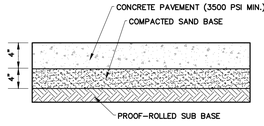
PAVING & GRADING NOTES

ALL RAMPS SHALL BE ADA COMPLIANT AND CONFORM TO DETAILS PROVIDED

RAMPS SHALL NOT EXCEED A 1:12 (8.33%) SLOPE AND SHALL NOT EXCEED SIX FEET (72") IN LENGTH.

BARRIER-FREE ACCESSIBLE ROUTES SHALL HAVE A CROSS SLOPE THAT DOES NOT EXCEED A 1:12 (2.00%) SLOPE AND A LONGITUDINAL SLOPE THAT DOES NOT EXCEED 1:20 (5.00%).

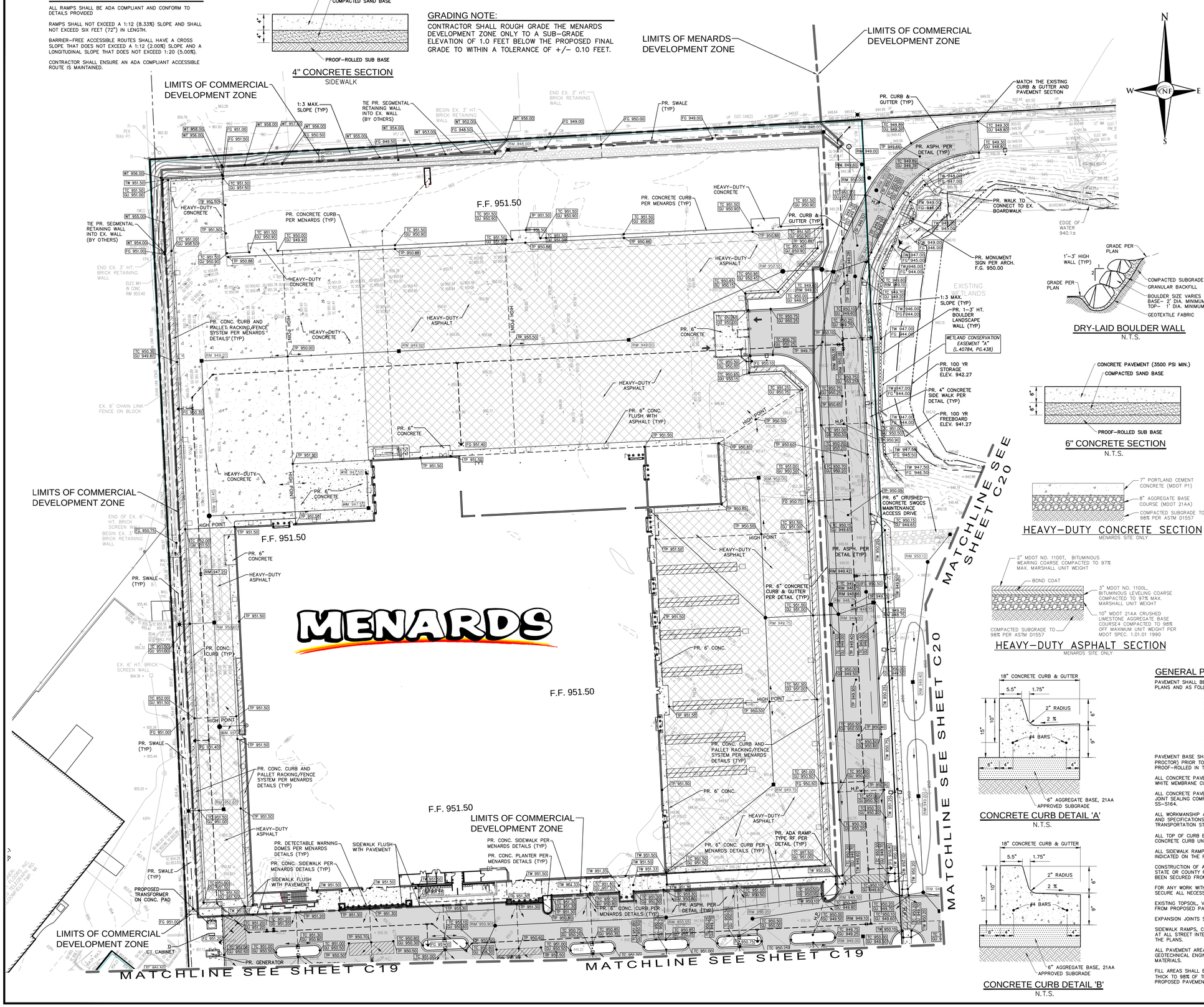
CONTRACTOR SHALL ENSURE AN ADA COMPLIANT ACCESSIBLE ROUTE IS MAINTAINED.

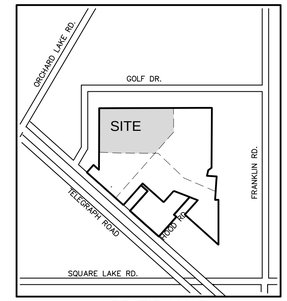


4" CONCRETE SECTION
SIDEWALK

GRADING NOTE:

CONTRACTOR SHALL ROUGH GRADE THE MENARDS DEVELOPMENT ZONE ONLY TO A SUB-GRADE ELEVATION OF 1.0 FEET BELOW THE PROPOSED FINAL GRADE TO WITHIN A TOLERANCE OF +/- 0.10 FEET.





LOCATION MAP
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257

LEGEND

- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EXISTING BURIED CABLES
- EXISTING GAS MAIN
- EXISTING OVERHEAD LINES
- PR. SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED STORM SEWER
- PR. SAND BACKFILL
- UTILITY CROSSING
- PR. TOP OF CURB ELEVATION
- PROPOSED GUTTER ELEVATION
- PR. TOP OF WALK ELEVATION
- PR. TOP OF PAVEMENT ELEV.
- PROPOSED FINISH GRADE
- PROPOSED CONTOUR
- PROPOSED SWALE
- PR. DRAINAGE DIRECTION
- PROPOSED INLET FILTER
- DRAINAGE AREA LIMITS
- PROPOSED SILT FENCE
- LIMITS OF SOIL DISRUPTION

PAVING LEGEND

- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT

PAVING LEGEND - MENARDS

- HEAVY-DUTY ASPHALT
- HEAVY-DUTY CONCRETE
- 6" THICK CONCRETE

DRY-LAID BOULDER WALL
N.T.S.

6" CONCRETE SECTION
N.T.S.

HEAVY-DUTY CONCRETE SECTION
MENARDS SITE ONLY

HEAVY-DUTY ASPHALT SECTION
MENARDS SITE ONLY

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

CONCRETE CURB DETAIL 'B'
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 MIXTURE NO. 1100L, 20AA; SURFACE COURSE - MDOT BITUMINOUS MIXTURE NO. 1100T, 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.

SEAL

PATRICK J. WILLIAMS ENGINEER NO. 47001 LICENSED PROFESSIONAL ENGINEER STATE OF MICHIGAN

PROJECT
Village at Bloomfield

CLIENT
REDICO
One Towne Square,
Suite 1600
Southfield, MI 48076

Contact:
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Phone: (248) 784-6486

PROJECT LOCATION
Part of the W. 1/2 of Section 5, T. 2N., R. 10E., and part of the NE 1/4 of Section 6, T. 2N., R. 10E., Bloomfield Township, The City of Pontiac and Bloomfield Township (conditionally transferred to The City of Pontiac) Oakland County, Michigan

SHEET
Menard's Paving and Grading Plan

811 Know what's below Call before you dig.

DATE	ISSUED / REVISED
05-12-17	Bids / Permits
09-18-17	Rev. per Township
11-06-17	Rev. per Twp. / City
11-29-17	Rev. per Menards

DRAWN BY:
A. Wiseman
DESIGNED BY:
A. Wiseman
APPROVED BY:
P. Williams
DATE:
April 3, 2017
SCALE:
1" = 40'
40 20 0 20 40 60

NFE JOB NO. A116-21
SHEET NO. C-18