

TOWN OF VERNON
Design Review Commission (DRC)
Meeting Notice & Agenda
Wednesday, June 1, 2022, 7:00 PM
Town Council Chambers 3rd Floor
14 Park Place
Vernon, CT 06066

AGENDA

1. **Call to Order & Roll Call**

2. **Administrative Actions/Requests**

2.1 Approval of the Minutes from March 02, 2022.

3. **Referral from Town Planner**

3.1 PZ-2022-11, 371 Talcottville Rd. An Application of Allan Borghesi for a Site Plan and Special Permit to develop a 3844 sq. ft. Valvoline Oil Change at 371 Talcottville Rd. (Tax Map 04, Block 04, Parcel 6B). The Special Permit requested includes Section 4.9.4.14 (general automotive repairing and services). The property is zoned Commercial.

4. **Other Business/Discussion**

5. **Public Comments Received**

6. **Adjournment**

Shaun Gately on behalf of,
Design Review Commission

DRAFT MINUTES

Town of Vernon
Design Review Commission (DRC)
Wednesday, March 2, 2022, 7:00 p.m.
Council Chambers, Vernon Town Hall
Memorial Building 14 Park Place
Vernon, CT 06066

DRAFT MINUTES

RECEIVED
VERNON TOWN CLERK
22 MAR - 7 AM 10:12

1. Call to Order and Roll Call

Chairperson Holt called the meeting to order at 7:00 p.m. Also in attendance were Commission Members Stephen Ransom and Eva Perrina. Staff member present was Shaun Gately, Economic Development Director.

2. Approval of Minutes from February 2, 2022, meeting
Stephen Ransom MOVED to accept the minutes from the February 2, 2022, meeting as presented. Eva Perrina seconded. Motion carried unanimously.

3. Referral from Town Planner

3.1 Application **[PZ-2022-05], 501 Talcottville Road**. An Application of Vernon Development, LLC for a Site Plan and Special Permit to develop a 10,000 sq. ft. day-care center at 501 Talcottville Road (Tax Map 09, Block 007, Parcel 0001D).

Timothy Coon, P.E., J.R. Russo & Associates, LLC, Eric Spungin and Greg Spungin of Vernon Development, LLC, and James Basile, property owner, were present. Mr. Coon presented the site plan and proposed development, service of utilities, parking, signage, lighting, landscape plans, and building materials. Discussion took place.

*Stephen Ransom MOVED to approve Application **[PZ-2022-05] 501 Talcottville Road** as presented. Eva Perrina seconded. Motion carried unanimously.*

4. Other Business
None

5. Adjournment
Stephen Ransom MOVED to adjourn at 7:29pm. Eva Perrina seconded. Motion carried unanimously.

Respectfully Submitted



Susan Hewett
Recording Secretary

APPLICATION

For Receipt



TOWN OF VERNON PLANNING & ZONING COMMISSION (PZC)

APPLICATION

(Revised March 2021)

The PZC may require additional information to be provided by the applicant in the course of reviewing the application and during the monitoring of the project. Provide all the information requested.

APPLICANT(S)

NAME:

Allan Borghesi

COMPANY:

Borghesi Building + Eng. Co Inc

ADDRESS:

2155 E Main Torrington Ct 06790

TELEPHONE:

860 482 7613

E-MAIL:

Allan@Borghesi building, com

PROPERTY OWNER(S)

NAME:

Expet LLC

ADDRESS:

25 Main St 4th Floor Hartford Ct 06106

TELEPHONE:

203-943-3739

EMAIL:

Glennh@Synpower.net

If the applicant is not the property owner, include a letter from the property owner authorizing the applicant to seek approval by the PZC, if no signature accompanies the application. (ZR Section 2.3)

PROPERTY

ADDRESS:

371 Talcottville Rd

ASSESSOR'S ID CODE:

MAP #

4

BLOCK #

LOT/PARCEL #

6B

LAND RECORD REFERENCE TO DEED DESCRIPTION:

VOLUME:

1977

PAGE

146

DOES THIS SITE CONTAIN A WATERCOURSE AND/OR WETLANDS? (SEE THE INLAND WETLANDS MAP AND REGULATIONS)

 NO X YES

X NO REGULATED ACTIVITY WILL BE DONE

 REGULATED ACTIVITY WILL BE DONE

 IWC APPLICATION HAS BEEN SUBMITTED

ZONING DISTRICT

IS THIS PROPERTY LOCATED WITHIN FIVE HUNDRED (500) FEET OF A MUNICIPAL BOUNDARY?

X NO

 YES:

CHECK IF HISTORIC STATUS APPLIES: NO

 LOCATED IN HISTORIC DISTRICT:

 INDIVIDUAL HISTORIC PROPERTY



TOWN OF VERNON PLANNING & ZONING COMMISSION (PZC)

APPLICATION

(Revised March 2021)

The PZC may require additional information to be provided by the applicant in the course of reviewing the application and during the monitoring of the project. Provide all the information requested.

APPLICANT(S)

NAME: Allan Borghesi
COMPANY: Borghesi Building + Eng. Co Inc
ADDRESS: 2155 E Main Torrington Ct 06790
TELEPHONE: 860 482 7613 E-MAIL: Allan@Borghesi building . Com

PROPERTY OWNER(S)

NAME: Expet LLC
ADDRESS: 25 Main St 4th Floor Hartford Ct 06106
TELEPHONE: 203-943-3739 EMAIL: Glennh@Synpower. Net

If the applicant is not the property owner, include a letter from the property owner authorizing the applicant to seek approval by the PZC, if no signature accompanies the application. (ZR Section 2.3)

PROPERTY

ADDRESS: 371 Talcottville Rd

ASSESSOR'S ID CODE: MAP # 4 BLOCK # LOT/PARCEL # 6B

LAND RECORD REFERENCE TO DEED DESCRIPTION: VOLUME: 1977 PAGE 146

DOES THIS SITE CONTAIN A WATERCOURSE AND/OR WETLANDS? (SEE THE INLAND WETLANDS MAP AND REGULATIONS)

 NO ☒ YES

☒ NO REGULATED ACTIVITY WILL BE DONE

 REGULATED ACTIVITY WILL BE DONE

 IWC APPLICATION HAS BEEN SUBMITTED

ZONING DISTRICT

IS THIS PROPERTY LOCATED WITHIN FIVE HUNDRED (500) FEET OF A MUNICIPAL BOUNDARY?

☒ NO

 YES:

CHECK IF HISTORIC STATUS APPLIES: No

 LOCATED IN HISTORIC DISTRICT:

 INDIVIDUAL HISTORIC PROPERTY

TOWN OF VERNON PLANNING & ZONING COMMISSION (PZC)

APPLICATION

This form is to be used to apply to the Vernon Planning & Zoning Commission (PZC) for a change of zoning district, amendment of the Zoning Regulations, Site Plan of Development (POD), Special Permit(s), amendment of the Subdivision Regulations, and/or approval of a (re) subdivision, or DMV location approval. Provide all the information requested.

The applicant must be the property owner, the property owner's agent, the Town of Vernon, or someone with a direct financial interest in the subject property; said interest shall be explained and written permission for this application must be obtained from the property owner and submitted with this application if the applicant is not the property owner (ZR Section 2.3).

The list of approvals and the references to sections of the Regulations are for informational purposes only to assist with preparation of the PZC application and are not a definitive statement of the sole requirements that may apply to a specific project.

The applicant understands that the application is complete only when all information and documents required by the PZC have been submitted and, further, that any approval by the PZC relies upon complete and accurate information being provided by the applicant. Incorrect information provided by the applicant may make the approval invalid. The PZC may require additional information to be provided by the applicant in the course of reviewing the application and during the monitoring of the project.

Provide all the information requested:

I. APPLICANT:

Name: Allan Borghesi
Title: Chairman
Company: Borghesi Building + Eng Co INC
Address: 2155 E MAIN
TORRINGTON CT 06790
Telephone: 860-482-7613 Fax: 860 482 5082
E-mail: Allan@BorghesiBuildings.com

II. PROPERTY OWNER (S):

Name: Expect LLC c/o Glen Holderbach
Title: NA
Company: Expect LLC
Address: 25 Main St 4th Floor Hartford 06106
Telephone: 203 943 3739 Fax: —
E-mail: Glennh@Synpower.net

III. PROPERTY

Address: 371 Talcottville Rd

Assessor's ID Code: Map # 4 Block # 1464 Lot/Parcel # 6B

Land Record Reference to Deed Description: Volume: 1464 Page 24

Does this site contain a watercourse and/or wetlands? (See the Inland Wetlands Map and IWR Section 2.14, 2.15, 2.23, 2.24, 3.11; 4)

 No

X Yes

X No work will be done in regulated area
 Work will be done in the regulated area

 IWC application has been submitted

 IWC application has not been submitted

Zoning District C

Is this property located within five hundred (500) feet of a municipal boundary?

X No
 Yes:

 Bolton
 Coventry
 Ellington
 Manchester
 South Windsor
 Tolland

Check if Historic Status Applies: Nb

 Located in historic district:

 Rockville
 Talcottville

 Individual historic property

IV. PROJECT

Project Name: Valvoline Building

Project Contact Person:

Name: Allan Borghesi

Title: Chairman

Company: Borghesi Building + Eng. Co Inc

Address: 2155 E Main

Torrington CT 06790

Telephone: 860 482 7613 Fax: 860 482 5082

E-mail: Allan @ Borghesi building, com

V. PZC APPLICATION PROJECT SUMMARY

Describe the project briefly in regard to the purpose of the project and the activities that will occur. Attach to this application a complete and detailed description with maps and documentation as required by the "Town of Vernon Zoning Regulations" and "Town of Vernon Subdivision Regulations".

Purpose: Construct a Valvoline Oil Change

General Activities: Construct a 3844 Sq Ft
Valvoline Oil Change Bldg

VI. APPROVAL (S) REQUESTED

☐ Subdivision or Resubdivision

- ☐ Subdivision (Sub. Sec. 4, 5, 6)
- ☐ Resubdivision (Sub. Sec. 4, 5, 6)
- ☐ Minor modification of subdivision or resubdivision (Sub. Sec. 4.6)
- ☐ Town acceptance of a road (Sub. Sec. 6.5-6.8 & 9)
- ☐ Amendment of Subdivision Regulations (Sub. Sec. II)

See Subdivision Regulations Sec. 4 for application fee schedules.

☐ Soil Erosion and Sediment Control Plan (ESCP) (ZR Sec. 2.117; 18) (Sub. 6.14)

☒ Site Plan of Development (POD) (ZR Sec. 14)

- ☐ POD approval (ZR Sec. 14.1.1.1; 14.1.2)
- ☐ Modification of an approved POD (ZR Sec. 14.1.1.1)
- ☐ Minor modification of a site POD (ZR Sec. 14.1.1.2)

☐ Special Permit(s) (ZR Section 17.3)

- ☐ Special Permit in an aquifer area (ZR Sec. 2.4; 2.5; 2.119; 20)
- ☐ Special Permit for excavation (ZR Sec. 2.52; 2.79; 15)
- ☐ Special Permit for use in a district (ZR Sec. 1.2 & 4)
- ☐ Special Permit for lot coverage (ZR Sec. 1.2; 2.61; 2.68; 4)
- ☐ Special Permit for signs (ZR Sec. 1.2; 2.106-115; 4; 16; 21.7)
- ☐ Special Permit for parking (ZR Sec. 4; 12; 21.4)
- ☐ Special Permit for elderly housing (ZR Sec. 2.60; 17.4)
- ☐ Special Permit for Bed & Breakfast (B & B) (ZR Sec. 2.9; 17.3.4)
- ☐ Special Permit for serving alcohol (ZR Sec. 2.103, 17.1)
- ☐ Special Permit for massage (ZR Sec. 2.76-78; 4)
- ☐ Special Permit for telecommunications (ZR Sec. 2.21; 3.23 & 23)
- ☐ Special Permit for dumps and/or incinerators (ZR Section 8)

____ Other Special Permit(s). Cite ZR Section and describe activity:

Section 4, 9, 4, 14
General Auto Repair + Service

____ Special Permit modifications (ZR Sec. 17.3.2.2). Cite ZR Section and describe activity.

____ **Zoning:**

____ Site specific change of zoning district and map (ZR Sec. 1.2; 1.3; 4)

____ Amendment of Zoning Regulations (Sec. 1.2; 1.3; 4)

____ Site specific change to the Aquifer Protection Overlay Zone Map (ZR Sec. 20.3.2)

See Zoning Regulations Section 22 for application fee schedules.

✓ Dealer or Repairer License (location approval for DMV)

09-015H-0026B
SCF RC FUNDING IV LLC
902 CARNEGIE CENTER BLVD #520
PRINCETON NJ 08540

~~04-0004-008A7
VERNON TOWN OF
14 PARK PL
VERNON CT 06066~~

04-0004-0007A
VERNON TOWN OF
14 PARK PL
VERNON CT 06066-3291

04-0004-0006B
EXPCT LLC
25 MAIN ST 4TH FL
HARTFORD CT 06106

~~04-0004-008A5
TOWN OF VERNON
14 PARK PL
VERNON CT 06066~~

~~04-0004-0005A
EXPCT LLC
25 MAIN ST 4TH FL
HARTFORD CT 06106~~

09-015H-0026D
ALDI INC (CONNECTICUT)
C/O RYAN TAX COMPLIANCE SERVICES LLC
PO BOX 460049 DEPT 501
HOUSTON TX 77056

09-015H-0026A
BOSTONMANCHESTER LLC
715 BOYLSTON ST
BOSTON MA 02116

04-0004-008A3
PARK AT HOCKANUM CROSSING LLC
75 HOCKANUM BLVD OFC
VERNON CT 06066-4093

04-0004-0006A
MARCO ENTERPRISE MANAGEMENT LLLP
1440 CAXAMBAS CT
MARCO ISLAND FL 34145-6604

04-0004-008A6
VERNON SELF STORAGE CENTERS LLC
PO BOX 68
WILBRAHAM MA 01095

04-0004-008A4
TOWN OF VERNON
14 PARK PL
VERNON CT 06066

04-0004-008A7
CHAPMAN CLIFTON B
75 HOCKANUM BLVD
VERNON CT 06066

04-0004-00005
BRIAR KNOLL NCM LLC
2 ENTERPRISE DR STE 406
SHELTON CT 06484

Per Connecticut General Statutes (CGS) Section 8-26: If an application submitted to the Planning & Zoning Commission (PZC) involves any activity or area regulated under the wetlands statutes, an application for this activity must be filed with the Inland Wetlands Commission (IWC) on or before the day the Planning & Zoning Commission (PZC) application is filed by the applicant. (IWR Sec. 3.11)

Per CGS Sec. 8-31: If the proposed activity is to take place within a watershed of a Water company, the applicant is required to file a copy of the application with the Water Company via certified mail within seven (7) days of the date of the application. (IWR Sec. 4.3.6).

The applicant, undersigned, has reviewed the "Town of Vernon Planning and Zoning Regulations and Inland Wetlands and Watercourses Regulations" and has prepared this application with complete and accurate information:

Property Owner, Applicant, or Applicant's Agent:

Allan R. Borghesi
Allan Borghesi Signature Agent

Signature

5/5/22
Date

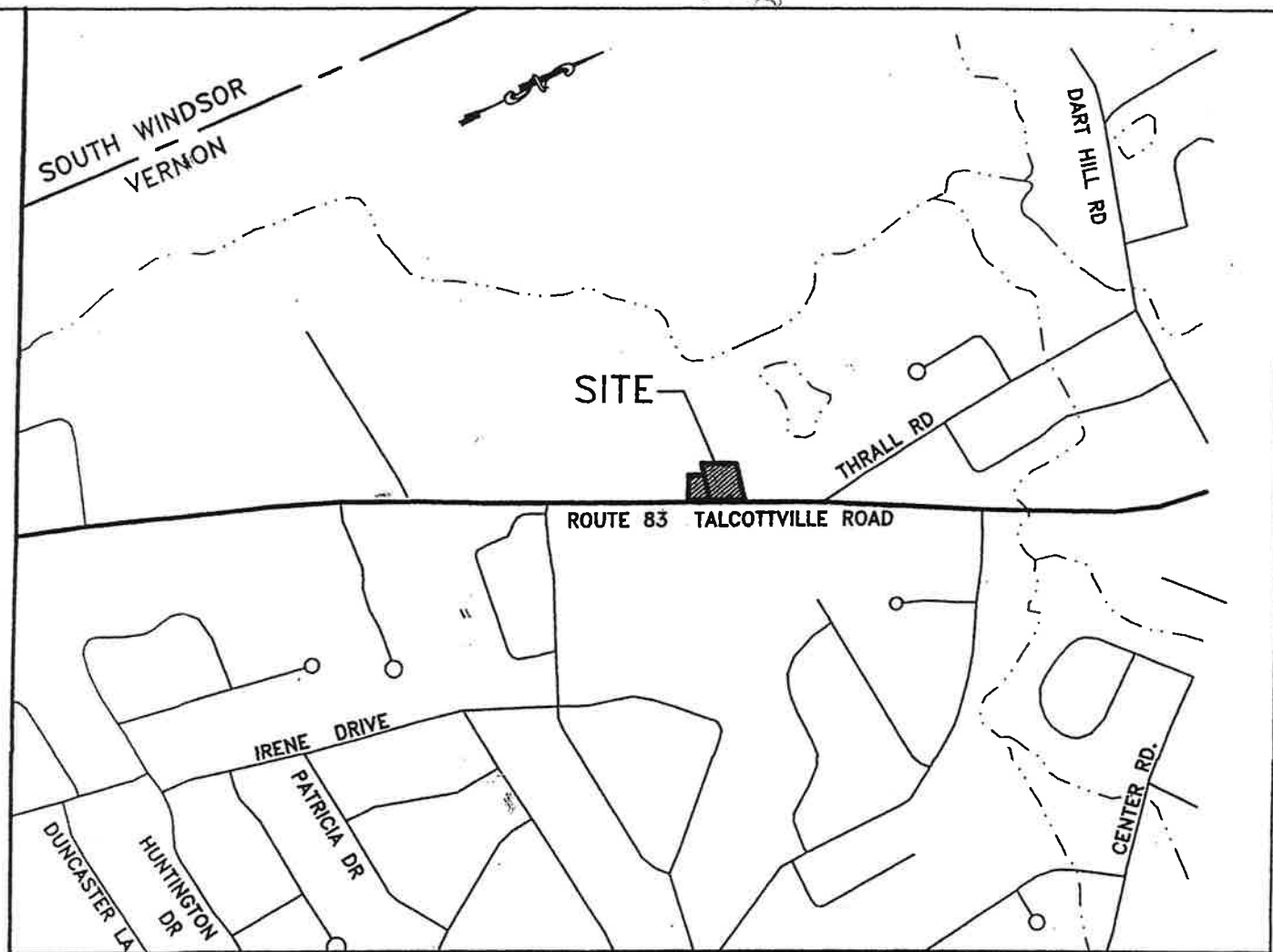
Date

TO BE FILLED IN BY THE PLANNING DEPARTMENT

Date Application Submitted _____

Date Application Received by Commission _____

PZC File: _____



LOCATION PLAN - SCALE: 1"=1000'

NOTES:

- 1) MAP REFERENCES:
A) DRAWING ENTITLED "TOPOGRAPHIC SURVEY PREPARED FOR BORGHESI BUILDING & ENGINEERING CO., INC., PORTION OF 373 & 373 TALCOTTVILLE ROAD, VERNON, CONNECTICUT," PREPARED BY DUFOR SURVEYING LLC, 575 NORTH MAIN STREET, BRISTOL, CT, DATED 08-19-2020 (JOB No. 20-59, FILE No. \20-59)
- 2) OWNER: EXPCOT LLC
25 MAIN STREET, 4TH FLOOR
HARTFORD, CT 06106
- APPLICANT: BORGHESI BUILDING & ENGINEERING CO., INC.
2155 EAST MAIN STREET
TORRINGTON, CT 06790
- 3) REFER TO THE FOLLOWING DRAWINGS PREPARED BY BORGHESI BUILDING & ENGINEERING CO., INC. FOR OTHER PERTINENT INFORMATION:
SP1 SITE PLAN (40 SCALE)
SP2 SITE PLAN (20 SCALE)
SP3 LANDSCAPE, LIGHTING, & LAYOUT PLAN (20 SCALE)
SP4 PHOTOMETRIC PLAN (20 SCALE)
SPD1 EROSION CONTROL NOTES & DETAILS
SPD2 SITE DETAILS
SPD3 SITE DETAILS
- 4) ALL EXISTING UTILITY LOCATIONS ARE FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY ALL LOCATIONS, DIMENSIONS, & ELEVATIONS PRIOR TO CONSTRUCTION. PRIOR TO ANY EXCAVATION, CONTACT "CALL-BEFORE-YOU-DIG" @ 1-800-922-4455 TO MARK ALL UTILITIES WITHIN THE CONSTRUCTION LIMITS.
- 5) ALL PROPOSED UTILITIES SHOWN ON THESE DRAWINGS ARE PRELIMINARY & THEREFORE SUBJECT TO CHANGE. FINAL LOCATION(S) OF UTILITIES SHALL BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY(IES) OR MUNICIPAL AUTHORITIES, & BASED UPON THEIR REVIEW & APPROVAL.
- 6) HANDICAPPED PARKING SPACES SHALL BE DESIGNATED WITH PAINTED PAVEMENT MARKINGS & ABOVE GRADE SIGNS IN ACCORDANCE WITH THE MOST CURRENT MUTCD & ITS ADDENDUMS, & SHALL COMPLY WITH CT STATE BUILDING CODE.
- 7) ALL SIGNS, SIGN MOUNTINGS, & PAINTED MARKINGS SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) & ITS ADDENDUMS.

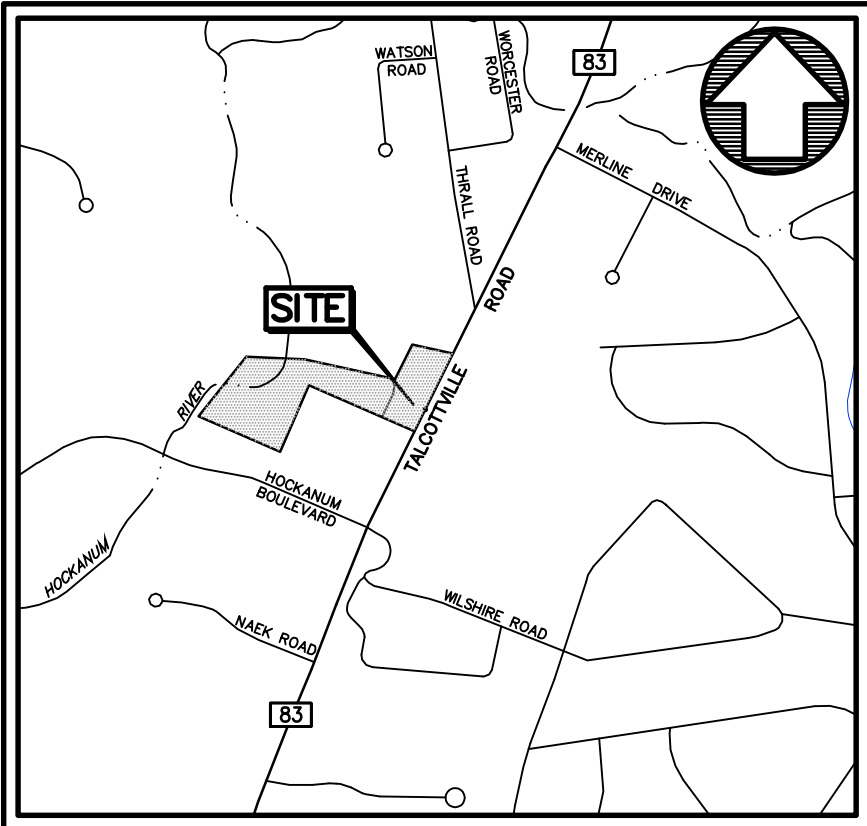
- 8) PRIOR TO BACKFILLING ANY ISLANDS REQUIRING TREES, ANY GRAVEL OR MATERIAL USED IN THE CONSTRUCTION OF THE PARKING AREAS SHALL BE REMOVED, BY THE SITE CONTRACTOR, TO A MINIMUM DEPTH OF 2' (TWO FEET), & REPLACED WITH TOPSOIL, BY THE SITE CONTRACTOR. ANY AREAS TO BE PLANTED WITH SHRUBS &/OR PERENNIALS SHALL HAVE ANY UNSUITABLE MATERIAL REMOVED, BY THE SITE CONTRACTOR, TO A MINIMUM DEPTH OF 18" (EIGHTEEN INCHES), & REPLACED WITH TOPSOIL, BY THE SITE CONTRACTOR.
- 9) ALL LIGHT FIXTURES SHALL BE FULL CUT-OFF FIXTURES.
- 10) ALL DRAINAGE PIPING TO BE ADS N-12 OR APPROVED EQUAL UNLESS OTHERWISE INDICATED.

ZONING INFORMATION TABLE (PROPOSED LOT 6B)

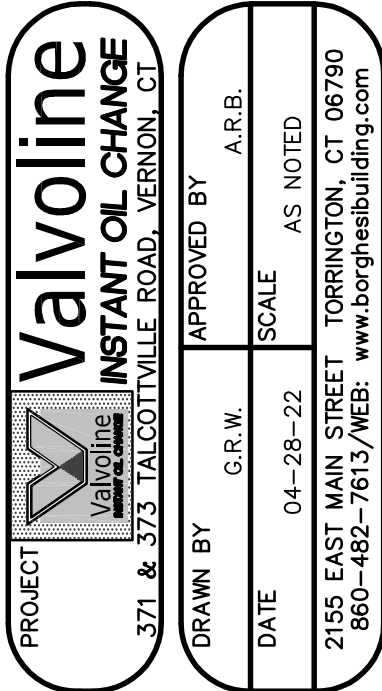
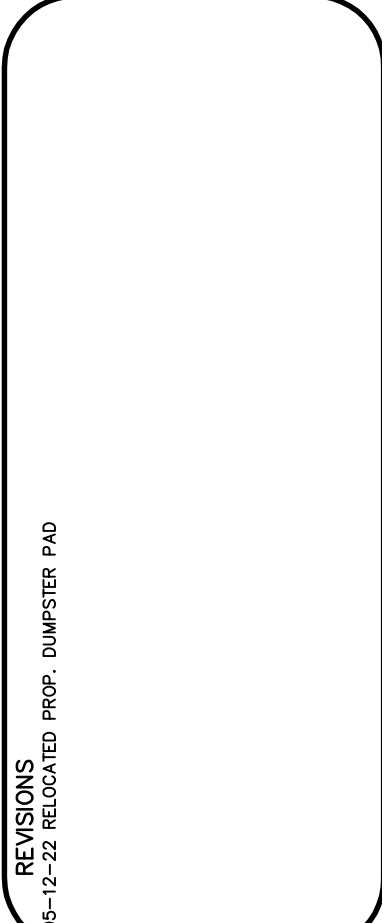
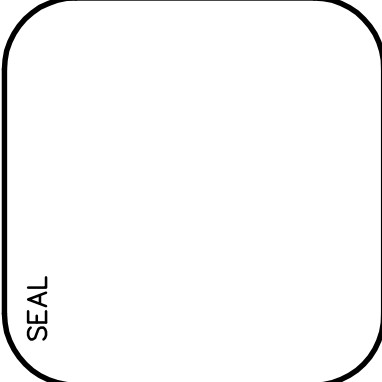
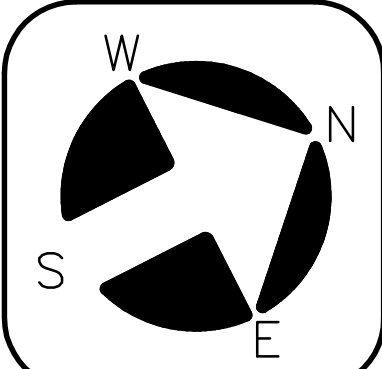
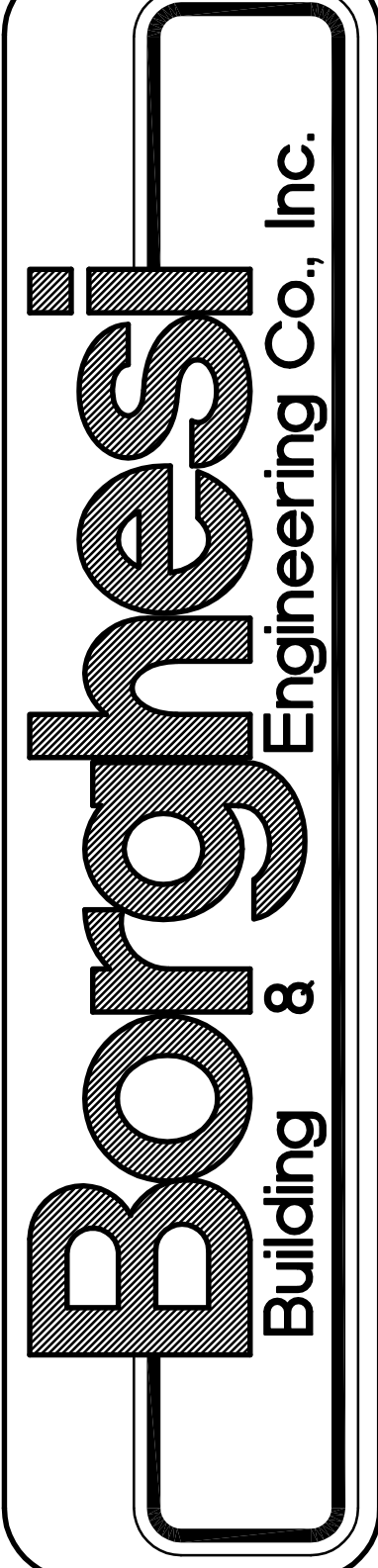
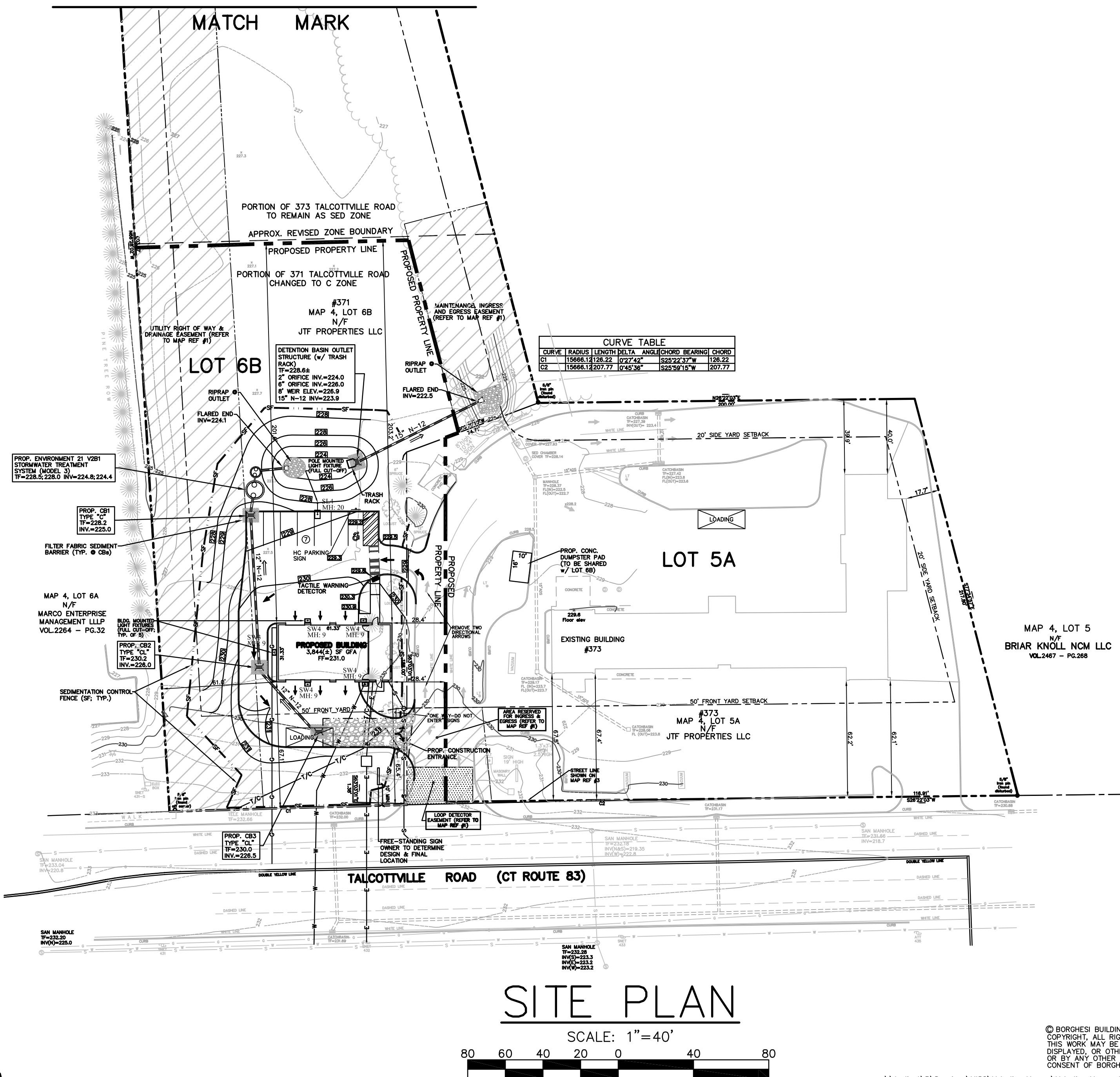
ZONE: 371 TALCOTTVILLE ROAD - COMMERCIAL		
NOTE: A PORTION OF LOT 6B SHALL BE MERGED WITH LOT 5A, & A PORTION OF LOT 5A SHALL BE MERGED WITH LOT 6B. THE PROPOSED PROPERTY LINE REVISIONS ARE SHOWN ON THIS DRAWING. THE INFORMATION IN THIS TABLE IS BASED UPON APPROVAL OF THOSE LOT LINE REVISIONS.		
ASSESSOR'S INFO: 371 TALCOTTVILLE ROAD, TAX ID 04-0004-0006B		
EXISTING USE OF PROPERTY: VACANT PROPERTY		
PROPOSED USE OF PROPERTY: VALVOLINE INSTANT OIL CHANGE SERVICE		
GROSS FLOOR AREA OF PROPOSED BUILDING (MAIN FLOOR + BASEMENT): 3,844(±) SF		
ITEM	REQUIRED/ALLOWED	PROVIDED/PROPOSED
MINIMUM LOT AREA	22,000 SF	46,076(±) SF/1.06(±) ACRES
MINIMUM LOT WIDTH	100'	150'(±)
MINIMUM YARD SETBACKS		
FRONT	50'	65'(±)
SIDE	20'	28'(±)
REAR	50'	201'(±)
MAXIMUM BUILDING COVERAGE	25,000 AGGREGATE SF (ALLOWED)	3,844(±)SF=0.08(±)%
MAXIMUM IMPERVIOUS COVERAGE	60%	13,667(±)SF=29.7(±)%
MAXIMUM HEIGHT	35'/2 STORIES (ALLOWED)	27'(±)
PARKING	OIL CHANGE ONLY, NOT A FULL SERVICE GARAGE CUSTOMER REMAINS IN VEHICLE MOTOR VEHICLE SERVICE, NO REPAIR LICENSE, 7 MINIMUM	8 SPACES + 1 HC SPACE 7 SPACES
LOADING	PROPOSED BUILDING <7,500 SF NONE REQUIRED	1

ZONING INFORMATION TABLE (PROPOSED LOT 5A)

CURRENT ZONES: 373 TALCOTTVILLE ROAD - COMMERCIAL*		
*A PORTION OF THIS PARCEL HAS BEEN RE-ZONED AS AN SED ZONE. THIS TABLE IS BASED UPON "C" ZONE STANDARDS		
NOTE: A PORTION OF LOT 6B SHALL BE MERGED WITH LOT 5A, & A PORTION OF LOT 5A SHALL BE MERGED WITH LOT 6B. THE PROPOSED PROPERTY LINE REVISIONS ARE SHOWN ON THIS DRAWING. THE INFORMATION IN THIS TABLE IS BASED UPON APPROVAL OF THOSE LOT LINE REVISIONS.		
ASSESSOR'S INFO: 373 TALCOTTVILLE ROAD, TAX ID 04-0004-0005A		
EXISTING USE OF PROPERTY: MR. SPARKLE CAR WASH		
PROPOSED USE OF PROPERTY: SAME		
GROSS FLOOR AREA OF EXISTING BUILDING: 7,765(±) SF		
ITEM	REQUIRED/ALLOWED	PROVIDED/PROPOSED
MINIMUM LOT AREA	22,000 SF	293,573(±) SF/6.74(±) ACRES
MINIMUM LOT WIDTH	100'	285'(±)
MINIMUM YARD SETBACKS		
FRONT	50'	65'(±) (EXISTING CONDITION)
SIDE	20'	17.5'(±) (EXISTING CONDITION)
REAR	50'	40'(±) (EXISTING CONDITION)
MAXIMUM BUILDING COVERAGE	25,000 AGGREGATE SF (ALLOWED)	7,765(±)SF=0.03(±)%
MAXIMUM IMPERVIOUS COVERAGE	60%	37,416(±)SF=0.13(±)%
MAXIMUM HEIGHT	35'/2 STORIES (ALLOWED)	27'(±)
PARKING	SELF-SERVE, DRIVE THRU CAR WASH WITH 1 EMPLOYEE NO SIMILAR USES LISTED	2 SPACES
LOADING	7,500-20,000 SF=1 EXISTING BUILDING=7,765 SF 1 REQUIRED	1

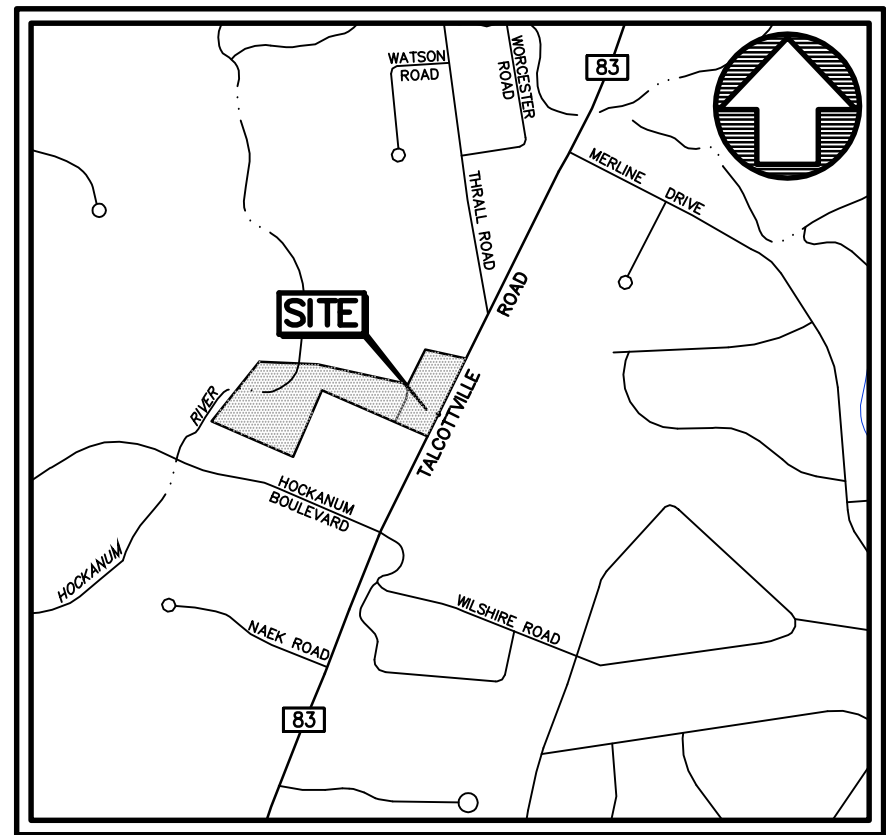


LOCATION MAP
APPROX. SCALE: 1"=1000'



© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED, OR OTHERWISE COMMUNICATED IN ANY FORM
OR BY ANY OTHER MEANS WITHOUT THE PRIOR, WRITTEN
CONSENT OF BORGHESI BUILDING & ENGINEERING CO., INC.

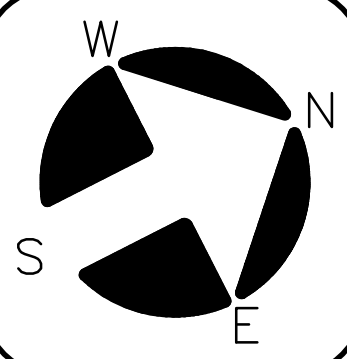
\\tsclinet\F\Drawings\MISC\Valvoline Vernon\Valvoline Vernon SP.dwg 5/12/2022 8:36:49 AM EDT



LOCATION MAP
APPROX. SCALE: 1"=1000'

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	ANGLE	CHORD BEARING	CHORD
C1	15666.12	126.22	0°27'42"	S25°22'37"W	126.22	
C2	15666.12	207.77	0°45'36"	S25°59'15"W	207.77	

Borghesi
Building & Engineering Co., Inc.



SEAL

REVISIONS
05-12-22 RELOCATED PROP. DUMPSTER PAD

PROJECT
Valvoline
INSTANT OIL CHANGE
171 & 373 TALCOTTVILLE ROAD, VERNON, CT

DRAWN BY
G.R.W.

DATE
04-28-22

2185 EAST MAIN STREET TORRINGTON, CT 06790
2060-682-7013/TEX. www.borghesibuilding.com

APPROVED BY
A.R.B.

SCALE
AS NOTED

SHEET NO.
SP2

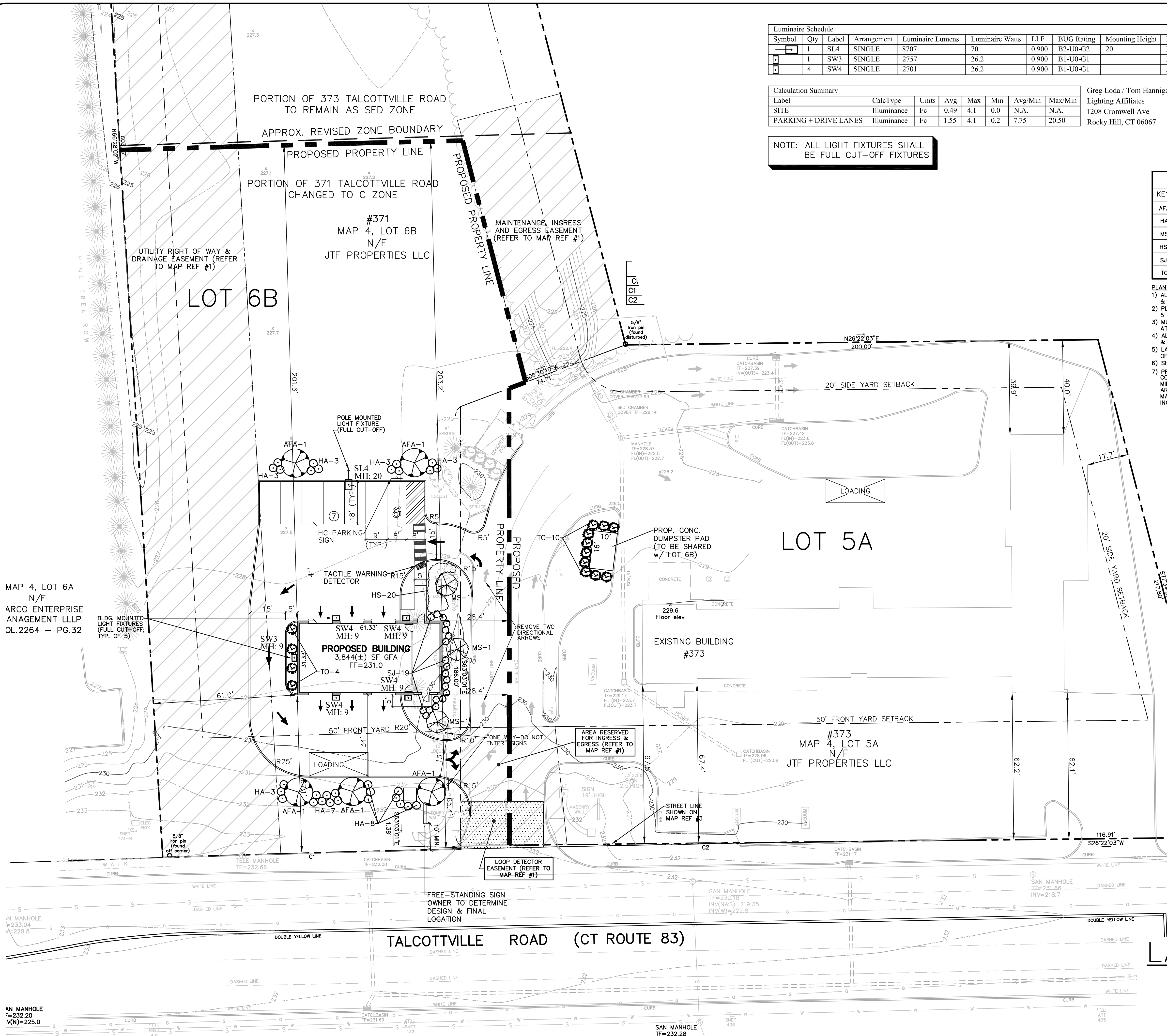
SITE PLAN

SCALE: 1"=20'



© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED, OR OTHERWISE COMMUNICATED IN ANY FORM
OR BY ANY OTHER MEANS WITHOUT THE PRIOR, WRITTEN
CONSENT OF BORGHESI BUILDING & ENGINEERING CO., INC.

\\tsclinet\VP\Drawings\MISC\Valvoline Vernon\Valvoline Vernon SP.dwg 5/12/2022 8:39:08 AM EDT



Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Luminaire Lumens	Luminaire Watts	LLF	BUG Rating	Mounting Height	Description
SL4	1	SL4	SINGLE	8707	70	0.900	B2-U0-G2	20	Lithonia DSX1 LED P2 40K T4M MVOLT SPA DDBXD - SSS 20 4C DM19AS DDBXD 20FT POLE
SW3	1	SW3	SINGLE	2757	26.2	0.900	B1-U0-G1		Lithonia DSXW1 LED 10C 700 40K T3M MVOLT DDBXD
SW4	4	SW4	SINGLE	2701	26.2	0.900	B1-U0-G1		Lithonia DSXW1 LED 10C 700 40K T4M MVOLT DDBXD

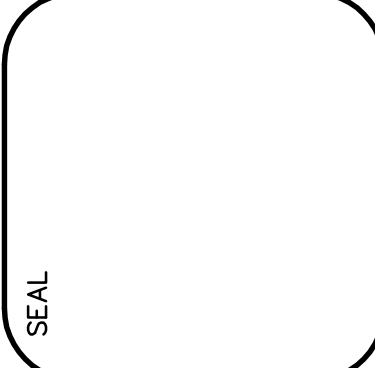
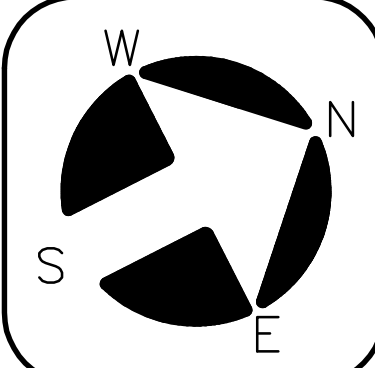
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	ILLUMINANCE	Fc	0.49	4.1	0.0	N.A.	N.A.
PARKING + DRIVE LANES	ILLUMINANCE	Fc	1.55	4.1	0.2	7.75	20.50

Greg Loda / Tom Hannigan
Lighting Affiliates
1208 Cromwell Ave
Rocky Hill, CT 06067
website: www.lightingaffiliates.com
Voice Number : (860) 721-1171 x 219
Email Address : gloda@lightingaffiliates.com


NOTE: ALL LIGHT FIXTURES SHALL
BE FULL CUT-OFF FIXTURES

PLANTING LEGEND			
KEY	QUANT.	COMMON NAME	BOTANICAL NAME
AFA	5	ARMSTRONG RED MAPLE	ACER x FREEMANNII 'ARMSTRONG'
HA	30	SMOOTHLEAF HYDRANGEA	HYDRANGEA ARBORESCENS 'INCREDIBALL'
MS	3	WHITE FLOWERING CRABAPPLE	MALUS 'SNOWDRIFT'
HS	20	GOLDEN YELLOW DAYLILY	HEMOROCALLIS STELLA D'ORO
SJ	19	LITTLE PRINCESS SPIREA	SPIREA 'LITTLE PRINCESS'
TO	14	EMERALD GREEN ARBORWITAE	THUJA OCCIDENTALIS 'SMARAGO'

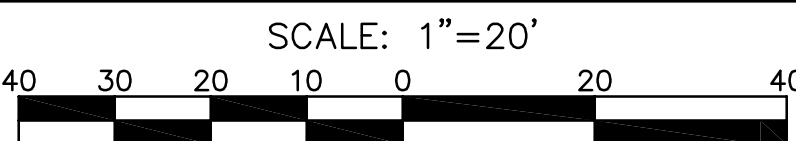
- PLANTING NOTES:
- 1) ALL PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
 - 2) PLANTING SOIL MIX SHALL CONSIST OF LOAM THOROUGHLY INCORPORATED WITH COMPOST PROPORTIONED 5 CY:1 CY ALONG WITH AN ORGANIC STARTER FERTILIZER AT RECOMMENDED RATES.
 - 3) MULCH FOR PLANTING BEDS & TREE SAUCERS TO BE AGED, DOUBLE GROUND PINE BARK APPLIED AT A DEPTH OF THREE (3) INCHES.
 - 4) ALL OTHER DISTURBED AREAS, NOT COVERED BY BY BUILDINGS, PAVEMENT, ETC., SHALL BE GRADED & SEED TO LAWN, MEADOW, WILDFLOWER, ETC., AS DIRECTED BY THE OWNER.
 - 5) LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE. PROPER LANDSCAPE MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER.
 - 6) SHADE TREES SHALL HAVE A BRANCHING HEIGHT OF FIVE (5') MINIMUM.
 - 7) PRIOR TO BACKFILLING ANY ISLANDS REQUIRING TREES, ANY GRAVEL OR MATERIAL USED IN THE CONSTRUCTION OF THE PARKING AREAS SHALL BE REMOVED, BY THE SITE CONTRACTOR, TO A MINIMUM DEPTH OF 2' (TWO FEET), & REPLACED WITH TOPSOIL, BY THE SITE CONTRACTOR. ANY AREAS TO BE PLANTED WITH SHRUBS &/OR PERENNIALS SHALL HAVE ANY UNSUITABLE MATERIAL REMOVED, BY THE SITE CONTRACTOR, TO A MINIMUM DEPTH OF 18" (EIGHTEEN INCHES), & REPLACED WITH TOPSOIL, BY THE SITE CONTRACTOR.



REVISIONS		DATE	DESCRIPTION
1	12-22	REVOCATE PROP. DUMPSTER PAD, AND ADJUSTMENT SCREENING, REV. PLANT LEGEND	

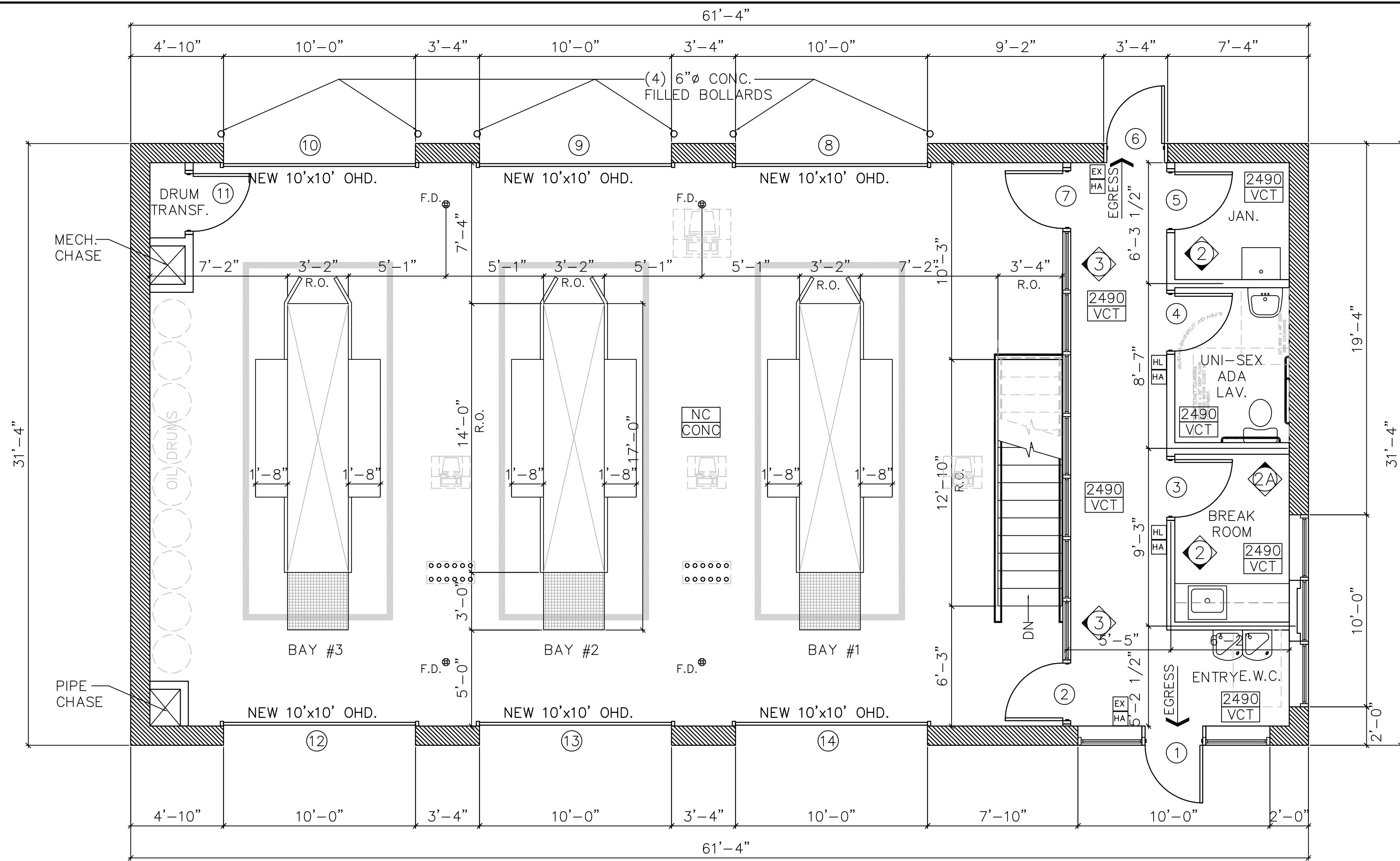
PROJECT			Valvoline		INSTANT OIL CHANGE		371 & 373 TALCOTTVILLE ROAD, VERNON, CT	
	DRAWN BY		G.R.W.		APPROVED BY		A.R.B.	
	DATE		04-28-22		SCALE		AS NOTED	
	2155 EAST MAIN STREET TORRINGTON, CT 06790		1860-682-7613		www.borghesibuilding.com			

LANDSCAPE, LIGHTING, & LAYOUT PLAN

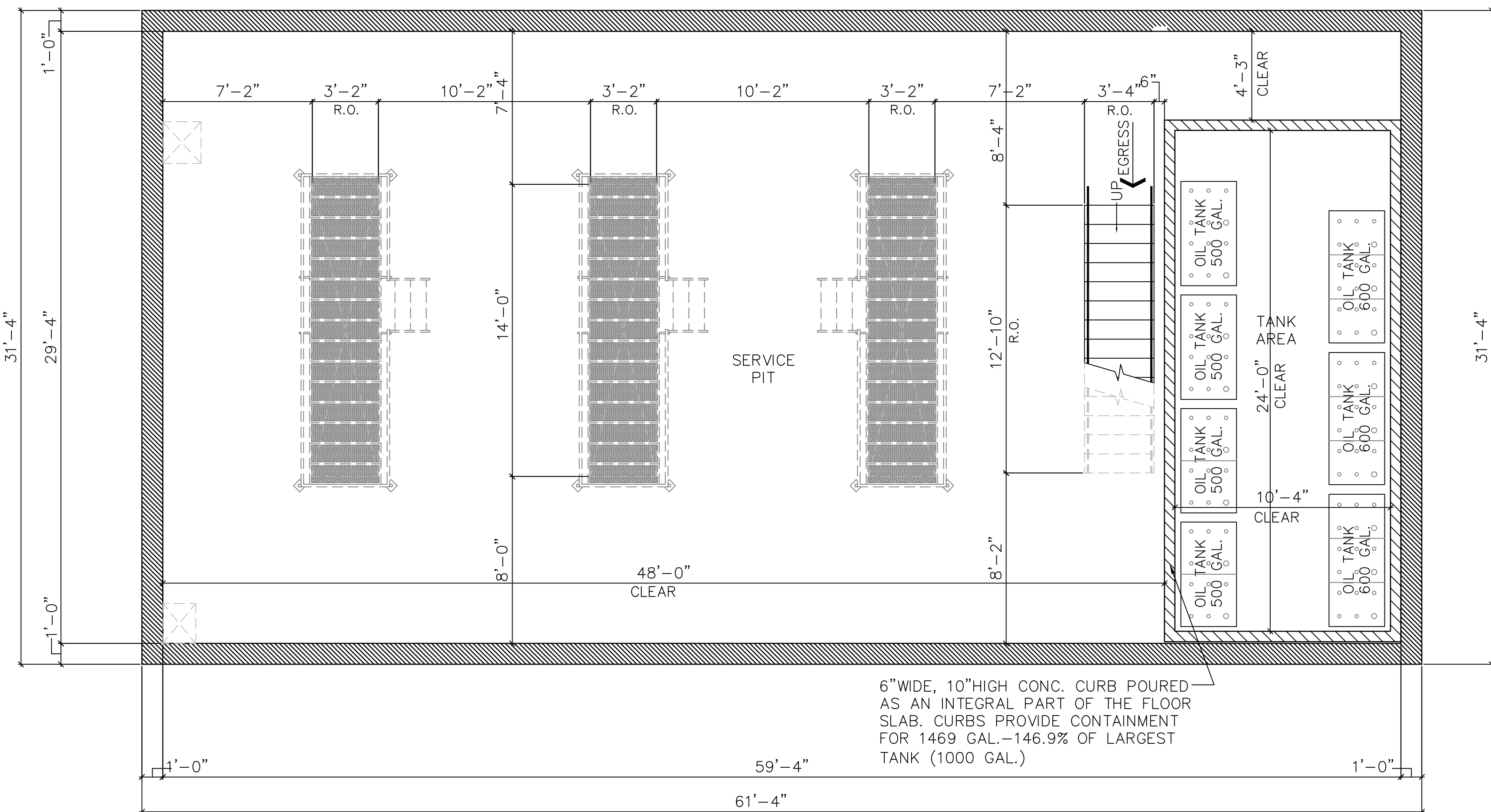


© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED, OR OTHERWISE COMMUNICATED IN ANY FORM
OR BY ANY OTHER MEANS WITHOUT THE PRIOR, WRITTEN
CONSENT OF BORGHESI BUILDING & ENGINEERING CO., INC.

\\tsclient\p\Drawings\MISC\Valvoline Vernon\Valvoline Vernon SP.dwg 5/12/2022 8:48:44 AM EDT

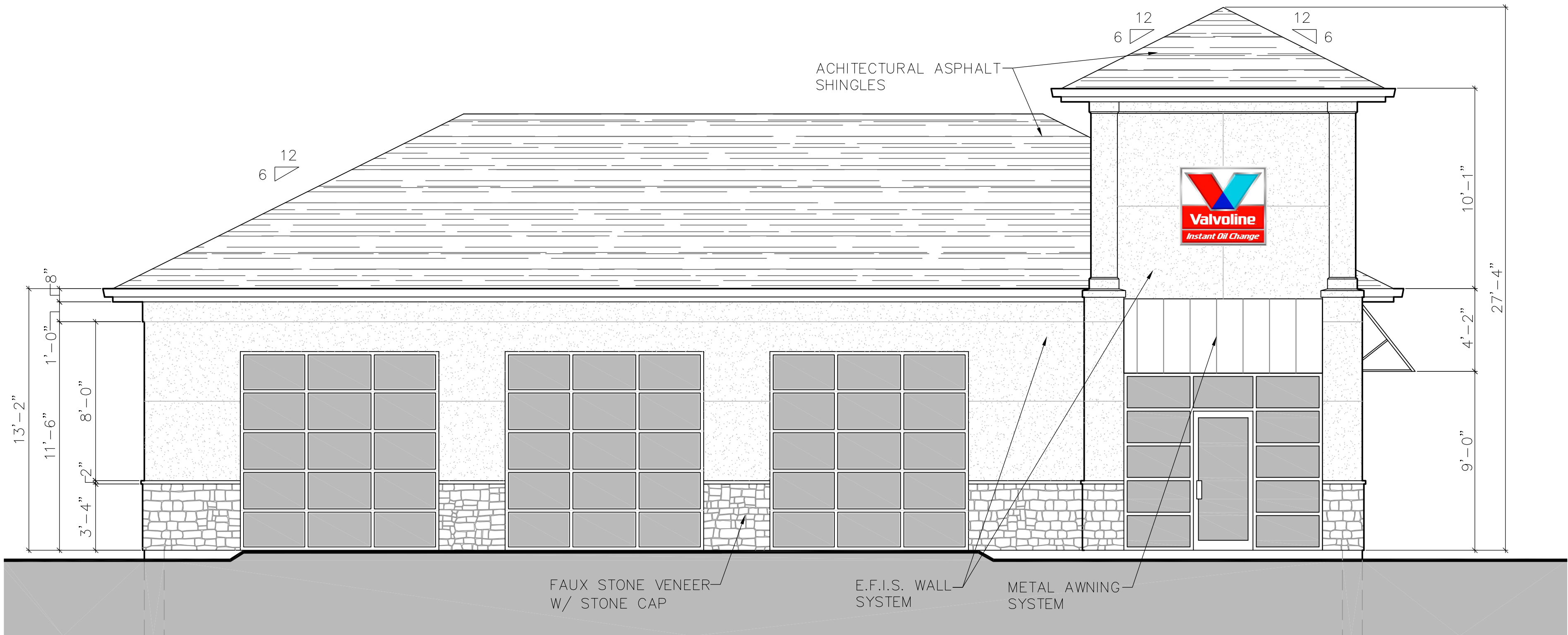


UPPER FLOOR PLAN
SCALE: 1/4"=1'-0"

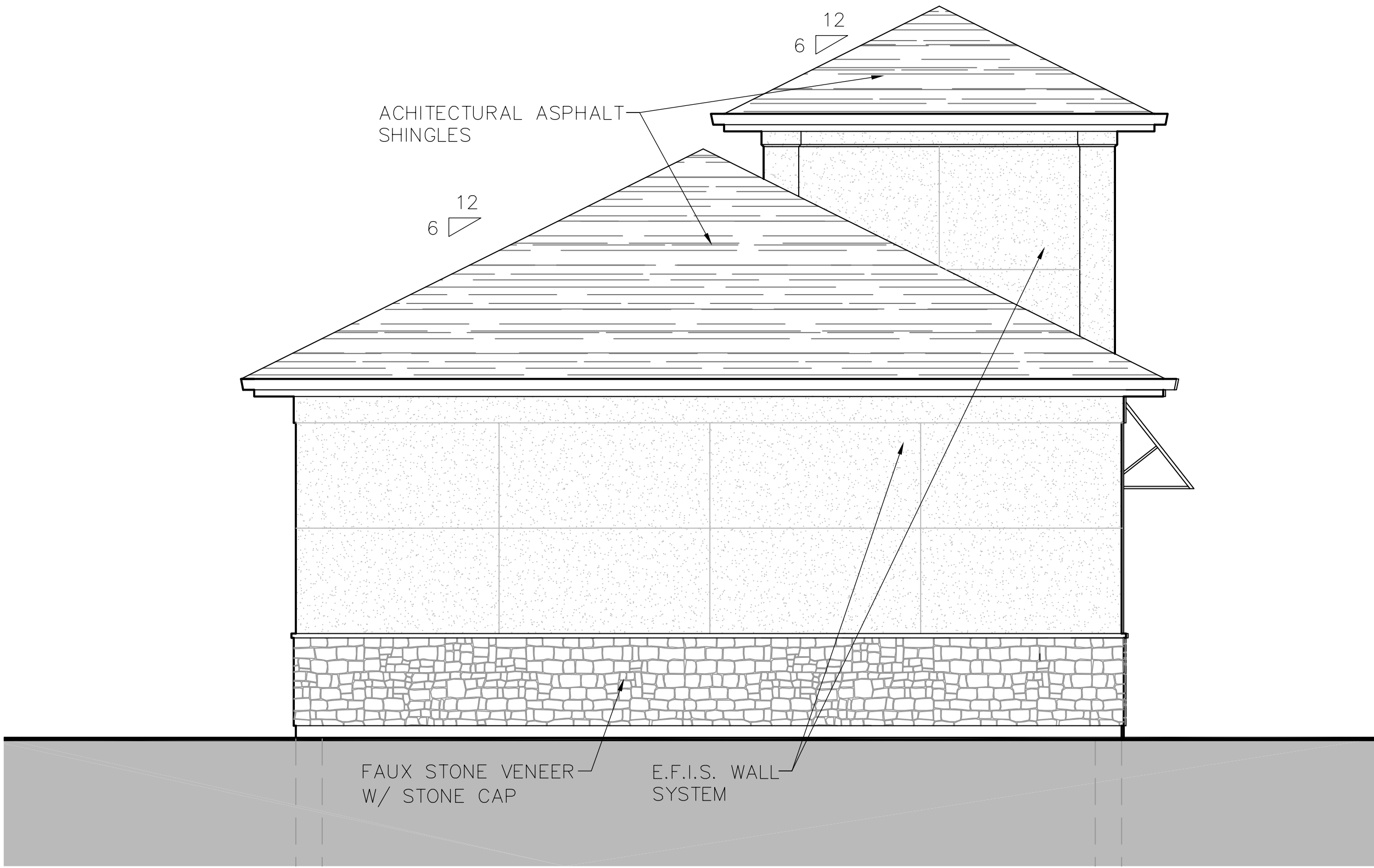


LOWER FLOOR PLAN
SCALE: 1/4"=1'-0"

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED OR OTHERWISE COMMUNICATED IN ANY
FORM OR BY ANY OTHER MEANS WITHOUT THE PRIOR
WRITTEN CONSENT OF BORGHESI BUILDING & ENGINEERING
CO., INC.



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



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

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED OR OTHERWISE COMMUNICATED IN ANY
FORM OR BY ANY OTHER MEANS WITHOUT THE PRIOR
WRITTEN CONSENT OF BORGHESI BUILDING & ENGINEERING
CO., INC.

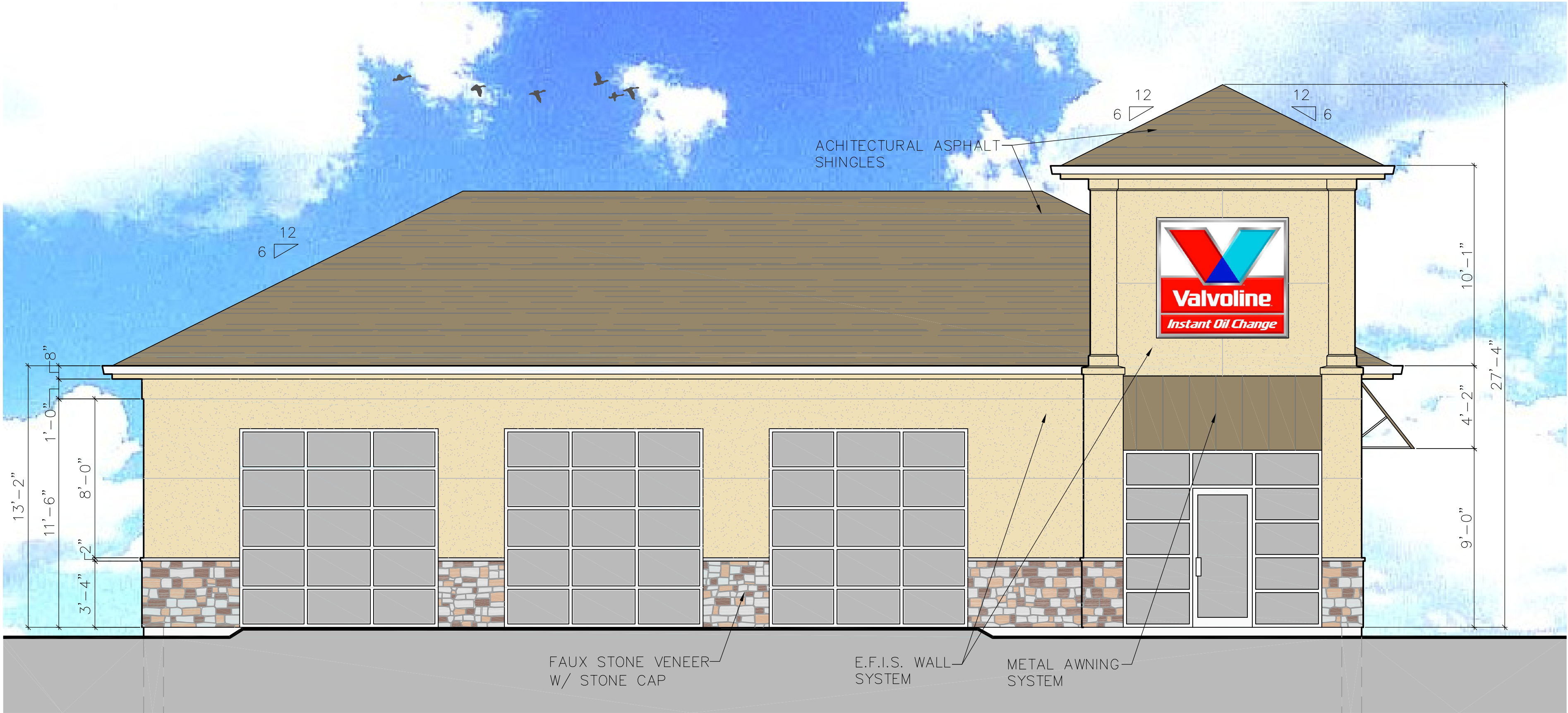
PROJECT	Valvoline		
	INSTANT OIL CHANGE		
	#373 TALCOTTVILLE ROAD, VERNON, CT		
DRAWN BY	J.B.M.	APPROVED BY	C.C.
DATE	08/26/20	SCALE	AS NOTED
2155 EAST MAIN STREET, TORRINGTON, CT 06790			
860-482-7613 / WEB SITE: www.borghesibuilding.com			

SHEET NO.
A2

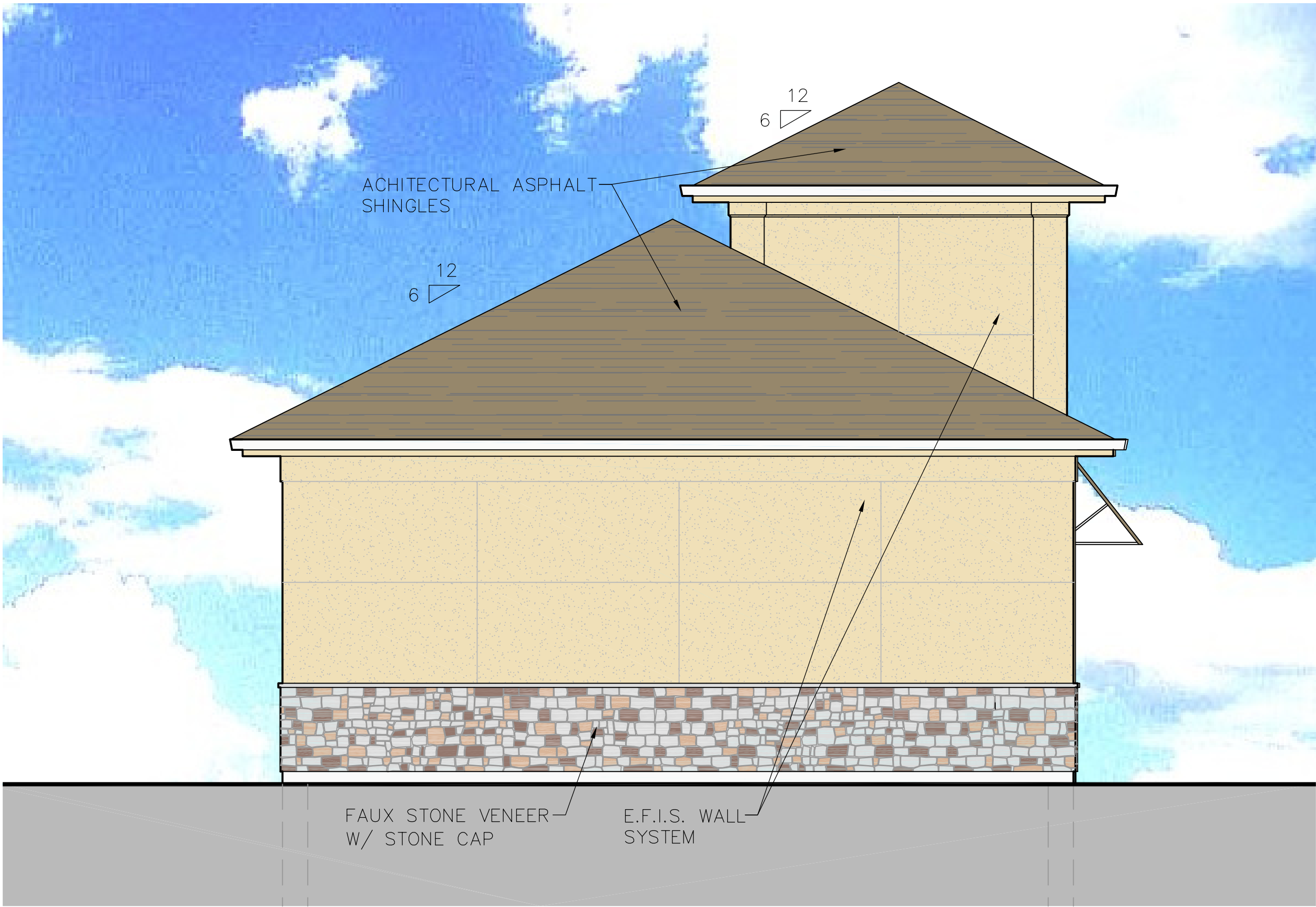
REVISIONS

SEAL

Borghesi
Building & Engineering Co., Inc.




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



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

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED OR OTHERWISE COMMUNICATED IN ANY
FORM OR BY ANY OTHER MEANS WITHOUT THE PRIOR
WRITTEN CONSENT OF BORGHESI BUILDING & ENGINEERING
CO., INC.

P:\Drawings\MISC\valvoline- Vernon\Valvoline- Vernon_ARCH.dwg, A2, 12/2/2019 12:13:15 PM

PROJECT				
	#373 TALCOTTVILLE ROAD, VERNON, CT			
	DRAWN BY	J.B.M.	APPROVED BY	C.C.
	DATE	12/02/19	SCALE	AS NOTED
2155 EAST MAIN STREET, TORRINGTON, CT 06790 860-462-7613 / WEB SITE: www.borghesibuilding.com				

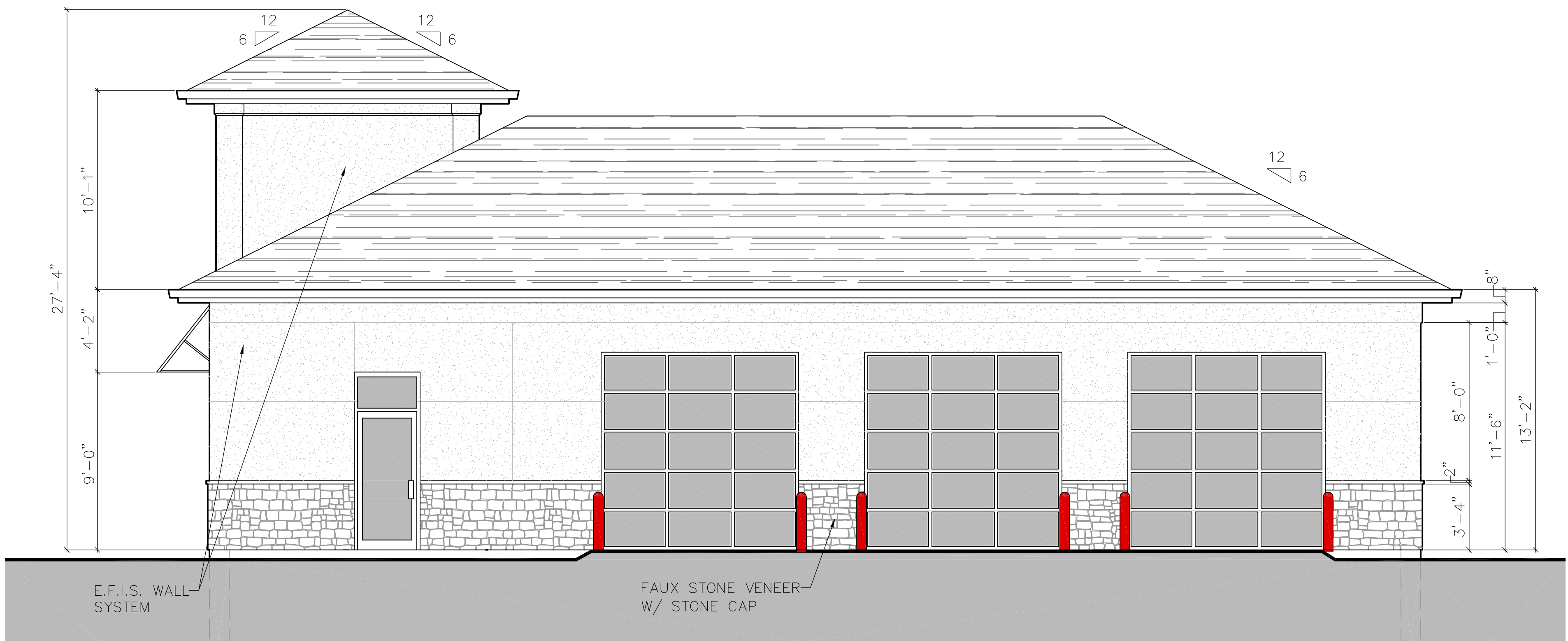
SEAL

REVISIONS

SHEET NO.

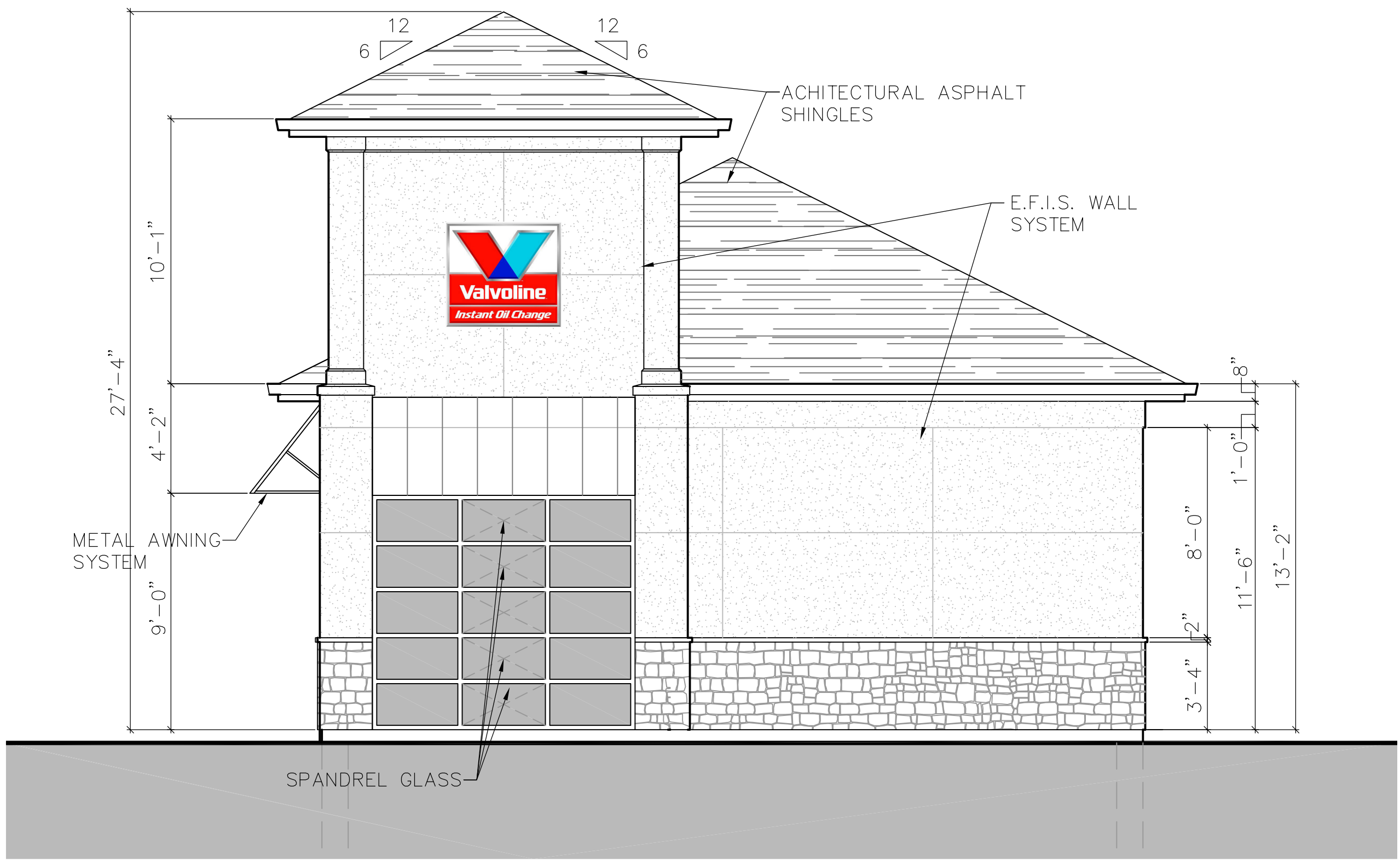
A2

Borghesi
Building & Engineering Co., Inc.



NORTH ELEVATION

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



EAST ELEVATION

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

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED OR OTHERWISE COMMUNICATED IN ANY
FORM OR BY ANY OTHER MEANS WITHOUT THE PRIOR
WRITTEN CONSENT OF BORGHESI BUILDING & ENGINEERING
CO., INC.

PROJECT	Valvoline INSTANT OIL CHANGE #373 TALCOTTVILLE ROAD, VERNON, CT
DRAWN BY	J.B.M.
DATE	08/26/20
APPROVED BY	C.C.
SCALE	AS NOTED
2155 EAST MAIN STREET, TORRINGTON, CT 06790 860-482-7613 / WEB SITE: www.borghesibuilding.com	

SHEET NO.
A2A

REVISIONS

SEAL

Borghesi
Building & Engineering Co., Inc.



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



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

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED OR OTHERWISE COMMUNICATED IN ANY
FORM OR BY ANY OTHER MEANS WITHOUT THE PRIOR
WRITTEN CONSENT OF BORGHESI BUILDING & ENGINEERING
CO., INC.

P:\Drawings\MISC\Valvoline- Vernon\Valvoline- Vernon_ARCH.dwg, A2A, 12/2/2019 12:12:36 PM

PROJECT		Valvoline	
#373 TALCOTTVILLE ROAD, VERNON, CT		INSTANT OIL CHANGE	
DRAWN BY	J.B.M.	APPROVED BY	C.C.
DATE	12/02/19	SCALE	AS NOTED
2155 EAST MAIN STREET, TORRINGTON, CT 06790		WWW.BORGHESIBUILDING.COM	

SHEET NO.
A2A

SEAL

REVISIONS

Borghesi
Building & Engineering Co., Inc.

PRODUCTION:

PURSUANT TO CONNECTICUT P.A. 83-388, A SOIL EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE IS REQUIRED FOR THIS PROJECT.

THIS NARRATIVE DESCRIBES MEASURES REQUIRED TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION OF THE PROPOSED SITE WORK SHOWN ON THIS PLAN. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE DESIGNED IN ACCORDANCE WITH A DOCUMENT ENTITLED "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CT DEP.

THE GUIDELINES ARE OBTAINABLE FROM CONNECTICUT'S DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION AT THE FOLLOWING WEB ADDRESS:
<https://portal.ct.gov/DEEP/Water/Soil-Erosion-and-Sediment-Control-Guidelines/Guidelines-for-Soil-Erosion-and-Sediment-Control>, AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

PROJECT DESCRIPTION:

THE APPLICANT PROPOSES TO CONSTRUCT A 3,844 (±) SQUARE FOOT BUILDING WITH APPURTENANT PARKING. THE BUILDING WILL BE SERVED BY PUBLIC SEWER & WATER. THE SITE IS LOCATED AT 371-373 TALCOTTVILLE ROAD (CT RTE. 83) IN VERNON, CT.

RUN OFF FROM THE DEVELOPED SITE WILL BE COLLECTED IN CATCH BASINS AND PIPED TO AN ON-SITE DETENTION BASIN, WHICH WILL OUTLET INTO AN EXISTING DRAINAGE EASEMENT. RIPRAP WILL BE INSTALLED AT ALL PIPE OUTLETS TO MINIMIZE SOIL EROSION.

ANTICIPATED START OF CONSTRUCTION IS SUMMER OF 2022. SEDIMENT AND EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND WILL BE IN PROPER WORKING ORDER BEFORE CONSTRUCTION BEGINS. SEDIMENT AND EROSION MEASURES WILL BE MAINTAINED IN PROPER WORKING ORDER THROUGH COMPLETION OF CONSTRUCTION AND WILL REMAIN IN PLACE AND CONTINUE TO BE MAINTAINED AFTER CONSTRUCTION HAS BEEN COMPLETED, UNTIL ALL DISTURBED AREAS ARE STABILIZED.

CONSTRUCTION SCHEDULE:

1. OBTAIN A COPY OF ALL PROJECT LAND-USE PERMITS. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL PERMIT REQUIREMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. INSTALL SILTATION CONTROL FENCES AND FILTER FABRIC SILT BARRIERS AT EXISTING CATCH BASINS.
3. INSTALL CONSTRUCTION ENTRANCE.
4. REMOVE TREES, BRUSH, AND STUMPS IN AREAS TO BE CLEARED AS REQUIRED.
5. STRIP TOPSOIL FROM WORK AREAS, STOCKPILE AND INSTALL SILT FENCE AT TOE OF PILE.
6. ROUGH GRADE DETENTION BASIN.
7. ROUGH GRADE SITE, BEGIN CONSTRUCTION OF BUILDING.
8. INSTALL UTILITIES AND FILTER FABRIC SILT BARRIERS AT NEW CATCH BASINS.
9. BACKFILL FOUNDATION.
10. ROUGH GRADE NEW PARKING AREAS, INSTALL AND GRADE PAVEMENT BASE AND CURBS.
11. PAVE PARKING AREAS AND INSTALL WALKS.
12. GRADE, STABILIZE AND SEED ALL DISTURBED AREAS.
13. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL A DURABLE GRASS STAND IS ESTABLISHED IN ALL NON-PAVED AREAS.

LAND DISTURBANCE:

THE FOLLOWING PROCEDURES SHALL BE USED FOR ALL LAND DISTURBING ACTIVITIES:

1. ALL AREAS SHALL REMAIN UNDISTURBED UNTIL IMMEDIATELY PRIOR TO PROPOSED CONSTRUCTION ACTIVITIES.
2. LAND CLEARING SHALL PROCEED AT THE SAME RATE AS CONSTRUCTION.
3. REMOVAL OF VEGETATION SHALL BE RESTRICTED TO THOSE AREAS NECESSARY FOR CURRENT CONSTRUCTION ACTIVITIES.
4. DISTURBED AREAS SHALL BE LIMITED TO A MAXIMUM OF 20 FEET BEYOND THE PHYSICAL DIMENSIONS OF THE ROADS, DRIVEWAYS, UTILITY TRENCHES, SEPTIC SYSTEMS, AND AREAS TO BE GRADED.
5. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE CONFINED TO THE DISTURBED AREAS ONLY.
6. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEANING OF NEARBY STREETS, AS ORDERED BY THE TOWN OR STATE, OF ANY DEBRIS FROM HIS CONSTRUCTION ACTIVITIES.
7. THE USE, STORAGE, OR DISPOSAL OF ANY MATERIAL NOT IN ACCORDANCE WITH WHAT IS SHOWN ON THE APPROVED PLAN OR REQUIRED BY THE REGULATORY AGENCY MAY RESULT IN THE IMMEDIATE REVOCATION OF ANY PERMIT/APPROVAL GRANTED BY THE COMMISSION.

GENERAL NOTES:

WHENEVER CONSTRUCTION SHALL TAKE PLACE IN AREAS DESIGNATED AS WETLANDS OR AS AREAS TO BE ECOLOGICALLY PROTECTED, THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING REGULATION:

THE DIVERSION OF WATERCOURSES SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT INJURY TO PERSONS OR PUBLIC HEALTH AND TO PREVENT FLOODING OF PUBLIC OR PRIVATE PROPERTY.

ALL EXISTING VEGETATION SHALL BE PROTECTED, AND ONLY THAT CLEARING AND CUTTING WHICH IS ABSOLUTELY NECESSARY FOR THE PROPOSED CONSTRUCTION OR TO CLEAR THE PERMANENT RIGHT-OF-WAY SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PRESERVE TREES. THOSE TREES IDENTIFIED TO BE SAVED SHALL BE PROTECTED FROM DAMAGE BY CONSTRUCTION EQUIPMENT BY SUITABLE MEANS. ALL REGULATED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOURS.

EXCESS EXCAVATED MATERIAL, INCLUDING THAT RESULTING FROM CLEARING AND GRUBBING, SHALL NOT BE DEPOSITED WITHIN THE REGULATED AREA.

WORK WITHIN REGULATED AREAS:

IF WORK IS REQUIRED WITHIN A REGULATED WETLAND, WATER COURSE, OR ADJACENT AREA, SITE DISTURBANCE SHALL BE LIMITED TO THE AREA ABSOLUTELY NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE RESTORED AS CLOSELY AS POSSIBLE TO THEIR ORIGINAL NATURAL STATE. THE DEVELOPER SHALL OBTAIN THE NECESSARY PERMIT(S) FROM THE TOWN WETLANDS COMMISSION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PERMIT, MAPS APPROVED BY THE TOWN INDICATING THE LIMITS OF INLAND WETLANDS, AND CONDITIONS FOR CONSTRUCTION WITHIN THESE REGULATED AREAS. THE CONTRACTOR SHALL BE REQUIRED TO STRICTLY ADHERE TO ALL REQUIREMENTS AND RESTRICTIONS IMPOSED BY THE WETLANDS PERMIT.

SOIL EROSION AND SEDIMENT CONTROL MEASURES:

ALL WATERCOURSES SHALL BE PROTECTED FROM SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION. THIS PROVISION APPLIES PARTICULARLY TO DEWATERING ACTIVITIES, STORAGE OF EXCAVATED OR STOCKPILED MATERIAL, AND TRENCH OR DITCH EXCAVATION.

HAYBALES OR SYNTHETIC FILTER BARRIER FENCE, AS SPECIFIED, IS TO BE INSTALLED AT ALL LOCATIONS AS INDICATED ON THE PLANS TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE DRAINAGE SYSTEM, WETLANDS, OR WATER COURSES. HAYBALES OR SILT FENCE SHALL BE STAKED AS SHOWN ON THE PLAN, AND ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE HAYBALES OR SILT FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED AS FILL IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT UPON. HAYBALES OR SILT FENCES ARE TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCES ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.

DURING CONSTRUCTION, ANY ADDITIONAL SEDIMENT/EROSION CONTROL MEASURES DEEMED NECESSARY BY THE TOWN SHALL BE IMPLEMENTED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND MAINTENANCE OF ALL SEDIMENT/EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN.

STOCKPILES THAT CONSIST OF ERODIBLE MATERIAL, SUCH AS STRIPPED TOPSOIL, ROAD FILL, SOILS EXCAVATED FROM ROAD CUTS AND FOUNDATION HOLES, ETC., SHALL CONFORM TO THE FOLLOWING CRITERIA:

1. LOCATION: STOCKPILES SHALL BE LOCATED WITHIN THE AREA OF THE PROPOSED DISTURBANCE AND AWAY FROM THE FOLLOWING:
 - WETLANDS
 - WATER CONVEYANCE CHANNELS
 - STORM DRAINAGE SYSTEM INLETS
 - TOP OF STEEP SLOPES
2. SEDIMENT CONTROL-ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS, SUCH AS EROSION CONTROL FENCE OR BAY SALE BARRIERS, PLACED APPROXIMATELY TEN FEET 10' FROM THE TOE OF SLOPE. THE SIDE SLOPES OF ERODIBLE STOCKPILED MATERIAL SHOULD BE NO STEEPER THAN 2:1. STOCKPILED MATERIAL NOT TO BE USED WITHIN THIRTY DAYS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE.

THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATERIAL PRIOR TO TRENCHING OPERATIONS, AND SHALL STORE THEM SEPARATELY FROM OTHER MATERIAL DURING EXCAVATION. IN AREAS DESIGNATED AS INLAND WETLANDS, THE UPPER STRATA, TO A DEPTH OF 2 FEET, SHALL BE STRIPPED AND STORED SEPARATELY. DURING BACKFILLING, THESE MATERIALS SHALL BE REPLACED AND FINISHED AS THEY EXISTED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT INTRODUCE ANY FILL MATERIALS INTO ANY AREAS DESIGNATED AS INLAND WETLANDS WITHOUT FIRST OBTAINING A PERMIT(S) FROM THE TOWN AND DISTRICT COMMISSIONER.

THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED EXCAVATION IN PROPER CONDITION UNTIL EXPIRATION OF THE MAINTENANCE PERIOD. ALL DEPRESSIONS APPEARING IN THE BACKFILLED EXCAVATION SHALL BE PROPERLY FILLED AND RESEDED IF NECESSARY.

RIPRAP:

RIPRAP, IF SPECIFIED, IS TO BE INSTALLED FOR ENERGY DISSIPATION AND TO CONTROL EROSION. THE RIPRAP IS TO BE INSTALLED BEFORE THE OUTLET STRUCTURES ARE WORKING, AND ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED, IF IN SEASON, OR SOIL IS TO BE STABILIZED BY OTHER MEANS. THE RIPRAP MAY REQUIRE SODDING, MULCHING, OR OTHER METHODS AS DEFINED IN THE "GUIDELINES".

RIPRAP SHALL BE INSPECTED PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIPRAP OR FILTER BLANKET, OR DISLODGED ANY OF THE RIPRAP OR FILTER BLANKET MATERIALS. REPAIR IMMEDIATELY UPON OBSERVED FAILURE.

ALL VEGETATION REQUIRING REMOVAL FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OF OFF-SITE. NO TREES, BRUSH, OR STUMPS SHALL BE BURIED OR OTHERWISE DISPOSED OF ON-SITE.

TRENCH EXCAVATION AND BACKFILL:

CARE SHALL BE TAKEN TO EXCAVATE TO THE CORRECT LINE AND GRADE AND WIDTH AT ALL POINTS. THE METHODS AND EQUIPMENT USED FOR EXCAVATION MUST BE ADAPTED TO THE CONDITIONS AT THE SITE AND THE DIMENSIONS OF THE REQUIRED TRENCH. THE WIDTH OF THE GROUND OR STREET SURFACE, CUT OR DISTURBED SHALL BE KEPT AS SMALL AS PRACTICABLE TO ACCOMMODATE THE WORK.

TRENCH EXCAVATION, BELOW THE TWO FOOT DEPTH WHICH IS TO BE STRIPPED AND STORED SEPARATELY, SHALL BE STOCKPILED AND USED AS THE TRENCH BACKFILL MATERIAL, UNLESS THE ENGINEER DECLARES IT UNSUITABLE FOR BACKFILL MATERIAL. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.

ESTABLISH VEGETATION COVER ON DISTURBED AREAS:

1. SCARIFY SURFACE OF ALL AREAS TO BE TOPSOILED; PLACE A MINIMUM OF

1. SCARIFY SURFACE OF ALL AREAS TO BE TOPSOILED; PLACE A MINIMUM OF 4" TOPSOIL ON ALL AREAS TO BE SEEDED.
2. FERTILIZE AT THE FOLLOWING RATES:
 - a) FOR SPRING SEEDING, APPLY 19-19-19 FERTILIZER AT A RATE OF 10 LB.S/1000 SF AND WORK INTO SOIL. SIX TO EIGHT WEEKS LATER AN ADDITIONAL 10 LB.S/1000 SF IS TO BE APPLIED.
 - b) FOR FALL SEEDING, APPLY 19-19-19 FERTILIZER AT A RATE OF 10 LB.S/1000 SF AND WORK INTO SOIL.
3. SMOOTH AND FIRM SEEDED; APPLY SEED AT THE RATE(S) SPECIFIED BELOW. COVER SEED WITH NOT MORE THAN 1/4" OF SOIL.
APPLY APPROPRIATE SEED MIXTURE PER THE FOLLOWING:
PERMANENT SEEDING
30% CREEPING RED FESCUE
35% SHAMROCK KENTUCKY BLUEGRASS
35% ALL-SPORT PERENNIAL RYE
APPLICATION RATE: 5 LB.S/1000 SF
TEMPORARY SEEDING (WINTER SOIL PROTECT)
ANNUAL RYE OR PERENNIAL RYE
APPLICATION RATE: 2 LB.S/1000 SF
4. MULCH IMMEDIATELY WITH HAY FREE FROM WEED SEEDS AT A RATE OF 3 BALES/1000

ENVIRONMENT FROM THE "PAVED" PORTION OF THE SITE IS COLLECTED IN "CATCH BASINS." AN ENVIRONMENTAL "CATCH BASIN" TREATMENT SYSTEM ENHANCES WATER QUALITY PRIOR TO DISCHARGE TO THE RUNDOLPH CREEK. PROPOSED DETENTION BASIN.

A SEDIMENT AND EROSION PLAN IS INCLUDED ON THE PROJECT CONSTRUCTION DRAWINGS, WHICH DETAILS MEASURES NECESSARY DURING CONSTRUCTION. THIS STORMWATER OPERATIONS & MAINTENANCE PLAN IS PREPARED TO ADDRESS LONG TERM MAINTENANCE OF THE SITE FACILITIES TO ENHANCE STORMWATER QUALITY.

FOR THE CONSTRUCTION AND POST-CONSTRUCTION PERIODS, THE FOLLOWING IS PERFORMED. THE INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN THE SPRING OF EACH YEAR. ADDITIONAL INSPECTIONS SHALL BE MADE AFTER ANY LARGE RAINFALL EVENT (THREE INCHES OF RAIN OR MORE WITHIN A 24 HOUR PERIOD). THE OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THIS PLAN.

1. CLEAN PARKING LOT. SWEEP PARKING LOT OF ANY ACCUMULATED SAND FROM WINTER ROAD MAINTENANCE OPERATIONS.
2. CLEAN CATCH BASINS. ALL CATCH BASINS SHALL BE VACUUMED TO REMOVE ALL DEBRIS AND SEDIMENT. IF THE ACCUMULATED SEDIMENT EXCEEDS HALF THE DEPTH OF THE DISCHARGE, THE BOTTOM OF THE STRUCTURE AND THE FLOW LINE OF THE OUTLET PIPE, MID-WINTER CLEANING PROGRAM SHALL BE IMPLEMENTED THE FOLLOWING WINTER.
3. CLEAN THE ENVIRONMENT 21 STORMWATER TREATMENT SYSTEMS. THE UNITS SHALL BE VACUUMED TO REMOVE ALL DEBRIS. IF ANY OIL OR GREASE IS REMOVED AND DISPOSED OF AS HAZARDOUS WASTE, AN ADDITIONAL INSPECTION SHALL BE MADE IN THE FALL OF EACH YEAR. IF WARRANTED, A FALL CLEANING MAY BE NEEDED. PLEASE SEE THE ATTACHED MAINTENANCE INFORMATION PROVIDED BY ENVIRONMENT 21.
4. INSPECT RIPRAP: REMOVE ANY DEBRIS AND ACCUMULATED SEDIMENT. ANY DISPLACED RIPRAP OR MISSING RIPRAP SHALL BE REPLACED.
5. INSPECT DETENTION BASIN AND OUTLET STRUCTURE. REMOVE ANY ACCUMULATED SEDIMENT AND DEBRIS.

STORAGE CAPACITY AND CLEANOUT FREQUENCY

RECOMMENDED PRACTICE FOR THE VZBI IS TO PLAN ON SEMI-ANNUAL INSPECTIONS AND ANNUAL PUMP-OUT BASED ON THE FOLLOWING GENERAL DESIGN GUIDELINES:

(1) SEDIMENT SUMP -- THE RATE AT WHICH THE SUMP FILLS WILL DEPEND ON SITE ACTIVITIES. HEAVY WATER SANDING WILL CREATE EXTRA SEDIMENT, WHILE REGULAR SWAGING WILL REDUCE ACCUMULATION. BASED ON THE 1992 NURP STUDIES, ENVIRONMENT 21 RECOMMENDS USING 0.2 CY/ACRE PAVEMENT PER YEAR FOR INITIAL ESTIMATES OF SEDIMENT ACCUMULATION FROM COMMERCIAL AREAS AND RETAIL PARKING AREAS. THIS VALUE IS USED BY ENVIRONMENT 21 TO SIZE THE VZBI SEDIMENT SUMP TO PROVIDE STORAGE FOR SEVERAL YEARS OF SEDIMENT RUNOFF.

(2) FLOATABLES CHAMBER -- OIL SHEEN AND FLOATING DEBRIS ARE ASSUMED TO ACCUMULATE AT A RATE OF 5.0 GAL/YR/ACRE OF PAVEMENT. THIS VALUE IS USED BY ENVIRONMENT 21 TO DESIGN FOR A STORED FLOATABLES DEPTH OF LESS THAN ONE INCH WITHIN A 1-1/2 YEAR PERIOD.

SEDIMENT CHAMBER INSPECTION:

DURING THE FIRST YEAR OF OPERATION, ENVIRONMENT 21 RECOMMENDS INSPECTIONS IN FEBRUARY, MAY, AND OCTOBER. THIS INSPECTION SCHEDULE CAN BE MODIFIED IN SUBSEQUENT YEARS ACCORDING TO EXPERIENCE AND/OR TO MEET SPECIFIC STORMWATER PERMIT REQUIREMENTS.

CAST IRON MANHOLE FRAME WITH VENTED COVER IS PROVIDED IN THE MANHOLE ROOM TO MAKE THE SEDIMENT CHAMBER ACCESSIBLE FOR MEASUREMENT AND CLEANING. SEDIMENT SHOULD BE REMOVED WHEN THE TOP OF THIS PILE IS 6"-12" DEEP. THE NORMAL WATER SURFACE ELEVATION IN SEDIMENT SUMP WILL BE 4.5-5 FT ABOVE THE FLOOR SEDIMENT CHAMBER.

DURING ROUTINE INSPECTIONS, WATER DEPTH ABOVE THE SEDIMENT MAY BE DETERMINED BY SLOWLY LOWERING A MEASURING ROD WITH 6-IN DIAMETER END PLATE (USED TO GENTLY COMPACT THE TOP OF THE SEDIMENT PILE) A STADIA ROD AND SIGHTGUN ARE USEFUL FOR THIS PROCEDURE. DUSTING THE ROD BEFOREHAND WILL CLEARLY SHOW THE POINT WHERE THE SEDIMENT PILE AS THE WET PORTION OF THE ROD. THE MEASURING ROD MUST BE CAREFULLY LOWERED TO LIMIT SEDIMENT PILE COMPACTION TO 1-2 INCHES.



N.T.S.

V2B1 ONLINE SYSTEM / ADAPT TO SITE LAYOUT

DATE: 04-25-18
DWG. NO.: Detail - V2B1

V2B1 SIZING TABLE						
V2B1 MODEL #	D1 (ft.)	D2 (ft.)	FS (ft.)	IMPERVIOUS AREA, ACRES	INLET PIPE (in.)	TREATMENT FLOW (cfs)
3	4	5	4.13	0.3-1.3	12	0-1
4	5	5	4.43	1.3-2.0	15	1-2
6	6	5	4.72	2.0-3.0	18	2-3
9	7	5	4.94	3.0-4.0	21	3-5
11	8	6	5.13	4.0-5.3	24	5-7
17	10	8	5.51	5.3-8.3	30	7-10
25	12	8	5.94	8.3-11.7	36	10-13

environment

Global Stormwater Solutions

P.O. Box 55 | Ellettsville | IN 47006
Phone: 1-800-809-2801 | Fax: 1-800-809-2801
www.env21.com | enveng@env21.com

NOTES:

- 1) RAINFALL INTENSITY USED FOR TREATMENT FLOW=0.80-1.0 IN/HR
- 2) MAX. OPERATING LOSS APPROX. 0.5 FT

MANUFACTURING NOTES:

- 1) DESIGN OF INTERNAL PVC PIPING PROVIDED TO LICENSED MANUFACTURER BY ENVIRONMENT 21, LLC.
- 2) LOCATION AND SIZE OF MANHOLE OPENINGS MAY BE ADJUSTED BY LICENSED MANUFACTURER.
- 3) G.G. TO GROUT INLET & OUTLET PIPES
- 4) CONNECT MANHOLES WITH BOOTED CONNECTIONS.

CALL: 1-800-809-2801

The drawing consists of two main views: a Plan view and a Section A-A view.

Plan View: Shows two circular manhole structures, labeled D1 and D2. D1 is on the left and D2 is on the right. An "ORIFICE" is located between them. "G.C. TO GROUT" lines indicate the grout locations for the inlet and outlet pipes. Arrows indicate the "ORIENT TANGENTIAL INLET PIPE TO FIT SITE LAYOUT" and "ORIENT RADIAL OUTLET PIPE TO MATCH SITE LAYOUT". A "GROUT" area is shown around the inlet pipe to D1.

Section A-A: A cross-sectional view of the system. It shows the "FRAME & COVER (VENTED TYP.)" on top of the manholes. An "OPTIONAL BYPASS PIPE" is shown with "FLOW" arrows. A "BAFFLE WALL" is located in the outlet pipe. The "ORIFICE" is shown at the bottom of the inlet pipe. "FLOW" arrows indicate the direction of water movement through the system.

SECTION A-A

GENERAL NOTES:
MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C478
SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.

DESIGN LOADING: AASHTO HS20-44

PROPRIETARY INFORMATION: PATENTS PENDING - ALL RIGHTS TO ENVIRONMENT 21, LLC.

ENVIRONMENT 21 V2B1 STORMWATER TREATMENT SYSTEM

FLLOATABLES CHAMBER INSPECTION:
THE DEPTH OF OIL SHEEN AND FLOATING DEBRIS CAN BE ESTIMATED USING VISUAL INSPECTION WHILE GENTLY STIRRING THE WATER SURFACE IN THE FLLOATABLES CHAMBER. THIS DEPTH WILL TYPICALLY BE LESS THAN TWO INCHES AND FLLOATABLES CAN BE SKIMMED FROM THE SURFACE.

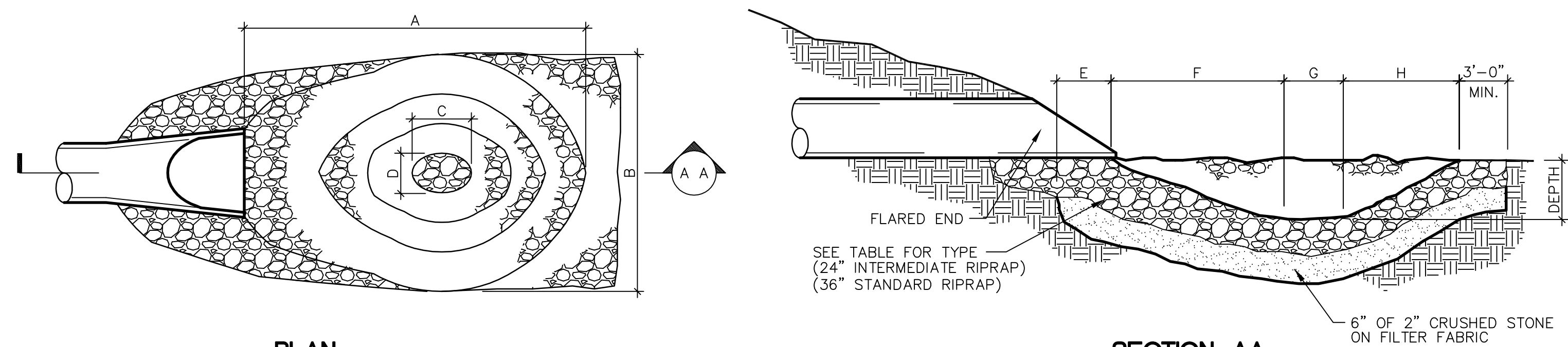
ORGANIC DEBRIS THAT HAS BECOME WATERLOGGED AND SETTLED TO THE FLOOR OF THE CHAMBER CAN BE ASSUMED TO BE PRESENT IN RELATIVELY SMALL QUANTITIES THAT MAY NEED TO BE REMOVED ANNUALLY.

PUMP-OUT:
THE PUMP-OUT OF THE V281 IS ACHIEVED USING STANDARD TRUCK-MOUNTED SEWER AND CATCH BASIN CLEANERS WITH POSITIVE DISPLACEMENT ROTARY LOBE VACUUM PUMPS AND 8-IN DIAMETER SUCTION HOSE. MANHOLE OPENINGS PROVIDE ACCESS TO BOTH THE SEDIMENT AND FLLOATABLE CHAMBERS.

DISPOSAL OF WASTEWATER, SEDIMENT, AND FLLOATABLES:
COMMERCIAL AND RETAIL SITES ARE USUALLY ADJACENT AND TRIBUTARY TO PUBLIC STORMWATER SYSTEMS, AND ACCORDINGLY PUMPER TRUCK CONTENTS SHOULD BE DELIVERED TO A DISPOSAL FACILITY EQUIVALENT TO THAT USED BY THE LOCAL HIGHWAY DEPARTMENT. FOR INDUSTRIAL SITES, PUMPER TRUCK CONTENTS SHOULD BE DELIVERED TO A DISPOSAL SITE APPROVED BY THE OWNER OF THE INDUSTRIAL SITE.

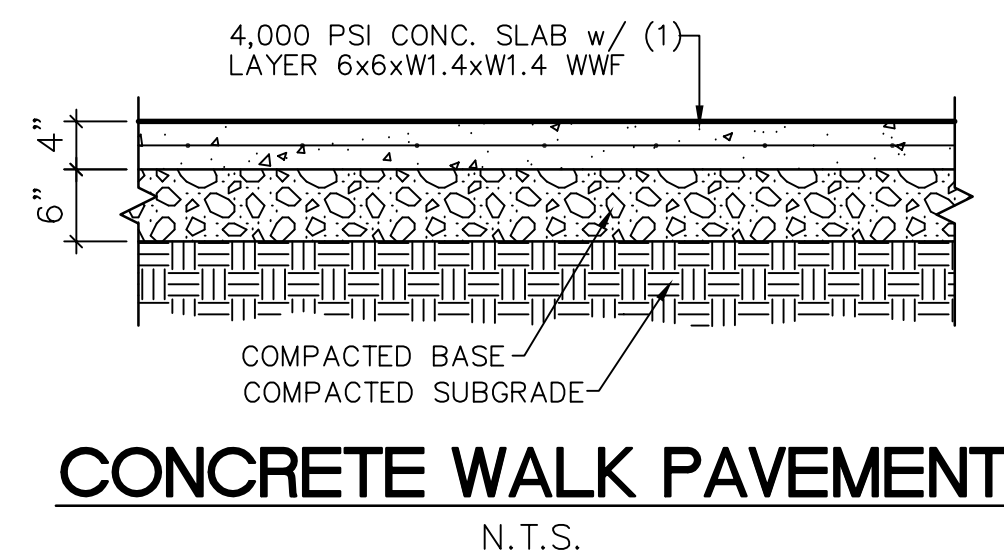


N.T.S.

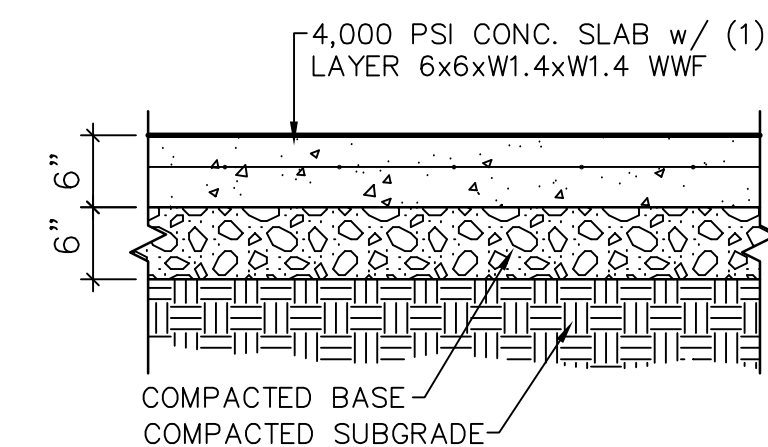


PIPE SIZE	A	B	C	D	E	F	G	H	RIPRAP TYPE	DEPTH
≤15"	20'	7'	4'	2'	1'	12'	4'	4'	INTERMEDIATE	2'-0"

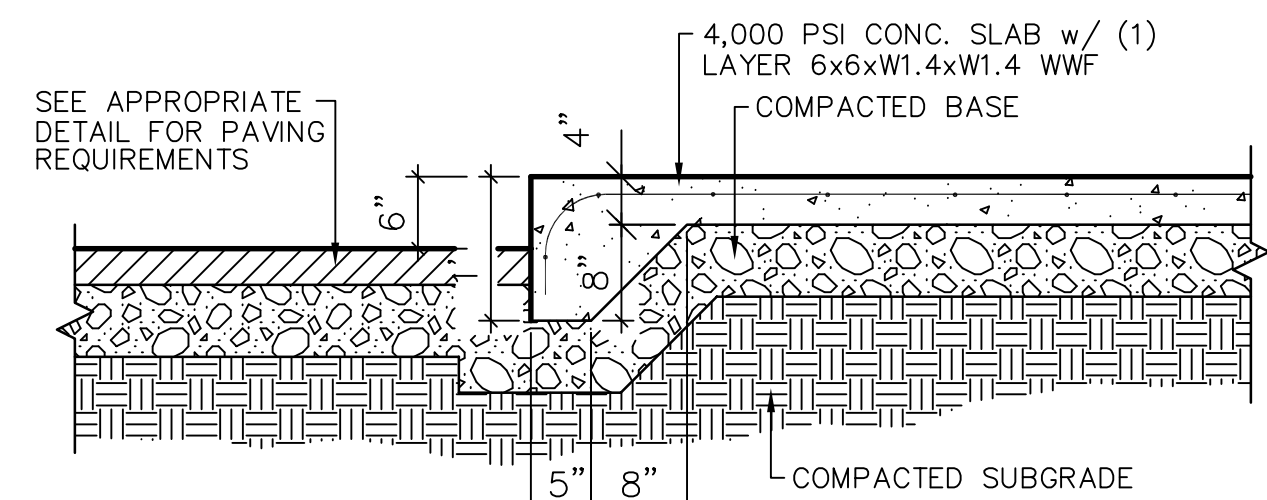
RIPRAP PLUNGE POOL DETAIL
N.T.S.



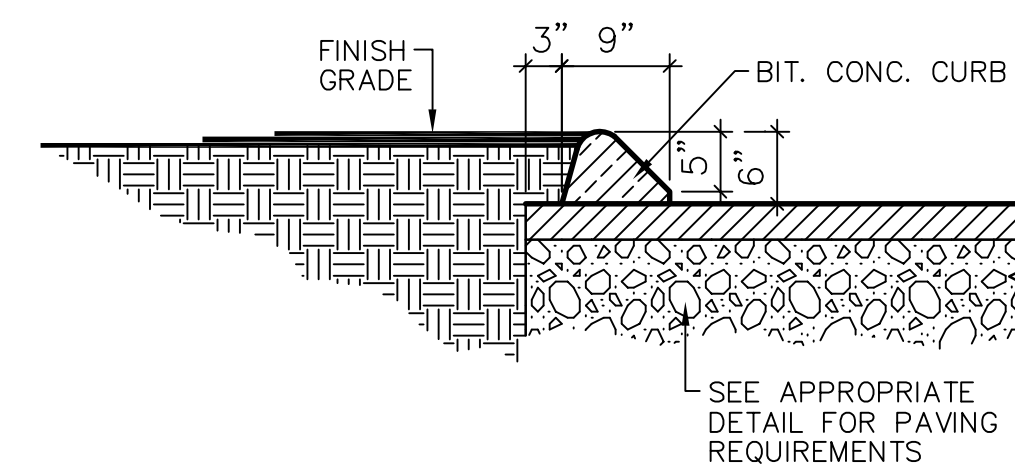
CONCRETE WALK PAVEMENT
N.T.S.



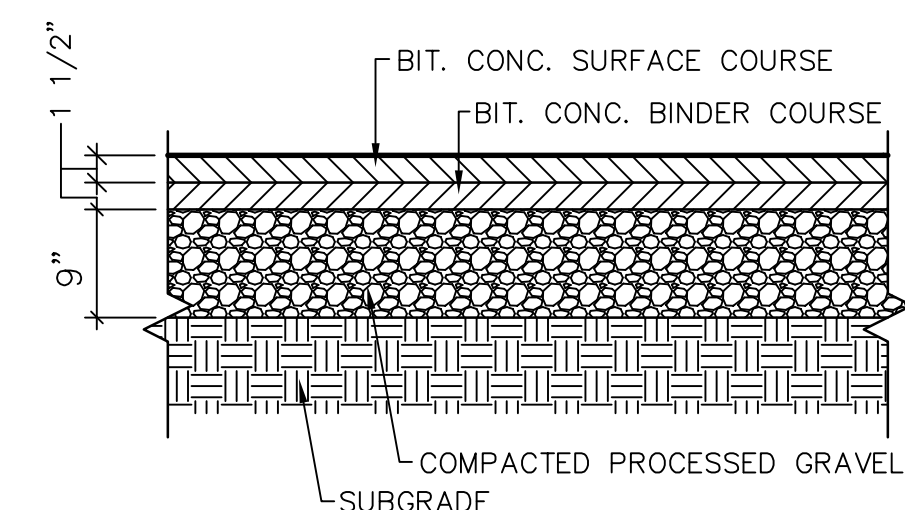
DUMPSTER PAD
N.T.S.



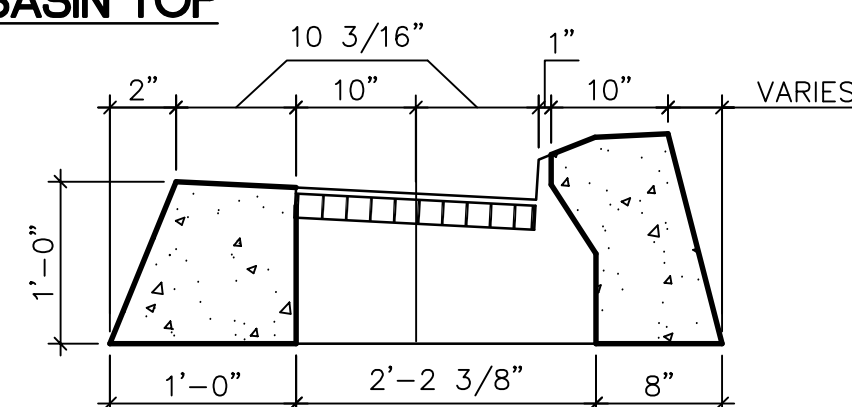
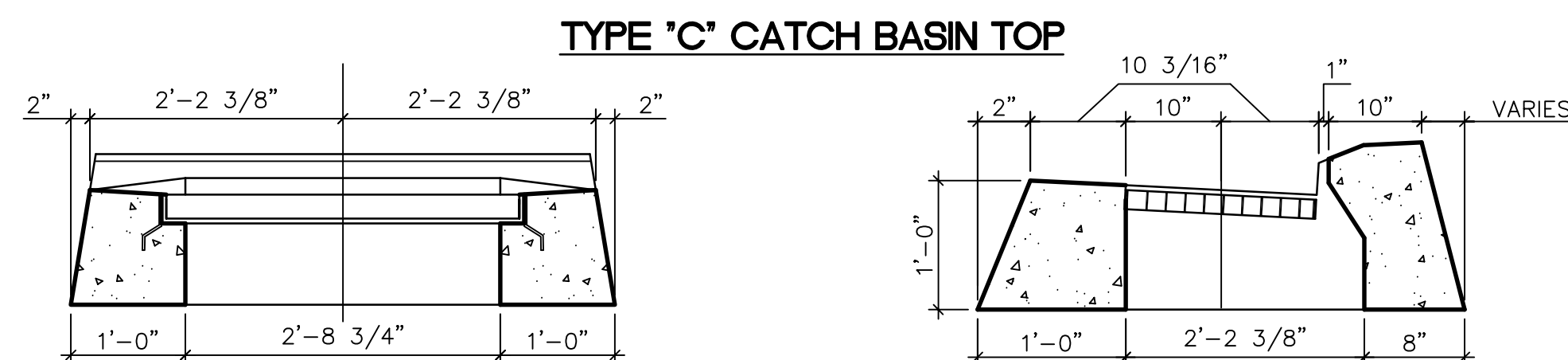
MONOLITHIC CONCRETE CURB
N.T.S.



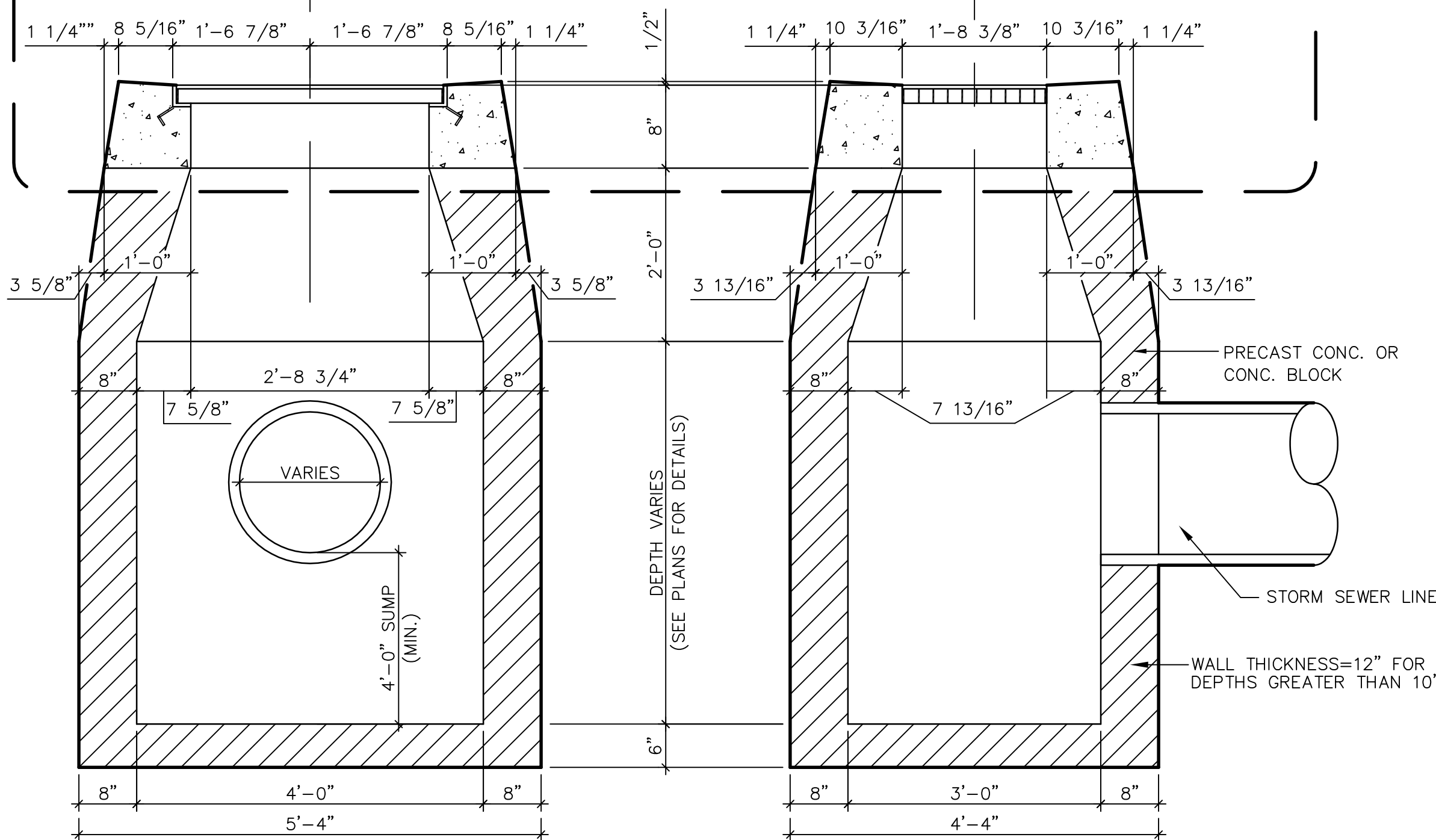
BITUMINOUS CONCRETE CURB
N.T.S.



BITUMINOUS CONCRETE PAVEMENT
N.T.S.



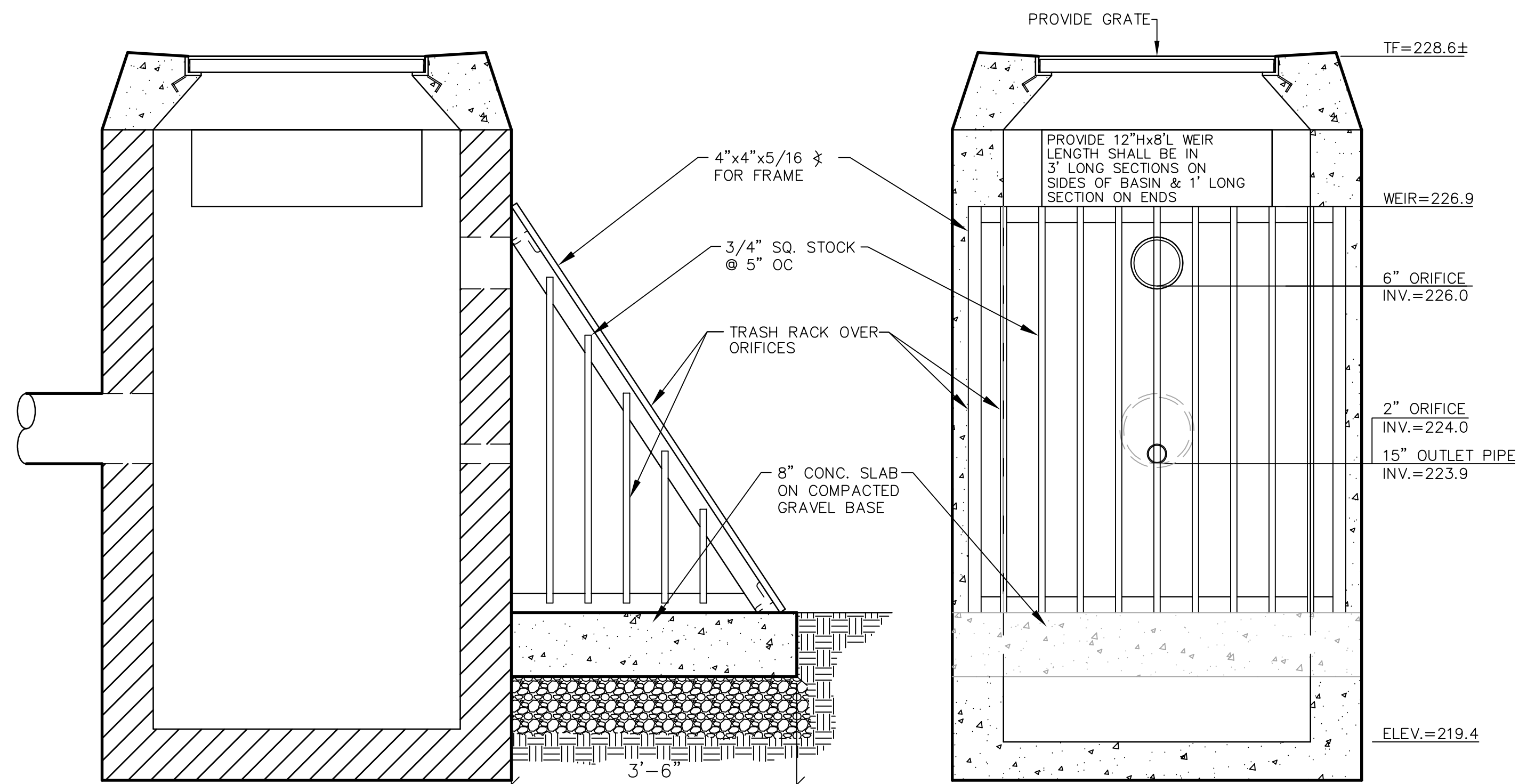
TYPE 'C-L' CATCH BASIN TOP



LONGITUDINAL SECTION

TRANSVERSE SECTION

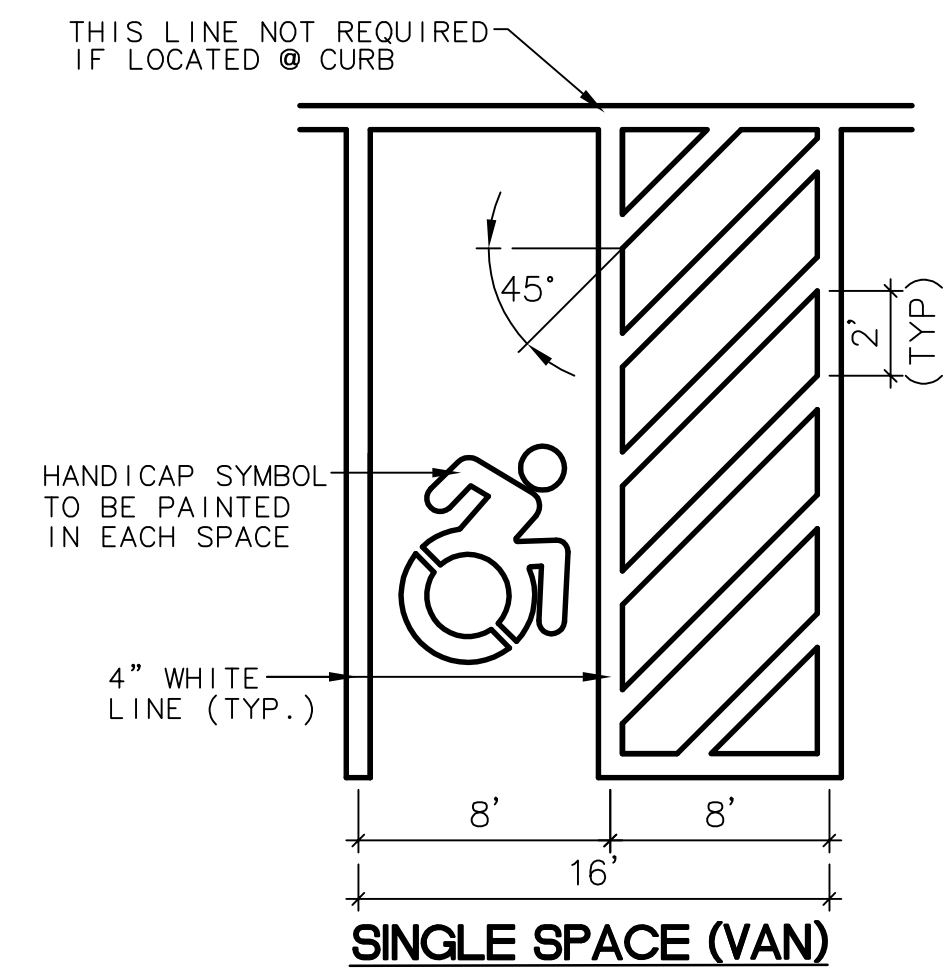
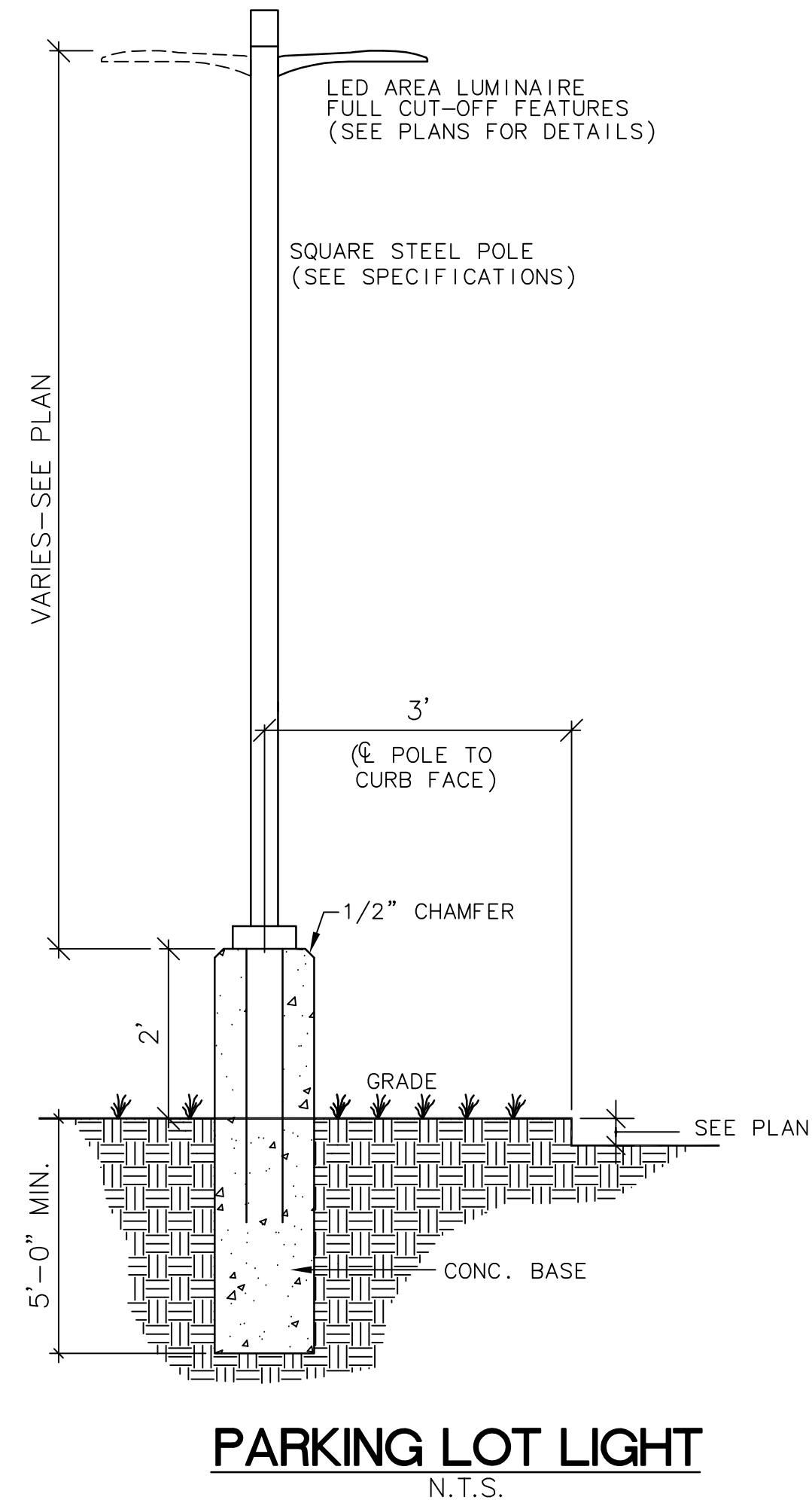
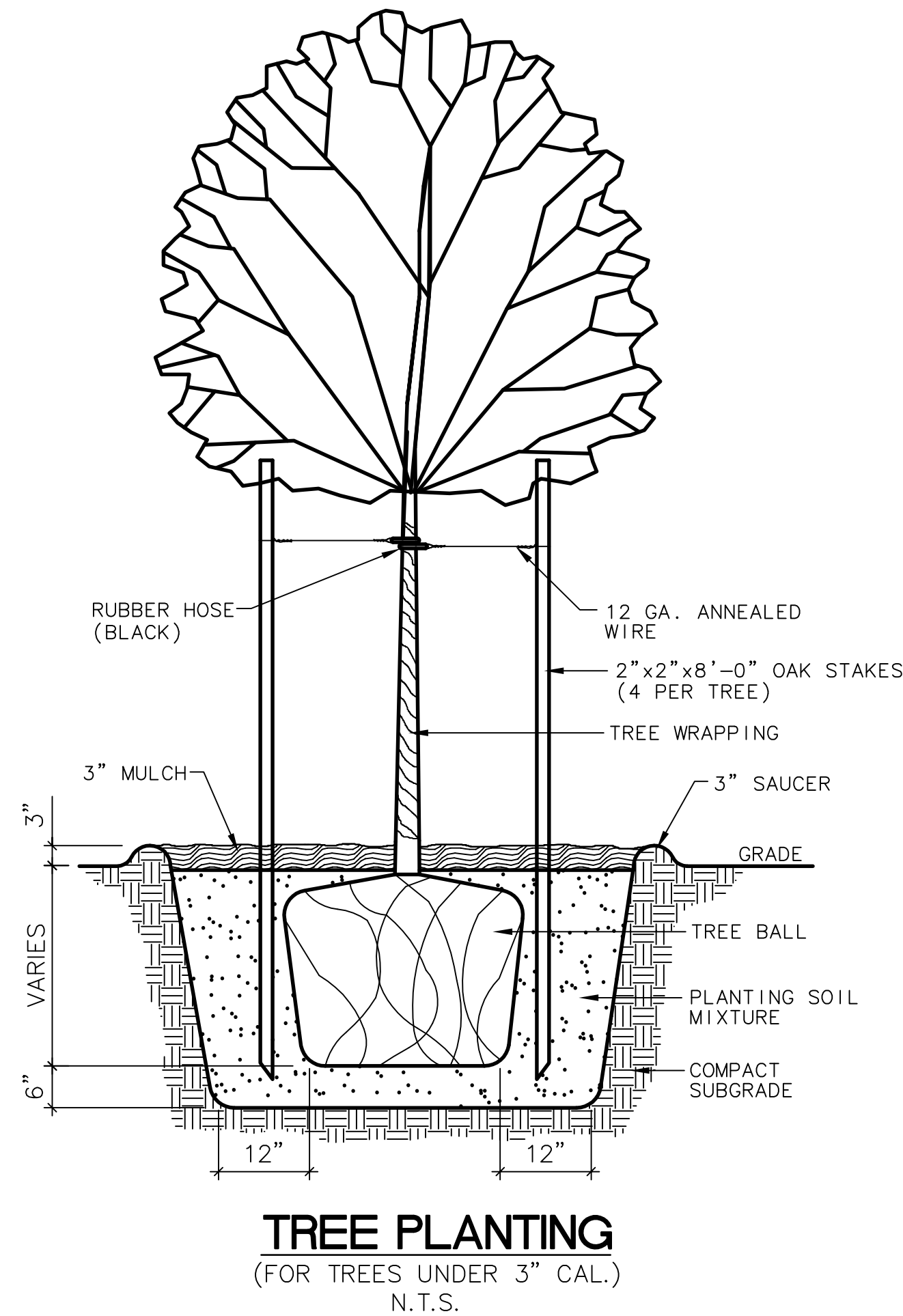
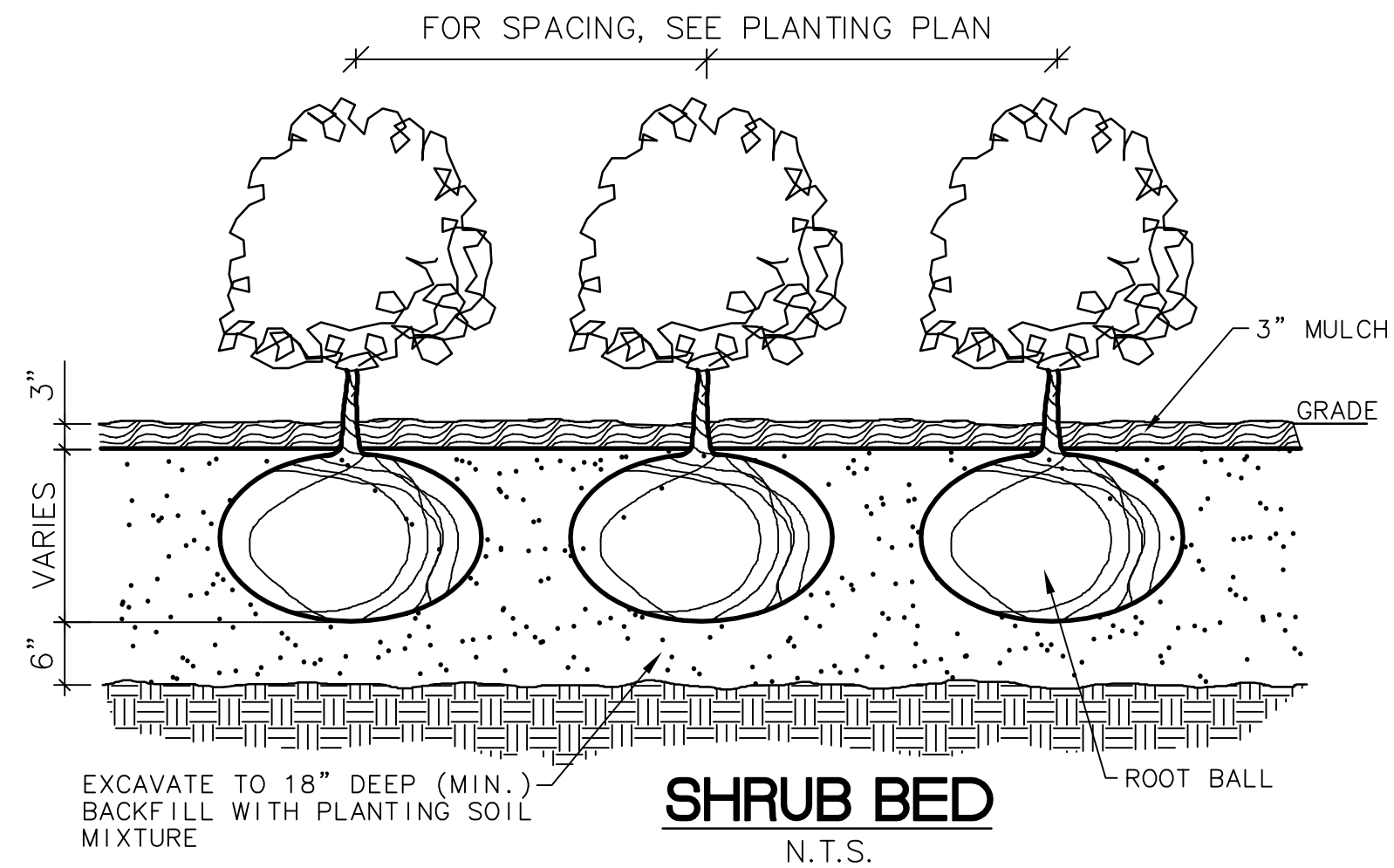
STATE OF CONN. CATCH BASIN
N.T.S.



OUTLET STRUCTURE WITH TRASH RACK
N.T.S.

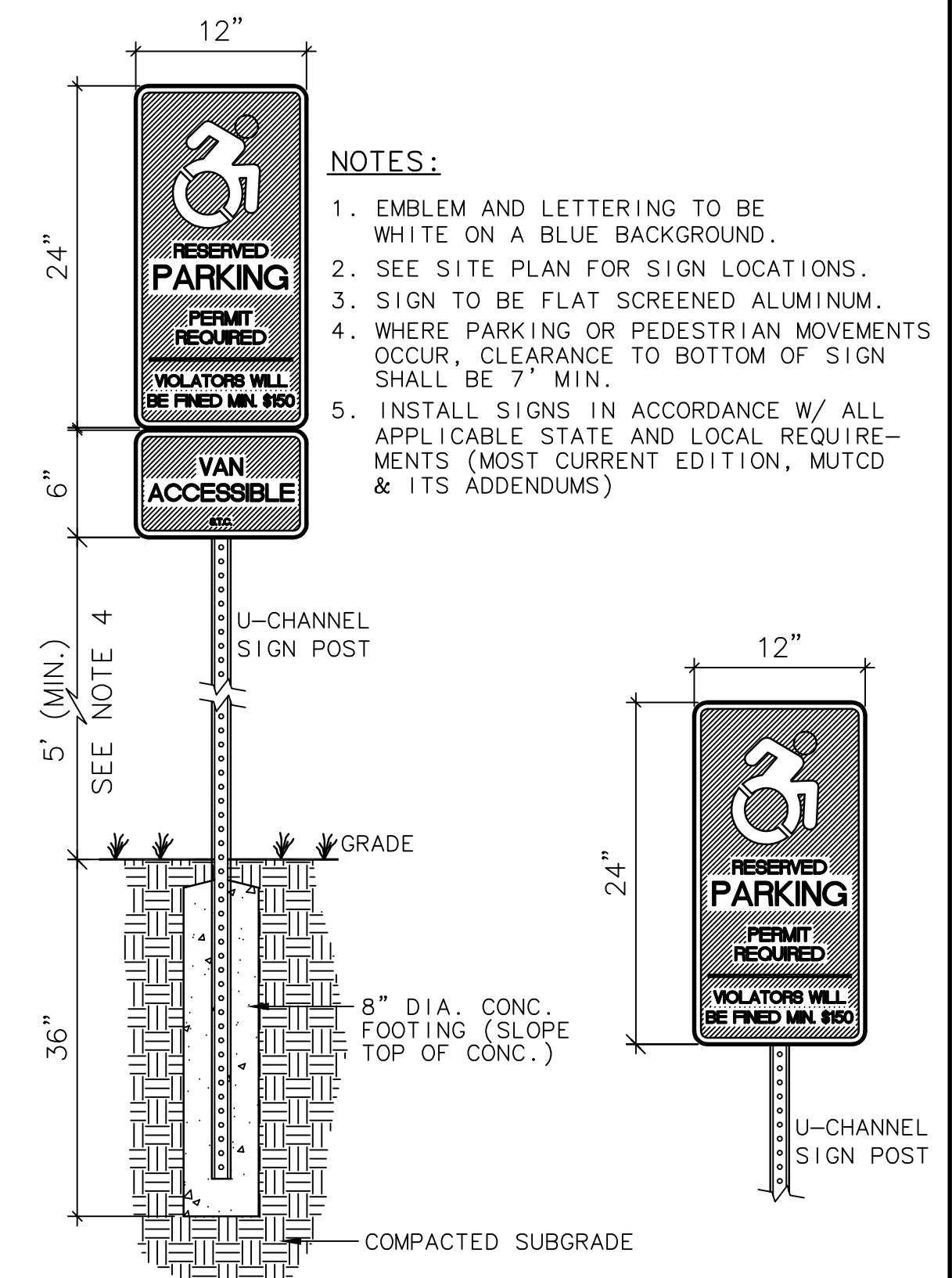
© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED, OR OTHERWISE COMMUNICATED IN ANY FORM
OR BY ANY OTHER MEANS WITHOUT THE PRIOR, WRITTEN
CONSENT OF BORGHESI BUILDING & ENGINEERING CO., INC.

\\fsclient\VP\Drawings\MISC\Valvoline Vernon\Valvoline SPD.dwg 4/28/2022 3:08:03 PM EDT



- NOTES:**
1. HATCHED ACCESS AISLES FOR HANDICAP SPACES MAY BE SHARED.
 2. HATCHED ACCESS AISLES MAY BE ON EITHER SIDE OF THE VAN OR CAR SPACES. HOWEVER, ANGLED VAN SPACES SHALL HAVE THE ACCESS AISLE ON THE PASSENGER SIDE OF THE PARKING SPACE.

HANDICAP ACCESSIBLE PARKING STALL
N.T.S.



HANDICAP PARKING SIGNS
N.T.S.

© BORGHESI BUILDING & ENGINEERING CO., INC.
COPYRIGHT, ALL RIGHTS RESERVED. NO PART OF
THIS WORK MAY BE USED, REPRODUCED, DISTRIBUTED,
DISPLAYED, OR OTHERWISE COMMUNICATED IN ANY FORM
OR BY ANY OTHER MEANS WITHOUT THE PRIOR WRITTEN
CONSENT OF BORGHESI BUILDING & ENGINEERING CO., INC.



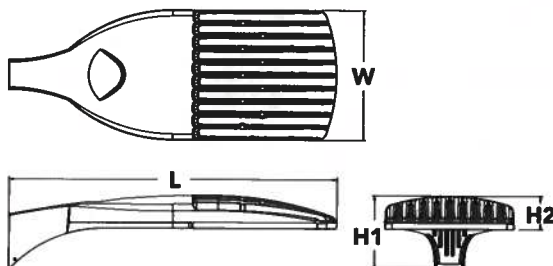
D-Series Size 1 LED Area Luminaire



Buy American

Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height H1:	7-1/2" (19.0 cm)
Height H2:	3-1/2"
Weight (max):	27 lbs (12.2 kg)



Catalog
Number

Notes

Type

Hit the tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - 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 efficacy, long-life 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 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED						
Series	LEDs	Color temperature	Distribution	Voltage	Mounting	
DSX1 LED	Forward optics P1 P4 ¹ P7 ¹ P2 P5 ¹ P8 P3 P6 ¹ P9 ¹ Rotated optics P10 ² P12 ² P11 ² P13 ^{1,2}	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium	TSVS Type V very short ³ TSS Type V short ³ TSM Type V medium ³ TSW Type V wide ³ BLC Backlight control ⁴ LCCO Left corner cutoff ⁴ RCCO Right corner cutoff ⁴	MVOLT ⁵ XVOLT (277V-480V) ^{6,7,8} 120 ⁹ 208 ⁹ 240 ⁹ 277 ⁹ 347 ⁹ 480 ⁹	Shipped included SPA Square pole mounting RPA Round pole mounting ¹⁰ WBA Wall bracket ³ SPUMBA Square pole universal mounting adaptor ¹¹ RPUMBA Round pole universal mounting adaptor ⁹ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (required)
Shipped installed NLTAIR2 nLight AIR generation 2 enabled ¹³ PIRHN Network, high/low motion/ambient sensor ¹⁴ PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁵ PER5 Five-pin receptacle only (controls ordered separate) ^{15,16} PER7 Seven-pin receptacle only (controls ordered separate) ^{15,16} DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷ DS Dual switching ^{18,19,20}	Shipped installed HS House-side shield ²³ SF Single fuse (120, 277, 347V) ⁹ DF Double fuse (208, 240, 480V) ⁹ L90 Left rotated optics ² R90 Right rotated optics ² HA 50°C ambient operations ¹ BAA Buy America(n) Act Compliant Shipped separately BS Bird spikes ²⁴ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK U	Shorting cap ²⁵
DSX1HS 30C U	House-side shield for P1, P2, P3, P4 and P5 ²⁵
DSX1HS 40C U	House-side shield for P6 and P7 ²⁵
DSX1HS 60C U	House-side shield for P8, P9, P10, P11 and P12 ²⁵
PUMBA DOBXD U ²⁶	Square and round pole universal mounting bracket (specify finish) ²⁶
KMA8 DOBXD U	Master arm mounting bracket adaptor (specify finish) ²⁶
DSX1EGS (FINISH) U	External glare shield

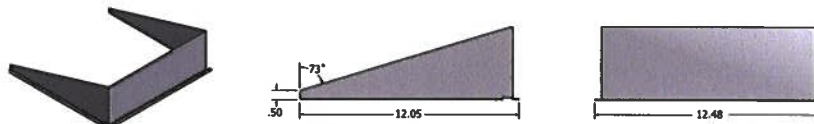
For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- HA not available with P4, P5, P6, P7, P9 and P13.
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- XVOLT only suitable for use with P3, P5, P6, P7, P9 and P13.
- XVOLT works with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing, pre-drilled poles only. 1.5 G vibration load rating per ANSI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHIN. Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting cap included.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming.
- DMG not available with PIRHIN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits with isolated neutral.
- Reference Controls Option Default settings table on page 4.
- Reference Motion Sensor table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Control Option Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

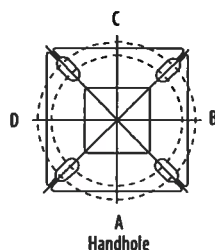
Options

EGS - External Glare Shield



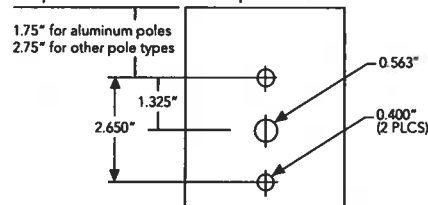
Drilling

HANDHOLE ORIENTATION



Template #8

Top of Pole



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 LED	1.013	2.025	1.945	3.038	2.850	3.749

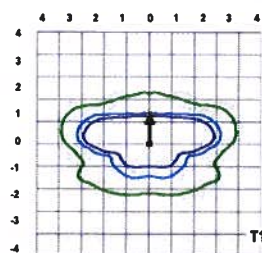
	Drilling Template	Minimum Acceptable Outside Pole Dimension					
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"	3.5"	4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

Photometric Diagrams

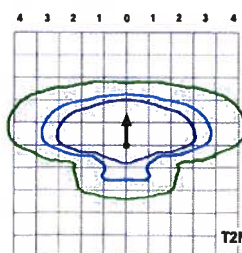
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').

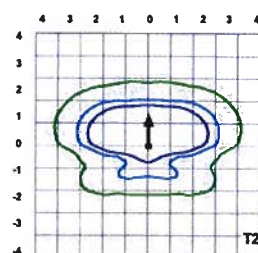
LEGEND



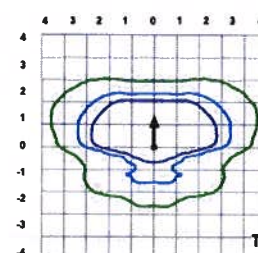
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



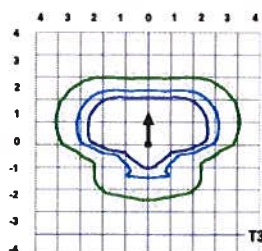
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



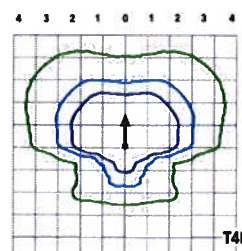
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



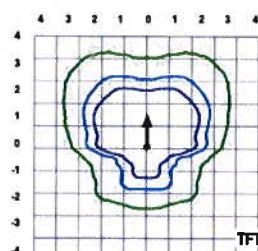
Test No. LTL23271 tested in accordance with IESNA LM-79-08.



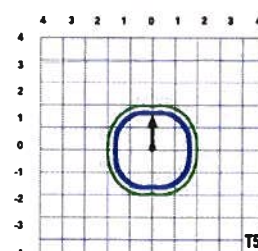
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



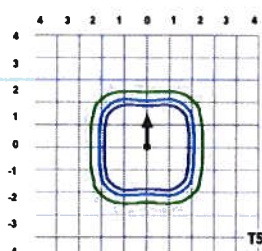
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



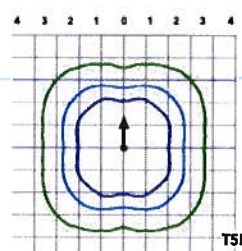
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



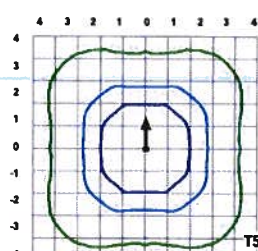
Test No. LTL23271 tested in accordance with IESNA LM-79-08.



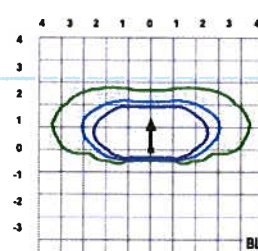
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



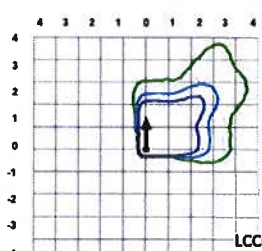
Test No. LTL23164B tested in accordance with IESNA LM-79-08.



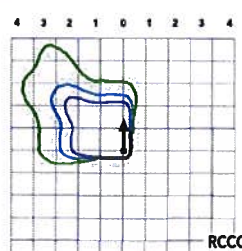
Test No. LTL23222 tested in accordance with IESNA LM-79-08.



Test No. LTL23271 tested in accordance with IESNA LM-79-08.



Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.04
5°C	1.04
10°C	1.03
15°C	1.02
20°C	1.01
25°C	1.00
30°C	0.99
35°C	0.98
40°C	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts Contact factory for performance data on any configurations not shown here.

Forward Optics																			
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
30	530	P1	54W	T1S	6,457	2	0	2	120	6,956	2	0	2	129	7,044	2	0	2	130
				T2S	6,450	2	0	2	119	6,949	2	0	2	129	7,037	2	0	2	130
				T2M	6,483	1	0	1	120	6,984	2	0	2	129	7,073	2	0	2	131
				T3S	6,279	2	0	2	116	6,764	2	0	2	125	6,850	2	0	2	127
				T3M	6,468	1	0	2	120	6,967	1	0	2	129	7,056	1	0	2	131
				T4M	6,327	1	0	2	117	6,816	1	0	2	126	6,902	1	0	2	128
				TFTM	6,464	1	0	2	120	6,963	1	0	2	129	7,051	1	0	2	131
				TSVS	6,722	2	0	0	124	7,242	3	0	0	134	7,334	3	0	0	136
				TSS	6,728	2	0	1	125	7,248	2	0	1	134	7,340	2	0	1	136
				TSM	6,711	3	0	1	124	7,229	3	0	1	134	7,321	3	0	2	136
				TSW	6,667	3	0	2	123	7,182	3	0	2	133	7,273	3	0	2	135
				BLC	5,299	1	0	1	98	5,709	1	0	2	106	5,781	1	0	2	107
				LCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				RCCO	3,943	1	0	2	73	4,248	1	0	2	79	4,302	1	0	2	80
				T1S	8,249	2	0	2	118	8,886	2	0	2	127	8,999	2	0	2	129
30	700	P2	70W	T2S	8,240	2	0	2	118	8,877	2	0	2	127	8,989	2	0	2	128
				T2M	8,283	2	0	2	118	8,923	2	0	2	127	9,036	2	0	2	129
				T3S	8,021	2	0	2	115	8,641	2	0	2	123	8,751	2	0	2	125
				T3M	8,263	2	0	2	118	8,901	2	0	2	127	9,014	2	0	2	129
				T4M	8,083	2	0	2	115	8,708	2	0	2	124	8,818	2	0	2	126
				TFTM	8,257	2	0	2	118	8,896	2	0	2	127	9,008	2	0	2	129
				TSVS	8,588	3	0	0	123	9,252	3	0	0	132	9,369	3	0	0	134
				TSS	8,595	3	0	1	123	9,259	3	0	1	132	9,376	3	0	1	134
				TSM	8,573	3	0	2	122	9,236	3	0	2	132	9,353	3	0	2	134
				TSW	8,517	3	0	2	122	9,175	4	0	2	131	9,291	4	0	2	133
				BLC	6,770	1	0	2	97	7,293	1	0	2	104	7,386	1	0	2	106
				LCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				RCCO	5,038	1	0	2	72	5,427	1	0	2	78	5,496	1	0	2	79
				T1S	11,661	2	0	2	114	12,562	3	0	3	123	12,721	3	0	3	125
				T2S	11,648	2	0	2	114	12,548	3	0	3	123	12,707	3	0	3	125
30	1050	P3	102W	T2M	11,708	2	0	2	115	12,613	2	0	2	124	12,773	2	0	2	125
				T3S	11,339	2	0	2	111	12,215	3	0	3	120	12,370	3	0	3	121
				T3M	11,680	2	0	2	115	12,582	2	0	2	123	12,742	2	0	2	125
				T4M	11,426	2	0	3	112	12,309	2	0	3	121	12,465	2	0	3	122
				TFTM	11,673	2	0	2	114	12,575	2	0	3	123	12,734	2	0	3	125
				TSVS	12,140	3	0	1	119	13,078	3	0	1	128	13,244	3	0	1	130
				TSS	12,150	3	0	1	119	13,089	3	0	1	128	13,254	3	0	1	130
				TSM	12,119	4	0	2	119	13,056	4	0	2	128	13,221	4	0	2	130
				TSW	12,040	4	0	3	118	12,970	4	0	3	127	13,134	4	0	3	129
				BLC	9,570	1	0	2	94	10,310	1	0	2	101	10,440	1	0	2	102
				LCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				RCCO	7,121	1	0	3	70	7,671	1	0	3	75	7,768	1	0	3	76
				T1S	13,435	3	0	3	107	14,473	3	0	3	116	14,657	3	0	3	117
				T2S	13,421	3	0	3	107	14,458	3	0	3	116	14,641	3	0	3	117
30	1250	P4	125W	T2M	13,490	2	0	2	108	14,532	3	0	3	116	14,716	3	0	3	118
				T3S	13,064	3	0	3	105	14,074	3	0	3	113	14,252	3	0	3	114
				T3M	13,457	2	0	2	108	14,497	2	0	2	116	14,681	2	0	2	117
				T4M	13,165	2	0	3	105	14,182	2	0	3	113	14,362	2	0	3	115
				TFTM	13,449	2	0	3	108	14,488	2	0	3	116	14,672	2	0	3	117
				TSVS	13,987	4	0	1	112	15,068	4	0	1	121	15,259	4	0	1	122
				TSS	13,999	3	0	1	112	15,080	3	0	1	121	15,271	3	0	1	122
				TSM	13,963	4	0	2	112	15,042	4	0	2	120	15,233	4	0	2	122
				TSW	13,872	4	0	3	111	14,944	4	0	3	120	15,133	4	0	3	121
				BLC	11,027	1	0	2	88	11,879	1	0	2	95	12,029	1	0	2	96
				LCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				RCCO	8,205	1	0	3	66	8,839	1	0	3	71	8,951	1	0	3	72
				T1S	14,679	3	0	3	106	15,814	3	0	3	115	16,014	3	0	3	116
				T2S	14,664	3	0	3	106	15,797	3	0	3	114	15,997	3	0	3	116
30	1400	P5	138W	T2M	14,739	3	0	3	107	15,878	3	0	3	115	16,079	3	0	3	117
				T3S	14,274	3	0	3	103	15,377	3	0	3	111	15,572	3	0	3	113
				T3M	14,704	2	0	3	107	15,840	3	0	3	115	16,040	3	0	3	116
				T4M	14,384	2	0	3	104	15,496	3	0	3	112	15,692	3	0	3	114
				TFTM	14,695	2	0	3	106	15,830	3	0	3	115	16,030	3	0	3	116
				TSVS	15,283	4	0	1	111	16,464	4	0	1	119	16,672	4	0	1	121
				TSS	15,295	3	0	1	111	16,477	4	0	1	119	16,686	4	0	1	121
				TSM	15,257	4	0	2	111	16,435	4	0	2	119	16,644	4	0	2	121
				TSW	15,157	4	0	3	110	16,328	4	0	3	118	16,534	4	0	3	120
				BLC	12,048	1	0	2	87	12,979	1	0	2	94	13,143	1	0	2	95
				LCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71
				RCCO	8,965	1	0	3	65	9,657	1	0	3	70	9,780	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72
				T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115
40	1400	P7	183W	T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114
				T2M	19,305	3	0	3	105	20,797	3	0	3	114	21,060	3	0	3	115
				T3S	18,696	3	0	3	102	20,141	3	0	3	110	20,396	3	0	4	111
				T3M	19,258	3	0	3	105	20,746	3	0	3	113	21,009	3	0	3	115
				T4M	18,840	3	0	4	103	20,296	3	0	4	111	20,553	3	0	4	112
				TFTM	19,246	3	0	4	105	20,734	3	0	4	113	20,996	3	0	4	115
				TSVS	20,017	4	0	1	109	21,564	4	0	1	118	21,837	4	0	1	119
				TSS	20,033	4	0	2	109	21,581	4	0	2	118	21,854	4	0	2	119
				TSM	19,983	4	0	2	109	21,527	5	0	3	118	21,799	5	0	3	119
				TSW	19,852	5	0	3	108	21,386	5	0	3	117	21,656	5	0	3	118
				BLC	15,780	2	0	3	86	16,999	2	0	3	93	17,214	2	0	3	94
				LCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				RCCO	11,742	2	0	3	64	12,649	2	0	3	69	12,809	2	0	3	70
				T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119
				T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118
60	1050	P8	207W	T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116
				T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116
				T2M	25,680	3	0	3	107	27,664	3	0	3	115	28,014	3	0	3	116
60	1250	P9	241W	T3S	24,870	3	0	4	103	26,791	3	0	4	111	27,130	3	0	4	113
				T3M	25,617	3	0	4	106	27,597	3	0	4	115	27,946	3	0	4	116
				T4M	25,061	3	0	4	104	26,997	3	0	4	112	27,339	3	0	4	113
				TFTM	25,602	3	0	4	106	27,580	3	0	4	114	27,929	3	0	4	116
				TSVS	26,626	5	0	1	110	28,684	5	0	1	119	29,047	5	0	1	121
				TSS	26,648	4	0	2	111	28,707	5	0	2	119	29,070	5	0	2	121
				TSM	26,581	5	0	3	110	28,635	5	0	3	119	28,997	5	0	3	120
				TSW	26,406	5	0	4	110	28,447	5	0	4	118	28,807	5	0	4	120
				BLC	20,990	2	0	3	87	22,612	2	0	3	94	22,898	2	0	3	95
				LCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71
				RCCO	15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80
				T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132
60	700	P11	137W	T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135
				TSS	16,832	4	0	1	123	18,133	4	0	2	132	18,362	4	0	2	134
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79
				T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120
60	1050	P12	207W	T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72
				T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121
60	1250	P13	231W	T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found here.

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). NEMA photocontrol receptacle are also available.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.





D-Series Size 1 LED Wall Luminaire



Buy American

d[®]series

Specifications Luminaire

Width: 13-3/4"
(34.9 cm) **Weight:** 12 lbs
(5.4 kg)

Depth: 10"
(25.4 cm)

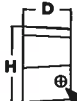
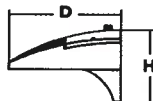
Height: 6-3/8"
(16.2 cm)

Back Box (BBW, E20WC)

Width: 13-3/4"
(34.9 cm) **BBW Weight:** 5 lbs
(2.3 kg)

Depth: 4"
(10.2 cm) **E20WC Weight:** 10 lbs
(4.5 kg)

Height: 6-3/8"
(16.2 cm)



For 3/4" NPT side-entry
conduit (BBW only)

Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) ¹	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) ¹	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT ² 120 ³ 208 ³ 240 ³ 277 ³ 347 ^{3,4} 480 ^{3,4}	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ⁵	Shipped installed PE Photoelectric cell, button type ⁶ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht ¹² PIRH 180° motion/ambient light sensor, 15-30' mtg ht ¹² PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ¹² PIR1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ¹² E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant ^{4,9}

Other Options	Finish (required)
Shipped installed SF Single fuse (120, 277 or 347V) ^{3,10} DF Double fuse (208, 240 or 480V) ^{3,10} HS House-side shield ¹¹ SPD Separate surge protection ¹²	Shipped separately ¹¹ BSW Bird-deterrent spikes VG Vandal guard DDL Diffused drop lens DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Accessories

Ordered and shipped separately

DSXWHS U House-side shield (one per light engine)
DSXWBSW U Bird-deterrent spikes
DSXW1VG U Vandal guard accessory

NOTES

- 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3.
- Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- Not available with SPD.
- Not available with E20WC.
- Also available as a separate accessory; see Accessories information.
- Not available with E20WC.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70CRI)					40K (4000 K, 70CRI)					50K (5000 K, 70CRI)					AMBPC (Amber Phosphor converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	350mA	13W	T2S	1,415	0	0	1	109	1,520	0	0	1	117	1,530	0	0	1	118	894	0	0	1	69
			T2M	1,349	0	0	1	104	1,448	0	0	1	111	1,458	0	0	1	112	852	0	0	1	66
			T3S	1,399	0	0	1	108	1,503	0	0	1	116	1,512	0	0	1	116	884	0	0	1	68
			T3M	1,385	0	0	1	107	1,488	0	0	1	114	1,497	0	0	1	115	876	0	0	1	67
			T4M	1,357	0	0	1	104	1,458	0	0	1	112	1,467	0	0	1	113	858	0	0	1	66
			TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69
	530 mA	19W	T2S	2,053	1	0	1	108	2,205	1	0	1	116	2,220	1	0	1	117	1,264	0	0	1	67
			T2M	1,957	1	0	1	103	2,102	1	0	1	111	2,115	1	0	1	111	1,205	0	0	1	63
			T3S	2,031	1	0	1	107	2,181	1	0	1	115	2,194	1	0	1	115	1,250	0	0	1	66
			T3M	2,010	1	0	1	106	2,159	1	0	1	114	2,172	1	0	1	114	1,237	0	0	1	65
			T4M	1,970	1	0	1	104	2,115	1	0	1	111	2,129	1	0	1	112	1,212	0	0	1	64
			TFTM	2,047	0	0	1	108	2,198	1	0	1	116	2,212	1	0	1	116	1,260	0	0	1	66
	700 mA	26W	T2S	2,623	1	0	1	101	2,816	1	0	1	108	2,834	1	0	1	109	1,544	0	0	1	59
			T2M	2,499	1	0	1	96	2,684	1	0	1	103	2,701	1	0	1	104	1,472	0	0	1	57
			T3S	2,593	1	0	1	100	2,785	1	0	1	107	2,802	1	0	1	108	1,527	0	0	1	59
			T3M	2,567	1	0	1	99	2,757	1	0	1	106	2,774	1	0	1	107	1,512	0	0	1	58
			T4M	2,515	1	0	1	97	2,701	1	0	1	104	2,718	1	0	1	105	1,481	0	0	1	57
			TFTM	2,614	1	0	1	101	2,808	1	0	1	108	2,825	1	0	1	109	1,539	0	0	1	59
	1000 mA	39W	T2S	3,685	1	0	1	94	3,957	1	0	1	101	3,982	1	0	1	102	2,235	1	0	1	57
			T2M	3,512	1	0	1	90	3,771	1	0	1	97	3,794	1	0	1	97	2,130	1	0	1	55
			T3S	3,644	1	0	1	93	3,913	1	0	1	100	3,938	1	0	1	101	2,210	1	0	1	57
			T3M	3,607	1	0	1	92	3,873	1	0	1	99	3,898	1	0	1	100	2,187	1	0	1	56
			T4M	3,534	1	0	2	91	3,796	1	0	2	97	3,819	1	0	2	98	2,143	1	0	1	55
			TFTM	3,673	1	0	1	94	3,945	1	0	1	101	3,969	1	0	1	102	2,228	1	0	1	57
20C (20 LEDs)	350mA	23W	T2S	2,820	1	0	1	123	3,028	1	0	1	132	3,047	1	0	1	132	1,777	1	0	1	77
			T2M	2,688	1	0	1	117	2,886	1	0	1	125	2,904	1	0	1	126	1,693	1	0	1	74
			T3S	2,789	1	0	1	121	2,994	1	0	1	130	3,014	1	0	1	131	1,757	0	0	1	76
			T3M	2,760	1	0	1	120	2,965	1	0	1	129	2,983	1	0	1	130	1,739	1	0	1	76
			T4M	2,704	1	0	1	118	2,905	1	0	1	126	2,922	1	0	1	127	1,704	1	0	1	74
			TFTM	2,811	1	0	1	122	3,019	1	0	1	131	3,038	1	0	1	132	1,771	0	0	1	77
	530 mA	35W	T2S	4,079	1	0	1	117	4,380	1	0	1	125	4,407	1	0	1	126	2,504	1	0	1	72
			T2M	3,887	1	0	1	111	4,174	1	0	1	119	4,201	1	0	1	120	2,387	1	0	1	68
			T3S	4,033	1	0	1	115	4,331	1	0	1	124	4,359	1	0	1	125	2,477	1	0	1	71
			T3M	3,993	1	0	2	114	4,288	1	0	2	123	4,315	1	0	2	123	2,451	1	0	1	70
			T4M	3,912	1	0	2	112	4,201	1	0	2	120	4,227	1	0	2	121	2,402	1	0	1	69
			TFTM	4,066	1	0	2	116	4,366	1	0	2	125	4,394	1	0	2	126	2,496	1	0	1	71
	700 mA	46W	T2S	5,188	1	0	1	113	5,572	1	0	1	121	5,607	1	0	1	122	3,065	1	0	1	67
			T2M	4,945	1	0	2	108	5,309	1	0	2	115	5,343	1	0	2	116	2,921	1	0	1	64
			T3S	5,131	1	0	2	112	5,510	1	0	2	120	5,544	1	0	2	121	3,031	1	0	1	66
			T3M	5,078	1	0	2	110	5,454	1	0	2	119	5,487	1	0	2	119	3,000	1	0	1	65
			T4M	4,975	1	0	2	108	5,343	1	0	2	116	5,376	1	0	2	117	2,939	1	0	1	64
			TFTM	5,172	1	0	2	112	5,554	1	0	2	121	5,589	1	0	2	122	3,055	1	0	1	66
	1000 mA	73W	T2S	7,204	1	0	2	99	7,736	2	0	2	106	7,784	2	0	2	107	4,429	1	0	1	61
			T2M	6,865	1	0	2	94	7,373	2	0	2	101	7,419	2	0	2	102	4,221	1	0	1	58
			T3S	7,125	1	0	2	98	7,651	1	0	2	105	7,698	1	0	2	105	4,380	1	0	1	60
			T3M	7,052	1	0	2	97	7,573	2	0	2	104	7,620	2	0	2	104	4,335	1	0	2	59
			T4M	6,909	1	0	2	95	7,420	1	0	2	102	7,466	1	0	2	102	4,248	1	0	2	58
			TFTM	7,182	1	0	2	98	7,712	1	0	2	106	7,761	1	0	2	106	4,415	1	0	2	60

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.02
10°C	1.01
20°C	1.00
25°C	1.00
30°C	1.00
40°C	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

Motion Sensor Default Settings

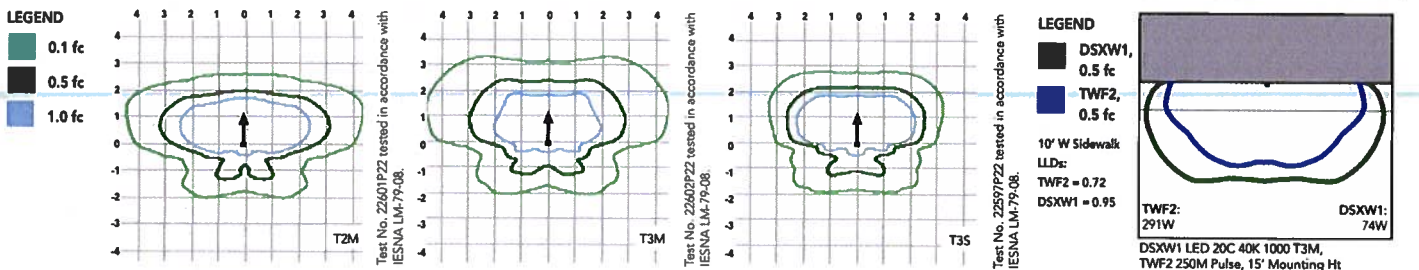
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

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.

BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
© 2013-2022 Acuity Brands Lighting, Inc. All rights reserved.

DSXW1-LED
Rev. 3/07/22

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION — **Pole Shaft:** The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, .1196"), or 50 KSI (7-gauge, .1793"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

Pole Top: A flush non-metallic black top cap is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with PT option.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

Base Cover: A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

Anchor Base/ Bolts: Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

HARDWARE — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH — Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

INSTALLATION — Do not erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type



Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL



SSS Square Straight Steel Poles

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: SSS 20 5C DM19 DDB

SSS	Nominal fixture mounting height	Nominal shaft base size/wall thickness ²	Mounting ³	Options	Finish ¹¹
SSS ¹	10'-39' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.) See technical information table for complete ordering information.)	4C 4" 11g (.1196") 4G 4" 7g (.1793") 5C 5" 11g (.1196") 5G 5" 7g (.1793") 6G 6" 7g (.1793") See technical information table for complete ordering information.)	<u>Tenon mounting</u> PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <u>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting</u> DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° <u>CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting</u> DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° <u>RAD drill mounting</u> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM39RAD 3 at 90° DM49RAD 4 at 90° <u>ESX Drill mounting</u> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	<u>AERIS™ Suspend drill mounting</u> ^{4,5} DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° <u>OMERO™ Suspend drill mounting</u> ^{4,5} DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90° Shipped installed VD Vibration damper HAXy Horizontal arm bracket (1 fixture) ^{6,7} FDLxy Festoon outlet less electrical ⁶ CPL12/xy 1/2" coupling ⁶ CPL34/xy 3/4" coupling ⁶ CPL1/xy 1" coupling ⁶ NPL12/xy 1/2" threaded nipple ⁶ NPL34/xy 3/4" threaded nipple ⁶ NPL1/xy 1" threaded nipple ⁶ EHHxy Extra handhole ^{6,8} NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) IC Interior coating ⁹ L/AB Less anchor bolts (Include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant ¹⁰	<u>Standard colors</u> DDBXD Dark bronze DWHXD White DBLXD Black DMBXD Medium bronze DNAXD Natural aluminum <u>Classic colors</u> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue <u>Architectural Colors and Special Finishes</u> Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:

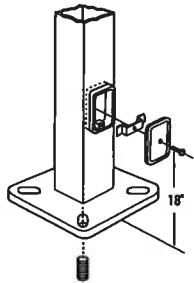
- Handhole covers (HHC), full base covers (FBC) and top caps (TC) shipped separately. No need to call out in nomenclature. For additional parts please order as replacements.
- Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793".
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".
Example: 5ft = 5 and 20ft 3in = 20-3
For "y": Specify orientation from handhole (A,B,C,D)
Refer to the Handhole Orientation diagram below.
Example: 1/2" coupling at 5' 8"; orientation C = CPL12/5-8C
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAXxy. Example: HA20BD.
- Combination of tenon-top and drill mount includes extra handhole. EHH does not include cover, order replacement part if needed.
- Provides enhanced corrosion resistance.
- Use when mill certifications are required.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

SSS Square Straight Steel Poles

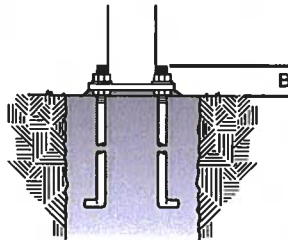
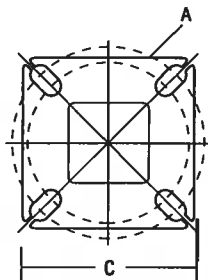
TECHNICAL INFORMATION — EPA (ft2) with 1.3 gust													
Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	EPA (ft ²) with 1.3 gust						Bolt circle (in)	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)
					80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight			
SSS 10 4C	10	4.0 x 10.0	0.1196	11	30.6	765	23.8	595	18.9	473	8-9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.1196	11	24.4	610	18.8	470	14.8	370	8-9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.1196	11	19.9	498	15.1	378	11.7	293	8-9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.1196	11	15.9	398	11.8	295	8.9	223	8-9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.1196	11	12.6	315	9.2	230	6.7	168	8-9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.1196	11	9.6	240	6.7	167	4.5	150	8-9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.1793	7	14	350	11	275	8	200	8-9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	11	17.7	443	12.7	343	9.4	235	10-12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.1793	7	28.1	703	21.4	535	16.2	405	10-12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.1196	11	4.8	150	2.6	100	1	50	8-9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	7	10.8	270	7.7	188	5.4	135	8-9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.1196	11	9.8	245	6.3	157	3.7	150	10-12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.1793	7	18.5	463	13.3	333	9.5	238	10-12	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	8-9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50	—	—	10-12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	7	10.7	267	6.7	167	3.9	100	10-12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.1793	7	19	475	13.2	330	9	225	11-13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100	—	—	10-12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	11-13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75	—	—	11-13	1 x 36 x 4	605

* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add .6 to the pole height. Ex: 20-6 equals 20ft 6in.

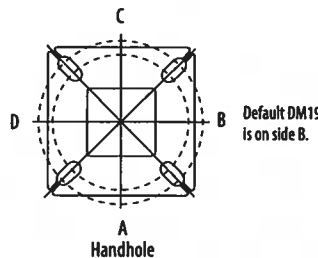
BASE DETAIL



POLE DATA								
Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Base plate thickness	Template description	Anchor bolt description	Anchor bolt and template number	Anchor bolt description
4"C	8" - 9"	3.25" - 3.75"	8" - 8.25"	0.75"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C	3/4"x18"x3"
4"G	8" - 9"	3.38" - 3.75"	8" - 8.25"	0.875"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G	3/4"x30"x3"
5"	10" - 12"	3.5" - 4"	11"	1"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5	1"x36"x4"
6"	11" - 13"	4" - 4.50"	12.5"	1"	ABTEMPLATE PJ50011	AB36-0	N/A	1"x36"x4"



HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.