

Planning Commission Staff Report

Project type: Amended Site Development Section Plan

Meeting Date: June 13, 2022

From: Shilpi Bharti, Planner *SB*

Location: 17100 Chesterfield Airport Road

Description: **Chesterfield Commons, Lot 14 (Hawaiian Bros) ASDSP:** An Amended Site Development Section Plan, Landscape Plan, Lighting Plan and Amended Architectural Elevations for a fast food drive-up restaurant located on 1.94-acre tract of land located west of Chesterfield Commons Drive and south of Chesterfield Airport Road, zoned “C8”- Planned Commercial.

PROPOSAL SUMMARY

Hawaiian Bros has submitted an Amended Site Development Section Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations for a proposed fast food, drive-thru restaurant located at 17100 Chesterfield Airport Road.

Proposed Development includes:

- Renovation of existing restaurant
- New Outdoor seating
- Relocating Trash enclosure
- Stacking space for two drive-thru service
- Landscaping
- Lighting Plan
- Photometric Plan



Figure 1: Subject Location

HISTORY OF SUBJECT SITE

The subject site was rezoned from NU and M3 to C8 under City of Chesterfield Ordinance 1344. In 2000, the site was developed following City Ordinance number 1600. From 2000 to 2018, there have been many amendments to the Chesterfield Commons subdivision ordinance to allow flexibility in hours of operation and permitted use. The current ordinance governing the site is City Ordinance 3024 approved in 2018.

STAFF ANALYSIS

The Amended Site Development plan includes two drive-thru lanes, three service windows, new outdoor dining area, relocating trash enclosure from back of the existing building to the southwest corner of the site. There are 95 parking spaces provided on site that complies with the City of Chesterfield Unified Development Code. The proposed Landscape Plan includes landscaping around the building area and does not disturb the existing landscaping along Chesterfield Commons Drive, THF Boulevard and Chesterfield Airport Road. The detail analysis of the site following the City of Chesterfield Unified Development Code for Site design is described below:

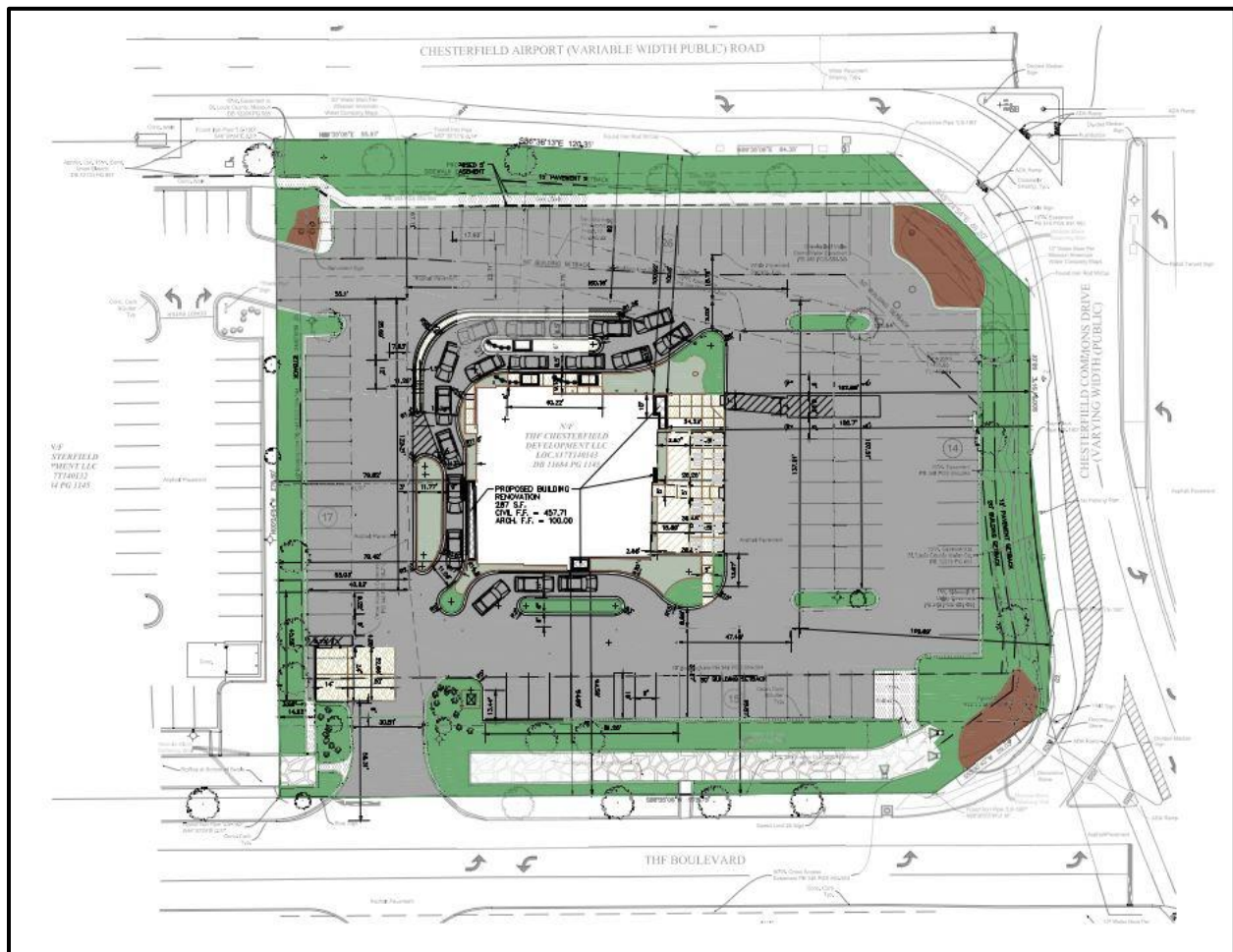


Figure 2: Colored Site Plan

Site Relationships, Circulation System and Access

The existing building is 4,993 square feet on 1.94 acres of land. The subject site is Outlot 14 of Chesterfield Commons Subdivision. The renovated building is a single story building 24'-8" high. There are 95 parking spaces provided on the site which exceeds the minimum parking requirement as per City of Chesterfield Unified Development Code. The site can be accessed through THF Boulevard.

Elevation

There are three main materials used on the exterior of this building; tan brick, brown wood longboard siding, and solid gray longboard. A light house element is proposed on the north side facing Chesterfield Airport Road. This light element would have a decorative mural on the north side elevation that will light up at night and can be seen at all times of the day and night. A 6' tall trash enclosure is provided on the southwest side of the site near the access.

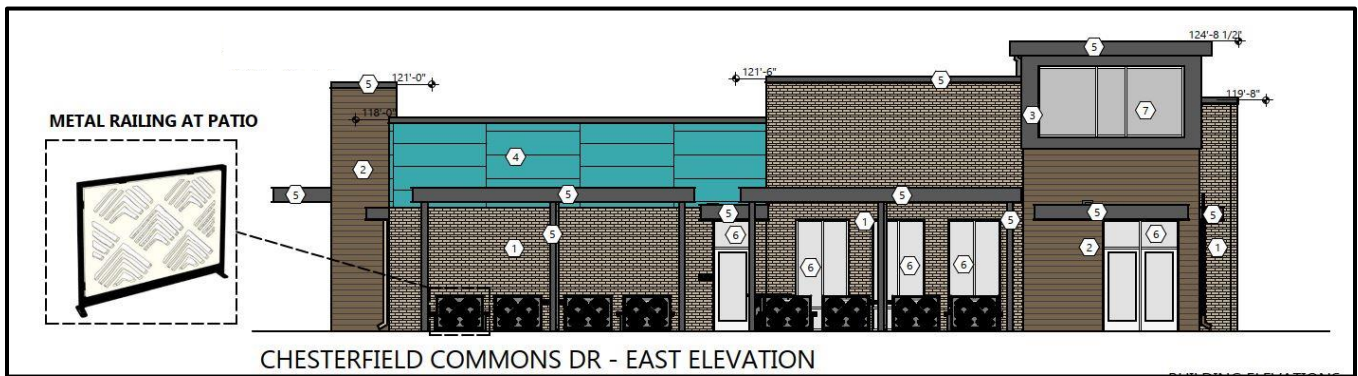


Figure 3: East side Elevation facing Chesterfield Commons Drive



Figure 4: North side Elevation facing Chesterfield Airport Road

Lighting

There are eight (8) different types of light fixtures proposed for this development. There are six (6) pole lights and twenty-seven (27) down lights. Additionally, the building is illuminated by white LED lighting running along the roof.



Figure 5: Building lights

Landscaping

The proposed Landscape Plan of the site consists of three (3) different types of tree canopies, ten (10) different types of shrubs, two (2) types of perennials plant, and three (3) different types of groundcovers that will be around the building. The existing landscaping along the north, east, south and west will remain the same. The Landscape Plan is included in the packet.

Rendering



Figure 6: View from Chesterfield Airport Road

ARB Meeting Report

The project was reviewed by the Architectural Review Board on May 12, 2022. At that time, the Board made a motion to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, and Amended Architectural Elevations to the Planning Commission with a recommendation to approve as presented. In the meeting there was a discussion to provide information on the drive-thru restaurants whose menu board faces the Chesterfield Airport Road. Since then staff researched the topic and found that there are three sites (Chick-fil-A, Hardee's, and Sonic) that have the menu board facing the Chesterfield Airport Road.

DEPARTMENTAL INPUT

Staff has reviewed this proposed development and found it to be in compliance with the City's Unified Development Code and site-specific ordinances. All outstanding comments have been addressed at this time. Staff has no further comment, Planning Commission may vote on this tonight.

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) the Amended Site Development Section Plan, Landscape Plan, Lighting Plan and Amended Architectural Elevations for Chesterfield Commons, Outlot 14 (Hawaiian Bros.) as presented."
- 2) "I move to approve the Amended Site Development Section Plan, Landscape Plan, Lighting Plan and Amended Architectural Elevations for Chesterfield Commons, Outlot 14 (Hawaiian Bros.) with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: Amended Site Development Section Plan Packet

Hawaiian Bros
Date: April 25, 2022
Project Number: 2164200

Architect's Statement

City of Chesterfield Design Guidelines

General Requirements for Site Design

- **Site relationship**

The majority of the existing footprint will be utilized for this building remodel. The building area increased slightly to provide some exterior visual interest along with providing space for better interior circulation and exterior site circulation with drive thru windows. Originally the site had 127 parking stalls but due to the decrees in occupant count we removed close to 30 stalls this allowed up to add additional landscaping along with some patio spaces. The location of the front entrance has been relocated to the east elevation to be closer to the larger field of parking (where the majority of the patrons wanting to dine in will be coming from).

- **Circulation system and access**

Changing the location of the front entrance allows us the create a better circulation path around the site. The site is set up to help guide you in a counter clockwise direction with easy access to the drive thru and online order pickup lines.

Access to the site remains largely the same. Existing single access on the southwest potion of the property with access to the adjacent property at the northwest corner of the property. No new curb cuts to access roads will be required.

- **Topography**

Site Topography will be only modified to provide drainage in new drive thru access drives. Landscape areas around the perimeter of the site will not be changed.

- **Retaining walls**

No additional retaining walls were used on this project

General Requirements for Building Design

- **Scale**

- **Building Scale:** The height of the building increases marginally. Material changes and canopies were used to reduce the building scale. The building height is to scale of the surrounding properties.
- **Human Scale:** The use of sunshades, canopies, and decorative screens allows us to keep the human scale around the building façade
- **Generic Scale:** by stepping the façade of the building this allowed up to change the material of the façade without change the scale of the building. There are roads on three sides of the building breaking up the scale from most adjacent buildings. To the west, the building height is close to scale of the remainder of buildings on the strip.

- **Design**

The building is designed with all sides having interest as the public will be circulating around the entire building. There is no façade with less interest than the others. A “light house” element was added to the façade facing the main street. This light element would have a decorative mural. The goal is to have the mural lite up at night the decorative piece of art can be see at all times of the day and night.

- **Materials and Colors**

There are four main materials used on the exterior of this building. Tan brick to match the development. Brown wood look longboard siding on building bump outs. Solid gray longboard on the tower element which will match the accent gray canopies/building trim. EIFS painted the Hawaiian Bros standard SW Aquarium. The EIFS will also have a pattern of reveals to create additional visual interest. The aquarium provides a pop of color to the exterior façade.

- **Landscape design and screening**

Landscaping will be used around the building will be redone to be more in light with the Hawaiian bros brand. The existing mature trees around the perimeter of the site will main untouched. In addition, there will be an area of artificial turf next to the exterior dining for kids to play on.

- **Signage**

All proposed signage will adhere to unified development code (UDC). Signage vendor to submit for separate signage permit.

- **Lighting**

All proposed lighting will adhere to unified development code (UDC)

- **Existing structures**

The building existing has incorporated the existing structure into one cohesive design.

Specific requirements for the Chesterfield Valley

- **Facades**

Sunshades, pergolas, and other element were added to the façade to give the building depth. This also creates an opportunity to highlight different aspects of the building with exterior lighting and downlighting from the parapet cap.

Trash enclosures has been screened. Materials of the trash enclosure match the materials on the building to create a more cohesive design.

- **Storage**

There is no outdoor storage of goods, equipment or automobiles.

- **Utilities**

All new site utilities will be installed underground

- **Parking**

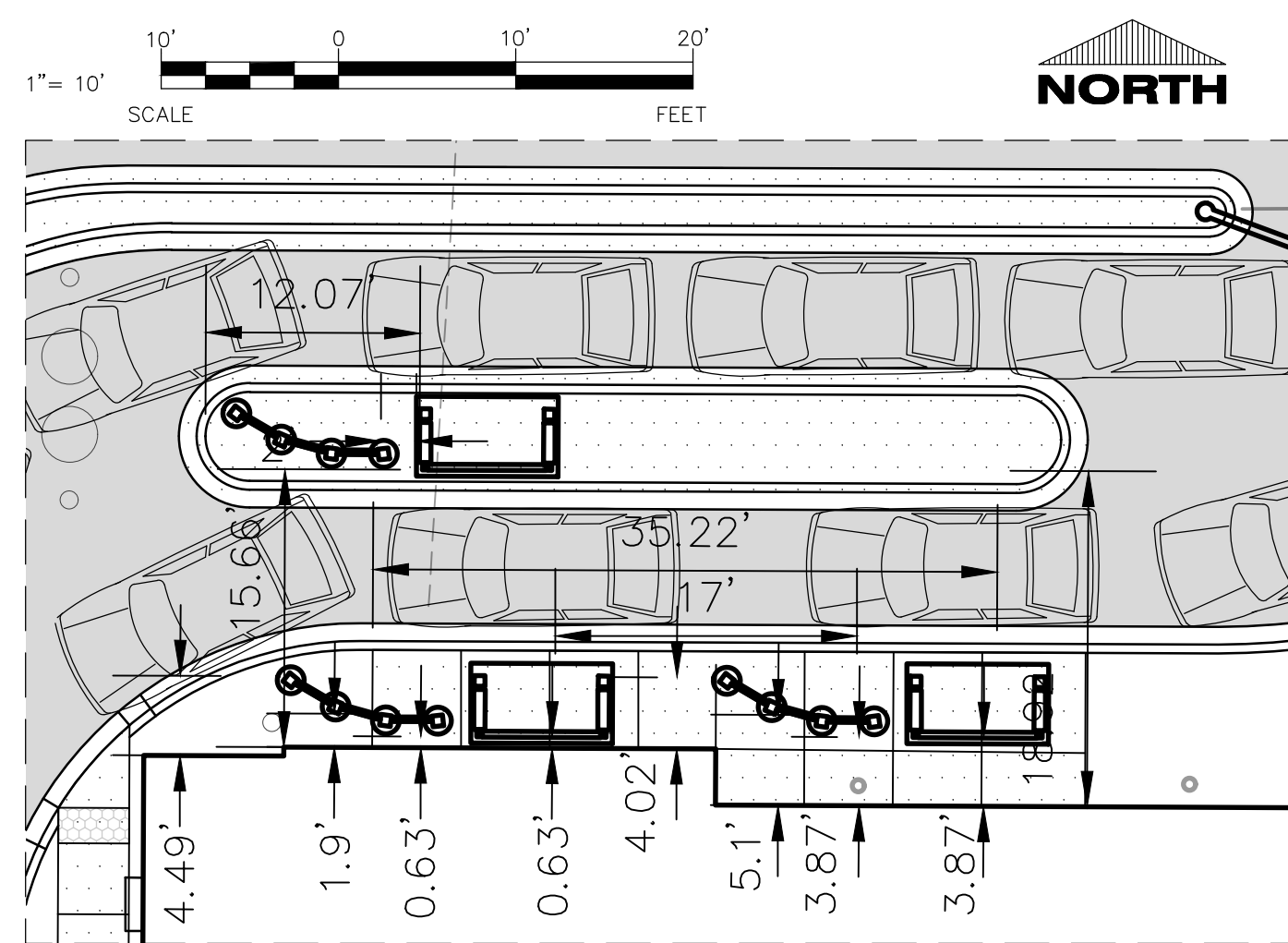
Location of the parking lot remains the same as the existing parking lot.

Sincerely,

Excel Engineering, Inc.



Jay Johnson
Principal



SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

NOTE 1:
PARKING LOT TO BE PATCHED, SEALED AND RESTRIPTED

NOTE 2:
CONTRACTOR TO PROVIDE ALTERNATE PRICE TO REMOVE AND REPLACE EXISTING ASPHALT.

NOTE 3:
CONTRACTOR TO TRENCH AT DETECTION LOOPS

SITE INFORMATION:

LEGAL DESCRIPTION: "Resubdivision of lots 1, 2, 3, 4, 5, & 7 of Chesterfield Commons" as recorded in Plat Book 349 Pages 710 through 712 of the St. Louis County Records.

PROPERTY AREA: AREA = 84,299 S.F. (1.94 ACRES).

EXISTING ZONING: C8 - PLANNED COMMERCIAL DISTRICT

PROPOSED ZONING: C8 - PLANNED COMMERCIAL DISTRICT

PROPOSED USE: QUICK-SERVE WITH DRIVE-THROUGH

AREA OF SITE DISTURBANCE: 3,548 S.F. (SURFACE COVER CHANGE)

SETBACKS: BUILDING: FRONT = 50'
SIDE (WEST) = 10'
REAR = 50'
SIDE (EAST) = 20'

PAVEMENT: FRONT = 15'
SIDE (EAST) = 15'

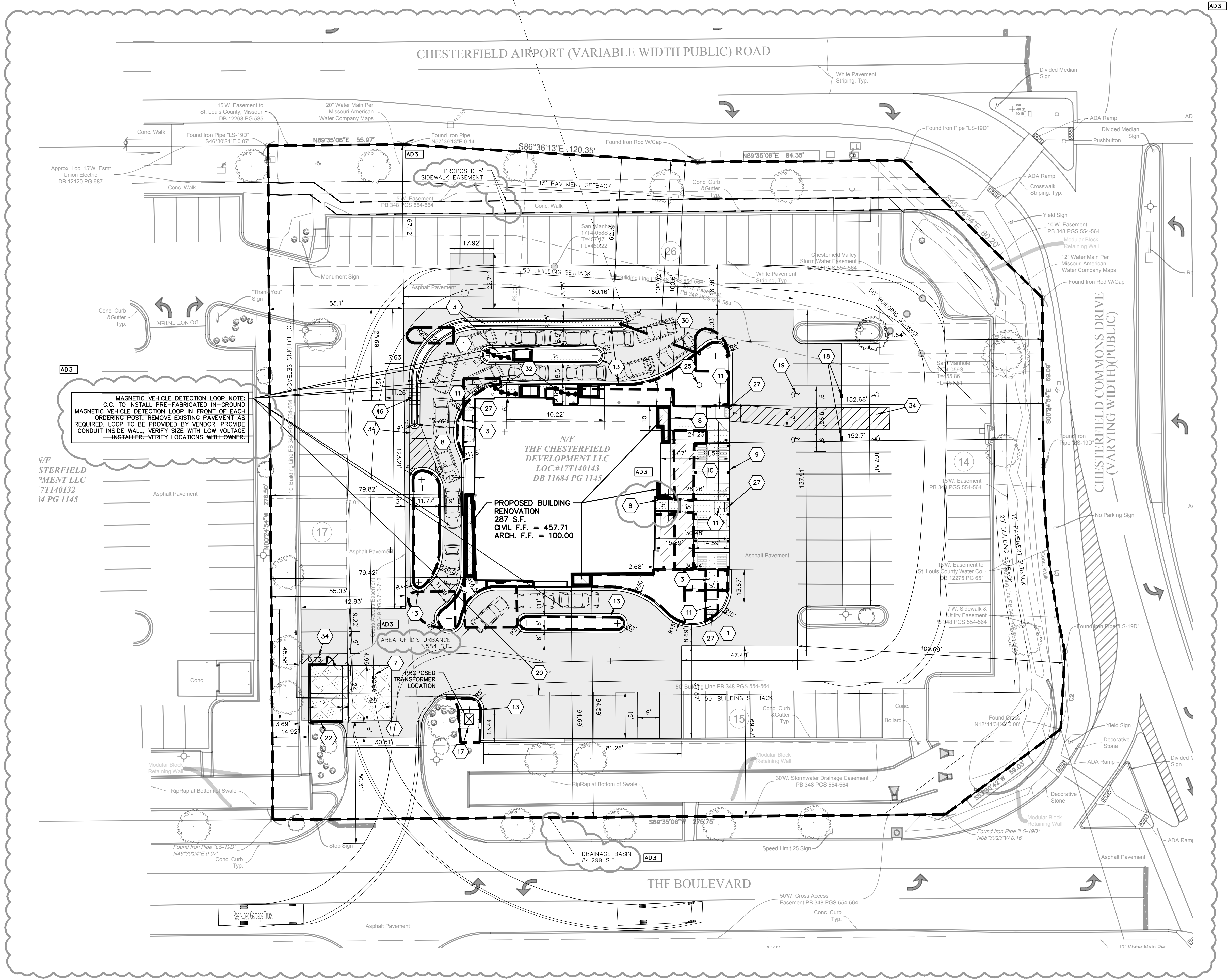
PROPOSED BUILDING HEIGHT: 24'8" (MAX. HEIGHT ALLOWED: 45')

PARKING REQUIRED: 15 SPACES PER 1,000 S.F. (85 SPACES REQ.)
MAX. OF 102 PARKING STALLS

PARKING PROVIDED: 95 SPACES (4 H.C. ACCESSIBLE)

HANDICAP STALLS REQUIRED: 4, HANDICAP STALLS PROVIDED: 4

REGIONAL STORM WATER MANAGEMENT DESIGN: 90% IMPERVIOUS
SITE PROVIDED: 79.5%



SITE PLAN KEYNOTES

- PROPOSED ASPHALT SECTION (TYP.)
- SIDEWALK CONCRETE (TYP.)
- DUMPSTER PAD/APRON CONCRETE (TYP.)
- CONCRETE STOOP (TYP.) SEE ARCH. PLANS FOR DETAILS.
- RAISED WALK (TYP.)
- PATIO SEATING. FINAL LAYOUT TBD.
- CURB RAMP (TYP.)
- 18" CURB & GUTTER (TYP.)
- CURB CUT (TYP.)
- CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO CONSTRUCTION)
- HANDICAP SIGN (TYP.)
- HANDICAP STALL & STRIPING PER STATE CODES
- HAWAIIAN BROS PICKUP PARKING PAVEMENT MARKINGS. VERIFY LOCATIONS WITH OWNER.
- DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
- FLAGPOLE (TYP.)
- DETECTABLE WARNING PLATE
- PROPOSED CLEARANCE POLE. INSTALLED BY CONTRACTOR AND VENDOR (SEE ARCH PLANS FOR DETAILS).
- PROPOSED MENU BOARD. PROVIDED AND INSTALLED BY VENDOR.
- STRIPING (TYP.)

EXISTING SITE DATA

	AREA (AC)	PI	AREA (SF)	Q (cfs)	RATIO
PROJECT SITE	1.94		84,299		
BUILDING FLOOR AREA	0.13	4.20	5,563	0.55	6.6%
PAVEMENT (ASP. & CONC.)	1.45	3.54	63,148	5.13	74.9%
TOTAL IMPERVIOUS	1.58		68,711		81.5%
LANDSCAPE/ OPEN SPACE	0.36	1.70	15,588	0.61	18.5%
TOTAL				6.29	

PROPOSED SITE DATA

	AREA (AC)	PI	AREA (SF)	Q (cfs)	RATIO
PROJECT SITE	1.94		84,299		
BUILDING FLOOR AREA	0.13	4.20	5,650	0.55	6.7%
PAVEMENT (ASP. & CONC.)	1.42	3.54	61,895	5.03	73.4%
TOTAL IMPERVIOUS	1.55		67,545		80.1%
LANDSCAPE/ OPEN SPACE	0.38	1.70	16,754	0.65	19.9%
TOTAL				6.23	

MAGNETIC VEHICLE DETECTION LOOP NOTE:
G.C. TO INSTALL PRE-FABRICATED IN-GROUND MAGNETIC VEHICLE DETECTION LOOP IN FRONT OF EACH ORDERING POST. REMOVE EXISTING PAVEMENT AS REQUIRED. LOOP TO BE PROVIDED BY VENDOR. PROVIDE CONDUIT INSIDE WALL. VERIFY SIZE WITH LOW VOLTAGE INSTALLER. VERIFY LOCATIONS WITH OWNER.

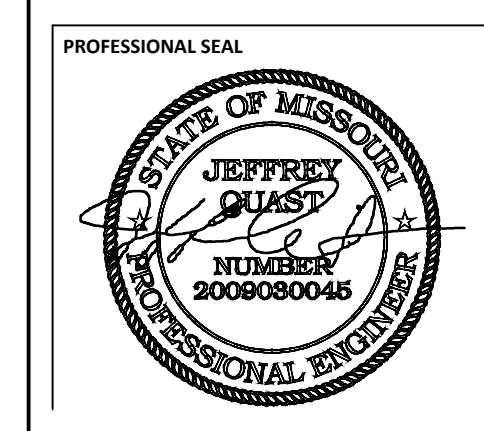
PAVEMENT HATCH KEY:

- PROPOSED ASPHALT
- SIDEWALK CONCRETE
- DUMPSTER CONCRETE
- TURFING



PROJECT INFORMATION

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005



SHEET DATES

SHEET ISSUE: DEC. 9, 2021

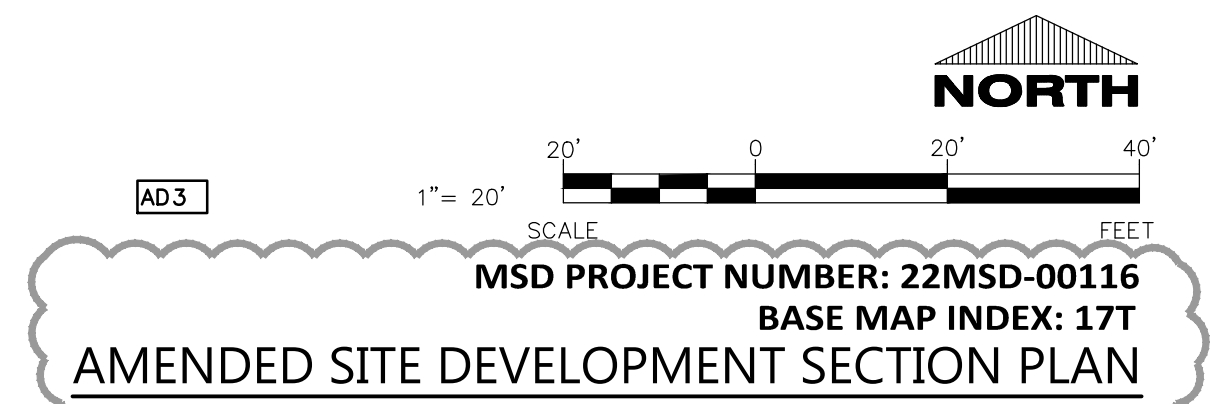
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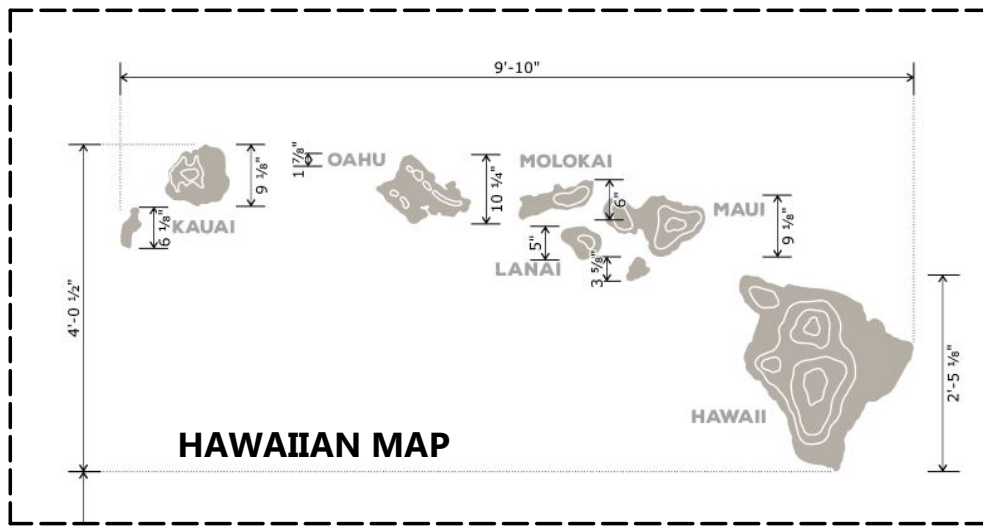
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AD2	MAR. 16, 2022
AD3	APR. 18, 2022

JOB NUMBER
2164200

SHEET NUMBER

C1.1

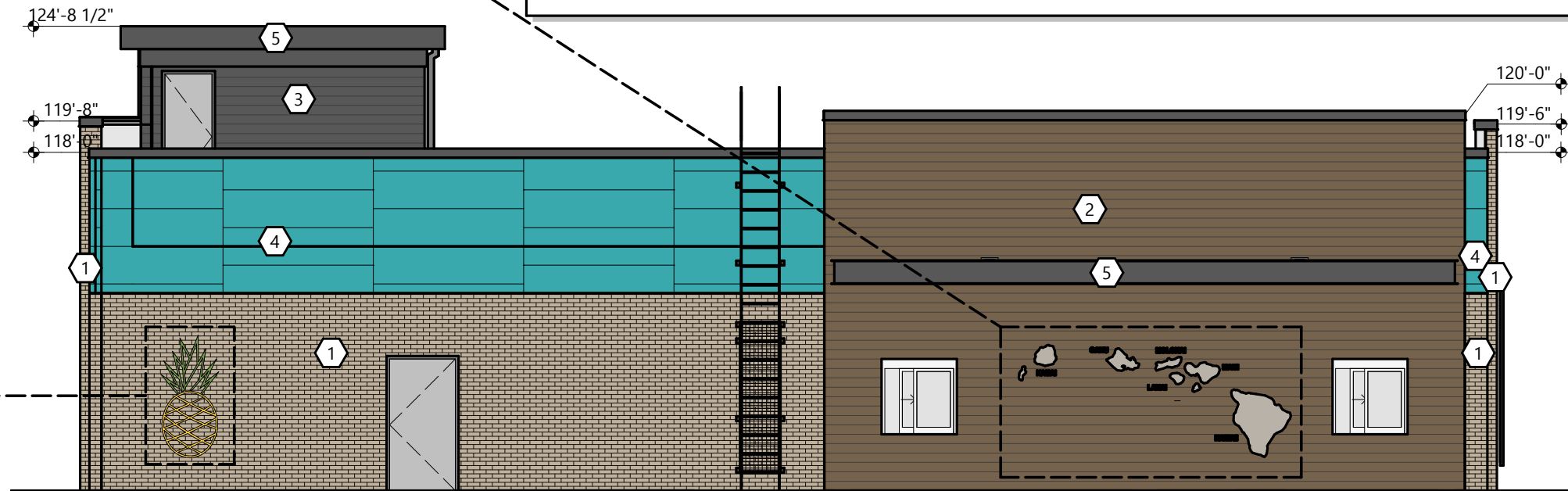
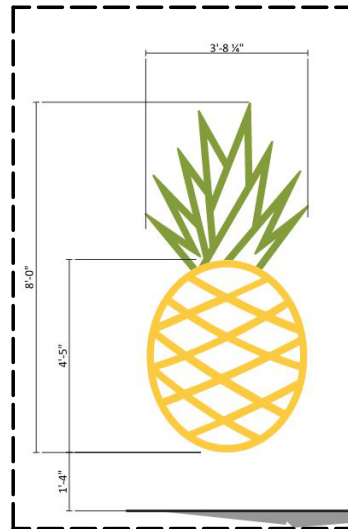




EXTERIOR MATERIAL KEY

- 1 THIN BRICK**
MFR: GLEN-GERY
STYLE: EXTRUDED
TEXTURE: SMOOTH
COLOR: PEARL RIVER
- 2 WOOD LOOK ALUMINUM SIDING & SOFFIT (LONGBOARD)**
PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL
MATERIAL: HEAVY GAUGE ALUMINUM
COLOR: LIGHT NATIONAL WALNUT
- 3 ALUMINUM SIDING & SOFFIT (LONGBOARD)**
PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL
MATERIAL: HEAVY GAUGE ALUMINUM
COLOR: CHARCOAL
- 4 EIFS**
MFR: DRYVIT
TEXTURE: SANDBLAST
COLOR: SW 6767 AQUARIUM (PAINTED)
- 5 STEEL/METAL COPING**
METAL COPING MATERIAL: PAC CLAD 24 GAUGE STEEL
COLOR: PRIMED AND FIELD PAINTED (SW 7674 PEPPERCORN)
- 6 GLAZING**
PPG INDUSTRIES, INC.
SOLARBAN 60 GRAY
- 7 GLAZING**
PPG INDUSTRIES, INC.
SOLARBAN 60 CLEAR

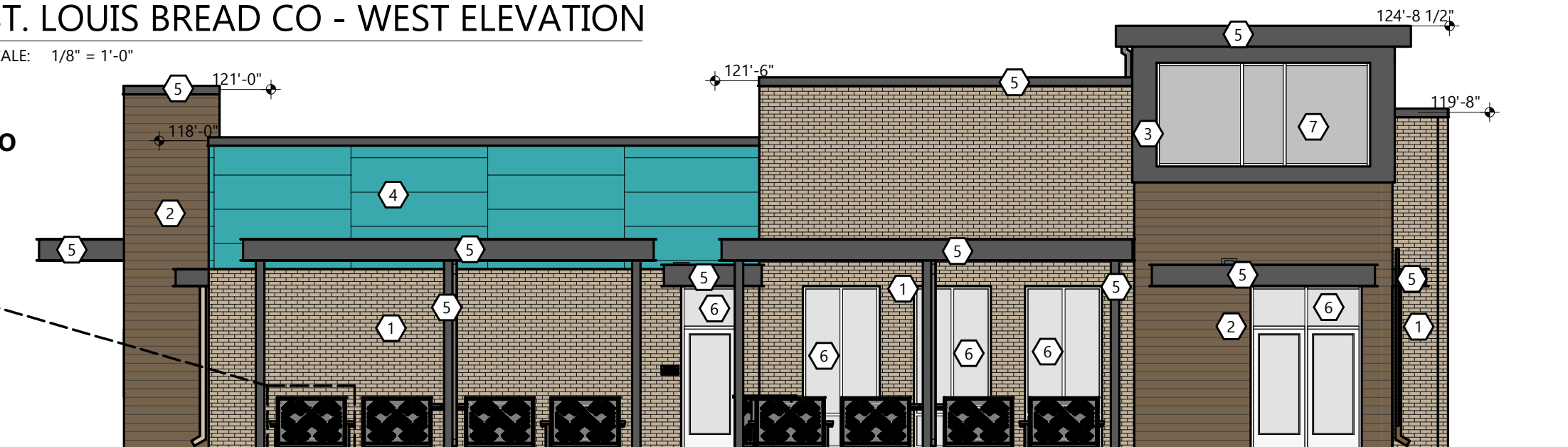
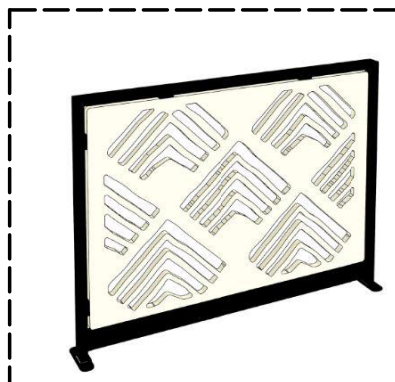
PINEAPPLE ART



ST. LOUIS BREAD CO - WEST ELEVATION

SCALE: 1/8" = 1'-0"

METAL RAILING AT PATIO



CHESTERFIELD COMMONS DR - EAST ELEVATION

SCALE: 1/8" = 1'-0"

BUILDING ELEVATIONS

EXCEL
ARCHITECTS • ENGINEERS • SURVEYORS
Always a Better Plan
100 Camelot Drive
Fond Du Lac, WI 54935
Phone: (920) 926-9800
www.EXCELENGINEER.com

PROJECT INFO

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO
63005

PRELIMINARY DATES

APR. 22, 2022
APR. 29, 2022

JOB NUMBER

2164200

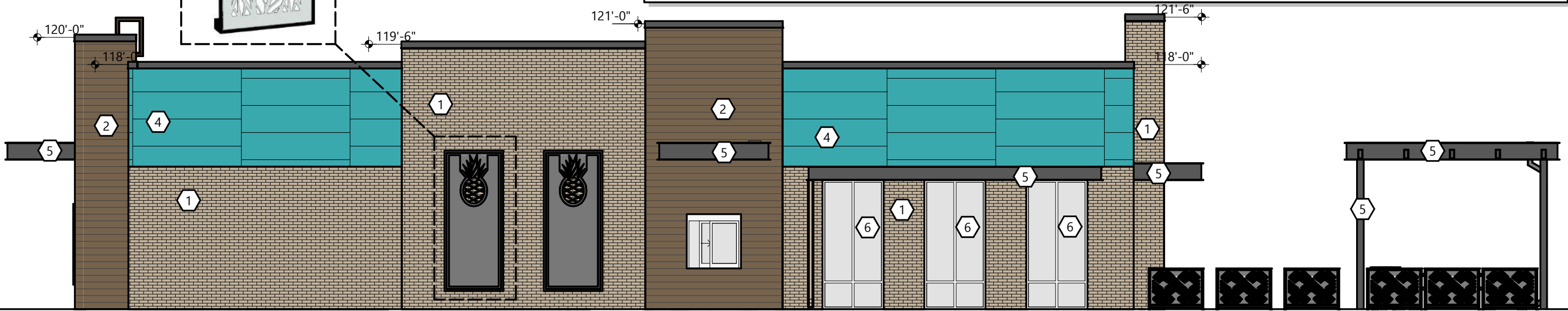
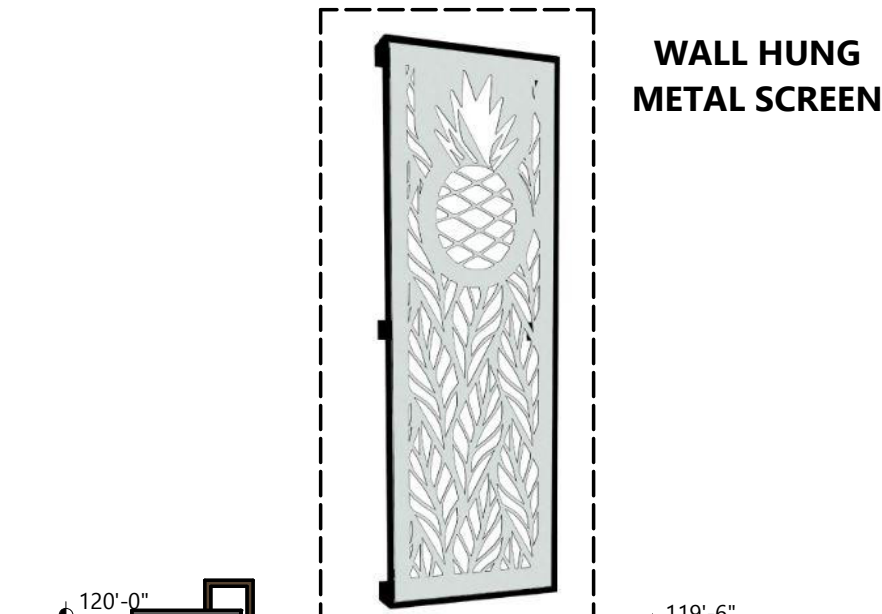
SHEET NUMBER

A20

NOT FOR CONSTRUCTION

EXTERIOR MATERIAL KEY

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	WOOD LOOK ALUMINUM SIDING & SOFFIT (LONGBOARD) PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL MATERIAL: HEAVY GAUGE ALUMINUM COLOR: LIGHT NATIONAL WALNUT		GLAZING PPG INDUSTRIES, INC. SOLARBAN 60 GRAY
	ALUMINUM SIDING & SOFFIT (LONGBOARD) PRODUCT: LONGBOARD 6" - V-GROOVE SIDING PANEL MATERIAL: HEAVY GAUGE ALUMINUM COLOR: CHARCOAL		GLAZING PPG INDUSTRIES, INC. SOLARBAN 60 CLEAR
	EIFS MFR: DRYVIT TEXTURE: SANDBLAST COLOR: SW 6767 AQUARIUM (PAINTED)		



(THF BLVD)
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



(CHESTERFIELD AIRPORT ROAD)
NORTH ELEVATION

SCALE: 1/8" = 1'-0"

PROJECT INFO

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PRELIMINARY DATES

APR. 22, 2022
APR. 29, 2022

NOT FOR CONSTRUCTION

JOB NUMBER

2164200

SHEET NUMBER

A21

PROJECT INFO

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PRELIMINARY DATES

APR. 22, 2022

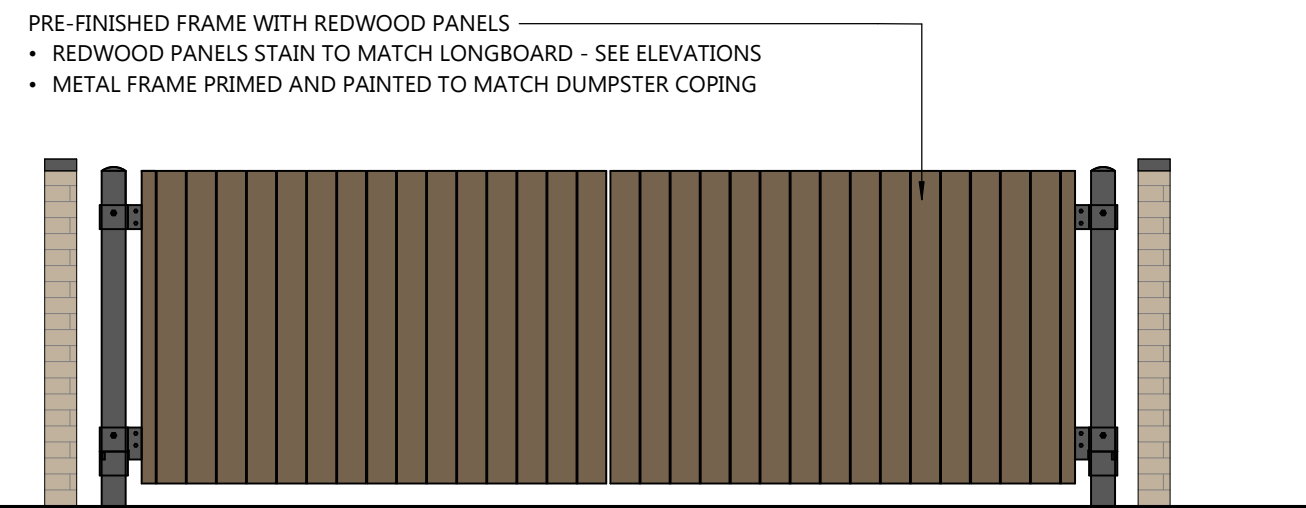
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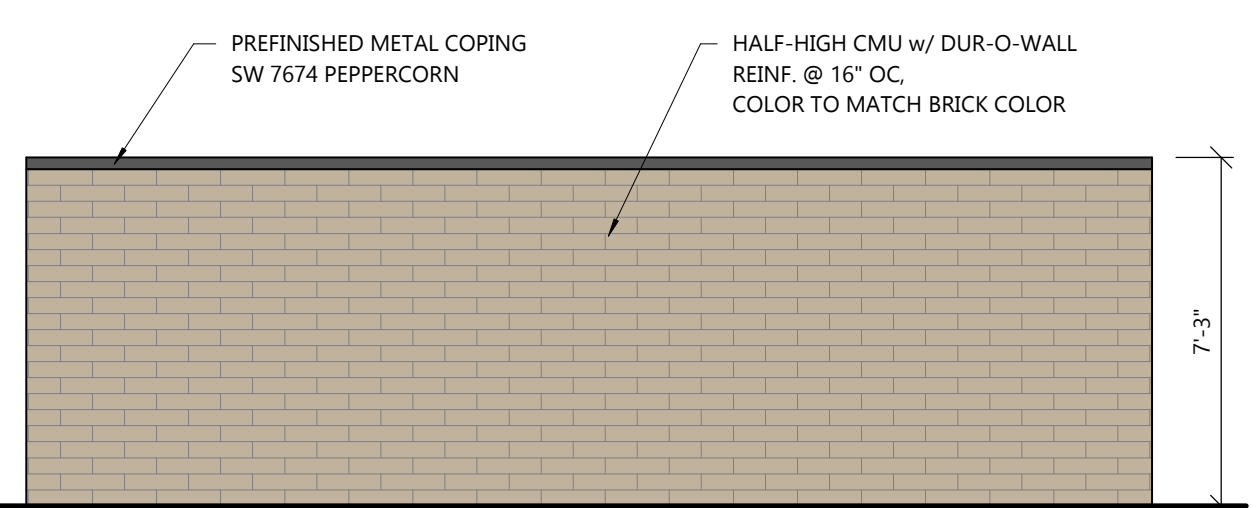
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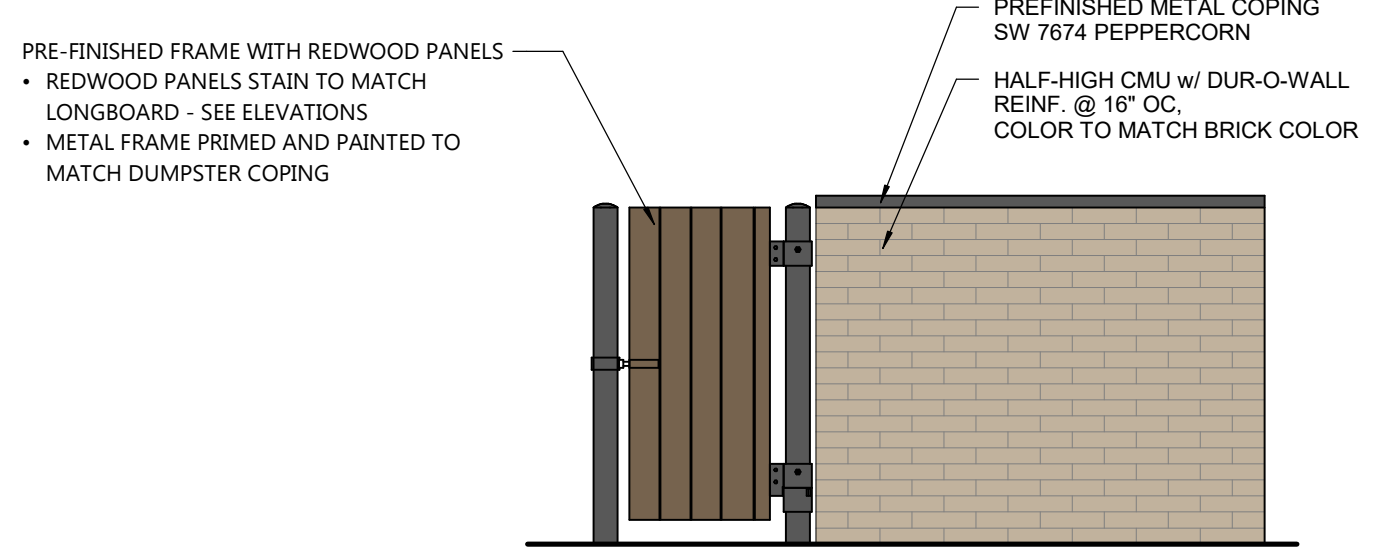
FRONT ELEVATIONS

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



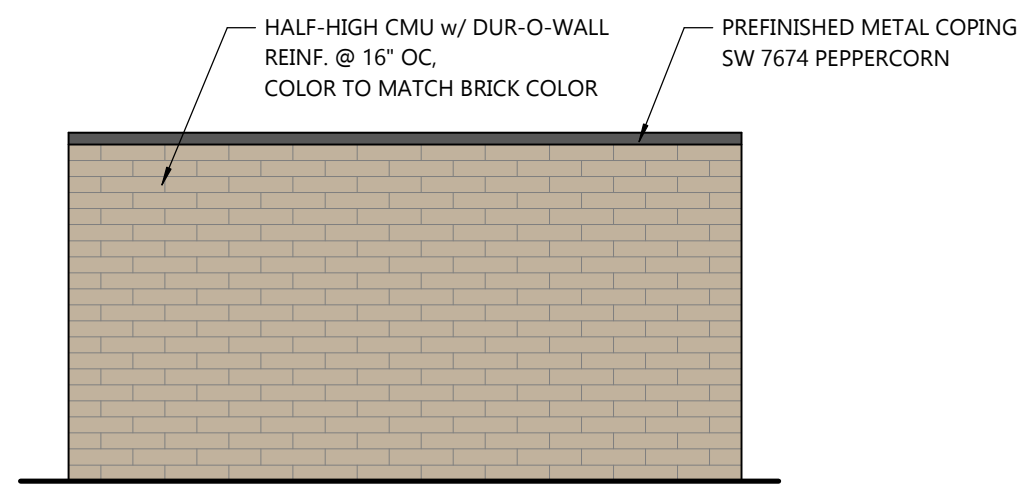
BACK ELEVATION

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



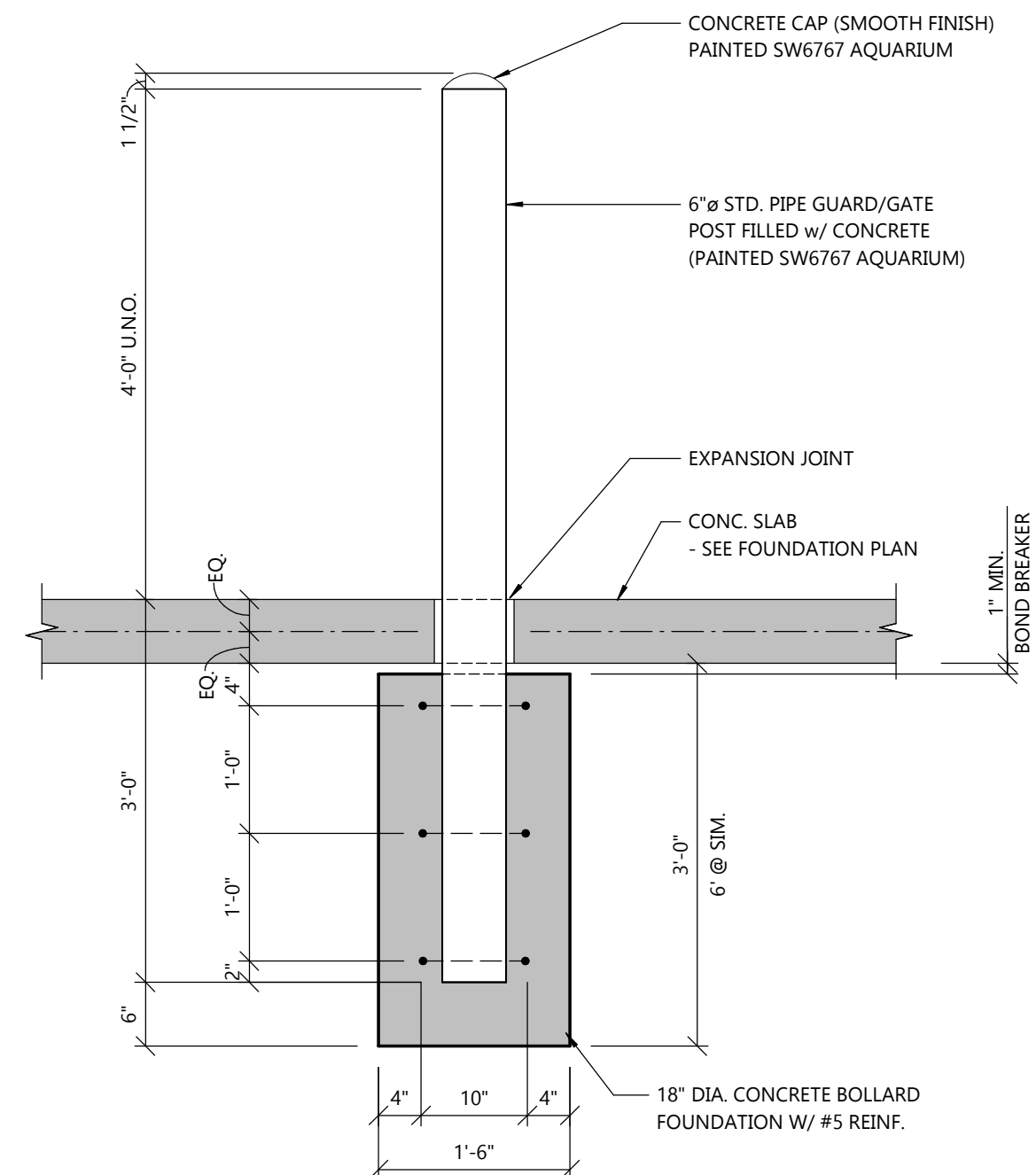
RIGHT ELEVATION

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

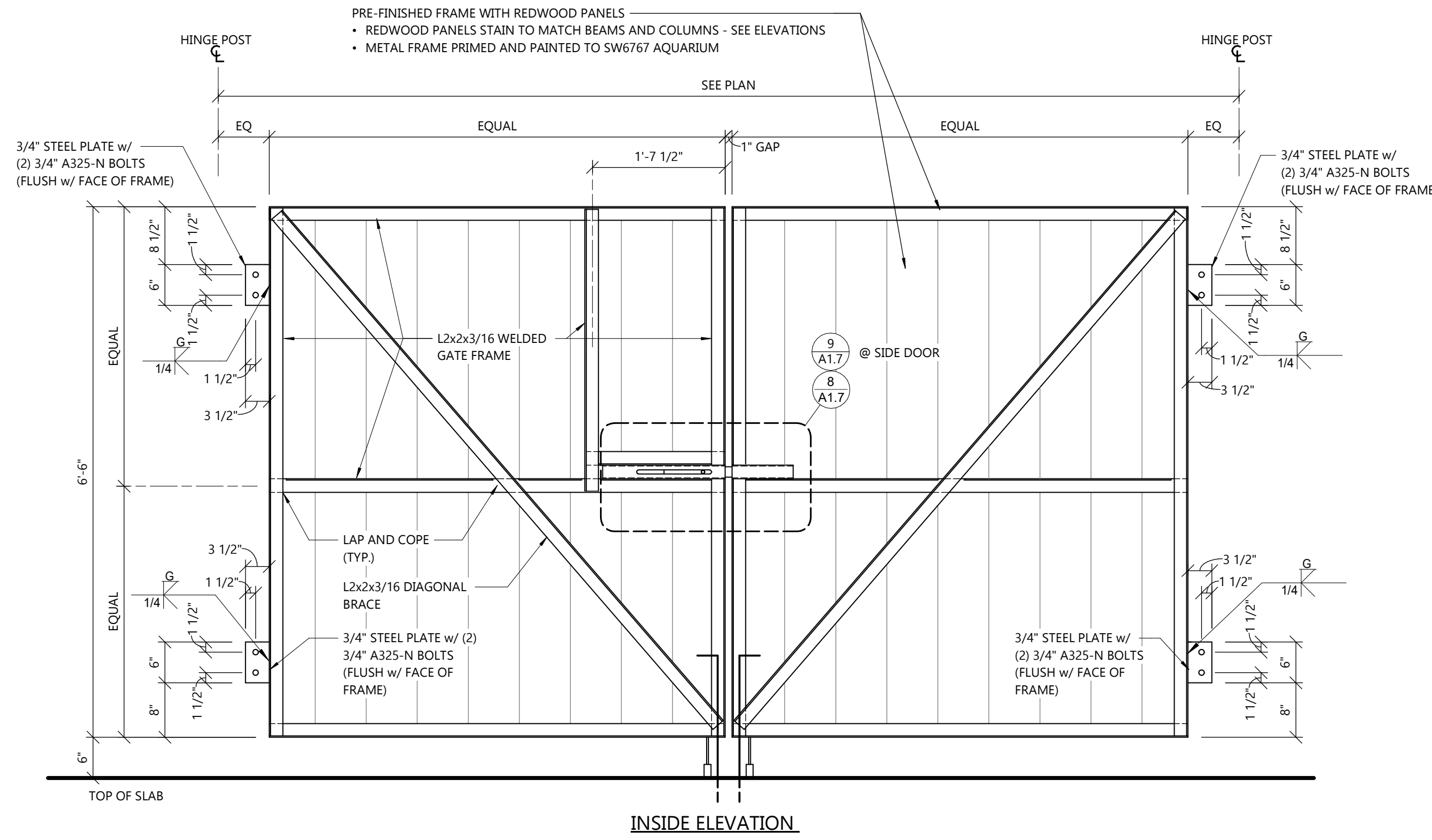


LEFT ELEVATION

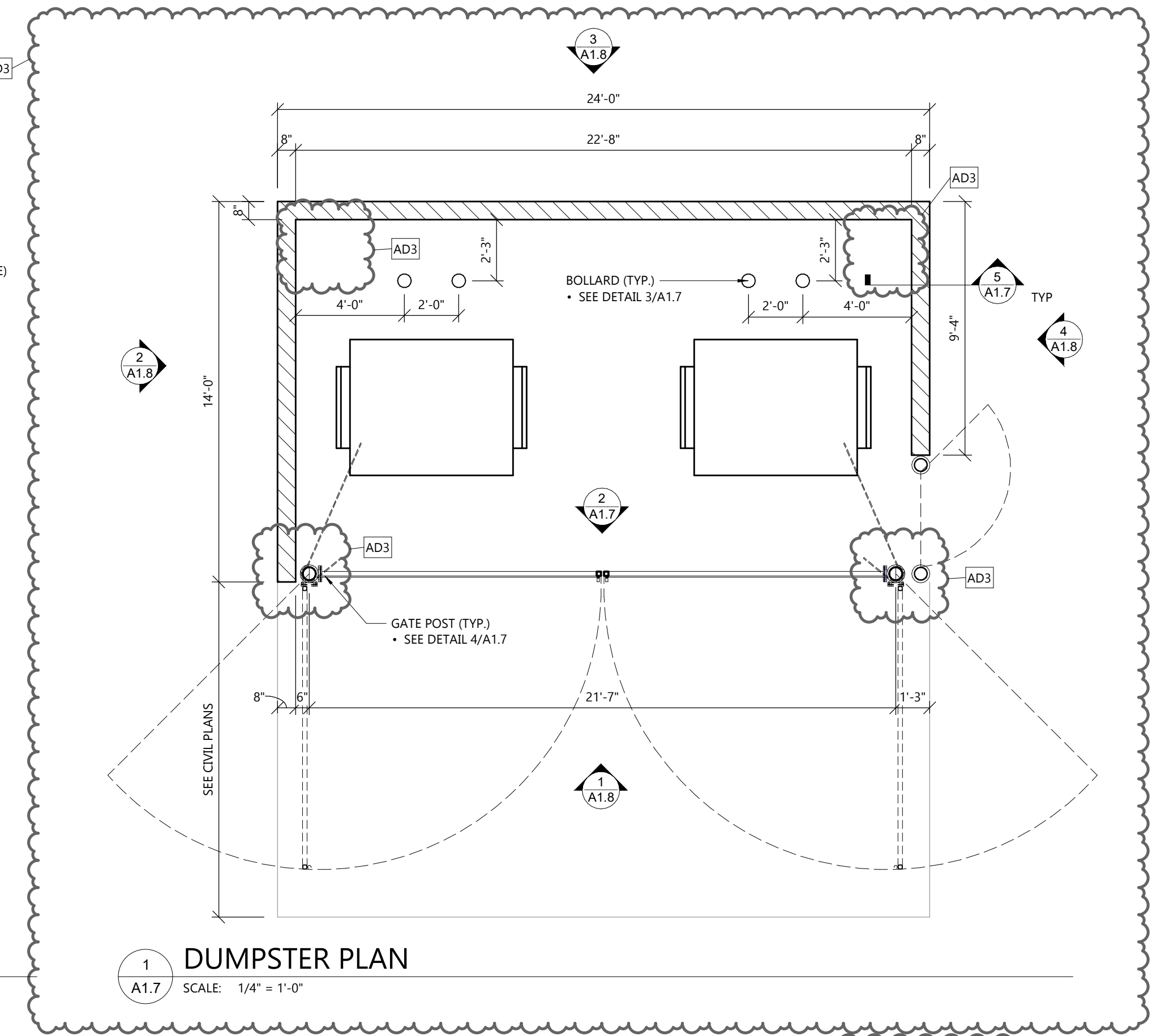
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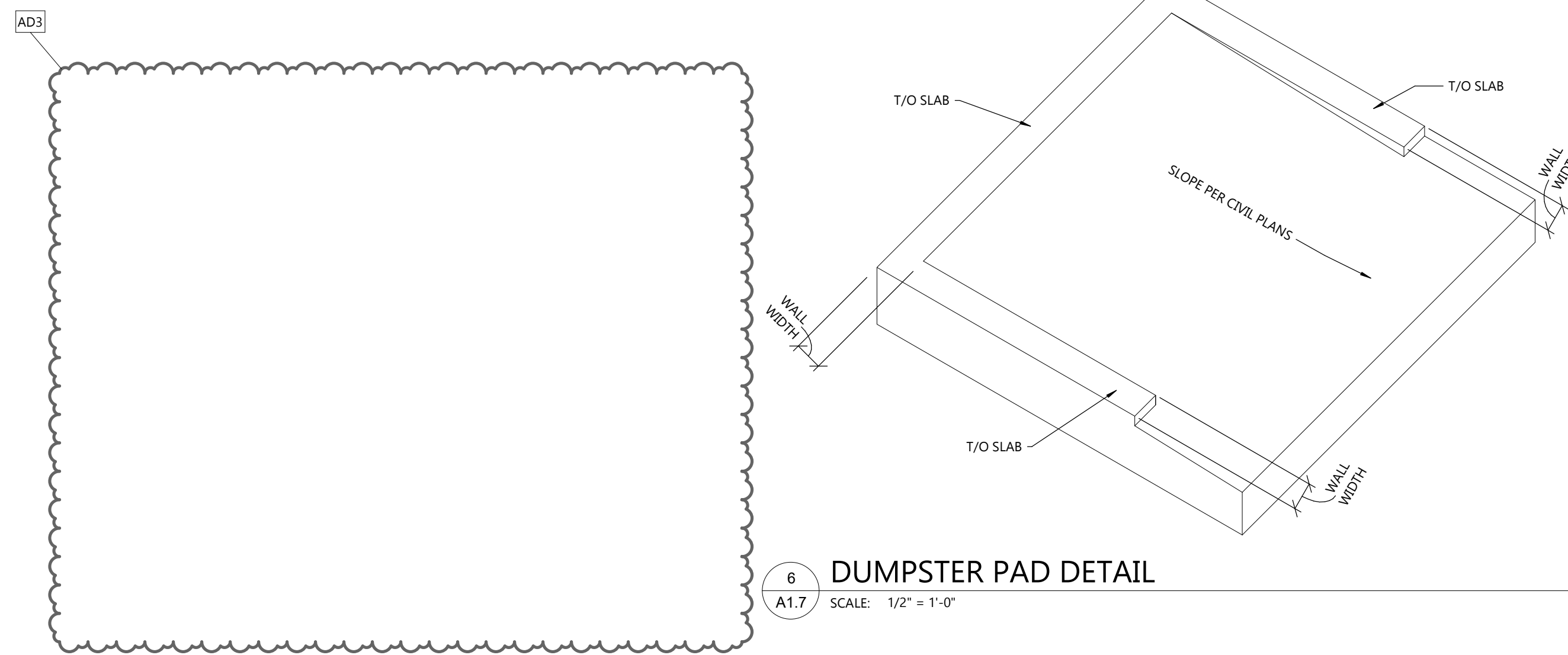
3 BOLLARD DETAIL
 A1.7 SCALE: 3/4" = 1'-0"



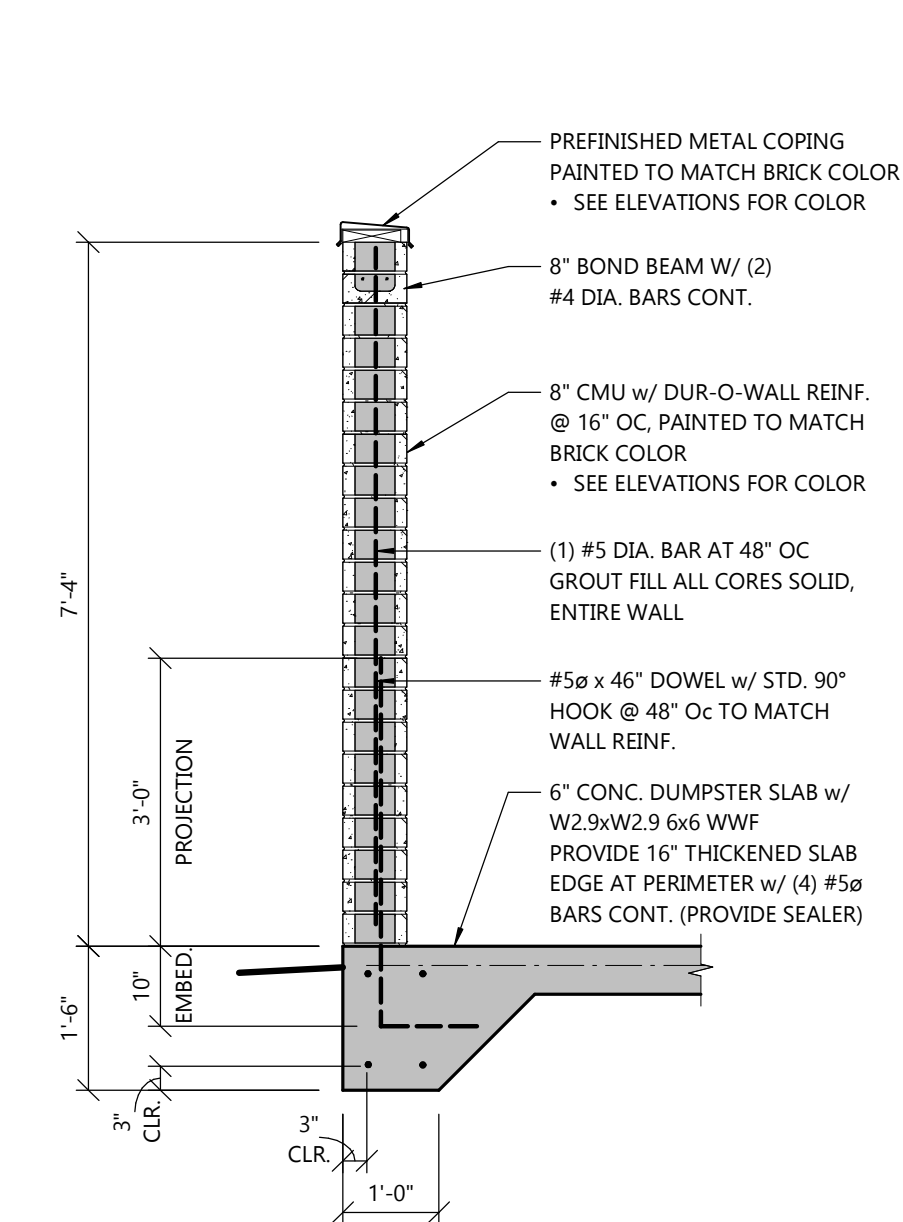
2 DUMPSTER GATE ELEVATION
 A1.7 SCALE: 3/4" = 1'-0"



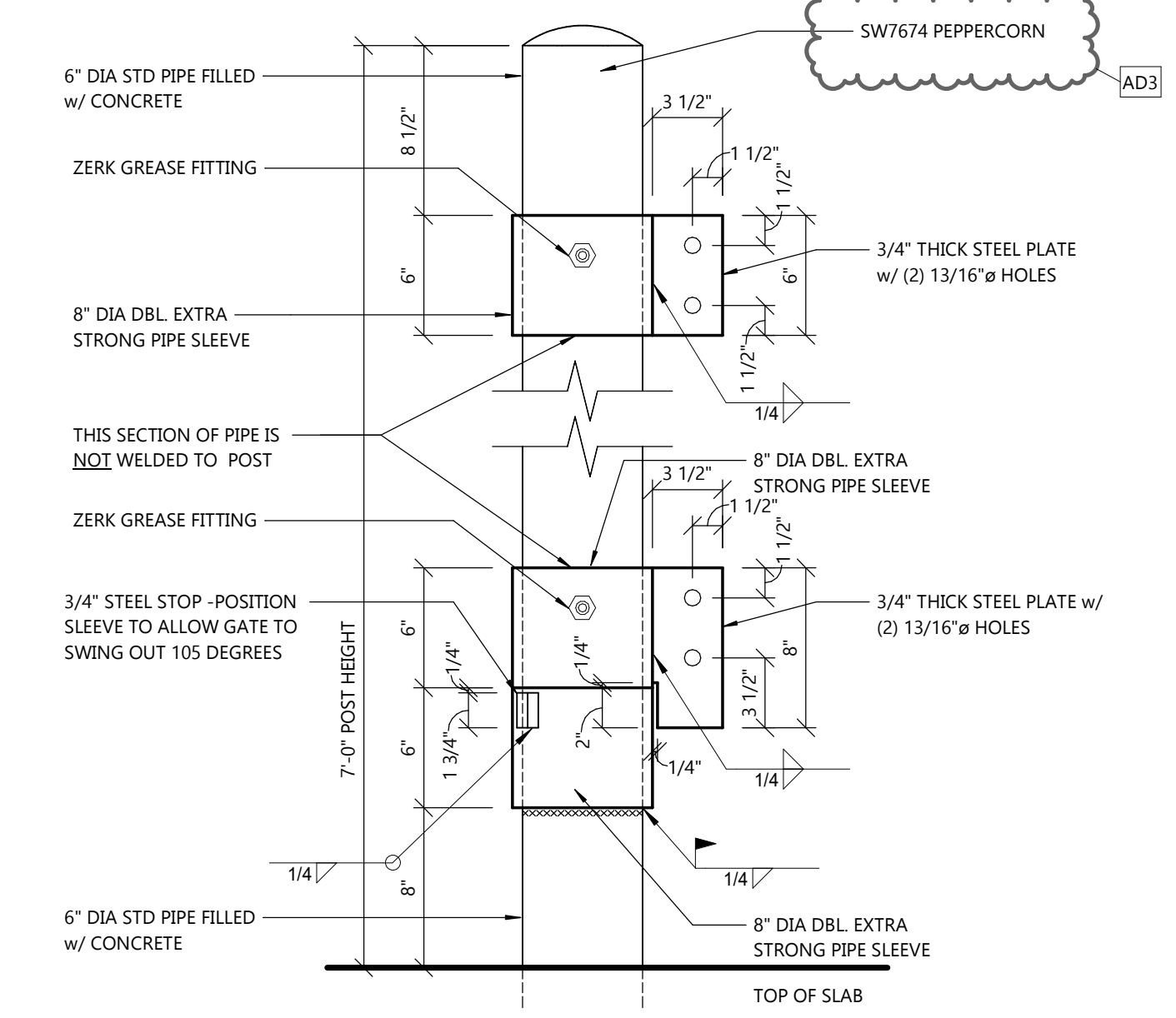
1 DUMPSTER PLAN
 A1.7 SCALE: 1/4" = 1'-0"



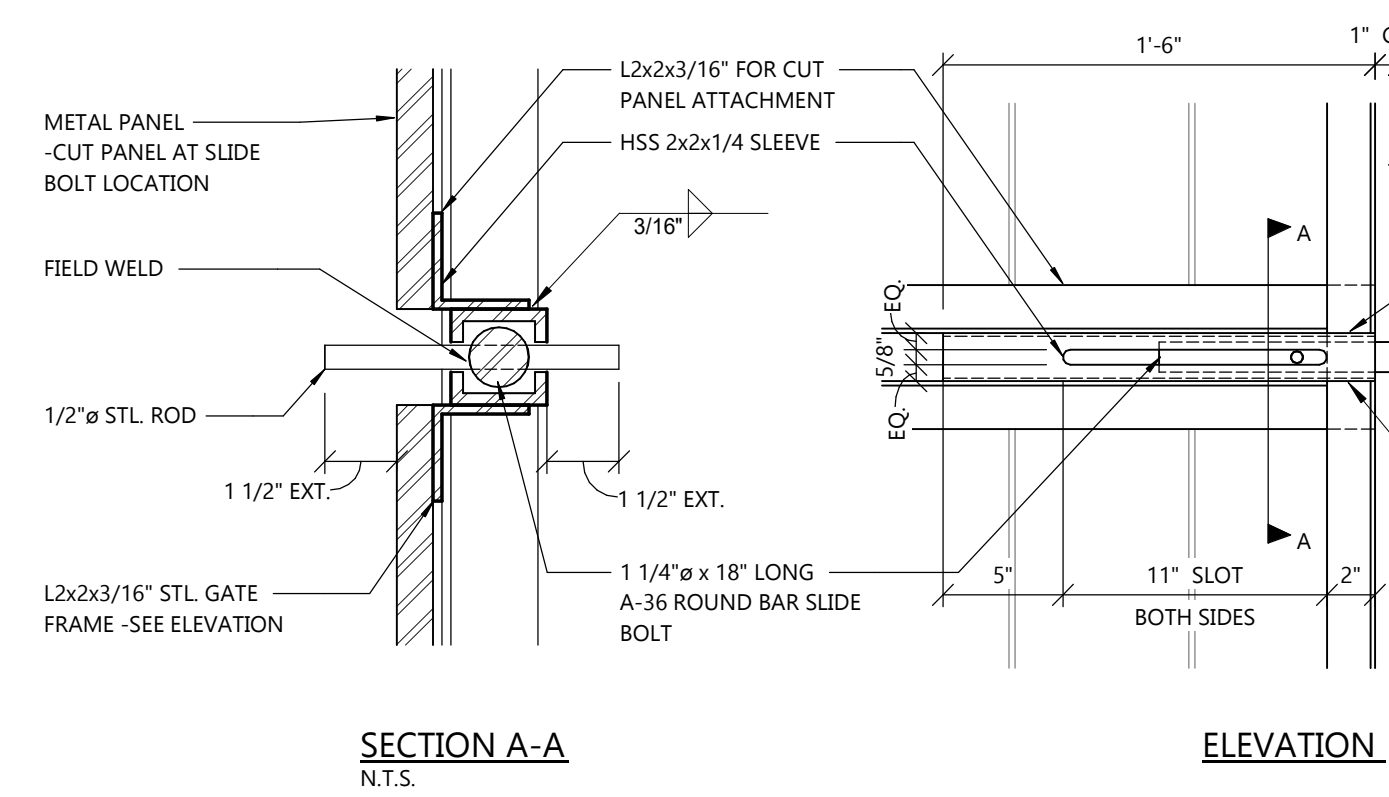
6 DUMPSTER PAD DETAIL
 A1.7 SCALE: 1/2" = 1'-0"



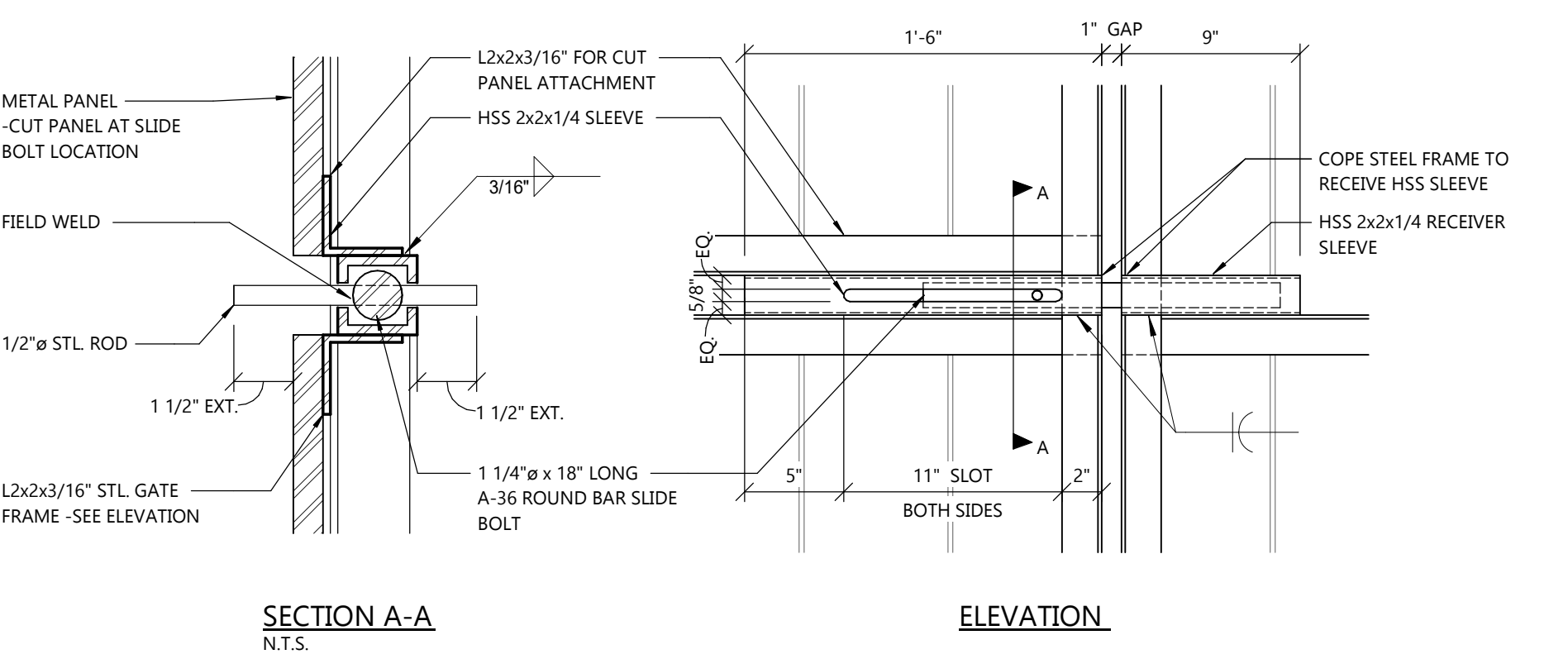
5 DUMPSTER WALL SECTION
 A1.7 SCALE: 1/2" = 1'-0"



4 GATE HINGE DETAIL
 A1.7 SCALE: 1 1/2" = 1'-0"



9 SIDE GATE LATCH
 A1.7 SCALE: 1 1/2" = 1'-0"



8 GATE SLIDE BOLT
 A1.7 SCALE: 1 1/2" = 1'-0"

PROFESSIONAL SEAL

SHEET DATES

SHEET ISSUE	DEC. 9, 2021
REVISIONS	
AD1	JAN. 27, 2022
AD3	APR. 18, 2022

JOB NUMBER

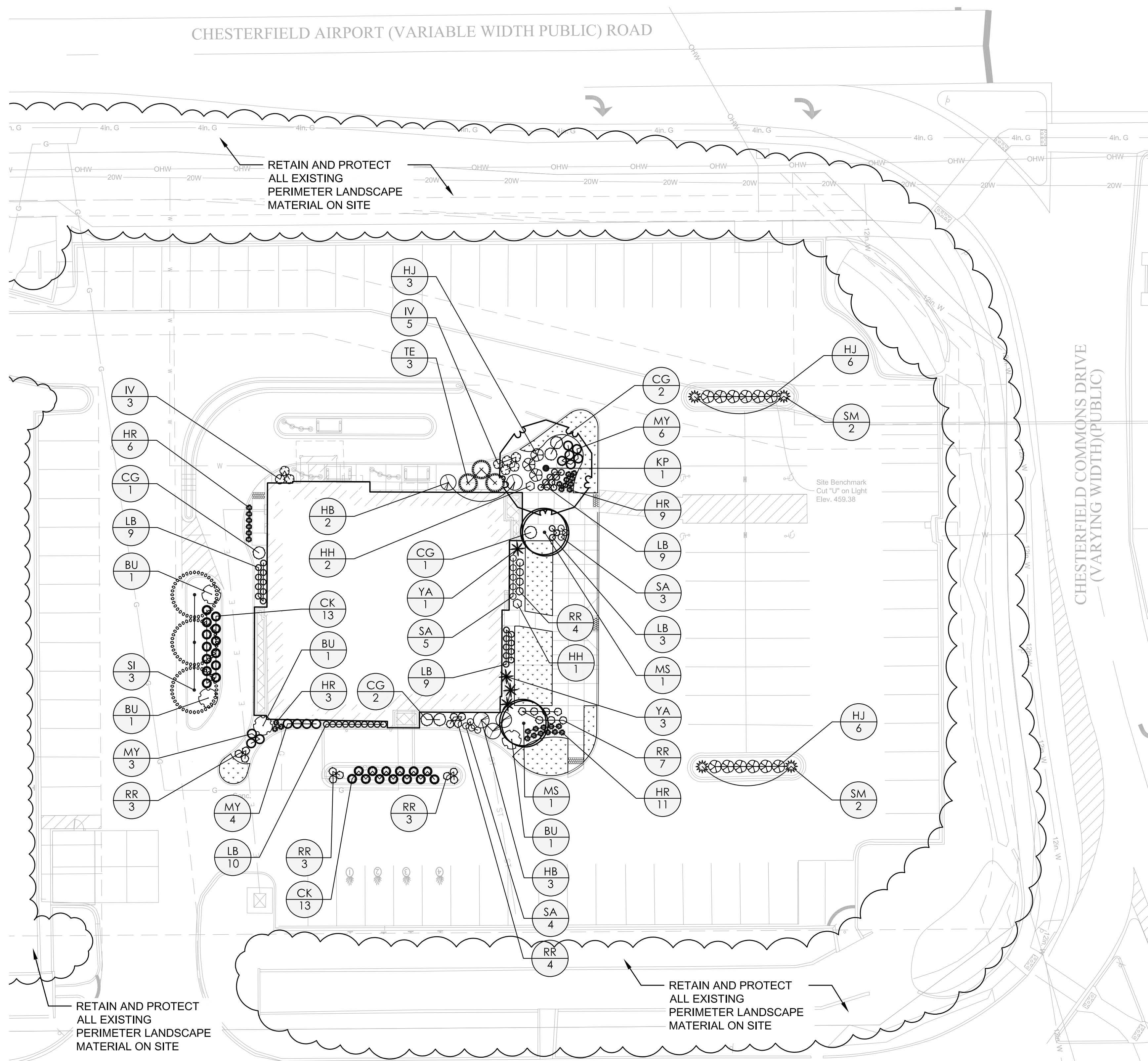
2164200

SHEET NUMBER

A1.7

CHESTERFIELD AIRPORT (VARIABLE WIDTH PUBLIC) ROAD

RETAIN AND PROTECT ALL EXISTING PERIMETER LANDSCAPE MATERIAL ON SITE

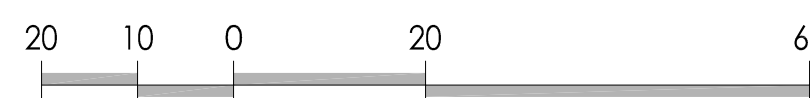


RETAIN AND PROTECT ALL EXISTING PERIMETER LANDSCAPE MATERIAL ON SITE

RETAIN AND PROTECT ALL EXISTING PERIMETER LANDSCAPE MATERIAL ON SITE

THF BOULEVARD

CHESTERFIELD COMMONS DRIVE (VARYING WIDTH)(PUBLIC)



TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL
KP	1	KOELREUTERIA PANICULATA	GOLDEN RAIN TREE	B & B	
MS	2	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B & B	2" CAL
SI	3	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	B & B	1.5" CAL

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
BU	4	BUDDLEJA X 'BLUE KNIGHT'	BLUE KNIGHT BUTTERFLY BUSH	5 GAL
CG	6	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP THREADLEAF SAWARA CYPRESS	3 GAL
HB	5	HIBISCUS SYRIACUS 'BLUE CHIFFON'	BLUE CHIFFON ROSE OF SHARON	5 GAL
HH	2	HIBISCUS X 'FIREBALL'	FIREBALL HARDY HIBISCUS	5 GAL
HJ	15	HYDRANGEA PANICULATA 'JANE' TM	LITTLE LIME PANICLE HYDRANGEA	3 GAL
IV	8	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	3 GAL
RR	24	ROSA X 'MEIGALPIO' TM	RED DRIFT GROUNDCOVER ROSE	3 GAL
SM	4	SABAL MINOR	DWARF PALMETTO	3 GAL
TE	3	TAXUS CUSPIDATA 'MONLOO' TM	EMERALD SPREADER JAPANESE YEW	5 GAL
YA	4	YUCCA ALOIFOLIA	ALOE YUCCA	5 GAL

GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
CK	26	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	2 GAL
LB	40	LEYMUS ARENARIUS 'BLUE DUNE'	BLUE DUNE LYME GRASS	2 GAL
MY	13	MISCANTHUS SINENSIS 'YAKU JIMA'	YAKU JIMA EULALIA GRASS	3 GAL

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
HR	29	HEMEROCALLIS X 'RUBY STELLA'	RUBY STELLA DAY'LILY	1 GAL
SA	12	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL

***ALL LANDSCAPE BEDS TO HAVE 2" DIA. COLORADO RIVER ROCK AT 4-6" DEPTH

PLANTING NOTES

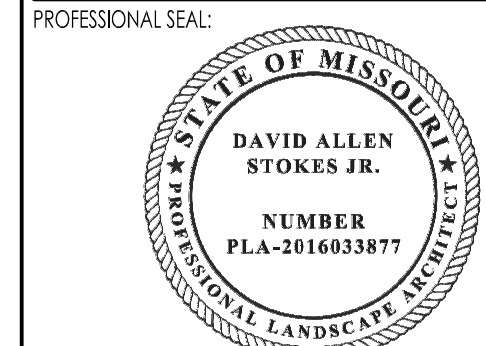
- LANDSCAPE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS AND SECTIONS WITHIN THE LOCAL JURISDICTION'S STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.
- LOCATIONS OF ALL PLANT MATERIALS TO BE STAKED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- CONTRACTOR SHALL COORDINATE DELIVERY SCHEDULE AND PLANT TREES UPON ARRIVAL. ALL PLANTS OF THE SAME SPECIES SHALL BE OBTAINED FROM A SINGLE NURSERY SOURCE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF PLANT MATERIALS SHOWN.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO SEED AND RESTORE ALL DISTURBED AREAS BACK TO ORIGINAL OR FINISH GRADE ELEVATIONS, INCLUDING EQUIPMENT MATERIAL STORAGE AREA AND STAGING AREAS ADJACENT TO SITE.
- PLANT TREES AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF ALL OTHER PLANTS.
- ALL EXISTING PLANTS SHOWN ON PLAN ARE IN APPROXIMATE LOCATIONS. ADJUST NEW PLANTING BED AND TREE LOCATIONS TO AVOID CONFLICT WITH EXISTING PLANTINGS. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT ON ANY NECESSARY ADJUSTMENTS.
- THE LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT INJURY TO ALL PLANT MATERIAL DURING DIGGING, HANDLING, PLANTING AND MAINTENANCE OPERATIONS.
- ALL TREE AND SHRUB LANDSCAPE BEDS SHALL HAVE WEED-PREVENTION FABRIC INSTALLED. WEED PREVENTION FABRIC SHALL COVER THE ENTIRE LANDSCAPE BED.
- CANOPY TREES AND EVERGREEN TREES PLANTED IN A LAWN OR GRASS SETTING SHALL RECEIVE A MINIMUM OF 4-6" COLORADO RIVER ROCK STONE MULCH UNLESS OTHERWISE SPECIFIED. MULCH AROUND TREES SHALL BE EXTENDED OUT AS FAR AS THE HOLE DUG FOR PLANTING AND SHALL BE PLACED IN SUCH A WAY AS TO FORM A BOWL AT THE BASE OF THE TRUNK ALLOWING WATER TO COLLECT MORE EFFECTIVELY.
- REMOVE ALL WIRE, TWINE, OR BURLAP FROM THE ROOT BALLS OF TREES PRIOR TO PLANTING.
- CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ANY TREES THAT HAVE BECOME TILTED WITHIN ONE YEAR FROM DATE OF INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF IDENTIFICATION TAGS, CONTAINERS, AND BURLAP ON ALL PLANT MATERIAL PRIOR TO COMPLETION OF THE CONTRACT.
- THE REQUIRED LANDSCAPING, BOTH EXISTING AND PROPOSED, SHALL BE MAINTAINED FOR THE LIFE OF THE CERTIFICATE OF OCCUPANCY.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF PLANT MATERIALS AND IMPROVEMENTS SHOWN. ACTUAL QUANTITIES AND MEASUREMENTS ON DRAWINGS TAKE PRECEDENT OVER TABLE QUANTITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.



JEFFREY L. BRUCE & COMPANY
 landscape architecture | planning | urban design
 252 NW Executive Way
 Lee's Summit, MO 64063
 P: 816.842.8999
 F: 816.842.8885
 www.jlbruce.com

PROJECT:
HAWAIIAN BROTHERS
 17100 CHESTERFIELD AIRPORT ROAD
 CHESTERFIELD, MO 63005

ISSUE:
 03/02/2022 LANDSCAPE PLAN SUBMISSION



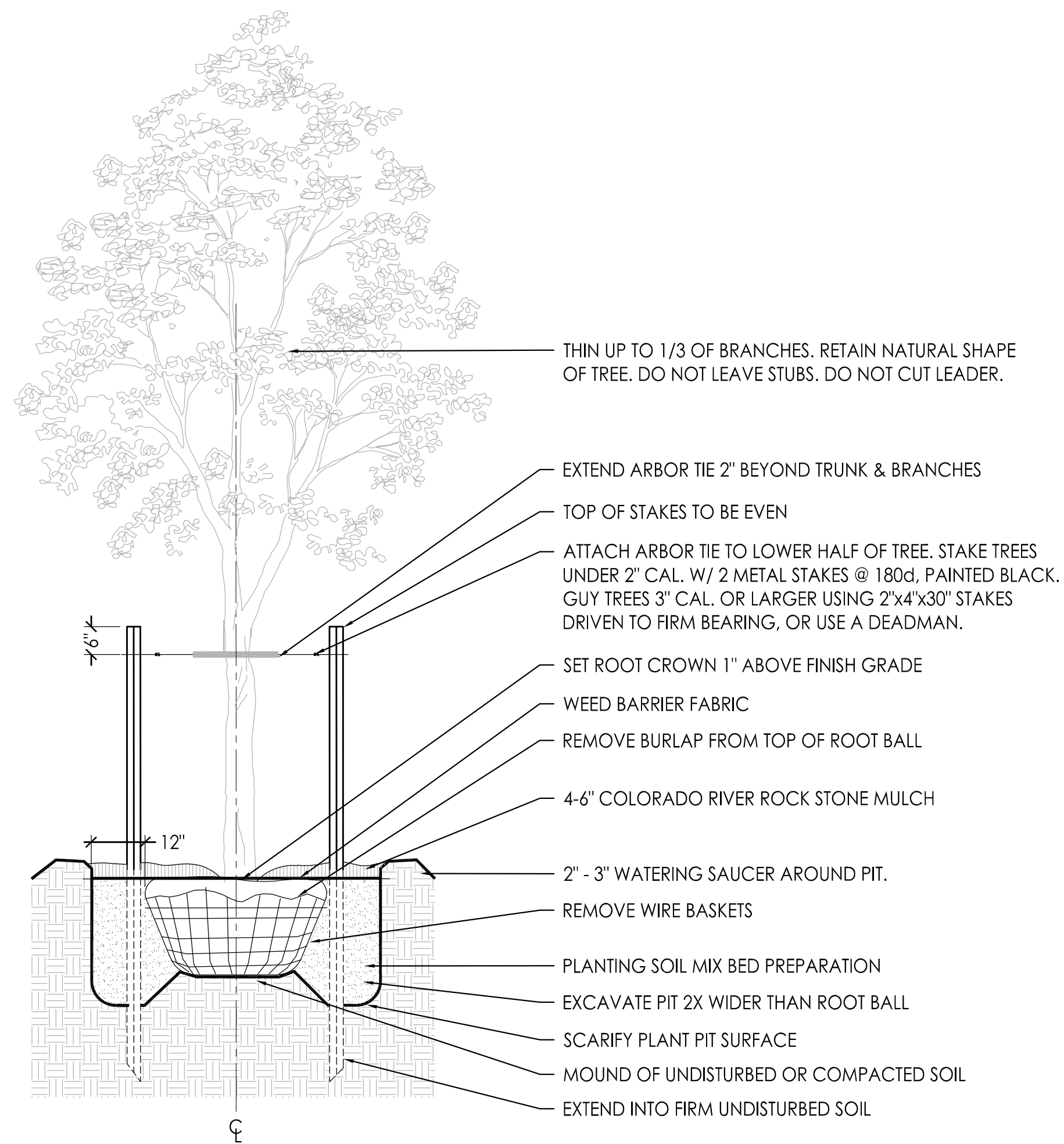
DRAWING TITLE:
LANDSCAPE PLAN

JOB NO: 1815 SCALE: 1" = 20' - 0"
 DATE: 03/02/22 DRAWN BY: LCD

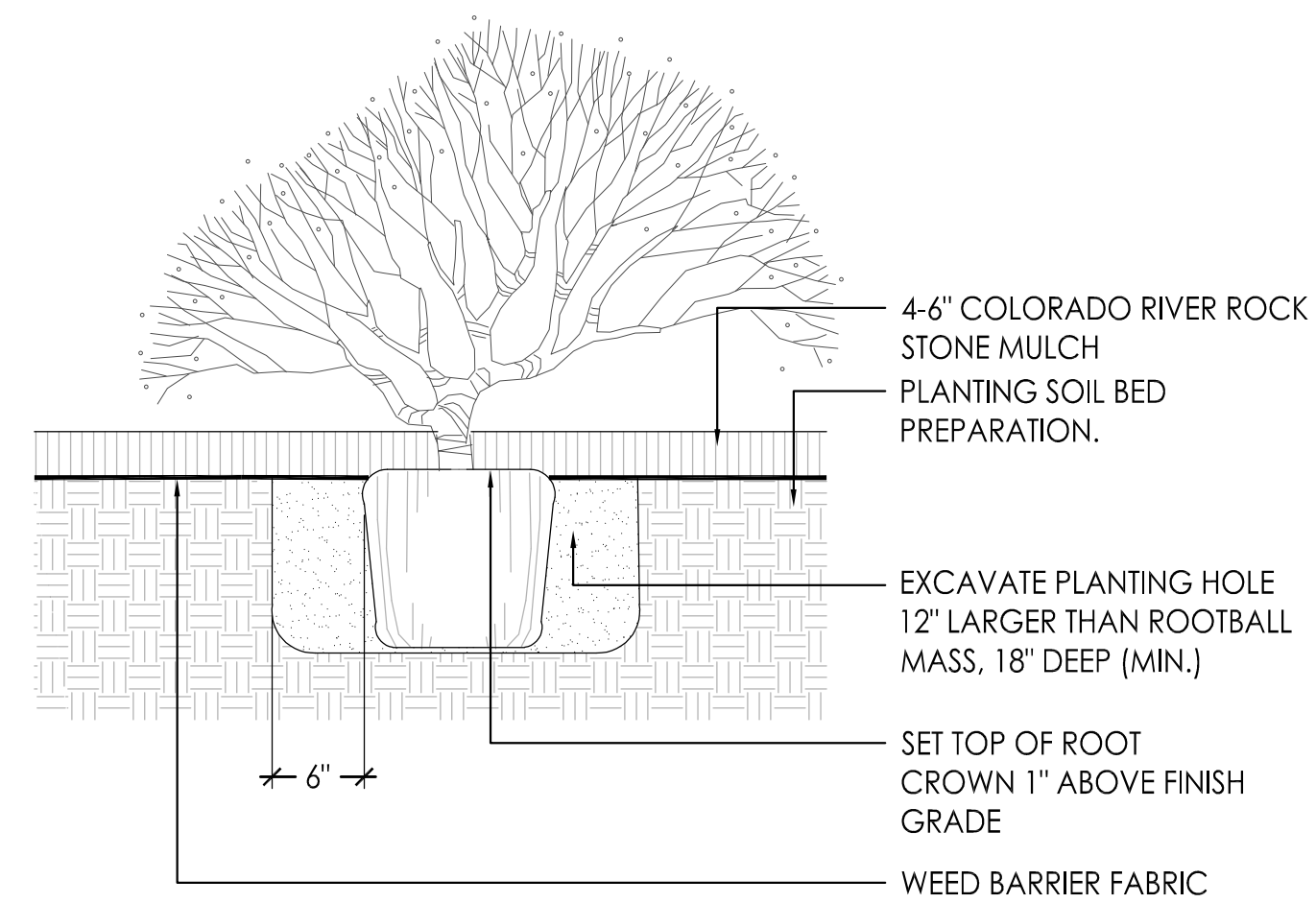
SHEET NO:
L100

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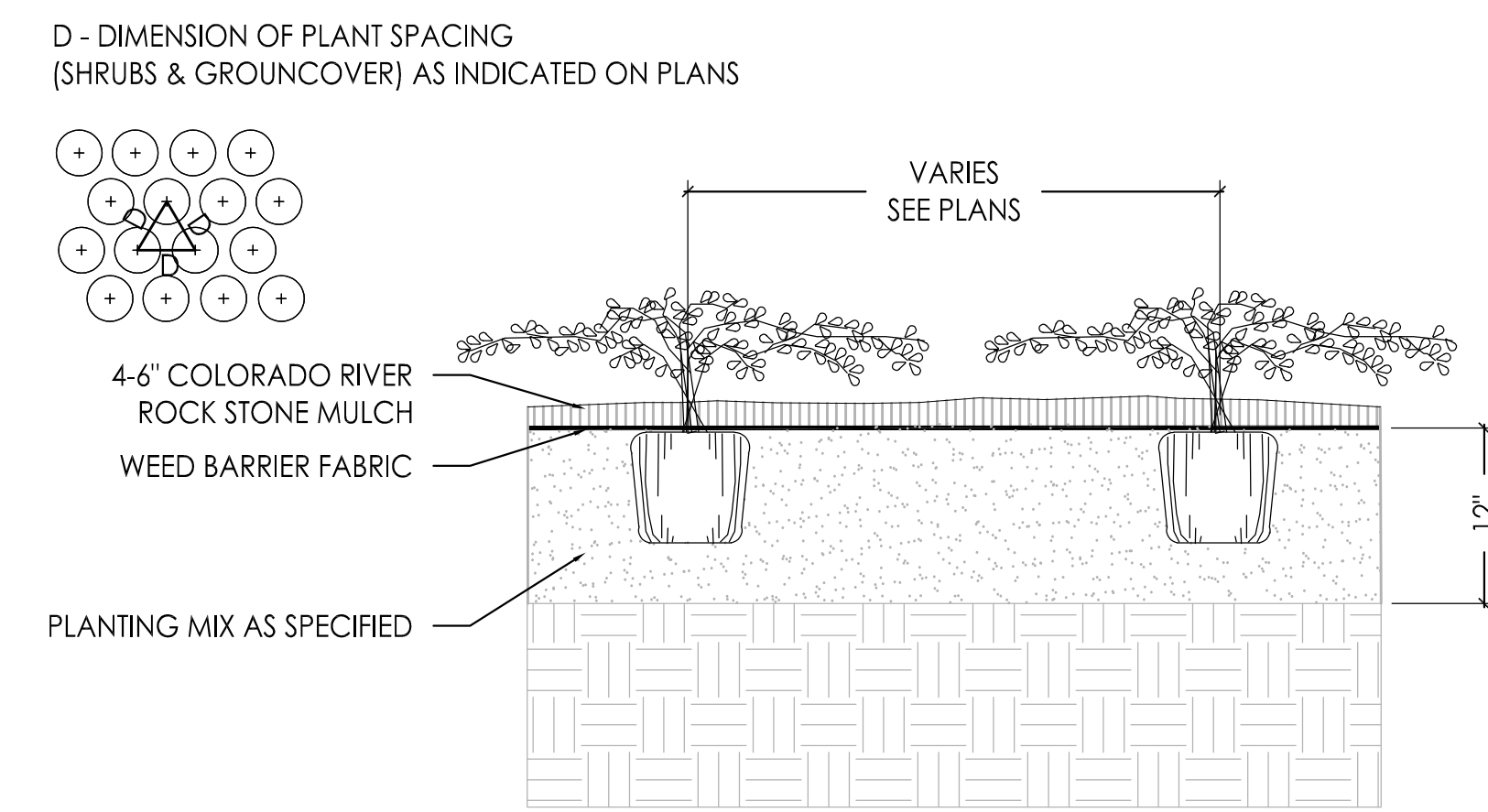
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1 TREE PLANTING DETAIL
1/2" = 1' - 0"



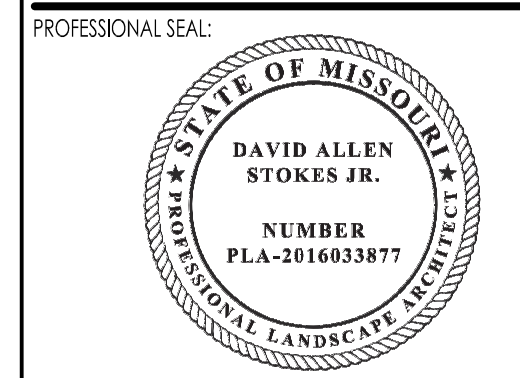
2 SHRUB PLANTING DETAIL
1" = 1' - 0"



3 GRASSES/PERENNIAL PLANTING DETAIL
1" = 1' - 0"

ISSUE:

03/02/2022	LANDSCAPE PLAN SUBMISSION



DRAWING TITLE:
LANDSCAPE DETAILS

JOB NO: 1815 SCALE: AS NOTED
 DATE: 03/02/22 DRAWN BY: LCD

SHEET NO:
L101

EXTERIOR RENDRINGS



HAWAIIAN BROSTM

EXTERIOR RENDRINGS



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HAWAIIAN  BROSTM

PROJECT INFORMATION

PROPOSED BUILDING RENOVATION
HAWAIIAN BROS - STR: 47
 17100 CHESTERFIELD AIRPORT ROAD • CHESTERFIELD, MO 63005

PROFESSIONAL SEAL

SHEET DATES

SHEET ISSUE DEC. 8, 2021

REVISIONS

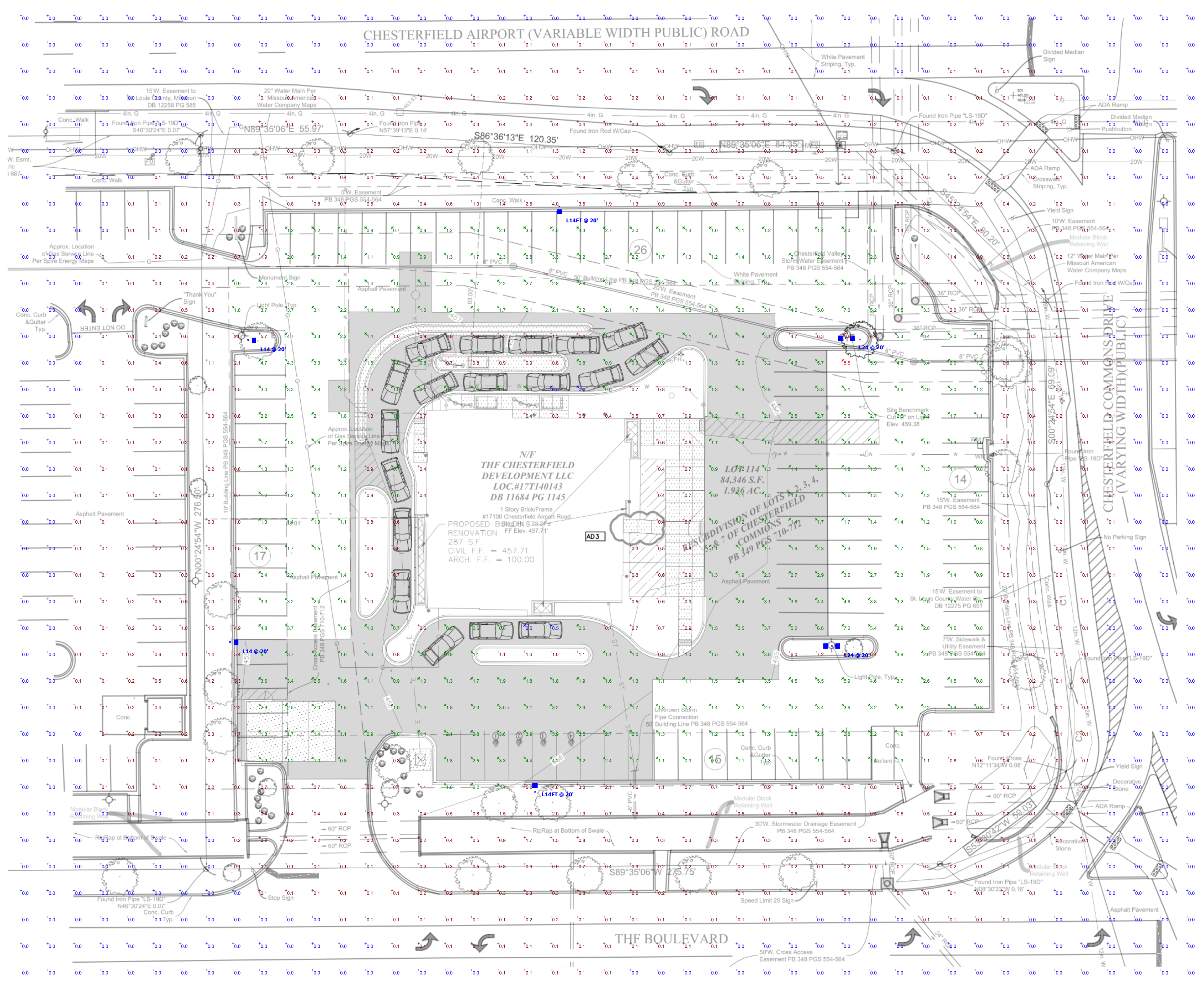
AD3 MAR. 31, 2022

JOB NUMBER

2164200

SHEET NUMBER

C3.1



D-Series Size 1 LED Area Luminaire

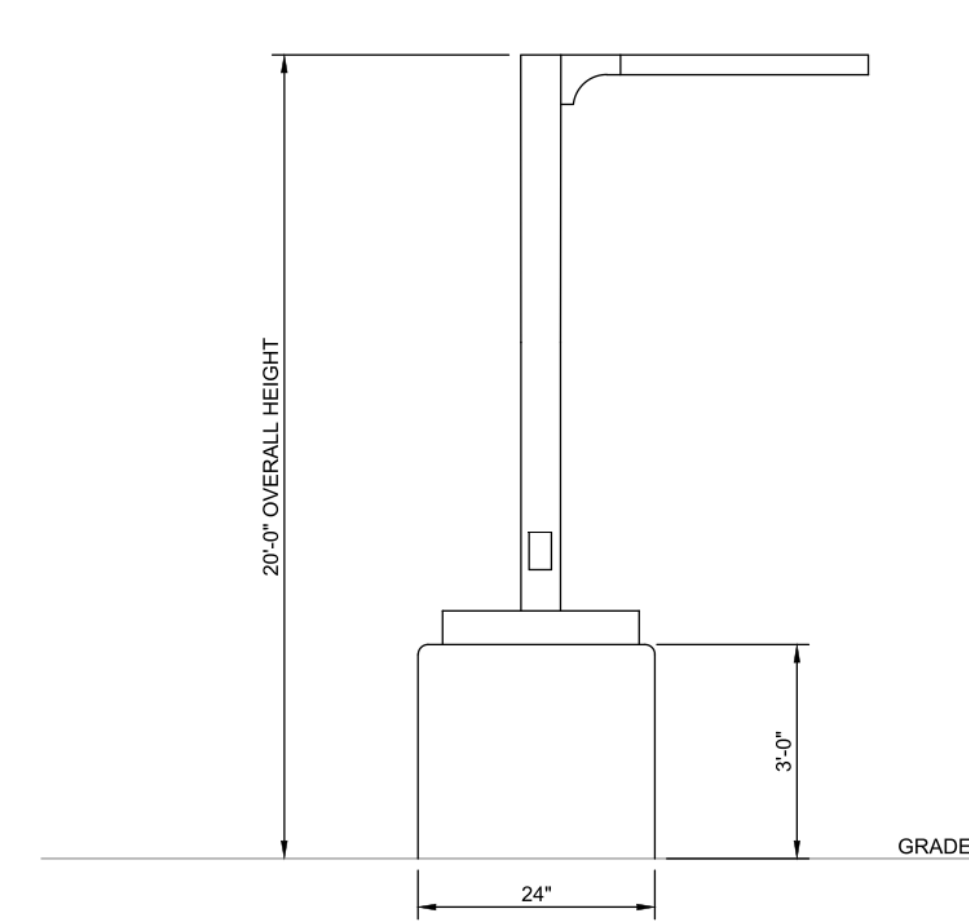
Specifications
 EPA: 1.01 W/Watt
 Length: 24.00"
 Width: 12.00"
 Height H1: 7.125"
 Height H2: 9.125"
 Weight: 27 lbs

Introduction
 The modern styling of the D-Series is striking yet understated - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high-performance, high-efficiency lighting luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 60% and expected service life of over 100,000 hours.

Ordering Information EXAMPLE: DSK1 LED P7 40K T3M MVOLT SPA NLTAR2 PRVH1 DBXKD 80110

Code	Qty	Color Temperature	Beam Spread	Height	Mounting
80110	1	4000K	75°	7'10"	Top Mount
80111	1	4000K	75°	7'10"	Side Mount
80112	1	4000K	75°	7'10"	Bottom Mount
80113	1	4000K	75°	7'10"	Top Mount
80114	1	4000K	75°	7'10"	Side Mount
80115	1	4000K	75°	7'10"	Bottom Mount
80116	1	4000K	75°	7'10"	Top Mount
80117	1	4000K	75°	7'10"	Side Mount
80118	1	4000K	75°	7'10"	Bottom Mount
80119	1	4000K	75°	7'10"	Top Mount
80120	1	4000K	75°	7'10"	Side Mount
80121	1	4000K	75°	7'10"	Bottom Mount
80122	1	4000K	75°	7'10"	Top Mount
80123	1	4000K	75°	7'10"	Side Mount
80124	1	4000K	75°	7'10"	Bottom Mount
80125	1	4000K	75°	7'10"	Top Mount
80126	1	4000K	75°	7'10"	Side Mount
80127	1	4000K	75°	7'10"	Bottom Mount
80128	1	4000K	75°	7'10"	Top Mount
80129	1	4000K	75°	7'10"	Side Mount
80130	1	4000K	75°	7'10"	Bottom Mount
80131	1	4000K	75°	7'10"	Top Mount
80132	1	4000K	75°	7'10"	Side Mount
80133	1	4000K	75°	7'10"	Bottom Mount
80134	1	4000K	75°	7'10"	Top Mount
80135	1	4000K	75°	7'10"	Side Mount
80136	1	4000K	75°	7'10"	Bottom Mount
80137	1	4000K	75°	7'10"	Top Mount
80138	1	4000K	75°	7'10"	Side Mount
80139	1	4000K	75°	7'10"	Bottom Mount
80140	1	4000K	75°	7'10"	Top Mount
80141	1	4000K	75°	7'10"	Side Mount
80142	1	4000K	75°	7'10"	Bottom Mount
80143	1	4000K	75°	7'10"	Top Mount
80144	1	4000K	75°	7'10"	Side Mount
80145	1	4000K	75°	7'10"	Bottom Mount
80146	1	4000K	75°	7'10"	Top Mount
80147	1	4000K	75°	7'10"	Side Mount
80148	1	4000K	75°	7'10"	Bottom Mount
80149	1	4000K	75°	7'10"	Top Mount
80150	1	4000K	75°	7'10"	Side Mount
80151	1	4000K	75°	7'10"	Bottom Mount
80152	1	4000K	75°	7'10"	Top Mount
80153	1	4000K	75°	7'10"	Side Mount
80154	1	4000K	75°	7'10"	Bottom Mount
80155	1	4000K	75°	7'10"	Top Mount
80156	1	4000K	75°	7'10"	Side Mount
80157	1	4000K	75°	7'10"	Bottom Mount
80158	1	4000K	75°	7'10"	Top Mount
80159	1	4000K	75°	7'10"	Side Mount
80160	1	4000K	75°	7'10"	Bottom Mount
80161	1	4000K	75°	7'10"	Top Mount
80162	1	4000K	75°	7'10"	Side Mount
80163	1	4000K	75°	7'10"	Bottom Mount
80164	1	4000K	75°	7'10"	Top Mount
80165	1	4000K	75°	7'10"	Side Mount
80166	1	4000K	75°	7'10"	Bottom Mount
80167	1	4000K	75°	7'10"	Top Mount
80168	1	4000K	75°	7'10"	Side Mount
80169	1	4000K	75°	7'10"	Bottom Mount
80170	1	4000K	75°	7'10"	Top Mount
80171	1	4000K	75°	7'10"	Side Mount
80172	1	4000K	75°	7'10"	Bottom Mount
80173	1	4000K	75°	7'10"	Top Mount
80174	1	4000K	75°	7'10"	Side Mount
80175	1	4000K	75°	7'10"	Bottom Mount
80176	1	4000K	75°	7'10"	Top Mount
80177	1	4000K	75°	7'10"	Side Mount
80178	1	4000K	75°	7'10"	Bottom Mount
80179	1	4000K	75°	7'10"	Top Mount
80180	1	4000K	75°	7'10"	Side Mount
80181	1	4000K	75°	7'10"	Bottom Mount
80182	1	4000K	75°	7'10"	Top Mount
80183	1	4000K	75°	7'10"	Side Mount
80184	1	4000K	75°	7'10"	Bottom Mount
80185	1	4000K	75°	7'10"	Top Mount
80186	1	4000K	75°	7'10"	Side Mount
80187	1	4000K	75°	7'10"	Bottom Mount
80188	1	4000K	75°	7'10"	Top Mount
80189	1	4000K	75°	7'10"	Side Mount
80190	1	4000K	75°	7'10"	Bottom Mount
80191	1	4000K	75°	7'10"	Top Mount
80192	1	4000K	75°	7'10"	Side Mount
80193	1	4000K	75°	7'10"	Bottom Mount
80194	1	4000K	75°	7'10"	Top Mount
80195	1	4000K	75°	7'10"	Side Mount
80196	1	4000K	75°	7'10"	Bottom Mount
80197	1	4000K	75°	7'10"	Top Mount
80198	1	4000K	75°	7'10"	Side Mount
80199	1	4000K	75°	7'10"	Bottom Mount
80200	1	4000K	75°	7'10"	Top Mount



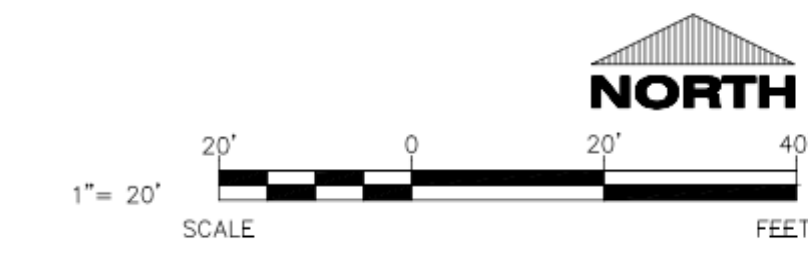
LIGHT POLE DETAIL
 NO SCALE

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage
□	L14	2	Lithonia Lighting	DSK1 LED P6 40K T4M MVOLT	DSK1 LED P6 40K T4M MVOLT	1	18634	0.9	163
□	L24	2	Lithonia Lighting	DSK1 LED P6 40K T4M MVOLT	DSK1 LED P6 40K T4M MVOLT	1	18634	0.9	326
□	DSK1 LED P6 40K T4M MVOLT	2	Lithonia Lighting	DSK1 LED P6 40K T4M MVOLT	DSK1 LED P6 40K T4M MVOLT	1	18634	0.9	163
□	DSK1 LED P6 40K T4M MVOLT	2	Lithonia Lighting	DSK1 LED P6 40K T4M MVOLT	DSK1 LED P6 40K T4M MVOLT	1	18634	0.9	163
□	L14FT	2	Lithonia Lighting	DSK1 LED P6 40K T4M MVOLT	DSK1 LED P6 40K T4M MVOLT	1	19037	0.9	163

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	0.8 fc	10.7 fc	0.0 fc	N/A	N/A
PARKING LOT	X	2.1 fc	8.5 fc	0.5 fc	17.0:1	4.2:1



CIVIL SITE PHOTOMETRIC PLAN & DETAILS

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

LITEISTRY™

FEATURES

- 6" architectural LED downlight delivering 600 – 9000 lm
- Five beam distributions from 0.3 to 1.1 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K – 5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, Lutron Forward Phase, and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available



RELATED PRODUCTS

- [LTR-6RD-RFH Retrofit](#)
- [LTR-6RD SpectraSync](#)
- [6" LITEISTRY Family](#)
- [LTR-6RD PowerHUBB](#)

SERVICE PROGRAMS



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC, Chicago Plenum and IC options
- Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity spun aluminum reflector, self-flanged
- Flush Mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- NX or Lutron Vibe control options available
- Integral and remote controller and battery pack options available
- Refer to additional spec sheets for information on [SpectraSync™ Tunable White or Dim-to-Warm](#) or [PowerHUBB™ PoE enabled](#) solutions

INSTALLATION

- Accommodates ceiling thickness up to 2" (SL, ML, HL); up to 1.25" (VL, XL)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6).
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- For ≥70L: Marked spacing required 36" fixture center to center; 36" fixture center to building member; 0.5" above fixture
- Suitable for wet locations, covered ceiling. EM/EMR: Suitable for damp locations.
- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- ENERGY STAR® certified models available (See list and additional information on page 8)
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	600-9000
Wattage Range	8-99
Efficacy Range (LPW)	94-104*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	65-825 (120V)

*Based on Specular, 35K, 80 CRI



LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

_____ = Service Program



Click icons for a list of Stocked or Quick-Ship options

ORDERING GUIDE

Example: LTR-6RD-H-SL10L-DM1-LTR-6RD-T-SL35K8MD-S

CATALOG #

HOUSING

LTR-6RD-H	Lumen Package		Lumen Output		Driver Options		Control Options		Voltage		Housing Options	
Aperture/Shape/Function	SL	Standard Lumen	06L	600	DM1	0-10V Dimming to 1% ¹¹	NXE	NX Enabled, Dual SmartPorts ³	<i>Standard</i>	120-277V	CP	Chicago Plenum ^{7,9}
LTR-6RD-H 6" Round Downlight New Construction Housing	ML	Medium Lumen	10L	1000	DMX	DMX with RDM dimming to < 0.1% ²	NXWE	NX Wireless Enabled ³	34	347V ⁶	IC	IC rated ^{8,9}
			15L	1500								
			20L	2000								
	HL	High Lumen	25L	2500	DALI	DALI Dimming to 1% ²	NXWD	NX Wireless Enabled, Dual SmartPorts ³	EM	Emergency Battery Pack with integral test switch and indicator light ⁹		
			30L	3000								
			35L	3500								
	VL	Very High Lumen	40L	4000	2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) ²	LV	Lutron Vive Enabled, 0-10V (requires 0-10V driver)	EMR	Emergency Battery Pack with remote test switch and indicator light ⁹		
			45L	4500								
			50L	5000								
	XL	Extra high Lumen ¹²	55L	5500	EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ²	LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)	DTS	Device Transfer Switch with Dimming Bypass ^{9,13}		
			60L	6000								
			70L	7000								
			80L	8000						GTD	Generator Transfer Device ⁹	
			90L	9000								F

TRIM

LTR-6RD-T	Lumen Package		CCT		CRI		Distribution	
Aperture/Shape/Function	SL	Standard Lumen	27K	2700K	8	80+CRI	VNR	Very Narrow (0.3 SC/18")
LTR-6RD-T 6" Round Downlight Light Engine/Trim Assembly	ML	Medium Lumen	30K	3000K	9	90+CRI	NR	Narrow (0.5 SC/29")
	HL	High Lumen	35K	3500K			MD	Medium (0.6 SC/37")
	VL	Very High Lumen	40K	4000K			WD	Wide (0.9 SC/59")
	XL	Extra High Lumen ¹²	50K	5000K ¹			XW	Extra Wide (1.1 SC/76")

TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
<i>Finish not applicable with painted reflectors (WC or BC)</i>	<i>Standard Clear</i>	<i>Standard matches reflector color</i>	EM Pre-punched reflector for EM integral test switch and indicator	AM Antimicrobial Coating ⁵
S Specular	CG Champagne Gold	WT White Flange ⁴	FM Flush Mount Mud-in Ring ¹⁰	
SS Semi-Specular	BL Black	BT Black Flange ⁴		
MFC American Matte™	LW Light Wheat		WF Wide Flange	
VS Softglow®	PW Pewter			
VSS SoftSheen™	WC Painted White Cone and Flange			
	BC Painted Black Cone and Flange			

Accessories

- B24** Set of two (2) 24" bar hangers for T-bar ceilings
- B6** Set of two bar hangers for ceiling joist up to 24" centers
- FMR6-R** Flush Mount Mud-In Ring, 6" Round
- LiteGear** LiteGear® Inverter, 125VA-250VA
- LPS Series** LightPower Micro-Inverter, 20VA-55VA
- MOR6-R-WH** Metal Oversized Ring, 6" Round, White (10" outside diameter)
- MOR6-R-BL** Metal Oversized Ring, 6" Round, Black (10" outside diameter)
- LTR-SCA6-__** Sloped Ceiling Adapter, 6", White ¹⁴

Notes:

- 1 5000K available in 80+ CRI only.
- 2 2DM, EDM, DMX available in 10L-35L. DM01, DALI not available on >55L.
- 3 NX requires DM1 driver option, not available on >60L.
- 4 WT not needed for WC, BT not needed for BC.
- 5 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 6 347V requires DM1 driver option; available 10L - 60L not available with Controls, F, GTD, DTS, EM, EMR.
- 7 CP available up to 20L; not available with DMX, Controls, or EMR options.
- 8 IC available up to 20L; not available with Controls options.
- 9 Housing options (except Fuse) not available in combination.
- 10 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 11 DM1 on >60L is 0-10V to 5% dimming.
- 12 XL (70L-90L) require marked spacing. See line art for more details.
- 13 DTS available with DM1, DM01, DALI, or EDM; not available with LVE.
- 14 Specify slope angle 5°-35° in 5° increments. Not available with EM, WF, or FM options.



LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ¹
NX Networked – Wireless								
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

- 1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network
- 2 Programming via App requires factory assistance
- 3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Very Narrow	806	7.8	103
		Narrow	717	7.8	92
		Medium	746	7.8	96
		Wide	691	7.8	89
		Extra Wide	665	7.8	85
10L	1000	Very Narrow	1288	12.0	107
		Narrow	1146	12.0	96
		Medium	1192	12.0	99
		Wide	1104	12.0	92
		Extra Wide	1063	12.0	89
15L	1500	Very Narrow	1851	18.7	99
		Narrow	1623	18.7	87
		Medium	1712	18.7	92
		Wide	1586	18.7	85
		Extra Wide	1527	18.7	82
20L	2000	Very Narrow	2355	22.6	104
		Narrow	2263	22.7	100
		Medium	2265	22.6	100
		Wide	2180	22.7	96
		Extra Wide	2139	22.7	94
25L	2500	Very Narrow	3093	27.7	112
		Narrow	2751	27.7	99
		Medium	2860	27.7	103
		Wide	2650	27.7	96
		Extra Wide	2551	27.7	92
30L	3000	Very Narrow	3686	34.3	107
		Narrow	3278	34.3	96
		Medium	3409	34.3	99
		Wide	3158	34.3	92
		Extra Wide	3040	34.3	89



LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

PERFORMANCE DATA TABLE CONTINUED

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
35L	3500	Very Narrow	4477	43.0	104
		Narrow	3942	43.0	93
		Medium	4140	43.0	96
		Wide	3836	43.0	89
		Extra Wide	3693	43.0	86
40L	4000	Very Narrow	5117	51.6	99
		Narrow	4552	51.6	88
		Medium	4733	51.6	92
		Wide	4385	51.6	85
		Extra Wide	4221	51.6	82
45L	4500	Very Narrow	5371	55.1	98
		Narrow	4775	55.1	87
		Medium	4967	55.1	90
		Wide	4602	55.1	84
		Extra Wide	4430	55.1	80
50L	5000	Very Narrow	5740	48.7	118
		Narrow	5105	48.7	105
		Medium	5308	48.7	109
		Wide	4918	48.7	101
		Extra Wide	4734	48.7	97
55L	5500	Very Narrow	6365	53.9	119
		Narrow	5662	53.9	105
		Medium	5887	53.9	109
		Wide	5454	53.9	101
		Extra Wide	5250	53.9	97
60L	6000	Very Narrow	7090	60.7	117
		Narrow	6299	60.7	104
		Medium	6557	60.7	108
		Wide	6075	60.7	100
		Extra Wide	5848	60.7	96
70L	7000	Very Narrow	8266	72.1	115
		Narrow	7353	72.1	102
		Medium	7645	72.1	106
		Wide	7083	72.1	98
		Extra Wide	6819	72.1	95
80L	8000	Very Narrow	9301	84.3	111
		Narrow	8273	84.3	98
		Medium	8602	84.3	102
		Wide	7970	84.3	95
		Extra Wide	7672	84.3	91
90L	9000	Very Narrow	10549	98.1	108
		Narrow	9383	98.1	96
		Medium	9756	98.1	99
		Wide	9039	98.1	92
		Extra Wide	8701	98.1	89

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

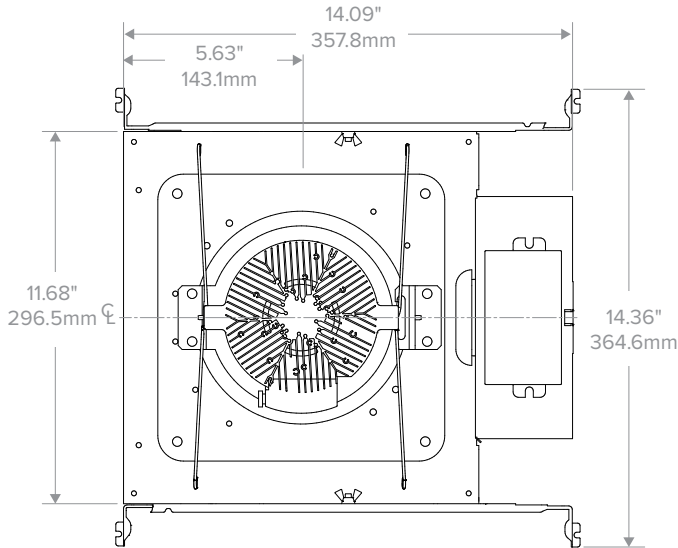
TYPE: _____ PROJECT: _____

CATALOG #: _____

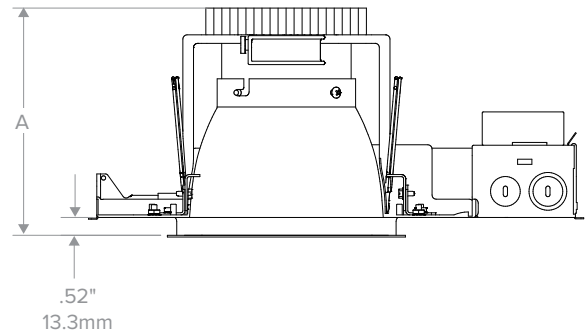
DIMENSIONS

Lumen Package	"A"
06L-15L	5.90" (149.9mm)
20L-30L	6.68" (169.7mm)
35L-40L	7.86" (199.6mm)
50L-60L	9.04" (229.6mm)

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)



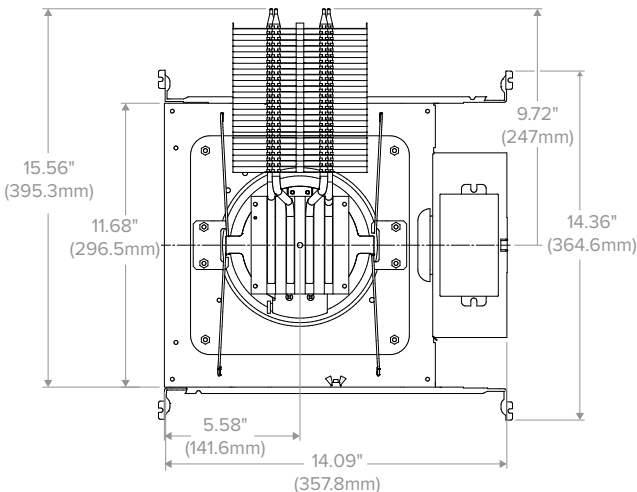
Top View



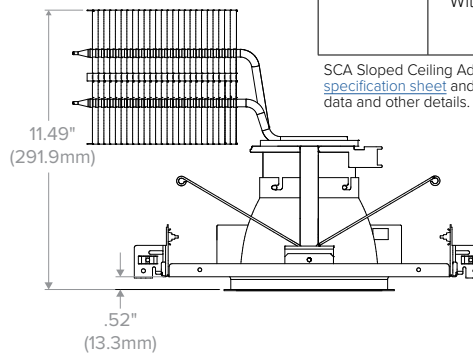
LTR-6RD-H (06L - 60L) New Construction

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

Marked spacing required:
36" fixture center to center;
36" center to building member;
0.50" above fixture



Top View



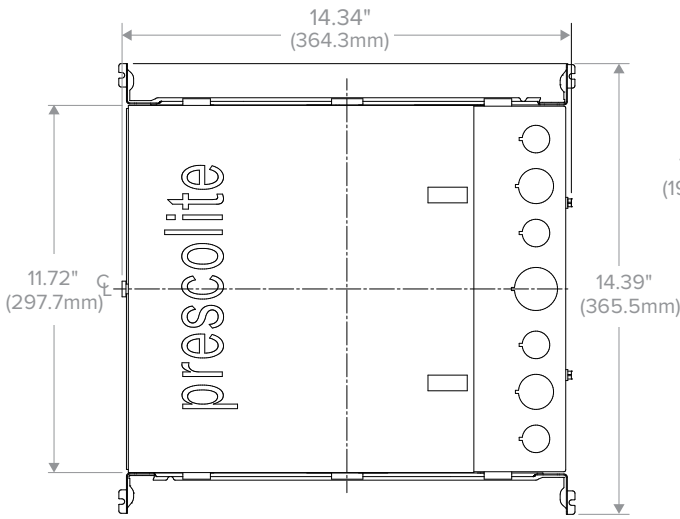
LTR-6RD-H (70L - 90L) New Construction

SCA Sloped Ceiling Adapter accessory available, see [LTR-SCA specification sheet](#) and [installation instructions](#) for dimensional data and other details.

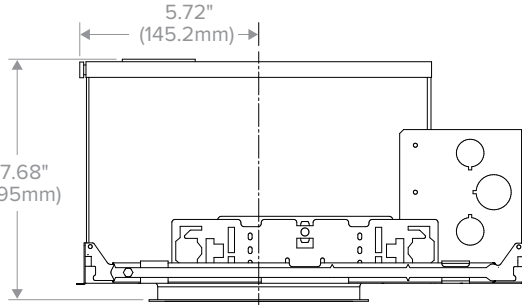
LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DIMENSIONS CONTINUED



LTR-6RD-IC



Dimensional Data		
Aperture		5.75" (146.1mm)
Flange:	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166.0mm)
Ceiling Cutout:	Standard	6.50" (165.1mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness:	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see [LTR-SCA specification sheet](#) and [installation instructions](#) for dimensional data and other details.

PHOTOMETRY

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8VNR-S

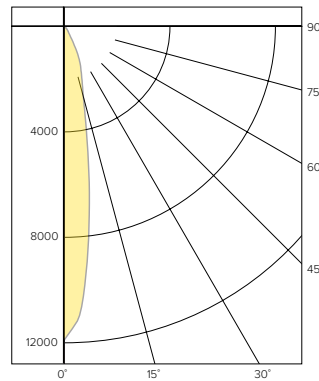
LUMINAIRE DATA

Test No.	19.00588
Description	2000 lm, Very Narrow, 3500K, 80 CRI
Delivered Lumens	2355
Watts	22.6W
Efficacy	104.0
Mounting	Recessed
Spacing Criterion	0.3
Beam Angle (FWHM)	18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2290	97.2
0-60	2355	100.0
0-90	2355	100.0
0-180	2355	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	11881
5	9399
15	2776
25	1236
35	255
45	74
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6247
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8NR-S

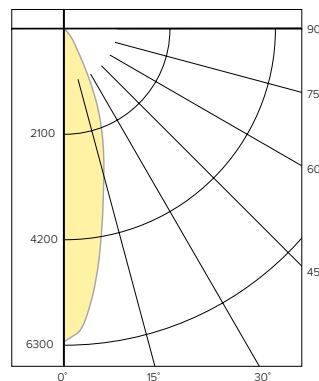
LUMINAIRE DATA

Test No.	20.01439
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	2263
Watts	22.1W
Efficacy	103.0
Mounting	Recessed
Spacing Criterion	0.5
Beam Angle (FWHM)	29

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2185	96.6
0-60	2260	99.9
0-90	2263	100.0
0-180	2263	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	6222
5	5603
15	3035
25	1354
35	348
45	83
55	5
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6712
55°	498
65°	271
75°	221
85°	0

*Candela/Square Meter

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

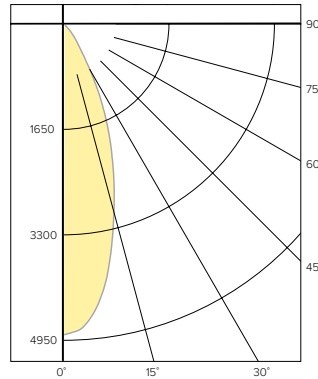
PHOTOMETRY CONTINUED

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8MD-S

LUMINAIRE DATA

Test No.	19.00587
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	2265
Watts	22.6W
Efficacy	100.0
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	37

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4851
5	4619
15	3007
25	1450
35	386
45	99
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	8357
55°	624
65°	282
75°	231
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

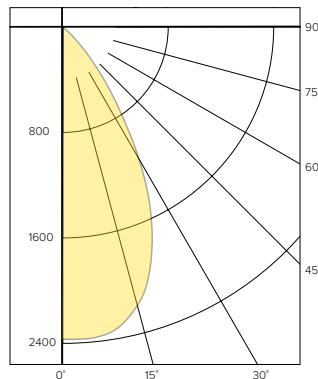
Zone	Lumens	% Luminaire
0-40	2171	95.9
0-60	2262	99.9
0-90	2265	100.0
0-180	2265	100.0

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8WD-S

LUMINAIRE DATA

Test No.	19.00585
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	2180
Watts	22.6W
Efficacy	96.1
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	59

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2368
5	2371
15	2189
25	1591
35	726
45	177
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14942
55°	1041
65°	424
75°	231
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

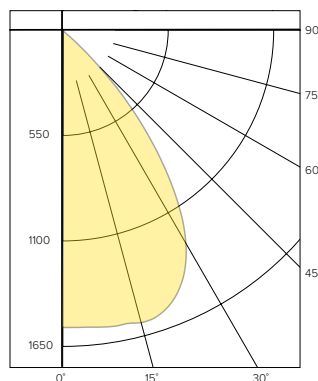
Zone	Lumens	% Luminaire
0-40	2014	92.4
0-60	2176	99.8
0-90	2180	100.0
0-180	2180	100.0

LTR-6RD-H-ML20L-DM1 / LTR-6RD-T-ML35K8XW-S

LUMINAIRE DATA

Test No.	19.00586
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	2139
Watts	22.7W
Efficacy	94.4
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	76

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1547
5	1552
15	1576
25	1461
35	1007
45	301
55	9
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	25409
55°	937
65°	424
75°	231
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1875	87.7
0-60	2134	99.8
0-90	2139	100.0
0-180	2139	100.0

LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

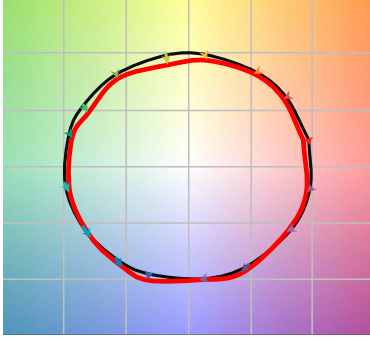
DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

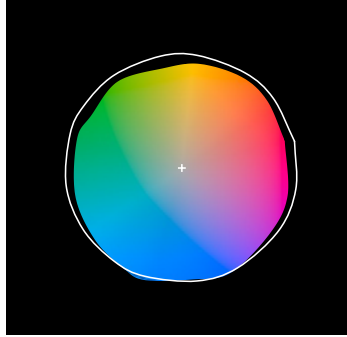
TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



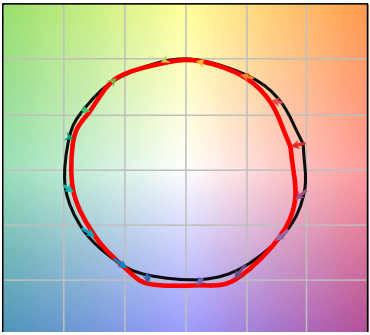
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 90 CRI



TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R_f	84	88
R_g	95	95
CCT (K)	3411	3419
D_{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R_a	84	93
CIE R_g	11	62

COLOR VECTOR GRAPHIC
3500K, 80 CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 80 CRI





LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43
40L	4000	52
45L	4500	55
50L	5000	49
55L	5500	54
60L	6000	61
70L	7000	72
80L	8000	85
90L	9000	99

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DDTV	http://bit.ly/1ijSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
EDM	Lutron	http://bit.ly/1vtjHAI
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps

ENERGY STAR®

For a list of certified models, click on the ENERGY STAR® MODELS link or visit www.energystar.gov.

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