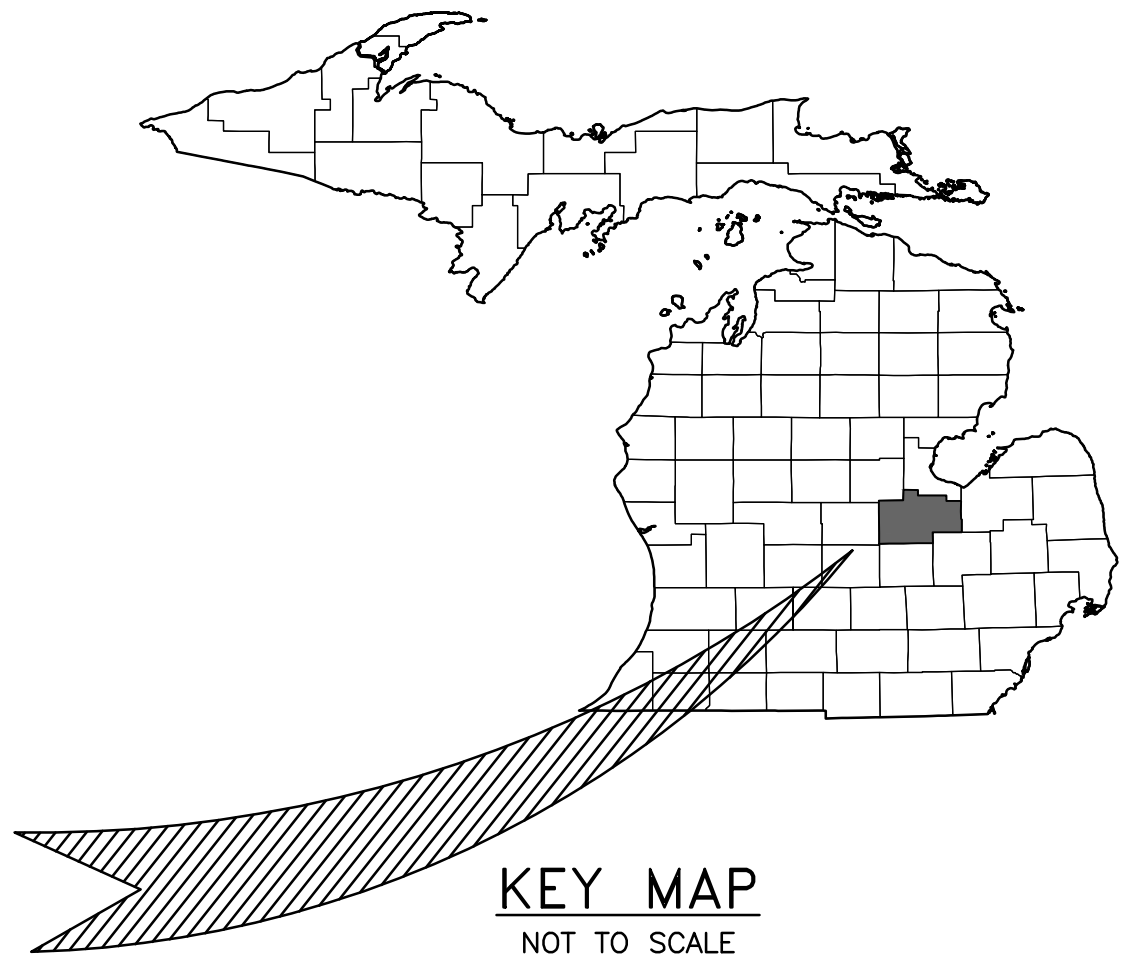


SITE IMPROVEMENT PLANS
FOR
SAVE-A-LOT PHASE 3
3399 E Holland Road
CHARTER TOWNSHIP OF BUENA VISTA
SAGINAW COUNTY, MICHIGAN



KEY MAP
NOT TO SCALE

SITE LOCATION
SECTION 29, T12N, R5E,
SAGINAW COUNTY
3399 E HOLLAND ROAD
SAGINAW, MI

ISSUE FOR BID AUGUST 28, 2026

TOWNSHIP CONTACTS:

BUENA VISTA DEPARTMENT OF PUBLIC WORKS
1160 SOUTH OUTER DRIVE
SAGINAW, MI 48601
TELEPHONE: (989) 752-1476
TELEPHONE: (540) 261-1444

WATER & SEWER
MICHAEL LOUDERMILK
MICHAEL.LOUDERMILK@BUENAVISTA.GOV

BUENA VISTA TOWNSHIP
1160 SOUTH OUTER DRIVE
SAGINAW, MI 48601
TELEPHONE: (989) 754-6536

BUILDING DEPARTMENT

BUENA VISTA TOWNSHIP
3945 E. HOLLAND AVE
SAGINAW, MI 48601
TELEPHONE: (989) 754-6536 X2330

TOWNSHIP SUPERINTENDENT
TORRIE L LEE
SUPERINTENDENT@BVCT.ORG

UTILITY CONTACTS:

CONSUMERS ENERGY
2400 WEISS STREET
SAGINAW, MI 48602
TELEPHONE: (989) 791-5904

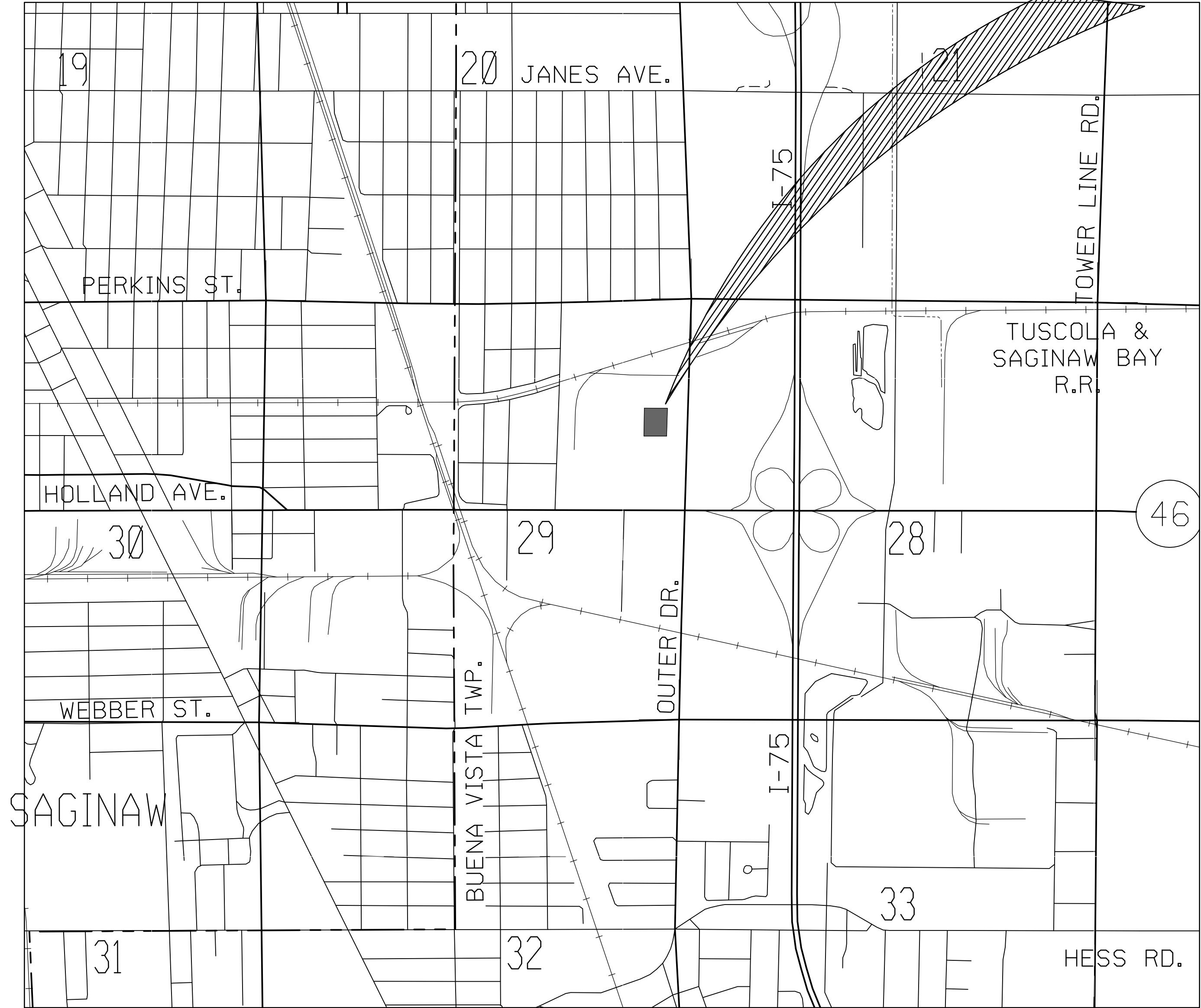
GAS & ELECTRIC

SBC
309 SOUTH WASHINGTON AVE
ROOM 525A
SAGINAW, MI 48607
TELEPHONE: (989) 776-4058

TELEPHONE

CHARTER COMMUNICATIONS
2525 STATE STREET
SAGINAW, MI 48602
TELEPHONE: (989) 497-2490

CABLE TV



LOCATION MAP
NOT TO SCALE

SHEET INDEX	
SHEET NO.	SITE SHEETS
C-0.0	COVER SHEET
C-1.0	GENERAL NOTES AND LEGEND
C-2.0	EXISTING CONDITIONS AND DEMOLITION PLAN
C-3.0	PROPOSED SITE AND UTILITY PLAN
C-3.1	PROPOSED GRADING AND SESC PLAN
C-4.0	SITE DETAILS
C-4.1	ELECTRICAL DETAILS



500 Griswold Avenue, Suite 2500
Detroit, MI 48226
313.961.3650
www.wadetrim.com

PREPARED UNDER THE SUPERVISION OF:

EXISTING	PROPOSED
CABLE TV	
CABLE TV POLE	
CABLE TV PEDESTAL	
OVERHEAD CABLE TELEVISION	—CTV—CTV—CTV—CTV—
UNDERGROUND CABLE TELEVISION	—UCTV—UCTV—UCTV—UCTV—
ELECTRICAL	
CIRCUIT BREAKER PANEL	
HANDHOLE	
MANHOLE	
OUTLET	
PEDESTAL	
TRANSFORMER BOX	
METER	
POWER POLE	
TRANSFORMER TOWER	
OVERHEAD ELECTRIC	—E—E—E—E—
UNDERGROUND ELECTRIC	—UE—UE—UE—UE—
GAS	
VENT	
BLOW OFF	
FILLER PIPE	
MANHOLE	
METER	
STOP BOX	
SHUTOFF VALVE	
GAS	—G—G—G—G—
MONUMENTS	
IRON (FOUND)	
IRON (SET)	
BENCH MARK	
BRASS PLATE	
CONCRETE NAIL	
DRILL HOLE	
GOVERNMENT CORNER	
GPS MONUMENT	
IRON PIPE	
MONUMENT BOX	
MONUMENT	
MERE STONE	
NGS MONUMENT	
NAIL & TAG	
PINCH IRON	
PK NAIL	
RAILROAD SPIKE	
RIGHT-OF-WAY MARKER	
SPIKE	
SHIPS SPIKE	
T-IRON	
USGS MONUMENT	
CROSS CUT	
CROSS CUT IN MONUMENT	
WOOD STAKE	
OVERHEAD UTILITIES	
DEADMAN ANCHOR	
FLOOD LIGHT	
GUY WIRE ANCHOR	
GUY POLE	
LAMP POLE	
METAL LIGHT POLE	
ORNAMENTAL LIGHT	
POLE BOX	
POWER & LIGHT POLE	
POWER & TELEPHONE POLE	
TELE, CTV, PWR & LIGHT POLE	
TELE, CTV, & POWER POLE	
TELE, & CTV POLE	
TELE, CTV, & LIGHT POLE	
TELE., & LIGHT POLE	
TELE, POWER, & LIGHT POLE	
UTILITY POLE	
OVERHEAD CABLE TV & TELEPHONE	—CTV&T—
OVERHEAD ELECTRIC & CABLE TV	—E&CTV—
OVERHEAD ELECTRIC, CABLE TV AND TELEPHONE	—E&CTV&T—

EXISTING	PROPOSED
SANITARY SEWER	
CLEAN OUT	
PUMPSTATION MANHOLE	
SANITARY MANHOLE	
SEPTIC TANK	
SEWER VENT	
SEWER VALVE	
FORCEMAIN	—FM—FM—FM—FM—
SANITARY SEWER	—SS—SS—SS—SS—
SITE (MISCELLANEOUS)	
ABANDON ITEM	
ACCESSIBLE SYMBOL	
ADJUST ITEM	
FINISH GRADE	
FLOW ARROW	
PARKING CUNT	
RECONSTRUCT ITEM	
RELOCATE ITEM	
REMOVE ITEM	
SLOPE LABEL	
SPOT GRADE	
FLOOD LIGHT	
LAMP POLE	
LIGHT POLE (SINGLE LAMP)	
LIGHT POLE (DOUBLE LAMP 180°)	
LIGHT POLE (DOUBLE LAMP 90°)	
LIGHT POLE (THREE LAMP)	
LIGHT POLE (FOUR LAMP)	
ORNAMENTAL LIGHT POLE	
METAL LIGHT POLE	
STORM SEWER/DRAINAGE	
CATCH BASIN (ROUND GRATE)	
CATCH BASIN (SQUARE GRATE)	
CISTERN	
BOX CULVERT	
CULVERT HEADWALL	
CULVERT END SECTION	
DOWN SPOUT	
ROUND INLET	
SQUARE INLET	
STORM MANHOLE	
STORM SEWER STUB	
DITCH CENTERLINE	
FLOOD PLAIN	
STORM SEWER	—SS—SS—SS—SS—
TELEPHONE	
TELEPHONE POLE	
TELEPHONE MANHOLE	
TELEPHONE PEDESTAL	
COMMUNICATIONS HANDHOLE	
FIRE CALL	
POLICE CALL	
PHONE BOOTH	
OVERHEAD TELEPHONE	—T—T—T—T—
UNDERGROUND TELEPHONE	—UT—UT—UT—UT—
TOPOGRAPHIC FEATURES	
AIR CONDITION UNIT	
ANTENNA	
BASKET BALL POST	
BATTERY BOX	
BILLBOARD SIGN BASE	
CAMERA TOWER	
CLIMBING BARS	
COLUMN	
FENCE CORNER	
FILL PORT	
FLAG POLE	
FOUNTAIN	
GAS PUMP	
GAS TANK (UNDERGROUND)	
HEAT PUMP	

EXISTING	PROPOSED
TOPOGRAPHIC FEATURES (CONT.)	
HIGHWAY DELINEATOR	
LIGHT POLE BASE	
MAIL BOX	
MERRY-GO-ROUND	
MONITORING WELL	
NEWSPAPER BOX	
OIL WELL	
PARKING METER	
PIER	
PILING	
POST (ROUND)	
POST (SQUARE)	
ROCK	
RAILROAD SIGNAL	
SATELLITE DISH	
SIGN POST	
SLIDE (SPIRAL)	
SLIDE (STRAIGHT)	
SLIDE END	
SLIDE STEPS	
SPRINKLER HEAD	
SPRINKLER JUNCTION BOX	
STATUE	
SWING SET END	
TETHER BALL POLE	
TRAFFIC SIGNAL	
UNDERGROUND MARKER	
U/G MARKER CABLE	
U/G MARKER ELECTRIC	
U/G MARKER FIBER OPTIC	
U/G MARKER GAS	
U/G MARKER TELEPHONE	
VOLEY BALL POST	
WOOD STAKE	
UNDERGROUND UTILITIES	
UTILITY MANHOLE	
FIBER OPTIC	—FO—FO—
OIL	—OIL—OIL—
UNDERGROUND CTV & TELEPHONE	—UCTV&T—
UNDERGROUND ELEC. & CABLE TV	—UE&CTV—
UNDERGROUND ELEC. & TELEPHONE	—UE&T—
UNDERGROUND ELECTRIC, CABLE TV AND TELEPHONE	—UE&CTV&T—
VEGETATION	
CONIFEROUS BUSH	
CONIFEROUS TREE	
DECIDUOUS BUSH	
DECIDUOUS TREE	
MULTI-STEM CONIFEROUS TREE	
MULTI-STEM DECIDUOUS TREE	
PALM TREE	
STUMP	
BRUSH LINE	
EDGE OF WOODS	
HEDGE	
TREE ROW	

EXISTING	PROPOSED
WATER (DOMESTIC)	
BACKFLOW PREVENTER	
BLOW-OFF VALVE	
FAUCET	
FIRE DEPARTMENT CONNECTION	
FIRE HYDRANT	
GATE VALVE & BOX	
GATE VALVE & WELL	
GATE VALVE & WELL (DETROIT)	
INDICATOR VALVE POST	
METER	
METER PIT	
VALVE	
WATER LINE STUB	
WATER TOWER BASE	
WELL	
SHUT OFF VALVE	
DOMESTIC WATER	—DW—DW—DW—DW—
WATER (MISCELLANEOUS)	
RECLAIM WATER GATE VALVE	
SPRINKLER HEAD	
SPRINKLER JUNCTION BOX	
RECLAIM WATER	—REC—REC—REC—REC—
LINE WORK	
BOUNDARY LINE	—BL—BL—BL—BL—
BUILDING	—B—B—B—B—
BUILDING SETBACK	—BS—BS—BS—BS—
CHAIN LINK FENCE	—CLF—CLF—CLF—CLF—
FIELD	—F—F—F—F—
GARDEN	—G—G—G—G—
GRAVEL	—GR—GR—GR—GR—
GUARDRAIL	—GRD—GRD—GRD—GRD—
LANDSCAPE	—L—L—L—L—
ORNAMENTAL FENCE	—OF—OF—OF—OF—
PROPERTY LINE	—PL—PL—PL—PL—
RAILROAD TRACK CENTERLINE	—RTC—RTC—RTC—RTC—
RIGHT OF WAY	—R/W—R/W—R/W—R/W—
SECTION LINE	—SL—SL—SL—SL—
SHORE LINE	—S—S—S—S—
SILT FENCE	—SF—SF—SF—SF—
TO BE DEMOLISHED	—X—X—X—X—
TOP OF BANK	—TOB—TOB—TOB—TOB—
UTILITY/DRAINAGE EASEMENT	—UDE—UDE—UDE—UDE—
WALL	—W—W—W—W—
WETLAND	—WE—WE—WE—WE—
WOOD FENCE	—WF—WF—WF—WF—
PATTERNS	
4" CONCRETE	
GRAVEL	
HMA PAVEMENT	
EARTH (CROSS SECTION)	
ADA DETECTABLE WARNING	
PAVEMENT REMOVAL	
TOP LINE = PROPOSED TOP OF CURB	
BOTTOM LINE = GUTTER OF CURB	
PROPOSED SPOT ELEVATION	

GENERAL CONSTRUCTION NOTES

- STANDARD SPECIFICATIONS & DETAILS
CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CONTRACT DOCUMENTS ISSUED IN CONJUNCTION WITH THE PROJECT PLANS. ANY DEVIATIONS FROM THE APPROVED PLANS WILL NOT BE PERMITTED, UNLESS APPROVED BY ENGINEER.
- MISS DIG UTILITY ALERT
THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO CONTACT MISS DIG UTILITY PROTECTION SERVICE 811 TO VERIFY THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH THE UTILITY OWNERS REQUIREMENTS.
- PERMITS AND FEES
THE CONTRACTOR SHALL OBTAIN ALL PERMITS, INCLUDING THE PAYMENT OF ANY FEES OR BONDS, REQUIRED BY ANY FEDERAL, STATE, COUNTY, LOCAL, OR PRIVATE ORGANIZATIONS, PRIOR TO COMMENCING CONSTRUCTION. SEE SECTION 01 1100 OF THE PROJECT CONTRACT DOCUMENTS
- SOIL EROSION CONTROL, PART 91 OF P.A. 451 OF 1994
CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF PART 91, ACT 451 OF P.A. 1994, FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND WILL BE RESPONSIBLE FOR ALL MAINTENANCE UNTIL THE FINAL ACCEPTANCE OF THE PERMANENT CONTROL MEASURES BY OWNER.
- CONSTRUCTIONS PERMITS
CONSTRUCTION SHALL NOT BEGIN UNTIL ANY REQUIRED CONSTRUCTION PERMIT(S) HAVE BEEN OBTAINED.
- NOTIFICATION OF DRIVEWAY OWNERS
CONTRACTOR SHALL NOTIFY PROPERTY OWNERS 48 HOURS IN WRITING, IN ADVANCE OF ANY DRIVEWAY CLOSING DUE TO CONSTRUCTION OR RESTORATION.
- SURFACE RESTORATION
DISTURBED AREAS SHALL BE RESTORED IN STRICT COMPLIANCE WITH THE SOIL EROSION AND SEDIMENTATION SPECIFICATIONS AND TO THE SATISFACTION OF OWNER AND LOCAL MUNICIPALITY. COSTS FOR CLEANUP, RESTORATION WORK, AND OTHER INTERMEDIATE OPERATIONS SUCH AS, BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES, SHALL BE CONSIDERED INCLUSIVE AND AT NO ADDITIONAL COST TO OWNER. AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE A 4-INCH APPLICATION OF SCREENED TOPSOIL, FERTILIZED AND SEEDED. EXCESS MATERIALS, DEBRIS, AND SIMILAR ITEMS SHALL BE REMOVED FROM THE PROJECT AREA BY CONTRACTOR AND DISPOSED OF PROPERLY. GROUND SURFACES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER PRIOR TO FINAL APPROVAL.
- PROTECTION OF HAZARDOUS AREAS
EXCAVATION AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES, SNOW FENCE, OR OTHER APPROPRIATE MEANS. BARRICADES LEFT IN PLACE AFTER DARK SHALL BE LIGHTED.
- TREES ARE TO BE PROTECTED UNLESS OTHERWISE NOTED ON THE PLANS.
- UTILITY INFORMATION
UTILITY INFORMATION IS DELINEATED IN ACCORDANCE WITH THE LOCATIONS PROVIDED BY UTILITY OWNERS. ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR THE LOCATION AT WHICH THESE SERVICES EXIST. DIFFERING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- NON-STOPPAGE CLAUSE
CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION FOR EXTENDED PERIODS ONCE CONSTRUCTION HAS BEGUN WITHOUT APPROVAL OF OWNER.
- DISPOSAL OF EXCESS EXCAVATED MATERIAL
EXCESS EXCAVATED MATERIALS SHALL BE DISPOSED OF BY CONTRACTOR, WITH ALL PERMITS, PERMISSIONS, AND LOCATIONS PROVIDED BY CONTRACTOR. ADJACENT PROPERTY OWNERS SHALL BE GIVEN PREFERENCE FOR DISPOSAL SITES, BUT WRITTEN PERMISSION FOR DISPOSAL ON ADJACENT PROPERTY OWNERS SHALL BE PROVIDED TO OWNER PRIOR TO FINAL DISPOSAL.
- STORAGE OF MATERIALS
NO PARKING, OR STORAGE OF MATERIAL OR EQUIPMENT WILL BE ALLOWED WITHIN 10 FEET OF THE EDGE OF THE TRAVELED PORTION OF THE ROADWAY, AND THEN THE PROPER SIGNS AND BARRICADES SHALL BE REQUIRED.
- MONUMENTS
PROPERTY IRONS AND MONUMENTS, IF DISTURBED OR DESTROYED BY CONTRACTOR'S OPERATION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AT CONTRACTOR'S EXPENSE.

TRAFFIC CONTROL NOTES

- ROADWAY PERMITS
PERMITS FROM THE SAGINAW COUNTY ROAD COMMISSION AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION ARE REQUIRED FOR CONSTRUCTION WITHIN ROAD RIGHT-OF-WAY. IT IS CONTRACTOR'S RESPONSIBILITY TO SECURE NECESSARY PERMITS, POST NECESSARY BONDS, PAY FEES, AND OBTAIN REQUIRED INSURANCES. SEE SECTION 01 1100 OF THE PROJECT CONTRACT DOCUMENTS.
- THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS AMENDED, SHALL BE USED FOR ALL TRAFFIC CONTROL, INCLUDING FLAGGING AND LIGHTED ARROWS. CONTRACTOR SHALL OBTAIN SIGNED SIGNING SKETCHES FROM THE SAGINAW COUNTY ROAD COMMISSION.
- NO NIGHTTIME CLOSURES SHALL BE PERMITTED.
- NO PARKING OR STORAGE OF MATERIAL OR EQUIPMENT WILL BE ALLOWED WITHIN TEN (10') FEET OF THE TRAVELED PORTION OF PRIVATE, STATE AND/OR COUNTY ROADWAYS AND THEN THE PROPER SIGNS AND BARRICADES SHALL BE REQUIRED.
- CONTRACTOR IS TO MAINTAIN ALL EXISTING TRAFFIC SIGNS, RELOCATE IF NECESSARY, AND REPLACE AFTER CONSTRUCTION. THE SAGINAW COUNTY ROAD COMMISSION AND/OR THE MICHIGAN DEPARTMENT OF TRANSPORTATION MUST BE NOTIFIED OF ANY SIGN RELOCATION TO ASSURE THAT THE REPLACEMENT COMPLIES WITH THEIR STANDARDS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COSTS INCURRED BY THE SAGINAW COUNTY ROAD COMMISSION OR THE MICHIGAN DEPARTMENT OF TRANSPORTATION FOR ANY REQUIRED CORRECTIONS.
- TEMPORARY LANE CLOSURES MAY BE REQUIRED ALONG OUTER DRIVE. THE CONTRACTOR SHALL COMPLY WITH MDOT MAINTAINING TRAFFIC TYPICAL M0240a "TYPICAL TEMPORARY TRAFFIC CONTROL FOR A ONE-LANE CLOSURE ON AN UNDIVIDED MULTI-LANE ROADWAY, NO SPEED REDUCTION"

BUENA VISTA CHARTER TOWNSHIP, MI

3399 E HOLLAND RD

SAGINAW, MI 48601

SITE IMPROVEMENTS PLAN

SAVE-A-LOT PHASE 3

GENERAL NOTES AND LEGEND

ISSUED FOR: BID DATE: 8-28-26 BY: MDC

JOB NO. BVC2045

SHEET

C1.0

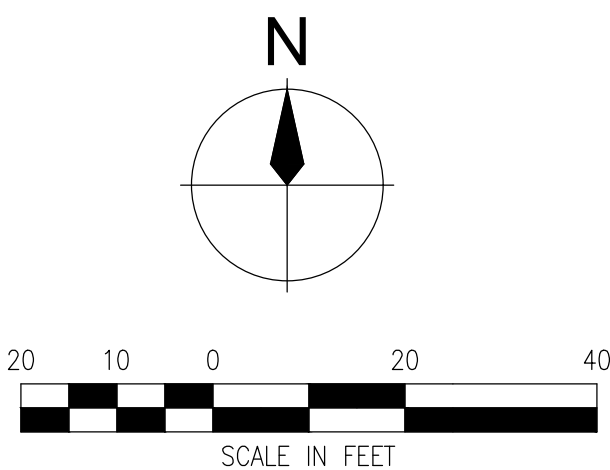
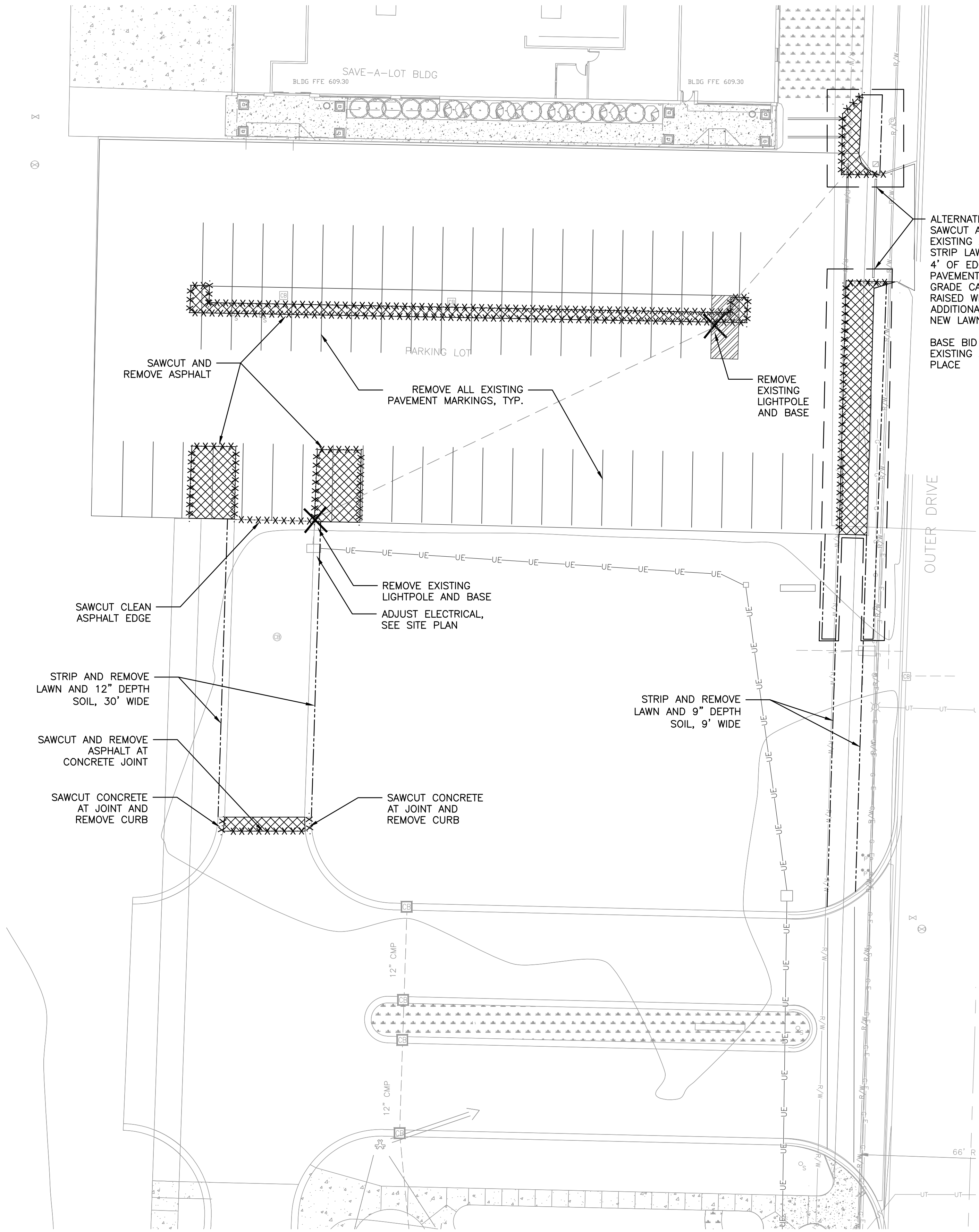
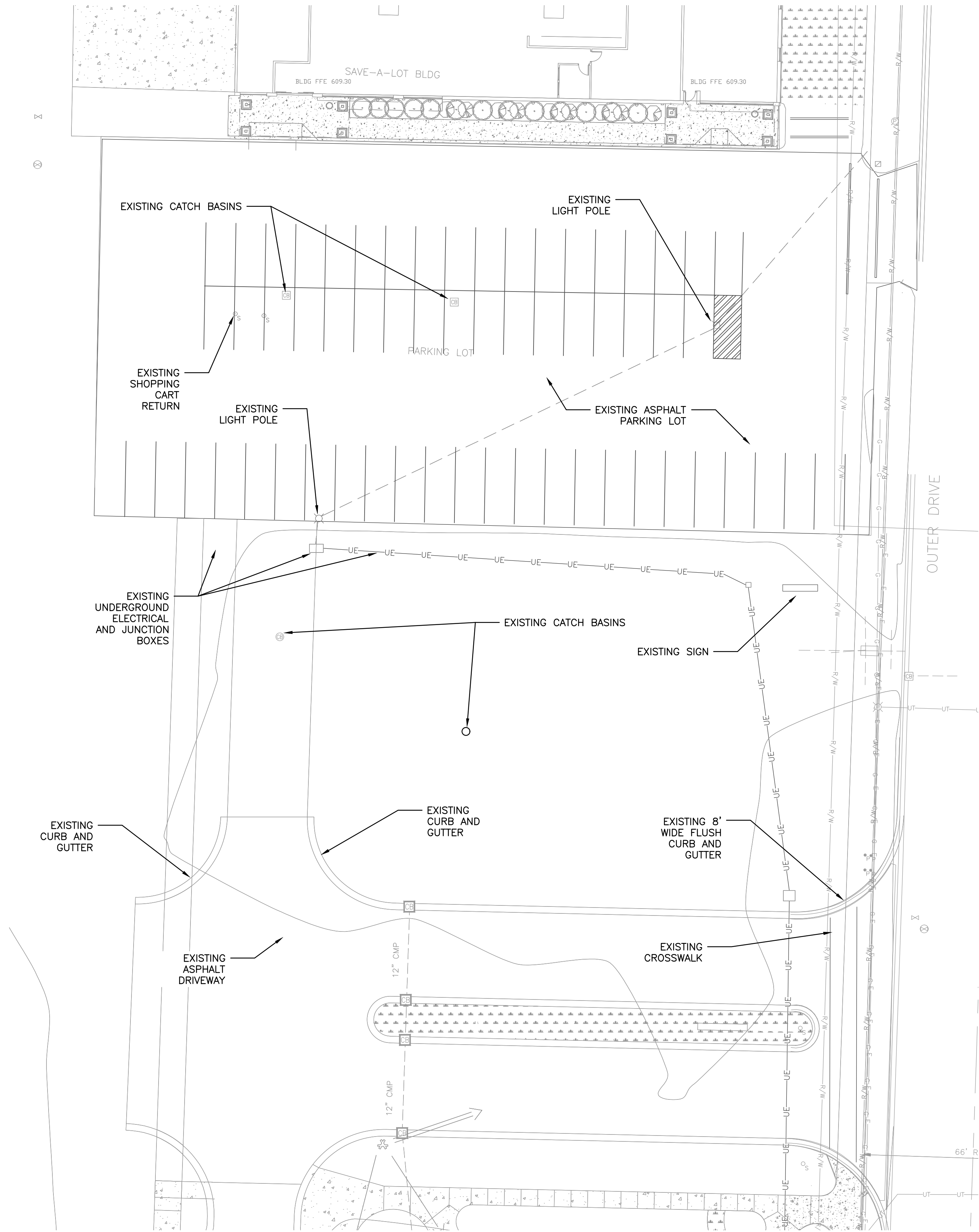


500 Griswold Ave.
Detroit, MI 48226
313.961.3950
www.wadetrtrim.com

PROJECT MANAGER: C:\PW\WORK\WADE-TRIM\MCLARK\01542443\C2.0 EX COND AND DEMO.DWG - C2.0 EX COND - PLOTTED 8/28/2026 2:22 PM BY: CLARK, MATTHEW



Know what's below.
Call before you dig.



BUENA VISTA CHARTER TOWNSHIP, MI
3399 E HOLLAND RD
SAGINAW, MI 48601
SITE IMPROVEMENTS PLAN
SAVE-A-LOT PHASE 3
EXISTING CONDITIONS AND DEMOLITION PLAN

ISSUED FOR: BID DATE: 8-28-26 MDC BY:

JOB NO. BVC2045

SHEET C2.0



REV#

DATE

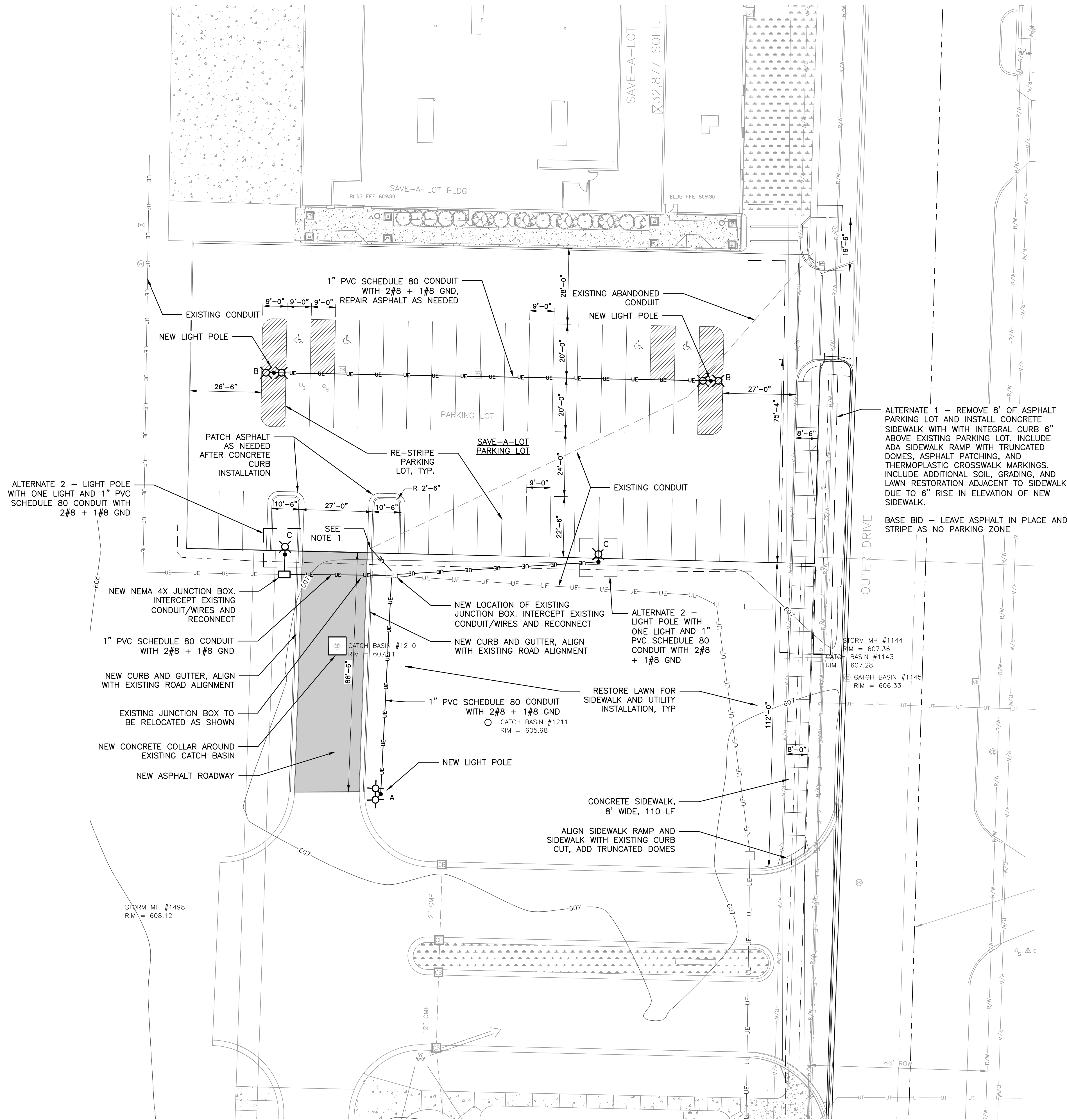
DESCRIPTION

BY

© Wade Trim Group, Inc. BUENA VISTA, SAVE-A-LOT PHASE 3

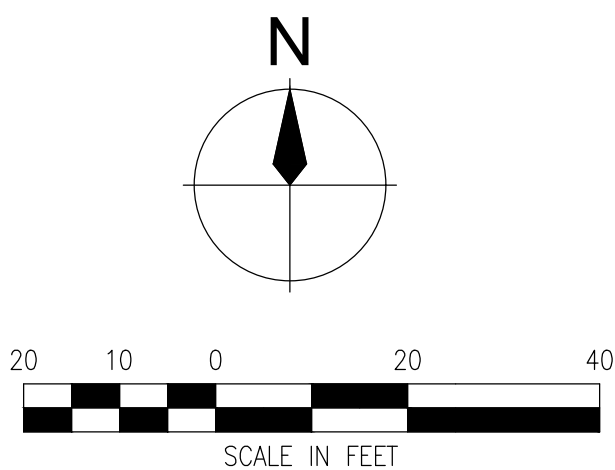


Know what's below.
Call before you dig.



NOTES

1. INTERCEPT EXISTING CONDUIT AND PULL BACK WIRING BETWEEN LIGHT POLES. PROVIDE NEW 1" PVC SCHEDULE 80 CONDUIT FROM INTERCEPTION POINT TO NEW LOCATION OF JUNCTION BOX. PROVIDE NEW 2#8 + 1#8 GND WIRES AND RECONNECT.
2. PROVIDE ALL ELECTRICAL MATERIALS AS REQUIRED PER NEC FOR A COMPLETE FUNCTIONAL SYSTEM.



BUENA VISTA CHARTER TOWNSHIP
3399 E HOLLAND RD
SAGINAW, MI 48601
SITE IMPROVEMENTS PLAN
SAVE-A-LOT PHASE 3
PROPOSED SITE AND UTILITY PLAN

ISSUED FOR: BID
DATE: 8-28-26
BY: MDC

JOB NO.
BVC2045

SHEET
C3.0



555 S. Saginaw Street, Suite 201
Flint, MI 48502
810.235.2555
www.wadetrिम.com

REV#	DATE	DESCRIPTION	BY



GEOTEXTILE FILTER FABRIC
PLACED UNDER GRATE.
FABRIC SHALL EXTEND BEYOND
PERIMETER OF GRATE, ALL SIDES.

INLET GRATE
CASTING
PAVEMENT SURFACE

NOTE:
TYP. ALL STRUCTURES. FABRIC
SHALL BE INSPECTED DAILY AND
REPLACED IF PLUGGED OR
RIPPED.

**TEMPORARY INLET
PROTECTION DETAIL**

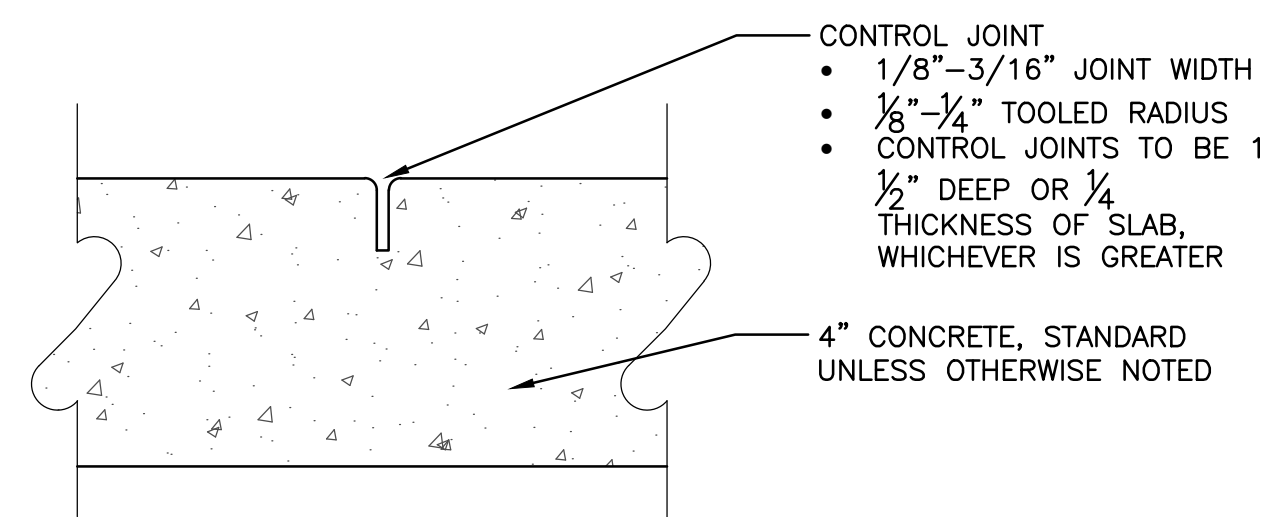
N.T.S.

C3.1

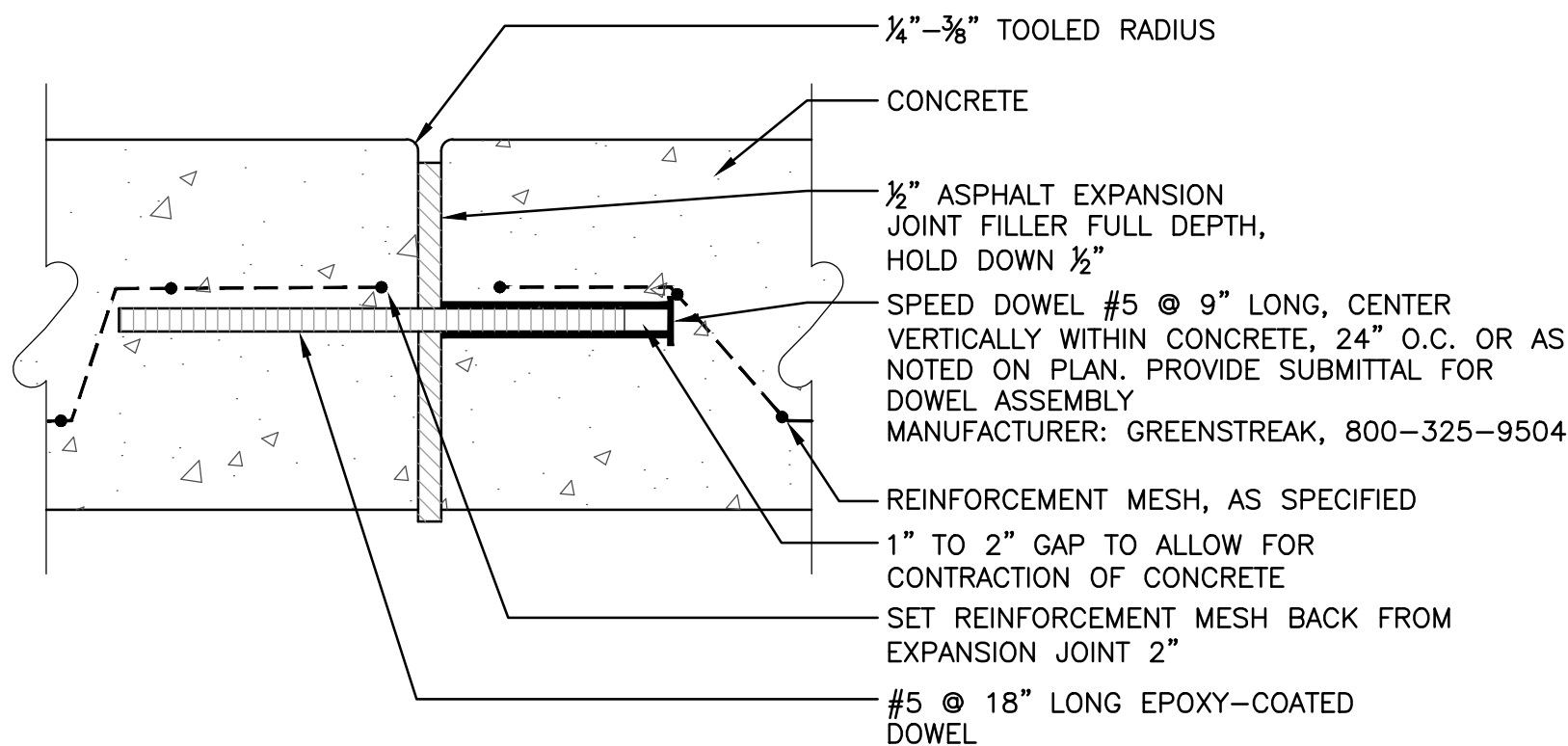
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PROJECT MANAGER: -
 FIELD BOOK INFORMATION: -
 PROJECT: PW-2024-001
 DRAWING: C3.1 GRADING PLAN
 DATE: 8/28/2024
 TIME: 2:33 PM
 BY: CLARK, MATTHEW

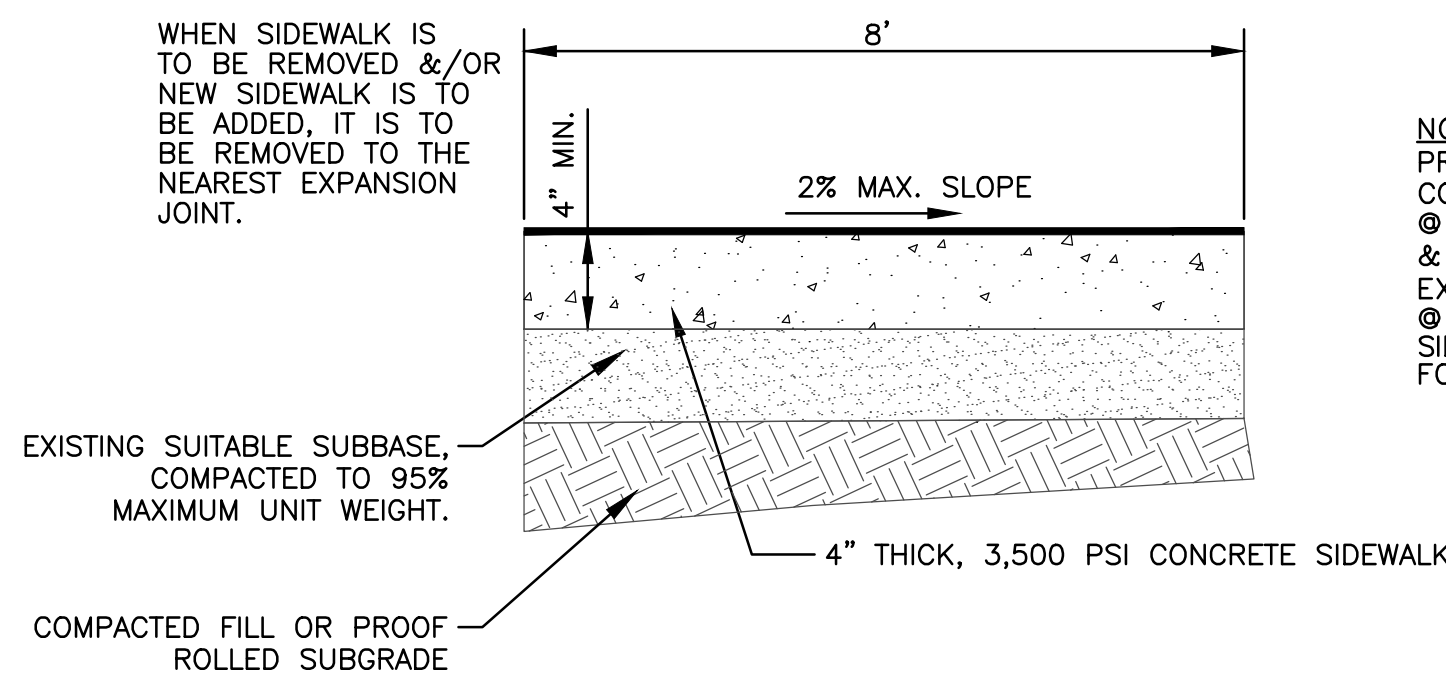




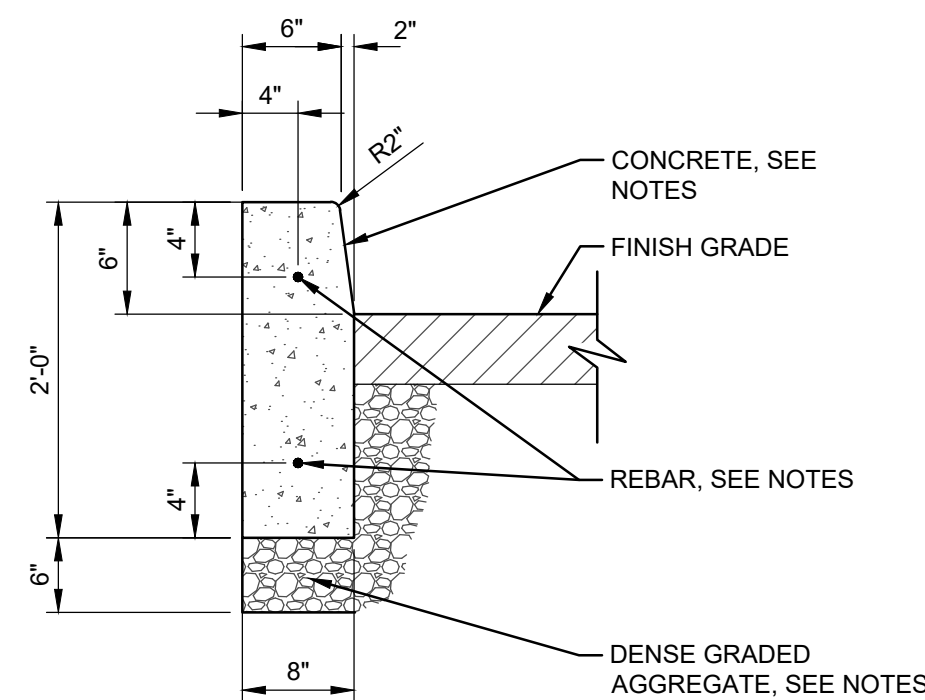
CONCRETE CONTROL JOINT
NO SCALE



EXPANSION JOINT SECTION
NO SCALE

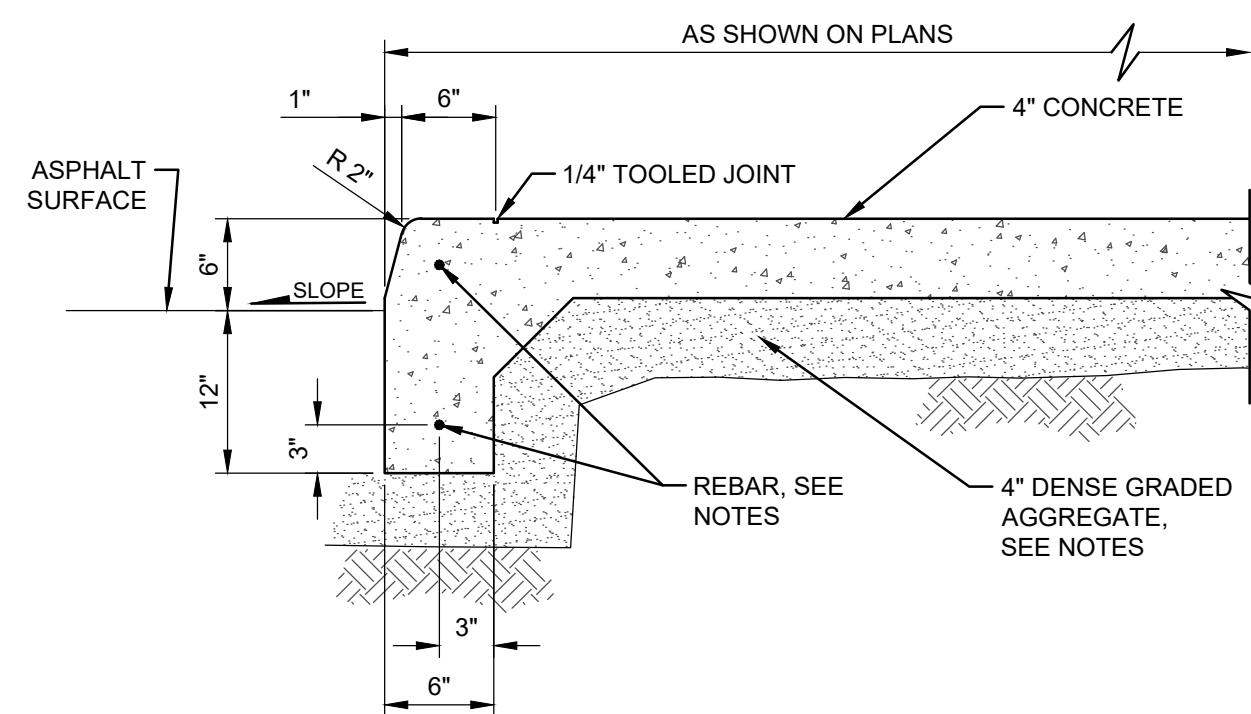


4" CONCRETE PAVEMENT DETAIL

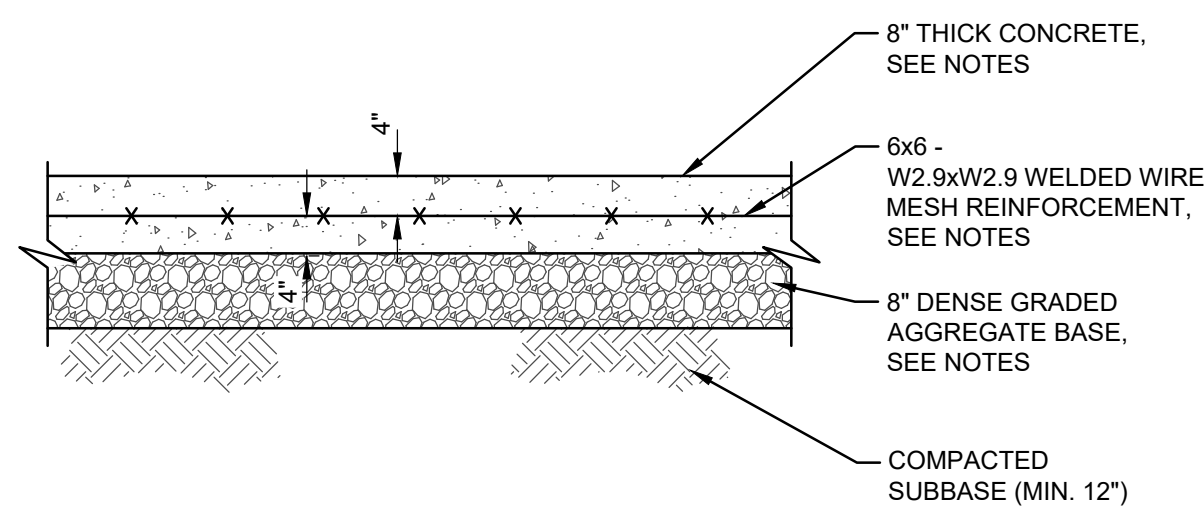


STRAIGHT CURB DETAIL

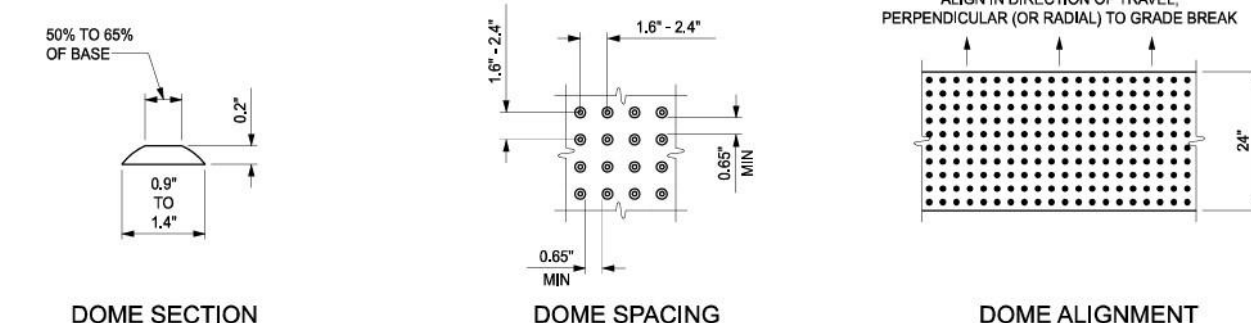
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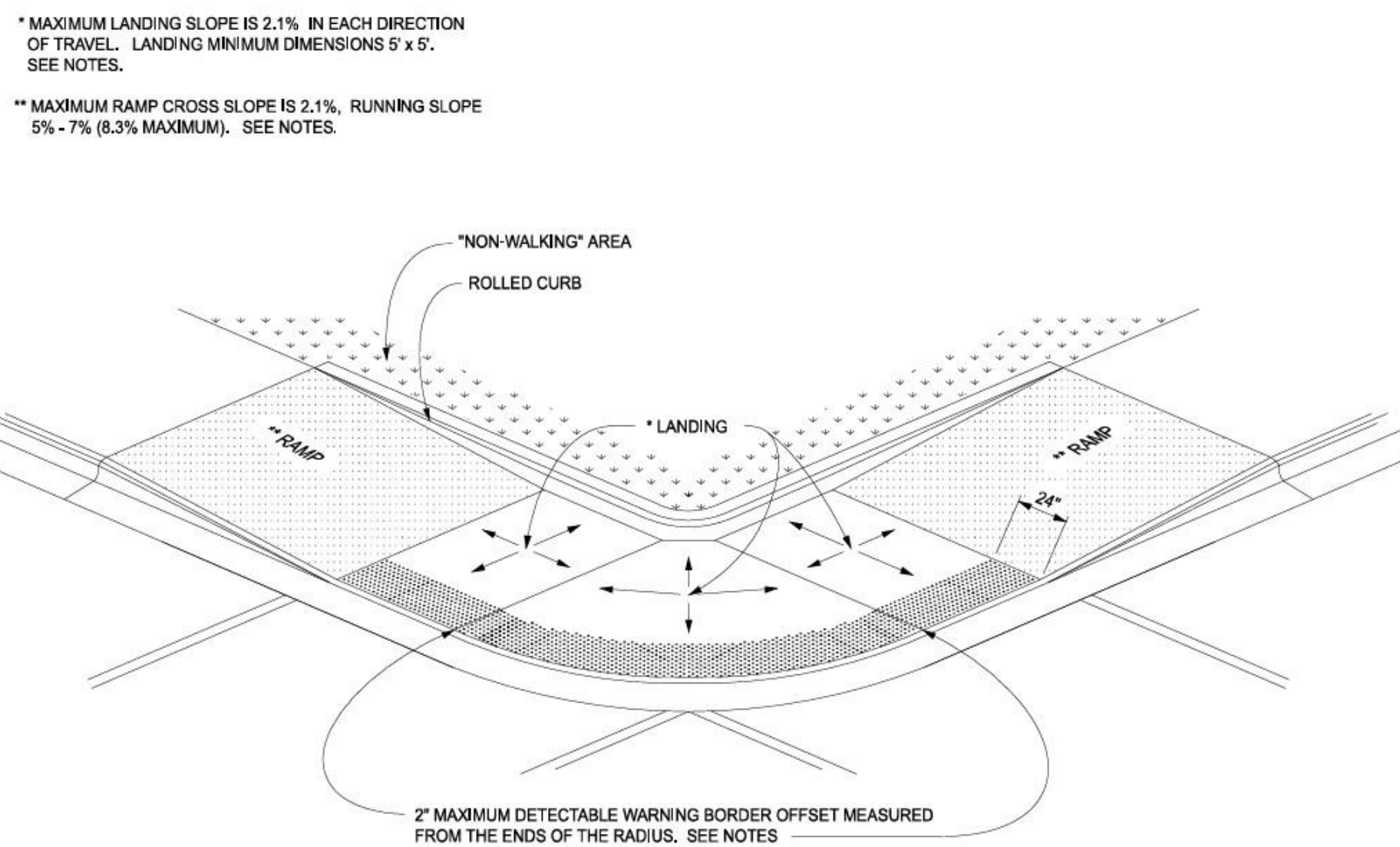
CONCRETE WALK WITH THICKENED EDGE



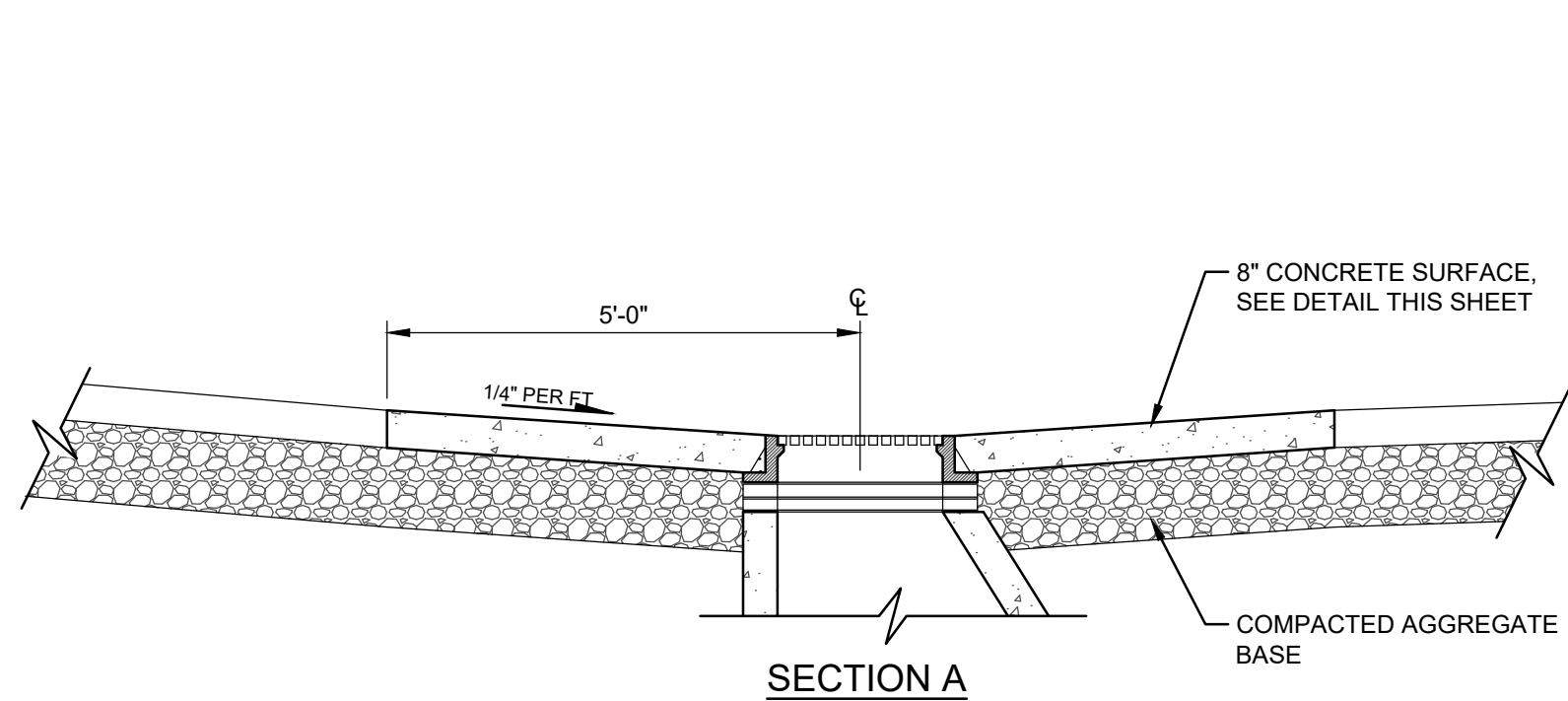
8" CONCRETE SURFACE DETAIL
NOT TO SCALE



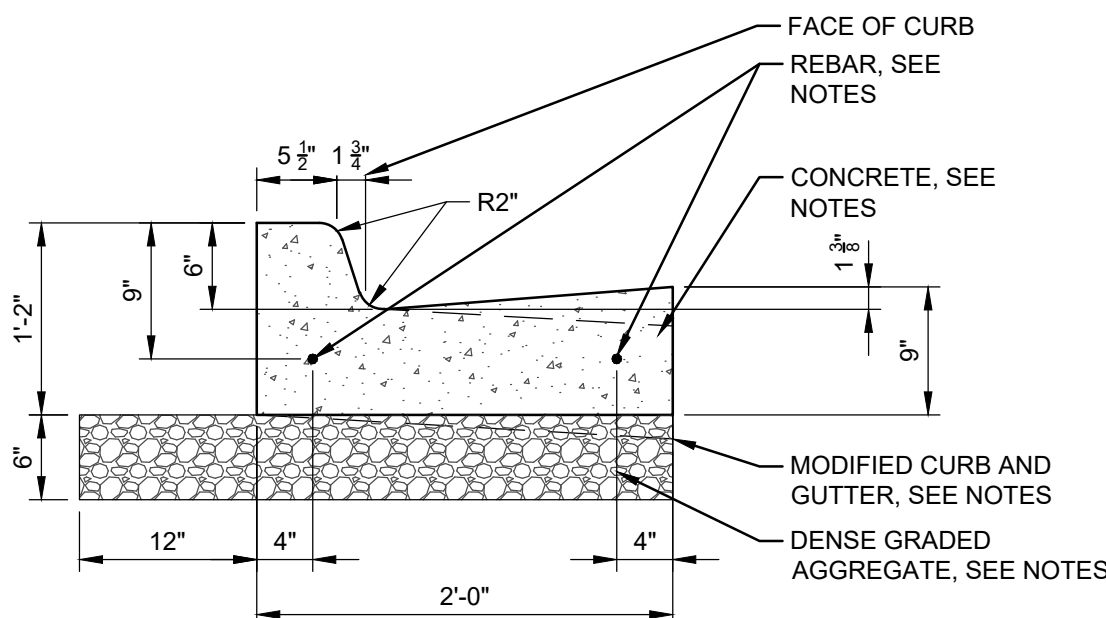
DETECTABLE WARNING DETAILS



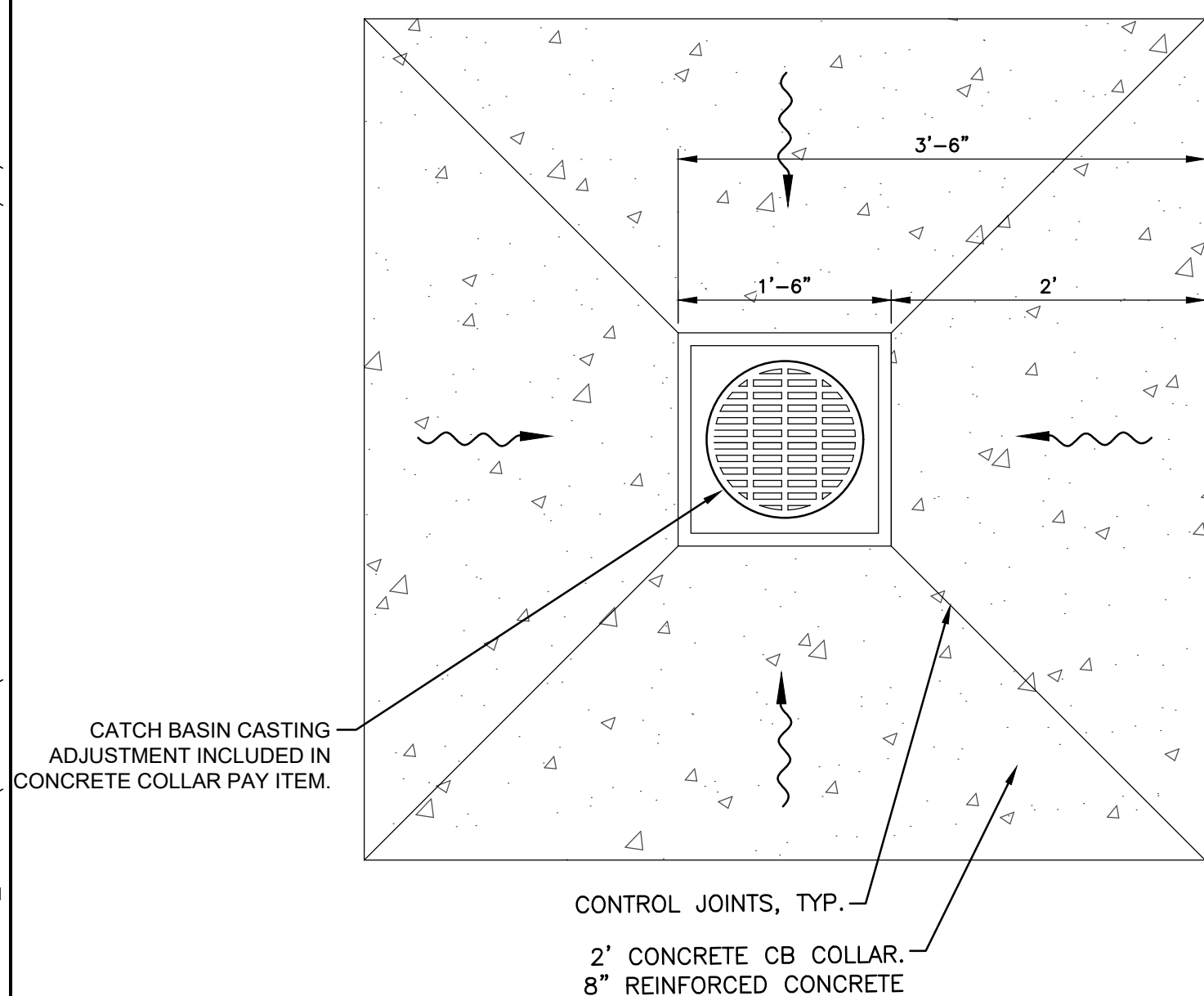
ADA RAMP WITH TRUNCATED DOMES (MDOT)
NO SCALE



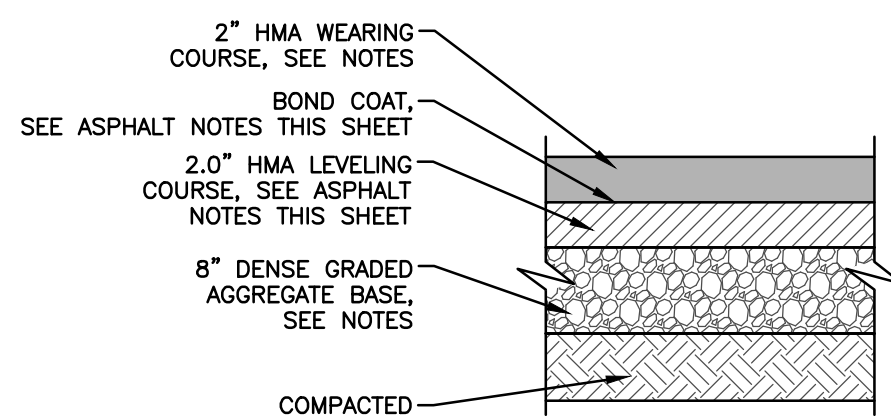
24" STANDARD CURB & GUTTER DETAIL



STANDARD HMA PAVEMENT
DETAIL
NOT TO SCALE



CATCH BASIN CONCRETE COLLAR, REINFORCED
NOT TO SCALE



DETAIL
NOT TO SCALE

NOTES

CONCRETE NOTES

1. ALL CONCRETE SHALL BE 4500 PSI CONCRETE MIX UNLESS OTHERWISE NOTED.
2. ALL POLY FIBER REINFORCED CONCRETE SHALL HAVE A MIX RATIO OF 1.5 LBS OF POLY FIBER PER 1.0 CYD OF CONCRETE.

CONCRETE JOINTS

1. THE CONTRACTOR MUST PREPARE A JOINTING PLAN AND SUBMIT TO ENGINEER AS A SHOP DRAWING FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE.
2. BEGIN SAW CUTS AFTER THE CONCRETE HAS HARDENED ENOUGH TO PERMIT SAWING WITH OUT RAVELING OR DISPLACING AGGREGATES.
3. IF CRACKS DEVELOP AHEAD OF THE SAWCUT, STOP SAWING THAT JOINT. ONCE THE CONCRETE HAS SUITABLY CURED USE CRACK SAWS TO FORM JOINT SEALANT RESERVOIRS ALONG THE CRACK LINE.
4. JOINT SPACING:
 - 4.1. MAXIMUM SLAB SIZE = 2 X SLAB THICKNESS (INCHES TO FEET).
I.E.: 2 X 6 INCHES = 12 FEET - 15 FEET IS ABSOLUTE MAX.
 - 4.2. RECOMMENDED MAXIMUM JOINT SPACING (SMALLER IS BETTER)
 - 4.2.1. 4" SLAB: 6 FEET
 - 4.2.2. 6" SLAB: 10 FEET
 - 4.2.3. 8" SLAB: 14 FEET
 - 4.2.4. 9" SLAB: 15 FEET
5. CATCH BASIN AND MANHOLE CASTINGS REQUIRE A BOXOUT OR ISOLATION TO ALLOW FOR VERTICAL AND HORIZONTAL SLAB MOVEMENT.
6. SAWCUT JOINTS SHALL BE CONTINUOUS ACROSS THE SLAB AND SHALL MATCH LOCATION OF JOINTS ON ABUTTING CONCRETE SLABS.
7. CONTRACTOR SHALL PROVIDE ISOLATION/EXPANSION JOINTS BETWEEN SLABS OR A STRUCTURES.
8. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION JOINTS AT EDGE OF POURS OR FORM LINES.
9. THE CONTRACTOR SHALL PROVIDE CONTRACTION JOINTS (SAW CUTS OR TOOLED) EQUALLY SPACED AS IDENTIFIED IN NOTE 4 THIS SHEET.

CONCRETE CURBING

1. WHERE THE DRAINAGE FLOWS AWAY FROM THE CURB AND GUTTER THE CONTRACTOR MODIFY THE CURB AND GUTTER DETAIL TO SLOPE AWAY FROM THE CURB FACE @ 1" PER FOOT.
2. THE CONTRACTOR SHALL NOT GRADE SITE SO THAT STORM WATER FLOWS TOWARDS OR AGAINST STRAIGHT CURB OR THICKENED EDGE SIDEWALK.
3. ALL REBAR FOR CONCRETE CURB AND GUTTER SHALL BE # 4 EPOXY COATED
4. PLACE 1" FIBER JOINT FILLER AT 400' MAXIMUM INTERVALS.
5. PLACE 1" FIBER JOINT FILLER AT SPRING POINTS OF CURB RETURNS (AND INTERSECTION STREETS).
6. PLACE 1" FIBER JOINT FILLER IN ADJACENT CONTRACTION JOINTS EACH SIDE OF CATCH BASINS.
7. PLACE CONTRACTION JOINTS AT 40' MAXIMUM INTERVALS (NO SAW CUT JOINTS ALLOWED).

ASPHALT

1. THE LEVELING COURSE SHALL BE MDOT 4EL OR APPROVED EQUAL (13A LVSP).
2. THE WEARING COURSE SHALL BE MDOT 5EL OR APPROVED EQUAL (36A).
3. THE ASPHALT BINDER SHALL BE PG 58-28.

MATERIALS

1. GRANULAR MATERIAL - MDOT CLASS II SAND
2. OPEN GRADED AGGREGATE - MDOT 6A OR AASHTO #57
3. DENSE GRADED AGGREGATE - MDOT 21AA CRUSHED LIMESTONE
- 3.1. CONTRACTOR CAN USE CRUSHED CONCRETE/ASPHALT MEETING MDOT 21AA SPECIFICATIONS AS AGGREGATE BASE MATERIAL. CONTRACTOR SHALL INCREASE BASE THICKNESS BY 25%.

CURBING NOTES:

1. ALL CONCRETE SHALL BE 4500 PSI CONCRETE, UNLESS OTHERWISE NOTED.
2. WHEN FINISH GRADE SLOPES AWAY FROM THE CURB & GUTTER THE CONTRACTOR SHALL NOTIFY THE GUTTER TO SLOPE AWAY FROM THE FACE OF CURB (OR FLOWLINE) AT 1" PER FOOT.
3. AGGREGATE MATERIALS:
 - 3.1. SAND - MDOT CLASS II
 - 3.2. OPEN GRADED AGGREGATE - MDOT 6A OR AASHTO #57 AGGREGATE.
 - 3.3. DENSE GRADED AGGREGATE - MDOT 22AA CRUSHED LIMESTONE.
4. CONCRETE CURB AND GUTTER JOINTS:
 - 4.1. PLACE 1" FIBER JOINT FILLER AT 400' MAXIMUM INTERVALS.
 - 4.2. PLACE 1" FIBER JOINT FILLER AT SPRING POINTS OF CURB RETURNS (& INTERSECTING STREETS).
 - 4.3. PLACE 1" FIBER JOINT FILLER ADJACENT CONTRACTION JOINT EACH SIDE OF CATCH BASINS.
 - 4.4. PLACE CONTRACTION JOINTS AT 40' MAXIMUM INTERVALS (NO SAW CUT JOINTS ALLOWED).
 - 4.5. ALL JOINTS SHALL BE FULL DEPTH AND PLACED AT RIGHT ANGLES TO THE EDGE OF CONCRETE CURB & GUTTER.
5. ALL REBAR SHALL BE #4 EPOXY COATED STEEL BARS MEETING ASTM A615, GRADE 60 UNLESS OTHERWISE NOTED.
6. ALL POLY FIBER REINFORCING SHALL BE COLLATED FIBRILLATED POLYPROPYLENE FIBER @ 50#/CYD., ULTRA-NET (2 1/2"LENGTH), AS MANUFACTURED BY: FORTA CORPORATION OR APPROVED EQUAL.



Description

The sleek future design of the LDS-SAL is a blend of modern sophistication and unmatched energy efficiency. The LDS-SAL small area light includes the benefits of superior thermal efficiency, an industry-leading ten-year all-parts warranty, and custom optics ensuring best-in-class photometric results. Optimize photometric design with greater pole spacing, uniformity, and lower energy usage. The LDS-SAL includes lumen packages up to 30,000 lumens allowing one-for-one replacements of existing HID fixtures up to 1000 Watt and is a perfect spec-grade solution for parking lots, pathways, tennis courts, and many other outdoor applications. Proudly Made in the USA.

Technical Specifications

Input Voltage: 120-277V or 347-480V.

Housing: Die-cast aluminum housing with 60% gloss polyester powder coat finishes for maximum durability. The base aluminum material is prepared using an environmentally-friendly non-chrome 2-step surface cleaning and passivation process. The process results in a more durable conversion layer than traditional chrome conversion coatings and allows maximum adhesion of the powder coating to the aluminum substrate. Housing features an integrated heat sink and driver compartment built into the fixture design.

Mounting: Mounting arm designed for a square / round pole (standard). Additional mounting options include a pole mounting arm adaptor.

Split Circuit: Optional

Effective Projected Area (EPA): 0.83 ft²

Color Temperature: 2200K, 2700K, 3000K, 4000K (standard), 5000K.

LED Lifetime: All LEDs are rated for a minimum of 100,000 hours of continuous operation at ambient outdoor temperatures from -40°F/-40°C to 115°F/46°C.

Color Rendering Index (CRI): Minimum of 80 or higher. CRI 90+ available upon request. CRI 90+ not available in 2200K.

Dimming: 0-10V standard dimming capability.

Custom Optics: Lumecon meticulously engineered premium acrylic optical lenses to maximize the distribution and uniformity of light while minimizing cost. Our arrays distribute light at least 21% further and with 20% more uniformity than leading competitors. Lumecon custom lenses create a uniform, well-lit environment that mitigates luminance "hot spots" and use less wattage than typical LED area lights.

Vandal Resistant: Our lens is also resistant to vandalism with a low compact design making the lens material dense and impact resistant. We build to withstand high abuse lighting environments.

Surge Protection: Thermally protected 20kV 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015. Extreme lense. Also meets IEC61643-11 Class II, EN61643-11 Type 2, and UL Dept of Energy MBSC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

Lumecon ETD™ System: The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life. To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards. UL and IP65 standards for flammability, moisture resistance and thermal shock.

Certification Data: ETL Listed to UL 1598, UL 8750 Wet Locations. *Full compliance and test documentation is available for TM-21, LM-79, LM-80, ETL Listing to UL 1598 and UL 8750 Salt Fog tested for 3,000 hours per ASTM B117-16 / ASTM D610-08. Ingress Protection: IP66 per ANSI/IEC 60529-2004. Passed 3G-vibration @ 100K cycles, per ANSI C136.31-2018.

DesignLights Consortium® (DLC) Qualified Product: Unless noted, not all versions of this product may be DLC® qualified. For a complete list of Lumecon DLC® Qualified Products visit: www.designlights.org

Dimulator Photo-Control: Maximize the cost-saving benefits of your outdoor LED light fixtures with the stand-alone dimming solution. All Dimulators (except for CD and DM 3 versions) have three selectable dimming levels (20%, 50%, 75%) with three different start times (10:00 pm, Midnight, or 2:00 am), which are selectable through the ten position selector switch located on the bottom of the base. All dimming schedules will return to full brightness at 5:00 am. The stand-alone unit is made to work with the ANSI C136.41 receptacle and will provide dimming of LED fixtures.

Manufacturing Origin: US Manufactured and Assembled.

Buy American Act: The product is assembled in the USA and meets the Buy American Act government procurement requirements under FAR, DFARS, and DOT regulations.

BABA Compliant: Meets Build America, Buy America Act Included in the Infrastructure Investment and Jobs Act, Public Law Number 117-58, Title IX, Subtitle A, Part 1 - Buy America Sourcing Requirements, Sections 70911-70917 stating Manufactured in the U.S. The cost of components mined, produced, or manufactured in the U.S. is greater than 55 percent of the total cost of all manufactured product components.

Warranty: 10 Year L20 performance based warranty. For full warranty terms, please visit our website: www.lumecon.com

Ordering Information

LDS-SAL - Options / Ordering Example: LDS-SAL-110-DB-T5-1-50-MAS

Wattage	Color	Distribution	Voltage	Color Temperature	Mounting Methods
30 - 30 Watts	DB - Dark Bronze	T2 - Type II	1 - 120v-277V	22 - 2200K *	MAS - Mounting Arm (Square Pole) *
45 - 45 Watts	GR - Gray	T3 - Type III	2 - 347V-480V	27 - 2700K *	For a Round pole, add UARP option
60 - 60 Watts	BK - Black	T4 - Type IV		30 - 3000K *	SF - Slip Filter
75 - 75 Watts	WH - White	T5 - Type V		40 - 4000K *	TM - Tenon Mount *
80 - 80 Watts	CC - Custom Color			50 - 5000K	
85 - 85 Watts	AF - Automotive Finish				
95 - 95 Watts					
110 - 110 Watts					
125 - 125 Watts					
160 - 160 Watts					
200 - 200 Watts					
220 - 220 Watts					

Options & Accessories

UARP - Universal Adaptor Round Pole

R - Receptacle Only

RS - Receptacle Only with Shorting Cap

7P - Seven-pin Twist Lock PhotoCell Receptacle Only *

PC1 - 120v-277v Button Eye PhotoCell *

PC2 - 347v-480v Button Eye PhotoCell *

PC3 - 120v-277v Twist Lock PhotoCell (10 year warranty)

PC4 - 347v-480v Twist Lock PhotoCell (10 year warranty)

OC1 - On/Off *

OC2 - Dim/High 1/4

OC3 - On/Off w/PhotoCell *

OC4 - Dim/High w/PhotoCell 1/4

SC - Split Circuit 1/4, 1/2

BB - Battery Back-Up (only available on the 30W - 80W models and on 120/277V models)

BBCR - Battery Back-Up Cold Rated (only available on the 30W - 80W models and on 120/277V models)

DM4 - 105-305 VAC, 50/60 Hz with 10 position field adjustable selector switch with integrated photocell

DM4-HV - High Voltage 312-530 VAC, 50/60 Hz with 10 position field adjustable selector switch with integrated photocell

DM4-CD - Constant all-night Dimming with integrated photocell

DM4-CD-HV - Constant all-night Dimming, 315-530 VAC 50/60Hz with integrated photocell

DM4-CLC - 120 VAC, 50/60 Hz, cUL certified version with gray cover with integrated photocell

DM4-ALC - Adaptive Lighting Control with 2% per year incremental increase to compensate for aging fixture with integrated photocell

DM3-XX - Factory set dimming schedule (10 position selector switch not available) with integrated photocell

BS5 - Bird Spikes (Field Installed)

BL - Backlight Louver(s) snap over LED Array(s) for Backlight Control at the source. *

Type A - 2 @ 90 DEGRESS

Type B - 2 BACK TO BACK

Type C - SINGLE LIGHT

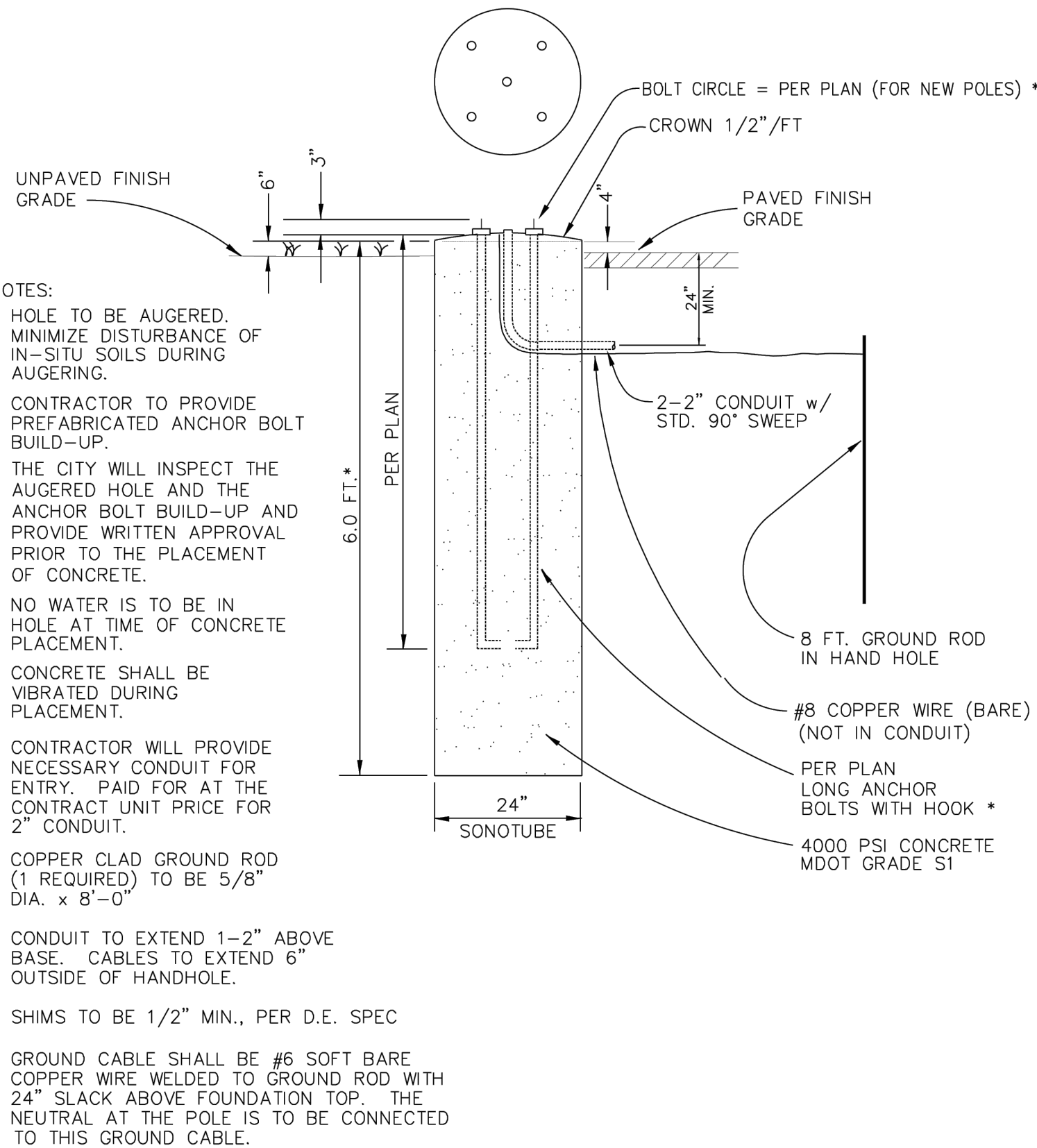
Accessories ordered as a separate line item:

33-00112 - External Glare Shield

33-00120 - Full Glare Shield

- Notes:
- For units with 7P the mounting must be restricted to <45° from horizontal arm per ANSI C136.10-2010. If more than a 45° tilt, use PC1 or PC2.
 - Cannot be combined with Occupancy Sensor. Use OC3 or OC4 when Occupancy Sensor and PhotoCell are needed and aiming greater than 45° from horizontal.
 - Must note on PO Mounting Height for proper lens application.
 - See Occupancy Sensor Default Settings Table.
 - See Occupancy Sensor Default Settings Table.
 - Split circuit is only available for 30W, 45W, 60W, 80W, and 80W models.
 - Split circuit is not compatible with Occupancy sensing our photo-eye control.
 - Split Circuit and Battery Back-up cannot both fit in the same housing. Battery Back-up will require external. Battery Back-up will only control one of the circuits.
 - 5000K or warmer, and fixed mounts must be cleared for ICA certification compliance.
 - Works with Type 2, Type 3 and Type 4 arrays.

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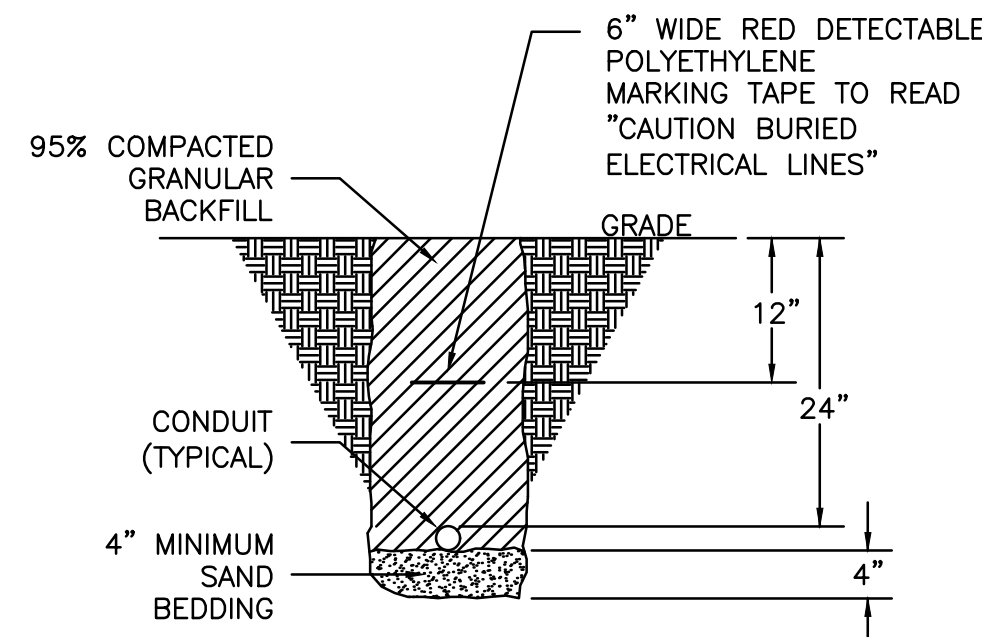


- NOTES:
- HOLE TO BE AUGERED. MINIMIZE DISTURBANCE OF IN-SITU SOILS DURING AUGERING.
 - CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP.
 - THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
 - NO WATER IS TO BE IN HOLE AT TIME OF CONCRETE PLACEMENT.
 - CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
 - CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. PAID FOR AT THE CONTRACT UNIT PRICE FOR 2" CONDUIT.
 - COPPER CLAD GROUND ROD (1 REQUIRED) TO BE 5/8" DIA. x 8'-0"
 - CONDUIT TO EXTEND 1-2" ABOVE BASE. CABLES TO EXTEND 6" OUTSIDE OF HANDHOLE.
 - SHIMS TO BE 1/2" MIN., PER D.E. SPEC
 - GROUND CABLE SHALL BE #6 SOFT BARE COPPER WIRE WELDED TO GROUND ROD WITH 24" SLACK ABOVE FOUNDATION TOP. THE NEUTRAL AT THE POLE IS TO BE CONNECTED TO THIS GROUND CABLE.

* UNLESS OTHERWISE NOTED ON THE PLANS OR CONTRACT DOCUMENTS

LIGHT POLE FOUNDATION

NOT TO SCALE



UNDERGROUND CONDUIT

NOT TO SCALE

RTA Round Tapered Aluminum Pole with Arms
Single Truss — 4-Bolt Base

J Arm Length

D Top Diameter

B Wall Thickness

C Butt Diameter

A Mounting Height

Finish

WARNING: Do not install light pole without luminaire. (Saturn Aluminum or Powder Coated Finish per Customer Specification.)

A	B	C	J	Max. EPA	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
ft.	in.	in.	ft.	sq. ft.	ft.	ft.	ft.	ft.	ft.	ft.
25	0.156"	7	10'	40	3.6	2.8	2.4	1.8	1.4	1.1

CUSTOMER NAME:

PROJECT:

LOCATION:

QUANTITY:

RTA25C7B4T1A - 01

CATALOG NUMBER

FINISH

Pole

Base Style

Handhole

Anchorage

Vibration Damper

Finish

WARNING: Do not install light pole without luminaire. (Saturn Aluminum or Powder Coated Finish per Customer Specification.)

EPA Notes: Effective Projected Area (EPA) in square feet (EPA) calculated using wind velocity (mph) indicated in accordance with 2009 ASHRAE LT-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design data or code is required, please consult the factory.

Lumecon
LED Innovation Since 2006

RTA Round Tapered Aluminum Pole with Arms
Double Truss — 4-Bolt Base

J Arm Length

D Top Diameter

B Wall Thickness

C Butt Diameter

A Mounting Height

Finish

WARNING: Do not install light pole without luminaire. (Saturn Aluminum or Powder Coated Finish per Customer Specification.)

A	B	C	J	Max. EPA	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
ft.	in.	in.	ft.	sq. ft.	ft.	ft.	ft.	ft.	ft.	ft.
25	0.156"	7	10'	45	3.6	2.7	2.3	1.3	1.1	0.9

CUSTOMER NAME:

PROJECT:

LOCATION:

QUANTITY:

RTA25C7B4T2A - 01

CATALOG NUMBER

FINISH

Pole

Base Style

Handhole

Anchorage

Vibration Damper

Finish

WARNING: Do not install light pole without luminaire. (Saturn Aluminum or Powder Coated Finish per Customer Specification.)

EPA Notes: Effective Projected Area (EPA) in square feet (EPA) calculated using wind velocity (mph) indicated in accordance with 2009 ASHRAE LT-5 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design data or code is required, please consult the factory.

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