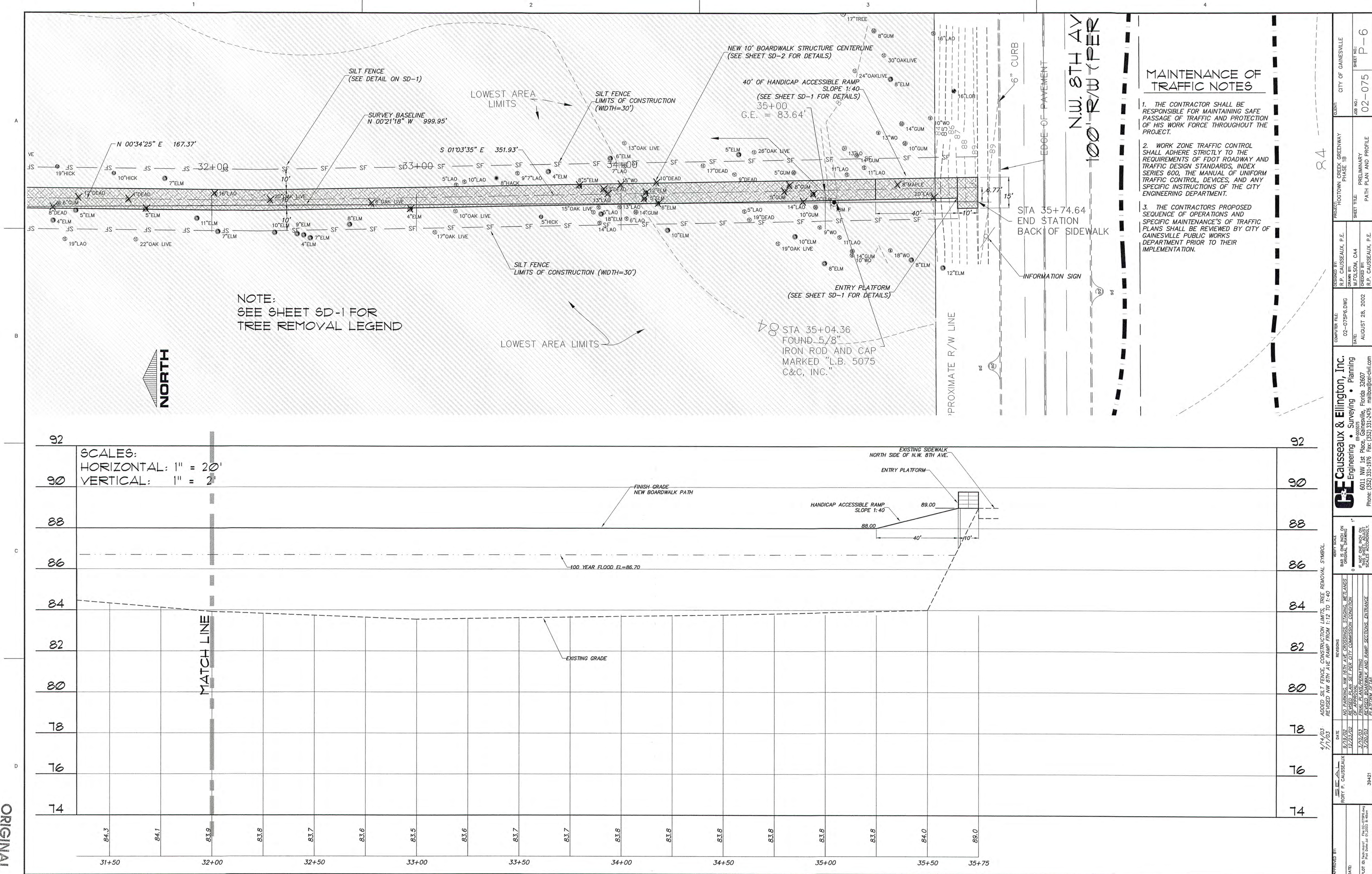
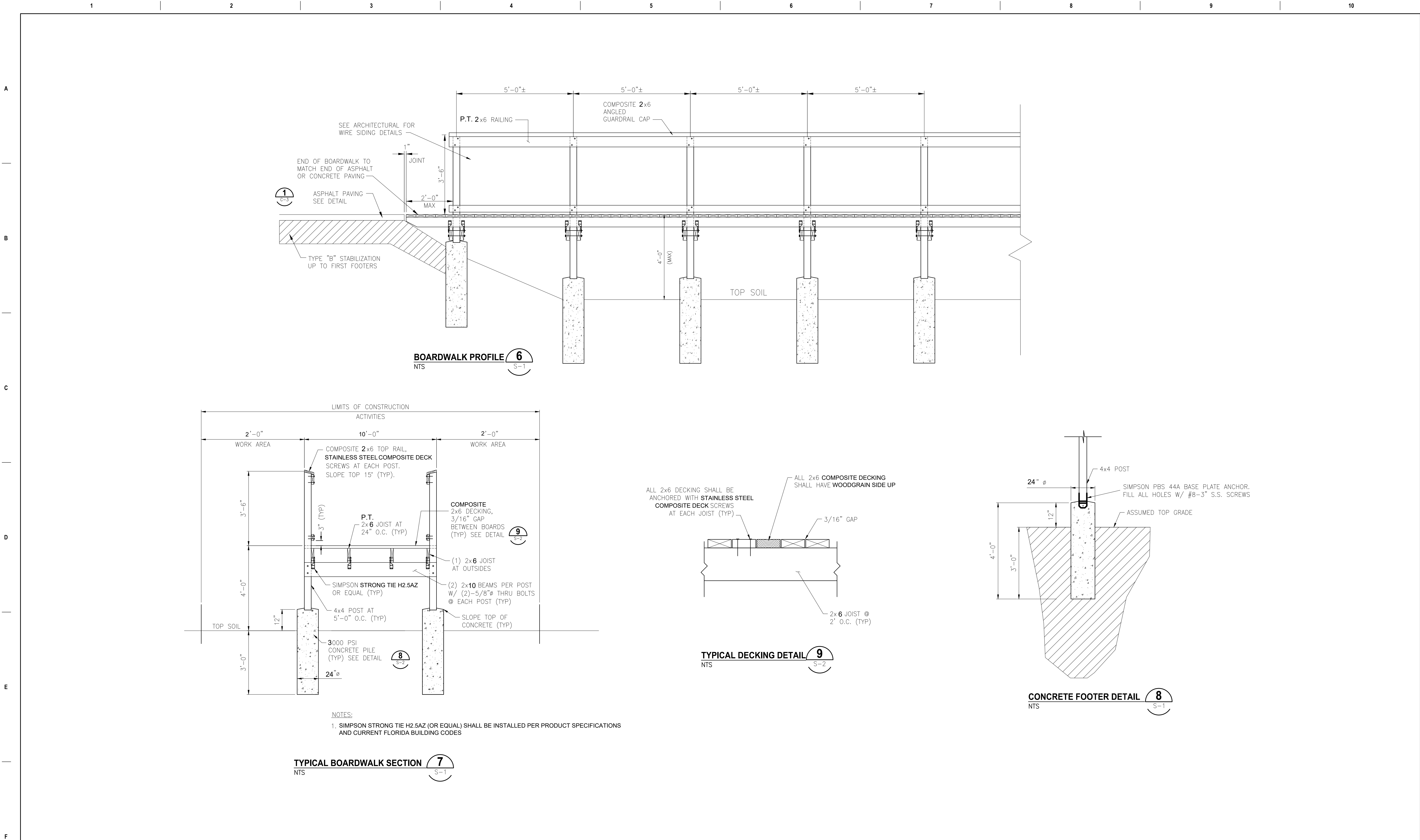


ORIGINAL
(If Above Appears in Blue)

ORIGINAL
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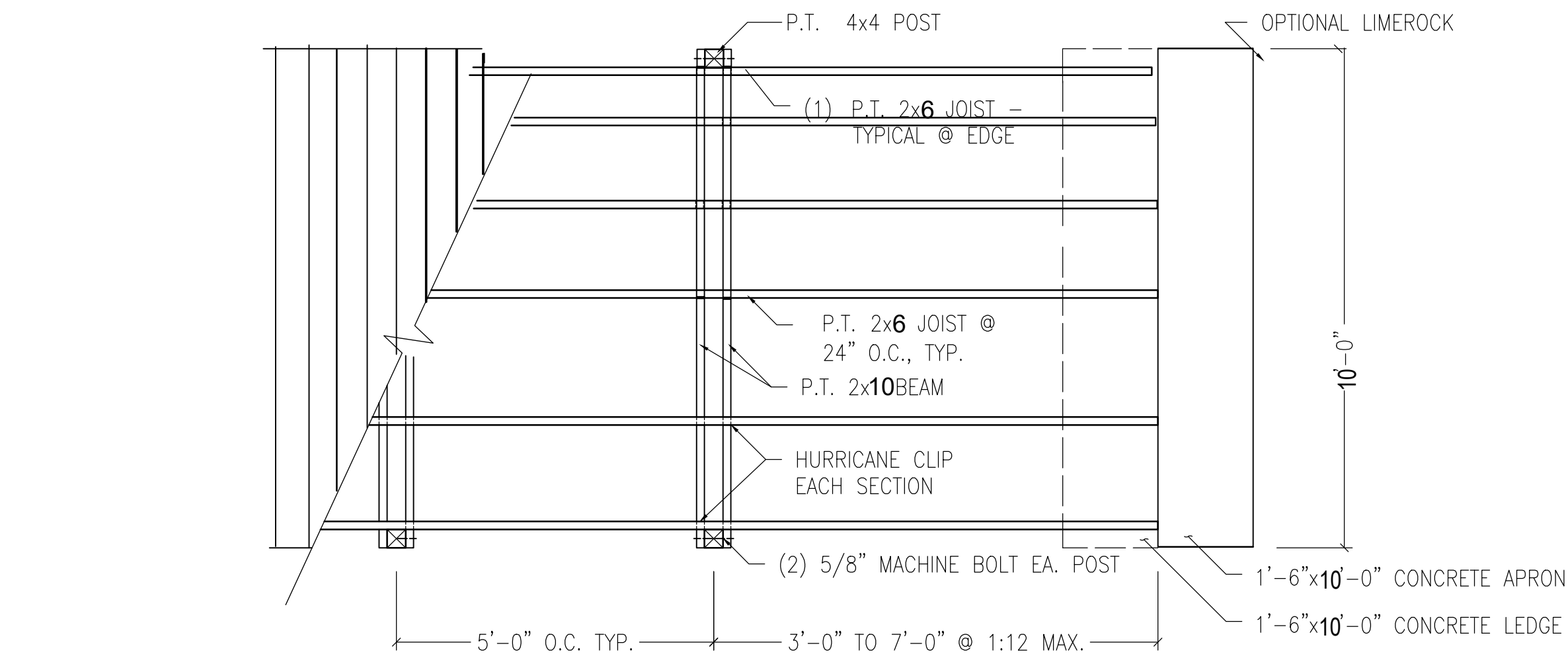




		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		Drawing Title	Phase	Project Title	Project Number					
								TYPICAL PLAN, SECTION AND DETAILS		Loblolly Woods Boardwalk Reconstruction	XXX-XXX-XXX			
												Building Number		
												Drawing Number		
										Location	GAINESVILLE, FLORIDA	S-2		
										Issue Date			Checked	Drawn
												4/26/2021		
Revisions:	Date:													

A

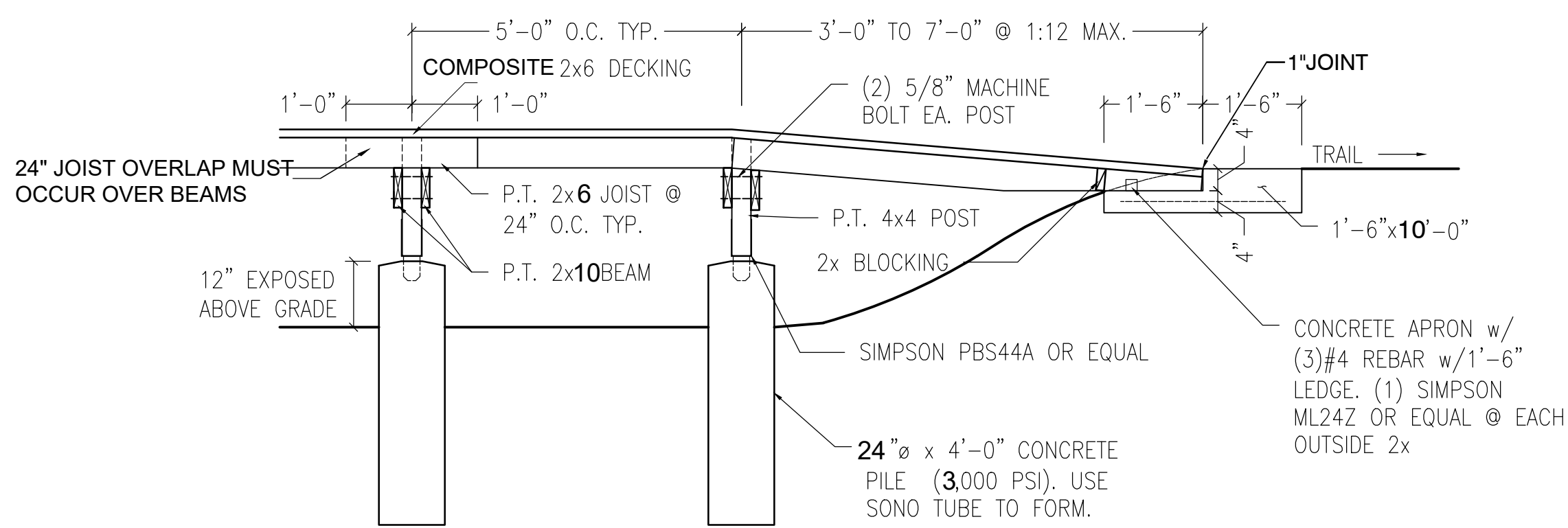
B



DECK PLAN

SCALE: 1-1/2" = 1'-0"

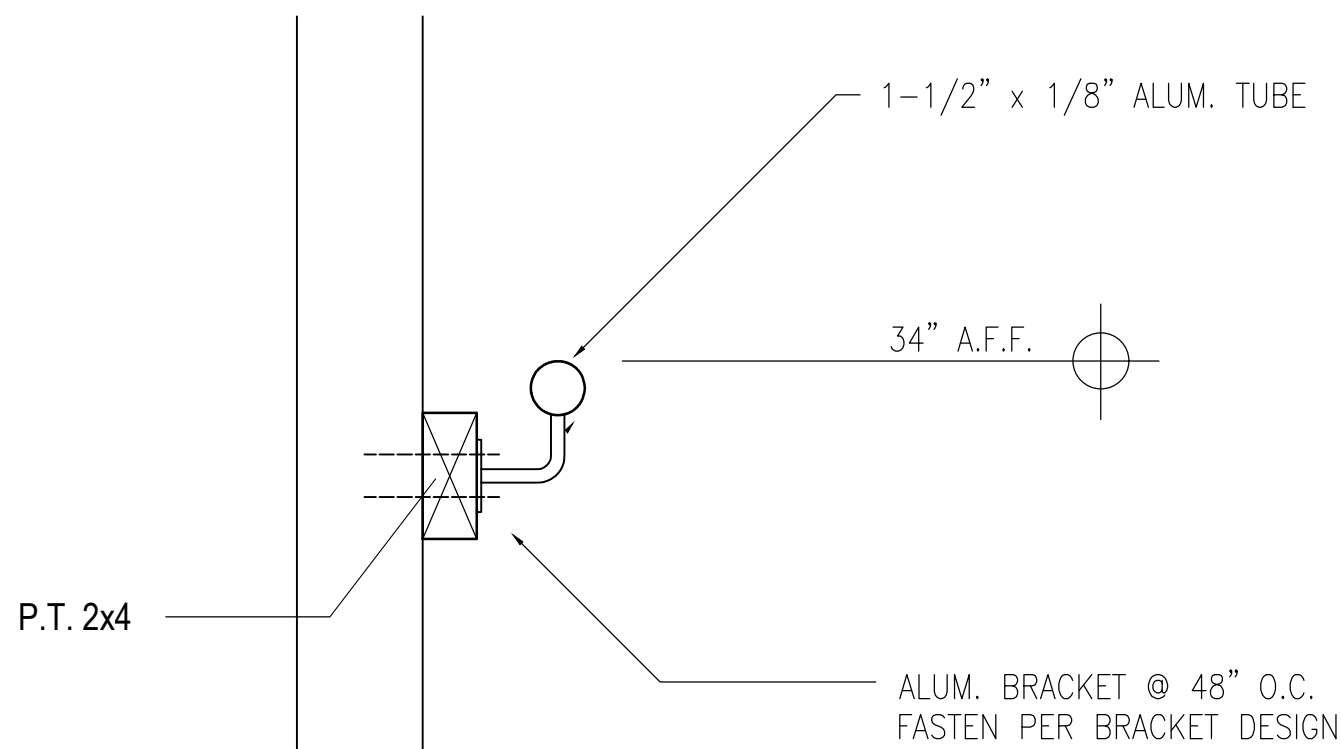
D1



DECK SECTION

SCALE: 1-1/2" = 1'-0"

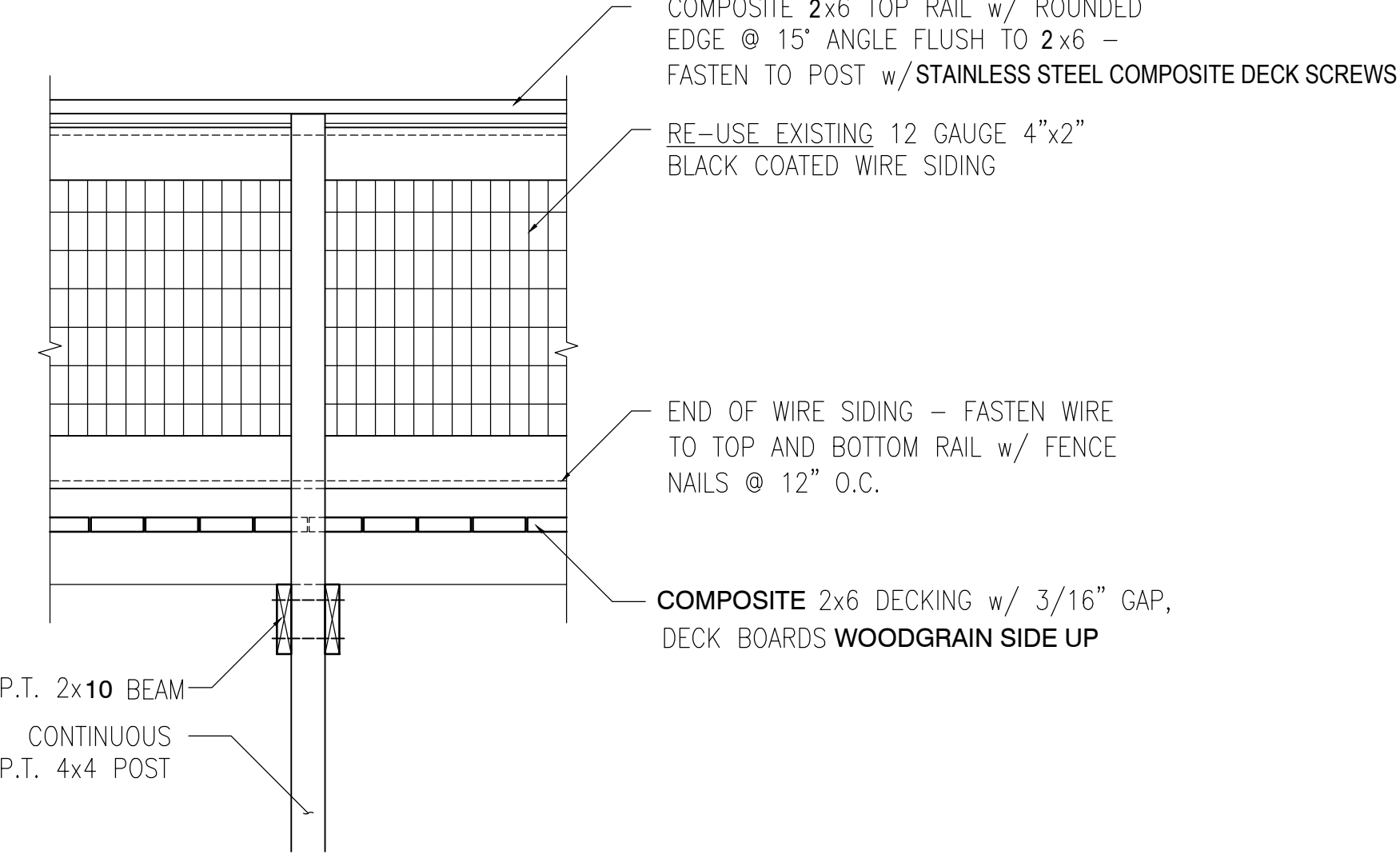
D2



HANDRAIL DETAIL

SCALE: N.T.S.

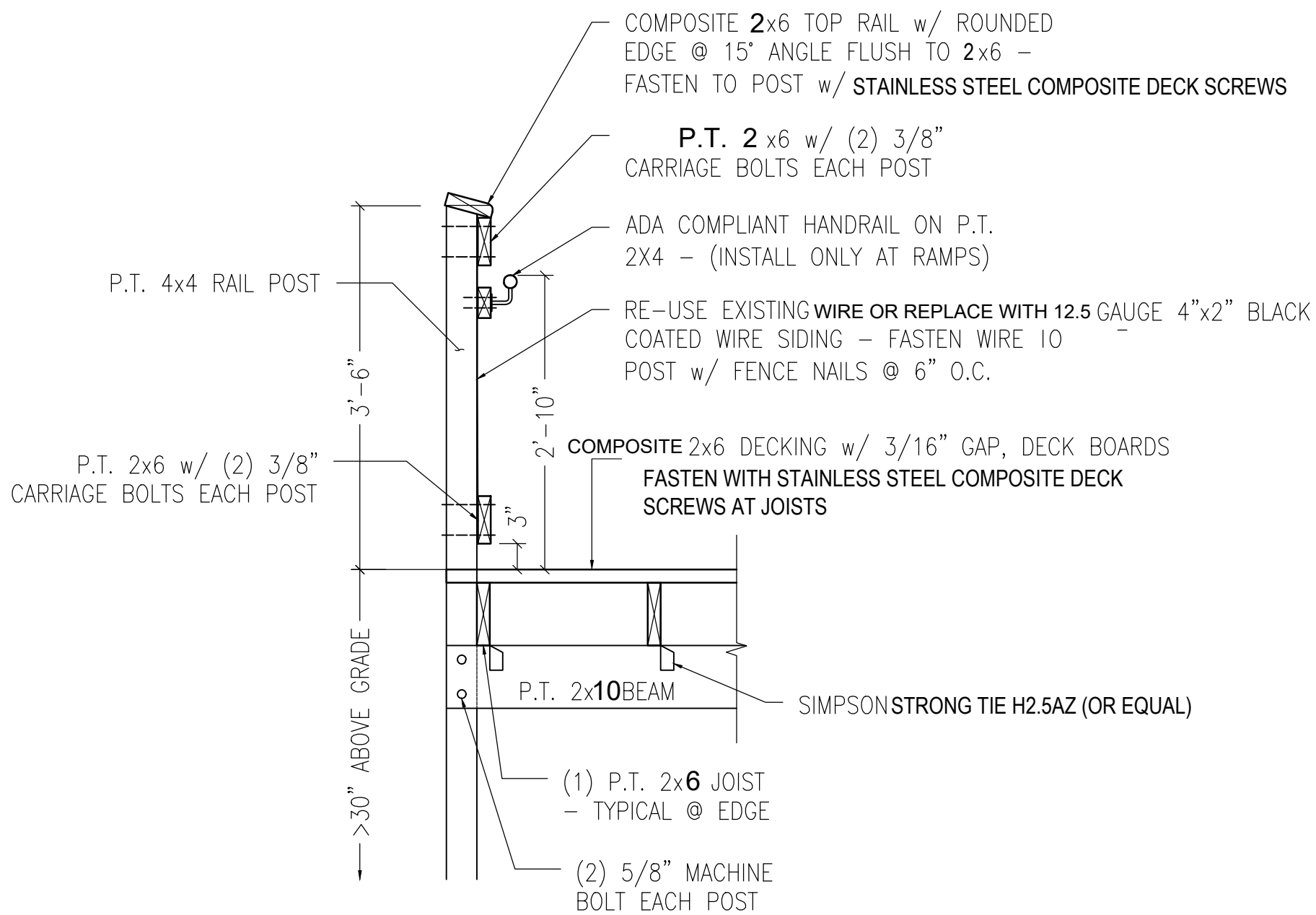
H1



PARTIAL SECTION

SCALE: 3/4" = 1'-0"

R1



PARTIAL SECTION

SCALE: 3/4" = 1'-0"

R2

NOTES: ONE HURRICANE CLIP SHALL BE INSTALLED AT EVERY INTERSECTION BETWEEN JOISTS AND BEAMS



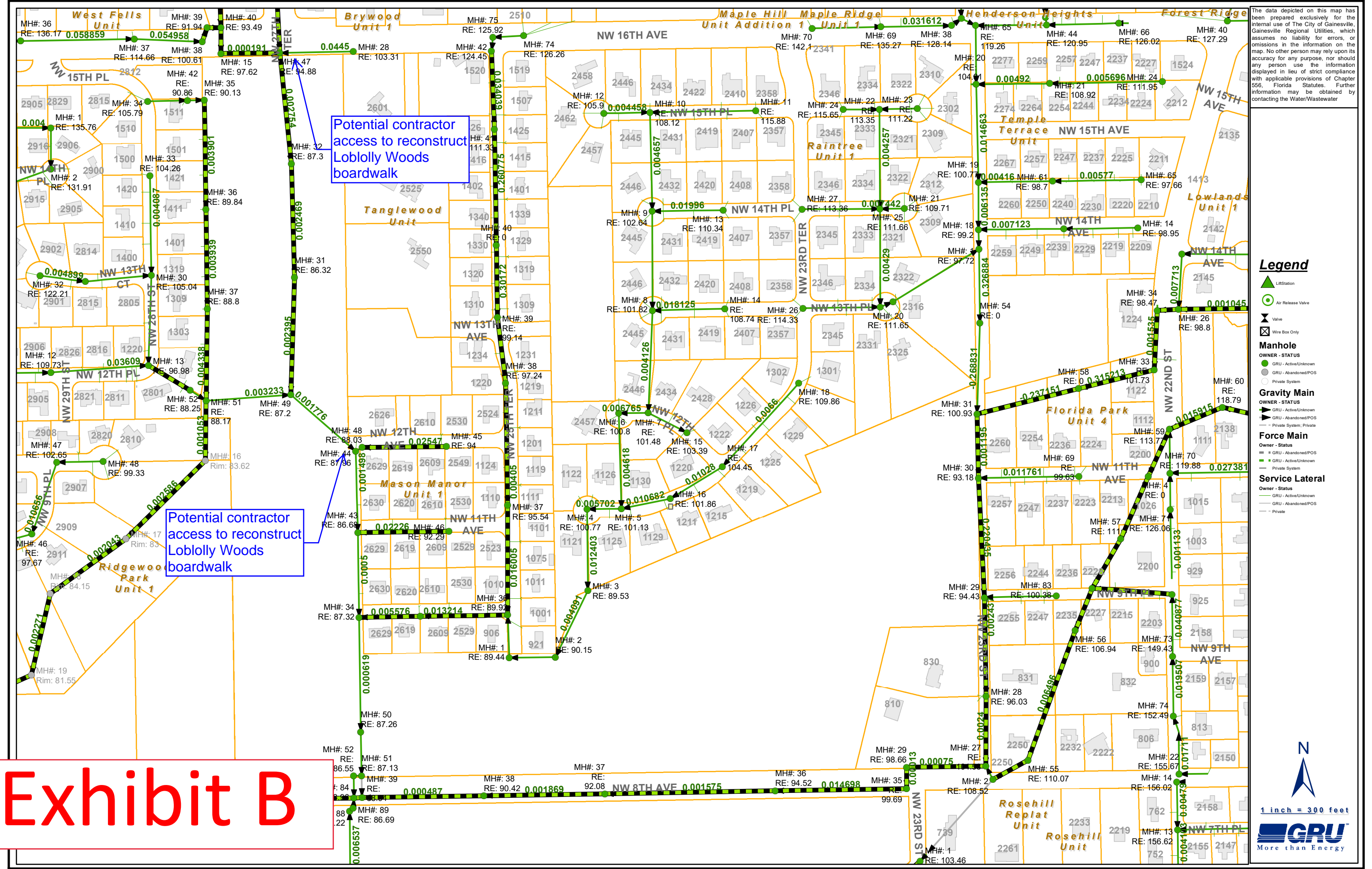
- ZONING AND LAND USE:**
THE PROJECT SITE LAND USE AND ZONING DESIGNATION IS 'CON', CONSERVATION, PASSIVE PUBLIC PARKS AND RECREATIONAL FACILITIES ARE A PERMITTED USE.
- FLOOD CONTROL DISTRICT:**
THE PROJECT SITE LIES WITHIN THE 10-YEAR, AND 100-YEAR FLOOD PLAIN. HIKING PATHS ARE PERMITTED USES WITHIN THE FLOOD CHANNEL AND FLOOD PLAIN DISTRICTS.
- SURFACE WATER DISTRICT:**
PUBLIC NATURE PATHS CONSTRUCTED OF COMPACTED EARTH THAT WILL NOT RESULT IN SIGNIFICANT HARM TO NATURAL FEATURES IS A SPECIFIED EXEMPTION (SECTION 30-304).
- STORMWATER MANAGEMENT:**
WATER QUALITY OF STORMWATER RUNOFF FROM THE PROPOSED IMPROVEMENTS WILL BE PROVIDED BY OVERLAND FLOW ACROSS GRASSSED AND NATURAL VEGETATED FOREST AREAS PRIOR TO DISCHARGE INTO A CREEK OR OTHER WATER BODY. WATER QUANTITY TREATMENT WILL BE PROVIDED WITHIN THE NATURAL FLOOD PLAN SYSTEM. THE PROPOSED IMPROVEMENTS WILL HAVE NO MEASURABLE EFFECT ON THE RUNOFF VOLUME OR CONVEYANCE CAPACITY OF THE EXISTING FLOOD PLAN SYSTEM.
- UTILITIES:**
THE PROPOSED DEVELOPMENT IMPROVEMENTS DO NOT REQUIRE WATER, WASTEWATER, GAS OR ELECTRIC FACILITIES. EXISTING PUBLIC UTILITY EASEMENTS ARE UTILIZED AS ROUTES FOR A PORTION OF THE PATHS TO PROVIDE DUAL USE AND TO MINIMIZE THE IMPACT ON THE NATURAL FEATURES.
- TREE PROTECTION:**
THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING TREES FROM DAMAGE WITHIN THE CONSTRUCTION LIMITS THAT ARE NOT DESIGNATED TO BE REMOVED. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING CONSTRUCTION TO AVOID CONTACT WITH THE TREES TO BE PRESERVED, INCLUDING ABOVE GRADE AND BELOW GRADE DISTURBANCE.
TRAIL SYSTEM: THE CONTRACTOR SHALL AVOID DISTURBANCE OF ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION AND SHALL MINIMIZE DISTURBANCE WITHIN THE LIMITS OF CONSTRUCTION TO ONLY THAT WHICH IS NECESSARY TO CONSTRUCT THE BOARDWALK. TREES SHALL BE PRESERVED WITHOUT HARMFUL DAMAGE, CONTRACTOR MEANS AND METHODS WILL DETERMINE WHETHER OR NOT TREE BARRICADES ARE NEEDED.
ALL ROOTS OF TREES TO BE PRESERVED THAT MAY BE EXPOSED DURING THE BOARDWALK CONSTRUCTION SHALL BE CUT CLEANLY (NOT TORN OR BROKEN) AND COVERED WITH SOILS (NOT LEFT OPEN OR EXPOSED). THE CONTRACTOR SHALL CONSULT WITH THE CITY PROJECT MANAGER AS NECESSARY DURING THE COURSE OF CONSTRUCTION REGARDING ACTIONS NECESSARY TO MINIMIZE DAMAGE TO TREES TO BE PRESERVED.
- EROSION AND SEDIMENTATION CONTROL:**
EROSION AND SEDIMENTATION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADDITIONAL EROSION CONTROL MAY BE REQUIRED DURING CONSTRUCTION TO CONTROL SITE SPECIFIC AREAS OF EROSION WITHIN THE CONSTRUCTION LIMITS TO PREVENT AGAINST THE DISCHARGE OF SEDIMENTS BEYOND THE DESIGNATED CONSTRUCTION LIMITS. APPROPRIATE EROSION CONTROL MEASURES SHALL BE UTILIZED TO CONTROL AREAS OF EROSION AT EACH OCCURRENCE. TEMPORARY SEED AND/OR MULCH SHALL BE UTILIZED TO PROTECT SOILS FROM LONG DURATION OF EXPOSURE. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE. THE CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY THE EROSION/SEDIMENT PROTECTION AT THE END OF EACH WORKING DAY.
- CONSTRUCTION PHASING PLAN SEQUENCE OF CONSTRUCTION**
 - 1) EROSION PROTECTION AND TREE PROTECTION. CONTRACTOR MEANS AND METHODS WILL DETERMINE SWPP AND TREE PROTECTION REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH THE CITY'S PUBLIC WORKS DEPARTMENT AND ARBORIST.
 - 2) BOARDWALK CONSTRUCTION
 - 3) CLEANUP AND VEGETATIVE STABILIZATION
 - 4) EROSION PROTECTION AND TREE PROTECTION REMOVAL.
- SPECIAL CONDITIONS**
CONSTRUCTION MAY BE IMPEDED DURING WET CONDITIONS. THE CONTRACTOR WILL NOT BE ALLOWED TO WORK WITHIN THE WETLAND AREA, DURING PERIODS WHEN THE CONSTRUCTION AREA IS INUNDATED.
- JOB CONDITIONS**
 - 1) TRAFFIC: ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND ADJACENT FACILITIES OCCUPIED OR IN USE. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER FACILITIES OCCUPIED OR IN USE WITHOUT PERMISSION FROM THE CITY'S PUBLIC WORKS DEPARTMENT.
 - 2) PROTECTION OF EXISTING IMPROVEMENTS: PROVIDE PROTECTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN IN PLACE.
 - A) PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
 - B) RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO THE CITY'S PROJECT MANAGER.
 - 3) PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE. AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE, PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
 - A) REPAIR OR REPLACE TREES AND VEGETATION INDICATED TO REMAIN WHICH ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER ACCEPTABLE TO OWNER. EMPLOY LICENSED ARBORIST TO REPAIR DAMAGES TO TREES AND SHRUBS.
 - B) REPLACE TREES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL GROWTH STATUS, AS DETERMINED BY CITY OF GAINESVILLE ARBORIST
- EXECUTION**
SITE CLEARING CAREFULLY AND CLEANLY CUT ROOTS AND BRANCHES OF TREES INDICATED TO BE LEFT STANDING, WHERE SUCH ROOTS AND BRANCHES OBSTRUCT NEW CONSTRUCTION.
- PRODUCTS**
 - 1) All decking, and top handrail shall be replaced with 2"x6" WearDeck (composite, HDPE reinforced with fiberglass in Weatherwood color). Decking boards shall end flush with the inside edge of structural posts and installed with the woodgrain side up. Fastener on the outer edge of new decking shall not be installed directly under the lower side rail to aid in replacement of damaged boards in the future.
 - 2) All new sideboards (top and bottom) and approximately 190' of 2"x4" boards (mainly where the metal handrail is attached) shall be ground contact, dense select structural .31CA - C treated Southern Yellow Pine.
 - 3) All new joist, beam and post lumber shall be ground contact, dense select structural .60 CCA-C or .31CA - C treated Southern Yellow Pine.
 - 4) CHROMATED COPPER ARSENATE (CCA) TREATED LUMBER IS PERMITTED PER CITY BUILDING DEPARTMENT.
 - 5) ROUGH HARDWARE:
 - A.) GENERAL: ROUGH HARDWARE INCLUDES NAILS, SCREWS, BOLTS, WASHERS, ANCHORS, STEEL PLATES AND ANGLES, ETC. REQUIRED FOR THE FASTENING OF WOODWORK OR FOR THE SECURING OF BLOCKING, Furring OR ROUGH WOODWORK TO MASONRY, CONCRETE OR METAL.
 - B.) ALL ROUGH HARDWARE (EXCEPT SCREWS) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. ELECTRO-GALVANIZING WILL NOT BE ACCEPTED.
 - C.) NAILS: EXCEPT WHERE NOTED DIFFERENTLY ON THE DRAWINGS, FASTEN FRAMING WITH COMMON NAILS, IN ACCORD WITH SCHEDULE OF NAILING LOCATED IN THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. RING SHANK OR SPIRAL NAILS SHALL BE USED FOR ATTACHMENT OF DECKING. PER FBC SECTION 2006.3, NAILS MUST BE "HOT DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER." ELECTRO GALVANIZED NAILS ARE SPECIFICALLY NOT ACCEPTABLE.
 - D.) For pressure treated lumber use Grip-Rite/Prime Guard Exterior Screws, 3"x9 T-25 (or equal) in Tan or Green to match treated wood color. Color to be reviewed/approved by the City's Project Manager prior to the start of construction.
 - E.) For composite boards use Stainless Steel Composite Deck Screws countersunk so the head is flush with the surface of the board. Use one of the brands recommended by the WearDeck Manufacturer: Starborn, Simpson Strong-Tie, Deckmate, TrapEase by Fasten Master, Tiger Claw, etc. Per WearDeck, when face fastening a 2" board, use at a minimum, a #10 x 2 1/2".

CONSTRUCTION NOTES:

1. BOARDWALK RAMPS TO BE SLOPED LESS THAN 1:12.
2. ALL PIECES TO BE PRE-DRILLED AND BOLTED THRU, EXCEPT WHERE SHOWN OTHERWISE.
3. NO BOLT HOLE TO BE MORE THAN 2" FROM END OF WOOD MEMBER.
4. BOLTS TO BE PLACED ON CENTERLINE OF WOOD MEMBERS OR 1-1/2" FROM EDGE AS APPLICABLE.
5. USE (2) WASHERS AND NUT AT EACH THRU BOLT. USE (1) WASHER AT EACH CARRIAGE BOLT.
6. DECK BOARDS TO BE CAREFULLY SELECTED AND PLACED TO A TOLERANCE OF NOT MORE THAN 1/8" VARIATION IN LEVEL SURFACE AT ADJACENT BOARD EDGES.
7. ALL DECKING TO BE INSTALLED WITH A 3/16" GAP BETWEEN BOARDS.
8. BEVEL ALL EXPOSED EDGES AND REMOVE SNAG HAZARDS ON TOP RAILS.
9. THE CONTRACTOR MUST FIELD VERIFY ALL FASTENER TYPES AND SIZES BEFORE COMMENCING CONSTRUCTION ACTIVITIES.
10. O.C. DENOTES "ON CENTER"

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	Drawing Title	Phase	Project Title	Project Number
				ARCHITECTURAL DETAILS		Loblolly Woods Boardwalk Reconstruction	XXX-XXX-XXX
						Location	Building Number
						GAINESVILLE, FLORIDA	
						Issue Date	Drawing Number
						4/26/2021	A101
						Checked	
						Drawn	
Revisions:	Date:						

Exhibit B





Transparent Matte Cetol® SRD Wood Finish SIK240

DESCRIPTION

Cetol SRD Wood Finish is transparent matte finishes for siding, rails and decks. Available in a curated palette of eight richly-saturated wood tones.

FEATURES

- High-solids alkyd-oil formula, one-coat application
- High-transparency transoxide pigments amplify depth of color, clarity and substrate protection
- Excellent penetration for long-lasting protection and longer-lasting color
- Powerful UV absorbers protect color and wood substrate
- Water-repellent
- Provides a mildew-resistant finish

SHIPPING

FREIGHT CLASSIFICATION:

Paint, Combustible Liquid, PGIII

PACKAGING:

1 gallon (3.785 L)
5 gallons (18.925 L)

FLASH POINT:

115° F (46° C)

READY MIX COLORS

SIK240-005	Natural Oak
SIK240-009	Dark Oak
SIK240-045	Mahogany
SIK240-072	Butternut
SIK240-077	Cedar
SIK240-078	Natural
SIK240-085	Teak
SIK240-089	Redwood

SPECIFICATION DATA

Clean-up Solvent:

Mineral Spirits

Resin:

Alkyd

Density*:

7.25 lbs/gal (0.87 kg/L)

VOC*:

<550 g/L (4.58 lbs/gal)

Solids*:

Volume - 38% +/- 1%

Weight - 43% +/- 1%

Practical Coverage:

On rough and weathered surfaces,
150-250 sq ft/gallon (4-6 m²/L).

On smooth surfaces or hardwoods,
300-400 sq ft/gallon (7-10 m²/L).

Actual coverage may vary depending on the type, age and texture of the wood and application method.

Dry Time 77°F (25°C) & 50% RH:

To touch - 12 hours

To light foot traffic - 24-48 hours

Wait 72 hours before replacing furniture. Low temperature, high humidity or poor ventilation will increase these times. Avoid heavy abrasions immediately following application

Shelf Life:

5 years maximum - unopened

Disposal:

Contact your local environmental regulatory agency for guidance on disposal of unused product. Do not pour down a drain or storm sewer.

*Data may vary with product color.

Read Label and Material Safety Data Sheet Prior to Use. See other cautions on last page.

SURFACE PREPARATION

GENERAL SURFACE PREPARATION: All wood surfaces must be thoroughly clean, dry and free of dirt, grease, grime, mildew, mill glaze and previous coatings before application. Spray all wood surfaces with clean water, completely wetting the wood. ~~Apply a cleaning solution of four (4) ounces of 100% powdered Tri-Sodium Phosphate (TSP) or phosphate-free substitute with one (1) quart of liquid bleach and three (3) quarts of water to the wood surfaces with a garden sprayer or a heavy nap roller cover. Scrub surface with a hard bristle brush for 15-20 minutes to help remove mill glaze or weathering. Do not allow solution to dry on the wood surface.~~ Power-wash wood surface clean fresh water using 500-800 psi with the nozzle 8-12 inches away to remove cleaning solution. Allow the surface to dry for 48 hours, or to have a moisture content of 18% or less before application. ~~Sand all cleaned wood using 80-120 grit sandpaper for vertical surfaces and 60-80 grit sandpaper for horizontal surfaces. Always sand in direction of the wood grain and remove sanding dust.~~ Finish should be applied within one week of preparation for horizontal surfaces (decks) and four weeks for vertical surfaces (siding), provided that the surface remains free of dirt, grease, grime and mildew.

NEW WOOD - Clean and prepare all wood surfaces as specified under **GENERAL SURFACE PREPARATION**. Pressure treated wood must be properly seasoned, dry with a moisture content of 18% or less and free of

salts and other water soluble materials. Water-repellent treated lumber requires one year minimum of weathering.

EXOTIC HARDWOOD - Ipe, mahogany, iron wood, tiger wood and teak woods exhibit a dense cell structure which may reduce the ability of a coating to penetrate the wood surface. Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**. Immediately prior to applying coating, wipe surface with acetone.

PREVIOUSLY COATED WOOD - Previous coatings must be completely removed prior to application of *Cetol* SRD Wood Finish. Once previous coating is removed, clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear an NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

DIRECTIONS FOR USE

APPLICATION:

CAUTION: Surfaces are slippery when wet. Use caution when walking on wet surfaces during application.

Test wood for absorbency by sprinkling water on the surface – if water is absorbed within 30 sec. - 2 min., depending on climate, the surface is ready for finishing. If water is not absorbed, wait 30 days and re-test. Before starting, test your color choice on a small area. Buy sufficient product for the whole job. Intermix all product together before starting to avoid color variance. Stir thoroughly before and during application. Do not thin. Apply when air and surface temperature is between 50° F (10° C) - 90° F (32° C). Do not apply in direct sunlight, if rain, snow, heavy dew or low temperatures below 40° F (4° C) are expected within 48 hours. Application using a natural bristle brush is the preferred method. If applied by roller or airless sprayer, back brush immediately to ensure penetration and to avoid an uneven finish. For airless spray, use a .011"-.015" tip at 700 - 800 psi, adjust pressure as needed. Apply only one even coat, in the direction of the grain avoiding heavy application. To avoid lap marks, start at one edge and follow through to the end of each board, maintaining a wet edge. Coat all end grains and the back of all boards if possible.

NOTE: Tannin containing woods such as redwood, red cedar, mahogany, douglas fir, etc. contain tannic acid which tends to migrate to the surface and can discolor the finish. The discoloration is not harmful and can usually be removed by cleaning with a

solution of four (4) ounces of oxalic acid to one gallon of warm water. Apply with a garden sprayer or heavy nap roller cover. Allow to sit on surface for 20 min. Rinse thoroughly with clean water. **DO NOT ALLOW solution to dry on wood surface.**

COVERAGE:

On rough and weathered surfaces, 150-250 sq ft/gal (4-6 m²/L). On smooth surfaces or hardwoods, 300-400 sq ft/gal (7-10 m²/L). Actual coverage may vary depending on the type, age and texture of the wood and application method.

DRY TIME @ 77°F (25°C) & 50% RH:

Dries to touch in approximately 12 hours. Dries to light foot traffic in 24 - 48 hours. Wait 72 hours before replacing furniture. Low temperature, high humidity, thick films or poor ventilation will increase these times. Avoid heavy abrasions immediately following application.

CLEANUP AND MAINTENANCE:

Clean tools immediately with mineral spirits. Clean spills right away with a damp cloth. To maintain the products protective characteristics, apply a maintenance coat when visibly required. Clean and prepare surface as specified under **GENERAL SURFACE PREPARATION**. Areas that show minimal wear should only be lightly coated. Hardwoods and lighter colors may require more frequent maintenance.

PRECAUTIONS

DANGER! COMBUSTIBLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY CAUSE SKIN IRRITATION. Sanding and grinding dusts may be harmful if inhaled. Inhalation of high concentrations of vapor may affect the central nervous system. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Can enter lungs and cause damage. Keep away from heat and flame. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes. Avoid contact with skin and clothing. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Provide fresh air ventilation during and after application and drying. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Use personal protective equipment as required. **DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH CETOL SRD WOOD FINISH MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER. Note: These warnings encompass the product series. Prior to use, read and follow product-specific MSDS and label information. FIRST AID:** If swallowed, rinse mouth with water (only if the person is conscious). Call physician immediately. Do not induce vomiting unless directed to do so by medical personnel. If in eyes, rinse with water for 15 minutes. Check for and remove any contact lenses. If on skin, rinse well with water. Wash with soap and water. Get medical attention if irritation develops. If inhaled, remove to fresh air. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. Keep out of the reach of children. For workplace use, an MSDS is available from your retailer or by calling (412) 492-5555. EMERGENCY SPILL INFORMATION: (412) 434-4515 (U.S.).

SAFETY DATA SHEET



Date of issue/Date of revision 22 January 2021

Version 13

Section 1. Identification

Product name : SIK240-077 PPG PROLUXE SRD WOOD FINISH TRANSPARENT MATTE EXTERIOR CEDAR CEDAR 077

Product code : 00366000

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : ☒ Consumer applications, Professional applications, Used by spraying.

Use of the substance/ mixture : Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

Emergency telephone number : ☒ (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
SETIQ Interior de la República: 800-00-214-00 (México)
SETIQ Ciudad de México: (55) 5559-1588 (México)

Technical Phone Number : 1-800-441-9695 (8:00 am to 5:00 pm EST)

Section 2. Hazards identification




OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : ☒ FLAMMABLE LIQUIDS - Category 3
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
ASPIRATION HAZARD - Category 1

☒ Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 40.2% (oral), 41.3% (dermal), 95% (inhalation)

GHS label elements

Section 2. Hazards identification

Hazard pictograms	:	  
Signal word	:	Danger
Hazard statements	:	<p>F Flammable liquid and vapor. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))</p>
Precautionary statements		
Prevention	:	<p>P Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</p>
Response	:	<p>R If exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p>
Storage	:	<p>S Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.</p>
Disposal	:	<p>Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>
Supplemental label elements	:	<p>Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.</p>
Hazards not otherwise classified	:	<p>Prolonged or repeated contact may dry skin and cause irritation.</p>

Product code 00366000**Date of issue** 22 January 2021 **Version** 13**Product name** SIK240-077 PPG PROLUXE SRD WOOD FINISH TRANSPARENT MATTE EXTERIOR CEDAR CEDAR 077

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Product name : SIK240-077 PPG PROLUXE SRD WOOD FINISH TRANSPARENT MATTE EXTERIOR CEDAR CEDAR 077

Ingredient name	%	CAS number
Solvent naphtha (petroleum), medium aliph.	≥50 - ≤73	64742-88-7
2-butanone oxime	<1.0	96-29-7
calcium bis(2-ethylhexanoate)	<1.0	136-51-6

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

- Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : No specific data.

Section 4. First aid measures

- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary


- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** :  Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Hazardous thermal decomposition products** : No specific data.

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept

Section 7. Handling and storage

tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Special precautions

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Solvent naphtha (petroleum), medium aliph. 2-butanone oxime calcium bis(2-ethylhexanoate)	ACGIH TLV (United States). TWA: 400 ppm OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 400 mg/m ³ 8 hours. IPEL (PPG). TWA: 3 ppm STEL: 9 ppm None.

Key to abbreviations

A = Acceptable Maximum Peak
 ACGIH = American Conference of Governmental Industrial Hygienists.
 C = Ceiling Limit
 F = Fume
 IPEL = Internal Permissible Exposure Limit

S = Potential skin absorption
 SR = Respiratory sensitization
 SS = Skin sensitization
 STEL = Short term Exposure limit values
 TD = Total dust

Section 8. Exposure controls/personal protection

OSHA = Occupational Safety and Health Administration.

R = Respirable

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

TLV = Threshold Limit Value

TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety glasses with side shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves : For prolonged or repeated handling, use the following type of gloves:

Recommended: nitrile rubber

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Section 8. Exposure controls/personal protection

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.
Color : Brown.
Odor : Characteristic.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.
Boiling point : 157°C (314.6°F)
Flash point : Closed cup: 46°C (114.8°F)
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive (flammable) limits : Not available.
Evaporation rate : 0.0015 (butyl acetate = 1)
Vapor pressure : 4.4 kPa (33.33 mm Hg) [room temperature]
Vapor density : Not available.
Relative density : 0.87
Density (lbs / gal) : 7.26
Solubility : Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water : Not available.
Viscosity : Kinematic (40°C (104°F)): <0.14 cm²/s (<14 cSt)
Volatility : 64% (v/v), 57.785% (w/w)
% Solid. (w/w) : 42.215

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

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Section 10. Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), medium aliph.	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-butanone oxime	LD50 Oral	Rat	930 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity


Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects


Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
 Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)

Target organs : Contains material which causes damage to the following organs: brain, skin.
 Contains material which may cause damage to the following organs: kidneys, central nervous system (CNS).

Aspiration hazard

Name	Result
 Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Skin contact : Adverse symptoms may include the following:
 irritation
 dryness
 cracking
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Ingestion : Adverse symptoms may include the following:
 nausea or vomiting
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Long term exposure

Potential immediate effects : There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIK240-077 PPG PROLUXE SRD WOOD FINISH TRANSPARENT MATTE EXTERIOR CEDAR CEDAR 077	N/A	2678.4	N/A	N/A	N/A
Solvent naphtha (petroleum), medium aliph.	N/A	2500	N/A	N/A	N/A
2-butanone oxime	930	1100	N/A	N/A	N/A

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Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-butanone oxime	0.63	5.01	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III

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14. Transport information

Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Solvent naphtha (petroleum), medium aliph.)	Not applicable.
Product RQ (lbs)	26098.8	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

Additional information

- DOT** : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not applicable.

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : ☒ All components are active or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : ☒ FLAMMABLE LIQUIDS - Category 3
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
ASPIRATION HAZARD - Category 1
HNOC - Defatting irritant

Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Classification
Solvent naphtha (petroleum), medium aliph.	≥50 - ≤73	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
2-butanone oxime	<1.0	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
calcium bis(2-ethylhexanoate)	<1.0	CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 * **Flammability** : 2 **Physical hazards** : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 2 **Flammability** : 2 **Instability** : 0**Date of previous issue** : 1/31/2020**Organization that prepared the MSDS** : EHS

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group

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Section 16. Other information

UN = United Nations

✔ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Outlast® Q⁸ Log Oil®

Oil-Based Wood Preservative

- **Semi-Transparent Preservative Stain for Logs, Siding, Decks, Wood Roofs**
- **End Cut Solution—Field Cut Treatment and Stain for Pressure-Treated DECKS**

- VOC Compliant in all 50 states
- Stops wood rot, mold, termites, and powder post beetles
- Repels water with one-coat coverage
- Soap & water clean-up
- Available in various colors
- Freeze/Thaw stable: Extended shelf life
- EPA Registered all 50 states

Outlast® Q⁸ Log Oil is an EPA-registered exterior wood preservative specifically designed to control decay-causing organisms (mold, termites, powder post beetles) in log homes, on wood products, and as an End Cut Solution for pressure-treated wood. It provides unsurpassed water repellency and color with one-coat coverage. Q⁸ Log Oil is a totally non-film forming exterior treatment that does not crack or peel. The trans-oxide pigment system provides excellent UV control that operates like a sunscreen to slow down graying of the wood and provide fade-resistant color. The solution soaks into the wood to provide protection, not just on the surface, but also deep into the wood cell structure.

For Protecting Logs and Deck Surfaces

Surface Preparation: The log or wood surface must be porous. Remove mill glaze, dirt, mildew, or any film coatings before application. One quart of CTA's KleenStart granules diluted in 5 gallons of warm water will clean and brighten in one step. Rinse thoroughly and allow to dry before application of Q⁸ Log Oil. A power washer at low pressure is an appropriate and time-saving tool for wood surface preparation. Avoid sanding. If sanding was required to remove a

coating, re-open the pores of the wood with a chemical or detergent cleaner (KleenStart), thoroughly rinse, and allow to dry as much as is possible (3-5 dry days) before application of Q⁸ Log Oil.

The absorption of Log Q⁸ Oil is directly related to the porosity of the wood, and more absorption of oil results in better and longer lasting treatment. Because of this, new unseasoned wood will require more frequent applications than older dryer wood.

Insect Protection

Outlast® Q⁸ Log Oil is an EPA-registered wood preservative containing copper 8 quinolinolate. (a/k/a Oxine Copper) Copper 8 has very low mammalian toxicity and has been approved for use on wood that comes into incidental contact with food such as picnic tables, produce bins, etc. Copper 8 is toxic, however, to a broad range of wood-eating insects. Termites and powder post beetles, for instance, are killed by ingesting wood treated with copper 8 quinolinolate. Some insects bore and/or nest in wood, but do not ingest it. Outlast® NBS 30® may provide protection from this type of insect. Check it out at www.OutlastCTA.com under Additives.

Active Ingredient:

Copper 8-quinolinolate 0.675%

Other Ingredients* 99.325%

Total 100%

* Contains petroleum distillates and metallic equivalent of copper.

EPA Reg. No. 81819-1



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www.OutlastProducts.com • 662-536-1446

Before you start: Test the color first. Curing and full color appearance can take approx. 2 weeks. Outlast® Q⁸ Log Oil goes on dark and lightens significantly as it cures. Be aware that when Outlast® Q⁸ Log Oil is applied and has soaked into the wood, it is permanent in the wood. The surfaces will need to be refreshed for color and water repellency, but the product inside cannot be removed. If you want to change the color, be advised that solid colors are not possible in this system. Semi-transparent shades are the only choices available. If you wish to change the shade, you can remove it from the surface by power-washing, then re-apply a different semi-transparent shade of Q⁸ Log Oil after the initial curing process. Always “box” (blend) containers from different lot numbers.

Spray, brush, or roll: Stir product well before use and stir occasionally during application to keep pigments suspended. If pigment is difficult to get off the bottom, empty the pail as best you can into a second container. Stir in a few ounces of mineral spirits into the pigment settled in the bottom until dissolved. Shake well—add back to the “batch” and stir again. Begin at the bottom of a sidewall application and work upwards to ensure even saturation. The fastest, easiest delivery method is by use of a pump-up type sprayer with a plastic or non-corrosive tip. (Brass tip is NOT recommended.) Airless spray applicators are not recommended due to excessive atomization and subsequent product loss. (Professionals may have airless electrical equipment delivering low-pressure spray, but do-it-yourselfers will have better results with the pump-up applicator.) Apply as much liquid as the wood will absorb. It is not necessary to “keep a wet edge” or to apply multiple coats or wet-on-wet coats. It is not necessary to clean out equipment until the job is finished, even if the job takes a week or more to complete! When ready to do so, equipment can be cleaned with laundry detergent and water or mineral spirits if desired.

Weather conditions: Q⁸ Log Oil can be applied during a wide range of weather conditions. Wet or cold logs/wood will not absorb as much product as dry/warm ones. Below 50F, Q⁸ Log Oil will become too thick to pump through a pump sprayer and may require hand brushing. Streaking of pigment may result if wood is exposed to rain within 36 hours of treatment. Simply re-spray the surface with more product, let it sit for 15 minutes, and smooth out any streaks with a stiff paintbrush.

12-2019

Coverage & longevity: Apply to cover 125-175 square feet per gallon. Under-application is far and away the primary cause of short treatment life. However, only one coat at a time is recommended. The water repellency in Outlast® Q⁸ Log Oil builds quickly making it unfeasible to multi-coat until a period of time has elapsed. (It becomes so water repellent, it repels itself.) Generally, it is recommended that vertical surfaces be re-treated within 24 months of the initial application. Additional applications should be applied as needed, usually every 4-8 years. Horizontal surfaces should be re-treated every other year or annually if needed.

For Protecting End Cuts & Deck Walk Surfaces

Outlast® Q⁸ Log Oil is formulated for the coating of freshly sawn ends of pressure-treated wood products. Its use validates the warranty on Wolmanized® and Outdoor® wood and is specified by AWWA for all brands of PT wood end cuts and fastener holes in above ground residential applications.

The best results will be obtained if wood to be treated is immersed for 3 minutes or longer. If dipping is not possible, apply by brush, roller, or spray to the point of refusal. Make certain all areas are fully treated to get maximum benefits. Q⁸ Log Oil can be used to stain entire decks. No waiting time is needed between construction and staining.. If a different paint or stain is used over Q⁸ Log Oil end-cut treatment, apply after the curing period & test for compatibility.

Precautions

Do not OVER apply Outlast® Q⁸ Log Oil to horizontal walking surfaces. Mop up any unabsorbed material after 15 minutes. Treated surfaces can be slippery initially; avoid heavy traffic until the product has cured.

Do not spray Outlast® Q⁸ Log Oil on asphalt shingles and driveways because it will soften asphalt on contact. Over spray or spills should be cleaned IMMEDIATELY with large volumes of a suitable detergent/water. Review the safety precautions on the label carefully before opening the container.

Safety Data Sheet

Issue Date: 01-Mar-2011

Revision Date: 01-Jun-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Outlast Q8 Log Oil (Clear)

Other means of identification

SDS # CTA-006

Recommended use of the chemical and restrictions on use

Recommended Use EPA registered wood preservative.

Details of the supplier of the safety data sheet

Supplier Address

CTA Products Group
1899 Kings Castle Drive
Southaven, MS 38671
www.OutlastCTA.com

Emergency Telephone Number

Company Phone Number Phone: 901-647-6909
Fax: 662-349-2286
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Please see Section 15 for additional EPA information.

Appearance Clear, slightly viscous liquid

Physical State Liquid

Odor Mild petrochemical odor

Classification

Aspiration toxicity

Category 1

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin

Signal Word

Danger

Hazard Statements

May be fatal if swallowed and enters airways



Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

13.4% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum Distillates, Hydrotreated light	64742-47-8	Proprietary
Oxine Copper	10380-28-6	Proprietary
Paraffin Emulsion	8002-74-2	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash off immediately with plenty of water. Take off contaminated clothing and wash it before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. If skin irritation persists, call a physician.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. Immediately call a poison center or doctor/physician.
Ingestion	Do not induce vomiting. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open airway & prevent aspiration. Get immediate medical attention.

Most important symptoms and effects

Symptoms	Exposed individuals may experience eye tearing, redness and discomfort. May cause skin irritation. Inhalation may cause irritation of respiratory tract. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness. Prolonged or repeated exposure by inhalation or ingestion may affect behavior/central nervous system. Skin contact may aggravate an existing dermatitis. Conjunctivitis. May cause nausea, vomiting and/or diarrhea if ingested.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Foam. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Burning will produce toxic fumes and gases.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. Ventilate affected area. Remove all sources of ignition.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	For small spills: recover any free liquid and pick up the remainder with granular clay or sand For large spills: eliminate any sources of ignition and dike the area to contain the spill. Recover as much liquid as possible by use of an explosion-proof sump pump or other similar means. Reuse as much material as possible. Pick up the remainder using granular clay or sand.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store at temperatures above 120°F. Drum is not a pressure vessel; never use pressure to empty. Shelf life: Indefinite if kept dry and store in unopened containers at recommended temperatures. Store locked up.
Incompatible Materials	Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Oxine Copper 10380-28-6	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Paraffin Emulsion 8002-74-2	TWA: 2 mg/m ³ fume	(vacated) TWA: 2 mg/m ³	TWA: 2 mg/m ³ fume

Appropriate engineering controls

Engineering Controls Local exhaust is suggested for use, where possible, in enclosed or confined spaces. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Goggles and face shield as needed to prevent eye and face contact.

Skin and Body Protection Rubber or neoprene gloves. Boots and aprons as needed for protection against spills and/or splashes.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild petrochemical odor
Appearance	Clear, slightly viscous liquid	Odor Threshold	Not determined
Color	Clear		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	Not determined		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	154 °C / 310 °F		
Flash Point	> 121 °C / >250 °F		
Evaporation Rate	< 1	Pensky-Martens Closed Cup (PMCC) (butyl acetate = 1)	
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	Unknown		
Lower Flammability Limit	Unknown		
Vapor Pressure	<1 mmHg		
Vapor Density	Unknown		
Specific Gravity	0.895	(1=Water)	
Water Solubility	Insoluble in water		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
VOC Content	<250 gm/L		
Density	6.972 lb/gal		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Avoid contact with eyes.

Skin Contact

May be harmful in contact with skin.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Potential for aspiration if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum Distillates, Hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Oxine Copper 10380-28-6	= 9930 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
Paraffin Emulsion 8002-74-2	> 3750 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Oxine Copper 10380-28-6		Group 3		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Aspiration hazard

May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity

13.4% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

22.4% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum Distillates, Hydrotreated light 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Oxine Copper 10380-28-6	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION**International Inventories**

Not determined

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Oxine Copper - 10380-28-6	10380-28-6	Proprietary	1.0

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Oxine Copper 10380-28-6 (Proprietary)		X		

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Oxine Copper 10380-28-6	X		X
Paraffin Emulsion 8002-74-2	X	X	X

EPA Pesticide Registration Number 81819-1

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

CAUTION: Causes moderate eye irritation. Harmful if inhaled, swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Danger
Acute Toxicity- Inhalation	Harmful if inhaled	n/a
Acute Toxicity- Oral	Harmful if swallowed	n/a
Acute Toxicity- Dermal	Harmful if absorbed through the skin	May be harmful in contact with skin
Aspiration Toxicity	Vomiting may cause aspiration pneumonia	May be fatal if swallowed and enters airways

16. OTHER INFORMATION**NFPA****Health Hazards**

2

Flammability

0

Instability

0

Special Hazards

None

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

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24-Jan-2014

Revision Note:

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet