY EUCLID CHEMICAL.
6. EXTERIOR SLAB ON GROUND URETHANE JOINT SEALANT: ASTM C920-86, TYPE S, GRADE NS, AND CLASS 25 INDUSTRIAL GUN GRADE POLYURETHANE SEALANT SHALL EXHIBIT A SHORE "A" HARDNESS OF 40 AND AN ELONGATION OF 250%.
a. ACCEPTABLE MANUFACTURER: "EUCOLASTIC 1 NS/SL" BY EUCLID CHEMICAL.

**2.02 CONCRETE MIXES**

A. COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXES. CONCRETE MIXES SHALL BE PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL-WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA.
B. COMPRESSIVE STRENGTH:
1. INTERIOR SLAB ON GRKLIND: 4000 PSI @ 28 DAYS, WITH A MAXIMUM WATER/CEMENT RATIO OF 0.53, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. EXTERIOR SLAB ON GROUND: 4000 PSI @ 28 DAYS, WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. IF MIX REQUIREMENTS, IF SUFFICIENT BACKUP DATA IS NOT AVAILABLE, THE LABORATORY MIX SHALL EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES OF THE MIX SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK BEGINS.

C. SLUMP: CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 5½" FOR THE INTERIOR AND EXTERIOR SLABS ON GROUND. UNLESS INDICATED ON DRAWINGS, ALL OTHER CONCRETE SHALL NOT EXCEED A 4" SLUMP.
D. MACRO-SYNTHETIC FIBER ADDITION: ALL EXTERIOR SLAB ON GROUND SHALL CONTAIN THE SPECIFIED MACRO-SYNTHETIC FIBER USED AT A RATE OF NO LESS THAN 3.0 LBS./CYD. ACTUAL FIBER DOSAGE MAY VARY BASED ON JOB-SITE CONDITIONS AND SHALL BE CALCULATED BY STRENGTH EQUIVALENCY TO CONVENTIONAL REINFORCEMENT REQUIREMENTS. REQUIRED INFORMATION MAY INCLUDE, BUT NOT BE LIMITED TO SITE PREP, SUBBASE, AND CONCRETE PROPERTIES, CURING, AND LOADING CONDITIONS. THE "ENGINEER OF RECORD" SHALL CONTACT EUCLID CHEMICAL TO DISCUSS ACTUAL PROJECT CONDITIONS AND THE RESULTANT REQUIRED FIBER DOSAGE RATE. FIBERS MAY BE ADDED AT PLANT LOCATION OR JOBSITE AND SHALL BE MIXED IN CONCRETE FOR A MINIMUM OF 4 MINUTES.
**EUCLID CONTACT: MIKE MAHONEY: 216-692-8301**
E. ADJUSTMENT TO CONCRETE MIXES: MIX ADJUSTMENTS MAY BE REQUESTED BY THE GENERAL CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO THE OWNER AND AS ACCEPTED BY THE OWNER. LABORATORY TEST DATA FOR REVISED MIX AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY THE OWNER PRIOR TO WORK. TESTING AGENCY AND CONCRETE CONTRACTOR SHALL VERIFY THAT THE CONCRETE MIX DESIGN WILL PRODUCE CONCRETE THAT WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE GENERAL CONTRACTOR AND CONCRETE CONTRACTOR SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR CONCRETE INSTALLATIONS. PLACEMENT SHALL BE MADE BY CONCRETE TRUCK CHUTE. IF CONCRETE PUMPING IS REQUIRED, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT. FOR CONCRETE CONTAINING MACRO-SYNTHETIC FIBERS, ADDITIONAL WATER MIGHT ALSO BE NECESSARY. THE ADDITION OF WATER IS NOT PERMITTED INTO CONCRETE MIXTURE AFTER THE ADDITION OF MACRO-SYNTHETIC FIBERS.
**F. INTERIOR SLAB ON GROUND CONCRETE:** CONCRETE SHALL BE DESIGNED TO MEET 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS AND EXHIBIT <0.04% SHRINKAGE @ 28 DAYS. THE MIX SHALL CONTAIN APPROXIMATELY 12 CUBIC FEET OF 1" TOP SIZE AGGREGATE (#57 STONE), THE SPECIFIED WATER REDUCING ADMIXTURE, AND ACHIEVE A W/CM RATIO OF 0.53 (MAX.). AIR-ENTRAINMENT IS PROHIBITED. PROPOSED MIX DESIGN SHALL BE SIMILAR TO THE FOLLOWING:

**INTERIOR SLAB ON GROUND PROTOTYPE MIX:**

| MATERIALS | PROTOTYPE MIX |
|---|---|
| CEMENT | 517-564 LBS. |
| FLY ASH/SLAG | PROHIBITED |
| COARSE AGGREGATE | 12 CUBIC FEET +/- .50 (#57 STONE) |
| FINE AGGREGATE | 7 CUBIC FEET +/- (ADJUST AS NECESSARY) |
| WATER CONTENT | 274 - 298 LBS. |
| AIR CONTENT (ENTRAPPED AIR ONLY) | 3.0% (MAX.) |
| WATER REDUCER (TYPE A/F) | 3OZ.-10 OZ. / 100WT +/- (MID-RANGE |
| W/CM RATIO | 0.53 (MAX.) |
| INITIAL SLUMP (WATER) | 3" |
| FINAL SLUMP (WITH WATER REDUCER) | 5.5" (MAX.) |
| MACRO SYNTHETIC FIBER* | 3.0 LBS / CUBIC YARD (MIN.) |
| (TUF-STRAND SF) MAXIMUM SHRINKAGE | < 0.04% @ 28 DAYS |

***MACRO SYNTHETIC FIBERIS AN APPROVED ALTERNATE FOR INTERIOR SLAB**
****MACRO SYNTHETIC FIBER DOSAGE AS SPECIFIED, UNLESS OTHERWISE NOTED BY ENGINEER OF RECORD**

**G.EXTERIOR SLAB ON GROUND CONCRETE:** CONCRETE SHALL BE DESIGNED TO MEET 4000 PSI COMPRESSIVE STRENGTH @ 28 DAYS AND EXHIBIT <0.04% SHRINKAGE @ 28 DAYS. THE MIX SHALL CONTAIN APPROXIMATELY 12 CUBIC FEET OF 1" TOP SIZE AGGREGATE (#57 STONE), THE SPECIFIED WATER REDUCING ADMIXTURE AND ACHIEVE A W/CM RATIO OF 0.45 (MAX.). AIR-ENTRAINMENT SHALL BE AS SPECIFIED. PROPOSED MIX DESIGN SHALL BE SIMILAR TO THE FOLLOWING:

**EXTERIOR SLAB ON GROUND PROTOTYPE MIX:**

| MATERIALS | PROTOTYPE MIX |
|---|---|
| CEMENT | 517-564 LBS. |
| FLY ASH/SLAG | PROHIBITED EXCEPT IN AREAS SUBJECT TO ALKALI SILICA REACTIVITY (UP TO 20% BY WEIGHT EXCHANGE) |
| COARSE AGGREGATE | 12 CUBIC FEET +/- .50 (#57 STONE) |
| FINE AGGREGATE | 7 CUBIC FEET +/- (ADJUST AS NECESSARY) |
| WATER CONTENT | 232 - 253 LBS. (OR LESS) |
| AIR CONTENT (ENTRAINED AIR) | 6.0% (MAX.) |
| WATER REDUCER (TYPE A/F) | 3OZ.-10OZ. / 100WT +/- (MID-RANGE) |
| W/CM | 0.45 (MAX.) |
| INITIAL SLUMP (WATER) | 3" |
| FINAL SLUMP (WITH WATER REDUCER) | 5.5" (MAX.) |
| MACRO SYNTHETIC FIBER (TUF-STRAND SF) | 3 LBS / CUBIC YARD (MIN.) |
| MAXIMUM SHRINKAGE | < 0.04% @ 28 DAYS |

**PART 3 - EXECUTION**

**3.01 INSTALLATION (GENERAL)**

A. BASE MATERIAL: LOCAL STATE DEPARTMENT OF TRANSPORTATION APPROVED ROAD BASE MATERIAL WITH 100 PERCENT PASSING THE 1.5" (38 MM) SIEVE, 15 PERCENT TO 55 PERCENT PASSING THE NO. 4 (4.75 MM) SIEVE, AND LESS THAN 12 PERCENT PASSING THE NO. 200 SIEVE). INSTALL "CRUSHER RUN" BASE TYPE MATERIAL TO THE MINIMUM COMPACTED THICKNESS AS INDICATED ON THE CONSTRUCTION DOCUMENTS. CRUSHED STONE SHALL BE COMPACTED TO 98% MODIFIED PROCTOR DENSITY IN ACCORDANCE WITH ASTM D1557. THE IN-PLACE DENSITY SHALL BE TESTED FOR COMPLIANCE NO MORE THAN 48 HOURS PRIOR TO CONCRETE PLACEMENT USING ASTM D1556, ASTM D2167, OR ASTM D2922. ONE COPY OF TEST RESULTS SHALL BE FORWARDED TO THE OWNER.
B. FORMWORK: DESIGN, CONSTRUCT, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK ACCORDING TO ACI 301.
1. FORMS FOR EXPOSED CONCRETE: FOR ALL SLABS, STAIRS AND OTHER FORMED CONCRETE WITH METAL FORMS OR 5/ PLYWOOD. FOR EXPOSED SURFACES USE FORMS WITH AN UNDAMAGED FACE. FORM TIES USED SHALL BE SNAP TIES. CONCRETE RELEASE AGENT SHALL BE A VOC COMPLIANT, LIGHT VISCOSITY, NON-STAINING OIL.
C. VAPOR RETARDER: ASTM E1643 (IF INDICATED ON DRAWINGS): INSTALL, PROTECT, AND REPAIR VAPOR-RETARDER SHEETS: PLACE SHEETS IN POSITION WITH LONGEST DIMENSION PARALLEL WITH DIRECTION OF POUR.
1. PLASTIC VAPOR RETARDER FOR CONCRETE FLOOR SLAB SHALL BE 10-MIL (MINIMUM) POLYETHYLENE. SEAL VAPOR RETARDER COMPLETELY AROUND ALL PIPES AND CONDUITS. INSPECT VAPOR RETARDER THOROUGHLY AND REPAIR ALL PUNCTURES AND TEARS IMMEDIATELY PRIOR TO PLACING CONCRETE. ALL LAPS SHALL BE 18" MINIMUM AND SEALED WITH A COMPLETELY CONTINUOUS PRESSURE SENSITIVE TAPE.
D. STEEL REINFORCEMENT: FABRICATE, PLACE, AND SUPPORT WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
1. DO NOT CUT OR PUNCTURE VAPOR RETARDER. REPAIR DAMAGE AND RESEAL VAPOR RETARDER BEFORE PLACING CONCRETE.
2. INSTALL ALL ANCHORS, TIES, CHAIRS, AND OTHER SUPPORTS AS PER ACI 301/302 REQUIREMENTS. TO ENSURE REINFORCING IS SUPPORTED AT PROPER LOCATIONS. ALL REINFORCING SHALL BE WIRED IN PLACE USING #16 ANNEALED WIRE. WOOD OR CLAY BRICK CHAIRS ARE NOT ACCEPTABLE.
3. WELDED WIRE FABRIC MESH (IF INDICATED ON DRAWINGS) SHALL BE LAPPED A MINIMUM OF 6" AT SIDE LAPS AND SECURED WITH TIE WIRES NO MORE THAN 4 FEET ON CENTER.

**3.02 CONCRETE PLACEMENT**

A. CARBON MONOXIDE / CARBON DIOXIDE EXPOSURE: IF THE BUILDING IS ENCLOSED AND THE INTERIOR SLAB ON GROUND IS PLACED LAST, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING INTERIOR SLAB ON GROUND EXPOSURE TO EXCESSIVE EXHAUST GASES CONTAINING CARBON DIOXIDE ($CO_2$) OR CARBON MONOXIDE (CO). TO MINIMIZE POTENTIAL DAMAGE TO THE INTERIOR SLAB ON GROUND DURING PLACEMENT AND CURING PERIODS, MAXIMUM $CO_2$ LEVELS SHALL BE 4,500 PARTS PER MILLION AND MAXIMUM CO LEVELS SHALL BE 15 PARTS PER MILLION AT CONCRETE SURFACE WITHIN 5 FEET OF ANY SOURCE OF EXHAUST GASES. UNVENTED COMBUSTION HEATERS SHALL NOT BE IN OPERATION DURING CONCRETE PLACEMENT, AND EQUIPMENT INSIDE THE BUILDING DURING CONCRETE PLACEMENT SHALL BE LIMITED TO THE EQUIPMENT NECESSARY TO PLACE AND FINISH CONCRETE. ONLY ELECTRIC CONCRETE TRUCK SHALL BE IN THE BUILDING AT ANY GIVEN TIME, AND UNDER NO CIRCUMSTANCE SHALL THERE BE ANY EARTH MOVING EQUIPMENT, DUMP TRUCKS, GRADING EQUIPMENT, OR ANY OTHER MOTORIZED EQUIPMENT IN THE BUILDING UNTIL AFTER THE INTERIOR SLAB ON GROUND IS PLACED AND PROTECTED BY SPECIFIED CURING METHOD. CARBON MONOXIDE AND CARBON DIOXIDE SHALL BE CHECKED USING AN APPROPRIATE METER FROM A COMPANY SIMILAR TO THE FOLLOWING: GEA INSTRUMENTS, INC., PHONE (201-967-5660); WEBSITE: WWW.CEAINSTR.COM.
B. COMPLY WITH REQUIREMENTS IN ACI 301 FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
1. COOPERATE WITH ALL OTHER TRADES. CONFER WITH ELECTRICAL, MECHANICAL, PLUMBING, CARPENTERS, STEEL WORKERS, ETC. MAKE SURE THAT ALL SLEEVES, ANCHOR, INSERT, CONDUIT, FLOOR BOXES, PIPES, FITTINGS, AND OTHER ITEMS ARE INSTALLED BEFORE PLACING CONCRETE. MAKE PROVISIONS FOR DOOR SADDLES, AND THRESHOLDS.
2. GENERAL CONTRACTOR SHALL ENSURE THE ACCURACY, PLACEMENT, AND ALIGNMENT OF ALL UNDER-SLAB WORK. THE PLACEMENT OF ALL BOXES SHALL BE SQUARE, LEVEL, AND TRUE IN ALL RESPECTS.
3. CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94.
C. COMPLY WITH ACI 305, "HOT WEATHER CONCRETE ," AND ACI 306, "COLD WEATHER CONCRETE" FOR PROTECTION DURING PLACING, FINISHING, AND CURING.
D. FORM-RELEASE AGENT: COAT ALL REMOVABLE WOOD AND METAL FORMING WITH A VOC COMPLIANT, NON-STAINING, CONCRETE FORM-RELEASE AGENT AND ALLOW EXCESS LIQUID TO DRAIN OFF BEFORE FORMS ARE PLACED.
E. TRANSPORT: PLACE AT POINT OF USE AND CONSOLIDATE WITH A CONCRETE VIBRATOR. DO NOT ALLOW CONCRETE TO SEGREGATE. MAXIMUM FREE FALL FOR CONCRETE IS 3 FEET. A VIBRATOR IS REQUIRED FOR PLACEMENT OF CONCRETE IN WALLS, PIERS, FOOTINGS, AND TURNDOWNS.
F. CONCRETE PLACEMENT: PLACE ON FIRM, UNDISTURBED EARTH, OR PROPERLY COMPACTED FILL. CONSOLIDATE BY VIBRATING WITHOUT SEGREGATION. DO NOT PLACE CONCRETE WHEN TEMPERATURE IS 40°F AND FALLING OR WHEN FREEZING WEATHER IS PREDICTED WITHIN 24 HOURS.
1. PLACE CONCRETE WITHIN THE MINIMUM TEMPERATURE RANGE AS SPECIFIED IN ACI 301.
2. PROTECT CONCRETE AS REQUIRED IN ACI 301.
3. CONCRETE SHALL NOT CONTAIN TYPE III, HIGH EARLY STRENGTH CEMENT, CALCIUM CHLORIDE, CORROSIVE ACCELERATORS, OR ANTIFREEZE.
4. CONCRETE SHALL BE PLACED BEFORE INITIAL SET OCCURS, AND IN NO EVENT AFTER IT HAS CONTAINED ITS WATER CONTENT FOR MORE THAN 1½ HOURS.
5. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE PLACED UPON CLEAN, DAMP, SMOOTH SURFACES THAT ARE FREE FROM RUNNING WATER. SUBGRADE AND BASE SHALL BE PROPERLY CONSOLIDATED AND RUT-FREE.
6. CONCRETE SHALL NOT BE PLACED UPON SOFT MUD OR DRY POROUS EARTH. THE CONCRETE SHALL BE CONSOLIDATED AND WORKED, IN AN APPROVED MANNER, INTO ALL CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT AND EMBEDDED FIXTURES IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE COARSE AGGREGATE AS REQUIRED IN ACI 301.
G. DURING CONCRETE PLACEMENT, CAREFULLY PROTECT ALL MASONRY AND METAL BUILDING WALLS BY COVERING WITH WATERPROOF PAPER.
H. WATER MAY BE ADDED IN ACCORDANCE WITH ASTM C94. WATER SHALL ONLY BE ADDED AT THE JOB SITE UNDER THE DIRECT SUPERVISION OF A REPRESENTATIVE FROM THE TESTING AGENCY. DO NOT ADD MORE WATER THAN IS INDICATED AS ALLOWABLE ON THE BATCH TICKET. WATER ADDED AT THE JOB SITE SHALL BE DOCUMENTED ON THE BATCH TICKET

**3.03 FORMED SURFACE FINISHES:**

A. ROUGH-FORMED FINISH: AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL WITH TIE HOLES AND DEFECTIVE AREAS REPAIRED AND PATCHED, AND FINS AND OTHER IRREGULARITIES REMOVED. SLABS TO BE RUBBED DOWN OR CHIPPED OFF.
1. APPLY TO CONCRETE SURFACES NOT EXPOSED TO PUBLIC VIEW.
B. SMOOTH-FORMED FINISH: AS-CAST CONCRETE TEXTURE IMPARTED BY FORM-FACING MATERIAL, ARRANGED IN AN ORDERLY AND SYMMETRICAL MANNER WITH A MINIMUM OF SEAMS. REPAIR AND PATCH TIE HOLES AND DEFECTIVE AREAS. COMPLETELY REMOVE FINS AND OTHER PROJECTIONS. ALL EXPOSED CONCRETE WALLS ARE TO BE GROUTED AND HAND RUBBED.
1. APPLY TO CONCRETE SURFACES EXPOSED TO PUBLIC VIEW OR TO BE COVERED WITH A COATING OR COVERING MATERIAL APPLIED DIRECTLY TO CONCRETE, SUCH AS WATERPROOFING, DAMP-PROOFING, VENEER PLASTER, OR PAINTING.
2. DO NOT APPLY RUBBED FINISH TO SMOOTH-FORMED FINISH.
3. APPLY SMOOTH-RUBBED FINISH, DEFINED IN ACI 301, TO SMOOTH-FORMED FINISHED CONCRETE.
C. RELATED UNFORMED SURFACES: AT TOPS OF WALLS, HORIZONTAL OFFSETS, AND SIMILAR UNFORMED SURFACES ADJACENT TO FORMED SURFACES, STRIKE OFF SMOOTH AND FINISH WITH A TEXTURE MATCHING ADJACENT FORMED SURFACES. CONTINUE FINAL SURFACE TREATMENT OF FORMED SURFACES UNIFORMLY ACROSS ADJACENT UNFORMED SURFACES, UNLESS OTHERWISE INDICATED.

**3.04 CONCRETE FINISHES AND TOLERANCES**

A. GENERAL: UNLESS OTHERWISE NOTED BY OWNER, INTERIOR SLAB ON GROUND SHALL BE CAST IN ONE CONTINUOUS PLACEMENT. CONCRETE SHALL BE PLACED, SCREEDED, RE-STRAIGHTENED, AND FINISHED TO MEET THE SPECIFIED $F_F$ AND $F_L$ TOLERANCE REQUIREMENTS. INTERIOR SLAB ON GROUND MACHINE TROWEL FINISH SHALL BE ACHIEVED WITHIN A 2" TOLERANCE OF ALL WALLS, COLUMNS, AND PARTITIONS. DO NOT WET CONCRETE SURFACES WHILE FINISHING CONCRETE.
1. LASER SCREEDS (REQUIRED), VIBRATORY SCREEDS, HIGHWAY STRAIGHTEDGES AND WOOD OR RESINOUS BULL FLOATS SHALL BE USED TO INITIATE SCREEDING AND FLOATING PROCESS TO FORM A UNIFORM AND OPEN-TEXTURED SURFACE PLANE BEFOR

# SECTION 05 52 00 - PIPE AND TUBE RAILINGS

**PART 1 GENERAL**

**1.01 SUMMARY**
A. THIS SECTION INCLUDES BOTH STANDARD AND CUSTOM HANDRAILS AS SHOWN IN THE CONTRACT DRAWINGS.
B. THESE INCLUDE ALUMINUM AND STAINLESS STEEL PIPE RAILING.

**1.02 REFERENCES**
A. ASTM B209- STANDARD SPECIFICATION FOR ALUMINUM SHEET AND PLATE
B. ASTM B210- STANDARD SPECIFICATION FOR ALUMINUM DRAWN SEAMLESS TUBE
C. ASTM B221- STANDARD SPECIFICATION FOR ALUMINUM EXTRUDED BARS, RODS, TUBES AND CHANNEL D) ASTM B429 - STANDARD SPECIFICATION FOR ALUMINUM STRUCTURAL PIPE AND TUBE
D. ASTM A167- STANDARD SPECIFICATION FOR STAINLESS AND HEAT RESISTING CHROMIUM NICKEL STEEL PLATE, SHEET AND STRIP
E. ASTM A269- STANDARD SPECIFICATION FOR SEAMLESS AND WELDED AUSTENITIC STAINLESS STEEL TUBING
F. ASTM A276- STANDARD SPECIFICATION FOR STAINLESS AND HEAT RESISTING BARS AND SHAPES
G. ASTM A312- STANDARD SPECIFICATION FOR SEAMLESS AND WELDED AUSTENITIC STAINLESS STEEL PIPE I) AWS D1.1 - STRUCTURAL WELDING CODE STEEL; 2008
H. AWS D1.2- STRUCTURAL WELDING CODE ALUMINUM; 2003
I. AWS D1.6- STRUCTURAL WELDING CODE STAINLESS STEEL; 2007
J. AWS B2.1-84- WELDING PROCEDURE AND PERFORMANCE CALCULATIONS
K. ASTM E894- STANDARD TEST METHODS FOR ANCHORAGE OF PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS
L. ASTM E935- STANDARD TEST METHODS FOR PERFORMANCE OF PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS
M. ASTM E985- SPECIFICATIONS FOR PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS

**1.03 PERFORMANCE REQUIREMENTS**
A. HANDRAIL SHALL BE DESIGNED TO WITHSTAND WITHOUT PERMANENT DEFLECTION OF THE FOLLOWING LOADS ON THE TOP RAIL:
1. CONCENTRATED LOAD OF 200 LB/FT APPLIED AT ANY POINT AND ANY DIRECTION.
2. UNIFORM LOAD OF 50 LB/FT APPLIED HORIZONTALLY AND CONCURRENTLY WITH UNIFORM LOAD OF 100 LB/FT APPLIED VERTICALLY DOWNWARD.
3. CONCENTRATED AND UNIFORM LOADS ABOVE NEED NOT BE ASSUMED TO ACT CONCURRENTLY.
B. HANDRAILS OTHER THAN TOP RAIL:
1. CONCENTRATED LOAD OF 200 LB/FT APPLIED AT ANY POINT AND ANY DIRECTION.
2. UNIFORM LOAD OF 50 LB/FT APPLIED IN ANY DIRECTION.
3. CONCENTRATED AND UNIFORM LOADS ABOVE NEED NOT BE ASSUMED TO ACT CONCURRENTLY
C. INFILL AREAS: CONCENTRATED HORIZONTAL LOAD 50 LB/FT APPLIED TO 1 SQ. FT. AT ANY POINT IS SYSTEM, INCLUDING INTERMEDIATE RAILS, PANELS, PICKETS, CABLES OR OTHER ELEMENTS MAKING UP INFILL AREA. LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH LOADS ON TOP RAILS IN DETERMINING STRESS ON INFILL.

**1.04 QUALITY ASSURANCE**
A. OBTAIN RAILING THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.
B. CHECK DIMENSIONS OF OTHER CONSTRUCTION BY ACCURATE FIELD MEASUREMENTS BEFORE FABRICATION TO INSURE PROPER RAIL FIT UP. INCORPORATE FINAL DIMENSIONS INTO FIELD USE SHOP DRAWINGS. COORDINATE
C. FABRICATION LEAD TIMES WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
D. SHOP ASSEMBLED MECHANICAL JOINTS SHALL FIT TO WITHIN 1/16
E. EXPANSION JOINTS SHALL FIT WITHIN 1/8" TO ALLOW FOR THERMAL EXPANSION WITHIN THE HANDRAIL.
F. RAILING POSTS SHALL BE PLUMB TO WITHIN 1/8" OVER 3'-0".
G. QUALIFY WELDERS AND PROCEDURES PER AWS STANDARD QUALIFICATION PROCEDURES.

**1.05 DELIVERY, STORAGE AND HANDLING**
A. MATERIALS TO BE DELIVERED TO JOB SITE CRATED AND PACKAGED TO PREVENT DAMAGE.
B. STORE MATERIAL ON SITE IN MANUFACTURERS UNOPENED PACKAGING UNTIL READY TO INSTALL
C. STORE MATERIAL IN A CLEAN DRY LOCATION AVOIDING EXPOSURE TO UNCURED CONCRETE, MASONRY OR ACIDIC CLEANING AGENTS.

**PART 2 PRODUCTS**

**2.01 MATERIALS**
A. PROVIDE METAL FREE FROM PITTING, SEAM MARKS, ROLLER MARKS, GRINDING MARKS AND STAINS AT AREAS EXPOSED TO VIEW ON COMPLETED RAIL UNITS.
1. ALUMINUM:
A. EXTRUDED PIPE: ASTM B 221 ALLOY 6063-T6.
B. EXTRUDED TUBE: ASTM B 221 ALLOY 6063-T6.
C. EXTRUDED BAR, PLATE AND SHEET: ASTM B 221 ALLOY 6061-T6/T52.
D. CASTINGS: ASTM B 26 ALMAG 35.

2. STAINLESS STEEL:
A. PIPE AND TUBING: ASTM A 269 TYPE 304 OR TYPE 316.
B. BAR: ASTM A 276 TYPE 304 OR TYPE 316.
C. FITTINGS: ASTM A 276/ A 479 TYPE 304 OR TYPE 316.

**2.02 FINISHES**
A. FIELD PAINT AS INDICATED ON DRAWINGS.

**2.03 FABRICATION**
A. FABRICATE HANDRAILS AND GUARDRAILS IN ACCORDANCE TO APPROVED SHOP DRAWING AND FIELD DIMENSIONS USING MITERED AND WELDED JOINTS WITH BENDS WHERE INDICATED ON SHOP DRAWINGS.
B. SHOP FABRICATE IN GREATEST POSSIBLE LENGTHS TO ELIMINATE FIELD SPLICING, BUT NOT TO EXCEED 20'-0" IN LENGTH.
C. FORM BENDS TO UNIFORM RADIUS, FREE OF DISTORTION, TWISTS, CRACKS AND GRAIN SEPARATION.
D. TOP RAILS SHALL BE CONTINUOUS OVER POSTS FOR STRENGTH WITH SPLICES FOR EXPANSION LOCATED WITHIN 6 TO 12 INCHES OF POST.
E. SPLICES AND EXPANSION JOINTS SHALL UTILIZE INTERNAL SPLICE CONNECTORS WITH SET SCREWS TO ALLOW FOR RAIL EXPANSION OVER AMBIENT TEMPERATURE CHANGE.
F. WELD ALL SHOP ASSEMBLED CONNECTIONS CONTINUOUS WITHOUT UNDERCUT AND OR DISTORTION OF RAIL MATERIALS.
G. GRIND AND OR DRESS EXPOSED WELDS SMOOTH AND FLUSH TO CORNER OR FILLET WITHOUT WEAKENING RAIL CONNECTION.
H. REMOVE ALL BURRS AND SHARP EDGES FROM EXPOSED ENDS OF FINAL RAIL ASSEMBLIES.
I. LIGHTLY SAND AND BLEND WITH FINE GRIT PAPER ALL LIGHT SCRATCHES PRIOR TO RAIL FINISHING.
J. PROVIDE DRAINAGE AND WEEP HOLES WITHIN RAIL ASSEMBLIES TO PREVENT ENTRAPMENT OF WATER WITHIN RAIL ASSEMBLIES. NOTE THAT CAUTION SHOULD BE USED WHEN PRESSURE WASHING RAILS ASSEMBLIES TO PREVENT WATER ENTRY TO NON- VENTED AREAS UNDER PRESSURE.
K. PROVIDE POST INSERTS WHERE REQUIRED DUE TO LOADING WITHIN LONG POST SPANS.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
A. VERIFY THAT FIELD CONDITIONS ARE ACCEPTABLE AND READY TO RECEIVE WORK.

**3.02 INSTALLATION**
A. INSTALL IN ACCORDANCE WITH SHOP DRAWINGS UTILIZING ESTABLISHED WORKING POINTS.
B. SET RAILINGS WITHIN SLEEVES, USE ANCHOR BOLTS OR CORE DRILL FOR MOUNTING HOLES. MAINTAIN SLAB EDGE DISTANCES AND RAIL LOCATIONS PER SHOP DRAWINGS.
C. ASSEMBLE RAILS FITTING SPLICES TOGETHER TO FORM TIGHT HAIRLINE JOINTS WHILE ALLOWING FOR THERMAL EXPANSION AS REQUIRED.
D. MAKE ALL ADJUSTMENTS TO ALIGNMENT FOR SATISFACTORY RAIL APPEARANCE AND TO PLUMB POSTS PRIOR TO FINAL TIGHTENING OF FASTENERS OR POURING OF HOLES.
E. SET RAILINGS WITHIN SLEEVES OR CORED HOLES USING A HIGH QUALITY ANCHORING GROUT SUCH AS QUICKRETE. SLOPE GROUT 1/8 " UP ON POSTS FOR DRAINAGE.
F. LOCATE WALL BRACKETS PER SHOP DRAWINGS AND SET ANCHORS WITHIN CONCRETE OR INTO BLOCKING WITHIN SHEETROCK WALLS. USE WALL RAILS TO INSURE PROPER LOCATION AND PLUMB AT ENDS.

END OF SECTION

# 06 83 16 - FIBERGLASS REINFORCED PANELING

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
A. FIBERGLASS REINFORCED PLASTIC PANELS.
B. TRIM.

**1.02 REFERENCE STANDARDS**
A. ASTM D3273 - STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER; 2016.
B. ASTM D5319 - STANDARD SPECIFICATION FOR GLASS-FIBER REINFORCED POLYESTER WALL AND CEILING PANELS; 2017.
C. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.

**1.03 DELIVERY, STORAGE, AND HANDLING**
A. STORE PANELS FLAT, INDOORS, ON A CLEAN, DRY SURFACE. REMOVE PACKAGING AND ALLOW PANELS TO ACCLIMATE TO ROOM TEMPERATURE FOR 48 HOURS PRIOR TO INSTALLATION.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**
A. FIBERGLASS REINFORCED PLASTIC PANELS:
1. GLASTEEL, GLASLINER

**2.02 PANEL SYSTEMS**
A. WALL PANELS:
1. PANEL SIZE: AS INDICATED ON DRAWINGS
2. PANEL THICKNESS: .040 INCH
3. SURFACE DESIGN: EMBOSSED.
4. COLOR: XA WHITE
5. ATTACHMENT METHOD: ADHESIVE ONLY, WITH TRIM AND SEALANT IN JOINTS.

**2.03 MATERIALS**
A. PANELS: FIBERGLASS REINFORCED PLASTIC (FRP), COMPLYING WITH ASTM D5319.
1. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD INDEX OF 25 AND SMOKE DEVELOPED INDEX OF 450; WHEN SYSTEM TESTED IN ACCORDANCE WITH ASTM E84.
2. MOLD RESISTANCE: SCORE OF 10, WHEN TESTED IN ACCORDANCE WITH ASTM D3273.
B. TRIM: VINYL; COLOR COORDINATING WITH PANEL.
C. ADHESIVE: TYPE RECOMMENDED BY PANEL MANUFACTURER.
D. SEALANT: TYPE RECOMMENDED BY PANEL MANUFACTURER; WHITE.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
A. VERIFY EXISTING CONDITIONS AND SUBSTRATE FLATNESS BEFORE STARTING WORK.
B. VERIFY THAT SUBSTRATE CONDITIONS ARE READY TO RECEIVE THE WORK OF THIS SECTION.

**3.02 INSTALLATION - WALLS**
A. INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. CUT AND DRILL PANELS WITH CARBIDE TIPPED SAW BLADES, DRILL BITS, OR SNIPS.
C. APPLY ADHESIVE TO THE BACK SIDE OF THE PANEL USING TROWEL AS RECOMMENDED BY ADHESIVE MANUFACTURER.
D. APPLY PANELS TO WALL WITH SEAMS PLUMB AND PATTERN ALIGNED WITH ADJOINING PANELS.
E. INSTALL PANELS WITH MANUFACTURER'S RECOMMENDED GAP FOR PANEL FIELD AND CORNER JOINTS.
F. PLACE TRIM ON PANEL BEFORE FASTENING EDGES, AS REQUIRED.
G. FILL CHANNELS IN TRIM WITH SEALANT BEFORE ATTACHING TO PANEL.
H. INSTALL TRIM WITH ADHESIVE AND SCREWS OR NAILS, AS REQUIRED.
I. SEAL GAPS AT FLOOR, CEILING, AND BETWEEN PANELS WITH APPLICABLE SEALANT TO PREVENT MOISTURE INTRUSION.
J. REMOVE EXCESS SEALANT AFTER PANELING IS INSTALLED AND PRIOR TO CURING.

**END OF SECTION**

# SECTION 06 10 00 - ROUGH CARPENTRY

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
A. ROUGH OPENING FRAMING FOR DOORS, WINDOWS, AND ROOF OPENINGS.
B. SHEATHING.
C. PRESERVATIVE TREATED WOOD MATERIALS.
D. FIRE RETARDANT TREATED WOOD MATERIALS.
E. MISCELLANEOUS FRAMING AND SHEATHING.
F. COMMUNICATIONS AND ELECTRICAL ROOM MOUNTING BOARDS.
G. CONCEALED WOOD BLOCKING, NAILERS, AND SUPPORTS.
H. MISCELLANEOUS WOOD NAILERS, FURRING, AND GROUNDS.

**1.02 RELATED REQUIREMENTS**
A. SECTION 07 25 00 - WEATHER BARRIERS: AIR BARRIER OVER SHEATHING. WATER-RESISTIVE BARRIER OVER SHEATHING.
B. SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES: GYPSUM-BASED SHEATHING.

**1.03 REFERENCE STANDARDS**
A. ASTM A153/A153M - STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE; 2016A.
B. ASTM A653/A653M - STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS; 2017.
C. ASTM C557 - STANDARD SPECIFICATION FOR ADHESIVES FOR FASTENING GYPSUM WALLBOARD TO WOOD FRAMING; 2003 (REAPPROVED 2017).
D. ASTM C1289 - STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD; 2018A.
E. ASTM C1396/C1396M - STANDARD SPECIFICATION FOR GYPSUM BOARD; 2017.
F. ASTM D2898 - STANDARD TEST METHODS FOR ACCELERATED WEATHERING OF FIRE-RETARDANT-TREATED WOOD FOR FIRE TESTING; 2010 (REAPPROVED 2017).
G. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.
H. ASTM E96/E96M - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS; 2016.
I. AWPA U1 - USE CATEGORY SYSTEM: USER SPECIFICATION FOR TREATED WOOD; 2017.
J. PS 1 - STRUCTURAL PLYWOOD; 2009.
K. PS 2 - PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS; 2010.
L. PS 20 - AMERICAN SOFTWOOD LUMBER STANDARD; 2015.

**1.04 DELIVERY, STORAGE, AND HANDLING**
A. GENERAL: COVER WOOD PRODUCTS TO PROTECT AGAINST MOISTURE. SUPPORT STACKED PRODUCTS TO PREVENT DEFORMATION AND TO ALLOW AIR CIRCULATION.
B. FIRE RETARDANT TREATED WOOD: PREVENT EXPOSURE TO PRECIPITATION DURING SHIPPING, STORAGE, OR INSTALLATION.

**PART 2 PRODUCTS**

**2.01 GENERAL REQUIREMENTS**
A. DIMENSION LUMBER: COMPLY WITH PS 20 AND REQUIREMENTS OF SPECIFIED GRADING AGENCIES.
1. SPECIES: SOUTHERN PINE, UNLESS OTHERWISE INDICATED.
2. IF NO SPECIES IS SPECIFIED, PROVIDE ANY SPECIES GRADED BY THE AGENCY SPECIFIED; IF NO GRADING AGENCY IS SPECIFIED, PROVIDE LUMBER GRADED BY ANY GRADING AGENCY MEETING THE SPECIFIED REQUIREMENTS.
3. GRADING AGENCY: ANY GRADING AGENCY WHOSE RULES ARE APPROVED BY THE BOARD OF REVIEW, AMERICAN LUMBER STANDARD COMMITTEE (WWW.ALSC.ORG) AND WHO PROVIDES GRADING SERVICE FOR THE SPECIES AND GRADE SPECIFIED; PROVIDE LUMBER STAMPED WITH GRADE MARK UNLESS OTHERWISE INDICATED.
4. LUMBER OF OTHER SPECIES OR GRADES IS ACCEPTABLE PROVIDED STRUCTURAL AND APPEARANCE CHARACTERISTICS ARE EQUIVALENT TO OR BETTER THAN PRODUCTS SPECIFIED.
B. LUMBER SALVAGED FROM DECONSTRUCTION OR DEMOLITION OF EXISTING BUILDINGS OR STRUCTURES IS PERMITTED IN LIEU OF SUSTAINABLY HARVESTED LUMBER PROVIDED IT IS CLEAN, DENAILED, AND FREE OF PAINT AND FINISH MATERIALS, AND OTHER CONTAMINATION; IDENTIFY SOURCE.
1. WHERE SALVAGED LUMBER IS USED FOR STRUCTURAL APPLICATIONS, PROVIDE LUMBER RE-GRADED BY AN INSPECTION SERVICE ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE, INC; WWW.ALSC.ORG.
C. LUMBER FABRICATED FROM RECOVERED TIMBER (ABANDONED IN TRANSIT) IS PERMITTED IN LIEU OF SUSTAINABLY HARVESTED LUMBER, UNLESS OTHERWISE NOTED, PROVIDED IT MEETS THE SPECIFIED REQUIREMENTS FOR NEW LUMBER AND IS FREE OF CONTAMINATION; IDENTIFY SOURCE.

**2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**
A. GRADING AGENCY: SOUTHERN PINE INSPECTION BUREAU, INC; SPIB (GR).
B. SIZES: NOMINAL SIZES AS INDICATED ON DRAWINGS, S4S.
C. MOISTURE CONTENT: S-DRY OR MC19.
D. STUD FRAMING (2 BY 2 THROUGH 2 BY 6 ):
1. SPECIES: SOUTHERN PINE.
2. GRADE: NO. 2.
E. JOIST, RAFTER, AND SMALL BEAM FRAMING (2 BY 6 THROUGH 4 BY 16 ):
1. MACHINE STRESS-RATED (MSR) AS FOLLOWS:
A. FB-SINGLE (MINIMUM EXTREME FIBER STRESS IN BENDING): 1350 PSI.
B. E (MINIMUM MODULUS OF ELASTICITY): 1,300,000 PSI.
2. SPECIES AND GRADES: AS INDICATED ON DRAWINGS FOR VARIOUS LOCATIONS.
F. MISCELLANEOUS FRAMING, BLOCKING, NAILERS, GROUNDS, AND FURRING:
1. LUMBER: S4S, NO. 2 OR STANDARD GRADE.
2. BOARDS: STANDARD OR NO. 3.

**2.03 CONSTRUCTION PANELS**
A. WALL SHEATHING: ANY PS 2 TYPE.
1. BOND CLASSIFICATION: EXTERIOR.
2. GRADE: STRUCTURAL I SHEATHING.
3. SPAN RATING: 24.
4. PERFORMANCE CATEGORY: 5/16 PERF CAT.
5. EDGE PROFILE: SQUARE EDGE.
B. WALL SHEATHING: PLYWOOD, PS 1; GRADE C-D, EXPOSURE I.
C. WALL SHEATHING: SEE SECTION 09 21 16.
D. WALL SHEATHING: GYPSUM, COMPLYING WITH REQUIREMENTS OF ASTM C1396/C1396M FOR GYPSUM SHEATHING, V-SHAPED LONG EDGES, 5/8 INCH TYPE X FIRE RESISTANT.
E. COMMUNICATIONS AND ELECTRICAL ROOM MOUNTING BOARDS: PS 1 A-D PLYWOOD, OR MEDIUM DENSITY FIBERBOARD; 3/4 INCH THICK; FLAME SPREAD INDEX OF 25 OR LESS, SMOKE DEVELOPED INDEX OF 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.

**2.04 ACCESSORIES**
A. FASTENERS AND ANCHORS:
1. METAL AND FINISH: HOT-DIPPED GALVANIZED STEEL COMPLYING WITH ASTM A153/A153M FOR HIGH HUMIDITY AND PRESERVATIVE-TREATED WOOD LOCATIONS, UNFINISHED STEEL ELSEWHERE.
2. DRYWALL SCREWS: BUGLE HEAD, HARDENED STEEL, POWER DRIVEN TYPE, LENGTH THREE TIMES THICKNESS OF SHEATHING.
3. ANCHORS: TOGGLE BOLT TYPE FOR ANCHORAGE TO HOLLOW MASONRY.
B. CONSTRUCTION ADHESIVES: ADHESIVES COMPLYING WITH ASTM C557 OR ASTM D3498.
1. MANUFACTURERS:
A. FRANKLIN INTERNATIONAL, INC; TITEBOND FAST SET POLYURETHANE CONSTRUCTION ADHESIVE: www.titebond.com/#sle.
C. GENERAL PURPOSE CONSTRUCTION ADHESIVES:
1. MANUFACTURERS:
A. ADFAST CORPORATION; ADBOND EX 5690: www.adfastcorp.com
D. WATER-RESISTIVE BARRIER: AS SPECIFIED IN SECTION 07 25 00.
E. BUILDING PAPER: WATER RESISTANT KRAFT PAPER.

**2.05 FACTORY WOOD TREATMENT**
A. TREATED LUMBER AND PLYWOOD: COMPLY WITH REQUIREMENTS OF AWPA U1 - USE CATEGORY SYSTEM FOR WOOD TREATMENTS DETERMINED BY USE CATEGORIES, EXPECTED SERVICE CONDITIONS, AND SPECIFIC APPLICATIONS.
1. FIRE-RETARDANT TREATED WOOD: MARK EACH PIECE OF WOOD WITH PRODUCER'S STAMP INDICATING COMPLIANCE WITH SPECIFIED REQUIREMENTS.
2. PRESERVATIVE-TREATED WOOD: PROVIDE LUMBER AND PLYWOOD MARKED OR STAMPED BY AN ALSC-ACCREDITED TESTING AGENCY, CERTIFYING LEVEL AND TYPE OF TREATMENT IN ACCORDANCE WITH AWPA STANDARDS.
B. FIRE RETARDANT TREATMENT:
1. MANUFACTURERS.
A. LONZA GROUP; www.wolmanizedwood.com
B. HOOVER TREATED WOOD PRODUCTS, INC: www.frtw.com
C. KOPPERS, INC; www.koppersperformancechemicals.com
2. EXTERIOR TYPE: AWPA U1, CATEGORY UCFB, COMMODITY SPECIFICATION H, CHEMICALLY TREATED AND PRESSURE IMPREGNATED; CAPABLE OF PROVIDING A MAXIMUM FLAME SPREAD INDEX OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84, WITH NO EVIDENCE OF SIGNIFICANT COMBUSTION WHEN TEST IS EXTENDED FOR AN ADDITIONAL 20 MINUTES BOTH BEFORE AND AFTER ACCELERATED WEATHERING TEST PERFORMED IN ACCORDANCE WITH ASTM D2898.
A. KILN DRY WOOD AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT FOR LUMBER AND 15 PERCENT FOR PLYWOOD.
B. TREAT ALL EXTERIOR ROUGH CARPENTRY ITEMS.
C. DO NOT USE TREATED WOOD IN DIRECT CONTACT WITH THE GROUND.
3. INTERIOR TYPE A: AWPA U1, USE CATEGORY UCFA, COMMODITY SPECIFICATION H, LOW TEMPERATURE (LOW HYGROSCOPIC) TYPE, CHEMICALLY TREATED AND PRESSURE IMPREGNATED; CAPABLE OF PROVIDING A MAXIMUM FLAME SPREAD INDEX OF 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84, WITH NO EVIDENCE OF SIGNIFICANT COMBUSTION WHEN TEST IS EXTENDED FOR AN ADDITIONAL 20 MINUTES.
A. KILN DRY WOOD AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT FOR LUMBER AND 15 PERCENT FOR PLYWOOD.
B. TREAT ROUGH CARPENTRY ITEMS AS INDICATED .
C. DO NOT USE TREATED WOOD IN APPLICATIONS EXPOSED TO WEATHER OR WHERE THE WOOD MAY BECOME WET.

**PART 3 EXECUTION**

**3.01 INSTALLATION - GENERAL**
A. SELECT MATERIAL SIZES TO MINIMIZE WASTE.
B. REUSE SCRAP TO THE GREATEST EXTENT POSSIBLE; CLEARLY SEPARATE SCRAP FOR USE ON SITE AS ACCESSORY COMPONENTS, INCLUDING: SHIMS, BRACING, AND BLOCKING.
C. WHERE TREATED WOOD IS USED ON INTERIOR, PROVIDE TEMPORARY VENTILATION DURING AND IMMEDIATELY AFTER INSTALLATION SUFFICIENT TO REMOVE INDOOR AIR CONTAMINANTS.

**3.02 FRAMING INSTALLATION**
A. SET STRUCTURAL MEMBERS LEVEL, PLUMB, AND TRUE TO LINE. DISCARD PIECES WITH DEFECTS THAT WOULD LOWER REQUIRED STRENGTH OR RESULT IN UNACCEPTABLE APPEARANCE OF EXPOSED MEMBERS.
B. MAKE PROVISIONS FOR TEMPORARY CONSTRUCTION LOADS, AND PROVIDE TEMPORARY BRACING SUFFICIENT TO MAINTAIN STRUCTURE IN TRUE ALIGNMENT AND SAFE CONDITION UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
C. INSTALL STRUCTURAL MEMBERS FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE SPECIFICALLY DETAILED.
D. COMPLY WITH MEMBER SIZES, SPACING, AND CONFIGURATIONS INDICATED, AND FASTENER SIZE AND SPACING INDICATED, BUT NOT LESS THAN REQUIRED BY APPLICABLE CODES, AWC (WFCM) WOOD FRAME CONSTRUCTION MANUAL, AND AS INDICATED ON DRAWINGS.
E. INSTALL HORIZONTAL SPANNING MEMBERS WITH CROWN EDGE UP AND NOT LESS THAN 1-1/2 INCHES OF BEARING AT EACH END.
F. FRAME WALL OPENINGS WITH TWO OR MORE STUDS AT EACH JAMB; SUPPORT HEADERS ON CRIPPLE STUDS.

**3.03 BLOCKING, NAILERS, AND SUPPORTS**
A. PROVIDE FRAMING AND BLOCKING MEMBERS AS INDICATED OR AS REQUIRED TO SUPPORT FINISHES, FIXTURES, SPECIALTY ITEMS, AND TRIM.
B. IN FRAMED ASSEMBLIES THAT HAVE CONCEALED SPACES, PROVIDE SOLID WOOD FIRE-BLOCKING AS REQUIRED BY APPLICABLE LOCAL CODE, TO CLOSE CONCEALED DRAFT OPENINGS BETWEEN FLOORS AND BETWEEN TOP STORY AND ROOF/ATTIC SPACE; OTHER MATERIAL ACCEPTABLE TO CODE AUTHORITIES MAY BE USED IN LIEU OF SOLID WOOD BLOCKING.
C. IN METAL STUD WALLS, PROVIDE CONTINUOUS BLOCKING AROUND DOOR AND WINDOW OPENINGS FOR ANCHORAGE OF FRAMES, SECURELY ATTACHED TO STUD FRAMING.
D. IN WALLS, PROVIDE BLOCKING ATTACHED TO STUDS AS BACKING AND SUPPORT FOR WALL-MOUNTED ITEMS, UNLESS ITEM CAN BE SECURELY FASTENED TO TWO OR MORE STUDS OR OTHER METHOD OF SUPPORT IS EXPLICITLY INDICATED.
E. WHERE CEILING-MOUNTING IS INDICATED, PROVIDE BLOCKING AND SUPPLEMENTARY SUPPORTS ABOVE CEILING, UNLESS OTHER METHOD OF SUPPORT IS EXPLICITLY INDICATED.
F. PROVIDE THE FOLLOWING SPECIFIC NON-STRUCTURAL FRAMING AND BLOCKING:
1. CABINETS AND SHELF SUPPORTS.
2. WALL BRACKETS.
3. HANDRAILS.
4. GRAB BARS.
5. TOWEL AND BATH ACCESSORIES.
6. WALL-MOUNTED DOOR STOPS.
7. WALL PANELING AND TRIM.
8. JOINTS OF RIGID WALL COVERINGS THAT OCCUR BETWEEN STUDS.

**3.04 INSTALLATION OF CONSTRUCTION PANELS**
A. WALL SHEATHING: SECURE WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED, USING NAILS, SCREWS, OR STAPLES.
1. USE PLYWOOD OR OTHER ACCEPTABLE STRUCTURAL PANELS AT BUILDING CORNERS, FOR NOT LESS THAN 96 INCHES, MEASURED HORIZONTALLY.
2. PROVIDE INLET DIAGONAL BRACING AT CORNERS.
3. PLACE WATER-RESISTIVE BARRIER HORIZONTALLY OVER WALL SHEATHING, WEATHER LAPPING EDGES AND ENDS.
B. COMMUNICATIONS AND ELECTRICAL ROOM MOUNTING BOARDS: SECURE WITH SCREWS TO STUDS WITH EDGES OVER FIRM BEARING; SPACE FASTENERS AT MAXIMUM 24 INCHES ON CENTER ON ALL EDGES AND INTO STUDS IN FIELD OF BOARD.
1. AT FIRE-RATED WALLS, INSTALL BOARD OVER WALL BOARD INDICATED AS PART OF THE FIRE-RATED ASSEMBLY.
2. WHERE BOARDS ARE INDICATED AS FULL FLOOR-TO-CEILING HEIGHT, INSTALL WITH LONG EDGE OF BOARD PARALLEL TO STUDS.
3. INSTALL ADJACENT BOARDS WITHOUT GAPS.
4. SIZE: 48 BY 96 INCHES, INSTALLED HORIZONTALLY AT CEILING HEIGHT.

**3.05 SITE APPLIED WOOD TREATMENT**
A. APPLY PRESERVATIVE TREATMENT COMPATIBLE WITH FACTORY APPLIED TREATMENT AT SITE-SAWN CUTS, COMPLYING WITH MANUFACTURER'S INSTRUCTIONS.
B. ALLOW PRESERVATIVE TO DRY PRIOR TO ERECTING MEMBERS.

**3.06 TOLERANCES**
A. FRAMING MEMBERS: 1/4 INCH FROM TRUE POSITION, MAXIMUM.
B. SURFACE FLATNESS OF FLOOR: 1/8 INCH IN 10 FEET MAXIMUM, AND 1/4 INCH IN 30 FEET MAXIMUM.
C. VARIATION FROM PLANE (OTHER THAN FLOORS): 1/4 INCH IN 10 FEET MAXIMUM, AND 1/4 INCH IN 30 FEET MAXIMUM.

**3.07 CLEANING**
A. WASTE DISPOSAL: COMPLY WITH THE REQUIREMENTS OF SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.
1. COMPLY WITH APPLICABLE REGULATIONS.
2. DO NOT BURN SCRAP ON PROJECT SITE.
3. DO NOT BURN SCRAPS THAT HAVE BEEN PRESSURE TREATED.
4. DO NOT SEND MATERIALS TREATED WITH PENTACHLOROPHENOL, CCA, OR ACA TO CO-GENERATION FACILITIES OR "WASTE-TO-ENERGY" FACILITIES.
B. DO NOT LEAVE ANY WOOD, SHAVINGS, SAWDUST, ETC. ON THE GROUND OR BURIED IN FILL.
C. PREVENT SAWDUST AND WOOD SHAVINGS FROM ENTERING THE STORM DRAINAGE SYSTEM.

**END OF SECTION**

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:**
Contact: Kyle Wojciechowski
214-766-3410

**Architect:**
Contact: Dan Marta
469-455-1532


TRACTOR SUPPLY Co.
TSC

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037


COPYRIGHT PARKWAY C&A, LP ©2025


SPECIFICATIONS - SECTIONS 05 - 06

A0.31

# SECTION 07 21 00 - THERMAL INSULATION

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
A. BOARD INSULATION AT CAVITY WALL CONSTRUCTION, PERIMETER FOUNDATION WALL, OVER ROOF DECK, OVER ROOF SHEATHING, AND EXTERIOR WALL BEHIND INTERIOR WALL FINISH.
B. BATT INSULATION AND VAPOR RETARDER IN EXTERIOR WALL, CEILING, AND ROOF CONSTRUCTION.
C. BATT INSULATION FOR FILLING PERIMETER WINDOW AND DOOR SHIM SPACES AND CREVICES IN EXTERIOR WALL AND ROOF.

**1.02 RELATED REQUIREMENTS**
A. SECTION 06 10 00 - ROUGH CARPENTRY: SUPPORTING CONSTRUCTION FOR BATT INSULATION.
B. SECTION 07 25 00 - WEATHER BARRIERS: SEPARATE AIR BARRIER AND VAPOR RETARDER MATERIALS.
C. SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES: ACOUSTIC INSULATION INSIDE WALLS AND PARTITIONS.

**1.03 REFERENCE STANDARDS**
A. ASTM C578 - STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE THERMAL INSULATION; 2018.
B. ASTM C665 - STANDARD SPECIFICATION FOR MINERAL-FIBER BLANKET THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION AND MANUFACTURED HOUSING; 2017.
C. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.
D. ASTM E136 - STANDARD TEST METHOD FOR BEHAVIOR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750 DEGREES C; 2019.
E. NFPA 285 - STANDARD FIRE TEST METHOD FOR EVALUATION OF FIRE PROPAGATION CHARACTERISTICS OF EXTERIOR NON-LOAD-BEARING WALL ASSEMBLIES CONTAINING COMBUSTIBLE COMPONENTS; 2019.

**1.04 FIELD CONDITIONS**
A. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL TO SUCCESSFUL INSTALLATION.

**PART 2 PRODUCTS**

**2.01 APPLICATIONS**
A. INSULATION INSIDE MASONRY CAVITY WALLS: EXTRUDED POLYSTYRENE (XPS) CARBON BLACK BOARD.
B. INSULATION OVER METAL STUD FRAMED WALLS, CONTINUOUS: POLYISO LAMINATED SHEATHING BOARD.
C. INSULATION IN WOOD AND METAL FRAMED WALLS: BATT INSULATION WITH SEPARATE VAPOR RETARDER.
D. INSULATION OVER ROOF DECK: EXTRUDED POLYSTYRENE (XPS) BOARD.

**2.02 FOAM BOARD INSULATION MATERIALS**
A. TERMITE-RESISTANT EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLIES WITH ASTM C578.
1. FLAME SPREAD INDEX (FSI): CLASS A - 0 TO 25, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
2. SMOKE DEVELOPED INDEX (SDI): 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
B. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION: COMPLIES WITH ASTM C578 WITH EITHER NATURAL SKIN OR CUT CELL SURFACES.
1. TYPE AND COMPRESSIVE RESISTANCE: TYPE IV, 25 PSI (173 KPA), MINIMUM.
2. FLAME SPREAD INDEX (FSI): CLASS A - 0 TO 25, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
3. SMOKE DEVELOPED INDEX (SDI): 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
4. TYPE AND THERMAL RESISTANCE, R-VALUE: TYPE IV, 5.0 (0.88) PER 1 INCH THICKNESS AT 75 DEGREES F MEAN TEMPERATURE.
5. COMPLIES WITH FIRE RESISTANCE REQUIREMENTS INDICATED ON DRAWINGS AS PART OF AN EXTERIOR NON-LOAD-BEARING EXTERIOR WALL ASSEMBLY WHEN TESTED IN ACCORDANCE WITH NFPA 285.
6. MANUFACTURERS:
A. KINGSPAN INSULATION LLC; GREENGUARD XPS TYPE IV, 25 PSI
B. OWENS CORNING CORPORATION; FOAMULAR EXTRUDED POLYSTYRENE (XPS) INSULATION
C. DUPONT STYROFOAM SCOREBOARD TYPE IV.
C. EXTRUDED POLYSTYRENE (XPS) CAVITY WALL INSULATION BOARD: COMPLIES WITH ASTM C578, AND MANUFACTURED USING CARBON BLACK TECHNOLOGY.
1. TYPE AND COMPRESSIVE RESISTANCE: TYPE IV, 25 PSI (173 KPA), MINIMUM.
2. FLAME SPREAD INDEX (FSI): CLASS A - 0 TO 25, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
3. SMOKE DEVELOPED INDEX (SDI): 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
4. TYPE AND THERMAL RESISTANCE, R-VALUE: TYPE IV, 5.0 (0.88), MINIMUM, PER 1 INCH THICKNESS AT 75 DEGREES F MEAN TEMPERATURE.
5. BOARD SIZE: 15-3/4 INCH BY 96 INCH.
6. BOARD THICKNESS: PER DRAWINGS INCH.
7. BOARD EDGES: SQUARE.

**2.03 BATT INSULATION MATERIALS**
A. WHERE BATT INSULATION IS INDICATED, EITHER GLASS FIBER OR MINERAL FIBER BATT INSULATION MAY BE USED, AT CONTRACTOR'S OPTION.
B. GLASS FIBER BATT INSULATION: FLEXIBLE PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM C665; FRICTION FIT.
1. COMBUSTIBILITY: NON-COMBUSTIBLE, WHEN TESTED IN ACCORDANCE WITH ASTM E136, EXCEPT FOR FACING, IF ANY.
2. THICKNESS: 6 INCH.
3. MANUFACTURERS:
A. CERTAINTEED CORPORATION: WWW.CERTAINTEED.COM
B. OWENS CORNING CORPORATION; ECOTOUCH PINK FIBERGLAS INSULATION
C. MINERAL FIBER BATT INSULATION: FLEXIBLE OR SEMI-RIGID PREFORMED BATT OR BLANKET, COMPLYING WITH ASTM C665; FRICTION FIT; UNFACED FLAME SPREAD INDEX OF 0 (ZERO) WHEN TESTED IN ACCORDANCE WITH ASTM E84.
1. SMOKE DEVELOPED INDEX: 0 (ZERO), WHEN TESTED IN ACCORDANCE WITH ASTM E84.

**2.04 ACCESSORIES**
A. SHEET VAPOR RETARDER: SPECIFIED IN SECTION 07 25 00.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
A. VERIFY THAT SUBSTRATE, ADJACENT MATERIALS, AND INSULATION MATERIALS ARE DRY AND THAT SUBSTRATES ARE READY TO RECEIVE INSULATION.
B. VERIFY SUBSTRATE SURFACES ARE FLAT, FREE OF HONEYCOMB, FINS, IRREGULARITIES, OR MATERIALS OR SUBSTANCES THAT MAY IMPEDE ADHESIVE BOND.

**3.02 BOARD INSTALLATION AT EXTERIOR WALLS**
A. INSTALL BOARDS HORIZONTALLY ON WALLS.
B. CUT AND FIT INSULATION TIGHTLY TO PROTRUSIONS OR INTERRUPTIONS TO THE INSULATION PLANE.

**3.03 BOARD INSTALLATION AT CAVITY WALLS**
A. INSTALL BOARDS TO FIT SNUGLY BETWEEN WALL TIES.
B. INSTALL BOARDS HORIZONTALLY ON WALLS.
C. CUT AND FIT INSULATION TIGHTLY TO PROTRUSIONS OR INTERRUPTIONS TO THE INSULATION PLANE.

**3.04 BATT INSTALLATION**
A. INSTALL INSULATION AND VAPOR RETARDER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL IN EXTERIOR WALL AND ROOF SPACES WITHOUT GAPS OR VOIDS. DO NOT COMPRESS INSULATION.
C. TRIM INSULATION NEATLY TO FIT SPACES. INSULATE MISCELLANEOUS GAPS AND VOIDS.
D. FIT INSULATION TIGHTLY IN CAVITIES AND TIGHTLY TO EXTERIOR SIDE OF MECHANICAL AND ELECTRICAL SERVICES WITHIN THE PLANE OF THE INSULATION.

**3.05 PROTECTION**
A. DO NOT PERMIT INSTALLED INSULATION TO BE DAMAGED PRIOR TO ITS CONCEALMENT.

**END OF SECTION**

# SECTION 07 25 00 - WEATHER BARRIERS

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
A. WATER-RESISTIVE BARRIER: UNDER EXTERIOR WALL CLADDING, OVER SHEATHING OR OTHER SUBSTRATE; NOT AIR TIGHT OR VAPOR RETARDANT.
B. VAPOR RETARDERS: MATERIALS TO MAKE EXTERIOR WALLS, JOINTS BETWEEN EXTERIOR WALLS AND ROOF, AND JOINTS AROUND FRAMES OF OPENINGS IN EXTERIOR WALLS WATER VAPOR RESISTANT AND AIR TIGHT.
C. AIR BARRIERS: MATERIALS THAT FORM A SYSTEM TO STOP PASSAGE OF AIR THROUGH EXTERIOR WALLS, JOINTS BETWEEN EXTERIOR WALLS AND ROOF, JOINTS AROUND FRAMES OF OPENINGS IN EXTERIOR WALLS.

**1.02 RELATED REQUIREMENTS**
A. SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES: WATER-RESISTIVE BARRIER UNDER EXTERIOR CLADDING.

**1.03 DEFINITIONS**
A. WEATHER BARRIER: ASSEMBLIES THAT FORM EITHER WATER-RESISTIVE BARRIERS, AIR BARRIERS, OR VAPOR RETARDERS.
B. AIR BARRIER: AIR TIGHT BARRIER MADE OF MATERIAL THAT IS RELATIVELY AIR IMPERMEABLE BUT WATER VAPOR PERMEABLE, BOTH TO THE DEGREE SPECIFIED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES. NOTE: FOR THE PURPOSES OF THIS SPECIFICATION, VAPOR IMPERMEABLE AIR BARRIERS ARE CLASSIFIED AS VAPOR RETARDERS.
C. VAPOR RETARDER: AIR TIGHT BARRIER MADE OF MATERIAL THAT IS RELATIVELY WATER VAPOR IMPERMEABLE, TO THE DEGREE SPECIFIED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES.
1. WATER VAPOR PERMEANCE: FOR PURPOSES OF CONVERSION, 57.2 NG/(PA S SQ M) = 1 PERM.
D. WATER-RESISTIVE BARRIER: WATER-SHEDDING BARRIER MADE OF MATERIAL THAT IS MOISTURE RESISTANT, TO THE DEGREE SPECIFIED, INTENDED TO BE INSTALLED TO SHED WATER WITHOUT SEALED SEAMS.

**1.04 FIELD CONDITIONS**
A. MAINTAIN TEMPERATURE AND HUMIDITY RECOMMENDED BY THE MATERIALS MANUFACTURERS BEFORE, DURING AND AFTER INSTALLATION.

**PART 2 PRODUCTS**

**2.01 WEATHER BARRIER ASSEMBLIES**
A. WATER-RESISTIVE BARRIER: PROVIDE ON EXTERIOR WALLS UNDER EXTERIOR CLADDING.
B. EXTERIOR VAPOR RETARDER:
1. ON OUTSIDE SURFACE OF INSIDE WYTHE OF MASONRY CAVITY WALL USE VAPOR RETARDER COATING.
2. ON OUTSIDE SURFACE OF SHEATHING USE VAPOR RETARDER COATING.
3. ON UNDER SIDE OF ELEVATED FLOORS OVER ENCLOSED SOFFIT SPACE USE VAPOR RETARDER COATING.

**2.02 AIR BARRIER MATERIALS (AIR AND VAPOR BARRIER)**
A. AIR AND VAPOR BARRIER SHEET:
1. AIR PERMEANCE: 0.004 CFM/SQ FT, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E2178.
2. WATER VAPOR PERMEANCE: 0.1 PERM, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E96/E96M PROCEDURE A (DESICCANT METHOD) AT 73.4 DEGREES F.
3. WATER PENETRATION RESISTANCE AROUND NAILS: PASS, WHEN TESTED IN ACCORDANCE WITH ASTM D1970/D1970M.
4. SURFACE BURNING CHARACTERISTICS: FLAME SPREAD INDEX OF 25 OR LESS, SMOKE DEVELOPED INDEX OF 450 OR LESS (CLASS A), WHEN TESTED IN ACCORDANCE WITH ASTM E84.
5. SEAM AND PERIMETER TAPE: AS RECOMMENDED BY SHEET MANUFACTURER.

**2.03 ACCESSORIES**
A. SEALANTS, TAPES, AND ACCESSORIES FOR SEALING WEATHER BARRIER AND SEALING WEATHER BARRIER TO ADJACENT SUBSTRATES: AS SPECIFIED OR AS RECOMMENDED BY WEATHER BARRIER MANUFACTURER.
B. FLEXIBLE FLASHING: SELF-ADHESIVE SHEET FLASHING COMPLYING WITH ASTM D1970/D1970M, EXCEPT SLIP RESISTANCE REQUIREMENT IS WAIVED IF NOT INSTALLED ON A ROOF.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
A. VERIFY THAT SURFACES AND CONDITIONS ARE READY TO ACCEPT THE WORK OF THIS SECTION.

**3.02 PREPARATION**
A. REMOVE PROJECTIONS, PROTRUDING FASTENERS, AND LOOSE OR FOREIGN MATTER THAT MIGHT INTERFERE WITH PROPER INSTALLATION.
B. CLEAN AND PRIME SUBSTRATE SURFACES TO RECEIVE ADHESIVES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**3.03 INSTALLATION**
A. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. WATER-RESISTIVE BARRIERS: INSTALL CONTINUOUS BARRIER OVER SURFACES INDICATED, WITH SHEETS LAPPED TO SHED WATER BUT WITH SEAMS NOT SEALED.
C. AIR BARRIERS: INSTALL CONTINUOUS AIRTIGHT BARRIER OVER SURFACES INDICATED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES.
D. VAPOR RETARDERS: INSTALL CONTINUOUS AIRTIGHT BARRIER OVER SURFACES INDICATED, WITH SEALED SEAMS AND WITH SEALED JOINTS TO ADJACENT SURFACES.
E. MECHANICALLY FASTENED SHEETS - ON EXTERIOR:
1. INSTALL SHEETS SHINGLE-FASHION TO SHED WATER, WITH SEAMS GENERALLY HORIZONTAL.
2. OVERLAP SEAMS AS RECOMMENDED BY MANUFACTURER BUT AT LEAST 6 INCHES.
3. OVERLAP AT OUTSIDE AND INSIDE CORNERS AS RECOMMENDED BY MANUFACTURER BUT AT LEAST 12 INCHES.
4. INSTALL AIR BARRIER AND VAPOR RETARDER UNDERNEATH THE JAMB FLASHINGS.
5. INSTALL HEAD FLASHINGS UNDER WEATHER BARRIER.
6. AT OPENINGS TO BE FILLED WITH FRAMES HAVING NAILING FLANGES, WRAP EXCESS SHEET INTO OPENING; AT HEAD, SEAL SHEET OVER FLANGE AND FLASHING.
F. COATINGS:
1. PREPARE SUBSTRATE IN MANNER RECOMMENDED BY COATING MANUFACTURER; TREAT JOINTS IN SUBSTRATE AND BETWEEN DISSIMILAR MATERIALS AS RECOMMENDED BY MANUFACTURER.
2. USE FLASHING TO SEAL TO ADJACENT CONSTRUCTION AND TO BRIDGE JOINTS.
G. OPENINGS AND PENETRATIONS IN EXTERIOR WEATHER BARRIERS:
1. INSTALL FLASHING OVER SILLS, COVERING ENTIRE SILL FRAME MEMBER, EXTENDING AT LEAST 5 INCHES ONTO WEATHER BARRIER AND AT LEAST 6 INCHES UP JAMBS; MECHANICALLY FASTEN STRETCHED EDGES.
2. AT OPENINGS TO BE FILLED WITH FRAMES HAVING NAILING FLANGES, SEAL HEAD AND JAMB FLANGES USING A CONTINUOUS BEAD OF SEALANT COMPRESSED BY FLANGE AND COVER FLANGES WITH SEALING TAPE AT LEAST 4 INCHES WIDE; DO NOT SEAL SILL FLANGE.
3. AT OPENINGS TO BE FILLED WITH NON-FLANGED FRAMES, SEAL WEATHER BARRIER TO EACH SIDE OF OPENING FRAMING, USING FLASHING AT LEAST 9 INCHES WIDE, COVERING ENTIRE DEPTH OF FRAMING.
4. AT HEAD OF OPENINGS, INSTALL FLASHING UNDER WEATHER BARRIER EXTENDING AT LEAST 2 INCHES BEYOND FACE OF JAMBS; SEAL WEATHER BARRIER TO FLASHING.
5. AT INTERIOR FACE OF OPENINGS, SEAL GAP BETWEEN WINDOW/DOOR FRAME AND ROUGH FRAMING, USING JOINT SEALANT OVER BACKER ROD.
6. SERVICE AND OTHER PENETRATIONS: FORM FLASHING AROUND PENETRATING ITEM AND SEAL TO WEATHER BARRIER SURFACE.

**3.04 PROTECTION**
A. DO NOT LEAVE MATERIALS EXPOSED TO WEATHER LONGER THAN RECOMMENDED BY MANUFACTURER.

**END OF SECTION**

# SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
A. PERFORMANCE CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
B. METAL STUD WALL FRAMING.
C. WOOD STUD WALL FRAMING.
D. ACOUSTIC INSULATION.
E. GYPSUM WALLBOARD.
F. JOINT TREATMENT AND ACCESSORIES.

**1.02 RELATED REQUIREMENTS**
A. SECTION 06 10 00 - ROUGH CARPENTRY: BUILDING FRAMING AND SHEATHING.
B. SECTION 06 10 00 - ROUGH CARPENTRY: WOOD BLOCKING PRODUCT AND EXECUTION REQUIREMENTS.
C. SECTION 07 21 00 - THERMAL INSULATION: ACOUSTIC INSULATION.
D. SECTION 09 22 16 - NON-STRUCTURAL METAL FRAMING.

**1.03 REFERENCE STANDARDS**
A. ASTM B221 - STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY EXTRUDED BARS, RODS, WIRE, PROFILES, AND TUBES; 2014.
B. ASTM C475/C475M - STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD; 2017.
C. ASTM C557 - STANDARD SPECIFICATION FOR ADHESIVES FOR FASTENING GYPSUM WALLBOARD TO WOOD FRAMING; 2003 (REAPPROVED 2017).
D. ASTM C645 - STANDARD SPECIFICATION FOR NONSTRUCTURAL STEEL FRAMING MEMBERS; 2018.
E. ASTM C754 - STANDARD SPECIFICATION FOR INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW-ATTACHED GYPSUM PANEL PRODUCTS; 2018.
F. ASTM C840 - STANDARD SPECIFICATION FOR APPLICATION AND FINISHING OF GYPSUM BOARD; 2019A.
G. ASTM C954 - STANDARD SPECIFICATION FOR STEEL DRILL SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO STEEL STUDS FROM 0.033 IN. (0.84 MM) TO 0.112 IN. (2.84 MM) IN THICKNESS; 2018.
H. ASTM C1002 - STANDARD SPECIFICATION FOR STEEL SELF-PIERCING TAPPING SCREWS FOR APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD STUDS OR STEEL STUDS; 2018.
I. ASTM C1047 - STANDARD SPECIFICATION FOR ACCESSORIES FOR GYPSUM WALLBOARD AND GYPSUM VENEER BASE; 2014A (REAPPROVED 2019).
J. ASTM C1178/C1178M - STANDARD SPECIFICATION FOR COATED GLASS MAT WATER-RESISTANT GYPSUM BACKING PANEL; 2013.
K. ASTM C1396/C1396M - STANDARD SPECIFICATION FOR GYPSUM BOARD; 2017.
L. ASTM C1629/C1629M - STANDARD CLASSIFICATION FOR ABUSE-RESISTANT NONDECORATED INTERIOR GYPSUM PANEL PRODUCTS AND FIBER-REINFORCED CEMENT PANELS; 2018A.
M. ASTM C1658/C1658M - STANDARD SPECIFICATION FOR GLASS MAT GYPSUM PANELS; 2019.
N. ASTM D3273 - STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER; 2016.
O. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.
P. GA-216 - APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS; 2016.

**PART 2 PRODUCTS**

**2.01 GYPSUM BOARD ASSEMBLIES**
A. PROVIDE COMPLETED ASSEMBLIES COMPLYING WITH ASTM C840 AND GA-216.
B. INTERIOR PARTITIONS, INDICATED AS SOUND-RATED: PROVIDE COMPLETED ASSEMBLIES WITH THE FOLLOWING CHARACTERISTICS PER DRAWINGS
1. ACOUSTIC ATTENUATION: STC OF 45-49 CALCULATED IN ACCORDANCE WITH ASTM E413, BASED ON TESTS CONDUCTED IN ACCORDANCE WITH ASTM E90.

**2.02 METAL FRAMING MATERIALS**
A. MANUFACTURERS - METAL FRAMING, CONNECTORS, AND ACCESSORIES:
1. CLARK DK DIETRICH: www.clarkdietrich.com
2. SIMILAR AS APPROVED BY OWNER.
B. NON-STRUCTURAL FRAMING SYSTEM COMPONENTS: ASTM C645; GALVANIZED SHEET STEEL, OF SIZE AND PROPERTIES NECESSARY TO COMPLY WITH ASTM C754 FOR THE SPACING INDICATED, WITH MAXIMUM DEFLECTION OF WALL FRAMING OF L/120 AT 5 PSF.
1. STUDS: "C" SHAPED WITH KNURLED OR EMBOSSED FACES.
2. RUNNERS: U SHAPED, SIZED TO MATCH STUDS.
C. NON-STRUCTURAL FRAMING ACCESSORIES:
1. CEILING HANGERS: TYPE AND SIZE AS SPECIFIED IN ASTM C754 FOR SPACING REQUIRED.
2. PARTIAL HEIGHT WALL FRAMING SUPPORT: PROVIDES STUD REINFORCEMENT AND ANCHORED CONNECTION TO FLOOR.

**2.03 BOARD MATERIALS**
A. MANUFACTURERS - GYPSUM-BASED BOARD:
1. AMERICAN GYPSUM COMPANY: www.americangypsum.com
2. CERTAINTEED CORPORATION: www.certainteed.com
3. GEORGIA-PACIFIC GYPSUM: www.gpgypsum.com
4. NATIONAL GYPSUM COMPANY: www.nationalgypsum.com
B. GYPSUM WALLBOARD: PAPER-FACED GYPSUM PANELS AS DEFINED IN ASTM C1396/C1396M; SIZES TO MINIMIZE JOINTS IN PLACE; ENDS SQUARE CUT.
1. APPLICATION: USE FOR VERTICAL SURFACES AND CEILINGS, UNLESS OTHERWISE INDICATED.
2. MOISTURE / MOLD RESISTANCE: SCORE OF 10, WHEN TESTED IN ACCORDANCE WITH ASTM D3273.
A. MOLD RESISTANT BOARD IS REQUIRED AT ALL LOCATIONS.
B. MOISTURE RESISTANT BOARD IS REQUIRED AT ALL WET LOCATIONS: RESTROOMS AND BREAKROOM BEHIND MILLWORK.
3. THICKNESS:
A. VERTICAL SURFACES: AS INDICATED ON DRAWINGS IN INCHES.
B. MULTI-LAYER ASSEMBLIES: THICKNESSES AS INDICATED ON DRAWINGS.
4. PAPER-FACED PRODUCTS:
A. AMERICAN GYPSUM COMPANY; LIGHTROC GYPSUM WALLBOARD.
B. AMERICAN GYPSUM COMPANY; FIREBLOC TYPE X GYPSUM WALLBOARD.
C. GEORGIA-PACIFIC GYPSUM; TOUGHROCK.
D. GEORGIA-PACIFIC GYPSUM; TOUGHROCK FIREGUARD X.
E. SIMILAR AS APPROVED BY OWNER.
5. MOLD RESISTANT PAPER FACED PRODUCTS:
A. AMERICAN GYPSUM COMPANY; M-BLOC.
B. AMERICAN GYPSUM COMPANY; M-BLOC TYPE X.
C. CERTAINTEED CORPORATION; M2TECH 5/8" TYPE C OR TYPE X MOISTURE & MOLD RESISTANT DRYWALL.
D. GEORGIA-PACIFIC GYPSUM; TOUGHROCK MOLD-GUARD.
E. GEORGIA-PACIFIC GYPSUM; TOUGHROCK FIREGUARD X MOLD-GUARD.

**2.04 GYPSUM WALLBOARD ACCESSORIES**
A. ACOUSTIC INSULATION: AS SPECIFIED IN SECTION 07 21 00.
B. SOUND ISOLATION TAPE: ELASTOMERIC FOAM TAPE FOR SOUND DECOUPLING.
1. SURFACE BURNING CHARACTERISTICS: PROVIDE ASSEMBLIES WITH FLAME SPREAD INDEX OF 75 OR LESS AND SMOKE DEVELOPED INDEX OF 450 OR LESS, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
2. TAPE THICKNESS: 1/4 INCH.
3. PRODUCTS:
A. ARMACELL LLC; ARMASOUND MTD: www.armacell.us
C. ACOUSTIC SEALANT: ACRYLIC EMULSION LATEX OR WATER-BASED ELASTOMERIC SEALANT; DO NOT USE SOLVENT-BASED NON-CURING BUTYL SEALANT.
1. PRODUCTS:
A. FRANKLIN INTERNATIONAL, INC; TITEBOND GREENCHOICE PROFESSIONAL ACOUSTICAL SMOKE AND SOUND SEALANT: www.titebond.com
b. LIQUID NAILS, A BRAND OF PPG ARCHITECTURAL COATINGS; AS-825 ACOUSTICAL SOUND SEALANT: www.liquidnails.com
c. SPECIFIED TECHNOLOGIES INC; SMOKE N SOUND ACOUSTICAL SEALANT: www.stifirestop.com
D. BEADS, JOINT ACCESSORIES, AND OTHER TRIM: ASTM C1047, RIGID PLASTIC, GALVANIZED STEEL, OR ROLLED ZINC, UNLESS NOTED OTHERWISE.
1. CORNER BEADS: LOW PROFILE, FOR 90 DEGREE OUTSIDE CORNERS.
A. PRODUCTS:
1) CERTAINTEED CORPORATION; NO-COAT DRYWALL CORNER: www.certainteed.com
2) CLARK DIETRICH; STRAIT-FLEX BIG-STICK: www.clarkdietrich.com
3) TRIM-TEX, INC; www.trim-tex.com
E. MOISTURE GUARD TRIM: ASTM C1047, RIGID PLASTIC, 48 INCH LENGTH, APPLIED TO BOTTOM EDGE OF GYPSUM BOARD. (IF REQUIRED BY OWNER – MINIMUM REQUIREMENT TO INSTALL GYPSUM BOARD ½" OFFSET VERTICALLY FROM FINISH FLOOR).
1. PRODUCTS:
A. WATERGUARD USA; WATERGUARD: www.waterguard-usa.com
F. JOINT MATERIALS: ASTM C475/C475M AND AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR PROJECT CONDITIONS.
G. SCREWS FOR FASTENING OF GYPSUM PANEL PRODUCTS TO COLD-FORMED STEEL STUDS LESS THAN 0.033 INCH IN THICKNESS AND WOOD MEMBERS: ASTM C1002; SELF-PIERCING TAPPING SCREWS, CORROSION RESISTANT.
H. SCREWS FOR FASTENING OF GYPSUM PANEL PRODUCTS TO STEEL MEMBERS FROM 0.033 TO 0.112 INCH IN THICKNESS: ASTM C954; STEEL DRILL SCREWS, CORROSION RESISTANT.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
A. VERIFY THAT PROJECT CONDITIONS ARE APPROPRIATE FOR WORK OF THIS SECTION TO COMMENCE.

**3.02 FRAMING INSTALLATION**
A. METAL FRAMING: INSTALL IN ACCORDANCE WITH ASTM C754 AND MANUFACTURER'S INSTRUCTIONS.
B. STUDS: SPACE STUDS AT 16 INCHES ON CENTER.
1. EXTEND PARTITION FRAMING TO STRUCTURE WHERE INDICATED AND TO CEILING IN OTHER LOCATIONS.
2. PARTITIONS TERMINATING AT CEILING: ATTACH CEILING RUNNER SECURELY TO CEILING TRACK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. OPENINGS: REINFORCE OPENINGS AS REQUIRED FOR WEIGHT OF DOORS OR OPERABLE PANELS, USING NOT LESS THAN DOUBLE STUDS AT JAMBS.
D. FURRING FOR FIRE RATINGS: INSTALL AS REQUIRED FOR FIRE RESISTANCE RATINGS INDICATED AND TO GA-600 REQUIREMENTS.
E. BLOCKING: INSTALL WOOD BLOCKING FOR SUPPORT OF:
1. FRAMED OPENINGS.
2. WALL MOUNTED CABINETS.
3. PLUMBING FIXTURES.
4. TOILET PARTITIONS.
5. TOILET ACCESSORIES.
6. WALL MOUNTED DOOR HARDWARE.

**3.03 ACOUSTIC ACCESSORIES INSTALLATION**
A. SOUND ISOLATION TAPE: APPLY TO VERTICAL STUDS AND TOP AND BOTTOM TRACKS/RUNNERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. ACOUSTIC SEALANT: INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**3.04 BOARD INSTALLATION**
A. COMPLY WITH ASTM C840, GA-216, AND MANUFACTURER'S INSTRUCTIONS. INSTALL TO MINIMIZE BUTT END JOINTS, ESPECIALLY IN HIGHLY VISIBLE LOCATIONS.
B. FIRE-RATED CONSTRUCTION: INSTALL GYPSUM BOARD IN STRICT COMPLIANCE WITH REQUIREMENTS OF ASSEMBLY LISTING.
C. CEMENTITIOUS BACKING BOARD: INSTALL OVER STEEL FRAMING MEMBERS, WOOD FRAMING MEMBERS, AND PLYWOOD SUBSTRATE WHERE INDICATED, IN ACCORDANCE WITH ANSI A108.11 AND MANUFACTURER'S INSTRUCTIONS.
D. INSTALLATION ON METAL FRAMING: USE SCREWS FOR ATTACHMENT OF GYPSUM BOARD EXCEPT FACE LAYER OF NON-RATED DOUBLE-LAYER ASSEMBLIES, WHICH MAY BE INSTALLED BY MEANS OF ADHESIVE LAMINATION.
E. INSTALLATION ON WOOD FRAMING: FOR RATED ASSEMBLIES, COMPLY WITH REQUIREMENTS OF LISTING AUTHORITY. FOR NON-RATED ASSEMBLIES, INSTALL AS FOLLOWS:
1. SINGLE-LAYER APPLICATIONS: ADHESIVE APPLICATION.
2. DOUBLE-LAYER APPLICATION: INSTALL BASE LAYER USING SCREWS OR NAILS. INSTALL FACE LAYER USING ADHESIVE.

**3.05 INSTALLATION OF TRIM AND ACCESSORIES**
A. CONTROL JOINTS: PLACE CONTROL JOINTS CONSISTENT WITH LINES OF BUILDING SPACES AND AS INDICATED.
1. NOT MORE THAN 30 FEET APART ON WALLS AND CEILINGS OVER 50 FEET LONG.
2. AT EXTERIOR SOFFITS, NOT MORE THAN 30 FEET APART IN BOTH DIRECTIONS.
B. CORNER BEADS: INSTALL AT EXTERNAL CORNERS, USING LONGEST PRACTICAL LENGTHS.
C. EDGE TRIM: INSTALL AT LOCATIONS WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
D. MOISTURE GUARD TRIM: INSTALL ON BOTTOM EDGE OF GYPSUM BOARD ACCORDING TO MANUFACTURER'S INSTRUCTIONS. (IF REQUIRED BY OWNER – MINIMUM REQUIREMENT TO INSTALL GYPSUM BOARD ½" OFFSET VERTICALLY FROM FINISH FLOOR).

**3.07 JOINT TREATMENT**
A. GLASS MAT FACED GYPSUM BOARD AND EXTERIOR GLASS MAT FACED SHEATHING: USE FIBERGLASS JOINT TAPE, EMBED AND FINISH WITH SETTING TYPE JOINT COMPOUND.
B. PAPER FACED GYPSUM BOARD: USE PAPER JOINT TAPE, EMBED WITH DRYING TYPE JOINT COMPOUND AND FINISH WITH DRYING TYPE JOINT COMPOUND.
C. FINISH GYPSUM BOARD IN ACCORDANCE WITH LEVELS DEFINED IN ASTM C840, AS FOLLOWS:
1. LEVEL 5: WALLS AND CEILINGS TO RECEIVE SEMI-GLOSS OR GLOSS PAINT FINISH AND OTHER AREAS SPECIFICALLY INDICATED.
2. LEVEL 4: WALLS AND CEILINGS TO RECEIVE PAINT FINISH OR WALL COVERINGS, UNLESS OTHERWISE INDICATED.
3. LEVEL 3: WALLS TO RECEIVE TEXTURED WALL FINISH.
4. LEVEL 2: IN UTILITY AREAS, BEHIND CABINETRY, AND ON BACKING BOARD TO RECEIVE TILE FINISH.
5. LEVEL 1: FIRE RATED WALL AREAS ABOVE FINISHED CEILINGS, WHETHER OR NOT ACCESSIBLE IN THE COMPLETED CONSTRUCTION.
6. LEVEL 0: TEMPORARY PARTITIONS.
7. LEVEL 0: SURFACES INDICATED TO BE FINISHED IN LATER STAGE OF PROJECT.
D. TAPE, FILL, AND SAND EXPOSED JOINTS, EDGES, AND CORNERS TO PRODUCE SMOOTH SURFACE READY TO RECEIVE FINISHES.
E. WHERE LEVEL 5 FINISH IS INDICATED, SPRAY APPLY HIGH BUILD DRYWALL SURFACER OVER ENTIRE SURFACE AFTER JOINTS HAVE BEEN PROPERLY TREATED; ACHIEVE A FLAT AND TOOL MARK-FREE FINISH.
F. FILL AND FINISH JOINTS AND CORNERS OF CEMENTITIOUS BACKING BOARD AS RECOMMENDED BY MANUFACTURER.

**3.08 TOLERANCES**
A. MAXIMUM VARIATION OF FINISHED GYPSUM BOARD SURFACE FROM TRUE FLATNESS: 1/8 INCH IN 10 FEET IN ANY DIRECTION.

**END OF SECTION**

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:** Kyle Wojciechowski 214-766-3410
**Architect:** Contact: Dan

# SECTION 09 51 00 - ACOUSTICAL CEILINGS

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
- A. SUSPENDED METAL GRID CEILING SYSTEM.
- B. ACOUSTICAL UNITS.

**1.02 REFERENCE STANDARDS**
- A. ASCE 7 - MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES; MOST RECENT EDITION CITED BY REFERRING CODE OR REFERENCE STANDARD.
- B. ASTM C423 - STANDARD TEST METHOD FOR SOUND ABSORPTION AND SOUND ABSORPTION COEFFICIENTS BY THE REVERBERATION ROOM METHOD; 2017.
- C. ASTM C635/C635M - STANDARD SPECIFICATION FOR THE MANUFACTURE, PERFORMANCE, AND TESTING OF METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS; 2017.
- D. ASTM C636/C636M - STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS; 2013.
- E. ASTM E84 - STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS; 2018.
- F. ASTM E119 - STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS; 2019.
- G. ASTM E580/E580M - STANDARD PRACTICE FOR INSTALLATION OF CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS SUBJECT TO EARTHQUAKE GROUND MOTIONS; 2017.
- H. ASTM E1264 - STANDARD CLASSIFICATION FOR ACOUSTICAL CEILING PRODUCTS; 2019.

**1.03 ADMINISTRATIVE REQUIREMENTS**
- A. SEQUENCE WORK TO ENSURE ACOUSTICAL CEILINGS ARE NOT INSTALLED UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED, AND OVERHEAD WORK IS COMPLETED, TESTED, AND APPROVED.
- B. DO NOT INSTALL ACOUSTICAL UNITS UNTIL AFTER INTERIOR WET WORK IS DRY.

**1.04 QUALITY ASSURANCE**
- A. SUSPENSION SYSTEM MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- B. ACOUSTICAL UNIT MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

**1.05 FIELD CONDITIONS**
- A. MAINTAIN UNIFORM TEMPERATURE OF MINIMUM 60 DEGREES F, AND MAXIMUM HUMIDITY OF 40 PERCENT PRIOR TO, DURING, AND AFTER ACOUSTICAL UNIT INSTALLATION.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**
- A. ACOUSTIC TILES/PANELS:
  1. ARMSTRONG WORLD INDUSTRIES, INC: www.armstrongceilings.com
  2. GOLD BOND BUILDING PRODUCTS: www.goldbondbuilding.com
- B. SUSPENSION SYSTEMS:
  1. ARMSTRONG WORLD INDUSTRIES, INC: www.armstrongceilings.com
  2. GOLD BOND BUILDING PRODUCTS: www.goldbondbuilding.com

**2.02 PERFORMANCE REQUIREMENTS**
- A. SEISMIC PERFORMANCE: CEILING SYSTEMS DESIGNED TO WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE 7 FOR SEISMIC DESIGN CATEGORY D, E, OR F AND COMPLYING WITH THE FOLLOWING:
  1. LOCAL AUTHORITIES HAVING JURISDICTION.

**2.03 PRODUCTS**
- A. Acoustical Panels (AC1): as indicated on drawings.
- B. Acoustical Panels (AC2): As indicated on drawings.

**2.04 SUSPENSION SYSTEM(S)**
- A. METAL SUSPENSION SYSTEMS - GENERAL: COMPLYING WITH ASTM C635/C635M; DIE CUT AND INTERLOCKING COMPONENTS, WITH PERIMETER MOLDINGS, HOLD DOWN CLIPS, STABILIZER BARS, CLIPS, AND SPLICES AS REQUIRED.

**2.05 ACCESSORIES**
- A. SUPPORT CHANNELS AND HANGERS: GALVANIZED STEEL; SIZE AND TYPE TO SUIT APPLICATION, SEISMIC REQUIREMENTS, AND CEILING SYSTEM FLATNESS REQUIREMENT SPECIFIED.
- B. HANGER WIRE: 12-GAGE 0.08 INCH GALVANIZED STEEL WIRE.
- C. HOLD-DOWN CLIPS: MANUFACTURER'S STANDARD CLIPS TO SUIT APPLICATION.
- D. SEISMIC CLIPS: MANUFACTURER'S STANDARD CLIPS FOR SEISMIC CONDITIONS AND TO SUIT APPLICATION.
- E. PERIMETER MOLDINGS: SAME METAL AND FINISH AS GRID.
- F. TOUCH-UP PAINT: TYPE AND COLOR TO MATCH ACOUSTICAL AND GRID UNITS.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
- A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.
- B. VERIFY THAT LAYOUT OF HANGERS WILL NOT INTERFERE WITH OTHER WORK.

**3.02 PREPARATION**
- A. INSTALL AFTER MAJOR ABOVE-CEILING WORK IS COMPLETE.
- B. COORDINATE THE LOCATION OF HANGERS WITH OTHER WORK.

**3.03 INSTALLATION - SUSPENSION SYSTEM**
- A. INSTALL SUSPENSION SYSTEM IN ACCORDANCE WITH ASTM C636/C636M, ASTM E580/E580M, AND MANUFACTURER'S INSTRUCTIONS AND AS SUPPLEMENTED IN THIS SECTION.
- B. RIGIDLY SECURE SYSTEM, INCLUDING INTEGRAL MECHANICAL AND ELECTRICAL COMPONENTS, FOR MAXIMUM DEFLECTION OF 1:360.
- C. PERIMETER MOLDING: INSTALL AT INTERSECTION OF CEILING AND VERTICAL SURFACES AND AT JUNCTIONS WITH OTHER INTERRUPTIONS.
  1. USE LONGEST PRACTICAL LENGTHS.
- D. SUSPENSION SYSTEM, NON-SEISMIC: HANG SUSPENSION SYSTEM INDEPENDENT OF WALLS, COLUMNS, DUCTS, PIPES AND CONDUIT. WHERE CARRYING MEMBERS ARE SPLICED, AVOID VISIBLE DISPLACEMENT OF FACE PLANE OF ADJACENT MEMBERS.
- E. SEISMIC SUSPENSION SYSTEM, SEISMIC DESIGN CATEGORIES D, E, F: HANG SUSPENSION SYSTEM WITH GRID ENDS ATTACHED TO THE PERIMETER MOLDING ON TWO ADJACENT WALLS; ON OPPOSITE WALLS, MAINTAIN A 3/4 INCH CLEARANCE BETWEEN GRID ENDS AND WALL.
- F. WHERE DUCTS OR OTHER EQUIPMENT PREVENT THE REGULAR SPACING OF HANGERS, REINFORCE THE NEAREST AFFECTED HANGERS AND RELATED CARRYING CHANNELS TO SPAN THE EXTRA DISTANCE.
- G. DO NOT SUPPORT COMPONENTS ON MAIN RUNNERS OR CROSS RUNNERS IF WEIGHT CAUSES TOTAL DEAD LOAD TO EXCEED DEFLECTION CAPABILITY.
- H. SUPPORT FIXTURE LOADS USING SUPPLEMENTARY HANGERS LOCATED WITHIN 6 INCHES OF EACH CORNER, OR SUPPORT COMPONENTS INDEPENDENTLY.
- I. DO NOT ECCENTRICALLY LOAD SYSTEM OR INDUCE ROTATION OF RUNNERS.

**3.04 INSTALLATION - ACOUSTICAL UNITS**
- A. INSTALL ACOUSTICAL UNITS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION.
- C. FIT BORDER TRIM NEATLY AGAINST ABUTTING SURFACES.
- D. INSTALL ACOUSTICAL UNITS LEVEL, IN UNIFORM PLANE, AND FREE FROM TWIST, WARP, AND DENTS.
- E. CUTTING ACOUSTICAL UNITS:
  1. MAKE FIELD CUT EDGES OF SAME PROFILE AS FACTORY EDGES.

**END OF SECTION**

# SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
- A. FIRE EXTINGUISHERS.
- B. ACCESSORIES.

**1.02 RELATED REQUIREMENTS**
- A. SECTION 06 10 00 - ROUGH CARPENTRY: WOOD BLOCKING PRODUCT AND EXECUTION REQUIREMENTS.
- B. SECTION 09 91 23 - INTERIOR PAINTING: FIELD PAINT FINISH.

**1.03 REFERENCE STANDARDS**
- A. ASTM E814 - STANDARD TEST METHOD FOR FIRE TESTS OF PENETRATION FIRESTOP SYSTEMS; 2013A (REAPPROVED 2017).
- B. FM (AG) - FM APPROVAL GUIDE; CURRENT EDITION.
- C. NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS; 2017, WITH ERRATA (2018).
- D. UL (DIR) - ONLINE CERTIFICATIONS DIRECTORY; CURRENT EDITION.

**1.04 FIELD CONDITIONS**
- A. DO NOT INSTALL EXTINGUISHERS WHEN AMBIENT TEMPERATURE MAY CAUSE FREEZING OF EXTINGUISHER INGREDIENTS.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**
- A. FIRE EXTINGUISHERS:
  1. ANSUL, A TYCO BUSINESS: www.ansul.com
  2. NYSTROM, INC: www.nystrom.com
  3. PYRO-CHEM, A TYCO BUSINESS: www.pyrochem.com

**2.02 FIRE EXTINGUISHERS**
- A. COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
- B. WATER TYPE FIRE EXTINGUISHERS: STAINLESS STEEL TANK, PRESSURIZED, WITH PREMIXED ANTIFREEZE SOLUTION, INCLUDING HOSE AND NOZZLE.
  1. CLASS: 2-A TYPE.
  2. SIZE: 2.5 GALLON.
  3. TEMPERATURE RANGE: MINUS 40 DEGREES F TO 120 DEGREES F.

**2.03 ACCESSORIES**
- A. EXTINGUISHER BRACKETS: FORMED STEEL, CHROME-PLATED.
- B. LETTERING: "FIRE EXTINGUISHER" DECAL, OR VINYL SELF-ADHERING, PRE-SPACED BLACK LETTERING IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION (AHJ).

**PART 3 EXECUTION**

**3.01 EXAMINATION**
- A. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK.

**3.02 INSTALLATION**
- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**3.03 MAINTENANCE - SELF-SERVICE FIRE EXTINGUISHERS**
- A. MONTHLY INSPECTIONS: INSPECT SELF-SERVICE FIRE EXTINGUISHERS ON MONTHLY BASIS IN ACCORDANCE WITH MANUFACTURER 'S INSTRUCTIONS, AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (AHJ).
- B. ANNUAL INSPECTIONS: INSPECT SELF-SERVICE FIRE EXTINGUISHERS ON ANNUAL BASIS IN ACCORDANCE WITH MANUFACTURER 'S INSTRUCTIONS, AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION (AHJ).
- C. INSPECTION CERTIFICATION TAG: PROVIDE NEW TAG INDICATING ACCEPTABLE CONDITION OF FIRE EXTINGUISHER, DATE OF INSPECTION, AND NAME OF SELF-SERVICE INSPECTOR FOR EACH INSPECTION.

**END OF SECTION**

# 09 90 00 - EXTERIOR AND INTERIOR PAINT

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**
- A. SURFACE PREPARATION.
- B. FIELD APPLICATION OF PAINTS.
- C. SCOPE: FINISH SURFACES EXPOSED TO VIEW UNLESS OTHERWISE INDICATED. FINISH EXPOSED SURFACES OF STEEL LINTELS AND LEDGE ANGLES.
- D. DO NOT PAINT OR FINISH THE FOLLOWING ITEMS:
  1. FIRE RATING LABELS, EQUIPMENT SERIAL NUMBER AND CAPACITY LABELS, BAR CODE LABELS, AND OPERATING PARTS OF EQUIPMENT.
  2. STAINLESS STEEL, ANODIZED ALUMINUM, BRONZE, TERNE COATED STAINLESS STEEL, AND LEAD ITEMS.
  3. MARBLE, GRANITE, SLATE, AND OTHER NATURAL STONES.
  4. FLOORS, UNLESS SPECIFICALLY INDICATED.
  5. CERAMIC AND OTHER TILES.
  6. GLASS.

**1.02 REFERENCE STANDARDS**
- A. 40 CFR 59, SUBPART D - NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS; U.S. ENVIRONMENTAL PROTECTION AGENCY; CURRENT EDITION.
- B. ASTM D16 - STANDARD TERMINOLOGY FOR PAINT, RELATED COATINGS, MATERIALS, AND APPLICATIONS; 2016.
- C. ASTM D4442 - STANDARD TEST METHODS FOR DIRECT MOISTURE CONTENT MEASUREMENT OF WOOD AND WOOD-BASED MATERIALS; 2016.
- D. MPI (APSM) - MASTER PAINTERS INSTITUTE ARCHITECTURAL PAINTING SPECIFICATION MANUAL; CURRENT EDITION.
- E. ASTM D4258 - STANDARD PRACTICE FOR SURFACE CLEANING CONCRETE FOR COATING; 2005 (REAPPROVED 2017).
- F. ASTM D4259 - STANDARD PRACTICE FOR PREPARATION OF CONCRETE BY ABRASION PRIOR TO COATING APPLICATION; 2018.
- G. ASTM D4260 - STANDARD PRACTICE FOR LIQUID AND GELLED ACID ETCHING OF CONCRETE; 2005 (REAPPROVED 2017).
- H. SSPC-SP 1 - SOLVENT CLEANING; 2015, WITH EDITORIAL REVISION (2016).

**1.03 QUALITY ASSURANCE**
- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED, WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

**1.04 DELIVERY, STORAGE, AND HANDLING**
- A. DELIVER PRODUCTS TO SITE IN SEALED AND LABELED CONTAINERS; INSPECT TO VERIFY ACCEPTABILITY.
- B. CONTAINER LABEL: INCLUDE MANUFACTURER'S NAME, TYPE OF PAINT, BRAND NAME, LOT NUMBER, BRAND CODE, COVERAGE, SURFACE PREPARATION, DRYING TIME, CLEANUP REQUIREMENTS, COLOR DESIGNATION, AND INSTRUCTIONS FOR MIXING AND REDUCING.
- C. PAINT MATERIALS: STORE AT MINIMUM AMBIENT TEMPERATURE OF 45 DEGREES F AND A MAXIMUM OF 90 DEGREES F, IN VENTILATED AREA, AND AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS.

**1.05 FIELD CONDITIONS**
- A. DO NOT APPLY MATERIALS WHEN SURFACE AND AMBIENT TEMPERATURES ARE OUTSIDE THE TEMPERATURE RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- B. FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR PRODUCING BEST RESULTS, INCLUDING TESTING OF SUBSTRATES, MOISTURE IN SUBSTRATES, AND HUMIDITY AND TEMPERATURE LIMITATIONS.
- C. DO NOT APPLY MATERIALS WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEGREES F ABOVE THE DEW POINT; OR TO DAMP OR WET SURFACES.
- D. MINIMUM APPLICATION TEMPERATURES FOR PAINTS: 50 DEGREES F UNLESS REQUIRED OTHERWISE BY MANUFACTURER'S INSTRUCTIONS.
- E. PROVIDE LIGHTING LEVEL OF 80 FT CANDLES MEASURED MID-HEIGHT AT SUBSTRATE SURFACE.
- F. DO NOT APPLY EXTERIOR PAINT AND FINISHES DURING RAIN OR SNOW, OR WHEN RELATIVE HUMIDITY IS OUTSIDE THE HUMIDITY RANGES REQUIRED BY THE PAINT PRODUCT MANUFACTURER.
- G. PROVIDE LIGHTING LEVEL OF 80 FT CANDLES MEASURED MID-HEIGHT AT SUBSTRATE SURFACE.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**
- A. PROVIDE PAINTS AND FINISHES USED IN ANY INDIVIDUAL SYSTEM FROM THE SAME MANUFACTURER; NO EXCEPTIONS.
- B. PAINTS: SHERWIN-WILLIAMS COMPANY: www.sherwin-williams.com
- C. PRIMER SEALERS: SAME MANUFACTURER AS TOP COATS.

**2.02 PAINTS AND FINISHES - GENERAL**
- A. PAINTS AND FINISHES: READY MIXED, UNLESS INTENDED TO BE A FIELD-CATALYZED PAINT.
  1. PROVIDE PAINTS AND FINISHES OF A SOFT PASTE CONSISTENCY, CAPABLE OF BEING READILY AND UNIFORMLY DISPERSED TO A HOMOGENEOUS COATING, WITH GOOD FLOW AND BRUSHING PROPERTIES, AND CAPABLE OF DRYING OR CURING FREE OF STREAKS OR SAGS.
  2. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
  3. FOR OPAQUE FINISHES, TINT EACH COAT INCLUDING PRIMER COAT AND INTERMEDIATE COATS, ONE-HALF SHADE LIGHTER THAN SUCCEEDING COAT, WITH FINAL FINISH COAT AS BASE COLOR.
  4. SUPPLY EACH PAINT MATERIAL IN QUANTITY REQUIRED TO COMPLETE ENTIRE PROJECTS WORK FROM A SINGLE PRODUCTION RUN.
  5. DO NOT REDUCE, THIN, OR DILUTE PAINT OR FINISHES OR ADD MATERIALS UNLESS SUCH PROCEDURE IS SPECIFICALLY DESCRIBED IN MANUFACTURER'S PRODUCT INSTRUCTIONS.
- B. VOLATILE ORGANIC COMPOUND (VOC) CONTENT:
  1. PROVIDE PAINTS AND FINISHES THAT COMPLY WITH THE MOST STRINGENT REQUIREMENTS SPECIFIED IN THE FOLLOWING:
     1. 40 CFR 59, SUBPART D (EPA METHOD 24) - VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS.
  2. DETERMINATION OF VOC CONTENT: TESTING AND CALCULATION IN ACCORDANCE WITH 40 CFR 59, SUBPART D (EPA METHOD 24), EXCLUSIVE OF COLORANTS ADDED TO A TINT BASE AND WATER ADDED AT PROJECT SITE; OR OTHER METHOD ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- C. FLAMMABILITY: COMPLY WITH APPLICABLE CODE FOR SURFACE BURNING CHARACTERISTICS.
- D. SHEENS: PROVIDE THE SHEENS SPECIFIED.
- E. COLORS: AS INDICATED ON DRAWINGS.
  1. IN FINISHED AREAS, FINISH PIPES, DUCTS, CONDUIT, AND EQUIPMENT THE SAME COLOR AS THE WALL/CEILING THEY ARE MOUNTED ON/UNDER.

**2.03 PAINT SYSTEMS - PER TSC STANDARDS:**

NOTE: APPLICATION MAY UTILIZE BRUCH, ROLLER, OR AIRLESS SPRAYER; **HOWEVER, ALL COATS MUST BE BACK-ROLLED.** SEE SHERWIN WILLIAMS DATA SHEET APPLICATION RECOMMENDATIONS.

**INTERIOR FINISHES:**

MASONRY (CONCRETE, SCORED, SMOOTH, HIGH/LOW DENSITY)
- SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE
  - 1ST COAT: PPG SPEEDHIDE BLOCK FILLER, 6-15XI (75-125 SQ. FT./GAL @ 16 MILS WET; 8 MILS DRY)
  - 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI
  - 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI (4 MILS WET, 1.3 MILS DRY PER COAT)

OUTER CORE AREAS

DRYWALL (WALLS, GYPSUM BOARD, PLASTER BOARD, ETC.)
- SEMI-GLOSS FINISH - COLOR TO MATCH PPG1001-1 DELICATE WHITE
  - 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900XI (4 MILS WET, 1.3 MILS DRY PER COAT)
  - 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI
  - 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI (4 MILS WET, 1.3 MILS DRY PER COAT)

INNER CORE AREAS

DRYWALL (WALLS, GYPSUM BOARD, PLASTER BOARD, ETC.)
- SEMI-GLOSS FINISH - COLOR TO MATCH PPG1024-3 CRUSHED SILK
  - 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900XI (4 MILS WET, 1.3 MILS DRY PER COAT)
  - 2ND COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI
  - 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI (4 MILS WET, 1.3 MILS DRY PER COAT)

WOOD (DOORS)

SEMI-GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON
- 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900XI (4 MILS WET, 1.3 MILS DRY PER COAT)
- 2ND COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250
- 3RD COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 (4 MILS WET, 1.3 MILS DRY PER COAT)

RED ACCENT STRIPE (IN RETAIL SALES AREA - 10'-3" TO BOTTOM OF STRIPE, 12" HIGH STRIPE)
- SEMI-GLOSS FINISH - PPG SAFETY RED
  - 1ST COAT: PPG SPEEDHIDE ZERO LATEX PRIMER, 6-4900XI (4 MILS WET, 1.3 MILS DRY)
  - 2ND COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250
  - 3RD COAT: PPG ACCENT COLOR BASE LATEX SEMI-GLOSS, 25-250 (4 MILS WET, 1.5 MILS DRY PER COAT)

**EXPOSED DECK & JOISTS (PRE-PRIMED GREY) PREFERRED OR AS APPROVED BY TSC**

INTERIOR COLUMNS (METAL)
- GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON
  - 1ST COAT: PPG MULTIPRIME UNIVERSAL METAL PRIMER, 94-269 (6.0 - 8.0 MILS WET / 3.0 - 4.0 MILS DRY PER COAT
  - 2ND COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI
  - 3RD COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI (4 MILS WET, 1.3 MILS DRY PER COAT)

EXTERIOR METAL AND INTERIOR WOOD DOORS:
- COLOR TO MATCH PPG1007-5, LAZY AFTERNOON
  - 1ST COAT: FACTORY PRIMED
  - REMAINING COATS: FACTORY FINISHED

TOUCH-UP PAINT PROVIDED BY DH PACE

**EXTERIOR BUILDING FINISHES:**

MOISTURE CONTENT CRITERIA FOR EXISTING EXTERIOR CONCRETE MASONRY UNITS AND EXISTING EXTERIOR CONCRETE:
GENERAL CONTRACTOR, OR, THE OWNERS TESTING COMPANY SHALL PROVIDE MOISTURE TESTING OF ALL CMU AND CONCRETE EXTERIOR WALL PER ASTM D4263 PRIOR TO APPLICATION OF PAINT. TSC PROJECT MANAGER MUST APPROVE THE APPLICATION OF PAINT IN WRITING, IF THE MOISTURE CONTENT IS ABOVE 15%

CONCRETE MASONRY UNITS FOR CONVENTIONAL BUILDINGS:
PPG PAINTS ACRYLIC SYSTEM
- FLAT FINISH - COLOR TO MATCH PPG1021-4 DIVERSION TO 4'-0" A.F.F., PPG1097-4 DUSTY TRAIL FROM 4'-0" A.F.F. TO TOP OF C.M.U ON ALL SIDES
  - 1ST COAT: PPG PERMA-CRETE BLOCK SURFACER, 4-100XI (60-100 SQ FT / GAL @ 16 MILS WET; 9 MILS DRY)
  - 2ND COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22XI
  - 3RD COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22XI (12 MILS WET, 5.0 MILS PER DRY COAT) (ACCEPTABLE TOLERANCE IS 9-10 PINHOLES PER SQ. FT.)

RED ACCENT STRIPE (CONCRETE MASONRY UNITS)
- HIGH GLOSS FINISH - COLOR TO MATCH SW4081 SAFETY RED ON FRONT, LEFT, AND RIGHT SIDES
  - 2 COATS: PPG PSX ONE HIGH SOLIDS SINGLE COMPONENT POLYSILOXANE, PXONET4 SAFETY RED @ 16 MILS WET, 9 MILS DRY) APPLY AS NEEDED FOR COMPLETE COVERAGE (NO CLEAR COAT NEEDED)

LIGHTING POLE BASES:
GLOSS FINISH - COLOR SW4084 SAFETY YELLOW
- 1ST COAT: PPG PERMA-CRETE BLOCK SURFACER, 4-100XI (60-100 SQ FT / GAL @ 16 MILS WET; 9 MILS DRY)
- 2ND COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22XI
- 3RD COAT: PPG PERMA-CRETE HIGH BUILD ACRYLIC COATING, 4-22XI APPLY AS NEEDED FOR COMPLETE COVERAGE (NO TINTING REQUIRED - PACKAGE SAFETY YELLOW)

LOADING DOCK GUARDRAILS AND HOLLOW METAL DOOR & FRAMES
GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON
- 1ST COAT: PPG MULTIPRIME UNIVERSAL METAL PRIMER, 94-269 (5.0 - 7.0 MLS WET / 3.0 - 4.0 MILS DRY PER COAT)
- 2ND COAT: PPG INDUSTRIAL ENAMEL, 7-814
- 3RD COAT: PPG INDUSTRIAL ENAMEL, 7-814 (2.0 - 3.0 MILS DRY PER COAT)

E.I.F.S. APPLY AS NEEDED FOR COMPLETE COVERAGE
E.I.F.S. (ACCENT)
- DRYVIT, COLOR MATCH TO PXONET4 SAFETY RED

EXISTING OVERHEAD DOORS AND MAN DOORS
GLOSS FINISH - COLOR TO MATCH SW7005 PURE WHITE
- 1ST COAT: S-W KEM KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES (6.0 - 8.0 MILS WET / 3.0 - 4.0 MILS DRY PER COAT)
- 2ND COAT: S-W INDUSTRIAL ENAMAL HS, B54Z400 SERIES
- 3RD COAT: S-W INDUSTRIAL ENAMAL HS, B54Z400 SERIES (2.0 - 4.0 MILS DRY PER COAT) APPLY AS NEEDED FOR COMPLETE COVERAGE

METAL DOOR FRAMES:
- GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON
  - 1ST COAT: FACTORY PRIMED
  - 2ND COAT: SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI
  - 3RD COAT: PPG SPEEDHIDE PRO-EV LATEX SEMI-GLOSS, 12-510XI (4 MILS WET, 1.3 MILS DRY PER COAT)

METAL DOOR FRAMES - OPTION
- GLOSS FINISH - COLOR TO MATCH PPG1007-5 LAZY AFTERNOON
  - 1ST COAT: FACTORY PRIMED
  - 2ND COAT: PPG PITT-TECH PLUS DTM GLOSS, 90-1310
  - 3RD COAT: PPG PITT-TECH PLUS DTM GLOSS, 90-1310 (5 MILS WET, 2 MILS DRY PER COAT)

**2.04 ACCESSORY MATERIALS**
- A. ACCESSORY MATERIALS: PROVIDE PRIMERS, SEALERS, CLEANING AGENTS, CLEANING CLOTHS, SANDING MATERIALS, AND CLEAN-UP MATERIALS AS REQUIRED FOR FINAL COMPLETION OF PAINTED SURFACES.
- B. PATCHING MATERIAL: LATEX FILLER.
- C. FASTENER HEAD COVER MATERIAL: LATEX FILLER.

**PART 3 EXECUTION**

**3.01 EXAMINATION**
- A. DO NOT BEGIN APPLICATION OF PAINTS AND FINISHES UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
- B. VERIFY THAT SURFACES ARE READY TO RECEIVE WORK AS INSTRUCTED BY THE PRODUCT MANUFACTURER.
- C. EXAMINE SURFACES SCHEDULED TO BE FINISHED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY CONDITION THAT MAY POTENTIALLY EFFECT PROPER APPLICATION.
- D. TEST SHOP-APPLIED PRIMER FOR COMPATIBILITY WITH SUBSEQUENT COVER MATERIALS.
- E. MEASURE MOISTURE CONTENT OF SURFACES USING AN ELECTRONIC MOISTURE METER. DO NOT APPLY FINISHES UNLESS MOISTURE CONTENT OF SURFACES ARE BELOW THE FOLLOWING MAXIMUMS:
  1. FIBER CEMENT SIDING: 12 PERCENT.
  2. MASONRY, CONCRETE, AND CONCRETE MASONRY UNITS: 12 PERCENT.
  3. EXTERIOR WOOD: 15 PERCENT, MEASURED IN ACCORDANCE WITH ASTM D4442.
  4. CONCRETE FLOORS AND TRAFFIC SURFACES: 8 PERCENT.

**3.02 PREPARATION**
- A. CLEAN SURFACES THOROUGHLY AND CORRECT DEFECTS PRIOR TO APPLICATION.
- B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
- C. REMOVE OR MASK SURFACE APPURTENANCES, INCLUDING ELECTRICAL PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTINGS, PRIOR TO PREPARING SURFACES OR FINISHING.
- D. SEAL SURFACES THAT MIGHT CAUSE BLEED THROUGH OR STAINING OF TOPCOAT.
- E. CONCRETE FLOORS AND TRAFFIC SURFACES: REMOVE CONTAMINATION, ACID ETCH, AND RINSE FLOORS WITH CLEAR WATER. VERIFY REQUIRED ACID-ALKALI BALANCE IS ACHIEVED. ALLOW TO DRY.
- F. GYPSUM BOARD: FILL MINOR DEFECTS WITH FILLER COMPOUND. SPOT PRIME DEFECTS AFTER REPAIR.
- G. WOOD SURFACES TO RECEIVE OPAQUE FINISH: WIPE OFF DUST AND GRIT PRIOR TO PRIMING. SEAL KNOTS, PITCH STREAKS, AND SAPPY SECTIONS WITH SEALER. FILL NAIL HOLES AND CRACKS AFTER PRIMER HAS DRIED; SAND BETWEEN COATS. BACK PRIME CONCEALED SURFACES BEFORE INSTALLATION.
- H. WOOD DOORS TO BE FIELD-FINISHED: SEAL WOOD DOOR TOP AND BOTTOM EDGE SURFACES WITH TINTED PRIMER.
- I. METAL DOORS TO BE PAINTED: PRIME METAL DOOR TOP AND BOTTOM EDGE SURFACES.
- J. REMOVE MILDEW FROM IMPERVIOUS SURFACES BY SCRUBBING WITH SOLUTION OF TETRA-SODIUM PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY.
- K. EXTERIOR GYPSUM BOARD: FILL MINOR DEFECTS WITH EXTERIOR FILLER COMPOUND. SPOT PRIME DEFECTS AFTER REPAIR.
- L. ASPHALT, CREOSOTE, OR BITUMINOUS SURFACES: REMOVE FOREIGN PARTICLES TO PERMIT ADHESION OF FINISHING MATERIALS. APPLY LATEX BASED SEALER OR PRIMER.
- M. ALUMINUM: REMOVE SURFACE CONTAMINATION AND OILS AND WASH WITH SOLVENT ACCORDING TO SSPC-SP 1.
- N. EXTERIOR WOOD SURFACES TO RECEIVE OPAQUE FINISH: REMOVE DUST, GRIT, AND FOREIGN MATTER. SEAL KNOTS, PITCH STREAKS, AND SAPPY SECTIONS. FILL NAIL HOLES WITH TINTED EXTERIOR CALKING COMPOUND AFTER PRIME COAT HAS BEEN APPLIED. BACK PRIME CONCEALED SURFACES BEFORE INSTALLATION.

**3.03 APPLICATION**
- A. REMOVE UNFINISHED LOUVERS, GRILLES, COVERS, AND ACCESS PANELS ON MECHANICAL AND ELECTRICAL COMPONENTS AND PAINT SEPARATELY.
- B. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL".
- C. DO NOT APPLY FINISHES TO SURFACES THAT ARE NOT DRY. ALLOW APPLIED COATS TO DRY BEFORE NEXT COAT IS APPLIED.
- D. APPLY EACH COAT TO UNIFORM APPEARANCE.
- E. SAND WOOD AND METAL SURFACES LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH.
- F. VACUUM CLEAN SURFACES OF LOOSE PARTICLES. USE TACK CLOTH TO REMOVE DUST AND PARTICLES JUST PRIOR TO APPLYING NEXT COAT.
- G. REINSTALL ELECTRICAL COVER PLATES, HARDWARE, LIGHT FIXTURE TRIM, ESCUTCHEONS, AND FITTINGS REMOVED P

# Occupancy Schedule (Net SF)

| Building Occupancy Groups and Rooms | | | | Occupant Load Calculations | | | | |
|---|---|---|---|---|---|---|---|---|
| Room Number | Room Name | Mark | Function of Space | Area | Occ. Load Factor | Calc. Occ. Load | Fixed Seats | Total Occ. Load |
| Level 1 | | | | | | | | |
| Building Fire Area #1 | | | | | | | | |
| 101 | VESTIBULE | M | Mercantile | 420 SF | 60 SF | 7 | | 7 |
| 102 | SALES | M | Mercantile | 16,487 SF | 60 SF | 275 | | 275 |
| 103 | PW | M | Mercantile | 125 SF | 60 SF | 3 | | 3 |
| 104 | STOCK | MS | Mercantile - Storage, stock, shipping | 3,663 SF | 300 SF | 13 | | 13 |
| 105 | OFFICE | M | Mercantile | 179 SF | 60 SF | 3 | | 3 |
| 106 | MANAGER | M | Mercantile | 102 SF | 60 SF | 2 | | 2 |
| 107 | FEED | MS | Mercantile - Storage, stock, shipping | 2,008 SF | 300 SF | 7 | | 7 |
| 108 | WOMENS RR | N/A | Unoccupied Space | 195 SF | 0 SF | | | |
| 109 | MENS RR | N/A | Unoccupied Space | 195 SF | 0 SF | | | |
| 110 | LOUNGE | M | Mercantile | 327 SF | 60 SF | 6 | | 6 |
| 111 | IOD | M | Mercantile | 5,355 SF | 60 SF | 90 | | 90 |
| 112 | OFFICE | M | Mercantile | 99 SF | 60 SF | 2 | | 2 |
| 113 | HALL | N/A | Unoccupied Space | 292 SF | 0 SF | | | |
| 13 | | | | 29,445 SF | | 408 | 0 | 408 |
| Grand total: 13 | | | | 29,445 SF | | 408 | 0 | 408 |

# Means of Egress

Doors:
- The clear width of an egress door opening shall not be less than 32" and not more than 48". The clear height of an egress door opening shall not be less than 80".
- Doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons or a group h occupancy.

Stairways:
- The clear width of a stairway shall not be less than 44". The minimum headroom shall not be less than 80" as measured from the nosing.

## Egress Capacity Factors

*EGRESS CAPACITY FACTORS ARE PER: IBC 1005*

● Automatic Sprinkler System
● Emergency Voice / Alarm Communications

Minimum Required Egress Width:
Stairways: 0.2
Other Egress Components: 0.15

## Minimum Number of Exits

| OCCUPANT LOAD | MIN NUMBER OF EXITS PER STORY |
|---|---|
| 1-500 | 2 |
| 501-1000 | 3 |
| > 1000 | 4 |

## Spaces with one Exit

| OCCUPANCY | MAXIMUM OCCUPANT LOAD |
|---|---|
| A, B, E, F, M, U | 49 |
| H-1, H-2, H-3 | 3 |
| H-4, H-5, I, R | 10 |
| S | 29 |

# Building Use and Occupancy Classification

Building Use and Occupancy Classification:
- ○ Group A-1 (Assembly)
- ○ Group A-2 (Assembly)
- ○ Group A-3 (Assembly)
- ○ Group A-4 (Assembly)
- ○ Group A-5 (Assembly)
- ○ Group B (Business)
- ○ Group E (Educational)
- ○ Group E (Educational - Day Care Facilities)
- ○ Group F-1 (Moderate-Hazard Factory Industrial)
- ○ Group F-2 (Low-Hazard Factory Industrial)
- ○ Group H-1 (High-Hazard)
- ○ Group H-2 (High-Hazard)
- ○ Group H-3 (High-Hazard)
- ○ Group H-4 (High-Hazard)
- ○ Group H-5 (High-Hazard)
- ○ Group I-1 (Institutional)
- ○ Group I-2 (Institutional)
- ○ Group I-3 (Institutional)
- ○ Group I-4 (Institutional- Day Care Facilities)
- ● Group M (Mercantile)
- ○ Group R-1 (Residential)
- ○ Group R-2 (Residential)
- ○ Group R-3 (Residential)
- ○ Group R-4 (Residential)
- ○ Group S-1 (Moderate-Hazard Storage)
- ○ Group S-2 (Low-Hazard Storage)
- ○ Group U (Utility and Miscellaneous)

Mixed Use / Occupancy:
- ○ Accessory Occupancies
- ○ Nonseperated Occupancies
- ○ Seperated Occupancies
- ○ Incidental uses

Special Requirements:
- ○ High-Rise Building
- ○ Atrium
- ○ Hazardous Materials
- ○ Mezzanine
- ○ Equipment Platform

# Fire Protection

*FIRE RESISTANCE RATING REQUIREMENTS PER IBC TABLE 601*

| | |
|---|---|
| TYPE OF CONSTRUCTION: | IIB |
| PRIMARY STRUCT FRAME: | 0 HOURS |
| BEARING WALLS (EXT): | 0 HOURS |
| BEARING WALLS (INT): | 0 HOURS |
| NONBEARING WALLS AND PARTITIONS (EXT): | PER IBC TABLE 602 |
| NONBEARING WALLS AND PARTITIONS (INT): | 0 HOURS |
| FLOOR CONSTRUCTION: | 0 HOURS |
| ROOF CONSTRUCTION: | 0 HOURS |

IBC TABLE 602: EXTERIOR WALL FIRE RATING

| SEPERATION DISTANCE | CONS TYPE | OCCUPANCY GROUP | | |
|---|---|---|---|---|
| | | H | F-1, M, S-1 | A, B, E, F-2, I, R, S-2, U |
| X < 5 | ALL | 3 | 2 | 1 |
| 5 ≤ X ≤ 10 | IA | 3 | 2 | 1 |
| | OTHERS | 2 | 1 | 1 |
| 10 ≤ X ≤ 30 | IA, IB | 2 | 1 | 1 |
| | IIB, VB | 1 | 0 | 0 |
| | OTHERS | 1 | 1 | 1 |
| X ≥ 30 | ALL | 0 | 0 | 0 |

## Fire Protection Systems

● Automatic Sprinkler System in accordance with NFPA 13
○ Fire / Smoke Alarm System in accordance with NFPA 72
○ Portable Fire Extinguishers in accordance with NFPA 10
○ Standpipe System in accordance with NFPA 14

# Exit Access Travel Distance

| Name | Maximum Travel Distance w/ Sprinkler System | | |
|---|---|---|---|
| | Dead End Corridor | Common Path of Egress Travel | Exit Access Travel Distance |
| Level 1 | | | |
| Building Area #1 | | | |
| Group M (Mercantile) | 50' | 75' | 250' |

# Fire Extinguisher Schedule

| Type Mark | Description | Manufacturer | Model and UL Rating | Fire Class |
|---|---|---|---|---|
| FE | Wall Mounted Fire Extinguisher, 10 lbs capacity | JL Industries, Inc. or Equal | Cosmic 10E \| 4A-80B:C | |

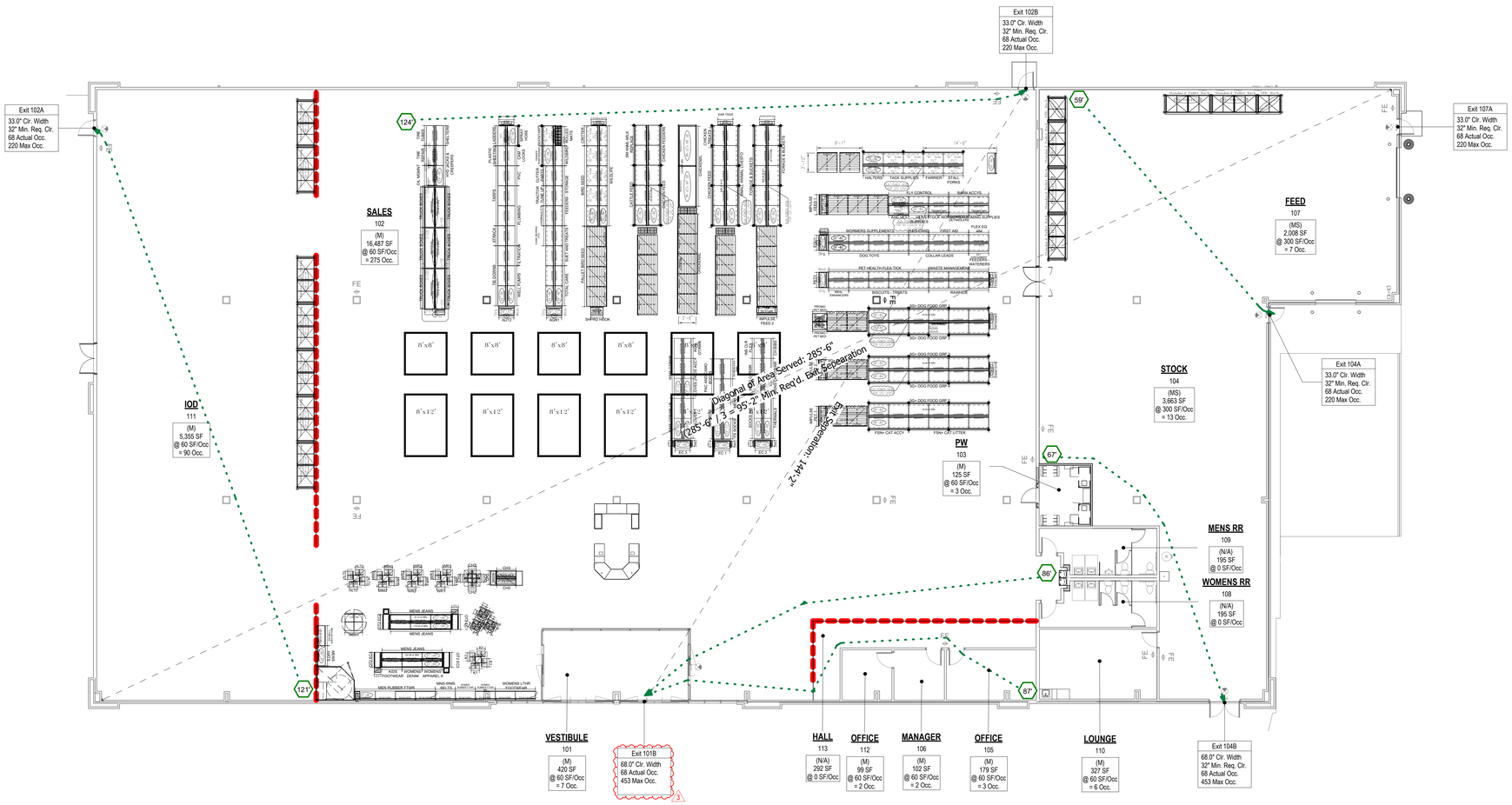
# Egress Door Calculations

| Mark | Provided clear width | Means of Egress Capacity Factor | Maximum Load | Actual Occ. Load | Meets Code |
|---|---|---|---|---|---|
| Level 1 | | | | | |
| 101B | 68" | 0.15 | 453 | 68 | Complies |
| 102A | 33" | 0.15 | 220 | 68 | Complies |
| 102B | 33" | 0.15 | 220 | 68 | Complies |
| 104A | 33" | 0.15 | 220 | 68 | Complies |
| 104B | 68" | 0.15 | 453 | 68 | Complies |
| 107A | 33" | 0.15 | 220 | 68 | Complies |
| 6 | 268" | | 1786 | 408 | |
| Grand total: 6 | 268" | | 1786 | 408 | |

# Life Safety Plan Legend

Diagonal of Area Served: 45'-6"
(45'-6" / 3 = 15'-2" Min. Req'd. Exit Sepearation

- Wall mounted / Wall mounted perpendicular / Ceiling mounted — Exit Signs
- Egress pathway width and direction of travel
- 250' — Maximum travel distance
- 250' — Common path of travel distance
- FE — FE - Wall mounted fire extinguisher
- FEC (32") — Fire extinguisher cabinet
- 1 Hour rated partition, barrier, and/or wall
- 2 Hour rated partition, barrier, and/or wall
- 3 Hour rated partition, barrier, and/or wall
- Exit ### — Exit / Exit-access component
  - ##.#" Clr. Width — Provided clear exit width (inches)
  - ##" Min. Req. Clr. — Minimum required clear exit width (inches)
  - ### Actual Occ. — Actual occupant load using exit
  - ### Max Occ. — Maximum allowed occupant capacity
- Accessible turning radius (60")
- Accessible seating location/clear floor space (30"x42")




2 **First Floor Life Safety Plan**
3/32" = 1'-0"

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

**Project Manager:** Kyle Wojciechowski
Contact: 214-766-3410

**Architect:** Contact: Dan Marta 469-455-1532


TRACTOR SUPPLY Co

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| 3 | Revision 5 | 2025 12 22 |
| 2 | Revision 3 | 2025 xx xx |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

LIFE SAFETY PLAN

A0.40

# PARKING LOT PAINT SPECIFICATION

**SITE STRIPING NOTES:**

1. STRIPING ON CONCRETE TO BE YELLOW.
2. STRIPING ON ASPHALT TO BE WHITE EXCEPT FOR BLUE ADA SYMBOLS AND STRIPING
3. USE HANDICAP BLUE PAINT FOR ADA SYMBOLS AND STRIPING WHERE REQUIRED.

**PARKING LOT PAINT SPECIFICATIONS - 15 MIL APPLICATION (0.015 INCH THICKNESS):**

1. NEW PAVEMENT SURFACE TO CURE FOR A PERIOD OF NOT LESS THAN 14 DAYS BEFORE APPLICATION OF MARKING MATERIALS.
2. REMOVE ALL DIRT, GRAVEL, DEBRIS, VEGETATION, OR OTHER MISCELLANEOUS OBJECTS FROM THE SURFACE WITH A BROOM TRUCK OR EQUIVALENT RIGOROUS METHOD. PROVIDE A CLEAN, DUST-FREE AND COMPLETELY DRY SURFACE FOR PAINT APPLICATION. DO NOT APPLY PAINT OVER EXISTING TAPE MARKINGS.
3. CONFIRM AND RECORD PROPER AIR AND SURFACE TEMPERATURES OF 55° AND RISING AND LESS THAN 95°. IF THE SURFACE TEMPERATURE IS NOT WITHIN THE TEMPERATURE RANGE OR IF THE PAINT APPLICATION IS DONE UNDER ADVERSE CONDITIONS (AS DETERMINED BY THE CONSTRUCTION PROJECT MANAGER) SUCH AS ABOVE 75% HUMIDITY, NIGHT STRIPING, ETC. IN ORDER TO MEET TSC OPENING SCHEDULE, CONTRACTOR TO RE-SCHEDULE AND COMPLETE SURFACE STRIPING UNDER PROPER CONDITIONS A MINIMUM OF 30 DAYS PRIOR TO THE EXPIRATION OF THE (1) ONE YEAR CONSTRUCTION WARRANTY.
4. PROVIDE A 15 MIL THICK 4" WIDE CONTINUOUS STRIPE WHERE AND IN THE COLOR INDICATED. MINIMUM OF (2) TWO COATS.
5. PROVIDE PRIMER AND SEALER TO BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS ON ALL CONCRETE SURFACES AND ON ASPHALT SURFACES THAT ARE MORE THAN TWO YEARS OLD, OXIDIZED AND/OR HAVE AGGREGATE EXPOSED.

# PARKING SCHEDULE

| COUNT | TYPE |
|---|---|
| 62 | 9' x 18' - 90 deg |
| 8 | 9' x 18' - 90 deg ADA |
| Grand total: 70 | |

# SITE PLAN KEYNOTES

| | |
|---|---|
| 04 | EXISTING POLE LIGHTS. REPLACE LAMP OUTAGES AT TIME OF REMODEL FOR FULLY OPERATIONAL LIGHTS. |
| 08 | NEW F.O.D. ROLLING GATE. GATES ARE TO REMAIN UNLOCKED AND OPEN WHEN THE BUILDING IS OCCUPIED. INSTALL SIGNS IN 1" LETTERING STATING "THIS GATE TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED" ON EACH GATE LEAF (EGRESS SIDE). SEE DOOR SCHEDULE FOR HARDWARE. |
| 10 | EXISTING CONCRETE PARKING SURFACE. PRESSURE WASH AND RESTRIPE. |
| 22 | EXISTING CART CORRAL. VERIFY WITH TSC PM IF IT IS TO REMAIN IN PARKING LOT. |
| 36 | NEW 6" DIA. CONCRETE FILLED PIPE BOLLARD WITH MCCUE COVER. REF: 01/A004 FOR DETAILS. |
| 62 | EXISTING DUMPSTER ENCLOSURE TO REMAIN. |
| 63 | NEW ASPHALT RAMP |
| 69 | EX. VAN ACCESSIBLE |
| 153 | NEW ASPHALT PAVING, MATCH CONSTRUCTION OF ADJACENT PAVING |

# SITE PLAN LEGEND

- PROPERTY LINE
- PROPERTY SETBACK LINE
- SCOPE OF WORK
- AREA NOT IN CONTRACT (N.I.C.)
- FRENCH DRAIN /GRAVEL AREA
- EXISTING LANDSCAPE
- EXISTING ASPHALT PAVEMENT
- NEW ASPHALT PAVEMENT
- EXISTING SIDEWALK
- EXISTING CONCRETE PAVEMENT
- NEW CONCRETE PAVEMENT
- ACCESSIBLE PATH OF TRAVEL

EX.
EXISTING ACCESSIBLE PARKING SPACE

1. N.I.C.
2. RESTRIPE / REPAINT PER ADA PARKING SPACE REQUIREMENTS. SEE PAINT SPECIFICATION FOR STRIPING DETAILS.
3. INSTALL ADA SIGNAGE AND POST PER AHJ REQUIREMENTS. SEE PARKING LOT VERTICAL SIGNAGE DETAIL.

NEW ACCESSIBLE PARKING SPACE. STRIPE / PAINT PER ADA PARKING SPACE REQUIREMENTS. SEE PAINT SPECIFICATION FOR STRIPING DETAILS.

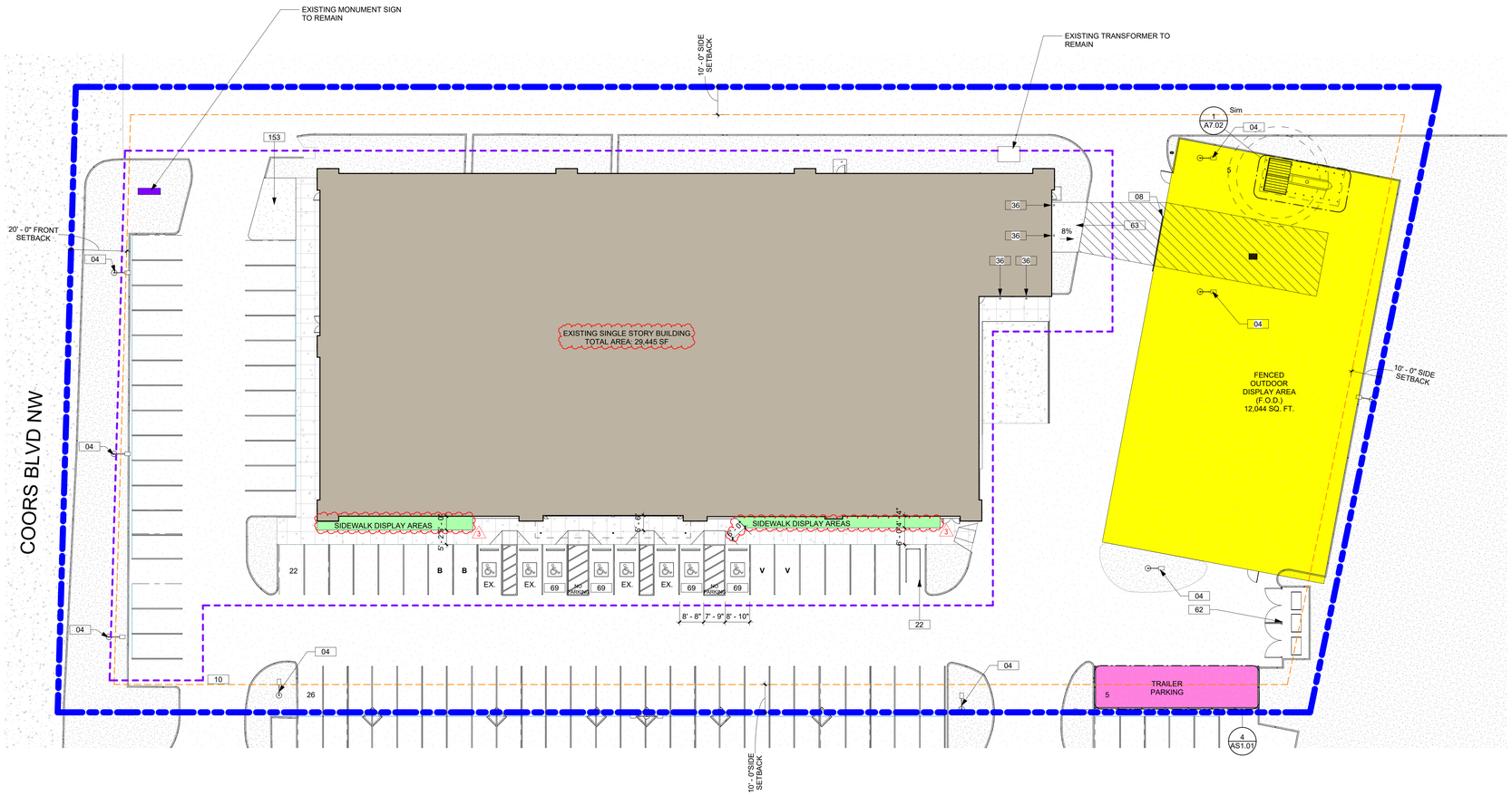
INSTALL ADA SIGNAGE AND POST PER AHJ REQUIREMENTS. SEE PARKING LOT VERTICAL SIGNAGE DETAIL.

V
VETERAN AND MILITARY PARKING SPACE. INSTALL VERTICAL POST AND PARKING SIGNAGE. SEE PARKING LOT VERTICAL SIGNAGE DETAIL.

B
"BOPIS" (BUY ONLINE PICKUP IN STORE) PARKING SPACE. INSTALL VERTICAL POST AND PARKING SIGNAGE. SEE PARKING LOT VERTICAL SIGNAGE DETAIL.

EXISTING SITE LIGHTING, LIGHT POLE AND BASE

KEYNOTE TAG




1 **Architectural Site Plan**
1" = 20'-0"

0 20 40 60 80

TRUE NORTH
PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532


TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

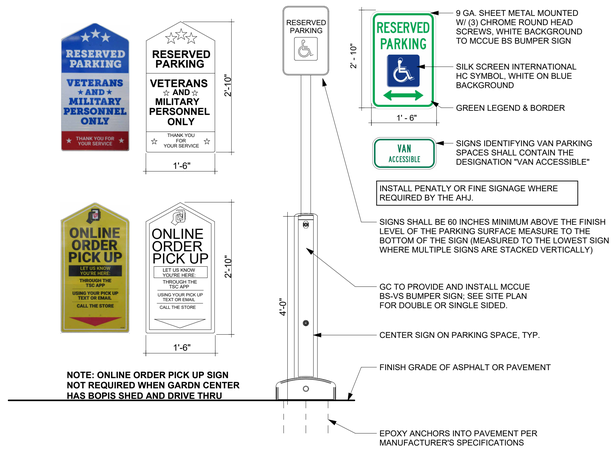
| NO | DESCRIPTION | DATE |
|---|---|---|
| 3 | Revision 5 | 2025 12 22 |
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

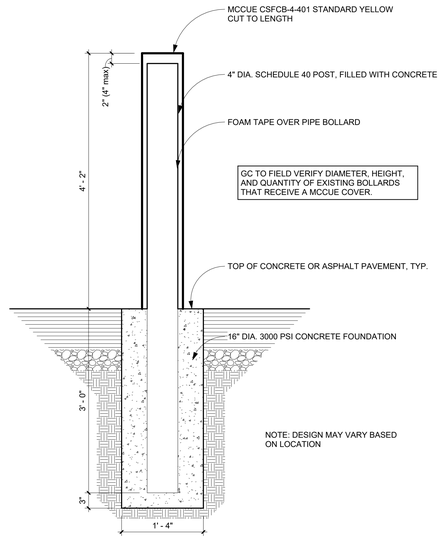
COPYRIGHT PARKWAY C&A, LP ©2025

ARCHITECTURAL SITE PLAN

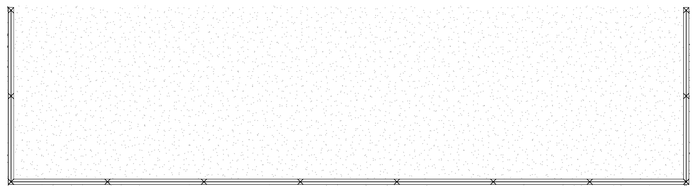
AS1.00



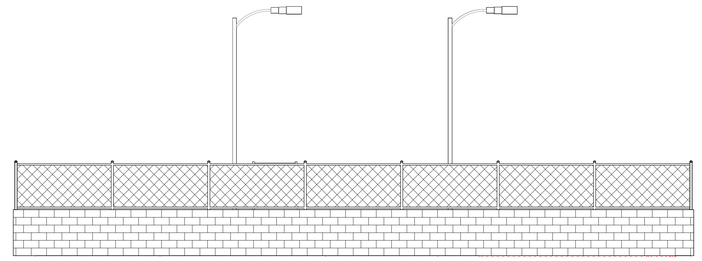

**PARKING LOT VERTICAL SIGNAGE**
1 — 12" = 1'-0"



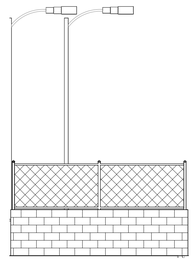

**TYPICAL PIPE BOLLARD**
2 — 1" = 1'-0"



**SCREEN WITH KNEE WALL - PLAN**
4 — 3/16" = 1'-0"



**SCREEN WITH KNEE WALL - FRONT ELEVATION**
5 — 3/16" = 1'-0"



**SCREEN WITH KNEE WALL - SIDE ELEVATION**
6 — 3/16" = 1'-0"

B

CONSTRUCTION • ARCHITECTURE

PKWY
PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979
Project Manager: Contact: Kyle Wojciechowski 214-766-3410
Architect: Contact: Dan Marta 469-455-1532

TRACTOR SUPPLY Co. TSC

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

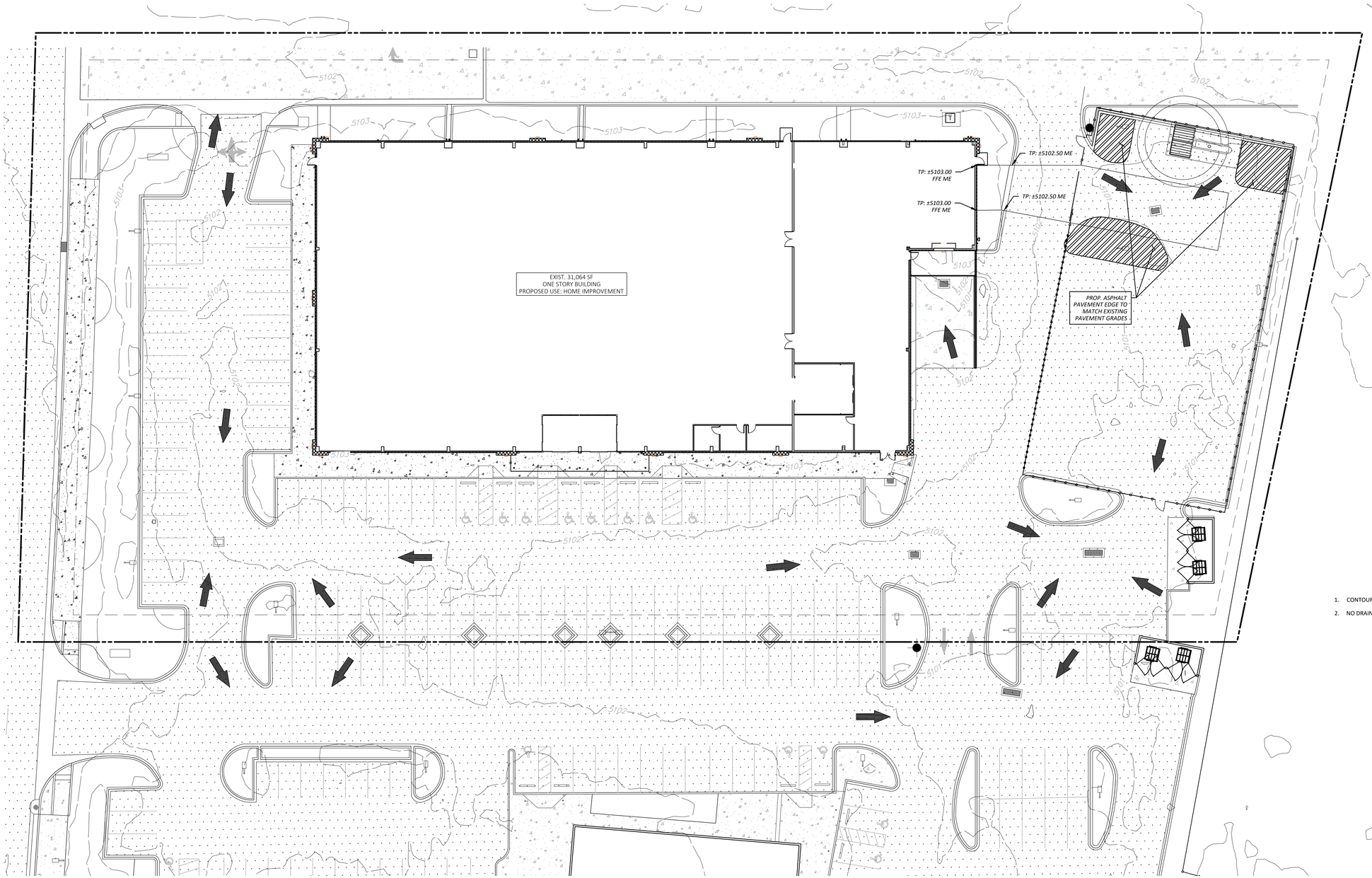
| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

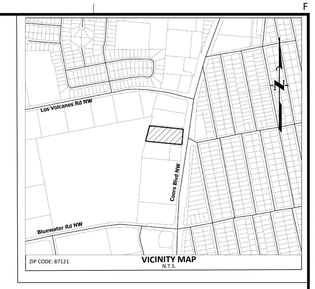
Drawn by: MRH
Checked by: DM
Project Number: 94-250037

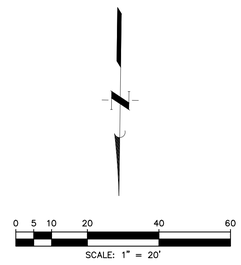
COPYRIGHT PARKWAY C&A, LP ©2025

SITE PLAN DETAILS

AS1.01




## LEGEND

PROPERTY LINE

EXIST. & PROP. DRAINAGE DIRECTION

## NOTES

1. CONTOURS DISPLAYED ARE REFERENCED FROM GIS LIDAR DATA.
2. NO DRAINAGE PATTERNS ARE MODIFIED BETWEEN EXISTING AND PROPOSED CONDITIONS.

**CAUTION: OVERHEAD ELECTRIC**

CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION, CONSTRUCTION AND ALL ACTIVITIES ON SITE AND STAY AWAY FROM ALL OVERHEAD POWER. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS DEALING WITH CLEARANCES AND CONSTRUCTION ACTIVITIES.

CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
www.texas811.org
Texas811 or 1-800-545-6005

**REVISIONS**

| No. | Date | App. |
|---|---|---|

QUIDDITY
Engineering & Professional Engineers and Land Surveyors Reg. No. F-23290
4500 Mercantile Plaza Drive, Suite 228 • Fort Worth, Texas 76137 • 682.268.2200

SCALE: AS SHOWN
DATE: 09/15/2025
JOB NO.: 29280-0012-01
DESIGNED BY: OT
CHECKED BY: ACH
DRAWN BY: OT

AARON C. HAWKINS
NEW MEXICO
30054
PROFESSIONAL ENGINEER

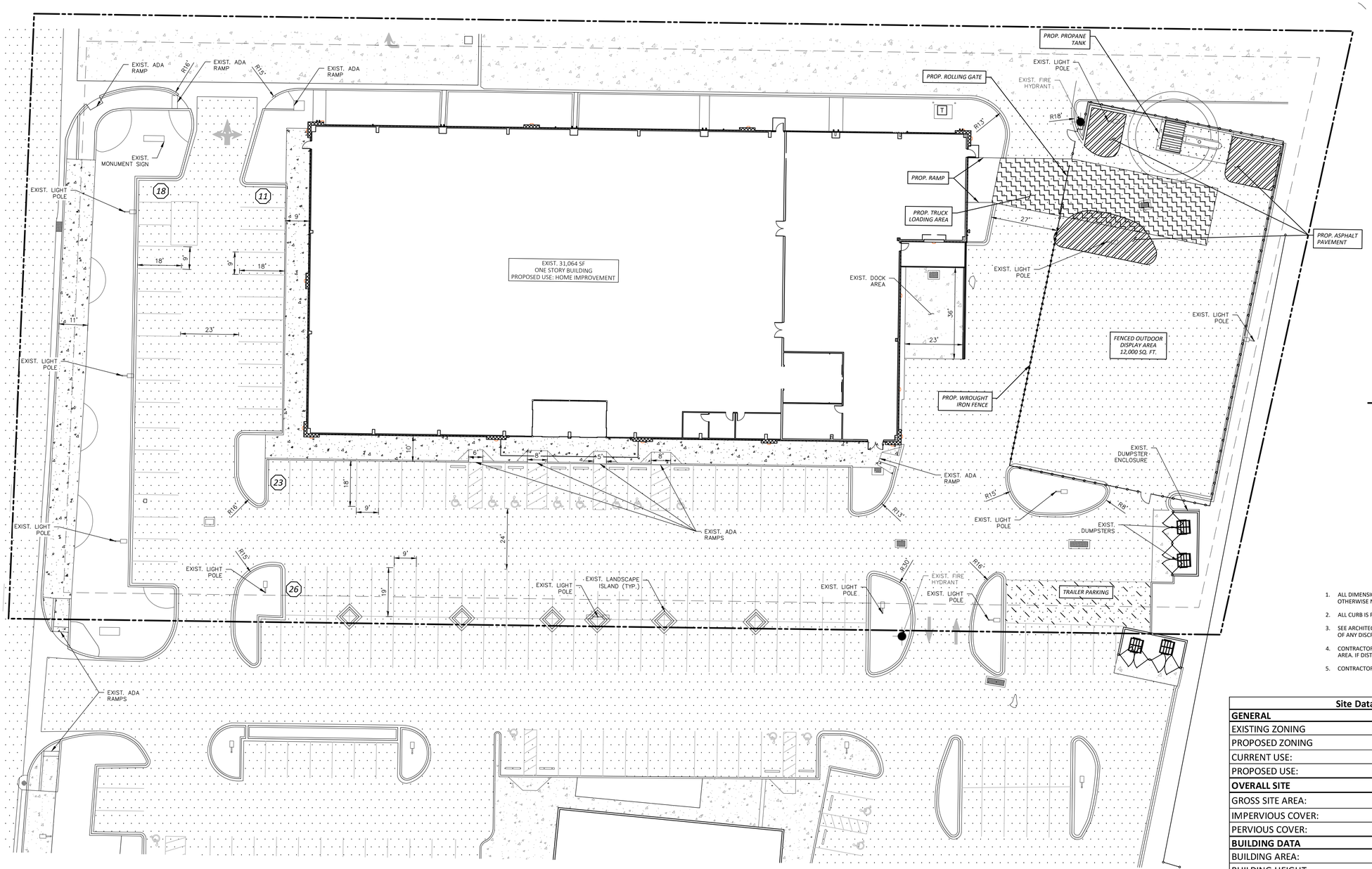
Aaron Hawkins 09/15/2025

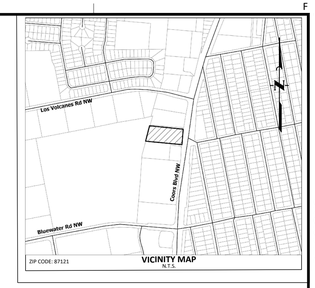
TRACTOR SUPPLY - ALBUQUERQUE - COORS BLVD NW AND LOS VOLCANES RD NW
465 COORS BLVD NW, ALBUQUERQUE, NM 87121

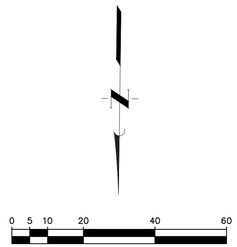
# GRADING AND DRAINAGE PLAN

SHEET NO. 1
OF 1

© 2022 Quiddity




## LEGEND

- PROPERTY LINE
- 5 — PARKING COUNT
- EXIST. CONCRETE PAVEMENT
- EXIST. SIDEWALK PAVEMENT
- EXIST. ASPHALT PAVEMENT
- PROP. ASPHALT PAVEMENT
- PROP. TRUCK LOADING AREA
- PROP. TRAILER PARKING AREA

## NOTES

1. ALL DIMENSIONS ARE SHOWN PERPENDICULAR AND TO THE FRONT OF THE CURB UNLESS OTHERWISE NOTED.
2. ALL CURB IS PERMANENT UNLESS NOTED OTHERWISE.
3. SEE ARCHITECT PLANS FOR EXACT BUILDING DIMENSIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR TO USE CARE NOT TO DISTURB EXISTING LANDSCAPING OUTSIDE DISTURBED AREA. IF DISTURBED, CONTRACTOR TO RESTORE TO ORIGINAL CONDITIONS OR BETTER.
5. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES.

| Site Data Summary Table | |
|---|---|
| **GENERAL** | |
| EXISTING ZONING | RETAIL STORE (RS) |
| PROPOSED ZONING | RETAIL STORE (RS) |
| CURRENT USE: | RETAIL STORE |
| PROPOSED USE: | HOME IMPROVEMENT |
| **OVERALL SITE** | |
| GROSS SITE AREA: | 2.428 ACRES (105,760 SQ. FT.) |
| IMPERVIOUS COVER: | 12,056 SQ. FT. |
| PERVIOUS COVER: | 93,704 SQ. FT. |
| **BUILDING DATA** | |
| BUILDING AREA: | 31,064 SQ. FT. |
| BUILDING HEIGHT: | 25 FEET |
| **PARKING** | |
| REQUIRED | |
| STANDARD SPACES (2 SPACES/1,000 SF) | 63 SPACES |
| ACCESSIBLE SPACES | 3 SPACES |
| PROVIDED | |
| STANDARD SPACES | 78 SPACES |
| ACCESSIBLE SPACES | 8 SPACES |

**CAUTION: OVERHEAD ELECTRIC**

CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION, CONSTRUCTION AND ALL ACTIVITIES ON SITE AND STAY AWAY FROM ALL OVERHEAD POWER. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS DEALING WITH CLEARANCES AND CONSTRUCTION ACTIVITIES.

CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
www.texas811.org
Texas811 or 1-800-545-6005

| No. | Date | REVISIONS | App. |
|---|---|---|---|
| | | | |

QUIDDITY
Engineering & Professional Engineers and Land Surveyors Reg. No. F-23290
4500 Mercantile Plaza Drive, Suite 228 • Fort Worth, Texas 76137 • 682.268.2200

SCALE: AS SHOWN | DESIGNED BY: OT
DATE: 09/15/2025 | CHECKED BY: ACH
JOB NO.: 29280-0012-01 | DRAWN BY: OT

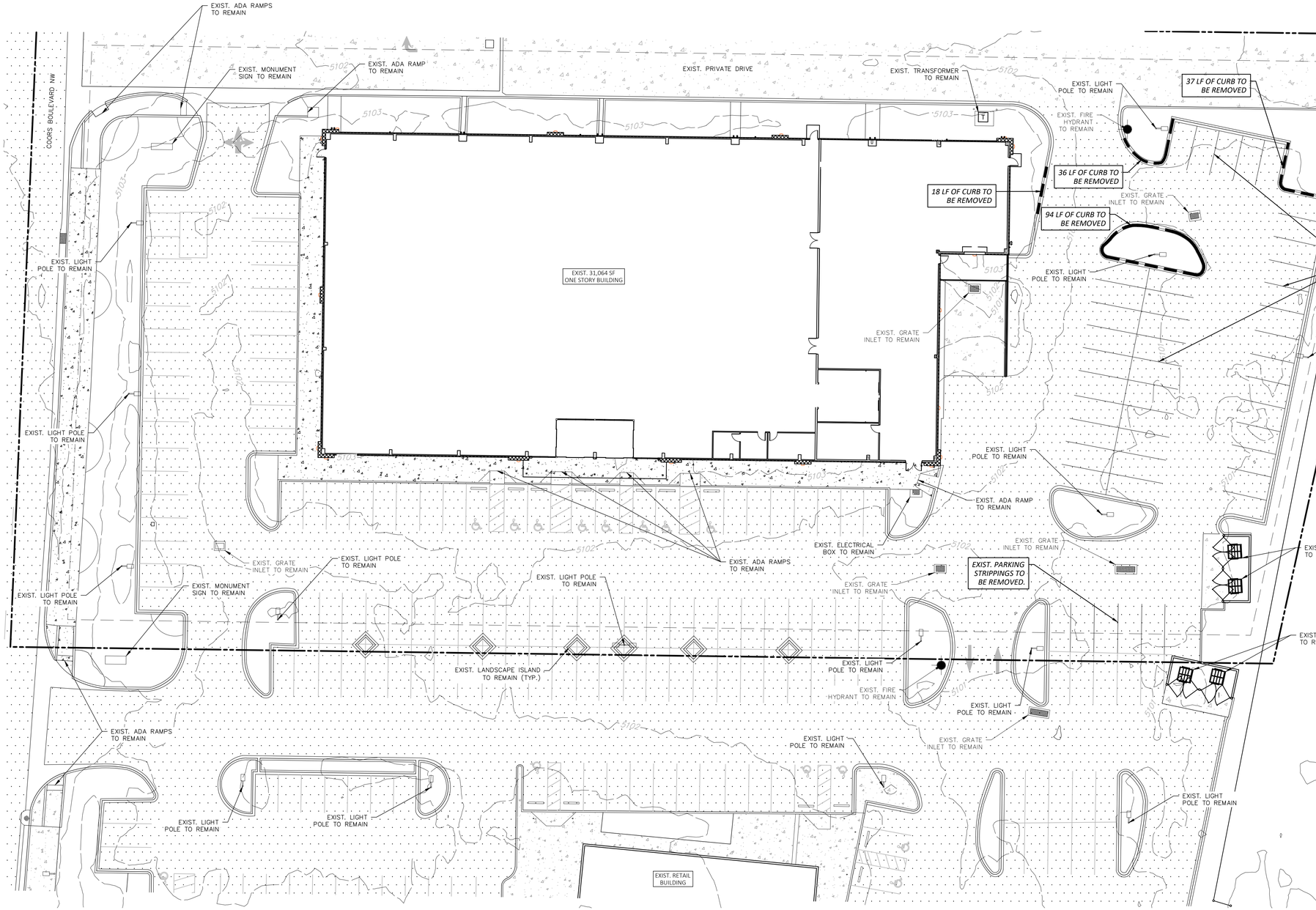
AARON C. HAWKINS
NEW MEXICO
30054
PROFESSIONAL ENGINEER
09/15/2025

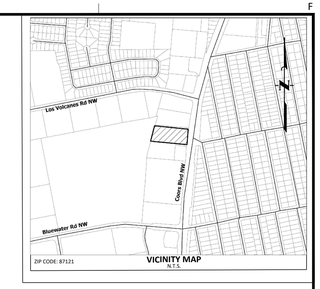
TRACTOR SUPPLY - ALBUQUERQUE - COORS BLVD NW AND LOS VOLCANES RD NW
465 COORS BLVD NW, ALBUQUERQUE, NM 87121

# SITE PLAN

SHEET NO. 1 OF 1

© 2022 Quiddity




SCALE: 1" = 20'

## LEGEND

- PROPERTY LINE
- EXIST. FIRE HYDRANT
- EXIST. STORM SEWER CURB INLET AND MANHOLE
- EXIST. CONCRETE PAVEMENT
- EXIST. SIDEWALK PAVEMENT
- EXIST. ASPHALT PAVEMENT
- EXIST. CURB TO BE REMOVED

## DEMOLITION NOTES

1. IN ORDER TO MAINTAIN SERVICES, THE EXISTING SANITARY SEWER AND WATERLINE ARE NOT TO BE REMOVED OR DISTURBED.
2. POST DEMOLITION, GRADING SHALL PROVIDE POSITIVE DRAINAGE AND R.O.W. AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
3. ALL EXISTING TREES SHALL NOT BE DISTURBED WITHOUT OWNER APPROVAL.
4. THE APPROXIMATE LOCATION OF EXISTING UTILITIES ARE GIVEN FOR REFERENCE ONLY. BEFORE COMMENCING THE WORK ON THIS CONTRACT, THE CONTRACTOR SHALL VERIFY BY FIELD INVESTIGATION THE ACTUAL LOCATIONS OF ALL UTILITY FACILITIES WITHIN AND ADJACENT TO THE LIMITS OF THE WORK THAT MAY BE AFFECTED BY THE WORK. CONFLICTS WHICH RESULT DUE TO NEGLIGENCE BY THE CONTRACTOR TO LOCATE, HORIZONTALLY AND VERTICALLY, EXISTING UTILITIES WHICH ARE SHOWN ON THE CONSTRUCTION DRAWINGS, OR WHICH THE CONTRACTOR HAS BEEN GIVEN NOTICE OR HAS KNOWLEDGE OF, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF REMEDIAL WORK, REMOVAL OF PORTIONS OF THE WORK OR EXTENSIVE DESIGN CHANGES OCCASIONED BY THE FAILURE OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AS DESCRIBED ABOVE SHALL BE BORNE BY THE CONTRACTOR.
5. CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND TEXAS STATE LAW.
6. WHERE EXISTING PAVEMENT IS TO BE PARTIALLY REMOVED, SAW-CUT PAVEMENT AT FULL DEPTH TO PROVIDE SMOOTH JOINT WITH PROPOSED PAVEMENT. CONTRACTOR BID TO INCLUDE SAW-CUT AND REMOVAL OF CONCRETE PAVEMENT REGARDLESS OF PAVEMENT THICKNESS.
7. ALL DEMOLISHED MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE HAULED AND LEGALLY DISPOSED OF OFF-SITE.
8. NO ATTEMPT IS MADE TO STIPULATE EVERY REQUIRED ITEM OF REMOVAL AND DEMOLITION EITHER IN DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR MUST VISIT THE SITE AND STUDY EXISTING PHYSICAL CONDITIONS, REVIEW THE DRAWINGS, AND REACH THEIR OWN CONCLUSION ON WORK NECESSARY TO ACCOMPLISH INTENDED RESULTS DESCRIBED BY THE PROJECT DOCUMENTS. IF ANY DISCREPANCY IN FIELD CONDITIONS AND PROJECT DOCUMENTS PLEASE CONTACT ENGINEER.

**CAUTION: OVERHEAD ELECTRIC**

CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION, CONSTRUCTION AND ALL ACTIVITIES ON SITE AND STAY AWAY FROM ALL OVERHEAD POWER. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS DEALING WITH CLEARANCES AND CONSTRUCTION ACTIVITIES.

CONTRACTOR TO VERIFY ELEVATION AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY NEW CONSTRUCTION

TEXAS811 NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
www.texas811.org
Texas811 or 1-800-545-6005

| No. | Date | REVISIONS | App. |
|---|---|---|---|

QUIDDITY
Engineering & Professional Engineers and Land Surveyors Reg. No. F-23290
4500 Mercantile Plaza Drive, Suite 228 • Fort Worth, Texas 76137 • 682.268.2200

SCALE: AS SHOWN | DESIGNED BY: OT
DATE: 09/15/2025 | CHECKED BY: ACH
JOB NO.: 29280-0012-01 | DRAWN BY: OT

AARON C. HAWKINS NEW MEXICO 30054 PROFESSIONAL ENGINEER
09/15/2025

TRACTOR SUPPLY - ALBUQUERQUE - COORS BLVD NW AND LOS VOLCANES RD NW
465 COORS BLVD NW, ALBUQUERQUE, NM 87121

# EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NO. 1 OF 1

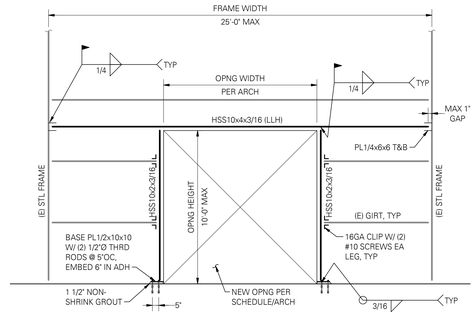
© 2022 Quiddity

K:\29280\29280-0012-01 Tractor Supply - Albuquerque\2 Design Phase\CAD\Plans\Site\29280-0012 EXIST COND AND DEMO PLAN.dwg mtuvden: September 17, 2025

**FOR PERMIT**
The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the authority having jurisdiction and DCI Engineers.

DCI ENGINEERS®
707 W 2nd Avenue
Spokane, Washington 99201
P: (509) 455-4448 www.dci-engineers.com
CIVIL / STRUCTURAL

© Copyright 12.2025 D'Amato Conversano Inc. All Rights Reserved
This drawing and the design shown are the property of D'Amato Conversano Inc. in whole or in part, without written permission from D'Amato Conversano Inc.
D'Amato Conversano Inc. disclaims any responsibility for its unauthorized use.




NOTE:
SIMILAR AT STEEL STUDS VS STEEL GIRTS

## 1 METAL BUILDING NEW EXTERIOR WALL OPENING

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

CONSTRUCTION ◆ ARCHITECTURE

PKWY
PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
Project Manager: Contact: Kyle Wojciechowski 214-766-3410
Architect: Contact: Dan Marta 469-455-1532

TSC TRACTOR SUPPLY Co.

# TSC Store # Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JEW ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

CHRIS SCHLEGEL
NEW MEXICO
23402
PROFESSIONAL ENGINEER

Architect: Chris

| NO | DESCRIPTION | DATE |
|---|---|---|

Drawn by: JDJ
Checked by: CTC
Project Number: 25041-0141

COPYRIGHT PARKWAY C&A, LP © 2025

FRAMING SECTIONS AND DETAILS

S211

9/8/2025 9:05:43 PM Autodesk Docs://Tractor Supply - Albuquerque, NM/25041-01-41_Struct_R24 Albuquerque NM_jamesRKWN.rvt

## Demolition Keynotes

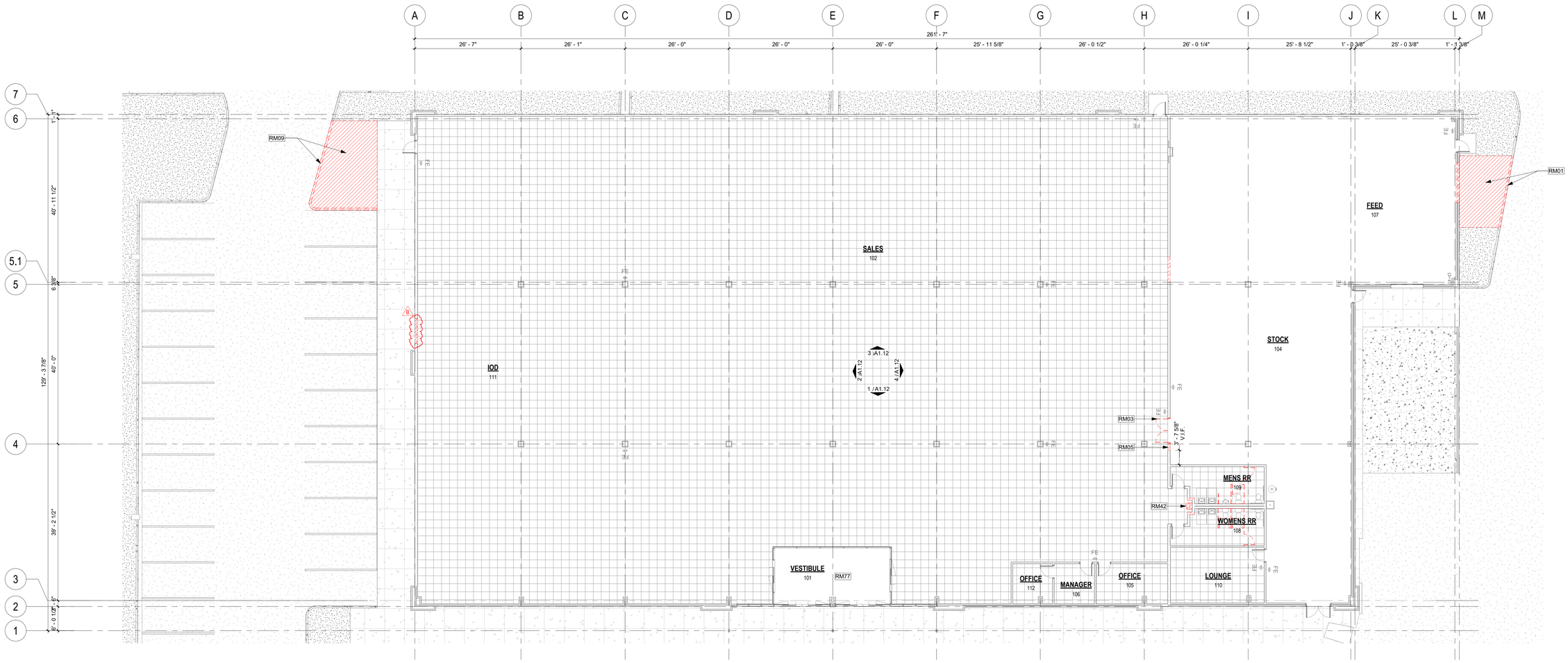
| | |
|---|---|
| RM01 | Remove existing pavement and curb. Prep for new forklift ramp |
| RM03 | Remove Door, Door Frame, Hardware and all associated parts |
| RM05 | Remove portion of existing wall and prep for new door. Patch and Repair damaged flooring. |
| RM09 | Remove landscape island and curb, prep for new asphalt paving |
| RM42 | REMOVE WATER FOUNTAIN. |
| RM77 | Remove carpet. Grind and polish concrete |

## DEMOLITION PLAN LEGEND

- ROOM NAME / 150 SF — ROOM NUMBER / FLR.# BASE # ROOM SIZE / WALL-# CLG-#
- ? — PLAN KEYNOTE
- DEMOLITION
- EXISTING TO REMAIN
- 1 / A101 — SIM — INDICATES SIMILAR
- WALL SECTION
- 1 / A101 — DETAIL NUMBER / SHEET NUMBER
- ENLARGED PLAN CALLOUT
- 0 — COLUMN GRID
- SPOT ELEVATION
- 1 / A### — EXTERIOR ELEVATION REFERENCE
- 1 /A101 — INTERIOR ELEVATION REFERENCE
- ACCESSIBLE SEATING LOCATION / CLEAR FLOOR SPACE (30" x 42")
- ACCESSIBLE TURNING RADIUS (60")

## Demolition General Notes

| | |
|---|---|
| 1 | Prior to the submission of bids, the contractor shall visit the job site to review scope o work. Contractor shall be responsible for familiarizing himself with all contract documents, field conditions and dimensions and confirming that the work may be accomplished as shown prior to proceeding with construction. |
| 2 | Contractor shall determine the quantities of demolition work required by personal observation at the building and on the site prior to bidding. |
| 3 | All dimensions shown on the drawings shall be field verified by the contractor. Any error or inconsistency shall be reported to the architect for instructions prior to start of construction. |
| 4 | Contractor is to coordinate with owner's representative on the removal, replacement and/or reuse of any existing equipment and fixtures, before demolition. Availability for demolition must be confirmed by owner 48 hours prior to demolition. |
| 5 | The contractor to the greatest extent practicable, limit the spread of dust and dirt through the use of water sprinkling, enclosures and other suitable methods to protect existing materials and finishes from damage. Comply with governing regulations with respect to environmental protection. |
| 6 | Contractor is to coordinate demolition work w/ architectural, structural, HVAC, plumbing & electrical drawings for exact scope of demolition work. |
| 7 | Contractor is to maintain temporary barricades for protection of job personnel and the public. Remove barricades when no longer required. |
| 8 | Contractor is to promptly repair any damages caused by demolition work, at no extra cost to the owner. |
| 9 | Contractor is to conduct operations in such a manner as to minimize interference with use of public ways and adjacent used facilities. Do not close, block, or otherwise obstruct use of public ways or facilities without written consent of authorities having jurisdiction. Provide alternate routes to closed or obstructed facilities as required by local regulations. |
| 10 | Existing utilities indicated to remain shall be kept in service and protected from damage during demolition operations. |
| 11 | Contractor shall coordinate with all utility companies 48 hours prior to any demolition work. |
| 12 | Do not interrupt existing utilities used for occupied facilities unless authorized in writing by authorities having jurisdiction, if interruption is allowed, provide alternate temporary services acceptable to governing authorities. |
| 13 | Locate, identify, shut off, cap and disconnect utilities at property line or valve. Provide by-pass connections as required to maintain services to adjacent properties and facilities. Provide a minimum of 72 hours advance notice to property owners if shut-down of services is required during the change-over. |
| 14 | Do all demolition work required to remove existing paving, foundations, slabs, underground piping, masonry walls, int. Partition walls, conduit, building finishes, doors, windows as shown on the drawings and any other necessary items to install all new work as shown. |
| 15 | Where existing walls are to be removed, the contractor shall observe existing conditions and shall take such precautions as necessary, including the placement of temporary shoring to support the building structure until new supporting construction is in place. |
| 16 | Where existing walls, doors, veneers, or fixtures are to be removed, the contractor shall repair, level and smooth the floor, ceiling and wall surfaces remaining to receive new finishes. |
| 17 | Where plumbing and/or fixtures are to be removed, cap plumbing lines below floor, behind wall surfaces, and above ceiling. Repair surfaces to receive new finishes. |
| 18 | Remove debris, rubbish, and other substances from site. Legally transport and dispose of such materials off-site. Burying or burning of to be removed materials on the project site is forbidden. |




1 **LEVEL 1 DEMOLITION PLAN**
3/32" = 1'-0"

TRUE NORTH

PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

**Project Manager:** Contact: Kyle Wojciechowski 214-766-3410

**Architect:** Contact: Dan Marta 469-455-1532


TRACTOR SUPPLY Co.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

DEMOLITION PLAN

D1.01

## Demolition Keynotes

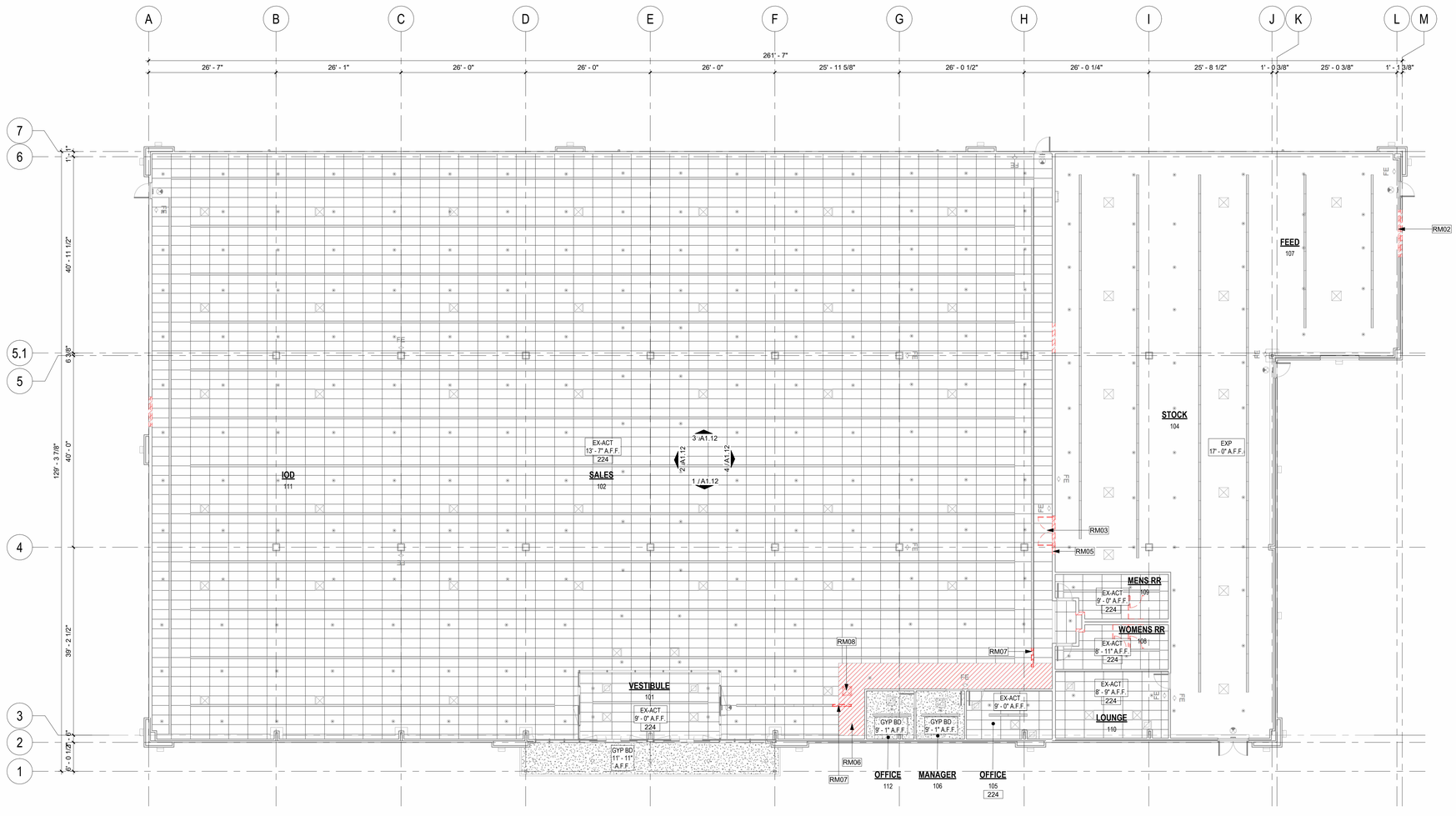
| | |
|---|---|
| 224 | REPLACE DAMAGED, STAINED, OR MISSING ACT IN EXISTING GRID. APPROXIMATELY 1,000 SQ. FT. IN BASE BID. |
| RM02 | Remove portion of wall, prep for 10'-0" W X 10'-0" Overhead Door, Patch and Repair Flooring |
| RM03 | Remove Door, Door Frame, Hardware and all associated parts |
| RM05 | Remove portion of existing wall and prep for new door. Patch and Repair damaged flooring. |
| RM06 | Remove Ceiling (Tiles and Grid) and all associated parts |
| RM07 | Remove Light Fixture and all associated parts |
| RM08 | Remove Ceiling diffuser and all associated parts |

## DEMOLITION PLAN LEGEND

ROOM NAME
150 SF ROOM NUMBER
FLR.# BASE # ROOM SIZE
WALL.# CLG.#
? PLAN KEYNOTE
DEMOLITION
EXISTING TO REMAIN
1 / A101 SIM INDICATES SIMILAR
1 / A101 WALL SECTION
1 / A101 DETAIL NUMBER / SHEET NUMBER
ENLARGED PLAN CALLOUT
0 COLUMN GRID
SPOT ELEVATION
1 / A### EXTERIOR ELEVATION REFERENCE
1 /A101 INTERIOR ELEVATION REFERENCE
ACCESSIBLE SEATING LOCATION / CLEAR FLOOR SPACE (30" x 42")
ACCESSIBLE TURNING RADIUS (60")

## Demolition General Notes

| | |
|---|---|
| 1 | Prior to the submission of bids, the contractor shall visit the job site to review scope o work. Contractor shall be responsible for familiarizing himself with all contract documents, field conditions and dimensions and confirming that the work may be accomplished as shown prior to proceeding with construction. |
| 2 | Contractor shall determine the quantities of demolition work required by personal observation at the building and on the site prior to bidding. |
| 3 | All dimensions shown on the drawings shall be field verified by the contractor. Any error or inconsistency shall be reported to the architect for instructions prior to start of construction. |
| 4 | Contractor is to coordinate with owner's representative on the removal, replacement and/or reuse of any existing equipment and fixtures, before demolition. Availability for demolition must be confirmed by owner 48 hours prior to demolition. |
| 5 | The contractor to the greatest extent practicable, limit the spread of dust and dirt through the use of water sprinkling, enclosures and other suitable methods to protect existing materials and finishes from damage. Comply with governing regulations with respect to environmental protection. |
| 6 | Contractor is to coordinate demolition work w/ architectural, structural, HVAC, plumbing & electrical drawings for exact scope of demolition work. |
| 7 | Contractor is to maintain temporary barricades for protection of job personnel and the public. Remove barricades when no longer required. |
| 8 | Contractor is to promptly repair any damages caused by demolition work, at no extra cost to the owner. |
| 9 | Contractor is to conduct operations in such a manner as to minimize interference with use of public ways and adjacent used facilities. Do not close, block, or otherwise obstruct use of public ways or facilities without written consent of authorities having jurisdiction. Provide alternate routes to closed or obstructed facilities as required by local regulations. |
| 10 | Existing utilities indicated to remain shall be kept in service and protected from damage during demolition operations. |
| 11 | Contractor shall coordinate with all utility companies 48 hours prior to any demolition work. |
| 12 | Do not interrupt existing utilities used for occupied facilities unless authorized in writing by authorities having jurisdiction, if interruption is allowed, provide alternate temporary services acceptable to governing authorities. |
| 13 | Locate, identify, shut off, cap and disconnect utilities at property line or valve. Provide by-pass connections as required to maintain services to adjacent properties and facilities. Provide a minimum of 72 hours advance notice to property owners if shut-down of services is required during the change-over. |
| 14 | Do all demolition work required to remove existing paving, foundations, slabs, underground piping, masonry walls, int. Partition walls, conduit, building finishes, doors, windows as shown on the drawings and any other necessary items to install all new work as shown. |
| 15 | Where existing walls are to be removed, the contractor shall observe existing conditions and shall take such precautions as necessary, including the placement of temporary shoring to support the building structure until new supporting construction is in place. |
| 16 | Where existing walls, doors, veneers, or fixtures are to be removed, the contractor shall repair, level and smooth the floor, ceiling and wall surfaces remaining to receive new finishes. |
| 17 | Where plumbing and/or fixtures are to be removed, cap plumbing lines below floor, behind wall surfaces, and above ceiling. Repair surfaces to receive new finishes. |
| 18 | Remove debris, rubbish, and other substances from site. Legally transport and dispose of such materials off-site. Burying or burning of to be removed materials on the project site is forbidden. |




**LEVEL 1 REFLECTED CEILING DEMOLITION PLAN**
1 3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532


TRACTOR SUPPLY Co.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 8738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

REFLECTED CEILING DEMOLITION PLAN

D1.21

## Floor Plan Keynotes

| | |
|---|---|
| 100 | NEW ASPHALT FORKLIFT RAMP |
| 121 | FIXTURE WALL; NIC. |
| 126 | NEW WATER FOUNTAIN. |
| 226 | REPLACE EXISTING DOUBLE DOORS WITH NEW RED CHASE SWING DOORS. |

## Floor Plan Legend

ROOM — Room name
150 SF — Room number
Room size
? — Plan Keynote
### — Door Number
XX# (X) — Wall Type
X — Window Type
1 A101 — SIM — Indicates similar
Wall Section
Detail Number
Sheet Number
Enlarged plan callout
0 — Column Grid
Spot Elevation
1 A### — Exterior Elevation Reference
1 /A101 — Interior Elevation Reference
Accessible seating location / clear floor space (30" x 42")
Accessible turning radius (60")

## Interior Partition Legend

XX# (# + X + #) (#HR) (X)

**Key 1** XX# — Material description and width
+
**Key 2** (# + X + #) — Layers of Gyp Bd., wall modifiers
+
**Key 3** (#HR) — Hourly fire rating if req'd
+
**Key 4** (X) — Height of wall

**Key 1**
XX#
Material description and width

**WS# Wood studs**
WS4 2 x 4 wood studs
WS6 2 x 6 wood studs

**MS# Metal Studs**
MS3 3 - 5/8" metal studs
MS6 6" metal studs

**M# Concrete Masonry Units (CMU)**
M8 7 - 5/8" CMU
M12 11 - 5/8" CMU

**C# Concrete Wall**
# Wall thickness

**FC# Furring Channels**
FC1 7/8" Furring channel
FC1.5 1-1/2" Furring channels

**S# Shaft Walls**
SW2 2-1/2" C-H metal studs
SW4 4" C-H metal studs
SW6 6" C-H metal studs

**Key 3**
(#HR)
Hourly fire rating if req'd

**Hourly Fire rating:**
(1HR) 1 Hour fire rated
(2HR) 2 Hour fire rated
(3HR) 3 Hour fire rated

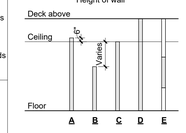
**Key 2**
(# + X + #)
Layers of Gyp Board and wall modifiers

**Layers of Gyp. Bd.:**
0 No Gyp. Bd.
1 One (1) layer of 5/8" Type X Gyp. Bd.
2 Two (2) layers of 5/8" Type X Gyp. Bd.
3 Three (3) layers of 5/8" Type X Gyp. Bd.
1* One (1) layer of 1" Type X Gyp. liner panel

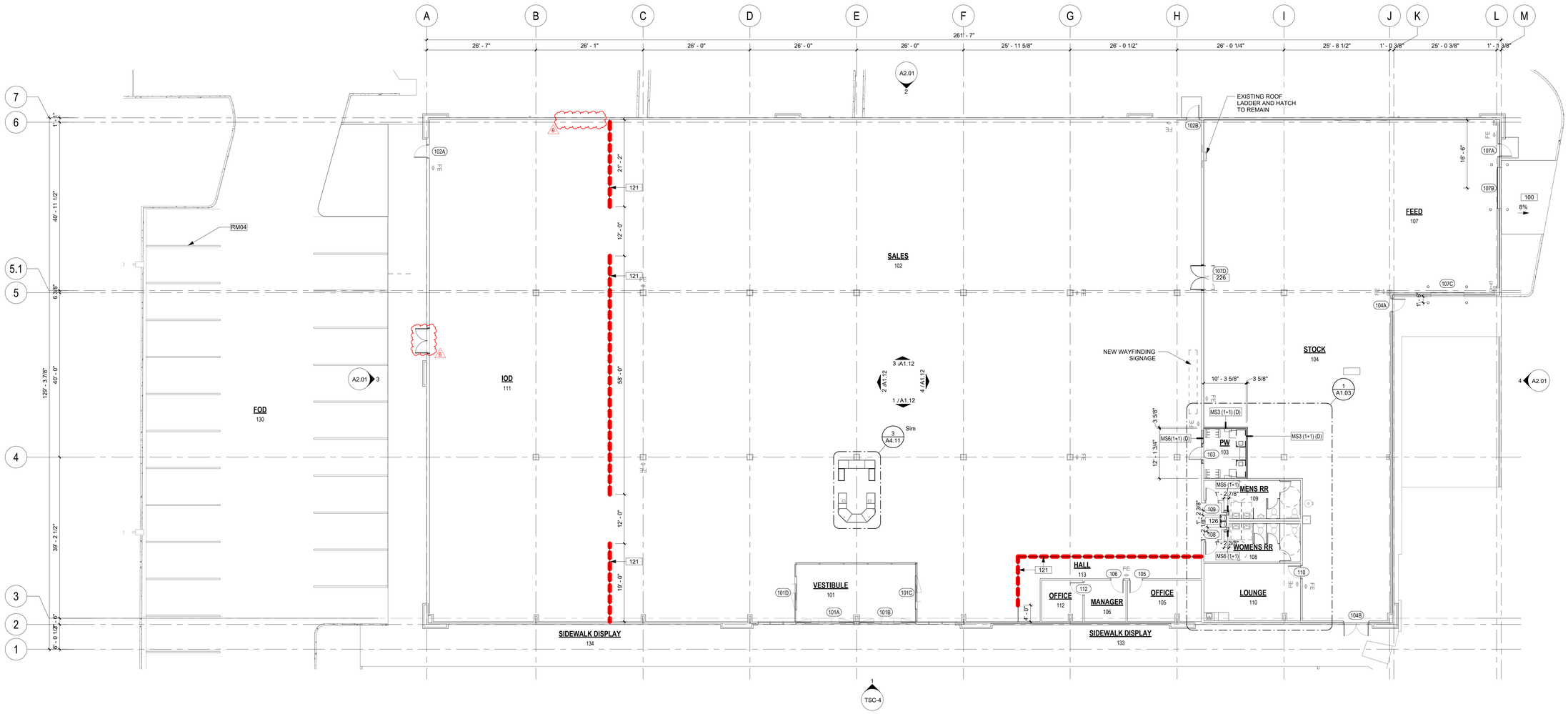
Note: Mold-resistant Type X in all wet areas

**Wall modifiers:**
S Sound attenuation insulation
AR Abuse Resistant Type X Gyp. Bd.
L Lead Lined
RC Resilient Channels

**Key 4**
(X)
Height of wall




A To 6" above ceiling
B Variable height
C To underside of ceiling
D To underside of deck above
E Infill existing opening




1 **LEVEL 1 FLOOR PLAN**
3/32" = 1'-0"

TRUE NORTH
PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532


TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

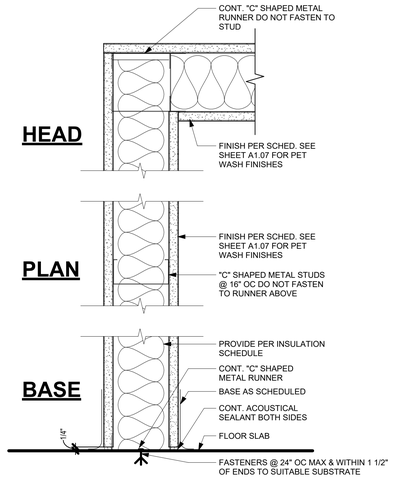
| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

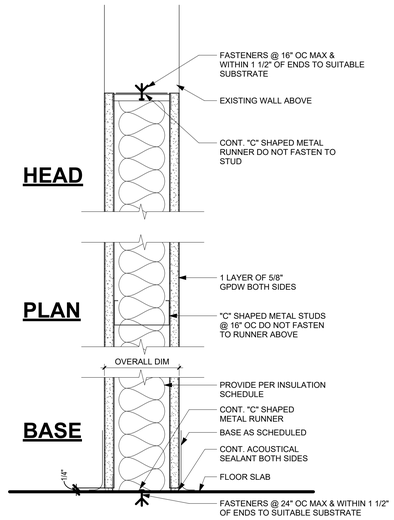
COPYRIGHT PARKWAY C&A, LP ©2025

LEVEL 1 FLOOR PLAN

A1.01




## MS (1+1) XX'-X" - INTERIOR PARITION PARTIAL HEIGHT




## MS (1+1) - INTERIOR PARITION INFILL

CONSTRUCTION • ARCHITECTURE

PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:**
Contact: Kyle Wojciechowski
214-766-3410

**Architect:**
Contact: Dan Marta
469-455-1532

TRACTOR SUPPLY CO.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 8738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

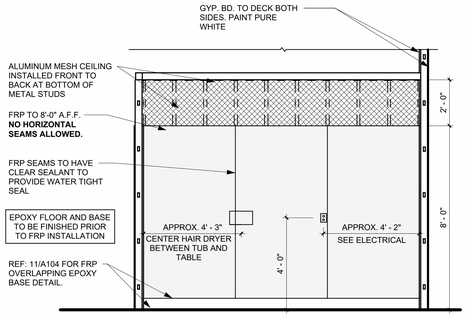
| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

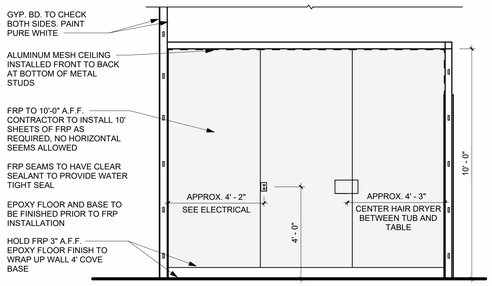
COPYRIGHT PARKWAY C&A, LP ©2025

WALL TYPES

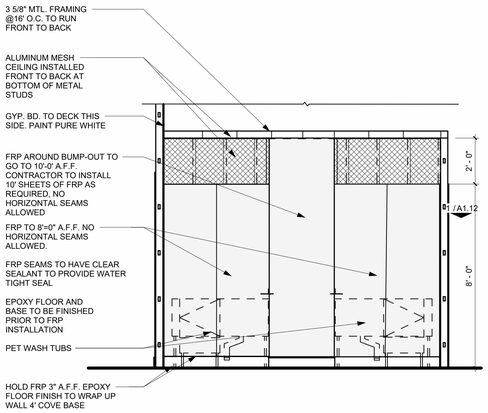
A1.02



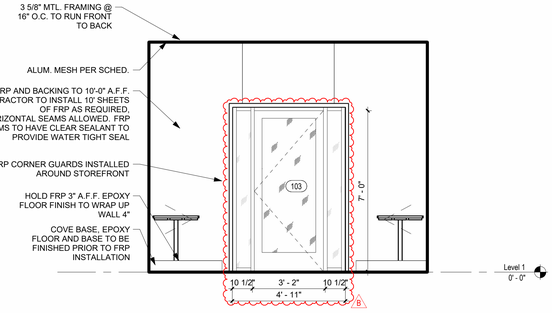

## 2 PET WASH - SOUTH ELEVATION
3/8" = 1'-0"



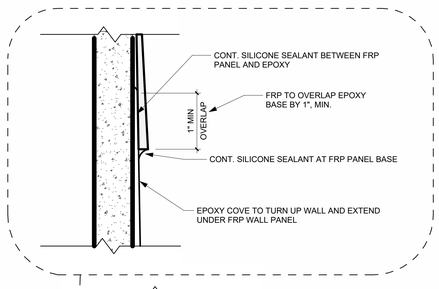

## 3 PET WASH - NORTH ELEVATION
3/8" = 1'-0"



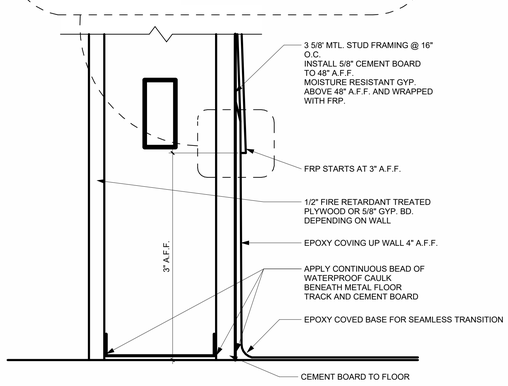

## 4 PET WASH - EAST ELEVATION
3/8" = 1'-0"

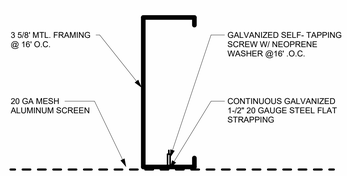



## 9 PET WASH - WEST ELEVATION
3/8" = 1'-0"

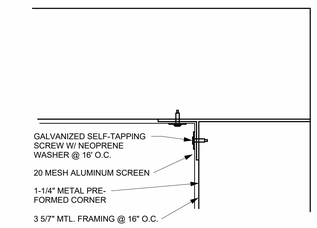



## 6 WALL BASE DETAIL
1 1/2" = 1'-0"

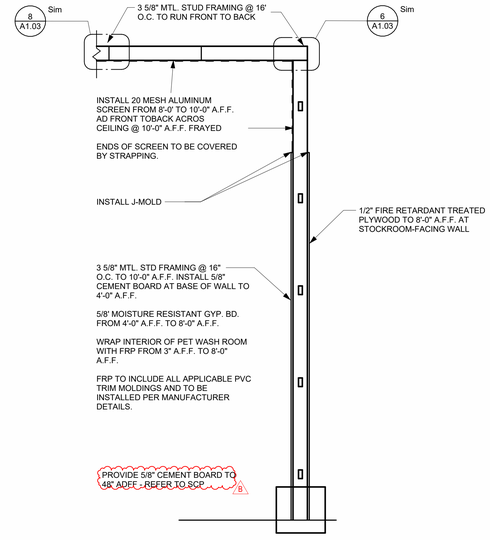



## 8 SCREEN ATTACHMENT DETAIL1
1" = 1'-0"




## 7 SCREEN WALL/CEILING CONNECTION DETAIL
6" = 1'-0"




## 5 PET WASH ROOM WALL SECTION1
3/4" = 1'-0"

## Floor Plan Keynotes

| | |
|---|---|
| 126 | NEW WATER FOUNTAIN. |
| 130 | SANITIZE WATER CLOSET. REPLACE SEAT. SANITIZE HARDWARE, INCLUDING ESCUTCHEON, TRIM RING, VALVE, AND SUPPLY LINE.) IF HARDWARE IS NOT CLEANABLE, BID ALTERNATE TO REPLACE HARDWARE. |
| 132 | SANITIZE URINAL. CAULK TO WALL. REPLACE HARDWARE WITH TOUCHLESS. |
| 134 | SANITIZE SINK. CAULK TO WALL. REPLACE HARDWARE WITH TOUCHLESS. REPLACE PIPE INSULATION. |
| 136 | SANITIZE PARTITION. TIGHTEN HARDWARE. REPLACE DAMAGED OR MISSING HARDWARE. |
| 141 | NEW MILLWORK. |
| 142 | NEW SINK. |
| 155 | MATCH EXISTING ADJACENT WALL CONSTRUCTION GYPSUM BOARD ON BOTH SIDES & FRP TO 5'0" AFF |

## Plumbing General Notes

| | |
|---|---|
| 1 | All plumbing material and installations shall be in accordance with all applicable codes and ordinances. |
| 2 | See plumbing drawings for locations and sizes of access panels. |
| 3 | All fixtures and accessories shall comply with the current A.D.A., state and local regulations for mounting heights and clearances. |
| 4 | All hot water and drainpipes shall be insulated per A.D.A. requirements. Minimum hot water supply insulation shall be pre-molded fiberglass pipe insulation with white all service jacket. Insulation thickness shall be min. 1". See plumbing drawings. |
| 5 | All grab bars in new construction shall be installed with concealed anchor plates. |
| 6 | The flush activator shall be located on the wide clearance side of handicapped units and shall be lever type. The force to activate shall not exceed 5 pounds. Activation shall be within 40" of fin. Floor. |
| 7 | Lavatory faucet controls shall be lever type and the force to activate shall not exceed 5 pounds. |
| 8 | Provide blocking in walls as req'd for all fixtures and equipment. |
| 9 | All dimensions are to face of stud or face of furring unless otherwise noted. "Clear" denotes finish to finish. |
| 10 | Toilet room walls to have sound batt insulation from floor to deck above. |
| 11 | Gyp. Bd. In all wet areas to be water resistant Gyp. Bd. |
| 12 | Concrete backer board shall be provided behind tile at walls. |
| 13 | Adjust supply line wall penetration heights as needed to avoid conflicts between flush valves and grab bar mounting heights. Grab bar mounting heights are to take priority. |
| 14 | Contractor to coordinate with specified fixtures and finishes to ensure rim of lavatories to be 34" A.F.F. max. |

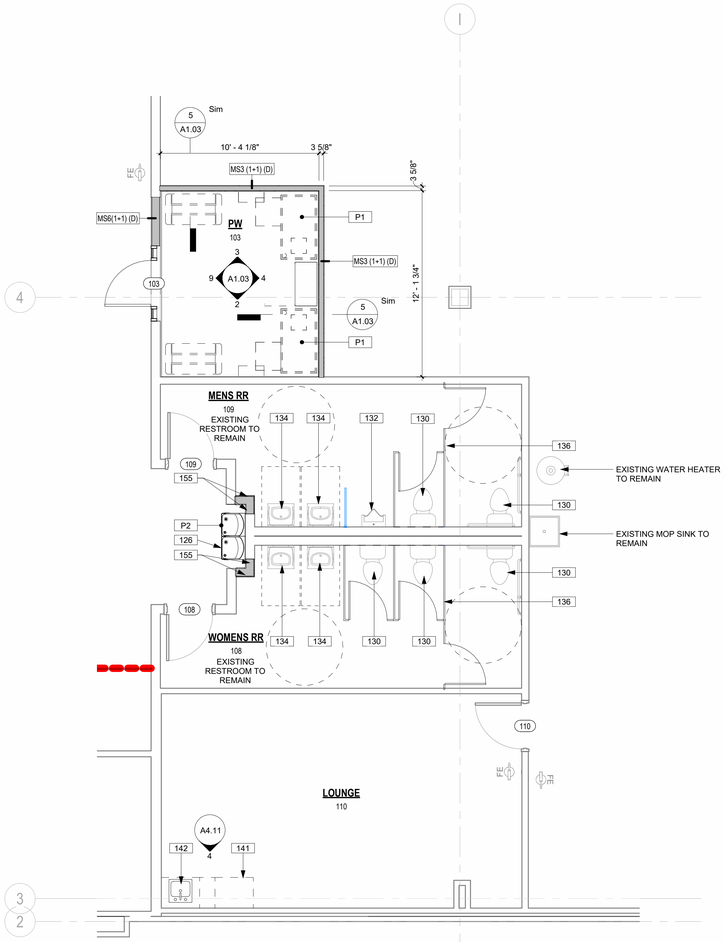
## DRAIN MANAGEMENT PROGRAM

| | |
|---|---|
| 1 | ALL DRAINS, VENTS, ETC. MUST BE TAPED OVER DURING CONSTRUCTION TO PREVENT DEBRIS FROM INFILTRATING THE LINES. |
| 2 | CONTRACTORS/DEVELOPER IS REQUIRED TO SUBMIT PHOTOS OF TAPED DRAINS. |
| 3 | CONTRACTOR WILL BE FINED $150 PER DAY IF PHOTOS ARE NOT SUBMITTED BY THE BEGINNING OF WEEK TWO OF THE PROJECT, OR IF ANY DRAIN IS DISCOVERED UNCOVERED DURING A PM SITE VISIT. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM. |
| 4 | CONTRACTOR/DEVELOPER WILL BE REQUIRED TO JET AND CAMERA ANY LINE IN WHICH THE DRAIN IS DISCOVERED UNCOVERED. RECEIPTS AND VIDEO MUST BE SUBMITTED TO TRACTOR SUPPLY FOR VERIFICATION. |
| 5 | DRAIN MANAGEMENT SIGNAGE WILL BE PROVIDED BY TRACTOR SUPPLY AND INSTALLED BY THE CONTRACTOR/DEVELOPER. |
| 6 | IF SIGNAGE IS NOT INSTALLED AT PUNCH, CLEANING/CAMERA POLICY WILL APPLY. |
| 7 | CONTRACTOR WILL BE FINED $150 PER DAY IF SIGNAGE IS NOT INSTALLED AT PUNCH. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM. |

## Plumbing Fixture Schedule

| Type Mark | Description | Manufacturer | Model | Comments |
|---|---|---|---|---|
| P1 | PET WASH TUB | DURA DOG | GTU50S PREMIER STAINLESS STEEL TUB | COMPLETE WITH PETLIFT A45-4C-625 FAUCET PACKAGE, 72" STAINLESS STEEL HOSE W/ SPRAYER AND WALL MOUNTING HOOK |
| P2 | ADA DRINKING FOUNTAIN AND WATER BOTTLE FILLER | Elkay.com | A172108F - UG - B512 - BCD WITH INFRARED SENSOR CONTROL AND WALL MOUNTING BRACKET, 8GPH, 115/1/60. | VERSATILE WALL MOUNT BI-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRA GRANITE |

*NOTE: ALL PLUMBING FIXTURES AND TOILET ACCESSORIES THAT ARE NOT TAGGED ARE EXISTING TO REMAIN.




## 1 ENLARGED FLOOR PLAN - LOUNGE, PET WASH & RESTROOMS
1/4" = 1'-0"

TRUE NORTH
PLAN NORTH

CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager: Kyle Wojciechowski 214-766-3410

Architect: Contact: Dan Marta 469-455-1532

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| | | |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |
| NO | DESCRIPTION | DATE |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

ENLARGED DETAILS

A1.03

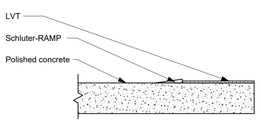
# ROOM FINISH SCHEDULE

| ROOM # | ROOM NAME | WALL FINISH | CEILING FINISH | WALL BASE | FLOOR FINISH | NOTES |
|---|---|---|---|---|---|---|
| 101 | VESTIBULE | PT6 | EX-ACT | VB | EX-CPT | |
| 102 | SALES | PT6 | EX-ACT | VB | EX-VCT | |
| 103 | PW | FRP / PT6 | ALUM | EPOXY | EPOXY | |
| 104 | STOCK | PT7 | EXP | VB | PC | |
| 105 | OFFICE | PT7 | EX-ACT | VB | EX-VCT | |
| 106 | MANAGER | PT7 | PT6 | VB | EX-VCT | |
| 107 | FEED | PT7 | EXP | VB | PC | |
| 108 | WOMENS RR | FRP/PT7 | EX-ACT | VB | EX-VCT | |
| 109 | MENS RR | FRP/PT7 | EX-ACT | VB | EX-VCT | |
| 110 | LOUNGE | PT7 | EX-ACT | VB | EX-VCT | |
| 111 | IOD | PT6 | EX-ACT | VB | EX-VCT | |
| 112 | OFFICE | PT7 | PT6 | VB | EX-VCT | |
| 113 | HALL | PT7 | EX-ACT | VB | EX-VCT | |

8

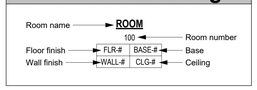
# Floor Plan Keynotes

| | |
|---|---|
| 121 | FIXTURE WALL; NIC. |
| 122 | VCT TO REMAIN. REPLACE UP TO X,XXX SQ. FT. IN BASE BID. WAX REPLACED TILES. |

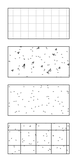



1 **LVT to concrete floor transition**
1 1/2" = 1'-0"

# Interior Finish Tag




# Floor Finish Legend




# ROOM FINISH NOTES

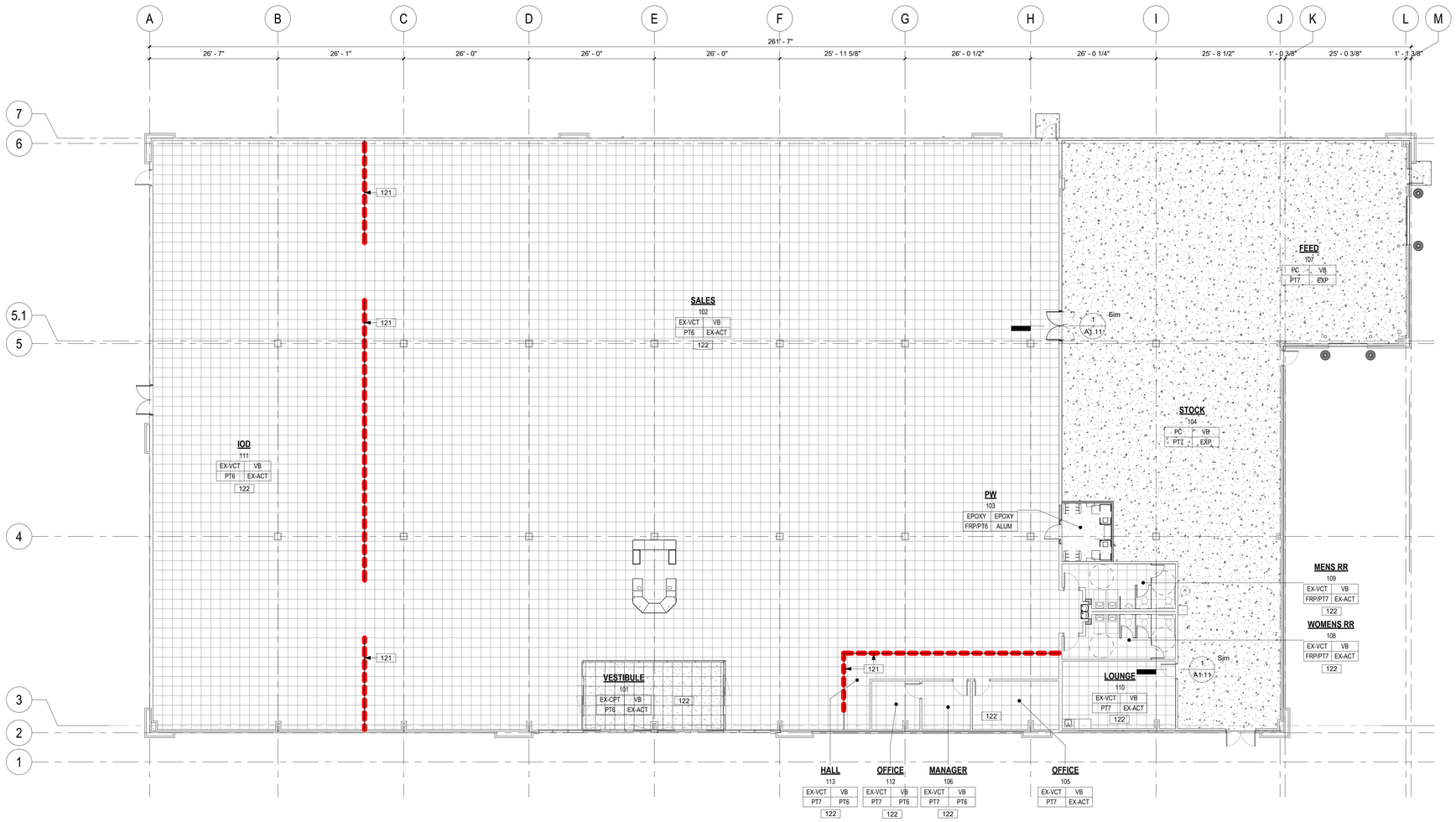
| | |
|---|---|
| 1 | VINYL PLANK (VP):DELIVERED BY TSC; SUPPLIED, PURCHASED, AND INSTALLED BY GC. COORDINATE EXTENT AND LOCATION WITH FINAL TSC FIXTURE PLAN AND TSC PROJECT MANAGER. |
| 2 | PAINT 1'-0" WIDE RED ACCENT STRIPE (PT4) FROM 10'-3" A.F.F. TO 11'-3" A.F.F. IN RETAIL SALES AREA. |
| 3 | GC IS RESPONSIBLE FOR ALL CONCRETE REPLACEMENT, TRENCH POUR BACKS AND FILLING/ PATCHING OF HOLES 3" OR LARGER AND IN GROUND ELECTRICAL BOXES NOT IN USE. |
| 4 | INTERIOR / EXTERIOR DRESSING ROOM WALLS TO BE (PT6). EXTERIOR DRESSING ROOM WALLS TO HAVE WALLPAPER PROVIDED AND INSTALLED BY TSC. PAINT DRESSING ROOM DOOR AND FRAME (PT1) SW7513 SANDERLING. |
| 5 | PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND PLUMBING FIXTURES. IF EXISTING GYPSUM BOARD IS NOT MOISTURE RESISTANT, REPLACE AT TIME OF REMODEL PRIOR TO INSTALLING FRP. |
| 6 | PAINT ALL EXPOSED CONDUIT IN RETAIL SALES FLOOR AREA TO MATCH ADJACENT SURFACE. |
| 7 | RETAIL SALES AREA WALLS TO BE PAINTED DOWN 7'-0" A.F.F. BEHIND FIXTURES AND WITHIN 12'-0" AROUND OPENINGS/ DOORS. |
| 8 | PROVIDE SOLID BLOCKING FOR WALL HUNG CABINETS, PLUMBING FIXTURES, ACCESSORIES AND MILLWORK. |
| 9 | IF ADDITIONAL ACT IS FOUND TO NEED REPLACED BEYOND BASE BID QUANTITY, REPLACE AS AN ALTERNATE. ENSURE GRID IS NOT DAMAGED AND FREE OF PAINT. ENSURE ACT IS SITTING FLUSH IN GRID. |
| 10 | THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT. PROVIDE TRANSITION FROM NEW VINYL PLANK TO EXISTING CONCRETE/ AND EXISTING VCT TO CONCRETE WHERE APPLICABLE |
| 11 | PAINT HOLLOW METAL DOORS & FRAMES, WOOD DOORS AND WOOD TRIM, AND INTERIOR COLUMNS (PT5) SW1012 POWER GRAY (EXCEPT WOOD DOOR AND HM FRAME AT DRESSING ROOM - PAINT SW7513 SANDERLING (PT1) - ALL SIDES) |
| 12 | PATCH AND SEAL HOLES/ CRACKS IN EXISTING WALLS. TOUCH UP PAINT ONLY. |
| 13 | *NEW FRP AT WATER FOUNTAIN AND AT MOP SINK WHERE EXISTING IS MISSING OR IN POOR CONDITION. |

# ADHESIVE BACKED VINYL INSTALL NOTES

1. NEW DRYWALL: MAKE SURE THE DRYWALL IS FREE OF CONTAMINANTS SUCH AS DUST, DIRT AND MILDEW. JOINTS AND SPACKLED AREAS SHOULD BE THOROUGHLY CURED AND SANDED SMOOTH. BEST RESULTS ARE OBTAINED WHEN THE MOISTURE CONTENT OF THE DRYWALL IS AT OR LESS THEN 5 PERCENT. APPLY A GOOD QUALITY OPAQUE/ WHITE PRIMER PRIOR TO PAINTING.
2. MOISTURE BEHIND DRYWALL CAN CAUSE THE DRYWALL PAPER TO RELEASE. WATCH FOR WALLS THAT BACK UP TO COOLING SYSTEMS, WATER PIPES, OVERHEAD WINDOWS OR WINDOWS THAT HAVE BEEN BOARDED UP. THESE AREAS ARE PRONE TO CONDENSATION THAT MAY NOT BE OBVIOUS AT THE TIME OF INSTALLATION (POINT OUT THESE LOCATIONS TO THE SUBCONTRACTOR PERFORMING THE INSTALLATION).
3. REPAIR ANY WALL DAMAGE. WALL GRAPHICS WILL NOT ADHERE TO PEELING OR CHIPPED PAINT. DENTED WALL SURFACES, OR HOLES IN THE WALL. ENSURE ALL ITEMS HAVE BEEN REPAIRED, SANDED, AND CLEANED SO A SMOOTH CLEAN SURFACE IS AVAILABLE FOR PAINT.
4. MANUFACTURER RECOMMENDS A GLOSS OR SEMI-GLOSS PAINT TO PROVIDE A SMOOTH, NON-POROUS SURFACE. FLAT OR SATIN FINISH PAINTS ARE NOT RECOMMENDED. ADVISE IF USING FLAT OR SATIN FINISH PAINT. INFORM YUNKER IF USING A LOW TO 0 VOC PAINT SO THE APPROPRIATE VINYL CAN BE USED. CONTACT YUNKER.COM (CONFIRM PRODUCT REP. FROM TSC).
5. USE A DAMP CLOTH TO REMOVE ANY DUST OR DEBRIS FROM THE WALL.
6. FOR ALL NEW CONSTRUCTION ALL WALLS MUST BE PRIMED BEFORE PAINTING. NOTE: VINYL WILL NOT ADHERE TO A WALL THAT HAS ONLY BEEN PAINTED AND NOT PRIMED.
7. ALLOW NO LESS THAN 7 DAYS FOR THE PAINT TO CURE BEFORE APPLYING VINYL.

# FINISH SCHEDULE

| MARK | MATERIAL MANUF. | MATERIAL DESCRIPTION | MATERIAL MODEL#/ COLOR | COMMENTS |
|---|---|---|---|---|
| CEILING | | | | |
| ACT1 | ARMSTRONG | DUNE 1776, LAY-IN 2' X 4' X 3/4" MINERAL BOARD, NON-DIRECTIONAL FISSURED | WHITE, MEDIUM TEXTURE | FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS 1 |
| ACT2 | GOLDBOND | GRIDSTONE GYPSUM LAY-IN 2' X 4' X 1/2" PANELS | WHITE, STIPPLE-TEXTURE | FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS 5 |
| EX-ACT | N/A - EXISTING | EXISTING - 2' X 4' PANELS IN EXISTING GIRD | N/A - EXISTING | THOROUGHLY CLEAN / DUST STRUCTURE AND CEILING WITH VACUUM. REPLACE DAMAGED, CRACKED, OR MISSING ACT TILES - MATCH EXISTING |
| EXP | N/A - EXISTING | EXISTING - EXPOSED STRUCTURE AND OPEN DECK | N/A - EXISTING | THOROUGHLY CLEAN / DUST STRUCTURE AND CEILING WITH VACUUM |
| ALUM | ALUMINUM MESH | ALUMINUM MESH | | |
| FLOORING | | | | |
| PC | N/A | BURNISHED/ POLISHED CONCRETE | N/A | FOLLOW CONCRETE SPECIFICATION FOR RETROFITS |
| VP | SWIFF-TRAIN COMPANY | EARTHWERKS, WOOD CLASSIC VINYL PLANK | SENORA - GWC9812 | BEVELED EDGE VINYL PLANK TO BE USED AT EXPOSED TRANSITION OF VINYL PLANK FLOORING TO CONCRETE. |
| EX-VCT | N/A - EXISTING | EXISTING SALES FLOOR VCT TO REMAIN WHERE NOTED | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING VCT TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING VCT. |
| EX-CPT | N/A - EXISTING | EXISTING CARPET TIL TO REMAIN | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING CPT TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING CPT. |
| EPOXY | SEE SPEC ON SHEET A0.30 | EPOXY FLOORING | SEE SPEC ON SHEET A.030 | SEE SPEC ON SHEET A0.30 |
| MISCELLANEOUS | | | | |
| TP | GLOBAL INDUSTRIES | PLASTIC LAMINATE FLOOR MOUNTED TOILET PARTITIONS | FINISHED W/ WILSONART LAMINATE, 4857-60 SHADOW ZEPHYR | AT LOCATIONS WHERE NEW PARTITIONS REQUIRED - SEE KEYNOTES |
| PL | WILSONART | PLASTIC LAMINATE COUNTER AND BACKSPLASH AT TSC PROVIDED MILLWORK | 4857-60 SHADOW ZEPHYR | COUNTERTOPS 2' DEEP; GC TO CUT OPENING FOR SINK. PROVIDE COLOR MATCHED EDGE BAND AT ALL EXPOSED COUNTER EDGES |
| PAINT | | | | |
| PT1 | SHERWIN WILLIAMS | FLAT FINISH | SW7513 - SANDERLING | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT2 | SHERWIN WILLIAMS | FLAT FINISH | SW7532 - URBAN PUTTY | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT3 | SHERWIN WILLIAMS | GLOSS FINISH | SW4084 - SAFETY YELLOW | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT4 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH (HIGH GLOSS AT EXTERIOR) | SW4081 SAFETY RED | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT5 | SHERWIN WILLIAMS | GLOSS FINISH | SW1012 POWER GRAY | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT6 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH | SW7005 PURE WHITE | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT7 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH | SW7036 ACCESSIBLE BEIGE | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| WALL ACCESSORIES | | | | |
| FRP | GLASTEEL | GLASLINER, 48" HIGH FRP WAINSCOT | COLOR: XA WHITE; FINISH: TEXTURED | GC TO PROVIDE INSIDE/ OUTSIDE CORNERS AND EXTERIOR TRIM FRP ACCESSORIES |
| VB | JOHNSONITE | TRADITIONAL VINYL 1/8" GAUGE, 4" HIGH WITH TOE | #40 - BLACK | INSTALL PRE-FORMED CORNER BASE AT ALL INSIDE AND OUTSIDE CORNERS |
| CG | (BASIS OF DESIGN) | 16 GAUGE STAINLESS STEEL, 96" X 2" X 2" | TYPE 304, SATIN #4 BRUSHED FINISH | INSTALL CORNER GUARDS AT ALL INTERIOR "OUTSIDE" CORNER CONDITIONS |
| EX-TL | N/A - EXISTING | WALL TILE TO REMAIN | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING WALL TILE. |




2 **LEVEL 1 FINISH PLAN**
3/32" = 1'-0"

TRUE NORTH

PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager: Contact: Kyle Wojciechowski 214-766-3410

Architect: Contact: Dan Marta 469-455-1532


TRACTOR SUPPLY Co.

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

FLOOR FINISH PLAN & SCHEDULES

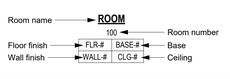
A1.11

# ROOM FINISH SCHEDULE

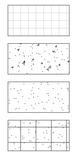
| ROOM # | ROOM NAME | WALL FINISH | CEILING FINISH | WALL BASE | FLOOR FINISH | NOTES |
|---|---|---|---|---|---|---|
| 101 | VESTIBULE | PT6 | EX-ACT | VB | EX-CPT | |
| 102 | SALES | PT6 | EX-ACT | VB | EX-VCT | |
| 103 | PW | FRP / PT6 | ALUM | EPOXY | EPOXY | |
| 104 | STOCK | PT7 | EXP | VB | PC | |
| 105 | OFFICE | PT7 | EX-ACT | VB | EX-VCT | |
| 106 | MANAGER | PT7 | PT6 | VB | EX-VCT | |
| 107 | FEED | PT7 | EXP | VB | PC | |
| 108 | WOMENS RR | FRP/PT7 | EX-ACT | VB | EX-VCT | |
| 109 | MENS RR | FRP/PT7 | EX-ACT | VB | EX-VCT | |
| 110 | LOUNGE | PT7 | EX-ACT | VB | EX-VCT | |
| 111 | IOD | PT6 | EX-ACT | VB | EX-VCT | |
| 112 | OFFICE | PT7 | PT6 | VB | EX-VCT | |
| 113 | HALL | PT7 | EX-ACT | VB | EX-VCT | |

# Floor Plan Keynotes

## Interior Finish Tag




## Floor Finish Legend




# ROOM FINISH NOTES

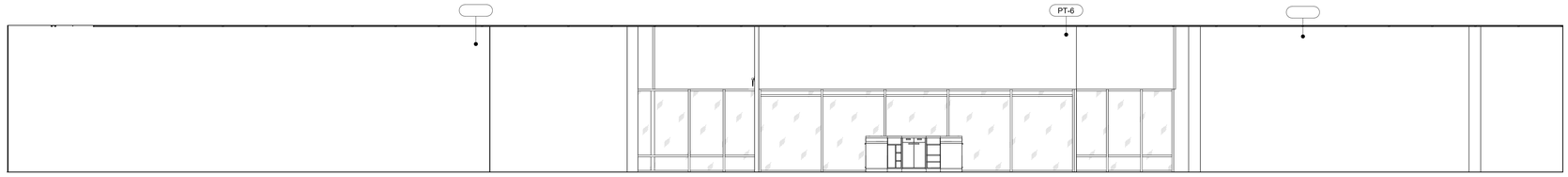
| | |
|---|---|
| 1 | VINYL PLANK (VP):DELIVERED BY TSC; SUPPLIED, PURCHASED, AND INSTALLED BY GC. COORDINATE EXTENT AND LOCATION WITH FINAL TSC FIXTURE PLAN AND TSC PROJECT MANAGER. |
| 2 | PAINT 1'-0" WIDE RED ACCENT STRIPE (PT4) FROM 10'-3" A.F.F. TO 11'-3" A.F.F. IN RETAIL SALES AREA. |
| 3 | GC IS RESPONSIBLE FOR ALL CONCRETE REPLACEMENT, TRENCH POUR BACKS AND FILLING/ PATCHING OF HOLES 3" OR LARGER AND IN GROUND ELECTRICAL BOXES NOT IN USE. |
| 4 | INTERIOR / EXTERIOR DRESSING ROOM WALLS TO BE (PT6). EXTERIOR DRESSING ROOM WALLS TO HAVE WALLPAPER PROVIDED AND INSTALLED BY TSC. PAINT DRESSING ROOM DOOR AND FRAME (PT1) SW7513 SANDERLING. |
| 5 | PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND PLUMBING FIXTURES. IF EXISTING GYPSUM BOARD IS NOT MOISTURE RESISTANT, REPLACE AT TIME OF REMODEL PRIOR TO INSTALLING FRP. |
| 6 | PAINT ALL EXPOSED CONDUIT IN RETAIL SALES FLOOR AREA TO MATCH ADJACENT SURFACE. |
| 7 | RETAIL SALES AREA WALLS TO BE PAINTED DOWN 7'-0" A.F.F. BEHIND FIXTURES AND WITHIN 12'-0" AROUND OPENINGS/ DOORS. |
| 8 | PROVIDE SOLID BLOCKING FOR WALL HUNG CABINETS, PLUMBING FIXTURES, ACCESSORIES AND MILLWORK. |
| 9 | IF ADDITIONAL ACT IS FOUND TO NEED REPLACED BEYOND BASE BID QUANTITY, REPLACE AS AN ALTERNATE. ENSURE GRID IS NOT DAMAGED AND FREE OF PAINT. ENSURE ACT IS SITTING FLUSH IN GRID. |
| 10 | THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT. PROVIDE TRANSITION FROM NEW VINYL PLANK TO EXISTING CONCRETE/ AND EXISTING VCT TO CONCRETE WHERE APPLICABLE |
| 11 | PAINT HOLLOW METAL DOORS & FRAMES, WOOD DOORS AND WOOD TRIM, AND INTERIOR COLUMNS (PT5) SW1012 POWER GRAY (EXCEPT WOOD DOOR AND HM FRAME AT DRESSING ROOM - PAINT SW7513 SANDERLING (PT1) - ALL SIDES) |
| 12 | PATCH AND SEAL HOLES/ CRACKS IN EXISTING WALLS. TOUCH UP PAINT ONLY. |
| 13 | *NEW FRP AT WATER FOUNTAIN AND AT MOP SINK WHERE EXISTING IS MISSING OR IN POOR CONDITION. |

# ADHESIVE BACKED VINYL INSTALL NOTES

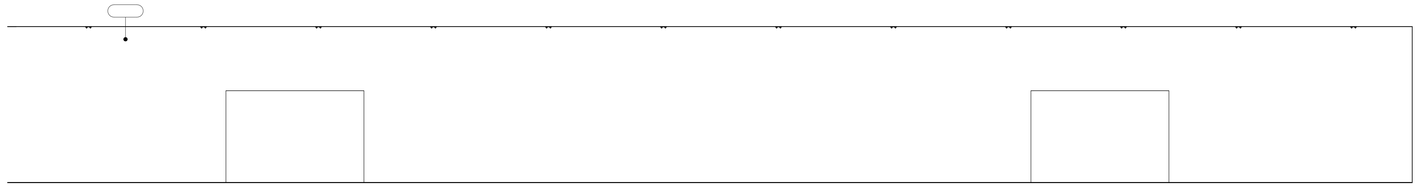
1. NEW DRYWALL: MAKE SURE THE DRYWALL IS FREE OF CONTAMINANTS SUCH AS DUST, DIRT AND MILDEW. JOINTS AND SPACKLED AREAS SHOULD BE THOROUGHLY CURED AND SANDED SMOOTH. BEST RESULTS ARE OBTAINED WHEN THE MOISTURE CONTENT OF THE DRYWALL IS AT OR LESS THEN 5 PERCENT. APPLY A GOOD QUALITY OPAQUE/ WHITE PRIMER PRIOR TO PAINTING.
2. MOISTURE BEHIND DRYWALL CAN CAUSE THE DRYWALL PAPER TO RELEASE. WATCH FOR WALLS THAT BACK UP TO COOLING SYSTEMS, WATER PIPES, OVERHEAD WINDOWS OR WINDOWS THAT HAVE BEEN BOARDED UP. THESE AREAS ARE PRONE TO CONDENSATION THAT MAY NOT BE OBVIOUS AT THE TIME OF INSTALLATION (POINT OUT THESE LOCATIONS TO THE SUBCONTRACTOR PERFORMING THE INSTALLATION).
3. REPAIR ANY WALL DAMAGE. WALL GRAPHICS WILL NOT ADHERE TO PEELING OR CHIPPED PAINT. DENTED WALL SURFACES, OR HOLES IN THE WALL. ENSURE ALL ITEMS HAVE BEEN REPAIRED, SANDED, AND CLEANED SO A SMOOTH CLEAN SURFACE IS AVAILABLE FOR PAINT.
4. MANUFACTURER RECOMMENDS A GLOSS OR SEMI-GLOSS PAINT TO PROVIDE A SMOOTH, NON-POROUS SURFACE. FLAT OR SATIN FINISH PAINTS ARE NOT RECOMMENDED. ADVISE IF USING FLAT OR SATIN FINISH PAINT. INFORM YUNKER IF USING A LOW TO 0 VOC PAINT SO THE APPROPRIATE VINYL CAN BE USED. CONTACT YUNKER.COM (CONFIRM PRODUCT REP. FROM TSC).
5. USE A DAMP CLOTH TO REMOVE ANY DUST OR DEBRIS FROM THE WALL.
6. FOR ALL NEW CONSTRUCTION ALL WALLS MUST BE PRIMED BEFORE PAINTING. NOTE: VINYL WILL NOT ADHERE TO A WALL THAT HAS ONLY BEEN PAINTED AND NOT PRIMED.
7. ALLOW NO LESS THAN 7 DAYS FOR THE PAINT TO CURE BEFORE APPLYING VINYL.

# FINISH SCHEDULE

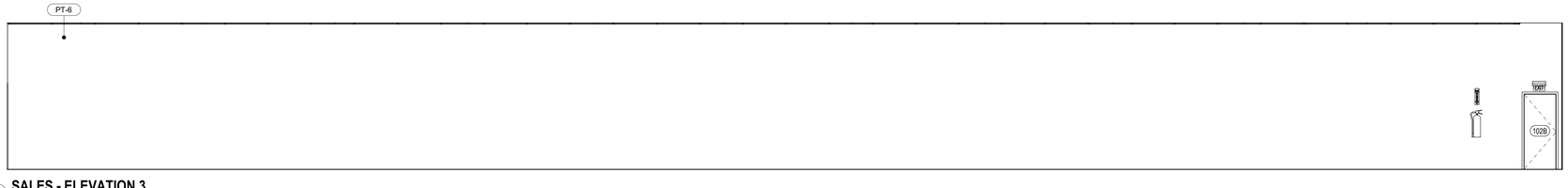
| MARK | MATERIAL MANUF. | MATERIAL DESCRIPTION | MATERIAL MODEL#/ COLOR | COMMENTS |
|---|---|---|---|---|
| CEILING | | | | |
| ACT1 | ARMSTRONG | DUNE 1776, LAY-IN 2' X 4' X 3/4" MINERAL BOARD, NON-DIRECTIONAL FISSURED | WHITE, MEDIUM TEXTURE | FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS 1 |
| ACT2 | GOLDBOND | GRIDSTONE GYPSUM LAY-IN 2' X 4' X 1/2" PANELS | WHITE, STIPPLE-TEXTURE | FLAME RESISTANCE CLASS A, FLAME SPREAD CLASS 5 |
| EX-ACT | N/A - EXISTING | EXISTING - 2' X 4' PANELS IN EXISTING GIRD | N/A - EXISTING | THOROUGHLY CLEAN / DUST STRUCTURE AND CEILING WITH VACUUM. REPLACE DAMAGED, CRACKED, OR MISSING ACT TILES - MATCH EXISTING |
| EXP | N/A - EXISTING | EXISTING - EXPOSED STRUCTURE AND OPEN DECK | N/A - EXISTING | THOROUGHLY CLEAN / DUST STRUCTURE AND CEILING WITH VACUUM |
| ALUM | ALUMINUM MESH | ALUMINUM MESH | | |
| FLOORING | | | | |
| PC | N/A | BURNISHED/ POLISHED CONCRETE | N/A | FOLLOW CONCRETE SPECIFICATION FOR RETROFITS |
| VP | SWIFF-TRAIN COMPANY | EARTHWERKS, WOOD CLASSIC VINYL PLANK | SENORA - GWC9812 | BEVELED EDGE VINYL PLANK TO BE USED AT EXPOSED TRANSITION OF VINYL PLANK FLOORING TO CONCRETE. |
| EX-VCT | N/A - EXISTING | EXISTING SALES FLOOR VCT TO REMAIN WHERE NOTED | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING VCT TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING VCT. |
| EX-CPT | N/A - EXISTING | EXISTING CARPET TIL TO REMAIN | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING CPT TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING CPT. |
| EPOXY | SEE SPEC ON SHEET A0.30 | EPOXY FLOORING | SEE SPEC ON SHEET A.030 | SEE SPEC ON SHEET A0.30 |
| MISCELLANEOUS | | | | |
| TP | GLOBAL INDUSTRIES | PLASTIC LAMINATE FLOOR MOUNTED TOILET PARTITIONS | FINISHED W/ WILSONART LAMINATE, 4857-60 SHADOW ZEPHYR | AT LOCATIONS WHERE NEW PARTITIONS REQUIRED - SEE KEYNOTES |
| PL | WILSONART | PLASTIC LAMINATE COUNTER AND BACKSPLASH AT TSC PROVIDED MILLWORK | 4857-60 SHADOW ZEPHYR | COUNTERTOPS 2' DEEP; GC TO CUT OPENING FOR SINK. PROVIDE COLOR MATCHED EDGE BAND AT ALL EXPOSED COUNTER EDGES |
| PAINT | | | | |
| PT1 | SHERWIN WILLIAMS | FLAT FINISH | SW7513 - SANDERLING | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT2 | SHERWIN WILLIAMS | FLAT FINISH | SW7532 - URBAN PUTTY | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT3 | SHERWIN WILLIAMS | GLOSS FINISH | SW4084 - SAFETY YELLOW | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT4 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH (HIGH GLOSS AT EXTERIOR) | SW4081 SAFETY RED | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT5 | SHERWIN WILLIAMS | GLOSS FINISH | SW1012 POWER GRAY | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT6 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH | SW7005 PURE WHITE | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| PT7 | SHERWIN WILLIAMS | SEMI-GLOSS FINISH | SW7036 ACCESSIBLE BEIGE | FOLLOW SPECIFICATION FOR APPLICATION DETAILS |
| WALL ACCESSORIES | | | | |
| FRP | GLASTEEL | GLASLINER, 48" HIGH FRP WAINSCOT | COLOR: XA WHITE; FINISH: TEXTURED | GC TO PROVIDE INSIDE/ OUTSIDE CORNERS AND EXTERIOR TRIM FRP ACCESSORIES |
| VB | JOHNSONITE | TRADITIONAL VINYL 1/8" GAUGE, 4" HIGH WITH TOE | #40 - BLACK | INSTALL PRE-FORMED CORNER BASE AT ALL INSIDE AND OUTSIDE CORNERS |
| CG | (BASIS OF DESIGN) | 16 GAUGE STAINLESS STEEL, 96" X 2" X 2" | TYPE 304, SATIN #4 BRUSHED FINISH | INSTALL CORNER GUARDS AT ALL INTERIOR "OUTSIDE" CORNER CONDITIONS |
| EX-TL | N/A - EXISTING | WALL TILE TO REMAIN | N/A - EXISTING | REPLACE DAMAGED, CRACKED, OR MISSING TILES - MATCH EXISTING. GC TO THOROUGHLY CLEAN EXISTING WALL TILE. |



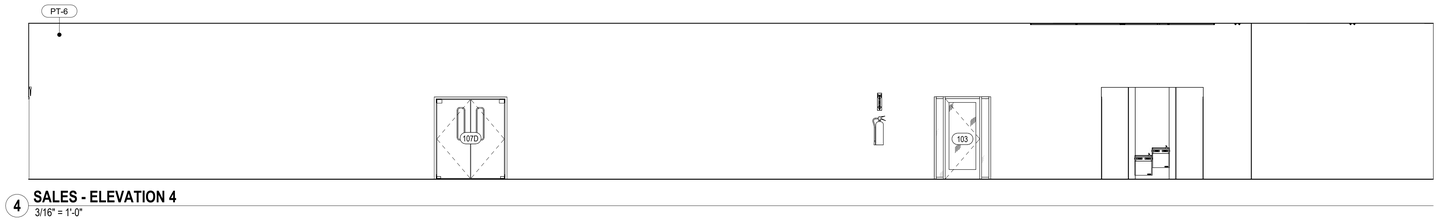

1 **SALES - ELEVATION 1**
3/16" = 1'-0"



2 **SALES - ELEVATION 2**
3/16" = 1'-0"




3 **SALES - ELEVATION 3**
3/16" = 1'-0"




4 **SALES - ELEVATION 4**
3/16" = 1'-0"

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532


TRACTOR SUPPLY Co.

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 8738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

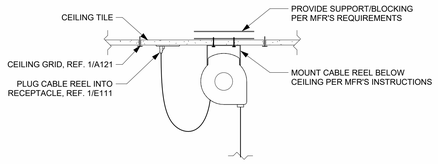
| NO | DESCRIPTION | DATE |
|---|---|---|
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

INTERIOR ELEVATIONS

A1.12




**CABLE REEL MOUNTING LOCATION**

2 1" = 1'-0"

## Ceiling Schedule

| Type Mark | Manufacturer | Description | Comments |
|---|---|---|---|
| ALUM | ALUMINUM MESH | ALUMINUM MESH | |
| EX-ACT | Armstrong | 2' x 4' Acoustical Ceiling Tile and grid system | <varies> |
| EXP | N/A | Exposed ceiling to structure | Thoroughly clean / dust structure and ceiling |
| GYP BD | N/A | Gypsum Board Ceiling | <varies> |

## Plan Keynotes

| | |
|---|---|
| 205 | EXISTING LIGHTING TO REMAIN. REPLACE LAMP OUTAGES FOR FULLY OPERATIONAL LIGHTS. |
| 211 | NEW LIGHT FIXTURE. |
| 218 | EXISTING OPEN DECK/ EXPOSED STRUCTURE. HIGH DUST. |
| 224 | REPLACE DAMAGED, STAINED, OR MISSING ACT IN EXISTING GRID. APPROXIMATELY 1,000 SQ. FT. IN BASE BID. |

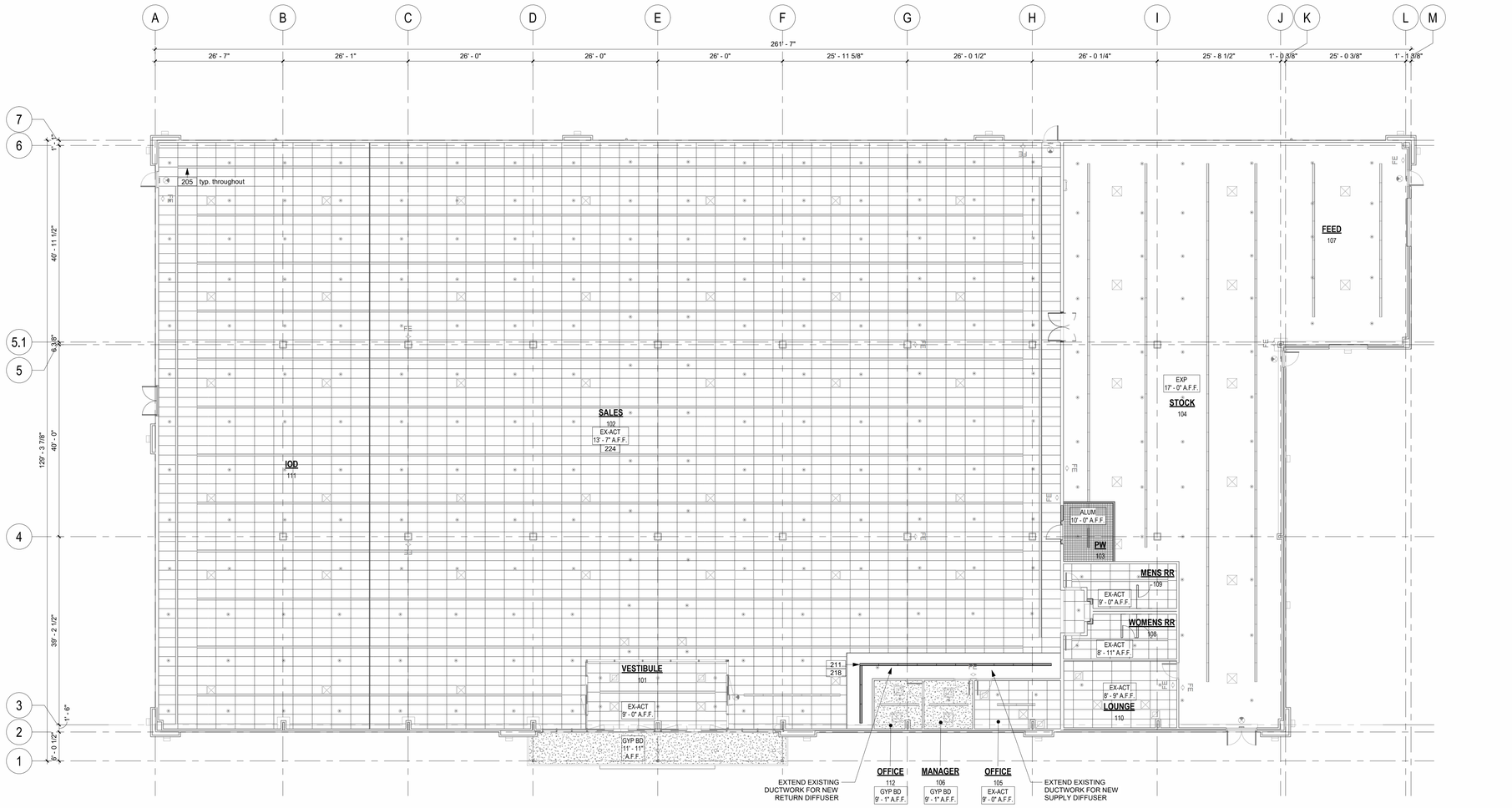
## Reflected Ceiling Plan General...

| | |
|---|---|
| 1 | Coordinate ceiling mounted equipment supports, device locations, clearances, etc. with equipment installers and suppliers prior to installation. |
| 2 | Mechanical and electrical information is shown to communicate design intent. Refer to mechanical and electrical drawings for detailed information. Notify architect/engineer of discrepancies prior to commencement of work. |
| 3 | Acoustical ceiling tile and grid shall be centered in room unless otherwise noted otherwise or dimensioned. |
| 4 | Ceiling mounted items (light fixtures, sprinkler heads, speakers, etc.) Shall be centered in acoustical ceiling panels or gypsum board soffits unless otherwise noted or dimensioned. |
| 5 | Space light fixtures evenly in rooms, bays, spaces, etc. And center between exposed structural elements where appropriate. |
| 6 | Dimensions to ceiling installed items are to centerline of fixture or equipment unless noted otherwise. |
| 7 | Locate control joints in gypsum board ceilings, soffits, bulkheads, and fascia's as indicated on drawings or as specified and to align with those in walls below. Verify proposed layout with architect prior to installation. |
| 8 | Paint all visible items including conduits, ductwork, supports, hangers, etc. that will remain exposed to view. Match color indicated for structure unless noted otherwise. |
| 9 | Access panels are shown for general ceiling composition. Coordinate exact locations with MEP / FP equipment for optimal access. Where possible, install access panels aligned/centered/equally spaced with other ceiling devices in room. After initial coordination with MEP / FP contractors, submit final access panel location drawing to architect for review prior to framing/install. |

## Reflected Ceiling Plan Legend

Type — CLG-# / ## - 8" A.F.F. — Hgt.

- Ceiling Tag
- 24" x 24" Acoustical Ceiling Tile
- 24" x 48" Acoustical Ceiling Tile
- 24" x 48" Acoustical Ceiling Tile (Second Look)
- 5/8" Gypsum Board Ceiling (Paint)
- Aluminum Mesh Ceiling
- Aluminum Soffit (Flush Seam)
- F1 - 2' x 4' LED Light Fixture
- LED Recessed Can Light
- LED Wallwashed Recessed Can Light
- 24" x 24" Supply Air Diffuser
- 24" x 24" Return Air Grill
- Exhaust Fan Grill
- Ceiling Mounted Exit Sign
- Wall Mounted Perpendicular Exit Sign
- Wall mounted Exit Sign
- Sprinkler Head




**LEVEL 1 REFLECTED CEILING PLAN**

1 3/32" = 1'-0"

TRUE NORTH

PLAN NORTH

CONSTRUCTION • ARCHITECTURE

PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:**
Contact: Kyle Wojciechowski
214-766-3410

**Architect:**
Contact: Dan Marta
469-455-1532

TRACTOR SUPPLY Co. TSC

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

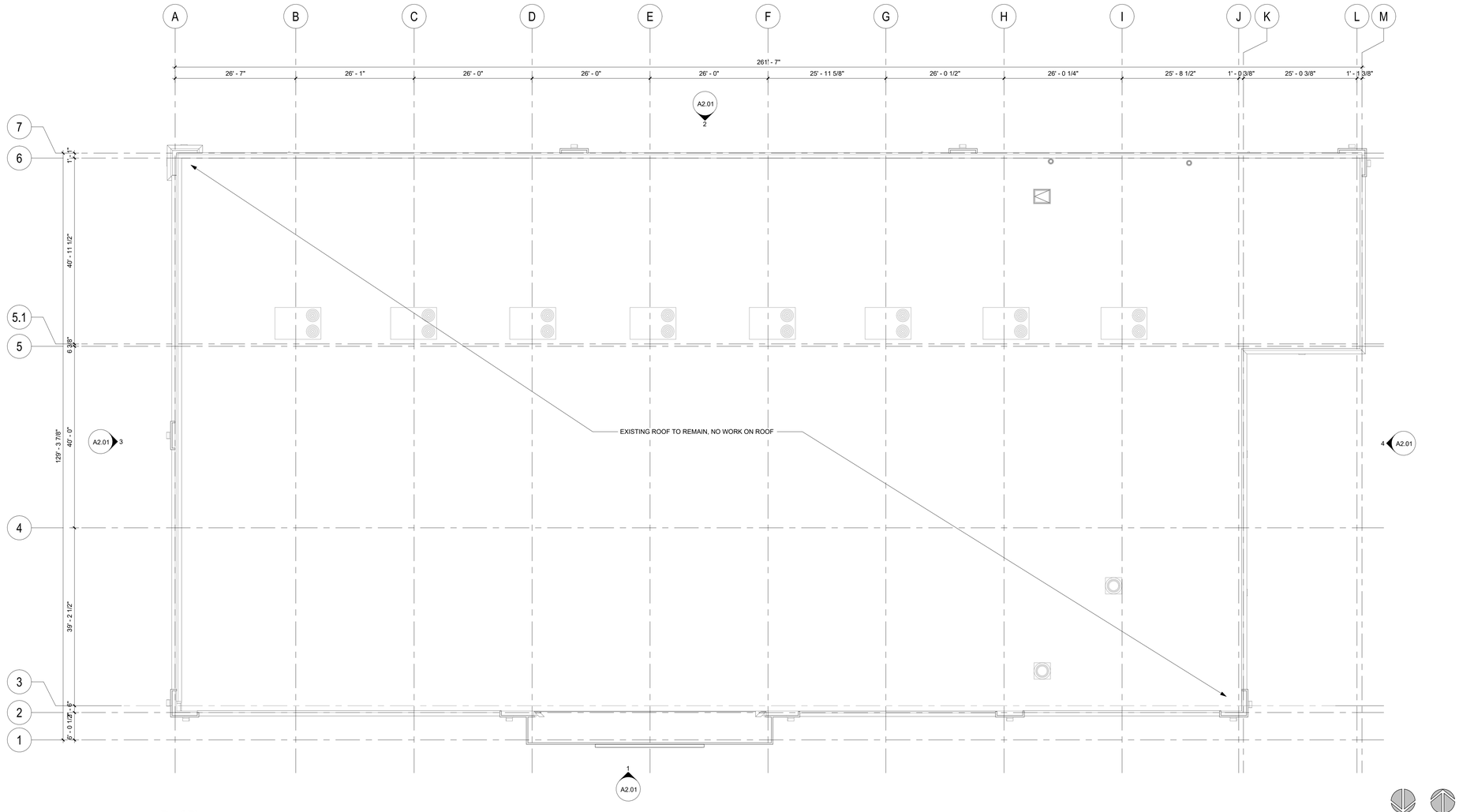
COPYRIGHT PARKWAY C&A, LP ©2025

REFLECTED CEILING PLAN

A1.21

## Roof Plan General Notes

| | |
|---|---|
| 1 | All work to be performed in strict accordance with the roofing manufacturer's recommendations. Reference sheet specifications. |
| 2 | Verify that all areas receiving built-up roofing are provided with positive drainage at 1/4" per foot minimum. |
| 3 | All crickets/flashing to have a slope of 1/2" per foot minimum. |
| 4 | Provide crickets/flashing around curbed roof openings. |
| 5 | All cap flashing corner shall be welded. |
| 6 | Refer to mechanical, plumbing and electrical for locations of piping, curbs, vents, ducts, fans and other items on the roof surface. |
| 7 | All plumbing, mechanical and electrical lines to receive pillow blocks at 4'-0" apart maximum unless noted otherwise. |
| 8 | Provide a secondary grease roof protection similar to Rooftop Solutions - G2 Grease Guard Rooftop Defense System for EF #1 through #5. Reference mechanical drawings. |
| 9 | Verify sizes and locations of all openings, platforms, etc. with respective contractors. |
| 10 | Do not penetrate paparet wall caps. |
| 11 | Provide roof jacks at all exposed roof penetrations. |
| 12 | All wall mounted and rooftop mechanical equipment will need to be screened from the public right-of-way/street view. |




1 **Roof Plan**
3/32" = 1'-0"

TRUE NORTH

PLAN NORTH

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

**Project Manager:**
Contact: Kyle Wojciechowski
214-766-3410

**Architect:**
Contact: Dan Marta
469-455-1532


TRACTOR SUPPLY Co.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM


**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448


STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

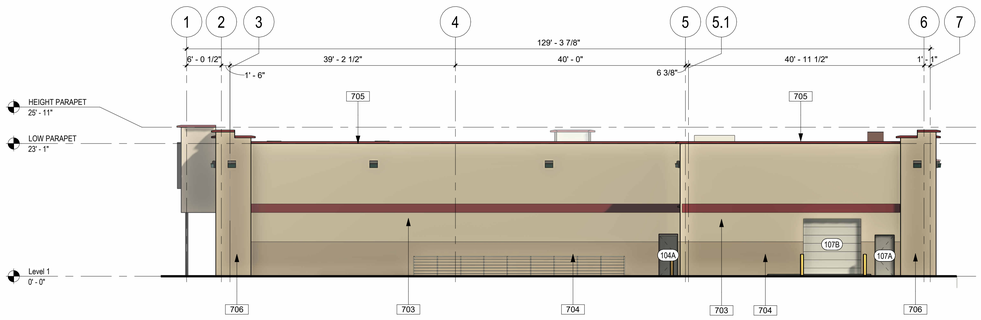
| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

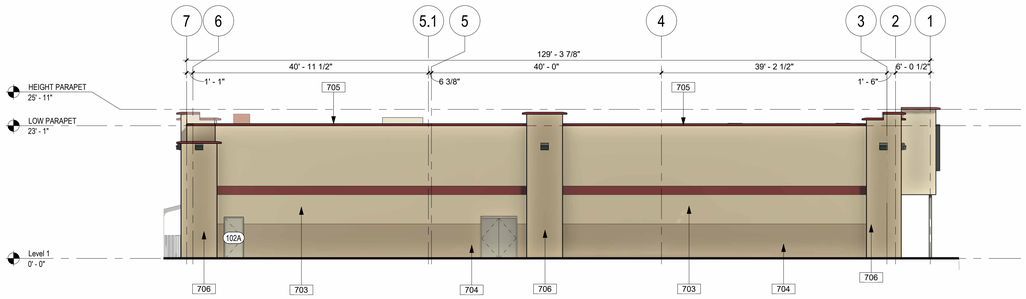
COPYRIGHT PARKWAY C&A, LP ©2025

ROOF PLAN

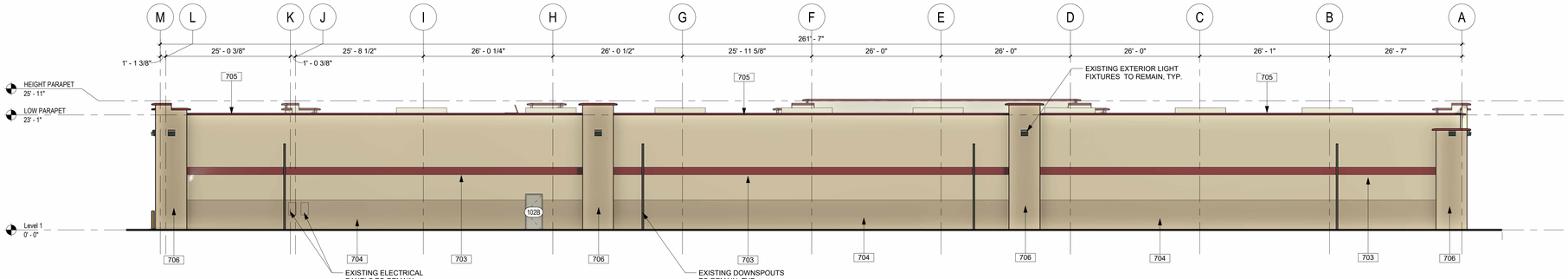
A1.41



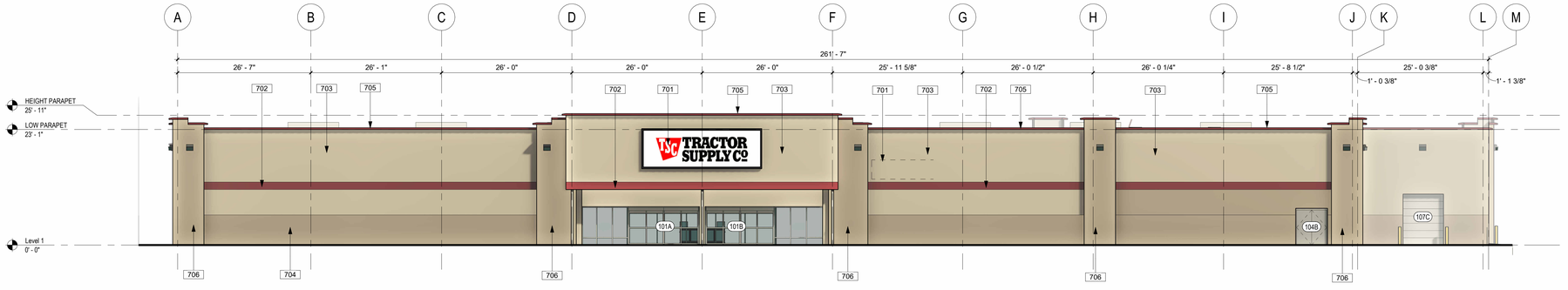

## 4 WEST ELEVATION
3/32" = 1'-0"




## 3 EAST ELEVATION
3/32" = 1'-0"




## 2 SOUTH ELEVATION
3/32" = 1'-0"




## 1 NORTH ELEVATION
3/32" = 1'-0"

## ELEVATION KEYNOTES

| | |
|---|---|
| 701 | NEW SIGN, FINAL SIZE AND LOCATION BY SIGNAGE VENDOR |
| 702 | PAINT STRIPE ON EXISTING WALL SAFETY RED AT 12'-0" (SW4081) |
| 703 | PAINT SW URBAN PUTTY (SW7532) ABOVE 6'-0" |
| 704 | PAINT SW SANDERLING (SW7513) UP TO 6'-0" |
| 705 | PAINT EXISTING COPING SAFETY RED (SW4081) |
| 706 | PAINT ALL PILASTERS SW SANDERLING (SW7513) |

## EXTERIOR GENERAL NOTES

| | |
|---|---|
| 2 | ANY EXPOSED FOUNDATION WALLS SHALL BE PAINTED TO MATCH SW7513 SANDERLING, TYPICAL. |
| 3 | COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL PENETRATIONS IN THE EXTERIOR FACADES. |
| 4 | ALL OPEN CMU CELLS TO BE TAILED FOAM FILLED. |
| 5 | FLASH DRAFT STOP AND INSULATE AROUND ALL PENETRATIONS INCLUDED BUT NOT LIMITED TO: PLUMBING PIPES, VENTS, ELECTRICAL WIRES, CONDUITS, ELECTRICAL FIXTURES, MECHANICAL SERVICES, AND IN SOME CASES, STRUCTURAL MEMBERS THROUGHOUT THE BUILDING ENCLOSURE. CONTRACTOR TO CHOOSE APPROPRIATE INFILL MATERIAL(S) AS REQUIRED SUCH AS BUT NOT LIMITED TO: CAULK, FOAM, PAINT, NON-DELETERIOUS ELASTOMERIC SEALANT, ADHESIVES, OR EFFECTIVE GASKETS. DO NOT EXCEED MANUFACTURES PUBLISHED TOLERANCES FOR MAXIMUM OPENING SIZES FOR INFILL. REFER TO ASTM C1193 FOR A STANDARD GUIDE FOR USE OF JOINT SEALERS. |
| 7 | GENERAL CONTRACTOR TO PROVIDE NON-CORROSIVE METAL SHOW GUARDS AT ALL SLOPE ROOFING/AWNINGS, TYPICAL. |
| 8 | CONTRACTOR TO PAINT ALL EXISTING TRIM, GUTTERS, DOWNSPOUTS, ETC. TO MATCH FINISH BELOW/ADJACENT. SEE SPECIFICATIONS. |
| 9 | ADD STEEL WOOL AT CONDUIT/ PIPE PENETRATIONS AT EXTERIOR WALLS, CAULK AND/OR PROVIDE CLOSED- CELL INSULATION AND COVER WITH ESCUTCHEON PLATE MADE OF MATERIAL APPROVED FOR OUTDOOR USE. |

## EXTERIOR FINISH SCHEDULE

| MARK | MANUFACTURER | DETAILS | COLOR / FINISH | COMMENTS |
|---|---|---|---|---|
| PT1 | SHERWIN WILLIAMS | FOLLOW PAINT SPECIFICATION FOR APPLICATION DETAILS | SW7513 - SANDERLING, FLAT | PAINT EXISTING EXTERIOR WALL SURFACE 0" TO 48" AFF |
| PT2 | SHERWIN WILLIAMS | FOLLOW PAINT SPECIFICATION FOR APPLICATION DETAILS | SW7532 - URBAN PUTTY, FLAT | PAINT FROM 48" TO TOP OF WALL.; AT EXISTING PREFINISHED METAL PANEL - PAINT FROM GRADE TO TOP OF WALL. PREPARE PREFINISHED METAL SURFACE TO ACCEPT NEW PAINT. |
| PT3 | SHERWIN WILLIAMS | FOLLOW PAINT SPECIFICATION FOR APPLICATION DETAILS | SW4084 - SAFETY YELLOW, GLOSS | LIGHT POLE BASES AND BOLLARDS THAT ARE TOO LARGE FOR MCCUE COVERS. BOLLARDS 8" DIA. AND LESS RECEIVE NEW MCCUE COVERS. VERIFY BOLLARD TYPES IN FIELD. |
| PT4 | SHERWIN WILLIAMS | FOLLOW PAINT SPECIFICATION FOR APPLICATION DETAILS | SW4081 - SAFETY RED, HIGH GLASS AT EXTERIOR | ON EXISTING CMU WALLS ONLY - RED ACCENT STRIPE - 10'-0" AFF TO 10-8" AFF ON THE FRONT, LEFT AND RIGHT SIDES OF THE BUILDING. |
| PT5 | SHERWIN WILLIAMS | FOLLOW PAINT SPECIFICATION FOR APPLICATION DETAILS | SW1012 - POWER GRAY, GLOSS | HANDRAILS AND GUARDRAILS, DOORS AND FRAMES (EXCEPT @ DRESSING ROOM). |

CONSTRUCTION • ARCHITECTURE

PKWY

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532

TRACTOR SUPPLY Co

TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 8738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

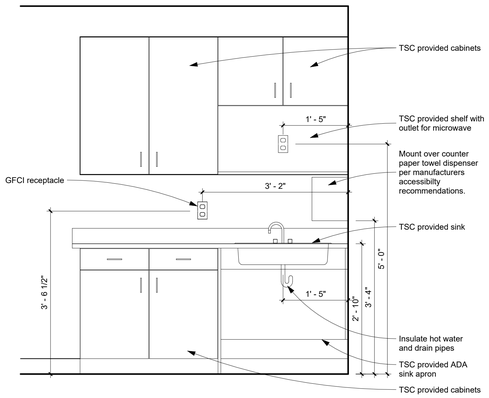
| NO | DESCRIPTION | DATE |
|---|---|---|
| 1 | SCOPE OF WORK UPDATES | 2025 07 01 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

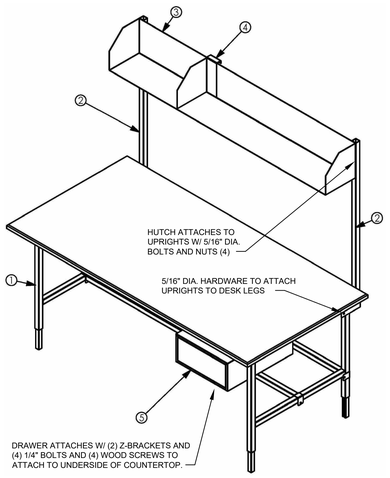
COPYRIGHT PARKWAY C&A, LP ©2025

EXTERIOR ELEVATIONS

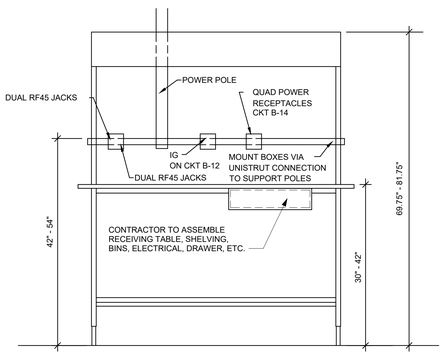
A2.01




**4 Millwork Employee Lounge**
3/4" = 1'-0"

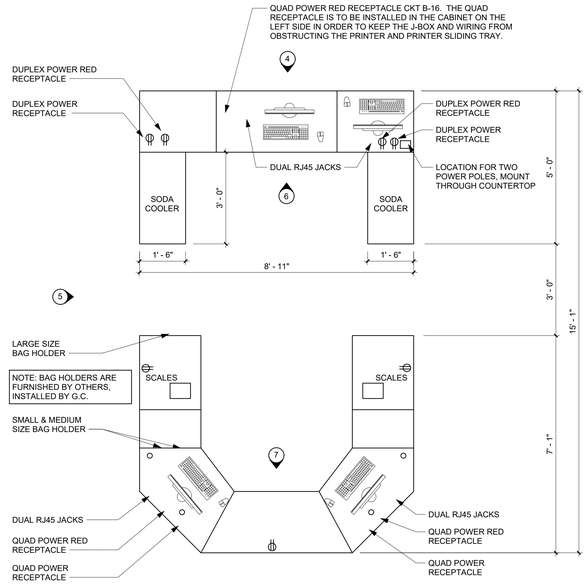



**RECEIVING ISOMETRIC**

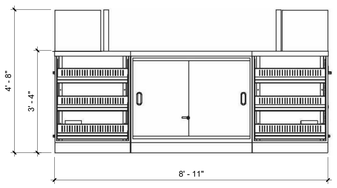



**RECEIVING ELEVATION**

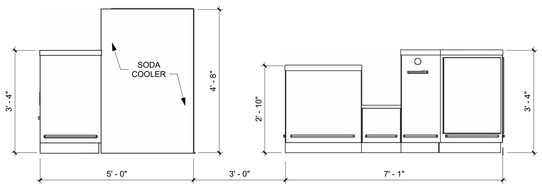
**2 RECEIVING TABLE**
12" = 1'-0"



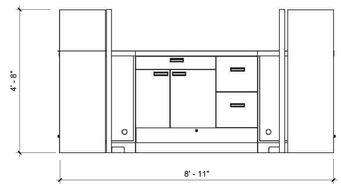

NOTE: JUNCTION BOXES FOR RECEPTACLES SHOWN ARE PRE-MOUNTED INTEGRAL TO THE CASEWORK. VERIFY EXACT LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL JUNCTION BOXES FOR DATA OUTLETS. VERIFY LOCATION WITH TSC PROJECT MANAGER.




4 BACK ELEVATION




5 SIDE ELEVATION

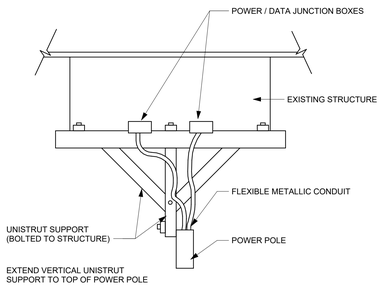



6 INTERIOR ELEVATION 1




7 INTERIOR ELEVATION 2

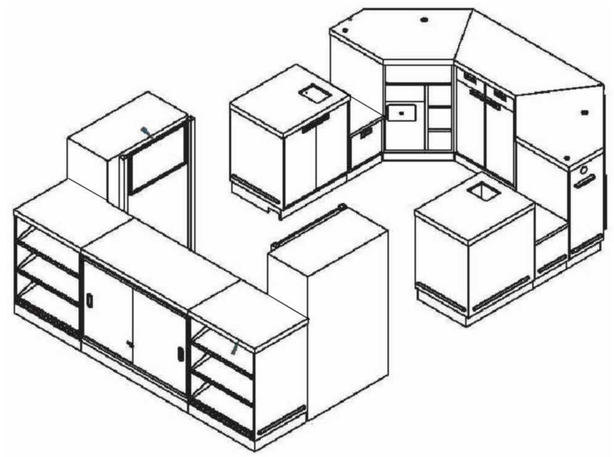
**U REGISTER COUNTER - ENLARGED PLAN**
3 1/2" = 1'-0"




**UNISTRUT DETAIL FOR SERVICE AND DISPLAY COUNTER**
1 1/2" = 1'-0"

## HUB / U" REGISTER COUNTER

GENERAL CONTRACTOR RESPONSIBLE FOR RECEIVING, PLACING, AND ASSEMBLY OF ALL TENANT SUPPLIED MILLWORK.



CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75057
parkwayconstruction.com (972) 221-1979

Project Manager: Kyle Wojciechowski 214-766-3410
Architect: Contact: Dan Marta 469-455-1532

TRACTOR SUPPLY Co.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

MILLWORK DETAILS

A4.11

# DOOR SCHEDULE

| DOOR # | EXISTING OR NEW DOOR | DOOR TYPE | DOOR AND FRAME ASSEMBLY | | | | | | | | | | DOOR NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SIZE | | | DOOR | | FRAME | | | | | |
| | | | WIDTH | HEIGHT | THICKNESS | DOOR MATERIAL | DOOR FINISH | TYPE | MATERIAL | FINISH | HARDWARE SET | |
| 101A | Existing | J1 | 72" | 90" | 1 3/4" | EXIST. ALUM / GLASS | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 101B | Existing | J1 | 72" | 90" | 1 3/4" | EXIST. ALUM / GLASS | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 101C | Existing | J1 | 96" | 82" | 1 3/4" | EXIST. ALUM / GLASS | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 101D | Existing | J1 | 96" | 90" | 1 3/4" | EXIST. ALUM / GLASS | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 102A | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 102B | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 103 | New Construction | F | 36" | 84" | 1 3/4" | STORE FRONT GLASS | ALUM | NA | STORE FRONT GLASS | ALUM | 1D | |
| 104A | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 104B | Existing | B | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 105 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 106 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | INSTALL SILENCER AND DOOR STOPS |
| 107A | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | |
| 107B | New Construction | E | 120" | 120" | 1 1/2" | INSULATED METAL | PT | See Elev. | INSULATED METAL | PT | BY MANUFACTURER | SECTIONAL OVERHEAD DOOR BY RAYNOR MODEL FF175 SECTIONAL |
| 107C | Existing | E | 97" | 122" | 1 1/2" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | SECTIONAL |
| 107D | New Construction | D | 72" | 84" | 1" | HM | BY MANUFACTURER | NA | HM | BY MANUFACTURER | BY MANUFACTURER | CHASE DOORS |
| 107E | New Construction | B | 36" | 84" | 1 3/4" | STORE FRONT GLASS | ALUM | NA | STORE FRONT GLASS | ALUM | 1C | |
| 108 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | INSTALL SILENCER AND DOOR STOPS |
| 109 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | INSTALL SILENCER AND DOOR STOPS |
| 110 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | INSTALL SILENCER AND DOOR STOPS |
| 112 | Existing | C | 36" | 84" | 1 3/4" | EXIST. HM | EXIST. | EXIST. | EXIST. | EXIST. | EXIST. | INSTALL SILENCER AND DOOR STOPS |

Grand total: 20

# DOOR NOTES

| | |
|---|---|
| 1 | 10' WIDE X 10' HIGH INSULATED SECTIONAL DOOR W/ ELECTRIC OPERATOR, (2) RADIO REMOTES, TIMER, CHAIN KEEPER AND REVERSING SAFETY EDGE. OVERRIDE BUTTON TO BE SUPPLIED BY OVERHEAD DOOR VENDOR AND INSTALLED BY GENERAL CONTRACTOR. |
| 3 | DOOR AT LOADING DOCK TO HAVE DOOR BELL. RINGERS TO BE LOCATED AT RECEIVING DESK AND CASH REGISTER. "BIG EYE" VIEWER IN DOOR. VERIFY WITH TSC PM IF REQUIRED ON EXISTING DOOR. |
| 4 | DOOR TO HAVE 4" ALUMINUM HEAD AND THRESHOLD. THRESHOLD MUST BE ADA COMPLIANT. |
| 6 | NOTE DOORS REQUIRE A MINIMUM 10" BOTTOM RAIL TO RECEIVE KICK PLATES. |
| 7 | ALL DOORS TO HAVE ADA APPROVED HARDWARE. |
| 12 | CONTRACTOR TO INSTALL PLASTIC AIR CURTAIN WITH 50% PANEL OVERLAP AT OH DOORS. INCLUDED WITH OVERHEAD DOOR VENDOR PACKAGE. INCLUDES ALL OVERHEAD DOORS IN RETROFIT STORES. |
| 15 | THE CHANNELS THAT MAKE UP THE JAMBS AND HEAD FOR THE ROLLING SERVICE DOOR AND ITS ATTACHMENT POINTS SHOULD BE FLUSH AND SMOOTH WITH THE SURROUNDING INTERIOR WALLS AS WELL AS ABOVE THE INTERIOR OPENING. PROVIDE A STRUCTURAL SURFACE IN LINE WITH THE JAMBS THAT EXTENDS ABOVE THE OPENING FOR A MINIMUM OF 30" FOR ATTACHMENT POINTS. STRUCTURAL SURFACE TO E CAPABLE OF WITHSTANDING 1,850 LB. POINT FORCE IN EITHER TENSION, COMPRESSION, OR SHEAR. |
| 16 | PROVIDE AND INSTALL "EMPLOYEES ONLY" SIGN WHERE INDICATED. |
| 17 | PROVIDE (2) CRASH RAILS, ONE ON EACH INTERIOR SIDE OF EACH DOOR. |
| 18 | 72" X 96" DURULITE STANDARD DOOR WITH 10" X 30" ADA COMPLIANT WINDOWS, 18" TALL BUMPERS, COLOR: RED. |
| 19 | INSTALL CLEAR ANODIZED STOREFRONT FRAMING WITH 1/4" TEMP. CLEAR GLASS SIDELIGHTS. DOOR TO SWING OPEN TO SALES AREA. SIDELIGHT GLASS TO ACCEPT 6.25" X 48.85" VINYL FILM. NARROW STILE DOOR WINDOW GLASS TO ACCEPT 30.25" X 57.825" VINYL FILM. |
| 21 | CONTRACTOR TO PAINT FRAME SW7513 SANDERLING BOTH SIDES. |
| 22 | SFIC COMPATIBLE HARDWARE. |
| 24 | GC TO HIRE AN APPROVED LICENSED DOOR VENDOR. REPLACE SEALS AND SWEEPS. GREASE AND ADJUST AS REQUIRED AT TIME OF REMODEL. |
| 25 | REPLACE SEALS, SWEEPS, AND ADJUST DOOR IF NOT OPENING PROPERLY AT TIME OF REMODEL. RE-CAULK FRAME TO WALL IF NEEDED. CLEAN OFF OLD CAULK PRIOR TO INSTALLING NEW BEAD OF CAULK. ENSURE CAULK IS CLEAN/ SMOOTH TRANSITION FROM FRAME TO WALL. |
| 26 | PAINT DOORS. ADJUST DOOR CLOSER. POLISH HANDLE, KICK PLATE IF EXISTING, AND HINGES AFTER DOOR IS PAINTED. INSTALL DOOR SILENCERS. INSTALL DOOR STOPS AS NEEDED. |
| 27 | REMOVE EXISTING DOOR HARDWARE; REPLACE WITH HARDWARE SET INDICATED IN SCHEDULE. |
| 28 | INSTALL CLOSER - PARALLEL ARM SC81 A X DS X SLIM-689; MANUF. FAL. |
| 29 | INSTALL CLOSER - SC81A X RW/PA X SLIM-689; MANUF. FAL. |
| 30 | CONTRACTOR TO PAINT 6" YELLOW VERTICAL STRIPE (PT3) SAFETY YELLOW SW4084 ON INSIDE FACE OF DOOR. |
| 31 | CLEAN GLASS. IF ANY GLASS IS BROKEN AT TIME OF REMODEL, BID AS ALTERNATE TO REPLACE BROKEN GLASS. ENSURE ALL SEALS AROUND GLASS ARE TIGHT. |

# DOOR HARDWARE SCHEDULE

| SET # | QUANTITY | ITEM | MANUF. |
|---|---|---|---|
| 1A | 1 EA.<br>1 EA.<br>1 EA. | MORTISE CYLINDER 28107-1-26D<br>1CC7A2 (GREEN CONSTRUCTION CORE) - GREEN<br>MORTISE THUMB TURN CYLINDER-26D<br>MORTISE THUMB TURN CYLINDER-26D<br>BALANCE OF HARDWARE BY DOOR SUPPLIER | ILC<br>BEST<br>ILC |
| 1B | 2 EA. | DUMMY CYLINDER 7160C-26D<br>BALANCE OF HARDWARE BY DOOR SUPPLIER | ILC |
| 1C | 1 EA.<br>1 EA.<br>1 EA. | THUMB TURN - CYLINDER - 26D<br>MORTISE CYLINDER 28107-1-26D<br>DRIP CAP 16A X 76-1 | ILC<br>ILC<br>NAT |
| 1D | 1 EA.<br>1 EA.<br>1 EA. | MORTISE CYLINDER 28107-1-26D<br>THUMB TURN-CYLINDER - 26D<br>CYLINDER CORE 1CC7A2 (GREEN CONSTRUCTION CORE)<br>BALANCE OF HARDWARE BY DOOR SUPPLIER | ILC<br>ILC<br>BEST |
| 2 | | ALL HARDWARE BY DOOR SUPPLIER | |
| 3 | 3 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>3 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>SURFACE CLOSER SC81A RW/PA AS SPECIFIED - 689<br>STOREROOM LOCKSET T581BD X D X 23981145 X 5164 X 1<br>3/4<br>WALL STOP WS407 - CCV-US32D<br>SILENCER SR64 - GRY | McK<br>FAL<br>FAL<br>IVE<br>IVE |
| 4 | 1 EA.<br>1 EA.<br>3 EA. | CONTINUOUS HINGE 22HD<br>PRIVACY LOCK T3015 X D X 23981137 X 5164 X 1 3/4 - 626<br>SILENCER SR64 - GRY | McK<br>FAL<br>IVE |
| 5 | 3 EA.<br>1 EA.<br>2 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>ALARMED EXIT DEVICE ECL-230D-GRAY<br>RIM CYLINDER R28207-9<br>SURFACE PULL 8N US28<br>CLOSER, PARALLEL ARM SC81 A X DS X SLIM-689<br>THRESHOLD 896V - MILL<br>DOOR BOTTOM 795WH - MILL<br>WEATHERSTRIP 160V - MILL<br>DROP CAP 16A-A<br>VIEWER U698 B26D (MOUNT 60" CL/AFF - DOOR ### ONLY) | McK<br>DET<br>ILC<br>HAG<br>FAL<br>NAT<br>NAT<br>NAT<br>NAT<br>IVE |
| 5B | 3 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>RIM EXIT DEVICE V40 X DC X EE X TSC - 711<br>POWER TRANSFER PT5<br>MORTISE CYLINDER 28107-1-26D<br>CLOSER, PARALLEL ARM SC81A X DS X SLIM-689<br>THRESHOLD 896V - MILL<br>WEATHERSTRIP 160V - MILL<br>DROP CAP 16A-A<br>SILENCERS SR64-GRY | McK<br>DET<br>DET<br>KABA<br>FAL<br>NAT<br>NAT<br>NAT<br>IVE |
| 6 | 3 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>3 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>PUSH PLATE 8200 X 4 X 16 - US 32D<br>PULL PLATE 8302-0 X 4 X 16 - US 32D<br>CLOSER SC81A X RW/PA X SLIM-689<br>WALL STOP WS407-CCV-US32D<br>SILENCERS SR64-GRY | McK<br>IVE<br>IVE<br>FAL<br>IVE<br>IVE |
| 7 | 3 EA.<br>1 EA.<br>1 EA.<br>3 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>OFFICE LOCKSET T511 X D X 23981137 X 5164 X 1 3/4 - 626<br>CLOSER SC81A X RW/PA X SLIM-689 (DOOR 11 ONLY)<br>WALL STOP WS407-CCV-US 32D<br>SILENCERS SR64-GRY | McK<br>FAL<br>FAL<br>IVE<br>IVE |
| 8 | 3 EA.<br>1 EA.<br>1 EA.<br>1 EA.<br>3 EA. | HINGES MPB79 4 1/2 X 4 1/2 NRP - 26D<br>PRIVACY LOCKSET T301S X D X 23981137 X 5164 X 1 3/4 - 626<br>CLOSER SC81A X RW/PA X SLIM-689<br>WALL STOP WS407-CCV-US-32D<br>SILENCERS SR64-GRY | McK<br>FAL<br>FAL<br>IVE<br>IVE |
| GABLE FACADE ACCESS PANEL | 1 EA.<br>1 EA.<br>1 EA. | ACCESS PANEL BXTM-36X36-C<br>DUMMY CYLINDER 7160C-26D<br>CYLINDER CORE 1CC7A2 (GREEN CONSTRUCTION CORE)<br>BALANCE OF HARDWARE BY DOOR SUPPLIER | BAB<br>ILC<br>BEST |

# DOOR & WINDOW LEGEND

(###) DOOR TAG - REFER TO DOOR SCHEDULE

(X) WINDOW TAG

DETAIL REFERENCE

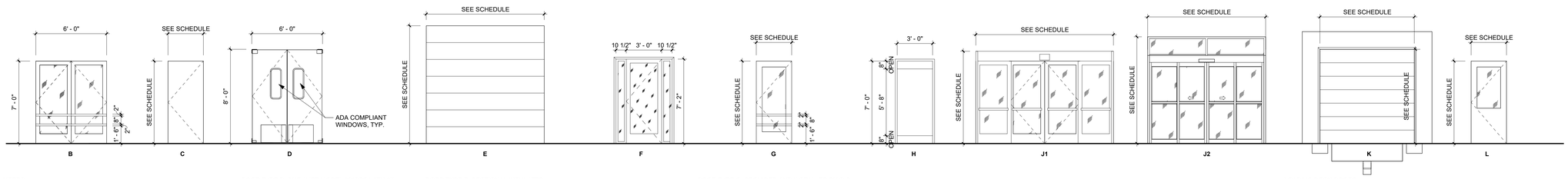
**ABBREVIATIONS:**

CONSTRUCTION / VENEER:
**AL** ANODIZED ALUMINUM DOOR
**HM** HOLLOW METAL (STEEL) DOOR AND FRAME
**SCW** SOLID CORE WOOD DOOR
**TG** TEMPERED GLASS

FINISHES:
**AAC1** ANODIZED ALUMINUM - CLEAR CLASS I
**PT** PAINTED FINISH

GENERAL:
EX., EXIST. = EXISTING DOORS AND/OR FRAMES THAT REMAIN IN PLACE.

# DOOR TYPES




NOTES:
1. ALL DOORS ARE TO BE 1 3/4" THICK UNLESS OTHERWISE NOTED.
2. ALL ALUMINUM EXTERIOR DOORS TO BE CLEAR ANODIZED.
3. PAINT ALL NEW EXTERIOR HOLLOW METAL DOORS AND FRAMES PER DOOR FINISH SCHEDULE.
4. SEE DOOR SCHEDULE FOR DIMENSIONS OF HEIGHTS AND WIDTHS.
5. ALL EXTERIOR HOLLOW METAL DOORS TO BE INSULATED AND GALVANIZED.

DOOR TYPE D: DURULITE MODEL 9612OS WITH (1) SET BLACK BUMPERS AND 12" KICK PLATE ON BOTH SIDES.

TO BE SUPPLIED BY TSC AND INSTALLED BY GC.

FINISH: FORMICA 845-58 SPECTRUM RED.

DOOR TYPE E: SECTIONAL INSULATED METAL DOOR BY DH PACE

ORDER PER TRACTOR SUPPLY NATIONAL ACCOUNT. SEE VENDOR CONTACT INFORMATION ON A000.

FINISH: FACTORY FINISHED WHITE

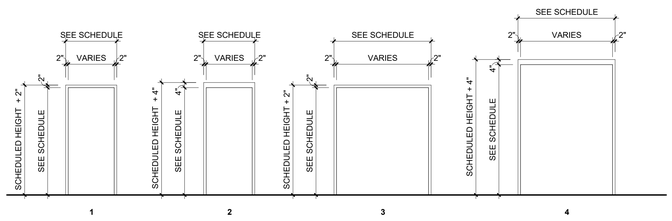
DOOR TYPE G: PROVIDED AND INSTALLED BY G.C. CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEPS. DOORS TO HAVE FLAT THRESHOLD PROVIDED BY DOOR MANUFACTURER. W/2 EACH CRASH RAILS ON INSIDE OF EACH DOOR.

AUTOMATIC DOOR OPERATOR PROVIDED BY VENDOR STANLEY; DOOR AND FRAME PROVIDED AND INSTALLED BY G.C. INSTALL GUARD RAILS ON OUTWARD SWING SIDE OF DOORS TO MAINTAIN REQUIRED CLEARANCE.

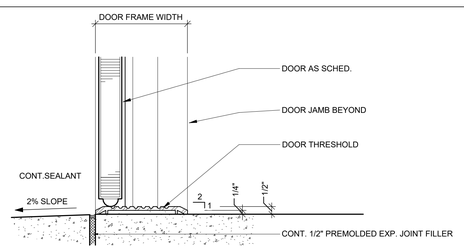
LOADING DOCK DOORS:
REFER TO FLOOR PLAN KEYNOTES FOR REQUIREMENTS ON REPLACEMENT OF DOCK BUMPER, DOCK STEEL PLATE, AND DOCK INSULATION SEAL.

WHERE EXISTING LOADING DOCK DOORS INCREASE IN SIZE, PROVIDE NEW DOCK BUMPER, DOCK STEEL PLATE.

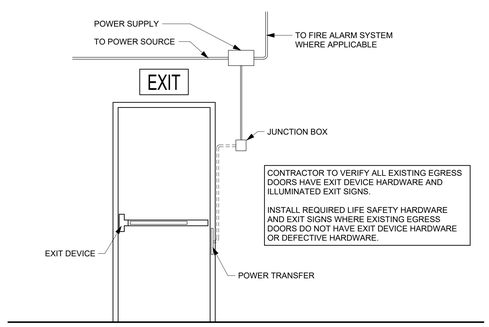
# FRAME TYPES



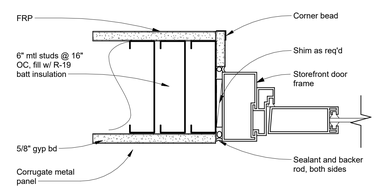

NOTES:
1. ALL NEW HOLLOW METAL FRAMES TO BE CONTINUOUS WELDED AND GROUNDED.
2. FRAMES SHALL MEET REQUIRED RATINGS SHOWN SPECIFIED AND REQUIRED BY GOVERNING AUTHORITIES.



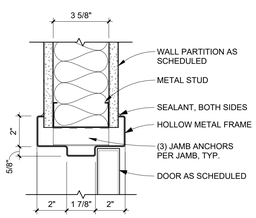

**6 EXTERIOR DOOR SILL**
3" = 1'-0"



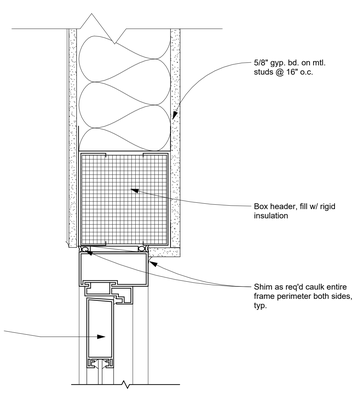

**2 EGRESS DOOR DETAIL**
1/2" = 1'-0"




**3 PETWASH STOREFRONT JAMB DETAIL**
3" = 1'-0"




**1 HEAD/ JAMB DTL. @ INTERIOR HM DOOR**
3" = 1'-0"




**4 PETWASH DOOR HEAD DETAIL**
3" = 1'-0"

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Kyle Wojciechowski
214-766-3410

Architect:
Contact: Dan Marta
469-455-1532


TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

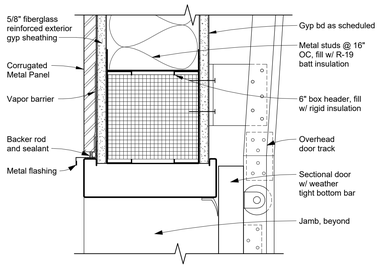
| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| 2 | Revision 3 | 2025 xx xx |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

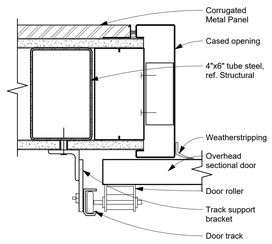
COPYRIGHT PARKWAY C&A, LP ©2025

DOOR & WINDOW SCHEDULES

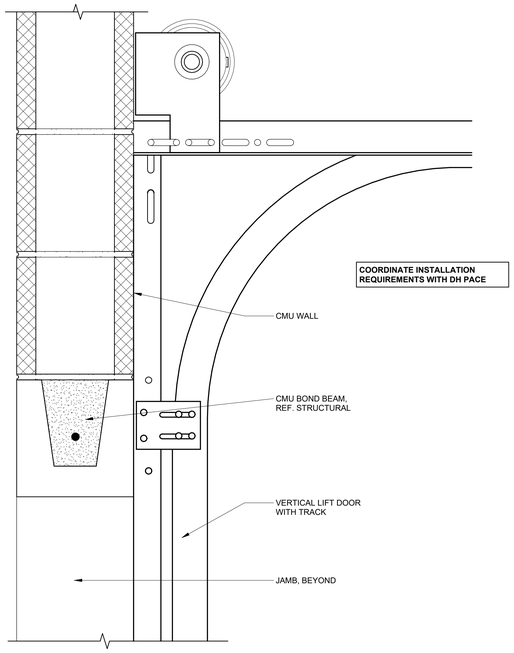
A5.01
B



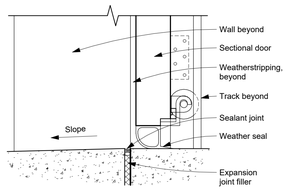

**7 Infilled Wall_Sectional Door Head**
3" = 1'-0"



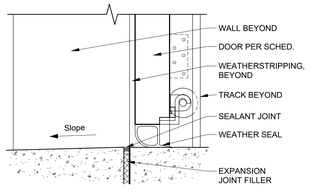

**6 Infilled Wall_Sectional Door Jamb**
3" = 1'-0"



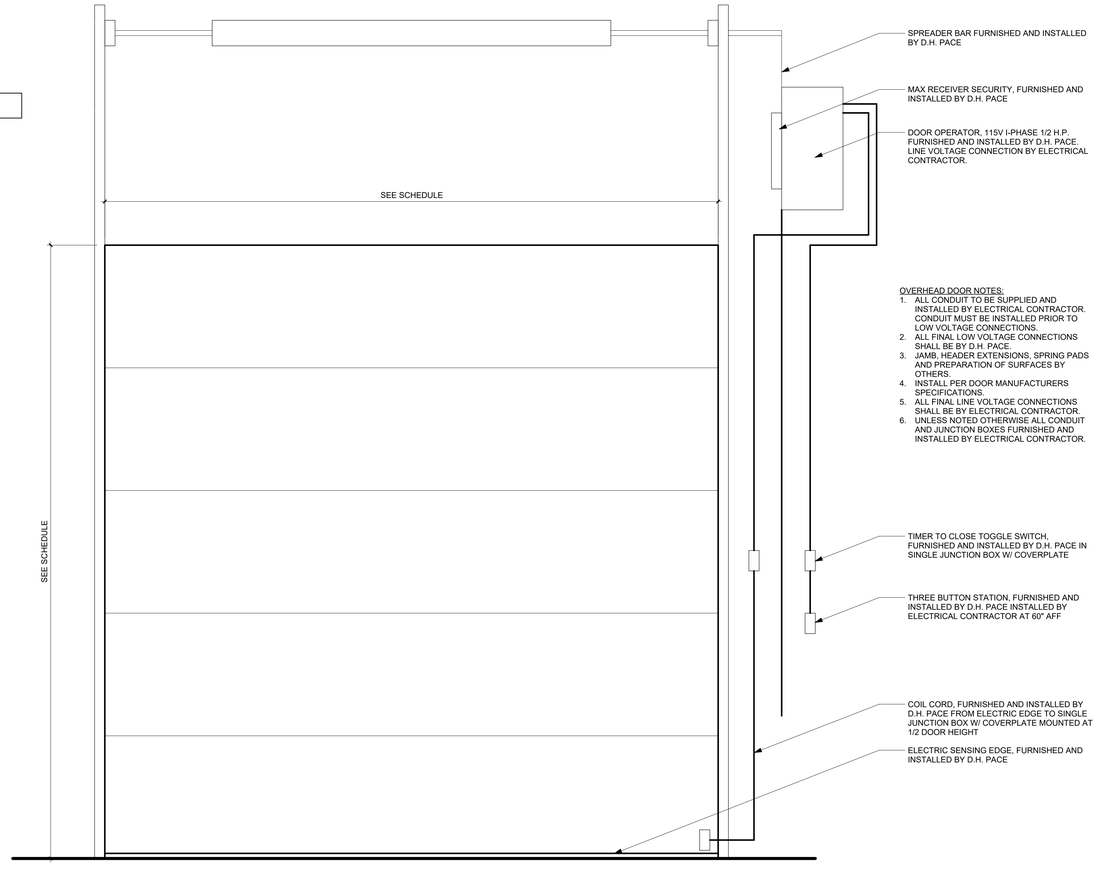

**4 TYPICAL HEADER AT OVERHEAD DOOR**
3" = 1'-0"




**5 Infilled Wall_Sectional Door Sill**
3" = 1'-0"




**2 OVERHEAD SECTIONAL DOOR SILL**
3" = 1'-0"




**1 OVERHEAD DOOR ELEVATION**
1" = 1'-0"

CONSTRUCTION • ARCHITECTURE

PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:**
Contact: Kyle Wojciechowski
214-766-3410

**Architect:**
Contact: Dan Marta
469-455-1532

TRACTOR SUPPLY CO.

# TSC Store # 3178

465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

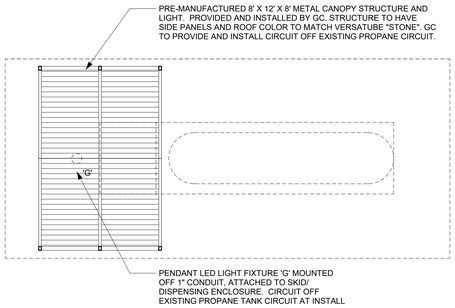
| NO | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

OVERHEAD DOOR DETAILS

A5.02

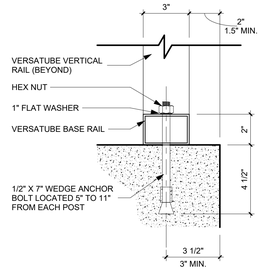



## 8 PROPANE TANK RCP
1/4" = 1'-0"

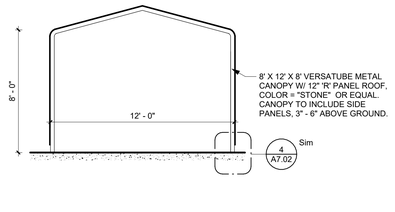
TABLE 6109.12 SEPARATION FROM EXPOSURES OF LP-GAS CONTAINERS AWAITING USE, RESALE OR EXCHANGE STORED OUTSIDE OF BUILDINGS

**MINIMUM SEPARATION DISTANCE FROM STORED LP-GAS CYLINDERS TO (FEET)**

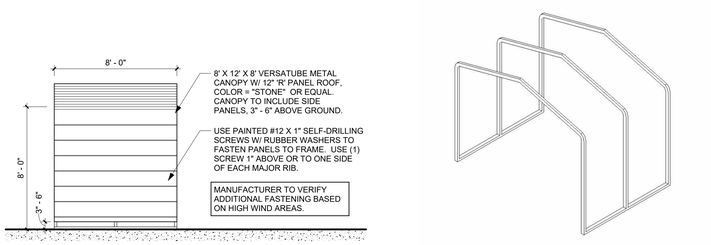
| QUANTITY OF LP-GAS STORED (POUNDS) | NEAREST IMPORTANT BUILDING OR GROUP OF BUILDINGS OR LINE OF ADJACENT PROPERTY THAT MAY BE BUILT UPON | LINE OF ADJOINING PROPERTY OCCUPIED BY SCHOOLS PLACES OF RELIGIOUS WORSHIP HOSPITALS ATHLETIC FIELDS OR OTHER POINTS OF PUBLIC GATHERING BUSY THOROUGHFARES OR SIDEWALKS | LP GAS DISPENSING STATION | DOORWAY OR OPENING TO A BUILDING WITH TWO OR MORE MEANS OF EGRESS | DOORWAY OR OPENING TO A BUILDING WITH ONE MEANS OF EGRESS | COMBUSTIBL E MATERIALS | MOTOR VEHICLE FUEL DISPENSER |
|---|---|---|---|---|---|---|---|
| 720 OR LESS | 0 FEET | 0 FEET | 5 FEET | 5 FEET | 10 FEET | 10 FEET | 20 FEET |
| 721 - 2,500 | 0 FEET | 10 FEET | 10 FEET | 5 FEET | 10 FEET | 10 FEET | 20 FEET |
| 2,501 - 6,000 | 10 FEET | 10 FEET | 10 FEET | 10 FEET | 10 FEET | 10 FEET | 20 FEET |
| 6,001 - 10,000 | 20 FEET | 20 FEET | 20 FEET | 20 FEET | 20 FEET | 10 FEET | 20 FEET |
| OVER 10,000 | 25 FEET | 25 FEET | 25 FEET | 25 FEET | 25 FEET | 10 FEET | 20 FEET |



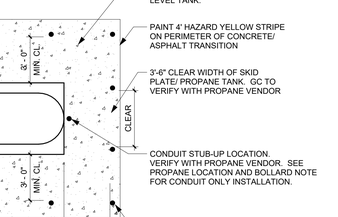

## 4 PROPANE CANOPY ATTACHMENT DTL.
3" = 1'-0"




## 5 PROPANE CANOPY FRONT/ BACK ELEVATION
1/4" = 1'-0"




## 1 PROPANE TANK FLOOR PLAN
1/4" = 1'-0"




## 6 PROPANE CANOPY SIDE ELEVATION
1/4" = 1'-0"

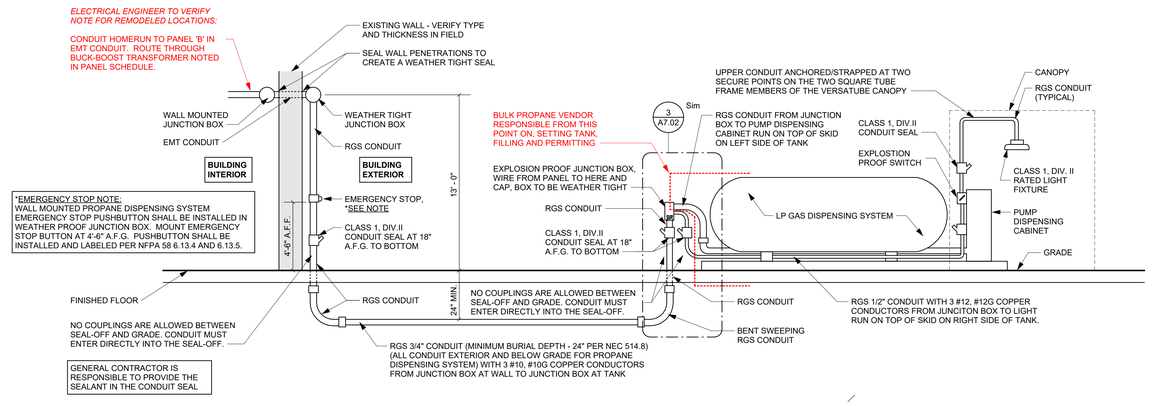



## 7 PROPANE CANOPY FRAME
1/4" = 1'-0"

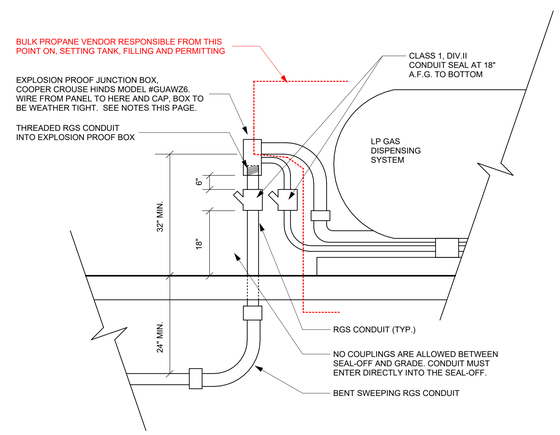
NOTES:
- PRE-MANUFACTURED METAL CANOPY DESIGN BASED ON VERSATUBE BUILDING SYSTEMS OR APPROVED EQUAL. MANUFACTURER TO PROVIDE CERTIFIED STAMPED DRAWINGS AND CALCULATIONS FOR DEFERRED SUBMITTAL TO CITY WHEN REQUIRED.
- PROPANE TANK TO HAVE 15'-0" CLEARANCE FROM RUNNING VEHICLES, SEE NFPA 58, TYP.
- BOLLARDS MUST ALSO BE 36" CLEAR OF ALL FENCES AND GATES, TYP.

PROPANE TANK LOCATION TO COMPLY WITH NFPA STANDARDS AND GUIDELINES. CONTRACTOR TO VERIFY COMPLIANCE WITH AMERIGAS PRIOR TO INSTALLATION.

PROPANE CANOPY ROOF CANNOT COVER ANY PART OF TANK.




## 2 PROPANE DISPENSING SYSTEM DETAIL
12" = 1'-0"




## 3 ENLARGED PROPANE CONNECTION DETAIL
12" = 1'-0"

# LP - GAS CODE REQUIREMENTS

STORAGE, HANDLING, AND TRANSPORTAION OF LIQUEFIED PETROLEUM GAS (LP-GAS) AND THE INSTALLATION OF LP-GAS EQUIPMENT PERTINENT TO SYSTEMS FOR SUCH USES SHALL COMPLY WITH THE INTERNATIONAL FIRE CODE, INTERNATIONAL FUEL GAS CODE, AND NFPA 58.

DISTRIBUTORS SHALL NOT FILL AN LP-GAS CONTAINTER FOR WHICH A PERMIT IS REQUIRED UNLESS A PERMIT FOR INSTALLATION HAS BEEN ISSUED FOR THAT LOCATION BY THE FIRE CODE OFFICIAL.

6104.2 MAXIMUM CAPACITY WITHIN ESTABLISHED LIMITS.
WITHIN THE LIMITES ESTABLISHED BY LAW RESTRCTING THE STORAGE OF LP-GAS FOR THE PROTECTION OF HEAVILY POPULATED OR CONGESTED AREAS, THE AGGREGATE CAPACITY OF ANY ONE INSTALLATION SHALL NOT EXCEED A WATER CAPACITY OF 2,000 GALLONS.

6014.3 CONTAINER LOCATION.
LP-GAS CONTAINERS SHALL BE LOCATED WITH RESPECT TO BUILDINGS, PUBLIC WAYS AND LOT LINES OF ADJOINING PROPERTY THAT CAN BE BUILT UPON, IN ACCORDANCE WITH TABLE 1604.3.

| LP-GAS CONTAINER CAPACITY (WATER GALLONS) | MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS AND BUILDINGS, PUBLIC WAYS OR LOT LINES FOR ABOVE-GROUND LP-GAS CONTAINERS[b] | MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS (FEET) |
|---|---|---|
| LESS THAN 125 | 5 FEET | NONE |
| 125 TO 250 | 10 FEET | NONE |
| 251 TO 500 | 10 FEET | 3 FEET |
| 501 TO 2,000 | 25 FEET | 3 FEET |

6104.3.2 SPECIAL HAZARDS.
LP-GAS CONTAINERS SHALL BE LOCATED WITH RESPECT TO SPECIAL HAZARDS INCLUDING, BUT NOT LIMITED TO, ABOVE-GROUND FLAMMABLE OR COMBUSTIBLE LIQUID TANKS, OXYGEN OR GASEOUS HYDROGEN CONTAINERS, FLOODING PR ELECTRIC POWER LINES AS SPECIFIED IN SECTION 6.4.4. OF NFPA 58.

6107.2 SMOKING AND OTHER SOURCES OF IGNITION.
"NO SMOKING" SIGNS COMPLYING WITH SECTION 310 SHALL BE POSTED WHERE REQUIRED BY THE FIRE CODE OFFICIAL. SMOKING WITHIN 25 FEET OF A POINT OF TRANSFER WHILE FILLING OPERATIONS ARE IN PROGRESS AT LP-GAS CONTAINERS OR VEHICLES, SHALL BE PROHIBITED.

*(CONTRACTOR TO VERIFY IF ADDITIONAL "NO SMOKING" SIGNAGE REQUIRED ONSITE. COORDINATE WITH TSC PROJECT MANAGER AND AMERIGAS VENDOR)*

6107.3 CLEARANCE TO COMBUSTIBLES.
WEEDS, GRASS, BRUSH, TRASH AND OTHER COMBUSTIBLE MATERIALS SHALL BE KEPT NOT LESS THAN 10 FEET FRO LP-GAS TANKS OR CONTAINERS.

6017.4 PROTECTING CONTAINERS FROM VEHICLES.
WHERE EXPOSED TO VEHICULAR DAMAGE DUE TO PROXIMITY TO ALLEYS, DRIVEWAYS, OR PARKING AREAS, LP-GAS CONTAINERS SHALL BE PROTECTED

A PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WITHIN____ FEET OF THE LP-GAS CONTAINER WITH A MINIMUM CAPACITY OF DRY CHEMICAL WITH AN A:B:C RATING

TABLE 6109.13 PROTECTION OF CONTAINERS.
LP-GAS CONTAINERS SHALL BE STORED WITHIN A SUITABLE ENCLOSURE OR OTHERWISE PROTECTED AGAINST TAMPERING AND VEHICLE IMPACT PROTECTION SHALL BE PROVIDED.

SHALL BE PROTECTED BY AN ENCLOSURE WITH AT LEAST A 6 FOOT HIGH INDUSTRIAL TYPE FENCE UNLESS OTHERWISE ADEQUATELY PROTECTED THERE SHALL BE AT LEAST TWO MEANS OF EMERGENCY ACCESS FROM THE FENCED OR OTHER ENCLOSURE. CLEARANCE SHALL BE PROVIDED TO ALLOW MAINTENANCE TO BE PERFORMED AND A CLEARANCE OF AT LEAST THREE FEET SHALL BE PROVIDED TO ALLOW EMERGENCY ACCESS TO THE REQUIRED MEANS OF EGRESS.

EXCEPTION: IF A FENCED OR OTHERWISE ENCLOSED AREA IS NOT OVER 100 FT$^2$ IN AREA, THE POINT OF TRANSFER IS WITHIN 3 FT. OF A GATE, AND CONTAINERS BEING FILLED ARE NOT LOCATED WITHIN THE ENCLOSURE, A SECOND GATE SHALL NOT BE REQUIRED.

VEHICLE IMPACT PROTECTION SHALL BE PROTECTED WITH 4" DIAMETER, 48" ABOVE GRADE, 36" BELOW GRADE, SCHEDULE 40 BLACK IRON BOLLARDS FILLED WITH CONCRETE AND PAINT SAFETY YELLOW. SEE PLAN FOR TYPICAL LAYOUT. SPACING SHALL BE 3'-0" MIN. CLEAR AND 4'-0" O.C. MAXIMUM.

EXCEPTION: VEHICLE IMPACT PROTECTION SHALL NOT BE REQUIRED FOR PROTECTION OF LP-GAS CONTAINERS WHERE THE CONTAINERS ARE KEPT IN LOCKABLE, VENTILATED CABINETS OF METAL CONSTRUCTION.

# PROPANE RESPONSIBILITY NOTES:

IF PROPANE TANK IS DELIVERED PRIOR TO FIXTURE DATE:
1. GENERAL CONTRACTOR RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
2. GENERAL CONRACTOR IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
3. AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
4. AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.

IF PROPANE TANK IS DELIVERED AFTER FIXTURE DATE:
1. GENERAL CONTRACTOR RESPONSIBLE FOR INFRASTRUCTURE RELATED TO PROPANE TANK INSTALLATION.
2. AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR ELECTRICAL PERMITTING AND FINAL CONNECTION TO PUMP DISPENSING CONTROL PANEL.
3. AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR GAS PERMITTING OF THE TANK.
4. AMERIGAS OR OTHER SPECIFIED PROPANE PROVIDER IS RESPONSIBLE FOR INSTALLATION AND FINAL GAS CONNECTION OF THE TANK.

PROPANE LOCATION AND BOLLARD NOTES:
1. IF THERE IS NOT ENOUGH SPACE CLEAR FROM THE BUILDING, LOCATE TANK PER TSC PROJECT MANAGER. COMPLY WITH ALL CODE REQUIRED CLEARANCES FROM BUILDINGS, PROPERTY LINES, AND VEHICLE DRIVE AISLES AND PARKINGS SPACES.
2. FOR CONDUIT ONLY INSTALLATION (PROPANE TANK INSTALLED AT A LATER DATE) PROVIDE:
   - BOLLARD COVER (GLOBAL INDUSTRIAL MODEL WG652899M)
   - (4) BOLLARD COVER ANCHOR BOLTS (GLOBAL INDUSTRIAL WG652901) OVER CONDUIT STUB-UP. INSTALL EXPLOSION PROOF JUNCTION BOX VERTCIALLY TO INSURE BOLLARD COVER FIT.

NOTE:
GENERAL CONTRACTOR TO CONTACT EVERON FOR PROPANE TANK POWER-OPERATED DISPENSING DEVICE FOR LP-GAS CUT SHEET PDF DOCUMENT.
GENERAL CONTRACTOR TO VERIFY LOCATION OF PROPANE TANK AND CONDUIT STUB-UP WITH THE TSC PROJECT MANAGER PRIOR TO CONDUIT INSTALLATION.

1. CONDUIT FROM BUILDING TO DISPENSING SYSTEM SHALL BE ROUTED MINIMUM 24" BELOW GRADE PER NEC ARTICLE 514.8.
2. ALL EQIOPMENT LOCATED WITHIN FIVE FEET OF TANK SHALL BE RATED FOR USE IN CLASS, 1, DIVISION 1 HAZARDOUS LOCATIONS.
3. ALL EQUIPMENT LOCATED BETWEEN FIVE FEET OF TANK AND 20 FEET OF TANK SHALL BE RATED FOR USE IN CLASS 1, DIVISION 2 HAZARDOUS LOCAITONS.
4. ALL CONDUIT SHALL BE RGS (RIGID GALVANIZED STEEL). NO MC OR BLACK IRON PERMITTED. ALL FITTINGS ON RGS CONDUIT SHALL BE THREADES.
5. CONDUIT SEALS SHALL BE INSTALLED ON ALL CONDUITS THAT PASS INTO OR THROUGH THE CLASS 1, DIVISION 1 OR 2 HAZARDOUS BOUNDARIES WITHIN TEN FEET AFTER PENETRATION ABOVE GRADE ON EACH END OF CONDUIT PER NEC 514.9.
6. PROVIDE AND INSTALL (1) EXPLOSION PROOF JUNCTION BOX AT THE DISPENSING UNIT. JUNCTION BOX TO BE COPPER CROUSE HINDS MODEL #GUAWZ6. INSTALL SUCH THAT BOX IS IN A VERITCAL POSITION SO THE MAXIMUM WIDTH IS 4-1/4". COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PROPANE DISPENSING VENDOR PRIOR TO ROUGH-IN. COORDINATE LOCATION OF CONDUIT ENTRIES WITH PROPANE DISPENSING VENDOR PRIOR TO ORDERING.

CONSTRUCTION • ARCHITECTURE

PKWY
PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
Project Manager: Contact: Kyle Wojciechowski 214-766-3410
Architect: Contact: Dan Marta 469-455-1532

TRACTOR SUPPLY Co. TSC

TSC Store # 3178
465 Coors Blvd NW
Albuquerque NM

**Owner:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: KAREN CORMIER-SOUTHARDS
PHONE: 615-714-5205

**Architect:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT: DAN MARTA
PHONE: 972-221-1979

**MEP Engineer:**
JSE ENGINEERING
6201 W PLANO WAY PKWY STE 250
PLANO, TX 75093
CONTACT: COREY HEWITT
PHONE: 469-385-1616

**Structural Engineer:**
DCI ENGINEERS
707 W 2ND AVE
SPOKANE, WA 99201
CONTACT: CRAIG CROWLEY
PHONE: 509-455-4448

STATE OF NEW MEXICO
CHRISTOPHER A. RUTLEDGE
NO. 6738
REGISTERED ARCHITECT

Architect: Chris A. Rutledge

| NO | DESCRIPTION | DATE |
|---|---|---|
| B | CD Set | 2025 08 29 |
| A | ISSUE FOR PERMIT | 2025 05 09 |

Drawn by: MRH
Checked by: DM
Project Number: 94-250037

COPYRIGHT PARKWAY C&A, LP ©2025

LP-GAS PLAN AND DETAILS

A7.02

## DEMOLITION, ADDITIONS & RENOVATION NOTES

1. FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO REMOVE AND/OR MAKE-SAFE THE EXISTING EQUIPMENT, PIPE, FITTINGS, VALVES AND APPURTENANCES INDICATED ON THE DRAWINGS, AND NOT REQUIRED FOR THE PROPER OPERATION OF THE NEW HVAC SYSTEM. REMOVAL WILL BE CONSISTENT WITH THE FINAL CONFIGURATION OF THE NEW SYSTEMS AS INDICATED AND AS REQUIRED BY THE OWNER/ARCHITECT. THE EQUIPMENT AND PIPING IDENTIFIED SHALL BE REMOVED FROM THEIR PRESENT LOCATIONS AND SHALL BE REMOVED FROM THE SITE OR STORED AS SPECIFIED HEREINAFTER.
2. BEFORE REMOVAL OF ANY ELECTRICALLY OPERATED EQUIPMENT, COORDINATE CAREFULLY TO ASSURE THAT POWER AND CONTROL WIRING HAS BEEN DISCONNECTED AND/OR LOCKED OUT, TAGGED OUT AND MADE-SAFE.
3. IT SHOULD BE NOTED THAT SOME SYSTEMS ARE TO REMAIN. IF ANY OF THESE SYSTEMS ARE DAMAGED DURING THE PROGRESS OF CONSTRUCTION OR DEMOLITION, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
4. PRIOR TO THE ORDERING OR PURCHASING OF ANY EQUIPMENT OR MATERIALS, OR THE LAYOUT OR INSTALLATION OF ANY NEW WORK, THE CONTRACTOR SHALL EXAMINE THE PREMISES AND VERIFY ANY AND ALL OF THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE, OR THAT WILL IN ANY MANNER AFFECT THE WORK UNDER THIS CONTRACT.
5. UNLESS SPECIFICALLY NOTED TO BE REMOVED, EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. IS TO REMAIN. ANY EQUIPMENT, PIPING OR APPURTENANCES REMOVED WHICH ARE NECESSARY FOR THE OPERATION OF THE EXISTING SYSTEM SHALL BE REPLACED TO THE SATISFACTION OF THE ARCHITECT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
6. WHEN ENCOUNTERED IN THE COURSE OF THE WORK, PROTECT, BRACE, AND SUPPORT EXISTING, ACTIVE SERVICES AS NECESSARY FOR PROPER EXECUTION OF THE WORK. RELOCATE EXISTING ACTIVE SERVICES ENCOUNTERED AS NECESSARY OR AS SHOWN ON THE CONTRACT DOCUMENTS. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN. NOTIFY ALL UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION PRIOR TO MODIFYING SERVICES.
7. WHERE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT OR AT SUCH TIMES AS APPROVED BY THE OWNER WHICH WILL CAUSE THE LEAST INTERFERENCE WITH SCHEDULED OPERATIONS. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE CONNECTION TO THE EXISTING WORK.
8. ALL PIPE, FITTINGS, TUBING, INSULATION, HANGERS AND SUPPORTS, ETC. THAT ARE DEMOLISHED OR DAMAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UPON REMOVAL. THE MATERIALS SHALL BE REMOVED IMMEDIATELY FROM THE SITE AND SHALL NOT BE REUSED.
9. ANY EXISTING PROPERTY DAMAGED BY THE CONTRACTOR WHILE PERFORMING ANY WORK SHALL BE REPLACED WITH NEW MATERIALS TO MATCH EXISTING CONDITIONS; HOWEVER, ANY EXISTING INSULATION THAT IS DAMAGED SHALL BE REPLACED AS SPECIFIED FOR NEW INSULATION.
10. WHEREVER PIPING IS REMOVED FOR DISPOSITION, ADJACENT PIPE AND HEADERS THAT ARE TO REMAIN IN SERVICE SHALL BE BLANKED OFF OR PLUGGED AND THEN ANCHORED IN AN APPROVED MANNER. PIPING PASSING THROUGH FLOORS THAT IS TO BE REMOVED SHALL BE CUT OR GROUND FLUSH WITH THE FLOOR AND FILLED WITH GROUT FLUSH WITH ADJACENT FLOOR.
11. EQUIPMENT TO BE RETAINED BY THE OWNER SHALL BE CAREFULLY REMOVED FROM THE PRESENT LOCATION, CLEANED, PACKAGED AND IMMEDIATELY STORED AT A PLACE ON-SITE AS DESIGNATED BY THE OWNER.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AGAINST DAMAGING THE MATERIAL AND EQUIPMENT TO BE STORED. THE CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM HIS OPERATIONS, AS DIRECTED BY AND TO THE SATISFACTION OF THE ARCHITECT. ITEMIZED LISTS OF MATERIALS REMOVED AND STORED SHALL BE RECORDED AND SUBMITTED TO THE OWNER AT THE COMPLETION OF CONSTRUCTION. THE LIST SHALL INCLUDE A PHYSICAL DESCRIPTION OF ALL ITEMS, HOW THEY ARE PACKAGED AND WHERE THEY ARE STORED.
13. WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATIONS TO EXISTING EQUIPMENT OR SYSTEMS, THE EXISTING EQUIPMENT OR SYSTEMS SHALL BE RESTORED TO THEIR ORIGINAL AND OPERATING CONDITION.
14. WHERE PIPES, CONTROL DEVICES AND WIRING WHICH ARE TO REMAIN IN SERVICE, BUT ARE DISCONNECTED FOR THE REMOVAL OR RELOCATION OF EQUIPMENT OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RECONNECTED.

## PLUMBING MATERIALS

1. DOMESTIC WATER SYSTEM BRANCH PIPING, UNDERGROUND, 3 INCHES AND SMALLER, SUITABLE FOR A WORKING PRESSURE OF 125 PSIG:
   A. COPPER TYPE K, SOFT ANNEALED, CONFORMING TO FEDERAL SPECIFICATION WWT-799. JOINTS AND FITTINGS ARE NOT PERMITTED BELOW FLOOR SLABS WITH COPPER TYPE K SOFT ANNEALED PIPE.
   B. MULTI-LAYER CPVC OVER ALUMINUM COMPOSITE MIDDLE LAYER BENDABLE PIPING, ASTM D2846, SOLVENT CEMENT JOINTS AND FITTINGS, ASTM F493. NOVEON FLOWGUARD GOLD BENDABLE.
2. DOMESTIC WATER SYSTEM BRANCH PIPING, UNDERGROUND, 3 INCHES AND LARGER, SUITABLE FOR A WORKING PRESSURE OF 125 PSIG:
   A. DUCTILE IRON THICKNESS CLASS 51 FOR 3 INCH AND 4 INCH SIZE THICKNESS, CLASS 50 FOR 6 INCHES AND LARGER, ANSI A21.51, ASTM A746 WITH BITUMINOUS COATING OUTSIDE AND CEMENT MORTAR LINING INSIDE. DUCTILE IRON MECHANICAL OR PUSH-ON JOINTS AND FITTINGS ANSI/AWWA C110/A21.10.
   B. MAINS WHERE PRESSURE IS NO GREATER THAN 100 PSI: POLYVINYL CHLORIDE (PVC), 160 PSI WATER PIPING, ASTM D2241, SDR26 WITH MECHANICAL OR PUSH-ON JOINTS WITH NEOPRENE "O" RINGS, ASTM D3139
3. DOMESTIC COLD WATER AND HOT WATER SYSTEMS ABOVE GROUND:
   A. TYPE "L" HARD DRAWN COPPER TUBING PER ASTM B-88 AND FEDERAL SPECIFICATION WWT-799. PIPING, FITTINGS, AND JOINTS TO COMPLY WITH NSF 61-G, NSF 61, AND NSF 372. FITTINGS: SOLDER OR BRAZED JOINT COPPER FITTINGS PER B16.18 OR 16.22. JOINTS: SOLDERED OR BRAZED JOINTS WITH LEAD-FREE BRAZING FILLER MATERIALS AND COMPATIBLE ALLOYS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) COPPER TUBE SIZE (CTS), ASTM D-1784 AND D-2846, SDR11, RATED FOR 100 PSI AT 180 DEGREES F. PIPING, FITTINGS, AND JOINTS TO COMPLY WITH NSF 14, NSF 61-G, NSF 61, AND NSF 372. JOINTS: SOLVENT CEMENT AND PRIMER FOR CPVC PIPING, ASTM F-493, LOW VOC.
   C. FOR PIPE SIZES 3"AND SMALLER: HOT AND COLD-WATER SYSTEMS WITHIN LIVING UNITS: CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING, PEX-A GRADE, ASTM F-876; ASTM F-877 (100 PSI AT 180 DEGREES F), BRASS, COPPER OR ENGINEERED LASTIC (EP) FITTINGS; ASTM F-1960. PIPING, FITTINGS, AND JOINTS TO COMPLY WITH NSF 61-G, NSF 61, AND NSF 372. FITTINGS/JOINTS: COLD EXPANSION FITTING WITH PEX REINFORCING RINGS, ASTM F-1960.
4. SANITARY, WASTE AND VENT SYSTEMS, ABOVE AND BELOW GROUND:
   A. SCHEDULE 40 SOLID WALL DWV PVC PIPE, ASTM D1785. INSTALL PER ASTM D2321. FITTINGS: SCHEDULE 40 DWV PVC, SOCKET TYPE FITTINGS, ASTM D2665. JOINTS: SOLVENT JOINTS FOR PVC, ASTM D2564.
5. GAS PIPING UNDERGROUND:
   A. SCHEDULE 40 BLACK STEEL PIPE, ASTM A53 WITH POLYETHYLENE JACKET, WELDED JOINTS AND STANDARD WEIGHT BLACK STEEL BUTT WELD OR SOCKET WELD FITTINGS, ASTM A243 OR PRESS-CONNECT FITTINGS ANSI LC-4/CSA 6.32 (VIEGA MEGAPRESSG).
   B. POLYETHYLENE PIPE, ASTM 2513, WITH HEAT FUSION JOINTS AND FITTINGS, ASTM D2513.
      1. TRACER. A YELLOW INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
6. GAS PIPING ABOVE GROUND:
   A. SCHEDULE 40 BLACK STEEL PIPE, ASTM A53 WITH WELDED JOINTS AND STANDARD WEIGHT BLACK STEEL BUTT WELD FITTINGS, ASTM A234 OR SOCKET WELD FITTINGS, ASTM A105.
   B. SCHEDULE 40 BLACK STEEL PIPE, ASTM A53, WITH SCREWED JOINTS AND 150 POUND THREADED MALLEABLE IRON FITTINGS, ASME B.16.3.
4. ALL COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH 1/2" THICK INSULATION ON PIPING.

   PIPING INSULATION SHALL COMPLY WITH IECC FOR CONDUCTIVITY AND MEAN RATING TEMPERATURE, HAVE A VAPOR BARRIER JACKET, AND A SELF-SEALING ALL SERVICE JACKET. ALL ABOVE GRADE HOT AND COLD DOMESTIC WATER, AND HOT WATER RECIRCULATION PIPING SHALL BE INSULATED FROM HEAT SOURCE TO INDIVIDUAL PLUMBING FIXTURES. ALL HOT WATER AND HOT WATER RECIRCULATION PIPING ABOVE GRADE 1-1/4 INCH AND SMALLER SHALL BE INSULATED WITH 1.5 INCH NOMINAL THICKNESS PIPE INSULATION AND PIPING 1-1/2 INCH AND LARGER SHALL BE INSULATED WITH 2 INCH NOMINAL THICKNESS PIPE INSULATION. ALL COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH 1/2 INCH THICKNESS INSULATION ON PIPING SMALLER THAN 1 INCH AND 1 INCH THICK INSULATION ON PIPING 2 1/2 INCH AND LARGER. ALL HORIZONTAL STORM DRAIN PIPING AND ROOF DRAIN BODIES SHALL BE INSULATED WITH 1 INCH THICK FIBERGLASS. PVC SANITARY AND STORM DRAINAGE PIPING ABOVE AMENITY AND PUBLIC SPACES, GUESTROOMS, DWELLING UNIT BEDROOMS, AND LIVING SPACES SHALL BE PROVIDED WITH NETWELL NETLAG ACOUSTICAL INSULATION. MATERIALS AS MANUFACTURED BY ARMSTRONG, CERTAINTEED, KNAUF OR EQUAL. CLOSED CELL ELASTOMERIC PIPE INSULATION MANUFACTURER BY ARMACELL IS AN APPROVED EQUAL.

## PLUMBING LEGEND

| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|---|---|
| — | A/C | ABOVE CEILING |
| — | AD | AREA DRAIN |
| — | AFF | ABOVE FINISHED FLOOR |
| — | AFG | ABOVE FINISHED GRADE |
| — | A/F | ABOVE FLOOR |
| — | A/P | ACCESS PANEL |
| — | B/F | BELOW FLOOR |
| — | B/G | BELOW GRADE |
| — | BFP | BACKFLOW PREVENTOR |
| — | BV | BALANCING VALVE |
| — | CV | CHECK VALVE |
| — | CO | CLEANOUT PLUG |
| — CA — | CA | COMPRESSED AIR |
| — CD — | CD | CONDENSATE DRAIN |
| — CW — | CW | COLD WATER PIPING |
| — CWV — | CWV | COMBINATION WASTE & VENT |
| — | DCO | DOUBLE (2-WAY) CLEANOUT |
| — | DSN | DOWNSPOUT NOZZLE |
| — | ERD | EMERGENCY ROOF DRAIN |
| — ERL — | ERL | EMERGENCY RAIN LEADER |
| — | FCO | FLOOR CLEANOUT |
| — | FD | FLOOR DRAIN |
| — | FS | FLOOR SINK |
| — G — | G | GAS PIPING - LOW PRESSURE |
| — MG — | MG | GAS PIPING - MEDIUM PRESSURE |
| — GW — | GW | GREASE WASTE PIPING |
| — | HC | HANDICAPPED |
| — | HT | HEAT TRACED PIPING |
| — HZ — | HZ | HIGH ZONE (BOOSTED) WATER PIPING |
| — | HB/NFHB | HOSE BIBB/NON-FREEZE HOSE BIBB |
| — — — | HW | HOT WATER PIPING |
| — — — — | HWR | HOT WATER RETURN PIPING |
| — | HWRP | HOT WATER RETURN PUMP |
| — | HD | HUB DRAIN |
| — LPG — | LPG | LIQUEFIED PETROLEUM GAS |
| — LZ — | LZ | LOW ZONE (STREET PRESSURE) WATER PIPING |
| M | M | METER (WATER/GAS) |
| — | NC | NORMALLY CLOSED |
| — | O/H | OVER HEAD |
| — | --- | PIPING TEE |
| — | DN | PIPING TURNING DOWN |
| — | UP | PIPING TURNING UP |
| — | POC | POINT OF CONNECTION NEW TO EXISTING |
| — | PRV | PRESSURE REDUCING VALVE |
| — PD — | PD | PUMPED DISCHARGE |
| — | --- | P-TRAP |
| — | RPZ | REDUCED PRESSURE BACKFLOW PREVENTOR |
| — | --- | RISER VALVE |
| — | RD | ROOF DRAIN |
| — | --- | SHUTOFF VALVE |
| — S — | S,SAN,W | SOIL, SANITARY, WASTE PIPING (ABOVE GROUND) |
| — S — | S,SAN,W | SOIL, SANITARY, WASTE PIPING (BELOW GROUND) |
| — ST — | ST | STORM DRAINAGE PIPING (ABOVE GROUND) |
| — ST — | ST | STORM DRAINAGE PIPING (BELOW GROUND) |
| — | --- | STRAINER |
| | TMV | THERMOSTATIC MIXING VALVE |
| — | TP | TRAP PRIMER |
| — | U/C | UNDER COUNTER |
| — | --- | UNION |
| — — — | V | VENT PIPING |
| — | VTR | VENT THRU ROOF |
| | WCO | WALL CLEANOUT |
| — | WH/NFWH | WALL HYDRANT/NON-FREEZE WALL HYDRANT |
| — | WSV | WASTE STACK VENT |
| — | WHA | WATER HAMMER ARRESTOR |
| | YCO | YARD CLEANOUT |

## PLUMBING/ELECTRICAL COORDINATION

THE PLUMBING CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL PLUMBING EQUIPMENT (VOLTAGE, PHASE, MCA, MOCP, ETC.) WITH THE ELECTRICAL CONTRACTOR AND THE ELECTRICAL PLANS PRIOR TO SUBMITTING OR ORDERING ANY PLUMBING EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN THE PLUMBING EQUIPMENT ELECTRICAL REQUIREMENTS AND THE ELECTRICAL SERVICE, AS DESIGNED AND PROVIDED, SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR WITH NO ADDITIONS TO THE CONTRACT.

## PLUMBING GENERAL NOTES

1. THE PLUMBING SYSTEMS INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS OF THE 2021 UNIFORM PLUMBING CODE, THE 2015 INTERNATIONAL BUILDING CODE, THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE, STATE AND LOCAL AMENDMENTS, NFPA 54, NFPA 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
3. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON OR BE SUPPORTED FROM CEILING TILES. NON-CORROSIVE HANGERS SHALL BE PROVIDED IN DAMP ENVIRONMENTS, SUCH AS PUMP ROOMS AND POOL EQUIPMENT ROOMS.
4. WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
5. ALL PLUMBING EQUIPMENT, CONDENSATE DRAINAGE, SANITARY, STORM, AND WATER PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE LOCAL AHJ REQUIREMENTS.
6. SANITARY DRAINAGE AND STORM DRAINAGE PIPING SHALL BE SLOPED AS REQUIRED BY CODE. VENT PIPING SHALL BE GRADED BACK TO DRAINAGE PIPE IT SERVES.
7. TRAP PRIMERS ARE TO BE PROVIDED ON ALL FLOOR DRAINS AND HUB DRAINS. TP "A" AUTOMATIC TRAP PRIMERS ARE TO BE PROVIDED IN ALL REQUIRED LOCATIONS. TRAP GUARDS COMPLYING TO ASSE 1072, AS MANUFACTURED BY SURSEAL OR EQUAL, MAY BE USED IN LIEU OF TRAP PRIMERS IF ALLOWABLE BY THE AHJ.
8. PLUMBING PIPING SHALL NOT TO BE INSTALLED IN ELECTRICAL ROOMS, CLOSETS, TELEPHONE ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT PIPING SERVING THAT SPECIFIC ROOM, ELECTRICAL EQUIPMENT, ETC. PER THE NATIONAL ELECTRICAL CODE ARTICLE 110.
9. ROUTING OF PIPING SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. PIPING SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER.
10. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS VALVES, WATER HAMMER ARRESTORS, TRAP PRIMERS, STRAINERS, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
11. LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINTS OF ACCESS.
12. ALL COLD WATER, HOT WATER AND DRAIN PIPING AT HANDICAPPED FIXTURES SHALL BE INSULATED WITH ASME A112.18.9 COMPLIANT INSULATION KITS, PLUMBEREX HANDY SHIELD MAXX INSULATION KITS OR EQUAL.
13. PROVIDE ASSE 1010 COMPLIANT WATER HAMMER ARRESTORS SIZED PER PDI STANDARD WH201 ON ALL DOMESTIC WATER SUPPLIES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, ICE MAKER SUPLIES, PRV STATIONS, AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES. PROVIDE ACCESS PANELS AS REQUIRED. AIR CHAMBERS ARE UNACCEPTABLE.
14. CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT SELECTED FOR THE VOLTAGES SHOWN THEREIN. THE VOLTAGE COORDINATION STATEMENT IS TO BE COMPLETED AND SUBMITTED WITH THE SHOP DRAWING SUBMITTAL. FAILURE TO SUBMIT THE VOLTAGE COORDINATION STATEMENT WILL BE CAUSE FOR REJECTION.
15. ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH ELECTRICAL DRAWINGS.
16. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPED.
17. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER.
18. ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE RATED ASSEMBLIES SHALL BE FIRE STOPPED AS REQUIRED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/SRINK, TREMCO, HILTI, METACAULK, NELSON, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATIONS, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS. T-RATINGS SHALL BE MAINTAINED BY DOUBLE WRAPPING PENETRATIONS 4'-0" ABOVE FLOOR PENETRATIONS WITH A FIRE WRAP. WRAP MUST EQUAL T-RATING.
19. ALL COMPONENTS OF THE DOMESTIC WATER SYSTEM SHALL COMPLY WITH ANSI/NSF 61, NSF 372, AND NSF 61-G LEAD FREE REQUIREMENTS.
20. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AS CONSTRUCTION PROGRESSES. CONTRACTOR SHALL SUBMIT AS-BUILTS TO ARCHITECT/ENGINEER FOR REVIEW AFTER THE FINAL CERTIFICATE OF OCCUPANCY HAS BEEN OBTAINED.
21. CONTRACTOR SHALL PROVIDE SUBMITTALS ON ALL PLUMBING SYSTEM COMPONENTS THAT ARE TO BE INSTALLED.
22. CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH FINAL GRADING TO ASCERTAIN THE CONDITIONS AND MAKE PROVISIONS BEFORE IMPLEMENTING WORK. THE CONTRACTOR'S COST ESTIMATE SHALL COVER ALL NECESSARY LABOR FOR MATERIALS. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR OMISSIONS OR FAULTY WORK OR FOR THE PAYMENT OF ADDITIONAL COMPENSATION.
23. BEFORE BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, THE CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. PROCEED WITH CAUTION SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN BE DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON THE RECORD DRAWINGS.
24. COORDINATE INTERRUPTION OF SERVICES AND UTILITIES WITH THE OWNER OR OWNER'S REPRESENTATIVE, FIRE DEPARTMENT AND UTILITY COMPANIES TO ENSURE MINIMUM SHUTDOWN TIMES THAT ARE ACCEPTABLE TO THE OWNER AND AUTHORITIES.
25. FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, GAUGES, STRAINERS, UNIONS, ETC. FOR EACH PIECE OF EQUIPMENT HAVING PLUMBING CONNECTIONS TO FACILITATE PROPER FUNCTIONING AND SERVICING. DO NOT INSTALL PIPING AT LOCATIONS THAT INTERFERE WITH SERVICE ACCESSIBILITY TO EQUIPMENT.
26. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO INSTALLATION OF FLOOR DRAINS, FLOOR SINKS AND OTHER RECEPTORS. RELOCATION DUE TO MISPLACEMENT SHALL BE AT NO ADDITIONAL COST.
27. CONTRACTOR SHALL NOT ABANDON PLUMBING SYSTEMS IN PLACE, UNLESS SPECIFICALLY NOTED.
28. PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, INCIDENTAL, REASONABLE OR CUSTOMARILY INCLUDED.
29. COORDINATE ALL FLOOR DRAIN, FLOOR SINK, HUB DRAIN, WALL AND FLOOR CLEANOUT LOCATIONS WITH ARCHITECT, OWNER, AND EQUIPMENT VENDOR PRIOR TO INSTALLATION.
30. PROVIDE CHECK VALVES ON THE HOT AND COLD WATER INLETS AT THERMOSTATIC MIXING VALVES.
31. EXTERIOR GAS PIPING SHALL BE GALVANIZED OR PAINTED. REFER TO ARCHITECT FOR COLOR AND TYPE OF PAINT.
32. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET AND SHALL BE EITHER HAND OPERATED OR AUTOMATIC.

## PLUMBING FIXTURE SPECIFICATIONS

| TAG | DESCRIPTION |
|---|---|
| WC-A | WATER CLOSET (ACCESSIBLE, FLOOR MTD., PRESSURE ASSISTED FLUSH TANK, MOTION ACTIVATED): KOHLER HIGHLINE K-3519, 12" ROUGH-IN, 1.0 GPF, WITH SLOAN FLUSHMATE PRESSURE ASSIST, LOW CONSUMPTION, VITREOUS CHINA, 17-1/8" HIGH, ELONGATED BOWL FLUSH TANK WATER CLOSET WITH LEFT HAND TRIP LEVER. PROVIDE BEMIS 1055 SSC ELONGATED TOILET SEAT, KOHLER K-5420 BOLT CAPS. FOR RIGHT HAND TRIP LEVER PROVIDE WITH ALTERNATE TANK CONFIGURATION MODEL K-3519-RA. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CORRECT TANK SELECTION WITH LATEST ARCHITECTURAL DRAWINGS TO ACCOMMODATE ADA ACCESSIBILITY PRIOR TO ORDERING. RETROFIT WITH INTELLI-FLUSH K-100101 WALL SENSOR, POWERED BY FOUR(4) AA BATTERIES, CHROME FINISH. INTELLI-FLUSH SYSTEM MUST BE ORDERED SEPARATELY FROM FLUSHMATE. CONTACT LORI FELTMATE AT FLUSHMATE FOR ORDERING INFORMATION. PH:(248)446-8159 EMAIL: Lori.Feltmate@Flushmate.com |
| WC | WATER CLOSET (FLOOR MTD., PRESSURE ASSISTED FLUSH TANK, MOTION ACTIVATED): KOHLER HIGHLINE K-3519, 12" ROUGH-IN, 1.0 GPF, WITH SLOAN FLUSHMATE PRESSURE ASSIST, LOW CONSUMPTION, VITREOUS CHINA, 17-1/8" HIGH, ELONGATED BOWL FLUSH TANK WATER CLOSET WITH LEFT HAND TRIP LEVER. PROVIDE BEMIS 1055 SSC ELONGATED TOILET SEAT, KHOLER K-5420 BOLT CAPS. FOR RIGHT HAND TRIP LEVER PROVIDE WITH ALTERNATE TANK CONFIGURATION MODEL K-3519-RH. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CORRECT TANK SELECTION WITH LATEST ARCHITECTURAL DRAWINGS TO ACCOMMODATE ADA ACCESSIBILITY PRIOR TO ORDERING. RETROFIT WITH INTELLI-FLUSH K-100101 WALL SENSOR, POWERED BY FOUR(4) AA BATTERIES, CHROME FINISH. INTELLI-FLUSH SYSTEM MUST BE ORDERED SEPARATELY FROM FLUSHMATE. CONTACT LORI FELTMATE AT FLUSHMATE FOR ORDERING INFORMATION. PH:(248)446-8159 EMAIL: Lori.Feltmate@Flushmate.com |
| LAV | LAVATORY (ACCESSIBLE, WALL HUNG, MOTION ACTIVATED): KOHLER KINGSTON WALL-MOUNT K-2005, VITREOUS CHINA LAVATORY WITH A ZURN AQUASENSE BATTERY POWERED Z6915-XL FAUCET, POLISHED CHROME FINISH, KOHLER K-7129-A DRAIN, KOHLER K-8998 P-TRAP AND KOHLER K-23725 CAST IRON CLEANER. MOUNT FIXTURE WITH FROOD RIM 34" AFF. FURNISH AND INSTALL WITH ZURN MODEL ZW3870XLT THERMAL MIXING VALVE FOR MAX. 110°F HOT WATER. |
| BS | BREAKROOM SINK: (SINGLE BOWL, S.S., GOOSENECK): BREAKROOM SINK AND FAUCET SHALL BE FURNISHED BY TRACTOR SUPPLY AND INSTALLED BY CONTRACTOR. PROFLO MODEL PFSR2521553C 21"x15"x5.5" DEEP BOWL 20 GA. STAINLESS STEEL, SELF RIM, AND REAR DECK FAUCET (1.8 GPM) MOUNTING WITH 3 HOLES. COMPLETE WITH PROFLO MODEL PFXC1414MCPLS FAUCET WITH GOOSENECK SPOUT AND METAL LEVER HANDLE, POLISHED CHROME FINISH MCGUIRE 8912 P-TRAP, AND TWO MCGUIRE 2165-CC SUPPLIES WITH STOPS. PROVIDE A TRUEBRO INC., HANDI-LAV-GUARD INSULATION KIT MODEL 102W WITH ACCESSORY 105W. MOUNT FIXTURE WITH FLOOD RIM MAX. 34" AFF. |
| EWC | ELECTRIC WATER COOLER (ACCESSIBLE, MOTION SENSOR, DUAL HEIGHT): MURDOCK MODEL A1721089FUG-BS12-BZD WITH INFRARED SENSOR CONTROL AND WALL MOUNTING BRACKET. 8 GPH, 115/1/60. MOUNT HIGH UNIT AT 42" MAX. FROM FLOOR TO SPOUT OUTLET AND LOW UNIT AT 36" MAXIMUM FROM FLOOR TO SPOUT OUTLET. PROVIDE MCGUIRE 8912 P-TRAP AND MCGUIRE 165 SUPPLY WITH STOP. COORDINATE WITH ELECTRICAL CONTRACTOR TO LOCATE RECEPTACLE BEHIND WATER COOLER CABINET. |
| MS | MOP SINK : MUSTEE MODEL 63M 24"x24" FIBERGLASS MOP SERVICE BASIN. COMPLETE WITH MODEL 63.401 EXTRUDED BUMPER GUARD, CHICAGO MODEL 897-RCF CHROME PLATED SPOUT WITH VACUUM BREAKER, 3/" HOSE THREAD OUTLET, PAIL HOOK. WALL SUPPORT, INTEGRAL STOPS, MODEL 369 2/3¿" METAL LEVER HANDLES AND 36" LENGTH OF THREADED HOSE. FURNISH AND INSTALL T&S MODEL B-0977 THREADED CONTINUOUS PRESSURE VACUUM BREAKER AND DEMA MODEL 68-6 PRESSURE INDICATING TEE ON FAUCET OUTLET FOR HOSE CONNECTION TO BETCO DISPENSER. VACUUM BREAKER TO BE INSTALLED UPSTREAM OF PRESSURE INDICATING TEE. |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER : WATTS MODEL LF909M1, 1/2" REDUCED PRESSURE BACKFLOW PREVENTER WITH A MODEL 909AGF AIR GAP DRAIN. INSTALL UNIT IN HORIZONTAL POSITION. REFER TO DETAIL ON DRAWINGS. |
| WH-1 | WATER HEATER (ELECTRIC INSTANTANEOUS, 208V/3Ø, 133 AMPS) HUBBEL MODEL HX42-6T4 (OR EQUAL) INTERIOR WALL MOUNTED, INSTANTANEOUS WATER HEATER RATED AT 48 KW. SET TO 120°F OUTLET TEMP |
| UR | URINAL, WALL HUNG SIPHON JET: KOHLER K-4904-ET, 0.125 GPF 3/4" TOP SPUD, WHITE. SLOAN 8186-0.13HE SENSOR FLUSH VALVE, BATTERY POWERED, 0.125GPF. PROVIDE ZURN Z1222 CARRIER. |
| TP | TRAP PRIMER: JOSAM F/G. NO. 88250, AUTOMATIC TRAP PRIMER, MOUNTED INSIDE WALL CAVITY UNDER LAVATORY. PROVIDE 8" X 8" ACCESS PANEL TO CLEAR LAVATORY ROUGH-IN AND PAINTED TO MATCH WALL. RUN 1/2" COPPER LINE FROM TRAP PRIMER TO ADJACENT FLOOR DRAIN AS SHO

DRAIN MANAGEMENT PROGRAM:

- ALL DRAINS, VENTS, ETC. MUST BE TAPED OVER DURING CONSTRUCTION TO PREVENT DEBRIS FROM INFILTRATING THE LINES

- GC/DEVELOPER IS REQUIRED TO SUBMIT PHOTOS OF TAPED DRAINS

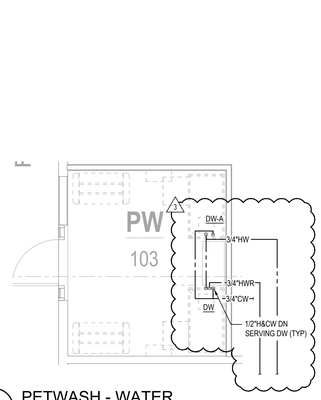
- GC WILL BE FINED $150 PER DAY IF PHOTOS ARE NOT SUBMITTED BY THE BEGINNING OF WEEK TWO OF THE PROJECT OR IF ANY DRAIN IS DISCOVERED TO BE UNCOVERED DURING A PM SITE VISIT. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY THE TRACTOR SUPPLY PM.

- GC/DEVELOPER WILL BE REQUIRED TO JET AND CAMERA ANY LINE IN WHICH THE DRAIN IS DISCOVERED TO BE UNCOVERED. RECEIPTS AND VIDEO MUST BE SUBMITTED TO TRACTOR SUPPLY FOR VERIFICATION.

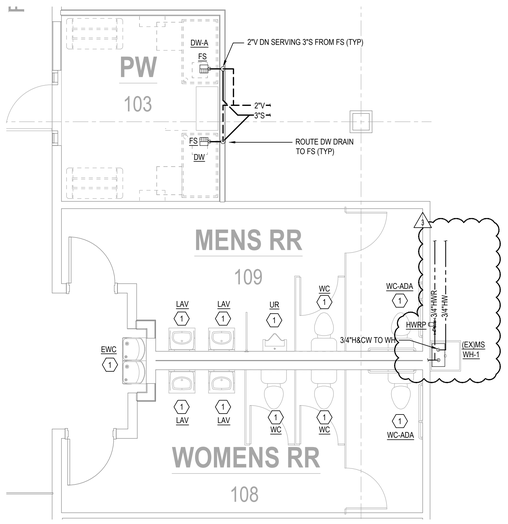
- DRAIN MANAGEMENT SIGNAGE WILL BE PROVIDED BY TRACTOR SUPPLY AND INSTALLED BY THE GC/DEVELOPER.

- IF SIGNAGE IS NOT INSTALLED AT PUNCH, CLEANING/CAMERA POLICY WILL APPLY.

- GC WILL BE FINED $150 PER DAY IF SIGNAGE IS NOT INSTALLED AT PUNCH. FINES WILL TERMINATE ON THE DAY THAT PHOTOGRAPHIC EVIDENCE OF COMPLETION IS SUBMITTED TO AND VERIFIED BY TRACTOR SUPPLY PM.




3 PETWASH - WATER
SCALE: 1/4" = 1'-0"



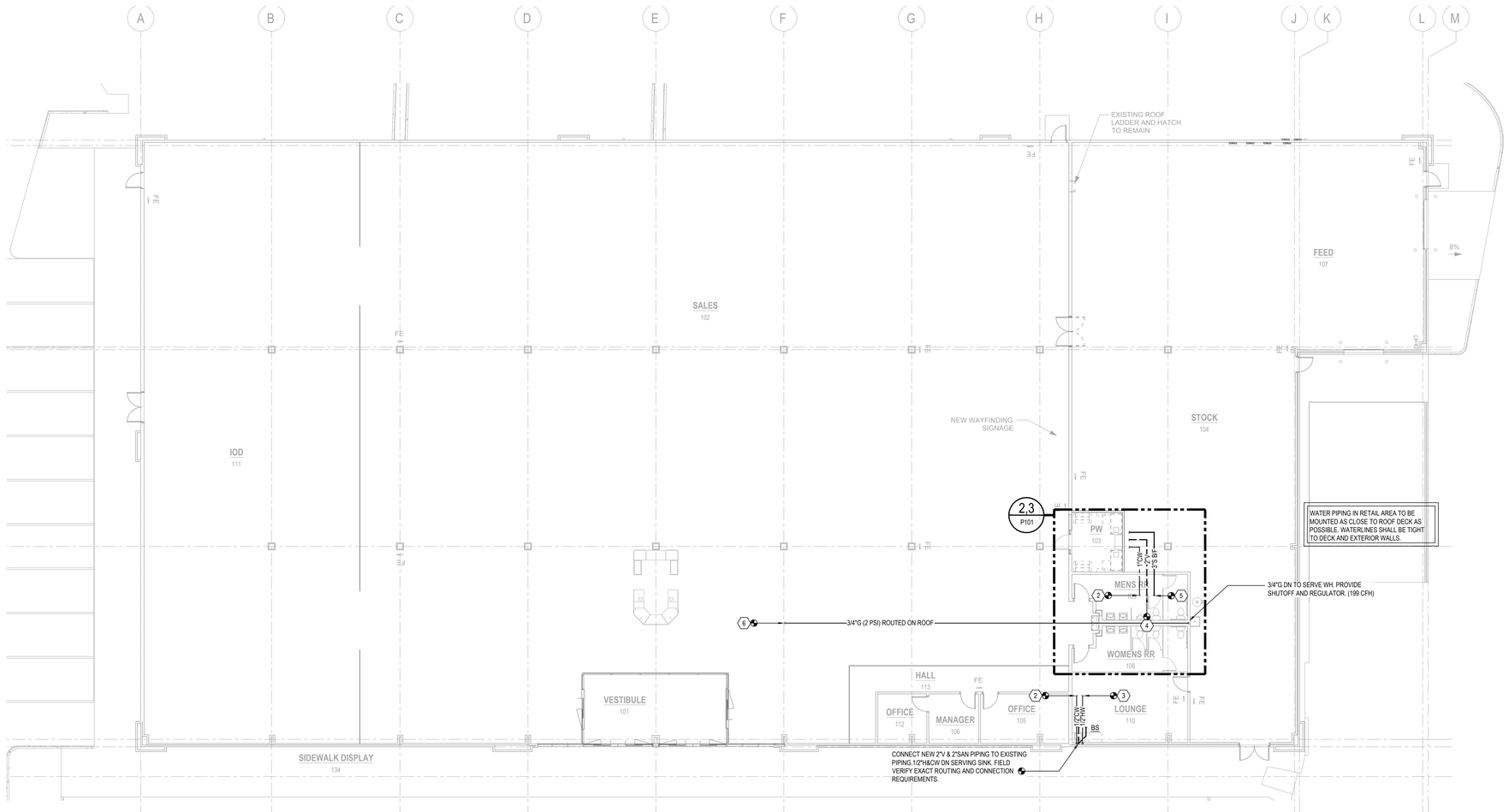

2 BATHROOMS & PETWASH
SCALE: 1/4" = 1'-0"

## KEYED NOTES: (DESIGNATED BY "#")

1. PROVIDE NEW PLUMBING FIXTURE AND ACCESSORIES IN SIMILAR LOCATION. EXISTING WASTE, VENT, AND SUPPLY PIPING TO BE MODIFIED AS NECESSARY FOR CONNECTIONS TO NEW FIXTURE.
2. CONNECT NEW COLD WATER PIPING TO EXISTING COLD WATER PIPING. FIELD VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS.
3. CONNECT NEW HOT WATER PIPING TO EXISTING HOT WATER PIPING. FIELD VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS.
4. CONNECT NEW VENT PIPING TO EXISTING VENT PIPING. FIELD VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS.
5. CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING. FIELD VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS.
6. CONNECT NEW GAS PIPING TO EXISTING GAS PIPING. FIELD VERIFY EXACT ROUTING AND CONNECTION REQUIREMENTS.

## GENERAL NOTES:

1. INSULATE ALL DOMESTIC HOT WATER PIPING WITH 1" THICK INSULATION. INSULATE ALL DOMESTIC COLD WATER PIPING WITH 1/2" THICK INSULATION.
2. ALL WATER PIPING SHALL BE ROUTED TIGHT TO DECK AND EXTERIOR WALLS WITHIN SPACE. NO DOMESTIC HOT WATER OR COLD WATER PIPING WILL BE PERMITTED WITHIN EXTERIOR CMU WALLS.
3. FURNISH AND INSTALL INSULATED "HOTBOX" TO SERVE EXTERIOR DOMESTIC BACKFLOW PREVENTER AND EXTERIOR FIRE PROTECTION BACKFLOW PREVENTER.
4. INLINE FLOOR DRAIN TRAP SEAL MAY BE USED IN LIEU OF TRAP PRIMERS PENDING LOCAL CODE APPROVAL. TRAP SEALS SHALL MEET REQUIREMENTS OF ASSE 1072 AND SHALL BE MADE OF CHEMICALLY RESISTANT ELASTOMER.




1 FLOOR PLAN
SCALE: 3/32" = 1'-0"

CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Architect:
Contact: Dan Marta
469-455-1550; 1219

Project Manager:
Contact: CODY SMITH
214-542-8062

TRACTOR SUPPLY CO.
TSC

# TSC Store #
# Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY. STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

ANDREW H. SMITH
NEW MEXICO
16488
PROFESSIONAL ENGINEER
12-22-25

| No. | Description | Date |
|---|---|---|
| 3 | Revision 5 | 2025.12.22 |
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC © 2025

PLUMBING FLOOR PLANS

P101

Jordan & Skala Engineers
4201 West Plano Parkway, Suite 250 Plano, TX. 75093
p. 469.385.1616 f. 469.385.1615
Project Number: 250302kb Drawn By:JTBC Checked By:JLR

# HVAC GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE 2021 NM MECHANICAL CODE, THE 2021 NM BUILDING CODE, 2021 NM COMMERICAL ENERGY CONSERVATION CODE, STATE AND LOCAL AMENDMENTS, NFPA 70 (NEC), 90A, 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.

2. THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH THE ASHRAE 90.1 PRESCRIPTIVE ENERGY CODE COMPLIANCE PATH AS AN ALLOWED ALTERNATE BY THE IECC. THE OWNER/ARCHITECT/CONTRACTOR SHALL REFER TO THE APPLICABLE PROJECT DOCUMENTATION (SCORECARD/ CHECKLIST/ CODE) PRIOR TO PRESENTING VALUE ENGINEERING ALTERNATIVES OR OWNER/ARCHITECT REQUESTED REVISIONS THAT MAY IMPACT COMPLIANCE WITH THE APPLICABLE GREEN BUILDING PROGRAM OR ENERGY CODE.

3. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, SUPPORTS, DEVICES, CONDUIT, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE MECHANICAL AND ELECTRICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE THE DRAWINGS, BUT REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS, SCALE, ETC., NOTIFY THE ARCHITECT IMMEDIATELY.

4. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL,, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.

5. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.

6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

7. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.

8. PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

9. MOUNT TOP OF THERMOSTATS AT 46" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH ALL TRADES. COORDINATE FINAL LOCATIONS WITH THE GENERAL CONTRACTOR, INTERIOR DESIGNER AND THE OWNER PRIOR TO INSTALLATION. LOCATE ADJACENT TO LIGHT SWITCHES WHERE POSSIBLE. DO NOT LOCATE THERMOSTATS AT THE CENTER OR NEAR CENTER OF A WALL. THERMOSTATS SHALL BE MOUNTED NO CLOSER THAN 8" FROM THE CORNER OR END OF A WALL OR DOOR. ALL THERMOSTATS SHALL BE ADA COMPLIANT.

10. UNLESS OTHERWISE NOTED, ALL EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. SHOWN AS BEING REMOVED AS PART OF THIS CONTRACT SHALL BECOME THE PROPERTY OF THE HVAC CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO PROJECT COMPLETION.

11. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.

12. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.

13. CAREFULLY COORDINATE ALL PENETRATIONS THROUGH THE ROOF WITH ARCHITECTURAL DRAWINGS. THE PENETRATIONS SHALL NOT BE LOCATED WHERE THEY WILL CONFLICT WITH ARCHITECTURAL FEATURES, EXPANSION JOINTS OR STRUCTURE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ANY WORK BEING DONE.

14. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.

15. SEAL THE ANNULAR SPACE AROUND ALL DUCT, PIPE, GRILLE, REGISTER, DIFFUSER, ETC. PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DOCUMENTS FOR APPROVED MATERIALS).

16. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A 2" HIGH SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.

17. REFER TO ARCHITECTURAL PLANS FOR FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.

18. THE FIRE SPRINKLER CONTRACTOR SHALL INSTALL AND LOCATE ALL FIRE SPRINKLER PIPING TO PREVENT PIPING FROM THE POTENTIAL OF FREEZING. THE FIRE SPRINKLER CONTRACTOR IS REQUIRED TO NOTIFY THE ARCHITECT AND COORDINATE WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS IF HEATING IS REQUIRED.

19. DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN ELECTRICAL ROOMS, TELECOM ROOMS, OR ELEVATOR EQUIPMENT ROOMS EXCEPT FOR DUCTWORK AND PIPING SERVING THAT SPECIFIC ROOM. DUCTWORK AND PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL EQUIPMENT PER THE NATIONAL ELECTRICAL CODE ARTICLE 110.

20. ROOFING: ROOF OPENINGS, PENETRATIONS AND CURBS SHALL BE AT LEAST 12 INCHES APART FROM OTHER ROOF PENETRATIONS, CURBS, WALL, AND DRAIN SUMP TO ALLOW FOR PROPER ROOFING SYSTEM FLASHING AND DETAILING. ROOF OPENINGS SHALL BE A MINIMUM OF 3'-0" FROM A PARAPET WALL AND A MINIMUM OF 5'-0" FROM A FIRE WALL EXTENDING THRU THE ROOF.

21. STORAGE AND PROTECTION OF STORED MATERIALS:

    a. DURING CONSTRUCTION, ALL EQUIPMENT SHALL BE PROPERLY PROTECTED AGAINST DAMAGE, DEFACING AND FREEZING WITH SHIPPING CARTONS, PLASTIC SHEETING, SHIPPING COVERS, ETC.

    b. ALL OPEN ENDS OF PIPING AND EQUIPMENT SHALL BE SEALED WITH NIPPLES AND CAPS, PLUGS, AND TEST PLUGS UNTIL FINAL CONNECTION TO SYSTEM IS MADE.

    c. ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE PROTECTED TO PREVENT ENTRANCE OF FOREIGN MATTER AND DEBRIS BY COVERING EXPOSED OPENINGS DURING CONSTRUCTION.

    d. HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS.

    e. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.

    f. PROTECT EQUIPMENT AND AIR DISTRIBUTION SYSTEMS AS OUTLINED IN SMACNA'S IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, LATEST EDITION.

TESTING, ADJUSTING AND BALANCING

1. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT THE CERTIFIED (AABC OR NEBB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL.

MECHANICAL/ELECTRICAL COORDINATION:

1. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.

2. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH A DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS. DISCONNECT SWITCH SHALL BE FURNISHED BY MECHANICAL FOR INSTALLATION BY ELECTRICAL. DISCONNECT SWITCHES SHALL NOT BE MOUNTED ON THE EQUIPMENT IT SERVES UNLESS INTEGRAL TO THE UNIT.

3. PROVIDE ALL SYSTEM CONTROLS AND ASSOCIATED CONTROL AND INTERLOCK WIRING FOR COMPLETE AND OPERABLE SYSTEMS. 120 VOLT AND HIGHER WIRING SHALL BE MC CABLE OR IN CONDUIT IN ACCORDANCE WITH LOCAL CODES AND THE MATERIALS AND INSTALLATION REQUIREMENTS OF DIVISION 26 - ELECTRICAL. CONTROLS SHALL NOT BE INSTALLED IN DUCTWORK OR THROUGH DAMPERS.

4. ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.

5. UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 26 CONTRACTOR.

6. MAINTAIN REQUIRED NEC CLEARANCES FOR ALL POWERED MECHANICAL EQUIPMENT. THE CLEAR WIDTH SHALL BE THE WIDTH OF THE EQUIPMENT OR 2'-6" (MINIMUM). THE FOLLOWING CLEARANCE IN FRONT OF THE EQUIPMENT SHALL BE:

    a. FOR 208/240V EQUIPMENT: 3'-0" CLEARANCE

    b. FOR 480V EQUIPMENT: 3'-0" CLEARANCE: CONDITION 1 - OPEN AREA, NO OBSTRUCTIONS; 3'-6" CLEARANCE - CONDITION 2 - GROUNDED EQUIPMENT, OR CONCRETE/STEEL WALL ON OPPOSING SIDE; 4' CLEARANCE - CONDITION 3 - LIVE PARTS TO LIVE PARTS.

7. ROUTING DUCTWORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR AND ALL OTHER TRADES DURING THE SUBMITTAL AND LAYOUT PHASE. DUCTWORK SHALL NOT BE ROUTED THROUGH THE DEDICATED ELECTRICAL SPACE ABOVE EACH LOAD CENTER.

8. COORDINATE WITH THE ELECTRICAL DRAWINGS FOR THE REQUIRED SHORT CIRCUIT CURRENT RATING OF THE PANELBOARD SERVING THE EQUIPMENT. THE EQUIPMENT NAMEPLATE SHALL BEAR A RATING OF NO LESS THAN THE PANELBOARD RATING.

DUCT SMOKE DETECTORS:

1. ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE RETURN DUCTWORK. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN THE RETURN AIR PATH OF AIR DISTRIBUTION SYSTEMS UTILIZING A COMMON SUPPLY AND/OR RETURN AIR PLENUM WITH A COMBINED DESIGN CAPACITY GREATER THAN 2000 CFM.

2. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL. THE SMOKE DETECTOR SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR, MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR.

AIR DISTRIBUTION:

1. SUPPLY, RETURN AND O.A. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, LATEST EDITION.

1. SNAP-LOCK LONGITUDINAL SEAMS ARE NOT ALLOWED UNLESS SECURED WITH SHEET METAL FASTENING SCREWS AS RECOMMENDED BY SMACNA.

2. TAPES, SEALANTS AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181 B-M" FOR MASTIC/SEALANT.

3. SEAL THE ANNULAR SPACE AROUND ALL DUCT PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS AIRTIGHT WITH AN APPROVED MATERIAL (RE: ARCHITECTURAL DRAWINGS FOR APPROVED MATERIALS).

4. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C".

5. SHEETMETAL DUCT SEALING:

    a. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

    b. SEAL, INSPECT AND TEST SHEETMETAL DUCTWORK PRIOR TO INSULATING OR CONCEALING. SEAL ALL DUCTWORK AND PLENUMS TO MEET SMACNA SEAL CLASS A.

    c. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS.

    d. PRESSURE-SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT, UNLESS IT HAS BEEN CERTIFIED TO COMPLY WITH UL-181A OR UL-181B BY AN INDEPENDENT TESTING LABORATORY AND THE TAPE IS USED IN ACCORDANCE WITH THAT CERTIFICATION.

    e. ALL CONNECTIONS SHALL BE SEALED, INCLUDING BUT NOT LIMITED TO SPIN-IN FITTINGS, TAPS, OTHER BRANCH CONNECTIONS, ACCESS DOORS, AND DUCT CONNECTIONS TO EQUIPMENT.

    f. SEALING THAT WOULD VOID PRODUCT LISTINGS IS NOT REQUIRED.

    g. SPIRAL LOCK SEAMS NEED NOT BE SEALED.

6. ALL OPEN-ENDED DUCTS AND FAN OUTLETS SHALL HAVE ½" X ½" HARDWARE CLOTH (WMS) AFFIXED TO THE OPENING.

7. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL (G 90 MINIMUM) CONSTRUCTED TO SMACNA STANDARDS AND SHALL NOT BE INSULATED UNLESS NOTED OTHERWISE.

8. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.

9. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL BY FLEXMASTER, QUIETFLEX, ATCO, JM LAMBORN, OR ROYAL METAL PRODUCTS. PROVIDE A MINIMUM INSULATION VALUE OF R-6; R-8 WHEN LOCATED OUTSIDE THE THERMAL ENVELOPE OF THE BUILDING, OR GREATER WHERE REQUIRED BY APPLICABLE ENERGY CODE. AIR CONNECTORS ARE NOT ACCEPTABLE. FLEX DUCT DIAMETER SHALL MATCH DEVICE NECK DIAMETER. PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 8'_0" FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.

10. TAPE, BED AND SEAL AIR-TIGHT ALL PENETRATIONS FROM RETURN AIR PLENUMS TO NON-RETURN AIR PLENUMS THAT ARE REQUIRED DUE TO DUCTWORK, PIPING OR OTHER ITEMS.

11. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

12. EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.

13. PROVIDE ALL OUTDOOR AIR INTAKES AND EXHAUST OPENINGS WITH MOTORIZED OR GRAVITY DAMPERS IN ACCORDANCE WITH THE LOCAL ENERGY CODE. DAMPERS SHALL CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.

14. LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.

15. EXPOSED INTERIOR DUCTWORK TO BE PAINTED SHALL HAVE ALL EXPOSED SURFACES (INCLUDING HANGER STRAPS) COATED WITH A "PAINT GRIP" FINISH FOR FIELD PAINTING. AS AN OPTION, MILL PHOSPHATIZED STEEL DUCTWORK MAY BE USED. LINE OR INSULATE PER HVAC GENERAL NOTES.

16. PROTECT DUCTS EXPOSED IN FINISHED SPACES FROM BEING DENTED, SCRATCHED, OR DAMAGED. TRIM DUCT SEALANTS FLUSH WITH METAL TO CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. TWO-PART TAPE SEALING SYSTEMS ARE NOT ALLOWED. REPAIR OR REPLACE DAMAGED DUCTWORK AND FINISH WORK THAT DOES NOT COMPLY WITH THESE REQUIREMENTS.

17. INSTALL DUCTWORK SUCH THAT LINE-OF-SIGHT IS ELIMINATED BETWEEN RETURN AIR REGISTERS/GRILLES AND AIR HANDLING UNITS, FAN COIL UNITS AND ROOFTOP UNITS.

INSULATION:

1. DUCT INSULATION:

    1) DUCT WRAP SHALL BE UL LISTED FIBERGLASS BLANKET INSULATION WITH FOIL VAPOR BARRIER, JOHNS MANVILLE MICROLITE EQ FSK OR APPROVED EQUAL. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATE SHEET METAL DUCTWORK IN THE THICKNESSES AND DENSITIES LISTED BELOW:
        1) SHEET METAL SUPPLY AND OUTSIDE AIR DUCTWORK: 2" THICK, 1 LB/FT3/ DENSITY, R-6 MINIMUM INSTALLED.
        2) SHEET METAL RETURN DUCTWORK IN NON-AIR-CONDITIONED AREAS (SUCH AS INTERSTITIAL SPACES AND FLOOR/CEILING ASSEMBLIES): 2" THICK, 1 LB/FT3/ DENSITY, R-6 MINIMUM INSTALLED.
        3) ALL SHEET METAL DUCTWORK LOCATED OUTSIDE OF THE THERMAL ENVELOPE OF THE BUILDING (INCLUDING CRAWL SPACES AND ATTIC SPACES): 3" THICK, ½" LB/FT3/ DENSITY, R-8 MINIMUM INSTALLED.
    2. INDOOR EXPOSED RECTANGULAR SHEET METAL SUPPLY AND RETURN AIR DUCTWORK SHALL BE LINED WITH 1" THICK DUCT LINER (MINIMUM R-4) JOHNS MANVILLE LINACOUSTIC RC OR EQUAL.
    3. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR PAINTING OF DUCTWORK, INSULATION, ETC. IN EXPOSED INTERIOR AREAS.

GAS FLUES (U.L. LISTED):

1. GAS FLUE MATERIAL SHALL BE AS RECOMMENDED BY THE HEATING APPLIANCE MANUFACTURER EXCEPT THAT WHERE POLYVINYL CHLORIDE (PVC) IS ALLOWABLE FOR CATEGORY II AND IV APPLIANCES, PROVIDE A UL TESTED AND LISTED POLYPROPYLENE (PP) GAS VENTING SYSTEM; POLYFLUE, POLYPRO, INNOFLUE OR APPROVED EQUAL. PVC IS ACCEPTABLE FOR COMBUSTION AIR PIPING. CERTAIN APPLIANCES MAY REQUIRE AL29-4C VENTING MATERIAL IN CONFORMANCE WITH UL 1738.

2. SIZING AND ROUTING RESTRICTIONS SHALL BE PER MANUFACTURER'S REQUIREMENTS.

3. TERMINATE ALL GAS FLUE PIPING TO THE OUTDOORS THROUGH ROOF OR EXTERIOR WALL. TERMINATION SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND FLASHED AND SEALED WEATHERTIGHT.

DEMOLITIONS, ADDITIONS AND RENOVATIONS:

1. FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO REMOVE AND/OR MAKE-SAFE THE EXISTING EQUIPMENT, DUCTWORK, PIPE, FITTINGS, VALVES AND APPURTENANCES INDICATED ON THE DRAWINGS, AND NOT REQUIRED FOR THE PROPER OPERATION OF THE NEW HVAC SYSTEM. REMOVAL WILL BE CONSISTENT WITH THE FINAL CONFIGURATION OF THE NEW SYSTEMS AS INDICATED AND AS REQUIRED BY THE OWNER/ARCHITECT. THE EQUIPMENT, DUCTWORK, AND PIPING IDENTIFIED SHALL BE REMOVED FROM THEIR PRESENT LOCATIONS AND SHALL BE REMOVED FROM THE SITE OR STORED AS SPECIFIED HEREINAFTER.

2. PERFORM ALL WORK REQUIRED TO TIE-IN THE NEW WORK TO THE EXISTING SYSTEMS AND TO ADAPT THE EXISTING SYSTEMS TO THE NEW WORK. WORK SHOWN IS INTENDED TO SHOW THE FINAL HVAC SYSTEM CONFIGURATION.

3. BEFORE REMOVAL OF ANY ELECTRICALLY OPERATED EQUIPMENT, COORDINATE CAREFULLY TO ASSURE THAT POWER AND CONTROL WIRING HAS BEEN DISCONNECTED AND/OR LOCKED OUT, TAGGED OUT AND MADE-SAFE.

4. IT SHOULD BE NOTED THAT SOME HVAC SYSTEMS ARE TO REMAIN. IF ANY OF THESE SYSTEMS ARE DAMAGED DURING THE PROGRESS OF CONSTRUCTION OR DEMOLITION, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT/OWNER WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

5. PRIOR TO THE ORDERING OR PURCHASING OF ANY EQUIPMENT OR MATERIALS, OR THE LAYOUT OR INSTALLATION OF ANY NEW WORK, THE CONTRACTOR SHALL EXAMINE THE PREMISES AND VERIFY ANY AND ALL OF THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE, OR THAT WILL IN ANY MANNER AFFECT THE WORK UNDER THIS CONTRACT.

6. UNLESS SPECIFICALLY NOTED TO BE REMOVED, EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. IS TO REMAIN. ANY EQUIPMENT, PIPING OR APPURTENANCES REMOVED WHICH ARE NECESSARY FOR THE OPERATION OF THE EXISTING SYSTEM SHALL BE REPLACED TO THE SATISFACTION OF THE ARCHITECT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

7. WHEN ENCOUNTERED IN THE COURSE OF THE WORK, PROTECT, BRACE, AND SUPPORT EXISTING, ACTIVE SERVICES AS NECESSARY FOR PROPER EXECUTION OF THE WORK. RELOCATE EXISTING ACTIVE SERVICES ENCOUNTERED AS NECESSARY OR AS SHOWN ON THE CONTRACT DOCUMENTS. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN. NOTIFY ALL UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION PRIOR TO MODIFYING SERVICES.

8. WHERE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUT THE SERVICES DOWN AT NIGHT OR AT SUCH TIMES, AS APPROVED BY THE OWNER WHICH WILL CAUSE THE LEAST INTERFERENCE WITH SCHEDULED OPERATIONS. ARRANGE WORK TO ASSURE THAT SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE CONNECTION TO THE EXISTING WORK.

9. ALL DUCTWORK, PIPE, FITTINGS, TUBING, INSULATION, HANGERS AND SUPPORTS, ETC. THAT ARE DEMOLISHED OR DAMAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UPON REMOVAL. THE MATERIALS SHALL BE REMOVED IMMEDIATELY FROM THE SITE AND SHALL NOT BE REUSED.

10. ANY EXISTING PROPERTY DAMAGED BY THE CONTRACTOR WHILE PERFORMING ANY WORK SHALL BE REPLACED WITH NEW MATERIALS TO MATCH EXISTING CONDITIONS; HOWEVER, ANY EXISTING INSULATION THAT IS DAMAGED SHALL BE REPLACED AS SPECIFIED FOR NEW INSULATION.

11. WHERE EXISTING PIPING AND DUCTWORK IS REMOVED TO MAKE READY FOR CONNECTION TO NEW PIPING OR DUCTWORK, THE OPENING SHALL BE TEMPORARILY COVERED AND SEALED OR PLUGGED TO PREVENT DUST OR DEBRIS FROM ENTERING THE SYSTEM.

12. WHEREVER PIPING IS REMOVED FOR DISPOSITION, ADJACENT PIPE AND HEADERS THAT ARE TO REMAIN IN SERVICE SHALL BE BLANKED OFF OR PLUGGED AND THEN ANCHORED IN AN APPROVED MANNER. PIPING PASSING THROUGH FLOORS THAT IS TO BE REMOVED SHALL BE CUT OR GROUND FLUSH WITH THE FLOOR AND FILLED WITH GROUT FLUSH WITH ADJACENT FLOOR.

13. EQUIPMENT TO BE RETAINED BY THE OWNER SHALL BE CAREFULLY REMOVED FROM THE PRESENT LOCATION, CLEANED, PACKAGED AND IMMEDIATELY STORED AT A PLACE ON-SITE AS DESIGNATED BY THE OWNER.

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AGAINST DAMAGING THE MATERIAL AND EQUIPMENT TO BE STORED. THE CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM HIS OPERATIONS, AS DIRECTED BY AND TO THE SATISFACTION OF THE ARCHITECT. ITEMIZED LISTS OF MATERIALS REMOVED AND STORED SHALL BE RECORDED AND SUBMITTED TO THE OWNER AT THE COMPLETION OF CONSTRUCTION. THE LIST SHALL INCLUDE A PHYSICAL DESCRIPTION OF ALL ITEMS, PHOTOGRAPHS, HOW THEY ARE PACKAGED AND WHERE THEY ARE STORED.

15. WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATIONS TO EXISTING EQUIPMENT OR SYSTEMS, THE EXISTING EQUIPMENT OR SYSTEMS SHALL BE RESTORED TO THEIR ORIGINAL AND OPERATING CONDITION.

16. WHERE PIPES, CONTROL DEVICES AND WIRING WHICH ARE TO REMAIN IN SERVICE, BUT ARE DISCONNECTED FOR THE REMOVAL OR RELOCATION OF EQUIPMENT OR BECAUSE OF BUILDING ALTERATIONS, THEY SHALL BE RECONNECTED.

17. ALL THERMOSTATS AND TEMPERATURE SENSORS THAT ARE TO REMAIN IN SERVICE SHALL BE REMOVED AND STORED IN A SAFE PLACE OR COVERED IN PLASTIC AND PROTECTED FROM CONSTRUCTION/DEMOLITION. PRIOR TO CONSTRUCTION, CATALOG ALL EXISTING THERMOSTATS TO BE REUSED AND VERIFY PROPER OPERATION. NOTIFY THE ARCHITECT AT THIS TIME OF ANY INOPERABLE THERMOSTATS. ANY THERMOSTATS DAMAGED OR FOUND TO BE INOPERABLE AT TURNOVER SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

18. WHERE EXISTING HVAC SYSTEMS ARE TO BE REUSED OR PARTIALLY REUSED, AND PRIOR TO DEMOLITION, PERFORM A COMPLETE AIRSIDE TEST AND BALANCE. TEST AND BALANCE SHALL BE PERFORMED BY A CERTIFIED AABC OR NEBB TEST AND BALANCE AGENCY. SUBMIT THE FINAL REPORT TO THE ARCHITECT/OWNER.

## DRAWING INDEX - MECHANICAL

| DRAWING NO. | DRAWING DESCRIPTION | ISSUED FOR PERMIT 05/09/25 |
|---|---|---|
| M001 | NOTES AND DRAWING INDEX - MECHANICAL | X |
| M002 | LEGENDS, SCHEDULES AND DETAILS - MECHANICAL | X |
| M101 | FLOOR PLAN - MECHANICAL | X |
| M131 | ROOF PLAN - MECHANICAL | X |
| | TOTAL DRAWINGS ISSUED: | 4 |


CONSTRUCTION • ARCHITECTURE

PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Architect:** Contact: Dan Marta 469-455-1550; 1219

**Project Manager:** Contact: CODY SMITH 214-542-8062


TRACTOR SUPPLY CO.

TSC Store #
Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY, STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

ANDREW H. SMITH — NEW MEXICO — 16489 — REGISTERED PROFESSIONAL ENGINEER
9-15-25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:


COPYRIGHT PKWY ARCHITECTS, LLC 2025


NOTES AND DRAWING INDEX - MECHANICAL

M001

## HVAC LEGEND

| SYMBOL | DESCRIPTION | ABBREVIATION |
|---|---|---|
| A 100 6"Ø | AIR DEVICE TAG, TYPE "A", BALANCE FOR 100 CFM, 6"Ø NECK | --- |
| BDD | BACK DRAFT DAMPER | BDD |
| CO/NO2 | CARBON MONOXIDE/NITROGEN DIOXIDE (CO/NO2) SENSOR | --- |
| A | CO/NO2 GAS DETECTION SYSTEM ALARM | --- |
| CRD | CEILING RADIATION DAMPER IN DUCT/CEILING REGISTER | CRD |
| FSD | COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL) | FSD |
| FSD | COMBINATION FIRE/SMOKE DAMPER (VERTICAL) | FSD |
| D | DUCT DROP | --- |
| R | DUCT RISE | --- |
| 12x10 | DUCT SIZE - RECTANGULAR (OR 12/10) | --- |
| 8"Ø | DUCT SIZE - ROUND | --- |
| 2 | DUCT SMOKE DETECTOR | --- |
| | DUCT TRANSITION | --- |
| | DRYER VENT BOX | --- |
| AB2 | EQUIPMENT DESIGNATION | --- |
| | FIRE DAMPER (HORIZONTAL) | FD |
| | FIRE DAMPER (VERTICAL) | FD |
| | FLEXIBLE DUCT | --- |
| | FLEXIBLE DUCT CONNECTOR | --- |
| | LINED DUCT | --- |
| | MANUAL VOLUME DAMPER (RECTANGULAR DUCT) | MVD |
| | MANUAL VOLUME DAMPER (ROUND DUCT) | MVD |
| M | MOTORIZED DAMPER | MD |
| | RETURN / EXHAUST AIR DUCT TURNED DOWN | --- |
| | RETURN / EXHAUST AIR DUCT TURNED UP | --- |
| | RETURN / EXHAUST AIR GRILLE (CEILING) | --- |
| | ROUND CEILING DIFFUSER | --- |
| | SIDEWALL SUPPLY REGISTER OR GRILLE | --- |
| | SIDEWALL RETURN AIR REGISTER OR GRILLE | --- |
| | SLOT DIFFUSER | --- |
| | SMOKE DAMPER | SD |
| | SPIN IN FITTING W/ DAMPER & FLEX DUCTWORK | --- |
| | SQUARE CEILING DIFFUSER | --- |
| | SUPPLY AIR DUCT TURNED DOWN | --- |
| | SUPPLY AIR DUCT TURNED UP | --- |
| T S | THERMOSTAT/TEMPERATURE SENSOR | TSTAT |
| | TURNING VANES | --- |
| UCD | UNDER CUT DOOR | UCD |
| | WALL CAP (EA OR OA) | --- |
| | WALL LOUVER (INTAKE) | WL |
| | WALL LOUVER (EXHAUST) | WL |
| | MECHANICAL EQUIPMENT WITH SERVICE AND AIRFLOW CLEARANCES (AS REQUIRED BY THE MANUFACTURER) | --- |

| DESCRIPTION | ABBREVIATION |
|---|---|
| 1000 BTU/HR | MBH |
| ABOVE CEILING | A/C |
| ABOVE FINISHED FLOOR | AFF |
| ABOVE FINISHED GRADE | AFG |
| ACCESS DOOR | AD |
| ACCESS PANEL (REFER TO ARCHITECTURAL DWGS.) | AP |
| AIR CONDITIONER | AC |
| AIR COOLED CONDENSING UNIT | CU |
| AIR HANDLER | AH |
| ALUMINIUM | ALUM |
| AUTHORITY HAVING JURISDICTION | AHJ |
| BYPASS DAMPER | BPD |
| CABINET UNIT HEATER | CUH |
| CEILING HEATER | CEH |
| CEILING RADIATION DAMPER | CRD |
| CIRCULATION FAN | CF |
| CLEAN OUT | CO |
| COEFFICIENT OF PERFORMANCE | COP |
| CONDENSATE DRAIN | CD |
| DEW POINT | DP |
| DOWN | DN |
| DUCT ACCESS DOOR | AD |
| DRY BULB | DB |
| ELECTRIC UNIT HEATER | EUH |
| ELECTRIC WALL HEATER | EWH |
| ENTERING AIR TEMPERATURE | EAT |
| ENTERING WATER TEMPERATURE | EWT |
| EXHAUST AIR (ENVIRONMENTAL AIR) | EA |
| EXHAUST FAN | EF |
| EXTERNAL STATIC PRESSURE | ESP |
| FIRE FIGHTERS SMOKE CONTROL PANEL | FSCP |
| FREE AREA | FA |
| FURNACE | F |
| GARAGE EXHAUST FAN | GEF |
| GRILLE (AIR DEVICE WITHOUT A BALANCING DAMPER) | GR |
| HEAT PUMP | HP |
| HEATING SEASONAL PERFORMANCE FACTOR | HSPF |
| HEIGHT | HT |
| HIGH SIDEWALL | HSW |
| INCHES OF WATER COLUMN | IN WC |

| DESCRIPTION | ABBREVIATION |
|---|---|
| INSIDE DIAMETER | ID |
| INTAKE HOOD | IH |
| INTEGRATED ENERGY EFFICIENCY RATIO | IEER |
| KILOWATT | kW |
| LEAVING AIR TEMPERATURE | LAT |
| LEAVING WATER TEMPERATURE | LWT |
| LOW SIDEWALL (12" AFF) | LSW |
| MOUNT | MT |
| NOT APPLICABLE | N/A |
| ON CENTER | OC |
| OPEN ENDED DUCT | OED |
| OPENING | OPG |
| OPPOSED BLADE DAMPER | OBD |
| OUTSIDE AIR | OA |
| OUTSIDE AIR UNIT | OAU |
| POOL EQUIPMENT ROOM | PER |
| PRESSURE DROP | PD |
| REFRIGERANT LIQUID | RL |
| REFRIGERANT SUCTION | RS |
| REGISTER (AIR DEVICE WITH FACE OPERATED BALANCING DAMPER) | REG |
| RELIEF HOOD | RH |
| RETURN AIR | RA |
| ROOF TOP UNIT | RTU |
| SEASONAL ENERGY EFFICIENCY RATIO | SEER |
| SENSIBLE | SENS |
| SQUARE FEET | SF |
| STATIC PRESSURE (IN WC) | SP |
| SUPPLY AIR | SA |
| SUPPLY GRILLE | SG |
| SUPPLY REGISTER | SR |
| TRANSFER | TXR |
| TRANSFER DUCT | TD |
| TYPICAL | TYP |
| UNLESS NOTED OTHERWISE | UNO |
| VARIABLE REFRIGERANT VOLUME/VARIABLE REFRIGERANT FLOW | VRV/VRF |
| WALL LOUVER | WL |
| WATER COLUMN OR WATER GAUGE | WC or WG |
| WET BULB | WB |
| ZONE DAMPER | ZD |

## HVAC DEMOLITION LEGEND

| SYMBOL | DESCRIPTION | ABBREVIATION |
|---|---|---|
| | EXISTING TO REMAIN | (E) |
| | REMOVE | (R) |
| | REMOVE AND REPLACE | (R/R) |
| | NEW | (N) |
| | CONNECT NEW TO EXISTING | --- |
| | REMOVE AND CAP EXISTING | --- |
| (E)10x10 (R)10x10 | EXISTING DUCT TO BE DEMOLISHED | --- |
| (E)10x10 (N)10x10 | CONNECT NEW DUCT TO EXISTING DUCT | --- |
| EQUIP (E) | EXISTING EQUIPMENT TO REMAIN | |
| EQUIP (R) | EXISTING EQUIPMENT TO BE REMOVED | |
| | EXISTING PIPING TO REMAIN | |
| | EXISTING PIPING TO BE REMOVED | |
| | | |

## FANS

| TAG | MANUF | MODEL | TYPE | DUTY | CFM | SP (IN WC) | MAX MOTOR SIZE | MIN FEI | MIN EFFICACY (CFM/WATT) | RPM | DRIVE | MAX SONES | APPROX WEIGHT (LBS) | CONTROL | ACCESSORIES/ REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | GREENHECK | CSP-A410 | CAB | PET WASH EXH | 200 | 0.375 | 58W | N/A | N/A | 987 | D | 1.0 | 23 | CM | 1, 2, 3, 4, 5 |

NOTES:
A. SELECTIONS ARE BASED ON A PROJECT ELEVATION OF 5310'. CFM HAS BEEN CORRECTED FOR ALTITUDE.
B. WEIGHTS INCLUDE ACCESSORIES, CURBS, MOTORS, ETC.
C. FANS THAT ARE INTERCONNECTED WITH LIGHTING CONTROLS (E.G. LIGHT SWITCH) MAY NOT BE THE SAME VOLTAGE AS THE LIGHTING CIRCUIT. COORDINATE WITH THE ELECTRICAL CONTRACTOR AND PROVIDE RELAYS/CONTROLS AS REQUIRED.
D. FANS SHALL BE CERTIFIED AND BEAR THE HVI-2100 OR AMCA LABEL FOR AIR AND SOUND PERFORMANCE.
E. FANS WITH SELECTABLE CFM SHALL BE SET TO THE APPROPRIATE SETTING DURING INSTALLATION PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FAN TYPES:
CAB - IN LINE CABINET
CC - CEILING CENTRIFUGAL

DRIVE TYPE:
D - DIRECT
B - BELT

FAN CONTROL NOTES:
CM - INTERLOCK WITH PET WASH LIGHTS ,
FAN TO RUN 30 MINUTES POST VACANCY.

ACCESSORIES:
1. GRAVITY BACKDRAFT DAMPER
2. FACTORY MOUNTED DISCONNECTING MEANS (CORD AND PLUG, SWITCH, ETC.)
3. EXTERIOR TERMINATION WITH INSECT SCREEN (1/4" X 1/4") - REFER TO DETAILS
4. SPEED CONTROLLER
5. ENERGY STAR

UNLESS NOTED OTHERWISE, SELECTIONS ARE BASED ON PRODUCTS BY GREENHECK OR MANUFACTURER NOTED.
EQUAL PRODUCTS: PENNBARRY, CARNES, COOK, ACME, TWIN CITY, AEROVENT, DELTA BREEZ, S & P USA, AND PANASONIC PROVIDED THE PRODUCTS MEET OR EXCEEED THE SCHEDULED PERFORMANCE AND SPECIFICATIONS.

## GRILLES, REGISTERS & DIFFUSERS

| TAG | SERIES | CFM | DUTY | NECK SIZE | FACE SIZE | DAMPER | MATERIAL | TYPE | NOTES/ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|
| A | 50F | SEE DWGS | EXHAUST | SEE DWGS | 24X24 | NO | ALUMINUM | 1/2 x 1/2 x 1/2 CORE | |
| B | 50F | SEE DWGS | MAKE UP | SEE DWGS | 24X24 | NO | ALUMINUM | 1/2 x 1/2 x 1/2 CORE | 1 |

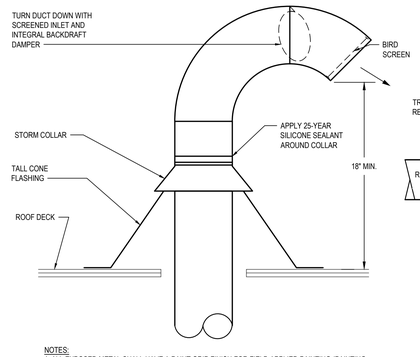
NOTES (APPLY TO ALL DEVICES UNO):
A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING, SUSPENSION SYSTEM AND FINISHES WHERE DEVICE WILL BE MOUNTED. FRAME AND BORDER TYPE SHALL BE COMPATIBLE WITH ADJACENT SURFACES AND FINISHES.
B. FINISH SHALL BE MANUFACTURER'S STANDARD. REFER TO ACCESSORIES/NOTES FOR CUSTOM FINISHES, IF ANY. SUBMIT COLOR CHART WITH SHOP DRAWINGS.
C. WHEN A DAMPER IS CALLED FOR ABOVE AND THE DEVICE IS TO BE MOUNTED IN AN INACCESSIBLE CEILING, EITHER A FACE ADJUSTABLE OR REMOTE CABLE OPERATED BALANCING DAMPER SHALL BE INCLUDED.
E. SELECTIONS SHALL BE BASED ON A MAXIMUM NC LEVEL OF 35.
F. SELECTIONS SHALL BE BASED ON A MAXIMUM PRESSURE DROP OF 0.10" WC INCLUDING THE DAMPER.

ACCESSORIES:
1. LIGHT SHIELD BACK PAN. 2. INSULATED BACKPAN

SELECTIONS ARE BASED ON PRODUCTS BY: TITUS.
EQUAL COMMERCIAL PRODUCTS: KRUEGER, CARNES, ANEMOSTAT, TUTTLE & BAILEY, PRICE, METALAIRE, NAILOR.

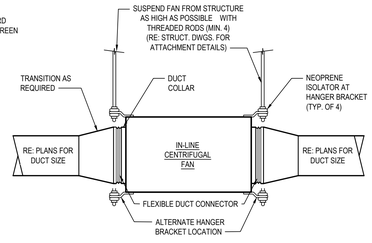
## MECH/ELEC COORDINATION

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL HVAC EQUIPMENT (VOLTAGE, PHASE, MCA, MOCP, ETC.) WITH THE ELECTRICAL CONTRACTOR AND THE ELECTRICAL PLANS PRIOR TO SUBMITTING OR ORDERING ANY MECHANICAL EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN THE MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND THE ELECTRICAL SERVICE, AS DESIGNED AND PROVIDED, SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR WITH NO ADDITIONS TO THE CONTRACT.

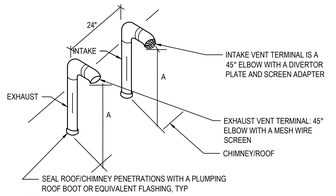



NOTES:
1. ALL EXPOSED METAL SHALL HAVE A PAINT GRIP FINISH FOR FIELD APPLIED PAINTING (PAINTING BY OTHERS).
2. FOR SLOPED ROOFS USE ADJUSTABLE FLASHING IN LIEU OF TALL CONE FLASHING.

EXHAUST GOOSENECK THRU ROOF DETAIL
NOT TO SCALE

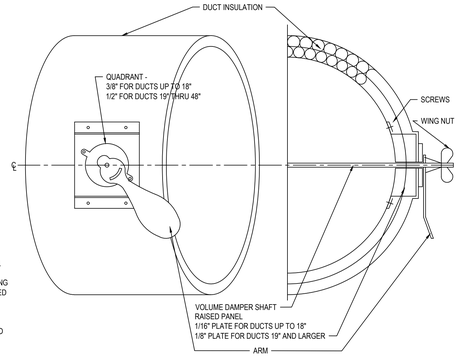



IN-LINE CENTRIFUGAL FAN DETAIL
NOT TO SCALE

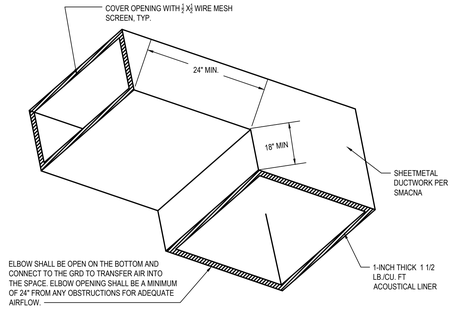



DETAIL NOTES:
1. EXTEND (DIMENSION A) VENT TERMINALS 12" ABOVE ROFF/CHIMNEY TOP.
2. THE INTAKE VENT & EXHAUST VENT TERMINATION MUST BE ORIENTED FACING DOWNWARD AND IN THE SAME ORIENTATION.
3. MAINTAIN 18" BETWEEN EXHAUSTS, IF THEY ARE LOCATED ADJACENT TO EACH OTHER.
4. EACH WATER HEATER HAS AN INTAKE AND EXHAUST VENT THRU ROOF/CHIMNEY.
5. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF VENTS & CONNECTING OF VENT'S TO WATER HEATERS. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED WHERE THERE IS A CONFLICT WITH THIS DETAIL.
6. PAINT VENTS FLAT BLACK.
7. ROUTE INTAKE & EXHAUST UP TO ROOF. PROVIDE MAXIMUM OF 4-90° ELBOWS ON EXHAUST FROM UNIT TO ROOF TERMINATION, AND 4 ELBOWS ON INTAKE FROM UNIT TO ROOF TERMINATION.

WATER HEATER VENTING THROUGH ROOF DETAIL
NOT TO SCALE




MANUAL VOLUME DAMPER DETAIL
NOT TO SCALE




TRANSFER ELBOW DETAIL
NOT TO SCALE

CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Architect: Dan Marta 469-455-1550; 1219

Project Manager: Cody Smith 214-542-8062

TSC Store #
Albuquerque, NM
465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY, STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

ANDREW H. SMITH
NEW MEXICO
16489
PROFESSIONAL ENGINEER
9-15-25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:
COPYRIGHT PKWY ARCHITECTS, LLC 2025

LEGENDS SCHEDULES AND DETAILS - MECHANICAL

M002

## TENANT IMPROVEMENT NOTES

THESE DRAWINGS, REPRESENTING EXISTING CONDITIONS, WAS PREPARED WITH LIMITED INFORMATION. EXISTING CONDITIONS AND USE OF THE SPACE DURING THE INITIAL EVALUATION MAY HAVE HAMPERED THE ENGINEERS EFFORTS IN DETERMINING THE CONDITION OF THE ASSOCIATED SYSTEMS. EXISTING DRAWINGS MAY NOT HAVE BEEN AVAILABLE AT THE TIME OF EVALUATION OR DURING THE COURSE OF DESIGN IN DEVELOPMENT OF THESE DRAWINGS. ANY SYSTEMS, SCHEDULES, AND EQUIPMENT SHOWN TO BE REVISED OR SHOWN FOR REFERENCE OF THE EXISTING CONDITIONS MAY HAVE BEEN ADDED TO, MODIFIED, OR REVISED AFTER THE DATE OF THE ORIGINAL EXISTING DRAWINGS (IF AVAILABLE).

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SCOPE OF WORK PRIOR TO SUBMITTING THE BID. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS AFFECTING THE INTENT OF THE DRAWINGS AND PROJECT SCOPE FOR A COMPLETE AND OPERABLE SYSTEM. RECOMMENDATIONS TO THE SYSTEMS AND COMPONENTS WHICH ARE PART OF A REGULAR MAINTENANCE SCHEDULE AND FOUND TO BE DEFECTIVE OR IN NEED OF REPAIR THAT AFFECT THIS PROJECT SCOPE SHALL ALSO BE IDENTIFIED. NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR DEVIATIONS WITHIN THESE SYSTEMS.

## KEYNOTES

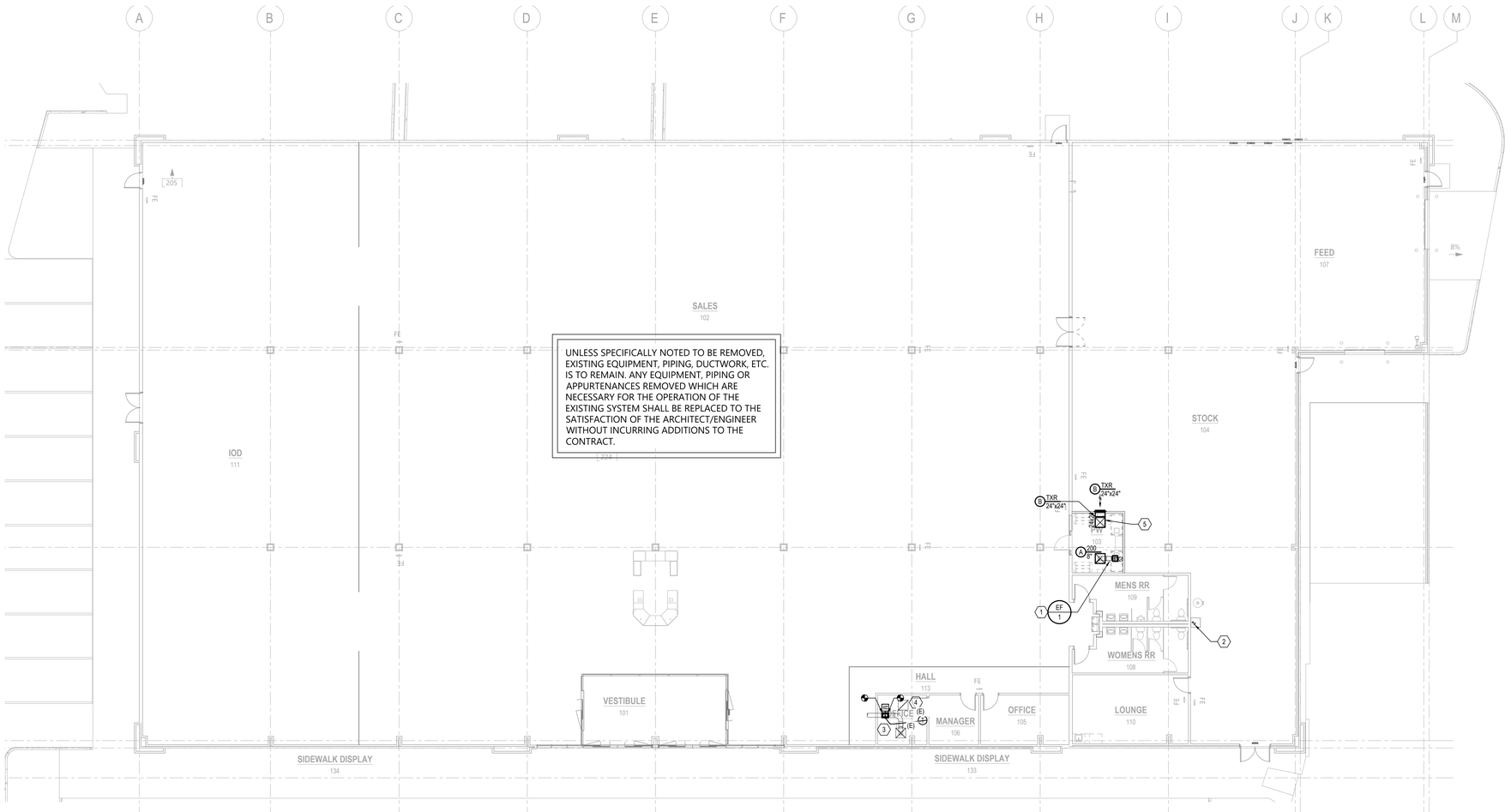
1. ROUTE 8"Ø EXHAUST TO 8"Ø GOOSENECK ROOF TERMINATION ON ROOF. LOCATION OF ROOF TERMINATION MUST BE GREATER THAN 10' AWAY FROM ANY FRESH AIR INTAKE. PROVIDE MODEL RGB-IE OR EQUAL. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.
2. EXTEND 4" PVC GAS FLUE AND COMBUSTION AIR INTAKE UP TO ROOF. SIZE COMBUSTION AIR AND FLUE PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFER TO MANUFACTURERS RECOMMENDATIONS FOR MATERIAL, CLEARANCES AND FLASHING DETAILS.
3. FURNISH AND INSTALL VAV DAMPER BY ZONEX, MODEL STMPD SIZED FOR EXISTING DUCTWORK, WITH SAMOD THERMOSTAT, TR-1 24V TRANSFORMER, AND TS-1 DUCT TEMPERATURE SENSOR. BALANCE AIRFLOW TO 290 CFM. PROGRAM SAMOD THERMOSTAT TO CLOSE DAMPER UPON DETECTION OF HEATED AIR. ROOM SHOULD BE COOLING ONLY.
4. RETURN DUCT OPEN TO SPACE. CAP WITH WIRE MESH - PROVIDE MANUAL VOLUME DAMPER IN RETURN AIR DUCT AND BALANCE FOR 290 CFM.
5. TRANSFER DUCT ATTACHED TO GRD. REFER TO DETAILS FOR MORE INFORMATION.

## EXISTING HVAC GENERAL NOTES

1. CLEAN AND INSPECT ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. WITHIN THE SCOPE OF WORK INDICATED TO REMAIN. AS REQUIRED, REPAIR AND SEAL DUCTWORK INDICATED TO REMAIN.
2. REPAIR ALL EXISTING DUCTWORK AND INSULATION INDICATED TO REMAIN TO LIKE-NEW CONDITION, INCLUDING ANY CONDITIONS ASSOCIATED WITH DEMOLISHED DUCTWORK.
3. CHECK, TEST AND CALIBRATE ALL EXISTING THERMOSTATS TO BE RE-USED. NOTIFY ARCHITECT IMMEDIATELY IF NOT WORKING PROPERLY.
4. IT SHOULD BE NOTED THAT SOME HVAC SYSTEMS ARE TO REMAIN. IF ANY OF THESE SYSTEMS ARE DAMAGED DURING THE PROGRESS OF CONSTRUCTION OR DEMOLITION, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT/ENGINEER WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
5. COORDINATE ALL DEMOLITION OF EQUIPMENT HAVING A POWER CONNECTIONS WITH THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL SHALL BE MADE SAFE PRIOR TO DEMOLITION.
6. OPENINGS IN DUCTWORK ASSOCIATED WITH DEMOLITION SCOPE THAT ARE NOT BEING USED FOR CONNECTIONS TO NEW WORK SHALL BE SEALED AIR-TIGHT AND RESTORED TO MATCH ADJACENT DUCTWORK AND INSULATION.

## HVAC GENERAL NOTES

1. VISIT THE SITE PRIOR TO SUBMITTING THEIR BID AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND HOW THE DESIGN WILL INTEGRATE WITH EXISTING SYSTEMS. SHOULD THE CONTRACTOR OBSERVE ANY CONFLICTS OR DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THEY SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING IMMEDIATELY. ONLY AFTER THE CONFLICT(S) HAVE BEEN RESOLVED AND THE DRAWINGS CORRECTED, SHOULD THE CONTRACTOR SUBMIT THEIR BID. ANY REQUIRED MODIFICATIONS NOT IDENTIFIED DURING THE SITE VISIT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
2. COORDINATE WITH THE TENANT AND BUILDING MANAGEMENT FOR ACCESS TO OTHER SPACES AND ANY SPECIAL LANDLORD REQUIREMENTS.
3. COORDINATE WORK ON MECHANICAL SHEETS WITH ALL TRADES. WORK SHOWN ON THE DRAWINGS IS INTENDED TO PROVIDE THE OVERALL ENGINEERING DESIGN CONCEPT AND DOES NOT ACCOUNT FOR RELOCATIONS, OFFSETS, ETC. THAT ARE REQUIRED BY THE COORDINATION OF TRADES. RELOCATIONS, OFFSETS, ETC. SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
4. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, DEVICES, AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF MECHANICAL WORK SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY DEPICT EXACT CONDITIONS. THE LOCATION OF EQUIPMENT, DUCTWORK, ETC. IS APPROXIMATE ONLY. SCALES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL DATA OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS AND SCALE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING IMMEDIATELY.
5. REPAIR AND/OR REPLACE ANY SYSTEMS, ARCHITECTURAL COMPONENTS, ETC. DAMAGED DURING THE COURSE OF CONSTRUCTION DUE TO THEIR WORK AT NO ADDITIONAL COST TO THE CONTRACT.
6. PROTECT ALL EQUIPMENT AND DUCTWORK DURING DEMOLITION, DELIVERY, STORAGE, HANDLING, AND INSTALLATION. THE CONTRACTOR SHALL UNDERTAKE THE APPROPRIATE PROTECTION MEASURES DURING THE COURSE OF CONSTRUCTION AS RECOMMENDED IN THE ANSI/SMACNA 008-2008 IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION, CHAPTER 3. ENSURE THAT DUST AND CONSTRUCTION DEBRIS ARE PREVENTED FROM ACCUMULATION WITHIN DUCTWORK AND EQUIPMENT. PROVIDE TEMPORARY FILTER MEDIA OVER RETURN AIR GRILLES TO PROTECT DUCTWORK FROM CONTAMINATION PRIOR TO AND DURING START-UP. DO NOT OPERATE AIR HANDLING SYSTEMS DURING CONSTRUCTION.
7. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS DO NOT INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT, OR LABOR REQUIRED TO PRODUCE A COMPLETE, SAFE, AND PROPERLY OPERATING INSTALLATION.
8. COORDINATE DUCTWORK, PIPING, AND EQUIPMENT WITH ALL BUILDING SYSTEMS, ETC. PRIOR TO ORDERING EQUIPMENT OR STARTING CONSTRUCTION.
9. COORDINATE ALL NEW THERMOSTAT SENSORS, HUMIDISTAT/DEMAND CONTROL VENTILATION SENSORS LOCATIONS IN THE FIELD AND WITH THE OWNER/TENANT PRIOR TO CONSTRUCTION AS NEEDED. MOUNT NO CLOSER THAN 8" FROM THE CORNER OR END OF A WALL. DO NOT LOCATE THERMOSTATS AT THE CENTER OR NEAR CENTER OF A WALL.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL AIR DEVICES, LIGHT FIXTURES, CABINETRY, EQUIPMENT, ETC. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL BUILDING SYSTEMS, ETC. PRIOR TO CONSTRUCTION.
11. ALL MECHANICAL EQUIPMENT, DAMPERS, VALVES, ETC. LOCATED ABOVE INACCESSIBLE CEILINGS SHALL HAVE A CEILING ACCESS PANEL (RE: ARCHITECTURAL DRAWINGS FOR SIZE AND TYPE) THAT IS PROVIDED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE ACCESS PANEL(S) WITH THE GENERAL CONTRACTOR AND ARCHITECT PRIOR TO INSTALLATION.
12. PROVIDE ALL OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED TO MAINTAIN CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. INCLUDE OFFSETS AND TRANSITIONS OVER OR UNDER NEW DUCTWORK AND OTHER BUILDING SYSTEMS WHETHER INDICATED ON THE DRAWINGS OR NOT.
13. OBSERVE ALL MANUFACTURER'S CLEARANCE AND INSTALLATION GUIDELINES FOR MECHANICAL EQUIPMENT.
14. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE NUMBER OF ELBOWS, TRANSITIONS, FITTINGS, ETC. TO REDUCE THE DUCT SYSTEM STATIC PRESSURE.
15. ROUND AND RECTANGULAR ELBOWS SHALL BE IN STRICT CONFORMANCE WITH SMACNA. SEGMENTED ELBOWS ARE NOT ALLOWED.
16. FIELD VERIFY AND PROVIDE RETURN AIR OPENINGS IN WALLS ABOVE THE CEILING WHICH ARE FULL HEIGHT FROM FLOOR TO STRUCTURE, AS NECESSARY, TO ALLOW A RETURN AIR PATH TO THE AIR HANDLING EQUIPMENT. RETURN AIR OPENINGS SHALL BE SIZED FOR A MAXIMUM OF 500 FPM. PROVIDE BALANCING DAMPERS AS REQUIRED. NOTIFY THE ENGINEER AND ARCHITECT OF SUCH CONDITIONS WHEN VISITING THE SITE.
17. PROVIDE BALANCING DAMPERS AT ALL BRANCH TAKE-OFFS TO SUPPLY, RETURN, AND EXHAUST DUCTS THAT SERVE INDIVIDUAL GRILLES, REGISTERS, AND DIFFUSERS.
18. SEAL ALL DUCT JOINTS, SEAMS, AND CONNECTIONS TO EQUIPMENT AIR-TIGHT PER THE GENERAL NOTES.
19. AIR DIFFUSERS SHALL BE INDEPENDENTLY SUSPENDED FROM THE STRUCTURE FROM ALL FOUR CORNERS WITH 18 GAUGE HANGER WIRE, COMPLETE WITH TURNBUCKLES AS REQUIRED FOR A LEVEL AND PLUMB INSTALLATION. SPACING OF HANGERS SHALL BE AS RECOMMENDED BY SMACNA.




1 FLOOR PLAN
SCALE: 3/32" = 1'-0"

CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Architect:
Contact: Dan Marta
469-455-1350; 1219

Project Manager:
Contact: CODY SMITH
214-542-8062

TSC TRACTOR SUPPLY CO.

# TSC Store # Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY, STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

ANDREW H. SMITH — NEW MEXICO — 14389 — PROFESSIONAL ENGINEER — 9.15.25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:
COPYRIGHT PKWY ARCHITECTS, LLC 2025

FLOOR PLAN - MECHANICAL

M101

Jordan & Skala Engineers
6201 West Plano Parkway, Suite 250 Plano, TX. 75093
p. 469.385.1616 f. 469.385.1615
Project Number: 25030263 Drawn By: FRM Checked By: KFE

## EXISTING HVAC GENERAL NOTES

1. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT LOCATION AND PLACEMENT OF OUTDOOR EQUIPMENT.
2. ALL ROOF PENETRATIONS ARE TO BE FLASHED AND SEALED BY THE LANDLORD'S APPROVED ROOFING CONTRACTOR. ALL PENETRATIONS SHALL BE SEALED WEATHER-TIGHT.
3. COORDINATE ALL ROOF OPENINGS AND PENETRATIONS WITH STRUCTURAL DRAWINGS. DUCT OPENINGS THROUGH THE ROOF SHALL BE AS REQUIRED FOR THE DUCT AND INSULATION ONLY. DUCTWORK SHALL BE COORDINATED WITH STRUCTURE, LIGHTING, SPRINKLERS, ETC. PRIOR TO FABRICATION AND INSTALLATION. ADJUST DUCTWORK ROUTING AND LOCATIONS AS REQUIRED TO AVOID CONFLICTS.
4. FALL PROTECTION (RE: ARCH. DWGS.): WHERE EQUIPMENT IS LOCATED WITHIN 10'-0" OF THE EDGE OF THE BUILDING AND THE PARAPET IS LESS THAN 42" HIGH, GUARDS OR RAILINGS WILL BE REQUIRED.
5. MAINTAIN ALL CODE REQUIRED DISTANCES BETWEEN OUTSIDE AIR INTAKES AND EXHAUST OUTLETS, VENTS, FLUES, PLUMBING VENTS, ETC.

## EXISTING RTU NOTES

1. THE MECHANICAL CONTRACTOR SHALL ASSUME THAT ALL UNITS WILL REQUIRE SHEAVE/PULLY/BELT REPLACEMENT AND ADJUSTMENT TO BRING THE UNITS INTO PROPER OPERATING CONDITION. DIRECT DRIVE FANS WILL REQUIRE A FIELD MOTOR TAP ADJUSTMENT TO ADJUST FAN SPEED AS NECESSARY.
2. ALL ROOFTOP UNITS SHALL BE CLEANED (INSIDE AND OUT) AND TESTED TO MEET THE MANUFACTURER'S PERFORMANCE LISTED AT AHRI CONDITIONS. ALL DAMAGED AND/OR NON-WORKING COMPONENTS SHALL BE REPLACED WITH NEW OEM REPLACEMENT PARTS. CONTACT THE ARCHITECT/ENGINEER IF ANY ROOFTOP UNIT(S) IS FOUND TO BE UNREPAIRABLE. DOCUMENT FINDINGS AND SUBMIT TO THE ARCHITECT/ENGINEER. REPLACE FILTERS WITH NEW FILTERS PRIOR TO TEST AND BALANCE.
3. ADJUST THE OUTSIDE AIR DAMPER TO PROVIDE THE MINIMUM VENTILATION RATES. IF THE OUTSIDE AIR INTAKE IS LOCATED LESS THAN 10'-0" FROM AN EXHAUST DISCHARGE OR PLUMBING VENT, EXTEND THE OUTSIDE AIR INTAKE OR PLUMBING VENT TO MAINTAIN THE 10' SEPARATION.
4. CONFIRM PROPER OPERATION OF THE ECONOMIZER. REPAIR OR REPLACE COMPONENTS AND CONTROLS AS NECESSARY TO PLACE INTO PROPER OPERATION.
5. PROVIDE NEW DUCT SMOKE DETECTOR (IF NOT ALREADY EQUIPPED) LOCATED PER APPLICABLE CODE. IF SMOKE DETECTOR IS EXISTING, TEST TO ENSURE PROPER WORKING CONDITION AND COMPATIBILITY WITH EXISITNG SYSTEMS. SEE HVAC GENERAL NOTES FOR ADDITIONAL INFORMATION. HVAC UNITS WILL RESTART AUTOMATICALLY ON MANUAL RESET OF SMOKE DETECTOR. COORDINATE WITH THE GENERAL CONTRACTOR/ELECTRICAL SUBCONTRACTOR TO VERIFY IF THE NEW DETECTOR WILL BE INTERCONNECTED TO THE FIRE ALARM SYTEM.

## KEYNOTES

1. ROUTE 8"Ø EXHAUST TO 8"Ø GOOSENECK ROOF TERMINATION ON ROOF. LOCATION OF ROOF TERMINATION MUST BE GREATER THAN 10' AWAY FROM ANY FRESH AIR INTAKE. PROVIDE MODEL RG8-IE OR EQUAL. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.
2. EXTEND 4" PVC GAS FLUE AND COMBUSTION AIR INTAKE UP TO CONCENTRIC VENT KIT THRU ROOF. SIZE COMBUSTION AIR AND FLUE PIPING AND INSTALL CONCENTRIC VENT KIT THRU ROOF PER MANUFACTURER'S RECOMMENDATIONS.
3. CLEAN AND INSPECT ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. WITHIN THE SCOPE OF WORK INDICATED TO REMAIN. AS REQUIRED, REPAIR AND SEAL DUCTWORK INDICATED TO REMAIN.




1 ROOF PLAN
SCALE: 3/32" = 1'-0"

CONSTRUCTION • ARCHITECTURE


PKWY

**PKWY Architects, LLC**
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

**Project Manager:** Contact: CODY SMITH 214-542-8062

**Architect:** Contact: Dan Marta 469-455-1550; 1219


TRACTOR SUPPLY CO.
TSC

# TSC Store # Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY, STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

ANDREW H. SMITH — NEW MEXICO — 16489 — REGISTERED PROFESSIONAL ENGINEER
9-15-25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC 2025

ROOF PLAN - MECHANICAL

M131


Jordan & Skala Engineers
6201 West Plano Parkway, Suite 250 Plano, TX. 75093
p. 469.385.1616 f. 469.385.1615

Project Number: 250302.63 Drawn By: FRM Checked By: KFF

## ELECTRICAL GENERAL NOTES

G1 ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NMEC, 2021 NMCECC UTILIZING THE ASHRAE 90.1 (2016) PRESCRIPTIVE PATH, 2021 NMCBC, & 2021 NMFC WITH LOCAL AMENDMENTS BY THE CITY OF ALBUQUERQUE

G2 WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT

G3 ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 90°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT LISTED FOR A MINIMUM OF 75°C TERMINATIONS. BRANCH CIRCUITS ARE SIZED BASED FOR 60°C TERMINATIONS AT LIGHT FIXTURES AND WIRING DEVICES.

G4 REFER TO THE APPROPRIATE DRAWINGS (INCLUDING ARCHITECTURAL, LANDSCAPING, INTERIORS, MECHANICAL, & PLUMBING DRAWINGS) FOR DIMENSIONS AND EXACT LOCATION OF EQUIPMENT UNDER THOSE DIVISIONS OF DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE

G5 CAPITAL LETTER BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SELECTIONS

G6 U.N.O. ALL BRANCH CIRCUITS SHALL INCLUDE GROUNDED (NEUTRAL) CONDUCTORS AND EQUIPMENT GROUNDING CONDUCTORS

G7 FIRE ALARM SYSTEM SHALL CONFORM TO NFPA 72 AND LOCAL REQUIREMENTS. FIRE ALARM SYSTEM AND DEVICES ARE SHOWN FOR DESIGN INTENT AND CODE COMPLIANCE. FIRE ALARM SYSTEM IS A DEFERRED DESIGN SYSTEM. FIRE ALARM CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CALCULATIONS, AND PRODUCT DATA MEETING THEIR SELECTED MANUFACTURER'S REQUIREMENTS AND SHALL SUBMIT TO THE FIRE MARSHAL FOR APPROVAL. FIRE ALARM SYSTEM SHALL BE COMPATIBLE WITH EXISTING SYSTEM BEING USED BY LANDLORD.

G8 ALL FIRE ALARM HORN AND STROBE DEVICES SHALL MATCH EXISTING COLOR, TYPE, AND STYLE, UNLESS OTHERWISE PROHIBITED.

G9 CONTRACTOR SHALL COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR QUANTITY AND LOCATION OF WATER FLOW AND VALVE TAMPER SENSORS. CONTRACTOR SHALL COORDINATE AND PROVIDE ADDITIONAL CIRCUIT(S) AS NEEDED FOR DRY SYSTEM COMPRESSORS ATTICS AND OTHER LOCATIONS AS NEEDED.

G10 U.N.O. ALL SMOKE & COMBINATION FIRE/SMOKE DAMPERS SHALL BE WIRED TO DESIGNATED CIRCUIT FOR DAMPERS.

G11 REFER TO ARCHITECTURAL DOOR SCHEDULES FOR DOORS REQUIRING FIRE ALARM SYSTEM INTERFACE AND SMOKE OPERATION. CONTRACTOR SHALL COORDINATE WITH ACCESS CONTROL CONTRACTOR AND PROVIDE 120V POWER AND FIRE ALARM CONNECTION TO DOOR CONTROLLERS AS NEEDED.

G12 ALL SERVICES, FEEDERS, AND BRANCH CIRCUITS NOT SPECIFICALLY SCHEDULED IN THESE DRAWINGS SHALL BE PROVIDED WITH COPPER CONDUCTORS.

G13 U.N.O. ALL 15A & 20A BRANCH CIRCUITS SHALL BE #12 AWG, ALL 25A AND 30A BRANCH CIRCUITS SHALL BE #10 AWG, AND ALL 40A BRANCH CIRCUITS SHALL BE #8 AWG. ALL OTHER BRANCH CIRCUITS NOT SCHEDULED, SHALL BE SIZED PER 310.16 USING THE 60°C COLUMN.

G14 FOR 120V BRANCH CIRCUITS LONGER THAN 75' AND 277V CIRCUITS LONGER THAN 250', CONTRACTOR SHALL INCREASE THE WIRE GAUGE FOR THE ENTIRE CIRCUIT BY ONE SIZE FOR EACH INCREMENT OF 100' FOR 120V CIRCUITS AND 200' FOR 277V CIRCUITS.

G15 CONTRACTOR SHALL PROVIDE RECEPTACLE, LIGHT, AND SWITCH AT ACCESSIBLE ATTIC ENTRY POINTS AND MECHANICAL CLOSETS PER 210.70(C) AND 210.63. RECEPTACLE SHALL BE GFCI PROTECTED PER 210.8(E)

G16 CONTRACTOR SHALL ENSURE THAT ALL PENETRATIONS THROUGH RATED ASSEMBLIES (VERTICAL OR HORIZONTAL) ARE SEALED WITH A UL RATED SYSTEM TO MAINTAIN THE RATING OF THAT ASSEMBLY. RATED ASSEMBLIES INCLUDE, BUT ARE NOT LIMITED TO SMOKE PARTITIONS, FIRE BARRIERS, FIRE WALLS, AND SOUND PARTITIONS. CONTRACTOR TO ENSURE THAT ALL JUNCTION BOXES IN RATED ASSEMBLIES ARE INSTALLED PER CLIV FIRE STOPPING SYSTEM, OR SHALL INSTALL A JUNCTION BOX THAT IS LISTED FOR 2-HOUR RATING PER CEYY FIRE STOPPING SYSTEM.

G17 ALL CIRCUITS SHALL BE INSTALLED WITH MC CABLE OR METAL RACEWAYS. ALL CIRCUITS AND FEEDERS INSTALLED UNDERGROUND OR OUTSIDE OF THE AIR BARRIER SHALL BE WET RATED.

G18 TO THE GREATEST EXTENT POSSIBLE, CONTRACTOR SHALL FIELD ADJUST CIRCUITS ON EACH PANEL TO BALANCE ALL PHASES WITHIN 10%.

G19 CONTRACTOR TO PROVIDE COMMISSIONING AS REQUIRED IN SPECIFICATIONS TO COMPLY WITH ENERGY CODE REQUIREMENTS. PLEASE CONTACT JAMES BRAUER WITH JORDAN & SKALA AT 469-385-1616 X13172 FOR COMMISSIONING SCOPE PROPOSAL REQUESTS.

## RENOVATION NOTES

R1. ALL EXISTING EQUIPMENT, WIRING DEVICES, LIGHTS, CONDUIT, WIRING, CIRCUITING, ETC. NOT DISTURBED BY NEW CONSTRUCTION WORK SHALL BE MAINTAINED AND UNDAMAGED. THESE DEVICES, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY. VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND FAMILIARIZE THEMSELVES WITH ALL WORK TO BE DONE AT THE JOB SITE. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.

R2. EXISTING SERVICES (ELECTRICAL, FIRE ALARM, ETC.) SHALL NOT BE INTERRUPTED WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES INVOLVED.

R3. ALL EXISTING EQUIPMENT IS ASSUMED TO BE IN COMPLIANT AND SERVICABLE CONDITION AND SHALL BE EXISTING TO REMAIN OR REUSED ON SITE TO THE GREATEST EXTENT POSSIBLE. CONTRACTOR SHALL INSPECT, VERIFY, AND TEST EXISTING EQUIPMENT AS NEEDED TO DETERMINE CONDITION AND SERVICABILITY OF EQUIPMENT. CONTRACTOR SHALL PROVIDE 1-YEAR WARRANTY FOR ALL EQUIPMENT EXISTING OR NEW STARTING AT SUBSTANTIAL COMPLETION.

R4. ALL PANELBOARDS SHALL BE LISTED TO COMPLY WITH UL 67. ALL SWITCHBOARDS SHALL BE LISTED TO COMPLY WITH UL 891. ALL DRY-TYPE LOW VOLTAGE (600V AND LESS) TRANSFORMERS SHALL BE LISTED TO UL 5085-1. ANY EQUIPMENT THAT IS MODIFIED IN PLACE WILL NEED TO BE FIELD EVALUATED BY A NRTL AND CERTIFIED TO BE COMPLIANT WITH APPROPRIATE UL STANDARD.

R5. MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO EXISTING SYSTEMS WHICH ARE TO REMAIN. DELIVER ALL "RECORD" DRAWINGS TO THE OWNER INDICATING SUCH CHANGES.

R6. DISCONNECT AND LABEL ABANDONED FEEDER AND CIRCUITS

R7. REMOVE ALL EXPOSED CONDUITS, CONDUITS ABOVE LAY-IN CEILINGS, OR EQUIPMENT WHICH IS ABANDONED

R8. WHERE NEW WORK INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SERVICE.

R9. ALL EQUIPMENT, FIXTURES, PANELBOARDS, CONDUIT AND WIRING THAT ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.

R10. EXISTING ROUGH-IN BOXES AND CONDUIT MAY BE UTILIZED IF THEY ARE OF PROPER SIZE AND IN SUITABLE LOCATION(S) FOR NEW CONSTRUCTION.DEVICES AND WIRING SHALL BE NEW.

R11. CIRCUIT ROUTINGS SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS, KEEP DEVICES AND/OR FIXTURE CIRCUITS APPROXIMATELY AS INDICATED TO LIMIT VOLTAGE DROP OF FEEDER AND BRANCH CIRCUITS.

R12. VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES AND PROTECT DURING THE COURSE OF THEIR WORK. EXISTING UTILITIES, BUILDING MATERIALS AND ANY ASSOCIATED ITEMS WHICH ARE DAMAGED BY CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE (IN A TIMELY MANNER) AND TO THE OWNER'S APPROVAL.

R13. COORDINATE THE REMOVAL OR RELOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT. DISCONNECT AND REMOVE ALL ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED OR RELOCATED. EXISTING CONDUIT AND ROUGH-IN MAYBE USED FOR RELOCATED OR NEW EQUIPMENT. ALL CONDUCTORS SHALL BE NEW.

R14. REMOVE ALL EXISTING DATA, TELEPHONE, FIRE ALARM CABLING AND ANY OTHER LOW VOLTAGE WIRING THAT ARE NOT TO BE USED.

R15. DESIGN IS BASED ON FIELD INFORMATION, AS-BUILT DRAWINGS AND OWNER FURNISHED INFORMATION. VERIFY ACCURACY OF ALL EXISTING CONDITIONS. IN CASE OF DISCREPANCY, PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, FITTINGS, ETC. FOR A COMPLETE OPERATING ELECTRICAL SYSTEM. ENTIRE INSTALLATION TO COMPLY WITH SPECIFICATIONS AND ADOPTED ELECTRICAL CODE.

R16. CONTRACTOR TO FIELD VERIFY EXISTING CONTACTOR PANEL WILL BE SUFFICIENT ENOUGH TO PROVIDE ADEQUATE SITE AND INTERIOR ZONES AS INDICATED ON LIGHTING PLAN. PROVIDE NEW CONTACTOR PANEL IF INADEQUATE AND/OR IF THERE IS INSUFFICIENT PANEL SPACE.

R17. INCLUDE ALLOWANCE FOR UNFORSEEN CONDITIONS THAT MAY EFFECT THE SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THIS ALLOWANCE.

## LIGHT FIXTURE NOTES

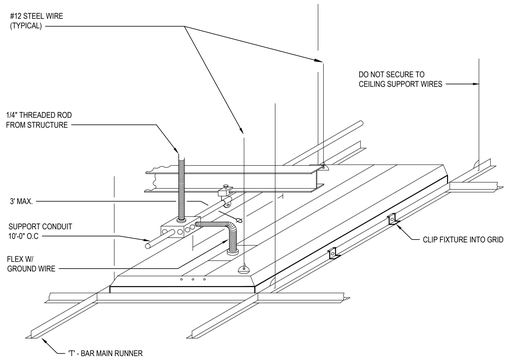
L1 ALL LIGHT FIXTURES MAY NOT BE USED.
L2 FINAL FIXTURE SELECTIONS TO BE SUBMITTED AND APPROVED BY OWNER & ARCHITECT
L3 ALL EXTERIOR FIXTURES TO HAVE COLD WEATHER DRIVERS
L4 ALL FIXTURES MUST BE LISTED BY A NRTL (UL, ETL, CSA). ALL LISTINGS TO BE FIELD VERIFIED BY CONTRACTOR TO BE COMPLIANT AND VALID.
L5 ALL OUTDOOR FIXTURES SHALL BE DAMP OR WET LISTED AS APPLICABLE TO INSTALLATION.
L6 ALL EXTERIOR AND SITE / LANDSCAPE LIGHTING MUST ADHERE TO ALL LOCAL LIGHTING ORDINANCES AND REQUIREMENTS. PROVIDE SHIELDING, GLARE CONTROL, AND HARDWARE OPTIONS & ACCESSORIES AS NEEDED TO COMPLY
L7 ALL RECESSED FIXTURES TO BE IC RATED. ANY RECESSED FIXTURE THAT PENETRATES A RATED CEILING MUST HAVE A FIRE BOX TO MAINTAIN THE RATING OF THAT ASSEMBLY.
L8 ALL FIXTURES IDENTIFIED AS EMERGENCY SHALL COMPLY WITH UL 924 AND SHALL CONTAIN A 90-MINUTE BATTERY. IF FIXTURE IDENTIFIED AS EMERGENCY IS NOT AVAILABLE WITH A FACTORY INSTALLED UL 924 DRIVER, THEN A FIELD INSTALLED DRIVER CAN BE INSTALLED ON THE FIXTURE (E.G. IOTA ILB-CP20-HE-AELR-HV), OR A MICRO INVERTER CAN BE USED FOR ALL FIXTURES IN THAT CIRCUIT AND A UL 924 RELAY IS TO BE PROVIDED TO OVERRIDE LIGHTING CONTROLS. ALL EM FIXTURES, FIELD INSTALLED DRIVERS, OR UL924 RELAYS TO BE POWERED FROM AN UNSWITCHED PHASE CONDUCTOR, AND SHALL HAVE A REMOTE TEST SWITCH LOCATED AT ACCESSIBLE LOCATION.
L9 ALL FIXTURES WITH DOUBLE-ENDED LAMPS TO HAVE INTEGRAL DISCONNECT PER 410.71

## LIGHTING CONTROL NOTES

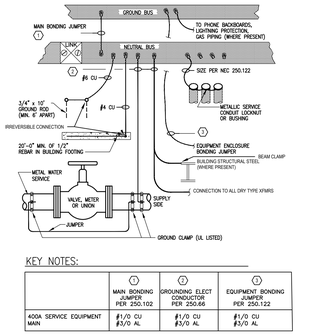
LC1 PER ASHRAE 90.1 9.1.2, THIS PROJECT IS NOT INCREASING THE CONNECTED LIGHTING LOAD BY MORE THAN 20%., AS A RESULT PROJECT IS EXEMPT FROM LIGHTING POWER DENSITY AND LIGHTING CONTROL REQUIREMENTS FROM CURRENT EDITION.
LC2 EXTERIOR LIGHTING TO BE CONTROLLED WITH EXTERIOR PHOTOCELL(S). PHOTOCELL TO BE FIELD LOCATED WITH OWNER / ARCHITECT AT A LOCATION NOT SUBJECT TO DIRECT SUNLIGHT AND ORIENTED NORTH.
LC3 IN BACK-OF-HOUSE SPACES SUCH AS STORAGE ROOMS, MECHANICAL ROOMS, AND OTHER UTILITY ROOMS PROVIDE OCCUPANCY BASED CONTROLS. SMALL SPACES CAN BE INSTALLED WITH WALL-MOUNTED PASSIVE IR WIRING DEVICES, LARGER SPACES TO HAVE CEILING OCCUPANCY SENSORS SPACED PER MANUFACTURER'S INSTRUCTIONS TO HAVE FULL COVERAGE. GENERAL LIGHTING TO AUTO-ON 100% WITH LOCAL MANUAL OFF. LIGHTS SHALL AUTO-OFF AFTER 20 MINUTES OF NO ACTIVITY.
LC4 IN SMALL OCCUPIED SPACES, PROVIDE WALL-MOUNTED OCCUPANCY BASED DIMING CONTROLS. LIGHTS SHALL AUTO-ON TO 50% WITH LOCAL MANUAL DIMING CONTROLS. LIGHTS SHALL AUTO-OFF AFTER 20 MINUTES OF NO ACTIVITY.
LC5 IN LARGE AMENITY SPACES WITH OCCUPANCY SENSORS INDICATED, CONTRACTOR TO PROVIDE OCCUPANCY SENSORS AS NEEDED TO MEET FULL COVERAGE OF SPACE BASED ON MANUFACTURER'S RECOMMENDATIONS. U.N.O ALL NON-EMERGENCY AND NON-DECORATIVE FIXTURES TO TURN OFF AFTER 20 MINUTES OF NO ACTIVITY.
LC6 U.N.O. IN AMENITY SPACES WHERE NO OCCUPANCY CONTROLS ARE SHOWN, CONTRACTOR TO PROVIDE SMART SWITCHES & DIMMERS THAT ARE WIRELESSLY CONTROLLED AND PROGRAMMED THROUGH A WEB OR APPLICATION BASED INTERFACE. PROGRAMMING SHALL BE COORDINATED WITH OWNERSHIP TO TURN OFF NON-EMERGENCY LIGHTING WITHIN 1 HOUR OF CLOSE OF BUSINESS. CONTRACTOR TO PROVIDE TRAINING AS NEEDED. ACCEPTABLE PRODUCTS INCLUDE LEGRAND RADIANT SMART, LEVITON DECORA SMART, AND LUTRON CASETA.

## ELECTRICAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERE | MCB | MAIN CIRCUIT BREAKER |
| AC | ALTERNATING CURRENT | MCC | MOTOR CONTROL CENTER |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | MF | MAIN FUSE |
| AFF | ABOVE FINISHED FLOOR | MH | MOUNTING HEIGHT |
| AIC | AMPERE INTERRUPTING CAPACITY | MLO | MAIN LUGS ONLY |
| AL | ALUMINUM | MT | MOUNT |
| ATS | AUTOMATIC TRANSFER SWITCH | MTG | MOUNTING |
| AWG | AMERICAN WIRE GAUGE | NC | NORMALLY CLOSED |
| BKR | BREAKER | NEC | NATIONAL ELECTRICAL CODE |
| CB | CIRCUIT BREAKER | NF | NON FUSED |
| CATV | COMMUNITY ANTENNA TELEVISION | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| CCTV | CLOSED CIRCUIT TELEVISION | NIC | NOT IN CONTRACT |
| CKT | CIRCUIT | NL | NIGHT LIGHT |
| CLG | CEILING | NO | NORMALLY OPEN |
| CPU | CENTRAL PROCESSING UNIT | NTS | NOT TO SCALE |
| CU | COPPER | P | POLE |
| CT | CURRENT TRANSFORMER | PNL | PANELBOARD |
| DC | DIRECT CURRENT | PVC | POLY-VINYL CHLORIDE |
| DN | DOWN | RC | REMOTE CONTROL |
| EX | EXISTING | RECPT | RECEPTACLE |
| E | EMERGENCY | REF | REFERENCE |
| FA | FIRE ALARM | RMS | ROOT MEAN SQUARE |
| FACP | FIRE ALARM CONTROL PANEL | ST | SHUNT TRIP |
| FDR | FEEDER | SYM | SYMMETRICAL |
| FL | FLOOR | SW | SWITCH |
| F | FUSE OR FUSED | SWBD | SWITCHBOARD |
| FVNR | FULL VOLTAGE NON REVERSING | TB | TERMINAL BOX |
| GEN | GENERATOR | TC | TIME CLOCK |
| GF | GROUND FAULT (DETECTOR) | TEL | TELEPHONE |
| GFCI/GFI | GROUND FAULT CIRCUIT INTERRUPTER | TV | TELEVISION |
| GRC | GALVANIZED RIGID STEEL CONDUIT | TYP | TYPICAL |
| G OR GND | GROUND | UG | UNDERGROUND |
| HT | HEIGHT | UL | UNDERWRITERS LABORATORY |
| HID | HIGH INTENSITY DISCHARGE | UNO | UNLESS NOTED OTHERWISE |
| HP | HORSE POWER | UPS | UNINTERRUPTED POWER SUPPLY |
| HOA | HAND-OFF-AUTOMATIC | V | VOLTS |
| HZ | HERTZ | VA | VOLT-AMPERE |
| ISO | ISOLATED | W | WATTS |
| JB | JUNCTION BOX | WP | WEATHERPROOF COVER (RECEPTACLES SHALL BE WEATHER-RESISTANT TYPE) |
| K | KILO, THOUSAND | | |
| KCMIL | THOUSAND CIRCULAR MILS | XFMR | TRANSFORMER |
| LED | LIGHT EMITTING DIODE | XP | EXPLOSION PROOF |
| M | MOTOR | Y | WYE |
| MATV | MASTER ANTENNA TELEVISION | Z | IMPEDANCE |



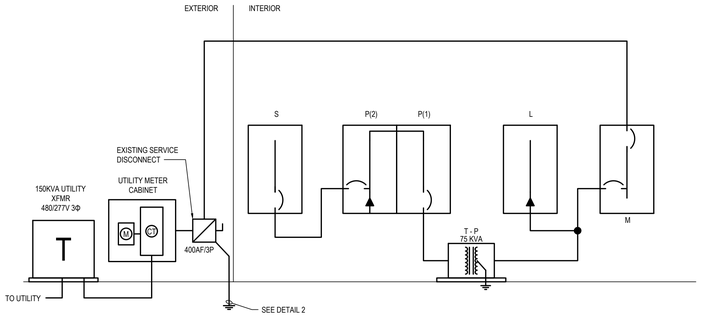

4 LAY-IN CEILING FIXTURE
SCALE: NO SCALE




KEY NOTES:

| | 1 MAIN BONDING JUMPER PER 250.102 | 2 GROUNDING ELECT CONDUCTOR PER 250.66 | 3 EQUIPMENT BONDING JUMPER PER 250.122 |
|---|---|---|---|
| 400A SERVICE EQUIPMENT MAIN | #1/0 CU #3/0 AL | #1/0 CU #3/0 AL | #1/0 CU #3/0 AL |

2 SERVICE GROUNDING AND BONDING
SCALE: NO SCALE




1 EXISTING RISER DIAGRAM
SCALE: NO SCALE

## GROUNDING NOTES

G1. THIS DETAIL SHOWS EXAMPLES OF ACCEPTABLE GROUNDING ELECTRODES PER 250.52. PLEASE NOTE THAT ALL GROUNDING ELECTRODES SHOWN ARE NOT REQUIRED. PER 250.50, IF ANY GROUNDING ELECTRODE IS PRESENT, THEN IT MUST BE BONDED TO THE COMMON GROUNDING ELECTRODE. IF MULTIPLE SERVICES AND GROUND ELECTRODES EXIST IN A BUILDING (FIRE AREA), THEN THEY MUST BE BONDED TOGETHER PER 250.58
G2. CONTRACTOR TO PROVIDE A LOCAL GROUNDING ELECTRODE FOR EACH SERVICE EQUIPMENT TO PROVIDE AN EFFECTIVE GROUND PATH. ALL ENERGIZED EQUIPMENT MUST HAVE AN EFFECTIVE GROUND FAULT CURRENT PATH PER 250.4
G3. PER 250.53(A), IF A ROD, PIPE, OR PLATE ELECTRODE IS USED, A SUPPLEMENTAL GROUNDING ELECTRODE MUST BE PROVIDED. (E.G. A SINGLE GROUND ROD MAY BE SUPPLEMENTED BY A METAL WATER PIPE ELECTRODE OR A 2ND GROUND ROD. SUPPLEMENTAL ELECTRODE MUST BE AT LEAST 6' AWAY.
G4. ALL GROUNDING ELECTRODE CONDUCTORS MUST BE PROTECTED FROM PHYSICAL DAMAGE PER 250.64(B)(2)
G5. ALL GROUNDING ELECTRODES MUST BE CONTINUOUS PER 250.64(C). ALL SPLICES AND CONNECTIONS SHALL BE MADE WITH IRREVERSIBLE CONNECTIONS. ANY MECHANICAL CONNECTIONS PROVIDED THAT ARE NOT EMBEDDED IN CONCRETE MUST BE ACCESSIBLE FOR SERVICING MAINTENANCE, AND INSPECTIONS.
G6. CONTRACTOR SHALL PROVIDE INTERSYSTEM BONDING TERMINATION CONNECTED TO THE BUILDING GROUNDING ELECTRODE WITH #6 CU AT ALL TELECOM ROOMS AND LOCATIONS PER 250.94.

## RISER AND SCHEDULE NOTES

S1 SERVICE ENTRANCE EQUIPMENT AND METERING IS EXISTING TO REMAIN AND IS NOT BEING SUBSTANTIALLY MODIFIED. EQUIPMENT SHALL CONFORM TO APPLICABLE EDITION OF NEC AT THE TIME IT WAS INSTALLED. UTILITY METER IS EXISTING AND CURRENTLY ACTIVE AND SHALL REMAIN AS CURRENTLY INSTALLED. CONTRACTOR TO COORDINATE WITH UTILITY AS NEEDED TO RESTART ELECTRIC SERVICE TO EXISTING BUILDING AS NEEDED.
S2 EACH ELECTRICAL SERVICE LOCATION MUST BE CLEARLY IDENTIFIED FOR FIRE DEPARTMENT TO LOCATE. ALL SERVICE DISCONNECTS MUST BE MARKED AS SUCH PER 230.70. IN BUILDINGS WITH MULTIPLE SERVICE DISCONNECTS, EACH DISCONNECT MUST BE MARKED WITH ITS NUMBER AND TOTAL NUMBER OF DISCONNECTS IN THE BUILDING (E.G. 1 OF 4). IN ADDITION, A PLAQUE MUST BE INSTALLED AT EACH SERVICE DISCONNECT AND AT THE FIRE DEPARTMENT RESPONSE POINT INDICATING THE LOCATION OF ALL SERVICE DISCONNECTS AND WHAT THEY SERVE PER 230.2(E). SERVICE EQUIPMENT SHALL ALSO BEAR ARC FLASH WARNING MARKINGS COMPLYING WITH 110.16, 110.24, AND NFPA 70E INDICATING THE VOLTAGE, SHORT CIRCUIT CURRENT RATING, AVAILABLE FAULT CURRENT, AND INCIDENT ENERGY OR CLEARING TIME OF THE SERVICE DISCONNECT. ALL MARKINGS SHALL BE PERMANENTLY AFFIXED AND OF SUFFICIENT MATERIALS TO WITHSTAND THEIR ENVIRONMENT PER 110.21(B).
S3 ALL ELECTRICAL EQUIPMENT INCLUDING PANELS, LOAD CENTERS, AND DISCONNECTS SHALL HAVE MARKINGS COMPLYING WITH 110.16, 110.24 & 408.6 FOR ARC FLASH, AVAILABLE FAULT CURRENT, & SHORT CIRCUIT CURRENT RATING OF EQUIPMENT, AND MARKINGS PER 110.22(A) & 408.4(B) INDICATING THE SOURCE OF SUPPLY AND DISCONNECT LOCATION.
S4 PROVIDE SURGE PROTECTION ON EQUIPMENT AS SCHEDULED. SPD ON SERVICE EQUIPMENT SHALL HAVE A DISCHARGE CURRENT ($I_n$) OF 20KA TO COMPLY WITH UL 96A. ALL OTHER SPD SHALL HAVE A DISCHARGE CURRENT NOT LESS THAN 10KA. ALL SPD SHALL HAVE A PROTECTION LEVEL PER MODE NOT LESS THAN TWICE THE AVAILABLE FAULT CURRENT AND A MINIMUM OF 50KA.
S5 ALL CIRCUIT BREAKERS ASSOCIATED WITH LIFE SAFETY SYSTEMS INCLUDING FIRE ALARM, ERRC, 2-WAY COMMUNICATION SYSTEMS, SMOKE CONTROL SYSTEMS, AND SPRINKLER COMPRESSORS SHALL BE COLORED RED, PROPERLY MARKED TO IDENTIFY THE SYSTEM OR EQUIPMENT, AND PROVIDED WITH AN APPROVED BREAKER LOCKING DEVICE PER NFPA 72. ADDITIONALLY, THE CIRCUIT AND LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE IDENTIFIED AT THE SYSTEM OR EQUIPMENT.
S6 PRIOR TO ORDERING ELECTRICAL EQUIPMENT, CONTRACTOR SHALL REVIEW EQUIPMENT FROM OTHER DISCIPLINES INCLUDING MECHANICAL, PLUMBING, AND ELEVATORS AND SHALL COORDINATE EQUIPMENT REQUIREMENTS AND TRIP SETTINGS WITH ACTUAL EQUIPMENT TO BE INSTALLED.
S7 PROVIDE GROUND FAULT PROTECTION FOR EQUIPMENT (GFPE) FOR ALL HEAT TRACE CIRCUITS PER 427.22
S8 CIRCUIT BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD LOCK DEVICE SO THAT ASSOCIATED CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY PER 240.15
S9 GFCI PROTECTION TO COMPLY WITH 210.8. PROTECTION MAY BE PROVIDED WITH CIRCUIT BREAKERS OR WIRING DEVICES.

## LIGHTING FIXTURE SCHEDULE

| TYPE | MFR | DESCRIPTION | MODEL | POWER | LUMENS | NOTES |
|---|---|---|---|---|---|---|
| A | LITHONIA | 8' SUSPENDED STRIP LIGHTS | CLX-L96-10000LM-SEF-FDL-MVOLT-GZ10, 40K-80CRI-WH | 63.7 W | 10000 | 1) WHERE FIXTURES ARE SHOWN TO BE CONTINUOUS, PROVIDE PLR1G OPTION 2) WHERE DESIGNATED EM TYPE, PROVIDE E10W OPTION |
| B | LITHONIA | 4' SUSPENDED STRIP LIGHTS | CLX-L48-5000LM-SEF-FDL-MVOLT-GZ10, 40K-80CRI-WH | 32 W | 10000 | 1) WHERE FIXTURES ARE SHOWN TO BE CONTINUOUS, PROVIDE PLR1G OPTION 2) WHERE DESIGNATED EM TYPE, PROVIDE E10W OPTION |
| D | LITHONIA | 6" EXTERIOR DOWNLIGHT | LDN6-40-30-L06-WR-LSS-TRW-MVOLT-GZ10 | 34.8 W | 3000 | WHERE DESIGNATED EM TYPE, PROVIDE ELRSD OPTION |
| W | LITHONIA | EXTERIOR WALL PACK | WDGE2-P3-40K-80CRI-T3M-MVOLT-SRM-DBLXD | 32 W | 3216 | WHERE DESIGNATED EM TYPE, PROVIDE E20WC OPTION |
| X | LITHONIA | EXIT SIGN | LQM-S-W-3-X-MVOLT-EL-N-M6 | 0.71 W | - | SELECT RED OR GREEN TO MATCH EXISTING FIXTURES |
| X-EM | LITHONIA | COMBO EXIT SIGN | LHQM-LED-X-M6 | 0.43 W | - | SELECT RED OR GREEN TO MATCH EXISTING FIXTURES |

## ELECTRICAL SYMBOL LEGEND

| SYMBOL | DESCRIPTION | HEIGHT |
|---|---|---|
| $ / $_3 / $_4 | SINGLE POLE SINGLE THROW / THREE-WAY / FOUR-WAY TOGGLE SWITCH (NOTE L-1, NOTE L-7) | 46" |
| $_M / $_3M / $_3L | MOTOR RATED SWITCH / KEYED SWITCH / TIMER SWITCH | 46" |
| Φ / Φ_3 | DIMMER SWITCH (NOTE L-1) / THREE-WAY DIMMER SWITCH (NOTE L-1, NOTE L-7) | 46" |
| $_SC | PUSH BUTTON SCENE CONTROLLER (NOTE L-1, NOTE L-7) | 46" |
| OS / OS | OCCUPANCY SENSOR CEILING MOUNTED / WALL MOUNTED - SEE LIGHTING CONTROL NOTES | |
| SINGLE / DUPLEX / QUAD | SINGLE / DUPLEX / QUAD RECEPTACLE OUTLET (NOTE L-1) | 18" |
| GFCI DUPLEX / GFCI DUPLEX ABOVE COUNTER / GFCI QUAD | GFCI DUPLEX / GFCI DUPLEX ABOVE COUNTER / GFCI QUAD RECEPTACLE (NOTE L-1) | 18"/43" |
| DUPLEX / QUAD / GFCI QUAD | DUPLEX / QUAD / GFCI QUAD RECEPTACLE OUTLET ABOVE COUNTER MOUNTED (NOTE L-1) | 43" |
| DUPLEX / DUPLEX AC | DUPLEX RECEPTACLE OUTLET WITH (2) DC USB CHARGING PORTS / ABOVE COUNTER | 18"/43" |
| DUPLEX GF / DUPLEX GF AC | DUPLEX GF PROTECTED RECEPTACLE OUTLET WITH (2) DC USB CHARGING PORTS / ABOVE COUNTER | 18"/43" |
| | SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG. (NOTE L-1) | 18" |
| | SPLIT WIRED DUPLEX RECEPTACLE. ONE RECEPTACLE SHALL BE CONTROLLED (NOTE L-1) WHERE USED TO CONSERVE ENERGY, RECEPTACLE SHALL BE SUITABLY MARKED PER NEC REQUIREMENTS. | 18" |
| | DUPLEX RECEPTACLE OUTLET, CEILING MOUNTED / FLOOR MOUNTED / CLOCK (WALL RECESSED) | |
| | MULTI-OUTLET ASSEMBLY WITH OUTLETS ON CENTERS AS INDICATED IN NOTES OR SPECIFICATIONS MOUNT 6" ABOVE COUNTER OR AS INDICATED | |
| | FIRE-RATED POKE-THRU DEVICE | |
| | JUNCTION BOX, CEILING / WALL / FLOOR MOUNTED | |
| X-1,3,5 | ARROWHEAD INDICATES HOMERUN. X-1,3,5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X CIRCUIT NUMBERS 1,3, AND 5. | |
| | RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING | |
| | RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING - EMERGENCY CIRCUIT | |
| | GROUNDING CONNECTION (SYSTEM AND/OR EQUIPMENT) | |
| | CONDUIT STUB. TERMINATE IN INSULATED BUSHING OR CAP IF UNDERGROUND | |
| | LIGHTING FIXTURE, 2X4, 1X4, 2X2 | |
| | LIGHTING FIXTURE, 2X4, 1X4, 2X2 - PROVIDING EMERGENCY ILLUMINATION | |
| | LIGHTING FIXTURE RECESSED / SURFACE MOUNTED / OVERHEAD/WALL MOUNTED | |
| | EMERGENCY LIGHTING FIXTURE RECESSED / SURFACE MOUNTED / OVERHEAD/WALL MOUNTED | |
| | STRIP FIXTURE - OVERHEAD / WALL MOUNTED | |
| | DIRECTIONAL OR WALL WASH LIGHTING FIXTURE | |
| | LIGHT TRACK AND LIGHT TRACK FIXTURES | |
| | POLE MOUNTED LIGHT FIXTURE WITH ARM. SEE PLANS FOR NUMBER OF LUMINAIRES. | |
| | POST TOP OR BOLLARD LIGHT FIXTURE | |
| | CEILING/PENDANT MOUNTED PADDLE FAN | |
| |

# SPECIFICATIONS

1.01 SCOPE
- A. Install all electrical work covered by these specifications and approved drawings. Provide all material, labor, transportation, tools supervision, etc., necessary to complete the total electrical job. All items not specifically mentioned herein which are obviously necessary to make a complete working installation shall be provided.
- B. Electrical components including but not limited to conductor size, overcurrent protective device and disconnect switches are based on power requirements for equipment specified as shown on the contract documents. Prior to installing work, contractor shall coordinate electrical requirements with equipment of all trades requiring electrical connections.
- C. Final connections to equipment shall be per manufacturer's approved wiring diagrams, details and instructions. It shall be the contractor's responsibility to provide materials and equipment compatible with actual equipment supplied.
- D. Verify exact locations of existing and new underground utilities, piping and raceway systems prior to trenching. Provide necessary trenching, backfill, excavation, supports, services (conduit and/or wire), pullboxes, transformer pads, sawcutting and patching, concrete/paving, etc. as required. Contractor shall obtain and verify exact utility company drawings and requirements.
- E. Examination of Bidding Documents
  1. Each bidder shall examine the bidding documents carefully and make written request to the architect for interpretation or correction of any discrepancies, ambiguity, inconsistency or error therein. Any interpretation or correction will be issued by the architect as an addendum. Only written interpretation or corrections by addendum shall be binding. Contractor shall include in his bid labor, materials and methods of construction for complete installation. After award of contract, no allowance or extra compensation will be made on behalf of the contractor due to his failure to make the written requests as described above.
  2. Failure to request clarification of any inadequacy, omission or conflict will not relieve the contractor of responsibility. The signing of the contract will be considered implicitly denoting that the contractor has a thorough comprehension of the full intent and scope of the working drawings and specifications.

1.02 CODES AND FEES
- A. All work shall conform to all ordinances and regulations of the City, County, State and/or other authorities having jurisdiction in accordance with the requirements of the following codes, standards and design guides:
  1. The 2020 edition of the National Electrical Code (NFPA 70) with local Amendments
  2. The 2021 edition of the International Building Code with local Amendments
  3. The 2018 edition of the International Energy Conservation Code (IECC) using ASHRAE 90.1-2019 prescriptive compliance path
  4. The 2021 edition of the Life Safety Code (NFPA 101)
  5. Regulations of the local utility company with respect to metering and service entrance
  6. Local city and county ordinances governing electrical work
  7. Americans with Disabilities Act (Public Law 101-336)
- B. The contractor shall obtain and pay for all permits and inspections required by the building and safety codes and ordinances, and the rules and regulations of any legal body having jurisdiction.

1.03 WORKMANSHIP
- A. The drawings are diagrammatic and indicate the general arrangement of electrical equipment. Coordinate device locations with door swings, cabinets, counters, etc., as indicated on the architectural drawings. Do not scale electrical plans. Obtain dimensions for layout of equipment from architectural plans unless indicated on electrical plans.
- B. Coordinate with all other trades and subcontractors performing work on this project. Minor offsets in locations of fixtures, devices, etc. shall be made to avoid conflicts with other trades. Such modifications shall be approved by the architect prior to the work being performed.
- C. Mounting heights, unless otherwise noted, are to the center line of the equipment and/or device except the mounting height of suspended light fixtures which is to the bottom of fixture.
- D. Contractor shall be responsible for replacing equipment which is damaged due to incorrect field wiring provided under this section or factory wiring in equipment provided under this section.
- E. All equipment and material for similar applications or systems shall be provided from the same manufacturer unless noted otherwise.

1.04 SUBSTITUTIONS
- A. All cost incurred by the acceptance of substitutions shall be borne by the contractor. Proof for the quality of substitutions shall be by the contractor.

1.05 NRTL LISTING
- A. All electrical items covered by this specification shall be listed and labeled by a Nationally Recognized Testing Lab (NRTL) and shall conform to the U.L. standard for their specific use.

1.06 ELECTRICAL SERVICE
- A. The electrical contractor shall pay all costs required by the local utility company providing services indicated. Electrical contractor shall coordinate metering, transformer pad, connection points and grounding with utility company.
- B. All service entrance equipment including but not limited to any main disconnect switch, panel, or switchboard shall be listed and labeled as "suitable for use as service entrance equipment".

1.07 COMMISSIONING
- A. The following systems shall be commissioned in accordance with the requirements of the 2019 ASHRAE 90.1:
  1. Occupant Sensor controls
  2. Time Switch controls
  3. Daylight responsive controls
- B. Programming of sensors, controls, switches, schedules, VFD operation and other systems shall be set by the installing contractor.
- C. The following shall be provided to the building owner or owner representative within 90 days after the date of system acceptance.
  1. Submittals, Shop drawings
  2. Installation instructions, operations and maintenance instructions for each piece of equipment and system installed.
  3. Maintenance schedule
  4. Names and address of at least one service agency.
  5. Lighting controls system maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions. Desired or field determined set-points shall be permanently recorded on control drawings at control devices or for digital control systems, in programming comments.
  6. A complete narrative of how each system is intended to operate, including suggested setpoints.

1.08 WARRANTY
- A. Work shall be warrantied for a period of one (1) year from the date of acceptance by the owner.

1.09 SPECIFICATIONS
- A. Grounding
  1. The building electrical systems shall be solidly grounded. All non-current carrying metal parts of the electrical system, i.e., raceways, equipment enclosures, frames, junction and outlet boxes and other conductive items in close proximity with electrical circuits, shall be grounded to provide a low impedance path for potential ground faults.
  2. Equipment grounding conductor shall be installed in all raceways and cables.
  3. The neutral and ground bus shall be bonded together at all service equipment.
- B. Raceways and Conduits
  1. Conduits installed in direct contact with grade or within concrete slabs shall be schedule 40 PVC.
  2. Conduits concealed within walls and above ceilings and exposed in indoor areas shall be electrical metallic tubing (E.M.T.).
     a. Electrical metallic tubing (EMT) couplings and connectors shall be steel. Malleable iron, pressure cast or die cast fittings are not permitted.
     b. Fittings and couplings shall be set-screw type and/or compression type. Steel set screw type for 2.5" conduit and larger shall have 2 screws for connectors and 4 screws for couplings. All connectors shall be insulated throat type.
     c. Rigid steel and IMC couplings and connectors shall be standard threaded couplings, locknuts, bushings and elbows. All materials shall be steel. Erickson-type couplings may be used to complete a conduit run.
  3. Conduits shall be run parallel or at right angles to walls, ceilings, and structural members.
  4. Liquid tight flexible metal or non-metallic conduit shall be used for outdoor exposed connections to ground- or roof-mounted equipment.
  5. Use flexible conduit for connections to motors, dry type transformers, unit heaters, kitchen equipment, flush mounted lighting fixtures, and any vibrating equipment.
     a. Flexible conduit used for connection of motors, dry type transformers, electric duct heaters, unit heaters, and bus duct tap devices shall not exceed 36 inches in length.
     b. Flexible conduit from outlet box to flush mounted lighting fixture shall not exceed 6 feet in length.
     c. Maintain ground continuity through flexible conduit with green equipment grounding conductor; do not use flexible conduit for ground continuity.
     d. Flexible conduit installed within plenum spaces shall be limited to lengths not exceeding 4 feet.
     e. Liquid tight flexible conduit shall be used to connect equipment in exterior, damp or wet locations.
  6. All raceways shall be installed concealed except in unfinished spaces or where indicated on the drawings.
  7. Fasteners and supports shall be as manufactured by Gedney, Efcor or equal. Supporting devices shall be those as manufactured for a specific purpose. Nails, wire or pipe strap shall not be used.
  8. Provide flexible expansion conduit fittings on all conduit crossing expansion joints. See Architectural plans for expansion joint locations.
  9. Conduit shall be installed for any feeders on the supply side of any panelboard supplying branch circuits for pools, spas or hot tubs.
- C. Conductors
  1. All branch circuit conductors shall be copper, 90°C, THHN/THWN insulation.
  2. No conductor shall be smaller than No. 12 AWG unless otherwise specified or noted
  3. Unless noted otherwise, service and feeder conductors shall be copper, THHN/THWN-2 insulation. Where approved, aluminum conductors shall be compact, AA-8000 Series, XHHW-2. 90°C.
  4. Wire No.8 AWG and larger shall be stranded, No.10 and smaller shall be solid.
  5. All branch circuit and feeder conductors, No. 8 AWG and smaller, shall be color coded as follow (where approved by the authority having jurisdiction).

     **120/208 Volt System277/480 Volt System**Phase A -BlackPhase A - BrownPhase B - RedPhase B - OrangePhase C - BluePhase C - YellowNeutral - WhiteNeutral - GrayGround - GreenGround - Green
  6. MC Cable shall be limited to branch circuits concealed in walls and above ceilings, and may not be run directly into surface mounted equipment. All circuit homeruns from the panelboard to the first branch circuit device shall be routed in conduit. MC cable shall not be allowed for wiring to mechanical equipment
  7. Sizes indicated are for installation in a maximum 30 degree C ambient.
- D. Outlet/Junction Boxes
  1. All outlet/junction boxes shall be galvanized steel. Thermoplastic boxes shall be acceptable for use where NM cable is approved.
  2. Wall and ceiling outlet boxes shall be 4" square, with a depth of 2 ½". Ceiling boxes shall be 4" octagonal where required due to number of wires.
  3. Where boxes are installed back-to-back in walls and located less than 24" apart, moldable putty pads shall be installed to maintain the required fire rating.
- E. Switchboards
  1. Acceptable Manufacturers: Products of the following manufacturers, which comply with these Specifications, are acceptable:
     a. Square D
     b. Siemens
     c. Eaton / Cutler-Hammer
  2. Dimensions noted on the Drawings are the maximum allowable and shall not be exceeded. Where switchboard(s) of acceptable manufacturers listed exceed the maximum dimensions, products of such manufacturers shall not be acceptable.
  3. Install switchboard on 3" high concrete pad, the horizontal dimensions of which shall exceed the base dimensions of the switchboard by 3" on all sides.
  4. Switchboard sections shall be fully bussed.
  5. All busses shall tin-plated aluminum, rated for a 65 degrees C temperature rise above a 40 degrees C ambient. The minimum bus bracing, in RMS-symmetrical-amperes, shall be as shown on the Drawings.
  6. All terminal lugs shall be UL Labeled for AL or CU conductors rated for 75 degrees C.
  7. The main protective device(s) shall be insulated case circuit breaker(s) and employ fixed type mounting. The devices shall be individually mounted in the switchboard.
  8. Provide molded case circuit breakers for the distribution protective devises unless noted otherwise on the drawings.
  9. Provide surge protective devices (SPD) integral to the switchboard assembly that is listed, and component recognized in accordance with UL 1283 and UL 1449 Third Edition. SPD shall be installed by and shipped from the electrical distribution equipment manufacturer's factory as an integral device to the electrical equipment, and shall be serviceable while the switchboard is energized.
- F. Panelboards
  1. Panelboard Manufacturer shall be:
     a. Square D
     b. Siemens
     c. Cutler Hammer
  2. Dimensions noted on the Drawings are the maximum allowable and shall not be exceeded.
  3. All bus bars shall be aluminum.
  4. Panelboard shall have bolt-in circuit breakers and aluminum bussing. Where applicable, load centers shall have plug-in breakers and aluminum bussing.
  5. Overcurrent protective devices shall be automatic trip thermal magnetic type with quick-make quick-break for both manual and automatic operation. All multipole breakers shall be common trip; handle ties will not be accepted.
  6. Typewritten directories and panelboard designation plates shall be provided by the contractor for all panelboards. Panelboard designations shall be phenolic-engraved. Also bearing the equipment name where its power supply originates (if panelboard is serviced by a feeder).
  7. Provide permanently attached labels for each branch circuit, feeder, and main circuit breaker in distribution panels.
  8. Wire termination provisions for panelboards, circuit breakers, safety switches and all other electrical apparatus shall be listed as suitable for 75 degree C, minimum.
- G. Identification
  1. Equipment or devices specified in the individual sections to be identified shall be identified by machine cut stencil unless the equipment is identified by the manufacturer. Identification of flush mounted cabinets and panelboards shall be on the inside of the device. Surface mounted equipment shall be identified on the outside cover. Equipment operating on 208Y/120 volt system shall be identified with black labels with white inner core, 480Y/277 volt equipment with red labels with white inner core.
  2. All switchboards and panelboards supplied by a feeder shall be stencil-labeled to indicate the equipment where the power supply originates.
  3. Each disconnecting means shall be stencil-labeled to indicate its purpose unless located and arranged so the purpose is evident. The label shall include the identification of the circuit source that supplies the disconnecting means.
- H. Short Circuit and Protective Device Study
  1. Contractor shall provide a Short Circuit and Protective Device Study to verify the proposed equipment ratings and protective device ratings. The study shall be performed by a licensed professional engineer or other qualified persons engaged primarily in the design, installation, or maintenance of electrical systems.
  2. The scope of the study shall include all proposed distribution equipment supplied under this contract.
  3. Contractor shall obtain, in writing, the short circuit current value at the main service switchboard for the specific project location from the utility.
  4. All service equipment shall be legibly marked in the field with the maximum available fault current and the date the fault current calculation was performed in accordance with NEC 110.24.
  5. A copy of the Short Circuit and Protective Device Study shall be included in the shop drawing submittals for the equipment, and made available to those authorized to design, install, inspect, maintain, or operate the system.
- I. Protective Device Coordination Study
  1. Overcurrent protective devices shall be selectively coordinated for distribution systems serving emergency and standby loads, as well as those serving multiple elevators, for faults with durations at 0.02 seconds.
  2. Contractor shall provide a protective device coordination study for:
     a. Distribution systems required to be selectively coordinated that contain circuit breakers.
     b. Distribution systems containing breakers with adjustable trip settings.
     c. Distribution systems requiring arc-flash analysis.
  3. The study shall be performed by a licensed professional engineer or other qualified persons engaged primarily in the design, installation, or maintenance of electrical systems.
  4. A copy of the Protective Device Coordination Study shall be included in the shop drawing submittals for the equipment, and made available to those authorized to design, install, inspect, maintain, or operate the system.
- J. Arc Flash Labeling
  1. Arc flash labels shall be factory provided and installed in accordance with NFPA 70.
  2. A permanent label shall be factory applied to service equipment rated 1200 amps or more. The label shall meet the requirements of NFPA 70 and contain the following information:
  3. Nominal system voltage
  4. Available fault current at the service overcurrent protective devices
  5. The clearing time of service overcurrent protective devices based on the available fault current at the service equipment
  6. The date the label was applied
- K. Arc Flash Safety
  1. The Contractor shall furnish an Arc Flash Hazard Analysis Study per NFPA 70E - Standard for Electrical Safety in the Workplace, reference Article 130.3 and Annex D, and IEEE 1584 - Guide for Performing Arc Flash Hazard Calculations.
  2. Arc Flash Hazard Analysis
     a. Manufacturer of switchboards and panelboards shall provide an arc flash hazard analysis for the electrical distribution system. Include this study in the shop drawing submittals for the equipment.
     b. The arc flash hazard analysis shall be performed according to the IEEE 1584 equations that are presented in NFPA70E.
     c. When appropriate, the short circuit calculations and the clearing times of the phase overcurrent devices will be retrieved from the short-circuit and coordination study model. Alternative methods shall be presented in the proposal.
     d. The flash protection boundary and the incident energy shall be calculated and reported at all significant locations in the electrical distribution system (switchboards, switchgear, motor-control centers, panelboards, busway and splitters) where work could be performed on energized parts.
     e. The arc flash hazard analysis shall include all MV, 575v, and 480v locations and locations in 240 volt and 208 volt systems rated 400 amps and above.
     f. Safe working distances shall be specified for calculated fault locations based upon the calculated arc flash boundary considering an incident energy of 1.2 cal/cm2.
     g. The arc flash hazard analysis shall include calculations for maximum and minimum contributions of fault current magnitude. The minimum calculation shall assume that the utility contribution is at a minimum and shall assume a minimum motor load. Conversely, the maximum calculation shall assume a maximum contribution from the utility and shall assume motors to be operating under full-load conditions.
     h. Arc flash computation shall include both line and load side of main breaker calculations, where necessary.
     i. Arc flash calculations shall be based on actual overcurrent protective device clearing time. Maximum clearing time will be capped at 2 seconds based on IEEE 1584.
     j. The report shall indicate incident energy and flash protection boundary calculations as follows:
        1) Arcing fault magnitude
        2) Device clearing time
        3) Duration of arc
        4) Arc flash boundary
        5) Working distance
        6) Incident energy
        7) Hazard risk category
        8) Recommendations for arc flash energy reduction
- L. Arc Flash Warning Labels
  1. Contractor shall field-install arc flash labels on equipment that includes the available incident energy and required personnel protective equipment (PPE).
  2. The vendor shall provide a 3.5 in. x 5 in. thermal transfer type label of high adhesion polyester for each work location analyzed.
  3. The label shall have an orange header with the wording, "WARNING, ARC FLASH HAZARD," and shall include the following information:
     a. Location designation
     b. Nominal voltage
     c. Flash protection boundary
     d. Hazard risk category
     e. Incident energy
     f. Working distance
     g. Engineering report number, revision number and issue date
  4. Labels shall be machine-printed, with no field markings.
  5. Arc flash labels shall be provided in the following manner and all labels shall be based on recommended overcurrent device settings:
     a. For each 600, 480 and applicable 208 volt panelboards and disconnects, one arc flash label shall be provided.
     b. For each motor control center, one arc flash label shall be provided.
     c. For each low voltage switchboard, one arc flash label shall be provided.
     d. For each switchgear, one flash label shall be provided.
     e. For medium voltage switches, one arc flash label shall be provided.
  6. Labels shall be field-installed by the engineering service division of the equipment manufacturer under the Startup and Acceptance Testing contract portion.
- M. Lighting Fixtures
  1. Electronic driver for LED luminaires:
     a. Operation Voltage: The luminaire shall operate from a 60 HZ ±3 HZ AC line over a voltage ranging from 120-277 VAC and 347 VAC. All drivers shall not utilize step down transformers to achieve operating voltage. The fluctuations of line voltage shall have no visible effect on the luminous output.
     b. Operational Performance: The driver and LED circuitry shall prevent visible flicker to the unaided eye over the voltage range specified above.
     c. RF Interference: LED Drivers must meet Class A emission limits referred in Federal Communications Commission (FCC) Title 47, CFR Part 15, class A regulations concerning the emission of electronic noise.
     d. Total harmonic distortion (current and voltage) induced into an AC power line by a luminaire shall not exceed 20 percent.
  2. LED Luminaires
     a. Each Luminaire shall consist of an assembly that utilizes LEDs as the light source. In addition, a complete luminaire shall consist of a housing, LED array, and electronic driver (power supply). Drivers shall have 2.5kVA surge protection.
     b. Reported lumen maintenance shall be greater than 86% per TM-21-11 after 60,000 hours of luminaire operation in an ambient environment of 25°C (77°F). This data must be TM-21 compliant and derived from the EnergyStar.gov TM-21 Calculator.
     c. The individual LEDs shall be constructed such that a catastrophic loss or the failure of one LED will not result in the loss of the entire luminaire.
     d. Each luminaire shall be listed with Underwriters Laboratory, Inc. under UL1598 for luminaires, or an approved equivalent standard from a nationally recognized testing laboratory.
     e. The color rendition index (CRI) shall be a nominal 80 for interior lighting and a nominal 70 for exterior lighting.
     f. 5 Year warranty minimum
     g. Luminaire shall be tested to LM-79, LM-80 and TM-21 standards
     h. The luminaire shall have a power factor of 0.9 or greater.
- N. Wiring Devices
  1. Commercial Grade
     a. Duplex receptacles shall be rated 20 AMP, Hubbell CR5362 or approved equal.
     b. Toggle switches shall be 20 AMP, Hubbell CS1221 or approved equal.
     c. Dimmer switches shall be slider type, Lutron Nova T series. Contractor to confirm dimmer is fully compatible with the individual loads that it serves.
     d. Device plates shall be nylon (unless otherwise noted).
     e. Color of devices and device plates shall be as determined by Architect.
- O. Dry Type Transformers
  1. Transformers shall be U.L. listed and shall have class 155 or higher insulation systems.
  2. Transformers shall be mounted with 5/8" thick neoprene pads for vibration isolation.
  3. 4" high concrete housekeeping pads shall be installed for all floor mounted transformers.
  4. Acceptable Manufacturers
     a. Eaton/Cutler Hammer
     b. Siemens
     c. Square D.
  5. Installation shall provide not less than twelve inch clearance from combustible materials and not less than 6" clearance from walls or equipment except where manufacturer's instruction are more stringent.
- P. Disconnect Switches
  1. Safety-type disconnect switches shall be heavy duty with quick-make, quick-break mechanism with interlocking cover which normally cannot be opened when the switch is in the "ON" position. Switch shall have provisions for pad-locking in the open or closed position. ON/OFF position shall be visible without opening the disconnect.
  2. Fusible disconnect switches shall have rejection-type fuseholders. Fuses shall be non-renewable, dual element time-delay "RK1" or "RK5", or as specified otherwise.
  3. Acceptable Manufacturers
     a. Eaton/Cutler Hammer
     b. Siemens
     c. Square D
- Q. Fire Alarm System
  1. The scope of work described in these Specifications and/or indicated on the Drawings shall be designed/engineered by the Contractor as a Delegated Design Responsibility. All professional engineering services related to the Fire Alarm system shall be delegated to the Contractor.
  2. Provide a complete, U.L. listed, [addressable][hard-wired] fire alarm system in accordance with these specifications, and all applicable codes.
  3. Acceptable Manufacturers:
     a. Honeywell - Notifier/Gamewell-FCI/Silent Knight/Farenhyt/Xtralis
     b. Siemens
     c. E.S.T.
     d. Johnson Controls - SimplexGrinnell
  4. Audible /Visual Devices: Audible/visual devices shall be horns with flashing visual appliances with the word "FIRE" written on the lens. The horns shall produce at least 15 dBa above ambient noise level. Audible and visual devices (including the combination device) shall utilize a 4" electrical backbox. Visual devices shall be multi-candela, field-selectable, with a constant flash rate of one (1) flash per second. The device color shall be white.
  5. Any audible device installed in a sleeping room, including living rooms, shall have a low-frequency sounder approved for fire protective service, and shall be listed to UL 464. The device shall be powered from a notification appliance circuit output and shall operate on nominal 12 or 24 volts (includes fire alarm panels with built in sync). All notification appliances shall be backward compatible.
  6. Any visual device in a sleeping area shall be minimum 110 candela, unless noted otherwise.
  7. Contractor shall furnish all labor, materials, tools, and equipment for a complete fire alarm system, including the following:
     a. Engineered drawings, calculations, and material submittals approved by authority having jurisdiction.
     b. Coordination of work in this section with all trades.
     c. Complete monitoring service connection to telephone backboard.
     d. Inspections and Tests
     e. One (1) year warranty
  8. Fire alarm shop drawings shall contain the following:
     a. Specification sheet(s) of technical data on each hardware component
     b. Specification sheet(s) on wiring to be utilized
     c. One-line schematic riser diagram made specifically for this job
     d. Calculation for sizing batteries and power supplies
     e. Sequence of operation for the entire system
     f. Copy of vendor's NICET fire alarm certificate (level III or higher)
     g. Verification of central supervising station (UL Certified)
     h. Equipment and service warranty
     i. Scaled floor plans showing fire alarm device locations and wire routing.
  9. Signal output to the UL Listed central station (for fire system reporting) shall be installed in accordance to the project specifications and drawings.
     a. Basic Performance:
        1) The Communicator will communicate to GSM networks in the area including 2G, 3G and 4G. The multi-GSM platform technology automatically detects and chooses the best network in the area based on signal strength and immediately self-adjusts for operation.
        2) Supervision of communication path with be monitored and automatically tested per the NFPA requirements listed below based on local NFPA adoptions:
           NFPA72 2010 GSM Single Path (cellular only) 5 minutes
           NFPA72 2013 GSM Single Path (cellular only) 1 hour
        3) Diagnostic LEDs: Signal strength and status indications.
        4) All circuits shall be power-limited, per UL864 requirements.
        5) In areas where the GSM network signal strength is poor or not allowed by the AHJ, a D.A.C.T. communication device (or similar UL Listed "fire" device) shall be provided in lieu of cellular communicator. Provide and install 3/4" conduit from the panel to the main telephone backboard.
  10. Signal output to the UL Listed central station (for fire system reporting) shall be installed in accordance to the project specifications and drawings. Communicator shall be in the FACP located in [e.g. clubhouse] building. All remote building FACPs shall be connected to the communicator via fiber optic loop. Fiber shall be installed between buildings in underground conduit with tracer wire.
     a. Basic Performance:
        1) The Communicator will communicate to GSM networks in the area including 2G, 3G and 4G. The multi-GSM platform technology automatically detects and chooses the best network in the area based on signal strength and immediately self-adjusts for operation.
        2) Supervision of communication path with be monitored and automatically tested per the NFPA requirements listed below based on local NFPA adoptions:
           NFPA72 2010 GSM Single Path (cellular only) 5 minutes
           NFPA72 2013 GSM Single Path (cellular only) 1 hour
        3) Diagnostic LEDs: Signal strength and status indications.
        4) All circuits shall be power-limited, per UL864 requirements.
        5) In areas where the GSM network signal strength is poor or not allowed by the AHJ, a D.A.C.T. communication device (or similar UL Listed "fire" device) shall be provided in lieu of cellular communicator. Provide and install 3/4" conduit from the panel to the main telephone backboard.
  11. Transient Voltage Surge Suppression
     a. Approved manufacturer/model: DITEK DTK-TSS1.
  12. Provide all necessary components to provide complete protection of the control panel, data, signal, and dialer circuits/connections.
  13. Surge protection shall be provided for any copper NAC, IDC and SLC circuits which are installed underground outside of a building.
  14. All underground pathways entering the building to be protected by surge protectors on both ends and properly grounded.
  15. Modules shall be mounted in NEMA 12 steel enclosure adjacent to FACP.
- R. Miscellaneous Equipment
  1. Time clock shall be electronic type with astronomical functions (Tork DZS 200 BP or approved equal).
  2. Photocell shall have raintight photoelectric self-contained control for switching. Photocell shall have die-cast housing with adjustable sensor.
  3. Acceptable Manufacturers
     a. Tork 2100 Series or approved equal
- S. Penetrations
  1. All penetrations through rated walls, floors and/or ceilings shall be sealed with the appropriately rated fire-sealing material by 3M company, Thomas & Betts, Metacaulk, or approved equal.
- T. Communications Conduit/Boxes
  1. Two (2) 4" schedule 40 PVC conduits shall extend from the public right-of-way to the main telecommunication room or entrance facility.
  2. The number of bends in a conduit section run shall not exceed two (2) 90-degree bends or equivalent of sweeps and radius bends.
  3. In areas with non-accessible ceilings, telephone conduits shall be continuous from the outlet box to the telephone equipment backboard and terminated with a nylon grommet.
  4. Each horizontal home-run conduit can serve from one (1) to three (3) outlet boxes. For one (1) outlet box, a ¾"conduit shall be used, minimum. For two (2) outlet boxes, a 1" conduit shall be used, minimum. For three (3) outlet boxes, a 1-1/4" conduit shall be used, minimum.
  5. The dimensions of the outlet box shall be 4" x 4" square with a minimum depth of 2-1/8". Boxes shall be equipped with single device adapters (or two-device adapters where needed). Where installed in plaster, gypsum board, tile, etc., adapters shall be raised to compensate for the thickness of the wall finish.
- V. Renovations and Additions
  1. Work requiring interruption of electrical power, which would adversely affect the normal operation of the owner's property, shall be done at a time other than normal working hours. Normal working hours shall be considered eight (8) A.M. to five (5) P.M. Monday through Friday. Schedule all outages with the owner and Architect prior to shutdown.
  2. Prior to submitting bids on the project, visit the site to become aware of existing conditions which may affect the cost of the project.
  3. Where work under this project requires extension, relocation, reconnection or modification to existing equipment or systems, the equipment or systems shall be restored to operating condition. Extend new homeruns or circuit extensions where required. Disconnect and remove all equipment indicated to be demolished, including outlet boxes, devices, raceways and conductors.
  4. Care shall be exercised in the removal and storage of equipment indicated to be relocated, removed and/or reused. Prior to placing back into service, existing equipment shall be cleaned and/or relamped. Marred or chipped surfaces shall be touched-up. Dispose of any material not wished to be kept by the owner.
  5. Provide all coring, cutting and patching to existing walls, floors, etc. required for the removal of existing work or the installation of new work.


CONSTRUCTION • ARCHITECTURE
PKWY
PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
Project Manager: CODY SMITH 214-542-8062
Architect: Contact: Dan Marta 469-455-1950; 1219


TRACTOR SUPPLY CO.
TSC

TSC Store #
Albuquerque, NM
465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY. STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

MARK N. BISHOP
NEW MEXICO
16797
REGISTERED PROFESSIONAL ENGINEER
9/15/25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC © 2025

SPECIFICATIONS

E002

## PANELBOARD SCHEDULE - "M (E)"

MAIN: 400 A MCB | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 110/3 | XFMR/PNL L | 7.9 | 16.4 | 1.0 | 0.0 | 0.0 | 7.3 | 0.0 | | | | | | | | 6.5 | | | RTU 1 | 35/3 | | 2 |
| 3 | | -- | XFMR/PNL L | 6.3 | 11.1 | 3.0 | 0.0 | 0.0 | 7.3 | 3.0 | | | | | | | | 6.5 | | | RTU 1 | -- | | 4 |
| 5 | | -- | XFMR/PNL L | 5.5 | 13.7 | 0.0 | 0.0 | 0.0 | 6.2 | 1.0 | | | | | | | | 6.5 | | | RTU 1 | -- | | 6 |
| 7 | | 35/3 | RTU 2 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 6 | 35/3 | | 8 |
| 9 | | -- | RTU 2 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 6 | -- | | 10 |
| 11 | | -- | RTU 2 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 6 | -- | | 12 |
| 13 | | 35/3 | RTU 3 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 7 | 35/3 | | 14 |
| 15 | | -- | RTU 3 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 7 | -- | | 16 |
| 17 | | -- | RTU 3 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 7 | -- | | 18 |
| 19 | | 35/3 | RTU 4 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 8 | 35/3 | | 20 |
| 21 | | -- | RTU 4 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 8 | -- | | 22 |
| 23 | | -- | RTU 4 | | | | | 6.6 | | | | | | | | | | 6.5 | | | RTU 8 | -- | | 24 |
| 25 | | 35/3 | RTU 5 | | | | | 6.6 | | | | | | 5.5 | | | | | | | BAILER | 30/3 | | 26 |
| 27 | | -- | RTU 5 | | | | | 6.6 | | | | | | 5.5 | | | | | | | -- | -- | | 28 |
| 29 | | -- | RTU 5 | | | | | 6.6 | | | | | | 5.5 | | | | | | | -- | -- | | 30 |
| 31 | | 30/3 | TRANSIENT ELIM. | | | | | | | | | | | | | | | | | | SPACE | | | 32 |
| 33 | | -- | TRANSIENT ELIM. | | | | | | | | | | | | | | | | | | SPACE | | | 34 |
| 35 | | -- | TRANSIENT ELIM. | | | | | | | | | | | | | | | | | | SPACE | | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 38 |
| 39 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 40 |
| 41 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 42 |
| LIGHTING (KVA): | | 19.6 | | 19.6 | 41.2 | 4.0 | 0.0 | 79.7 | 20.8 | 4.0 | | | | 0.0 | 0.0 | 16.6 | 0.0 | 77.6 | 0.0 | 0.0 | CONNECTED LOAD (KVA): | 263.5 | | |
| RECEPTACLES (KVA): | | 41.2 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 240.7 | | |
| MOTORS (KVA): | | 20.6 | | | | | | | | | PHASE A | | | 90 | | 326.7 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 89 | | 320.1 | | | | | CONNECTED LOAD (AMPS): | 317.0 | | |
| HEATING (KVA): | | 157.3 | | | | | | | | | PHASE C | | | 84 | | 304.6 | | | | | DEMAND LOAD (AMPS): | 289.5 | | |
| KITCHEN (KVA): | | 20.8 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 4.0 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 295.4 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "M (N)"

MAIN: 400 A MCB | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 110/3 | XFMR/PNL L | 7.9 | 21.7 | 9.4 | 0.0 | 0.0 | 7.3 | 2.9 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 1 | 35/3 | | 2 |
| 3 | | -- | XFMR/PNL L | 6.3 | 18.4 | 11.4 | 0.0 | 0.0 | 7.3 | 4.5 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 1 | -- | | 4 |
| 5 | | -- | XFMR/PNL L | 6.8 | 20.5 | 8.4 | 0.0 | 0.0 | 6.2 | 3.5 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 1 | -- | | 6 |
| 7 | | 35/3 | RTU 2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 6 | 35/3 | | 8 |
| 9 | | -- | RTU 2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 6 | -- | | 10 |
| 11 | | -- | RTU 2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 6 | -- | | 12 |
| 13 | | 35/3 | RTU 3 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 7 | 35/3 | | 14 |
| 15 | | -- | RTU 3 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 7 | -- | | 16 |
| 17 | | -- | RTU 3 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 7 | -- | | 18 |
| 19 | | 35/3 | RTU 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 8 | 35/3 | | 20 |
| 21 | | -- | RTU 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 8 | -- | | 22 |
| 23 | | -- | RTU 4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | RTU 8 | -- | | 24 |
| 25 | | 35/3 | RTU 5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | BAILER | 30/3 | | 26 |
| 27 | | -- | RTU 5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- | | 28 |
| 29 | | -- | RTU 5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | | | | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- | | 30 |
| 31 | | 30/3 | TRANSIENT ELIM. | | | | | | | | | | | | | | | 16.0 | | | WH-1 | 70/3 | | 32 |
| 33 | | -- | TRANSIENT ELIM. | | | | | | | | | | | | | | | 16.0 | | | -- | -- | | 34 |
| 35 | | -- | TRANSIENT ELIM. | | | | | | | | | | | | | | | 16.0 | | | -- | -- | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 38 |
| 39 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 40 |
| 41 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 42 |
| LIGHTING (KVA): | | 21.0 | | 21.0 | 60.7 | 29.3 | 0.0 | 79.7 | 20.8 | 10.9 | | | | 0.0 | 0.0 | 16.6 | 0.0 | 77.6 | 48.0 | 0.0 | CONNECTED LOAD (KVA): | 364.5 | | |
| RECEPTACLES (KVA): | | 60.7 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 315.1 | | |
| MOTORS (KVA): | | 45.9 | | | | | | | | | PHASE A | | | 123 | | 444.3 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 122 | | 440.0 | | | | | CONNECTED LOAD (AMPS): | 438.4 | | |
| HEATING (KVA): | | 157.3 | | | | | | | | | PHASE C | | | 120 | | 431.4 | | | | | DEMAND LOAD (AMPS): | 379.0 | | |
| KITCHEN (KVA): | | 68.8 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 10.9 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 385.3 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "S (E)"

MAIN: 250 A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20/3 | SUB METER | | | | | | | | | | | | 0.2 | | | | | | POLE LT GFI | 20/1 | | 2 |
| 3 | | -- | SUB METER | | | | | | | | | | | | | | | | | 1.0 | TIME CLOCK | 20/1 | | 4 |
| 5 | | -- | SUB METER | | | | | | | | | | | | 0.2 | | | | | | POLE LT GFI | 20/1 | | 6 |
| 7 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | POLE LT | 20/2 | | 8 |
| 9 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | -- | -- | | 10 |
| 11 | | | SPACE | | | | | | | | | | | | | | | | | 1.0 | IRRIGATION | 20/1 | | 12 |
| 13 | | | SPACE | | | | | | | | | | | | 0.3 | | | | | | SIGN | 20/1 | | 14 |
| 15 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | POLE LT | 20/2 | | 16 |
| 17 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | -- | -- | | 18 |
| 19 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | POLE LT | 20/2 | | 20 |
| 21 | | | SPACE | | | | | | | | | | | | 0.5 | | | | | | -- | -- | | 22 |
| 23 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 24 |
| 25 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 26 |
| 27 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 28 |
| 29 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 30 |
| 31 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 32 |
| 33 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 34 |
| 35 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 38 |
| 39 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 40 |
| 41 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 42 |
| LIGHTING (KVA): | | 3.3 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 3.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | CONNECTED LOAD (KVA): | 5.7 | | |
| RECEPTACLES (KVA): | | 0.4 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 5.7 | | |
| MOTORS (KVA): | | 0.0 | | | | | | | | | PHASE A | | | 1 | | 12.3 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 3 | | 20.8 | | | | | CONNECTED LOAD (AMPS): | 15.7 | | |
| HEATING (KVA): | | 0.0 | | | | | | | | | PHASE C | | | 2 | | 14.0 | | | | | DEMAND LOAD (AMPS): | 15.7 | | |
| KITCHEN (KVA): | | 0.0 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 2.0 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 18.0 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "L (E)"

MAIN: 250 A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 2 |
| 3 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 4 |
| 5 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 6 |
| 7 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 8 |
| 9 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 10 |
| 11 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 12 |
| 13 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.8 | | | | | | | LIGHTING | 20/1 | | 14 |
| 15 | | 20/1 | LIGHTING (BATH) | 0.6 | | | | | | | | | | 0.2 | | | | | | | EXTERIOR LIGHTING | 20/1 | | 16 |
| 17 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.2 | | | | | | | EXTERIOR LIGHTING | 20/1 | | 18 |
| 19 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | 0.2 | | | | | | | EXTERIOR LIGHTING | 20/1 | | 20 |
| 21 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | | | | | | | | SPACE | | | 22 |
| 23 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | | | | | | | | SPACE | | | 24 |
| 25 | | 20/1 | LIGHTING | 0.8 | | | | | | | | | | | | | | | | | SPACE | | | 26 |
| 27 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 28 |
| 29 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 30 |
| 31 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 32 |
| 33 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 34 |
| 35 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 38 |
| 39 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 40 |
| 41 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 42 |
| LIGHTING (KVA): | | 16.3 | | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CONNECTED LOAD (KVA): | 16.3 | | |
| RECEPTACLES (KVA): | | 0.0 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 16.3 | | |
| MOTORS (KVA): | | 0.0 | | | | | | | | | PHASE A | | | 7 | | 23.8 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 5 | | 17.3 | | | | | CONNECTED LOAD (AMPS): | 19.7 | | |
| HEATING (KVA): | | 0.0 | | | | | | | | | PHASE C | | | 5 | | 18.0 | | | | | DEMAND LOAD (AMPS): | 19.7 | | |
| KITCHEN (KVA): | | 0.0 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 0.0 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 24.6 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "L (N)"

MAIN: 250 A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 2 |
| 3 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 4 |
| 5 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 6 |
| 7 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 8 |
| 9 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 10 |
| 11 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 12 |
| 13 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | LIGHTING | 20/1 | | 14 |
| 15 | | 20/1 | LIGHTING (BATH) | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | EXTERIOR LIGHTING | 20/1 | | 16 |
| 17 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | EXTERIOR LIGHTING | 20/1 | | 18 |
| 19 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | EXTERIOR LIGHTING | 20/1 | | 20 |
| 21 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | SPACE | | | 22 |
| 23 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | SPACE | | | 24 |
| 25 | | 20/1 | LIGHTING | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | SPACE | | | 26 |
| 27 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 28 |
| 29 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 30 |
| 31 | | | SPACE | | | | | | | | | | | | | 4.2 | | | | | OVERHEAD DOORS | 20/3 | | 32 |
| 33 | | | SPACE | | | | | | | | | | | | | 4.2 | | | | | -- | -- | | 34 |
| 35 | | | SPACE | | | | | | | | | | | | | 4.2 | | | | | -- | -- | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | | 4.2 | | | | | OVERHEAD DOORS | 20/3 | | 38 |
| 39 | | | SPACE | | | | | | | | | | | | | 4.2 | | | | | -- | -- | | 40 |
| 41 | | 20/1 | SIGNAGE | 1.0 | | | | | | | | | | | | 4.2 | | | | | -- | -- | | 42 |
| LIGHTING (KVA): | | 17.3 | | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 6.1 | 0.0 | 25.3 | 0.0 | 0.0 | 0.0 | 0.0 | CONNECTED LOAD (KVA): | 42.6 | | |
| RECEPTACLES (KVA): | | 0.0 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 42.6 | | |
| MOTORS (KVA): | | 25.3 | | | | | | | | | PHASE A | | | 15 | | 54.2 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 13 | | 47.7 | | | | | CONNECTED LOAD (AMPS): | 51.2 | | |
| HEATING (KVA): | | 0.0 | | | | | | | | | PHASE C | | | 14 | | 52.0 | | | | | DEMAND LOAD (AMPS): | 51.2 | | |
| KITCHEN (KVA): | | 0.0 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 0.0 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 56.5 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "S (N)"

MAIN: 250 A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: | AIC:

| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20/3 | SUB METER | | | | | | | | | | | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | POLE LT GFI | 20/1 | | 2 |
| 3 | | -- | SUB METER | | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | TIME CLOCK | 20/1 | | 4 |
| 5 | | -- | SUB METER | | | | | | | | | | | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | POLE LT GFI | 20/1 | | 6 |
| 7 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | POLE LT | 20/2 | | 8 |
| 9 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- | | 10 |
| 11 | | | SPACE | | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | IRRIGATION | 20/1 | | 12 |
| 13 | | | SPACE | | | | | | | | | | | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | SIGN | 20/1 | | 14 |
| 15 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | POLE LT | 20/2 | | 16 |
| 17 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- | | 18 |
| 19 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | POLE LT | 20/2 | | 20 |
| 21 | | | SPACE | | | | | | | | | | | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -- | -- | | 22 |
| 23 | | 20/1 | PROPANE DISPENSER | | | | | | | | | | 1.5 | | | | | | | | SPACE | | | 24 |
| 25 | | -- | --- | | | | | | | | | | 1.5 | | 1.0 | | | | | | DEDICATED IT | 20/2 | | 26 |
| 27 | | | SPACE | | | | | | | | | | | | 1.0 | | | | | | DEDICATED IT | 20/2 | | 28 |
| 29 | | | SPACE | | | | | | | | | | | | | | | | | | SPACE | | | 30 |
| 31 | | 20/1 | EXTERIOR RECEP | 1.1 | | | | | | | | | | | | | | | | | SPACE | | | 32 |
| 33 | | 20/1 | CORD REEL | 1.4 | | | | | | | | | | | 1.4 | | | | | | CORD REEL | 20/1 | | 34 |
| 35 | | 20/1 | CORD REEL | 1.4 | | | | | | | | | | | 1.4 | | | | | | CORD REEL | 20/1 | | 36 |
| 37 | | | SPACE | | | | | | | | | | | | 1.4 | | | | | | GONDOLA | 20/1 | | 38 |
| 39 | | 20/1 | GONDOLA | 1.4 | | | | | | | | | | | 1.4 | | | | | | GONDOLA | 20/1 | | 40 |
| 41 | | 20/1 | GONDOLA | 1.4 | | | | | | | | | | | 1.4 | | | | | | GONDOLA | 20/1 | | 42 |
| LIGHTING (KVA): | | 3.3 | | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | | | | 3.3 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | CONNECTED LOAD (KVA): | 27.6 | | |
| RECEPTACLES (KVA): | | 19.3 | | | | | | | | | | | | | | | | | | | DEMAND LOAD (KVA): | 22.9 | | |
| MOTORS (KVA): | | 0.0 | | | | | | | | | PHASE A | | | 8 | | 69.2 | | | | | | | | |
| A/C (KVA): | | 0.0 | | | | | | | | | PHASE B | | | 9 | | 77.2 | | | | | CONNECTED LOAD (AMPS): | 76.5 | | |
| HEATING (KVA): | | 0.0 | | | | | | | | | PHASE C | | | 10 | | 83.5 | | | | | DEMAND LOAD (AMPS): | 63.7 | | |
| KITCHEN (KVA): | | 0.0 | | | | | | | | | | | | KVA | | AMPS | | | | | | | | |
| MISCELLANEOUS (KVA): | | 5.0 | | | | | | | | | | | | | | | | | | | AMPACITY REQUIRED: | 66.0 | | |

NOTES: BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

## PANELBOARD SCHEDULE - "P (E)"

MAIN: 250 A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: | AIC:

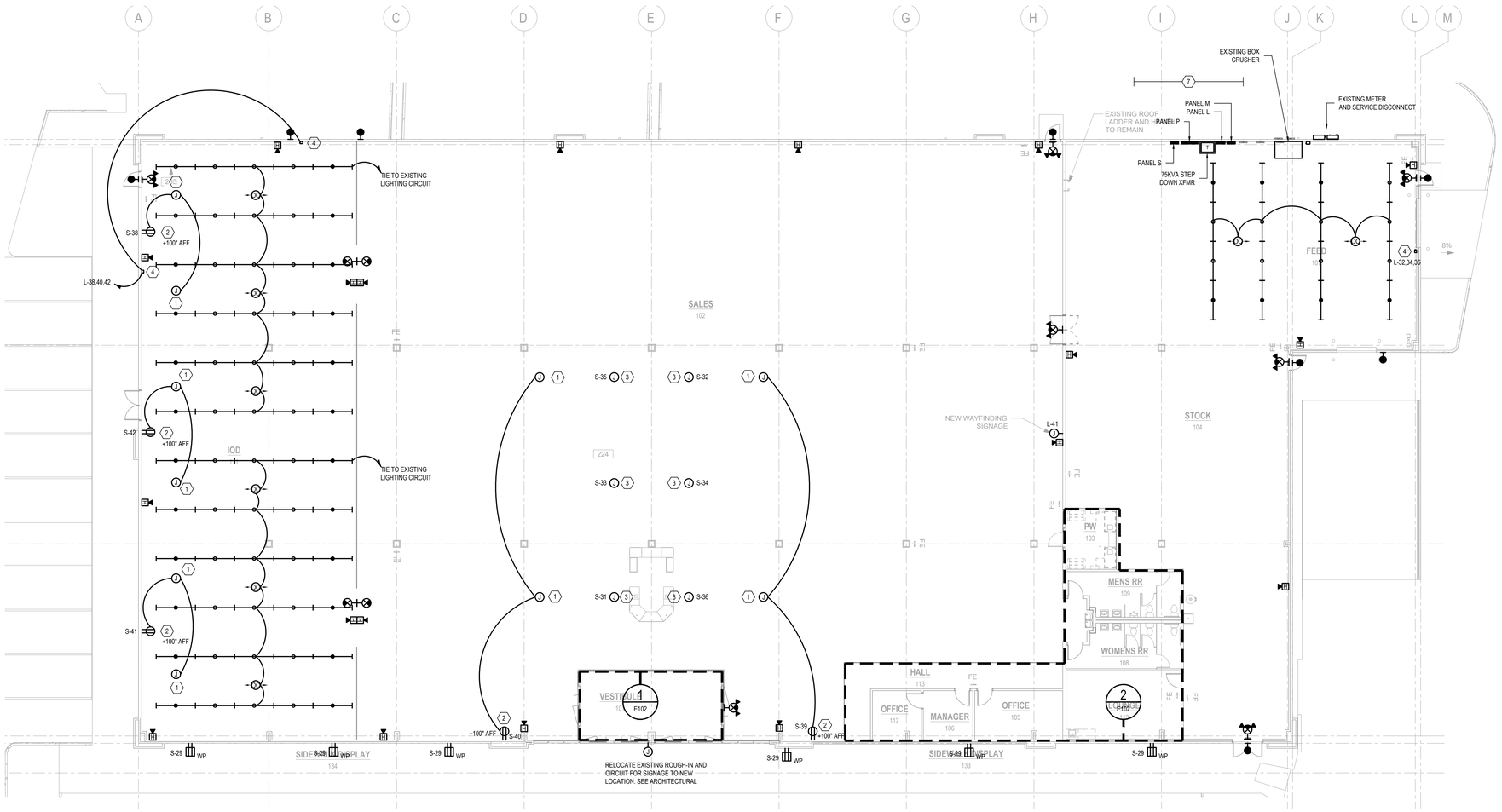
| CKT # | BKR TYPE | TRIP / POLES | DESCRIPTION | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | PHASE A | B | C | LOAD (KVA) LTG | REC | MTR | A/C | HTG | KIT | MISC | DESCRIPTION | TRIP / POLES | BKR TYPE | CKT # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 20/1 | RECEP | | 1.1 | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 2 |
| 3 | | 20/1 | RECEP | | 1.1 | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 4 |
| 5 | | 20/1 | RECEP | | 1.1 | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 6 |
| 7 | | 20/1 | POWER AUTO DOORS | | | 1.0 | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 8 |
| 9 | | 20/1 | POWER AUTO DOORS | | | 1.0 | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 10 |
| 11 | | 20/1 | SPACE | | | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 12 |
| 13 | | 20/1 | POWER POLE | 0.5 | | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 14 |
| 15 | | 20/1 | POWER POLE | 0.5 | | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 16 |
| 17 | | 20/1 | POWER POLE | 0.5 | | | | | | | | | | | 0.5 | | | | | | POWER POLE | 20/1 | | 18 |
| 19 | | 20/1 | POWER POLE | 0.5 | | | | | | | | | | 1.1 | | | | | | | GENERAL RECEP | 20/1 | | 20 |
| 21 | | 20/1 | POWER POLE | 0.5 | | | | | | | | | | 1.1 | | | | | | | GENERAL RECEP | 20/1 | | 22 |
| 23 | | 20/1 | SPARE | | | | | | | | | | | 1.1 | | | | | | | POWER POLE RECEP | 20/1 | | 24 |
| 25 | | 20/1 | SPARE | | | | | | | | | | | 1.1 | | | | | | | POWER POLE RECEP | 20/1 | | 26 |
| 27 | | 20/1 | SPARE | | | | | | | | | | | | | | | | | 1.0 | CONTROL VOLTAGE | 20/1 | | 28 |
| 29 | | 20/1 | SPARE | | | | | | | | | | | | | | | | | | SPARE | 20/1 | | 30 |
| 31 | | 20/1 | SPARE | | | | | | | | | | | 1.8 | | | | | | | ROOF TOP GFI | 20/1 | | 32 |
| 33 | | 30/3 | SPARE | | | | | | | | | | | | 1.0 | | | | | | GATE KEEPER DOORS | 20/1 | | 34 |
| 35 | | -- | SPARE | | | | | |

## GENERAL NOTES:

1. U.N.O ALL LIGHTING SHALL BE EXISTING TO REMAIN AND ON EXISTING CIRCUITS. CONTRACTOR TO REUSE EXISTING FIXTURES TO THE GREATEST EXTENT POSSIBLE. ALL NEW LIGHTING SHALL BE ( ⊢⊣ ) SHALL BE TYPE "A).
2. ALL EMERGENCY LIGHTING ( ⊢⊣ ⊗ ) SHALL BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR OF THE CIRCUIT SERVING THE RESPECTIVE AREA. SEE LIGHTING NOTES ON SHEET E001. SEE LIGHTING CONTROL NOTES ON E001.
3. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF FIXTURES. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR FIXTURES.
4. CONTRACTOR TO FIELD COORDINATE & ADJUST EXIT SIGN LOCATIONS TO ENSURE THEY REMAIN VISIBLE AT ALL LOCATIONS BASED ON INSTALLED CONDITIONS.
5. VERIFY ALL RECEPTACLE AND STOCK LOCATIONS WITH TSC PM

## KEY NOTES: (#)

1. RUN CIRCUIT ALONG CEILING JOISTS IN EMT CONDUIT. PROVIDE JUNCTION BOX AT CEILING JOISTS WITH NEMA L5-20R RECEPTACLE FOR 12/2 SO CORD CONNECTION. CORD TO DROP VERTICALLY TO TOP OF MERCHANDISE GONDOLA AND RUN ALONG CENTER SPINE. PROVIDE NEMA L5-20R RECEPTACLE AT TOP OF GONDOLA WITHIN 6" OF FRONT EDGE.
2. CIRCUITS TO BE CONTROLLED WITH TIME BASED CONTROLS. ROUTE CIRCUITS THROUGH CONTACTOR PANEL AND TIME CLOCK, OR PROVIDE POWER PACKS FOR EACH HOMERUN TO PROVIDE WIRELESS CONNECTION TO TIME BASED CONTROL SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH TSC. COORDINATE LOCATIONS WITH TSC FIXTURE PLAN. VERIFY SETTINGS AND SCHEDULE WITH TSC PM.
3. RUN CIRCUIT ALONG CEILING JOISTS IN EMT CONDUIT. PROVIDE JUNCTION BOX AT CEILING JOISTS WITH NEMA 5-20R RECEPTACLE FOR CORD REEL. REUSE EXISTING CORD REELS OR PROVIDE HUBBELL HBLC40123TT MOUNTED TO CEILING JOISTS.
4. PROVIDE POWER FOR OVERHEAD COILING DOOR. COORDINATE EXACT LOCATION OF CONNECTION WITH DOOR PROVIDER. PROVIDED LOCAL DISCONNECT SWITCH AT NOT MORE THAN 6.5' TO TOP OF OPERATING HANDLE. PROVIDE 1/2" EMT CONDUIT TO PUSH BUTTON DOOR CONTROLS. COORDINATE EXACT LOCATION OF CONTROLS WITH TSC PM.
5. PROVIDE POWER FOR CEILING MOUNTED WAY-FINDING SIGN. COORDINATE EXACT LOCATION WITH TSC FIXTURE PLAN.
6. TIE NEW PROPOSED LED LIGHTING INTO EXISTING LIGHTING CIRCUITS.
7. EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE.




1 FLOOR PLAN
SCALE: 3/32" = 1'-0"

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: CODY SMITH
214-542-8062

Architect:
Contact: Dan Marta
469-455-1350;
1219


TRACTOR SUPPLY CO.
TSC

# TSC Store #
# Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM


**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY. STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550


MARK N. BIGBIE
NEW MEXICO
16797
LICENSED PROFESSIONAL ENGINEER
9/15/25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC © 2025

FLOOR PLAN

E101


JSE Jordan & Skala Engineers
6201 West Plano Parkway, Suite 250 • Plano, TX. 75093
p. 469.385.1616 • f. 469.385.1615

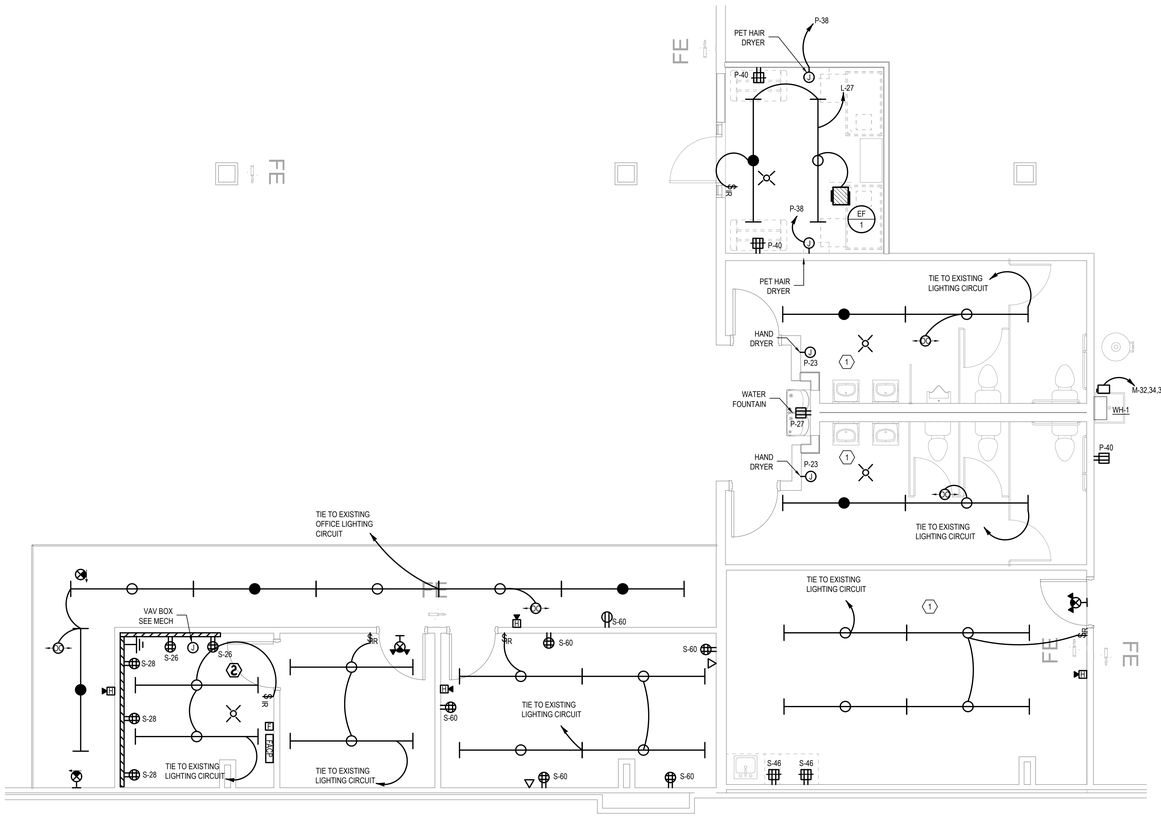
Project Number: 250302kb3Drawn By:JDW Checked By:MHB

## GENERAL NOTES:

1. U.N.O ALL LIGHTING SHALL BE EXISTING TO REMAIN AND ON EXISTING CIRCUITS. CONTRACTOR TO REUSE EXISTING FIXTURES TO THE GREATEST EXTENT POSSIBLE. ALL NEW LIGHTING SHALL BE ( ⊢⊣ ) SHALL BE TYPE "A).
2. ALL EMERGENCY LIGHTING ( ⊢⊣ , ⊗ ) SHALL BE CONNECTED TO AN UNSWITCHED PHASE CONDUCTOR OF THE CIRCUIT SERVING THE RESPECTIVE AREA. SEE LIGHTING NOTES ON SHEET E001. SEE LIGHTING CONTROL NOTES ON E001.
3. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF FIXTURES. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR FIXTURES.
4. CONTRACTOR TO FIELD COORDINATE & ADJUST EXIT SIGN LOCATIONS TO ENSURE THEY REMAIN VISIBLE AT ALL LOCATIONS BASED ON INSTALLED CONDITIONS.
5. VERIFY ALL RECEPTACLE AND STOCK LOCATIONS WITH TSC PM.
6. EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE, UNLESS NOTED OTHERWISE.
7. EXISTING LOW VOLTAGE/CSAV/SECURITY/LIGHTING CONTROLS EQUIPMENT. SHOWN FOR REFERENCE ONLY.

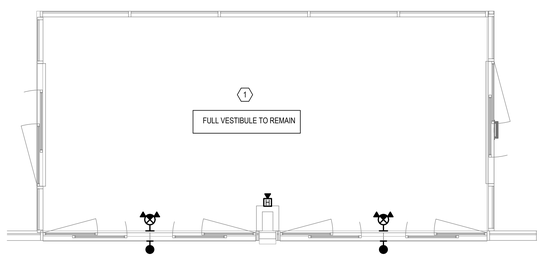
## KEY NOTES: ⬡

1. EXISTING EQUIPMENT NOT REFLECTED ON PLANS SHALL REMAIN IN PLACE.




## 2 OFFICES & LOUNGE

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




## 1 VESTIBULE / ENTRY

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

CONSTRUCTION • ARCHITECTURE

PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: CODY SMITH
214-542-8062

Architect:
Contact: Dan Marta
469-455-1350;
1219

TRACTOR SUPPLY CO. TSC

# TSC Store #
# Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM

**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY. STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550

MARK N. BIGHIA
NEW MEXICO
16797
LICENSED PROFESSIONAL ENGINEER
9/15/25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC © 2025

ENLARGED

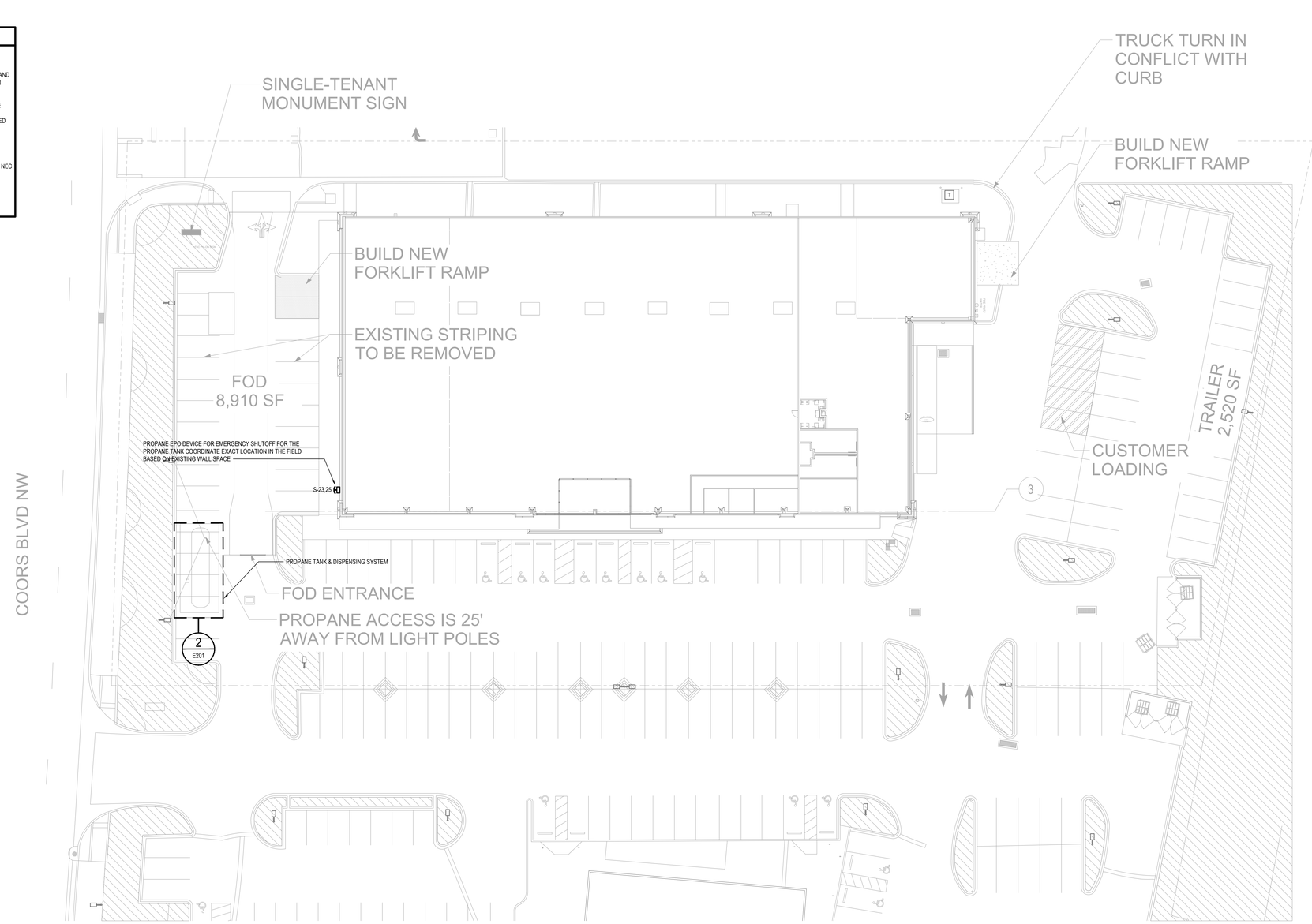
E102

Jordan & Skala Engineers
6201 West Plano Parkway, Suite 250 • Plano, TX, 75093
p. 469.385.1616 • f. 469.385.1615

Project Number: 25030243Drawn By: JDW Checked By: MEB

## SITE GENERAL NOTES

1. EXISTING UTILITY TRANSFORMERS, METERING, AND SERVICE EQUIPMENT TO REMAIN. EQUIPMENT IS CURRENTLY ENERGIZED AND TO REMAIN.
2. ALL UNDERGROUND WIRING SHALL BE INSTALLED TO THE MINIMUM DEPTH REQUIRED BY 300.5 OR AS SPECIFIED BY UTILITY COMPANY AND SHALL BE PROVIDED WITH WARNING RIBBON PLACED 12" ABOVE UNDERGROUND WIRING PER 300.5(D)(3). ADDITIONAL WARNING RIBBON LOCATED 12" BELOW GRADE IS REQUIRED FOR UNDERGROUND WIRING DEEPER THAN 5' BELOW GRADE OR SLAB.
3. ALL WIRING UNDERNEATH THE BUILDING SLAB SHALL BE IN CONDUIT PER 300.5(C). ALL CONDUITS ENTERING THE BUILDING SHALL HAVE SEALS PER 300.5(G) & 300.7(A). ALL SERVICES SHALL BE IN CONDUIT, AND PROTECTED PER 230.32 & 230.43. ALL CONDUITS SHALL BE INSTALLED TO DRAIN AWAY FROM SERVICE ENTRANCE EQUIPMENT PER 230.53. CONDUITS ENTERING THE BUILDING SHALL BE ARRANGED PER NEC ANNEX B.6.
4. UNDERGROUND CONDUITS CROSSING ROADWAYS LESS THAN 10' BELOW PAVEMENT SHALL BE INSTALLED WITHIN SCHEDULE 80 PVC EXTENDING AT LEAST 5' BEYOND ROADWAY.
5. CONTRACTOR TO INSTALL EXPANSION FITTINGS FOR PVC CONDUIT OUTSIDE THE BUILDING PER MANUFACTURER'S INSTRUCTIONS AND NEC 352.44.
6. ALL EXISTING PARKING LOT LIGHTING AND LIGHTING CONTROLS TO REMAIN AS INSTALLED. CONTRACTOR TO VERIFY LIGHTS ARE FUNCTIONAL AND REPLACE NON-FUNCTIONAL FIXTURES WITH LED EQUIVALENT OF NON-FUNCTIONAL LIGHTING TO MATCH EXISTING FIXTURES IN LIGHT OUTPUT AND AESTHETICS.

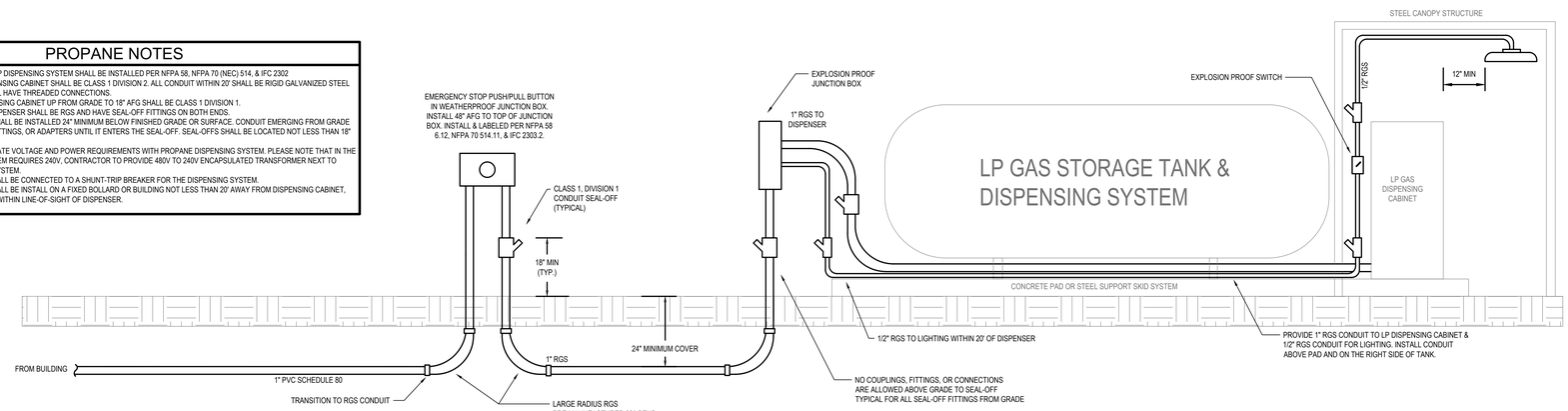



1 SITE PLAN

SCALE: 1" = 20'-0"

## PROPANE NOTES

1. ALL CONDUIT AND WIRING TO LP DISPENSING SYSTEM SHALL BE INSTALLED PER NFPA 58, NFPA 70 (NEC) 514, & IFC 2302.
2. ALL WORK WITHIN 20' OF DISPENSING CABINET SHALL BE CLASS 1 DIVISION 2. ALL CONDUIT WITHIN 20' SHALL BE RIGID GALVANIZED STEEL (RGS). ALL RGS CONDUIT SHALL HAVE THREADED CONNECTIONS.
3. ALL WORK WITHIN 5' OF DISPENSING CABINET UP FROM GRADE TO 18" AFG SHALL BE CLASS 1 DIVISION 1.
4. ALL CONDUIT WITHIN 20' OF DISPENSER SHALL BE RGS AND HAVE SEAL-OFF FITTINGS ON BOTH ENDS.
5. ALL CONDUIT BELOW GRADE SHALL BE INSTALLED 24" MINIMUM BELOW FINISHED GRADE OR SURFACE. CONDUIT EMERGING FROM GRADE SHALL HAVE NO COUPLINGS, FITTINGS, OR ADAPTERS UNTIL IT ENTERS THE SEAL-OFF. SEAL-OFFS SHALL BE LOCATED NOT LESS THAN 18" AFG.
6. CONTRACTOR SHALL COORDINATE VOLTAGE AND POWER REQUIREMENTS WITH PROPANE DISPENSING SYSTEM. PLEASE NOTE THAT IN THE EVENT THAT DISPENSING SYSTEM REQUIRES 240V, CONTRACTOR TO PROVIDE 480V TO 240V ENCAPSULATED TRANSFORMER NEXT TO PANEL SERVING DISPENSING SYSTEM.
7. EMERGENCY STOP BUTTON SHALL BE CONNECTED TO A SHUNT-TRIP BREAKER FOR THE DISPENSING SYSTEM.
8. EMERGENCY STOP BUTTON SHALL BE INSTALL ON A FIXED BOLLARD OR BUILDING NOT LESS THAN 20' AWAY FROM DISPENSING CABINET, BUT NOT MORE THAN 100' AND WITHIN LINE-OF-SIGHT OF DISPENSER.




2 PROPANE DISPENSING SYSTEM

SCALE: NO SCALE

CONSTRUCTION • ARCHITECTURE


PKWY Architects, LLC
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Architect: Dan Marta 469-455-1350; 1219

Project Manager: Cody Smith 214-542-8062


TSC Store #
Albuquerque, NM

465 Coors Blvd NW
Albuquerque NM


**OWNER:**
TRACTOR SUPPLY CO.
5401 VIRGINIA WAY
BRENTWOOD, TN 37027
CONTACT: BILL BURCH
615-714-5205

**ARCHITECT:**
PKWY ARCHITECTS, LLC
1000 CIVIC CIRCLE
LEWISVILLE, TX 75057
CONTACT:
972-221-1979

**MEP ENGINEER:**
JORDAN & SKALA ENGINEERS
6201 W PLANO PKWY. STE 250
PLANO, TX 75093
CONTACT:
469-385-1616

**STRUCTURAL ENGINEER:**
ARMSTRONG-DOUGLASS
A SALAS O'BRIEN COMPANY
12655 N. CENTRAL EXPWY.
SUITE 720
DALLAS, TX 75243
737-270-7550


MARK N. BIGHAM
NEW MEXICO
16797
LICENSED PROFESSIONAL ENGINEER
9/15/25

| No. | Description | Date |
|---|---|---|
| | Permit Set | 2025.09.15 |

Drawn by:
Checked by:
Project Number:

COPYRIGHT PKWY ARCHITECTS, LLC © 2025

SITE PLAN

E201


Jordan & Skala Engineers
6201 West Plano Parkway, Suite 250 • Plano, TX, 75093
p. 469.385.1616 • f. 469.385.1615

Project Number: 250302633Drawn By: JDW Checked By:MEB