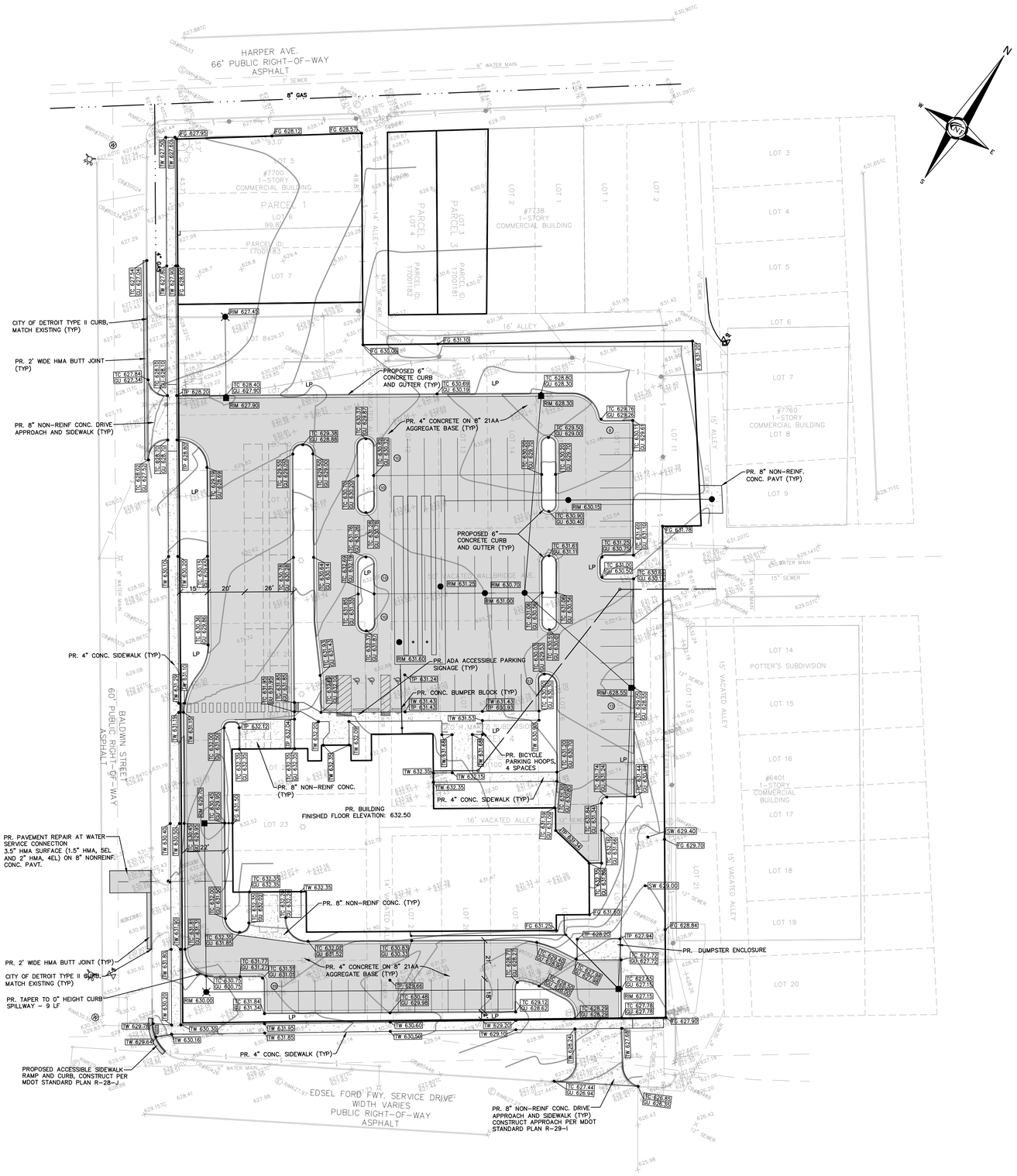
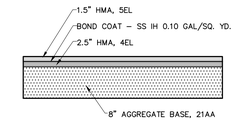
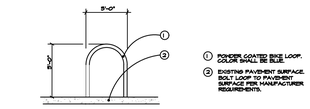
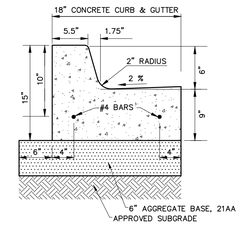




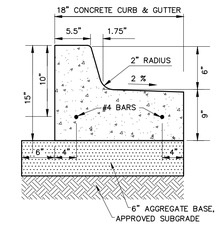
ASPHALT PAVEMENT SECTION
(DRIVE AND PARKING)



HOOP BIKE RACK
NTS



CONCRETE CURB DETAIL 'A'
N.T.S.



CONCRETE CURB DETAIL 'B'
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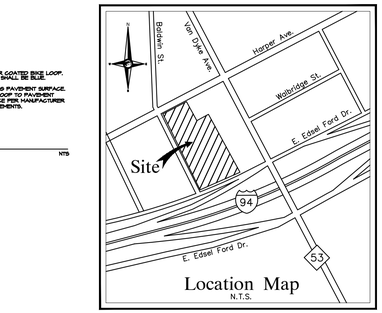
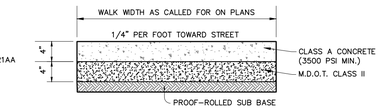
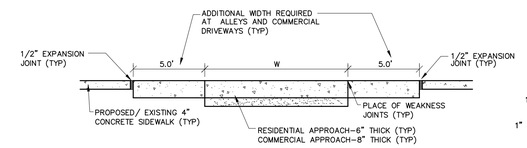


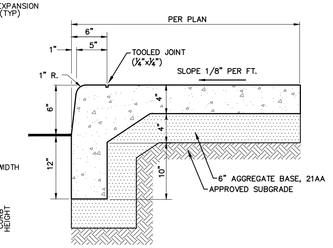
Location Map
N.T.S.



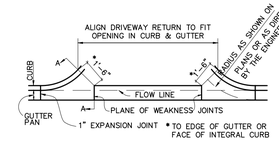
CONCRETE SIDEWALK SECTION
N.T.S.



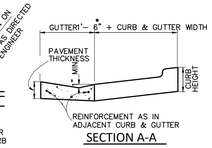
COMMERCIAL CONCRETE SIDEWALK DETAIL
N.T.S.



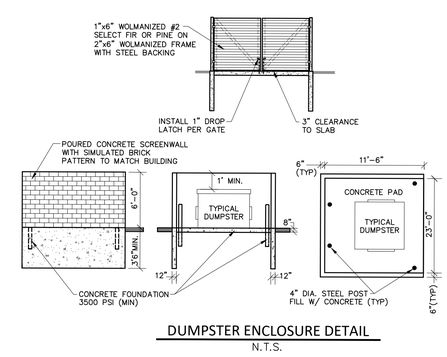
6" MONOLITHIC CURB AND WALK
N.T.S.



MDOT DRIVEWAY OPENING DETAIL 'M'
N.T.S.



SECTION A-A



DUMPSTER ENCLOSURE DETAIL
N.T.S.

GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR–ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE – MDOT BITUMINOUS MIXTUR HMA 4EL, 20AA;
SURFACE COURSE – MDOT BITUMINOUS MIXTURE HMA 5EL, 20AA;
ASPHALT CEMENT PENETRATION GRADE 85–100, BOND COAT – MDOT SS–1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB–BASE SHALL BE PROOF–ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS–S164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT–OF–WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF–ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

ESTIMATED QUANTITIES

PRIVATE SITE WORK

DESCRIPTION	QUANTITY	UNITS
4" ASPHALT ON 8" 21AA BASE	5,347	S.Y.
4" CONCRETE SIDEWALK	950	S.F.
8" NON–REINFORCED CONCRETE	29	S.Y.
MONOLITHIC CURB & WALK	363	S.F.
6" CONCRETE CURB & GUTTER	2,237	L.F.
8" NON–REINFORCED CONCRETE	126	S.Y.

DETROIT RIGHT-OF-WAY

DESCRIPTION	QUANTITY	UNITS
4" CONCRETE SIDEWALK	2,227	S.F.
8" CONCRETE SIDEWALK	180	S.F.
CURB & GUTTER	108	L.F.
8" NON–REINFORCED CONCRETE	32	S.Y.

MDOT RIGHT-OF-WAY

DESCRIPTION	QUANTITY	UNITS
4" CONCRETE SIDEWALK	1,145	S.F.
6" CONCRETE SIDEWALK RAMP	7	S.Y.
CURB & GUTTER	20	L.F.
8" CONCRETE SIDEWALK	186	S.F.
8" NON–REINFORCED CONCRETE	86	S.Y.

PAVING LEGEND

- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- HYDRANT, GATE VALVE — SAN. CLEAN OUT
- EXISTING WATERMAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- PROPOSED LIGHT POLE
- TC 600.00 — PR. TOP OF CURB ELEVATION
- GU 600.00 — PR. GUTTER ELEVATION
- TW 600.00 — PR. TOP OF WALK ELEVATION
- TP 600.00 — PR. TOP OF PVMT. ELEVATION
- FG 600.00 — FINISH GRADE ELEVATION

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
28 WEST ADAMS, SUITE 210
DETROIT, MI 48226
TEL. (313) 965-2444
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL
STATE OF MICHIGAN
CHAD L. FINDLEY
ENGINEER NO. 44360
LICENSED PROFESSIONAL ENGINEER

PROJECT
AMP Collection, LLC
7700 Harper Ave.

CLIENT
AMP Collection, LLC.
17145 Runyon St.
Detroit, MI 48234

CONTACT
Mr. Anthony Watts
Tel: 248-825-1381
Email: wattsant@aol.com

PROJECT LOCATION
Part of "Geo. H. Martz's Subdivision of the West Part of P.C. 390"
City of Detroit,
Wayne County, Michigan

SHEET
Paving & Grading Plan

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED

DRAWN BY: D. Goschka
PROJECT MANAGER: D. Goschka
APPROVED BY: C. Findley
DATE: October 25, 2023
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. M198
SHEET NO. C3