

TOWN OF CHAPIN
Architectural Review Board Regular Meeting
Council Chambers, Chapin Town Hall
February 5, 2025
6:00 PM

AGENDA

Call to Order and Determine Quorum

Statement of Freedom of Information Act Compliance

Approval of Minutes

1. January 8, 2025 Regular Meeting Minutes

Public Comments related to agenda items

Action Items

2. Architectural Application Review
 - a. Wendy's Restaurant
 - i. Applicant Comments
 - ii. Staff Comments
 - iii. ARB Discussion

Staff Updates

Adjourn

PUBLIC COMMENT POLICY

PROCEDURE:

Persons wishing to make public comments concerning items related to the current meeting agenda, with the exception of personnel and contractual matters, shall first sign in with the Municipal Clerk before the meeting and provide the following information:

1. Name, Address, and Contact Information;
2. Topic of Public Comment; and
3. Indicate whether a Chapin Resident, Chapin Water/Sewer Customer, or Reside in the Chapin Water/Sewer District.

Comments are limited to three (3) minutes per person and no personal or verbal attacks will be entertained. The Council is interested in hearing your concerns, but speakers should not expect action or deliberation on subject matter brought up during any Public Comments on the agenda. Topics requiring further investigation may be referred to Town Staff and may be scheduled for a future agenda.

DEFINITIONS:

Chapin Resident: Reside in Town limits.

Chapin Water/Sewer Customer: Customer of the designated Chapin Water/Sewer District - Including an owner or operator of a local business.

Reside in Chapin Water/Sewer District: Reside in the designated Chapin Water/Sewer District – Area of Lexington County north of Lake Murray.

APPEARANCE OF CITIZENS

Town Code 2.212 – Any citizen of the Town shall be entitled to be placed on the agenda of any regular meeting to discuss any municipal matter, with the exception of personnel and contractual matters. Persons desiring to be placed on the agenda shall notify the Municipal Clerk not less than a week prior to the meeting. The request shall be in writing stating the reason therefor.

**TOWN OF CHAPIN
ARCHITECTURAL REVIEW BOARD
REGULAR MEETING MINUTES**

**Wednesday January 8, 2025
6:00 P.M.**

Town Hall

Members Present: Member Daniel Powell, Member Bryson Tucker, Chair Harmon Reed, Vice Chair Gerald Meetze, Member Jason King

Staff Present: Town Clerk Shannon Bowers, Town Administrator Nicholle Burroughs, Planning & Zoning Manager Reid Radtke

Call to Order: Chair Reed called the meeting to order at 6:06 p.m., determined there was a quorum, and acknowledged the appropriate notifications in compliance with the SC Freedom of Information Act had been met.

Approval of minutes: Member King moved to amend the December 4, 2024 minutes to correct that Chair Reed opened the December 4 meeting and update to one of the names on the guests from that meeting. Member Tucker seconded the amendment. No further discussion, motion to amend passed unanimously. Member King moved to approve the December 4, 2024 meeting minutes as amended. Member Tucker seconded the motion. No further discussion, motion passed unanimously.

Chair Harmon Reed:	Yes
Vice Chair Gerald Meetze:	Yes
Member Daniel Powell:	Yes
Member Jason King:	Yes
Member Bryson Tucker:	Yes

Public Comments Related to Agenda Items

There were no public comments

Action Items

Elections: Member Meetze moved to nominate Jason King to serve as chair of the ARB. Member Tucker seconded the motion. No further discussion. Motion passed unanimously.

Chair Harmon Reed:	Yes
Vice Chair Gerald Meetze:	Yes
Member Daniel Powell:	Yes
Member Jason King:	Yes
Member Bryson Tucker:	Yes

Member Meetze moved to nominate Harmon Reed to serve as Vice Chair of the ARB. Member Tucker seconded the motion. No further discussion. Motion passed unanimously.

Chair Harmon Reed: Yes
Vice Chair Gerald Meetze: Yes
Member Daniel Powell: Yes
Member Jason King: Yes
Member Bryson Tucker: Yes

Staff Updates

Mr. Radtke introduced new member, Daniel Powell. Mr. Powell has lived in Chapin for the past 11 years, and the board welcomed him to the ARB. Mr. Radtke then updated the ARB on the preliminary applications from the December meeting, stating that it is likely that the Publix outparcel and the Wendy's projects will be ready for presenting at the February ARB meeting. He noted that it may be March before the dentist office is ready to present. He also noted that there are several other projects that potentially may come before the board for preliminary review, and staff would keep the ARB posted on the status of those projects. The ARB requested more time to review application packets to help meetings move more efficiently. Administrator Burroughs also reported that the Town now contracts with CC&I for building permitting, which has allowed for better coordination for final approvals, though historically the Town has issued conditional COA's as a part of the approval process.

Adjournment: Member Tucker moved to adjourn the meeting. Member King seconded the motion. Meeting adjourned at 6:26 p.m.

ARB APPROVED (Date): _____

Attest:

Shannon Bowers, Town Clerk

Jason King, ARB Chair

Memorandum Architectural Review

To: Architectural Review Board
From: R. Radtke, Planning & Zoning Manager
Date: January 17, 2025
Re: Wendy's Restaurant

Property Location: Columbia Ave
Tax Map Number: 000700-03-185
Property Zoning District: Interstate Commercial (IC)
Property Overlay District: Interstate
Applicant: Tige Darner

This commercial development is proposed for development of a Wendy's Restaurant within the Interstate Commercial district. Applicant has made some substantial changes to the building after initial preliminary ARB meeting & staff review on comments regarding appearance style and unique features the Town encourages.

Proposal

The applicant is proposing to build new construction structure adjacent to the Bojangles on Columbia Ave. The total acreage consisting of 1.65 acres. The new structure is planned to be approximately 2456 sq ft. The intended materials of the exterior have been updated to all brick veneer with Town approved color (SW 9574 Hulett Ore, SW 7599 Brick Paver & SW 9556 Intrepid Grey). Roof color - CertainTeed (colonial slate) asphalt shingles.

Open space in compliance = 22%

Lot coverage in compliance = $32,815 / 71,810 \text{ Area} \times 100 = 46\%$.

Parking calculations in compliance = $60 + 2 - 1/2 = 30$. 38 spaces provided

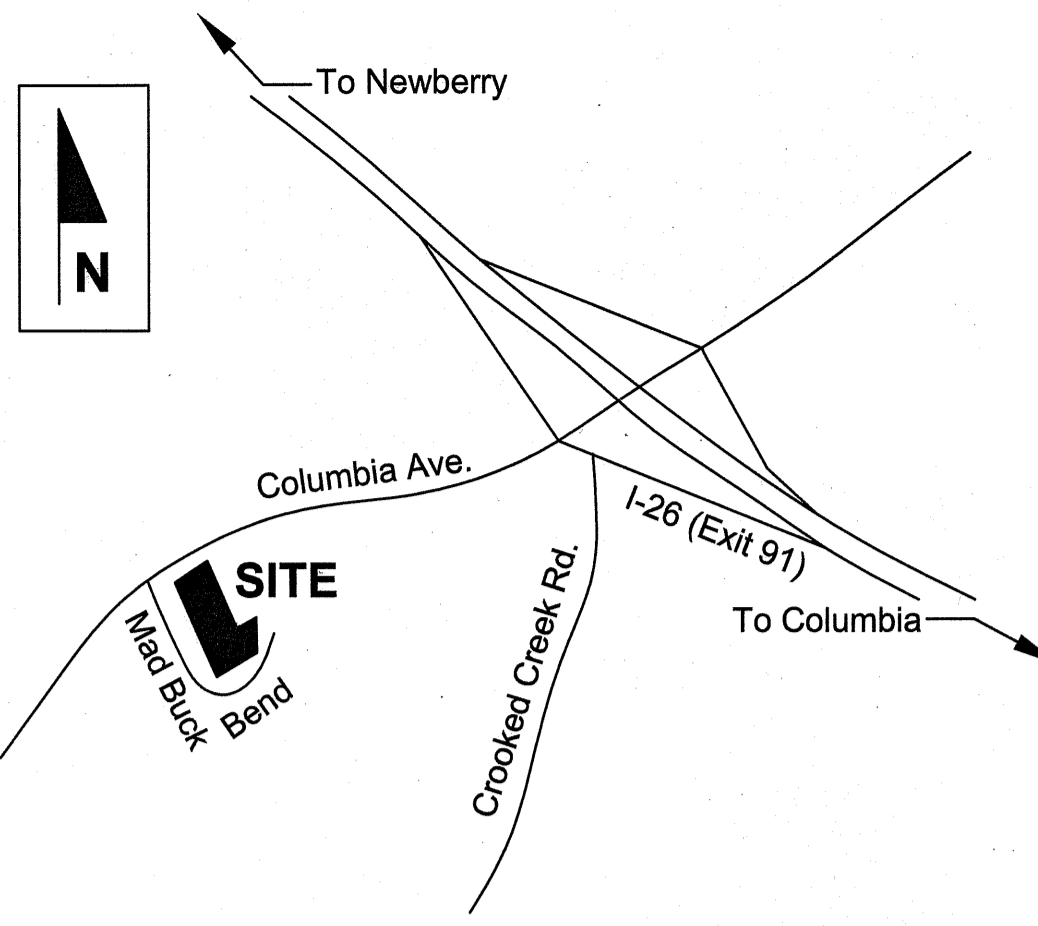
Staff Recommendation

In review of the requirements staff has identified the proposed development to be compliant with the majority of requirements of the Town's Zoning Ordinance.

The following items have been updated from the previous preliminary meeting or need further clarification for compliance:

- Exterior lighting plan has been submitted – **This has been reviewed and is in compliance with the UDO. Code 6.13.6**
- Interconnectivity was discussed during review with Bojangles. **Wendy's has made a significant attempt with adjacent parcel and appears that talks have broken off.** Request a stub out for future use of interconnectivity with adjacent property. **Code 5.3.10.d**
- Percentage of front façade was more 25% of other material. Red exterior siding (Fiber Cement) exceeds 25%. **Updated changes: Removed the red fiber cement and added brick to 90% of exterior building. 6.13.3.a.i.**
- Trash enclosure fence has been **updated to brick to match the building.** Code **6.13.5.a.1.**
- Brick Colors –Belden BR -1 Tumbleweed Velour and Belden BR-2 Gray Smooth. **Approved color pallet - ARB review with samples.**
- Signage dimensions not provided. **This will be submitted at later date to staff for review. Wendy's updated plan and removed roofline concern. (Table 9.5.1. Attached signs)**
- Confirm crosswalk is stamped concrete.
- Landscaping plan changed & added more shrubs around pond & staggered for better aesthetics.

Staff recommends that the application of Wendy's be issued a Certificate of Appropriateness on condition of ARB approval.



VICINITY MAP
NOT TO SCALE

INDEX OF DRAWINGS

DWG. NO.	DESCRIPTION	SHEET NO.	DWG. NO.	DESCRIPTION	SHEET NO.
C-1	COVER SHEET	1 OF 10			
C-2	EXISTING CONDITIONS AND DEMOLITION PLAN	2 OF 10			
C-3	SITE PLAN	3 OF 10			
C-4	GRADING & STORMWATER DRAINAGE PLAN	4 OF 10			
C-5	LANDSCAPE PLAN	5 OF 10			
C-6	WATER & SEWER DETAILS SHEET	6 OF 10			
C-7	SITE DETAILS SHEET	7 OF 10			
C-8	DUMPSTER ENCLOSURE DETAILS SHEET	8 OF 10			
C-9	WENDY'S STANDARD DETAILS SHEET #1	9 OF 10			
C-10	WENDY'S STANDARD DETAILS SHEET #2	10 OF 10			

DEVELOPER/APPLICANT:
FFC LIMITED PARTNERSHIP
TIGE DARNER, CFO
166 SOUTHGATE DRIVE, SUITE 10
BOONE, NC 28607
(828) 262-1811
tdarner@tarheelcapital.com

CIVIL ENGINEER:
MUNICIPAL ENGINEERING, INC.
ALAN CREES, PE
820-B STATE FARM ROAD
BOONE, NC 28607
(828) 262-1767
acrees@mesco.com

SURVEYOR:
FREELAND-CLINKSCALES &
ASSOCIATES, INC. OF NC
VAN CLINKSCALES
201 2ND AVE. EAST
HENDERSONVILLE, NC 28792
(828) 697-6539
fcaofnc@outlook.com

PROPERTY OWNER:
HELEN R. COLE & FRED A. COLE
CO-TRUSTEES
209 AMENITY ROAD
CHAPIN, SC 29036

ARCHITECT:
DESIGN +, INC.
KENNETH BROWN, AIA
1449 BARDSTOWN ROAD, SUITE 200
LOUISVILLE, KY 40204
(502) 454-5011
kenb@designplusinc.com

WENDY'S RESTAURANT FFC LIMITED PARTNERSHIP COLUMBIA AVENUE CHAPIN, SOUTH CAROLINA

PROJECT NO. B24052

Applicant's Certification

I (We) hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and I (we) are responsible for the land disturbance and related maintenance thereof. Lexington County authorities will be allowed to enter the project site for the purpose of on-site inspections.

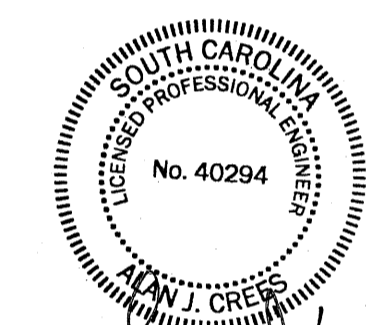
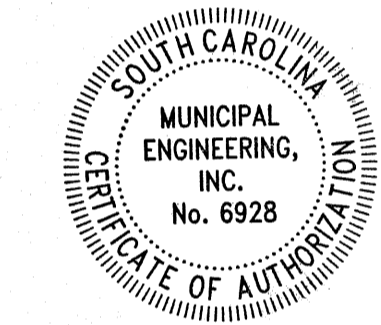
Date _____ Owner/Person Financially Responsible _____

Designer's Certification

"I hereby certify that this plan is designed to contain soil on the property concerned to the maximum extent, to provide for the protection of the property and the proposed improvements thereon from the effects of flooding, to provide for the control of the runoff from the property, and that all the provisions for sediment control and storm drainage are in accordance with the Stormwater Management and Sediment Control Ordinance for Lexington County, South Carolina."

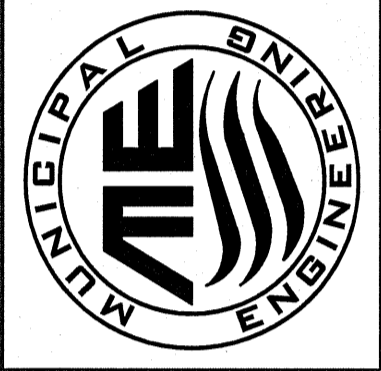
Date _____ Designer's Signature and Certification _____

Municipal Engineering, Inc.
Boone, NC Garner, NC



By: *[Signature]* 1-3-25
Professional Engineer

MUNICIPAL ENGINEERING, INC.
 68 SHIPWASH DRIVE, GARNER, NC 27529 - PHONE: 919-772-5393
 820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
 LICENSE NUMBER: F-0812 & C-586



**WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA**

LEGEND

- | | | | |
|--|-------------------------|--|---|
| | EX. SAN. SEWER MANHOLE | | PROPOSED SAN. SEWER MANHOLE |
| | EX. SAN. SEWER CLEANOUT | | PROPOSED SAN. SEWER CLEANOUT |
| | EX. WATER METER | | PROPOSED SAN. SEWER PUMP STATION |
| | EX. GATE VALVE | | PROPOSED SAN. SEWER VALVE VAULT |
| | EX. FIRE HYDRANT | | PROPOSED GREASE TRAP |
| | EX. POWER POLE | | PROPOSED WATER METER |
| | EX. LIGHT POLE | | PROPOSED WATER VALVE VAULT |
| | EX. GUY WIRE | | PROPOSED GATE VALVE |
| | EX. CATCH BASIN | | PROPOSED FIRE HYDRANT |
| | EX. DROP INLET | | PROPOSED POWER POLE |
| | EX. STORM MH | | PROPOSED LIGHT POLE |
| | EX. GAS MARKER | | PROPOSED SIGN |
| | EX. WELL | | PROPOSED ELECTRICAL TRANSFORMER |
| | EX. TREE | | PROPOSED STORMWATER INLINE SIDEWALK DRAIN |
| | EX. SHRUB | | PROPOSED STORMWATER CATCH BASIN |
| | EX. SIGN | | PROPOSED STORMWATER DROP INLET |
| | EX. TELEPHONE PEDESTAL | | PROPOSED STORMWATER JUNCTION BOX / AREA INLET |
| | EX. FIBER OPTIC MARKER | | PROPOSED STORMWATER OUTLET CONTROL STRUCTURE |

LINETYPES

- | | | |
|--|-----|------------------------------|
| | 415 | EXISTING MAJOR CONTOUR |
| | | EXISTING MINOR CONTOUR |
| | 415 | PROPOSED MAJOR CONTOUR |
| | 414 | PROPOSED MINOR CONTOUR |
| | | STREAM OR CREEK |
| | | DITCH OR SWALE |
| | T/B | STREAM OR CREEK TOP OF BANK |
| | FW | EXISTING FLOODWAY LIMIT |
| | FP | EXISTING FLOODPLAIN LIMIT |
| | FF | EXISTING FLOOD FRINGE LIMIT |
| | | EXISTING STORM DRAINAGE |
| | | PROPOSED DRAINAGE PIPE |
| | | EXISTING SANITARY SEWER |
| | | PROPOSED SANITARY SEWER MAIN |
| | | EXISTING WATERLINE |
| | | PROPOSED WATERMAIN |
| | | EXISTING FENCE |
| | | PROPOSED FENCE |
| | | PROPOSED GUARDRAIL |
| | R/W | RIGHT-OF-WAY LINE |
| | EA | EASEMENTS |
| | TD | TEMPORARY BERM DITCH |
| | SF | SILT FENCE |
| | | EXISTING WOODS LINE |
| | // | EXISTING OVERHEAD POWERLINE |
| | G | UNDERGROUND GAS LINE |
| | P | UNDERGROUND POWERLINE |
| | T | UNDERGROUND TELEPHONE LINE |
| | C | UNDERGROUND CABLE LINE |
| | FO | UNDERGROUND FIBER OPTIC |

ZONING COMPLIANCE INFORMATION

PARCEL NO.: 000700-03-185
 DEED BOOK & PAGE: 12886-186
 JURISDICTION: CHAPIN, SOUTH CAROLINA
 ZONED: IC - INTERSTATE COMMERCIAL
 SURROUNDING ZONING: IC - INTERSTATE COMMERCIAL
 LOT AREA: 71,810 SF (1.65 AC)
 GROSS FLOOR AREA: 2,456 SF
 BUILDING HEIGHT: 23'-6"
 EXISTING USE: VACANT
 PROPOSED USE: RESTAURANT

ENVIRONMENTAL INFORMATION

LATITUDE: 34.175154
 LONGITUDE: -81.327722
 RIVER BASIN: BROAD

SWPPP STATEMENT

"I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."



PLAN SET FOR TOWN
OF CHAPIN ZONING REVIEW

DATE	BY	REV.	DESCRIPTION
			COVER SHEET

SCALE:	AS SHOWN
DATE:	1-3-25
DRWN. BY:	EGT
CHKD. BY:	AJC
PROJECT NUMBER:	B24052
DRAWING NO.:	C-1
SHEET NO.:	1 OF 10

Color Schedule

#1

#2

#3

#4

EXTERIOR FINISH SCHEDULE

SF-1	STOREFRONT - "DARK BRONZE"
PJW	PICK-UP WINDOW TO MATCH STOREFRONT
SH-1	CERTAINTeed LANDMARK PRO - "COLONIAL SLATE"
M-3	METAL DRIP EDGE - SW 7599 "BRICK PAVER"
M-4	METAL - SW 9556 "INTERPID GREY"
M-7	METAL - SW 9574 "HULETT ORE"
BR-1	BRICK VENEER - "TUMBLEWEED VELOUR"
BR-2	BRICK VENEER - "CLINKER GRAY SMOOTH"
KW-1	KNOTWOOD PREFINISHED "CEDAR"
ACM-7	ALUMINUM COMPOSITE - "BUNNY GRAY"
PEX-1	EXTERIOR PAINT - SW 7519 "MEXICAN SAND"
PEX-2	EXTERIOR PAINT - SW 7599 "BRICK PAVER"
PEX-4	EXTERIOR PAINT - SW 9556 "INTERPID GREY"
PEX-12	EXTERIOR PAINT - SW 9574 "HULETT ORE"
BL-1	BOLLARD SLEEVE - "YELLOW"

EXTERIOR SIGNAGE SCHEDULE

WE-36	INTERNALLY ILLUMINATED WAVE 36" (WHITE FACED) WITH CAMEO
MF-51	NON-ILLUMINATED MFTO LETTER SIGN
QR-08	NON-ILLUMINATED QIOR LETTER SIGN 8" (US AND CANADA MARKETS)
DP-06	NON-ILLUMINATED DELIVERY PICKUP LETTER SIGN 6"
AP-44	CREW DOOR DECAL
AP-45	"RING ME" SIGN

SITE NUMBER: 14722
 BUILDING TYPE: NEXT GEN 40
 ASSET TYPE: FREESTANDING
 CLASSIFICATION: NEW
 OWNER: TAR HEEL CAPITAL CORP #2
 BASE VERSION: 2022
 UPGRADE CLASSIFICATION: NEW BUILD
 PROJECT YEAR: 2024
 DESIGN TYPE: GLOBAL
 DRAWING RELEASE: SPRING 2024

Project No. **21-091**

Results!

Design +,
 Bardstown-Eastern Building
 1449 Bardstown Rd., Suite 200
 Louisville, Kentucky 40204
 (502) 454-5511 (502) 454-4511 (fax)

566 COLUMBIA AVENUE
 CHAPIN, SC. 29036

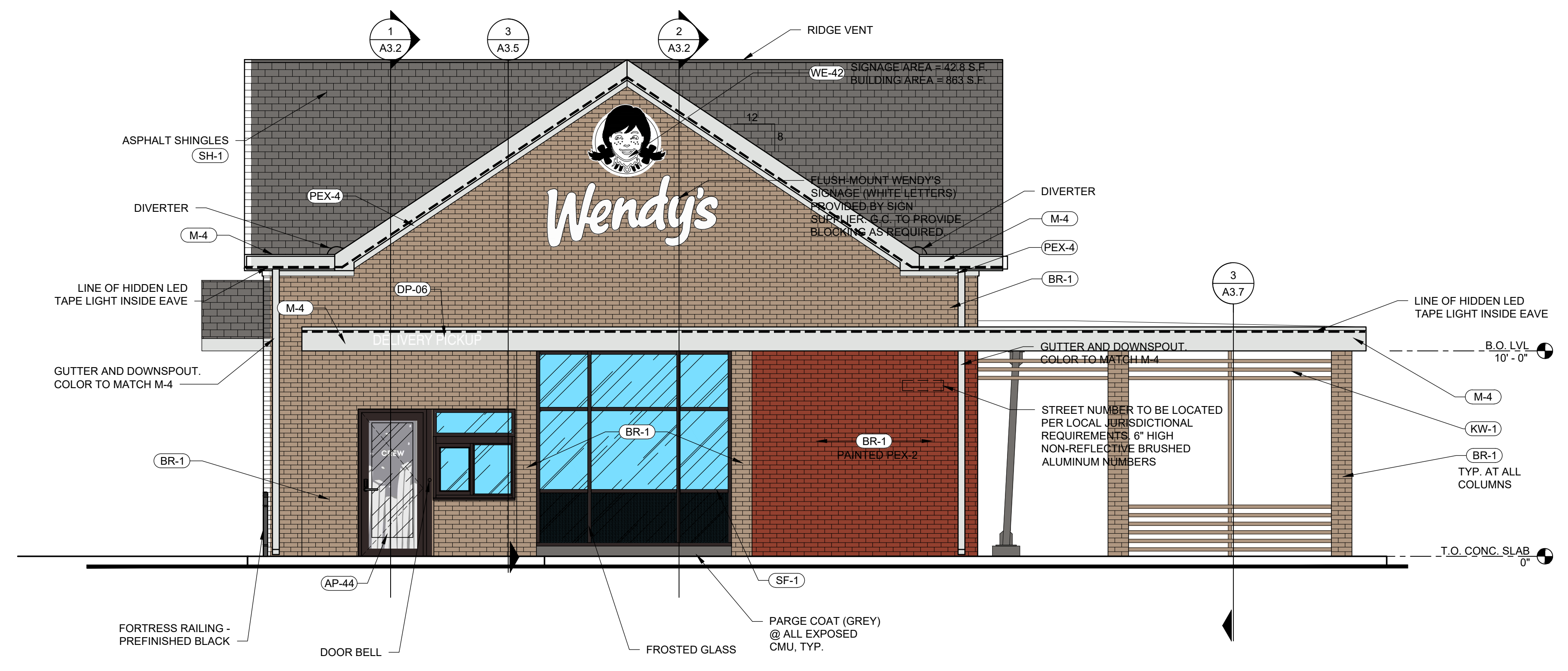
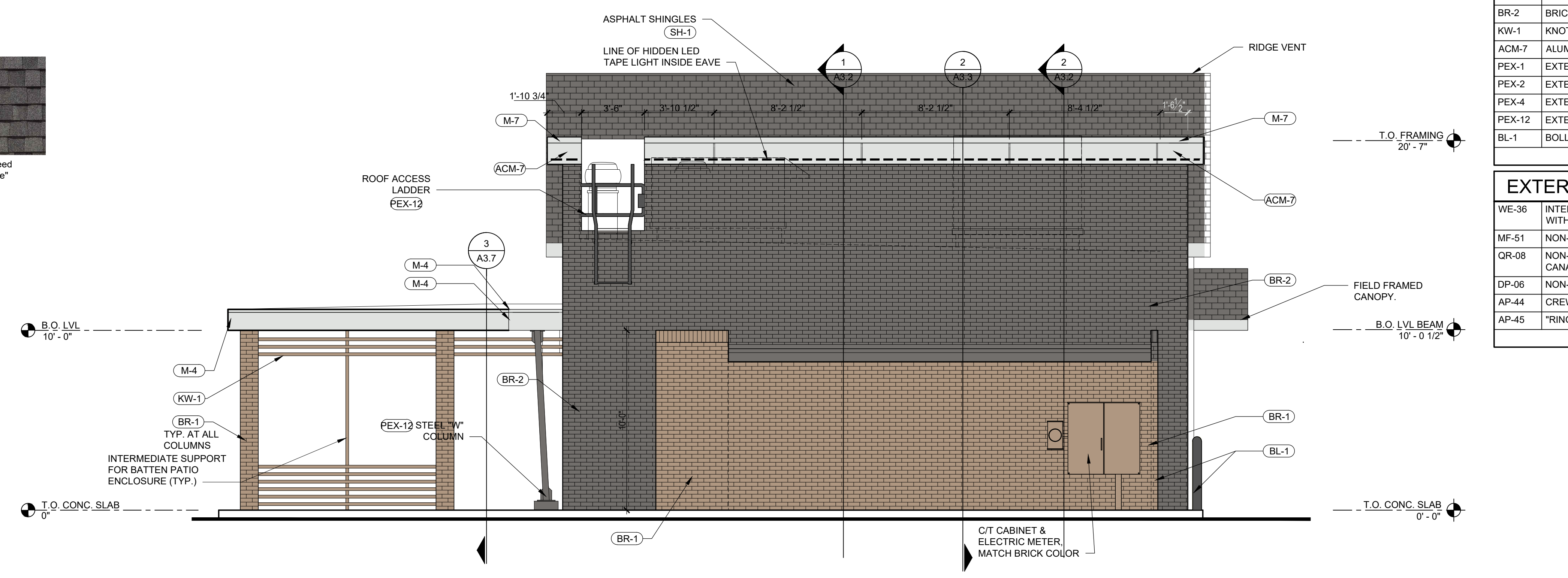
REV.	DATE	DESCRIPTION

ISSUE DATE: 12/28/2024
 PROJECT NUMBER: 14722
 DRAWN BY: KEN BROWN
 CHECKED BY: KEN BROWN

STATE OF SOUTH CAROLINA
 KENNETH RAY
 REGISTERED ARCHITECT
 3705

STATE OF SOUTH CAROLINA
 DESIGN +, INC.
 REGISTERED ARCHITECT
 Louisville, KY 100353

1/7/2025



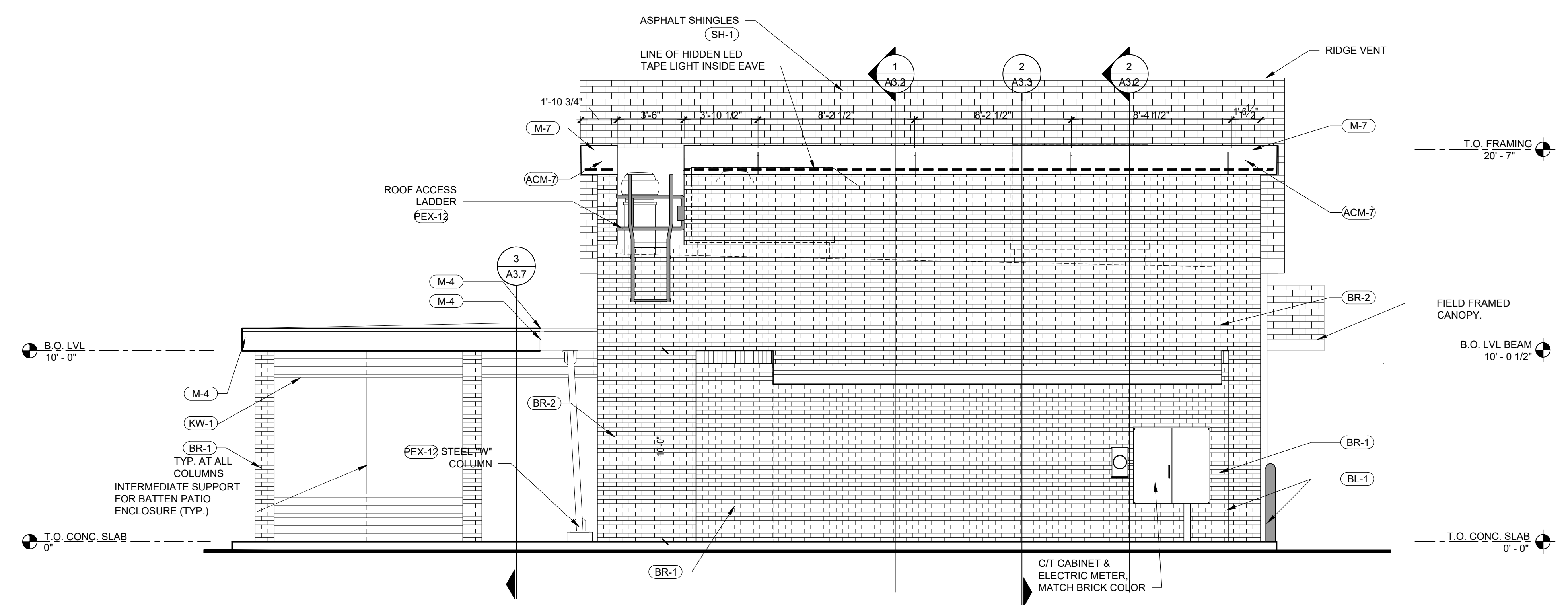
1/7/2025, 4:24 PM, N:\Projects\2024-091 Wendy's Chapin SC\Drawings\Sheets\30_Globall\Rev\Gr-40_A2.1a_Covered Exterior Elevations.dwg, KenB

EXTERIOR ELEVATIONS
 EIFS

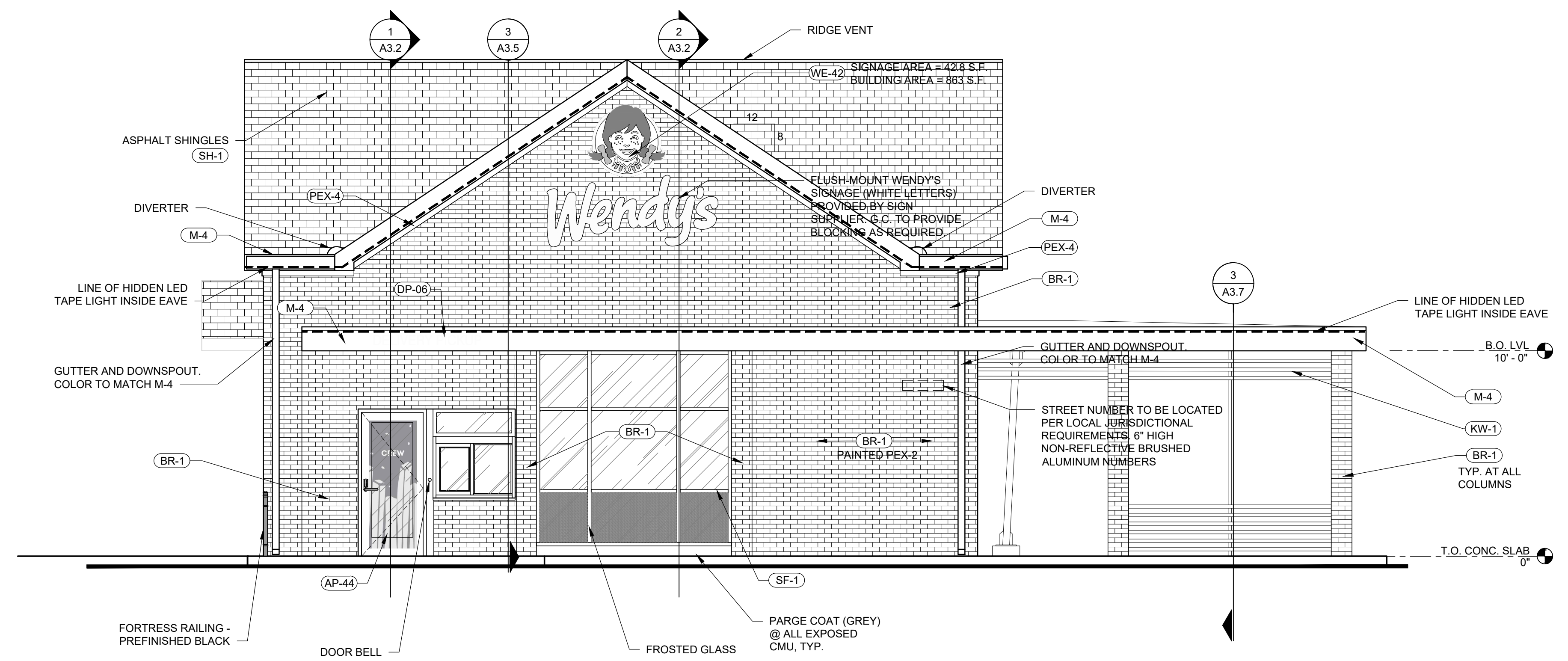
SHEET NUMBER

A2.1

1/7/2025, 4:23 PM, N:\Projects\2024\091 Wendy's Chapin SC\Drawings\Sheets\30_Global\Ext\Gr-40_A2.1_Extorior Elevations.dwg, KenB



REAR ELEVATION ②
1/4" = 1'-0"



FRONT ELEVATION ①
1/4" = 1'-0"

EXTERIOR FINISH SCHEDULE	
SF-1	STOREFRONT - "DARK BRONZE"
PJW	PICK-UP WINDOW TO MATCH STOREFRONT
SH-1	CERTAINTED LANDMARK PRO - "COLONIAL SLATE"
M-3	METAL DRIP EDGE - SW 7599 "BRICK PAVER"
M-4	METAL - SW 9556 "INTERPID GREY"
M-7	METAL - SW 9574 "HULETT ORE"
BR-1	BRICK VENEER - "TUMBLEWEED VELOUR"
BR-2	BRICK VENEER - "CLINKER GRAY SMOOTH"
KW-1	KNOTWOOD PREFINISHED "CEDAR"
ACM-7	ALUMINUM COMPOSITE - "BUNNY GRAY"
PEX-1	EXTERIOR PAINT - SW 7519 "MEXICAN SAND"
PEX-2	EXTERIOR PAINT - SW 7599 "BRICK PAVER"
PEX-4	EXTERIOR PAINT - SW 9556 "INTERPID GREY"
PEX-12	EXTERIOR PAINT - SW 9574 "HULETT ORE"
BL-1	BOLLARD SLEEVE - "YELLOW"

EXTERIOR SIGNAGE SCHEDULE	
WE-36	INTERNALLY ILLUMINATED WAVE 36" (WHITE FACED) WITH CAMEO
MF-51	NON-ILLUMINATED MFTO LETTER SIGN
QR-08	NON-ILLUMINATED QIOR LETTER SIGN 8" (US AND CANADA MARKETS)
DP-06	NON-ILLUMINATED DELIVERY PICKUP LETTER SIGN 6"
AP-44	CREW DOOR DECAL
AP-45	"RING ME" SIGN

NOTE: ALLOW BRICK VENEER TO "CURE" FOR A MINIMUM OF 28 DAYS BEFORE PAINTING.

SITE NUMBER:	14722
BUILDING TYPE:	NEXT GEN 40
ASSET TYPE:	FREESTANDING
CLASSIFICATION:	NEW
OWNER:	TAR HEEL CAPITAL CORP #2
BASE VERSION:	2022
UPGRADE CLASSIFICATION:	NEW BUILD
PROJECT YEAR:	2024
DESIGN TYPE:	GLOBAL
DRAWING RELEASE:	SPRING 2024

Project No. **21-091**

snidesign
ARCHITECTS

Results!

Design +,
Bardstown-Eastern Building
1449 Bardstown Rd., Suite 200
Louisville, Kentucky 40204
(502) 454-5511 (502) 454-4511 (fax)

Wendy's.
566 COLUMBIA AVENUE
CHAPIN, SC. 29036

REV.	DATE	DESCRIPTION
▲		
▲		
▲		
▲		

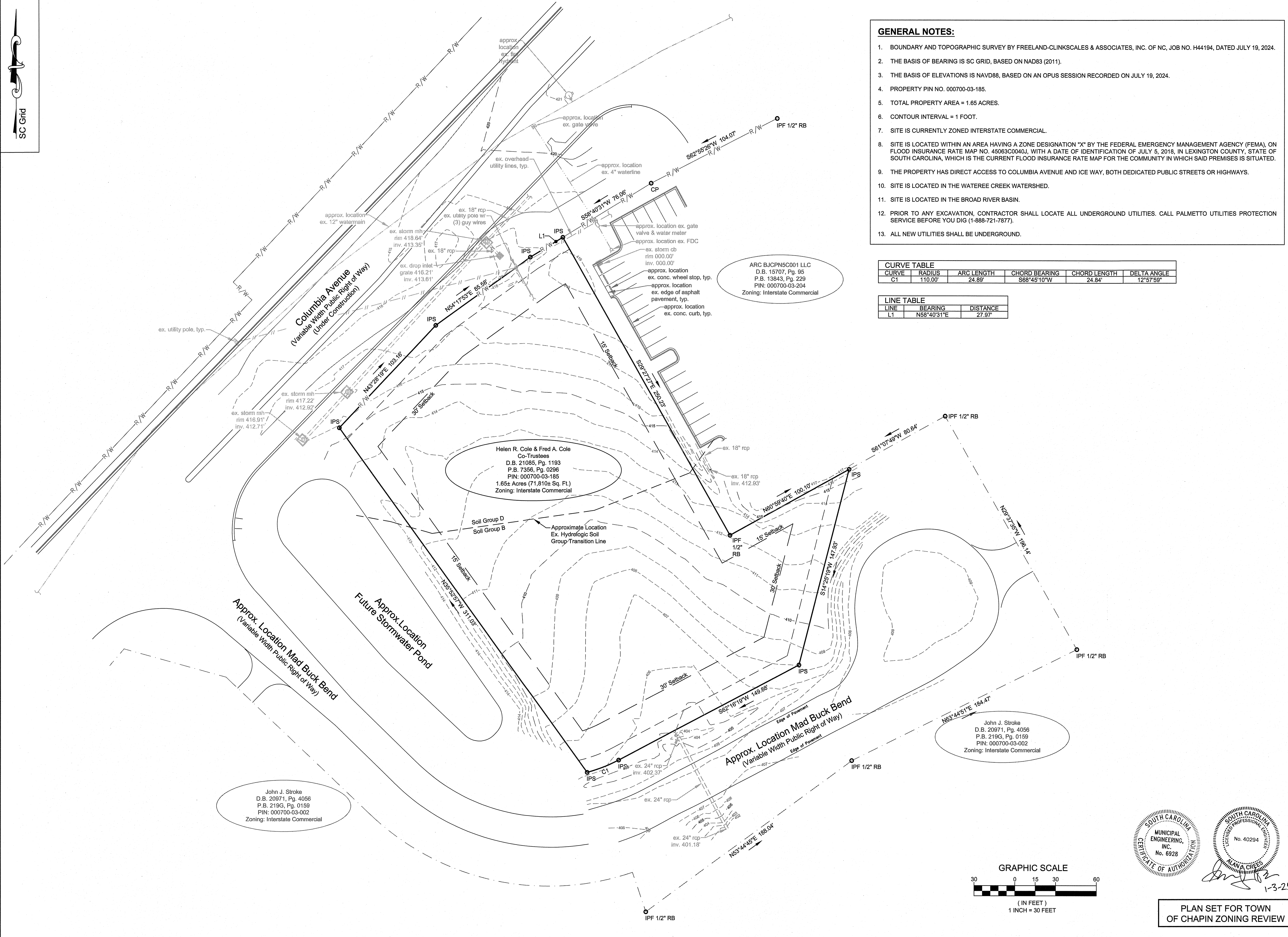
ISSUE DATE: 12/28/2024
PROJECT NUMBER: 14722
DRAWN BY: KEN BROWN
CHECKED BY: KEN BROWN

STATE OF SOUTH CAROLINA
KENNETH RAY BROWN
REGISTERED ARCHITECT
3705

STATE OF SOUTH CAROLINA
DESIGN +, INC.
REGISTERED ARCHITECT
Louisville, KY 400353
1/7/2025

EXTERIOR ELEVATIONS
EIFS

SHEET NUMBER
A2.1



- GENERAL NOTES:**
- BOUNDARY AND TOPOGRAPHIC SURVEY BY FREELAND-CLINKSCALES & ASSOCIATES, INC. OF NC, JOB NO. H44194, DATED JULY 19, 2024.
 - THE BASIS OF BEARING IS SC GRID, BASED ON NAD83 (2011).
 - THE BASIS OF ELEVATIONS IS NAVD88, BASED ON AN OPUS SESSION RECORDED ON JULY 19, 2024.
 - PROPERTY PIN NO. 000700-03-185.
 - TOTAL PROPERTY AREA = 1.65 ACRES.
 - CONTOUR INTERVAL = 1 FOOT.
 - SITE IS CURRENTLY ZONED INTERSTATE COMMERCIAL.
 - SITE IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 45063C0040J, WITH A DATE OF IDENTIFICATION OF JULY 5, 2018, IN LEXINGTON COUNTY, STATE OF SOUTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
 - THE PROPERTY HAS DIRECT ACCESS TO COLUMBIA AVENUE AND ICE WAY, BOTH DEDICATED PUBLIC STREETS OR HIGHWAYS.
 - SITE IS LOCATED IN THE WATEREE CREEK WATERSHED.
 - SITE IS LOCATED IN THE BROAD RIVER BASIN.
 - PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES. CALL PALMETTO UTILITIES PROTECTION SERVICE BEFORE YOU DIG (1-888-721-7877).
 - ALL NEW UTILITIES SHALL BE UNDERGROUND.

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	110.00'	24.89'	S68°45'10"W	24.84'	12°57'59"

LINE TABLE

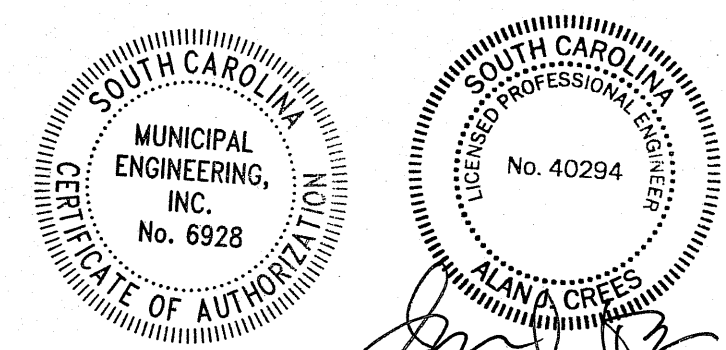
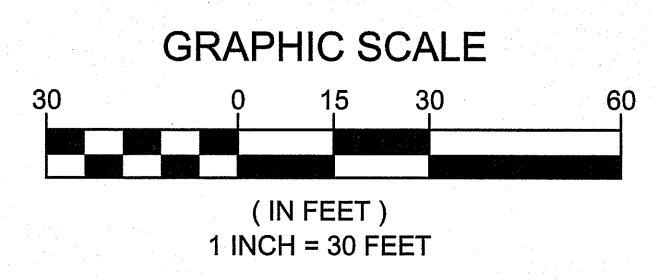
LINE	BEARING	DISTANCE
L1	N58°40'31"E	27.97'

ARC BJCPN5C001 LLC
 D.B. 15707, Pg. 95
 P.B. 13843, Pg. 229
 PIN: 000700-03-204
 Zoning: Interstate Commercial

Helen R. Cole & Fred A. Cole
 Co-Trustees
 D.B. 21085, Pg. 1193
 P.B. 7359, Pg. 0296
 PIN: 000700-03-185
 1.65± Acres (71,810± Sq. Ft.)
 Zoning: Interstate Commercial

John J. Stroke
 D.B. 20971, Pg. 4056
 P.B. 219G, Pg. 0159
 PIN: 000700-03-002
 Zoning: Interstate Commercial

John J. Stroke
 D.B. 20971, Pg. 4056
 P.B. 219G, Pg. 0159
 PIN: 000700-03-002
 Zoning: Interstate Commercial



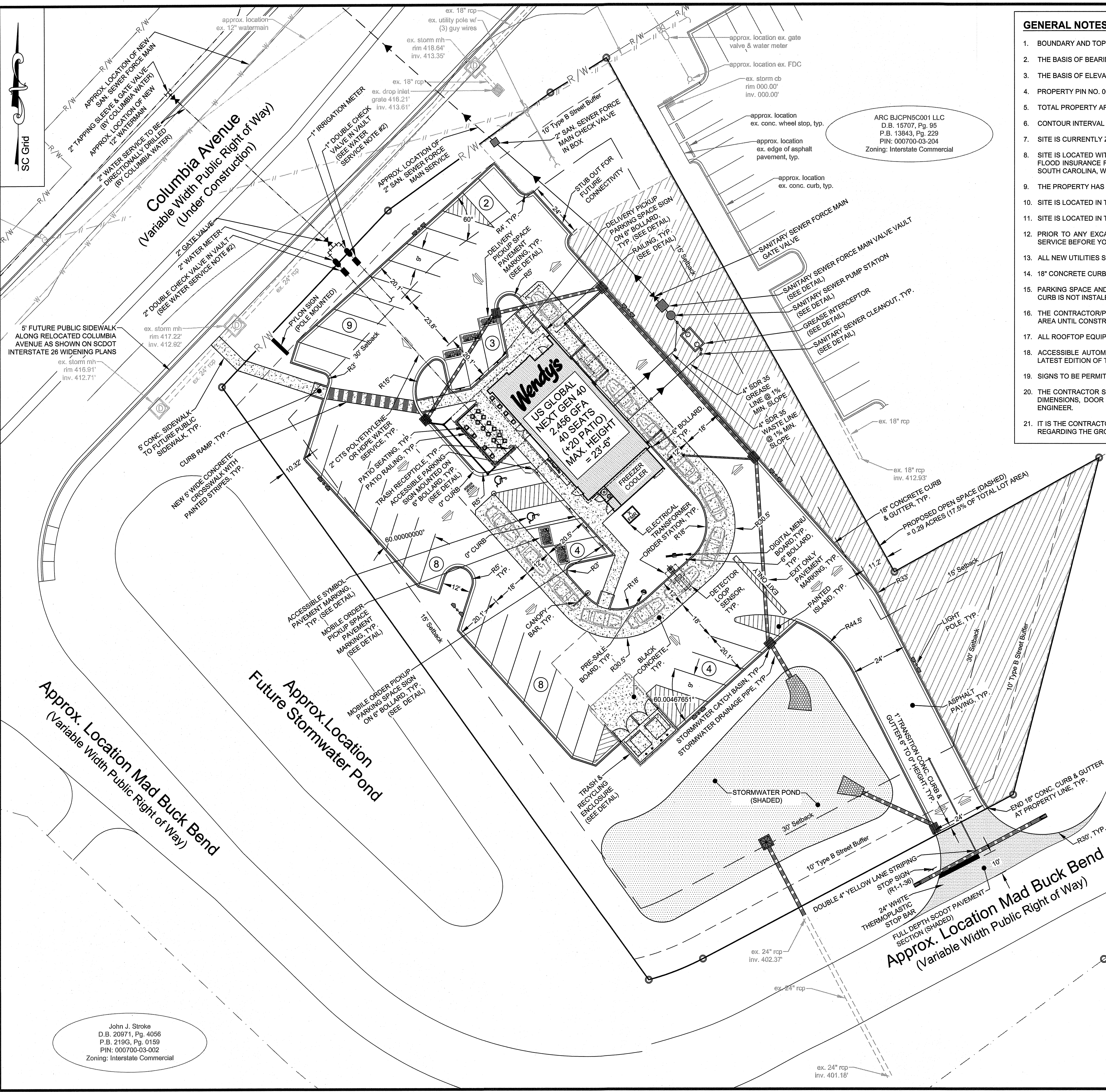
PLAN SET FOR TOWN
 OF CHAPIN ZONING REVIEW



EXISTING CONDITIONS AND
 DEMOLITION PLAN

DATE	BY	DESCRIPTION

SCALE: AS SHOWN
 DATE: 1-3-25
 DRWN. BY: EGT
 CHKD. BY: AJC
 PROJECT NUMBER: B24052
 DRAWING NO. C-2 SHEET NO. 2 OF 10



- GENERAL NOTES:**
- BOUNDARY AND TOPOGRAPHIC SURVEY BY FREELAND-CLINKSCALES & ASSOCIATES, INC. OF NC, JOB NO. H44194, DATED JULY 19, 2024.
 - THE BASIS OF BEARING IS SC GRID, BASED ON NAD83 (2011).
 - THE BASIS OF ELEVATIONS IS NAVD88, BASED ON AN OPUS SESSION RECORDED ON JULY 19, 2024.
 - PROPERTY PIN NO. 000700-03-185.
 - TOTAL PROPERTY AREA = 1.65 ACRES.
 - CONTOUR INTERVAL = 1 FOOT.
 - SITE IS CURRENTLY ZONED INTERSTATE COMMERCIAL.
 - SITE IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 45083C0040J, WITH A DATE OF IDENTIFICATION OF JULY 5, 2018, IN LEXINGTON COUNTY, STATE OF SOUTH CAROLINA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PREMISES IS SITUATED.
 - THE PROPERTY HAS DIRECT ACCESS TO COLUMBIA AVENUE AND ICE WAY, BOTH DEDICATED PUBLIC STREETS OR HIGHWAYS.
 - SITE IS LOCATED IN THE WATERCREEK WATERSHED.
 - SITE IS LOCATED IN THE BROAD RIVER BASIN.
 - PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES. CALL PALMETTO UTILITIES PROTECTION SERVICE BEFORE YOU DIG (1-888-721-7877).
 - ALL NEW UTILITIES SHALL BE UNDERGROUND.
 - 18" CONCRETE CURB AND GUTTER (SCDOT STD. DWG. 720-105-01) SHALL BE USED AS SHOWN ON PLAN (REFER TO DETAIL).
 - PARKING SPACE AND DRIVEWAY DIMENSIONS ARE TO FACE OF CURB. RADII ARE TO BACK OF CURB OR EDGE OF PAVEMENT WHERE CURB IS NOT INSTALLED.
 - THE CONTRACTOR/PROPERTY OWNER IS RESPONSIBLE FOR ANY DAMAGE TO THE WATER & SEWER MAINS IN THE CONSTRUCTION AREA UNTIL CONSTRUCTION IS COMPLETE.
 - ALL ROOFTOP EQUIPMENT SHALL BE SCREENED OR OTHERWISE PLACED OUT OF VIEW FROM ADJACENT STREETS.
 - ACCESSIBLE AUTOMOBILE PARKING SPACES SHALL BE MARKED BOTH ON PAVEMENT AND WITH SIGNS IN COMPLIANCE WITH THE LATEST EDITION OF THE SOUTH CAROLINA ACCESSIBILITY CODE.
 - SIGNS TO BE PERMITTED BY OTHERS.
 - THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL BUILDING PLANS FOR EXACT BUILDING DIMENSIONS, COLUMN LINES, WALL DIMENSIONS, DOOR LOCATIONS, STOOP/STEP LOCATIONS ETC. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BETWEEN THE CIVIL PLANS / ARCHITECTURAL PLANS / STRUCTURAL PLANS REGARDING THE GROUND ELEVATIONS DIRECTLY EXTERNAL OF THE BUILDING IN RELATION TO THE STRUCTURAL BUILDING FOOTINGS.

PARKING CALCULATIONS

MINIMUM PARKING SPACES REQUIRED = 1 SPACE / 2 SEATS
 MINIMUM PARKING SPACES REQUIRED = (40 SEATS + 20 SEATS) / 2 SEATS = 30 SPACES

OR

MINIMUM PARKING SPACES REQUIRED = 1 SPACE / 75 SF DINING AREA
 MINIMUM PARKING SPACES REQUIRED = 1,090 SF / 75SF = 15 SPACES

PARKING SPACES PROVIDED = 38 SPACES

- WATER SERVICE NOTES:**
- CONTRACTOR SHALL CONTACT THE CITY OF COLUMBIA'S PUBLIC WORKS DEPARTMENT TO SCHEDULE INSTALLATION OF TAPS AND WATER ASSEMBLIES AFTER APPROPRIATE FEES ARE PAID.
 - BACKFLOW PREVENTERS SHALL BE DOUBLE CHECK VALVE ASSEMBLIES LOCATED IN BELOW GROUND VAULTS AND PROTECTED FROM FREEZING.

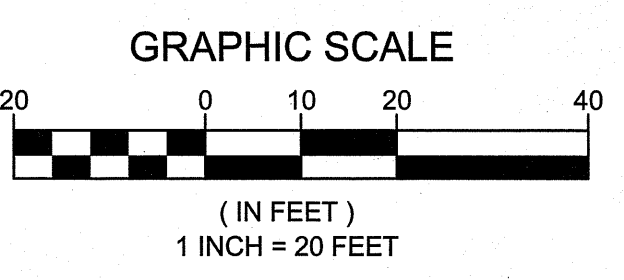
LOT COVERAGE CALCULATION:

TOTAL LOT AREA =	71,810 SF
LOT COVERAGE BY PROPOSED BUILDING =	2,456 SF
LOT COVERAGE BY PROPOSED PARKING LOT/DRIVEWAYS =	28,624 SF
LOT COVERAGE BY PROPOSED SIDEWALKS =	1,735 SF
TOTAL PROPOSED LOT COVERAGE =	32,815 SF
PROPOSED LOT COVERAGE PERCENTAGE =	(32,815 / 71,810) x 100% = 46% < 70% MAX. ALLOWED

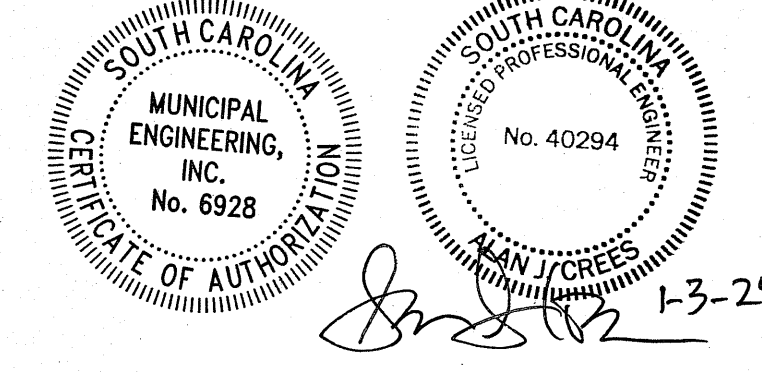
OPEN SPACE CALCULATION:

TOTAL LOT AREA =	71,810 SF
PROPOSED OPEN SPACE AREA =	12,539 SF
PROPOSED OPEN SPACE PERCENTAGE =	(12,539 / 71,810) x 100% = 17.5% > 5% MIN. REQUIRED

ARC BJCPCNS001 LLC
 D.B. 15707, Pg. 95
 P.B. 13843, Pg. 229
 PIN: 000700-03-204
 Zoning: Interstate Commercial

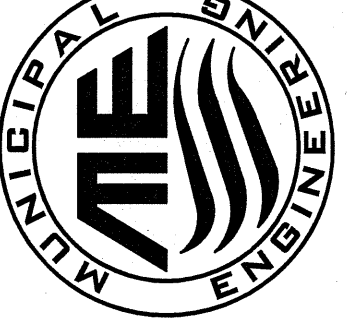


John J. Stroke
 D.B. 20971, Pg. 4056
 P.B. 219G, Pg. 0159
 PIN: 000700-03-002
 Zoning: Interstate Commercial



PLAN SET FOR TOWN
 OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
 68 SHIPWASH DRIVE, GARNER, NC 27529 - PHONE: 919-772-5393
 820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
 LICENSE NUMBER: F-0812 & C-586



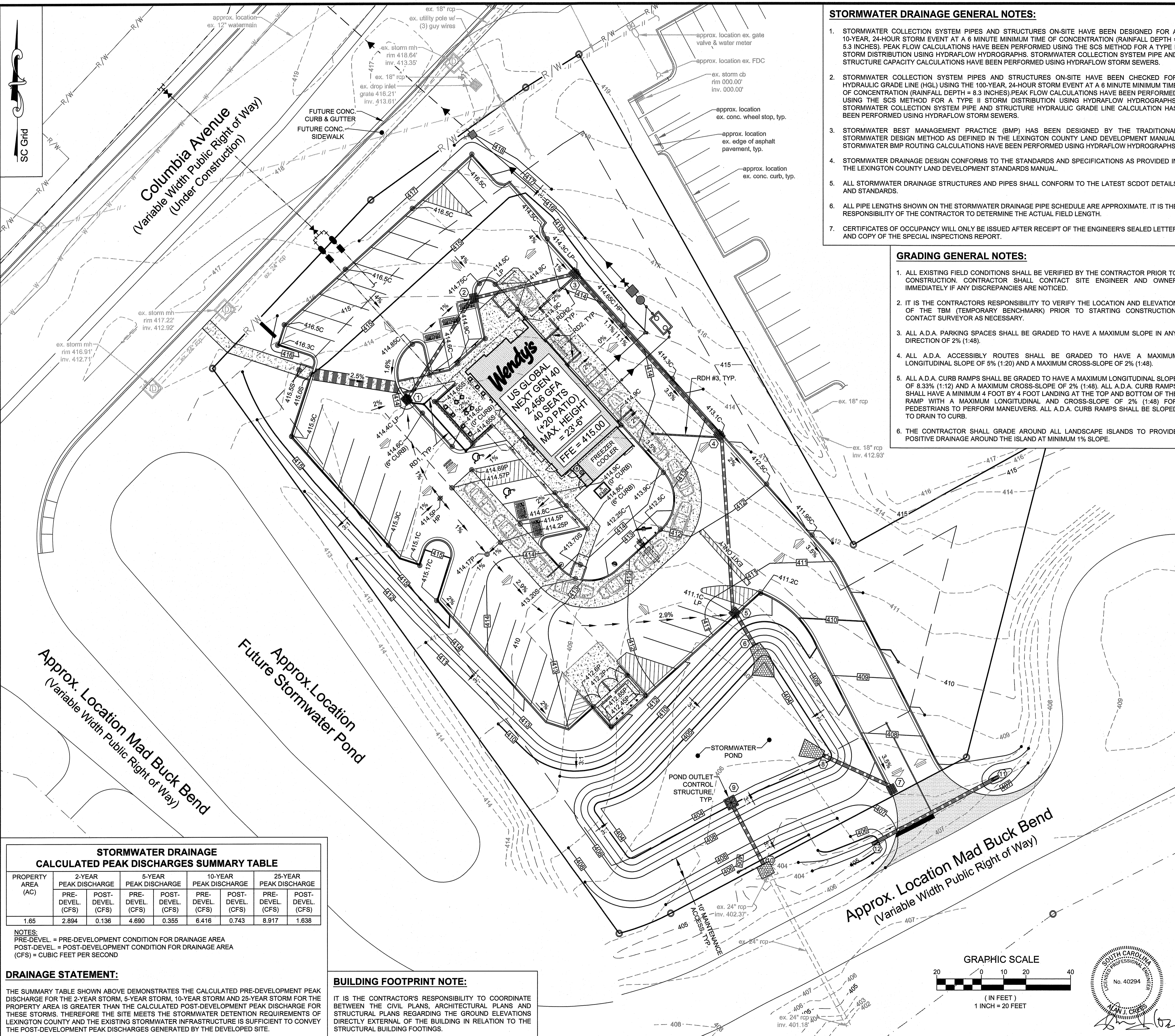
**WENDY'S RESTAURANT
 FFC LIMITED PARTNERSHIP
 COLUMBIA AVENUE
 CHAPIN, SOUTH CAROLINA**

SITE PLAN

DATE	BY	DESCRIPTION

SCALE: AS SHOWN
 DATE: 1-3-25
 DRWN. BY: EGT
 CHKD. BY: AJC
 PROJECT NUMBER: B24052
 DRAWING NO.: C-3
 SHEET NO.: 3 OF 10

John J. Stroke
 D.B. 20971, Pg. 4056
 P.B. 219G, Pg. 0159
 PIN: 000700-03-002
 Zoning: Interstate Commercial



- STORMWATER DRAINAGE GENERAL NOTES:**
- STORMWATER COLLECTION SYSTEM PIPES AND STRUCTURES ON-SITE HAVE BEEN DESIGNED FOR A 10-YEAR, 24-HOUR STORM EVENT AT A 6 MINUTE MINIMUM TIME OF CONCENTRATION (RAINFALL DEPTH = 5.3 INCHES). PEAK FLOW CALCULATIONS HAVE BEEN PERFORMED USING THE SCS METHOD FOR A TYPE II STORM DISTRIBUTION USING HYDRAFLOW HYDROGRAPHS. STORMWATER COLLECTION SYSTEM PIPE AND STRUCTURE CAPACITY CALCULATIONS HAVE BEEN PERFORMED USING HYDRAFLOW STORM SEWERS.
 - STORMWATER COLLECTION SYSTEM PIPES AND STRUCTURES ON-SITE HAVE BEEN CHECKED FOR HYDRAULIC GRADE LINE (HGL) USING THE 100-YEAR, 24-HOUR STORM EVENT AT A 6 MINUTE MINIMUM TIME OF CONCENTRATION (RAINFALL DEPTH = 8.3 INCHES). PEAK FLOW CALCULATIONS HAVE BEEN PERFORMED USING THE SCS METHOD FOR A TYPE II STORM DISTRIBUTION USING HYDRAFLOW HYDROGRAPHS. STORMWATER COLLECTION SYSTEM PIPE AND STRUCTURE HYDRAULIC GRADE LINE CALCULATION HAS BEEN PERFORMED USING HYDRAFLOW STORM SEWERS.
 - STORMWATER BEST MANAGEMENT PRACTICE (BMP) HAS BEEN DESIGNED BY THE TRADITIONAL STORMWATER DESIGN METHOD AS DEFINED IN THE LEXINGTON COUNTY LAND DEVELOPMENT MANUAL. STORMWATER BMP ROUTING CALCULATIONS HAVE BEEN PERFORMED USING HYDRAFLOW HYDROGRAPHS.
 - STORMWATER DRAINAGE DESIGN CONFORMS TO THE STANDARDS AND SPECIFICATIONS AS PROVIDED IN THE LEXINGTON COUNTY LAND DEVELOPMENT STANDARDS MANUAL.
 - ALL STORMWATER DRAINAGE STRUCTURES AND PIPES SHALL CONFORM TO THE LATEST SCODT DETAILS AND STANDARDS.
 - ALL PIPE LENGTHS SHOWN ON THE STORMWATER DRAINAGE PIPE SCHEDULE ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL FIELD LENGTH.
 - CERTIFICATES OF OCCUPANCY WILL ONLY BE ISSUED AFTER RECEIPT OF THE ENGINEER'S SEALED LETTER AND COPY OF THE SPECIAL INSPECTIONS REPORT.

- GRADING GENERAL NOTES:**
- ALL EXISTING FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT SITE ENGINEER AND OWNER IMMEDIATELY IF ANY DISCREPANCIES ARE NOTICED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF THE TBM (TEMPORARY BENCHMARK) PRIOR TO STARTING CONSTRUCTION. CONTACT SURVEYOR AS NECESSARY.
 - ALL A.D.A. PARKING SPACES SHALL BE GRADED TO HAVE A MAXIMUM SLOPE IN ANY DIRECTION OF 2% (1:48).
 - ALL A.D.A. ACCESSIBLY ROUTES SHALL BE GRADED TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% (1:20) AND A MAXIMUM CROSS-SLOPE OF 2% (1:48).
 - ALL A.D.A. CURB RAMPS SHALL BE GRADED TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% (1:12) AND A MAXIMUM CROSS-SLOPE OF 2% (1:48). ALL A.D.A. CURB RAMPS SHALL HAVE A MINIMUM 4 FOOT BY 4 FOOT LANDING AT THE TOP AND BOTTOM OF THE RAMP WITH A MAXIMUM LONGITUDINAL AND CROSS-SLOPE OF 2% (1:48) FOR PEDESTRIANS TO PERFORM MANEUVERS. ALL A.D.A. CURB RAMPS SHALL BE SLOPED TO DRAIN TO CURB.
 - THE CONTRACTOR SHALL GRADE AROUND ALL LANDSCAPE ISLANDS TO PROVIDE POSITIVE DRAINAGE AROUND THE ISLAND AT MINIMUM 1% SLOPE.

GRADING LEGEND

- 415.00s Existing Grade Elev.
- 415.00P FINISHED GRADE SPOT ELEV. TOP OF NEW PAVEMENT
- 415.00C FINISHED GRADE SPOT ELEV. TOP OF NEW CURB
- 415.00S FINISHED GRADE SPOT ELEV. TOP OF NEW SIDEWALK
- 415.00G FINISHED GRADE SPOT ELEV. TOP OF GRADED SURFACE
- FFE = 415.00 FINISHED FLOOR ELEV. FOR NEW BUILDING
- 3:1 FINISHED GRADE SLOPE (HORIZONTAL SLOPE: VERTICAL SLOPE) & GRADE DIRECTION
- 5% FINISHED GRADE SLOPE (PERCENT SLOPE) & GRADE DIRECTION
- 415 EXISTING MAJOR CONTOUR
- 415 EXISTING MINOR CONTOUR
- 415 FINISHED GRADE MAJOR CONTOUR
- 415 FINISHED GRADE MINOR CONTOUR
- HP HIGH POINT
- LP LOW POINT

STORMWATER DRAINAGE LEGEND

- 1 NEW STORMWATER DRAINAGE STRUCTURE NUMBER
- NEW STORMWATER DRAINAGE PIPE
- NEW STORMWATER CATCH BASIN TYPE 1
- NEW STORMWATER DROP INLET
- NEW STORMWATER JUNCTION BOX
- NEW STORMWATER OUTLET CONTROL STRUCTURE
- NEW STORMWATER FLARED END SECTION
- RD ROOF DRAIN FROM DOWNSPOUT
- RDH ROOF DRAIN HEADER
- HDPE HIGH DENSITY POLYETHYLENE
- RCP REINFORCED CONCRETE PIPE

STORMWATER DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STRUCTURE TYPE	GRATE / RIM ELEVATION	INV. IN ELEVATION	INV. OUT ELEVATION
1	CB	413.90'	410.40'	410.40'
2	CB	414.00'	409.80'	409.80'
3	CB	413.80'	409.30'	409.30'
4	CB	412.60'	408.10'	408.10'
5	CB	410.60'	407.10'	407.10'
6	PIPE	--	--	406.85'
7	CB	407.00'	404.50'	404.50'
8	PIPE	--	--	404.00'
9	OCS	SEE DETAIL		
10	PIPE	--	--	403.00'
11	PIPE	--	405.00	--
12	PIPE	--	--	404.00'

STORMWATER DRAINAGE STRUCTURE NOTES:

CB: CATCH BASIN, TYPE 1 - SC DOT STD. DWG. 719-001-01 OR 719-310-00 WITH FRAMES, GRATES & HOOD PER SC DOT STD. DWG. 719-001-04.

OCS: STORMWATER DETENTION POND OUTLET CONTROL STRUCTURE - SEE DETAIL ON SHEET C.

PIPE: PROJECTING PIPE END.

ALL DRAINAGE STRUCTURES GREATER THAN 42" DEEP SHALL HAVE STEPS INSTALLED IN STRUCTURE.

STORMWATER DRAINAGE PIPE SCHEDULE

PIPE NO.	MATERIAL	LENGTH	DIAMETER	SLOPE
RD1	SCH 40	43'	4"	1% MIN.
RD2	SCH 40	30'	6"	1% MIN.
RDH2	SCH 40	33'	8"	1% MIN.
RDH3	SCH 40	52'	6"	1% MIN.
1-2	HDPE	53'	15"	1.13%
2-3	HDPE	45'	15"	1.11%
3-4	HDPE	94'	15"	1.28%
4-5	HDPE	78'	15"	1.28%
5-6	HDPE	16'	18"	1.56%
7-8	HDPE	34'	15"	1.47%
9-10	HDPE	29'	15"	1.72%
11-12	RCPBE	64'	15"	1.56%

- STORMWATER DRAINAGE PIPE NOTES:**
- HIGH DENSITY POLYETHYLENE (HDPE) PIPE SHALL BE DUAL WALL WITH SMOOTH INTERIOR. PIPE MUST MEET THE PRODUCT SPECIFICATIONS OF ASTM F867. PIPE JOINTS SHALL CONSIST OF AN INTEGRAL BELL AND SPIGOT TYPE JOINT WITH "O" RING RUBBER GASKET MEETING ASTM F477 PLACED ON THE SPIGOT END. AT LEAST TWO (2) CORRUGATIONS OF THE SPIGOT END MUST INSERT IN THE BELL END. INSTALLATION SHALL ADHERE TO THE SPECIFICATION OF ASTM D2321 AND CERTIFIED BY THE ENGINEER.
 - REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS IV PIPE AND SHALL MEET AASHTO M170. (UNLESS OTHERWISE NOTED)
 - ALL STORM DRAINAGE PIPES SHALL HAVE 1' MINIMUM COVER TO FINISHED SUBGRADE UNDER PAVEMENT AND TO FINISHED GRADE IN NON-LOAD BEARING AREAS.
 - RD - ROOF DRAIN - SCHEDULE 40 (SCH 40) PVC PIPE.
RDH - ROOF DRAIN HEADER - SCHEDULE 40 (SCH 40) PVC PIPE.
RCPBE - RCP BEVELED END SECTION - SCODT STD. DWG. 719-610-00.

STORMWATER DRAINAGE CALCULATED PEAK DISCHARGES SUMMARY TABLE

PROPERTY AREA (AC)	2-YEAR PEAK DISCHARGE		5-YEAR PEAK DISCHARGE		10-YEAR PEAK DISCHARGE		25-YEAR PEAK DISCHARGE	
	PRE-DEVEL. (CFS)	POST-DEVEL. (CFS)	PRE-DEVEL. (CFS)	POST-DEVEL. (CFS)	PRE-DEVEL. (CFS)	POST-DEVEL. (CFS)	PRE-DEVEL. (CFS)	POST-DEVEL. (CFS)
1.65	2.894	0.136	4.690	0.355	6.416	0.743	8.917	1.638

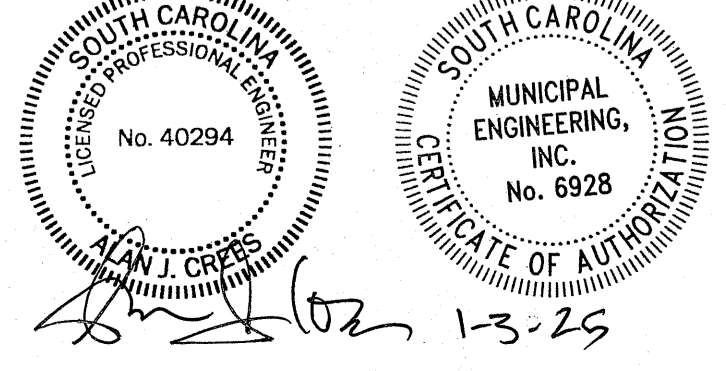
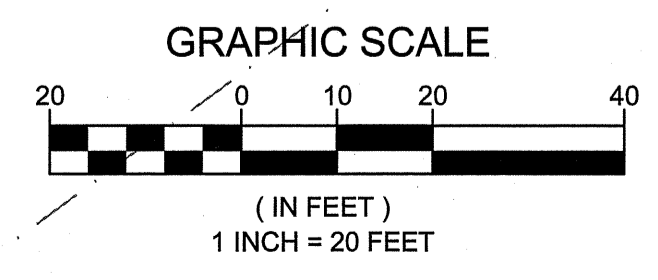
NOTES:
 PRE-DEVEL. = PRE-DEVELOPMENT CONDITION FOR DRAINAGE AREA
 POST-DEVEL. = POST-DEVELOPMENT CONDITION FOR DRAINAGE AREA
 (CFS) = CUBIC FEET PER SECOND

DRAINAGE STATEMENT:

THE SUMMARY TABLE SHOWN ABOVE DEMONSTRATES THE CALCULATED PRE-DEVELOPMENT PEAK DISCHARGE FOR THE 2-YEAR STORM, 5-YEAR STORM, 10-YEAR STORM AND 25-YEAR STORM FOR THE PROPERTY AREA IS GREATER THAN THE CALCULATED POST-DEVELOPMENT PEAK DISCHARGE FOR THESE STORMS. THEREFORE THE SITE MEETS THE STORMWATER DETENTION REQUIREMENTS OF LEXINGTON COUNTY AND THE EXISTING STORMWATER INFRASTRUCTURE IS SUFFICIENT TO CONVEY THE POST-DEVELOPMENT PEAK DISCHARGES GENERATED BY THE DEVELOPED SITE.

BUILDING FOOTPRINT NOTE:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BETWEEN THE CIVIL PLANS, ARCHITECTURAL PLANS AND STRUCTURAL PLANS REGARDING THE GROUND ELEVATIONS DIRECTLY EXTERNAL OF THE BUILDING IN RELATION TO THE STRUCTURAL BUILDING FOOTINGS.



PLAN SET FOR TOWN OF CHAPIN ZONING REVIEW

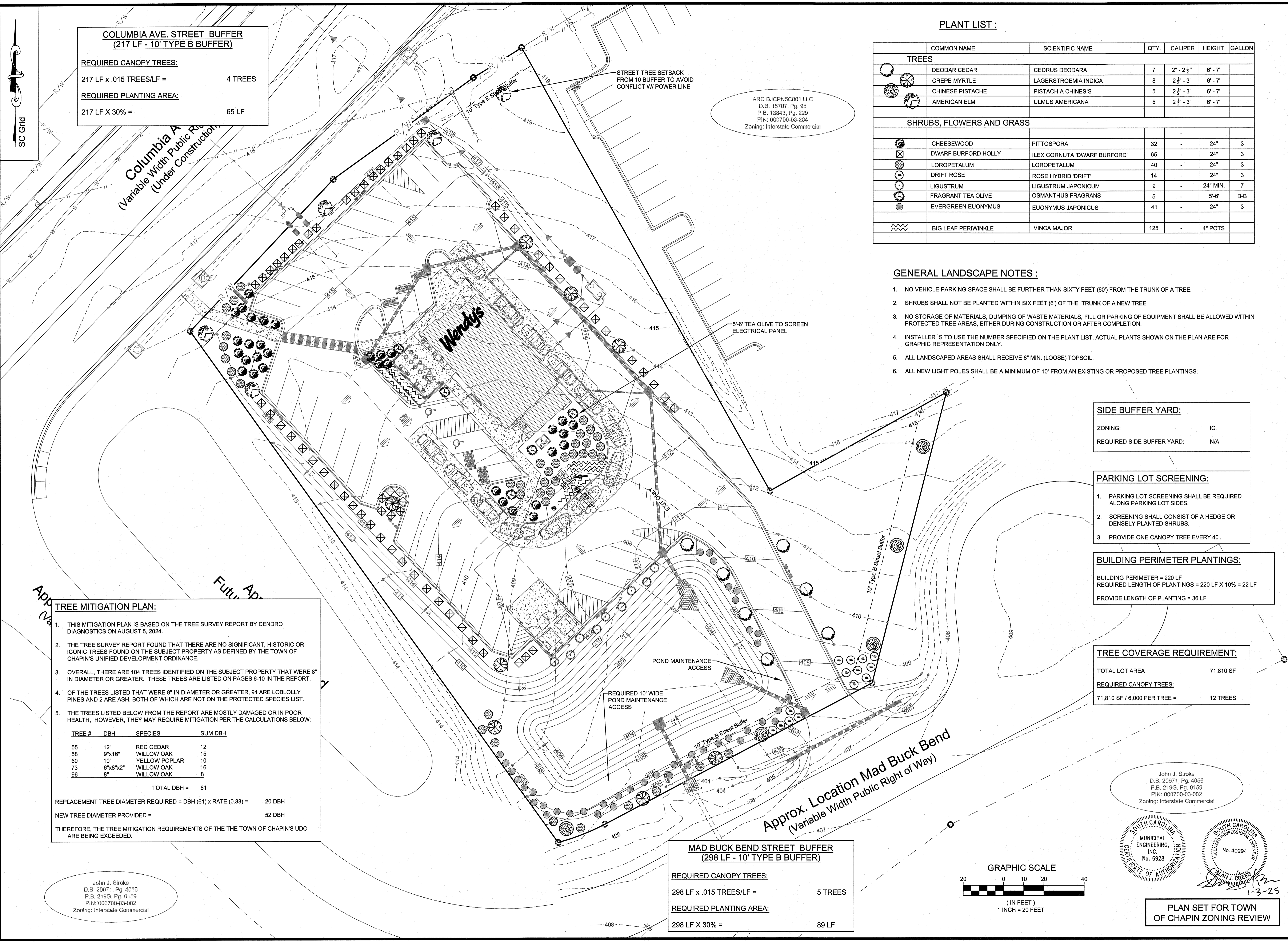
MUNICIPAL ENGINEERING, INC.
 68 SHIPWASH DRIVE, GARNER, NC 27529 - PHONE: 919-772-5393
 820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
 LICENSE NUMBER: F-0812 & C-586

WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA

GRADING AND STORMWATER DRAINAGE PLAN

NO.	DATE	BY	DESCRIPTION

SCALE: AS SHOWN
 DATE: 1-3-25
 DRWN. BY: EGT
 CHKD. BY: AJC
 PROJECT NUMBER: B24052
 DRAWING NO.: C-4
 SHEET NO.: 4 OF 10



COLUMBIA AVE. STREET BUFFER
(217 LF - 10' TYPE B BUFFER)

REQUIRED CANOPY TREES: 4 TREES

REQUIRED PLANTING AREA:
217 LF X 30% = 65 LF

ARC BJCPS001 LLC
D.B. 15707, Pg. 95
P.B. 13843, Pg. 229
PIN: 000700-03-204
Zoning: Interstate Commercial

PLANT LIST:

COMMON NAME	SCIENTIFIC NAME	QTY.	CALIPER	HEIGHT	GALLON
TREES					
DEODAR CEDAR	CEDRUS DEODARA	7	2" - 2 1/2"	6' - 7'	
CREPE MYRTLE	LAGERSTROEMIA INDICA	8	2 1/2" - 3"	6' - 7'	
CHINESE PISTACHE	PISTACHIA CHINESIS	5	2 1/2" - 3"	6' - 7'	
AMERICAN ELM	ULMUS AMERICANA	5	2 1/2" - 3"	6' - 7'	
SHRUBS, FLOWERS AND GRASS					
CHEESEWOOD	PITTOSPORA	32	-	24"	3
DWARF BURFORD HOLLY	ILEX CORNUTA 'DWARF BURFORD'	65	-	24"	3
LOROPETALUM	LOROPETALUM	40	-	24"	3
DRIFT ROSE	ROSE HYBRID 'DRIFT'	14	-	24"	3
LIGUSTRUM	LIGUSTRUM JAPONICUM	9	-	24" MIN.	7
FRAGRANT TEA OLIVE	OSMANTHUS FRAGRANS	5	-	5'-6"	B-B
EVERGREEN EUONYMUS	EUONYMUS JAPONICUS	41	-	24"	3
BIG LEAF PERIWINKLE	VINCA MAJOR	125	-	4" POTS	

- GENERAL LANDSCAPE NOTES:**
- NO VEHICLE PARKING SPACE SHALL BE FURTHER THAN SIXTY FEET (60') FROM THE TRUNK OF A TREE.
 - SHRUBS SHALL NOT BE PLANTED WITHIN SIX FEET (6') OF THE TRUNK OF A NEW TREE
 - NO STORAGE OF MATERIALS, DUMPING OF WASTE MATERIALS, FILL OR PARKING OF EQUIPMENT SHALL BE ALLOWED WITHIN PROTECTED TREE AREAS, EITHER DURING CONSTRUCTION OR AFTER COMPLETION.
 - INSTALLER IS TO USE THE NUMBER SPECIFIED ON THE PLANT LIST, ACTUAL PLANTS SHOWN ON THE PLAN ARE FOR GRAPHIC REPRESENTATION ONLY.
 - ALL LANDSCAPED AREAS SHALL RECEIVE 8" MIN. (LOOSE) TOPSOIL.
 - ALL NEW LIGHT POLES SHALL BE A MINIMUM OF 10' FROM AN EXISTING OR PROPOSED TREE PLANTINGS.

SIDE BUFFER YARD:

ZONING: IC
REQUIRED SIDE BUFFER YARD: N/A

PARKING LOT SCREENING:

- PARKING LOT SCREENING SHALL BE REQUIRED ALONG PARKING LOT SIDES.
- SCREENING SHALL CONSIST OF A HEDGE OR DENSELY PLANTED SHRUBS.
- PROVIDE ONE CANOPY TREE EVERY 40'.

BUILDING PERIMETER PLANTINGS:

BUILDING PERIMETER = 220 LF
REQUIRED LENGTH OF PLANTINGS = 220 LF X 10% = 22 LF
PROVIDE LENGTH OF PLANTING = 36 LF

TREE COVERAGE REQUIREMENT:

TOTAL LOT AREA 71,810 SF
REQUIRED CANOPY TREES:
71,810 SF / 6,000 PER TREE = 12 TREES

TREE MITIGATION PLAN:

- THIS MITIGATION PLAN IS BASED ON THE TREE SURVEY REPORT BY DENDRO DIAGNOSTICS ON AUGUST 5, 2024.
- THE TREE SURVEY REPORT FOUND THAT THERE ARE NO SIGNIFICANT, HISTORIC OR ICONIC TREES FOUND ON THE SUBJECT PROPERTY AS DEFINED BY THE TOWN OF CHAPIN'S UNIFIED DEVELOPMENT ORDINANCE.
- OVERALL, THERE ARE 104 TREES IDENTIFIED ON THE SUBJECT PROPERTY THAT WERE 8" IN DIAMETER OR GREATER. THESE TREES ARE LISTED ON PAGES 6-10 IN THE REPORT.
- OF THE TREES LISTED THAT WERE 8" IN DIAMETER OR GREATER, 94 ARE LOBLOLLY PINES AND 2 ARE ASH, BOTH OF WHICH ARE NOT ON THE PROTECTED SPECIES LIST.
- THE TREES LISTED BELOW FROM THE REPORT ARE MOSTLY DAMAGED OR IN POOR HEALTH, HOWEVER, THEY MAY REQUIRE MITIGATION PER THE CALCULATIONS BELOW:

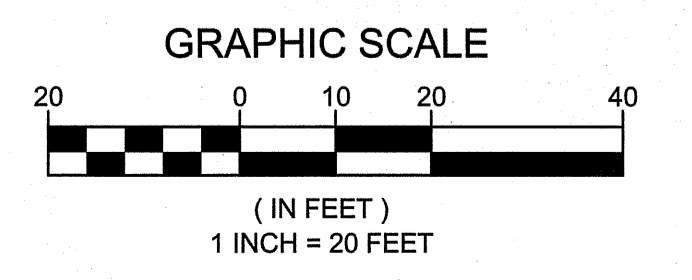
TREE #	DBH	SPECIES	SUM DBH
55	12"	RED CEDAR	12
58	9"x16"	WILLOW OAK	15
60	10"	YELLOW POPLAR	10
73	6"x8"x2"	WILLOW OAK	16
96	8"	WILLOW OAK	8
TOTAL DBH =			61

REPLACEMENT TREE DIAMETER REQUIRED = DBH (61) x RATE (0.33) = 20 DBH
NEW TREE DIAMETER PROVIDED = 52 DBH
THEREFORE, THE TREE MITIGATION REQUIREMENTS OF THE TOWN OF CHAPIN'S UDO ARE BEING EXCEEDED.

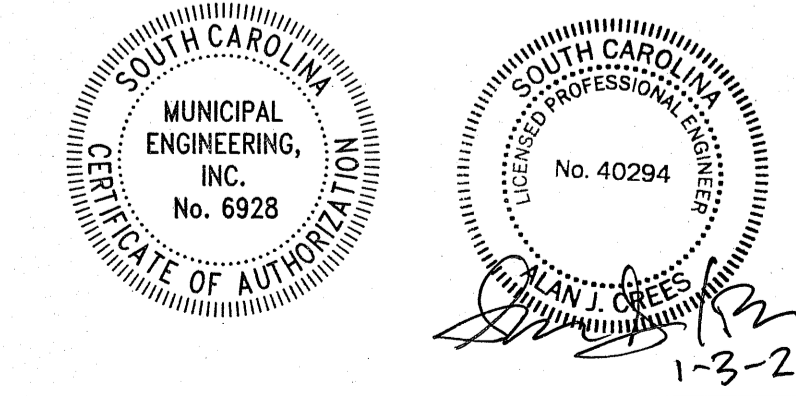
MAD BUCK BEND STREET BUFFER
(298 LF - 10' TYPE B BUFFER)

REQUIRED CANOPY TREES:
298 LF x .015 TREES/LF = 5 TREES

REQUIRED PLANTING AREA:
298 LF X 30% = 89 LF



John J. Stroke
D.B. 20971, Pg. 4056
P.B. 2193, Pg. 0159
PIN: 000700-03-002
Zoning: Interstate Commercial



PLAN SET FOR TOWN OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
68 SHIPWASH DRIVE, GARNER, NC 27529 - PHONE: 919-772-5393
820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
LICENSE NUMBER: F-0812 & C-586



WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA

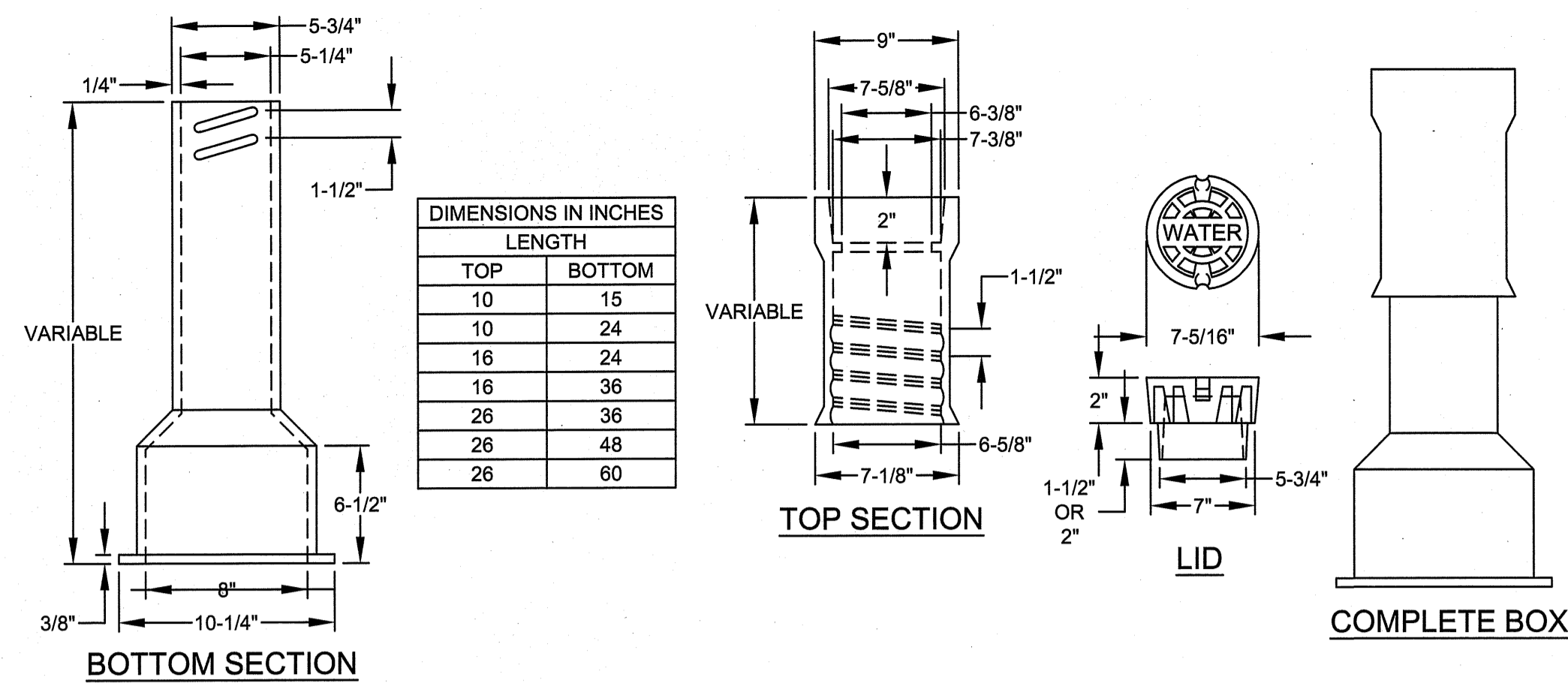
LANDSCAPE PLAN

NO.	DATE	BY	DESCRIPTION

SCALE: AS SHOWN
DATE: 1-3-25
DRWN. BY: EGT
CHKD. BY: AJC

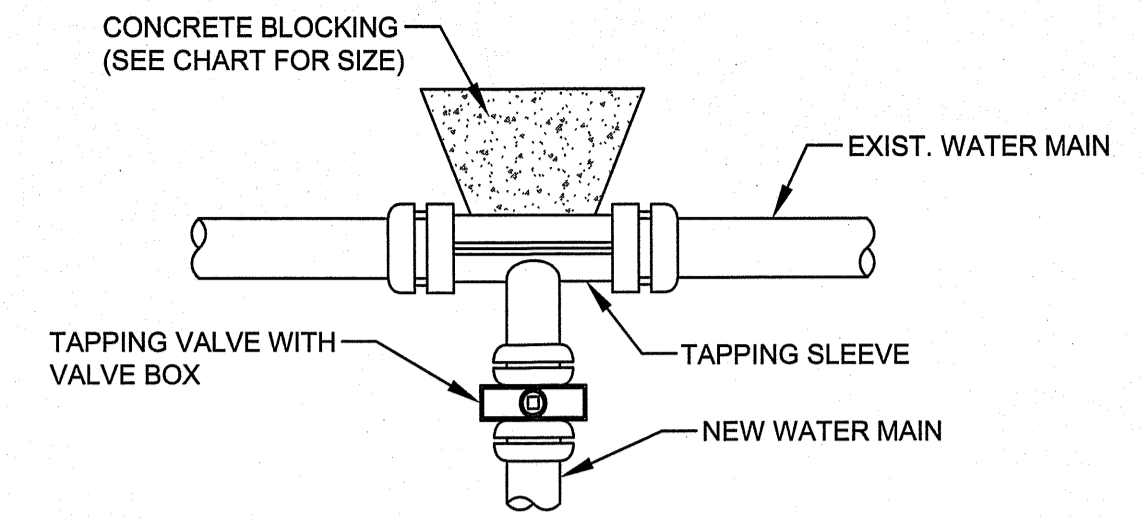
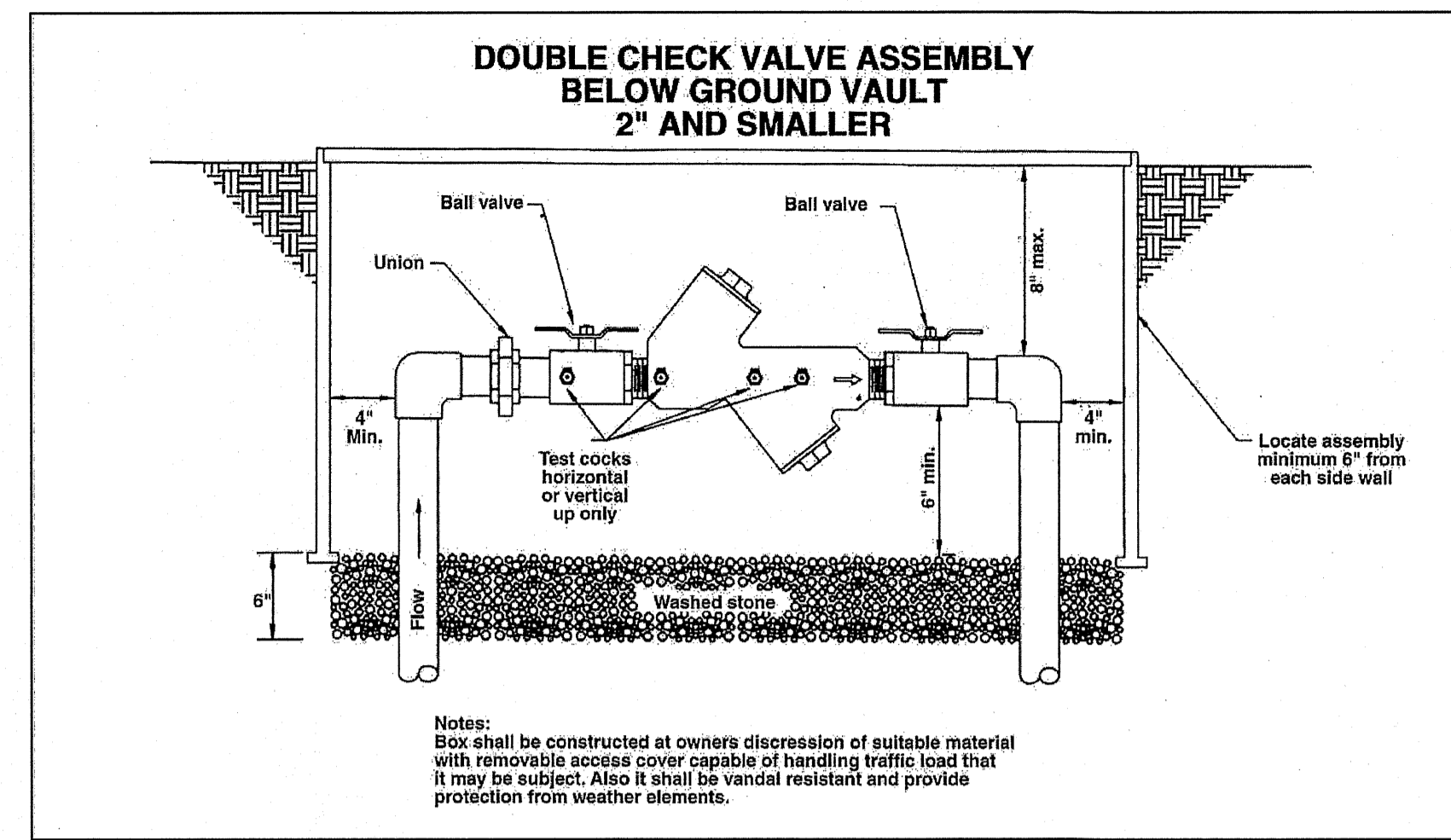
PROJECT NUMBER: B24052
DRAWING NO.: C-5
SHEET NO.: 5 OF 10

John J. Stroke
D.B. 20971, Pg. 4056
P.B. 2193, Pg. 0159
PIN: 000700-03-002
Zoning: Interstate Commercial



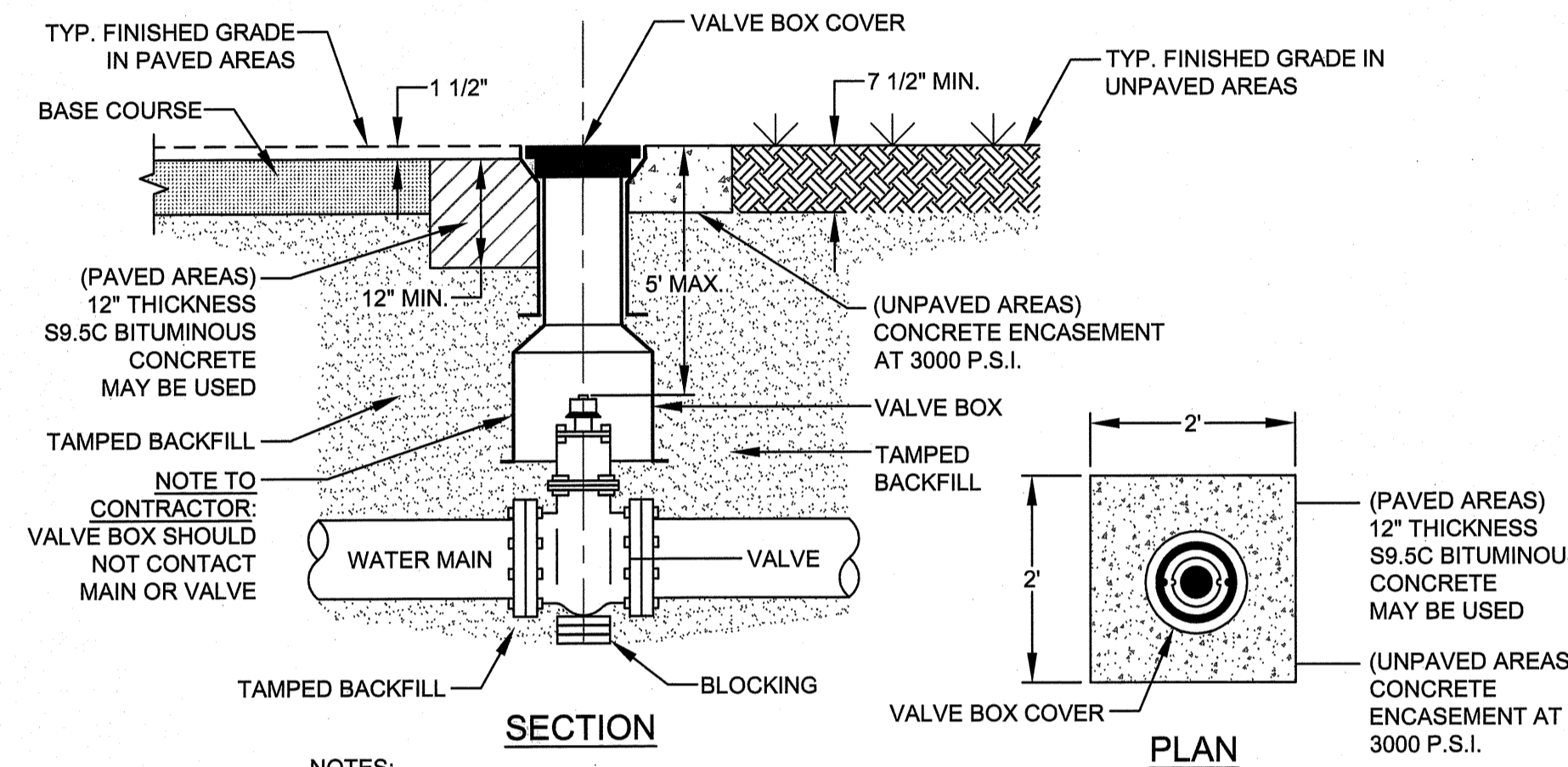
STANDARD VALVE BOX COMPONENTS

NOT TO SCALE



TAPPING SLEEVE & VALVE ASSEMBLY

NOT TO SCALE

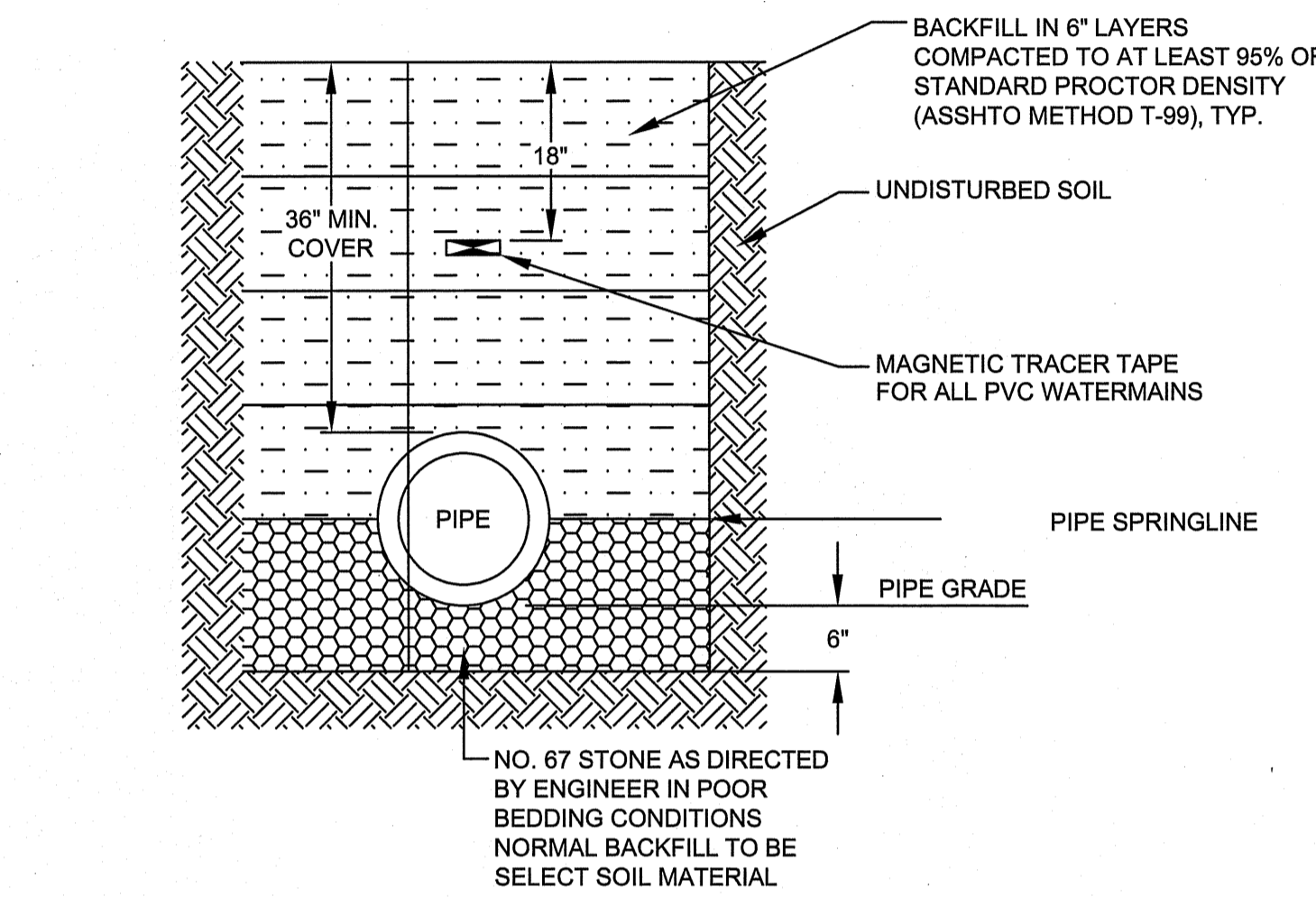


NOTES:

1. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5" FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

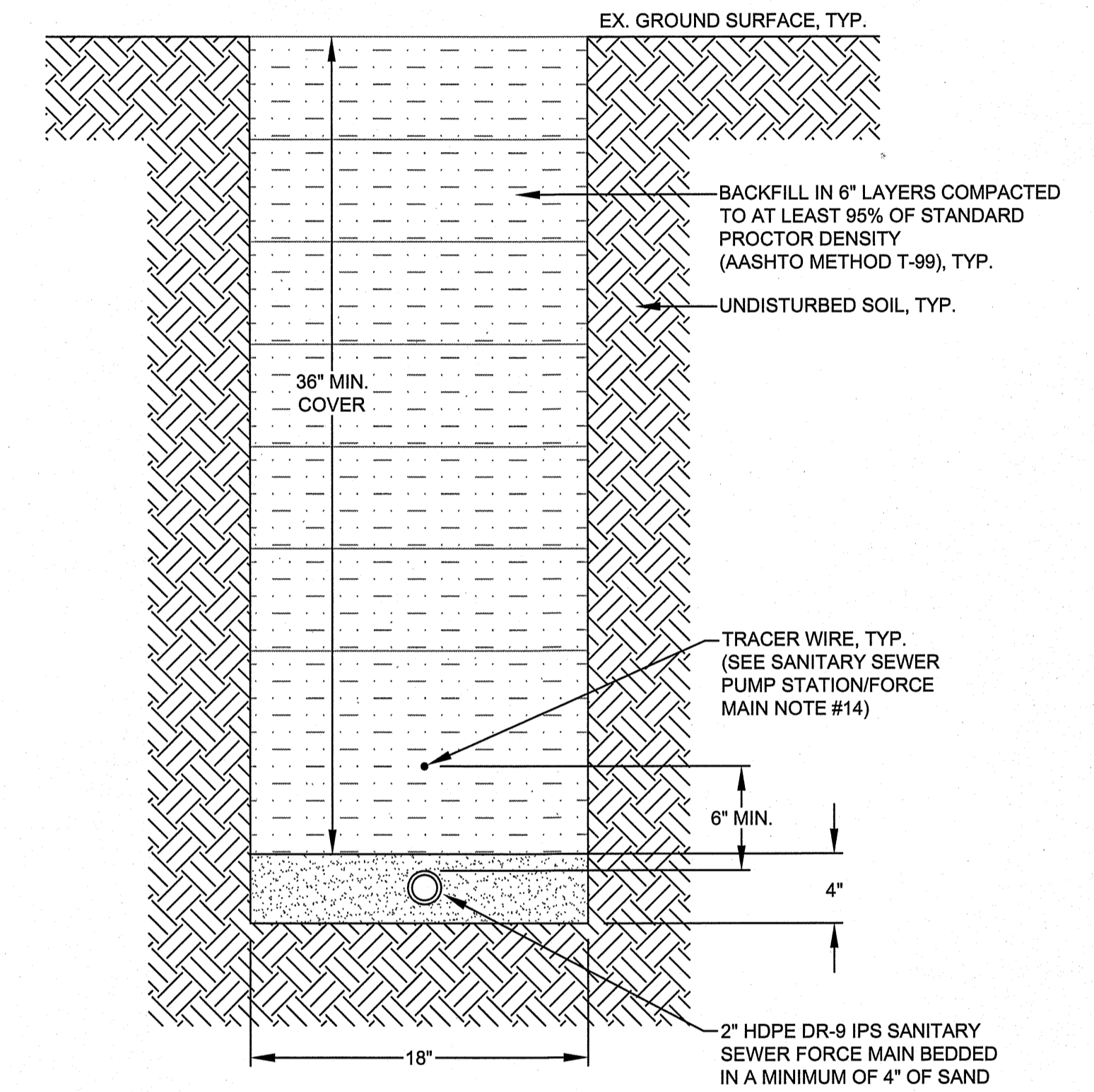
STANDARD VALVE BOX INSTALLATION

NOT TO SCALE



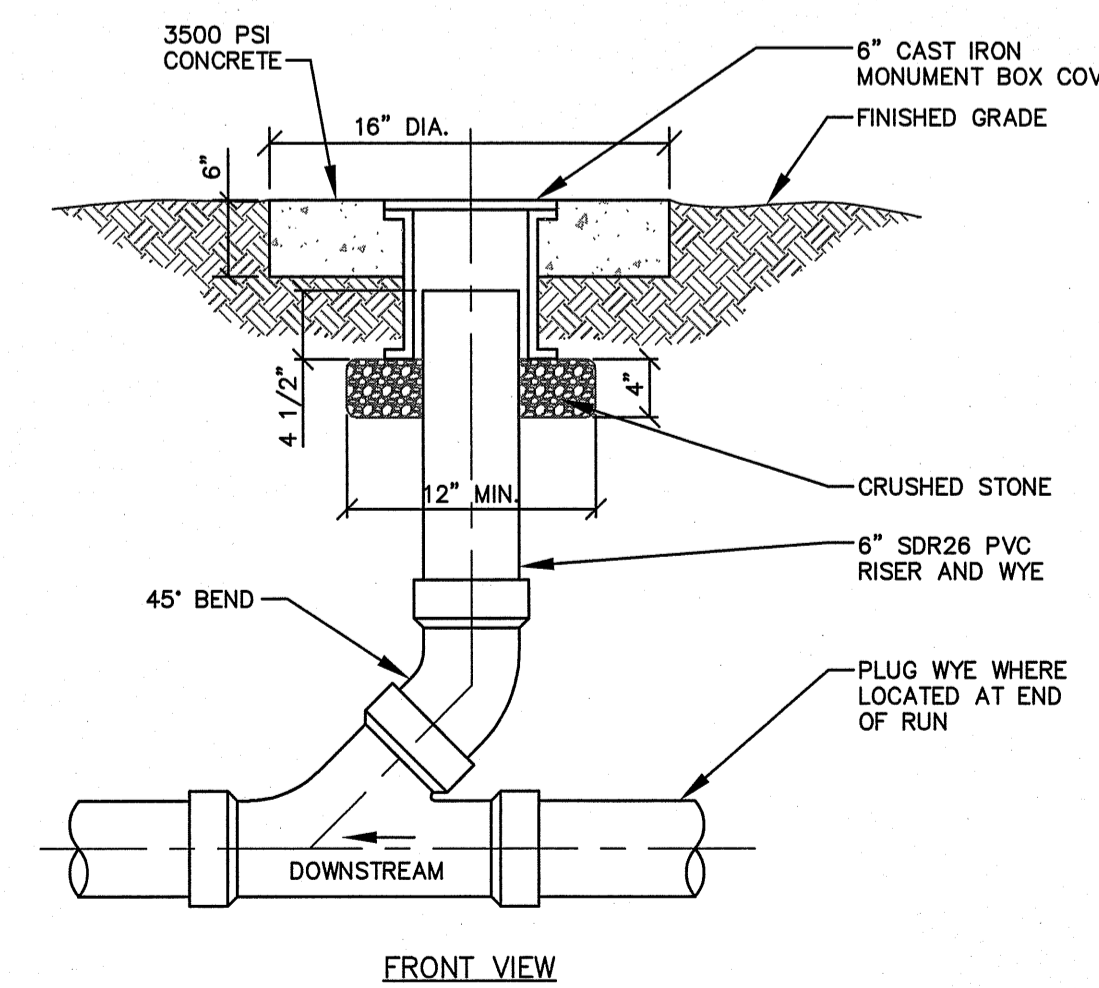
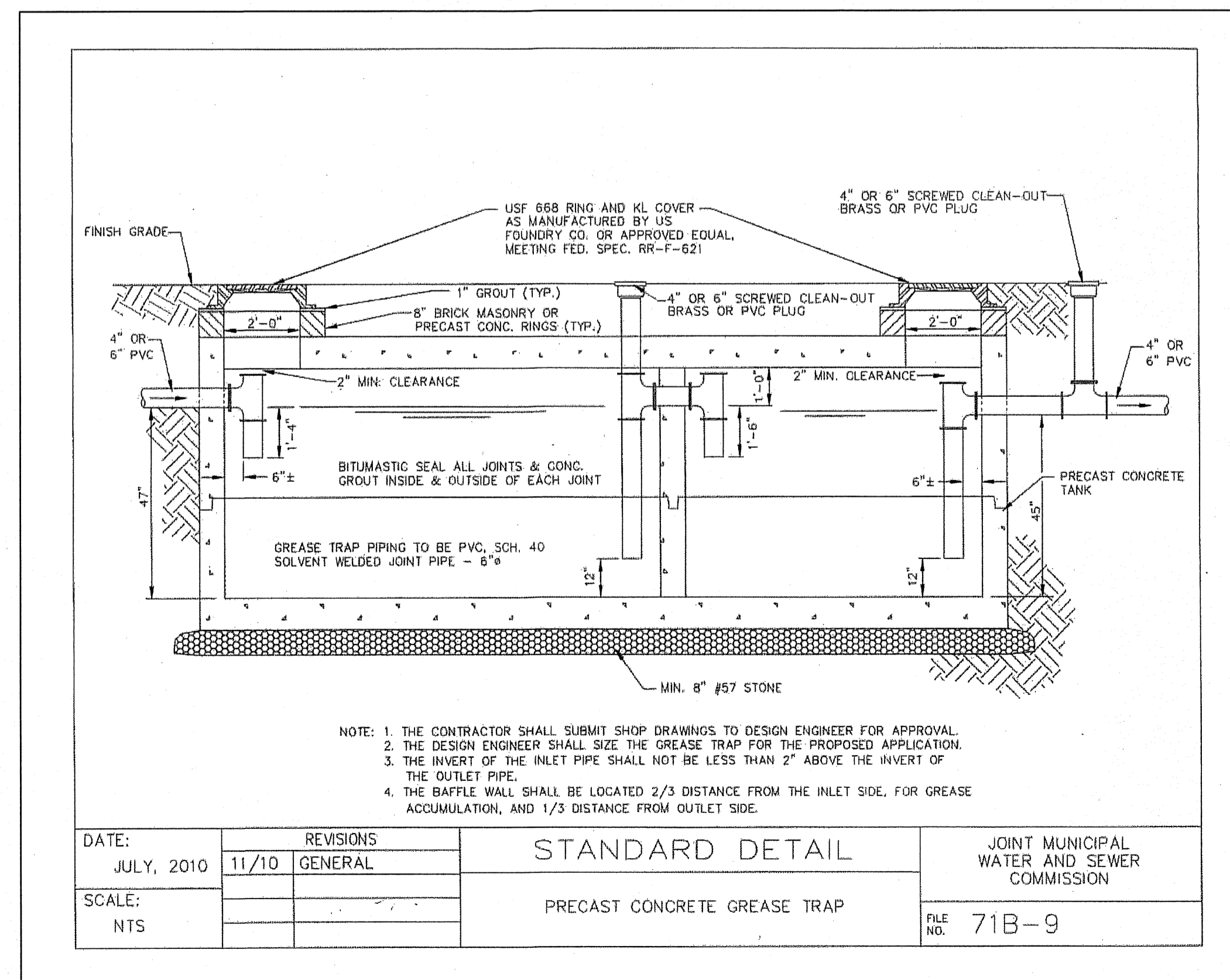
TYPICAL BEDDING FOR PRESSURE WATERMAIN & SERVICES

NOT TO SCALE



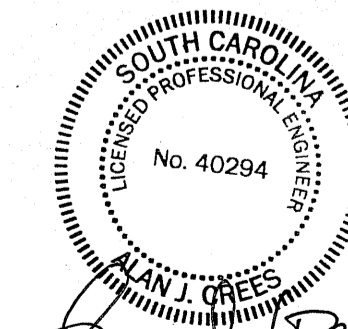
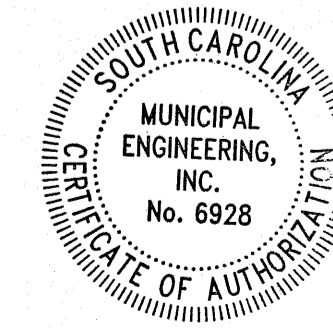
TYPICAL BEDDING FOR SANITARY SEWER SERVICE FORCE MAIN

NOT TO SCALE



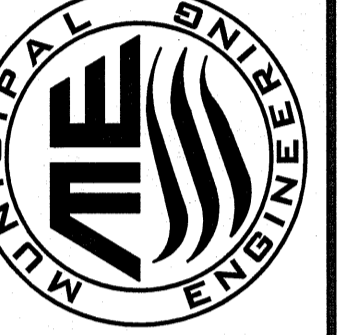
SEWER CLEANOUT DETAIL

NO SCALE



PLAN SET FOR TOWN OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
68 SHIPWASH DRIVE, GARNER, NC 27529 · PHONE: 919-772-5393
820-B STATE FARM ROAD, BOONE, NC 28607 · PHONE: 828-262-1767
LICENSE NUMBER: F-0812 & C-586

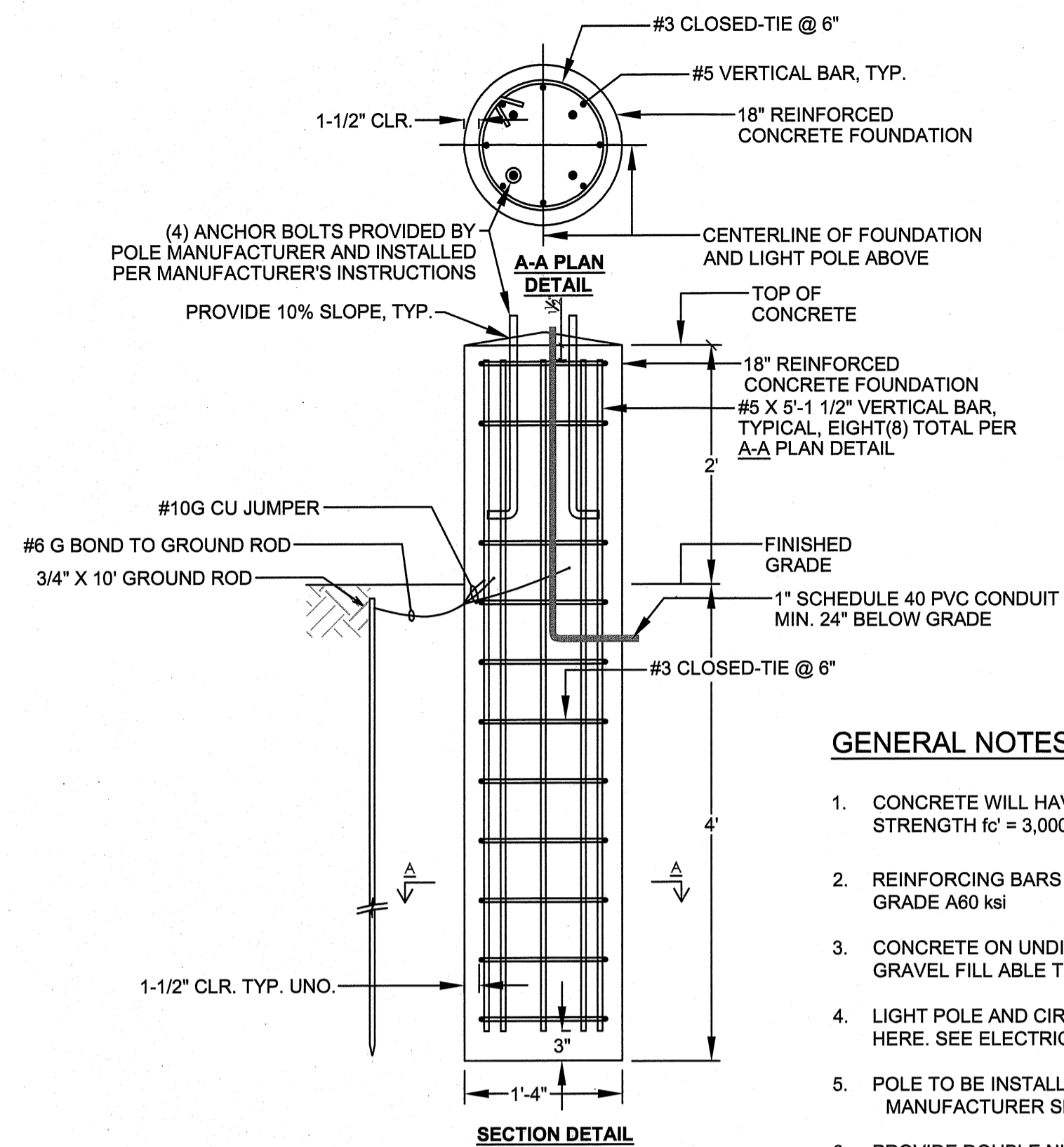


WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA

DATE	REV.	DESCRIPTION

WATER & SEWER DETAILS SHEET

SCALE: AS SHOWN
DATE: 1-3-25
DRWN. BY: EGT
CHKD. BY: AJC
PROJECT NUMBER: B24052
DRAWING NO. C-6 SHEET NO. 6 OF 10

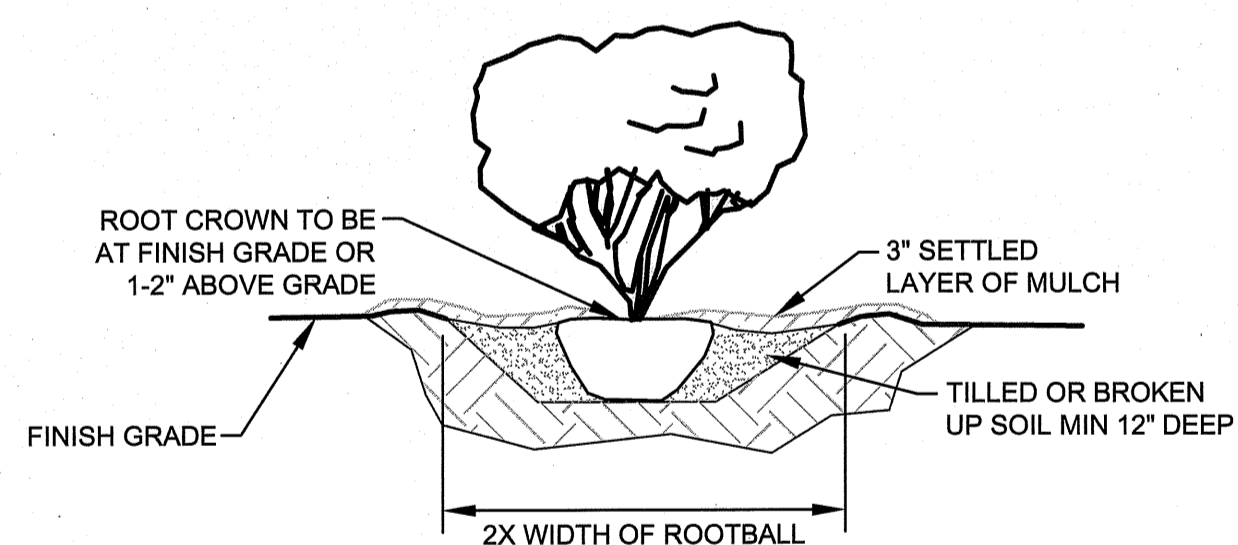
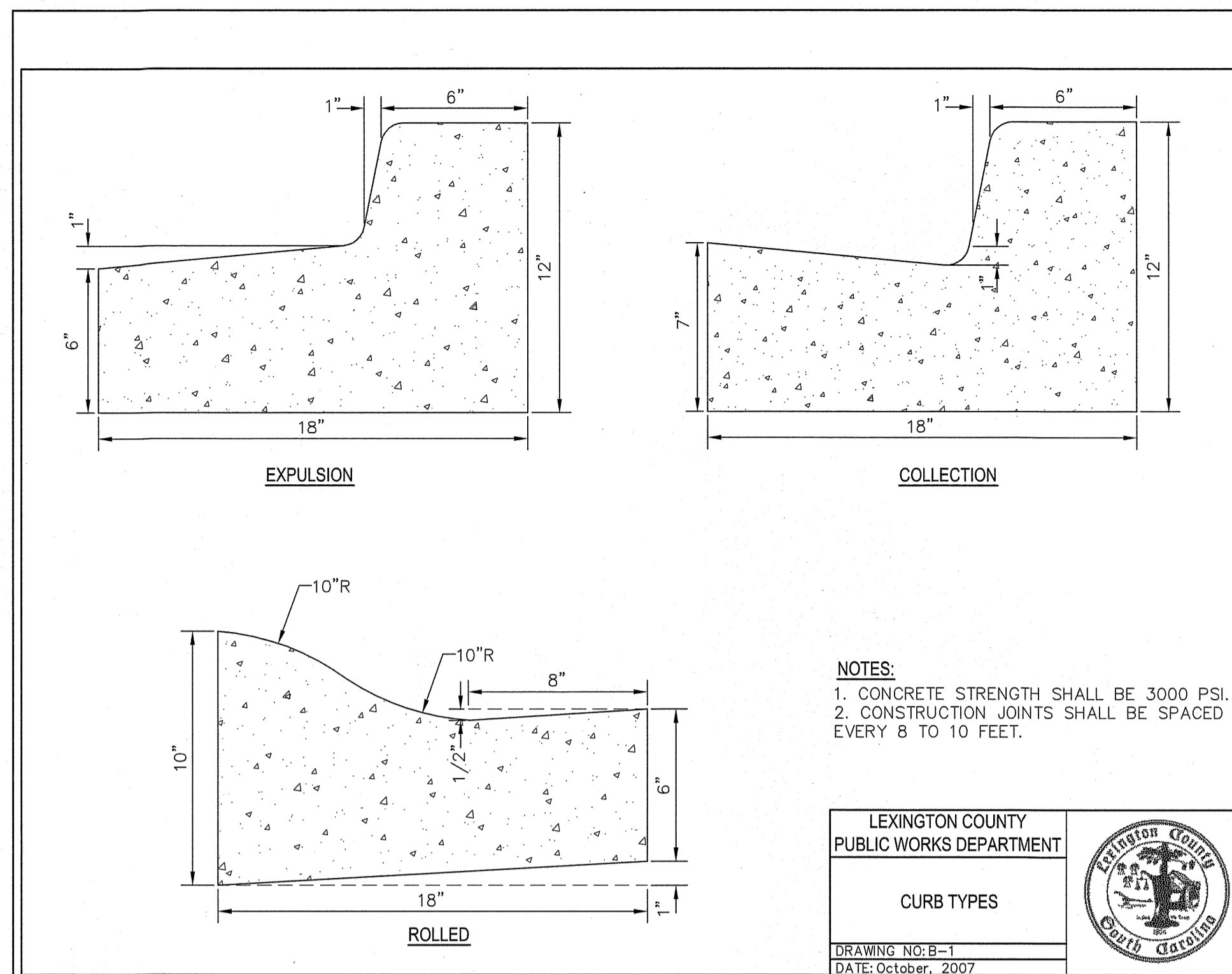


24" LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

GENERAL NOTES

1. CONCRETE WILL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH $f'_c = 3,000$ psi
2. REINFORCING BARS WILL BE ASTM A615 BILLET STEEL, GRADE A60 ksi
3. CONCRETE ON UNDISTURBED SOIL OR COMPACTED GRAVEL FILL ABLE TO SUPPORT 1,500 PSF.
4. LIGHT POLE AND CIRCUIT CONDUITS ARE NOT SHOWN HERE. SEE ELECTRICAL
5. POLE TO BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER SPECIFICATIONS.
6. PROVIDE DOUBLE NUTS & WASHERS AS PER POLE MANUFACTURER GUIDELINES.
7. PROVIDE AIR GAP AS PER MANUFACTURER GUIDELINES.

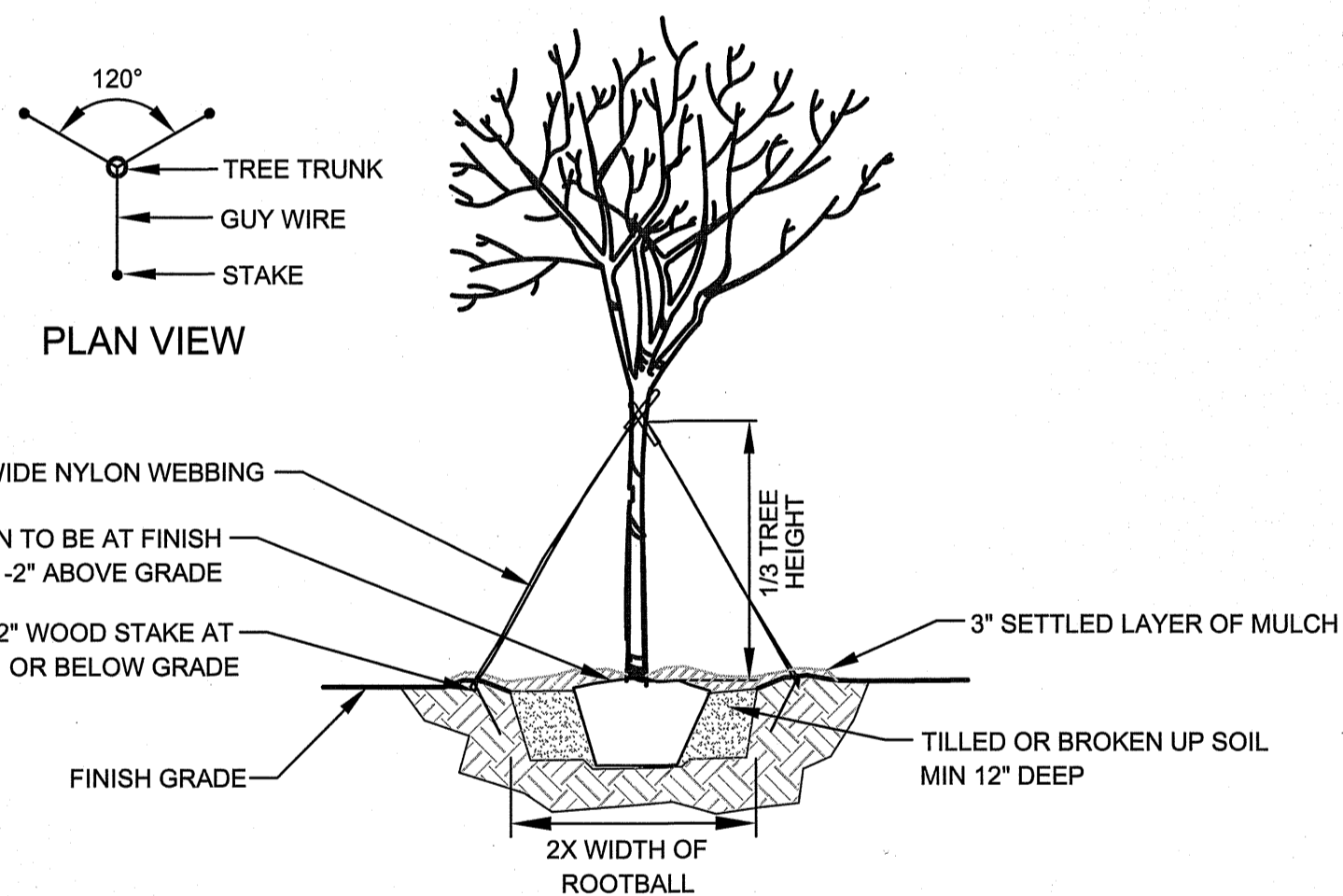


SHRUB PLANTING NOTES:

1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE IF THE SOIL IS PRONE TO SETTLING.
4. IF CONTAINER GROWN PLANT, GENTLY SLIDE PLANT OUT OF CONTAINER. DISTURB THE ROOTS.
5. IF B&B PLANT, REMOVE BURLAP FROM AT LEAST THE TOP 12 INCHES OF THE ROOTBALL, WITHOUT DISTURBING THE ROOTBALL. REMOVE ALL CORD FROM THE TRUNK. REMOVE BURLAP AND WIRE BASKET (IF PRESENT) FROM THE ROOT BALL.
6. BACK FILL THE PLANTING HOLE WITH EXCAVATED NATIVE SOIL, BROKEN UP OR TILLED. WATER TO REMOVE AIR POCKETS.
7. PLACE SHREDDED HARDWOOD MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 3 INCHES.

SHRUB PLANTING DETAIL

NOT TO SCALE

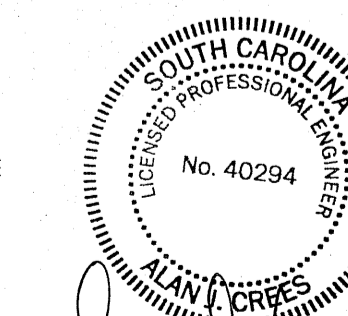
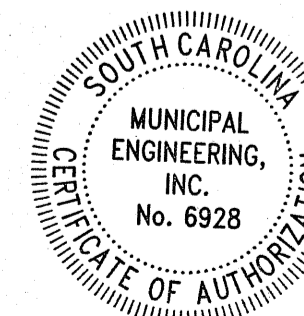


TREE PLANTING NOTES:

1. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.
2. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
3. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
4. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
5. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/3 OF THE ROOTBALL.
6. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. AMEND THE SURFACE WITH MULCH.
7. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.
8. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.
9. APPLY 3" (SETTLED) DEPTH OF SHREDDED HARDWOOD MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.
10. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.

TREE PLANTING DETAIL

NOT TO SCALE



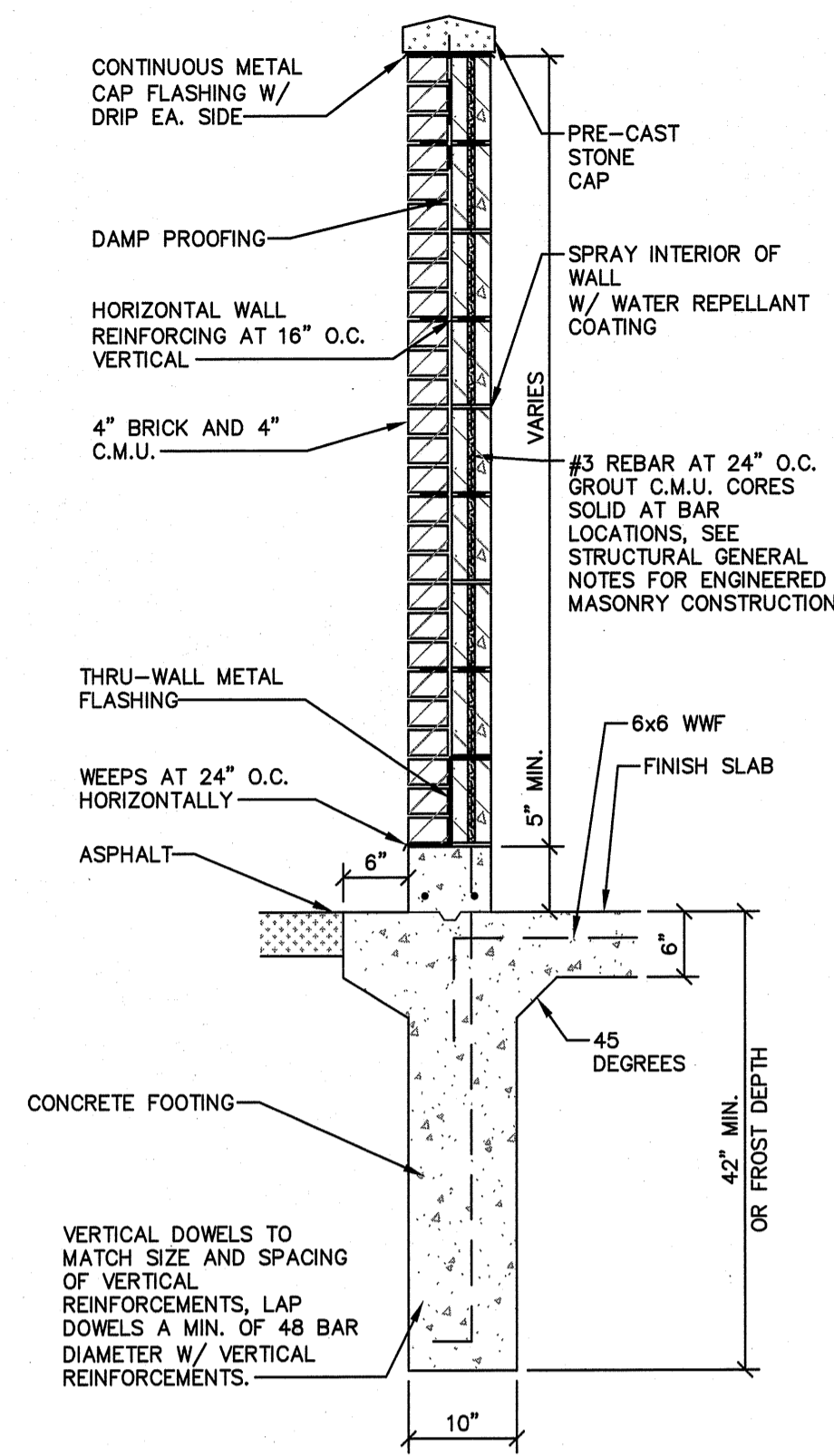
PLAN SET FOR TOWN OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
 68 SHIPWASH DRIVE, GARNER, NC 27529 - PHONE: 919-772-5393
 820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
 LICENSE NUMBER: F-0812 & C-586

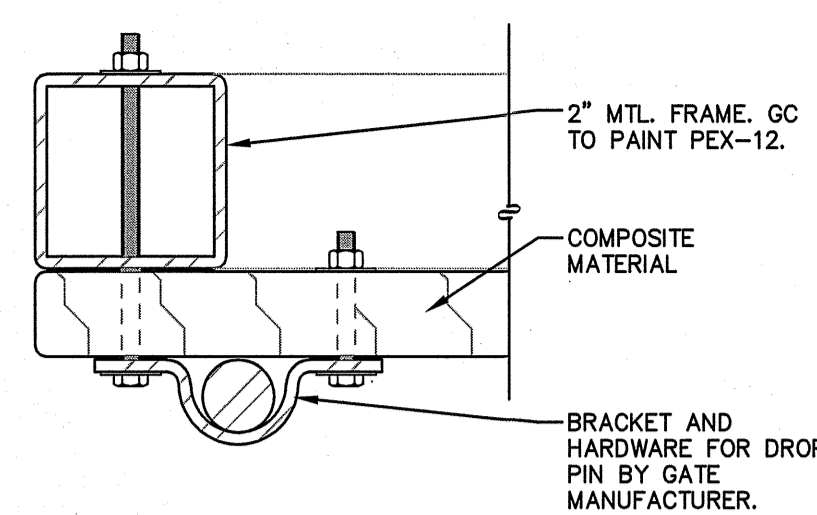
**WENDY'S RESTAURANT
 FFC LIMITED PARTNERSHIP
 COLUMBIA AVENUE
 CHAPIN, SOUTH CAROLINA**

DATE	BY	REV.	DESCRIPTION

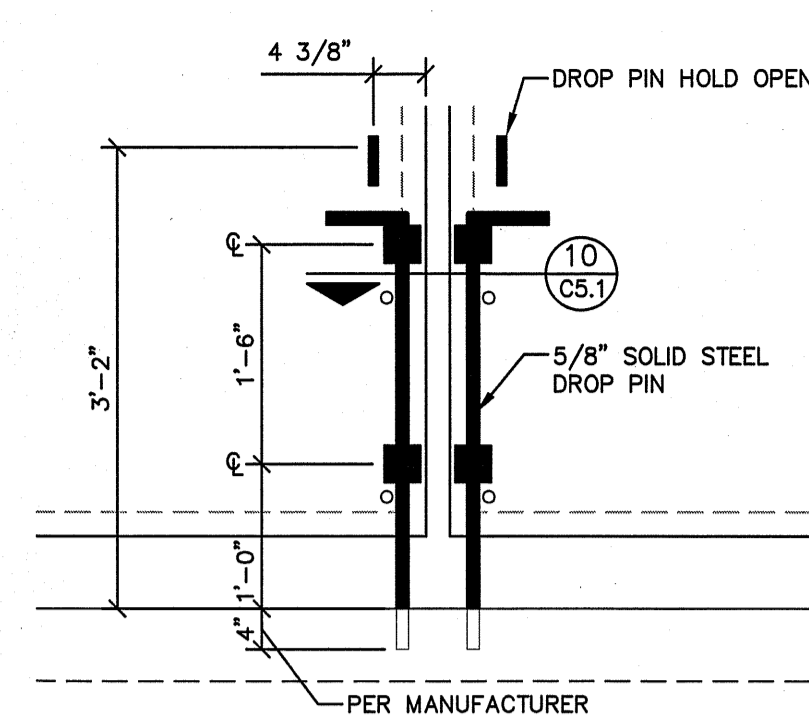
SCALE: AS SHOWN
 DATE: 1-3-25
 DRWN. BY: EGT
 CHKD. BY: A/JC
 PROJECT NUMBER: B24052
 DRAWING NO.: C-7 SHEET NO.: 7 OF 10



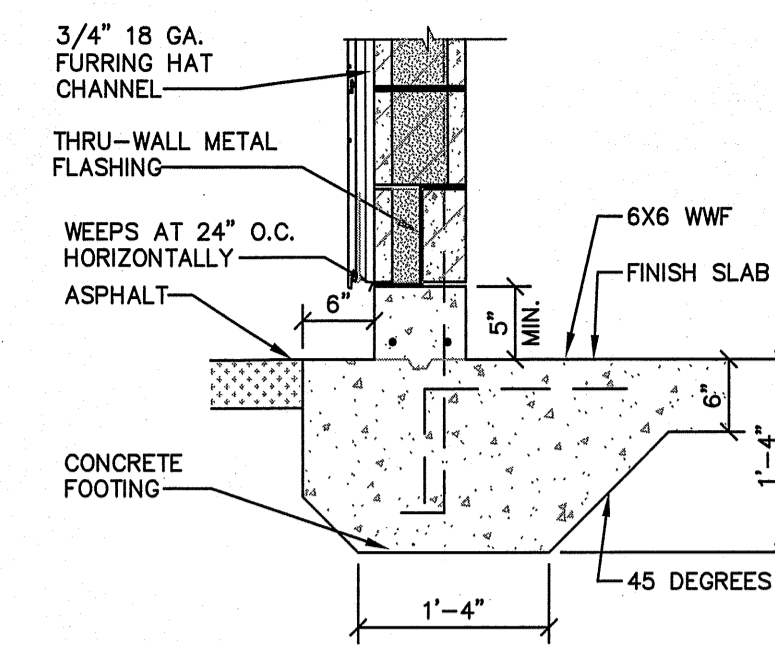
6 WALL SECTION
SCALE: 3/4" = 1'-0"



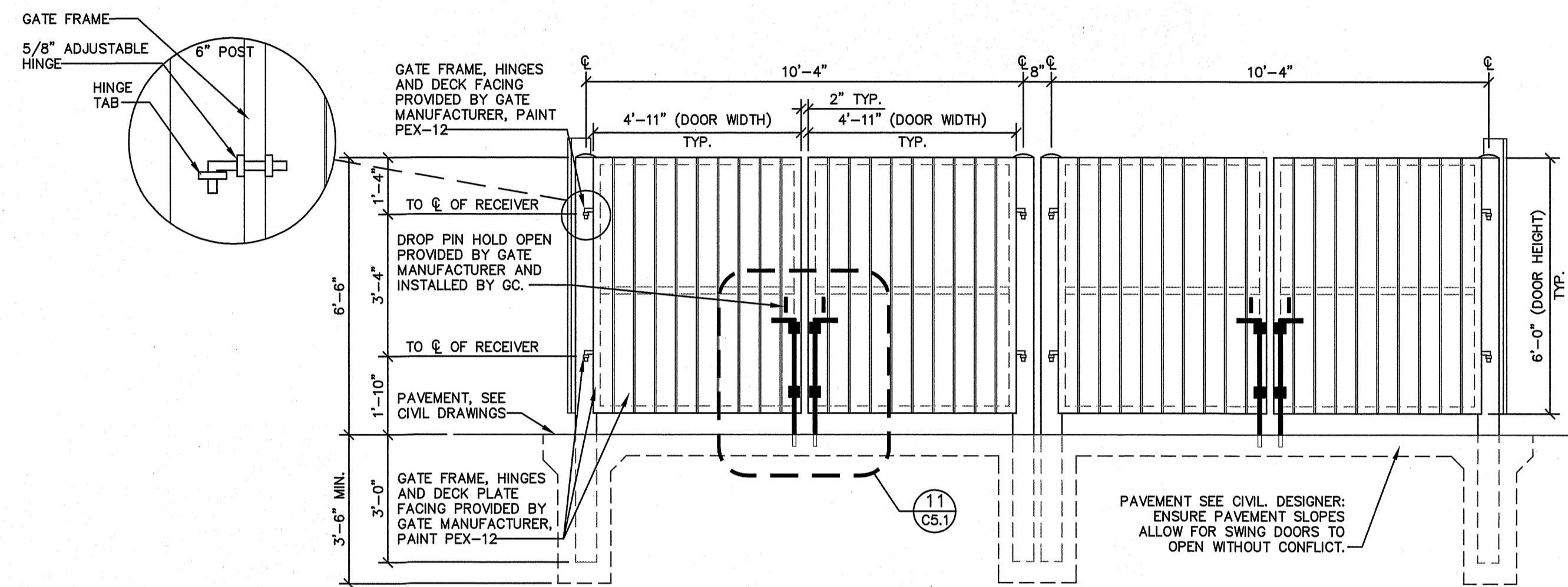
9 DROP PIN DETAIL ALT. COMPOSITE GATE
SCALE: 6" = 1'-0"



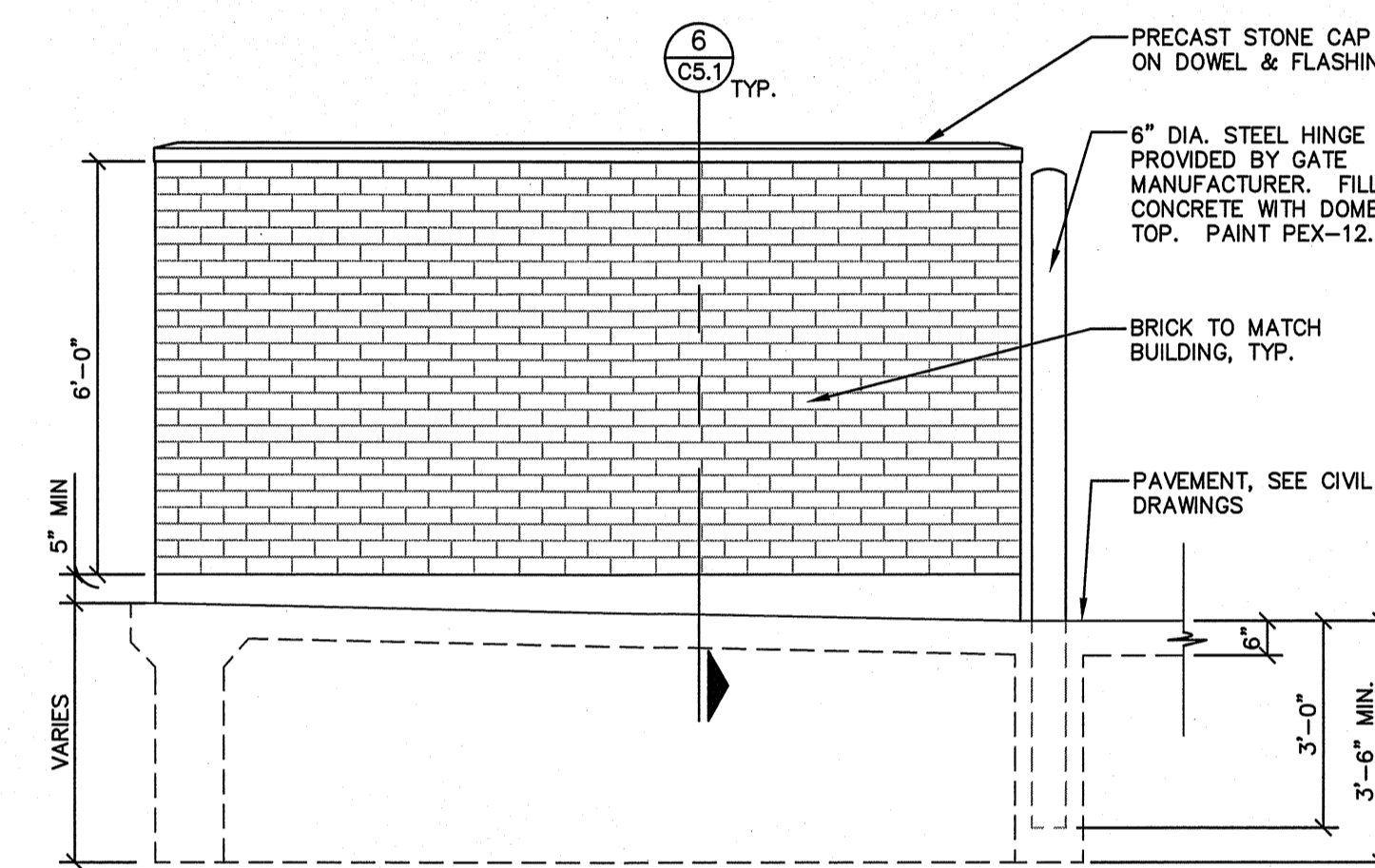
10 DROP PIN DETAIL
SCALE: 3/4" = 1'-0"



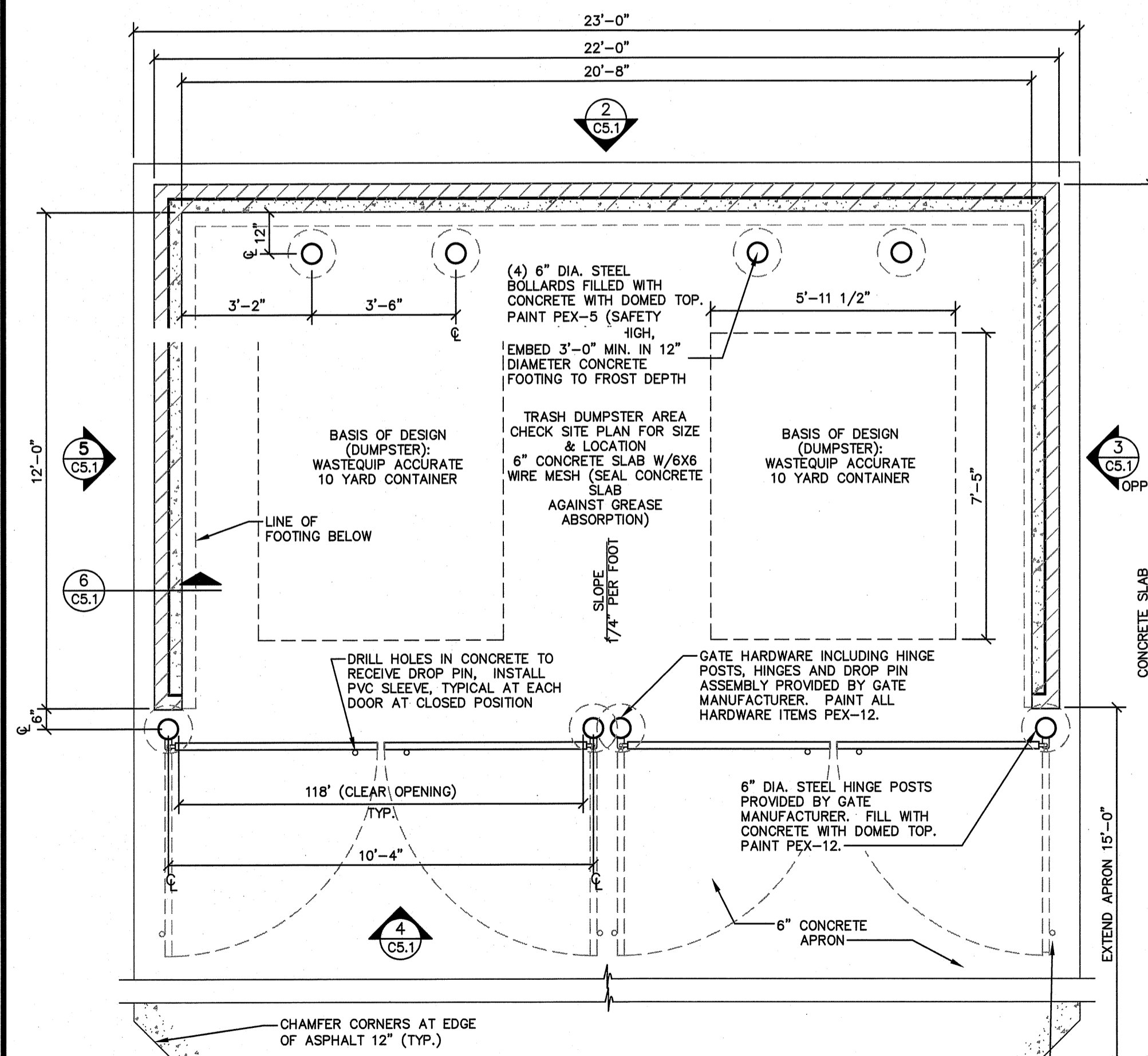
8 ALT. SOUTHERN ZONE FOOTING
SCALE: 3/4" = 1'-0"



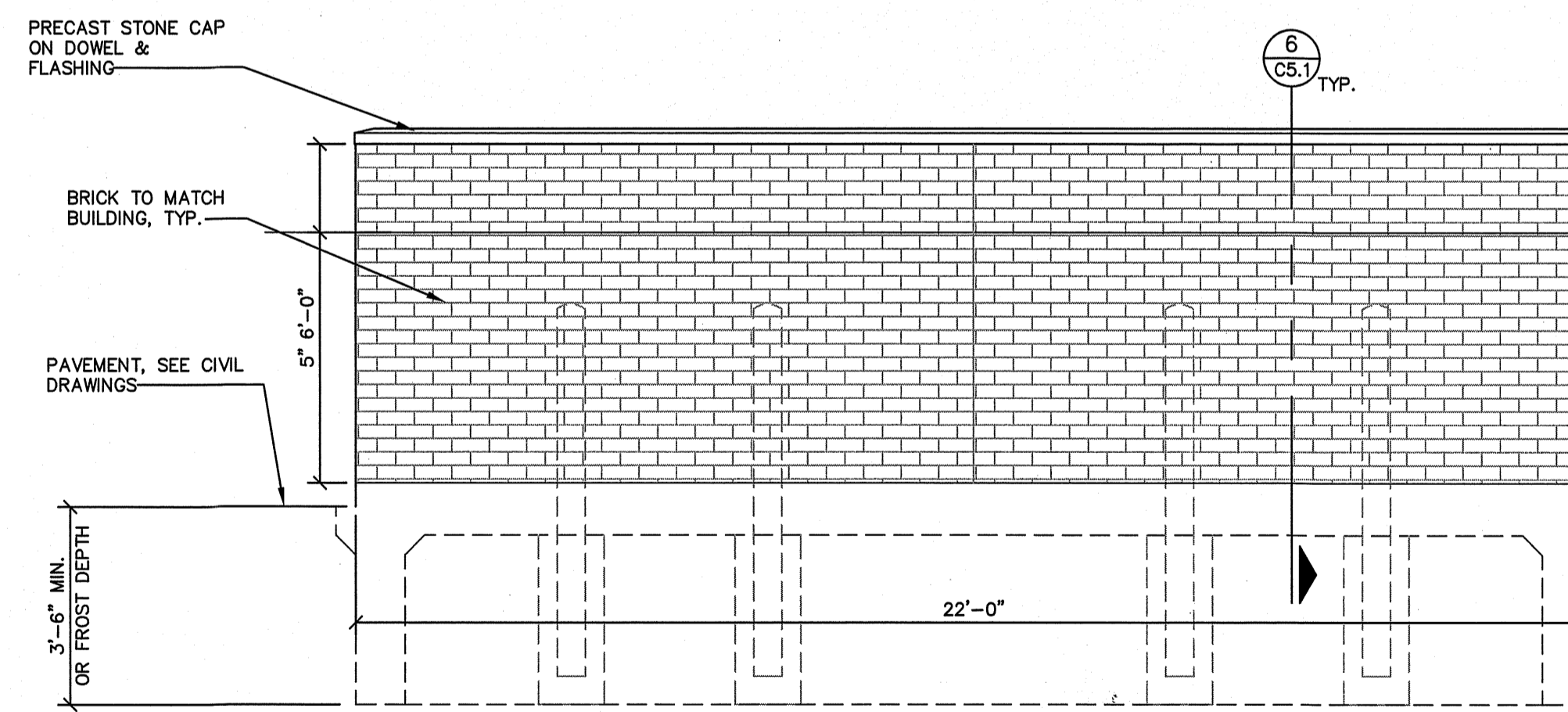
7 COMPOSITE GATE
SCALE: 3/8" = 1'-0"



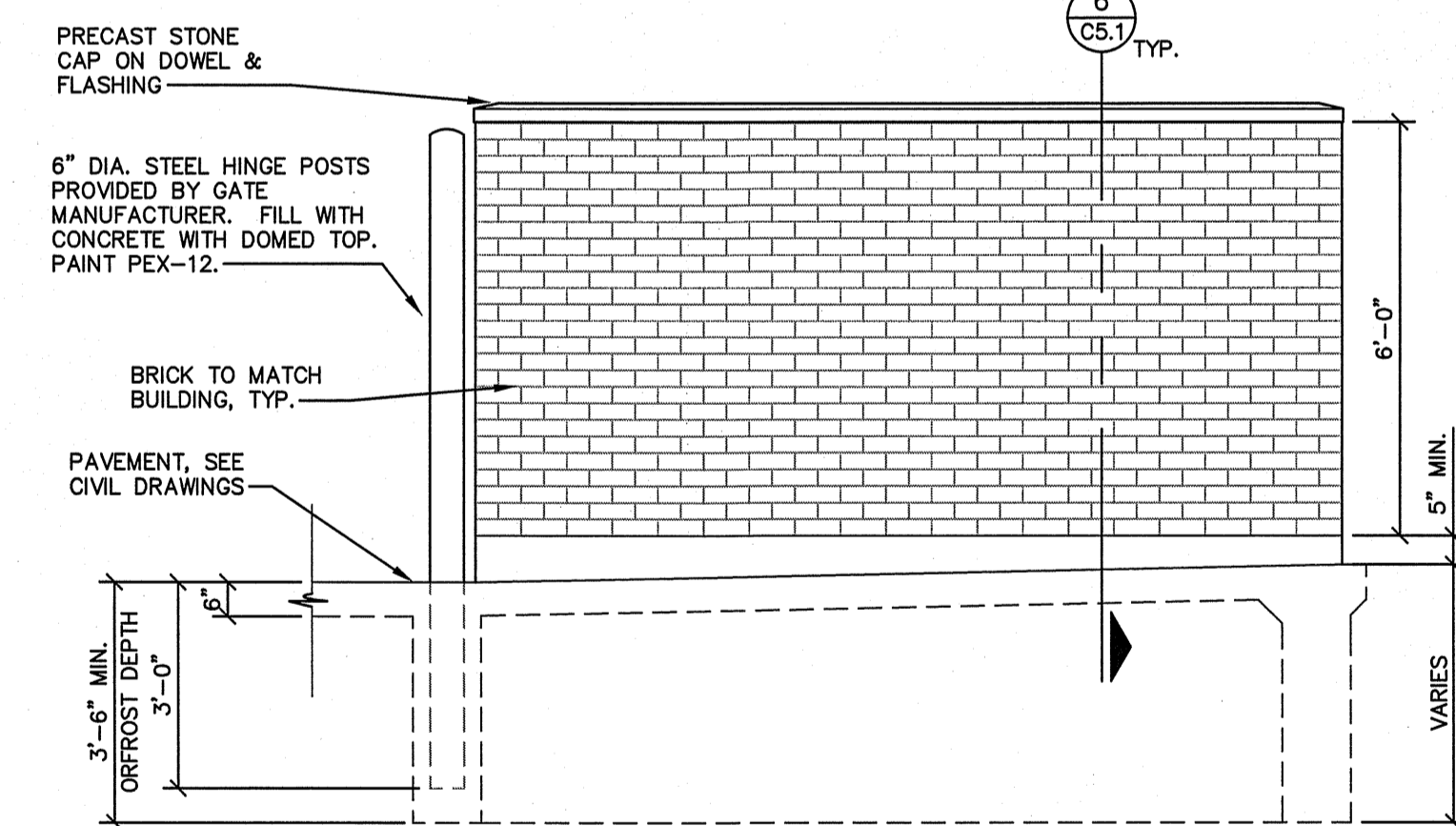
5 TRASH ENCLOSURE SIDE ELEVATION
SCALE: 3/8" = 1'-0"



1 MASONRY TRASH ENCLOSURE
SCALE: 3/8" = 1'-0"



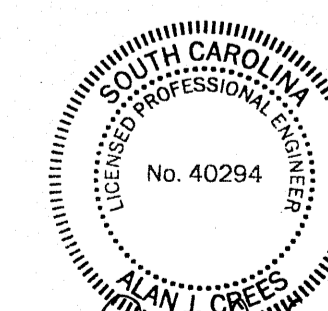
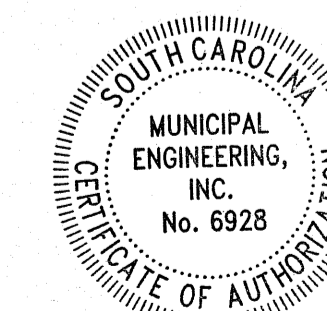
2 TRASH ENCLOSURE REAR ELEVATION
SCALE: 3/8" = 1'-0"



3 TRASH ENCLOSURE SIDE ELEVATION
SCALE: 3/8" = 1'-0"

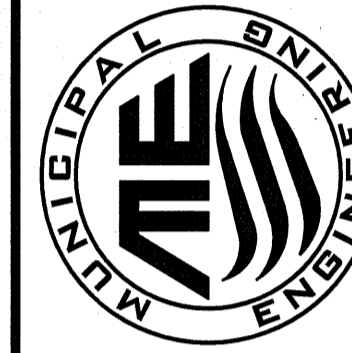
OPTIONAL CONCRETE SLAB SPEC:
A. CONCRETE SEALER: 'SCOFIELD' CEMENTONE CLEAR SEALER. APPLY PER MANUFACTURER'S RECOMMENDATIONS.
B. OPTIONAL: CONCRETE COLOR HARDENER: 'SCOFIELD' LITHOCHROME, A33 'CLASSIC GREY' APPLY PER MANUFACTURER'S RECOMMENDATIONS.

NOTE: THE ENCLOSURE SHALL BE CONSTRUCTED WITH THE SAME BRICKS AS THE ONES ON THE BUILDING FACADE.



1-3-25
PLAN SET FOR TOWN OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
68 SHIPWASH DRIVE, BARNER, NC 27529 - PHONE: 919-772-5393
820-B STATE FARM ROAD, BOONE, NC 28607 - PHONE: 828-262-1767
LICENSE NUMBER: F-0812 & C-586



WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SCALE: AS SHOWN
DATE: 1-3-25
DRWN. BY: EGT
CHKD. BY: AJC
PROJECT NUMBER: B24052
DRAWING NO.: C-8
SHEET NO.: 8 OF 10

DIVISION 32 - EXTERIOR IMPROVEMENTS

ASPHALT PAVING

- A. ALL PAVING SHALL BE INSTALLED IN AREAS AS INDICATED ON SITE PLAN. PAVEMENT DESIGN SHALL MEET SOIL CONDITIONS, OWNER'S CONSTRUCTION ENGINEER REQUIREMENTS, AND DETAILS ON SITE.
- B. SOIL CLASS:
1. POOR - CBR = 3.5 - TYPE: PLASTIC WHEN WET SUCH AS CLAY, FINE SILT OR SANDY LOAM.
 2. MEDIUM - CBR = 7.0 - TYPE: HARD SILTY-SANDS OR SAND GRAVELS CONTAINING CLAY OR FINE SILT.
 3. GOOD - CBR = 12 - TYPE: CLEAN SAND AND SAND GRAVEL FREE OF CLAY, SILT OR LOAM.
- C. MINIMUM PAVEMENT:
- | POOR SOIL | MEDIUM SOIL | GOOD SOIL |
|--|---|--|
| 6" COARSE ASPHALT
BASE BINDER (1 1/2" AGGREGATE)
PLUS 1 1/2" AGGREGATE
(MAXIMUM 1/2" AGGREGATE) | 4" COARSE ASPHALT
BASE (1 1/2" AGGREGATE)
PLUS 1 1/2" AGGREGATE
(MAXIMUM 1/2" AGGREGATE) | 3" COARSE ASPHALT
BASE MATERIAL (1 1/2" AGGREGATE)
PLUS 1 1/2" ASPHALT TOPPING
(MAXIMUM 1/2" AGGREGATE) |

CONCRETE PAVING

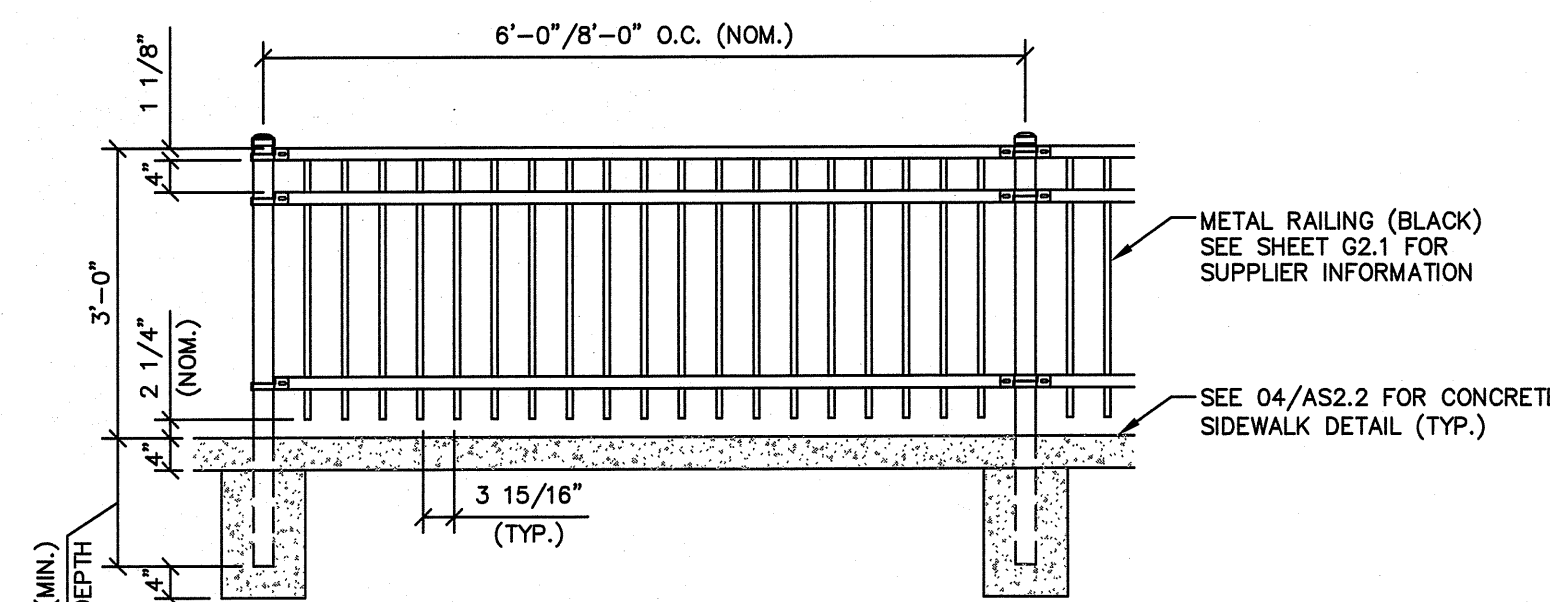
A. CONCRETE PAVING SPECIFICATIONS FOR CONCRETE PAVING REQUIRED FOR THIS SITE IS TO BE VERIFIED BY CIVIL ENGINEER.

STRIPING AND PARKING BLOCKS

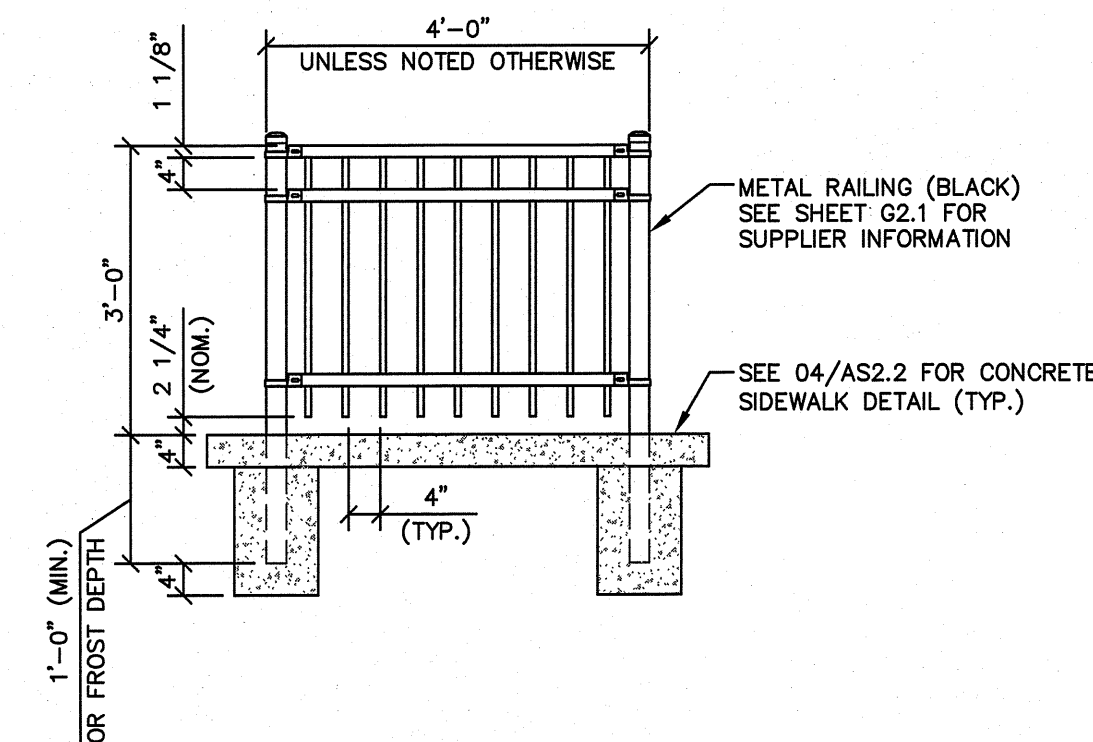
- A. STRIPING TO BE "TUF-TRAC", OSHA SAFETY YELLOW, BY SONNEBORN. (AVAILABLE THROUGH SHERWIN WILLIAMS)
- B. PARKING LOT MARKING REQUIREMENTS WILL VARY DEPENDING UPON LOCAL CITY CODES. YELLOW IS THE MOST COMMON COLOR FOR LOT STRIPING AND ESPECIALLY IMPORTANT FOR NORTHERN CLIMATES, WHERE SNOW IS PREVALENT, SINCE IT WILL PROVIDE CONTRAST FROM SNOW AND SALT LADEN SURFACES. IF CODES ALLOW, WHITE PAINT IS PERMITTED FOR PARKING SPACE STRIPING ONLY. HAZARDS SHOULD BE IDENTIFIED IN "SAFETY" YELLOW PAINT.
- C. THE FOLLOWING AREAS SHOULD BE PROPERLY IDENTIFIED:
1. VEHICLE PARKING AREA IDENTIFIED WITH THE APPROPRIATE MARKING AS REQUIRED BY LOCAL MUNICIPAL CODES.
 - a. COLOR: YELLOW OR WHITE.
 2. DIRECTIONAL TRAFFIC FLOW ARROWS PAINTED ON THE LOT SHOULD IDENTIFY THE ROUTE OF TRAVEL INTO AND OUT OF PARKING LOT FROM PUBLIC OR PRIVATE ACCESS ROADS.
 - a. COLOR: YELLOW.
 3. OUTLINE THE OUTSIDE OF THE PICK-UP WINDOW TRAFFIC LANE WITH A FOUR INCH SOLID STRIPE.
 - a. COLOR: YELLOW.
 4. ALL CURBS THAT EXTEND FROM THE PARKING LOT ENTRANCE TO PUBLIC-PRIVATE ROADWAY SHOULD BE PAINTED.
 - a. COLOR: YELLOW.
 5. SPEED BUMPS SHOULD BE IDENTIFIED WITH STRIPING. IT IS NOT NECESSARY TO PAINT THE ENTIRE AREA.
 - a. COLOR: YELLOW.
 6. PARKING STOPS OR BLOCKS LOCATED NEXT TO THE BUILDING OR IN THE MIDDLE OF THE PARKING LOT SHOULD BE YELLOW RECYCLED PLASTIC. (SEE PARKING BLOCKS NOTE BELOW)
 7. SIDEWALK CURBING DIRECTLY IN THE TRAVEL PATH OF THE BUILDING ENTRANCES OR EXITS SHOULD BE IDENTIFIED WITH A TWO-INCH STRIPE ON THE TOP EDGE OF THE CURVE FOR A LENGTH OF THREE FEET.
 - a. COLOR: YELLOW.
 8. IF SITE CONDITIONS WARRANT, STEPS SHOULD BE IDENTIFIED WITH A TWO INCH LINE PAINTED ON THE TOP AND FRONT EDGE OF EACH STEP.
 - a. COLOR: YELLOW.
 9. IF THE SITE CONDITIONS WARRANT, CROSSWALKS ACROSS THE DRIVE-THRU LANE FOR ENTRANCES/EXITS THAT ARE PERPENDICULAR TO THE DRIVE-THRU TRAFFIC PATTERN SHOULD BE IDENTIFIED WITH DIAGONAL STRIPES.
 - a. COLOR: WHITE OR YELLOW TO MATCH STRIPING.
 10. POSTS, POLES AND THEIR SUPPORTS OR GUIDE WIRES THAT MAY BE EXPOSED TO VEHICLE TRAFFIC SHOULD BE PAINTED AT LEAST SIXTY INCHES IN HEIGHT FROM THE BASE.
 - a. COLOR: YELLOW.
 11. STENCIL "PICK-UP WINDOW" LANE BEHIND DIRECTIONAL ARROW.
 - a. COLOR: WHITE OR YELLOW TO MATCH STRIPING.
 12. CURBS THAT REPRESENTS A POSSIBLE HAZARD TO VEHICLES SHOULD BE IDENTIFIED BY PAINTING A TWO-INCH LINE ON THE TOP AND SIDE OF THE CURB.
 - a. COLOR: YELLOW.
 13. ACCESSIBLE PARKING SHOULD BE IDENTIFIED WITH STRIP AND STENCILING PER LOCAL CODES. AT LEAST ONE VAN ACCESSIBLE SPACE IS TO BE PROVIDED. ACCESSIBLE PARKING SIGNAGE IS PROVIDED THAT IS AT LEAST 60" ABOVE GRADE.
 14. HANDICAP SIDEWALK RAMPS SHOULD HAVE THE OUTSIDE CURBING THAT IS CHANGING IN ELEVATION IDENTIFIED WITH A TWO INCH LINE PAINTED ON THE TOP AND SIDE EDGE OF CURB FOR THE FIRST THREE FEET OF INCLINE STARTING FROM THE LOWER SURFACE LEVEL.
 - a. COLOR: YELLOW.
- D. PARKING BLOCKS: 100% RECYCLED PLASTIC PARKING BLOCKS, YELLOW IN COLOR. PARKING BLOCKS SHALL BE MINIMUM OF 8'-0" IN LENGTH AND A MAXIMUM OF 5" IN HEIGHT SPECIFY FOR USE ON CONCRETE OR ASPHALT FOR CORRECT HARDWARE. BLOCKS SHALL BE PLACED AS SHOWN ON SITE PLAN.

CURBS

A. CONCRETE CURBS SHALL BE FULL 6" X 18" FORMED CURBS WITH EXPANSION JOINTS OR SAW CUTS NOT MORE THAN 20'-0" APART. FREESTANDING OR INTEGRAL CURBS SHALL BE REINFORCED WITH AT LEAST ONE #4 REINFORCING ROD CONTINUOUS.



13 PATIO RAILING DETAIL
NO SCALE



10 SAFETY RAILING DETAIL
NO SCALE

LANDSCAPING

- A. LANDSCAPE BIDDER SHALL SUBMIT A WRITTEN PROPOSAL AND LANDSCAPE PLAN TO THE OWNER FOR APPROVAL. PROPOSAL SHALL INDICATE SIZE AND NUMBER OF PLANTS AND EXACT AREA TO BE SODDED. PROPOSAL TO SHOW UNIT PRICES FOR EACH TREE AND SHRUB. PROVIDE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE SEEDING, SODDING, AND LANDSCAPE PLANTING, EARTHWORK AND EDGING AS SHOWN ON PROPOSAL.
- B. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TOPSOIL TO GRADE AND FOR ALL ROUGH GRADING. NO PAYMENTS IN EXCESS OF CONTRACT SHALL BE MADE UNLESS APPROVED BY THE OWNER IN WRITING. TOTAL PROPOSAL SHALL INCLUDE WORK INCLUDING TAXES WHERE APPLICABLE.
- C. PLANT GUARANTEE AND REPLACEMENT: PLANTS AND SOD AREAS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF INSTALLATION. PLANTS NOT IN SATISFACTORY VIGOR SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

DIVISION 31 - EARTHWORK

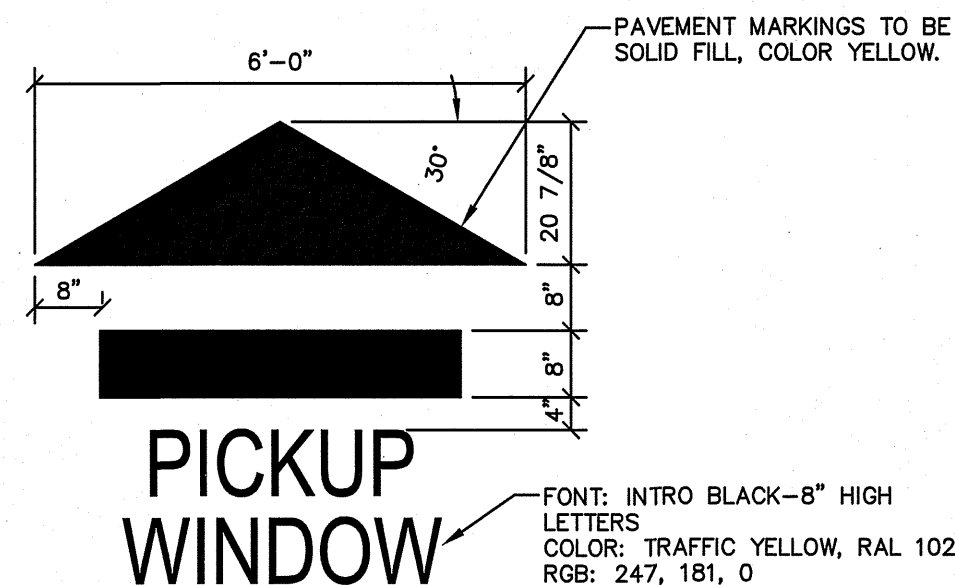
EXCAVATION, BACKFILLING, GRADING

1. REMOVE VEGETATION, REFUSE OR EXISTING STRUCTURES IN CONFINES OF BUILDING CONSTRUCTION AND PAVING AREAS PRIOR TO COMMENCEMENT OF WORK.
2. EXCAVATE AS REQUIRED TO PROVIDE SUFFICIENT WORKING ROOM FOR THE LAYING OF FOUNDATION WALLS, EXCAVATION FOR FOOTINGS TO BE DOWN TO UNDISTURBED EARTH WITH A MINIMUM DEPTH AS SHOWN ON DRAWINGS UNLESS OTHERWISE GOVERNED BY LOCAL CODES.
3. IN THE EVENT THAT ROCK IS ENCOUNTERED IN THE FOUNDATION EXCAVATION, AND IF THIS ROCK MUST BE REMOVED BY DYNAMITE OR COMPRESSOR, THE OWNER WILL REIMBURSE THE CONTRACTOR FOR THE PREDETERMINED COST OF THESE OPERATIONS.
4. BACKFILLING OF WALLS IN INTERIOR AREAS WHERE CONCRETE SLAB WILL BEAR ON GRADE SHALL BE GRITS OR BANK RUN GRAVEL, WELL COMPACTED, BROUGHT TO A SUBGRADE OF 8" BELOW FINISH FLOOR LINE.
5. BACKFILLING OF EXTERIOR FOUNDATION WALLS SHALL BE CLEAN GRAVEL WELL COMPACTED, BROUGHT TO A SUBGRADE OF 8" BELOW FINISH SIDEWALK PAVING.
6. BACKFILLING OVER UTILITIES RUNNING UNDER PAVED AREAS SHALL BE OF GRITS.
7. REMAINDER OF SITE SHALL BE GRADED TO ASSURE DRAINAGE OF SURFACE WATER FROM BUILDING.
8. REMOVE AND LEGALLY DISPOSE OF EXCESS SOILS FROM THE SITE.
9. GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, ABRUPT CHANGES IN SLOPES SHALL BE WELL-ROUNDED. THE CONTRACTOR IS RESPONSIBLE FOR POSITIVE SITE DRAINAGE.
10. SOILS TEST SHALL BE PERFORMED BY THE CONTRACTOR TO ENSURE SOIL MEET 3,000 PSF DESIGN STRENGTH. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF EXCAVATION ON ANY PART OF THE SITE REVEALS FILL OR GROUND WATER.
11. SITE FILL SHOULD BE NON-ORGANIC SOILS COMPACTED IN 6" LIFTS TO A MINIMUM 98% STANDARD PROCTOR DENSITY.

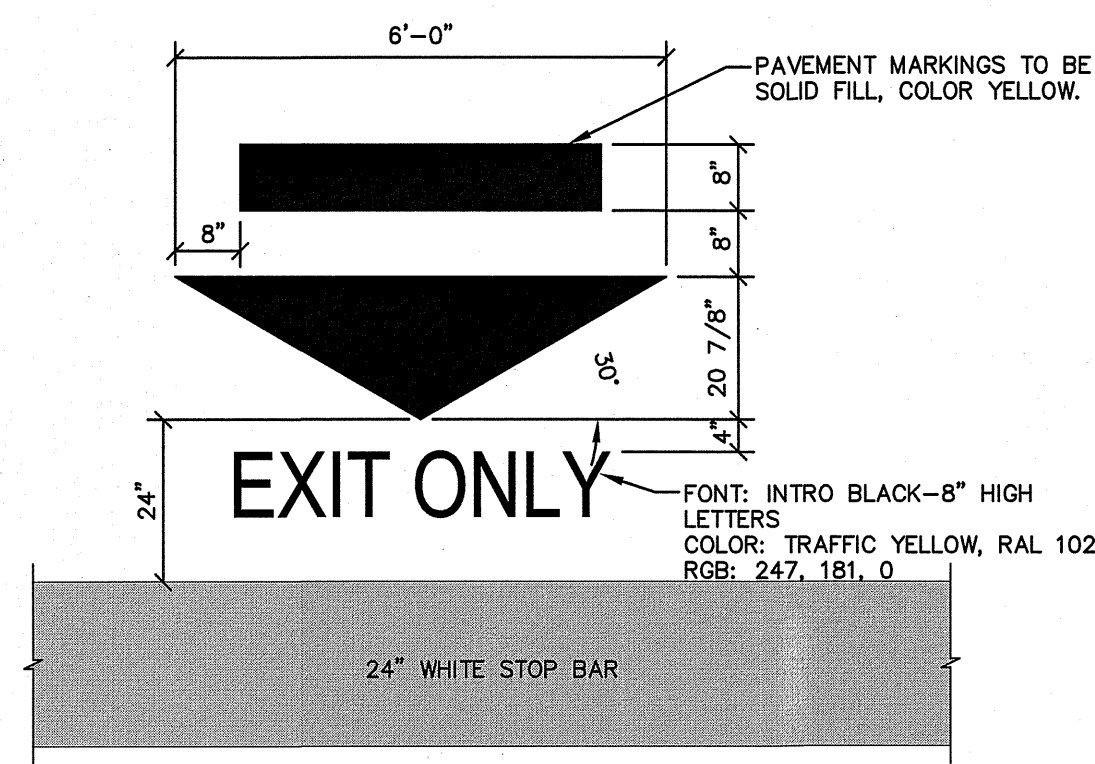
DIVISION 33 - UTILITIES

UTILITIES

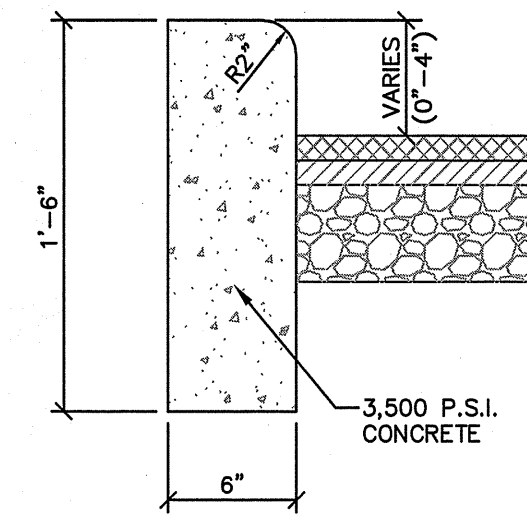
1. PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL UTILITIES CALLED FOR HEREIN AND/OR SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO: STORM SEWER, SANITARY SEWER, WATER SERVICE, GAS SERVICE, ELECTRIC SERVICE, ROOF DRAINAGE, ETC.
2. UTILITIES INCLUDING ELECTRIC SERVICE TO SIGNS WILL BE CONSIDERED SITE WORK AND BROUGHT TO WITHIN FIVE FEET OF THE BUILDING PERIMETER.
3. REQUIRED GREASE TRAP REGARDLESS OF LOCATION SHALL BE CONSIDERED AS PART OF THE WORK OF THIS PROJECT.
4. THE GENERAL CONTRACTOR SHALL VERIFY TAPS AND FURNISH CITY DRAWINGS REQUIRED PRIOR TO CONSTRUCTION.



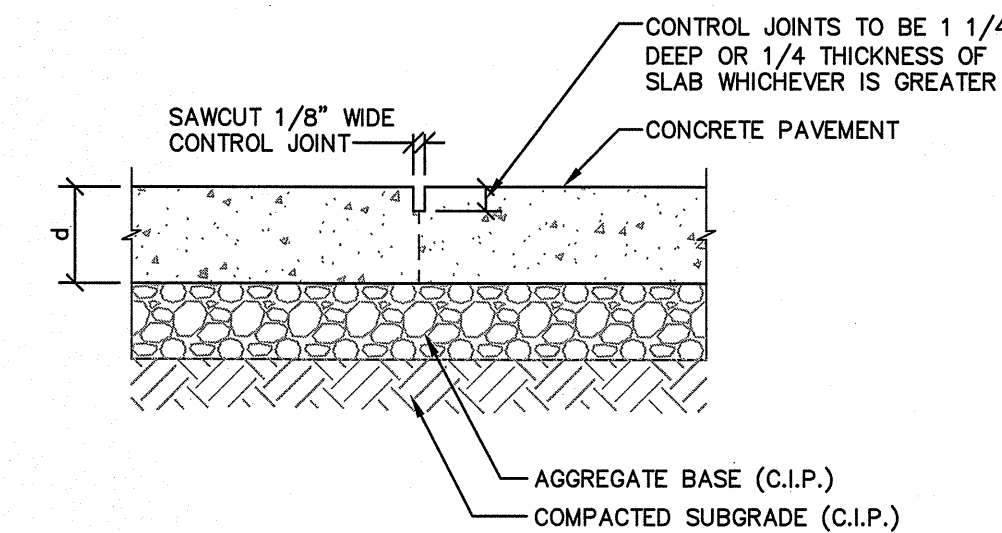
7 PAVEMENT MARKING DETAIL
NO SCALE



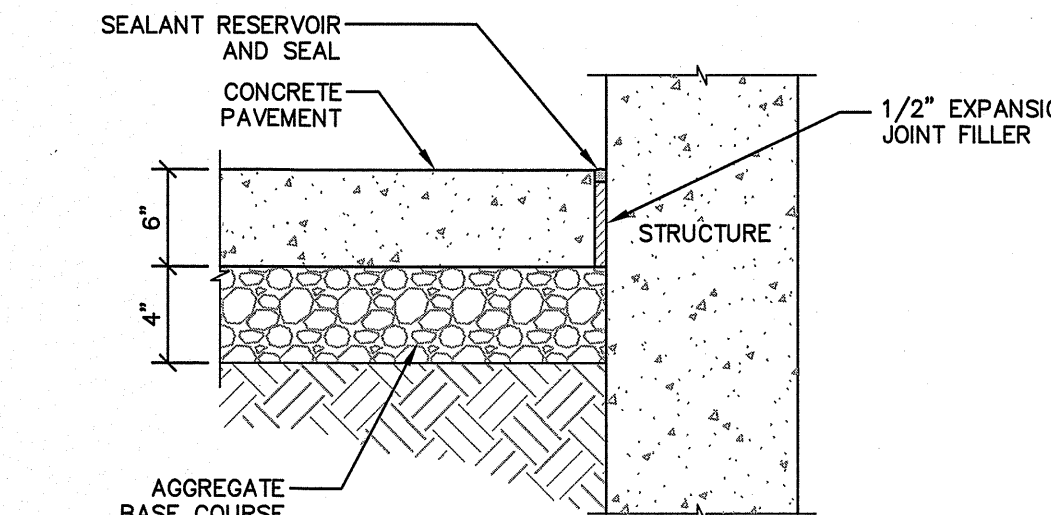
6 PAVEMENT MARKING DETAIL
NO SCALE



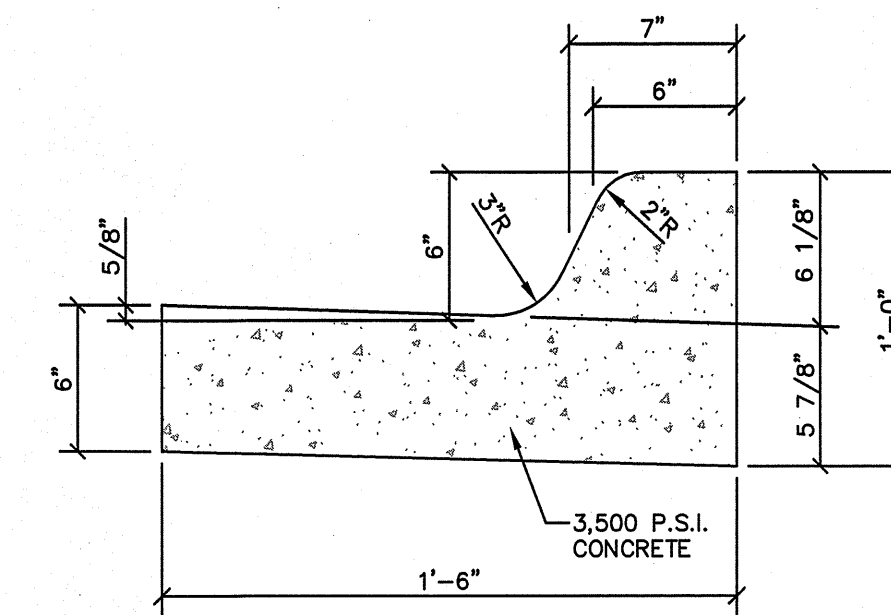
15 STANDARD STRAIGHT CURB
NO SCALE



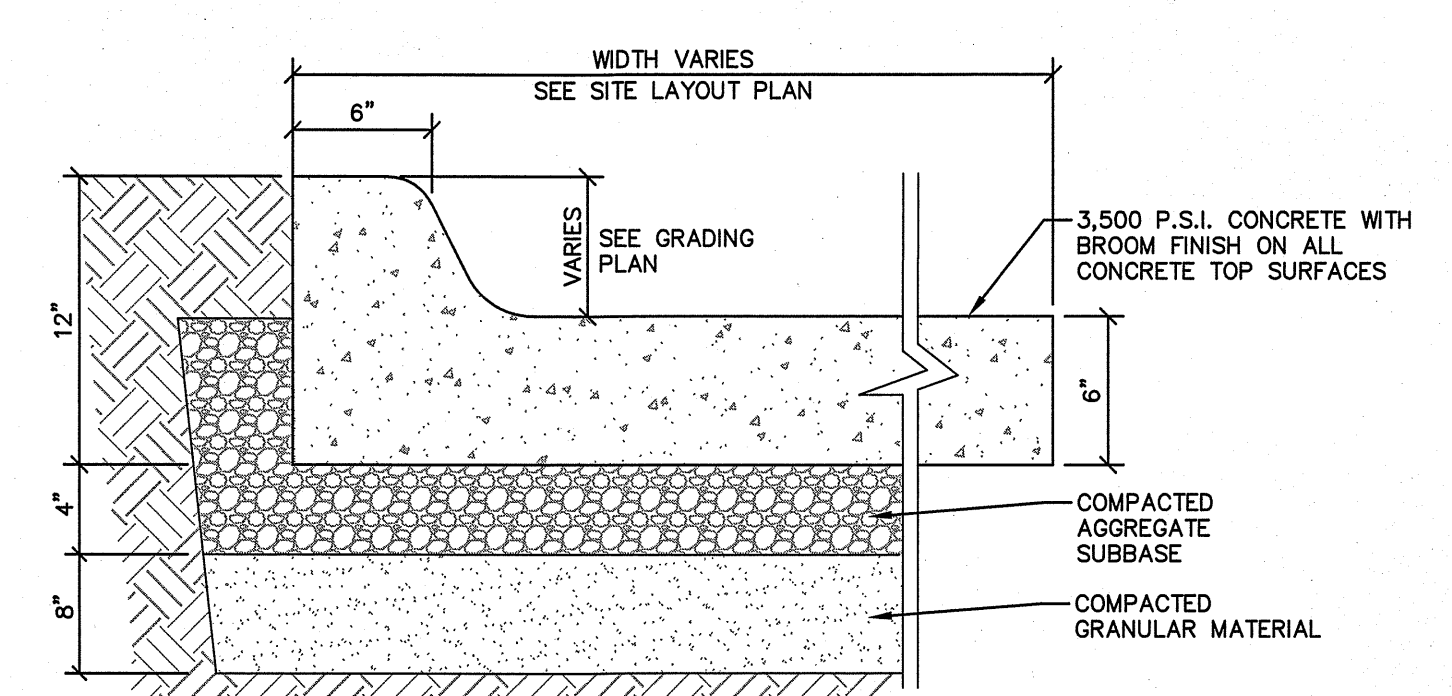
8 CONCRETE CONTROL JOINT
NO SCALE



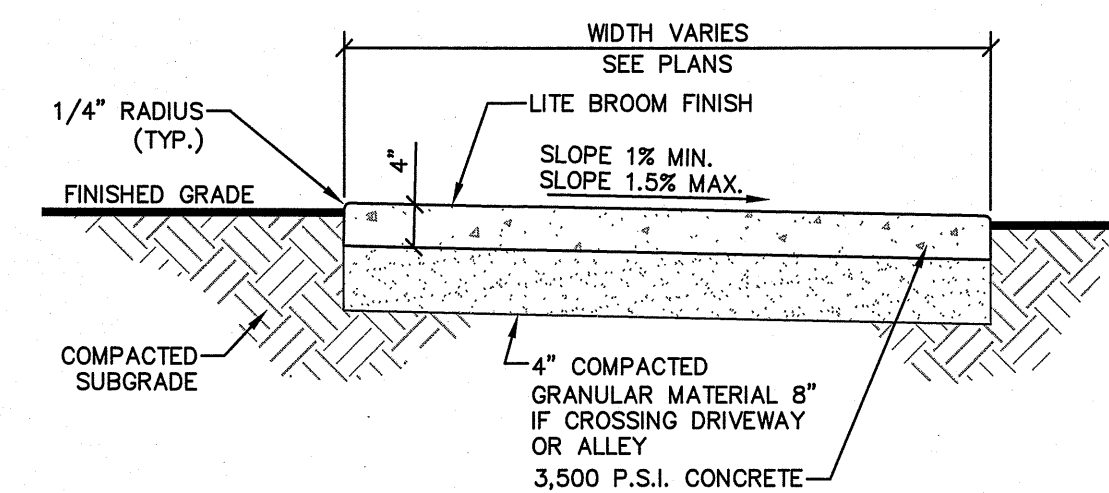
3 CONCRETE EDGE AT BUILDING
NO SCALE



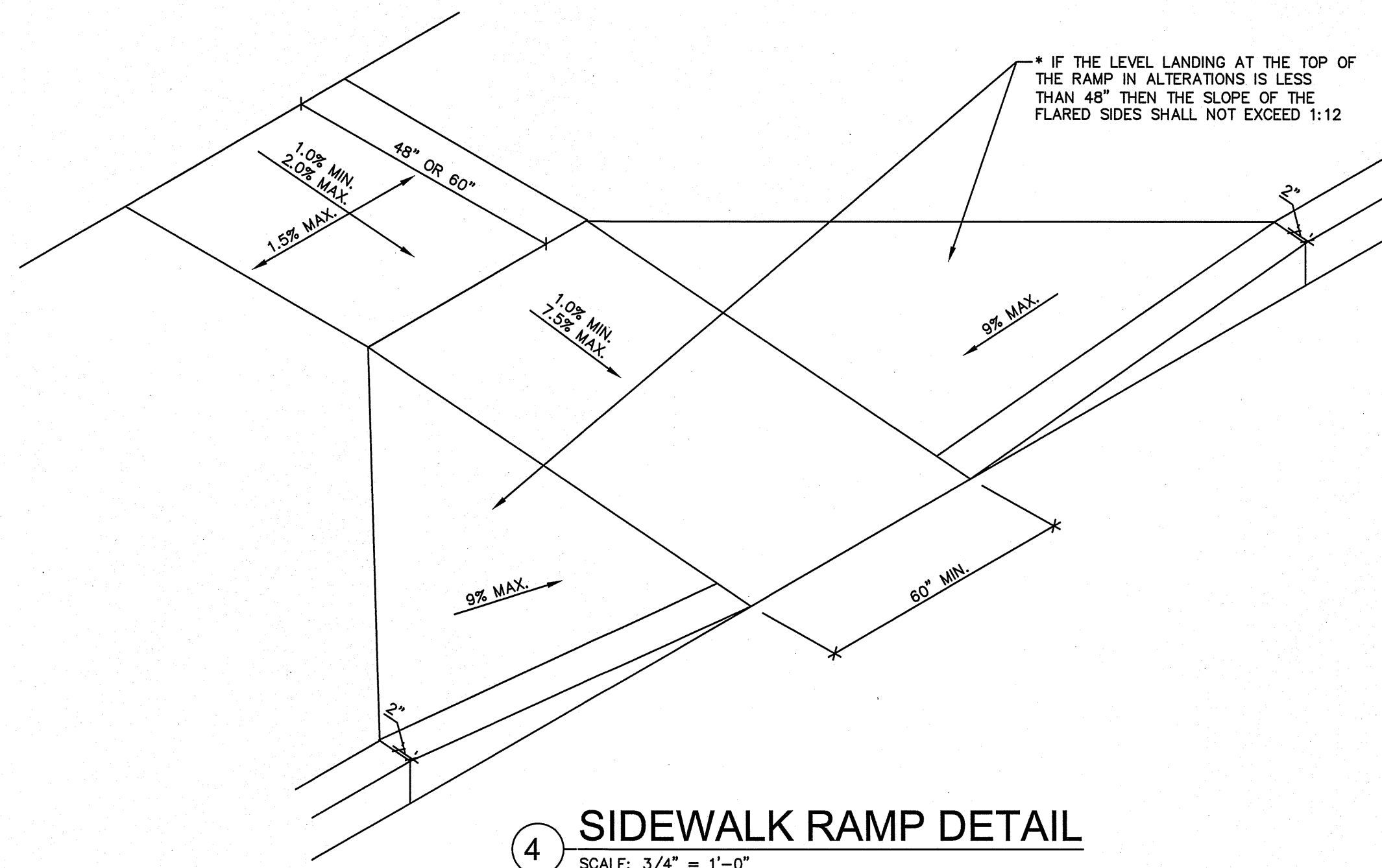
5 CONCRETE CURB & GUTTER
NO SCALE



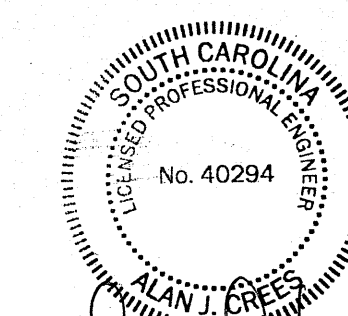
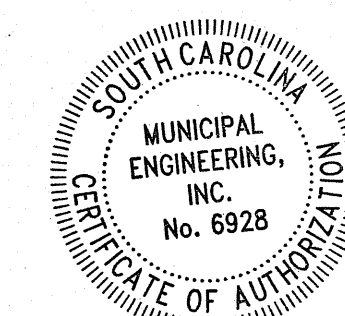
6 INTEGRAL CURB & GUTTER WITH DRIVE-THRU CONCRETE PAD
NO SCALE



1 SIDEWALK DETAIL
NO SCALE



4 SIDEWALK RAMP DETAIL
SCALE: 3/4" = 1'-0"



PLAN SET FOR TOWN
OF CHAPIN ZONING REVIEW

MUNICIPAL ENGINEERING, INC.
68 SHIPWASH DRIVE, GARNER, NC 27529 • PHONE: 919-772-5393
820-B STATE FARM ROAD, BOONE, NC 28607 • PHONE: 828-262-1767
LICENSE NUMBER: F-0812 & C-586

**WENDY'S RESTAURANT
FFC LIMITED PARTNERSHIP
COLUMBIA AVENUE
CHAPIN, SOUTH CAROLINA**

SCALE:	AS SHOWN
DATE:	1-3-25
DRWN. BY:	EGT
CHKD. BY:	AJC
PROJECT NUMBER:	B24052
DRAWING NO.:	C-9
SHEET NO.:	9 OF 10

EQUIPMENT FEEDER SCHEDULE - GAS

EQUIPMENT MARK	VOLTAGE-PHASE	PANEL-CIRCUIT(S)	MOCP	FEEDER		DISCONNECT					REMARKS
				CONDUCTOR & GROUND	PIPE	PROVIDER	AMPERAGE	POLES	FUSES	NEMA	
EF-1	208V-1P	B-26,28	15A	(2)#12 & (1)#12G	1/2"	INTEGRAL	-	-	NF	-	1
EF-2	208V-1P	B-34,36	15A	(2)#12 & (1)#12G	1/2"	INTEGRAL	-	-	NF	-	1
EF-3	120V-1P	A-26	15A	(2)#12 & (1)#12G	1/2"	CONTRACTOR	20A	-	NF	-	-
RTU-1 (TRANE)	208V-3P	MDP-3	80A	(3)#3 & (1)#8G	1"	INTEGRAL	-	-	NF	-	-
RTU-2 (TRANE)	208V-3P	MDP-4	100A	(3)#1 & (1)#8G	1-1/2"	INTEGRAL	-	-	NF	-	-
WH-1	120V-1P	B-33	20A	(2)#12 & (1)#12G	1/2"	CONTRACTOR	20A	2	NF	1	-
UH-1	208V-1P	C-28,30	20A	(2)#12 & (1)#12G	1/2"	INTEGRAL	-	-	NF	-	-

EQUIPMENT FEEDER GENERAL NOTES

- A. DISCONNECT SWITCHES FOR 120V OR 277V EQUIPMENT UNDER 30 AMPS SHALL BE MOTOR RATED TOGGLE SWITCHES.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.
- C. COORDINATE EXACT ROUGH-IN LOCATIONS PRIOR TO START OF CONSTRUCTION.
- D. ALL MULTI-VOLT DISCONNECT SWITCHES PROVIDED BY THIS CONTRACTOR SHALL COME WITH A NEUTRAL AND GROUND LUG KIT.

EQUIPMENT FEEDER REMARKS

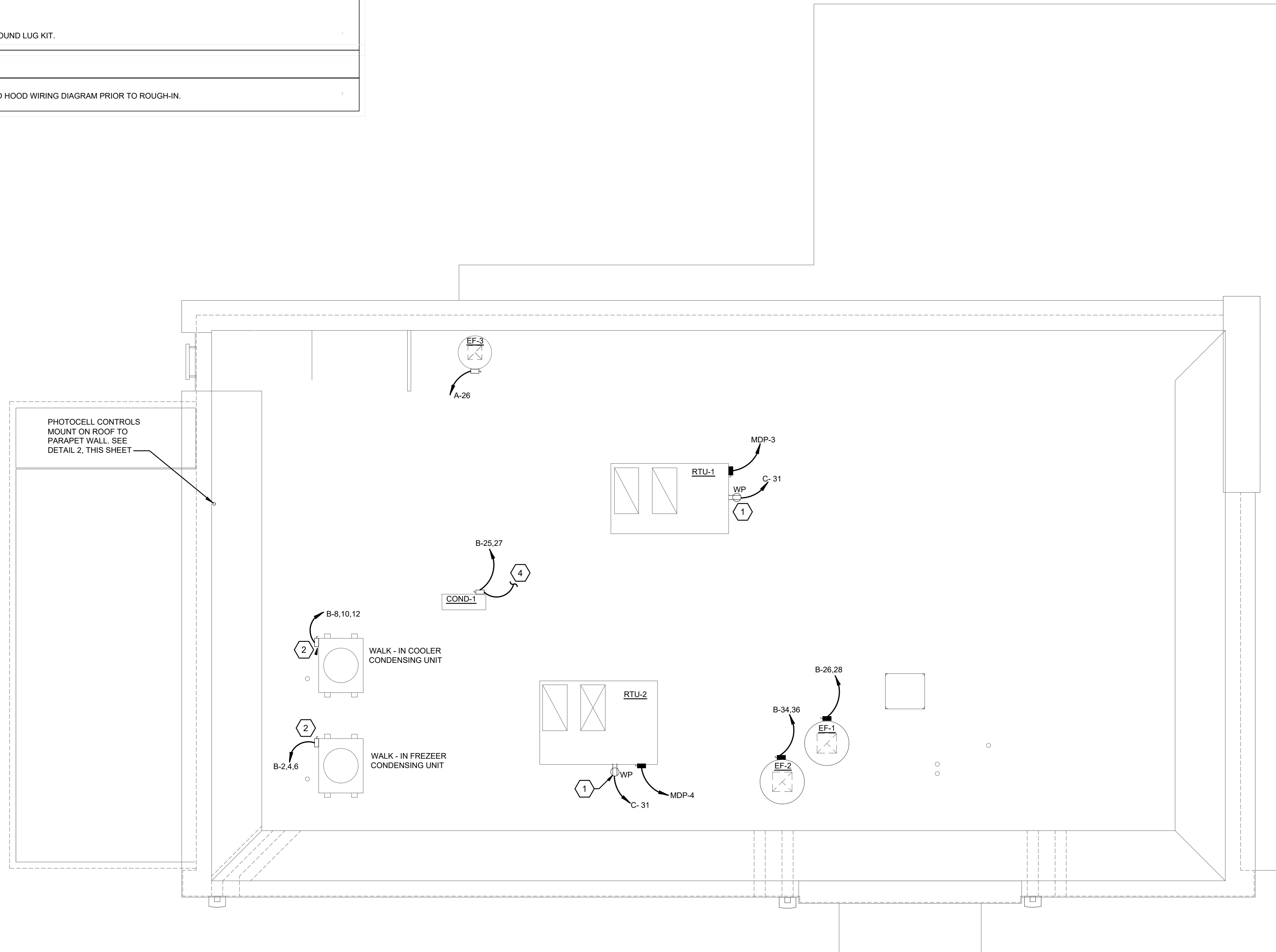
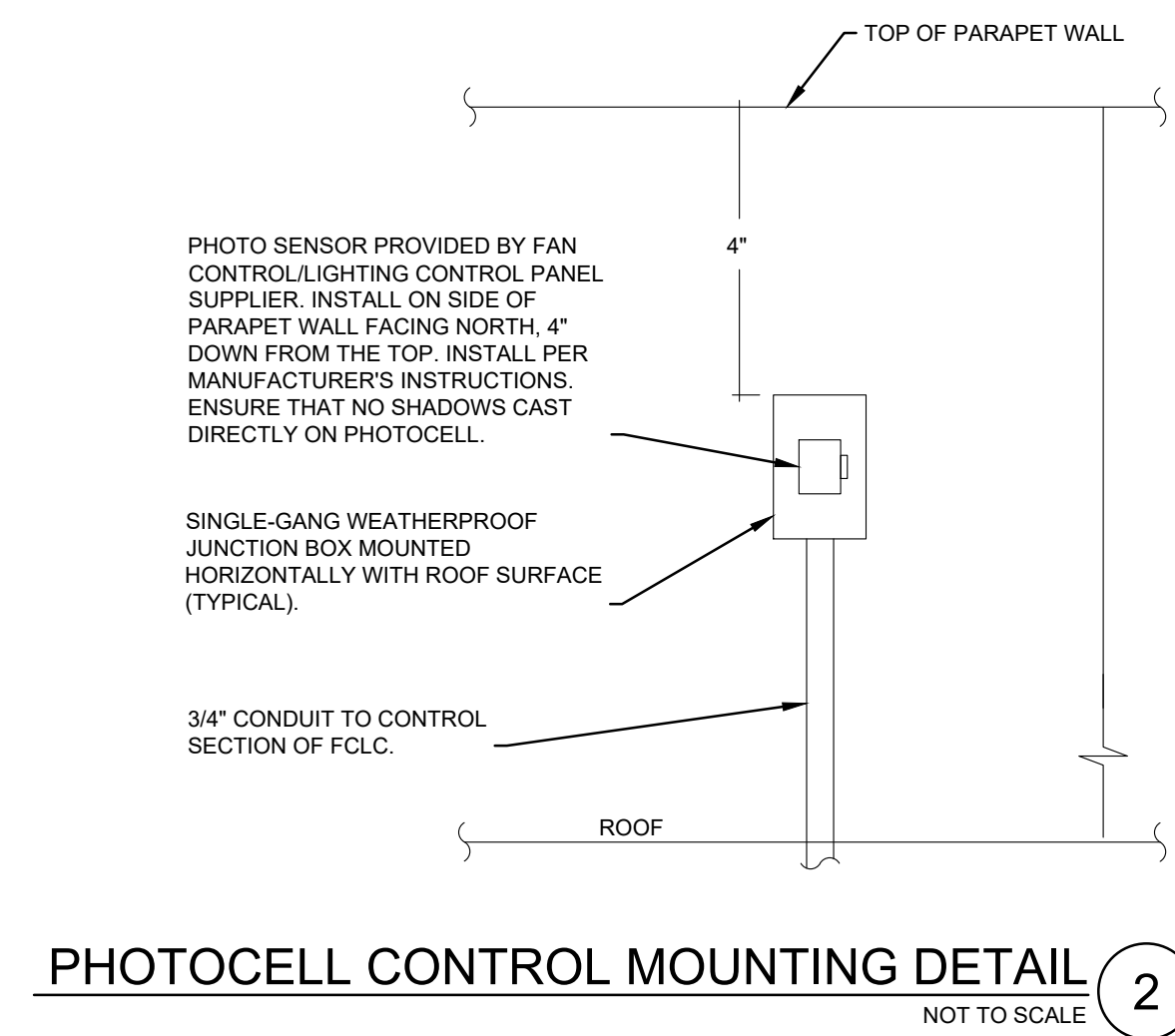
- 1. CONNECT TO ASSOCIATED SWITCH ON HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL DRAWING AND HOOD WIRING DIAGRAM PRIOR TO ROUGH-IN.

ROOF PLAN GENERAL NOTES

- A. REFER TO SHEET E1.1 FOR GENERAL ELECTRICAL NOTES AND SHEET E2.1 FOR ELECTRICAL LEGEND.
- B. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT, CONDUIT STUB-UPS AND POWER CONNECTIONS PRIOR TO ROUGH-IN.
- C. WIRE ROOF TOP UNIT CONTROL CIRCUIT THROUGH AUXILIARY CONTACTS IN SMOKE DETECTOR AND MAKE ALL FINAL CONNECTIONS. (TYPICAL OF ALL ROOF TOP UNITS)
- D. PROVIDE NEMA 3R DISCONNECT SWITCH IF EQUIPMENT MANUFACTURER DOES NOT PROVIDE ONE WITH EQUIPMENT. VERIFY DISCONNECT REQUIREMENTS WITH MANUFACTURER.
- E. DISCONNECTS ARE SHOWN FOR REFERENCE ONLY. ACTUAL LOCATION OF DISCONNECTS SHALL BE COORDINATED AND VERIFIED WITH EQUIPMENT MANUFACTURER AND FINAL ORIENTATION OF EQUIPMENT ONCE PLACED ON ROOF.

CODED NOTES:

- 1. WEATHERPROOF RECEPTACLE PROVIDED WITH ROOF UNIT. PROVIDE POWER AS INDICATED.
- 2. PROVIDE 30A 208V 3P DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. PROVIDE (2)#10 AND (1)#10 GROUND IN 3/4" CONDUIT FROM EQUIPMENT TO REMOTE UNIT. VERIFY ALL OTHER REQUIRED WIRING. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND MAKE ALL FINAL CONNECTIONS REQUIRED FOR PROPER OPERATION.
- 3. PROVIDE 30A 208V 2P DISCONNECT SWITCH IN NEMA 3R ENCLOSURE FOR ICE MACHINE CONDENSING UNITS. MAKE ALL CONNECTIONS TO ASSOCIATED UNIT PER MANUFACTURER'S INSTRUCTIONS.
- 4. INDOOR UNIT OF SPLIT-SYSTEM IS POWERED FROM OUTDOOR UNIT. PROVIDE ELECTRICAL CONNECTION BETWEEN UNITS PER MANUFACTURER REQUIREMENTS. COORDINATE ALL ELECTRICAL REQUIREMENTS, FINAL UNIT LOCATIONS, AND CIRCUIT ROUTING WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



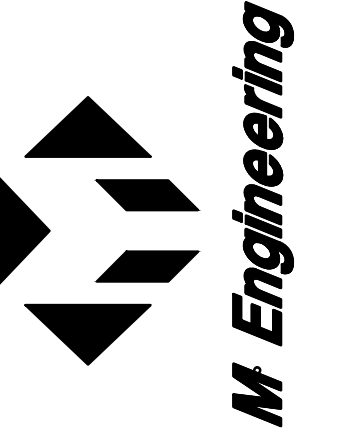
POWER PLAN - ROOF 1

1/4" = 1'-0"

SITE NUMBER: 14722
 BUILDING TYPE: NEXT GEN 40
 ASSET TYPE: FREESTANDING
 CLASSIFICATION: NEW
 OWNER: TAR HEEL CAPITAL CORP #2
 BASE VERSION: 2022
 UPGRADE CLASSIFICATION: NEW BUILD
 PROJECT YEAR: 2024
 DESIGN TYPE: GLOBAL
 DRAWING RELEASE: SPRING 2024

Project No. 24-091

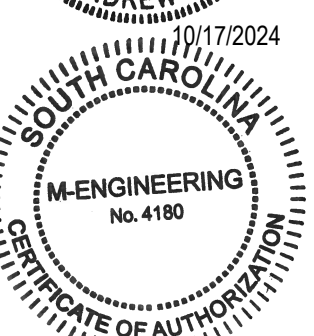
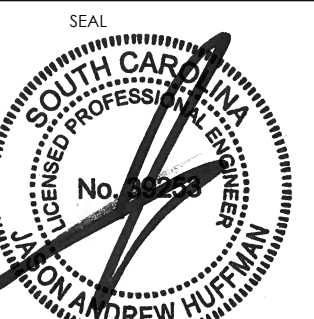
750 Brocksege Boulevard
 Westerville, Ohio 43081
 614-839-4639
 614-839-2222 FAX



Wendy's
 566 COLUMBIA AVENUE
 CHAPIN, SC. 29036

REV.	DATE	DESCRIPTION

ISSUE DATE: 10/15/2024
 PROJECT NUMBER: 14722
 DRAWN BY: BLS
 CHECKED BY: BLS

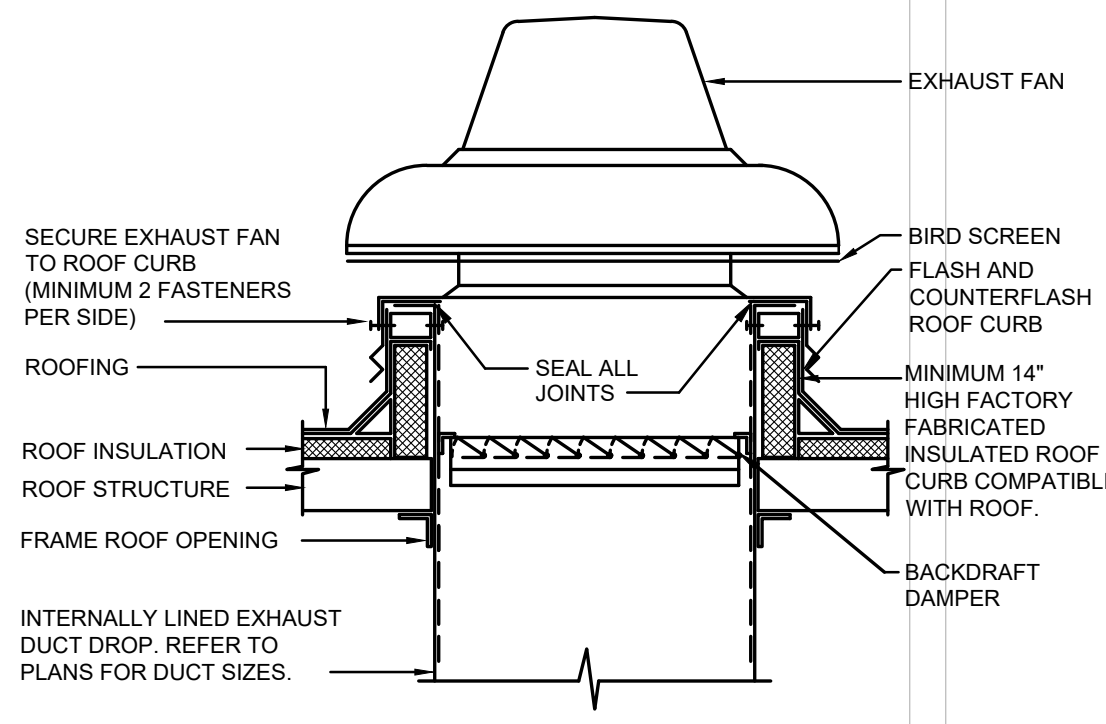


SHEET NAME

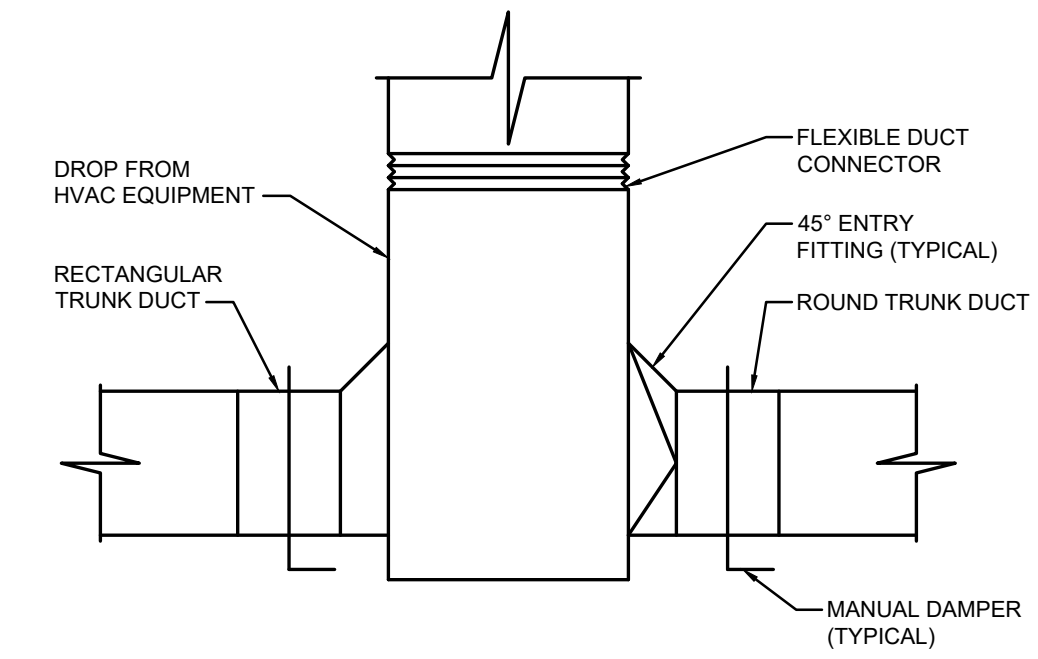
POWER ROOF PLAN

SHEET NUMBER

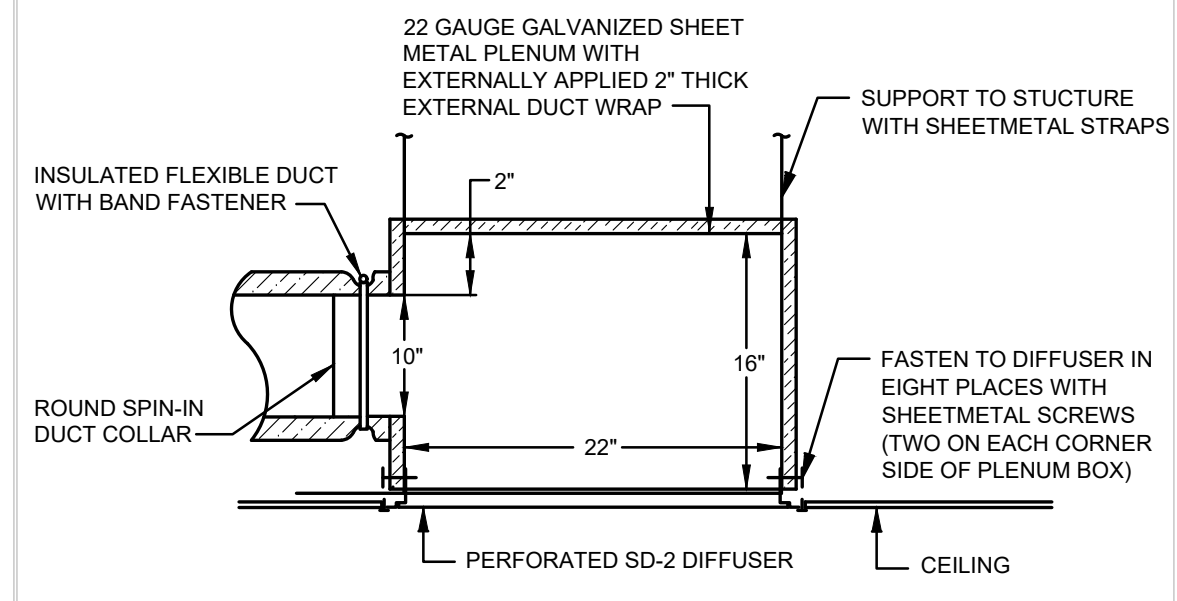
E2.3



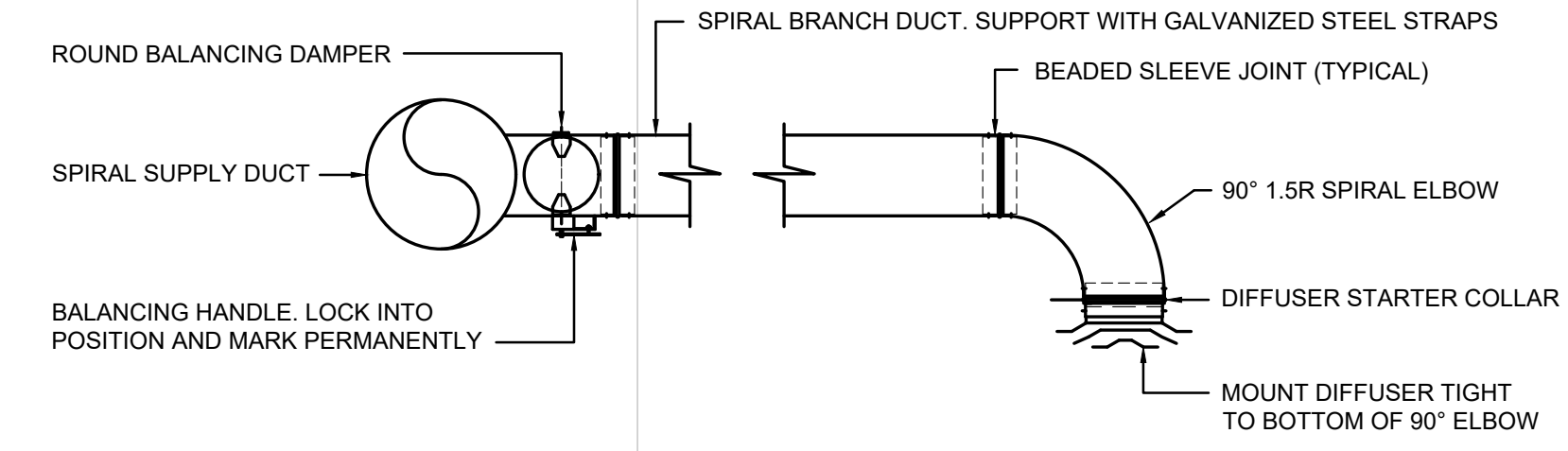
EXHAUST FAN DETAIL 12
NOT TO SCALE



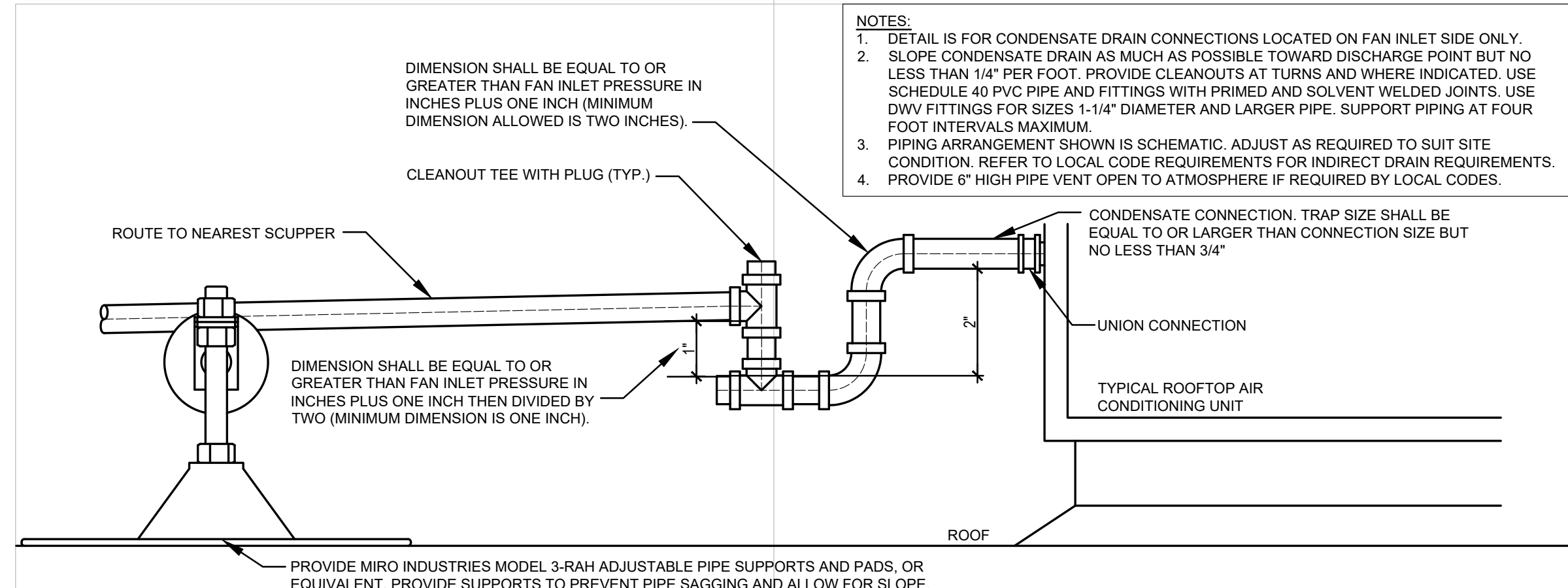
ROOFTOP EQUIPMENT DUCT DROP DETAIL 11
NOT TO SCALE



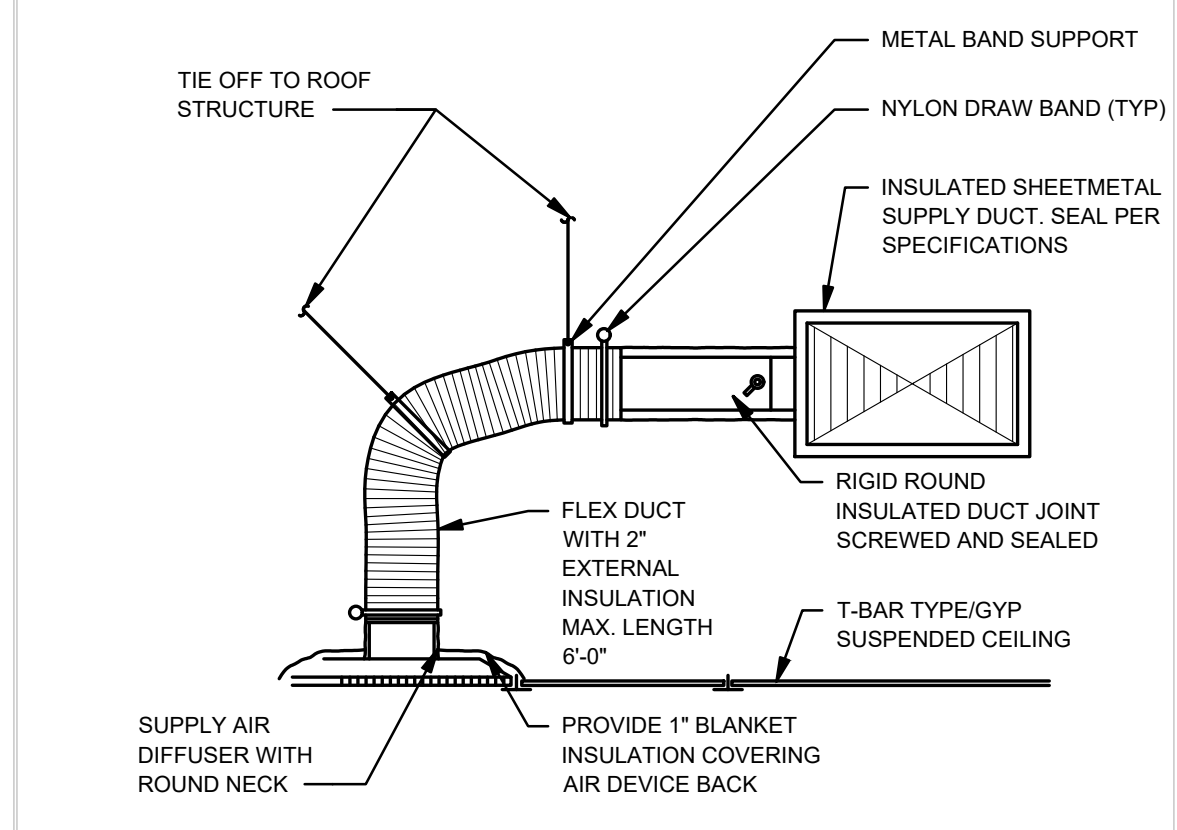
DUMP BOX DETAIL 07
NOT TO SCALE



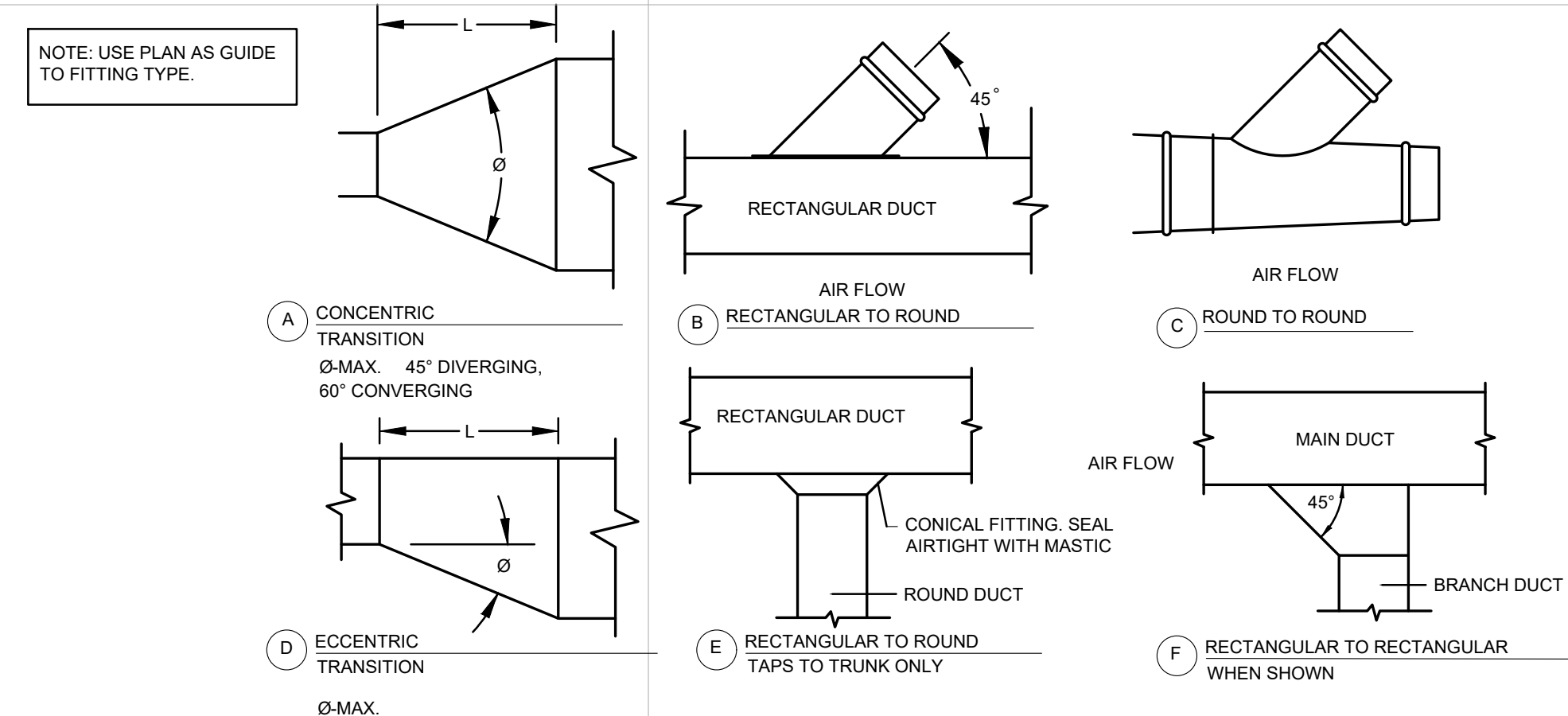
EXPOSED BRANCH DUCT INSTALLATION DETAIL 03
NOT TO SCALE



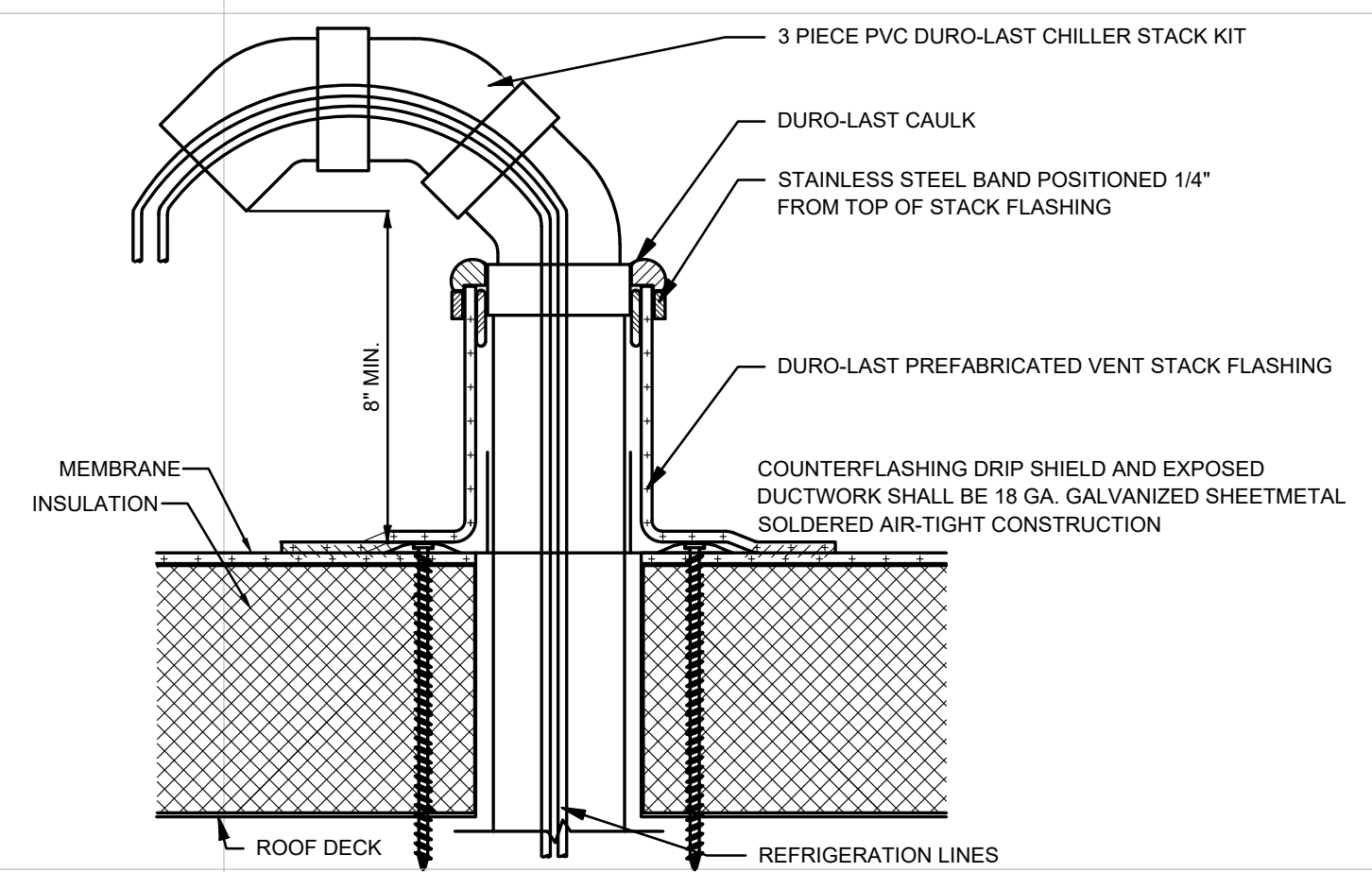
ROOFTOP UNIT CONDENSATE 10
NOT TO SCALE



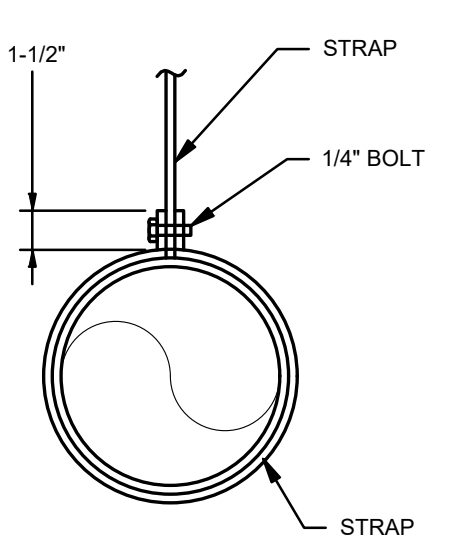
CEILING DIFFUSER DETAIL 06
NOT TO SCALE



DUCT FITTING DETAILS 02
NOT TO SCALE



GOOSENECK WEATHERHOOD ROOF PENETRATION DETAIL 09
NOT TO SCALE

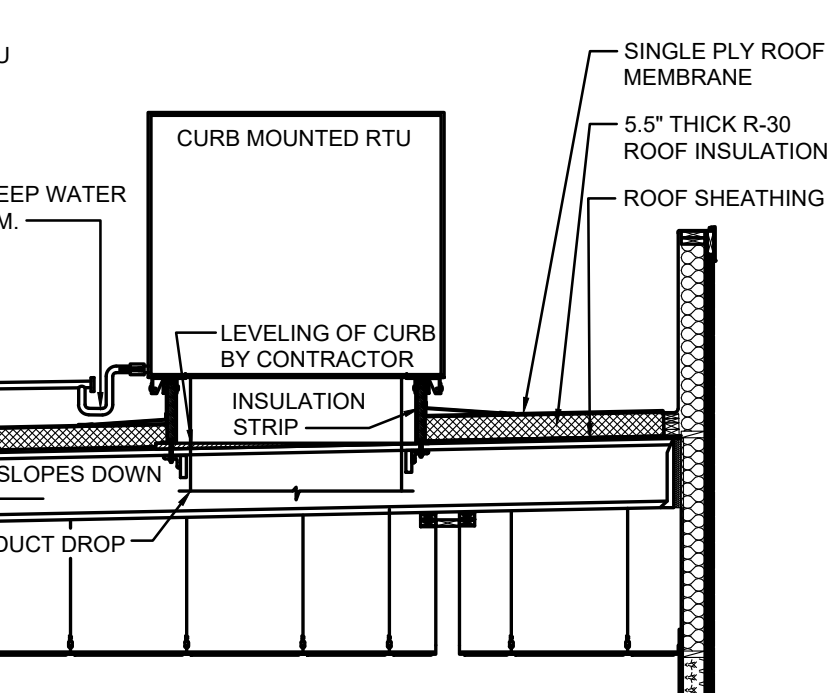


ROUND DUCT HANGER DETAIL 05
NOT TO SCALE

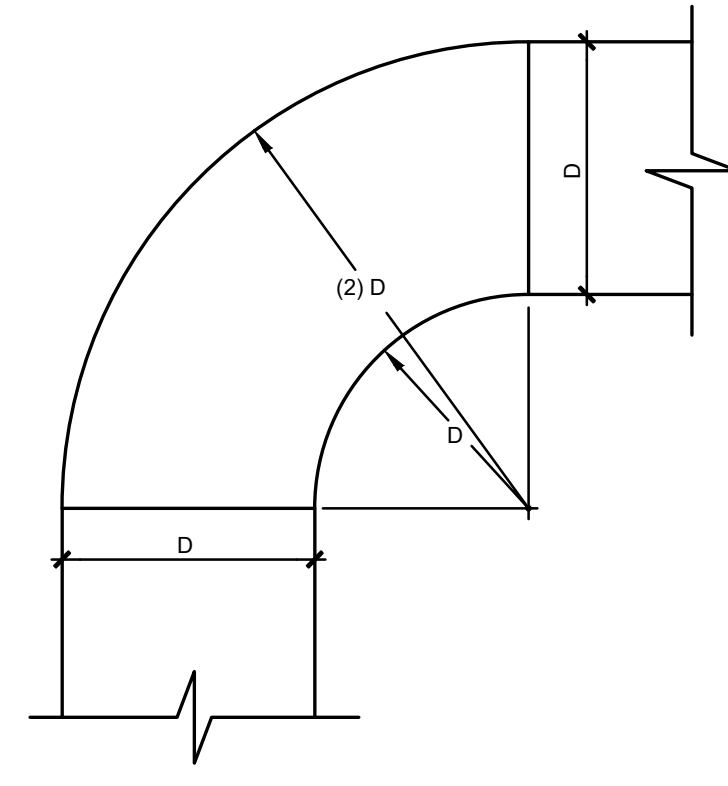
EQUIPMENT SHALL BE FASTENED AND CURBS PERMANENTLY AFFIXED. FINAL INSTALLATION SHALL BE SUITABLE FOR WIND LOADS AT SITE. REQUIREMENTS SHALL BE REVIEWED AND APPROVED BY LICENSED PROFESSIONAL ENGINEER. REFER TO STRUCTURAL FRAMING DETAILS AND/OR STRUCTURAL REVIEW LETTER FOR ROOF CURB STRUCTURAL FRAMING DETAILS.

APPROX. 53" ABOVE ROOF SURFACE TO FAN DISCHARGE. DISCHARGE SHALL BE SLIGHTLY ABOVE ADJACENT PARAPET. MAINTAIN 40 INCHES ABOVE ROOF TO FAN DISCHARGE MINIMUM AND AT LEAST 18 INCHES CLEAR OF COMBUSTIBLE MATERIAL.

PROVIDE MANUFACTURER REQUIRED CLEARANCE FROM RTU TO FAN AND MINIMUM OF 2'-0" BETWEEN EF-1 AND EF-2



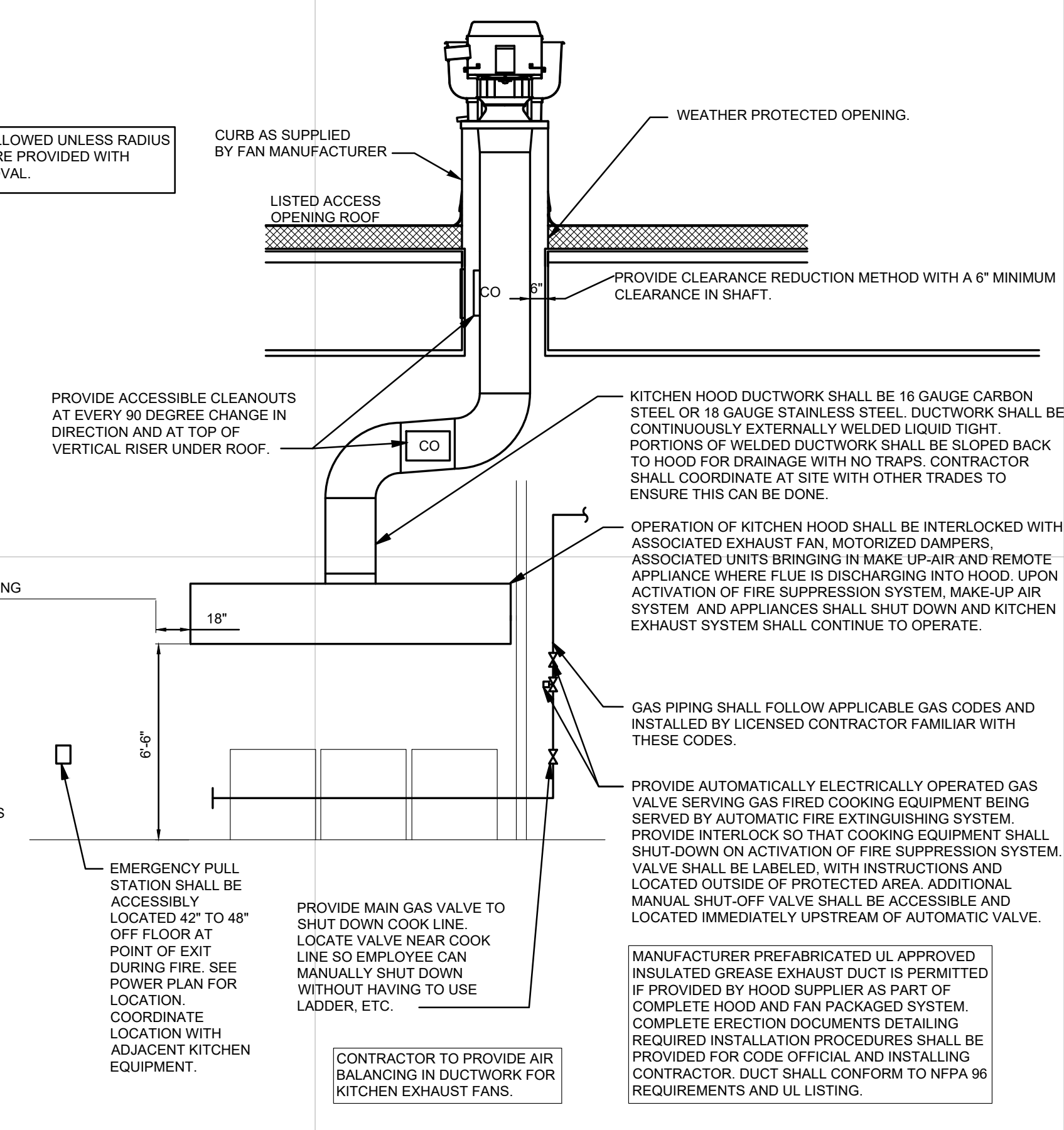
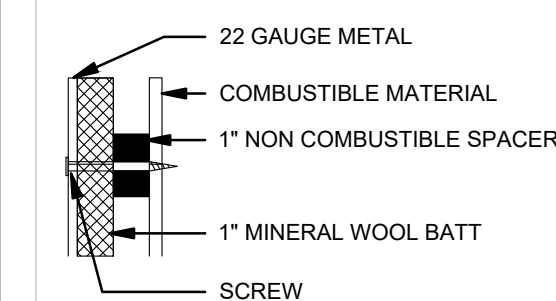
EXHAUST FAN AND RTU CURB DETAIL 08
NOT TO SCALE



RADIUS ELBOW 04
NOT TO SCALE

NO 90° BENDS IN GREASE DUCT ALLOWED UNLESS RADIUS ELBOWS WITH ACCESS PANELS ARE PROVIDED WITH CONSTRUCTION MANAGER APPROVAL.

CLEARANCE AND CLEARANCE REDUCTION METHODS
NFPA 96 1-3.2 CLEARANCE NOTE:
HOODS, GREASE EXTRACTORS, DUCTS, ECOLOGY UNITS, FANS SHALL HAVE MINIMUM CLEARANCE:
18" TO COMBUSTIBLES
3" TO LIMITED COMBUSTIBLES, 6" IN SHAFT
0" TO NON COMBUSTIBLES, 6" IN SHAFT
WHERE SPACE DOES NOT ALLOW FOR NOTED CLEARANCES AS IT PERTAINS TO TYPE OF CONSTRUCTION, CLEARANCE REDUCTION METHOD MAY BE APPLIED.
OPTION 1: AS ILLUSTRATED BELOW
OPTION 2: USE LISTED 3M FIRE DUCT WRAP 615+



MECHANICAL EXHAUST DUCT DETAIL 01
NOT TO SCALE

SITE NUMBER: 14722
BUILDING TYPE: NEXT GEN 40
ASSET TYPE: FREESTANDING
CLASSIFICATION: NEW
OWNER: TAR HEEL CAPITAL CORP #2
BASE VERSION: 2022
UPGRADE CLASSIFICATION: NEW BUILD
PROJECT YEAR: 2024
DESIGN TYPE: GLOBAL
DRAWING RELEASE: SPRING 2024

Project No. **24-091**

750 Brookedge Boulevard
Westerville, Ohio 43081
614-839-4639
614-839-2222 FAX
M Engineering

Wendy's
566 COLUMBIA AVENUE
CHAPIN, SC. 29036

REV.	DATE	DESCRIPTION

ISSUE DATE: 10/15/2024
PROJECT NUMBER: 14722
DRAWN BY: BLS
CHECKED BY: BLS

SEAL
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 4190
ANDREW HUI
10/17/2024
M-ENGINEERING
No. 4190
STATE OF SOUTH CAROLINA
OFFICE OF AUTHORIZATION

SHEET NAME: HVAC DETAILS
SHEET NUMBER

M2.0

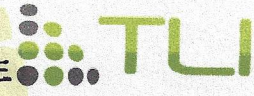
10/27/2024 4:26:56PM - 244200242195102_0_HVAC Details.dwg - bhafler

Viceroy Wet

Architectural Outdoor

EL-1

EXTERIOR
LIGHT FIXTURE
(5) LOCATED ON THE
PICK UP WINDOW
SIDE OF THE BUILDING



The Viceroy Wet encapsulates the convergence of cutting-edge design and superior lighting technology. This streamlined wall-mounted fixture gracefully fits into both modern and classic spaces. With its compact and stylish form, it's especially suited for commercial facades and luxury residential interiors. Architects aiming for a blend of design sophistication and optimal illumination will find the Viceroy Wet to be an unparalleled choice.

LED Engine

- Color Temp (CCT):** 3000K, 3500K, 4000K
- CRI:** 80+ (consult factory for 90+)
- Life Expectancy:** L70 rated at 50,000+ hours
- Binning:** 3-step Macadam
- Output:** Min 2022 Delivered Lumens
Max 4154 Delivered Lumens

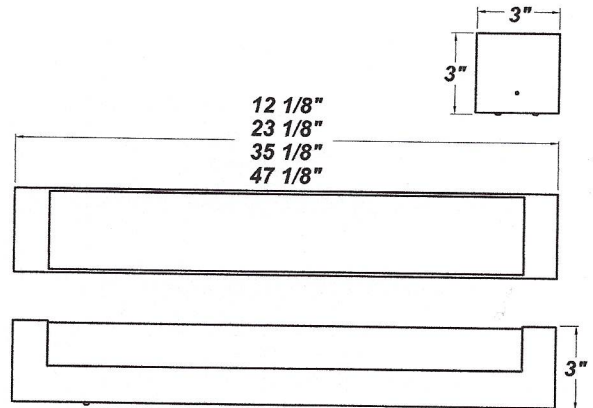
Driver

- Type:** Constant current, Class 2, 120-277 Vac, 50/60Hz
- Dimming:** 0-10V and Phase (Leading or Trailing edge)
- Efficiency:** Min 92%
- Operating Temp:** -40°C / -40°F to 50°C / 122°F
- FCC Noise:** Meets FCC Title 47 EMC Part 15 limits

Certifications

- Location Listing:** Wet Location Rated for Wall Mounting
- Other:** ADA Compliant
Buy America Compliant

Dimensions



* AT MAXIMUM LUMENS
ACCENT LIGHT FIXTURES
PRODUCE 3.2 FOOTCANDLES
OF LIGHT

Construction

Mounting Plate: Die-formed aluminium. **Housing:** die-formed aluminium with white acrylic diffuser. **Finish:** high quality polyester powder coating, various finishes. **Mounting:** Wall or ceiling above a 4 inch junction box.

Catalog String

Fixture Core	VCYW					UNIV
		1	2	3	4	5
Aesthetics & Options						
		6	7	8		

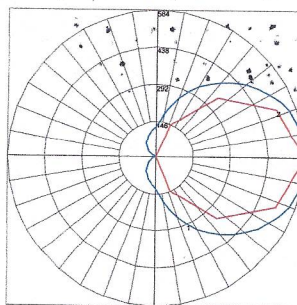
Product Specifications

1 — Product Code	2 — Trim	3 — Wattage	4 — Dimming	5 — Voltage
12 - VCYW12	STD (blank)	L6.0 (12"/LT only)	ZE - 0-10V	UNIV - (120V-277V)
24 - VCYW24	FLO	L12.0 (12"/LT only)	LT - Leading/Trailing Edge	
36 - VCYW36		L13.0 (12"/ZE only)		
48 - VCYW48		L25.0 (26"/ZE only)		
		L30.0 (36"/ZE only)		
		L36.0 (48"/ZE only)		
		L41.2.0 (48"/ZE only)		

6 — Finish	7 — CCT	8 — Options
FBK - Fine Textured Black	30K - 3000K	EB - Integral EM Battery (48"/L36.0 only)
FBZ - Fine Textured Bronze	35K - 3500K	
FWH - Fine Textured White	40K - 4000K	
FSV - Fine Textured Silver		

Performance

Wattage	Delivered Lumens	Efficacy LM/W	CCT	Size
L25.0	2022	81	3000K	24
L36.0	4154	115.3		48



Polar Graph Details:

IES File Name: VCYW24-L20_6-ZE600-SM-3000K.IES

Maximum Candela = 584 Located At Horizontal Angle = 0, Vertical Angle = 95

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (95) (Through Max. Cd.)

Bug Rating: B0-U4-G2

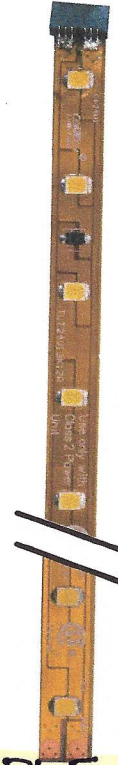
DATE

PROJECT **WENDY'S**

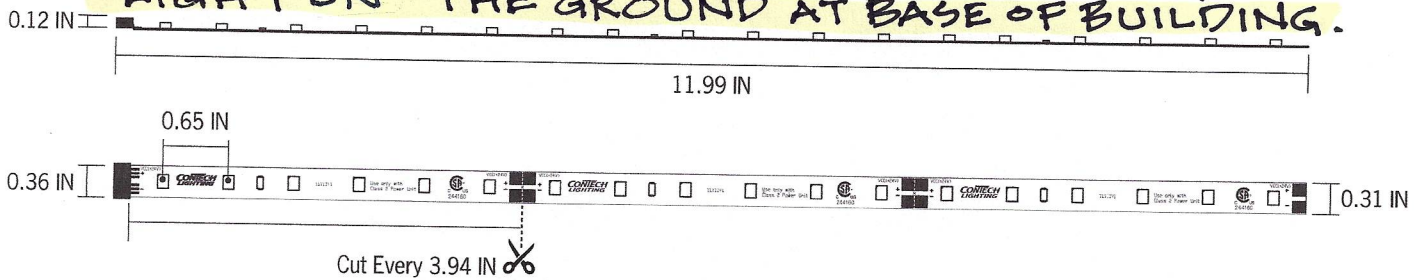
TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

WATTAGE	2.1W/Ft
LUMEN OUTPUT	248Lm/Ft (3000K) ✱
LED DENSITY	18 LED/Ft (0.65" Spacing)
COLOR TEMPERATURE	2700K, 3000K, 3500K, 4000K
CRI	80+
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance
INPUT VOLTAGE	24V
DIMMING	Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
RUN LENGTH	32 Ft Max
AMBIENT OPERATING TEMP	-4° to 104°F (-20° to 40°C)
LISTING	cCSAus Certified to UL Standards Suitable for Dry or Damp Locations Not Suitable for Wet Locations Closet Rated
WARRANTY	Full replacement guarantee after date of purchase: - Five years when installed with mounting channel - Three years when installed without mounting channel



*** PRODUCES LESS THAN (1) FOOTCANDLE OF LIGHT ON THE GROUND AT BASE OF BUILDING.**



Ordering Information

Example Order:

SEE ANGLED MOUNTING CHANNEL ON P9.

TLT24V	1		
Tapelight Series	Output	Color Temp	Length/Quantity
TLT24V - 24VDC Performance LED Tapelight	1 - Standard Output	27K - 2700K 3K - 3000K 35K - 3500K 4K - 4000K	4 - 4 In Individual Segment 12 - 12 In Individual Segment 4R - 20 Ft Reel of 4 In Segments (60 Pieces Total, Actual Length 19.75 Ft) 12R - 20 Ft Reel of 12 In Segments (20 Pieces Total, Actual Length 19.75 Ft) 30CR - 30 Ft Continuous Reel (Actual Length 29.35 Ft)

DATE

PROJECT

TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

Product Details

Features

- Flexible, low voltage linear LED accent lighting system provides high quality illumination for many indoor applications
- Modular “plug and play” system, no need for field soldering
- Wide range of Power Supplies, Controllers, Connectors and Mounting Channels
- Available in:
 - Individual 4 inch and 12 inch segments with male and female connector ends
 - 20 Foot Reels of connected, individual 4 inch or 12 inch segments
 - 30 Foot Continuous Reels (no mid-connectors); one male and one female connector end
- TLT24V1 Series can be cut (on the cut lines) in 4 inch increments
- Easy to install using the 3M Double Sided Adhesive on each segment; tape can be directly mounted to most surfaces
- For additional thermal heatsinking, protection of the LEDs and an overall cleaner aesthetic, using the Aluminum Mounting Channel is recommended
- For added protection of the LEDs and subtle diffusion and glare control, a Clear or Frosted Lens may be used; Lens must be used with the Aluminum Mounting Channel and is easily installed

Performance Summary

- High output LEDs provide excellent luminous intensities at low drive currents
- Low power consumption and consistent, stable performance
- Delivers 248 lumens at 2.1W per foot (delivered lumens based on 1 foot of 3000K tape)
- Single run length up to 32 feet on one 96W power supply
- Dimmable using any of the TL Series Dimming Controls
- TLT24V1 Standard Output tapelight series is available in 2700K, 3000K, 3500K and 4000K
- Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
- System designed and rated for 50,000 hours at 70% lumen maintenance when mounted in ConTech Aluminum Mounting Channel
- cCSAus Certified to UL standards
- Suitable for dry or damp locations; not suitable for wet locations
- Closet Rated

Warranty

- Covered by ConTech's full replacement guarantee after date of purchase:
 - Five (5) year replacement guarantee when tape light is installed using the Aluminum Mounting Channel
 - Three (3) year replacement guarantee when installed without the Aluminum Mounting Channel

Run Lengths

TLT24V1 24V POWER SUPPLY INPUT: 24V DC	TLT24V1 STANDARD OUTPUT (SO) 2.1W/FT	
	MAX RUN	MAX SPLIT
20W	7 FT	9 FT
36W	11 FT	16 FT
60W	18 FT	26 FT
90W	28 FT	40 FT
96W	32 FT	45 FT

- Max Split can be split more than once, without exceeding the max single run in each leg.
- Max Run refers to the total single run of tapelight that can go on a power supply. Max Split refers to the total amount of tapelight that can go on a driver if it were separated into two runs.
- Max Run lengths are calculated with 12V or 24V DC at the start of the tape run. Voltage drop may occur if not using proper wire gauge. Please refer to the Voltage Drop and Wire Length Distance chart.
- Max Run lengths are calculated with no more than 30% light loss from the start of the tape run to the end of the tape run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.
- Overall distance of LED tape under load [illuminated sections]. If exceeded damage to the power supply and LED tape may result.

DATE

PROJECT

TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

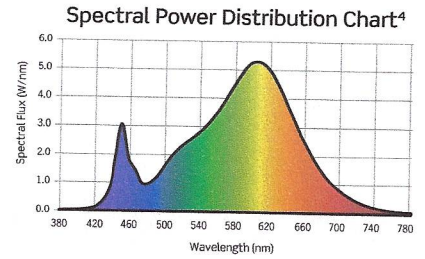
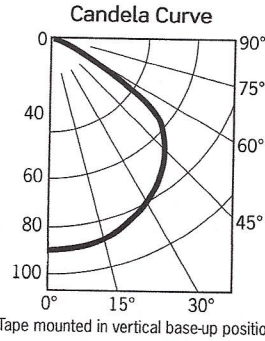
Photometrics

TLT24V13K12

Fixture Delivered Lumens: 247.91
 Total Watts@120V: 6.74
 Lumens Per Watt: 37.0
 Center Beam Candle Power: 90.0
 Beam Distribution: 116°
 Spacing Criterion: 1.3
 Color Rendering Index (CRI)¹: 82
 Color Temperature (CCT)²: 2971K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21010607
 LM-79 Test No. S21022404

Intensity Distribution

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
2'	22.5	5.9
4'	5.6	11.9
6'	2.5	17.8
8'	1.4	23.7
10'	0.9	29.6
12'	0.6	35.6



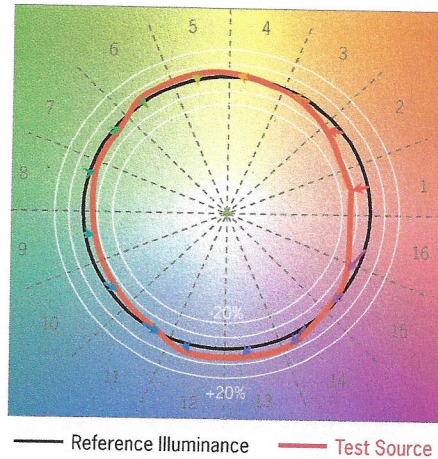
1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source

TM-30 Data

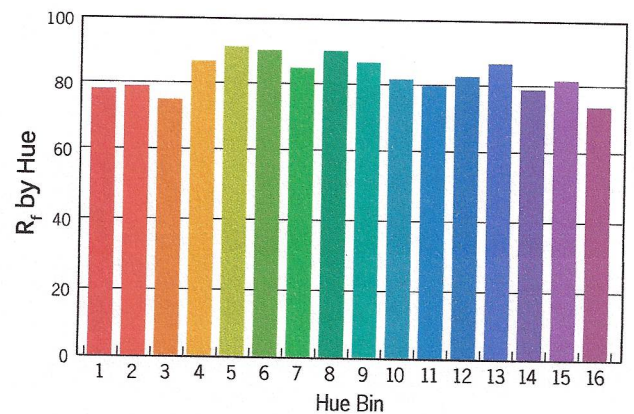
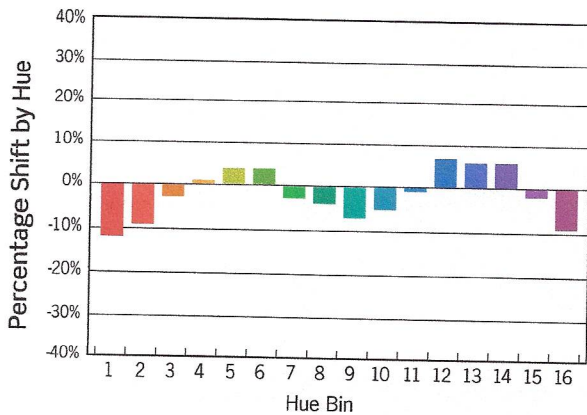
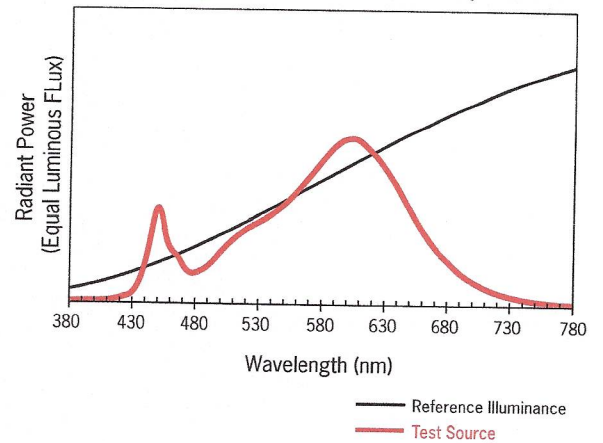
ANSI/IES TM-30-18 Color Rendition Report Test No. S21022404

R_f	84
R_g	96
CCT(K)	2971K
D_{uv}	-0.0010
u^I	0.2520
v^I	0.5205

Color Vector Graphic



Spectral Power Distribution Comparison



Colors are for visual orientation purposes only

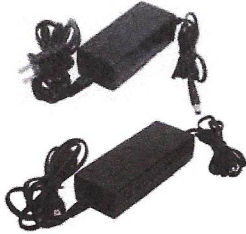
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 24V Power Supplies

24V Plug-In Power Supplies



TLP24VP Series

Plug-and-Play Power Supply

120VAC/24VDC. Includes AC wall plug and female power output barrel plug for easy installation. Class 2 listed.

For use with 24V LED Tapelight.

Power Supply/Wattage

TLP24VP36 - 36W
4-1/4" L x 2" W x 1-3/8" H

TLP24VP60 - 60W
4-1/2" L x 2" W x 1-3/8" H

TLP24VP96 - 96W
6-1/8" L x 2-3/8" W x 1-1/2" H

Quantity

24V Hardwire Power Supplies

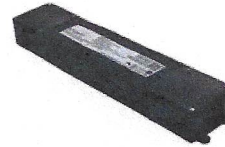


TLP24VHW Series

Hardwire Power Supply

120VAC/24VDC. Includes stripped and tinned wire pigtailed on the input and output sides. **MUST BE MAINTAINED WITHIN AN ENCLOSURE THAT MEETS LOCAL BUILDING CODES AND NEC (SUPPLIED BY OTHERS).** 1 Ft Wire leads. Class 2 recognized.

For use with 24V LED Tapelight.



TLP24VHW * MV-ENC Series

Hardwire Class 2 Constant Voltage Driver

120 - 277VAC/24VDC Dimming and non-dimming Class 2 Constant Voltage LED Drivers. UL Listed enclosure with built-in junction boxes. No minimum load requirement. Auto-reset protection for short circuit and over-temperature. Over load protection in CC mode. 0-10V Dimming driver delivers smooth flicker free linear dimming down to 1% with most LEDs and a wide variety of compatible dimmers.

0-10V Driver dimming not recommended when using TW/RGB/RGBW controllers.

For use with 24V LED Tapelight.

TLP24VHW20

20W 24V 120VAC: 5-3/4" L x 1-1/2" W x 1-1/4" D

TLP24VHW60

60W 24V 120VAC: 6-1/3" L x 1-3/4" W x 1-1/4" D

TLP24VHW96

96W 24V 120VAC: 8-3/4" L x 2-2/3" W x 1-1/2" D

Quantity



TLP24VHW * -ENC Series

Hardwire Class 2 Enclosed Driver

120VAC/24VDC. Dimmable Class 2 listed driver. Compact self-enclosed driver with two (2) knockouts. Auto Reset and short circuit protection. Dimmable with standard MLV/ Incandescent TRIAC (Leading Edge) dimmers; 8W Min. load required for smooth dimming.

TRIAC Driver dimming not recommended when using TW/RGB/RGBW controllers.

For use with 24V LED Tapelight.

TLP24VHW60MV-ENC

60W 24V 120-277VAC, Non-Dimming Driver

TLP24VHW60MVD2-ENC

60W 24V 120-277VAC, 0-10V Dimming Driver

TLP24VHW96MV-ENC

96W 24V 120-277VAC, Non-Dimming Driver

TLP24VHW96MVD2-ENC

96W 24V 120-277VAC, 0-10V Dimming Driver

Quantity

TLP24VHW20-ENC

20W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

TLP24VHW60-ENC

60W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

TLP24VHW96-ENC

96W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D

TLP24VHW96-ENC277V

96W 24V 277VAC: 10" L x 3" W x 3" D

Quantity



L3D0 Series

Hardwire Hi-Lume Premier Driver

Enclosed Class 2 96W Constant Voltage Driver with dimming down to 0.1% with compatible controls. Universal 120 - 277VAC input. Output wattage range 25-96W.

For use with 24V LED Tapelight.

L3D0-96W24V-U

96W 24V 120-277VAC: 5.5" W x 2" H x 10.5" L

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

Plug-and-Play Power Connectors



TLCEXT Series

Plug-and-Play Power Supply Extension

Includes male and female plug connectors.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series



TLCIP Series

Static Color Male Power Connector

Includes one (1) male plug connector and one (1) male flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCEXT24 - 24 IN

TLCEXT48 - 48 IN

Quantity

TLCEXT36 - 36 IN

TLCEXT96 - 96 IN

TLCIP12 - 12 IN

TLCIP19 - 19 IN

Quantity



TLCS2

Plug-and-Play 2-Way Splitter

Includes one (1) male and two (2) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series



TLCOP12

Static Color Female Power Connector

12 In. connector includes one (1) male plug connector and one (1) female flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCS2 - 12V/24V Plug-and-Play 2-Way Splitter

Quantity

TLCOP - 12 Inch 12V/24V Static Color Female Power Connector

Quantity



TLCS3

Plug-and-Play 3-Way Splitter

Includes one (1) male and three (3) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series

TLCS3 - 12V/24V Plug-and-Play 3-Way Splitter

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

Hardwire Power Connectors



TLCCF

Female Connector

6 Inch long connector includes a wire pigtail end and a female plug connector on the other end. Used to add plug and play female connector to hardwire power supplies.
Use with 12V or 24V Performance LED Tapelight

TLCCF - 12V/24V Hardwire Female Connector

Quantity



TLCIP * HW Series

Male Power Connector

Includes wire pigtail end and one (1) male flex tape connector.
Use with 12V or 24V Performance LED Tapelight

TLCIP12HW - 12 IN

TLCIP19HW - 19 IN

Quantity

TLCIP19HW-12AWG10FT

19 IN Connector with Additional 10 Ft 12AWG Red & Black Wires

TLCIP19HW-12AWG20FT

19 IN Connector with Additional 20 Ft 12AWG Red & Black Wires



TLCCM

Male Connector

6 Inch long connector includes a wire pigtail end and a male plug connector on the other end. Used for easy plug in connection to plug and play power supply and wire end can be connected to RGB controller at the screw terminals.
Use with 12V or 24V Performance LED Tapelight

TLCCM - 12V/24V Hardwire Male Connector

Quantity



TLCOP12HW

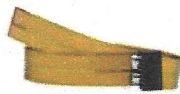
Female Power Connector

12 In. connector includes wire pigtail end and one (1) female flex tape connector.
Use with 12V or 24V Performance LED Tapelight

TLCOPHW - 12 IN 12V/24V Hardwire
Female Power Connector

Quantity

Linear Connectors



TLCM Series

Bridge Connector

Blank section used to bridge gaps where LEDs are not necessary.
Use with 12V or 24V Performance LED Tapelight

TLCM2 - 2 IN

TLCM6 - 6 IN

Quantity

TLCM12 - 12 IN



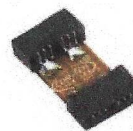
TLCX

Cross Connector

Used to connect up to four (4) TLT segments. May be cut to create 2-way "L" connection or 3-way "T" connection.
Use with 12V or 24V Performance LED Tapelight

TLCX - 12V/24V Cross Connector

Quantity



TLCFF

Short Female-to-Female Connector

Used to connect male tapelight ends (when tapelight is cut two male ends remain)
Use with 12V or 24V Performance LED Tapelight

TLCFF - 12V/24V Short Female-to-Female Connector

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V TLT Series Static Color Controllers



TLPRTW
4-Channel Power Repeater
 Enables synchronized control of multiple runs from one controller.
 5-5/16" L x 1-3/4" W x 1-1/8" D
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPRTW - 12V/24V LED 4-Channel Power Repeater Quantity



TLPRGBRF
Dimming Controller with RF Remote Control
 Pre-programmed functions include: color strobe, 3-channel color change and gradual brightness change. Includes two (2) programmable presets. Use with non-dimming tapelight power supplies. Not rated for outdoor use.
 8-3/8" L x 1-5/8" W x 1-3/16" D
 Use with 12V or 24V Performance LED Tapelight

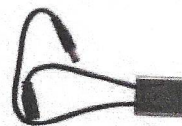
TLPRGBRF - 12V/24V Dimming Controller with RF Remote Control Quantity



TLPINT
DMX 512 CV Decoder
 Designed to convert universal DMX 512 signal to PWM signal when used with a DMX 512 console (by others). Use with non-dimming tapelight power supplies.
 Not UL listed for outdoor use.
 6-3/16" L x 3-1/8" W x 1-5/8" D
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPINT - 12V/24V DMX 512 CV Decoder Quantity

IR Controllers



TLPICB
IR Cabinet Switch
 Allows on/off switching functionality for use with cabinet doors. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight

TLPICB - 12V/24V IR Cabinet Switch Quantity



TLPIWV
IR Wireless Waving Switch
 Allows wireless on/off switching functionality by waving an object within the IR field. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight

TLPIWV - 12V/24V IR Wireless Waving Switch Quantity



TLPDIM10V
Static Color 0-10V Dimming Module
 For use with standard 0-10V dimmers. Dimming down to 15%. Not UL listed for outdoor use. Use with non-dimming tapelight power supplies.
 4-3/4" L x 1-1/2" W x 1-1/2" D
 For use with 12V or 24V Static Color Performance LED Tapelight
 Not compatible with 12V or 24V TW, RGB or RGBW Performance LED Tapelight

TLPDIM10V - 12V/24V Static Color 0-10V Dimming Module Quantity



TLPIDM
Tapelight Touch Dimmer
 Allows adjustment of the brightness of the LEDs by touching the controller housing. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight
 Not compatible with TW, RGB or RGBW Performance LED Tapelight

TLPIDM - 12V/24V Tapelight Touch Dimmer Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

Product Details

Aluminum Mounting Channel

- Provides excellent heat sinking and protection to the LEDs while ensuring a clean, straight run
- 6 Ft long, Silver or Black Aluminum
- Outdoor/Wet listed Performance LED Tapelight is not compatible with channel end caps or diffusion lenses, except when using the Deep Standard Channel

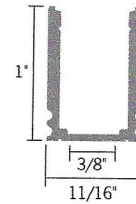
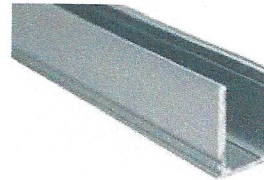
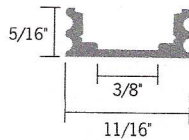
Channel Mounting Clips

- Four (4) Mounting clips and four (4) Philips head screws per package
- 24 Inches between clips recommended for most applications
- Stainless Steel

Channel End Caps

- Creates a clean finish to the mounting channel
- Two (2) end caps: one open, one closed
- ABS Plastic

Standard and Deep Mounting Channels



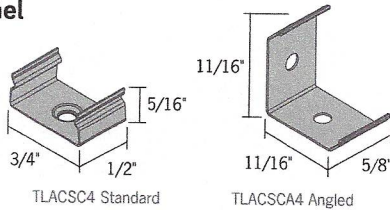
TLACS6 - 6 Ft Standard Channel, Aluminum
TLACS6-B - 6 Ft Standard Channel, Black

Quantity

TLAC8T6 - 6 Ft Deep Standard Channel, Aluminum
TLAC8T6-B - 6 Ft Deep Standard Channel, Black

Quantity

Standard and Deep Channel Mounting Clips



TLACSC4 Standard

TLACSCA4 Angled

TLACSC4 - Four Standard Channel Mounting Clips
TLACSCA4 - Four Standard Channel Angled Mounting Clips

Quantity

Standard and Deep Channel End Caps



TLAC8TE2 Deep

TLACSE2 Standard

TLACSE2 - Two Standard Channel End Caps, Grey
TLACSE2-B - Two Standard Channel End Caps, Black
TLAC8TE2 - Two Deep Channel End Caps, Grey
TLAC8TE2-B - Two Deep Channel End Caps, Black

Quantity

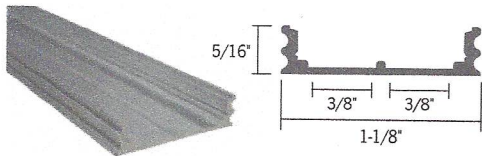
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

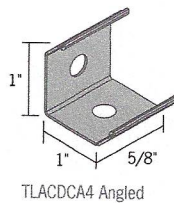
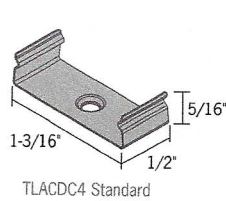
Double Wide Mounting Channel



TLACD6 - 6 Ft Double Wide Channel, Aluminum
TLACD6-B - 6 Ft Double Wide Channel, Black

Quantity

Double Wide Channel Mounting Clips



Double Wide Channel End Caps



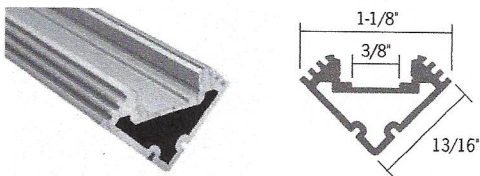
TLACDC4 - Four Double Wide Standard Mounting Clips
TLACDCA4 - Four Double Wide Angled Mounting Clips

Quantity

TLACDE2 - Two Double Wide End Caps, Grey
TLACDE2-B - Two Double Wide End Caps, Black

Quantity

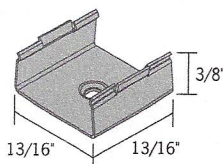
45° Angled Mounting Channel



TLACA6 - 6 Ft 45° Angled Channel, Aluminum
TLACA6-B - 6 Ft 45° Angled Channel, Black

Quantity

45° Angled Channel Mounting Clips



45° Angled Channel End Caps



TLACAC4 - Four Angled Channel Mounting Clips

Quantity

TLACAE2 - Two Angled Channel End Caps, Grey
TLACAE2-B - Two Angled Channel End Caps, Black

Quantity

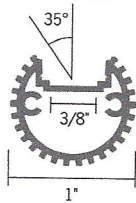
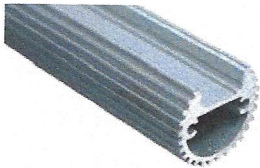
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

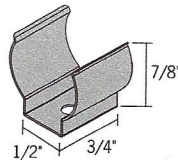
Round Mounting Channel



TLAC06 - 6 Ft Round Channel, Aluminum
TLAC06-B - 6 Ft Round Channel, Black

Quantity

Round Channel Mounting Clips



Round Channel End Caps



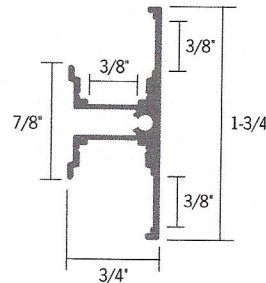
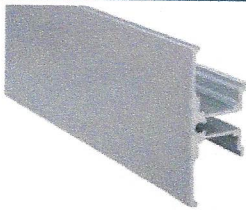
TLAC0C4 - Four Round Mounting Clips

Quantity

TLAC0E2 - Two Round End Caps, Grey
TLAC0E2-B - Two Round End Caps, Black

Quantity

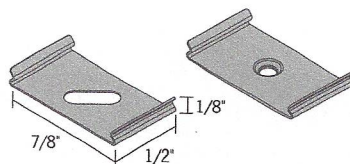
Wall Mount "T" Mounting Channel



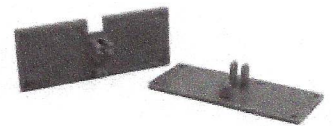
TLACT6 - 6 Ft Wall Mount "T" Channel, Aluminum
TLACT6-B - 6 Ft Wall Mount "T" Channel, Black
TLACT6-P - 6 Ft Wall Mount "T" Channel, White

Quantity

Wall Mount "T" Channel Mounting Clips



Wall Mount "T" Channel End Caps



TLACTC4 - Four Wall Mount "T" Channel Mounting Clips

Quantity

TLACTE2 - Two Wall Mount "T" End Caps, Grey
TLACTE2-B - Two Wall Mount "T" End Caps, Black
TLACTE2-P - Two Wall Mount "T" End Caps, White

Quantity

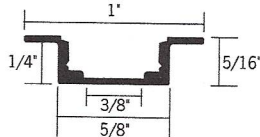
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

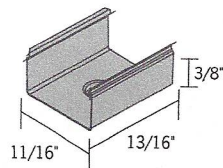
Recessed Mounting Channel



TLACR6 - 6 Ft Recessed Mounting Channel, Aluminum
TLACR6-B - 6 Ft Recessed Mounting Channel, Black

Quantity

Recessed Channel Mounting Clips



Recessed Channel End Caps



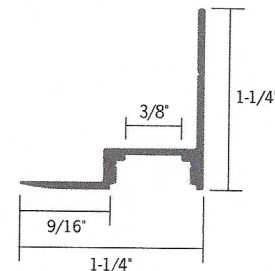
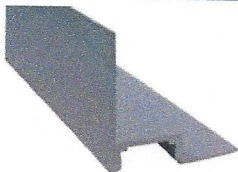
TLACRC4 - Four Recessed Mounting Clips

Quantity

TLACRE2 - Two Recessed End Caps, Grey
TLACRE2-B - Two Recessed End Caps, Black

Quantity

Ceiling Edge Mounting Channel



TLACE6 - 6 Ft Ceiling Edge Channel, Aluminum
TLACE6-B - 6 Ft Ceiling Edge Channel, Black
TLACE6-P - 6 Ft Ceiling Edge Channel, White

Quantity

Ceiling Edge Channel Mounting Clips

Mounting clips are not available for the Ceiling Edge Mount Mounting Channel
 Mount the channel by drilling holes through channel and mounting surface and screwing into place

Ceiling Edge Channel End Caps

End caps are not available for the Ceiling Edge Mount Mounting Channel

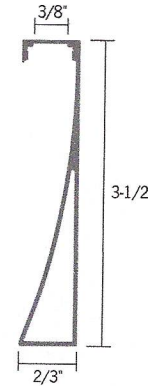
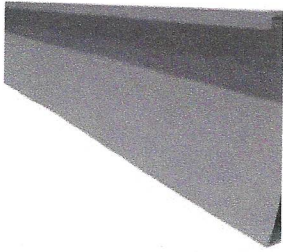
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

Toe Kick Mounting Channel

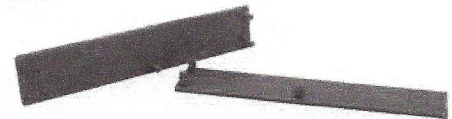


- | | |
|---|----------|
| TLACK6 - 6' Toe Kick Channel, Aluminum | Quantity |
| TLACK6-B - 6' Toe Kick Channel, Black | |
| TLACK6-P - 6' Toe Kick Channel, White | |

Toe Kick Channel Mounting Clips

Mounting clips are not available for the Toe Kick Mounting Channel
Mount the channel by using construction adhesive or 3M™ VHB™ tape

Toe Kick Channel End Caps



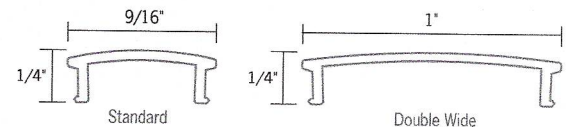
- | | |
|---|----------|
| TLACKE2 - Toe Kick End Caps, Grey | Quantity |
| TLACKE2-B - Toe Kick End Caps, Black | |
| TLACKE2-P - Toe Kick End Caps, White | |

Diffusion Lenses



- Use with mounting channels
- Provides extra protection for the LEDs as well as diffusion to reduce glare

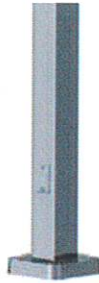
- | | |
|--|----------|
| TLALC6 - 6 Ft Clear Lens | Quantity |
| TLALF6 - 6 Ft Frosted Lens | |
| TLALCD6 - 6 Ft Double Wide Clear Lens | |
| TLALFD6 - 6 Ft Double Wide Frosted Lens | |





Steel Poles

Square Straight



QUICK LINKS

FEATURES & SPECIFICATIONS

Pole Shaft

- Straight poles are 4", 5", or 6" square.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi.
- On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional.

Anchor Bolts

- Anchor bolts can be made available featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor Bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 PSI.

Ground Lug

- Ground lug is standard.

Duplex Receptacle

- Weatherproof duplex receptacle is optional.

Ground Fault Circuit Interrupter

- Self-testing Ground fault circuit interrupter is optional.

Finishes

- Every pole is provided with the DuraGrip Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip Plus Protection System is selected, in addition to the DuraGrip Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information.
- Select bracket configuration if required
- Determine EPA value from luminaire/ bracket EPA chart

- Select Pole Height
- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets.

Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

Listings

- UL Listed
- BAA/TAA Compliant



Steel Poles Square Straight



Type : _____

 Have questions? Call us at (800) 436-7800

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: 4SQ B3 S11G 24 S PLP DGP						
Pole Series	Mounting Method	Material	Height ²	Mounting Configuration	Pole Finish	Options
4SQ - 4" x 4" Square Straight Pole (New Build) 5SQ - 5" x 5" Square Straight Pole (New Build) 6SQ - 6" x 6" Square Straight Pole (New Build) 4SQU - 4" x 4" Square Straight Pole (Retrofit) 5SQU - 5" x 5" Square Straight Pole (Retrofit) 6SQU - 6" x 6" Square Straight Pole (Retrofit)	Bolt-On Mount¹ - See pole selection guide for patterns and fixture matches B5 - 5" Traditional Drilling Pattern B3 - 3" Reduced Drilling Pattern B2 - 2" Reduced Drilling Pattern T - Tenon Mount - See pole selection guide for tenon and fixture/bracket matches I - No Mounting Holes ³	S11G - 11 Ga. Steel (4SQ/4SQU and 5SQ/5SQU Only) S07G - 07 Ga. Steel	8' 10' 12' 13' 14' 15' 16' 17' 17'6" 18' 20' 22' 22'6" 23' 24' 25' 26' 27' 28' 30' 32' 35' 39'	S - Single/Parallel D180 - Double D90 - Double DN90 - Double T90 - Triple TN120 - Triple Q90 - Quad QN90 - Quad N - Tenon Mount (Standard Tenon size is 2-3/8" O.D.) ⁸ (Blank) - Use with I for Mounting Method	BRZ - Bronze BLK - Black PLP - Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver BZA - Alternate Bronze	GA - Galvanized Anchor Bolts SF - Single Flood ⁵ DF - Double Flood ⁵ DGP - DuraGrip ⁶ Plus LAB - Less Anchor Bolts CRXX - Conduit Raceway ⁴

 <p>Need more information? Click here for our glossary.</p>	<p>Have additional questions? Call us at (800) 436-7800 </p>
---	---

ACCESSORY ORDERING INFORMATION

Part Number	Description
122559CLR	4BC - 4" Square Base Cover
122561CLR	5BC - 5" Square Base Cover
122563CLR	6BC - 6" Square Base Cover
132488CLR	5BC - 5" Square Universal Base Cover
131252CLR	6BC - 6" Square Universal Base Cover
122566CLR	ER2 - Weatherproof Duplex Receptacle
122567CLR	GFI - Ground Fault Circuit Interrupter
132336	MH5 - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs)
681126	MH3 - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)
725841	MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)
172539	Vibration Damper - 4" Square Pole (bolt-on mount only)
172538	Vibration Damper - 5" Square Pole (bolt-on mount only)
178361	Vibration Damper - 6" Square Pole (bolt-on mount only)

1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern Spec Sheets.
2 - Pole heights will have +/- 1/2" tolerance.

3 - See Flood Lighting Brackets section for choice of FBO brackets.

4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order.

Steel Poles Square Straight

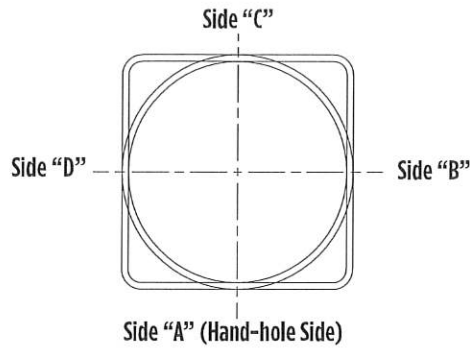
Type: _____

 Have questions? Call us at (800) 436-7800

DRILLING LOCATIONS

[Back to Quick Links](#)

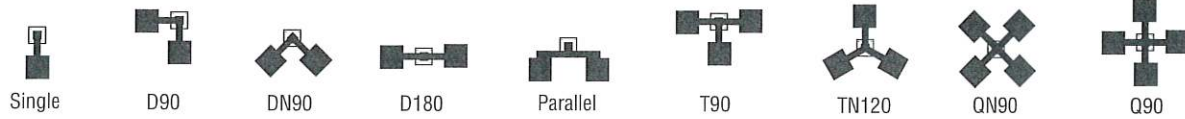
Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180		X		X
D90	X			X
DN90 ¹				
T90	X	X		X
TN120 ²				
Q90	X	X	X	X
QN90 ³				
Single FBO	X			
Double FBO		X		X



- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

FIXTURE CONFIGURATIONS



Single

D90

DN90

D180

Parallel

T90

TN120

QN90

Q90



Steel Poles Square Straight

Type : _____

 Have questions? Call us at (800) 436-7800

BOLT CIRCLE

[Back to Quick Links](#)

STANDARD BASEPLATE

4" (102mm) square
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

5" (127mm) square
10-1/8" (257mm) sq.



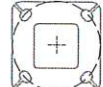
11" (279mm) Dia. Bolt Circle

5" (127mm) square
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

6" (152mm) square
12" (305mm) sq.



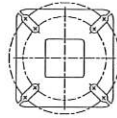
12" (305mm) Dia. Bolt Circle

Bolt Circle Designator	B	C	D	J
Bolt Circle	Slotted 8"-11" (203mm-279mm)	Slotted 9"-11" (229mm-279mm)	Slotted 9"-11" (229mm-279mm)	Slotted 12" (305mm)
Anchor Bolt Size	3/4" x 24" (19mm x 609mm)	3/4" x 24" (19mm x 609mm)	1" x 36" (25mm x 914mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)	5-5/8" (143mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)	12" sq. x 1-1/8" thk. (305mm x 29mm)
Pole Gauge	11	11	7	7

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

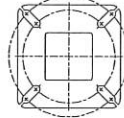
UNIVERSAL BASEPLATE

4" (102mm) square
10.5" (267mm) sq.



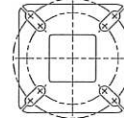
4SQ

5" (127mm) square
11.125" (283mm) sq.



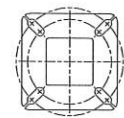
5SQ

5" (127mm) square
11.75" (298mm) sq.



5SQ

6" (152mm) square
12-1/2" (318mm) sq.



14" (356mm) Dia. Bolt Circle

Bolt Circle Designator	E	F	G	H
Bolt Circle	Slotted 9"-12"	Slotted 10-13"	Slotted 10-13"	Slotted 11"-14" (279mm-356mm)
Anchor Bolt Size	3/4" x 24" (19mm x 609 mm)	3/4" x 24" (19mm x 609 mm)	1x 36" (25mm x 914 mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83 mm)	3-1/4" (83 mm)	4" (102 mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	5-1/8" (130 mm)	5-5/8" (143mm)
Base Plate Dimensions	10-1/2" sq. x 3/4" thk. (267 mm x 19 mm)	11-1/8 sq. x 3/4" thk. (283 mm x 19 mm)	11-3/4" sq. x 1" thk. (298 mm x 25 mm)	12 1/2" sq. x 1 1/8" thk. (318mm x 29mm)
Pole Gauge	11	11	7	7

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.



Steel Poles Square Straight

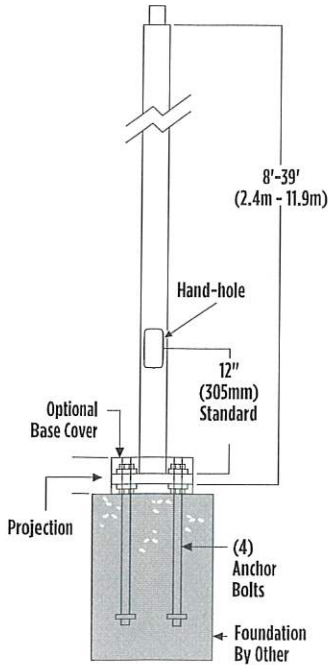
Type : _____

 Have questions? Call us at (800) 436-7800

PRODUCT DIMENSIONS

[Back to Quick Links](#)

SQT -
N= 2-3/8" (60mm) O.D. x 4-3/4" (121mm) Tenon



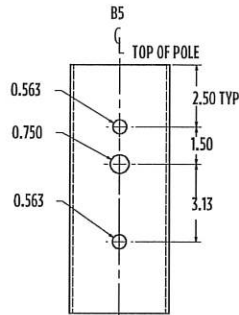
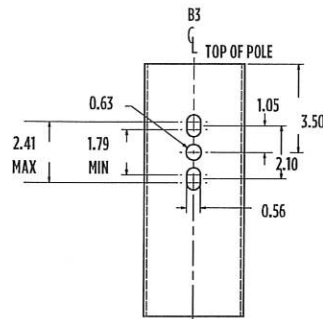
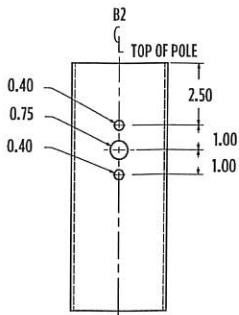
SF -
Single Flood
Pole Preparation



SHIPPING WEIGHTS


4" (102mm) sq. 11 Ga. is approximately	7.50 lbs./ft.
4" (102mm) sq. 07 Ga. is approximately	10.00 lbs./ft.
5" (127mm) sq. 11 Ga. is approximately	9.00 lbs./ft.
5" (127mm) sq. 07 Ga. is approximately	12.50 lbs./ft.
6" (152mm) sq. 07 Ga. is approximately	15.40 lbs./ft.
Anchor Bolts (3/4" x 24")(19mm x 609mm)	15 lbs. (7kg)/set
Anchor Bolts (1" x 36")(25mm x 914mm)	30 lbs. (14kg)/set

Bolt-On Mount 2-Bolt Pattern



Steel Poles Square Straight

Type : _____

 Have questions? Call us at (800) 436-7800

WIND SPEED

[Back to Quick Links](#)

EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

POLE ²	Mtg. Height Length (ft)	Wall Thick (ga)	BOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor bolt Dia {in}	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
4" x 11-ga x 12'	12	11	B	8" - 11"	0.75	13.9	12.5	11.3	9.2	7.6	6.3	5.2	4.3	3.6
4" x 11-ga x 14'	14	11	B	8" - 11"	0.75	10.7	9.5	8.5	6.8	5.4	4.4	3.5	2.7	2.1
4" x 11-ga x 16'	16	11	B	8" - 11"	0.75	8.2	7.2	6.4	4.9	3.8	2.9	2.1	1.5	1.0
4" x 11-ga x 18'	18	11	B	8" - 11"	0.75	6.3	5.4	4.7	3.4	2.4	1.6	1.0	0.4	n/a
4" x 11-ga x 20'	20	11	B	8" - 11"	0.75	4.6	3.9	3.2	2.1	1.2	0.6	n/a	n/a	n/a
4" x 11-ga x 22'	22	11	B	8" - 11"	0.75	7.6	6.6	5.7	4.2	3.0	2.0	1.2	0.5	n/a
4" x 11-ga x 24'	24	11	B	8" - 11"	0.75	6.0	5.1	4.3	2.9	1.8	0.9	n/a	n/a	n/a
4" x 11-ga x 26'	26	11	B	8" - 11"	0.75	4.6	3.7	3.0	1.7	0.7	n/a	n/a	n/a	n/a
4" x 7-ga x 14'	14	7	B	8" - 11"	0.75	18.3	16.4	14.9	12.2	10.2	8.5	7.1	5.9	5.0
4" x 7-ga x 16'	16	7	B	8" - 11"	0.75	14.7	13.2	11.8	9.6	7.8	6.3	5.2	4.2	3.4
4" x 7-ga x 18'	18	7	B	8" - 11"	0.75	11.9	10.5	9.3	7.4	5.9	4.6	3.6	2.8	2.1
4" x 7-ga x 20'	20	7	B	8" - 11"	0.75	9.6	8.4	7.4	5.7	4.3	3.2	2.3	1.6	0.9
4" x 7-ga x 22'	22	7	B	8" - 11"	0.75	7.7	6.6	5.7	4.2	3.0	2.0	1.2	0.5	n/a
4" x 7-ga x 24'	24	7	B	8" - 11"	0.75	6.0	5.1	4.3	2.9	1.8	0.9	n/a	n/a	n/a
4" x 7-ga x 26'	26	7	B	8" - 11"	0.75	4.6	3.7	3.0	1.7	0.7	n/a	n/a	n/a	n/a
4" x 7-ga x 28' ²	28	7	B	8" - 11"	0.75	3.3	2.5	1.8	0.7	n/a	n/a	n/a	n/a	n/a
4" x 7-ga x 30' ²	30	7	B	8" - 11"	0.75	2.2	1.4	0.8	n/a	n/a	n/a	n/a	n/a	n/a
5" x 11-ga x 14'	14	11	C	9" - 11"	0.75	17.4	15.7	14.1	11.5	9.3	7.7	6.3	5.2	4.2
5" x 11-ga x 16'	16	11	C	9" - 11"	0.75	13.8	12.3	10.9	8.7	6.9	5.5	4.3	3.3	2.5
5" x 11-ga x 18'	18	11	C	9" - 11"	0.75	10.8	9.6	8.4	6.5	4.9	3.7	2.6	1.8	1.1
5" x 11-ga x 20'	20	11	C	9" - 11"	0.75	8.5	7.3	6.3	4.6	3.2	2.1	1.2	0.5	n/a
5" x 11-ga x 22'	22	11	C	9" - 11"	0.75	10.9	9.5	8.3	6.2	4.5	3.2	2.1	1.2	0.5
5" x 11-ga x 24'	24	11	C	9" - 11"	0.75	8.8	7.5	6.4	4.5	3.0	1.8	0.8	n/a	n/a
5" x 11-ga x 26'	26	11	C	9" - 11"	0.75	6.8	5.7	4.6	3.0	1.6	0.6	n/a	n/a	n/a
5" x 11-ga x 28'	28	11	C	9" - 11"	0.75	5.2	4.1	3.2	1.6	0.4	n/a	n/a	n/a	n/a
5" x 11-ga x 30'	30	11	C	9" - 11"	0.75	3.6	2.7	1.8	0.4	n/a	n/a	n/a	n/a	n/a
5" x 7-ga x 20'	20	7	D	9" - 11"	1.00	21.6	19.3	17.3	14.0	11.3	9.2	7.4	6.0	4.8
5" x 7-ga x 22'	22	7	D	9" - 11"	1.00	20.7	18.6	16.6	13.3	10.7	8.5	6.8	5.4	4.2
5" x 7-ga x 24'	24	7	D	9" - 11"	1.00	17.7	15.6	13.8	10.8	8.5	6.6	5.0	3.7	2.6
5" x 7-ga x 26'	26	7	D	9" - 11"	1.00	14.9	13.1	11.4	8.8	6.6	4.9	3.5	2.3	1.3
5" x 7-ga x 28'	28	7	D	9" - 11"	1.00	12.5	10.9	9.4	6.9	4.9	3.4	2.1	1.0	n/a
5" x 7-ga x 30'	30	7	D	9" - 11"	1.00	10.3	8.9	7.5	5.2	3.4	2.0	0.8	n/a	n/a
5" x 7-ga x 35'	35	7	D	9" - 11"	1.00	6.0	4.8	3.6	1.8	n/a	n/a	n/a	n/a	n/a
6" x 7-ga x 24'	24	7	J	12"	1.00	18.6	16.4	14.3	11.2	8.6	6.5	4.8	3.4	2.2
6" x 7-ga x 26'	26	7	J	12"	1.00	15.6	13.4	11.7	8.8	6.5	4.6	3.0	1.8	0.7
6" x 7-ga x 28'	28	7	J	12"	1.00	12.9	10.9	9.3	6.7	4.6	2.8	1.5	n/a	n/a
6" x 7-ga x 30'	30	7	J	12"	1.00	10.4	8.8	7.3	4.8	2.9	1.3	n/a	n/a	n/a
6" x 7-ga x 32'	32	7	J	12"	1.00	8.3	6.8	5.5	3.1	1.3	n/a	n/a	n/a	n/a
6" x 7-ga x 34'	34	7	J	12"	1.00	6.5	5.0	3.7	1.6	n/a	n/a	n/a	n/a	n/a
6" x 7-ga x 35'	35	7	J	12"	1.00	5.5	4.2	2.9	0.9	n/a	n/a	n/a	n/a	n/a
6" x 7-ga x 39'	39	7	J	12"	1.00	2.3	1.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Steel Poles Square Straight

Type : _____

 Have questions? Call us at (800) 436-7800

WIND SPEED

POLE	Mtg. Height Length (ft)	Wall Thick (ga)	BOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor Bolt Dia (in)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
5" x 11-ga x 14'	14	11	F	11"	0.75	17.6	15.8	14.2	11.5	9.4	7.7	6.3	5.2	4.3
5" x 11-ga x 14'	14	11	F	13"	0.75	17.6	15.8	14.2	11.5	9.4	7.7	6.3	5.2	4.3
5" x 11-ga x 16'	16	11	F	11"	0.75	13.9	12.2	11.0	8.8	7.0	5.5	4.3	3.4	2.5
5" x 11-ga x 16'	16	11	F	13"	0.75	13.9	12.2	11.0	8.8	7.0	5.5	4.3	3.4	2.5
5" x 11-ga x 18'	18	11	F	11"	0.75	11.0	9.6	8.4	6.5	5.0	3.7	2.7	1.8	1.1
5" x 11-ga x 18'	18	11	F	13"	0.75	11.0	9.6	8.4	6.5	5.0	3.7	2.7	1.8	1.1
5" x 11-ga x 20'	20	11	F	11"	0.75	8.6	7.4	6.4	4.6	3.3	2.2	1.3	0.5	-
5" x 11-ga x 20'	20	11	F	13"	0.75	8.6	7.4	6.4	4.6	3.3	2.2	1.3	0.5	-
5" x 11-ga x 22'	22	11	F	11"	0.75	12.7	11.1	9.6	7.4	5.6	4.1	3.0	2.0	1.1
5" x 11-ga x 22'	22	11	F	12"	0.75	10.3	8.9	7.7	5.7	4.1	2.8	1.8	0.9	-
5" x 11-ga x 22'	22	11	F	13"	0.75	8.6	7.4	6.4	4.6	3.1	2.0	1.1	-	-
5" x 11-ga x 24'	24	11	F	11"	0.75	10.2	8.9	7.6	5.6	4.0	2.6	1.6	0.7	-
5" x 11-ga x 24'	24	11	F	12"	0.75	8.0	6.9	5.8	4.0	2.6	1.5	0.5	-	-
5" x 11-ga x 24'	24	11	F	13"	0.75	6.7	5.5	4.6	3.0	1.7	0.7	-	-	-
5" x 11-ga x 26'	26	11	F	11"	0.75	8.1	6.9	5.8	4.0	2.5	1.3	-	-	-
5" x 11-ga x 26'	26	11	F	12"	0.75	6.2	5.1	4.1	2.6	1.3	-	-	-	-
5" x 11-ga x 26'	26	11	F	13"	0.75	5.0	4.0	3.1	1.6	0.5	-	-	-	-
5" x 11-ga x 28'	28	11	F	11"	0.75	6.3	5.2	4.3	2.5	1.1	-	-	-	-
5" x 11-ga x 28'	28	11	F	12"	0.75	4.6	3.6	2.7	1.2	-	-	-	-	-
5" x 11-ga x 28'	28	11	F	13"	0.75	3.4	2.5	1.7	-	-	-	-	-	-
5" x 11-ga x 30'	30	11	F	11"	0.75	4.7	3.7	2.8	1.2	-	-	-	-	-
5" x 11-ga x 30'	30	11	F	12"	0.75	3.1	2.2	1.4	-	-	-	-	-	-
5" x 11-ga x 30'	30	11	F	13"	0.75	2.0	1.2	0.5	-	-	-	-	-	-
5" x 7-ga x 20'	20	7	G	11"	0.75	19.0	17.0	15.0	12.2	9.7	7.8	6.2	5.0	3.8
5" x 7-ga x 20'	20	7	G	12"	0.75	21.4	19.1	17.1	13.8	11.2	9.1	7.3	5.9	4.7
5" x 7-ga x 20'	20	7	G	13"	0.75	21.4	19.2	17.2	13.9	11.3	9.2	7.4	6.0	4.8
5" x 7-ga x 20'	20	7	G	11"	1	21.7	19.4	17.4	14.0	11.4	9.3	7.5	6.0	4.8
5" x 7-ga x 20'	20	7	G	13"	1	21.7	19.4	17.4	14.0	11.4	9.3	7.5	6.0	4.8
5" x 7-ga x 22'	22	7	G	11"	0.75	16.0	14.1	12.5	9.8	7.6	5.9	4.4	3.3	2.3
5" x 7-ga x 22'	22	7	G	12"	0.75	17.7	15.9	14.2	11.2	8.7	7.0	5.4	4.1	3.0
5" x 7-ga x 22'	22	7	G	13"	0.75	19.9	17.3	15.6	12.6	10.0	8.0	6.3	5.0	3.8
5" x 7-ga x 22'	22	7	G	11"	1	21.0	18.7	16.7	13.4	10.6	8.5	6.8	5.4	4.2
5" x 7-ga x 22'	22	7	G	12"	1	23.4	20.6	18.4	15.0	12.2	9.9	8.0	6.4	5.1
5" x 7-ga x 22'	22	7	G	13"	1	21.3	18.8	17.0	13.7	11.0	8.8	7.0	5.6	4.3
5" x 7-ga x 24'	24	7	G	11"	0.75	13.3	11.6	10.0	7.7	5.7	4.2	2.9	1.9	1.0
5" x 7-ga x 24'	24	7	G	12"	0.75	15.0	13.0	11.6	8.9	6.8	5.1	3.8	2.6	1.7
5" x 7-ga x 24'	24	7	G	13"	0.75	16.6	14.6	12.9	10.2	8.0	6.1	4.6	3.3	2.3
5" x 7-ga x 24'	24	7	G	11"	1	17.5	15.7	13.9	10.9	8.6	6.7	5.0	3.7	2.7
5" x 7-ga x 24'	24	7	G	12"	1	20.0	17.4	15.4	12.3	9.9	7.8	6.0	4.7	3.5
5" x 7-ga x 24'	24	7	G	13"	1	18.1	16.0	14.2	11.0	8.7	6.7	5.3	3.9	2.8
5" x 7-ga x 26'	26	7	G	11"	0.75	10.9	9.3	8.0	5.9	4.1	2.7	1.6	0.6	-
5" x 7-ga x 26'	26	7	G	12"	0.75	12.4	10.9	9.5	7.0	5.1	3.6	2.3	1.3	-
5" x 7-ga x 26'	26	7	G	13"	0.75	14.0	12.3	10.7	8.1	6.0	4.4	3.1	2.0	1.0
5" x 7-ga x 26'	26	7	G	11"	1	15.0	13.2	11.5	8.8	6.7	4.9	3.5	2.3	1.3

Steel Poles Square Straight

Type: _____

 Have questions? Call us at (800) 436-7800

WIND SPEED

POLE ¹	Mtg. Height Length (ft)	Wall Thick (ga)	BOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor Bolt Dia (in)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
5" x 7-ga x 26'	26	7	G	12"	1	17.0	14.8	13.0	10.2	7.9	6.0	4.4	3.1	2.1
5" x 7-ga x 26'	26	7	G	13"	1	15.3	13.5	11.8	9.0	6.8	5.0	3.6	2.5	1.4
5" x 7-ga x 28'	28	7	G	11"	0.75	8.9	7.4	6.3	4.3	2.7	1.4	-	-	-
5" x 7-ga x 28'	28	7	G	12"	0.75	10.2	8.8	7.5	5.3	3.5	2.1	1.0	-	-
5" x 7-ga x 28'	28	7	G	13"	0.75	11.8	10.2	8.8	6.4	4.5	3.0	1.7	0.7	-
5" x 7-ga x 28'	28	7	G	11"	1	12.5	10.9	9.5	7.0	5.0	3.3	2.1	1.0	-
5" x 7-ga x 28'	28	7	G	12"	1	14.2	12.4	11.0	8.2	6.0	4.3	3.0	1.7	0.8
5" x 7-ga x 28'	28	7	G	13"	1	12.9	11.0	9.7	7.2	5.2	3.6	2.2	1.1	-
5" x 7-ga x 30'	30	7	G	11"	0.75	7.0	5.8	4.7	2.8	1.3	-	-	-	-
5" x 7-ga x 30'	30	7	G	12"	0.75	8.4	7.0	5.8	3.8	2.2	0.9	-	-	-
5" x 7-ga x 30'	30	7	G	13"	0.75	9.7	8.2	7.0	4.8	3.0	1.6	0.5	-	-
5" x 7-ga x 30'	30	7	G	11"	1	10.4	8.8	7.6	5.3	3.4	2.0	0.8	-	-
5" x 7-ga x 30'	30	7	G	12"	1	12.0	10.3	9.0	6.4	4.4	2.9	1.6	0.5	-
5" x 7-ga x 30'	30	7	G	13"	1	10.6	9.1	7.7	5.5	3.6	2.1	1.0	-	-
5" x 7-ga x 35'	35	7	G	11"	0.75	3.2	2.2	1.2	-	-	-	-	-	-
5" x 7-ga x 35'	35	7	G	12"	0.75	4.4	3.2	2.2	0.5	-	-	-	-	-
5" x 7-ga x 35'	35	7	G	13"	0.75	5.5	4.2	3.1	1.3	-	-	-	-	-
5" x 7-ga x 35'	35	7	G	11"	1	6.0	4.8	3.6	1.8	-	-	-	-	-
5" x 7-ga x 35'	35	7	G	12"	1	7.3	6.0	4.8	2.7	1.1	-	-	-	-
5" x 7-ga x 35'	35	7	G	13"	1	6.3	5.0	3.8	1.9	-	-	-	-	-
6" x 7-ga x 24'	24	7	H	11"	1	16.5	14.4	12.6	9.6	7.2	5.3	3.8	2.5	1.4
6" x 7-ga x 24'	24	7	H	12-1/2"	1	19.8	17.5	15.4	12.0	9.2	7.0	5.3	3.8	2.7
6" x 7-ga x 24'	24	7	H	14"	1	23.0	20.5	18.0	14.3	11.2	8.9	6.9	5.3	3.8
6" x 7-ga x 26'	26	7	H	11"	1	13.7	11.8	10.2	7.5	5.3	3.6	2.1	1.0	-
6" x 7-ga x 26'	26	7	H	12-1/2"	1	16.5	14.6	12.6	9.6	7.0	5.2	3.6	2.2	1.1
6" x 7-ga x 26'	26	7	H	14"	1	19.6	17.3	15.2	11.7	8.9	6.7	5.0	3.5	2.2
6" x 7-ga x 28'	28	7	H	11"	1	11.0	9.3	7.8	5.5	3.5	1.9	0.6	-	-
6" x 7-ga x 28'	28	7	H	12-1/2"	1	13.8	12.0	10.2	7.5	5.2	3.4	1.9	0.7	-
6" x 7-ga x 28'	28	7	H	14"	1	16.4	14.5	12.5	9.4	6.9	4.7	3.2	1.8	0.7
6" x 7-ga x 30'	30	7	H	11"	1	9.0	7.3	6.0	3.6	1.9	0.5	-	-	-
6" x 7-ga x 30'	30	7	H	12-1/2"	1	11.4	9.6	8.0	5.5	3.4	1.7	-	-	-
6" x 7-ga x 30'	30	7	H	14"	1	14.0	12.0	10.0	7.2	5.0	3.2	1.6	-	-
6" x 7-ga x 32'	32	7	H	11"	1	7.0	5.5	4.2	2.0	-	-	-	-	-
6" x 7-ga x 32'	32	7	H	12-1/2"	1	9.2	7.6	6.0	3.8	1.8	-	-	-	-
6" x 7-ga x 32'	32	7	H	14"	1	11.4	9.7	8.0	5.4	3.2	1.6	-	-	-
6" x 7-ga x 34'	34	7	H	11"	1	5.1	3.7	2.5	0.6	-	-	-	-	-
6" x 7-ga x 34'	34	7	H	12-1/2"	1	7.2	5.6	4.4	2.2	-	-	-	-	-
6" x 7-ga x 34'	34	7	H	14"	1	9.3	7.6	6.2	3.6	1.7	-	-	-	-
6" x 7-ga x 35'	35	7	H	11"	1	4.2	3.0	1.8	-	-	-	-	-	-
6" x 7-ga x 35'	35	7	H	12-1/2"	1	6.2	4.8	3.6	1.4	-	-	-	-	-
6" x 7-ga x 35'	35	7	H	14"	1	8.2	6.6	5.2	2.9	1.0	-	-	-	-
6" x 7-ga x 39'	39	7	H	11"	1	1.0	-	-	-	-	-	-	-	-
6" x 7-ga x 39'	39	7	H	12-1/2"	1	3.0	1.6	0.5	-	-	-	-	-	-
6" x 7-ga x 39'	39	7	H	14"	1	4.6	3.3	2.0	-	-	-	-	-	-



FW: Horn in the west water/sewer service line sizes

1 message

bill@appalarch.com <bill@appalarch.com>

Wed, Jan 8, 2025 at 3:51 PM

To: acrees@mesco.com, Justin Stines <Justin.Stines@townofboone.net>, Todd Moody <Todd.Moody@townofboone.net>

Cc: Mark Freed <Mark.Freed@townofboone.net>, saha.bookkeeper@gmail.com, Skip Greene <gpgjr@gci.build>

All,

See below engineer's response to line sizes serving new restrooms and concessions (**red ink highlighted in yellow**).

I made assumptions regarding plumbing in concessions.

Bill

From: Dean Belk <dbelk@allied-engineers.com>**Sent:** Wednesday, January 8, 2025 3:07 PM**To:** 'Bill Dixon' <bill@appalarch.com>**Subject:** FW: Horn in the west water/sewer service line sizes

Bill,

Please see below.

Thanks

E. Dean Belk, PE



709 E. Catawba St.

Belmont, NC 28012

Office: (704) 399-3943 Ext 201

Direct: (980) 337-4437

Cell: (704) 564-7638

dbelk@allied-engineers.com

From: bill@appalarch.com <bill@appalarch.com>
Sent: Tuesday, January 7, 2025 10:57 AM
To: Dean Belk <dbelk@allied-engineers.com>
Cc: 'Leigh Blevins' <leigh@appalarch.com>; 'Alan Crees' <acrees@mesco.com>
Subject: Horn in the west water/sewer service line sizes

Tuesday, January 7, 2025

Dean,

Following up on Horn in the West new toilet facilities, see the attached plumbing fixture count and floor plan...

We need to know the size of water & sewer lines to serve the new toilet facility and nearby concession stand.

RESTROOMS

16 toilets, 3 urinals and 8 lavs + 4 water fountains and 1 hose bib in at mop sink.

The town wants flush valve toilets.

CONCESSIONS

2 hand sinks, 1 (2-3) compartment sink, ice maker, mop sink w/ hose bib.

1. Will 2" water line be sufficient to serve all of these fixtures or do we need 4" water line.

Restroom – approx. 211 WSFUs, approx. 93 gpm. Our recommendation would be a 2" tap, 2" meter, 2" backflow, and a 2-1/2" domestic line from the backflow to feed both Restrooms and Concessions.

2. Will 4" sewer line be sufficient for restrooms and concessions?

129 DFU. Yes a 4" would suffice, however, some jurisdictions require a 6" to the building. Civil could verify.

Thanks,

Bill

Bill Dixon, Architect

Appalachian Architecture, P.A.

703 West King Street

Suite 201

Boone, NC 28607

(828) 265-2405

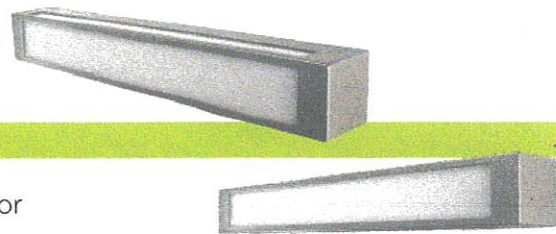
bill@appalarch.com

Viceroy Wet

Architectural Outdoor



EXTERIOR
EL-1 LIGHT FIXTURES
(5) LOCATED ON THE
PICK UP WINDOW SIDE
OF THE BUILDING



The Viceroy Wet encapsulates the convergence of cutting-edge design and superior lighting technology. This streamlined wall-mounted fixture gracefully fits into both modern and classic spaces. With its compact and stylish form, it's especially suited for commercial facades and luxury residential interiors. Architects aiming for a blend of design sophistication and optimal illumination will find the Viceroy Wet to be an unparalleled choice.

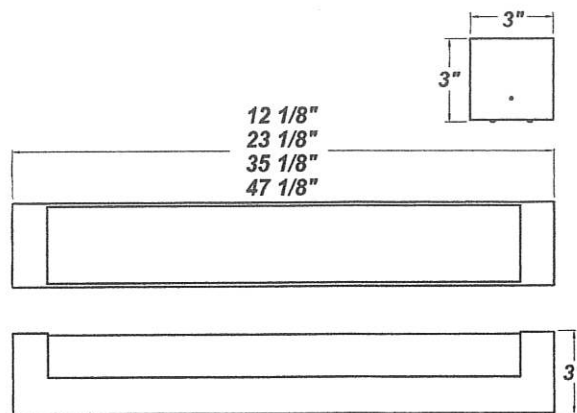
LED Engine

- Color Temp (CCT):** 3000K, 3500K, 4000K
- CRI:** 80+ (consult factory for 90+)
- Life Expectancy:** L70 rated at 50,000+ hours
- Binning:** 3-step Macadam
- Output:** Min 2022 Delivered Lumens
Max 4154 Delivered Lumens

Driver

- Type:** Constant current, Class 2, 120-277 Vac, 50/60Hz
- Dimming:** 0-10V and Phase (Leading or Trailing edge)
- Efficiency:** Min 92%
- Operating Temp:** -40°C / -40°F to 50°C / 122°F
- FCC Noise:** Meets FCC Title 47 EMC Part 15 limits

Dimensions



Certifications

- Location Listing:** Wet Location Rated for Wall Mounting
- Other:** ADA Compliant
Buy America Compliant

AT MAXIMUM OUTPUT
THESE ACCENT FIXTURES
PRODUCE ONLY 3.2 AVG.
FOOTCANDLES

Construction

Mounting Plate: Die-formed aluminium. **Housing:** die-formed aluminium with white acrylic diffuser. **Finish:** high quality polyester powder coating, various finishes. **Mounting:** Wall or ceiling above a 4 inch junction box.

Catalog String

Fixture Core	VCYW	1	2	3	4	UNIV
Aesthetics & Options		6	7	8		

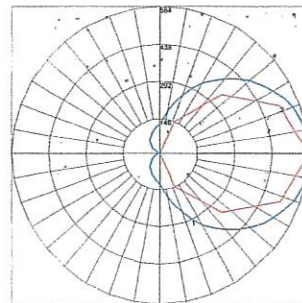
Product Specifications

1 — Product Code	2 — Trim	3 — Wattage	4 — Dimming	5 — Voltage
12 - VCYW12	STD (<i>blank</i>)	L6.0 (12"/LT only)	ZE - 0-10V	UNIV - (120V-277V)
24 - VCYW24	FLO	L12.0 (12"/LT only)	LT - Leading/Trailing Edge	
36 - VCYW36		L13.0 (12"/ZE only)		
48 - VCYW48		L25.0 (26"/ZE only)		
		L30.0 (36"/ZE only)		
		L36.0 (48"/ZE only)		
		L41.2.0 (48"/ZE only)		

6 — Finish	7 — CCT	8 — Options
FBK - Fine Textured Black	30K - 3000K	EB - Integral EM Battery (48"/L36.0 only)
FBZ - Fine Textured Bronze	35K - 3500K	
FWH - Fine Textured White	40K - 4000K	
FSV - Fine Textured Silver		

Performance

Wattage	Delivered Lumens	Efficacy LM/W	CCT	Size
L25.0	2022	81	3000K	24
L36.0	4154	115.3		48



Polar Graph Details:

IES File Name: VCYW24-L20_6-ZE600-SM-3000K.IES

Maximum Candela = 584 Located At
Horizontal Angle = 0, Vertical Angle = 95

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (95) (Through Max. Cd.)

Bug Rating: B0-U4-G2



Slice Medium (SLM)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	9,000 - 55,000
Wattage Range	62 - 436
Efficacy Range (LPW)	114 - 162
Weight lbs(kg)	27 (12.2)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCI

QUICK LINKS

[Ordering Guide](#)

[Performance](#)

[Photometrics](#)

[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 33 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also available in phosphor converted amber with peak intensity at 610nm.
- Minimum CRI of 70
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern. (See drawing in poles section)

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.


Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP66 rated Luminaire per IEC 60598-1.
- 3G rated for ANSI C136.31 high vibration applications applications are qualified.
- IK08 rated luminaire per IEC 66262 mechanical impact code.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)



Slice Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800


ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **SLM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**


Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation ²	Voltage
SLM - Slice Medium	LED	9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms 55L - 55,000 lms Custom Lumen Packages ¹	SIL - Silicone	2 - Type 2 3 - Type 3 4 - Type 4 5W - Type 5 Wide FT - Forward Throw FTA - Forward Throw Automotive AM - Automotive Merchandise LC - Left Corner RC - Right Corner	(blank) - standard (no rotation) L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)

Driver	Color Temperature	Color Rendering	Controls	Finish	Options
DIM - 0-10v Dimming (10-100%)	50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber ¹⁰	70CRI - 70 CRI	(Blank) - None <u>Wireless Controls System</u> ALSC - AirLink Synapse Control System ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ⁴ ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height) ⁴ <u>Stand-Alone Controls</u> EXT - 0-10V Dimming leads extended to housing exterior CR7P - 7 Pin Control Receptacle ANSI C136.41 ⁵ IMSBTL1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH) ⁴ IMSBTL2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH) ⁴ <u>Button Type Photocells</u> PC1120 - 120V PC1208-277 - 208 -277V PC1347 - 347V	BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	(Blank) - None IH - Integral Half Louver (Moderate Spill Light Cutoff) ² IL - Integral Louver (Sharp Spill Light Cutoff) ²



Need more information?
[Click here for our glossary.](#)

Have additional questions?
Call us at (800) 436-7800



Accessory Ordering Information⁶

CONTROLS ACCESSORIES	
Description	Order Number
Twist Lock Photocell (120V) for use with CR7P	122514
Twist Lock Photocell (208-277) for use with CR7P	122515
Twist Lock Photocell (347V) for use with CR7P	122516
Twist Lock Photocell (480V) for use with CR7P	1225180
AirLink 5 Pin Twist Lock Controller	61409
AirLink 7 Pin Twist Lock Controller	661410
Shorting Cap for use with CR7P	14932

FUSING OPTIONS ⁸	
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

SHIELDING OPTIONS	
Mirada Small	See Shielding Guide
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

MOUNTING ACCESSORIES ⁷	
Description	Order Number
Round Pole Adapter (3" Round/Tapered Poles)	408273CLR
Round Pole Adapter (4" Round Poles)	379967CLR
Round Pole Adapter (5" Round Poles)	379968CLR
B5 to B3 Adapter	800686BLK

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available on "Type 5W" distribution.
3. Consult factory for availability.
4. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
5. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.

6. Accessories are shipped separately and field installed.
7. "CLR" denotes finish. See Finish options.
8. Only available with ALSC/ALSC control options.
9. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
10. Only available in 9L, 12L, 18L, & 24L Lumen Packages. Consult factory for lead time and availability.

Slice Medium Outdoor LED Area Light

Type : _____

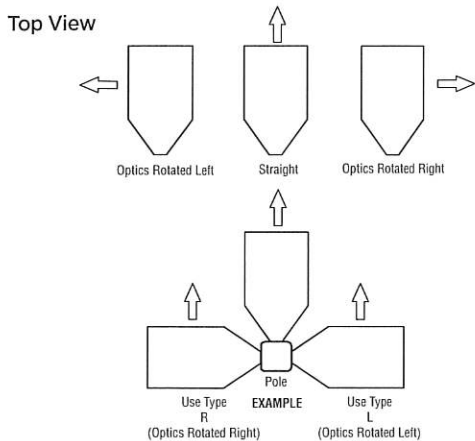
Have questions? Call us at (800) 436-7800

ACCESSORIES

MOUNTING ACCESSORIES		SHIELDING, POLES & MISC. ACCESSORIES		
Side Arm	Universal Mounting Bracket Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5" Part Number: BKA UMB CLR		Integral Louver Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs Part Number: 684812 	
	Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQM B3B5 XX CLR			Integral Half Louver Field Install Integral Half Louver provides great backlight control without impacting front side distribution. Part Number: 743414
	15° Tilt Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQ15 B3B5 XX CLR			
Tenon / Slipfitter	Adjustable Slipfitter Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal) Part Number: BKA ASF CLR		Square Poles 14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction Part Number: 4SQ/5SQ/6SQ 	
	Square Tenon Top Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires Part Number: BKA XNM *			Round Poles 10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction Part Number: 4RP/5RP
	Square Internal Slipfitter Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires Part Number: BKA X_ISF * CLR			
Wall Mount / Wood Pole	Wall Mount Bracket Mounts onto vertical wall surface (hardware/anchors not included) Part Number: BKS XBO WM CLR		Tapered Poles 20' - 39' steel and aluminum poles for retrofit and new construction Part Number: RTP 	
	Wood Pole Bracket Mounts onto wooden poles (6" minimum OD, hardware/anchors not included) Part Number: BKS XBO WP CLR			
		Misc. Bird Spikes 10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool Part Number: 736795 		

Replace CLR with paint finish description
 Replace XX with SQ for square pole or RD for round pole (≥3" OD)
 Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)
 Replace _ with 4 (4" square pole) or 5 (5" square pole)

OPTICS ROTATION



ACCESSORIES/OPTIONS

Integral Louver (IL) and House-Side Shield (IH)

Integral louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate with the optical distribution.

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBT Option



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



Slice Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800


PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
9L	2	70	9411	149	B2-U0-G2	9603	152	B2-U0-G2	9603	152	B2-U0-G2	62
	3		9548	152	B2-U0-G2	9743	155	B2-U0-G2	9743	155	B2-U0-G2	
	4		9063	144	B1-U0-G3	9636	153	B1-U0-G3	9431	150	B1-U0-G3	
	5W		9261	147	B3-U0-G2	9450	150	B3-U0-G2	9450	150	B3-U0-G2	
	FT		9464	150	B2-U0-G2	9657	153	B2-U0-G2	9657	153	B2-U0-G2	
	FTA		9531	151	B2-U0-G2	9725	154	B2-U0-G2	9725	154	B2-U0-G2	
	AM		9649	153	B2-U0-G1	9845	156	B2-U0-G1	9845	156	B2-U0-G1	
	LC/RC		8949	144	B1-U0-G2	9515	153	B2-U0-G2	9313	150	B1-U0-G2	
12L	2	70	12533	147	B3-U0-G2	12788	150	B3-U0-G2	12788	150	B3-U0-G2	85
	3		12714	150	B2-U0-G2	12974	153	B2-U0-G2	12974	153	B2-U0-G2	
	4		12055	142	B2-U0-G3	12817	151	B2-U0-G4	12545	148	B2-U0-G3	
	5W		12333	145	B4-U0-G2	12584	148	B4-U0-G2	12584	148	B4-U0-G2	
	FT		12603	148	B2-U0-G2	12861	151	B2-U0-G2	12861	151	B2-U0-G2	
	FTA		12692	149	B3-U0-G2	12950	152	B3-U0-G2	12950	152	B3-U0-G2	
	AM		12848	151	B3-U0-G1	13111	154	B3-U0-G2	13111	154	B3-U0-G2	
	LC/RC		11903	137	B2-U0-G3	12656	145	B2-U0-G3	12387	142	B2-U0-G3	
18L	2	70	18421	136	B3-U0-G3	18797	139	B3-U0-G3	18797	139	B3-U0-G3	135
	3		18691	138	B3-U0-G3	19072	141	B3-U0-G3	19072	141	B3-U0-G3	
	4		17783	132	B2-U0-G4	18908	140	B2-U0-G4	18506	137	B2-U0-G4	
	5W		18128	134	B4-U0-G2	18498	137	B4-U0-G2	18498	137	B4-U0-G2	
	FT		18526	137	B3-U0-G3	18904	140	B3-U0-G3	18904	140	B3-U0-G3	
	FTA		18656	138	B3-U0-G3	19037	141	B3-U0-G3	19037	141	B3-U0-G3	
	AM		18886	140	B3-U0-G2	19271	143	B3-U0-G2	19271	143	B3-U0-G2	
	LC/RC		17559	131	B2-U0-G3	18670	139	B2-U0-G3	18273	136	B2-U0-G3	
24L	2	70	23361	145	B4-U0-G3	24506	152	B4-U0-G3	24414	152	B4-U0-G3	161
	3		23998	149	B3-U0-G3	25174	156	B3-U0-G3	25079	156	B3-U0-G3	
	4		24496	152	B3-U0-G5	25672	159	B3-U0-G5	25662	159	B3-U0-G5	
	5W		23788	148	B5-U0-G3	24953	155	B5-U0-G3	24859	154	B5-U0-G3	
	FT		24059	149	B3-U0-G3	25238	157	B3-U0-G3	25143	156	B3-U0-G3	
	FTA		23079	143	B3-U0-G3	24210	150	B4-U0-G3	24119	150	B4-U0-G3	
	AM		24051	149	B3-U0-G2	25229	157	B3-U0-G2	25134	156	B3-U0-G2	
	LC/RC		24353	151	B3-U0-G4	25522	159	B3-U0-G4	25522	159	B3-U0-G4	
30L	2	70	29464	138	B4-U0-G3	30908	145	B4-U0-G3	30791	145	B4-U0-G3	213
	3		30268	142	B3-U0-G4	31751	149	B3-U0-G4	31631	149	B3-U0-G4	
	4		30609	144	B3-U0-G5	32079	151	B3-U0-G5	32066	151	B3-U0-G5	
	5W		30002	141	B5-U0-G3	31472	148	B5-U0-G3	31353	147	B5-U0-G3	
	FT		30345	142	B4-U0-G4	31832	149	B4-U0-G4	31712	149	B4-U0-G4	
	FTA		29109	137	B4-U0-G4	30535	143	B4-U0-G4	30420	143	B4-U0-G4	
	AM		30334	142	B4-U0-G3	31820	149	B4-U0-G3	31700	149	B4-U0-G3	
	LC/RC		30430	143	B3-U0-G5	31891	150	B3-U0-G5	31891	150	B3-U0-G5	
36L	2	70	34123	134	B4-U0-G3	35795	140	B4-U0-G3	35660	140	B4-U0-G3	255
	3		35053	137	B4-U0-G4	36771	144	B4-U0-G4	36652	144	B4-U0-G4	
	4		35414	139	B3-U0-G5	37114	146	B3-U0-G5	37099	145	B3-U0-G5	
	5W		34745	136	B5-U0-G4	36448	143	B5-U0-G4	36311	142	B5-U0-G4	
	FT		35142	138	B4-U0-G4	36864	145	B4-U0-G4	36725	144	B4-U0-G4	
	FTA		33711	132	B4-U0-G4	35363	139	B4-U0-G4	35230	138	B4-U0-G4	
	AM		35130	138	B4-U0-G3	36851	145	B4-U0-G3	36712	144	B4-U0-G3	
	LC/RC		35207	138	B3-U0-G5	36897	145	B3-U0-G5	36897	145	B3-U0-G5	
42L	2	70	39966	127	B5-U0-G4	41925	134	B5-U0-G4	41767	133	B5-U0-G4	314
	3		41056	131	B4-U0-G5	43068	137	B4-U0-G5	42905	137	B4-U0-G5	
	4		41518	132	B3-U0-G5	43511	139	B4-U0-G5	43494	139	B4-U0-G5	
	5W		40696	130	B5-U0-G4	42690	136	B5-U0-G4	42529	135	B5-U0-G4	
	FT		41161	131	B4-U0-G4	43178	138	B4-U0-G4	43015	137	B4-U0-G4	
	FTA		39484	126	B4-U0-G4	41419	132	B5-U0-G4	41263	131	B5-U0-G4	
	AM		41146	131	B4-U0-G3	43162	137	B4-U0-G3	43000	137	B4-U0-G3	
	LC/RC		41275	131	B3-U0-G5	43256	137	B3-U0-G5	43256	137	B3-U0-G5	
48L	2	70	44390	121	B5-U0-G4	46565	127	B5-U0-G4	46389	126	B5-U0-G4	367
	3		45325	124	B4-U0-G5	47547	130	B4-U0-G5	47367	129	B4-U0-G5	
	4		45996	125	B4-U0-G5	48204	131	B4-U0-G5	48186	131	B4-U0-G5	
	5W		45002	123	B5-U0-G4	47435	129	B5-U0-G4	47302	129	B5-U0-G4	
	FT		44799	122	B4-U0-G5	46994	128	B4-U0-G5	46817	128	B4-U0-G5	
	FTA		44590	121	B5-U0-G4	46775	127	B5-U0-G4	46599	128	B5-U0-G4	
	AM		46310	126	B4-U0-G3	48579	132	B4-U0-G3	48396	132	B4-U0-G3	
	LC/RC		45726	125	B4-U0-G5	47921	131	B4-U0-G5	47921	131	B4-U0-G5	

Slice Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

PERFORMANCE (CONT.)

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
55L	2	70	49583	114	B5-U0-G4	52012	119	B5-U0-G4	51816	119	B5-U0-G4	436
	3		50934	117	B4-U0-G5	53430	123	B4-U0-G5	53229	122	B4-U0-G5	
	4		50544	116	B4-U0-G5	52970	121	B4-U0-G5	52950	121	B5-U0-G5	
	5W		50487	116	B5-U0-G4	52961	121	B5-U0-G4	52761	121	B5-U0-G4	
	FT		51064	117	B4-U0-G5	53566	123	B4-U0-G5	53364	122	B4-U0-G5	
	FTA		48984	112	B5-U0-G4	51384	118	B5-U0-G4	51191	117	B5-U0-G4	
	AM		51045	117	B4-U0-G3	53546	123	B4-U0-G3	53344	122	B4-U0-G3	
	LC/RC		50247	116	B4-U0-G5	52659	121	B4-U0-G5	52659	121	B4-U0-G5	

ELECTRICAL DATA (AMPS) - 3000K/4000K/5000K*						
Lumens	120V	208V	240V	277V	347V	480V
9L	0.52	0.30	0.26	0.22	0.18	0.13
12L	0.71	0.41	0.35	0.31	0.24	0.18
18L	1.13	0.65	0.56	0.49	0.39	0.28
24L	1.34	0.77	0.67	0.58	0.46	0.34
30L	1.78	1.02	0.89	0.77	0.61	0.44
36L	2.13	1.23	1.06	0.92	0.73	0.53
42L	2.62	1.51	1.31	1.13	0.90	0.65
48L	3.06	1.76	1.53	1.32	1.06	0.76
55L	3.63	2.10	1.82	1.57	1.26	0.91

RECOMMENDED LUMEN MAINTENANCE ¹ (0-25°C)					
Ambient	Initial ²	25hr ²	50hr ²	75hr ²	100hr ²
9L - 18L	100%	97%	93%	90%	86%
24L - 48L	100%	95%	89%	84%	79%
55L	100%	91%	82%	74%	67%

RECOMMENDED LUMEN MAINTENANCE ¹ (40°C)					
Ambient	Initial ²	25hr ²	50hr ²	75hr ²	100hr ²
7L - 18L	100%	97%	92%	88%	84%
24L - 48L	100%	94%	87%	80%	74%

RECOMMENDED LUMEN MAINTENANCE ¹ (50°C)					
Ambient	Initial ²	25hr ²	50hr ²	75hr ²	100hr ²
7L - 18L	100%	96%	91%	87%	83%

DELIVERED LUMENS*					
Lumen Package	Distribution	Phosphor Converted Amber (Peak 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	3	6018	82	B1-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FTA	5924	81	B1-U0-G1	
	AM	5995	81	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	3	7749	76	B1-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FTA	7628	75	B2-U0-G2	
	AM	7720	76	B1-U0-G1	
18L	2	9311	69	B2-U0-G2	135
	3	9582	71	B2-U0-G2	
	5W	8712	65	B3-U0-G2	
	FT	9237	68	B2-U0-G2	
	FTA	9433	70	B2-U0-G2	
	AM	9546	71	B2-U0-G1	
24L	2	10955	63	B2-U0-G2	175
	3	11273	64	B2-U0-G2	
	5W	10249	59	B3-U0-G2	
	FT	10867	62	B2-U0-G2	
	FTA	11097	63	B2-U0-G2	
	AM	11230	64	B2-U0-G1	

ELECTRICAL DATA - Phosphor Converted Amber (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
9L	0.62	0.36	0.31	0.27	0.21	0.15
12L	0.85	0.50	0.43	0.38	0.30	0.22
18L	1.13	0.65	0.56	0.49	0.39	0.28
24L	1.47	0.85	0.73	0.64	0.51	0.37

*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

*LEDs are frequently updated therefore values are nominal.

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
 2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
 3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

Slice Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

PHOTOMETRICS

[Back to Quick Links](#)

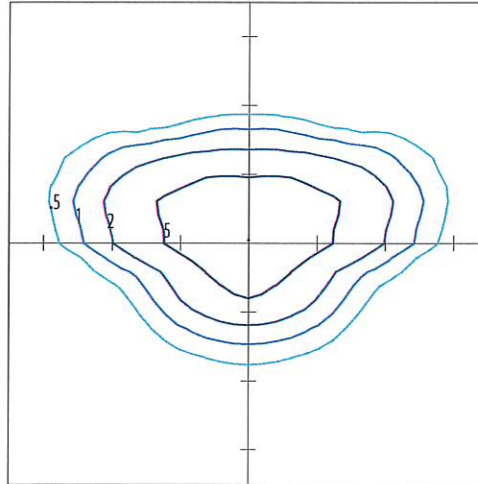
Luminaire photometry has been conducted by an accredited laboratory in accordance with IESNA LM-79. As specified by IESNA LM-79 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

SLM-LED-30L-SIL-2-40-70CRI

Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	30,908
Watts	213
Efficacy	145
IES Type	Type II - Short
BUG Rating	B4-U0-G3

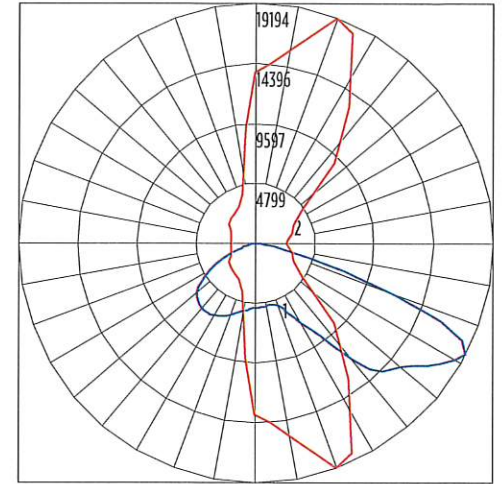
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	5,206	17%
Medium (30-60°)	19,108	62%
High (60-80°)	6,293	20%
Very High (80-90°)	301	1%
Uplight (90-180°)	0	0%
Total Flux	30,908	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



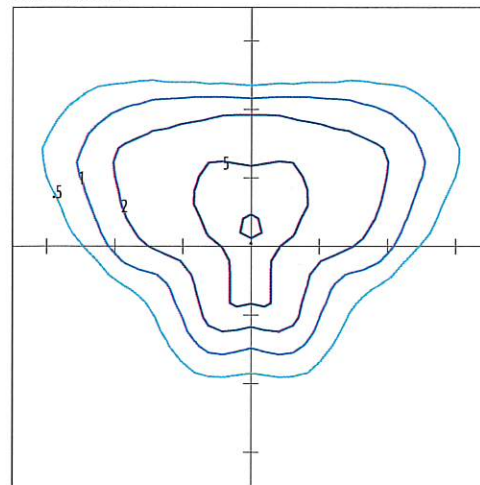
■ Vertical Plane ■ Horizontal Cone

SLM-LED-30L-SIL-3-40-70CRI

Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,751
Watts	213
Efficacy	149
IES Type	Type III - Short
BUG Rating	B3-U0-G4

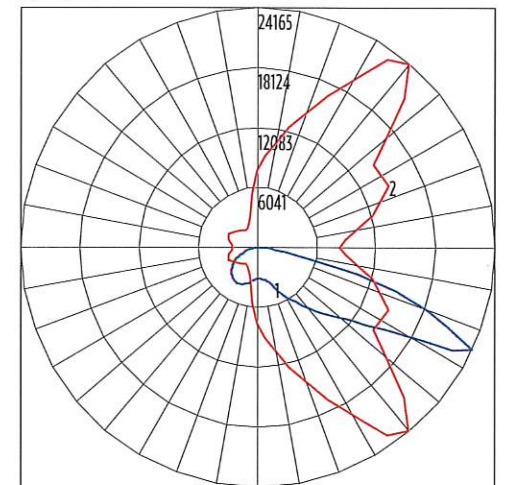
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3,533	11%
Medium (30-60°)	18,345	58%
High (60-80°)	9,441	30%
Very High (80-90°)	432	1%
Uplight (90-180°)	0	0%
Total Flux	31,751	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone

Slice Medium Outdoor LED Area Light

Type : _____

Have questions? Call us at (800) 436-7800

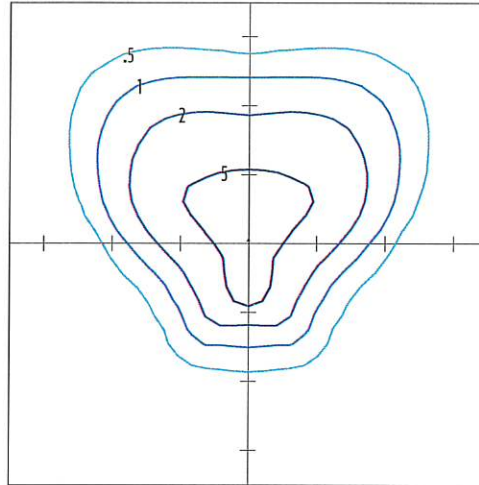
PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-FT-40-70CRI

Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,832
Watts	213
Efficacy	149
IES Type	Type IV - Short
BUG Rating	B4-U0-G4

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	4,047	13%
Medium (30-60°)	16,376	51%
High (60-80°)	10,861	34%
Very High (80-90°)	549	2%
Uplight (90-180°)	0	0%
Total Flux	31,832	100%

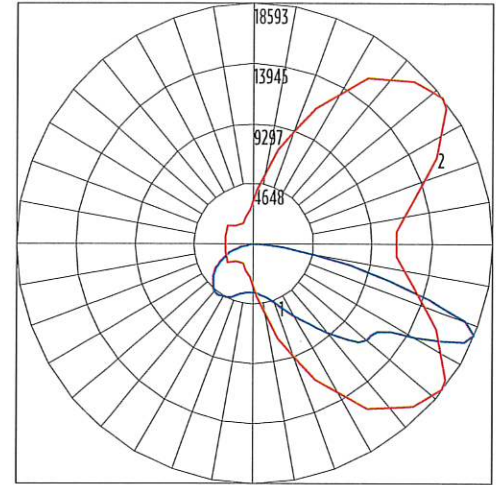
ISO Footcandle



25' Mounting Height / 25' Grid Spacing

5 FC
 2 FC
 1 FC
 0.5 FC

Polar Curve



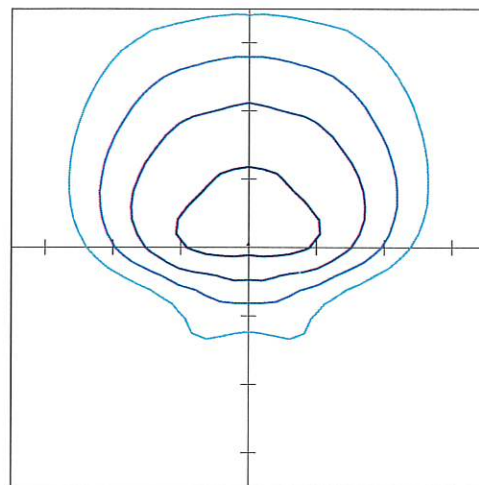
Vertical Plane
 Horizontal Cone

SLM-LED-30L-SIL-4-40-70CRI

Luminaire Data	
Type 4 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	32,079
Watts	213
Efficacy	150
IES Type	Type IV - Very Short
BUG Rating	B3-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3,429	11%
Medium (30-60°)	14,044	44%
High (60-80°)	13,233	41%
Very High (80-90°)	1,373	4%
Uplight (90-180°)	0	0%
Total Flux	32,079	100%

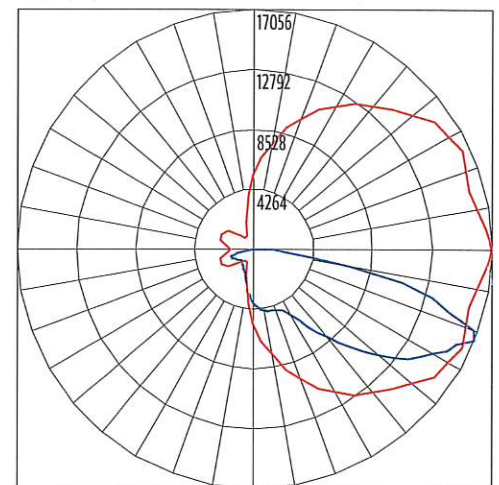
ISO Footcandle



25' Mounting Height / 25' Grid Spacing

5 FC
 2 FC
 1 FC
 0.5 FC

Polar Curve



Vertical Plane
 Horizontal Cone

Slice Medium Outdoor LED Area Light

Type : _____

Have questions? Call us at (800) 436-7800

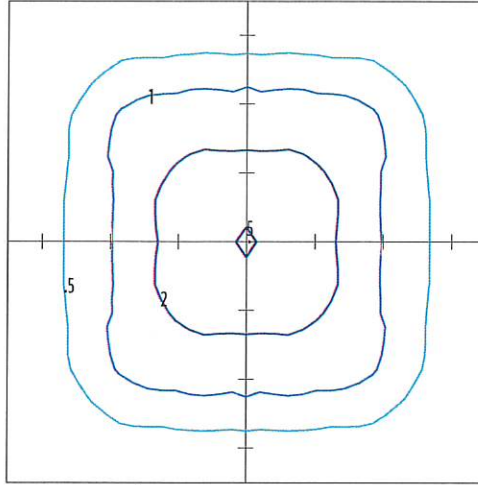
PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-5W-40-70CRI

Luminaire Data	
Type FW Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,472
Watts	213
Efficacy	148
IES Type	Type VS - Short
BUG Rating	B5-U0-G3

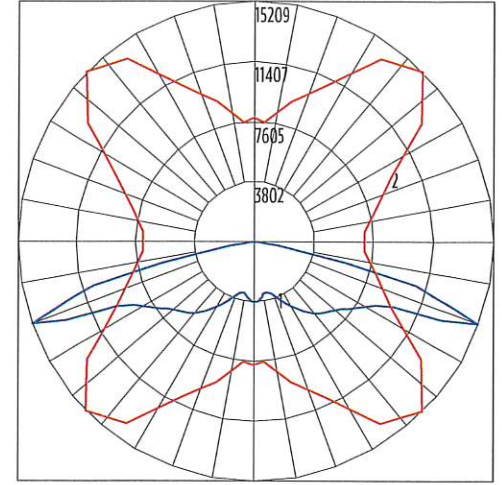
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	3,647	12%
Medium (30-60°)	13,687	43%
High (60-80°)	13,833	44%
Very High (80-90°)	305	1%
Uplight (90-180°)	0	0%
Total Flux	31,472	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



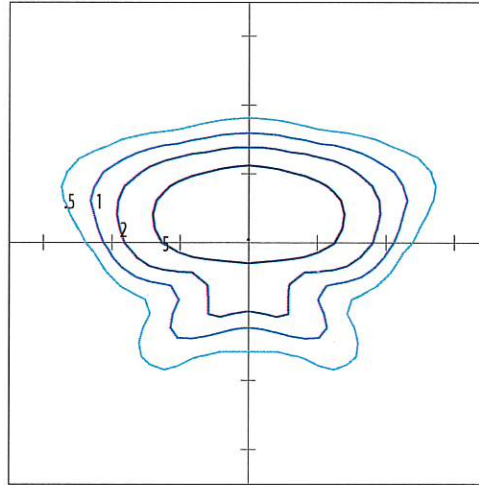
■ Vertical Plane ■ Horizontal Cone

SLM-LED-30L-SIL-FTA-40-70CRI

Luminaire Data	
Type FTA Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	30,535
Watts	213
Efficacy	143
IES Type	Type I - Very Short
BUG Rating	B4-U0-G3

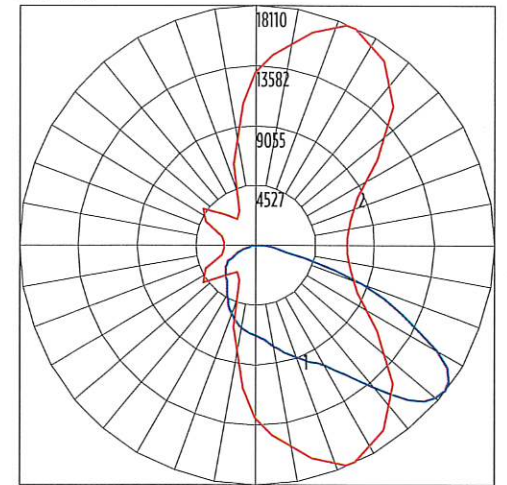
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	7,443	25%
Medium (30-60°)	17,335	57%
High (60-80°)	5,324	17%
Very High (80-90°)	434	1%
Uplight (90-180°)	0	0%
Total Flux	30,535	100%

ISO Footcandle



25' Mounting Height / 25' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone



Slice Medium Outdoor LED Area Light

Type : _____

 Have questions? Call us at (800) 436-7800

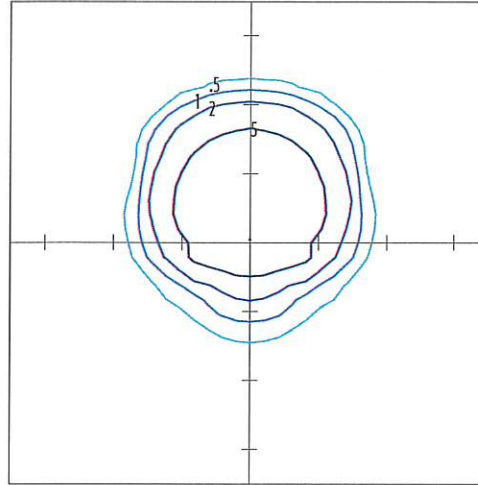
PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-AM-40-70CRI

Luminaire Data	
Type AM Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,820
Watts	213
Efficacy	149
IES Type	Type III - Very Short
BUG Rating	B3-U0-G3

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	6,626	21%
Medium (30-60°)	19,761	62%
High (60-80°)	5,072	16%
Very High (80-90°)	361	1%
Uplight (90-180°)	0	0%
Total Flux	31,820	100%

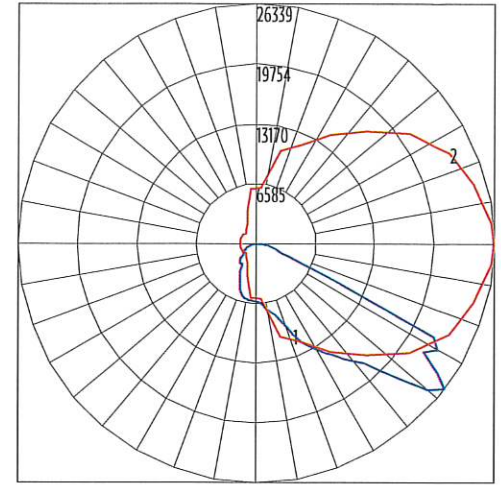
ISO Footcandle



25' Mounting Height / 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



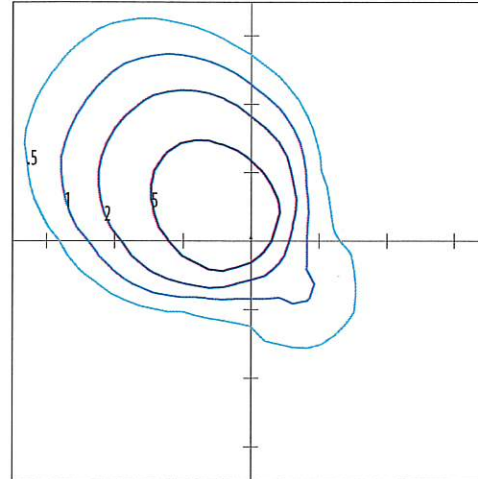
■ Vertical Plane ■ Horizontal Cone

SLM-LED-30L-SIL-LC-40-70CRI

Luminaire Data	
Type LC Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,891
Watts	213
Efficacy	150
IES Type	N/A
BUG Rating	B3-U0-G5

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	4965	16%
Medium (30-60°)	14179	44%
High (60-80°)	11730	37%
Very High (80-90°)	1018	3%
Uplight (90-180°)	0	0%
Total Flux	31891	100%

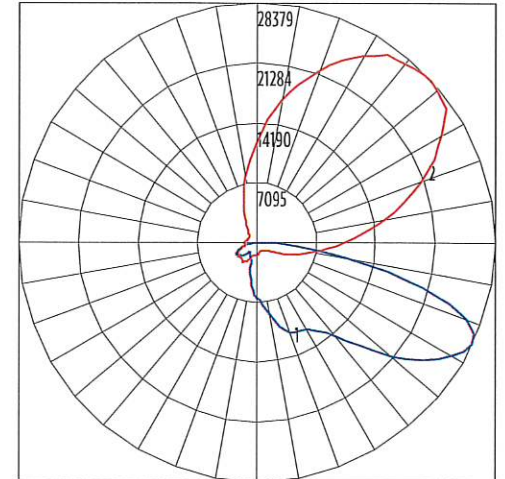
ISO Footcandle



25' Mounting Height / 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone



Slice Medium Outdoor LED Area Light

Type : _____

Have questions? Call us at (800) 436-7800

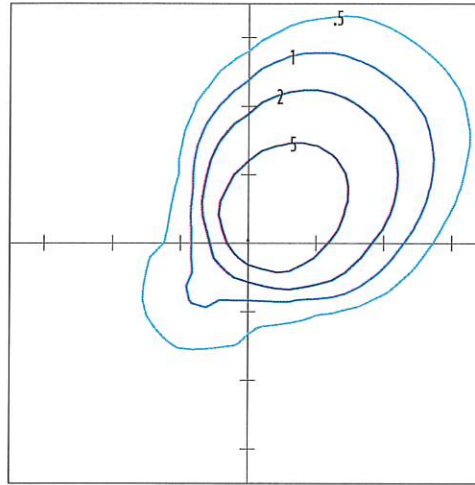
PHOTOMETRICS (CONT.)

SLM-LED-30L-SIL-RC-40-70CRI

Luminaire Data	
Type RC Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	31,890
Watts	213
Efficacy	150
IES Type	N/A
BUG Rating	B3-U0-G5

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	4964	16%
Medium (30-60°)	14178	44%
High (60-80°)	11730	37%
Very High (80-90°)	1018	3%
Uplight (90-180°)	0	0%
Total Flux	31890	100%

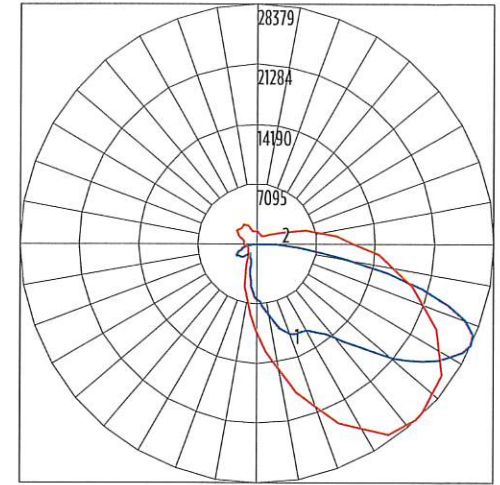
ISO Footcandle



25' Mounting Height / 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

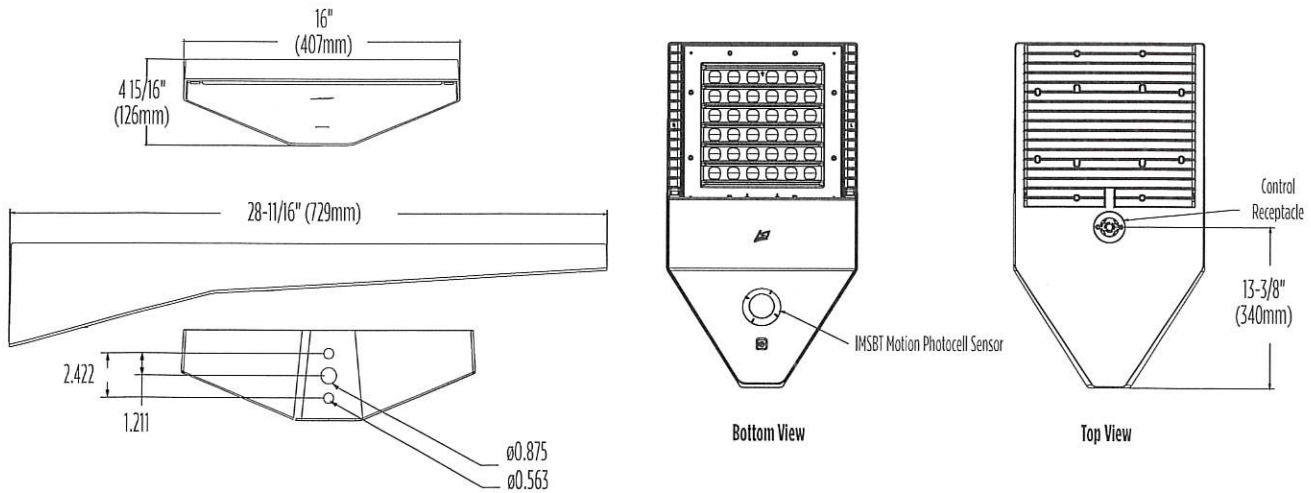
Polar Curve



■ Vertical Plane ■ Horizontal Cone

PRODUCT DIMENSIONS

[Back to Quick Links](#)



Luminaire EPA Chart					
Tilt Degree		0°	15°	30°	45°
	Single	0.5	1.2	2.1	2.6
	D180°	1.1	1.3	2.1	2.6
	D90°	0.9	1.8	2.5	3.1
	T90°	1.2	2.3	2.9	3.6
	TN120°	1.3	3.0	4.4	5.4
	Q90°	1.2	2.3	2.9	3.6



Slice Medium Outdoor LED Area Light

Type : _____

 **Have questions?** Call us at (800) 436-7800

CONTROLS

[Back to Quick Links](#)

Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

Sensor Sequence of Operations

Standard Programming	On Event	Off Event	On Light Level	Dim Light Level	Daylight Harvesting	Delay To Off	Sensitivity
OMSBTxL/IMSBTxL	Motion	No Motion	100%	N/A	On; Auto Calibration	20 minutes	High
OMS	Motion	No Motion	N/A	N/A	N/A	30 seconds	Auto

Operation	Description
On Event	Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.
Off Event	Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.
On Light Level	The light level that the fixtures will turn on to when ON EVENT occurs.
Dim Light Level	The light level that the fixtures will dim down to when no motion is detected.
Delay to Dim	The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.
Delay to Off	The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.
Sensitivity	The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view.



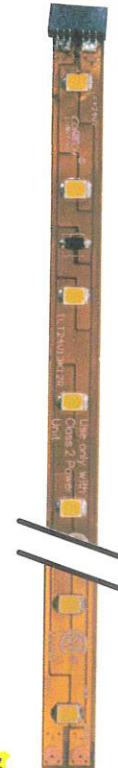
DATE

PROJECT **WENDY'S**

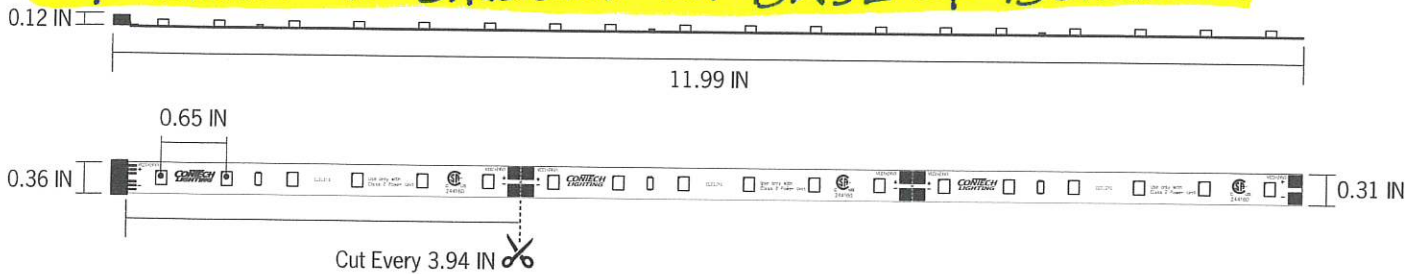
TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

WATTAGE	2.1W/Ft
LUMEN OUTPUT	248Lm/Ft (3000K) *
LED DENSITY	18 LED/Ft (0.65" Spacing)
COLOR TEMPERATURE	2700K, 3000K, 3500K, 4000K
CRI	80+
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance
INPUT VOLTAGE	24V
DIMMING	Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
RUN LENGTH	32 Ft Max
AMBIENT OPERATING TEMP	-4° to 104°F (-20° to 40°C)
LISTING	cSAus Certified to UL Standards Suitable for Dry or Damp Locations Not Suitable for Wet Locations Closet Rated
WARRANTY	Full replacement guarantee after date of purchase: - Five years when installed with mounting channel - Three years when installed without mounting channel



* WILL ADD LESS THAN (1) FOOT CANDLE OF LIGHT TO GROUND AT BASE OF BUILDING



Ordering Information

Example Order:

TLT24V	1		
Tapelight Series	Output	Color Temp	Length/Quantity
TLT24V - 24VDC Performance LED Tapelight	1 - Standard Output	27K - 2700K 3K - 3000K 35K - 3500K 4K - 4000K	4 - 4 In Individual Segment 12 - 12 In Individual Segment 4R - 20 Ft Reel of 4 In Segments (60 Pieces Total, Actual Length 19.75 Ft) 12R - 20 Ft Reel of 12 In Segments (20 Pieces Total, Actual Length 19.75 Ft) 30CR - 30 Ft Continuous Reel (Actual Length 29.35 Ft)

MOUNTING HARDWARE ON P9

DATE

PROJECT

TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

Product Details

Features

- Flexible, low voltage linear LED accent lighting system provides high quality illumination for many indoor applications
- Modular “plug and play” system, no need for field soldering
- Wide range of Power Supplies, Controllers, Connectors and Mounting Channels
- Available in:
 - Individual 4 inch and 12 inch segments with male and female connector ends
 - 20 Foot Reels of connected, individual 4 inch or 12 inch segments
 - 30 Foot Continuous Reels (no mid-connectors); one male and one female connector end
- TLT24V1 Series can be cut (on the cut lines) in 4 inch increments
- Easy to install using the 3M Double Sided Adhesive on each segment; tape can be directly mounted to most surfaces
- For additional thermal heatsinking, protection of the LEDs and an overall cleaner aesthetic, using the Aluminum Mounting Channel is recommended
- For added protection of the LEDs and subtle diffusion and glare control, a Clear or Frosted Lens may be used; Lens must be used with the Aluminum Mounting Channel and is easily installed

Performance Summary

- High output LEDs provide excellent luminous intensities at low drive currents
- Low power consumption and consistent, stable performance
- Delivers 248 lumens at 2.1W per foot (delivered lumens based on 1 foot of 3000K tape)
- Single run length up to 32 feet on one 96W power supply
- Dimmable using any of the TL Series Dimming Controls
- TLT24V1 Standard Output tapelight series is available in 2700K, 3000K, 3500K and 4000K
- Dimmable using Dimmable Power Supplies, Controllers or DMX Interface
- System designed and rated for 50,000 hours at 70% lumen maintenance when mounted in ConTech Aluminum Mounting Channel
- cCSAus Certified to UL standards
- Suitable for dry or damp locations; not suitable for wet locations
- Closet Rated

Warranty

- Covered by ConTech's full replacement guarantee after date of purchase:
 - Five (5) year replacement guarantee when tape light is installed using the Aluminum Mounting Channel
 - Three (3) year replacement guarantee when installed without the Aluminum Mounting Channel

Run Lengths

TLT24V 24V POWER SUPPLY INPUT: 24V DC	TLT24V1 STANDARD OUTPUT (SO) 2.1W/FT	
WATTAGE	MAX RUN	MAX SPLIT
20W	7 FT	9 FT
36W	11 FT	16 FT
60W	18 FT	26 FT
90W	28 FT	40 FT
96W	32 FT	45 FT

- Max split can be split more than once, without exceeding the max single run in each leg.
- Max Run refers to the total single run of tapelight that can go on a power supply. Max Split refers to the total amount of tapelight that can go on a driver if it were separated into two runs.
- Max Run lengths are calculated with 12V or 24V DC at the start of the tape run. Voltage drop may occur if not using proper wire gauge. Please refer to the Voltage Drop and Wire Length Distance chart.
- Max Run lengths are calculated with no more than 30% light loss from the start of the tape run to the end of the tape run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.
- Overall distance of LED tape under load [illuminated sections]. If exceeded damage to the power supply and LED tape may result.

DATE

PROJECT

TYPE

TLT24V1 | 24V Standard Output Performance LED Tapelight

Photometrics

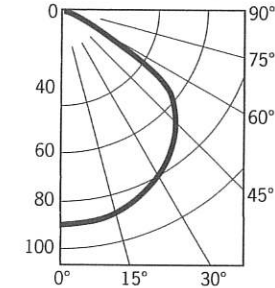
TLT24V13K12

Fixture Delivered Lumens: 247.91
 Total Watts@120V: 6.74
 Lumens Per Watt: 37.0
 Center Beam Candle Power: 90.0
 Beam Distribution: 116°
 Spacing Criterion: 1.3
 Color Rendering Index (CRI)¹: 82
 Color Temperature (CCT)²: 2971K
 Designed for 50,000 Hour Lamp Life³
 LM-63 Test No. G21010607
 LM-79 Test No. S21022404

Intensity Distribution

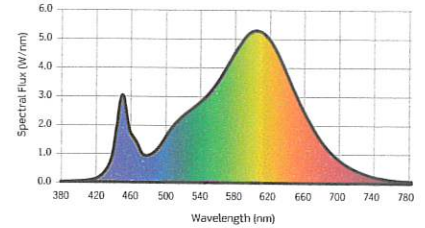
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
2'	22.5	5.9
4'	5.6	11.9
6'	2.5	17.8
8'	1.4	23.7
10'	0.9	29.6
12'	0.6	35.6

Candela Curve



Tape mounted in vertical base-up position

Spectral Power Distribution Chart⁴



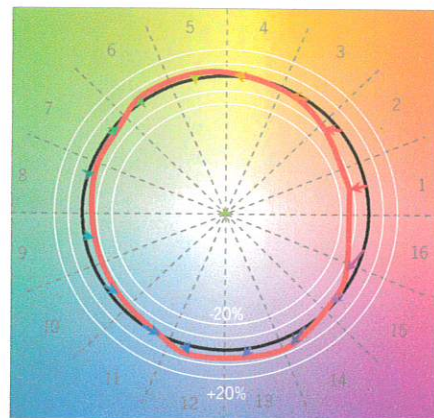
1. Accuracy of rendering colors 2. Color appearance of light source 3. Dependent on surrounding temperatures 4. Colors present within the light source

TM-30 Data

ANSI/IES TM-30-18 Color Rendition Report Test No. S21022404

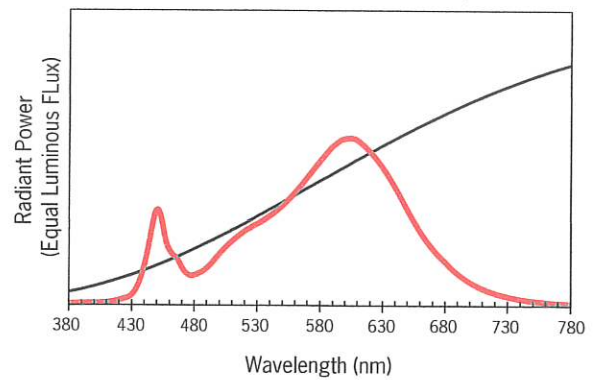
R_f	84
R_g	96
CCT(K)	2971K
D_{uv}	-0.0010
u'	0.2520
v'	0.5205

Color Vector Graphic

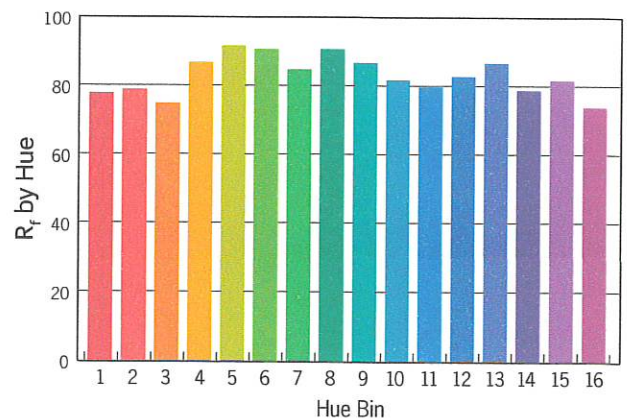
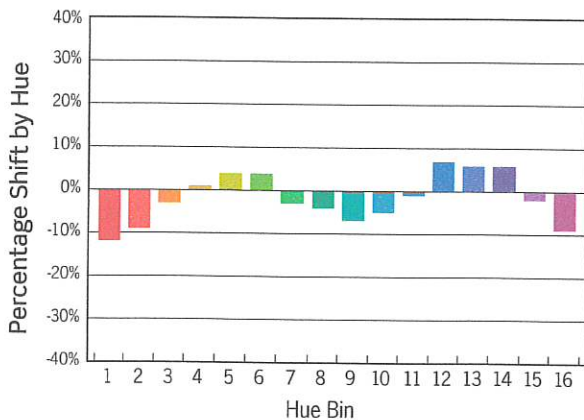


— Reference Illuminance — Test Source

Spectral Power Distribution Comparison



— Reference Illuminance
 — Test Source



Colors are for visual orientation purposes only

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 24V Power Supplies

24V Plug-In Power Supplies



TLP24VP Series
Plug-and-Play Power Supply
 120VAC/24VDC. Includes AC wall plug and female power output barrel plug for easy installation. Class 2 listed.
 For use with 24V LED Tapelight.

Power Supply/Wattage	Quantity
TLP24VP36 - 36W 4-1/4" L x 2" W x 1-3/8" H	
TLP24VP60 - 60W 4-1/2" L x 2" W x 1-3/8" H	
TLP24VP96 - 96W 6-1/8" L x 2-3/8" W x 1-1/2" H	

24V Hardwire Power Supplies



TLP24VHW Series
Hardwire Power Supply
 120VAC/24VDC. Includes stripped and tinned wire pigtailed on the input and output sides. **MUST BE MAINTAINED WITHIN AN ENCLOSURE THAT MEETS LOCAL BUILDING CODES AND NEC (SUPPLIED BY OTHERS).** 1 Ft Wire leads. Class 2 recognized.
 For use with 24V LED Tapelight.



TLP24VHW * MV-ENC Series
Hardwire Class 2 Constant Voltage Driver
 120 – 277VAC/24VDC Dimming and non-dimming Class 2 Constant Voltage LED Drivers. UL Listed enclosure with built-in junction boxes. No minimum load requirement. Auto-reset protection for short circuit and over-temperature. Over load protection in CC mode. 0–10V Dimming driver delivers smooth flicker free linear dimming down to 1% with most LEDs and a wide variety of compatible dimmers.
 0–10V Driver dimming not recommended when using TW/RGB/RGBW controllers.
 For use with 24V LED Tapelight.

Model	Quantity
TLP24VHW20 20W 24V 120VAC: 5-3/4" L x 1-1/2" W x 1-1/4" D	
TLP24VHW60 60W 24V 120VAC: 6-1/3" L x 1-3/4" W x 1-1/4" D	
TLP24VHW96 96W 24V 120VAC: 8-3/4" L x 2-2/3" W x 1-1/2" D	

Model	Quantity
TLP24VHW60MV-ENC 60W 24V 120-277VAC, Non-Dimming Driver	
TLP24VHW60MVD2-ENC 60W 24V 120-277VAC, 0-10V Dimming Driver	
TLP24VHW96MV-ENC 96W 24V 120-277VAC, Non-Dimming Driver	
TLP24VHW96MVD2-ENC 96W 24V 120-277VAC, 0-10V Dimming Driver	



TLP24VHW * -ENC Series
Hardwire Class 2 Enclosed Driver
 120VAC/24VDC. Dimmable Class 2 listed driver. Compact self-enclosed driver with two (2) knockouts. Auto Reset and short circuit protection. Dimmable with standard MLV/ Incandescent TRIAC (Leading Edge) dimmers; 8W Min. load required for smooth dimming.
 TRIAC Driver dimming not recommended when using TW/RGB/RGBW controllers.
 For use with 24V LED Tapelight.

Model	Quantity
TLP24VHW20-ENC 20W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D	
TLP24VHW60-ENC 60W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D	
TLP24VHW96-ENC 96W 24V 120VAC: 6-3/4" L x 2-2/3" W x 1-1/4" D	
TLP24VHW96-ENC277V 96W 24V 277VAC: 10" L x 3" W x 3" D	



L3D0 Series
Hardwire Hi-Lume Premier Driver
 Enclosed Class 2 96W Constant Voltage Driver with dimming down to 0.1% with compatible controls. Universal 120 - 277VAC input. Output wattage range 25-96W.
 For use with 24V LED Tapelight.

Model	Quantity
L3D0-96W24V-U 96W 24V 120-277VAC: 5.5" W x 2" H x 10.5" L	

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

Plug-and-Play Power Connectors



TLCEXT Series

Plug-and-Play Power Supply Extension

Includes male and female plug connectors.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series



TLCIP Series

Static Color Male Power Connector

Includes one (1) male plug connector and one (1) male flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCEXT24 - 24 IN

TLCEXT48 - 48 IN

Quantity

TLCEXT36 - 36 IN

TLCEXT96 - 96 IN

TLCIP12 - 12 IN

TLCIP19 - 19 IN

Quantity



TLCS2

Plug-and-Play 2-Way Splitter

Includes one (1) male and two (2) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series



TLCOP12

Static Color Female Power Connector

12 In. connector includes one (1) male plug connector and one (1) female flex tape connector.

Use with 12V or 24V Static Color Performance LED Tapelight

TLCS2 - 12V/24V Plug-and-Play 2-Way Splitter

Quantity

TLCOP - 12 Inch 12V/24V Static Color Female Power Connector

Quantity



TLCS3

Plug-and-Play 3-Way Splitter

Includes one (1) male and three (3) female connectors. Approximately 2 Ft long.

Use with 12V or 24V Performance LED Tapelight

Not compatible with 24V RGBW Performance LED Tapelight series

TLCS3 - 12V/24V Plug-and-Play 3-Way Splitter

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V Power Supply Accessories

Hardwire Power Connectors



TLCFF

Female Connector

6 Inch long connector includes a wire pigtail end and a female plug connector on the other end. Used to add plug and play female connector to hardwire power supplies.

Use with 12V or 24V Performance LED Tapelight



TLCIP * HW Series

Male Power Connector

Includes wire pigtail end and one (1) male flex tape connector.

Use with 12V or 24V Performance LED Tapelight

TLCFF - 12V/24V Hardwire Female Connector

Quantity

TLCIP12HW - 12 IN

TLCIP19HW - 19 IN

Quantity

TLCIP19HW-12AWG10FT

19 IN Connector with Additional 10 Ft 12AWG Red & Black Wires

TLCIP19HW-12AWG20FT

19 IN Connector with Additional 20 Ft 12AWG Red & Black Wires



TLCCM

Male Connector

6 Inch long connector includes a wire pigtail end and a male plug connector on the other end. Used for easy plug in connection to plug and play power supply and wire end can be connected to RGB controller at the screw terminals.

Use with 12V or 24V Performance LED Tapelight



TLCOP12HW

Female Power Connector

12 In. connector includes wire pigtail end and one (1) female flex tape connector.

Use with 12V or 24V Performance LED Tapelight

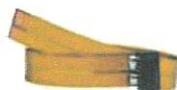
TLCCM - 12V/24V Hardwire Male Connector

Quantity

TLCOPHW - 12 IN 12V/24V Hardwire Female Power Connector

Quantity

Linear Connectors



TLCM Series

Bridge Connector

Blank section used to bridge gaps where LEDs are not necessary.

Use with 12V or 24V Performance LED Tapelight



TLCX

Cross Connector

Used to connect up to four (4) TLT segments. May be cut to create 2-way "L" connection or 3-way "T" connection.

Use with 12V or 24V Performance LED Tapelight

TLCM2 - 2 IN
TLCM12 - 12 IN

TLCM6 - 6 IN

Quantity

TLCX - 12V/24V Cross Connector

Quantity



TLCFF

Short Female-to-Female Connector

Used to connect male tapelight ends (when tapelight is cut two male ends remain)

Use with 12V or 24V Performance LED Tapelight

TLCFF - 12V/24V Short Female-to-Female Connector

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | 12V & 24V TLT Series Static Color Controllers



TLPRTW
4-Channel Power Repeater
 Enables synchronized control of multiple runs from one controller.
 5-5/16" L x 1-3/4" W x 1-1/8" D
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPRTW - 12V/24V LED 4-Channel Power Repeater Quantity



TLPRGBRF
Dimming Controller with RF Remote Control
 Pre-programmed functions include: color strobe, 3-channel color change and gradual brightness change. Includes two (2) programmable presets. Use with non-dimming tapelight power supplies. Not rated for outdoor use.
 8-3/8" L x 1-5/8" W x 1-3/16" D
 Use with 12V or 24V Performance LED Tapelight

TLPRGBRF - 12V/24V Dimming Controller with RF Remote Control Quantity



TLPINT
DMX 512 CV Decoder
 Designed to convert universal DMX 512 signal to PWM signal when used with a DMX 512 console (by others). Use with non-dimming tapelight power supplies.
 Not UL listed for outdoor use.
 6-3/16" L x 3-1/8" W x 1-5/8" D
 Use with 12V or 24V Static Color, TW, RGB or RGBW Performance LED Tapelight

TLPINT - 12V/24V DMX 512 CV Decoder Quantity

IR Controllers



TLPICB
IR Cabinet Switch
 Allows on/off switching functionality for use with cabinet doors. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight

TLPICB - 12V/24V IR Cabinet Switch Quantity



TLPIWV
IR Wireless Waving Switch
 Allows wireless on/off switching functionality by waving an object within the IR field. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight

TLPIWV - 12V/24V IR Wireless Waving Switch Quantity



TLPDIM10V
Static Color 0-10V Dimming Module
 For use with standard 0-10V dimmers. Dimming down to 15%. Not UL listed for outdoor use. Use with non-dimming tapelight power supplies.
 4-3/4" L x 1-1/2" W x 1-1/2" D
 For use with 12V or 24V Static Color Performance LED Tapelight
 Not compatible with 12V or 24V TW, RGB or RGBW Performance LED Tapelight

TLPDIM10V - 12V/24V Static Color 0-10V Dimming Module Quantity



TLPIDM
Tapelight Touch Dimmer
 Allows adjustment of the brightness of the LEDs by touching the controller housing. 36W Max.
 1-1/2" L x 1-3/16" W x 5/16" H
 Use with 12V or 24V Performance LED Tapelight
 Not compatible with TW, RGB or RGBW Performance LED Tapelight

TLPIDM - 12V/24V Tapelight Touch Dimmer Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

Product Details

Aluminum Mounting Channel

- Provides excellent heat sinking and protection to the LEDs while ensuring a clean, straight run
- 6 Ft long, Silver or Black Aluminum
- Outdoor/Wet listed Performance LED Tapelight is not compatible with channel end caps or diffusion lenses, except when using the Deep Standard Channel

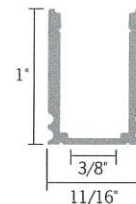
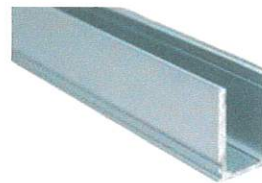
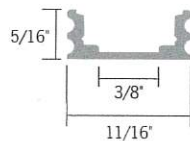
Channel Mounting Clips

- Four (4) Mounting clips and four (4) Philips head screws per package
- 24 Inches between clips recommended for most applications
- Stainless Steel

Channel End Caps

- Creates a clean finish to the mounting channel
- Two (2) end caps: one open, one closed
- ABS Plastic

Standard and Deep Mounting Channels



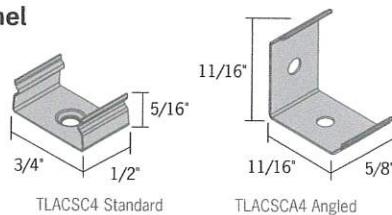
TLACS6 - 6 Ft Standard Channel, Aluminum
TLACS6-B - 6 Ft Standard Channel, Black

Quantity

TLAC8T6 - 6 Ft Deep Standard Channel, Aluminum
TLAC8T6-B - 6 Ft Deep Standard Channel, Black

Quantity

Standard and Deep Channel Mounting Clips



TLACSC4 Standard

TLACSCA4 Angled

TLACSC4 - Four Standard Channel Mounting Clips
TLACSCA4 - Four Standard Channel Angled Mounting Clips

Quantity

Standard and Deep Channel End Caps



TLAC8TE2 Deep

TLACSE2 Standard

TLACSE2 - Two Standard Channel End Caps, Grey
TLACSE2-B - Two Standard Channel End Caps, Black
TLAC8TE2 - Two Deep Channel End Caps, Grey
TLAC8TE2-B - Two Deep Channel End Caps, Black

Quantity

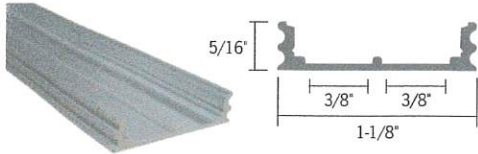
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

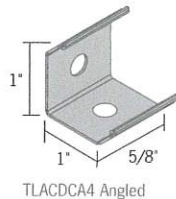
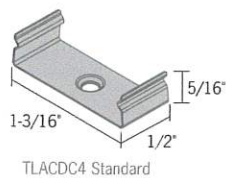
Double Wide Mounting Channel



TLACD6 - 6 Ft Double Wide Channel, Aluminum
TLACD6-B - 6 Ft Double Wide Channel, Black

Quantity

Double Wide Channel Mounting Clips



Double Wide Channel End Caps



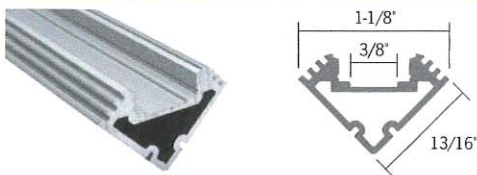
TLACDC4 - Four Double Wide Standard Mounting Clips
TLACDCA4 - Four Double Wide Angled Mounting Clips

Quantity

TLACDE2 - Two Double Wide End Caps, Grey
TLACDE2-B - Two Double Wide End Caps, Black

Quantity

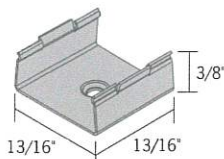
45° Angled Mounting Channel



TLACA6 - 6 Ft 45° Angled Channel, Aluminum
TLACA6-B - 6 Ft 45° Angled Channel, Black

Quantity

45° Angled Channel Mounting Clips



45° Angled Channel End Caps



TLACAC4 - Four Angled Channel Mounting Clips

Quantity

TLACAE2 - Two Angled Channel End Caps, Grey
TLACAE2-B - Two Angled Channel End Caps, Black

Quantity

DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

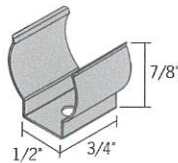
Round Mounting Channel



TLAC06 - 6 Ft Round Channel, Aluminum
TLAC06-B - 6 Ft Round Channel, Black

Quantity

Round Channel Mounting Clips



Round Channel End Caps



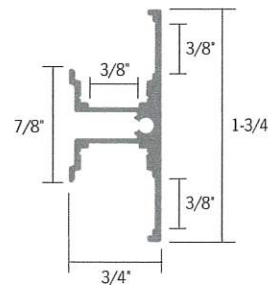
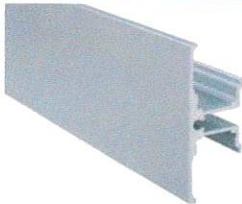
TLAC0C4 - Four Round Mounting Clips

Quantity

TLAC0E2 - Two Round End Caps, Grey
TLAC0E2-B - Two Round End Caps, Black

Quantity

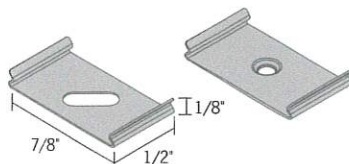
Wall Mount "T" Mounting Channel



TLACT6 - 6 Ft Wall Mount "T" Channel, Aluminum
TLACT6-B - 6 Ft Wall Mount "T" Channel, Black
TLACT6-P - 6 Ft Wall Mount "T" Channel, White

Quantity

Wall Mount "T" Channel Mounting Clips



Wall Mount "T" Channel End Caps



TLACTC4 - Four Wall Mount "T" Channel Mounting Clips

Quantity

TLACTE2 - Two Wall Mount "T" End Caps, Grey
TLACTE2-B - Two Wall Mount "T" End Caps, Black
TLACTE2-P - Two Wall Mount "T" End Caps, White

Quantity

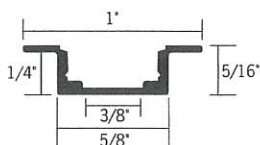
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

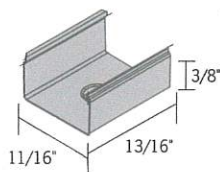
Recessed Mounting Channel



TLACR6 - 6 Ft Recessed Mounting Channel, Aluminum
TLACR6-B - 6 Ft Recessed Mounting Channel, Black

Quantity

Recessed Channel Mounting Clips



TLACRC4 - Four Recessed Mounting Clips

Quantity

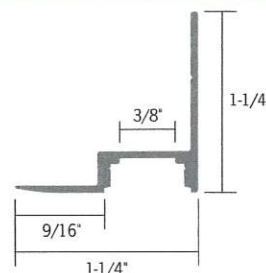
Recessed Channel End Caps



TLACRE2 - Two Recessed End Caps, Grey
TLACRE2-B - Two Recessed End Caps, Black

Quantity

Ceiling Edge Mounting Channel



TLACE6 - 6 Ft Ceiling Edge Channel, Aluminum
TLACE6-B - 6 Ft Ceiling Edge Channel, Black
TLACE6-P - 6 Ft Ceiling Edge Channel, White

Quantity

Ceiling Edge Channel Mounting Clips

Mounting clips are not available for the Ceiling Edge Mount Mounting Channel
 Mount the channel by drilling holes through channel and mounting surface and screwing into place

Ceiling Edge Channel End Caps

End caps are not available for the Ceiling Edge Mount Mounting Channel

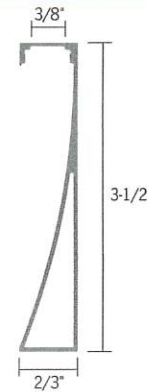
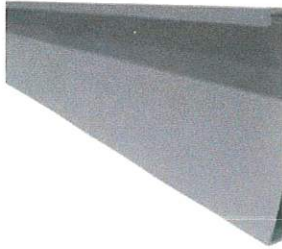
DATE

PROJECT

TYPE

PERFORMANCE LED TAPELIGHT | Mounting Channels and Accessories

Toe Kick Mounting Channel



- TLACK6** - 6' Toe Kick Channel, Aluminum
- TLACK6-B** - 6' Toe Kick Channel, Black
- TLACK6-P** - 6' Toe Kick Channel, White

Quantity

Toe Kick Channel Mounting Clips

Mounting clips are not available for the Toe Kick Mounting Channel
Mount the channel by using construction adhesive or 3M™ VHB™ tape

Toe Kick Channel End Caps



- TLACKE2** - Toe Kick End Caps, Grey
- TLACKE2-B** - Toe Kick End Caps, Black
- TLACKE2-P** - Toe Kick End Caps, White

Quantity

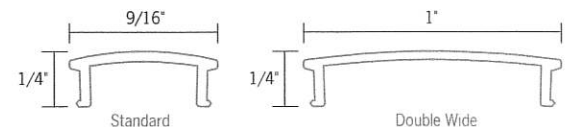
Diffusion Lenses



- Use with mounting channels
- Provides extra protection for the LEDs as well as diffusion to reduce glare

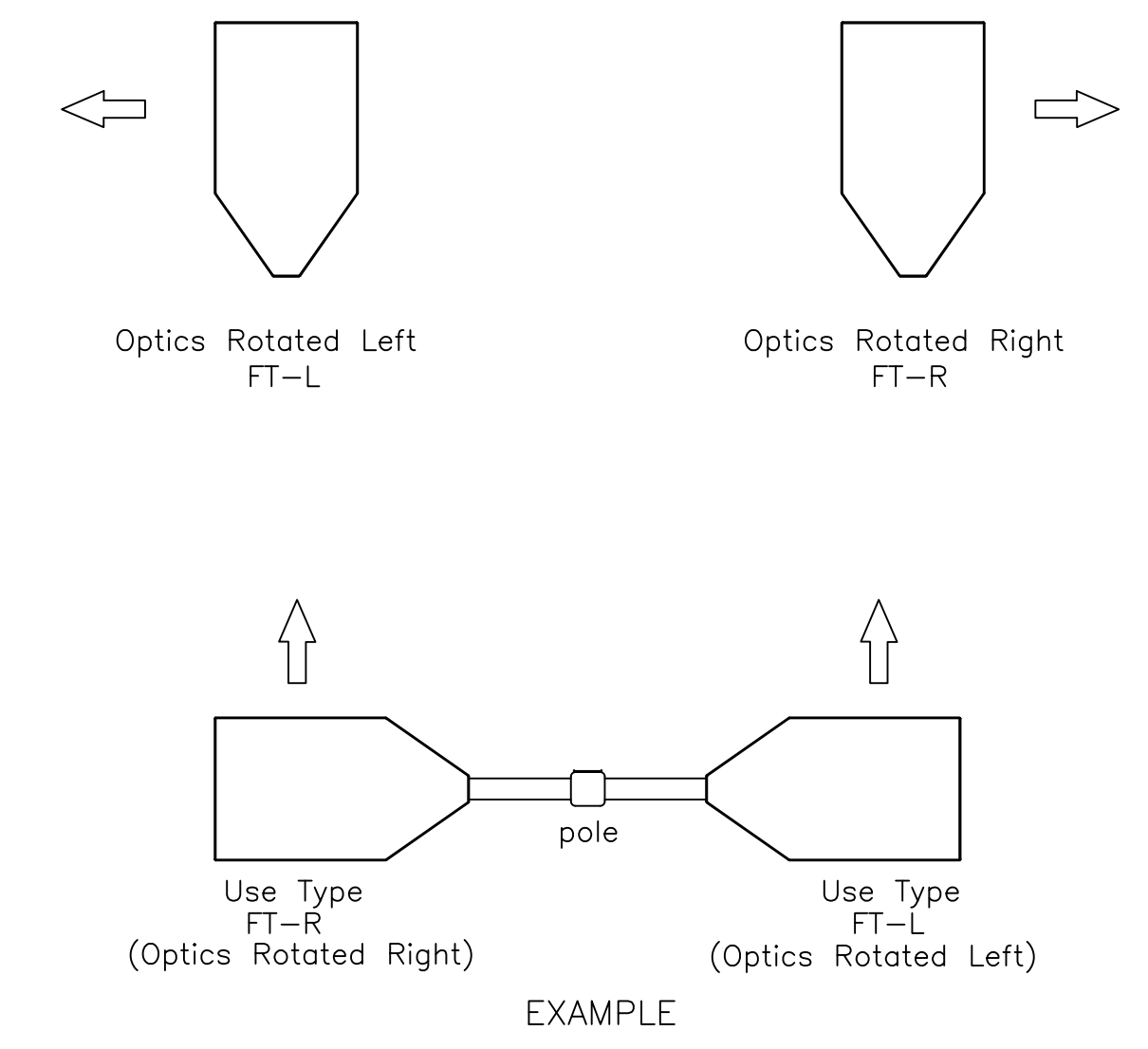
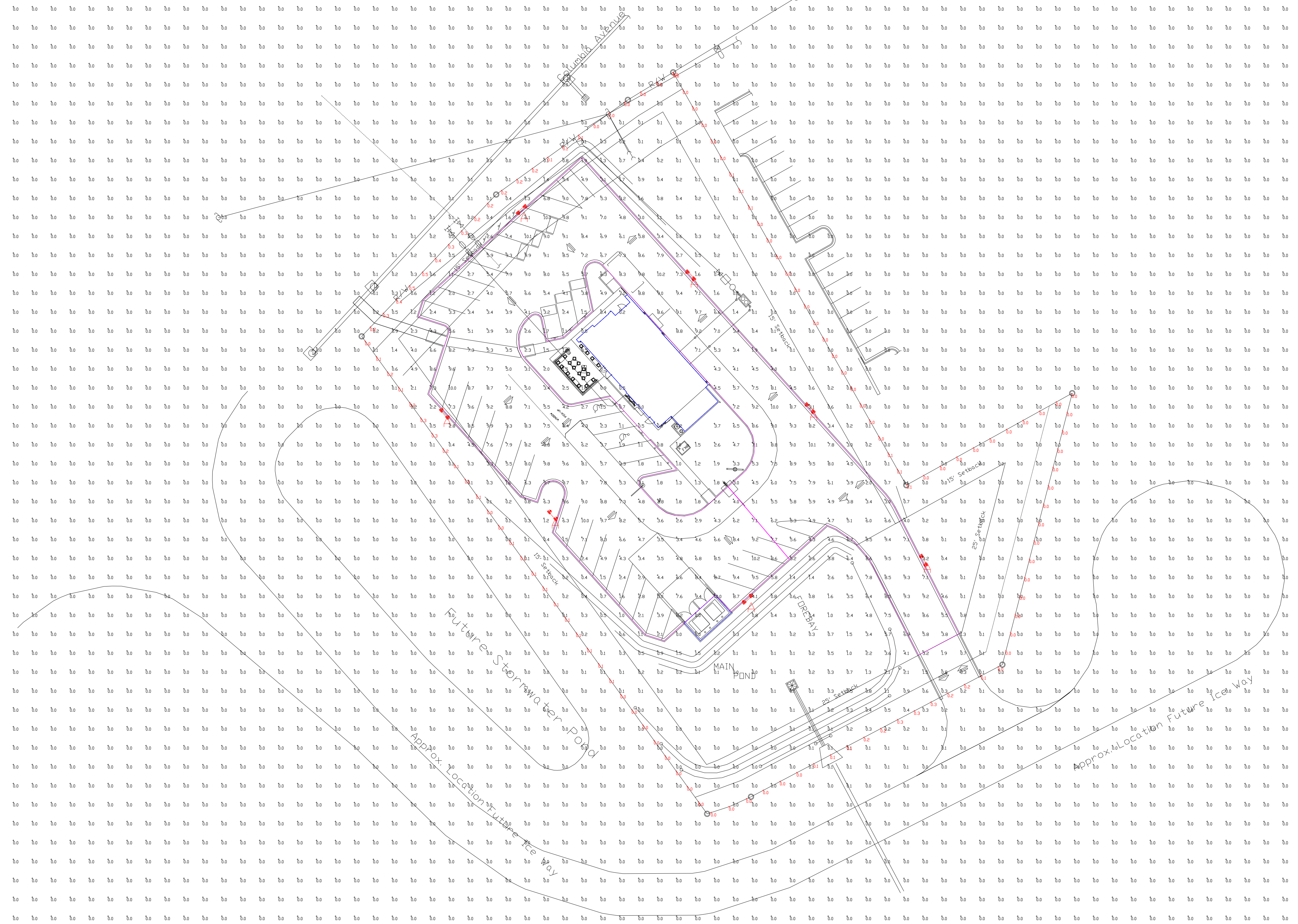
- TLALC6** - 6 Ft Clear Lens
- TLALF6** - 6 Ft Frosted Lens
- TLALCD6** - 6 Ft Double Wide Clear Lens
- TLALFD6** - 6 Ft Double Wide Frosted Lens

Quantity



Dimensions of drawings that have been scaled or converted from PDF files or scanned /submitted images are approximate.

The IES no longer uses the Cutoff Classification System for LED fixtures. The IES classifies LED fixtures with the BUG rating which refers to the Backlight-Uplight-Glare system. An Uplight of 'U0' most closely matches the old Full Cutoff rating.



For D180 Forward Throw installations specify left rotated optics (FT-L) and/or right rotated optics (FT-R) side mounting. Orientation is based on standing at the pole and looking out at the area to be illuminated.

Top View
Fixture Type A

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALCS @ GRADE - 10'x10'	Illuminance	Fc	0.63	10.2	0.0	N.A.	N.A.
PROPERTY BOUNDARY	Illuminance	Fc	0.08	0.5	0.0	N.A.	N.A.
PAVED AREA	Illuminance	Fc	6.34	10.2	1.1	5.76	9.27

LIGHTS SUPPLIED BY LSI INDUSTRIES
 CONTACT: Alan Tapscott
 PH: 919-803-9247
 EMAIL: a.tapscott@shannonandassoc.com

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with the Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

Luminaire Schedule											
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts	BUG Rating	
	7	A	D180° 2RTD	SLM-LED-24L-SIL-(1)FT-L;(1)FT-R-50-IL-70CRI-D180RTD	23' POLE + 2' BASE	1.000	1.000	32402	322	B1-U0-G3	

Total Project Watts
Total Watts = 2254



1800 ALLIANCE BL. CHAPEL HILL, NC 27514 USA
 (919) 793-2004 • FAX (919) 793-8897

LIGHTING PROPOSAL LD-161300

WENDYS
 COLUMBIA AVE
 CHAPIN, SC

BY:DK DATE:08/22/24 REV: SHEET 1 OF 1

SCALE: 1"=30'