

TOWN OF WINDSOR
P. O. Box 307
Windsor, Virginia 23487

Phone 757-242-4288 Fax 757-242-9039 E-Mail windsor@windsor-va.gov

PLANNING COMMISSION MEETING AGENDA
August 28, 2019
7:00 p.m.

1. Call to Order
 - a) Welcome
 - b) Roll Call
2. Public Comments
3. Approval of the Minutes of the July 24, 2019 Planning Commission Meeting (1)
4. Public Hearing
None
5. Update on Town Vision Management Team
6. O'Reilly Auto Parts Application (2)
7. Town Attorney's Report
8. Economic Development Authority (EDA)
9. Old or Unfinished Business
10. New Business
11. Next Regular Meeting - September 25, 2019
12. Motion to Adjourn

MINUTES OF THE PLANNING COMMISSION – WINDSOR, VIRGINIA

The Planning Commission met on Wednesday, July 24, 2019 at 7:00 p.m. in the Town of Windsor Council Chamber. Chairman Marshall called the meeting to order and welcomed all who were present. Terry Whitehead, Town Clerk, recorded the minutes. Ben Sullivan, Planning & Zoning Administrator, participated via telephone. Fred Taylor, Town Attorney, was present. Mrs. Whitehead called the roll.

Planning Commission members present: Leonard L. Marshall, Chairman
George Stubbs, Vice Chairman
Devon Hewitt
Edward Lynch
Dale Scott
Jesse Taylor - absent
Larissa Williams

PUBLIC COMMENTS

None

MINUTES

Chairman Marshall asked if there were any amendments to the minutes of the June 26, 2019 regular Planning Commission meeting. Commissioner Scott noted a correction on page 2 under Economic Development changing "Holiday convenience store" to "Windsor Food and Gas."

Vice Chairman Stubbs made a motion to approve the minutes with the aforementioned correction. Commissioner Scott seconded the motion, and the Commission unanimously passed the motion as recorded on the attached chart as motion #1.

INTRODUCTION OF THE MANAGEMENT TEAM FOR THE PLANNING GRANT PROJECT

Mr. Sullivan reported that a Management Team has been formed to oversee the Planning Grant meetings and to assure that goals are met throughout the process. He explained that Ramona Chapman, Capacity Development Specialist for the Planning Grant project, said the Management Team should consist of community members and residents of Windsor. He said Ms. Chapman suggested that students, teachers, business leaders and religious leaders be a part of the team. Mr. Sullivan reported that the first Management Team meeting will be held on July 29, 2019 at 6:00 p.m. at the Town Hall.

Chairman Marshall stated that several members of the Management Team were present, and he asked if they would introduce themselves to the Planning Commission.

The following members of the Management Team were present and introduced themselves: Larissa Williams representing the Planning Commission, Pastor Hunter representing Community Harvest Outreach, Patty Flemming representing the citizens, Karita Suiter representing business leaders, Stephen Branch representing Windsor High School, and Basalisa Andujar representing Windsor High School.

Members not present were Walter Bernacki representing Town Council, Cassandra Presson representing teachers, mothers, and citizens, and Samantha Hollis representing Windsor High School.

Chairman Marshall thanked the Management Team for volunteering their time and efforts to work with Mr. Sullivan on the Planning Grant project.

TOWN ATTORNEY'S REPORT

None

ECONOMIC DEVELOPMENT AUTHORITY - EDA

Commissioner Scott reported that the EDA is moving forward with marketing the two parcels located on the west side of Town that were discussed at the last meeting. He said "For Sale" signs should be on these two parcels within the next two weeks with the goal of attracting new business interest for the Town of Windsor.

OTHER REPORTS

None

OLD OR UNFINISHED BUSINESS

None

NEW BUSINESS

None

ADJOURNMENT

Chairman Marshall stated that the next meeting is scheduled for August 28, 2019.

There being no further business, Commissioner Stubbs made the motion to adjourn. Commissioner Williams seconded the motion, and the Commission unanimously approved the motion as recorded on the attached chart as motion #2.

The meeting adjourned at 7:25 p.m.

Leonard L. Marshall, Chairman

Terry Whitehead, Town Clerk

TOWN OF WINDSOR
RECORD OF
PLANNING COMMISSION VOTES

Commission Meeting Date July 24, 2019

Motion #	G. Stubbs	E. Lynch	L. Marshall	L. Williams	D. Hewitt	D. Scott	J. Taylor
1	y	y	y	y	y	y	absent
2	y	y	y	y	y	y	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							

Jerry Whitehead, Clerk

Staff Summary

August 22, 2019

Applicant/Owner: Belterra Partners
57 E Windsor Blvd
Windsor, VA 23487

Property Location: Windsor Blvd. Parcel west of Windsor Commons

Tax Map Number(s): 54-01-056E

Application: To comply with the Commercial Corridor District overlay, the applicant must either place a vegetation buffer between the store and Windsor Blvd, or have a decorative wall made of brick or other material approved by Planning Commission.

Statistical Data:

- Property size: 1.4020
- Current Zoning: B-1
- Existing Land Use: Vacant
- Proposed Use: B-1
- Surrounding Land Uses: B-1, Vacant, and R-1.
- Comprehensive Plan: B-1

Project Overview

Belterra Partners is looking to place an O'Reilly Auto Parts on the empty lot next to the Windsor Commons shopping center. The new location will connect to existing roads in the shopping center and will have access to Route 460. Section 160-66 sets several requirements that new development along Route 460 must follow. Section 160-66(E)5 requires that a 10ft. vegetation buffer be placed on all sides of the property with the exception of streets and roads, entrances and necessary public utilities. The front side of the property may instead have a decorative wall in lieu of a vegetation buffer at the discretion of the Planning Commission. The default decorative wall is a brick wall, but the Commission may allow other materials.

Belterra Partners is asking to use a material called Nichiha. Nichiha is a panel that gives a wall the appearance of being constructed out of another material. The applicant wishes to use this material to reduce cost of construction and ensure that it does not exceed projected sales volume ratio for the area.

Staff Opinion

Section 160-66(6)5 gives the Planning Commission authority to allow for alternative materials when using the decorative wall option. Staff sees no drawback for exercising this option.



August 21, 2019

Scott Smith
Belterra Partners
728 Shades Creek Parkway, Suite 130
Birmingham, Alabama 35213

Mr. Benjamin Sullivan
Planning and Zoning Administrator
Town of Windsor
8 East Windsor Boulevard
Windsor, VA 23487

RE: Petition to use Nichiha façade material on a proposed O'Reilly Auto Parts

Dear Mr. Sullivan,

Please accept this request to use the façade material Nichiha on the proposed O'Reilly Auto Parts located on Lot – B3 in First Dominion Land, Inc. fronting Windsor Boulevard / U.S. Route 460.

The purpose of the request is to have an overall development/construction cost that does not exceed a projected sales volume ratio for this area, which is limited due to the size of the population.

We are excited about working with the Town in finding a way to get this store open in this market.

We also are looking for any other ways to reduce cost or tap in to Town incentives that would help.

Thank you so much for the help and consideration.

Sincerely,

Scott Smith

Attachments: Picture of O'Reilly with Nichiha, Nichiha Spec Sheets, Plat

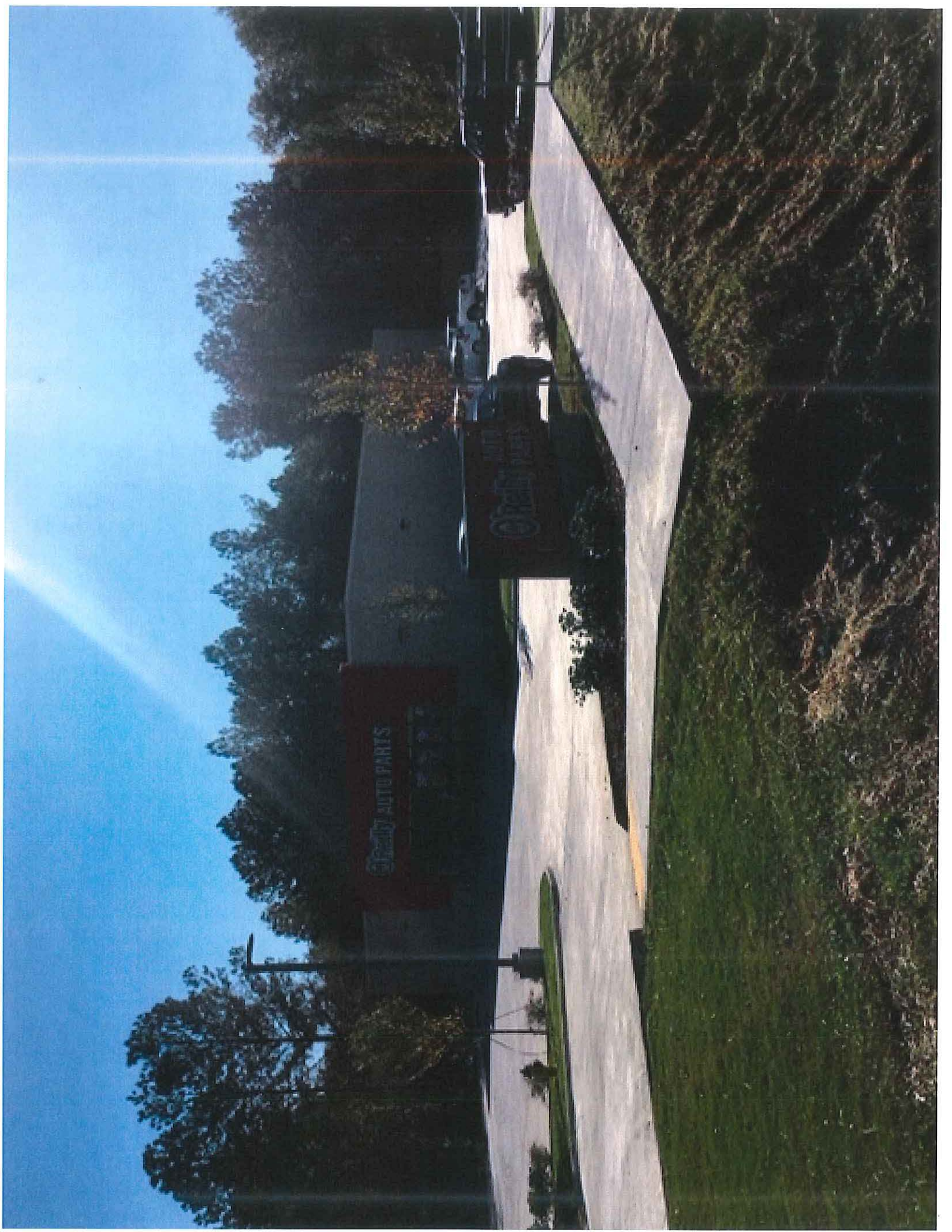


O'Reilly AUTO PARTS



O'Reilly AUTO PARTS

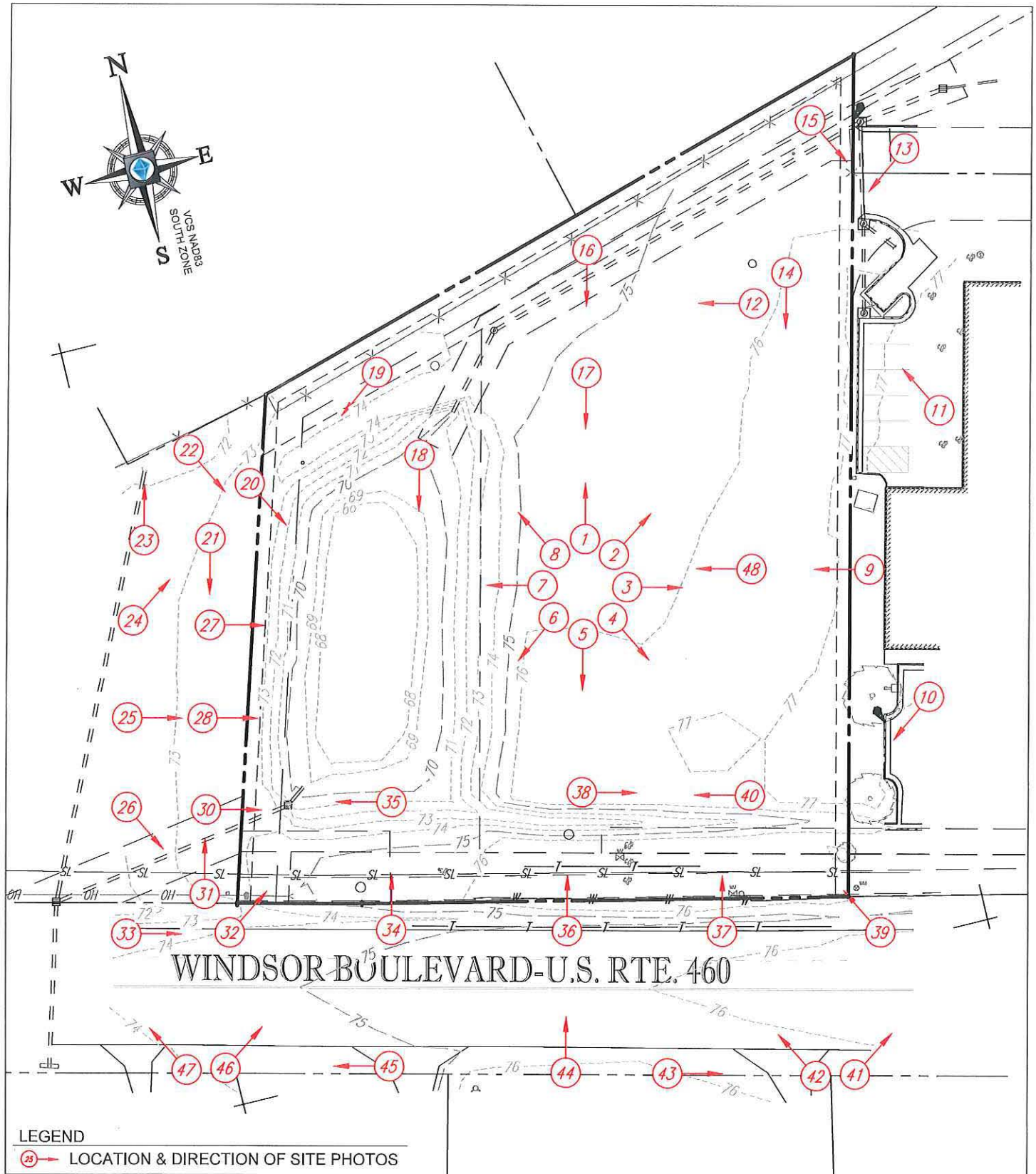
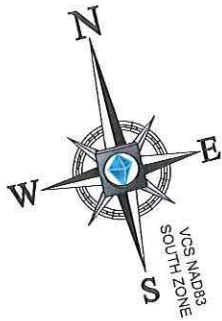
24hr
15-
10-
40











WINDSOR BOULEVARD-U.S. RTE. 460

LEGEND

25 → LOCATION & DIRECTION OF SITE PHOTOS



BOHLER[™]
ENGINEERING

22636 DAVIS DRIVE, SUITE 250
STERLING, VIRGINIA 20164
703.709.9500 - 703.709.9501 FAX

www.bohlerengineering.com



SITE PHOTOS

WINDSOR BOULEVARD-U.S. RTE. 460
ISLE OF WIGHT COUNTY, VIRGINIA

DATE: 11/29/18

FILE NO. SR185606

■ UPSTATE NEW YORK ■ BOSTON, MA ■ NEW YORK METRO ■ WARREN, NJ ■ PHILADELPHIA/SOUTHERN NJ ■ LEHIGH VALLEY, PA ■ SOUTHEASTERN PA
■ BALTIMORE, MD ■ SOUTHERN MARYLAND ■ NORTHERN VIRGINIA ■ WASHINGTON, DC ■ CENTRAL VIRGINIA ■ CHARLOTTE, NC ■ RALEIGH, NC



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



1



2



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



3



4



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



5



6



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



7



8



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



9



10



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



11



12



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



13



14



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



15



16



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



17



18



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



19



20



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



21



22



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



23



24



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



25



26



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



27



28



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



29



30



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



31



32



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



33



34



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



35



36



BOHLER

ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



37



38



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



39



40



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



41



42



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



43



44



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



45



46



BOHLER ENGINEERING

Civil, Consulting, Traffic and Geotechnical Engineers • Surveyors • Site Planners
22636 Davis Drive, Suite 250, Sterling, VA 20164 • Phone 703-709-9500



47



48



CanyonBrick Three-Part Specification

07 42 43

Composite Wall Panels

Part I - General

1.1 SECTION INCLUDES:

- A. Exterior, panelized fiber cement cladding system and accessories to complete a drained and back-ventilated rainscreen.
- B. Interior fiber cement panelized cladding system and accessories.

1.2 RELATED SECTIONS

- A. Section 05 41 00 - Structural Metal Stud Framing
- B. Section 06 10 00 - Rough Carpentry
- C. Section 06 16 00 - Sheathing
- D. Section 07 20 00 - Thermal Protection
- E. Section 07 25 00 - Weather Barriers
- F. Section 07 60 00 - Flashing and Sheet Metal
- G. Section 07 90 00 - Joint Protection

1.3 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 509-14 – Voluntary Test and Classification Method of Drained and Back Ventilated Rain Screen Wall Cladding Systems
- B. ASTM International (ASTM):
 - 1. ASTM C 518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - 2. ASTM C 1185 - Standard Test Methods for Sampling and Testing Non-Asbestos Fiber Cement.
 - a. ASTM C 1186 – Standard Specification for Flat Fiber-Cement Sheets.
 - 3. ASTM E-84 - Standard Test for Surface Burning Characteristics of Building Materials.
 - 4. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 - 5. ASTM E 228 - Standard Test Method for Linear Thermal Expansion of Solid Materials with a Vitreous Silica Dilatometer.

6. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
7. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- C. Florida Building Code - Test Protocol HVHZ
 1. Testing Application Standard (TAS) 202, 203 – HVHZ Test Procedures
- D. National Fire Protection Association (NFPA):
 1. NFPA 285 - Fire Test Method for Exterior Wall Assemblies Containing Combustible Material.
 2. NFPA 268 – Ignition Resistance of Exterior Wall Assemblies.
- E. Standards Council of Canada & Underwriters Laboratories Canada (ULC):
 1. CAN/ULC S-102 – Standard Method of Test for Surface Burning Characteristics.
 2. CAN/ULC S-134 – Standard Method of Fire Test of Exterior Wall Assembly.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data: Submit manufacturer's product description, storage and handling requirements, and installation instructions.
- C. Product Test Reports and Code Compliance: Documents demonstrating product compliance with local building code, such as test reports or Evaluation Reports from qualified, independent testing agencies.
- D. LEED Credits: Provide documentation of LEED Credits for project certification under USGBC LEED 2009 (Version 3.0) or 2012 v.4.
- E. Manufacturer's Details: Submit drawings (.dwg, .rvt, and/or .pdf formats), including plans, sections, showing installation details that demonstrate product dimensions, edge/termination conditions/treatments, compression and control joints, corners, openings, and penetrations.
- F. Samples: Submit samples of each product type proposed for use.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 1. All fiber cement panels specified in this section must be supplied by a manufacturer with a minimum of 10 years of experience in fabricating and supplying fiber cement cladding systems.
 - a. Products covered under this section are to be manufactured in an ISO 9001 certified facility.

2. Provide technical and design support as needed regarding installation requirements and warranty compliance provisions.

B. Installer Qualifications: All products listed in this section are to be installed by a single installer trained by manufacturer or representative.

C. Mock-Up Wall: Provide a mock-up wall as evaluation tool for product and installation workmanship.

D. Pre-Installation Meetings: Prior to beginning installation, conduct conference to verify and discuss substrate conditions, manufacturer's installation instructions and warranty requirements, and project requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Panels must be stored flat and kept dry before installation. A waterproof cover over panels and accessories should be used at all times prior to installation. Do not stack pallets more than two high. Refer to the information included on each pallet.

B. If panels are exposed to water or water vapor prior to installation, allow to completely dry before installing. Failure to do so may result in panel shrinkage at ship lap joints, and such action may void warranty.

C. Panels **MUST** be carried on edge. Do not carry or lift panels flat. Improper handling may cause cracking or panel damage.

D. Direct contact between the panels and the ground should be avoided at all times. It is necessary to keep panels clean during installation process.

1.7 WARRANTY

A. Provide manufacturer's 15-year warranty against manufactured defects in fiber cement panels. Additional 5-year extension available when refinished in year 14-15.

B. Provide manufacturer's 15-year warranty against manufactured defects in panel finish.

C. Warranty provides for the original purchaser. See warranty for detailed information on terms, conditions and limitations.

PART II: PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Nichiha Corporation, 18-19 Nishiki 2-chome Naka-ku, Nagoya, Aichi 460-8610, Japan.

B. Acceptable Manufacturer's Representative: Nichiha USA, Inc., 6465 E. Johns Crossing, Suite 250, Johns Creek, GA 30097. Toll free: 1.866.424.4421, Office: 770.805.9466, Fax: 770.805.9467, www.nichiha.com.

1. Basis of Design Product: Nichiha CanyonBrick.

- a. Profile color: Shale Brown.
- b. Profile: Each panel features six rows of brick pattern. Rows one, three, and five begin and end with a whole brick. Rows two, four, and six begin and end with a half brick.
- c. Accessory/Component Options:
 - i. Manufactured Corners with 3-1/2" returns for each profile color.
 - ii. Aluminum trim options: Corner Key, Open Outside Corner, H-Mold, J-Mold, Compression Joint, Inside Corner
 1. Finish: Clear Anodized or Primed
 - iii. Essential Flashing System: Starter, Overhang.
 1. Finish: Matte black
- d. Dimensions – AWP-1818: 455mm (17-7/8") (h) x 1,818 mm (71-9/16") (l).
- e. Panel Thickness: 16 mm (5/8").
- f. Finish: Matte, textured.
- g. Weight: 35.27 lbs. per panel.
- h. Coverage: 8.88 sq. ft. per panel.
- i. Factory sealed on six [6] sides.

C. Substitutions: Not permitted.

D. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 MATERIALS

- A. Fiber cement panels manufactured from a pressed, stamped, and autoclaved mix of Portland cement, fly ash, silica, recycled rejects, and wood fiber bundles.
- B. Panel surface pre-finished and machine applied.
- C. Panels profiled along all four edges, such that both horizontal and vertical joints between the installed panels are ship-lapped.
- D. Factory-applied sealant gasket added to top and right panel edges; all joints contain a factory sealant.

2.3 PERFORMANCE REQUIREMENTS:

A. Fiber Cement Cladding -- Must comply with ASTM C-1186, Type A, Grade II requirements:

1. Wet Flexural Strength: Result: 1418 psi, Lower Limit: 1015 psi.
2. Water Tightness: No water droplets observed on any specimen.
3. Freeze-thaw: No damage or defects observed.
4. Warm Water: No evidence of cracking, delamination, swelling, or other defects observed.
5. Heat-Rain: No crazing, cracking, or other deleterious effects, surface or joint changes observed in any specimen.

B. Mean Coefficient of Linear Thermal Expansion (ASTM E-228): Max 1.0×10^{-5} in./in. F.

C. Surface Burning (CAN-ULC S102/ASTM E-84): Flame Spread: 0, Smoke Developed: 0.

D. Wind Load (ASTM E-330): Contact manufacturer for ultimate test pressure data corresponding to framing type, dimensions, fastener type, and attachment clips. Project engineer(s) must determine Zone 4 and 5 design pressures based on project specifics.

1. Minimum lateral deflection: L/120.

E. Water Penetration (ASTM E-331): No water leakage observed into wall cavity.

F. Steady-State Heat Flux and Thermal Transmission Properties Test (ASTM C-518): 16mm thick panel thermal resistance R Value of 0.47.

G. Fire Resistant (ASTM E-119): The wall assembly must successfully endure 60-minute fire exposure without developing excessive unexposed surface temperature or allowing flaming on the unexposed side of the assembly.

H. Ignition Resistance (NFPA 268): No sustained flaming of panels, assembly when subjected to a minimum radiant heat flux of $12.5 \text{ kW/m}^2 \pm 5\%$ in the presence of a pilot ignition source for a 20-minute period.

I. Fire Propagation (NFPA 285): Wall assembly of Nichiha AWP, Ultimate Clips and Starter Track, Tyvek Commercial Wrap, 1/2" Densglass Gold Sheathing, 16" o.c. 18 gauge steel studs, mineral wool in-cavity insulation, and interior 5/8" Type X gypsum met the acceptance criteria of NFPA 285.

J. Fire Propagation (CAN/ULC S-134): Wall assembly of Nichiha AWP, Ultimate Clips and Starter Track, Tyvek Housewrap, 5/8" FRT plywood, 16" o.c. 2x wood studs, fiberglass in-cavity insulation, and interior 5/8" Type X gypsum met the acceptance criteria of CAN/ULC S-134.

- K. Drained and Back Ventilated Rainscreen (AAMA 509-14): System classifications: W1, V1.
- L. Florida Building Code - Test Protocol HVHZ (TAS 202, 203): Design Pressure: 95 psf.

2.4 INSTALLATION COMPONENTS

A. Ultimate Clip System:

1. Starter Track: FA 700 (10mm rainscreen) – 10' (3030mm) (I) galvalume coated steel.
2. Panel Clips: JEL 778 "Ultimate Clip II" (10mm rainscreen for 5/8" AWP) – Zinc-Aluminum-Magnesium alloy coated steel.
 - a. Joint Tab Attachments (included) – used at all AWP-1818 panel to panel vertical joints.
3. Corner Clips: JE 777C (10mm rainscreen for 5/8" AWP Manufactured Corners) -- Zinc-Aluminum-Magnesium alloy coated steel.
4. Single Flange Sealant Backer – FHK 1015 R (10mm) – 6.5' (I) fluorine coated galvalume.
5. Double Flange Sealant Backer – FH 1015 R (10mm) – 10' (I) fluorine coated galvalume.
6. Corrugated Spacer – FS 1005 (5mm), FS 1010 (10mm) – 4' (I).

B. Aluminum Trim (optional): Paint primed trim as specified in finish schedule.

C. Essential Flashing System (optional):

1. Starter – main segments (3030mm), inside corners, outside corners
2. Overhang – main segments (3030mm), inside corners, outside corners, joint clips

D. Fasteners: Corrosion resistant fasteners, such as hot-dipped galvanized screws appropriate to local building codes and practices must be used. Use Stainless Steel fasteners in high humidity and high-moisture regions. Panel manufacturer is not liable for corrosion resistance of fasteners. Do not use aluminum fasteners, staples or fasteners that are not rated or designed for intended use. See manufacturer's instructions for appropriate fasteners for construction method used.

E. Flashing: Flash all areas specified in manufacturer's instructions. Do not use raw aluminum flashing. Flashing must be galvanized, anodized, or PVC coated.

F. Sealant: Sealant shall comply with ASTM C920, Class 35.

PART III: EXECUTION

3.1 EXAMINATION

A. Verification of Conditions:

1. Fiber cement panels can be installed over braced wood, steel studs and sheathing including plywood, OSB, plastic foam (1" or less) or fiberboard sheathing. Fiber cement panels can also be installed over Structural Insulated Panels (SIP's), Concrete Masonry Units (CMU's) and Concrete Block Structures (CBS's) with furring strips, and Pre-Engineered Metal Construction. Insulated Concrete Forms (ICFs) require added measures. Consult with Nichiha Technical Services.
2. Allowable stud spacing: 16" o.c. maximum.
3. A weather resistive barrier is required when installing fiber cement panels. Use an approved weather resistive barrier (WRB) as defined by the 2015 IBC or IRC. Refer to local building codes.
4. Appropriate metal flashing should be used to prevent moisture penetration around all doors, windows, wall bottoms, material transitions and penetrations. Refer to local building codes for best practices.

B. Examine site to ensure substrate conditions are within alignment tolerances for proper installation.

C. Do not begin installation until unacceptable conditions have been corrected.

D. Do not install panels or components that appear to be damaged or defective. Do not install wet panels.

3.2 TOLERANCE

A. Wall surface plane must be plumb and level within +/- ¼ inch in 20 feet in any direction.

1. One layer of Nichiha 5mm (~3/16") Spacer may be used as shim.

3.3 INSTALLATION

A. General: Install products in accordance with the latest installation guidelines of the manufacturer and all applicable building codes and other laws, rules, regulations and ordinances. Review all manufacturer installation, maintenance instructions, and other applicable documents before installation.

1. Consult with your local dealer or Nichiha Technical Department before installing any Nichiha fiber cement product on a building higher than 45 feet or three stories or for conditions not matching prescribed standard installation guide requirements and methods. A **Technical Design Review (TDR)** process is available to evaluate project feasibility.
2. **Vertical Control/Expansion Joints** are required, for walls wider than 30 feet, within 2-12 feet of outside corners finished with metal trim *and* approximately every 30 feet thereafter.
3. **Horizontal/Compression Joints** are required for multi-story installations of AWP. Locate joints at floor lines. Joints are flashed minimum ½" breaks. Do not caulk. Refer to installation guide(s).
 - A. Wood framed buildings of three or more floors require a compression joint at each floor.
 - B. Steel framed buildings (including reinforced concrete core with LGMF exterior walls) of more than three floors (or 45 feet) require a compression joint every 25 feet at a floor line.

B. Panel Cutting

1. Always cut fiber cement panels outside or in a well ventilated area. Do not cut the products in an enclosed area.
2. Always wear safety glasses and NIOSH/OSHA approved respirator whenever cutting, drilling, sawing, sanding or abrading the products. Refer to manufacturer SDS for more information.
3. Use a dust-reducing circular saw with a diamond-tipped or carbide-tipped blade.
 - a. Recommended circular saw: Makita 7-1/4" Circular Saw with Dust Collector (#5057KB).
 - b. Recommended blade: Tenryu Board-Pro Plus PCD Blade (#BP-18505).
 - c. Shears (electric or pneumatic) or jig saw can be used for complicated cuttings, such as service openings, curves, radii and scrollwork.
4. **Silica Dust Warning:** Fiber cement products may contain some amounts of crystalline silica, a naturally occurring, potentially hazardous mineral when airborne in dust form. Consult product SDS or visit <https://www.osha.gov/dsg/topics/silicacrystalline/>.
5. Immediately clean dust from cut panels as it may bind to the finish.

3.4 CLEANING AND MAINTENANCE

A. Review manufacturer guidelines for detailed care instructions.



PRODUCTS

APPLICATIONS

RESOURCES

GET A SAMPLE

HOME / PRODUCTS / ARCHITECTURAL WALL PANELS / CANYONBRICK

CANYONBRICK

BRICK SERIES

- Distinguished Look of Brick
- Gray and Brown Tones Create an Inviting Earthy Palette
- Uneven Surface and Grout for Natural Appeal

FEATURES

- High-performance Fiber Cement



- Budget-conscious and Time-saving
- Built-in Rainscreen

SPECIFICATIONS —

AWP 1818

Dimensions (in.)

Dimensions (actual mm)

Thickness (in.)

Thickness (actual mm)

Weight (lbs. per panel)

Weight (lbs. per sq. ft.)

Exposed Coverage (sq. ft. per p

Packaging (piece per pack)

Panel Orientation



 [CAD Details](#)

 [Product Specs](#)

PRODUCT SUPPORT +

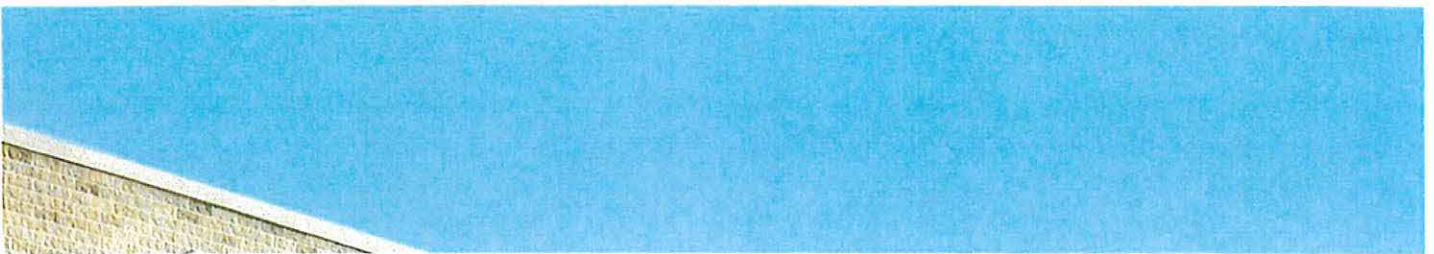
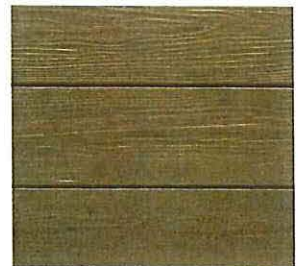


Get a Sample

CONTACT A REP

ADDITIONAL PRODUCTS

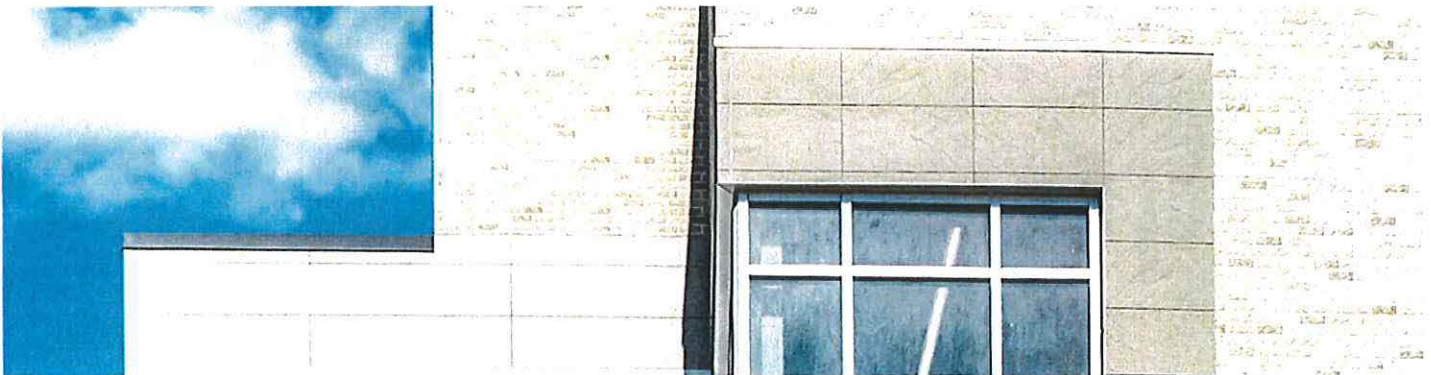
Customers Also Viewed

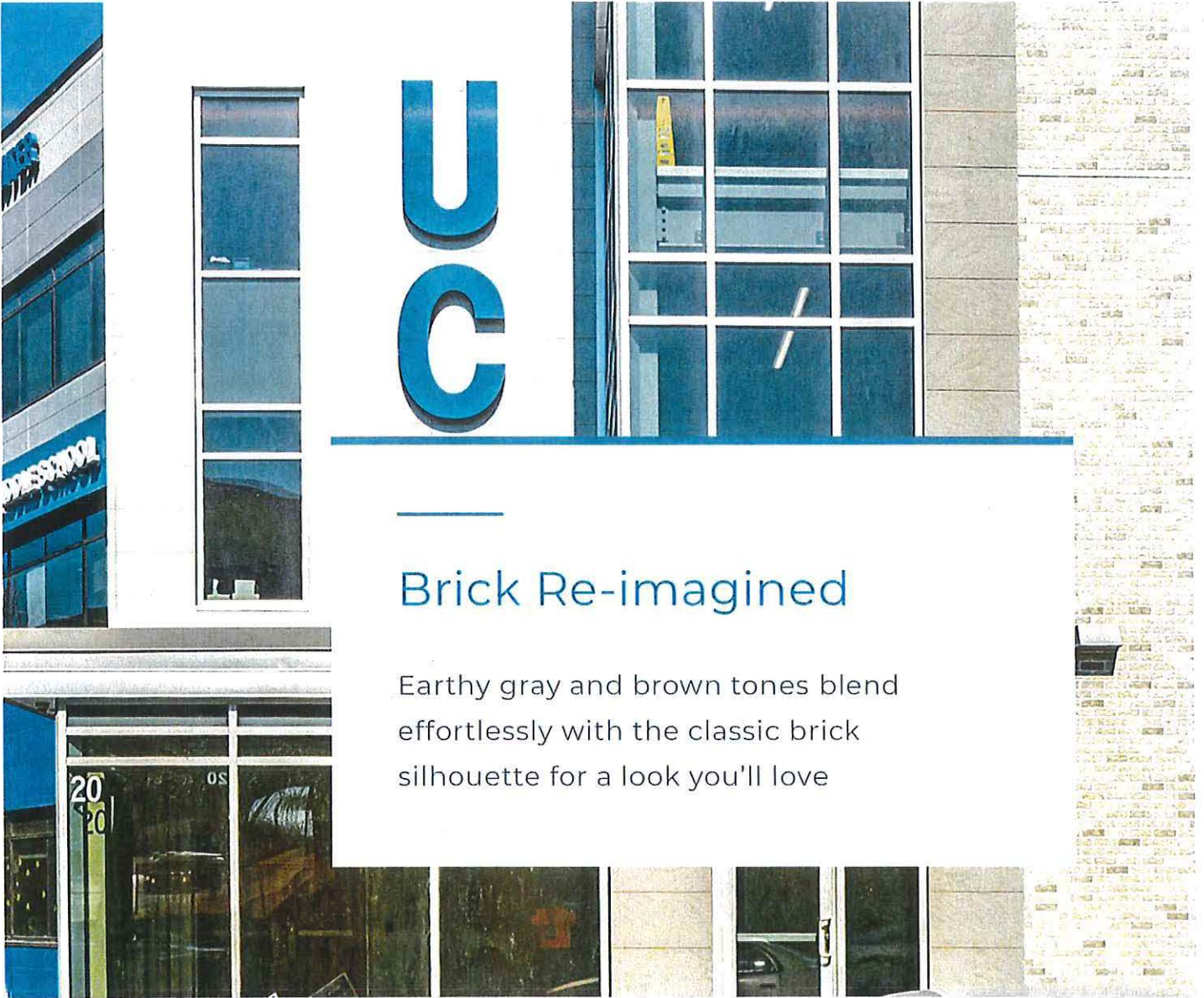




Timeless Appeal, Modern Performance

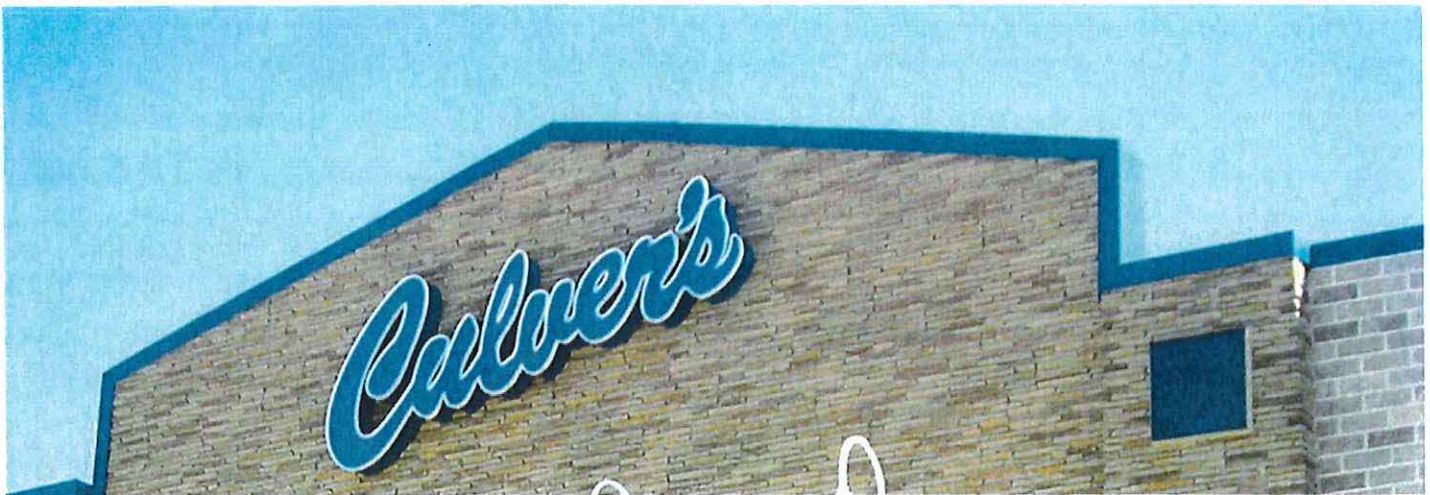
The distinguished look of traditional brick backed by the brawn of fiber cement

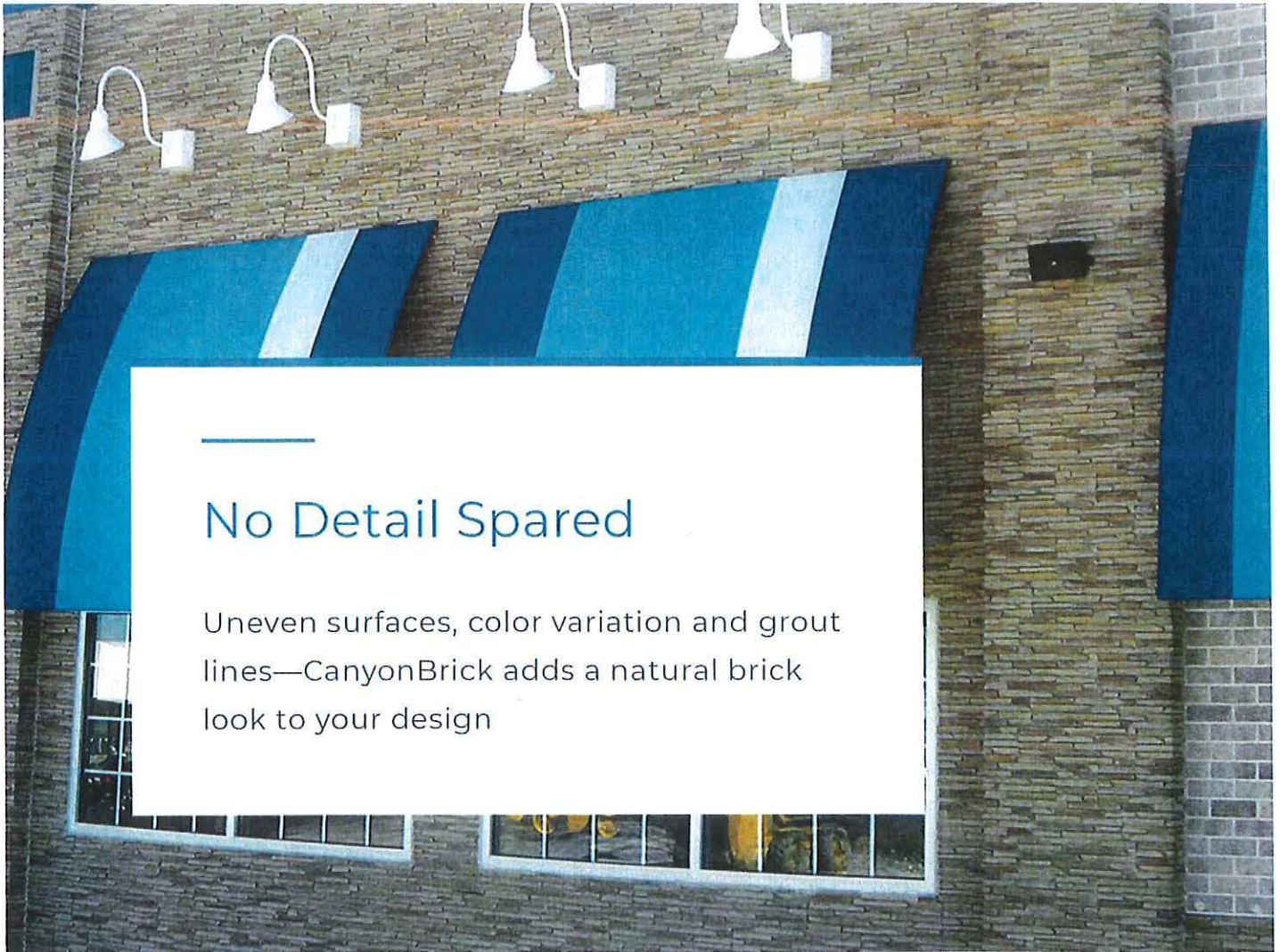




Brick Re-imagined

Earthy gray and brown tones blend effortlessly with the classic brick silhouette for a look you'll love





No Detail Spared

Uneven surfaces, color variation and grout lines—CanyonBrick adds a natural brick look to your design