

TREE MITIGATION REQUIREMENTS				
CODE SECTION	REQUIRED	PROPOSED		
§ 126-327(2)	MINIMUM PRESERVATION PERCENTAGE:	9 REGULATED TREES TO		
	40% PRESERVATION OF REGULATED TREES	BE PRESERVED (75%)		
	12 REGULATED TREES			
	12 TREES X 0.40 = 5 REGULATED TREES TO BE PRESERVED			
§ 126-397	REGULATED TREE REPLACEMENT:	3 TREES		
	1:1			
	3 TREES REMOVED = 3 TREES REQUIRED			
§ 126-397(3)	SPECIMEN TREE REPLACEMENT:	8" DBH (4 TREES @ 2" EACH)		
	50% OF TOTAL DBH TO BE REPLACED			
	(20" TOTAL DBH)X(0.50)=10" DBH			
	I SPECIMEN TREE PRESERVED=2" CREDIT			
	(10" DBH)-(2" CREDIT)=8" DBH REQUIRED			

LAN	DSCAPE AND BUFFER REQU	JIREMENTS
CODE SECTION	REQUIRED	PROPOSED
§ 138-12.300	BUFFER REQUIREMENTS: B-2 TO R-2	
	BUFFER WIDTH W/O 6 FT WALL: 25 FT	25.0 FT
	DECIDUOUS TREES PER 100 LF: 2.5 EA	
	(119 LF)/(100) = 1.19	
	(1.19 * 2.5) = 3 TREES REQUIRED	3 EXISTING TREES
	ORNAMENTAL TREES PER 100 LF: 1.5 EA	
	(1.19 * 1.5) = 2 TREES REQUIRED	2 EXISTING TREES
	EVERGREEN TREES PER 100 LF: 5 EA	
	(I.19 * 5) = 6 TREES REQUIRED	6 PROPOSED TREES
	SHRUBS PER 100 LF: 8 EA	
	(I.19 * 8) = I0 SHRUBS REQUIRED	10 EXISTING SHRUBS
§ 138-12.301(A)(1)	INTERIOR LANDSCAPING:	
	5% OF PARKING LOT AREA	
	(15,530 SF)X(0.05) = 777 SF	1,272 SF
	I TREE PER 150 SF	
	(777 SF / I50 SF) = 5 TREES	5 TREES (I EXISTING)
§ 138-12.301(A)(2)	TERMINAL ISLANDS:	
	MIN. 144 SF, 18 FT LONG	
	I TREE PER ISLAND	PROVIDED
§ 138-12.301(A)(3)	INTERIOR ISLANDS:	
	MIN. 160 SF, 8 FT WIDTH	
	I TREE PER ISLAND	PROVIDED
§ 138-12.301(B)(1)	PERIMETER LANDSCAPING:	
	I DECIDUOUS TREE PER 25 LF	
	(18.5 LF /25) = I TREE	I EXISTING TREE
	I ORNAMENTAL TREE PER 35 LF	
	(18.5 LF /35) = I TREE	I EXISTING TREE
§ 138-12.301(B)(2)	PARKING LOT WITHIN 30 FT OF ROW:	
	CONTINUOUS SHRUB HEDGE 30" O.C.	PROVIDED
	RIGHT-OF-WAY LANDSCAPING:	
§ 138-12.304(A)(1)	I DECIDUOUS TREE PER 35 LF	
	(I20 LF / 35 LF)= 4 TREES	4 TREES (I EXISTING
§ 138-12.304(B)	I ORNAMENTAL TREE PER 60 LF	
	(120 LF / 60 LF) = 2 TREES	2 PROPOSED TREES

Include Road and Pathway Sight Distance Lines per the attached City Details.

PROPOSED PLANT SCHEDULE							
DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
£+)	GIN	6	GINKGO BILOBA `AUTUMN GOLD`	AUTUMN GOLD MAIDENHAIR TREE	2.5" - 3" CAL	B&B	AS SHOWN
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	QUE	4	malus x 'Indian summer'	INDIAN SUMMER CRABAPPLE	2.5" - 3" CAL	B&B	AS SHOWN
	CER	2	CERCIS CANADENSIS	EASTERN REDBUD	2.5" - 3" CAL	B&B	AS SHOWN
EVERGREEN TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
	THU	12	THUJA X `GREEN GIANT`	GREEN GIANT ARBORVITAE	8'-10' (2" DBH MINIMUM FOR REPLACEMENT TREES)	B&B	AS SHOWN
EVERGREEN SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
\otimes	ILE	8	ILEX CRENATA 'COMPACTA'	DWARF JAPANESE HOLLY	24" - 30"	B&B	AS SHOWN
\odot	ILEX	16	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	24" - 30"	POT	AS SHOWN

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

2 (40" dbh)

I (20" dbh)

I (20" dbh)

Tree (>24" o

IRRIGATION NOTES:

- I. IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.
- 2. ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERLING WILL ONLY OCCUR
- BETWEEN THE HOURS OF 12:00 AM AND 5:00 AM.

 3. IRRIGATION OVERSPRAY SHALL NOT BE BROADCAST ONTO CITY PATHWAYS

MAINTENANCE NOTES:

- I. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE.
- 2. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY TO REMOVE DEAD OR DISEASED BRANCHES. SUBSEQUENT PRUNING SHALL ASSURE PROPER
- MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE.

 3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE REMOVED IMMEDIATELY AND REPLACED WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. FOR PURPOSES OF THIS SECTION, THE PLANTING SEASON FOR DECIDUOUS PLANTS SHALL BE BETWEEN MARCH I AND JUNE I AND FROM OCTOBER I UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH I AND JUNE I. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY
- OWNERS OF THE NEED TO REPLACE DEAD, DAMAGED, OR DISEASED MATERIAL.

 4. THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH THE AFOREMENTIONED PROCEDURES, ANY REVISIONS TO OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS OF THIS SECTION 138-12.109 WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE A
- VIOLATION OF THIS ORDINANCE.

 5. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT A MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

ANDSCAPING NOTES

LANDSCAPING AREAS.

- I. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE
- WITHIN THE PLAN SET.

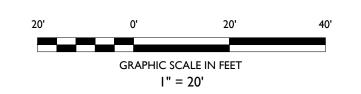
 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.
- THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH.
 THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED
- OTHERWISE WITHIN THE PLAN SET.

 5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S
- DIRECTION WITHIN AREAS OF DISTURBANCE.

 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED
- PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHÈRE THE SPEED LIMIT IS MORE THAN 35 MPH.) SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINIMUM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY
- ANY SUCH TREES. THE ABOVE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.

 8. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER

HILLS MUST INSPECT ALL LANDSCAPING PLANTINGS.



UNIT NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY

THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY.

FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE,

NOT APPROVED FOR CONSTRUCTION

JELDgn
con, MA
ford, NJ

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BLVD (s)

L ID: 15-09-476-030 ALTON BOULEVARD F ROCHESTER HILLS

PARCEL ID: 1360 WALT CITY OF RO





engineering & design

CITY FILE #21-030 SECTION #9

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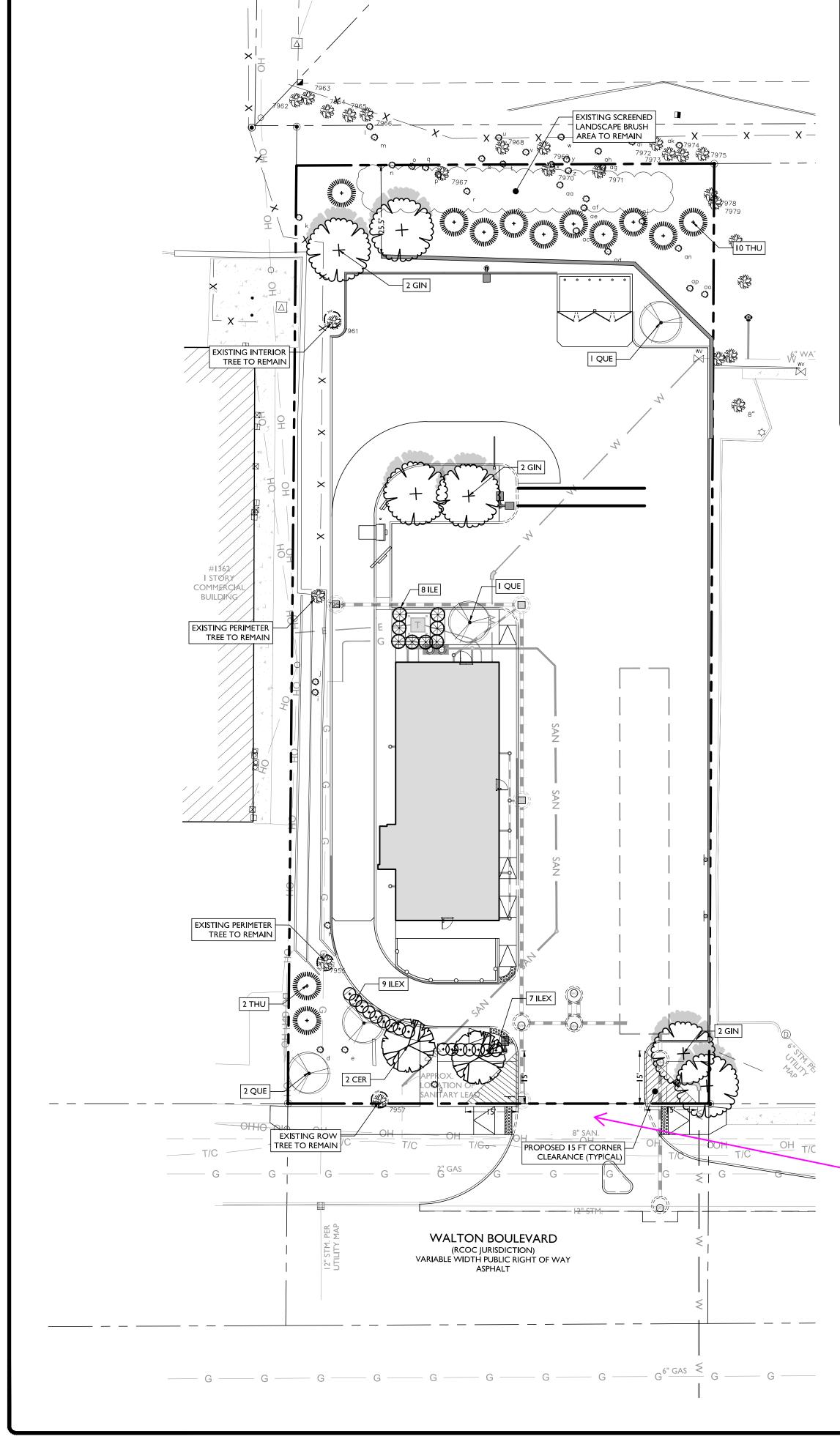
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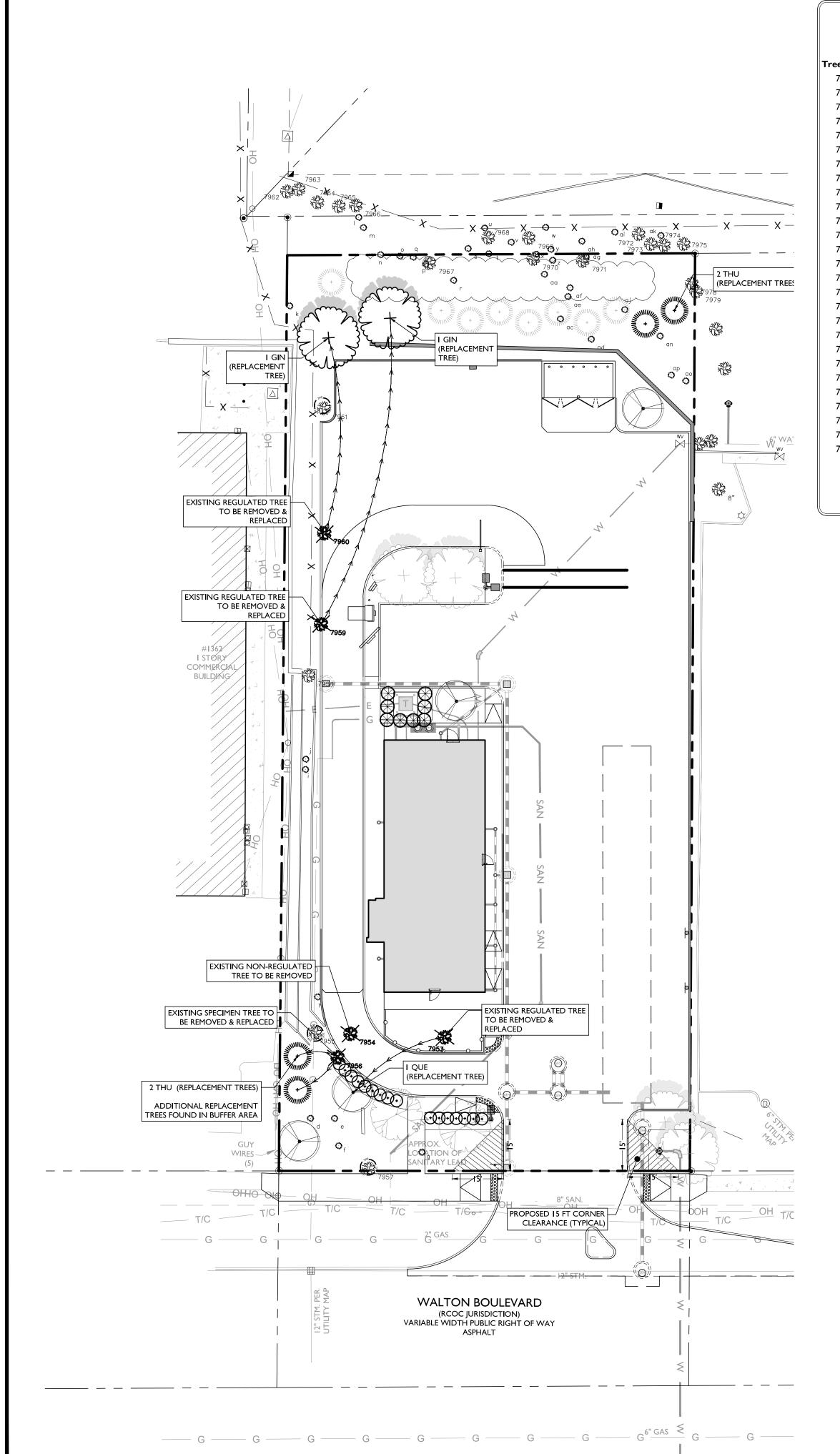
SCALE: I" = 20' PROJECT ID: DET-200412

LANDSCAPING PLAN

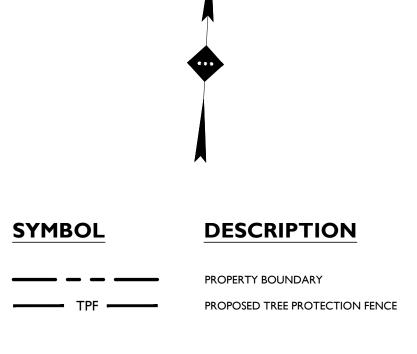
DRAWING:

C-10









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I (20" dbh)

IRRIGATION NOTES:

REMAINING:

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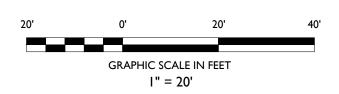
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- THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE
- WITHIN THE PLAN SET. 2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A
- MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED. 3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH.

THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE

- 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR
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- 6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS.
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- 8. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS MUST INSPECT ALL LANDSCAPING PLANTINGS.



NOT APPROVED FOR CONSTRUCTION



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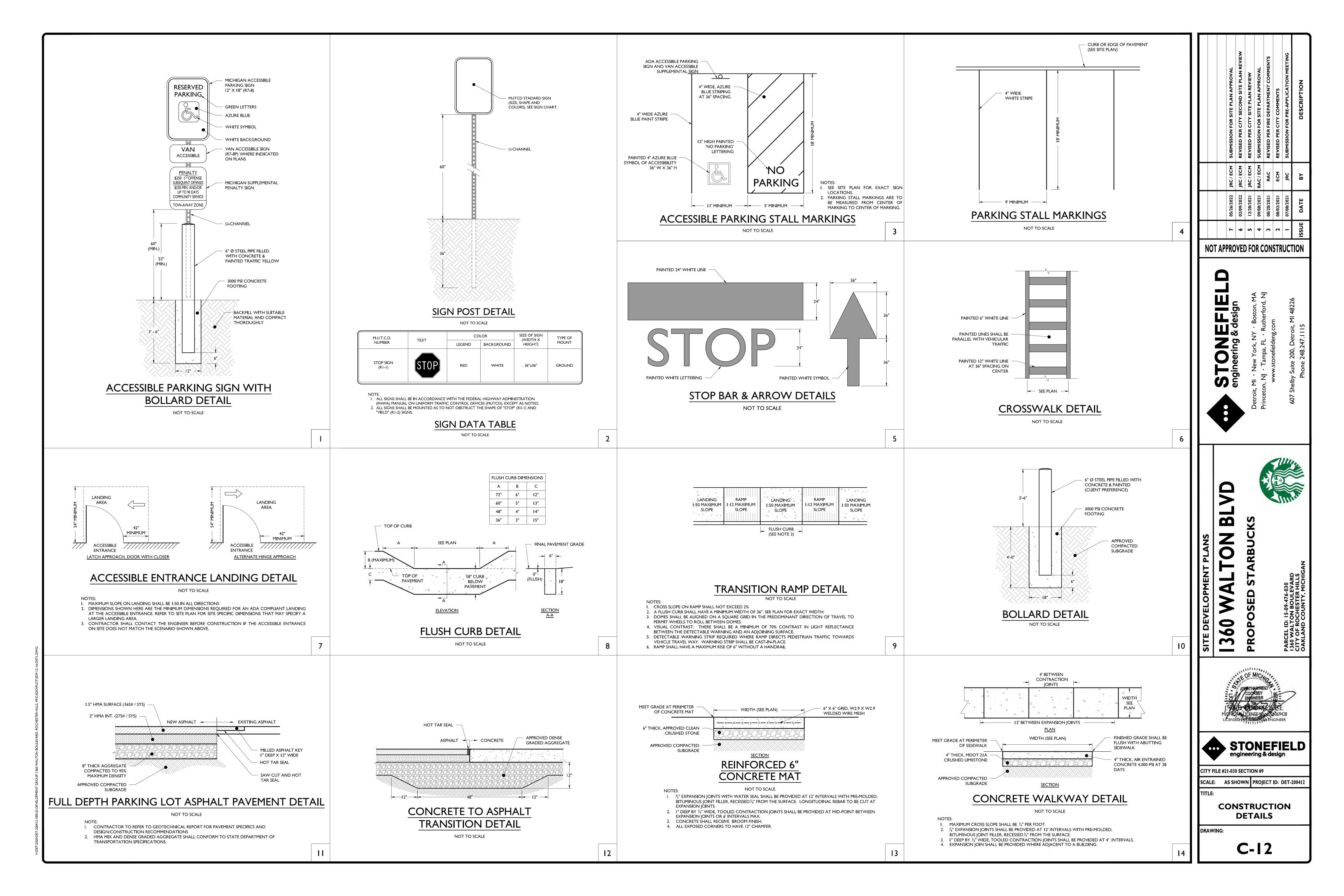
CITY FILE #21-030 SECTION #9

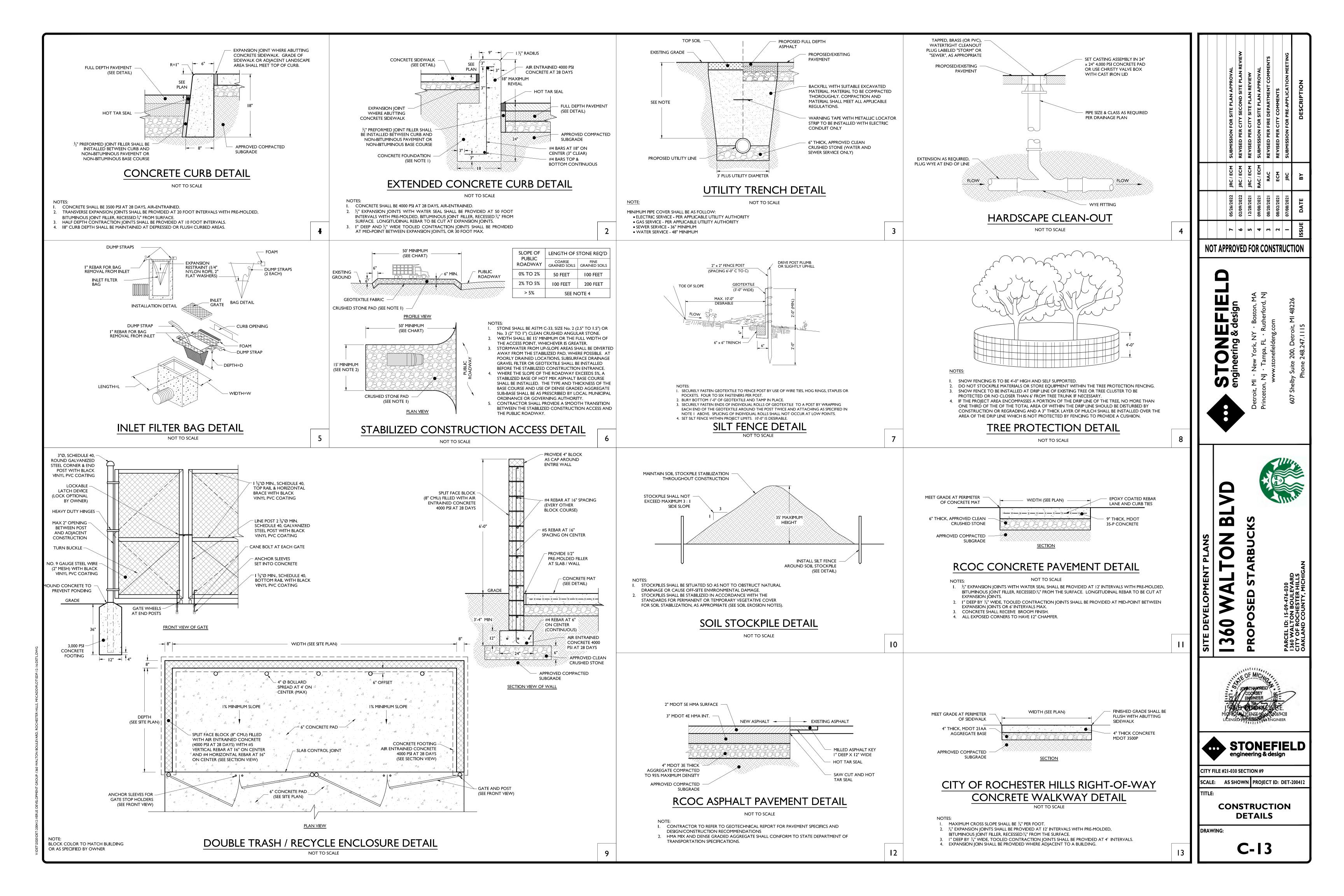
I" = 20' PROJECT ID: DET-200412

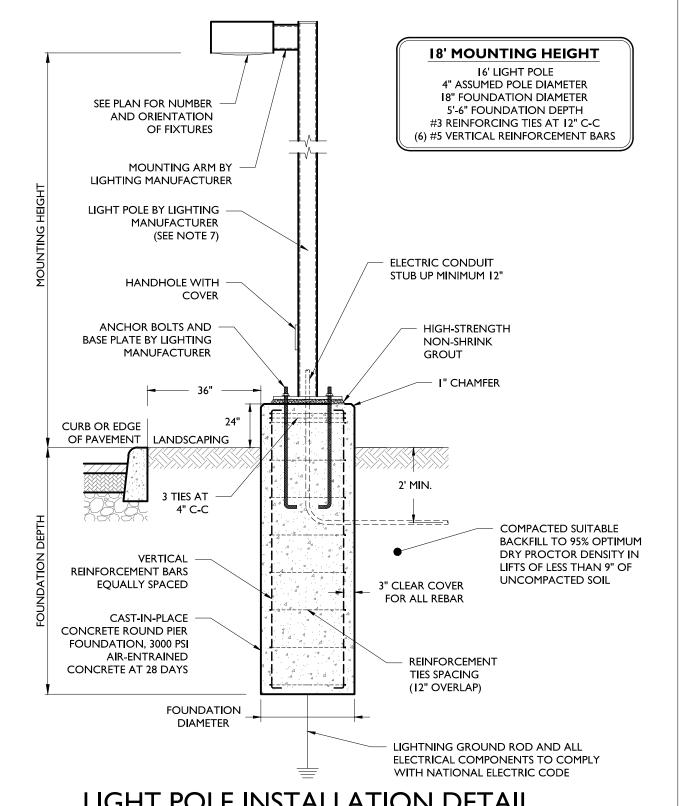
TREE REPLACEMENT

PLAN

DRAWING:







LIGHT POLE INSTALLATION DETAIL

NOT TO SCALE NOTES: I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL.

2. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR. ALL REBAR TO BE NEW GRADE 60 STEEL.

Mirada Medium Wall Sconce (XWM)

QUICK LINKS

features over-voltage, under-voltage, short-

circuit and over temperature protection.

Standard Universal Voltage (120-277 Vac)

Input 50/60 Hz or optional High Voltage

Operating temperature: -40°C to +50°C

Input power stays constant over life.

meets a minimum Category C Low

operation (per ANSI/IEEE C62.41.2).

High-efficacy LEDs mounted to metal-core

circuit board to maximize heat dissipation

Components are fully encased in potting

complies with FCC standards. Driver and

key electronic components can easily be

Optional integral emergency battery pack

the LED system, ensuring code compliance

A test switch/indicator button is installed

on the housing for ease of maintenance.

The fixture delivers 1500 lumens during

Integral passive infrared Bluetooth^T

motion and photocell sensor options.

Android configuration app. Updates and

modifications to the control strategy are

easily implemented via an intuitive app. • LSI's AirLink[™] Blue lighting control system

is a simple feature rich wireless Bluetooth

LIGHT FIXTURES 'E & F' SPECIFICATIONS

NOT TO SCALE

Fixtures operate independently and

can be commissioned via an iOS or

vides 90-minutes of constant power to

material for moisture resistance. Driver

accessed via hinged door.

emergency mode.

Controls

ii3) 372-3200 • ©2020 LSI Industries Inc. All Rights Reserved. Specifications subject to change without notice.

Optional 10kV surge protection device

Custom lumen and wattage packages

• 0-10V dimming (10% - 100%) standard

L80 Calculated Life: >100k Hours

Total harmonic distortion: <20%

(-40°F to +122°F).

Power factor: >.90

- I. PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER. 5. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX
- REOUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE). POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED
- 8. POUR TO BE TERMINATED AT A FORM.

Outdoor LED Wall Sconce

23 - 102

107 - 140

30 (13.6)

FEATURES & SPECIFICATIONS

Rugged die-cast aluminum housing

access door located underneath.

unit. Hinged die-cast aluminum wiring

Galvanized-steel universal wall mount

bracket comes standard with hinging

Optional pole-mounting bracket (XPMA)

permits mounting to standard poles.

Fixtures are finished with LSI's DuraGrip

polyester powder coat finishing process.

The DuraGrip finish withstands extreme

weather changes without cracking or

State-of-the-Art one piece silicone optic

sheet delivers industry leading optical

IP65 rated sealed optical chamber in 1

exceptional coverage and uniformity

Available in 5000K, 4000K and 3000K

with Peak intensity at 610nm.

in Types 2, 3, and Forward Throw (FT)

Silicone optical material does not vellow or

crack with age and provides a typical light

color temperatures per ANSI C78.377. Also

Available in Phosphor Converted Amber

High-performance programmable driver

LSI Industries Inc. 10000 Alliance Rd. Cincinnati, OH 45242 • www.lsicorp.com

control with an integrated gasket to provide

• Proprietary silicone refractor optics provide

peeling. Other standard LSI finishes

available. Consult factory.

transmittance of 93%.

Zero uplight.

Minimum CRI of 70.

Optical System

Shipping weight: 30 lbs in carton.

mechanism to easily access the junction

box wire connections without removing the

contains factory prewired driver and optical

Lumen Range

Construction

9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS.

10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.

Ordering Guide Performance Photometrics Dimensions

sensor module provides wireless control of

grouped fixtures based on motion sensors.

daylight or a fully customizable schedule.

Universal wall mounting plate easily mounts

directly to 4" octagonal or square junction

underneath the housing and provide quick & easy access to the electrical compartment

Optional terminal block accepts up to 12 ga

• LSI LED Fixtures carry a 5-year warranty.

Meets Buy American Act requirements

IP65 rated luminaire per IEC 60598.

IK08 rated luminiare per IEC 66262

3G rated for ANSI C136.31 high vibration

applications when pole mounted (using

optional XPMA bracket) or wall mounted

mechanical impact code
• DesignLights Consortium* (DLC) qualified

may be DLC qualified. Please check the DLC

Qualified Products List at www.designlights.

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org/QPL to confirm which versions are

IDA compliant; with 3000K or lower color

· Title 24 Compliant; see local ordinance for

Listed to UL 1598 and UL 8750.

temperature selection.

Suitable for wet Locations.

1 Year warranty on Battery Back-up option.

· 2 fasteners secure the hinged door

15' MOUNTING HEIGHT 13' LIGHT POLE 4" ASSUMED POLE DIAMETER 18" FOUNDATION DIAMETER SEE PLAN FOR NUMBER 5'-6" FOUNDATION DEPTH AND ORIENTATION #3 REINFORCING TIES AT 12" C-C OF FIXTURES (6) #5 VERTICAL REINFORCEMENT BARS MOUNTING ARM BY LIGHTING MANUFACTURER LIGHT POLE BY LIGHTING MANUFACTURER (SEE NOTE 7) ELECTRIC CONDUIT STUB UP MINIMUM 12" HANDHOLE WITH -ANCHOR BOLTS AND HIGH-STRENGTH BASE PLATE BY LIGHTING NON-SHRINK MANUFACTURER GROUT CURB OR EDGE OF PAVEMENT LANDSCAPING 2' MIN. 3 TIES AT 4" C-C COMPACTED SUITABLE BACKFILL TO 95% OPTIMUM DRY PROCTOR DENSITY IN VERTICAL LIFTS OF LESS THAN 9" OF REINFORCEMENT BARS UNCOMPACTED SOIL EQUALLY SPACED 3" CLEAR COVER FOR ALL REBAR CAST-IN-PLACE -CONCRETE ROUND PIER FOUNDATION, 3000 PSI AIR-ENTRAINED - REINFORCEMENT CONCRETE AT 28 DAYS TIES SPACING (12" OVERLAP) FOUNDATION DIAMETER LIGHTNING GROUND ROD AND ALL **ELECTRICAL COMPONENTS TO COMPLY** WITH NATIONAL ELECTRIC CODE LIGHT POLE INSTALLATION DETAIL NOT TO SCALE

- I. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR.
- ALL REBAR TO BE NEW GRADE 60 STEEL. PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX
- REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN I" TOLERANCE).
- POLE SHALL BE RATED FOR TO MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED
- 8. POUR TO BE TERMINATED AT A FORM.
- WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS. 10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.



LIGHT FIXTURES 'A-C' SPECIFICATIONS

Standard Notes:

NOT TO SCALE

LEDA Outdoor 120v: **3-712-2xx** 277v: **37-712-2**xx FIXTURE TYPE LOCATION . -24 Satin Nickel LIGHT SOURCE 1 x 10.1W LED, 3000K, CRI 90 LUMINAIRE POWER 13.0W at 120V RATED LIFE TEMPERATURES LUMEN OUTPUT 0-10v &Phase (ELV) Dimming - 50/60Hz 100% CONSTRUCTION Cast Aluminium and Acryli -2 Matte White Acrylic 7.25" Oiled Bronze (-22), Satin Nickel (-24) 16.50" Ext: 4.75" (Installer must provide a bead of caulk between fixture housing M.C: 8.25" From top of fixture ETL Wet, Conforms to UL STD 1598, Certified CAN/CSA, STD Order example for standard fixture: 3-712-224 (x- Voltage - xxx-Sequence # - x-Diffuser - xx-Finish) 3: 120v, 37: 277v Order example for optional color temperatures: 3-712-27224 27: 2700K, 35: 3500K, 40: 4000K 201 Railhead Road, Fort Worth, TX 76106 - Tel. (877) 607-0202 - www.oxygenlighting.com

LIGHT FIXTURE 'D' SPECIFICATIONS

TOP VIEW

SPECIFICATIONS

- 1. 4" FPT with 4" plain end adapters, single inlet and triple outlet

 2. Unit weight - w/cast iron covers: 376 lbs.;
- w/composite covers: 266 lbs. (For wet weight add 2,310 lbs.)
- 3. Maximum operating temperature
- 4. Capacities Liquid: 277 gal.; @100 GPM Grease: 1,895 lbs. @200 GPM Grease: 1,196 lbs.
- Solids: 69 gal.

 5. This unit does not require flow control for 100 GPM applications. Built-in Flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary. For gravity drainage applications only.

 Do not use for pressure applications.
- Cover placement allows full access to tank for proper maintenance. Vent not required unless per local code.
- 10. Engineered inlet and outlet diffusers are
- removable to inspect / clean piping.

 11. Integral air relief / Anti-siphon /
- Sampling access.

 12. Adjustable cover adapters provide up to 4" of additional height.

 13. Fixed outlet models (-FO) have inlet and
- outlet permanently welded at the factory in the straight-through (B) positions.

 14. Flow rates are based on 2-minute drain time.

 15. Safety Star®, access restrictor built into each
- cover adapter, prevents accidental entry to tanks (450 lb rating) **DIFFUSION FLOW TECHNOLOGY**

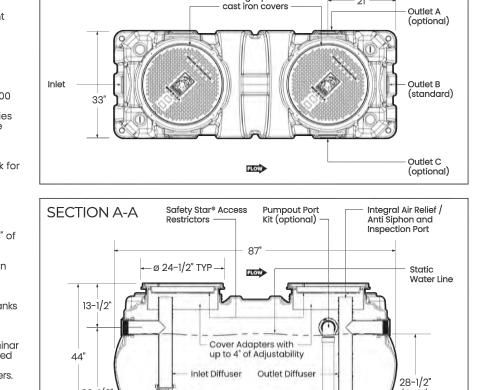
The inlet diffuser reduces turbulence, creates laminar low and allows the entire tank volume to be utilized for efficient grease separation and minimal disturbance to existing grease and sediment layers The inlet diffuser can be attached to any of the three inlets provided to ease job site piping layouts. The integral air relief / anti-siphon at the outlet unit during operation. The outlet diffuser can easily oe attached to any of the three outlets provided to

ease job site piping layouts. **ENGINEER SPECIFICATION GUIDE**

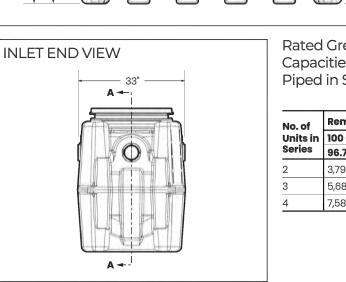
Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in Interceptor shall be furnished for above or below grade installation. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481.1, with adjustable cover adapters, Safety Star® access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor flov rate shall be 100 or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 GPM @ 200 GPM. Cover shall provide water/ gas-tight seal and have minimum 16,000 lbs. load capacity

CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.



water tight pickable



Rated Grease Capacities for Units Piped in Series

No. of Removal Efficiency Units in 100 GPM 200GPM Series | 96.7% 93.5% 3,790 lbs. 2,392 lbs. 5,685 lbs. 3,588 lbs. 7,580 lbs. 4,790 lbs.

page 4 of 4

PART #: 4055-001-02 DWG BY: B. Karrer DATE: 8/28/2020 RE © Copyright 2020 Schier Products Comp 500 Woodend Road | Edwardsville, KS 66111 | 913-951-3300 | schierproducts.com

GB-250 GREASE INTERCEPTOR DETAIL

NOT TO SCALE

engineering & design CITY FILE #21-030 SECTION #9 SCALE: AS SHOWN PROJECT ID: DET-200412 TITLE:

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DETAILS

Standard Details: -1 1/2" HMA, 5E03 1. Maximum grade of 8.33% along pathway [PG 58-22 (Final Grade)] (less than 5% is recommended). 92% to 96% of the Theoretical 2. 1% cross slope (i.e. super elevation) for Maximum Density (TMD) drainage off and away from pathway and -Apply bituminous bond tack graded shoulders (2% maximum cross-slope). coat SS-1H at an application 60' minimum center line radii for pathway rate of 0.10 gallons/sq.yd. horizontal alignment. or adjusted by the engineer 4. Provide a minimum of 3' horizontal clearance Shoulder (Typ.) as conditions warrant and 8' vertical clearance from all fixed -2 1/2" HMA, 4E03 objects and the edge of pathway surface. [PG 58-22 (Final Grade)] Relocation of existing objects (i.e. mail 92% to 96% of the Theoretical boxes, signs, etc.) shall be considered Maximum Density (TMD) incidental work items. Pathway ramps shall be constructed in -4" (CIP) of 21AA aggregate base accordance with MDOT standard detail R-28 (98% Maximum Density) Typical 8' Pathway Section Apply Pramitol 25E Series and shall have a minimum clear —Compacted existing subgrade or equivalent (as opening of 8' wide. (95% Maximum Density) approved by the 6. A clean saw cut joint shall be provided engineer) in wherever new pavement matches existing accordance with pavement (incidental work item). manufacturer's 7. Utility structures shall be adjusted in recommendations Minimum vertical clearance within accordance with the City of Rochester Hills the influence of the pathway standards and shall match the proposed grade of the pathway. 8. Pathway shall be 6 inch thick HMA or concrete through residential drives and 3' minimum horizontal clearance 9 inch thick HMA or 8 inch thick concrete between edge of pathway and all through commercial drives. fixed objects 9. Pathway asphalt shall be paid for as "Shared Use Path, HMA" when part of public improvement project. 10. Ramps and landings shall be 6 inch thick 1% cross slope for drainage — 8' Pathway concrete. off and away from pathway ADA detectable warning plates shall be and graded shoulders. Crosspreformed and brick red in color. Acceptable Graded slope shall not exceed 2%) products included ADA Solutions, Inc., Shoulder Armor-Tile, ej, or approved equal. Typical Pathway and Graded Shoulder Shoulder Drainage Profile

> CITY OF ROCHESTER HILLS PATHWAY CONSTRUCTION DETAILS

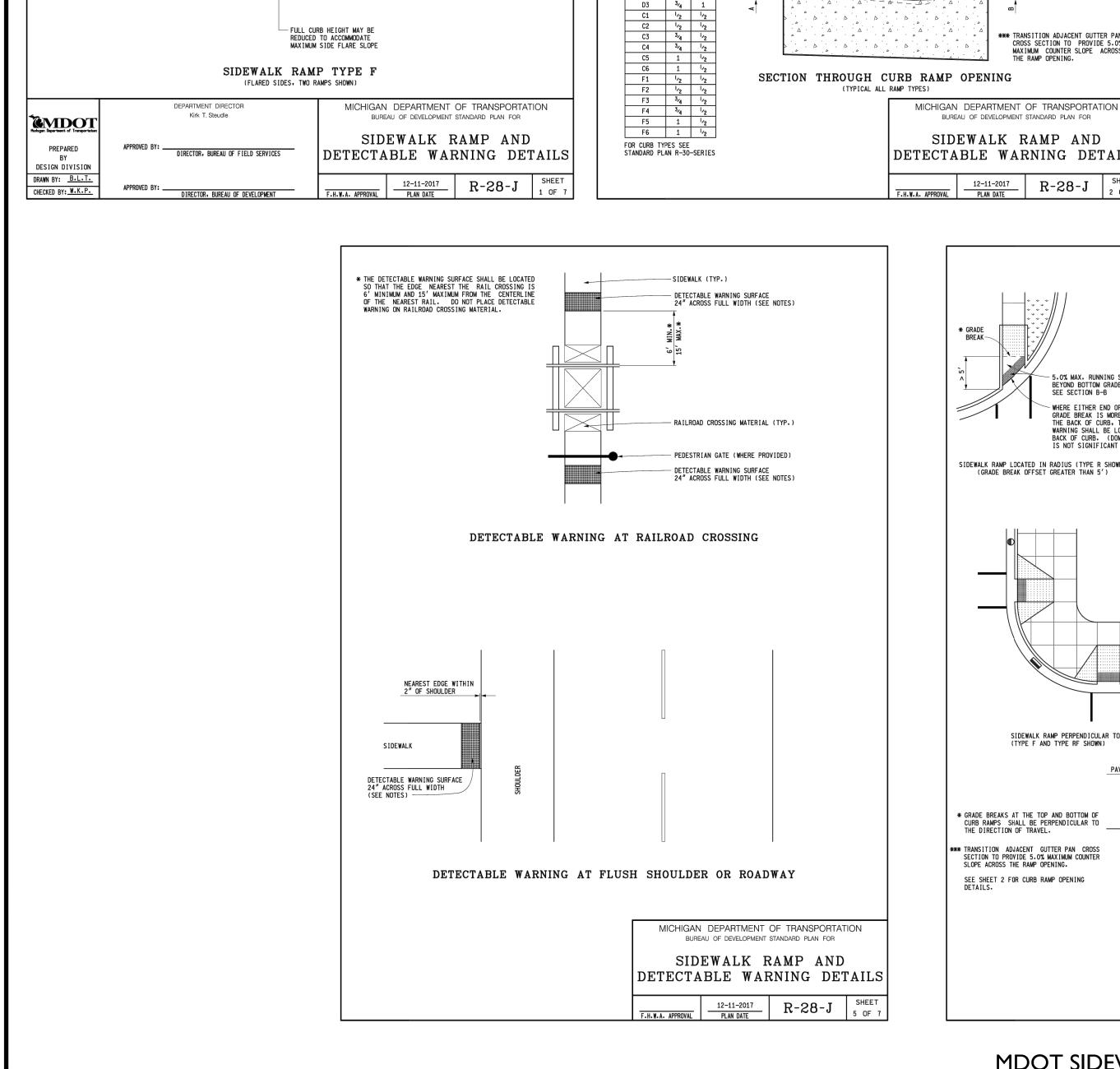
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STONEFIELD

CONSTRUCTION

DRAWING:

C-14



DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

REINFORCEMENT AS IN

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

"NON-WALKING" AREA

DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

RAMP SLOPE 5% - 7% (8.3% MAXIMUM) SEE NOTES

* LANDING

RAMP AND LANDING SLAB THICKNESSES SHALL BE AS CALLED FOR ON THE PLANS

RAMP SHALL END FLUSH WITH BACK OF CURB

**** TRANSITION ADJACENT GUTTER PAN CROSS SECTION TO PROVIDE 5.0% MAXIMUM COUNTER SLOPE ACROSS THE RAMP OPENING.

SIDEWALK RAMP TYPE RF

(ROLLED / FLARED SIDES)

SECTION A-A

*** 5.0% MAX.

* MAXIMUM LANDING SLOPE IS 2.0%. IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' \times 5'. SEE NOTES.

*** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

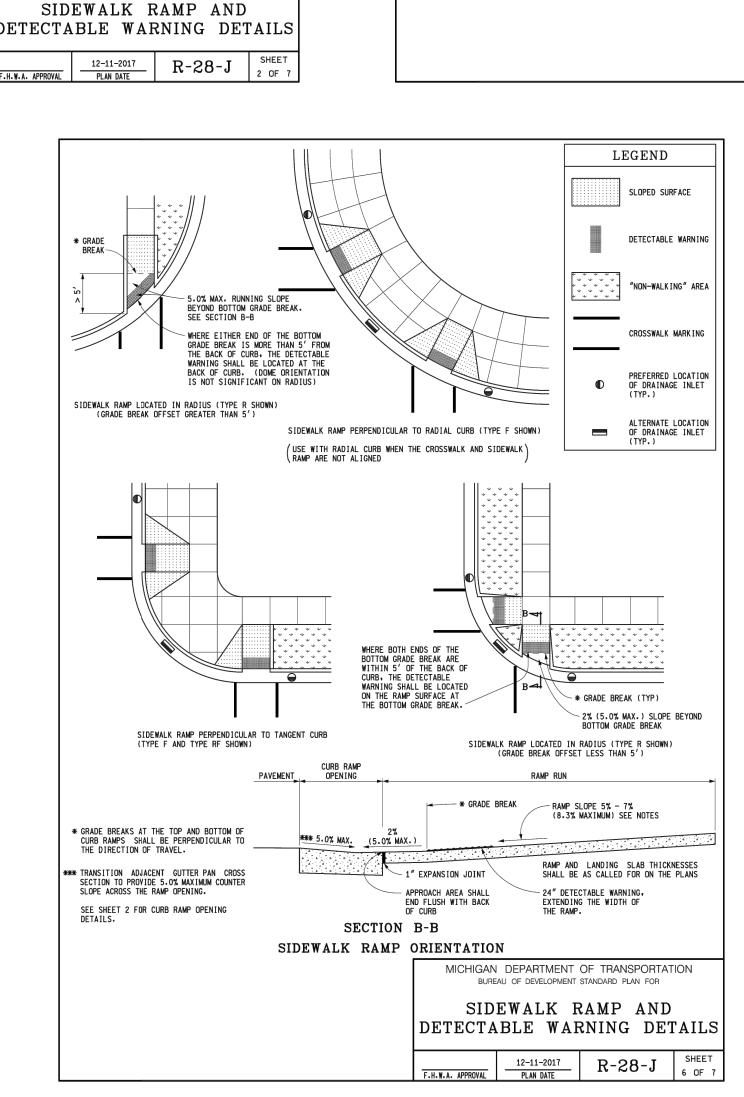
DETECTABLE WARNING SURFACE 24" ACROSS FULL WIDTH (SEE NOTES)

"NON-WALKING" AREA

SIDEWALK RAMP TYPE R

(ROLLED SIDES)

* LANDING



* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS $5^\prime \times 5^\prime \cdot$ SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.

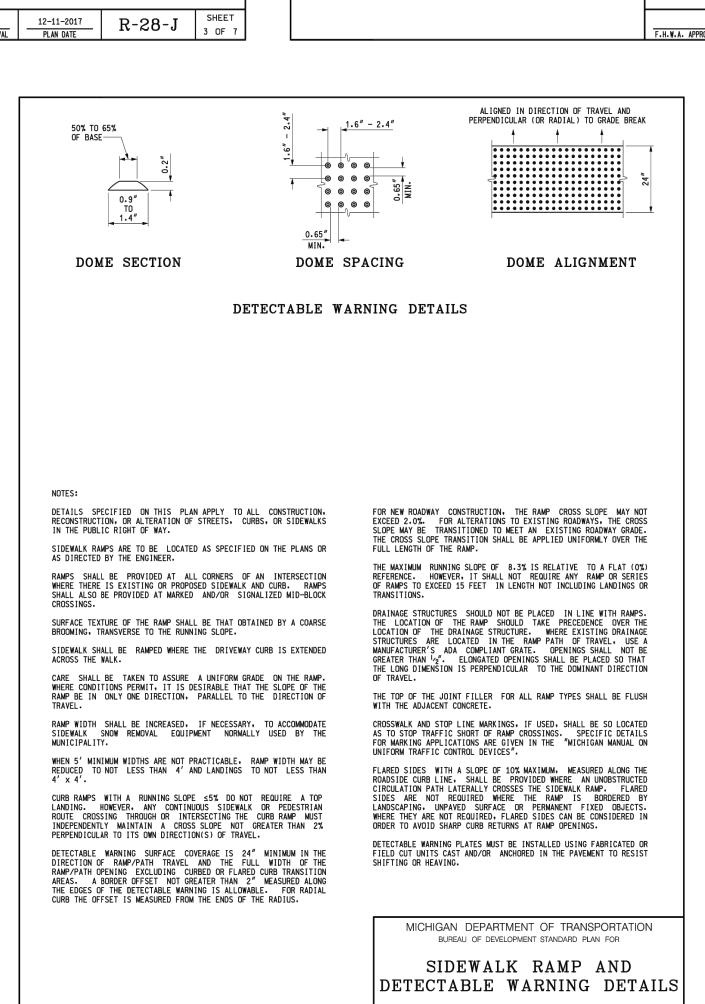
SIDEWALK RAMP TYPE P (PARALLEL RAMP)
DO NOT USE IN AREAS WHERE PONDING MAY OCCUR

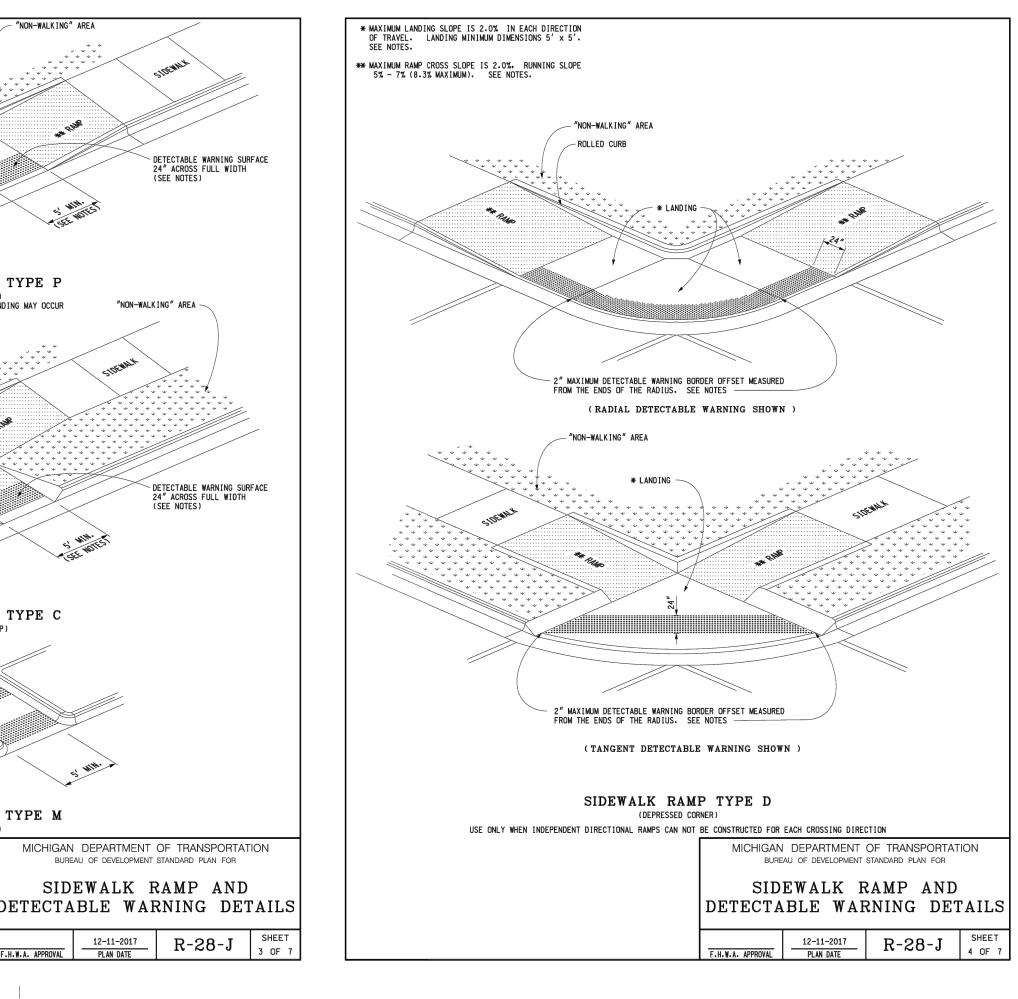
SIDEWALK RAMP TYPE C (COMBINATION RAMP)

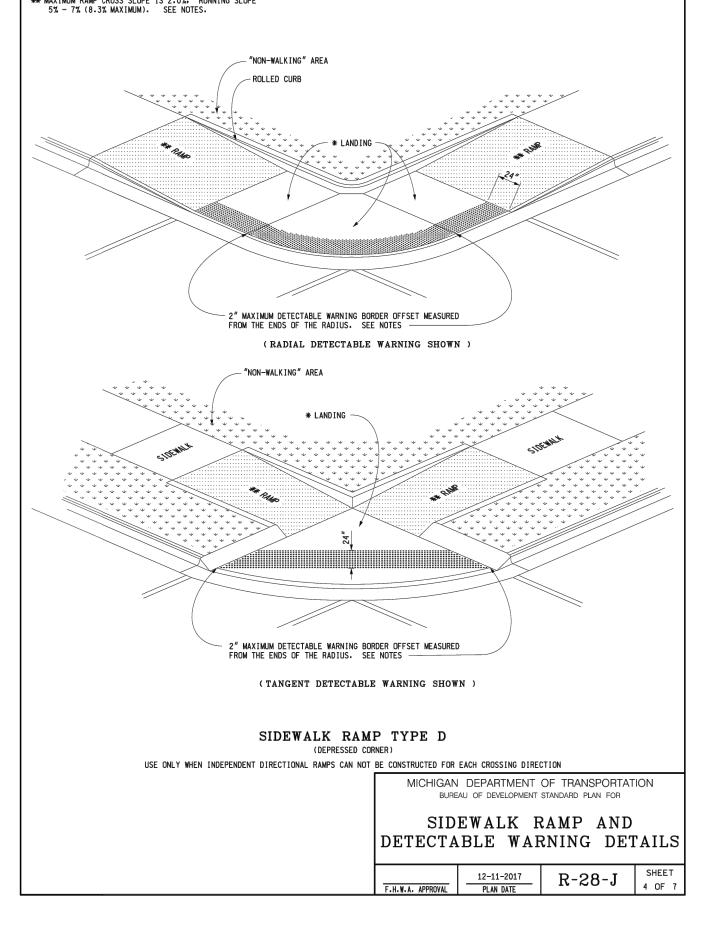
SIDEWALK RAMP TYPE M

(MEDIAN ISLAND)

DETECTABLE WARNING SURFACE 24"
ACROSS FULL WIDTH IF MEDIAN WIDTH
IS AT LEAST 6'-0". OTHERWISE NO







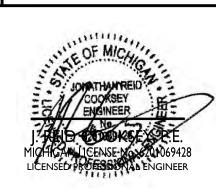
R-28-J SHEET



NOT APPROVED FOR CONSTRUCTION



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CITY FILE #21-030 SECTION #9 SCALE: AS SHOWN PROJECT ID: DET-200412

CONSTRUCTION

DETAILS DRAWING:

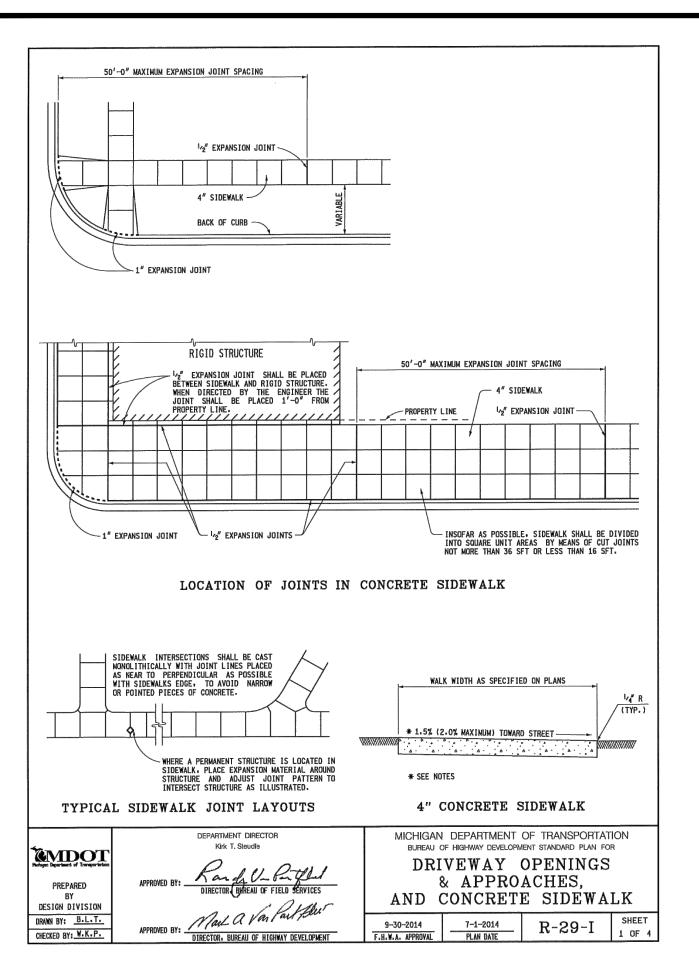
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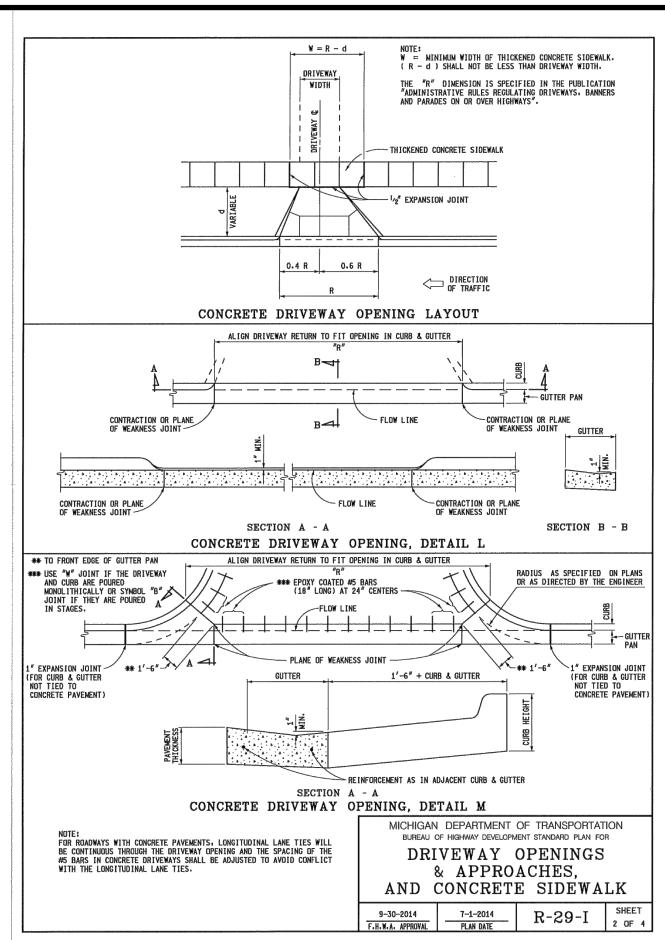
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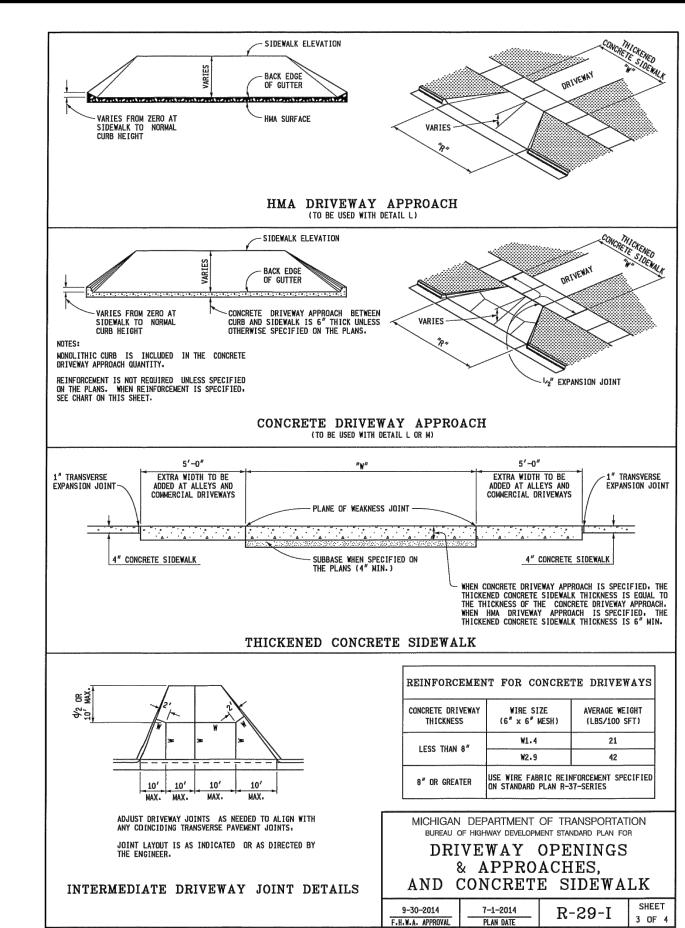
C-15

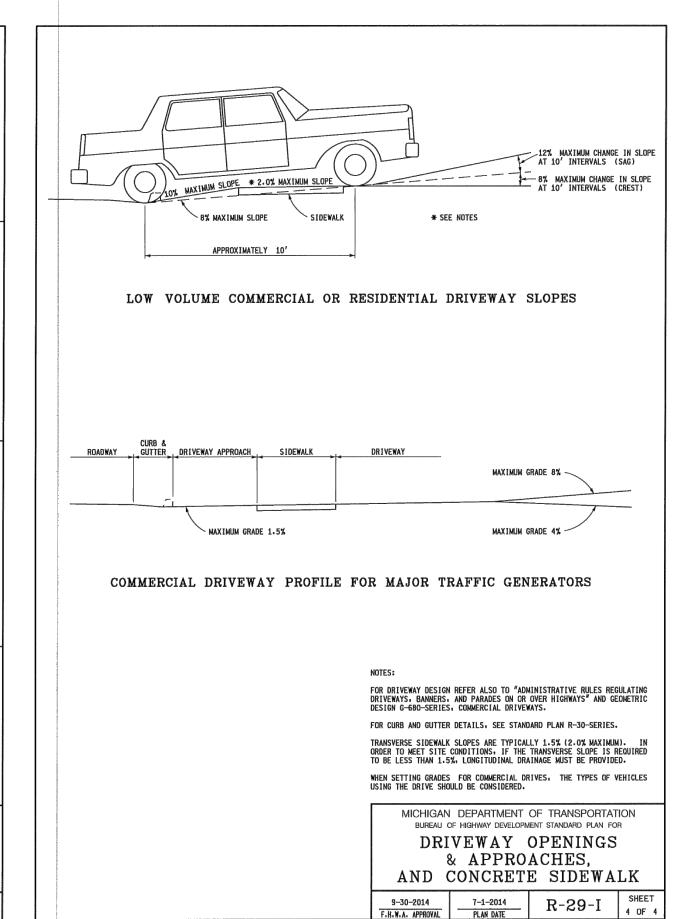
NOT TO SCALE

MDOT SIDEWALK RAMP AND DETECTABLE WARNING DETAILS (R-28-J)



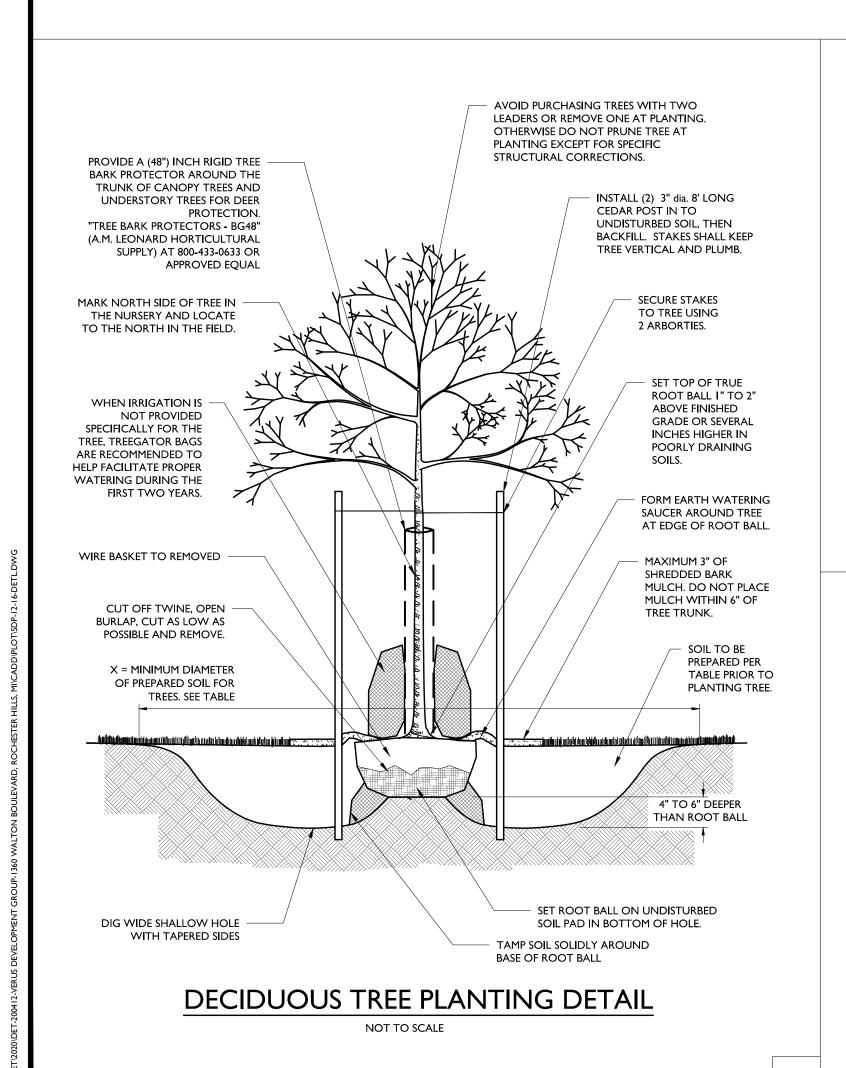


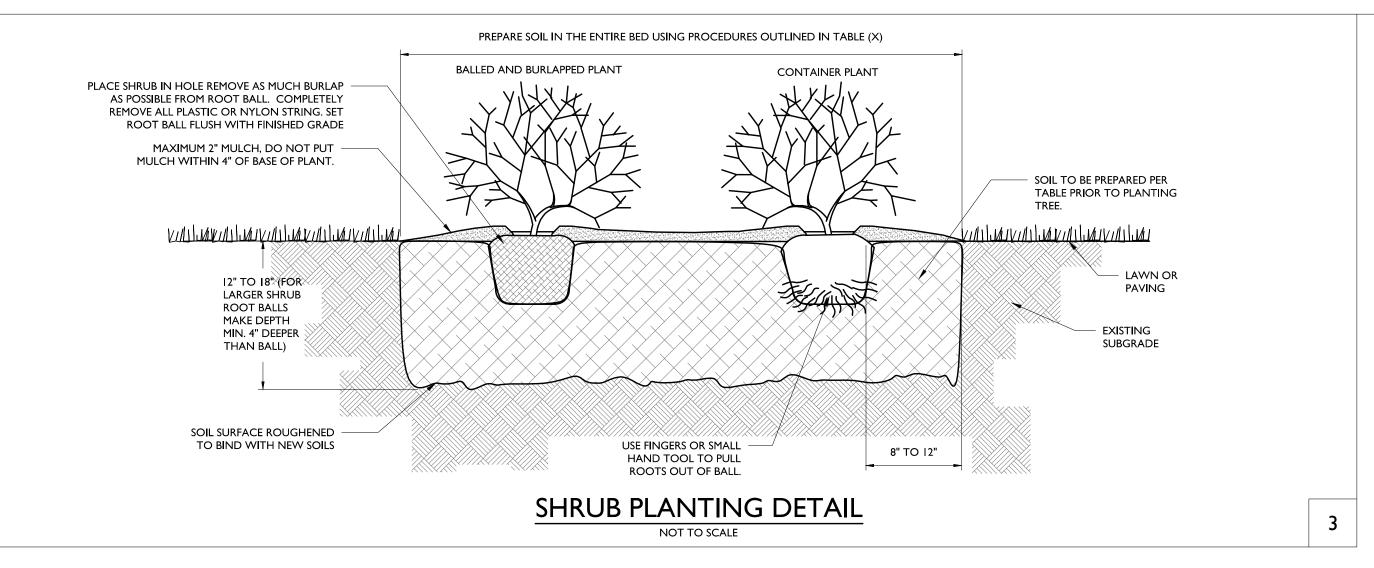


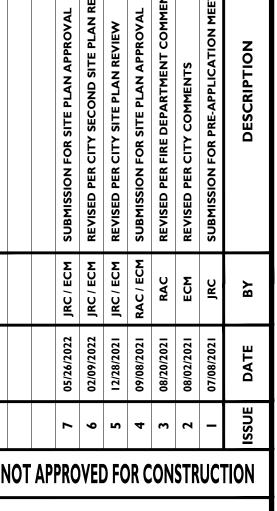


DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK (R-29-I)

NOT TO SCALE

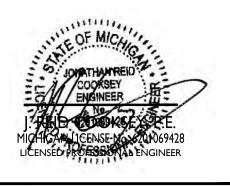








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CITY FILE #21-030 SECTION #9

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SCALE: AS SHOWN PROJECT ID: DET-200412

CONSTRUCTION DETAILS

DRAWING:

C-16

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CITY FILE #21-030 SECTION #9

DRAWING:

LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.

5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE

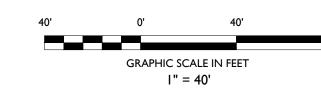
DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE

CONTRACTORS EXPENSE.

8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS

PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.

11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED



GENERAL NOTES

I. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION.

2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND

ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.

3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY

LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION,

 THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN,

7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE

REFLECTED WITHIN THE PLAN SET.

9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN

ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE

SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES. 12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC.
BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

C-17

SIGHT DISTANCE PLAN

STONEFIELD engineering & design

I" = 40' PROJECT ID: DET-200412