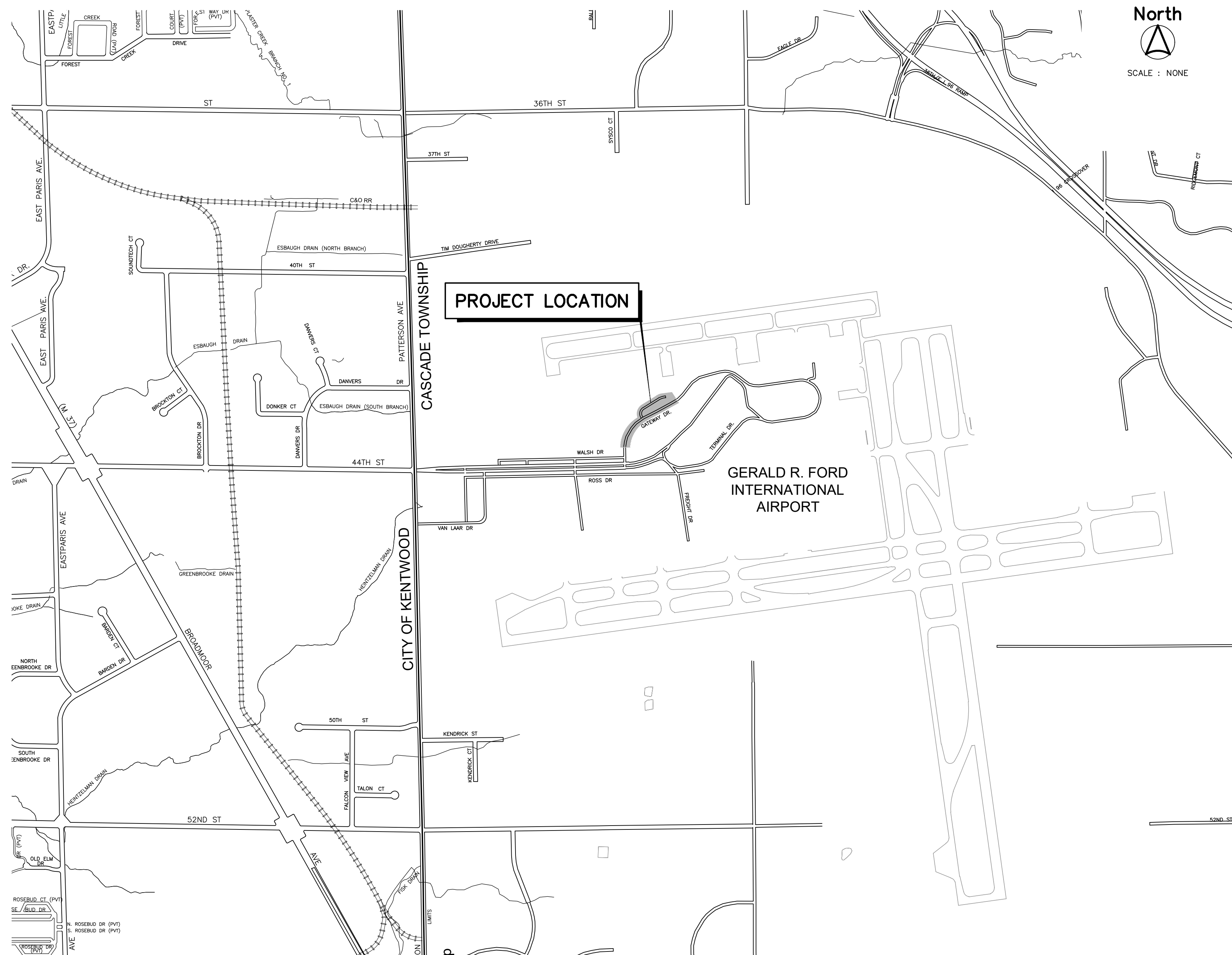
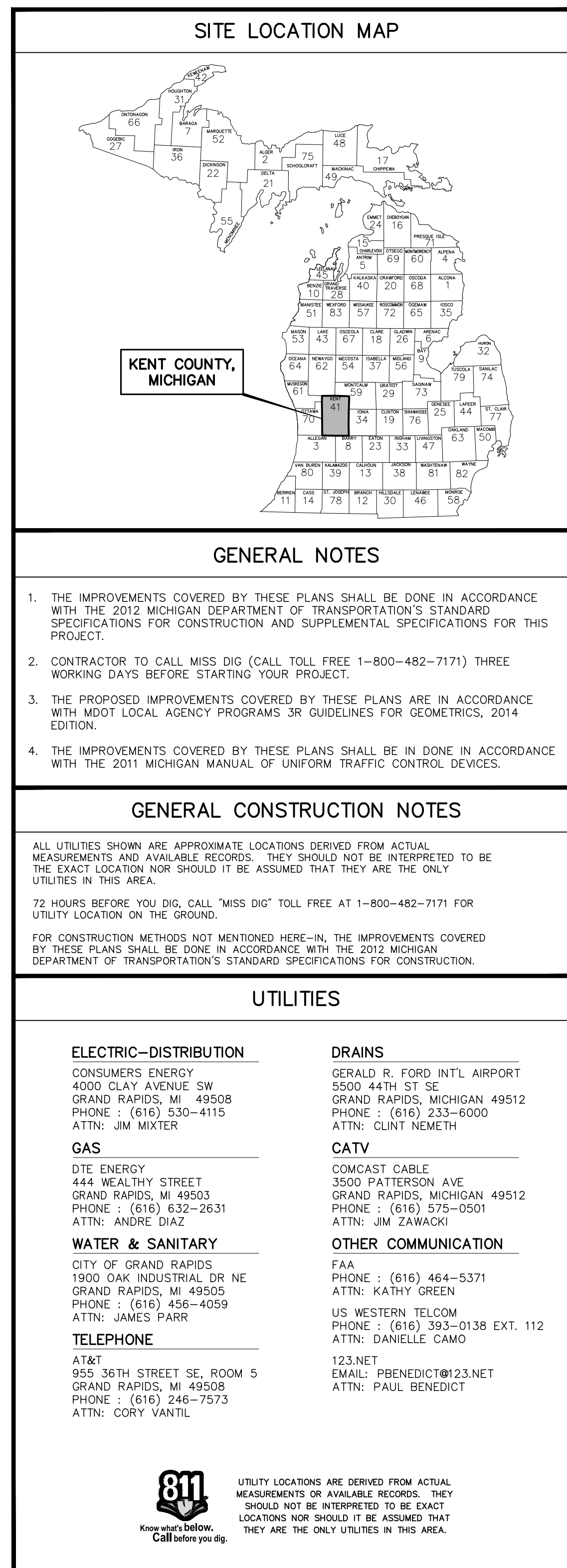


GERALD R. FORD INTERNATIONAL AIRPORT AUTHORITY

KENT COUNTY, MICHIGAN

PLANS OF THE PROPOSED

AVIATOR WAY RESURFACING, SIDEWALK, AND CROSSWALK GERALD R. FORD INTERNATIONAL AIRPORT



S H E E T I N D E X	
SHEET No.	DESCRIPTION
1	COVER SHEET
2	CONSTRUCTION PHASING PLAN
3	ROAD AND SIDEWALK IMPROVEMENTS
4	SIGNAGE AND MARKING PLAN

Prein & Newhof

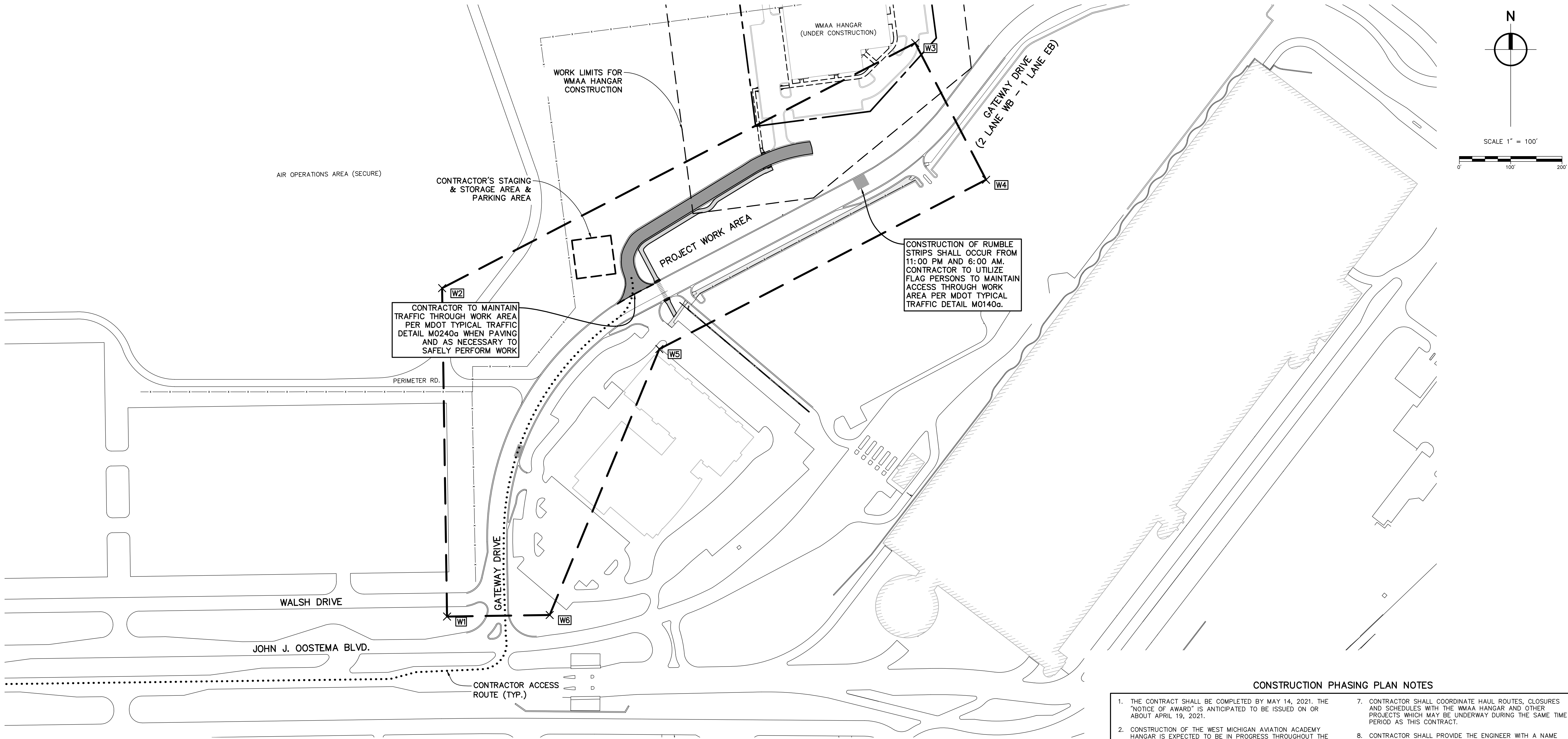
Engineers • Surveyors • Environmental • Laboratory

PROJECT NO.
2210189

SHEET NO.

1
OF
4

T:\UNLSD PROJECTS\2021\2210189_GERALD R FORD INTL AIRPORT-AVIATOR WAY RESURFACING-PROJ\2210189_02_CSP.dwg - BUREAU - Feb. 19, 2021 - 04:27pm - Prein&Newhof



PROJECT COORDINATE TABLE						
POINT #	LOCATION	LATITUDE	LONGITUDE	ELEVATION	MAX. EQUIPMENT HEIGHT	AMSL
1	W1	N042° 53' 02.77"	W085° 32' 09.25"	803	45'	848
2	W2	N042° 53' 09.08"	W085° 32' 09.57"	790	45'	835
3	W3	N042° 53' 14.00"	W085° 31' 57.34"	790	45'	835
4	W4	N042° 53' 11.40"	W085° 31' 55.41"	807	45'	852
5	W5	N042° 53' 08.01"	W085° 32' 03.85"	803	45'	848
6	W6	N042° 53' 02.84"	W085° 32' 06.56"	806	45'	851

LEGEND

CONSTRUCTION AREA PHASE 1

STAGING & STORAGE AREA

X W99

CONSTRUCTION PHASING PLAN NOTES

1. THE CONTRACT SHALL BE COMPLETED BY MAY 14, 2021. THE "NOTICE OF AWARD" IS ANTICIPATED TO BE ISSUED ON OR ABOUT APRIL 19, 2021.

2. CONSTRUCTION OF THE WEST MICHIGAN AVIATION ACADEMY HANGAR IS EXPECTED TO BE IN PROGRESS THROUGHOUT THE DURATION OF THIS PROJECT. ACCESS TO THE WMAA HANGAR SITE SHALL BE MAINTAINED AT ALL TIMES. CONSTRUCTION OF THE TOP COURSE OF HMA PAVEMENT SHALL BE COORDINATED WITH PIONEER CONSTRUCTION (GENERAL CONTRACTOR FOR WMAA) TO OCCUR ON A SATURDAY OR OTHER SUCH DAY WHERE WMAA CONSTRUCTION WILL NOT BE IMPACTED BY A ROAD CLOSURE.

3. ALL WORK IS ANTICIPATED TO BE OUTSIDE OF THE AIR OPERATIONS (SECURE) AREA. THE CONTRACTOR IS NOT EXPECTED TO NEED AIRPORT IDENTIFICATION BADGES. CONSTRUCTION PERSONNEL SHALL NOT ENTER SECURE AREAS WITHOUT AUTHORIZATION. IF ACCESS BECOMES NECESSARY, A BADGED ESCORT WILL BE PROVIDED OR ID BADGE PROCEDURES INITIATED.

4. ALL ACCESS TO THE PARKING LOT SHALL BE FROM JOHN J. OOSTEMA BOULEVARD AND GATEWAY DRIVE AS SHOWN. CONTRACTOR SHALL NOT USE TERMINAL DRIVE.

5. CONTRACTOR EMPLOYEES MAY PARK ALONGSIDE AVIATOR WAY AT THE LOCATION SHOWN ON THIS DRAWING.

6. THE CONTRACTOR'S SUPERINTENDENT SHALL ATTEND A CONSTRUCTION PROGRESS AND SAFETY/SECURITY MEETING ON A WEEKLY BASIS THROUGHOUT THE DURATION OF THE PROJECT OR AS REASONABLY REQUESTED BY THE OWNER. THE MEETINGS WILL BE HELD AT A LOCATION DETERMINED BY THE AIRPORT ENGINEER.
7. CONTRACTOR SHALL COORDINATE HAUL ROUTES, CLOSURES AND SCHEDULES WITH THE WMAA HANGAR AND OTHER PROJECTS WHICH MAY BE UNDERWAY DURING THE SAME TIME PERIOD AS THIS CONTRACT.

8. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A NAME AND TELEPHONE NUMBER OF AN INDIVIDUAL THAT WILL BE AVAILABLE 24 HOURS A DAY, SEVEN DAYS A WEEK, FOR USE IN EMERGENCIES. THIS CONTACT PERSON SHALL HAVE THE AUTHORITY TO IMMEDIATELY CORRECT ANY SAFETY OR SECURITY DEFICIENCY AS IDENTIFIED BY THE OWNER.

9. CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS OF THE AIRPORT. FAILURE TO COMPLY WITH SECURITY REQUIREMENTS WILL RESULT IN SUSPENSION OF THE CONTRACTOR'S OPERATIONS UNTIL A PLAN TO CORRECT DEFICIENCIES IS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES LEVIED AGAINST THE AIRPORT OR BY THE AIRPORT FOR SECURITY VIOLATIONS WHICH ARE A RESULT OF THE CONTRACTOR'S FAILURE TO MAINTAIN SECURITY. SUCH FINES SHALL BE DEDUCTED FROM THE AMOUNT DUE TO THE CONTRACTOR.

10. CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE LIMITS OF THE CONSTRUCTION AREA, AND THE DESIGNATED ACCESS ROUTES.

11. MAXIMUM EQUIPMENT HEIGHT IS 45 FEET.

12. CONTRACTOR SHALL CONTROL DUST FROM CONSTRUCTION OPERATIONS BY VACUUM TYPE SWEEPING, WATERING OR OTHER METHODS AS APPROVED BY GFIAA. IF THE CONTRACTOR FAILS TO COMPLY WITH THIS REQUIREMENT, CONSTRUCTION WILL BE SUSPENDED UNTIL A PLAN FOR CONTROLLING THE DUST IS APPROVED BY GFIAA.



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

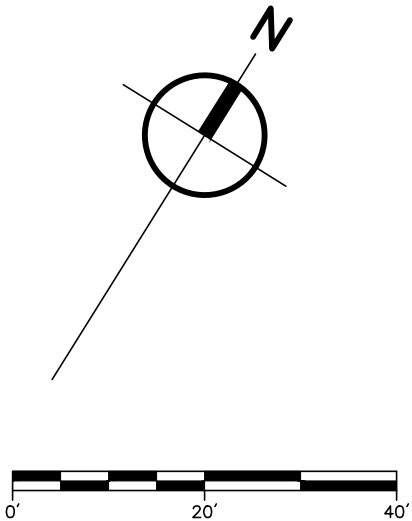
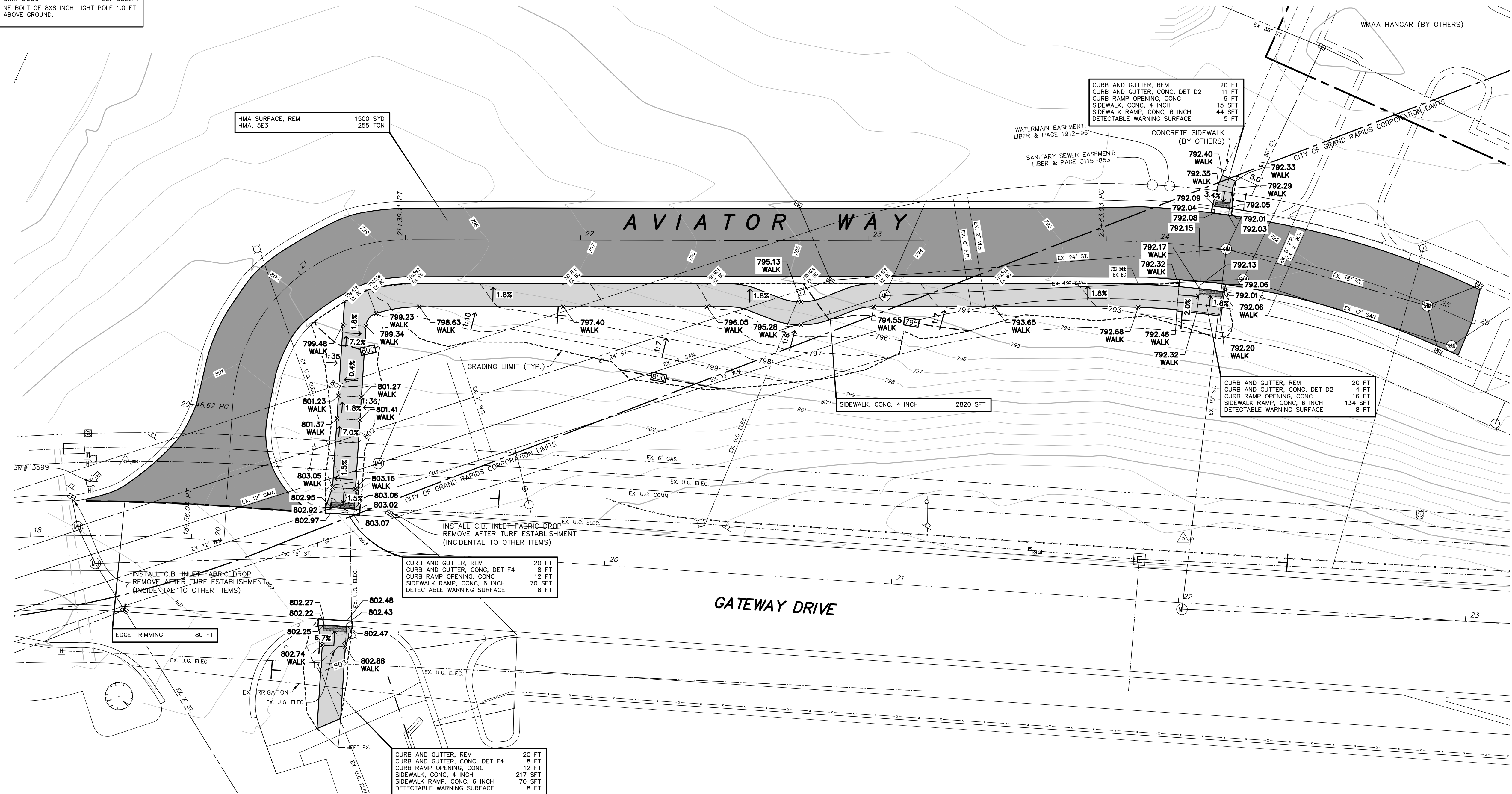
NO.	REVISIONS	BY	DATE	DRAWN
				B.J.M.
				DATE FEB. '21
				CHECKED J.A.S.
				DATE FEB. '21

Prein&Newhof
Engineers • Surveyors • Environmental • Laboratory

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
AVIATOR WAY RESURFACING,
SIDEWALK AND CROSSWALK
CONSTRUCTION PHASING PLAN

PROJECT NO.
2210189
SHEET NO.
2 OF 4

B.M. 3599 EL. 802.77
NE BOLT OF 8X8 INCH LIGHT POLE 1.0 FT
ABOVE GROUND.



LEGEND

- EXISTING TOPOGRAPHY**
- 605 INDEX CONTOUR
 - 604 INTERMEDIATE CONTOUR
 - BUILDING CENTERLINE
 - CONCRETE CURB & GUTTER
 - DITCH
 - EDGE OF WATER
 - FENCELINE
 - GUARDRAIL
 - ASPHALT
 - CONCRETE
 - VEGETATION LINE
- EXISTING UTILITIES**
- GAS MAIN
 - SANITARY SEWER
 - SANITARY FORCE MAIN
 - STORM SEWER
 - UNDERDRAIN
 - WATER MAIN
- PROPOSED TOPOGRAPHY**
- 605 INDEX CONTOUR
 - 604 INTERMEDIATE CONTOUR
 - HMA
 - CONCRETE
 - CONCRETE CURB & GUTTER
- GENERAL SYMBOLS**
- DECIDUOUS TREE
 - ELECTRIC METER
 - GAS METER
 - WATER METER
 - POST
 - CATCH BASIN
 - CLEANOUT
 - HANDHOLE
 - HYDRANT
 - LIGHT POLE
 - MARKER - GENERIC
 - MARKER - FIBER
 - MARKER - GAS
 - MARKER - PETROLEUM
 - MARKER - RIGHT OF WAY
 - BENCHMARK
 - MANHOLE - GENERIC
 - MANHOLE - SANITARY
 - MANHOLE - STORM
 - MANHOLE - ELECTRIC
 - MANHOLE - GAS
 - MANHOLE - LIGHT
 - MANHOLE - TELEPHONE
 - MANHOLE - WATER
 - ELEC. EQUIP./TRANSFORMER
 - UTILITY POLE
 - UTILITY PEDESTAL - GENERIC
 - CATV PEDESTAL
 - TELEPHONE PEDESTAL
 - VALVE & BOX
 - FLARED END SECTION
 - CONTROL POINT

CONSTRUCTION NOTES

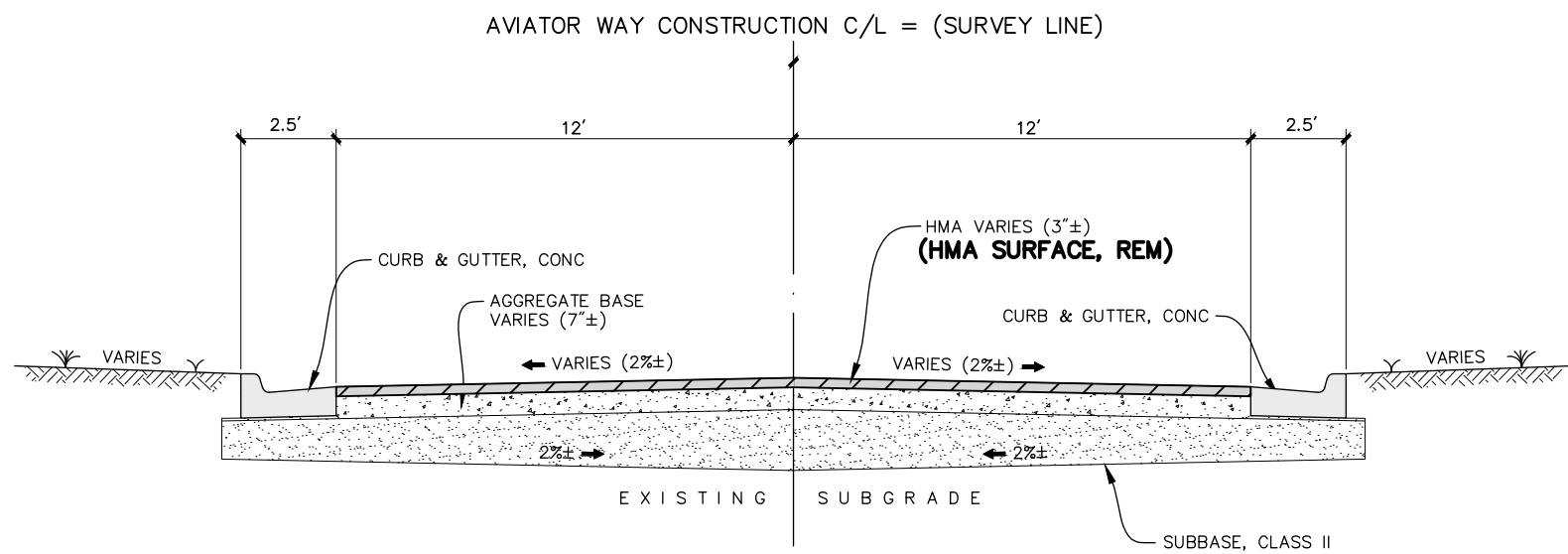
- CURB AND GUTTER REMOVAL SHALL BE IN ACCORDANCE WITH MDOT 2012 STANDARD SPECIFICATION 204 EXCEPT AS MODIFIED HEREIN. EXISTING CURB AND GUTTER SHALL BE SAWCUT AT THE NEAREST JOINT EITHER SIDE OF PROPOSED SIDEWALK LIMITS. COSTS FOR SAWCUTTING SHALL BE INCLUDED IN THE PER FOOT UNIT PRICE FOR CURB AND GUTTER, REM.
- HMA SURFACE REMOVAL SHALL BE IN ACCORDANCE WITH MDOT 2012 STANDARD SPECIFICATION 5001 EXCEPT AS HEREIN MODIFIED...
- CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION EXCEPT AS MODIFIED HEREIN. NEW CURB BEYOND THE LIMITS OF PROPOSED SIDEWALK SHALL MATCH OR TRANSITION TO MATCHING EXISTING CURB AT REMOVAL LIMITS. ONE EXPANSION JOINT SHALL BE CONSTRUCTED AT ONE END OF THE REMOVAL LIMITS OR THE OTHER.

PROPOSED PAVEMENT LEGEND

- PROPOSED COLD MILLING HMA SURFACE & PROPOSED HMA RESURFACING
- PROPOSED SIDEWALK, CONC, 4/6 INCH

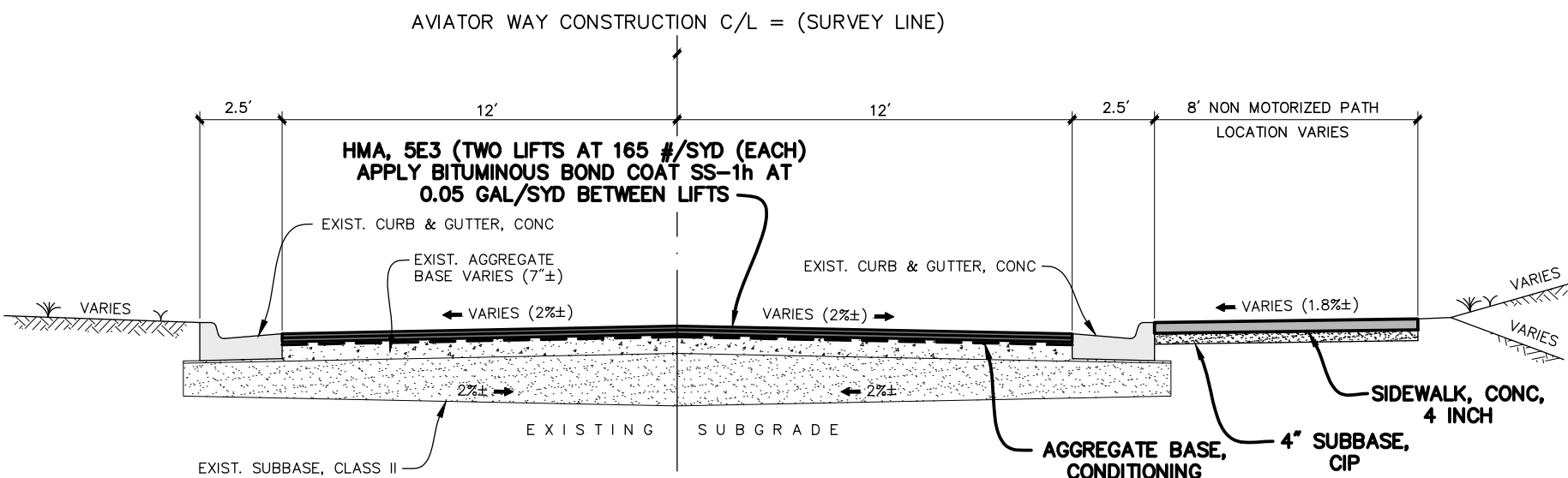
NOTE: ALL SIDEWALK RAMPS SHALL BE 6 INCH CONCRETE

EXISTING TYPICAL CROSS SECTION



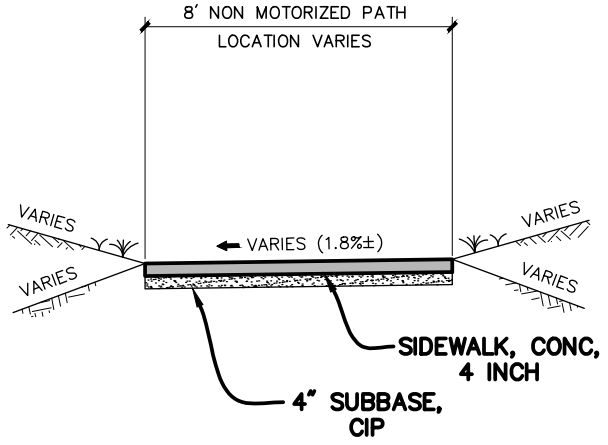
SCALE : NONE

PROPOSED TYPICAL CROSS SECTION



SCALE : NONE

TYPICAL SIDEWALK CROSS SECTION



SCALE : NONE



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

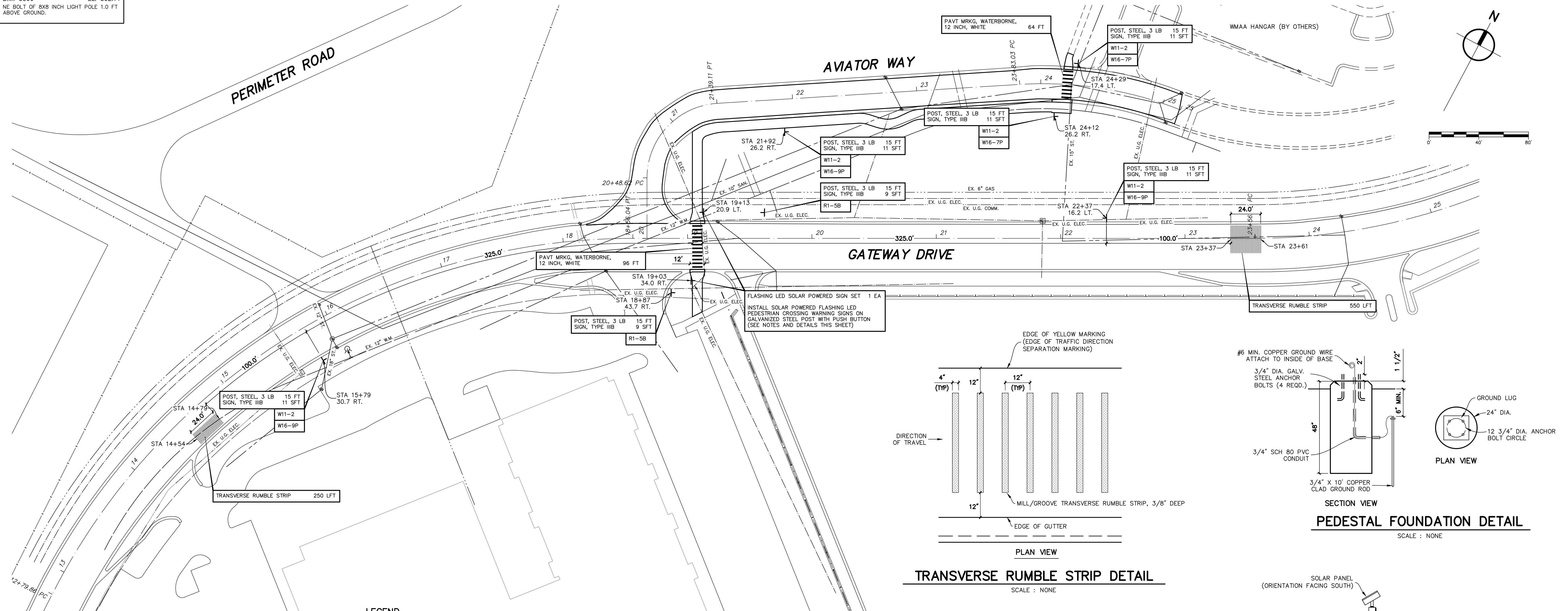
NO.	REVISIONS	BY	DATE	DRAWN
				B.J.M.
			FEB. '21	
			J.A.S.	
			FEB. '21	

Prein & Newhof
Engineers • Surveyors • Environmental • Laboratory

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
AVIATOR WAY RESURFACING,
SIDEWALK AND CROSSWALK
ROAD AND SIDEWALK IMPROVEMENTS

PROJECT NO.
2210189
SHEET NO.
3 OF 4

B.M. 3599 EL. 802.77
NE BOLT OF 8X8 INCH LIGHT POLE 1.0 FT
ABOVE GROUND.



LEGEND

EXISTING TOPOGRAPHY	
605	INDEX CONTOUR
604	INTERMEDIATE CONTOUR
	BUILDING
	CENTERLINE
	CONCRETE CURB & GUTTER
	DITCH
	EDGE OF WATER
	FENCELINE
	GUARDRAIL
	ASPHALT
	CONCRETE
	VEGETATION LINE
EXISTING UTILITIES	
	GAS MAIN
	SANITARY SEWER
	SANITARY FORCE MAIN
	STORM SEWER
	UNDERDRAIN
	WATER MAIN
PROPOSED TOPOGRAPHY	
605	INDEX CONTOUR
604	INTERMEDIATE CONTOUR
	HMA
	CONCRETE
	CONCRETE CURB & GUTTER

GENERAL SYMBOLS	
DECIDUOUS TREE	MANHOLE - GENERIC
ELECTRIC METER	MANHOLE - SANITARY
GAS METER	MANHOLE - STORM
WATER METER	MANHOLE - ELECTRIC
POST	MANHOLE - GAS
CATCH BASIN	MANHOLE - LIGHT
CLEANOUT	MANHOLE - TELEPHONE
HANDHOLE	MANHOLE - WATER
HYDRANT	ELEC. EQUIP./TRANSFORMER
LIGHT POLE	UTILITY POLE
MARKER - GENERIC	UTILITY PEDESTAL - GENERIC
MARKER - FIBER	CATV PEDESTAL
MARKER - GAS	TELEPHONE PEDESTAL
MARKER - PETROLEUM	VALVE & BOX
MARKER - RIGHT OF WAY	FLARED END SECTION
BENCHMARK	CONTROL POINT

SIGNAGE AND MARKING PLAN

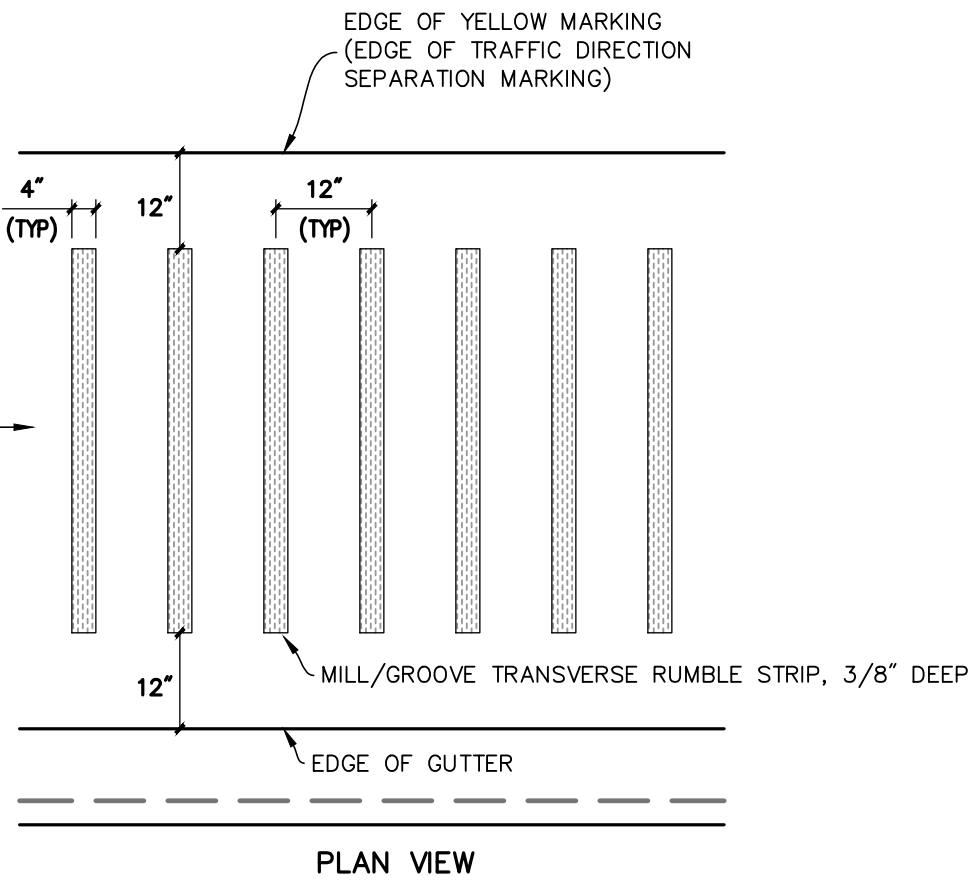
SCALE : 1" = 40'

NOTES

- FLASHING LED SOLAR POWERED SIGN SET
1.1. SOLAR POWERED FLASHING LED PEDESTRIAN CROSSING WARNING SIGN SHALL BE LIGHTGUARD SYSTEMS SMART CROSSWALK SOLAR WIRELESS SIGN SYSTEM (PART NUMBER LGS-W-SIGN) OR APPROVED EQUAL.
1.2. SIGN SHALL BE PUSHBUTTON OPERATED. PUSHBUTTON SHALL BE INSTALLED IN ACCORDANCE WITH ADA STANDARDS AND PROWAG. PUSHBUTTON SHALL NOT BE MORE THAN 10" FROM THE EDGE OF SIDEWALK.
1.3. WARNING SIGNS SHALL BE MUTCD W11-2 AND W16-7P.
1.4. SIGN SYSTEM SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
1.5. SIGNS AND SIGN SYSTEM SHALL BE INSTALLED ON PEDESTAL AND PEDESTAL FOUNDATION PER DETAILS THIS SHEET.
- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2012 MICHIGAN STANDARD SPECIFICATIONS FOR CONSTRUCTION EXCEPT AS MODIFIED HEREIN.
- ALL PROPOSED WARNING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN.
- EXISTING PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REMARKED AT CONTRACTOR'S EXPENSE.

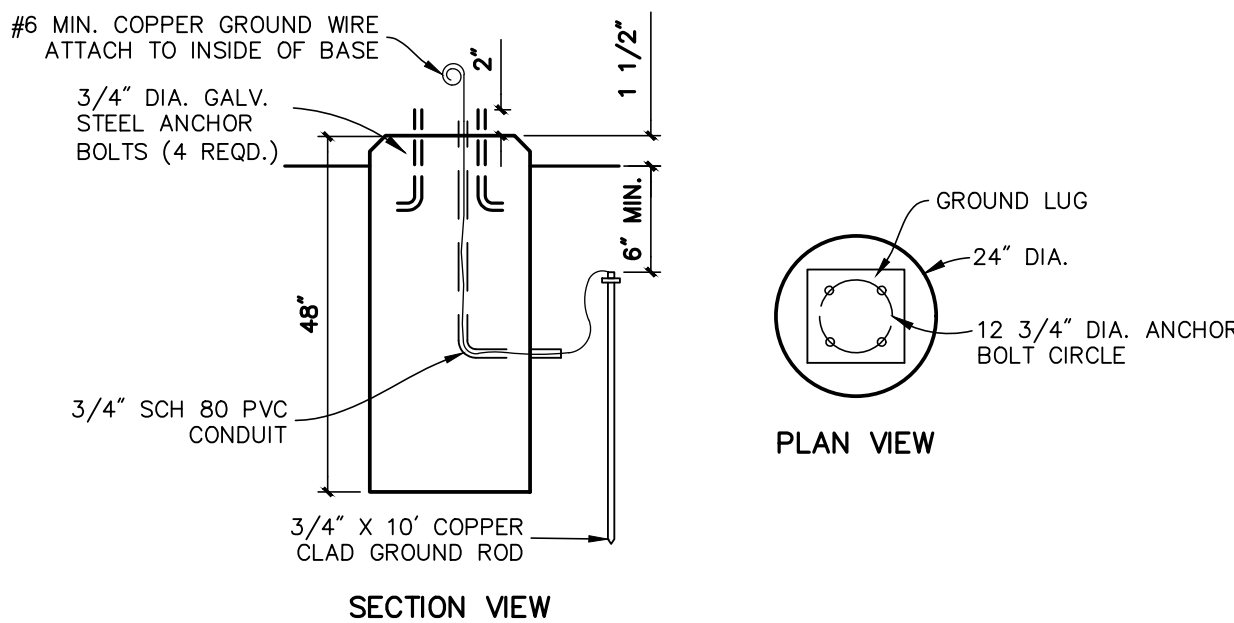
TRANSVERSE RUMBLE STRIP DETAIL

SCALE : NONE



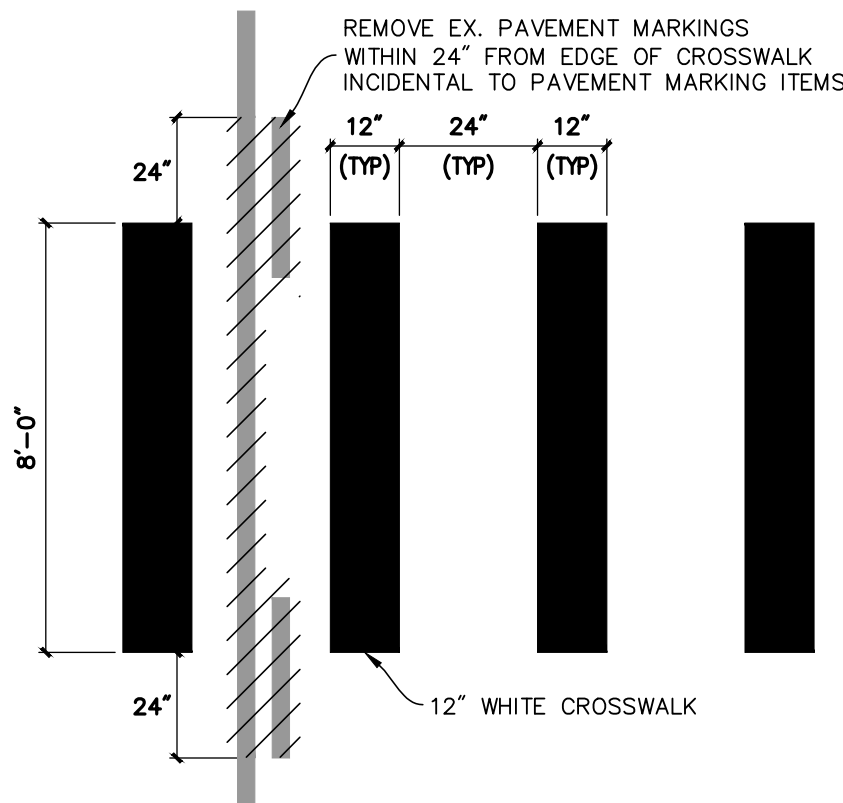
PEDESTAL FOUNDATION DETAIL

SCALE : NONE



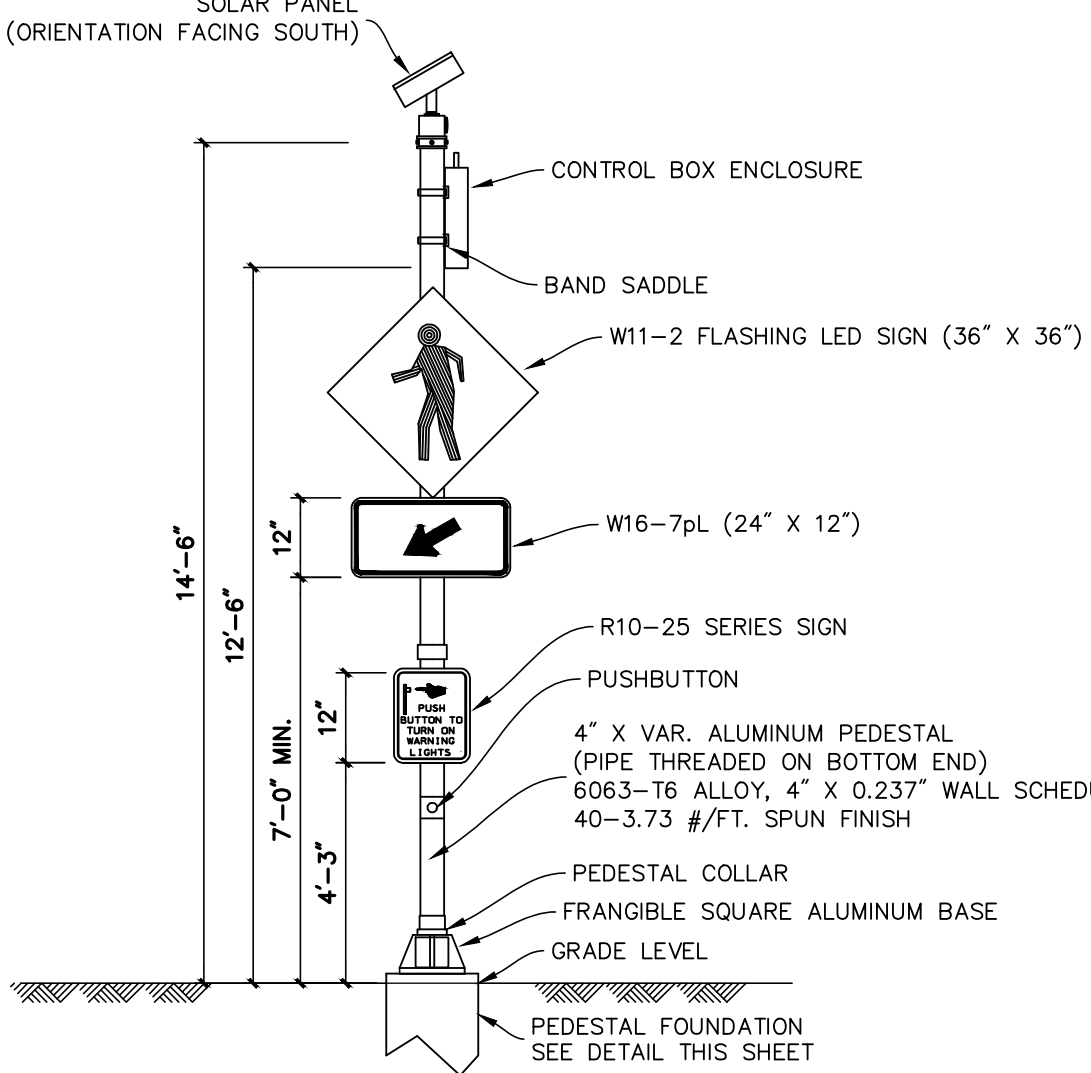
CROSSWALK DETAIL

SCALE : NONE



FLASHING LED SOLAR POWERED SIGN SET

SCALE : NONE



ALL COSTS TO FURNISH AND INSTALL FLASHING SOLAR POWERED SIGN SYSTEM, INCLUDING BUT NOT LIMITED TO SIGNS, POLES, WIRING, SOLAR PANELS, PUSH BUTTONS, PEDESTALS, FOUNDATIONS, GROUND RODS, COUPLINGS, COLLARS, AND ANY OTHER INCIDENTALS NECESSARY TO CONSTRUCT, ERECT, AND MAKE SIGNS OPERATIONAL SHALL BE INCLUDED INTO THE LUMP SUM UNIT PRICE FOR FLASHING LED SOLAR POWERED SIGN SET



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NO.	REVISIONS	BY	DATE	DRAWN
				B.J.M.
				DATE FEB. '21
				CHECKED J.A.S.
				DATE FEB. '21

Prein & Newhof
Engineers • Surveyors • Environmental • Laboratory

GERALD R. FORD INTERNATIONAL AIRPORT
KENT COUNTY, MICHIGAN
AVIATOR WAY RESURFACING,
SIDEWALK AND CROSSWALK
SIGNAGE AND MARKING PLAN

PROJECT NO.
2210189

SHEET NO.

4 OF 4