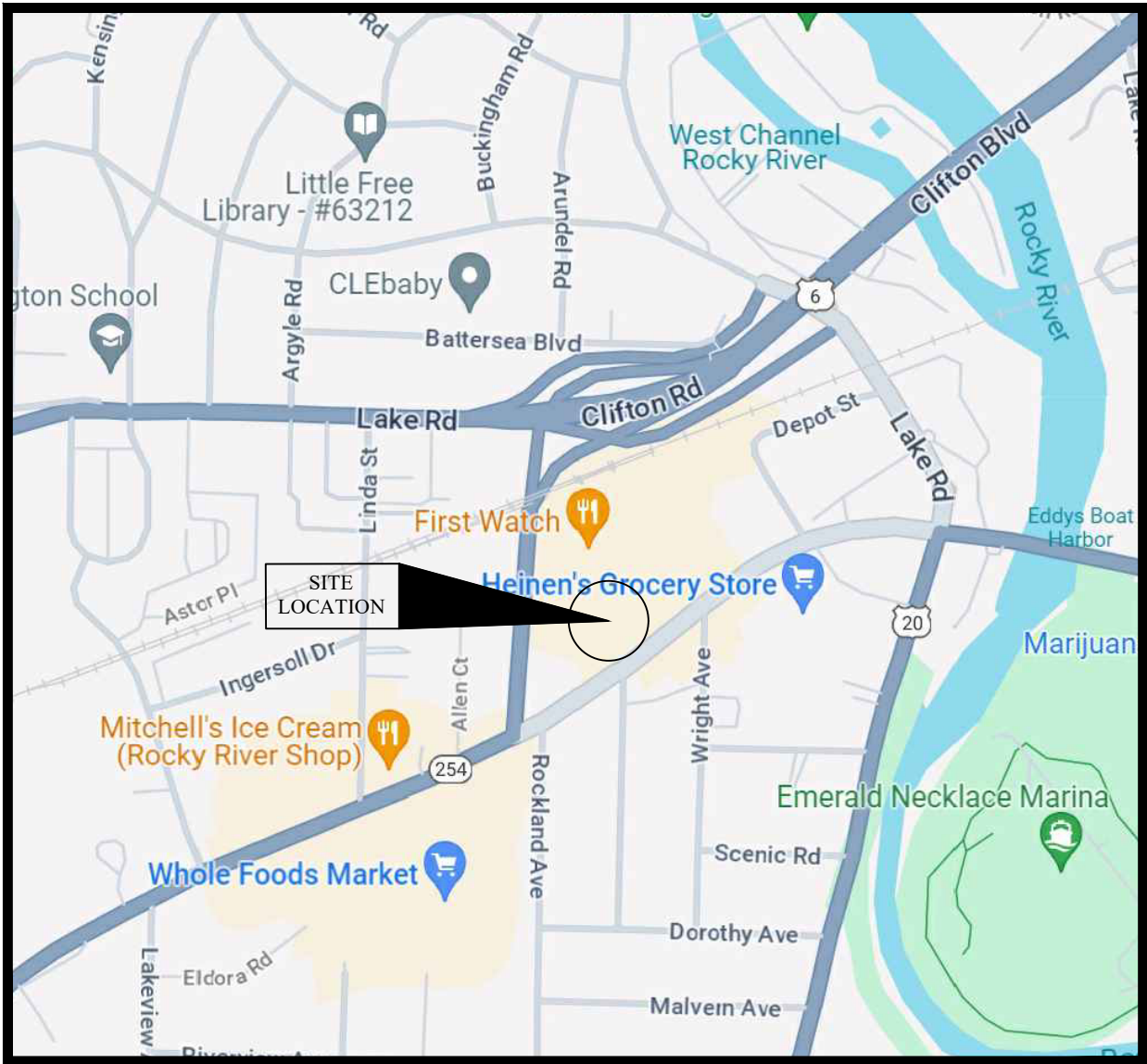


JAN DELL REDEVELOPMENT

CITY OF ROCKY RIVER
COUNTY OF CUYAHOGA
STATE OF OHIO



VICINITY MAP
NO SCALE

APPROVALS - CITY OF ROCKY RIVER

THE APPROVAL SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND LOCATION OF THE PROPOSED IMPROVEMENTS. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND CERTIFIED THESE PLANS.

05-19-2023
DATE:

HORIZONTAL & VERTICAL DATUM

HORIZONTAL BASIS OF BEARING:
BEARINGS ARE REFERENCED TO GRID NORTH OF THE OHIO STATE PLANE COORDINATESYSTEM NORTH ZONE, NAD 83 DATUM.

VERTICAL DATUM:
ELEVATIONS ARE REFERENCED TO NAVD 88 VERTICAL DATUM.

BOTH DATUMS WERE ESTABLISHED USING GPS EQUIPMENT CONNECTED TO THE ODOT VRS RTK NETWORK.

DESCRIPTION
TITLE SHEET
DEMOLITION PLAN
SITE PLAN
SITE LIGHTING PLAN
UTILITY PLAN
GRADING PLAN
SITE DETAILS
ABBREVIATED SWP ₃
ABBREVIATED SWP ₃ DETAILS

INDEX

SHEET NO.
C100
C101
C102
C102A
C103
C104
C105-C105B
C106
C107-C110

TITLE
SHEET

C100
Project No. 2023-326

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2555 Hartville Rd., Suite B

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www.WeberEngineeringServices.com

330-329-2037

matt@webercivil.com



Reg. No.: 61709

CLIENT:

WXZ

22720 Fairview Center Drive

SUITE 150

Fairview Park, Ohio 44126

Phone: (440) 801-1690

OWNER:

JRW/RR, LLC

22720 FAIRVIEW CENTER DR.

SUITE 150

Fairview Park, Ohio 44126

JAN DELL REDEVELOPMENT
SITE IMPROVEMENTS
19340 DETRIOT AVENUE ROCKY RIVER, OH

Issue Date

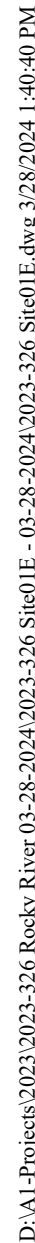
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03-07-2024

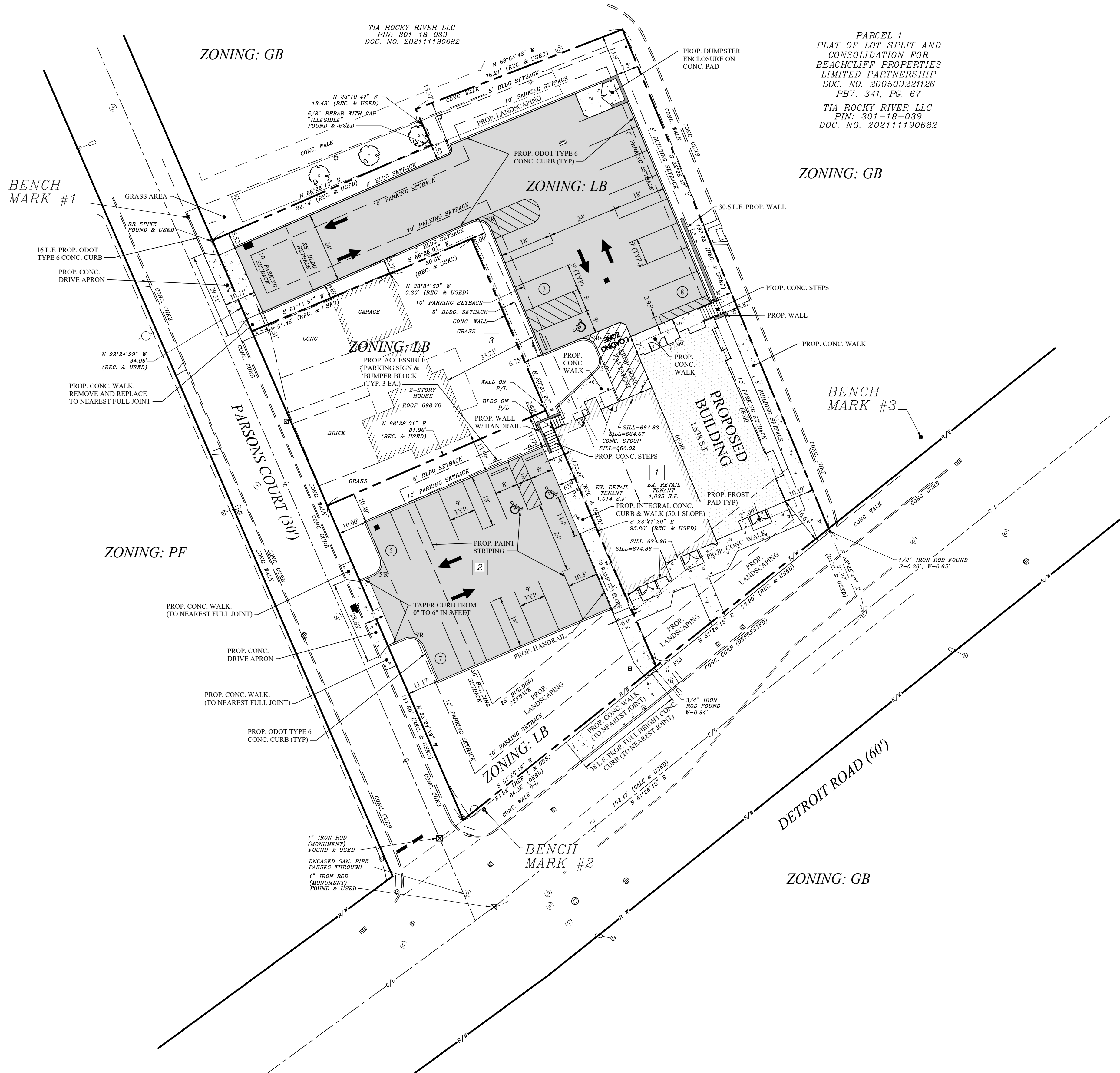
03-11-2024

03-27-2024

03-28-2024



C101
Project No. 2023-326



PARCEL 1
PLAT OF LOT SPLIT AND
CONSOLIDATION FOR
BEACHCLIFF PROPERTIES
LIMITED PARTNERSHIP
DOC. NO. 200509221126
PBV. 341, PG. 67
TIA ROCKY RIVER LLC
PIN: 301-18-039
DOC. NO. 202111190682

SITE BENCH MARK
BENCH MARK #1 MAG NAIL
ELEVATION = 662.65

SITE BENCH MARK
BENCH MARK #2 MAG NAIL
ELEVATION = 675.16

SITE BENCH MARK
BENCH MARK #3 MAG NAIL
ELEVATION = 674.55

SITE DATA

USE DISTRICT	= LB - LOCAL BUSINESS
SITE AREA	= 0.6042 AC. (TOTAL)
PROP. BUILDING AREA	= 1,880 S.F.
EX. BUILDING AREA	= 2,200 S.F.
TOTAL BUILDING AREA	= 4,080 S.F. (FOOTPRINT)

BUILDING SETBACKS:	
FRONT YARD	= 25' (FROM R/W)
SIDE YARD	= 5'
REAR YARD	= 5'

PARKING SETBACKS:	
FRONT YARD	= 10'
SIDE YARD	= 10'
REAR YARD	= 10'

NUMBER OF PARKING SPACES:	
REGULAR PARKING SPACES	= 23
HANDICAP PARKING SPACES	= 3
TOTAL PARKING SPACES	= 26

REQUIRED SPACES PER CODE = 24

FLOOD ZONE

FLOOD ZONE "X" PER FLOOD INSURANCE
RATE MAP NUMBER 39035C0152F
EFFECTIVE DATE AUGUST 15, 2019

LEGEND

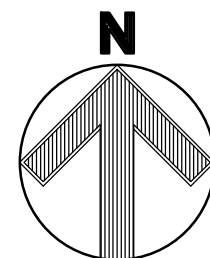
	REGULAR DUTY ASPHALT
	CONCRETE PAVING

ITALICS TEXT REPRESENTS EXISTING CONDITION
NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION

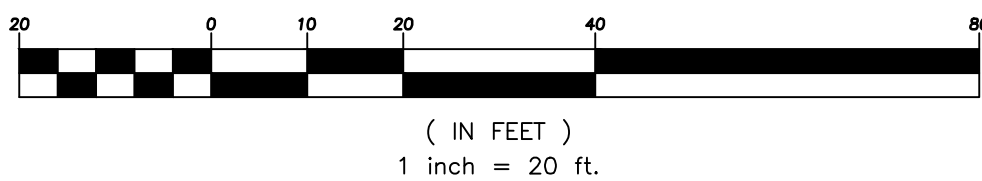
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JRW /RR LLC
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DOC. # 202310110090

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19364 DETROIT RD.
DOC. # 202311160090

3 PIN: 301-18-081
ANNA M. SMITH &
APRIL W. SAMPSON
1325 PARSONS CT.
DOC. # 200107250778



GRAPHIC SCALE



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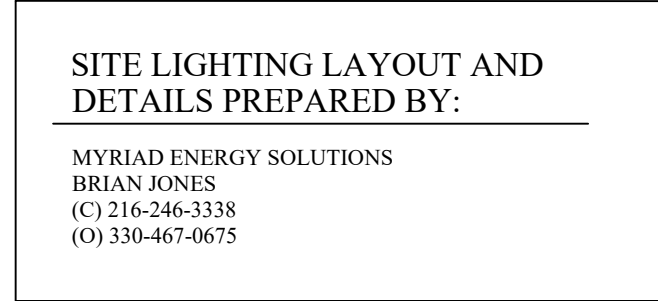
Issue Date

02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

SITE
PLAN

C102

Project No. 2023-326



1. FC LEVELS CALCULATED AT GROUND LEVEL
2. 18' POLES MOUNTED ON 24" POLE BASE
3. NO SPILL LIGHT ON BLDG. FIXTURES CALCULATED

C102A
Project No. 2023-326

Galaxy:
Polaris:

Model:

Year:

Size:

Mirada Small Wall Sconce Silicone (XWS SIL)

Outdoor LED Wall Light:

Overview	
Upper Protection Index	IP65 - IP68
Wavelength Range (nm)	18 - 65
Electrical Power (Watt)	10 - 100
Weight (kg)	10 (4.5)

QUICK LINKS

Ordering Code	Performance	Photometrics	Dimensions
---------------	-------------	--------------	------------

FEATURES & SPECIFICATIONS

- Construction
 - Rugged die-cast aluminum housing
 - Powder coated with UV resistant polyurethane powder coat finishing process.
 - The Durable from withstands extreme weather changes without cracking or peeling.
 - Another standard US finisher available.
 - Extended housing available with 1/2" threaded holes for power conduit and rebar.
 - Standard aluminum shipping weight: TBD in Caravan
 - Max. housing shipping weight: 12 lbs in Caravan (20 lbs w/eth option)

Optical System

- State-of-the-art one piece silicone optical system
- High quality LED lighting technology reducing system complexity and improving system reliability.
- Proprietary silicone reflector optics provide consistent coverage and uniformity in distribution types 2, 3, and 4.
- Customized material design: not yellow or crack with age and provides a typical light output of 100-3000 lux.
- Zero flicker.
- Available in 1000K, 4000K, and 5000K color temperatures per ANSI C78.372.
- 100% Dimmable with 0-10V or 1-10V

Electrical

- One-piece electrical feature: ensures waterproof, no leakage, and over temperature protection.

- 0-10V dimming (100% -100%) standard
- Standard Voltage Input (100-277 VAC) Input (50/60Hz) (UL listed) (UL listed) (UL listed)
- LED Color Temperature: 1000K-5000K
- Total harmonic distortion: THD <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F)
- Power Factor: PF> .95
- Input power drops control over life.
- Optional ROL surge protection device meets a minimum Category I, Class II, UL Listed per ANSI/IEEE C62.42.3.
- High-efficiency LED mounted to metal-core circuit board to maximize heat dissipation
- Driver: a fully enclosed in potting material for moisture resistance. Driver complies with FCC and CE standards. Cree driver and optical components
- Optional factory-installed power to the LED system, ensuring code compliance. A standard switch is available for use in the housing for ease of maintenance. Standard battery rated for 90°C with cold weather battery rated for 20°C to 35°C (68°F to 95°F) max for 100-377V only.

Controls

- Optional integral passive infrared (PIR) motion sensor. Features custom microprocessor and can be commissioned via ICR or Android configuration app.
- Optional remote control. Features on and off based on ambient light levels for use to dim lighting.

- L5's Ultra-Blue wireless control system supports both for fixture and motion sensor. Also includes remote sensing and wireless controls.

Installation

- Universal wall mounting brackets mounts directly to vertical surface of 4" junction box (octagonal or square).
- Luminaire hangs from the top of the mounting plate and is secured via two screws.
- Flush-mount design that helps to conceal the hardware and prevent over lighting during installation.

Warranty

- L5 Luminaire carry a 5-year limited warranty. Refer to <https://www.l5light.com/usa/usa-warranty> for more information.

Listings

- Listed to UL 1598 and UL 8750
- Meets Bay Area Act requirements.
- ICA compliant, with 3000K color temperature selection.
- Type II Compliant, see full brochure for qualification information.
- Listed for wet locations.
- IES listed luminaire per IES E-60964.1
- IES listed luminaire per IES E-6262 technical report code.
- DesignLight Consortium (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified.
- Features that meet the DLC-Qualified Product list. Visit www.designlightconsortium.org to confirm which versions are qualified.

L5 Industries Inc. 10000 Ruffalo Rd. Channahon, IL 61614 • (815) 373-2200 • info@l5light.com
 10000 Ruffalo Rd. • 815-373-2200 • www.l5light.com • sales@l5light.com • www.l5light.com

Page 1 of 10 (06/2018)
 PWS-010-00-0003

Guardian

Architectural Outdoor

Guardian gracefully assumes its role as an indispensable outdoor wall sconce, catering to a myriad of settings. Perfectly designed for multifamily entryways, its radiant glow welcomes residents and guests alike. Its versatile nature also finds a home at strip malls, shopping centers, and office buildings, flanking from doors to provide a symmetrical and elegant luminance. Beyond these, healthcare facilities and hospitality venues benefit from Guardian's harmonious blend of form and function. In every application, it offers a consistent promise of reliability, aesthetics, and a warm, inviting ambience.

LED Engine

Color Temp (CCT): 3000K, 3500K, 4000K
CR: 80+ (consult factory for 90+)
Life Expectancy: L70 rated at 50,000+ hours
Dimming: 3-way Macadam
Output: Min 1739 Source Lumens
 Max 10437 Source Lumens

Driver

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

Certifications

Location Listing: Wet Listed for Wall Mounting
Other: ADA Compliant
 Buy America Compliant

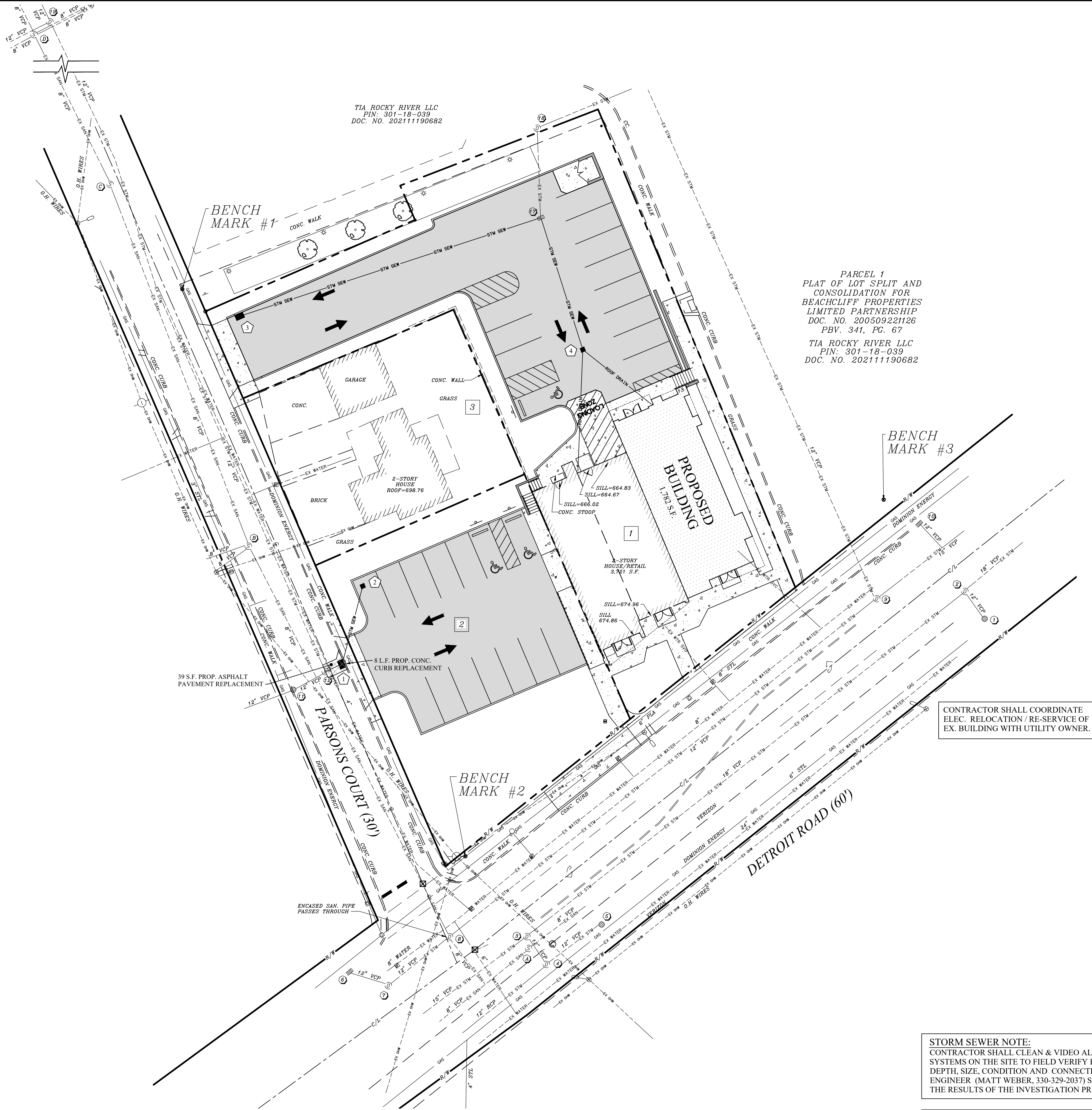
Dimensions

The diagram illustrates the dimensions of the Guardian Architectural Outdoor light fixture in three views: side, front, and top/bottom view. The side view shows a height of 8 7/8" and a depth of 50". The front view shows a height of 8 7/8" and a width of 38". The top/bottom view shows a width of 8 7/8" and a depth of 4". The bottom view also shows a width of 16".

Construction

Mounting Pan: extruded aluminum. **End Caps:** die cast aluminum. **Diffuser:** extruded, high impact white luminous acrylic. **Finish:** high quality polyester powder coating, various finishes. **Hardware:** stainless steel. **Mounting:** wall-mounted over a 4-inch junction box.

NOT TO SCALE



PARCEL 1
PLAT OF LOT SPLIT AND
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LIMITED PARTNERSHIP
DOC. NO. 200509221126
PBV. 341, PG. 67
TIA ROCKY RIVER LLC
PIN: 301-18-039
DOC. NO. 202111190682

CONTRACTOR SHALL COORDINATE
ELEC. RELOCATION / RE-SERVICE OF
EX. BUILDING WITH UTILITY OWNER.

STORM SEWER NOTE:
CONTRACTOR SHALL CLEAN & VIDEO ALL STORM SEWER
SYSTEMS ON THE SITE TO FIELD VERIFY EXACT LOCATION,
DEPTH, SIZE, CONDITION AND CONNECTIVITY. SITE CIVIL
ENGINEER (MATT WEBER, 330-329-2037) SHALL BE INFORMED OF
THE RESULTS OF THE INVESTIGATION PRIOR TO CONSTRUCTION.

SANITARY SEWER NOTE:
CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, DEPTH,
SIZE, CONDITION AND CONNECTIVITY OF ALL SANITARY SEWER
LATERALS ON THE SITE PRIOR TO CONSTRUCTION. MAINTAIN
CONNECTION TO 19350 DETROIT RD. AT ALL TIMES. SANITARY
LATERAL FOR THE PROPOSED BUILDING SHALL BE CONNECTED
INTERNALLY TO THE LATERAL FOR 19350 DETROIT RD.

UTILITY NOTE:
ALL EX. UTILITIES SERVICING THE BUILDING TO BE
DEMOLISHED SHALL BE REMOVED OR ABANDONED / CAPPED
AT THE R.O.W. OR RELATED SHUT-OFF VALVE.

SITE BENCH MARK
BENCH MARK #1 MAG NAIL
ELEVATION = 662.65

SITE BENCH MARK
BENCH MARK #2 MAG NAIL
ELEVATION = 675.16

SITE BENCH MARK
BENCH MARK #3 MAG NAIL
ELEVATION = 674.55

EX. STORM STRUCTURE SCHEDULE

- EX. CATCH BASIN
TOP 675.91
INV. 670.71, 12" NW
INV. 667.33, 12" SW
- EX. STORM MANHOLE
TOP 674.48
INV. 667.59, 16" NE & SW
INV. 668.54, 12" SE
- EX. STORM MANHOLE
TOP 675.48
INV. 669.65, 16" SW
INV. 669.54, 18" NE
INV. 670.00, 12" SE
- EX. STORM MANHOLE
TOP 675.27
INV. 669.59, 12" SW
INV. 668.84, 12" NW
INV. 670.77, 12" NE
- EX. CATCH BASIN
TOP 674.80
INV. (U/A) 671.12, 12" SW
INV. 669.42, 12" NE
- EX. CURB INLET
TOP 674.70
INV. 672.16, 12" SE
- EX. STORM MANHOLE
TOP 675.44
(NOT ACCESSIBLE)
- EX. STORM MANHOLE
TOP 675.48
INV. 669.68, 12" SW
INV. 669.59, 12" NE
INV. 670.39, 8" SW & SE
- EX. STORM MANHOLE
TOP 674.58
INV. 668.68, 15" NE
INV. 668.56, 12" SW
INV. 670.06, 12" NW
- EX. CURB INLET
TOP 673.65
INV. 671.57, 12" SE

PROPOSED STORM STRUCTURE SCHEDULE

- PROP. CURB INLET
GUTTER 670.43
INV. 665.35, 12" NE & SW
- PROP. ODOT CB 2-2C
TOP 669.90
INV. 665.90, 12" SW
- PROP. CURB INLET
GUTTER 663.60
INV. 660.60, 12" E
- PROP. ODOT CB 2-2C
TOP 665.10
INV. 662.43, 8" SW & SE
INV. 662.10, 12" NW

FROM	TO	SIZE	SLOPE	TYPE	LENGTH
1	EX. 12	12"	1.00%	HDPE	6.69'
2	1	12"	1.91%	HDPE	29.07'
3	EX. 17	12"	0.58%	HDPE	113.89'
4	EX. 17	12"	4.34%	HDPE	49.72'

EX. SANITARY STRUCTURE SCHEDULE

- EX. SANITARY MANHOLE
TOP 675.41
INV. 666.57
(FLOWS EAST, NOT ACCESSIBLE)
- EX. SANITARY MANHOLE
TOP 667.36
INV. 666.83, 8" NW
INV. 657.10, 8" SE
INV. 657.03, 8" SW
INV. 659.35, 8" SW
- EX. SANITARY MANHOLE
TOP 660.57
(NOT ACCESSIBLE)
- EX. SANITARY MANHOLE
TOP 658.17
INV. 648.08, 8" NW
INV. 648.09, 8" SW
INV. 649.15, 8" SE
INV. 649.07, 8" NE

PROPOSED SANITARY STRUCTURE SCHEDULE

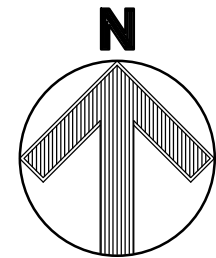
- PROP. SANITARY MH.
TOP ????.??
INV. ????.??, SIZE" DIRECTION

NOTE 1:

CONTRACTOR SHALL DEFLECT W.M. AS NECESSARY
TO MAINTAIN 18" MIN. VERTICAL CLEARANCE
BETWEEN W.M. & SAN. SEW. AND/OR STM. SEW. AT
ALL TIMES. (INSTALL BENDS WHERE NECESSARY)

ITALICS TEXT REPRESENTS EXISTING CONDITION
NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION

- PPN: 301-18-083
JR/W/RR LLC
19340 DETROIT RD.
DOC. # 202310110090
- PPN: 301-18-038
JR/W/RR LLC
19364 DETROIT RD.
DOC. # 202311160090
- PIN: 301-18-081
ANNA M. SMITH &
APRIL W. SAMPSON
1325 PARSONS CT.
DOC. # 200107250778



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



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Rookstown, OH 44272
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matt@webercivil.com



Reg. No.: 61709

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SUITE 150
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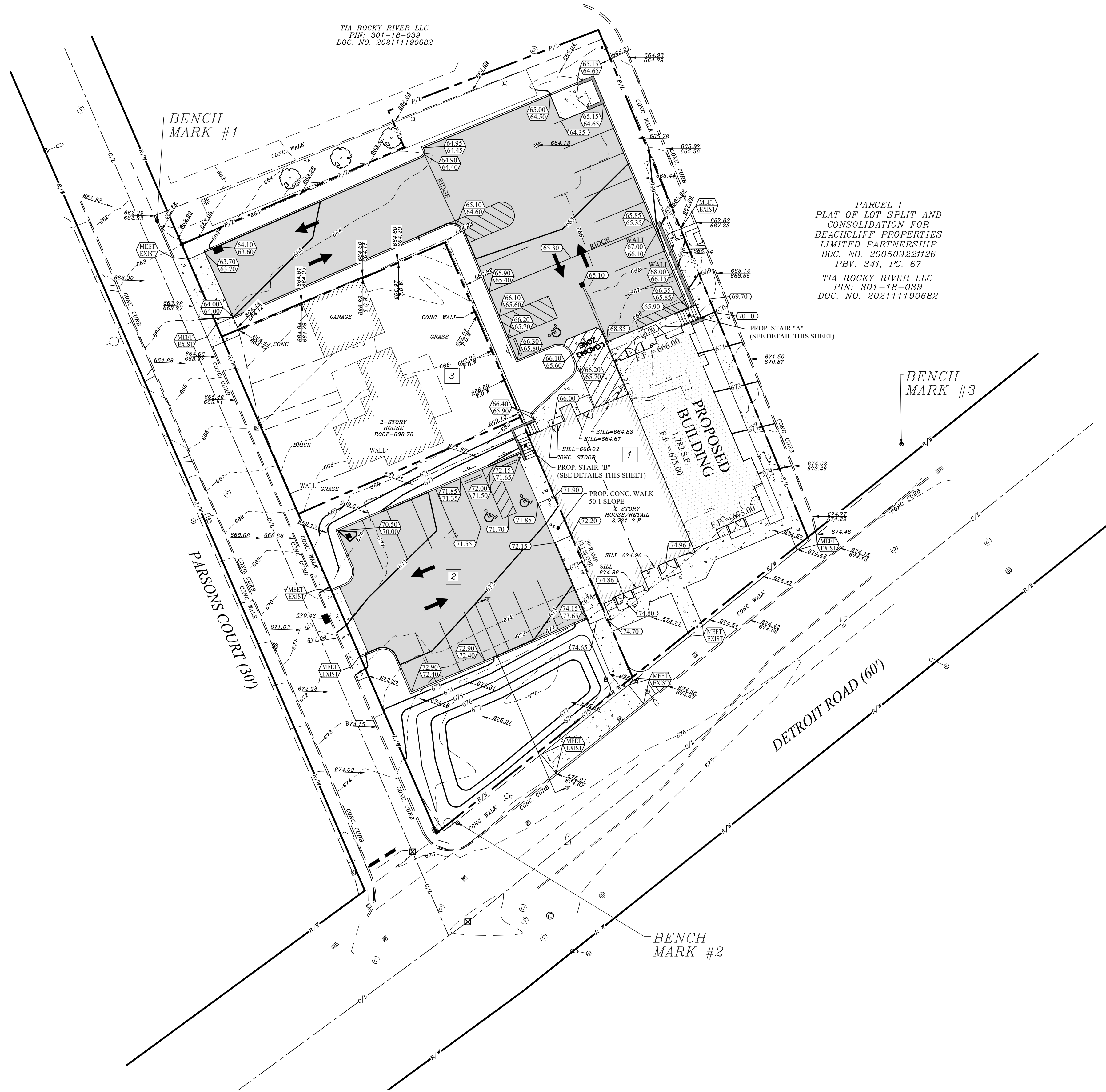
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03-07-2024
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UTILITY
PLAN

C103

Project No. 2023-326

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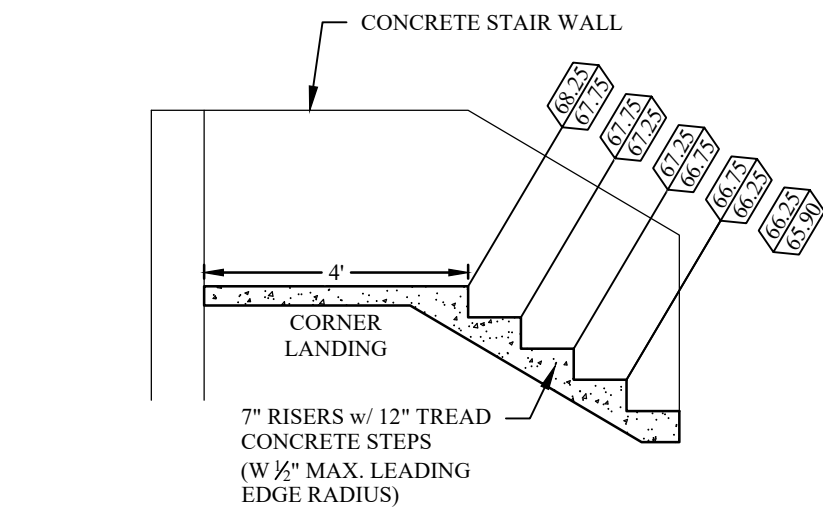
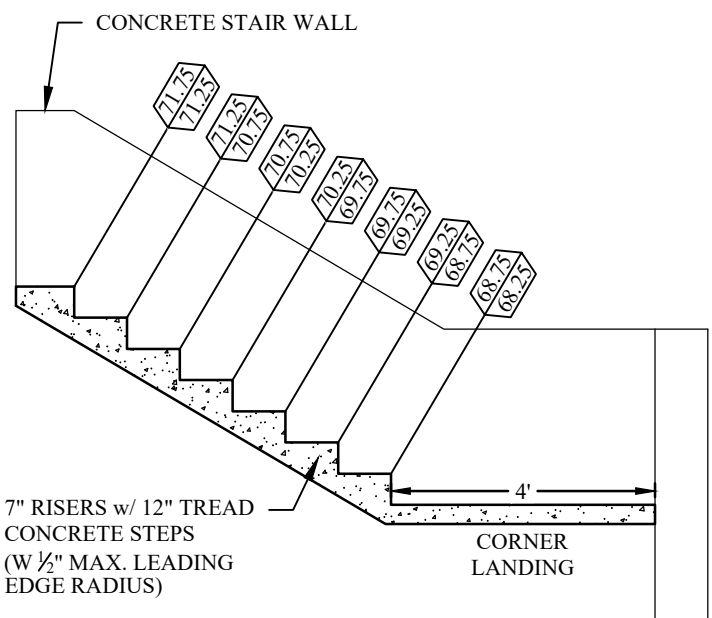


SITE BENCH MARK
BENCH MARK #1 MAG NAIL
ELEVATION = 662.65

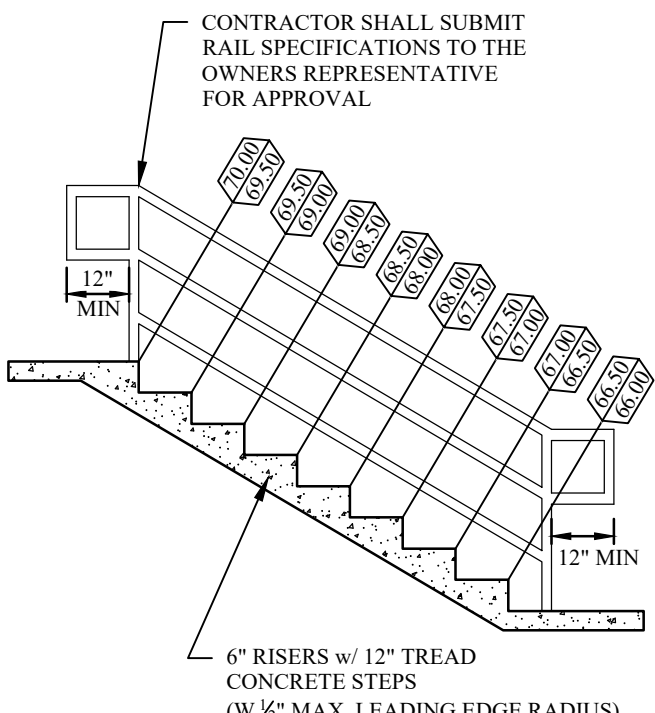
SITE BENCH MARK
BENCH MARK #2 MAG NAIL
ELEVATION = 675.16

SITE BENCH MARK
BENCH MARK #3 MAG NAIL
ELEVATION = 674.55

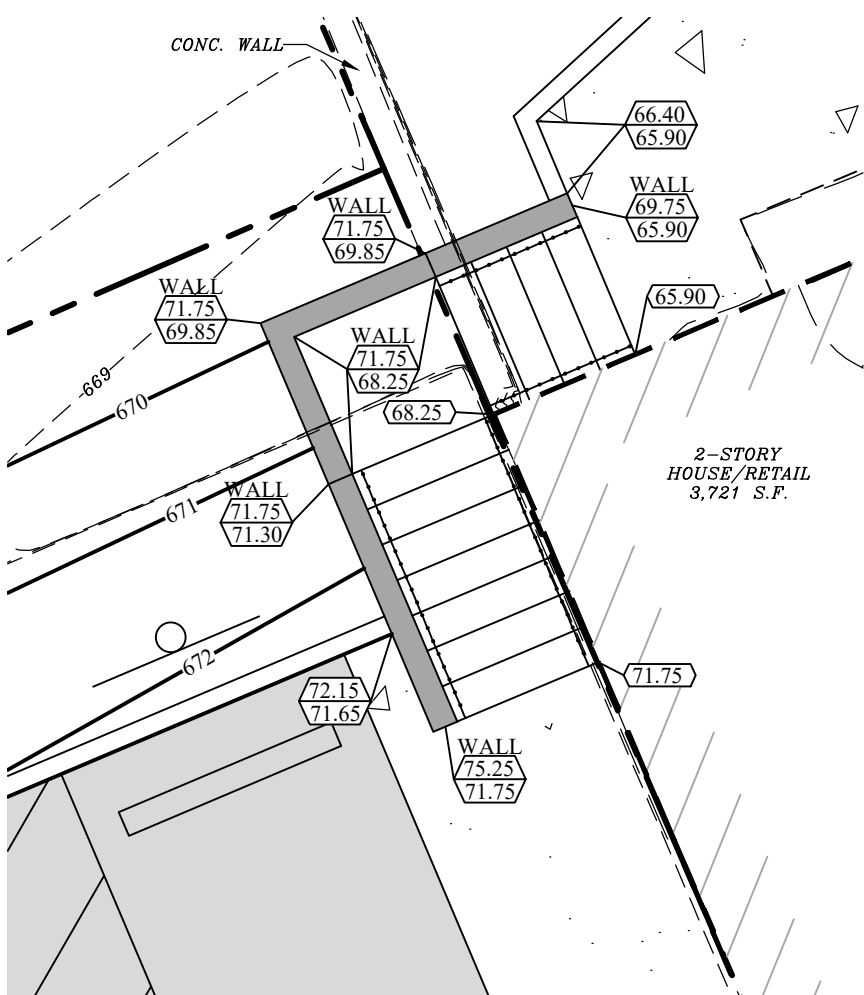
- LEGEND**
- ITALICS TEXT REPRESENTS EXISTING CONDITION
NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION
- PROPOSED SPOT GRADE
 - PROPOSED GRADE AT CURB
 - MEET EXISTING GRADE LABEL
 - EXISTING SPOT GRADE



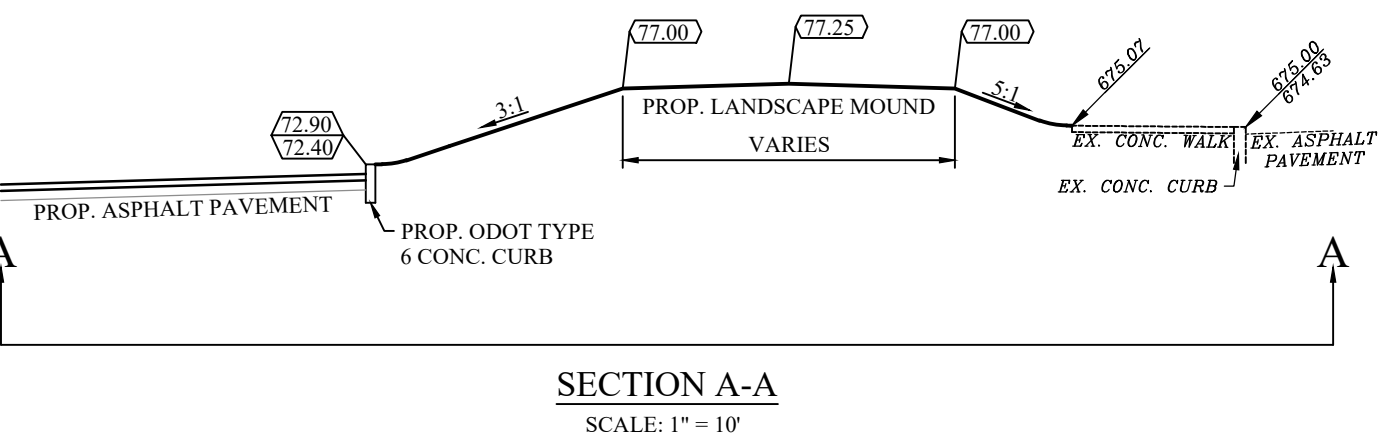
EXTERIOR CONCRETE STAIRWAY "B" DETAIL
GRADES ALONG BUILDING FACE
FOR GRADING REFERENCE ONLY
(SEE ARCH. PLANS FOR DETAILS)



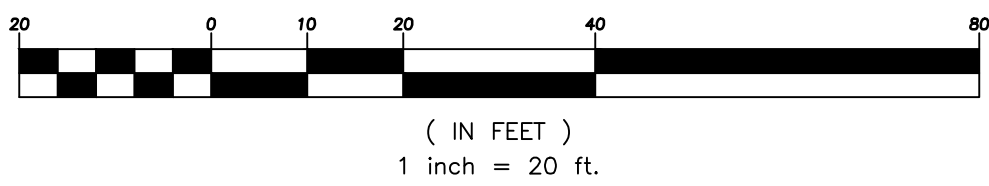
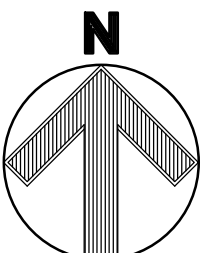
EXTERIOR CONCRETE STAIR "A" DETAIL
GRADES ALONG BUILDING FACE
FOR GRADING REFERENCE ONLY
(SEE ARCH. PLANS FOR DETAILS)



EXTERIOR CONCRETE STAIRWAY "B" PLAN DETAIL
SCALE: 1" = 5'



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STATE OF OHIO
MATTHEW
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61709
REGISTERED
PROFESSIONAL ENGINEER

Reg. No.: 61709

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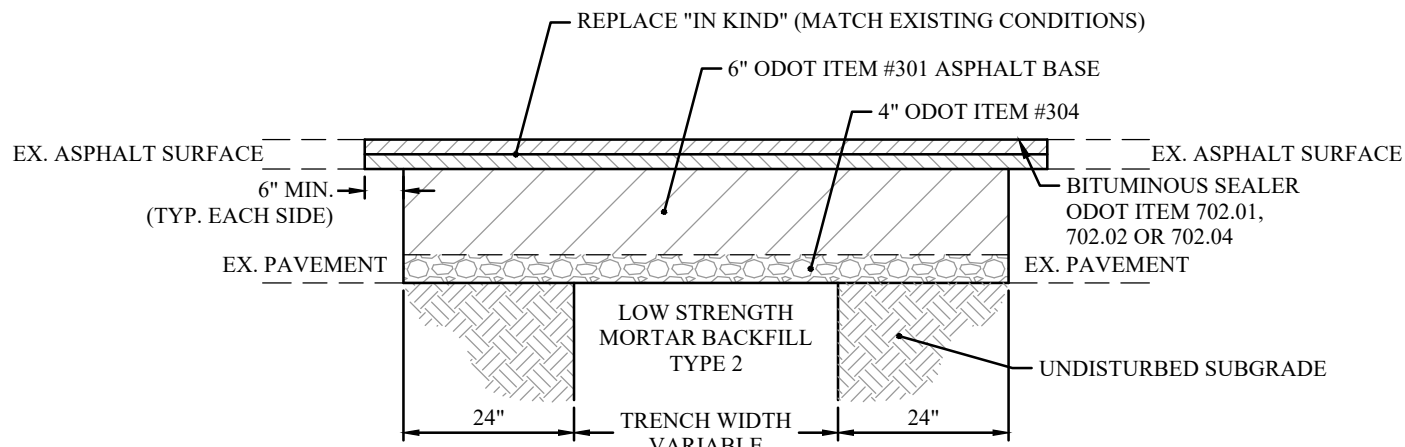
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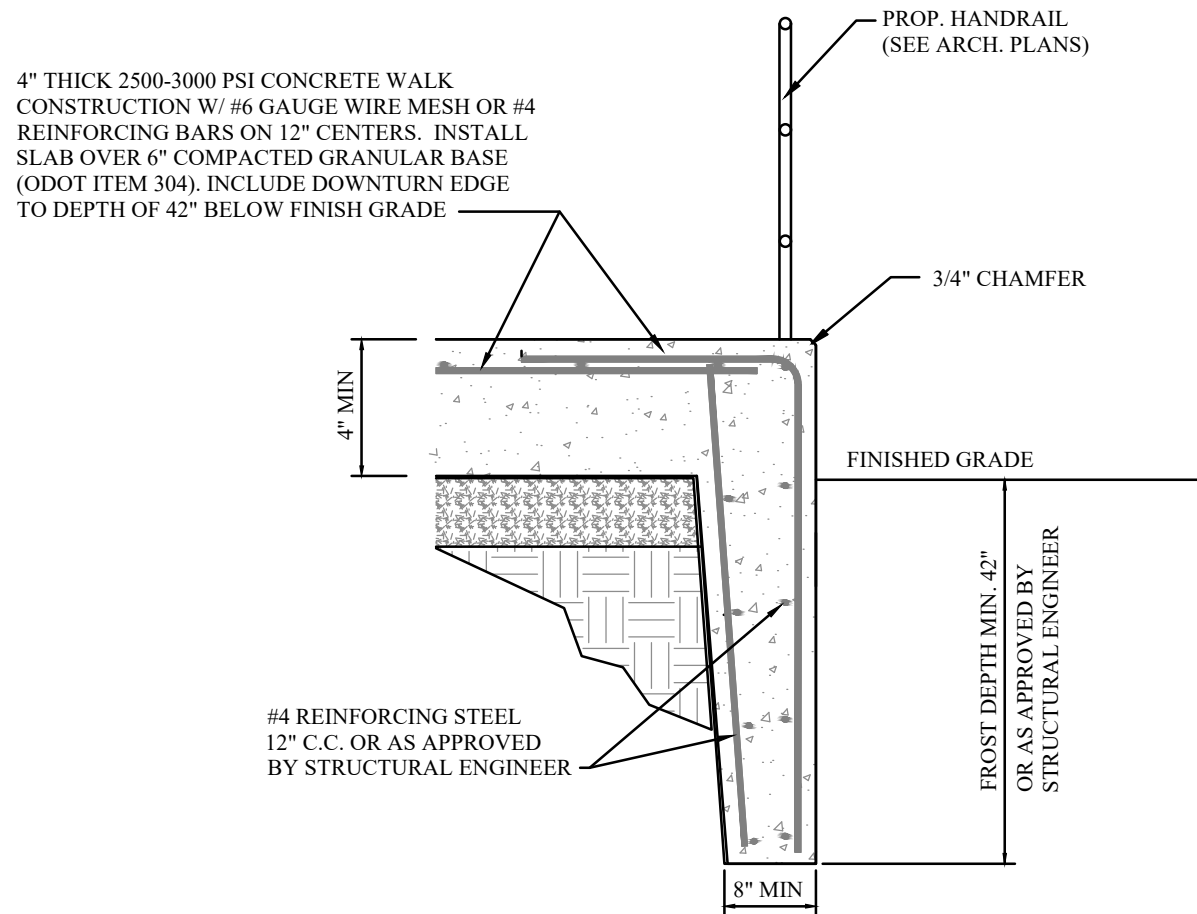
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GRADING
PLAN

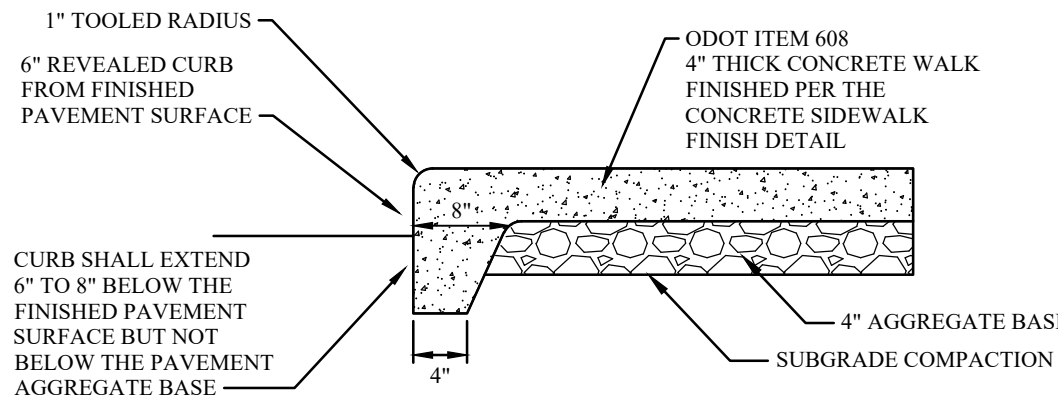
C104
Project No. 2023-326



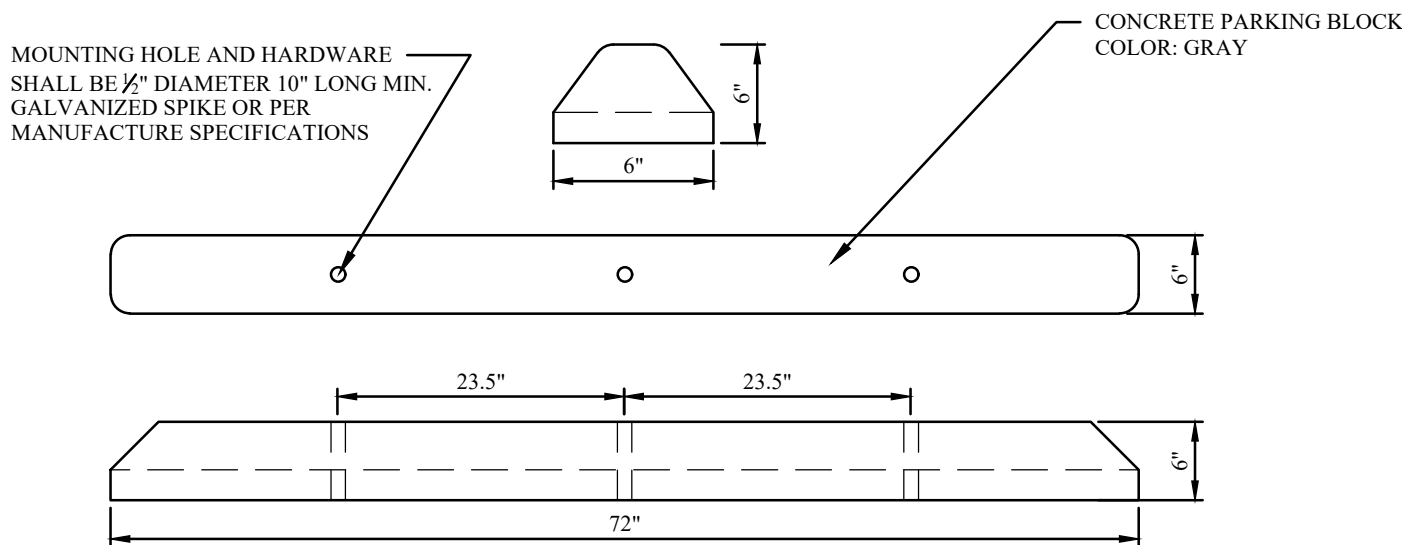
ASPHALT REPAVING OVER UTILITY TRENCH
REFERENCE ONLY NOT TO SCALE



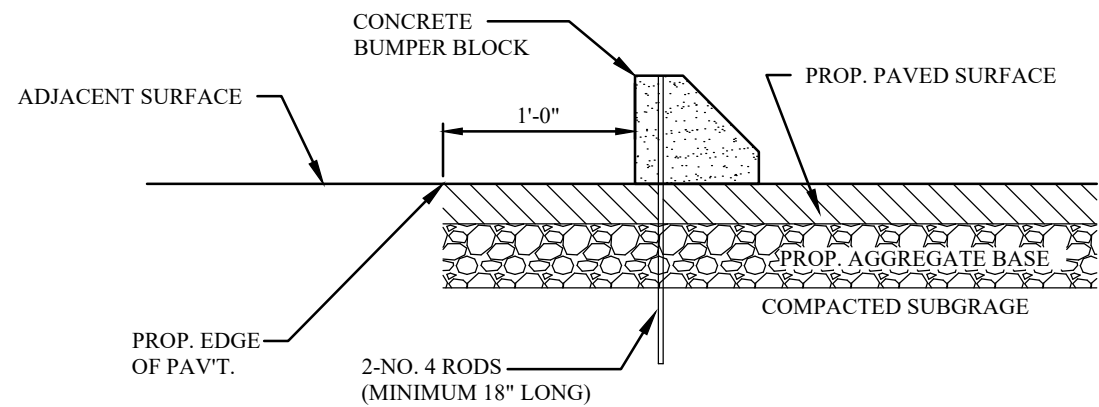
ELEVATED CONCRETE WALK W/ INTEGRAL SUPPORT WALL
REFERENCE ONLY NOT TO SCALE



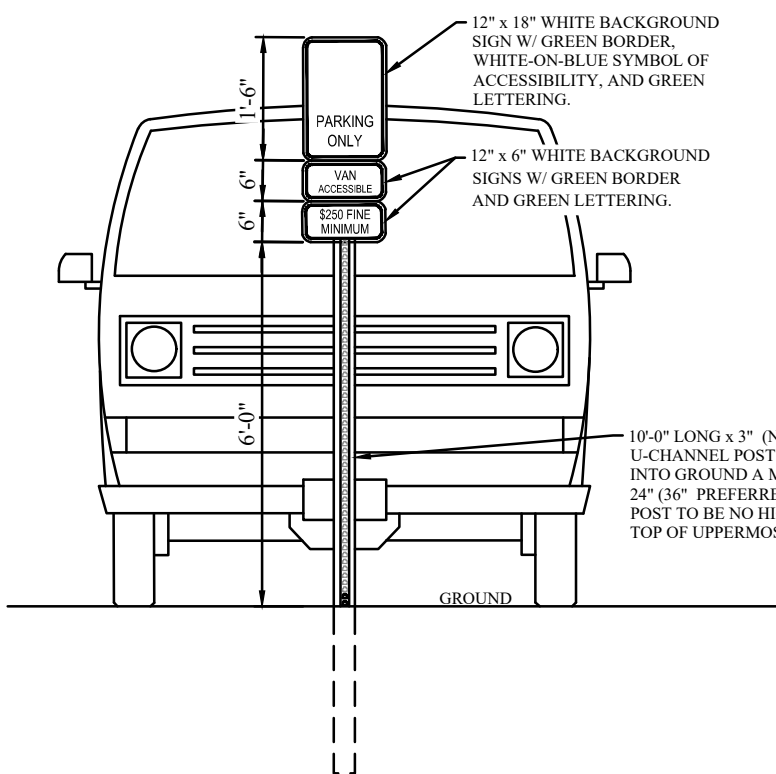
INTEGRAL CONCRETE CURB & WALK DETAIL (ON-SITE)
REFERENCE ONLY NOT TO SCALE



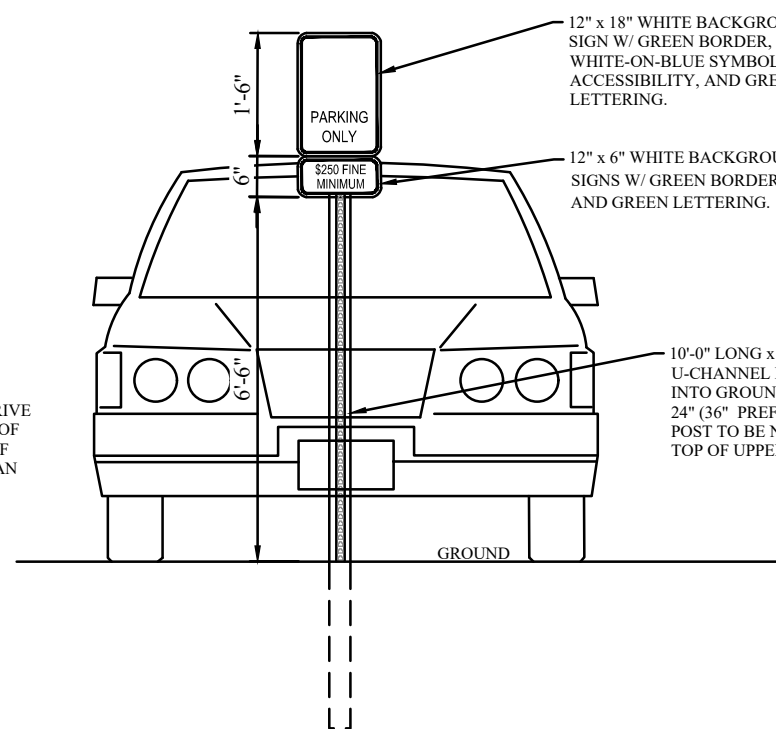
PROP. CONCRETE BUMPER BLOCK
REFERENCE ONLY NOT TO SCALE



BUMPER BLOCK DETAIL
REFERENCE ONLY NOT TO SCALE

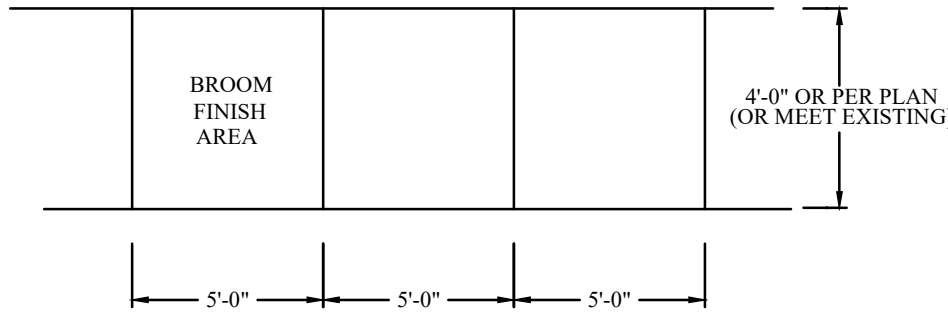


VAN ACCESSIBLE PARKING SPACE SIGN
NOT TO SCALE

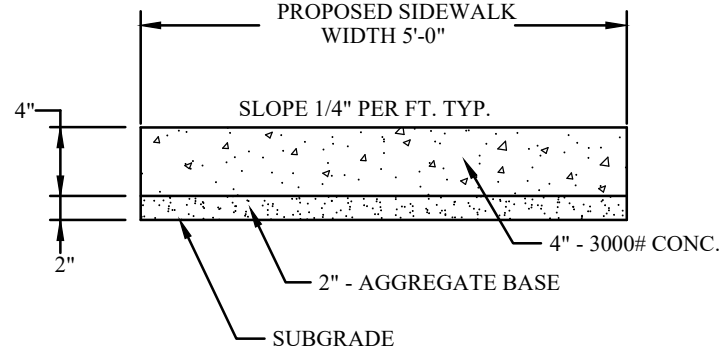


HANDICAPPED PARKING DETAIL
NOT TO SCALE

HANDICAPPED PARKING DETAIL
REFERENCE ONLY NOT TO SCALE

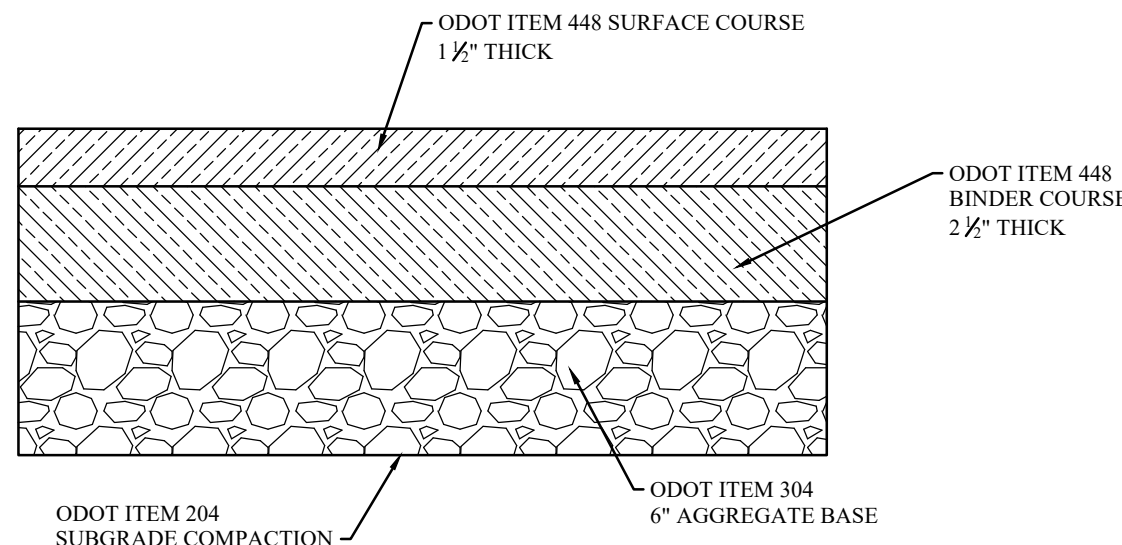


CONCRETE SIDEWALK FINISH AND JOINTS
REFERENCE ONLY NOT TO SCALE

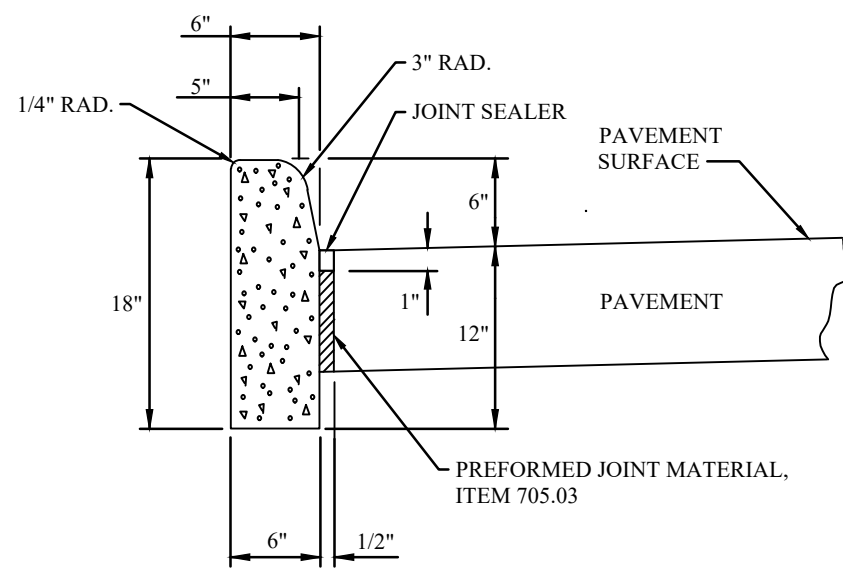


NOTE:
CRACK CONTROL SHALL BE AT FIFTEEN FOOT (15') INTERVALS AND SCORE MARKS SHALL BE AT FIVE FOOT (5') INTERVALS. CONSTRUCTION SHALL BE IN ACCORDANCE WITH O.D.O.T. ITEM 608. PRIOR TO THE START OF SIDEWALK CONSTRUCTION THE SUBGRADE MUST BE INSPECTED AND APPROVED BY THE OWNERS REPRESENTATIVE. ANY SETTLEMENT OR DEFICIENT AREAS IDENTIFIED BY THE OWNERS REPRESENTATIVE SHALL BE REPAIRED BY A METHOD ACCEPTABLE TO THE OWNER. THE REPAIRED AREAS WILL BE SUBJECT TO COMPACTION TESTING AND APPROVAL BY THE OWNER PRIOR TO THE START OF SIDEWALK CONSTRUCTION.

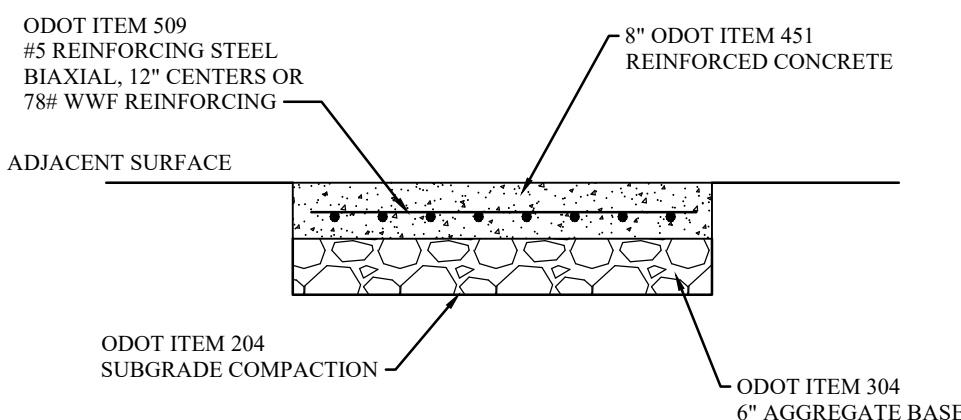
CONCRETE SIDEWALK
REFERENCE ONLY NOT TO SCALE



PROP. REGULAR DUTY ASPHALT PAVEMENT
REFERENCE ONLY NOT TO SCALE
(CONTRACTOR SHALL VERIFY WITH CURRENT GEOTECHNICAL REPORT PROVIDED BY OWNER)



ODOT TYPE 6 CONCRETE CURB
REFERENCE ONLY NOT TO SCALE



CONCRETE DRIVE APRON & CONCRETE PAVEMENT DETAIL
REFERENCE ONLY NOT TO SCALE

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330-329-2037
matt@webercivil.com



Reg. No.: 61709

CLIENT:
WXZ
22720 Fairview Center Drive
SUITE 150
Fairview Park, Ohio 44126
Phone: (440) 801-1690

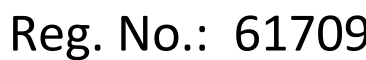
OWNER:
JRW/RR, LLC
22720 FAIRVIEW CENTER DR.
SUITE 150
Fairview Park, Ohio 44126

JAN DELL REDEVELOPMENT
SITE IMPROVEMENTS
19340 DETRIOT AVENUE ROCKY RIVER, OH

Issue Date
02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

SITE DETAILS

C105
Project No. 2023-326



WXZ

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SUITE 150
Fairview Park, Ohio 44126
Phone: (440) 801-1690

JRW/RR, LLC

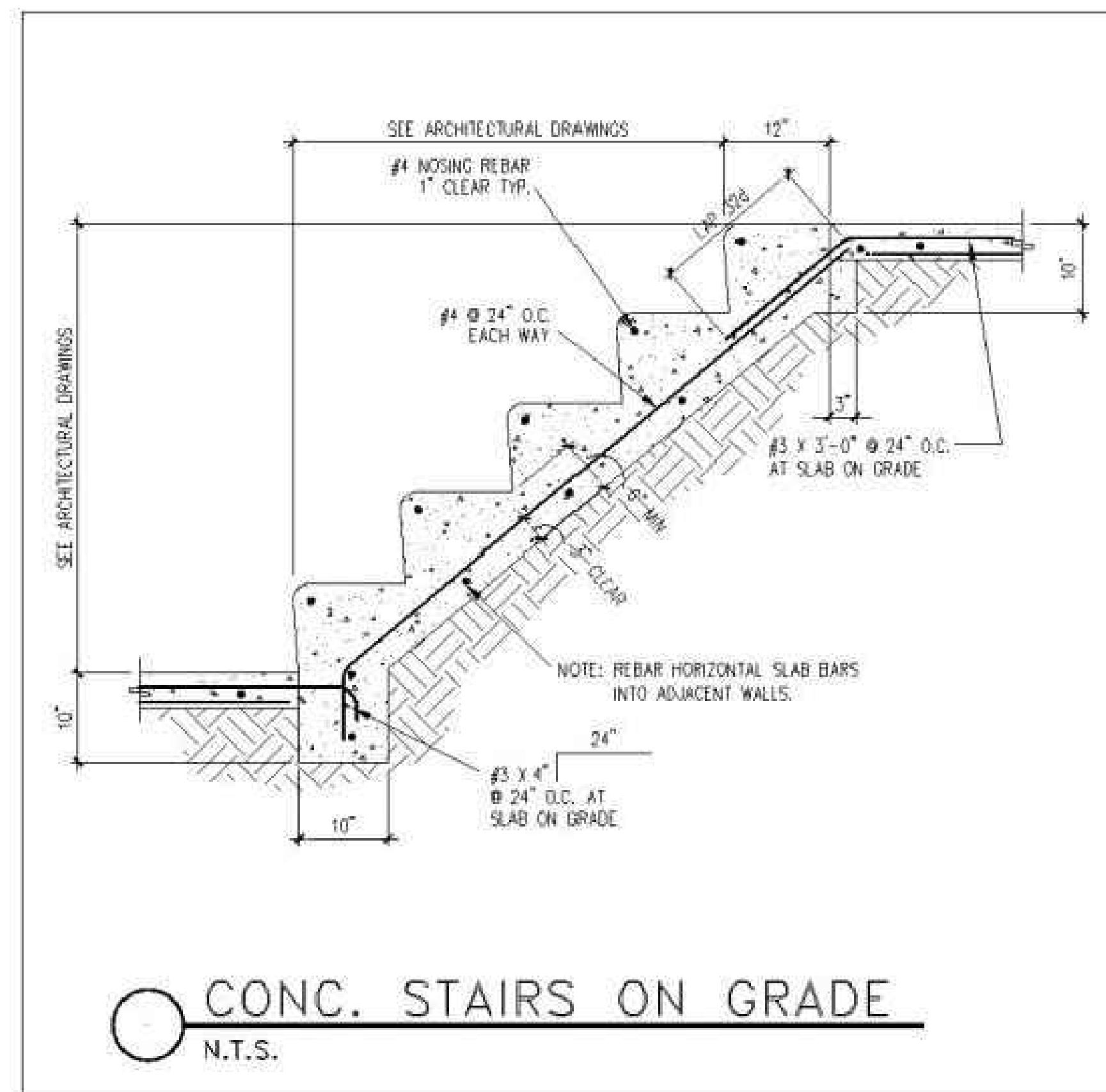
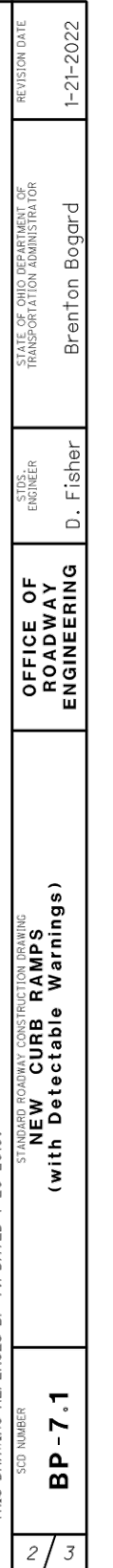
22720 FAIRVIEW CENTER DR.
SUITE 150
Fairview Park, Ohio 44126

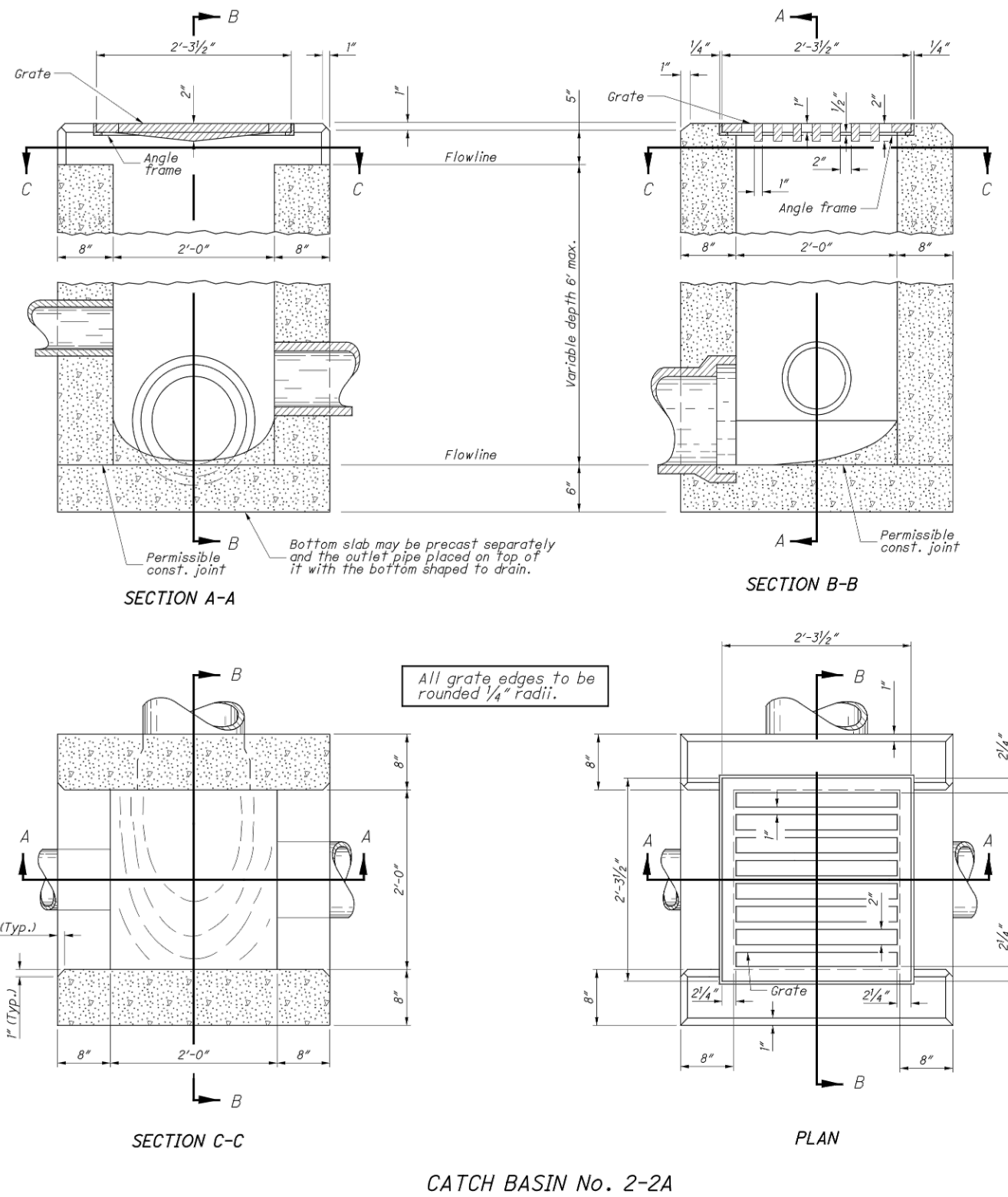
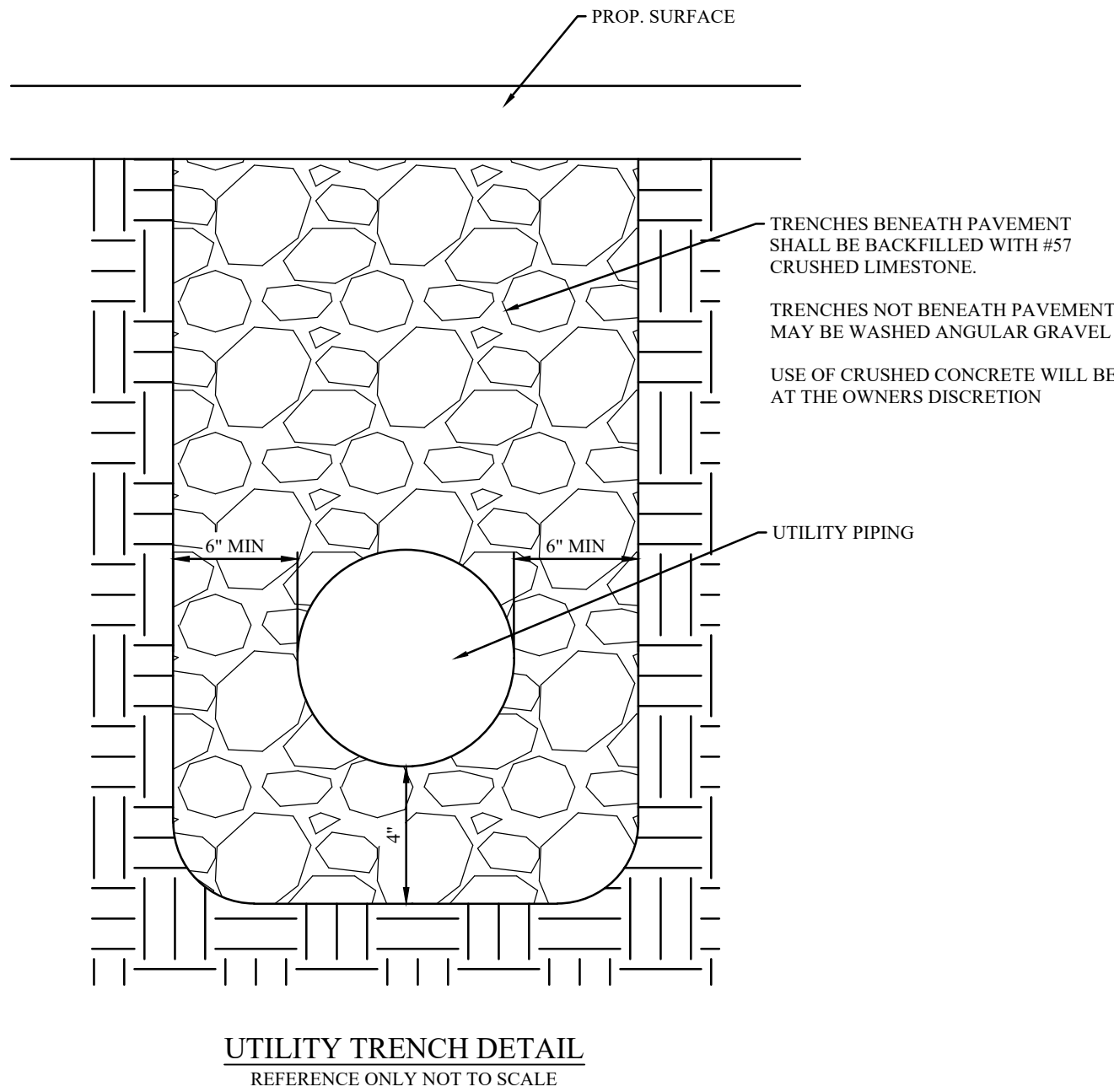
02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

JAN DELL REDEVELOPMENT SITE IMPROVEMENTS

SITE DETAILS

C105A
Project No. 2023-326





NOTES

GENERAL: Catch Basins 2-2A and 2-2B are not intended for use in roadway applications. Catch Basin 2-2C is intended for parking lot use only.

CATCH BASINS 2-2A, 2-2B & 2-2C: This sheet depicts Catch Basin 2-2A. See Sheet 2 of 2 for Catch Basin 2-2B & 2-2C.

GRATE AND FRAME: Furnish a design essentially the same and equally as strong as the one shown (see Construction Information Table), or meet the requirements of CMS 711.4. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.

CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.

PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, location and elevation are of the top center of the grate.

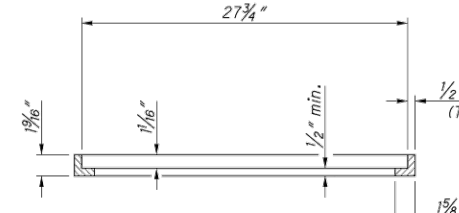
MINIMUM DEPTH: The minimum depth of CB No. 2-2A is the outside diameter (O.D.) of the outlet pipe plus 7\"/>

CONSTRUCTION INFORMATION

Minimum weight of grate, 100 lbs.
Minimum weight of frame, 40 lbs.

CATCH BASIN **OUTLET PIPE SIZE**

2-2A, 2-2B, 2-2C 6" to 18"



PROJECT NO. 2023-326
SHEET NO. 01 OF 02
DATE: 3/28/2024
DESIGNED BY: JEFFREY E. SYR
CHECKED BY: M. COZZOLI
OFFICE OF HYDRAULICS ENGINEERING
CATCH BASIN No. 2-2A, 2-2B, 2-2C

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CLIENT:

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SUITE 150
Fairview Park, Ohio 44126
Phone: (440) 801-1690

OWNER:

JRW/RR, LLC

22720 FAIRVIEW CENTER DR.
SUITE 150
Fairview Park, Ohio 44126

**JAN DELL REDEVELOPMENT
SITE IMPROVEMENTS**

19340 DETRIOT AVENUE ROCKY RIVER, OH

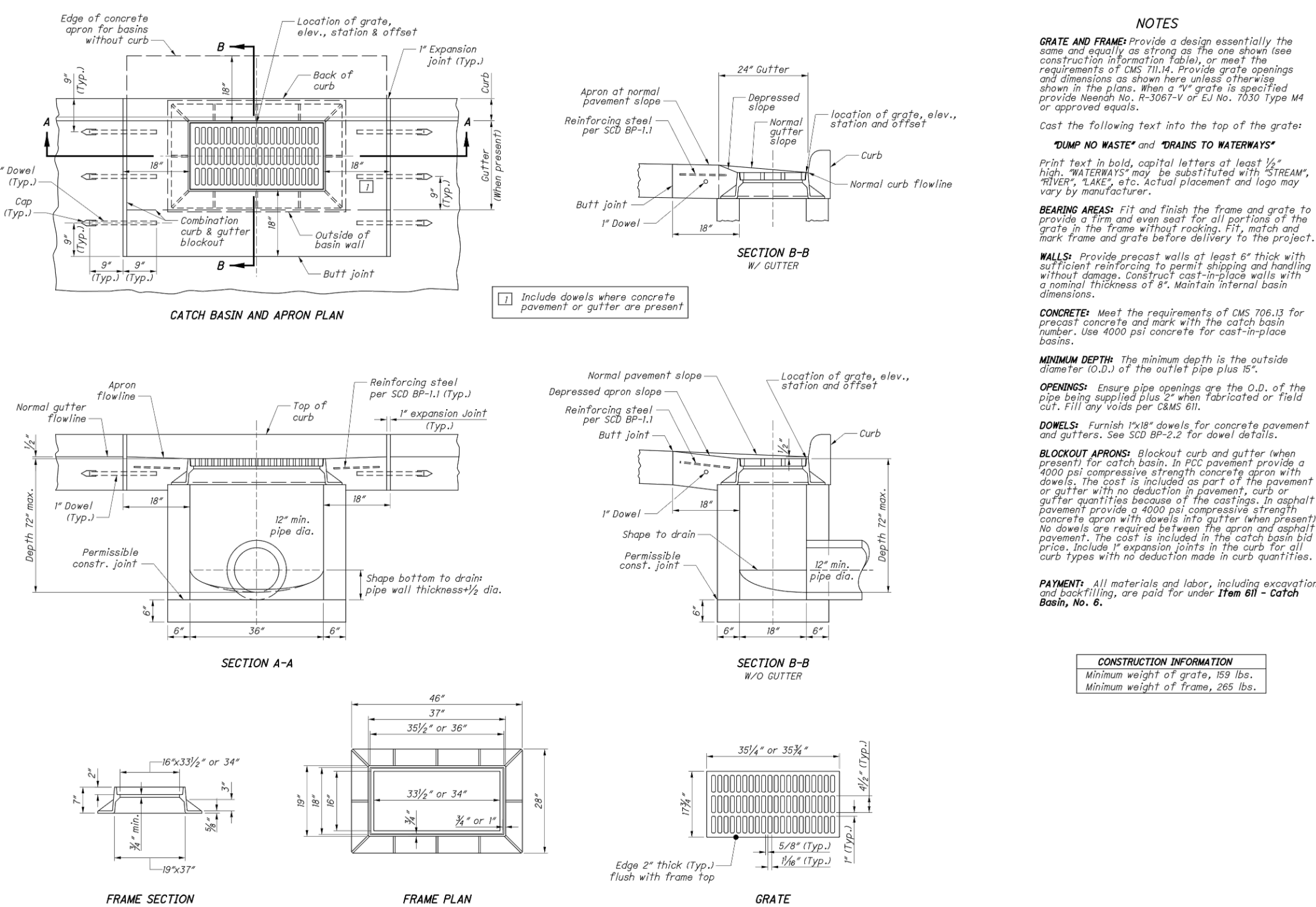
Issue Date

02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

**SITE
DETAILS**

C105B

Project No. 2023-326



NOTES

GRATE AND FRAME: Provide a design essentially the same and equally as strong as the one shown (see Construction Information Table), or meet the requirements of CMS 711.4. Provide grate openings and dimensions as shown here unless otherwise shown in the plans. When a 6" grate is specified provide Neenah No. R-3067-V or E.J. No. 7030 Type M4 or approved equal.

CAST THE FOLLOWING TEXT INTO THE TOP OF THE GRATE:

"DUMP NO WASTE" AND "DRAINS TO WATERWAYS"

Print text in bold, capital letters of least 1/2" high. "WATERWAYS" may be substituted with "STREAM," "RIVER," "LAKE," etc. Actual placement and logo may vary by manufacturer.

BEARING AREAS: Fit and finish the frame and grate to provide a firm and even seat for all portions of the grate in the frame without rocking. Fit, match and lock frame and grate before delivery to the project.

WALLS: Provide precast walls of least 6" thick with sufficient reinforcing to permit shipping and handling without damage. Construct cast-in-place walls with a nominal thickness of 8". Maintain internal basin dimensions.

CONCRETE: Meet the requirements of CMS 706.13 for precast concrete and mark with the catch basin number. Use 4000 psi concrete for cast-in-place basins.

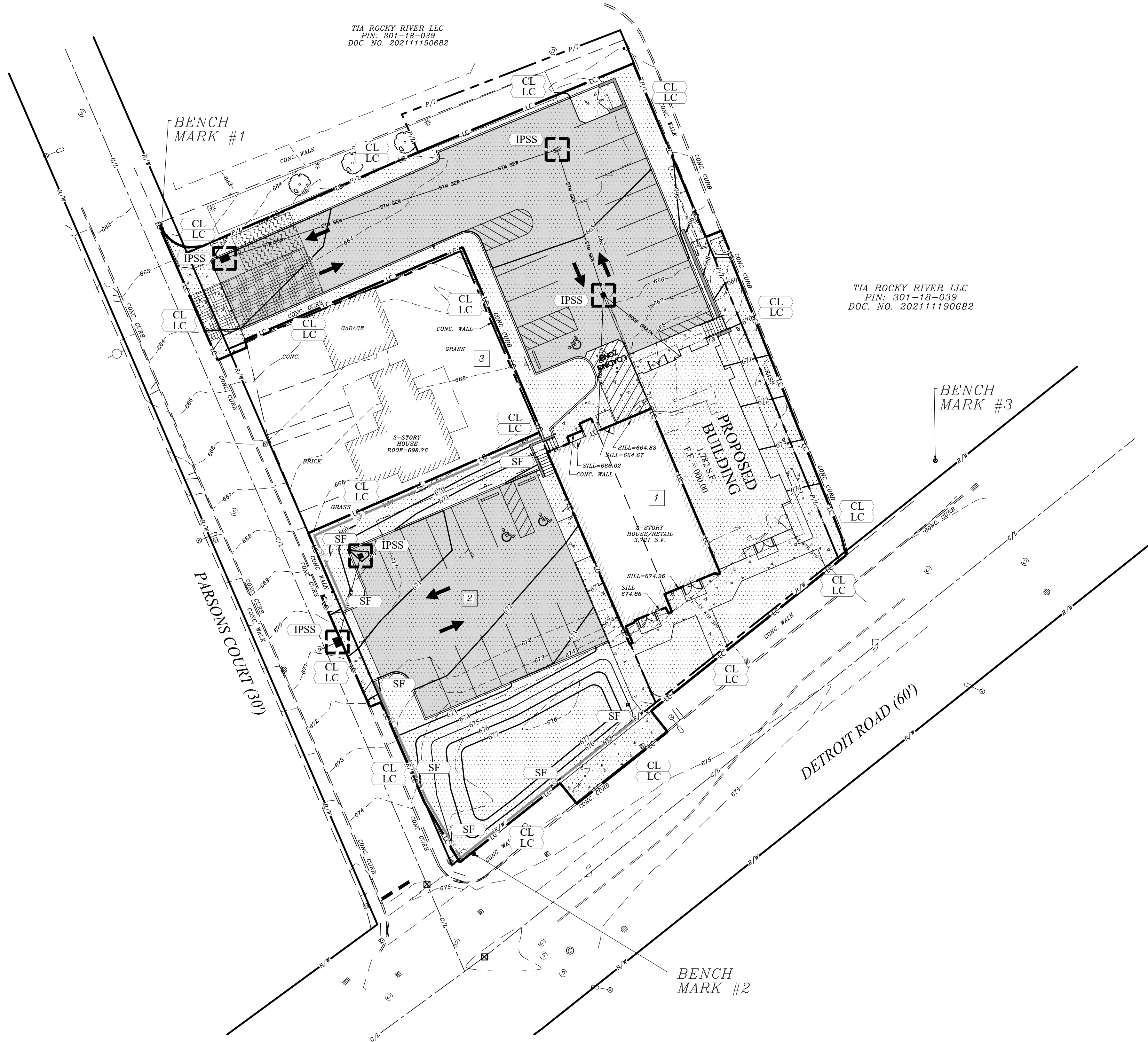
MINIMUM DEPTH: The minimum depth is the outside diameter (O.D.) of the outlet pipe plus 15\"/>

CONSTRUCTION INFORMATION

Minimum weight of grate, 50 lbs.
Minimum weight of frame, 265 lbs.

PROJECT NO. 2023-326
SHEET NO. 02 OF 02
DATE: 3/28/2024
DESIGNED BY: JEFFREY E. SYR
CHECKED BY: M. COZZOLI
OFFICE OF HYDRAULICS ENGINEERING
CATCH BASIN No. 6

D:\A\Projects\2023\2023-326 Rocky River\03-28-2024\2023-326 Site\01E - 03-28-2024\2023-326 Site\01E.dwg, 3/28/2024 1:42:04 PM



TIA ROCKY RIVER LLC
PIN: 301-18-039
DOC. NO. 202111190682

TIA ROCKY RIVER LLC
PIN: 301-18-039
DOC. NO. 202111190682

INSPECTION CHECKLIST

INSPECTIONS SHALL BE MADE ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVEN GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD

DATE	INSPECTOR	WEATHER CONDITIONS	RAINFALL AMOUNT	SEDIMENT DISCHARGE	DISCHARGE LOCATION	BMPS FAILED	ADDITIONAL BMPS NEEDED	CORRECTION MADE

SITE BENCH MARK
BENCH MARK #1 MAG NAIL
ELEVATION = 662.65

SITE BENCH MARK
BENCH MARK #2 MAG NAIL
ELEVATION = 675.16

SITE BENCH MARK
BENCH MARK #3 MAG NAIL
ELEVATION = 674.55

FLOOD ZONE

FLOOD ZONE "X" PER FLOOD INSURANCE
RATE MAP NUMBER 39035C0152F
EFFECTIVE DATE AUGUST 15, 2019

ABBREVIATED SWP3 AMENDMENT ACTIVITIES

GRADING DATE

SITE STABILIZATION DATE

SWP3 AMENDMENT DATE

ABBREVIATED SWP3 RESPONSIBLE PARTY

WXZ DEVELOPMENT, INC.
DAVE BUDGE (216-533-8531)
22720 FAIRVIEW CENTER DRIVE
SUITE 150
FAIRVIEW PARK, OHIO 44126
PHONE: (440) 801-1690

ESTIMATED CONSTRUCTION DATES

START DATE 04-01-2024
END DATE 11-01-2024

ABBREVIATED SWP3 PREPARED

03-07-2024

ALL OFF-SITE BORROW OR SPOIL AREAS SHALL BE REQUIRED TO BE PERMITTED BY A SEPARATE NOI AND RELATED SWP3.

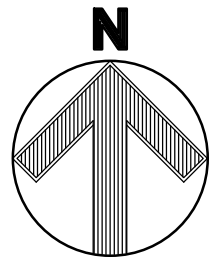
TAG	HATCH/SYMBOL	SWP3 BMP
CL LC		CLEARING LIMITS, LIMITS OF CONSTRUCTION
TCE		TEMPORARY CONSTRUCTION ENTRANCE
CTW VF TW DMP		CEMENT TRUCK WASHOUT, VEHICLE FUELING, TOXIC WASTE AND DUMPSTER LOCATION
IP		INLET PROTECTION (SEE DETAIL ON SHT. C109)
IPSS		INLET SILT SACK PROTECTION (SEE DETAIL ON SHT. C109)

TAG	LINE	SWP3 BMP
SF		SILT FENCE
CFS		12" COMPOST FILTER SOCK MAY BE SUBSTITUTED FOR SILT FENCE AT CONTRACTORS DISCRETION

1 PPN: 301-18-083
JRW /RR LLC
19340 DETROIT RD.
DOC. # 202310110090

2 PPN: 301-18-038
JRW /RR LLC
19364 DETROIT RD.
DOC. # 202311160090

3 PIN: 301-18-081
ANNA M. SMITH &
APRIL W. SAMPSON
1325 PARSONS CT.
DOC. # 200107250778



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



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matt@webercivil.com



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CLIENT:

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22720 Fairview Center Drive
SUITE 150
Fairview Park, Ohio 44126
Phone: (440) 801-1690

OWNER:

JRW/RR, LLC

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SUITE 150
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JAN DELL REDEVELOPMENT
SITE IMPROVEMENTS
19340 DETRIOT AVENUE ROCKY RIVER, OH

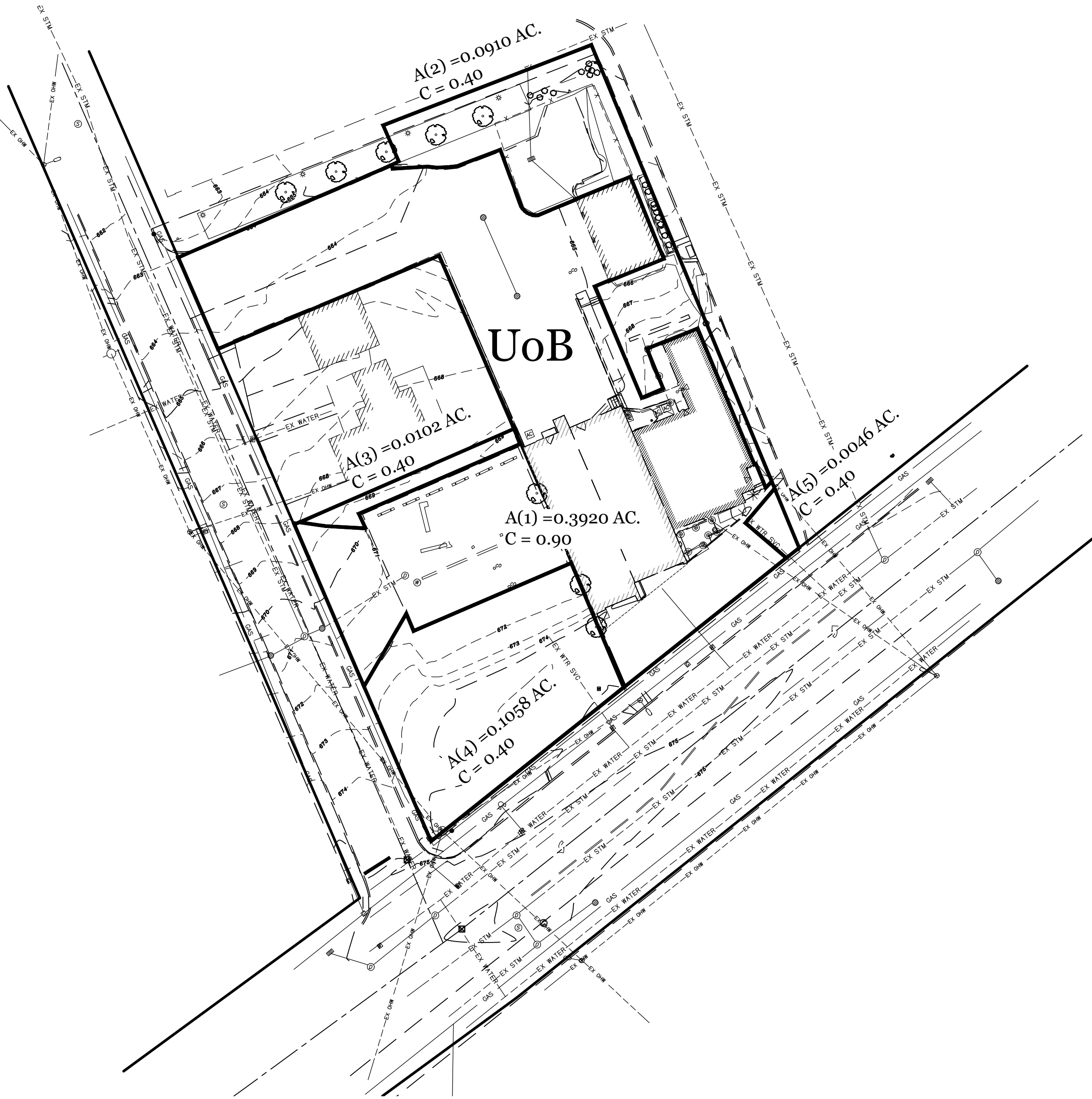
Issue Date

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03-07-2024
03-11-2024
03-27-2024
03-28-2024

ABBREVIATED
SWP3 PLAN

C106

Project No. 2023-326

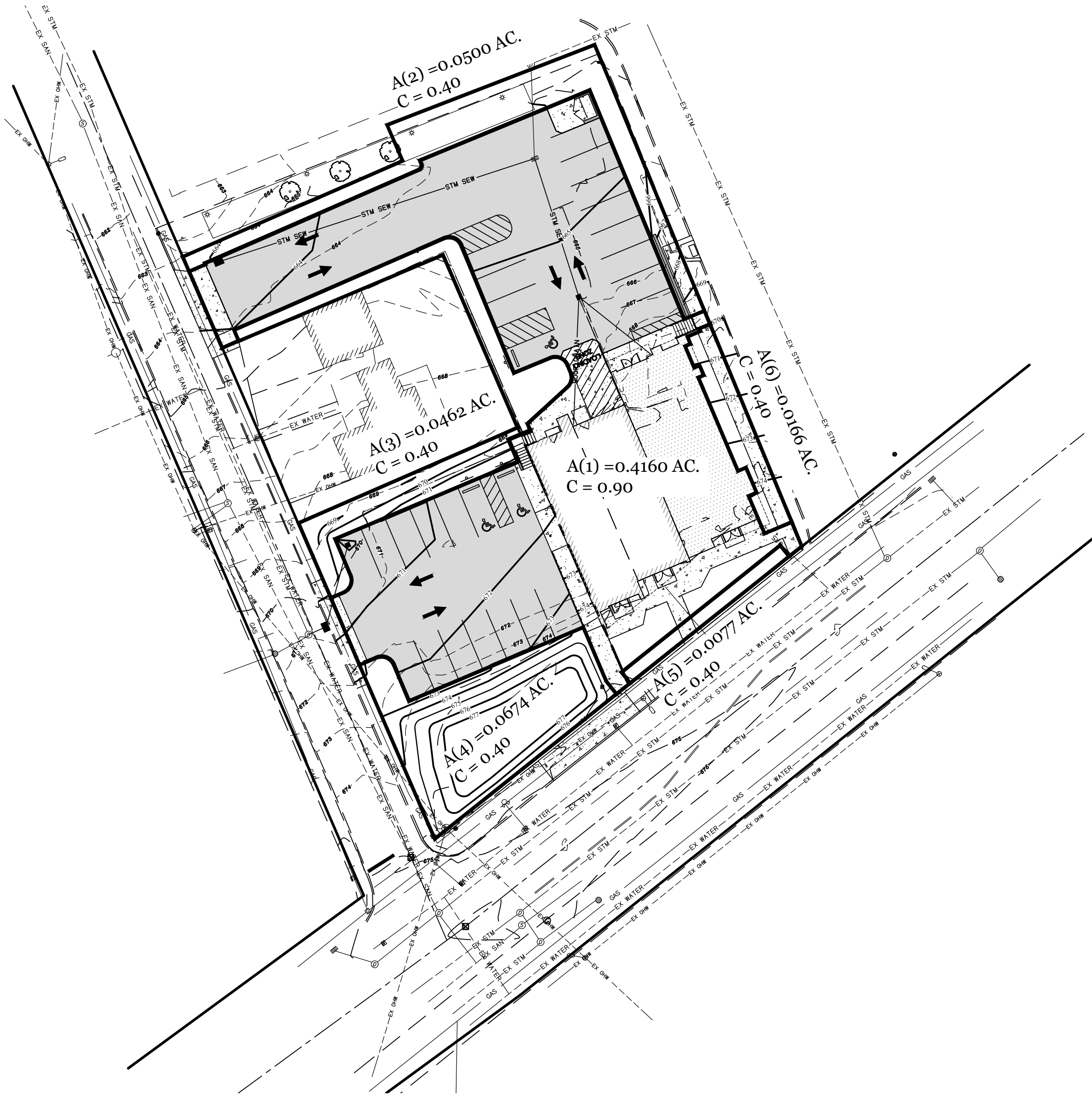


PRE-DEVELOPED DRAINAGE MAP & SOILS MAP

PRE-DEVELOPED: AREA = 0.6042 AC., C = 0.72, TC = 15 MIN.

IMPERVIOUS AREA = 0.3920 AC. (64.9%)

UoB - Urban land-Oshtemo complex, undulating



POST DEVELOPED DRAINAGE MAP

POST DEVELOPED: AREA = 0.6042 AC., C = 0.74, TC = 15 MIN.

IMPERVIOUS AREA = 0.4160 AC. (68.9%)

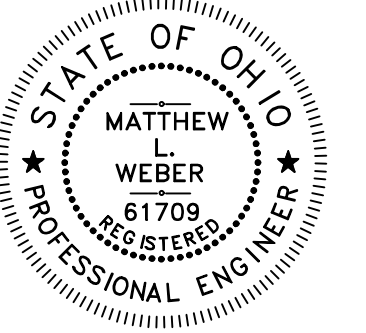
CHANGE IN IMPERVIOUS AREA = 0.0240 AC. (6.1%) INCREASE



GRAPHIC SCALE



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matt@webercivil.com



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SITE IMPROVEMENTS
19340 DETRIOT AVENUE ROCKY RIVER, OH

Issue Date

02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

ABBREVIATED
SWP3
DETAILS

C107

Project No. 2023-326

1. Construction personnel, including subcontractors who may use or handle hazardous or toxic materials, shall be made aware of the following general guidelines regarding disposal and handling of hazardous and construction wastes:
- Prevent spills
 - Use products up
 - Follow label directions for disposal
 - Remove lids from empty bottles and cans when disposing in trash
 - Recycle wastes whenever possible
 - Don't pour into waterways, storm drains or onto the ground
 - Don't pour down the sink, floor drain or septic tanks
 - Don't bury chemicals or containers
 - Don't bum chemicals or containers
 - Don't mix chemicals together
2. Containers shall be provided for the proper collection of all waste material including construction debris, trash, petroleum products and any hazardous materials used on-site. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material. Construction Demolition and Debris (CD&D) waste must be disposed of at an Ohio EPA approved CD&D landfill.
3. No construction related waste materials are to be buried on-site. By exception, clean fill (bricks, hardened concrete, soil) may be utilized in a way which does not encroach upon natural wetlands, streams or floodplains or result in the contamination of waters of the state.
4. Handling Construction Chemicals. Mixing, pumping, transferring or other handling of construction chemicals such as fertilizer, lime, asphalt, concrete drying compounds, and all other potentially hazardous materials shall be performed in an area away from any watercourse, ditch or storm drain.
5. Equipment Fueling and Maintenance, oil changing, etc .. shall be performed away from watercourses, ditches or storm drains, in an area designated for that purpose. The designated area shall be equipped for recycling oil and catching spills. Secondary containment shall be provided for all fuel oil storage tanks. These areas must be inspected every seven days and within 24 hrs. of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may apply. An SPCC plan is required for sites with one single above ground tank of 660 gallons or more, accumulative above ground storage of 1330 gallons or more, or 42,000 gallons of underground storage. Contaminated soils must be disposed of in accordance with Item 8.
6. Concrete Wash Water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance. A sump or pit with no potential for discharge shall be constructed if needed to contain concrete wash water. Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.
7. Spill Reporting Requirements: Spills on pavement shall be absorbed with sawdust or kitty litter and disposed of with the trash at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling. Spills shall be reported to Ohio EPA (1-800-282-9378). Spills of 25 gallons or more of petroleum products shall be reported to Ohio EPA, the local fire department, and the Local Emergency Planning Committee within 30 min. of the discovery of the release. All spills which contact waters of the state must be reported to Ohio EPA.
8. Contaminated Soils. If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto the soil, the soil should be dug up and disposed of at licensed sanitary landfill or other approved petroleum contaminated soil remediation facility. (not a construction/demolition debris landfill). Note that storm water runoff associated with contaminated soils are not be authorized under Ohio EPA's General Storm Water Permit associated with Construction Activities.
9. Open Burning. No materials containing rubber, grease, asphalt, or petroleum products, such as tires, autparts, plastics or plastic coated wire may be burned (OAC 3745-19). Open burning is not allowed in restricted areas, which are defined as: 1) within corporation limits; 2) within 1000 feet outside a municipal corporation having a population of 1000 to 10,000; and 3) a one mile zone outside of a corporation of 10, 000 or more. Outside of restricted areas, no open burning is allowed within a 1000 feet of an inhabited building on another property. Open burning is permissible in a restricted area for: heating tar, welding, smudge pots and similar occupational needs, and heating for warmth or outdoor barbecues. Outside of restricted areas, open burning is permissible for landscape or land-clearing wastes (plant material, with prior written permission from Ohio EPA) , and agricultural wastes, excluding buildings.
10. Dust Control or dust suppressants shall be used to prevent nuisance conditions, in accordance with the manufacturer's specifications and in a manner, which prevent a discharge to waters of the state. Sufficient distance must be provided between applications and nearby bridges, catch basins, and other waterways. Application (excluding water) may not occur when rain is imminent as noted in the short term forecast. Used oil may not be applied for dust control.
11. Other Air Permitting Requirements: Certain activities associated with construction will require air permits including but not limited to: mobile concrete batch plants, mobile asphalt plants, concrete crushers, large generators, etc. These activities will require specific Ohio EPA Air Permits for installation and operation. Operators must seek authorization from the corresponding district of Ohio EPA. For demolition of all commercial sites, a Notification for Restoration and Demolition must be submitted to Ohio EPA to determine if asbestos corrective actions are required.
12. Process Waste Water/Leachate Management. Ohio EPA's Construction General Permit only allows the discharge of storm water and does not include other waste streams/discharges such as vehicle and/or equipment washing, on-site septic leachate concrete wash outs, which are considered process wastewaters. All process wastewaters must be collected and properly disposed at an approved disposal facility. In the event, leachate or seepage is discharged; it must be isolated for collection and proper disposal and corrective actions taken to eliminate the source of waste water.
13. A Permit To Install (PTI) is required prior to the construction of all centralized sanitary systems, including sewer extensions, and sewerage systems (except those serving one, two, and three family dwellings) and potable water lines. Plans must be submitted and approved by Ohio EPA. Issuance of an Ohio EPA Construction General Storm Water Permit does not authorize the installation of any sewerage system where Ohio EPA has not approved a PTI.

CONSTRUCTION SEQUENCE

(ALL ITEMS ARE TO BE THE RESPONSIBILITY OF THE GENERAL SITE CONTRACTOR)

SITE PREPARATION

NOTE:

PROVIDE SAFE AND SECURE PEDESTRIAN AND VEHICULAR TRAFFIC CIRCULATION THROUGHOUT THE ENTIRETY OF THE CONSTRUCTION SEQUENCE WITH WELL DEFINED CONSTRUCTION BOUNDARIES TO BE ACCESSED BY CONSTRUCTION PERSONNEL ONLY. ALL EROSION CONTROLS ARE TO BE THOROUGHLY INSPECTED BY THE CONTRACTOR UPON THE COMPLETION OF EACH WORK DAY AND MAINTAINED THROUGHOUT THE REQUIRED LIFE OF THE CONTROL, AS SPECIFIED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED NPDES PERMIT AND SIGN THE PERMIT TO ACCEPT RESPONSIBILITIES AS THE CO-PERMITTEE.

INITIAL PHASE (WITHIN 7 DAYS OF START OF GRUBBING)

1. INSTALL A TEMPORARY CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE.
2. SETUP CONSTRUCTION TRAILER ON SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE AS NECESSARY.
3. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. STAKEOUT LIMITS OF DISTURBANCE.
5. INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS WITHIN LIMITS OF CONSTRUCTION. REMOVE SILT PROTECTION FROM DESIGNATED INLETS ONLY WHEN INLET STRUCTURE IS TO BE REMOVED AS REQUIRED BY PROGRESSION OF CONSTRUCTION. REFER TO PLANS FOR IDENTIFICATION OF INLET STRUCTURES TO BE REMOVED.
6. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS.
7. BEGIN SITE CLEARING.
8. REMOVE TOPSOIL FROM AREAS OF BUILDING AND PAVEMENT.
9. BEGIN EARTHWORK OPERATIONS.
10. CONSTRUCT STORM WATER BASIN.
11. IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER E.P.A. REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SYSTEM. REMOVE SILT FROM BASINS AS NECESSARY PRIOR TO CONTINUING EARTHWORK. MATERIAL SHOULD BE MECHANICALLY SPREAD AND DRIED PRIOR TO INCORPORATION INTO THE EARTHWORK PROCEDURES. ADEQUACY OF THE DRIED MATERIAL IS TO BE DETERMINED BY A GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDES, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC., THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHALL BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

INTERIM PHASE GENERAL CONSTRUCTION

1. MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK.
2. BEGIN EARTHMOVING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION AND SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL. THE CONTRACTOR IS TO COORDINATE WITH OWNER THE PLACEMENT OF SUCH MEASURES.
3. STORM SEWER, SANITARY SEWER, WATER LINE AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF GRADE AND WITH THE PERMISSION OF THE OWNER.
4. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY MEANS OF GRAVEL BACKFILL TO SURFACE, REPAVING OR MULCHING.
5. REPLACE TOPSOIL, FINE GRADE AND SEED AS REQUIRED.
6. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWN/VETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
7. INSTALL PAVEMENT SUBBASE.
8. BEGIN BITUMINOUS PAVING, REMOVING TEMPORARY CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.
9. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 80% COVERAGE IS ACHIEVED.
10. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.

FINAL PHASE POST-PAVING BASIN CONVERSION

1. IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
2. THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR, IN ORDER, ONCE THE SITE HAS BEEN DEEMED STABLE:
 - A. REMOVE SEDIMENT CONTROL DEVICES AND ESTABLISH WATER QUALITY CONTROL ORIFICE.
 - B. REMOVE TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING.
 - C. SITE CLEAN UP.
 - D. RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED
 - E. FILTER FENCES ARE TO BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.
 - F. VERIFY POSITIVE CONVEYANCE FLOW IN ALL DRAINAGE STRUCTURES.

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB/100 FT ²	LB/ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
AUGUST 16TH TO NOVEMBER	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREeping RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	1	40
	OATS	3	128 (3 BUSHEL)
	TALL FESCUE	1	40
NOVEMBER 1 TO FEB. 29	ANNUAL RYEGRASS	1	40
	RYE	3	112 (3 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120 (BUSHEL)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS CREEPING	1.25	40
	RED FESCUE	0.4	40
	KENTUCKY BLUEGRASS	0.4	40

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
3. THE SEEDED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDED PREPARATION IS NOT POSSIBLE.
4. SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISHED ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
5. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY BAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
2. MATERIALS: STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2 TONS/AC OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH. DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION. HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB./AC OR 46 LB./1,000 SQ. FT. OTHER-OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS: MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW OR SIMILAR TYPE ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN. MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DC-70, PETROSET, TERRA-TACK OR EQUIVALENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. WOOD-CELLULOSE FIBER--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL.

BMP INSPECTION CHECKLIST		
BMP	FREQUENCY	NOTES
GENERAL INSPECTION	EVERY 6 MO.	
STORM WATER BASIN	MONTHLY	
VEGETATION	MONTHLY	FIRST 2 GROWING SEASONS THEN TWICE A YEAR
SILT FENCE	MONTHLY	FIRST GROWING SEASON

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN. RECORDS SHALL BE SUBMITTED TO THE CITY OF ROCKY RIVER ENGINEERING DEPARTMENT FOR REVIEW BY MAY 1st OF EACH YEAR.

ALL CONTROL PRACTICES THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN THREE (3) DAYS OF THE INSPECTION.

ADDITIONAL SWP3 CONSIDERATIONS

NO OPEN BURNING

DUST CONTROL SHALL BE ACHIEVED BY USE OF WATERING TRUCKS. USE OF OIL IS STRICTLY PROHIBITED. INLET PROTECTION MUST BE IMPLEMENTED PRIOR TO DUST CONTROL MEASURES.

IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF OIL SHEEN, THE CONTRACTOR SHALL CONTACT THE OHIO E.P.A. AT 800-282-9378, THE LOCAL FIRE DEPARTMENT.

SMALL SPILLS (<25 GALLONS) SHALL BE CLEANED UP USING AN ABSORBING AGENT. THE ABSORBING AGENT REMOVED AND DISPOSED OF ACCORDING TO FEDERAL REGULATIONS.

ALL TRENCH DEWATERING MEASURES SHALL BE DISCHARGED INTO SETTLING BASINS PRIOR TO DISCHARGE FROM SITE. BMPS THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF INSPECTION.

STREETS ADJACENT TO SITE SHALL BE CLEANED AT THE END OF EACH WORK DAY.

POST-CONSTRUCTION BMP RATIONALE

STORM WATER MANAGEMENT AND POST CONSTRUCTION WATER QUALITY BMPS ARE NOT REQUIRED DUE TO THE SCOPE OF THE PROJECT BEING LESS THAN ONE (1) ACRE.

MAINTENANCE FOR PERMANENT SEEDINGS FERTILIZATION AND MOWING					
MIXTURE	FORMULA	LBS./ACRE	LBS./1,000 SQ. FT.	TIME	MOWING
CREEPING RE FESCUE RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	12	FALL, YEARLY AS NEEDED	NOT CLOSER THAN 3"
TALL FESCUE	10-10-10	500	12		NOT CLOSER THAN 4"
TURF-TYPE FESCUE	10-10-10	500	12		
CROWN VETCH FESCUE	6-20-20	400	10		DO NOT MOW
FLAT PEA FESCUE	0-20-20	400	10	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7 YEARS THEREAFTER	DO NOT MOW

NOTE: FOLLOWING SOIL TEST RECOMMENDATIONS IS REFERRED TO FERTILIZER RATES SHOWN ABOVE.

SPECIFICATIONS FOR PERMANENT SEEDING

SITE PREPARATION

1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO TILLAGE. IT IS NECESSARY FOR ESTABLISHING VEGETATION.
2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION AND SEEDING.
3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION. SEEDED PREPARATION:
 - a. LIME--AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL, AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB./1,000 SQ. FT. OR 2 TONS/ACRE.
 - b. FERTILIZER--FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 LB./1,000 SQ. FT. OR 100 LB./ACRE OF 10-10-10 OR 12-12-12 ANALYSES.
 - c. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK, HARROW, SPRING-TOOTH HARROW OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOR.

EROSION PREVENTION PRACTICES

SEEDING DATES AND SOIL CONDITIONS
SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUG 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDED PREPARATION SHOULD BE DONE WHEN SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

DORMANT SEEDING

1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
 - FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR.
 - AFTER NOVEMBER 20, BROADCAST THE SELECTED SEED MIXTURE AT A 50% INCREASE IN THE SEEDING RATE.
 - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDED, LIME AND FERTILIZE, THEN THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
 - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD FOLLOW THE CONTOUR WHERE FEASIBLE.

MULCHING

1. MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
2. MATERIALS:
 - STRAW--IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED FOR UNIFORM DISTRIBUTION OF DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. HAND-SPREAD MULCH, SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB./ACRE OR 46 LB./1,000 SQ. FT. OTHER-OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/ACRE.
3. STRAW MULCH AND ANCHORING METHODS:
 - STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
 - MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT GENERALLY LEFT LONGER THAN 6 IN.
 - MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
 - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DC-70, PETROSET, TERRA-TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.

EROSION PREVENTION PRACTICES

WOOD CELLULOSE FIBER--WOOD CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 LBS. CELLULOSE/100 GALLONS OF WATER.

IRRIGATION

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.

2. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	LBS./ACRE	LBS./1,000 SQ. FEET	
GENERAL USE			
CREEPING RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20-40 10-20 20-40	1/2-1 1/4-1/2 1/2-1	FOR CLOSE MOWING & FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY
TALL FESCUE	40-50	1-1 1/4	
TURF- TYPE (DWARF) FESCUE	90	2 1/4	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1-1/4	
CROWN VETCH TALL FESCUE	10-20 20-30	1/4-1/2 1/2-3/4	DO NOT SEED LATER THAN AUGUST
FLAT PEA TALL FESCUE	20-25 20-30	1/2-3/4 1/2-3/4	DO NOT SEED LATER THAN AUGUST
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1-1 1/4	
TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS	90 5	2 1/4 0.1	
LAWNS			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100-120	2 2	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	100-120	2 1-1/2	FOR SHADED AREAS

NOTE: OTHER APPROVAL SEED SPECIES MAY BE SUBSTITUTED.

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREAS

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, AND DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOTS. PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII.



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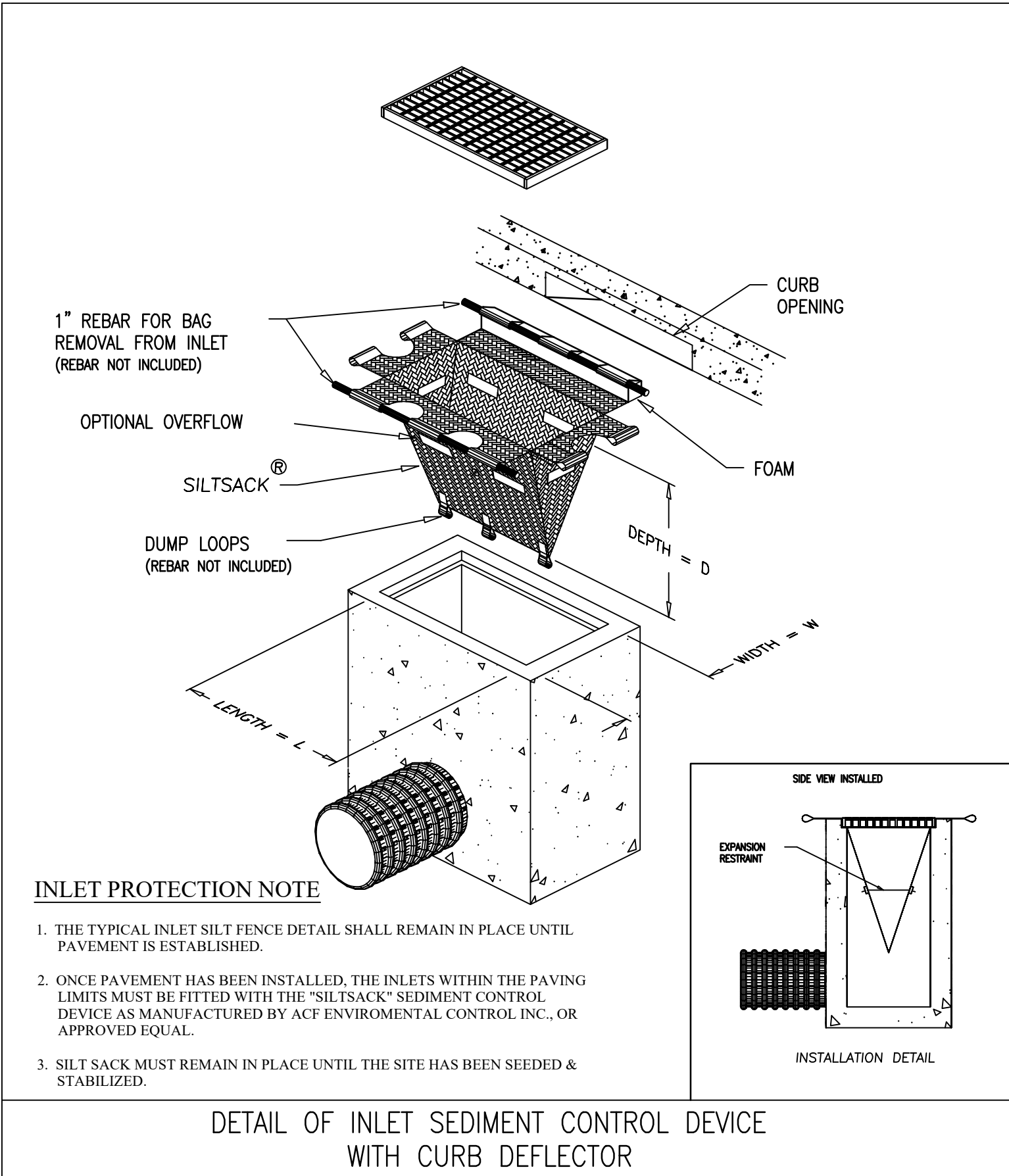
JAN DELL REDEVELOPMENT
SITE IMPROVEMENTS
19340 DETRIOT AVENUE ROCKY RIVER, OH

Issue Date

02-02-2024
03-07-2024
03-11-2024
03-27-2024
03-28-2024

ABBREVIATED
SWP3
DETAILS
C108
Project No. 2023-326

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IPSS SILTSACK DETAIL

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MIN. OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MIN. OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.

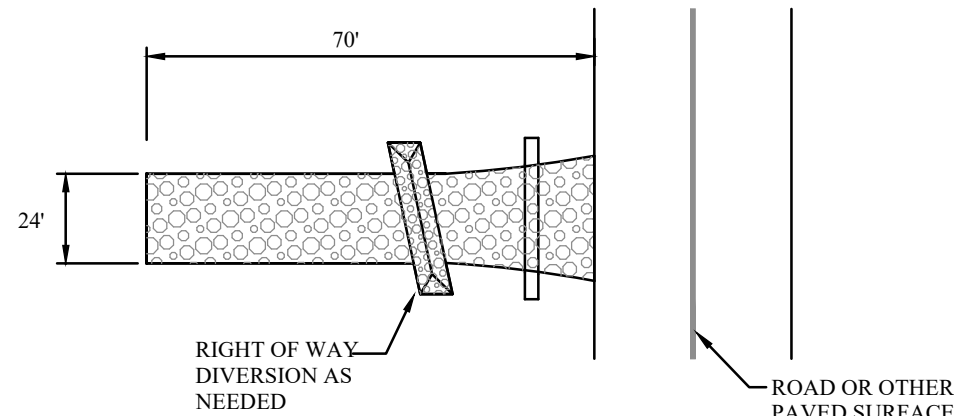
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
 10. MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED; 2) ACCUMULATED SEDIMENT SHALL BE REMOVED; OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POSTS-- THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE FABRIC (SEE CHART BELOW):

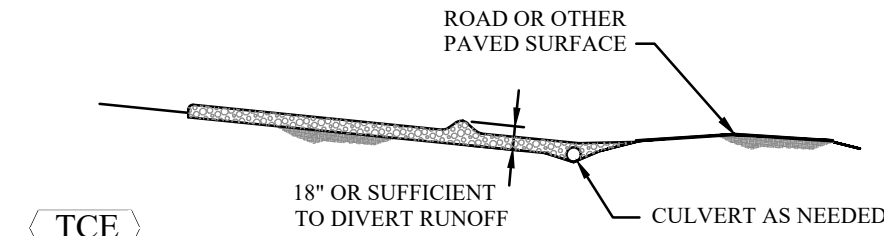
MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)			
FABRIC PROPERTIES	VALUES	TEST METHOD	
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4362	
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632	
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833	
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533	
APPARENT OPENING SIZE	<.84 MM	ASTM D 4751	
MINIMUM PERMITTIVITY	1X10 ⁻² SEC ⁻¹	ASTM D 4491	
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355	

SF SPECIFICATIONS FOR SILT FENCE



CONSTRUCTION ENTRANCE PLAN

REFERENCE ONLY NOT TO SCALE



CONSTRUCTION ENTRANCE PROFILE

REFERENCE ONLY NOT TO SCALE

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.)
3. THICKNESS- THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH- THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE- A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS.

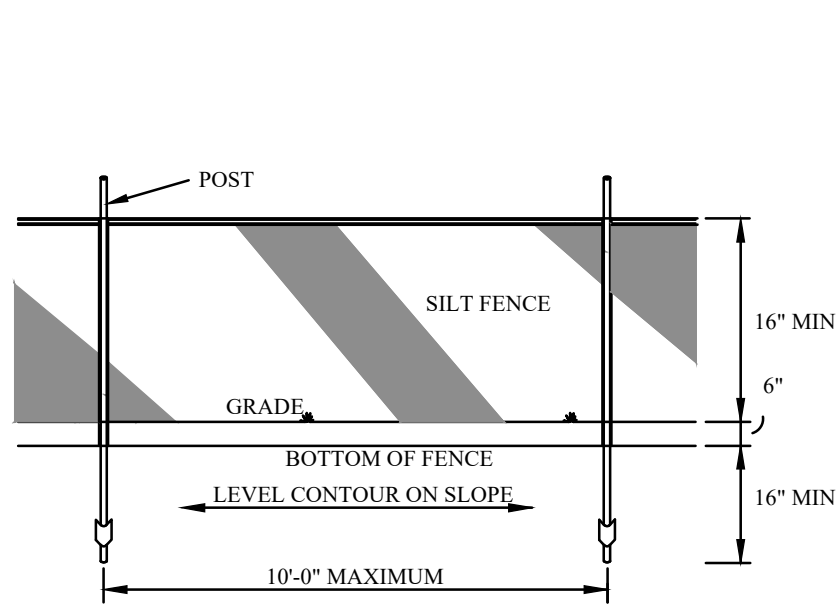
GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EO5<0.6MM.
PERMITTIVITY	1X10 ⁻³ CM/SEC.

TCE SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

6. TIMING- THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT- A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECT OUT ONTO PAVED SURFACES.
8. WATER BAR- A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE- TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS.
10. SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.

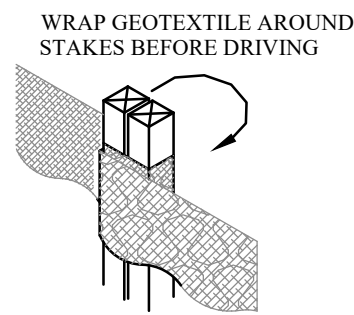
CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

REMOVAL- THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



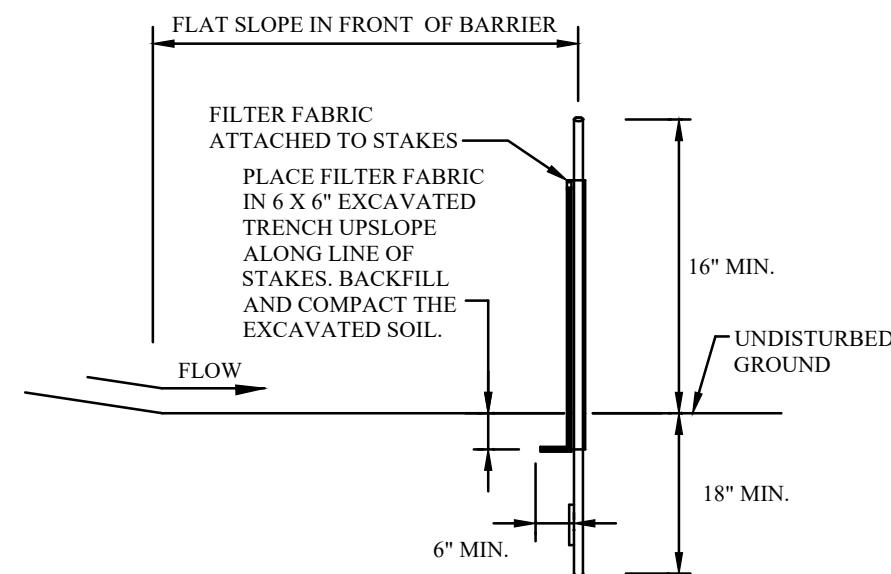
SF SILT FENCE DETAIL

REFERENCE ONLY NOT TO SCALE



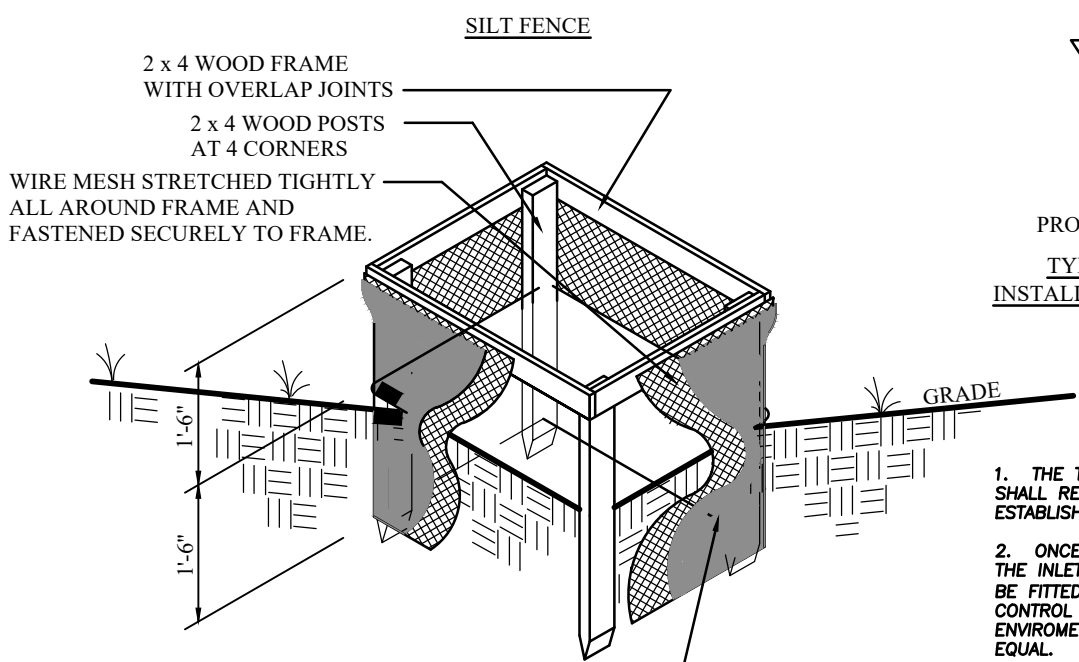
JOINING SECTIONS OF SILT FENCE DETAIL

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SF SILT FENCE SECTION

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GEOTEXTILE STRETCHED TIGHTLY OVER MESH AND FASTENED SECURELY. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF INLET SO THE ENDS OF CLOTH ARE NOT FASTENED TO THE SAME POST.

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM INLET BECOMES FUNCTIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.

5. GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40-SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH-ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

MAINTENANCE

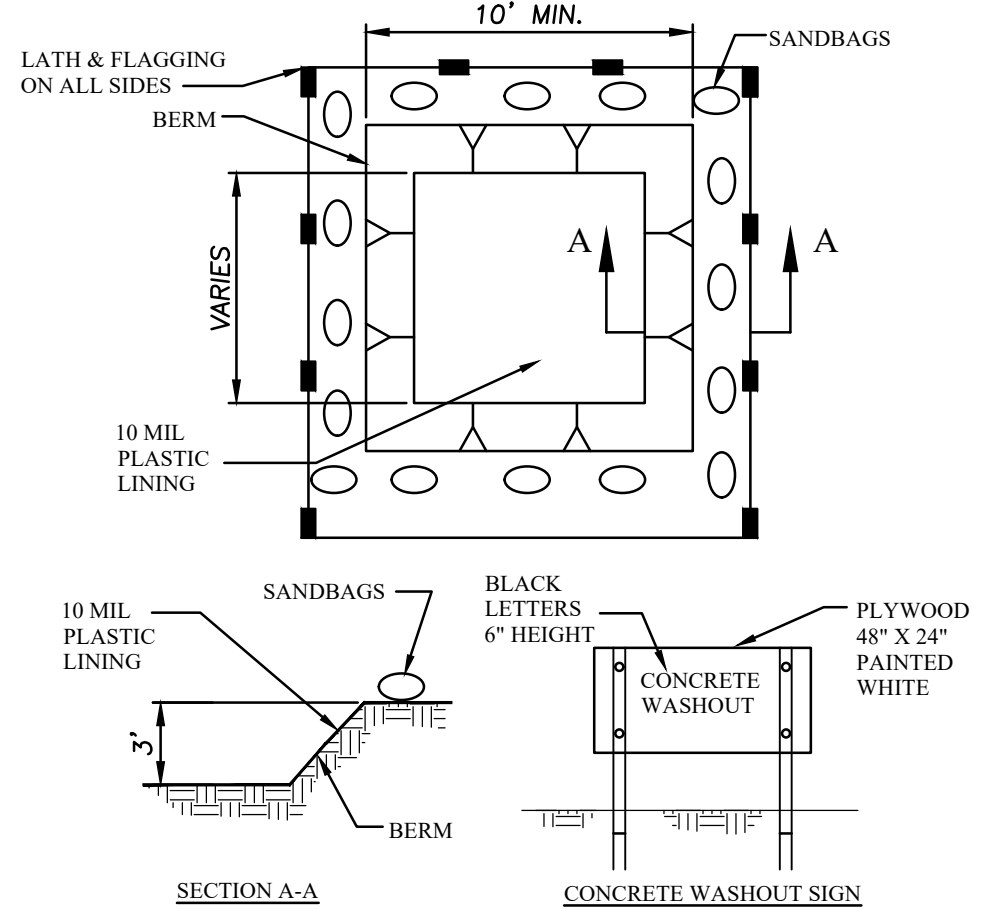
EFFECTIVE STORM DRAIN INLET PROTECTION COLLECTS SEDIMENT AND THEREFORE MUST BE CLEANED REGULARLY TO PREVENT CLOGGING AND SUBSEQUENT FLOODING CONDITIONS, PIPING, OR OVERTOPPING OF THE CONTROL STRUCTURES. SEDIMENT BARRIERS THAT SAG, FALL OVER, OR ARE NOT PROPERLY SECURED, MUST BE PROMPTLY REPAIRED OR REPLACED.

INLET PROTECTION SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. AREAS WHERE THERE IS ACTIVE TRAFFIC SHALL BE INSPECTED DAILY. REPAIRS SHALL BE MADE AS NEEDED TO ASSURE THE PRACTICE IS PERFORMING AS INTENDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION IS ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. SEDIMENT SHALL BE REMOVED AND PLACED IN A LOCATION WHERE IT IS STABLE AND NOT SUBJECT TO EROSION.

ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, ALL FILTER MATERIAL AND COLLECTED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED.

IP SPECIFICATIONS FOR GEOTEXTILE INLET PROTECTION

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1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10'.
3. LATH AND FLAGGING SHALL BE COMMERCIAL TYPE.
4. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES. WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS ONLY.
7. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.
8. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFFSITE.
9. CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP, REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATION ON A REGULAR BASIS.
10. WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

TCW TEMP. CONCRETE WASHOUT FACILITY

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SITE IMPROVEMENTS**
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Issue Date
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**ABBREVIATED
SWP3
DETAILS**

C109
Project No. 2023-326

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SPECIFICATIONS FOR DUST CONTROL

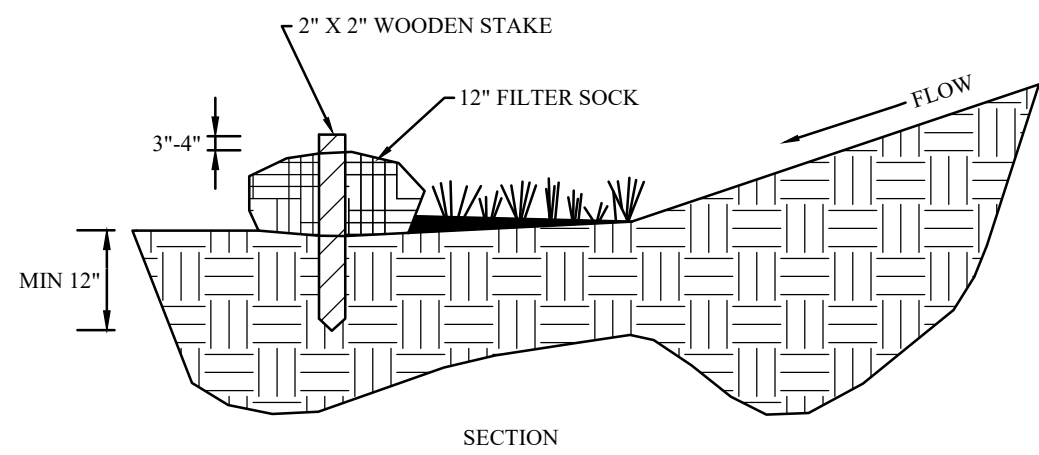
ADHESIVES FOR DUST CONTROL			
ADHESIVE	WATER DILUTION (ADHESIVE WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.
LATEX EMULSION	12.5:1	FINE	235
TESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

- VEGETATIVE COVER AND/MULCH- APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- WATERING- SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- SPRAY-ON ADHESIVES-APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS
- STONE - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- BARRIERS- EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
- CALCIUM CHLORIDE - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
- OPERATION AND MAINTENANCE - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROLS.

STREET CLEANING- PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.

SPECIFICATIONS FOR MULCHING

- MULCH AND OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.
- MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:
 - STRAW - SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS - WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
 - OTHER - ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH CHIPS APPLIED AT 10-20 TONS/AC.
- MULCH ANCHORING - MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:
 - MECHANICAL - USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.
 - MULCH NETTINGS - USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
 - SYNTHETIC BINDERS - FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK, OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATER OF THE STATE.
 - WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.



- MATERIALS-COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM $\frac{1}{8}$ " TO 2".
 - FILTER SOCKS SHALL BE 3 OR 5 MIL. CONTINUOUS, TUBULAR, HDPE $\frac{1}{2}$ " KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
 - FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
 - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
 - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATE FLOW SITUATIONS OR IN RUNOFF CHANNELS.
- MAINTENANCE:**
- ROUTINELY INSPECT FILER SOCKS AFTER EACH SIGNIFICANT RAIN. MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
 - REMOVAL-FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AN NO OBSTRUCT SEEDINGS.

CFS COMPOST FILTER SOCK DETAIL
REFERENCE ONLY NOT TO SCALE

SPECIFICATIONS FOR SODDING

- MATERIALS**
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 48 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION.
 - THE SOD SHALL BE KEPT MOIST AN COVERED DURING HAULING AND PREPARATION FOR PLACEMENT.
 - SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 0.75 INCHES, PLUS OR MINUS 0.25 INCHES, AT THE TIME OF CUTTING. MEASUREMENTS FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- SITE PREPARATION**
- A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY. SUBSOILING SHALL NOT BE CONDUCTED ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED ONLY TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
 - THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.
 - SOIL AMENDMENTS
 - LIME- AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACIDIC SOILS AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB./1,000 SQ. FT OR 2 TONS/AC.
 - FERTILIZER- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A 2 SOIL TEST FERTILIZER SHALL BE APPLIED AT A RATE OF 12 LB./1,000 SQ. FT OR 500 LB./AC. OF 10-10-10 OR 12-12-12 ANALYSIS
 - THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES.
 - BEFORE LAYING SOD, THE SURFACE SHALL BE UNIFORMLY GRADED AND CLEARED OF ALL DEBRIS, STONES AND CLODS LARGER THAN 3-IN. DIAMETER.
- SOD INSTALLATION**
- DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURES, THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY BEFORE LAYING THE SOD.
 - SOD SHALL NOT BE PLACED ON FROZEN SOIL.
 - THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED IN A BRICK-LIKE PATTERN. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS THAT WOULD DRY THE ROOTS.
 - ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGE PARALLEL TO THE CONTOUR AND STAGGERED JOINTS. THE SOD SHALL BE SECURED WITH PEGS OR STAPLES.
 - AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO ENSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE SOD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN 8 HOURS.
- MAINTENANCE**
- IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK WITH SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A DEPTH OF 4-6 INCHES.
 - AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND ENSURE ESTABLISHMENT.
 - THE FIRST MOWING SHALL NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED.

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