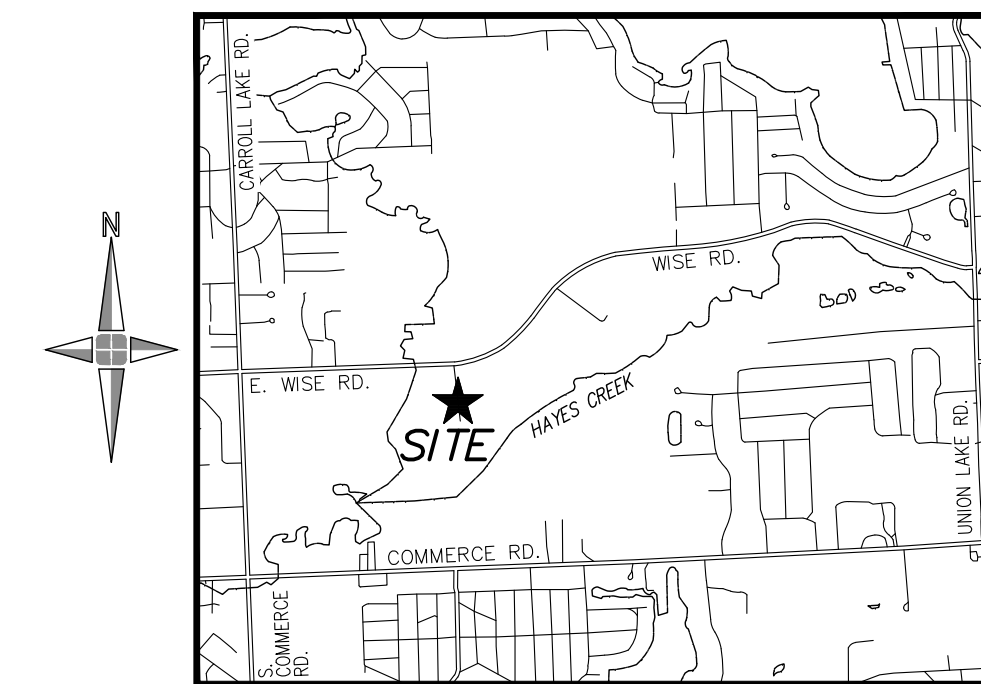


UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

(R) = UTILITY SHOWN FROM RECORDS OR PLANS, & FIELD LOCATED WHERE POSSIBLE.

PRIOR TO THE PLANNED BUILDING IMPROVEMENTS, AND/ OR CONSTRUCTION, THE RESPECTIVE UTILITY COMPANIES MUST BE NOTIFIED TO STAKE THE PRECISE LOCATION OF THEIR UTILITIES.



LOCATION MAP
(NOT TO SCALE)

NOTES:

- CABLE TV, PUBLIC LIGHTING, WATER, & SEWER UTILITY MAPS WERE NOT AVAILABLE AT TIME OF SURVEY.

- THE FOLLOWING RECORDS WERE UTILIZED FOR THE REPRESENTATION OF UNDERGROUND UTILITIES, IN THIS DRAWING:

GAS

GAS LINE LOCATIONS, SHOWN IN THE FOLLOWING CONSUMER'S ENERGY RECORDS, APPEAR TO BE OUTSIDE OF THE SCOPE OF THIS SITE.
 - CONSUMER'S ENERGY GAS DISTRIBUTION MAP, QUARTER SECTION MAP 02-58-11-2 WITH REQUEST DATE OF MARCH 22, 2019.
 - CONSUMER'S ENERGY GAS DISTRIBUTION MAP, QUARTER SECTION MAP 02-58-02-4, WITH REQUEST DATE OF JULY 31, 2022.

ELECTRIC

UNDERGROUND ELECTRIC LINE LOCATIONS, SHOWN IN THE FOLLOWING DTE ENERGY RECORDS, APPEAR TO BE OUTSIDE OF THE SCOPE OF THIS SITE.
 - DTE ELECTRIC FACILITY MAPS, NOS. 229-398, 229-400, 232-398, & 232-400, DATED OCTOBER 03, 2023

TELEPHONE

TELEPHONE RECORDS ARE SCHEMATIC. THEREFORE, THE LOCATION OF UNDERGROUND LINES CANNOT BE DETERMINED. CONTACT MISS DIG TO LOCATE ALL UNDERGROUND UTILITIES, PRIOR TO ANY CONSTRUCTION.
 - AT&T RECORDS, DATED DECEMBER 06, 2023.

- RECORD TOPOGRAPHIC SURVEY REFERENCED. THAT SURVEY USES A DIFFERENT VERTICAL & HORIZONTAL DATUM.

- "WISE ROAD PARK", PROJECT NO. 18861.00, BY GIFFELS WEBSTER, DATED JUNE 08, 2015

- TREE SIZES AND SPECIES ARE THE BEST ESTIMATION OF THE FIELD SURVEYOR. SPECIFIC QUESTIONS REGARDING INDIVIDUAL TREES SHOULD BE DIRECTED TO A QUALIFIED FORESTER.

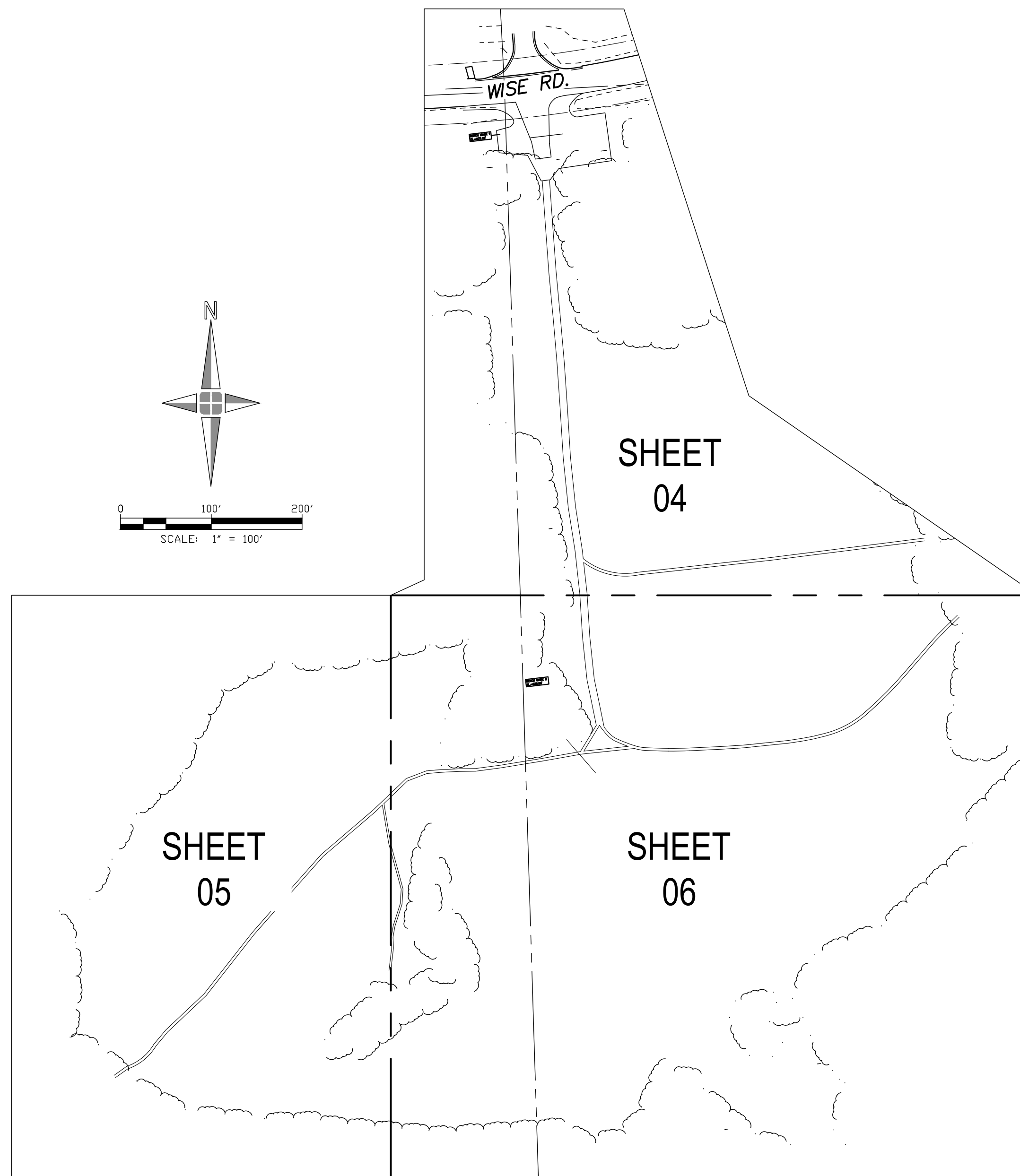
- NO BOUNDARY SURVEY WAS PERFORMED BY GIFFELS-WEBSTER ENGINEERS, INC. AT TIME OF SURVEY.

- NO TITLE COMMITMENT POLICY WAS PROVIDED, THEREFORE EASEMENTS MAY EXIST THAT ARE NOT SHOWN.

- LEGAL DESCRIPTION WAS PREPARED FROM FIELD MEASUREMENTS, CLIENT PROVIDED DOCUMENTS AND TAX ASSESSOR'S RECORDS.

- NO CERTIFICATION CAN BE MADE AS TO LIMITS OF OWNERSHIP.

- MEASURED BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH (2113), NAD83.



BENCH MARK DATA

(NAVD83) DATUM
 BENCH MARK 1

MAG. NAIL IN THE EAST FACE OF A UTILITY (STRAIN) POLE, LOCATED ON THE SOUTH SIDE OF WISE ROAD, +/- 49 FEET WEST OF THE CENTERLINE OF THE ENTRANCE TO THE PARKING LOT OF VICTORY PARK, BEING +/- 2,707 FEET EAST OF THE CENTERLINE OF CARROLL LAKE ROAD.
 ELEVATION=937.22'
 (SHOWN GRAPHICALLY)

BENCH MARK 2

MAG. NAIL IN THE NORTHEAST FACE OF AN ABANDONED UTILITY POLE, LOCATED ON THE WEST SIDE OF A NORTH-SOUTH TRAIL IN VICTORY PARK, BEING SOUTH OF THE ENTRANCE TO THE PARKING LOT OF VICTORY PARK, ALSO BEING +/- 643 FEET SOUTH OF WISE ROAD, AND +/- 2,739 FEET EAST OF THE CENTERLINE OF CARROLL LAKE ROAD.
 ELEVATION=935.96'
 (SHOWN GRAPHICALLY)

PROPERTY DESCRIPTION

(PER TAX RECORD)

9491 WISE RD.
 (TAX ID. 17-11-200-015)

PART OF THE NORTH 1/2 OF SECTION 11, TOWN 02 NORTH, RANGE 08 EAST, IN THE CHARTER TOWNSHIP OF COMMERCE, IN THE COUNTY OF OAKLAND, IN THE STATE OF MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS:

BEGINNING AT THE NORTHEAST SECTION CORNER, THENCE S.53°56'18"W., 3287.46 FEET; THENCE S.01°46'44"E., 444.00 FEET; THENCE S.87°09'37"W., 969.20 FEET; THENCE N.01°31'53"W., 71.30 FEET; THENCE S.53°27'18"W., 448.32 FEET; THENCE N.02°17'37"W., 436.19 FEET; THENCE S.87°13'16"W., 1011.14 FEET; THENCE N.02°48'22"W., 726.00 FEET; THENCE S.87°13'16"W., 330.00 FEET; THENCE N.02°48'23"W., 57.91 FEET; THENCE N.87°02'38"E., 350.00 FEET; THENCE N.02°48'22"W., 1193.97 FEET; THENCE N.87°24'01"E., 2367.65 FEET; THENCE N.86°49'00"E., 2717.13 FEET TO THE POINT OF BEGINNING.

- WETLAND EVALUATION PERFORMED BY ASTI ON DECEMBER 11, 2023 (REPORT DATED 1/9/2024)
- GEOTECHNICAL EVALUATION PERFORMED BY G2 CONSULTING GROUP ON JANUARY 24, 2024 (REPORT DATED MARCH 22, 2024)

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
	T-02-N R-08-E

Professional Seal:



Know what's below.
 Call before you dig.

DATE:	ISSUE:
04-04-2024	ROOC PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
06-27-2024	FOR HEALTH DEPT
07-31-2024	BID SET
09-24-2024	CONSTRUCTION SET

Developed For:
CHARTER TOWNSHIP OF COMMERCE PARKS & RECREATION DEPARTMENT
 1485 OAKLEY PARK ROAD
 COMMERCE TOWNSHIP, MI 48390
 PH: 248-926-0063

OVERALL EXISTING CONDITIONS

VICTORY PARK IMPROVEMENTS

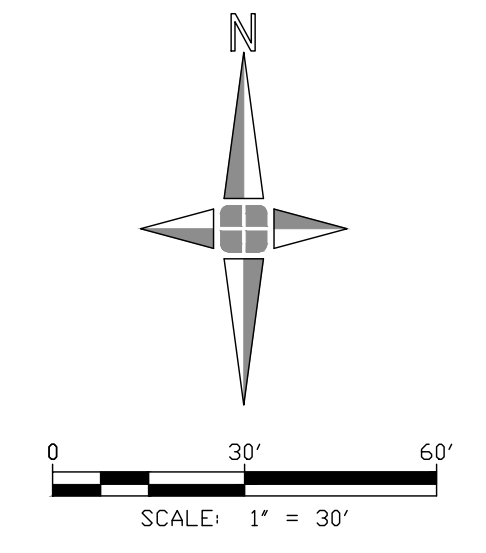
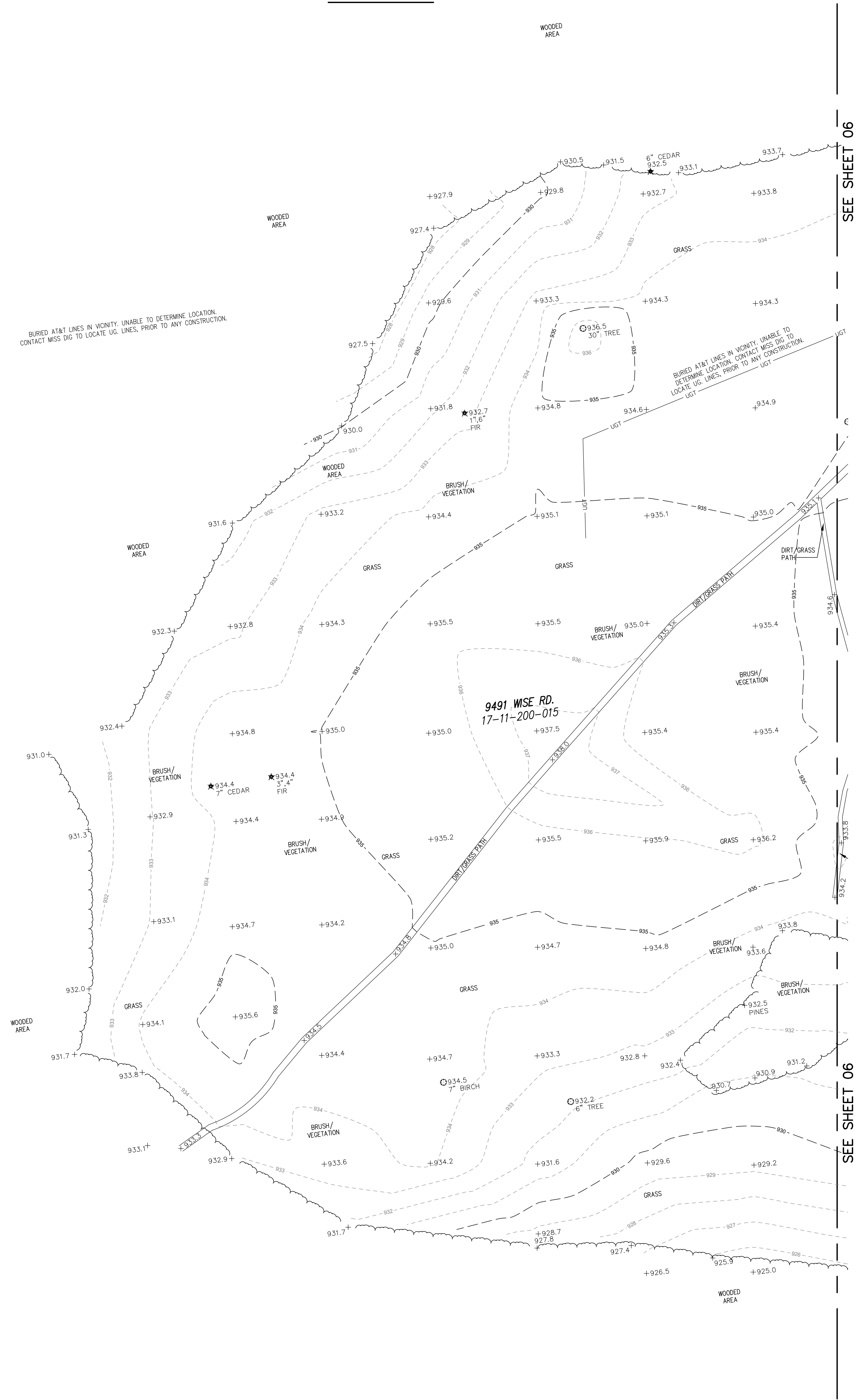
COMMERCE TOWNSHIP, OAKLAND COUNTY, MICHIGAN

Date:	02-19-2024
Scale:	1" = 100'
Sheet:	03
Project:	20195.00

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FOR CONSTRUCTION

SHEET 05



Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	



DATE:	ISSUE:
04-04-2024	RCCD PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
06-27-2024	FOR HEALTH DEPT
07-31-2024	BID SET
09-24-2024	CONSTRUCTION SET

Developed For:
**CHARTER TOWNSHIP OF
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RECREATION DEPARTMENT**

1485 OAKLEY PARK ROAD
COMMERCE TOWNSHIP, MI
48390

PH: 248-926-0063

**EXISTING
CONDITIONS DETAIL
SHEET 2 OF 3**

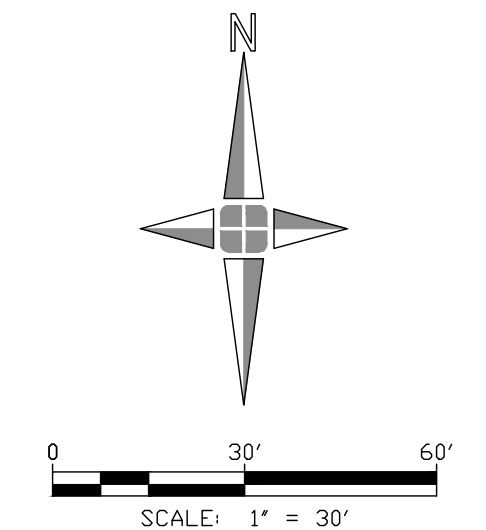
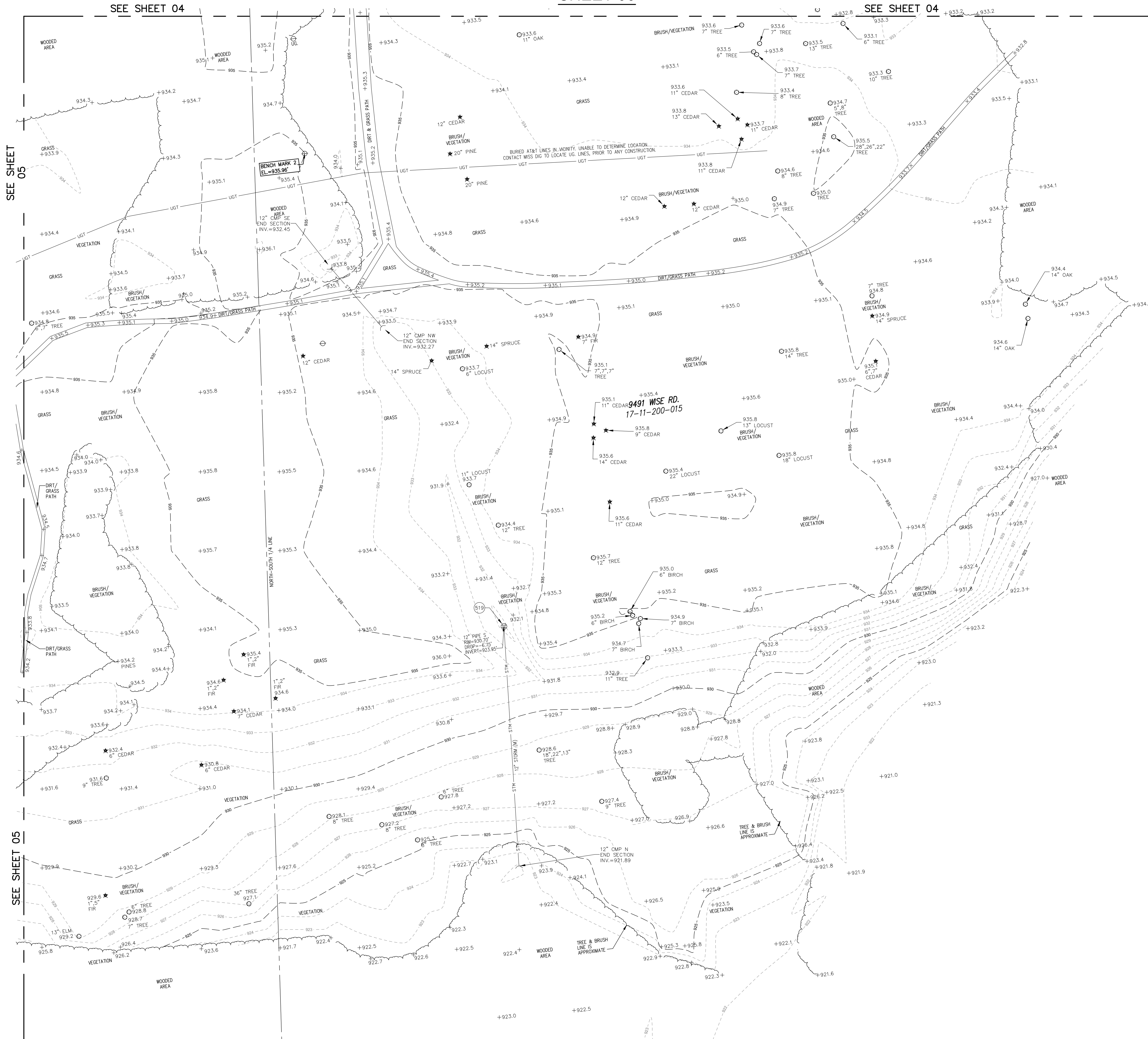
VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	05
Project:	20195.00

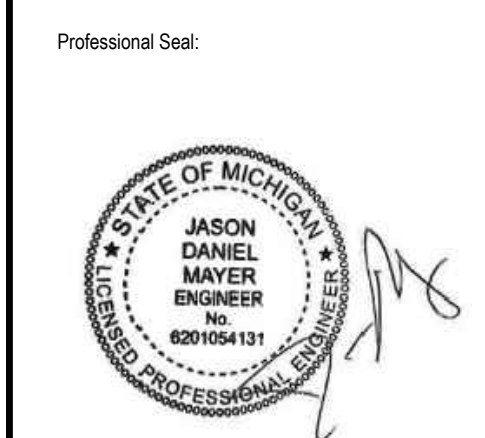
FOR CONSTRUCTION

SHEET 06



Engineers
 Surveyors
 Planners
 Landscape Architects
 1025 East Maple Road
 Suite 100
 Birmingham, MI 48009
 p (248) 852-3100
 f (313) 962-5068
 www.giffelswebster.com

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	



DATE:	ISSUE:
04-04-2024	ROCC PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
06-27-2024	FOR HEALTHY DEPT
07-31-2024	BID SET
09-24-2024	CONSTRUCTION SET

Developed For:
**CHARTER TOWNSHIP OF
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 1485 OAKLEY PARK ROAD
 COMMERCE TOWNSHIP, MI
 48390
 PH: 248-926-0063

**EXISTING
 CONDITIONS DETAIL
 SHEET 3 OF 3**

**VICTORY PARK
 IMPROVEMENTS**

COMMERCE TOWNSHIP,
 OAKLAND COUNTY,
 MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	06
Project:	20195.00

FOR CONSTRUCTION

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	

Professional Seal:



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COMMERCE TOWNSHIP, MI
48390

PH: 248-926-0063

**OVERALL
IMPROVEMENTS
PLAN**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

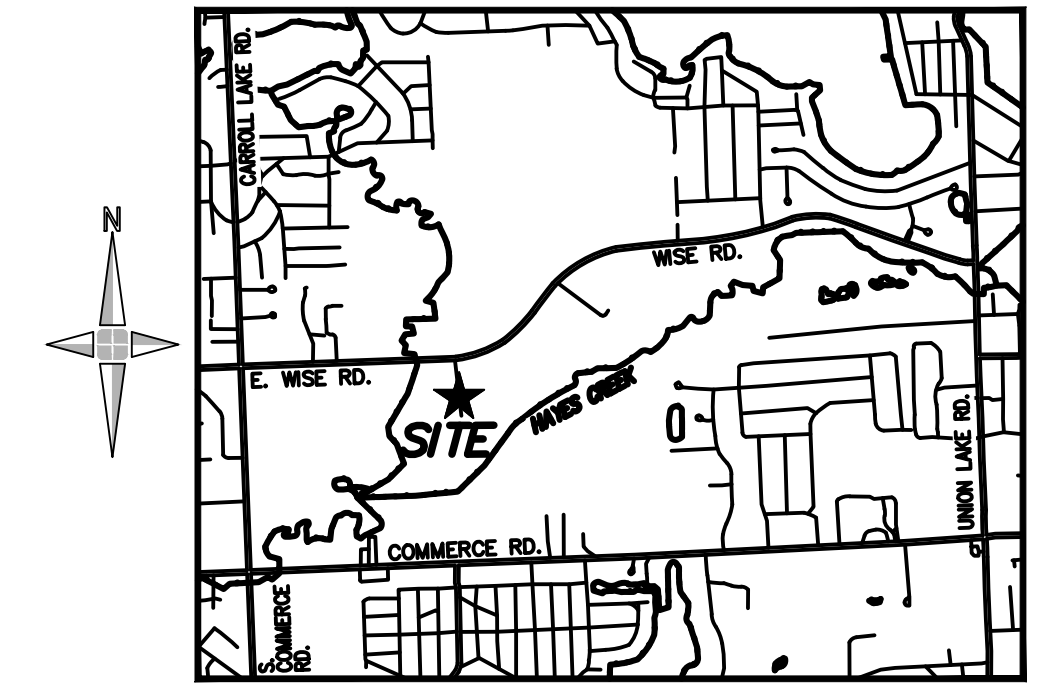
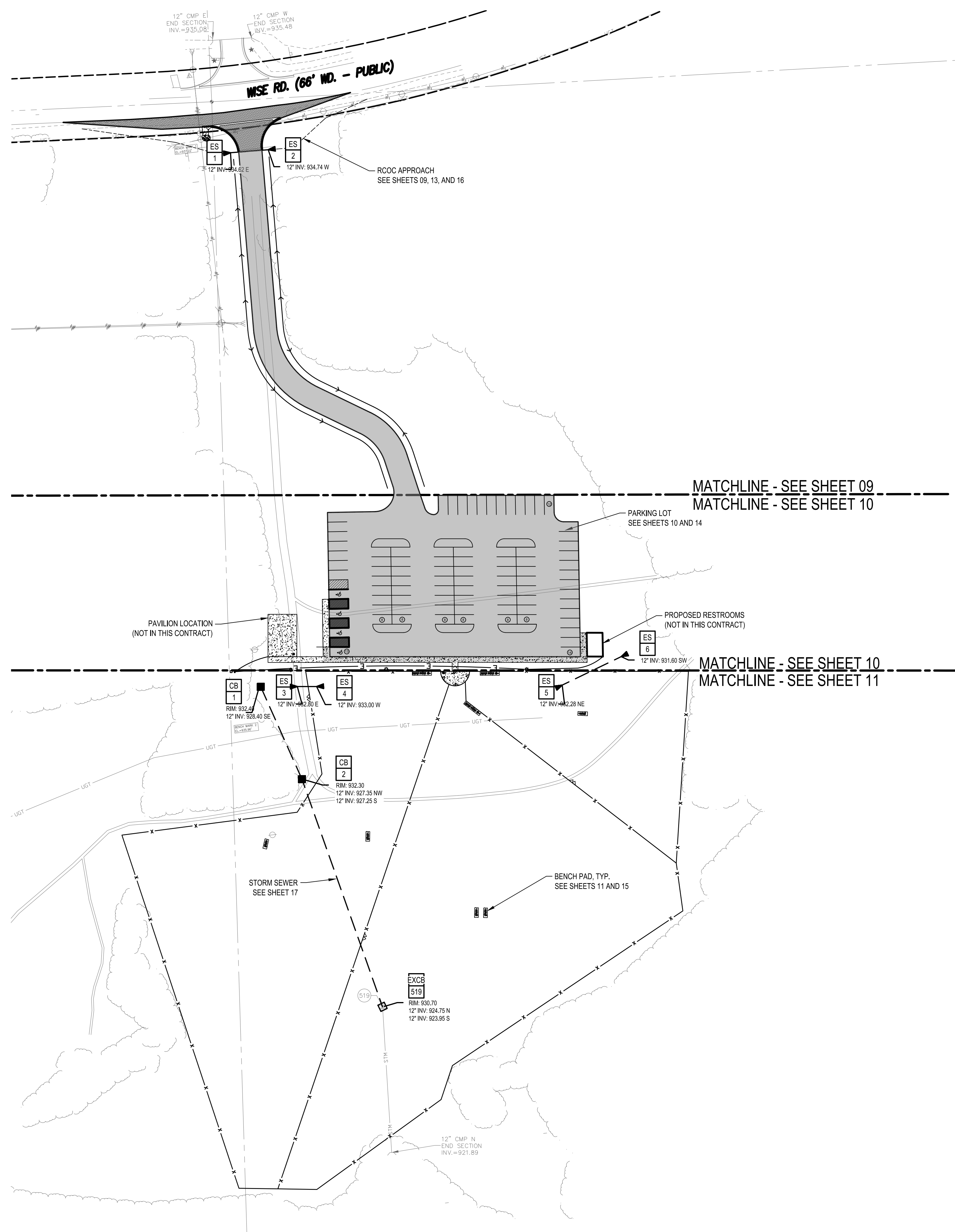
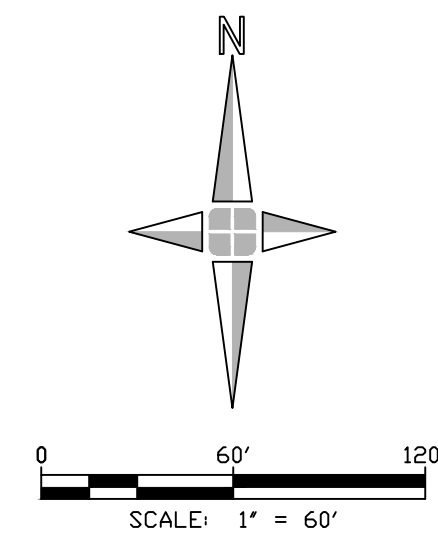
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Scale:	1" = 60'
Sheet:	08
Project:	20195.00

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LEGEND

- ROCOC APPROACH
- DRIVEWAY PAVEMENT
- 4" CONCRETE SIDEWALK
- THICKENED EDGE SIDEWALK

NOTE: SEE PAVEMENT CROSS SECTIONS
SHEET 18



LOCATION MAP
(NOT TO SCALE)

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	

Professional Seal:



DATE:	ISSUE:
04-04-2024	RCOC PERMIT SUBMISSION
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COMMERCE PARKS &
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1485 OAKLEY PARK ROAD
COMMERCE TOWNSHIP, MI
48390
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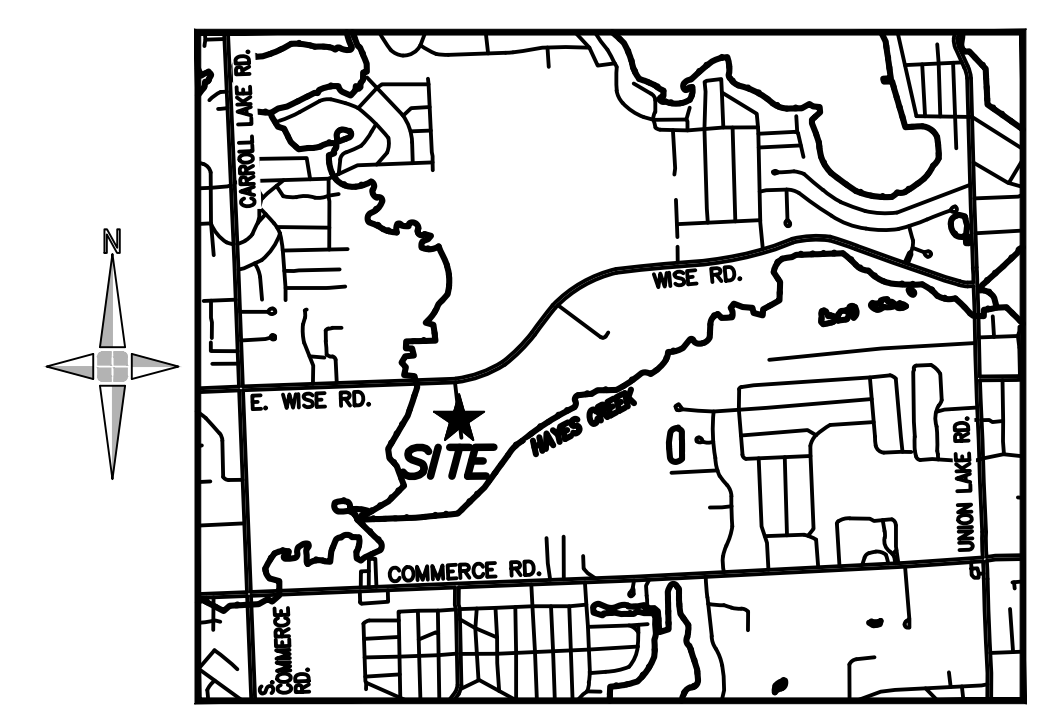
**IMPROVEMENTS
PLAN DETAIL
SHEET 1 OF 3**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	09
Project:	20195.00

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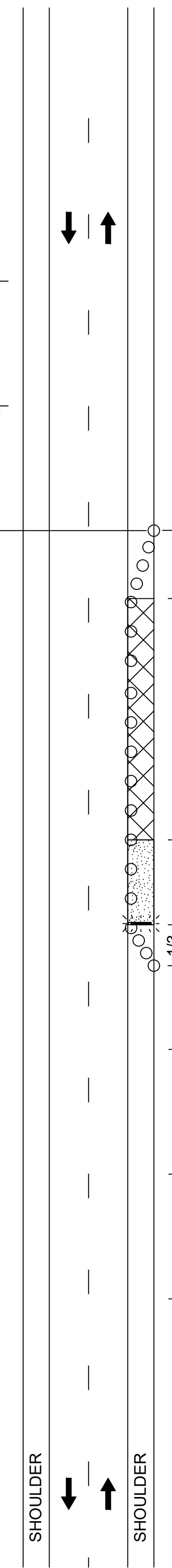


LOCATION MAP
(NOT TO SCALE)

KEY

- ○ ○ CHANNELIZING DEVICES
- ⚡ LIGHTED ARROW PANEL (CAUTION MODE)
- ← TRAFFIC FLOW

B, D AND L VALUES
"B" VALUE - 230 FT
"D" VALUE - 450 FT
"L" VALUE - 495 FT



**SHOULDER CLOSURE
DETAIL FOR CONSTRUCTION**

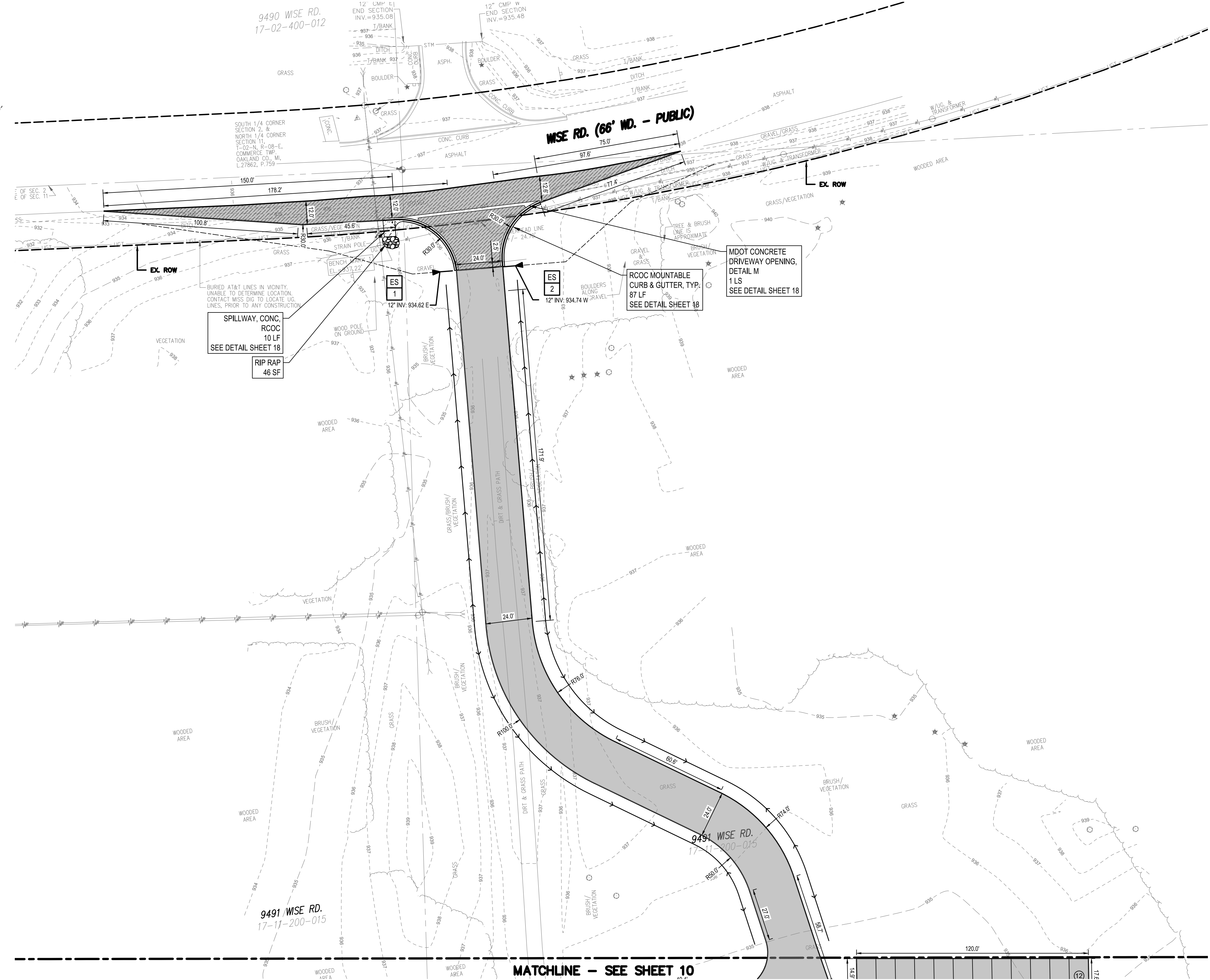
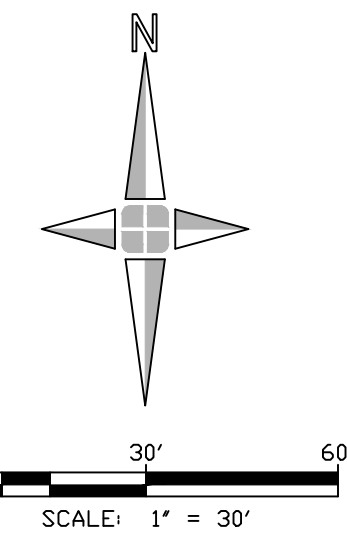
QUANTITIES THIS SHEET

NO.	ITEM DESCRIPTION	QUANTITY
1	RCOC APPROACH HMA	151 TON
2	10" RCOC 21AA AGGREGATE, RCOC MODIFIED	448 SYD
3	RCOC MOUNTABLE CURB & GUTTER	87 LF
4	MDOT CONCRETE DRIVEWAY OPENING, DETAIL M	1 LS
5	SPILLWAY, CONC, RCOC	10 LF
6	RIP RAP	46 SF
7	DRIVEWAY HMA	219 TON
8	AGGREGATE BASE, 6 INCH, MDOT 21AA	1,194 SYD

LEGEND

- RCOC APPROACH
- DRIVEWAY PAVEMENT
- 4" CONCRETE SIDEWALK
- THICKENED EDGE SIDEWALK

NOTE: SEE PAVEMENT CROSS SECTIONS
SHEET 18



H:\2020\20195.00 Victory Park Improvements\Design\CAD\08_11 Improvements Plan.dwg

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	

Professional Seal:



Know what's below.
Call before you dig.

DATE:	ISSUE:
04-04-2024	RCOC PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
06-27-2024	FOR HEALTH DEPT
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Developed For:
**CHARTER TOWNSHIP OF
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48390
PH: 248-926-0063

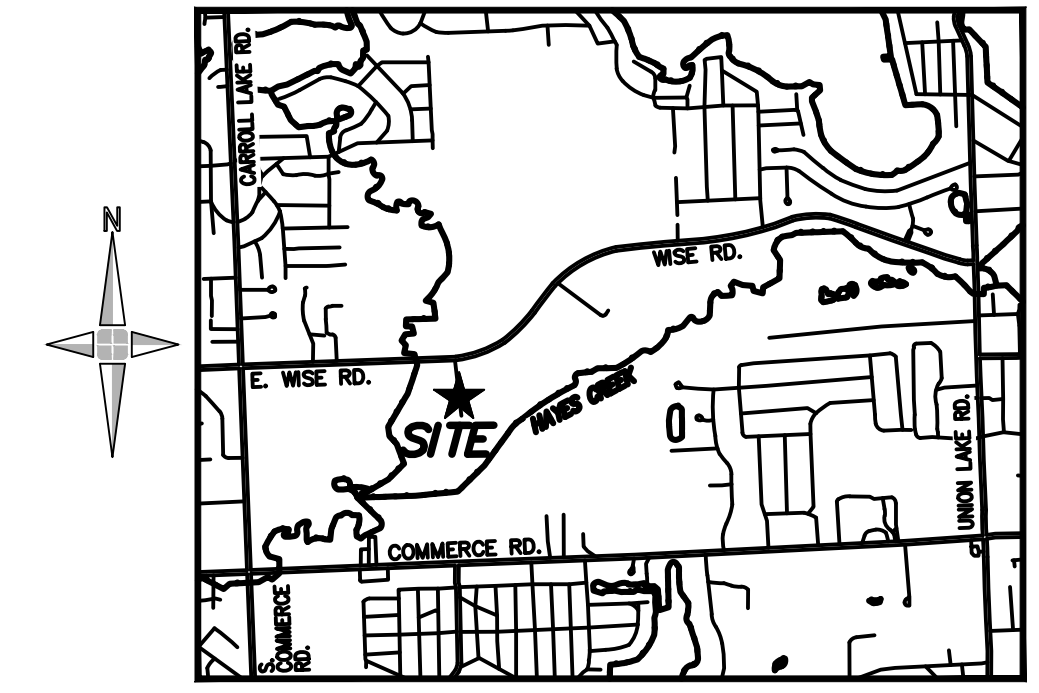
**IMPROVEMENTS
PLAN DETAIL
SHEET 2 OF 3**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	10
Project:	20195.00

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LOCATION MAP
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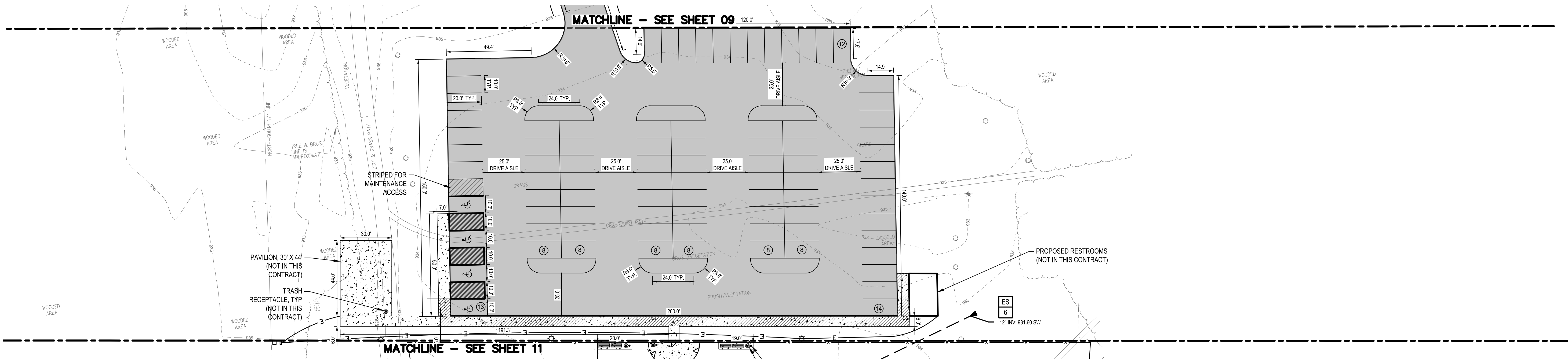
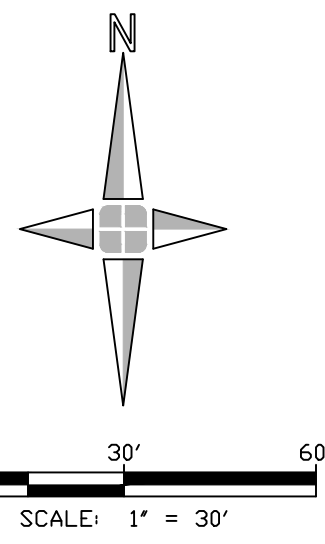
QUANTITIES THIS SHEET

NO.	ITEM DESCRIPTION	QUANTITY
1	DRIVEWAY HMA	887 TON
2	THICKENED EDGE SIDEWALK CONC	1,896 SF
3	AGGREGATE BASE, 6 INCH, MDOT 21AA	4,866 SYD
4	SIDEWALK, CONC, 4 INCH	2,061 SF
5	AGGREGATE BASE, 6 INCH, CLASS II SAND	247 SYD
6	PARKING LOT STRIPING	1 LS

LEGEND

- RCOC APPROACH
- DRIVEWAY PAVEMENT
- 4" CONCRETE SIDEWALK
- THICKENED EDGE SIDEWALK

NOTE: SEE PAVEMENT CROSS SECTIONS
SHEET 18



FOR CONSTRUCTION

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	

Professional Seal:



Know what's below.
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Developed For:
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**IMPROVEMENTS
PLAN DETAIL
SHEET 3 OF 3**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	AS NOTED
Sheet:	11
Project:	20195.00

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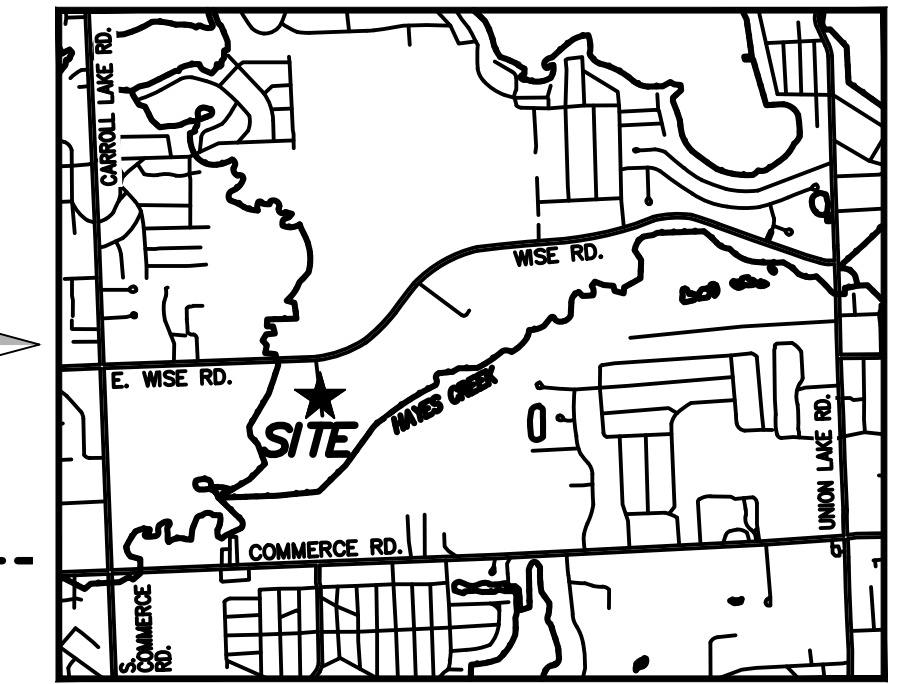
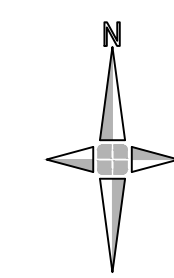
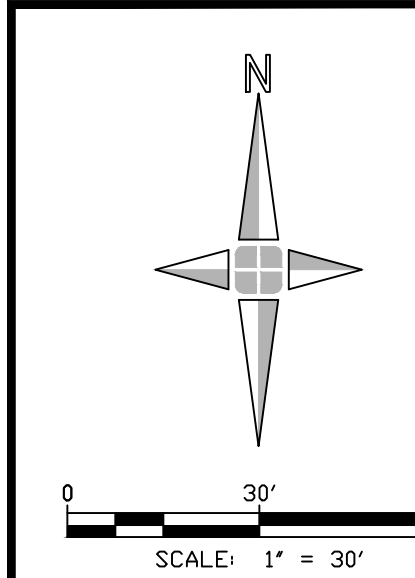
QUANTITIES THIS SHEET

NO.	ITEM DESCRIPTION	QUANTITY
1	SIDEWALK, CONC, 4 INCH	793 SF
2	AGGREGATE BASE, 6 INCH, CLASS II SAND	110 SYD
3	DOG WASTE STATION	4 EA

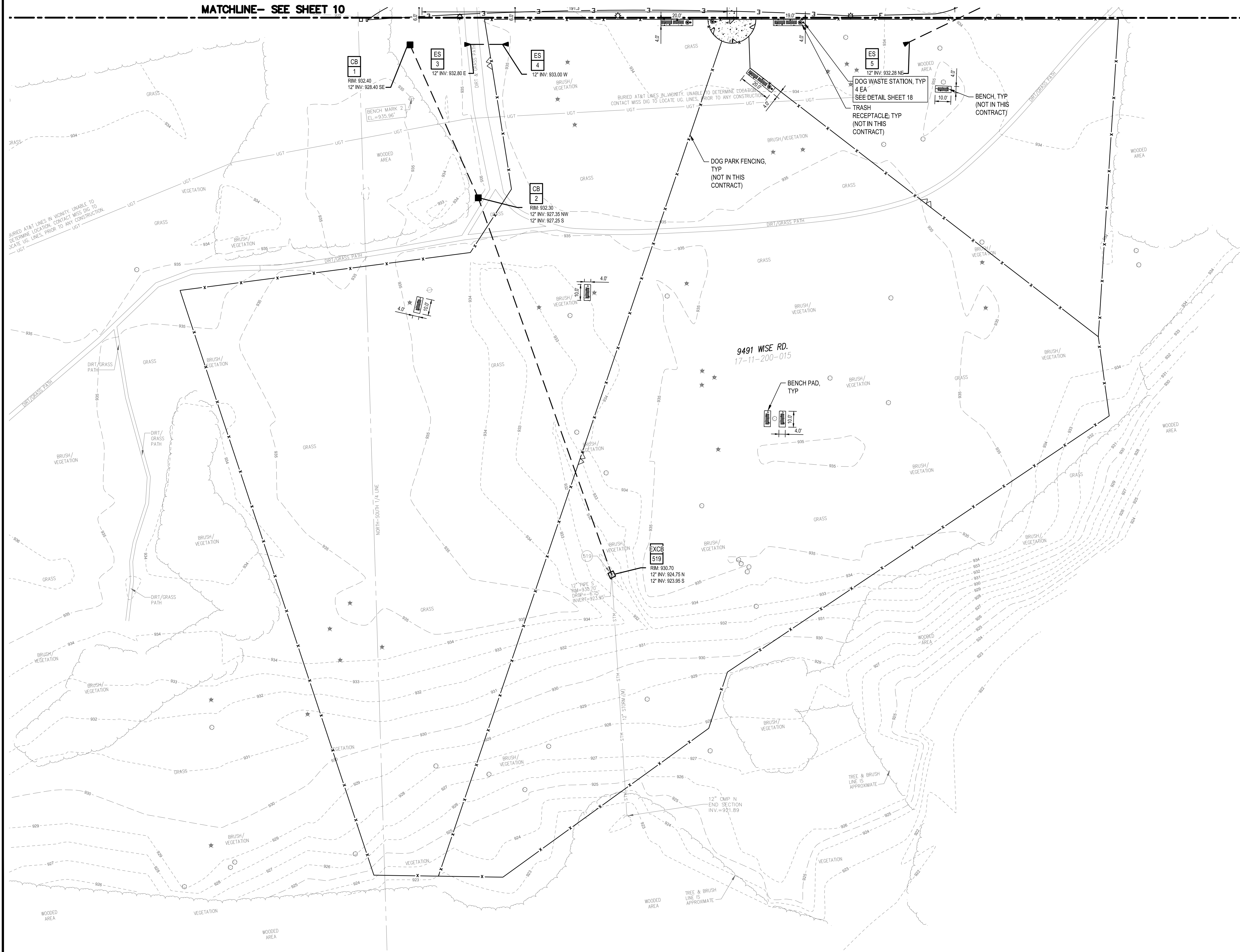
LEGEND

- RCOC APPROACH
- DRIVEWAY PAVEMENT
- 4" CONCRETE SIDEWALK
- THICKENED EDGE SIDEWALK

NOTE: SEE PAVEMENT CROSS SECTIONS SHEET 18. ALL PADS WITH BENCHES TO BE 4" CONCRETE SIDEWALK.

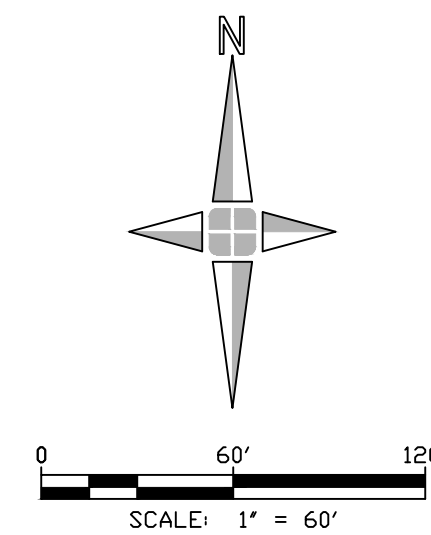


LOCATION MAP
(NOT TO SCALE)



H:\2020\20190500 Victory Park Improvements\Design\CAD\08_11 Improvements Plan.dwg

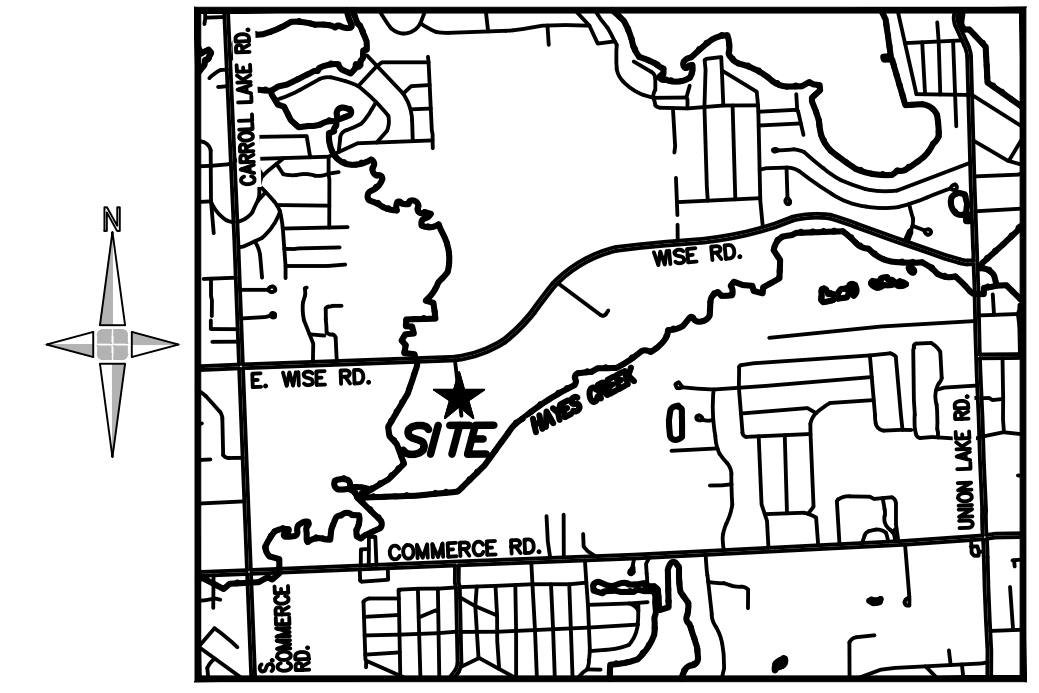
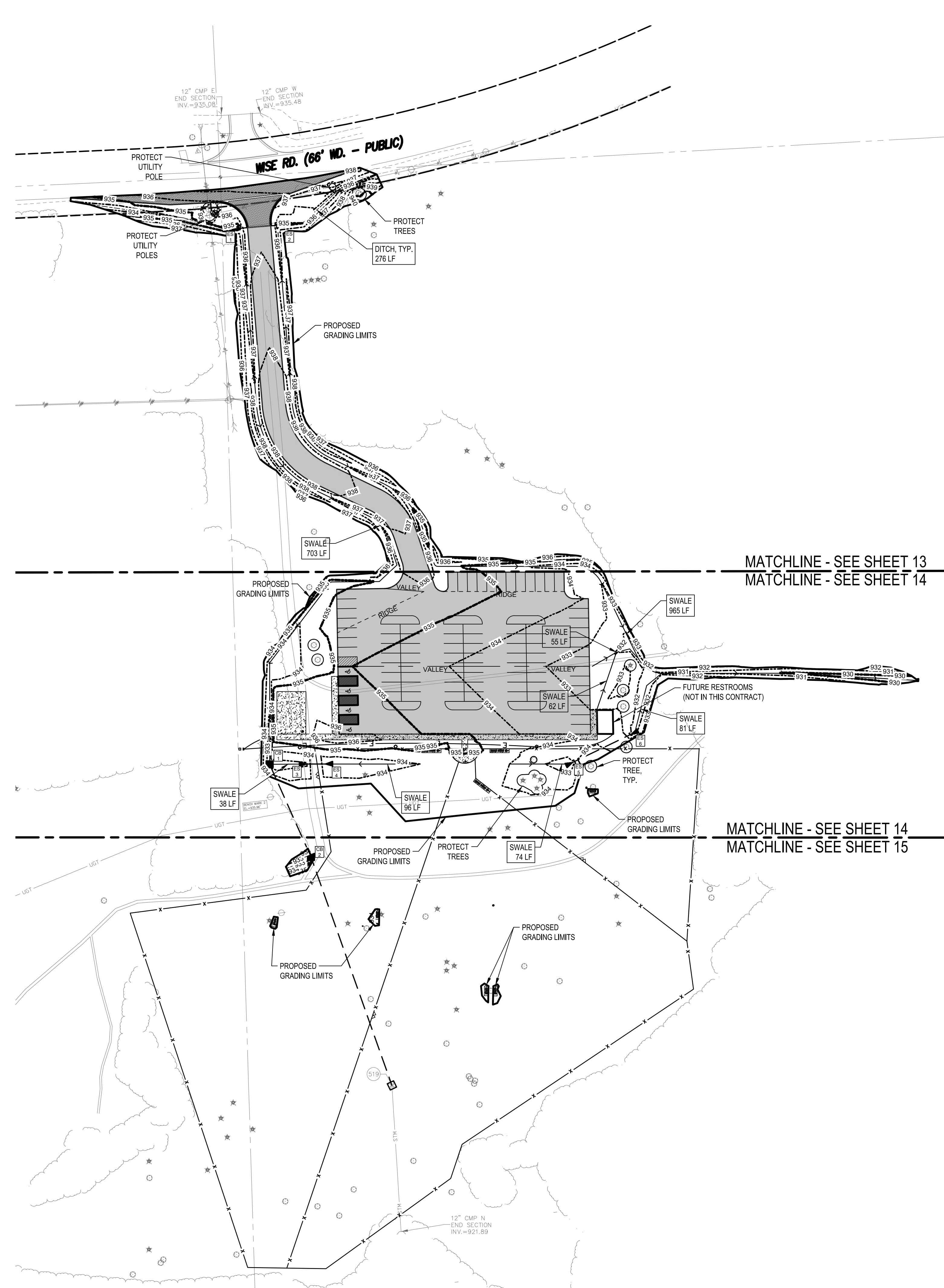
FOR CONSTRUCTION



GRADING QUANTITIES

NO.	ITEM DESCRIPTION	QUANTITY
1	EXCAVATION, EARTH	1 LS
2	GRADING ADJACENT TO PAVEMENT	1 LS
3	DITCH, TYP.	276 LF
4	SWALE	2,104 LF

- NOTES:
- "EXCAVATION, EARTH" ITEM INCLUDES ALL GRADING NECESSARY TO ACHIEVE CROSS SECTIONS FOR PAVEMENT AS SEEN ON SHEET 18.
 - "GRADING ADJACENT TO PAVEMENT" IS ALL GRADING NECESSARY TO REACH PROPOSED GRADES / CONTOURS AS SEEN ON THIS SHEET AND SHEETS 13-15.

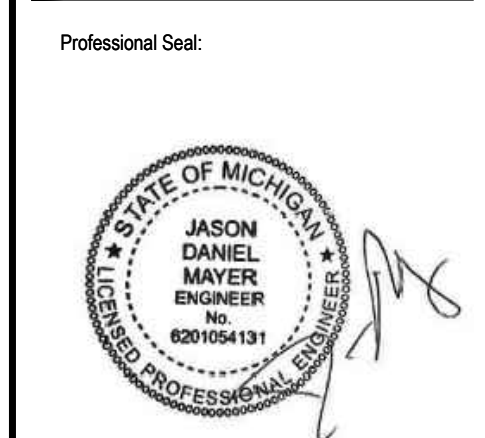


LOCATION MAP
(NOT TO SCALE)

MATCHLINE - SEE SHEET 13
MATCHLINE - SEE SHEET 14

MATCHLINE - SEE SHEET 14
MATCHLINE - SEE SHEET 15

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	



DATE:	ISSUE:
04-04-2024	RDCD PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
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09-24-2024	CONSTRUCTION SET

Developed For:
**CHARTER TOWNSHIP OF
COMMERCE PARKS &
RECREATION DEPARTMENT**

1485 OAKLEY PARK ROAD
COMMERCE TOWNSHIP, MI
48390

PH: 248-926-0063

**OVERALL GRADING
PLAN**

**VICTORY PARK
IMPROVEMENTS**

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 60'
Sheet:	12
Project:	20195.00

FOR CONSTRUCTION

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
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Professional Seal:



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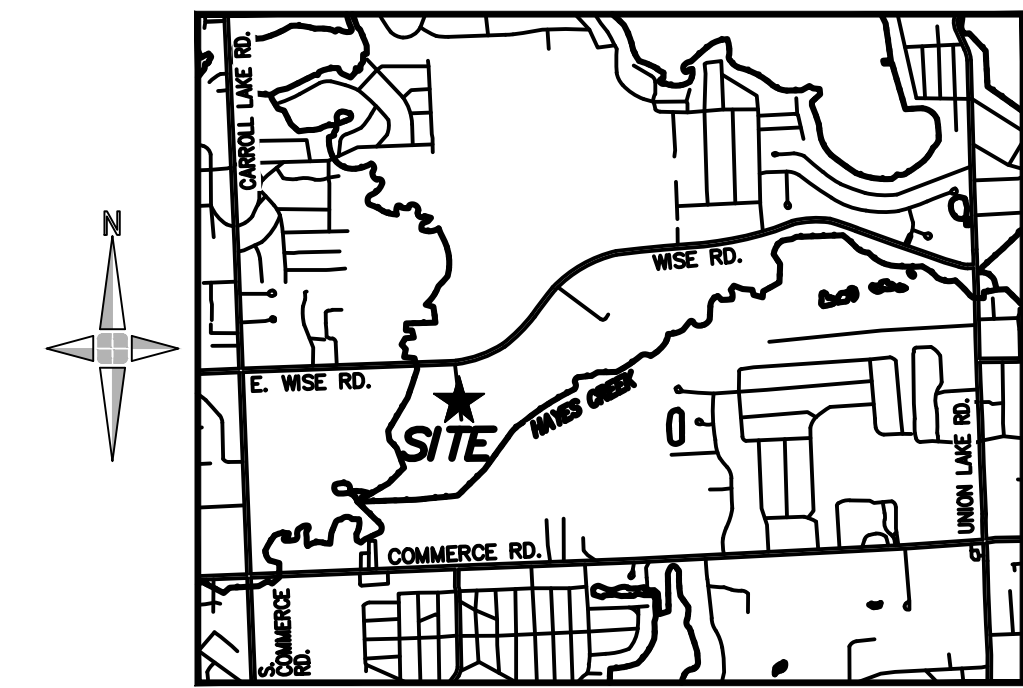
**GRADING PLAN
DETAIL
SEE 1 OF 3**

**VICTORY PARK
IMPROVEMENTS**

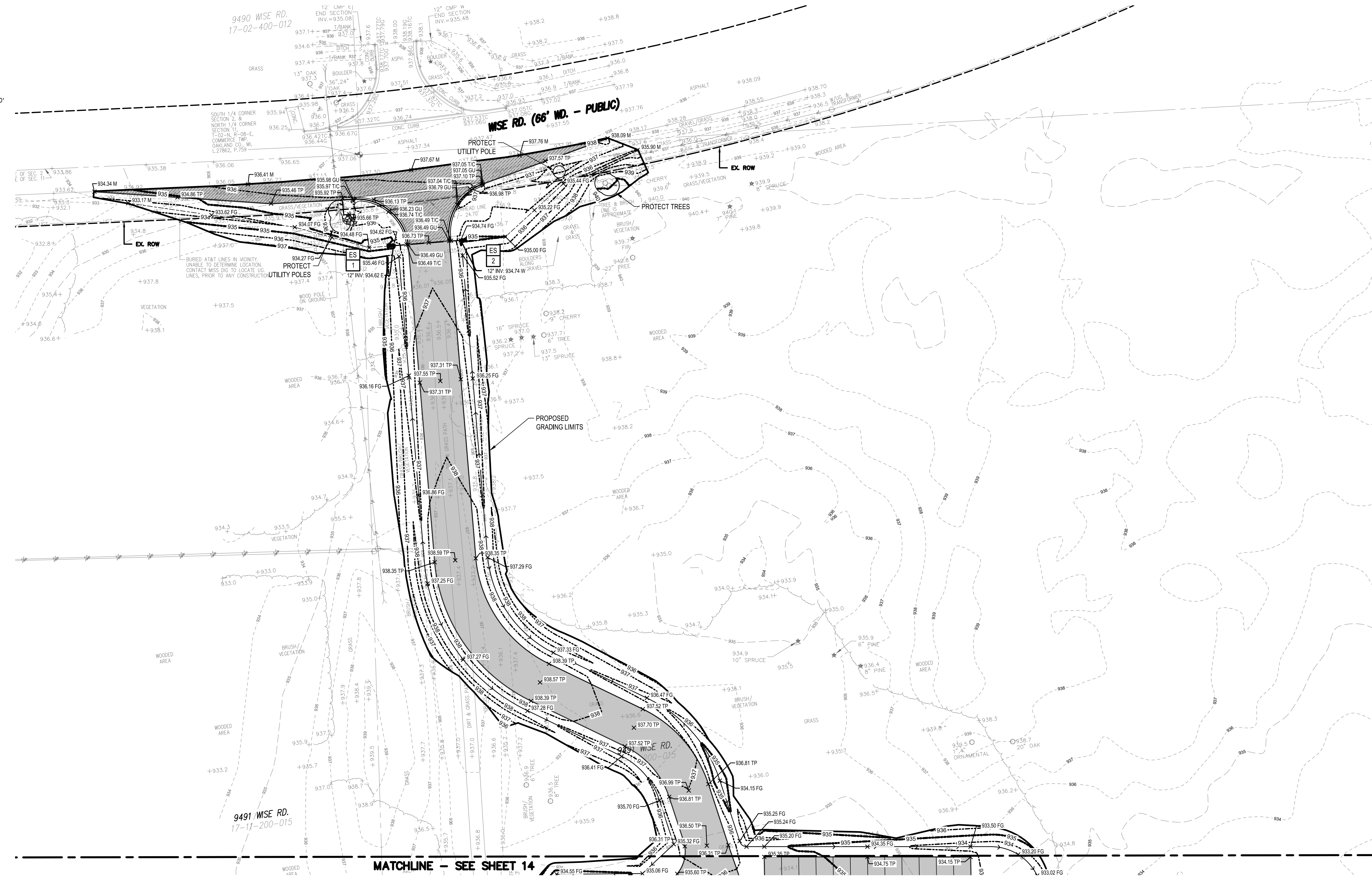
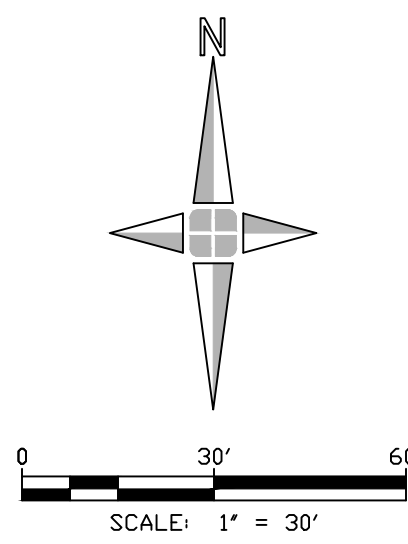
COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	13
Project:	20195.00

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LOCATION MAP
(NOT TO SCALE)



H:\2020\20190500_Victory Park Improvements\Design\CAD\12_15_Grading_Plan.dwg

FOR CONSTRUCTION

Executive:	JDM
Manager:	DB
Designer:	BDM
Quality Control:	DB
Section:	11
T-02-N R-08-E	

Professional Seal:



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DATE:	ISSUE:
04-04-2024	RDCD PERMIT SUBMISSION
06-14-2024	FOR TOWNSHIP REVIEW
06-27-2024	FOR HEALTH DEPT
07-31-2024	BID SET
09-24-2024	CONSTRUCTION SET

Developed For:
**CHARTER TOWNSHIP OF
COMMERCE PARKS &
RECREATION DEPARTMENT**

1485 OAKLEY PARK ROAD
COMMERCE TOWNSHIP, MI
48390

PH: 248-926-0063

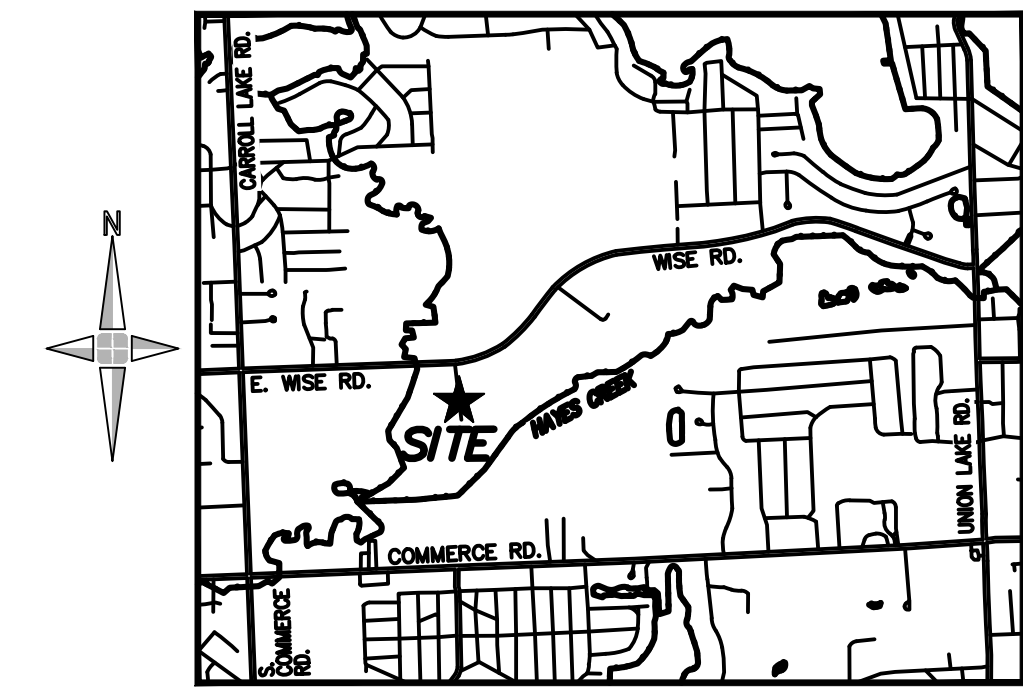
**GRADING PLAN
DETAIL
SEE 2 OF 3**

VICTORY PARK
IMPROVEMENTS

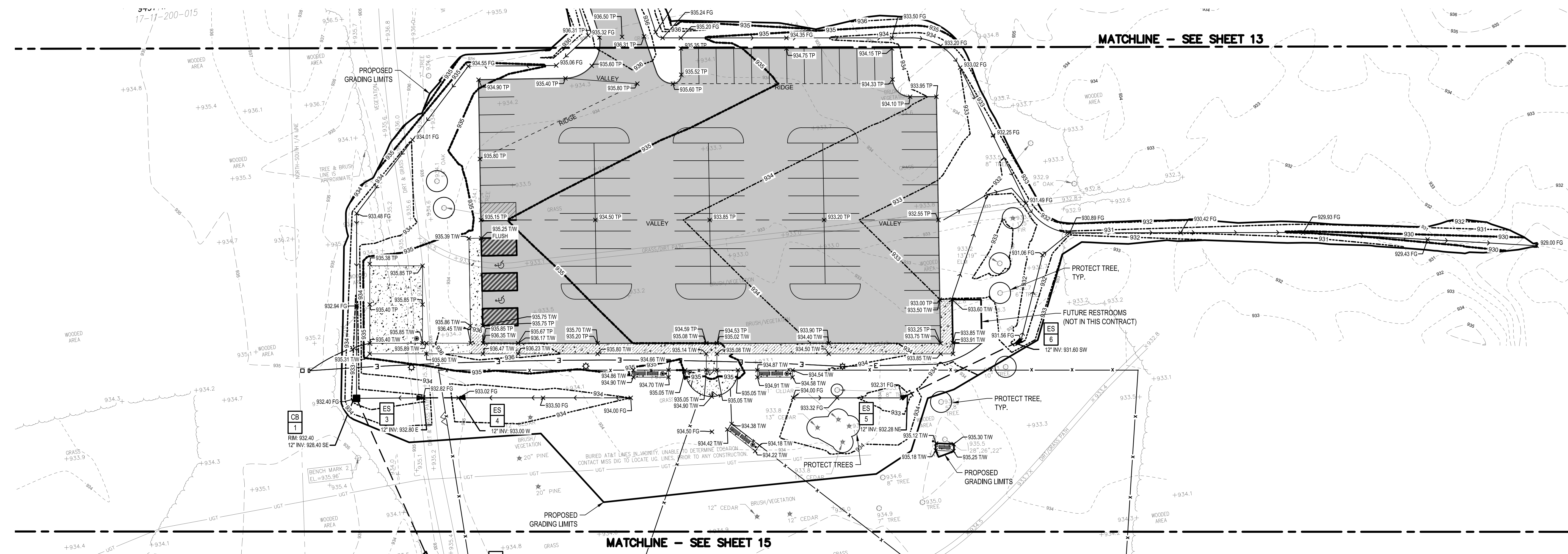
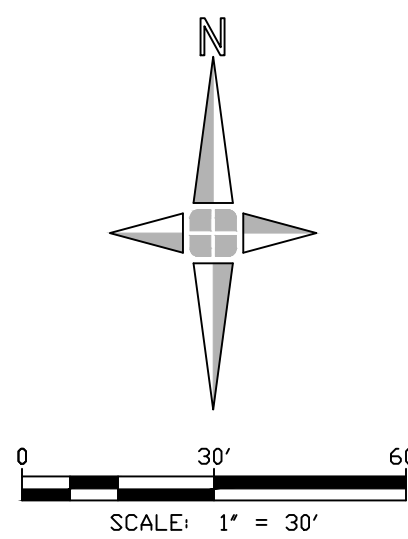
COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	1" = 30'
Sheet:	14
Project:	20195.00

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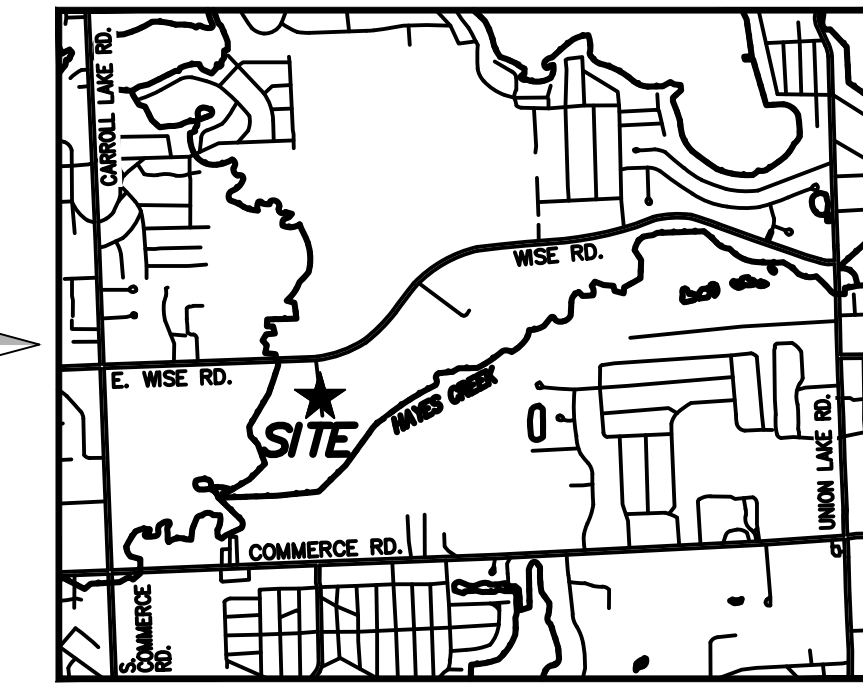
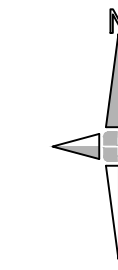
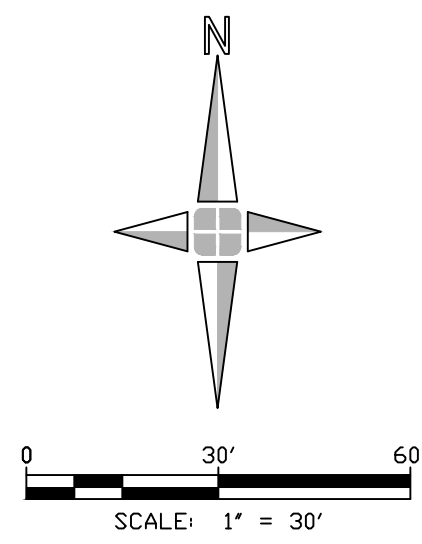


LOCATION MAP
(NOT TO SCALE)



H:\20\2010\20195.00 Victory Park Improvements\Design\CAD\12_15 Grading Plan.dwg

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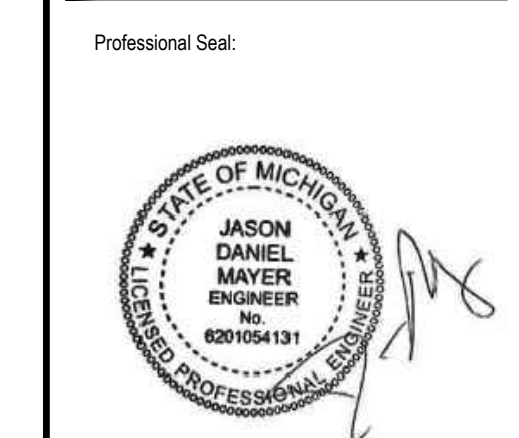
LOCATION MAP
(NOT TO SCALE)

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DATE:	ISSUE:
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48390

PH: 248-926-0063

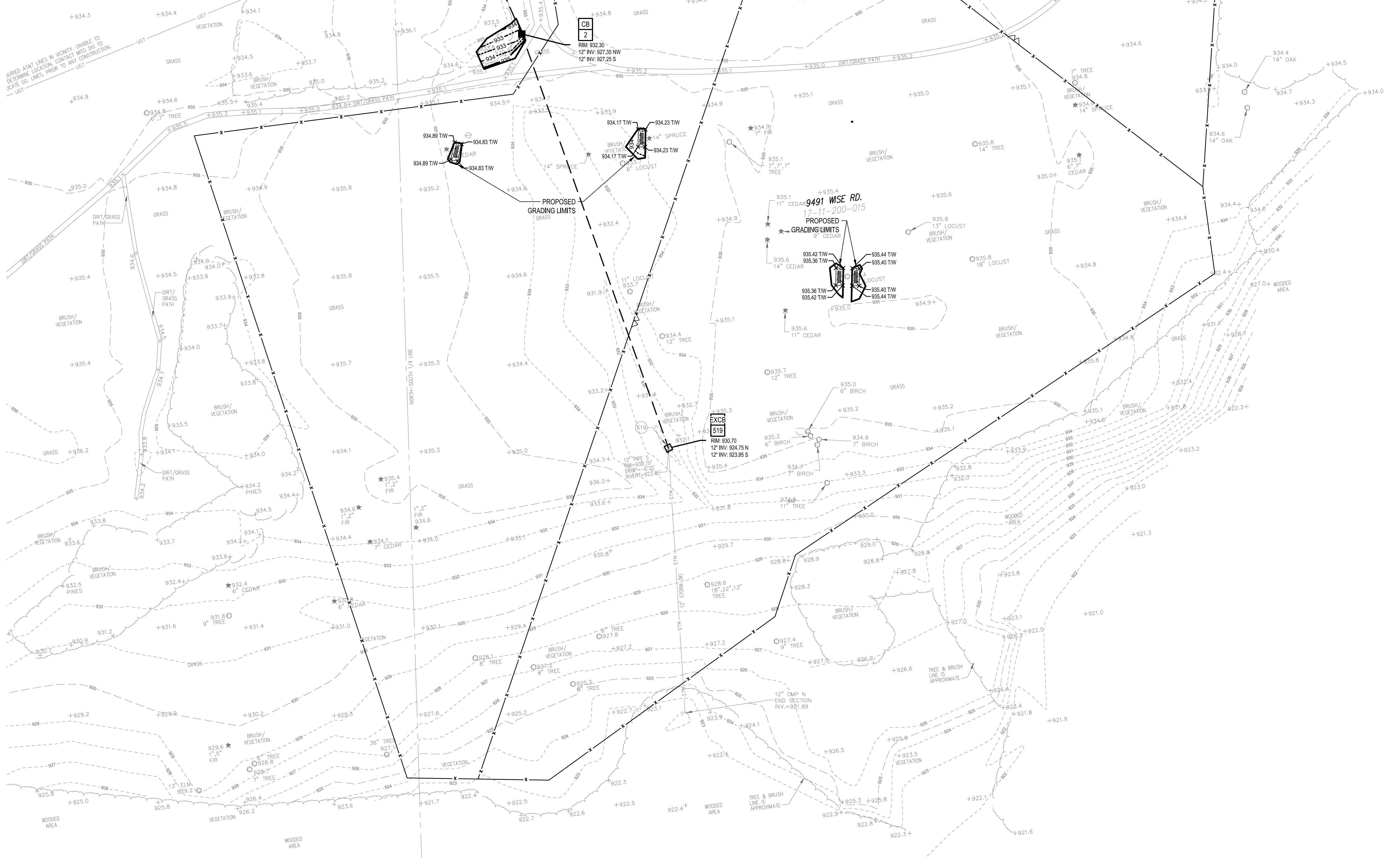
**GRADING PLAN
DETAIL
SEE 3 OF 3**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date: 02-19-2024
Scale: 1" = 30'
Sheet: 15
Project: 20195.00

MATCHLINE - SEE SHEET 14



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Designer:	BDM
Quality Control:	DB
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DATE	ISSUE
04-04-2024	RCCO PERMIT SUBMISSION
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09-24-2024	CONSTRUCTION SET

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COMMERCE PARKS &
RECREATION DEPARTMENT

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COMMERCE TOWNSHIP, MI
48390

PH: 248-926-0063

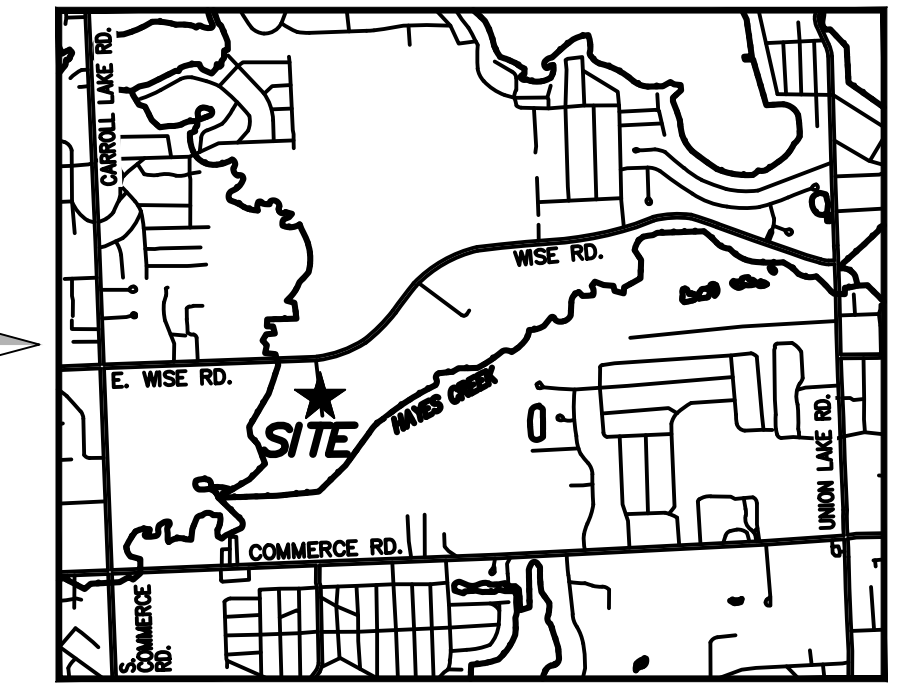
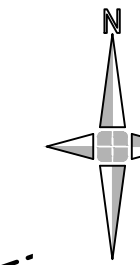
**UTILITIES PLAN AND
PROFILES - NORTH**

VICTORY PARK
IMPROVEMENTS

COMMERCE TOWNSHIP,
OAKLAND COUNTY,
MICHIGAN

Date:	02-19-2024
Scale:	H: 1" = 30'; V: 1" = 5'
Sheet:	16
Project:	20195.00

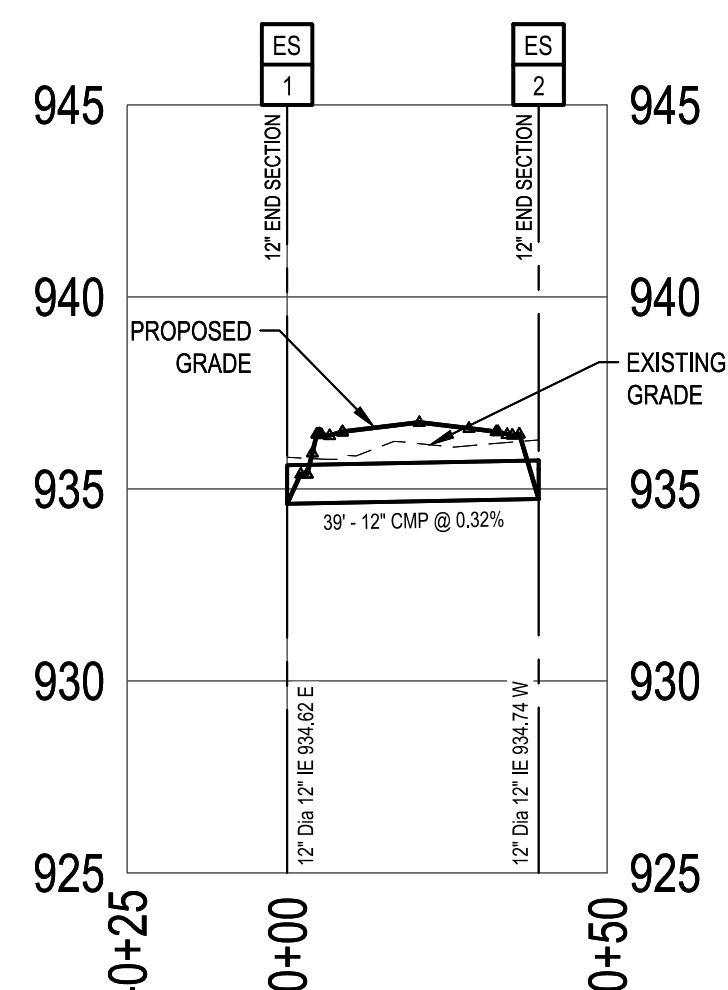
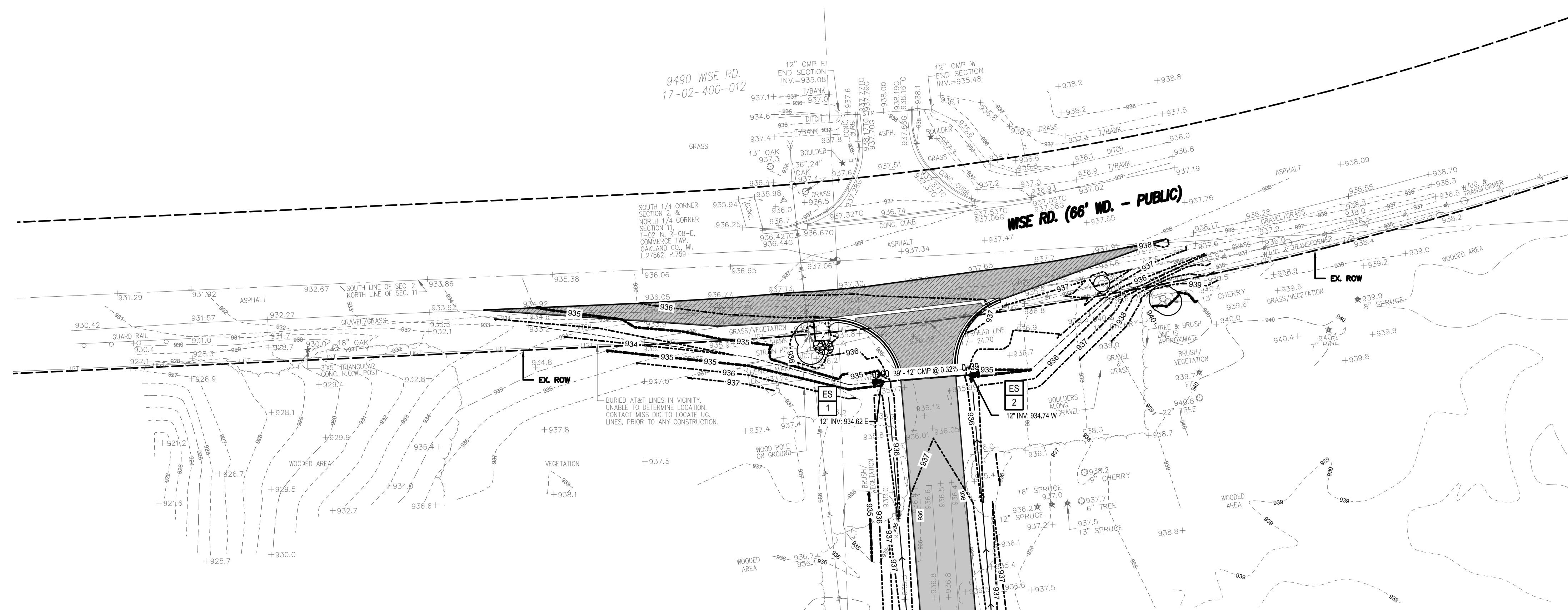
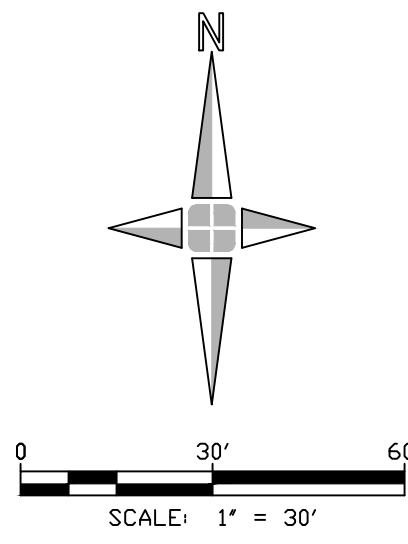
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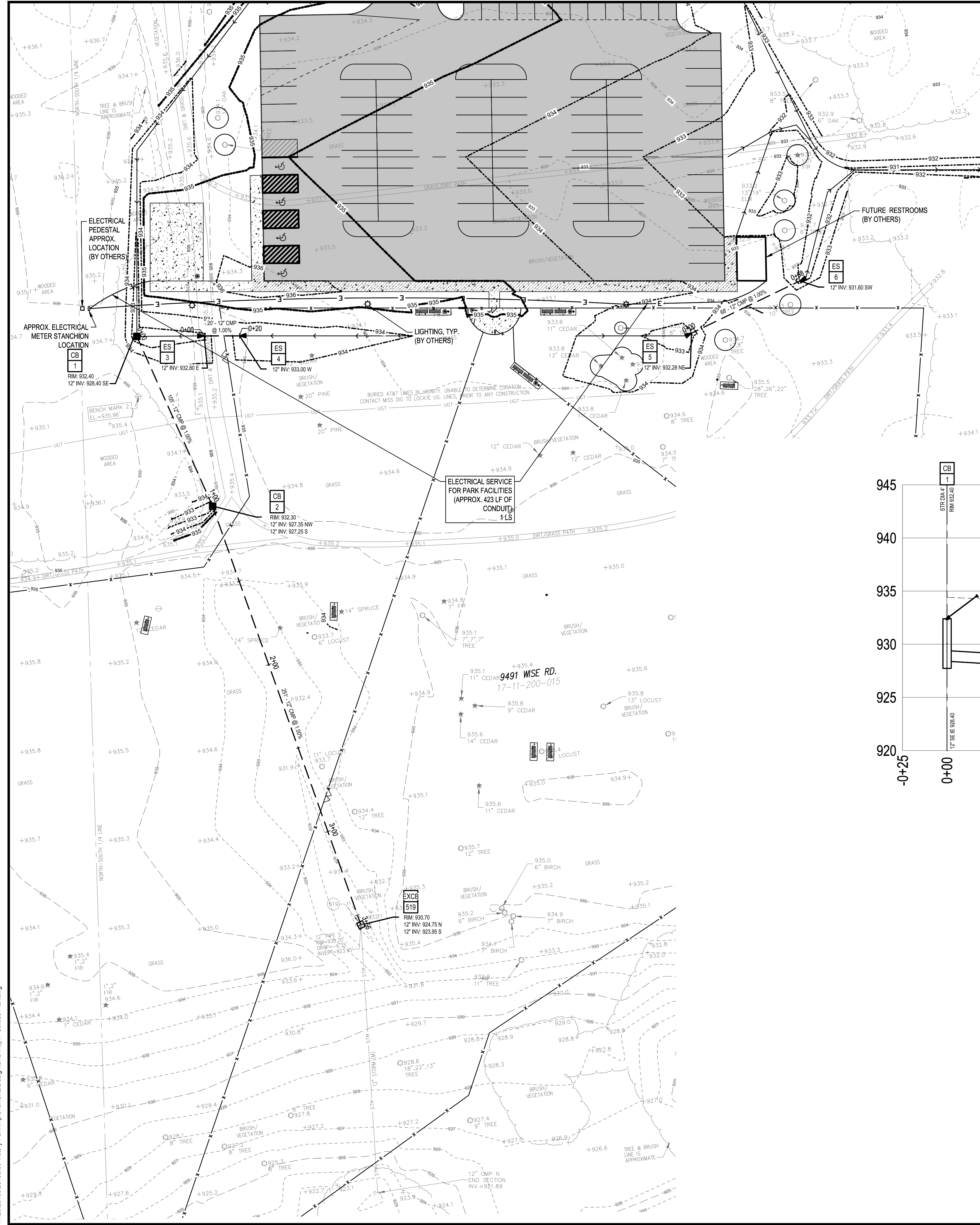
LOCATION MAP
(NOT TO SCALE)

QUANTITIES THIS SHEET

NO.	ITEM DESCRIPTION	QUANTITY
1	12" CMP	39 LF
2	12" CMP END SECTION	2 EA



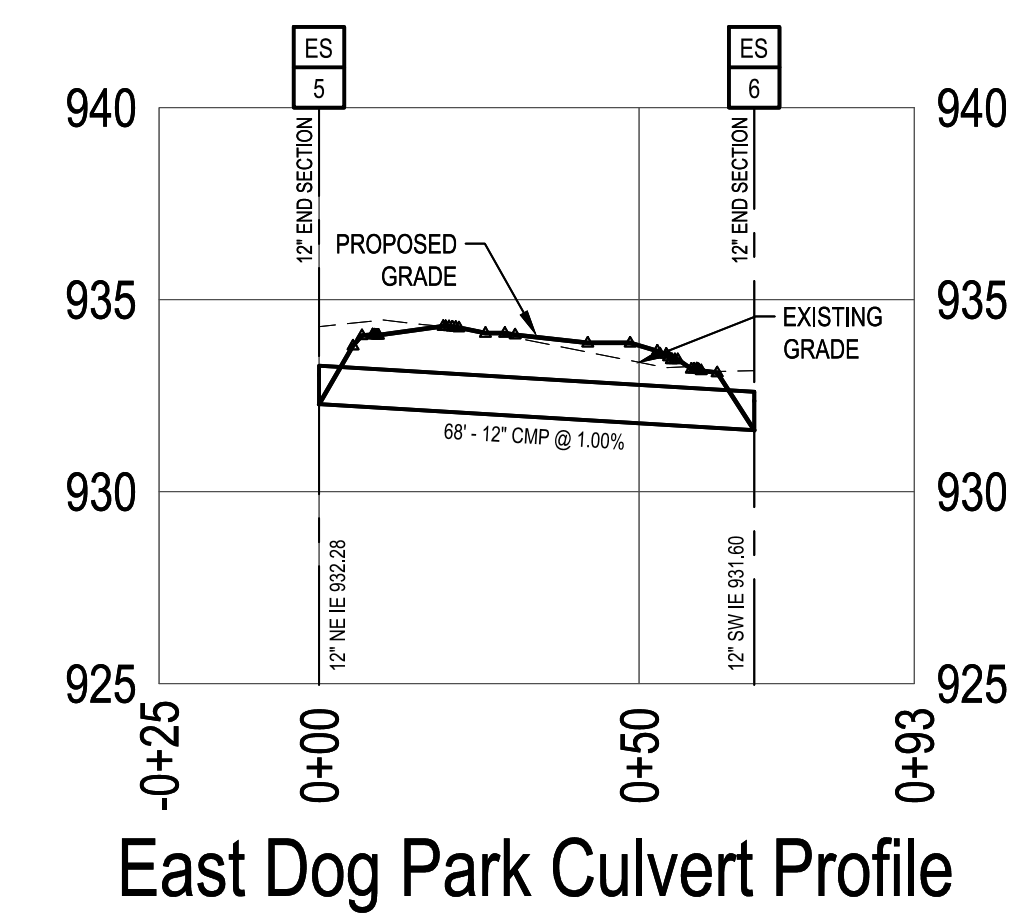
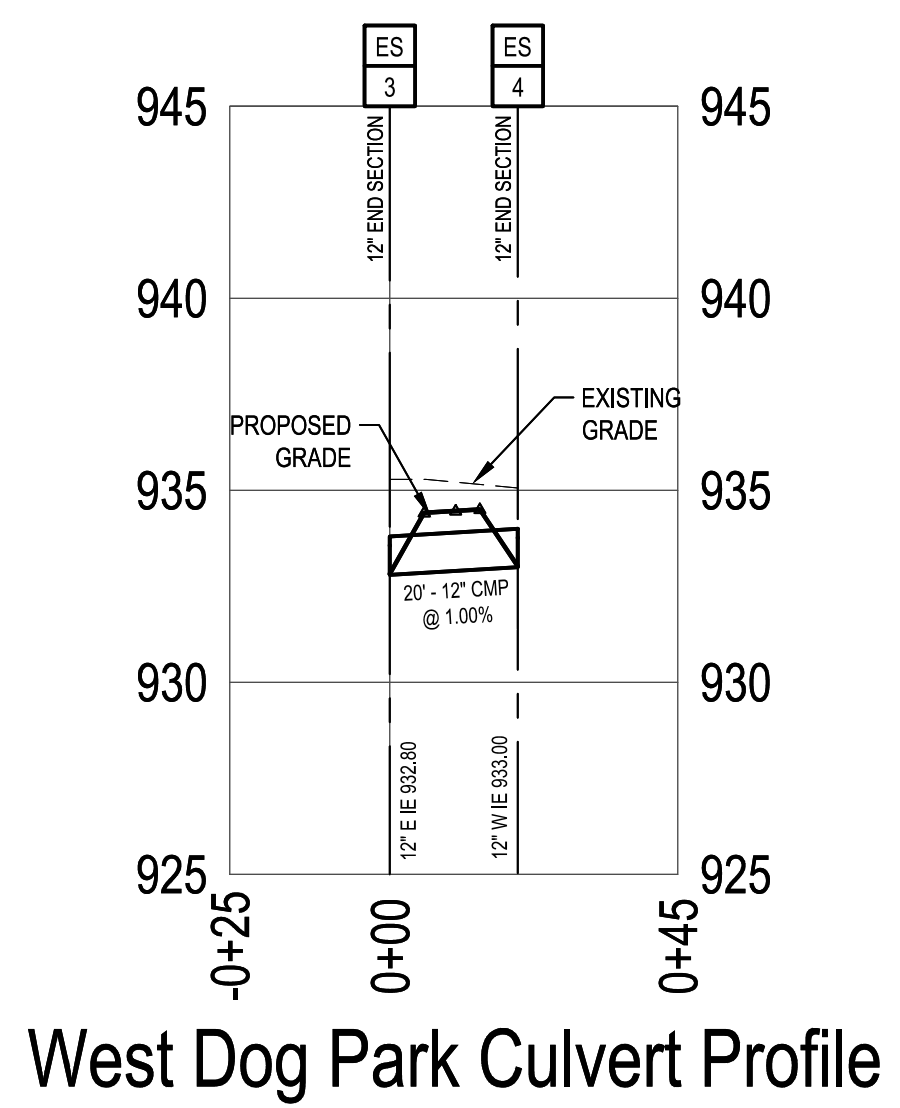
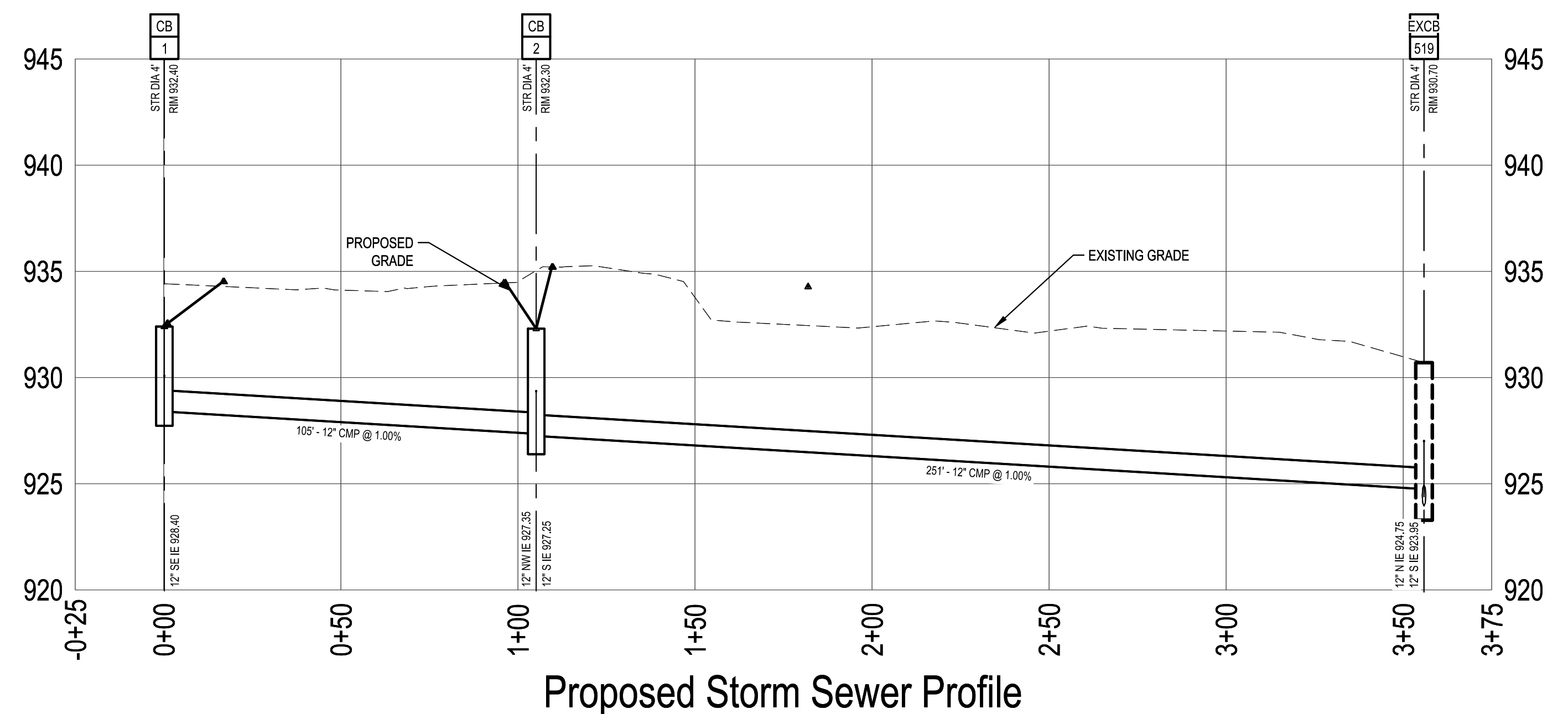
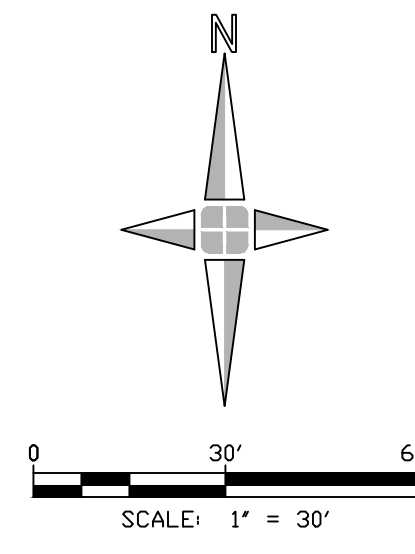
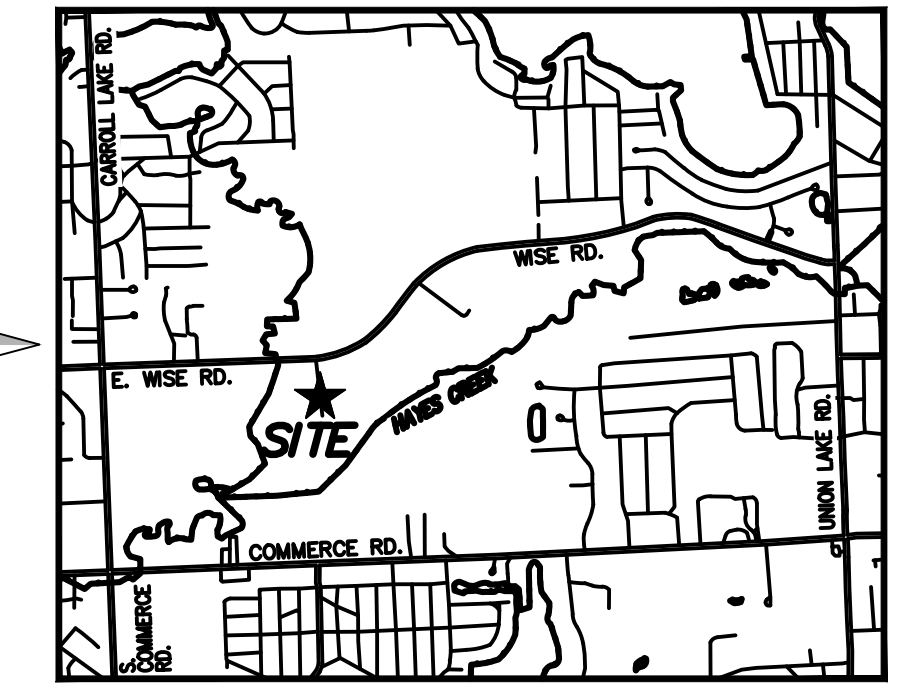
Proposed Approach Culvert Centerline Profile



QUANTITIES THIS SHEET

NO.	ITEM DESCRIPTION	QUANTITY
1	ELECTRICAL SERVICE FOR PARK FACILITIES	1LS
2	12" CMP	444 LF
3	12" CMP END SECTION	2 EA
4	4" DIA. CATCH BASIN	2 EA

NOTE: "ELECTRICAL SERVICE FOR PARK FACILITIES" SHALL INCLUDE A METER STATION AND ALL REQUIRED CONDUIT AND WIRING TO POWER THE FUTURE RESTROOMS AND PAVILION CONTRACTOR TO COORDINATE WITH DTE.



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Section: 11
T-02-N R-08-E



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Developed For:
CHARTER TOWNSHIP OF COMMERCE PARKS & RECREATION DEPARTMENT
1485 OAKLEY PARK ROAD
COMMERCE TOWNSHIP, MI 48390
PH: 248-926-0063

UTILITIES PLAN AND PROFILES - SOUTH

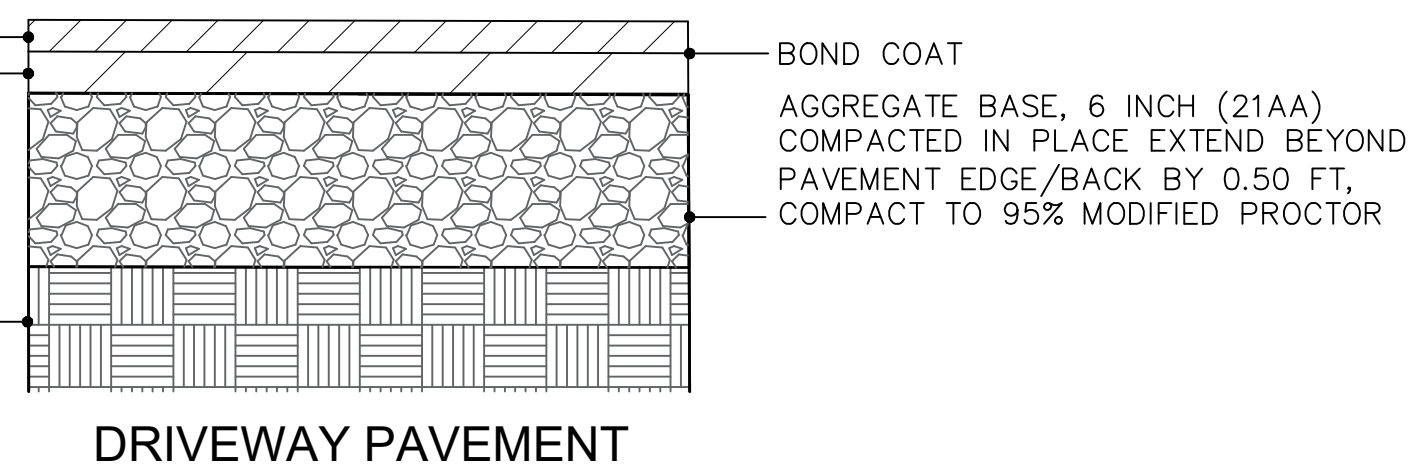
VICTORY PARK IMPROVEMENTS
COMMERCE TOWNSHIP, OAKLAND COUNTY, MICHIGAN

Date: 02-19-2024
Scale: H: 1" = 30'; V: 1" = 5'
Sheet: 17
Project: 20195.00

FOR CONSTRUCTION

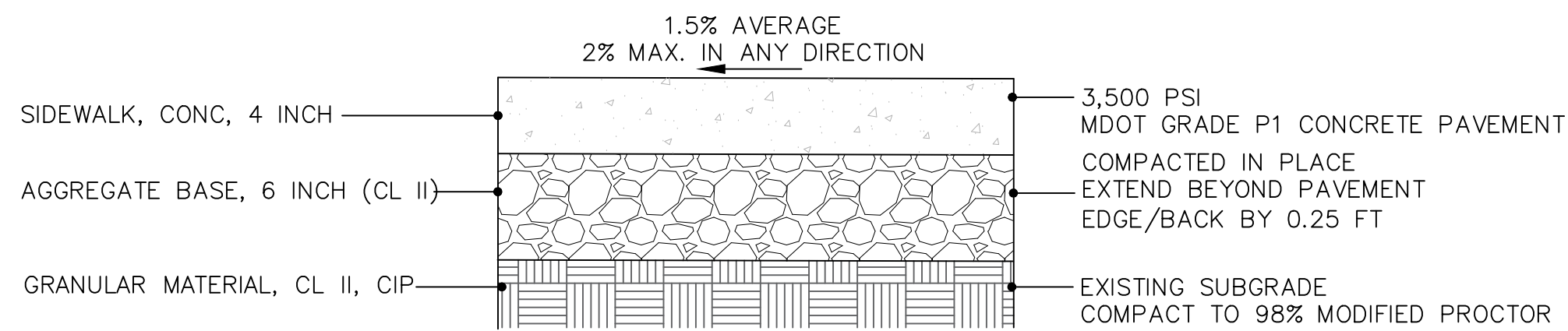
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PAY AS "DRIVEWAY HMA"
 HMA, MDOT 5EML, 1.5 INCH
 HMA, MDOT 4EML, 2 INCH



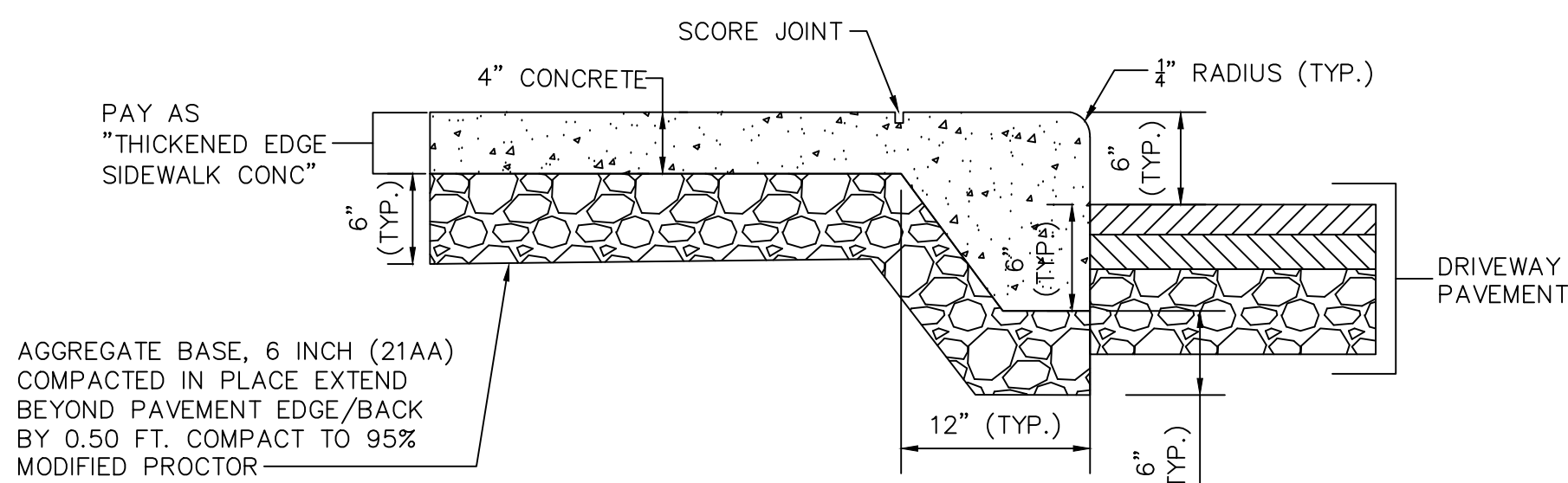
GRANULAR MATERIAL, CL II, CIP
 EXISTING SUBGRADE
 COMPACT TO 95% MODIFIED PROCTOR

DRIVEWAY PAVEMENT



4" SIDEWALK CONCRETE

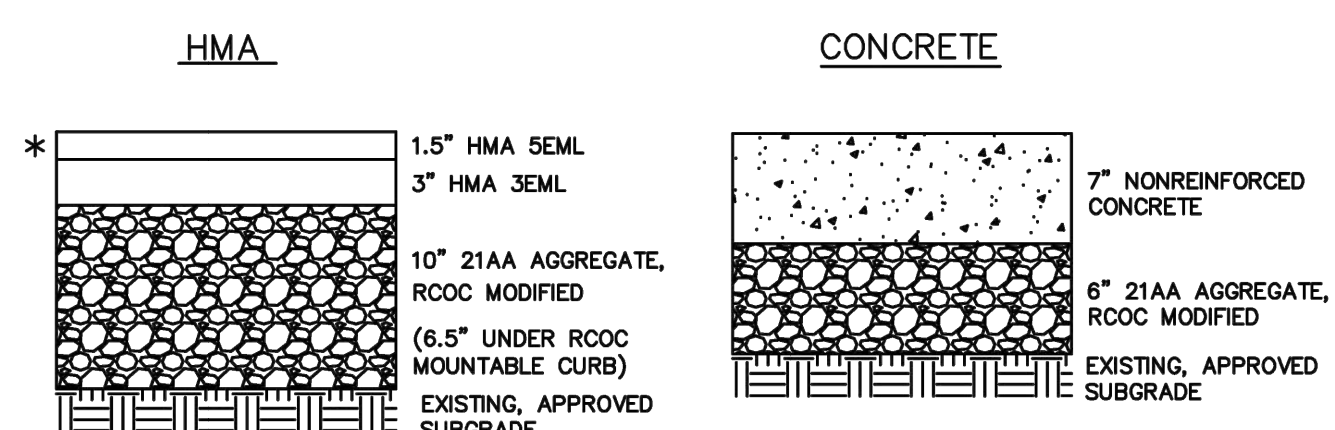
- NOTES:
1. BROOM FINISH CONCRETE SURFACE.
 2. SEE MUNICIPAL DETAILS FOR CONCRETE JOINTING PLAN AND PLACEMENT OF EXPANSION JOINTS.
 3. SAWCUT CONCRETE JOINTS AS SOON AS PAVEMENT CAN SUPPORT MACHINE.



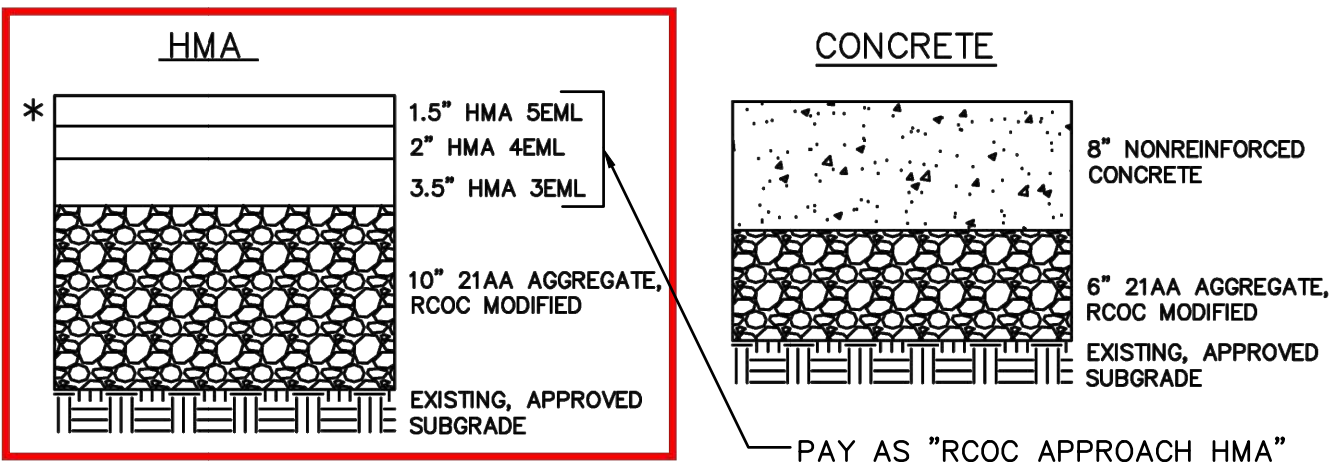
THICKENED EDGE SIDEWALK CROSS SECTION

- NOTES:
1. BROOM FINISH CONCRETE SURFACE.
 2. SEE MUNICIPAL DETAILS FOR CONCRETE JOINTING PLAN AND PLACEMENT OF EXPANSION JOINTS.
 3. SAWCUT CONCRETE JOINTS AS SOON AS PAVEMENT CAN SUPPORT MACHINE.

SINGLE FAMILY RESIDENTIAL SUBDIVISIONS



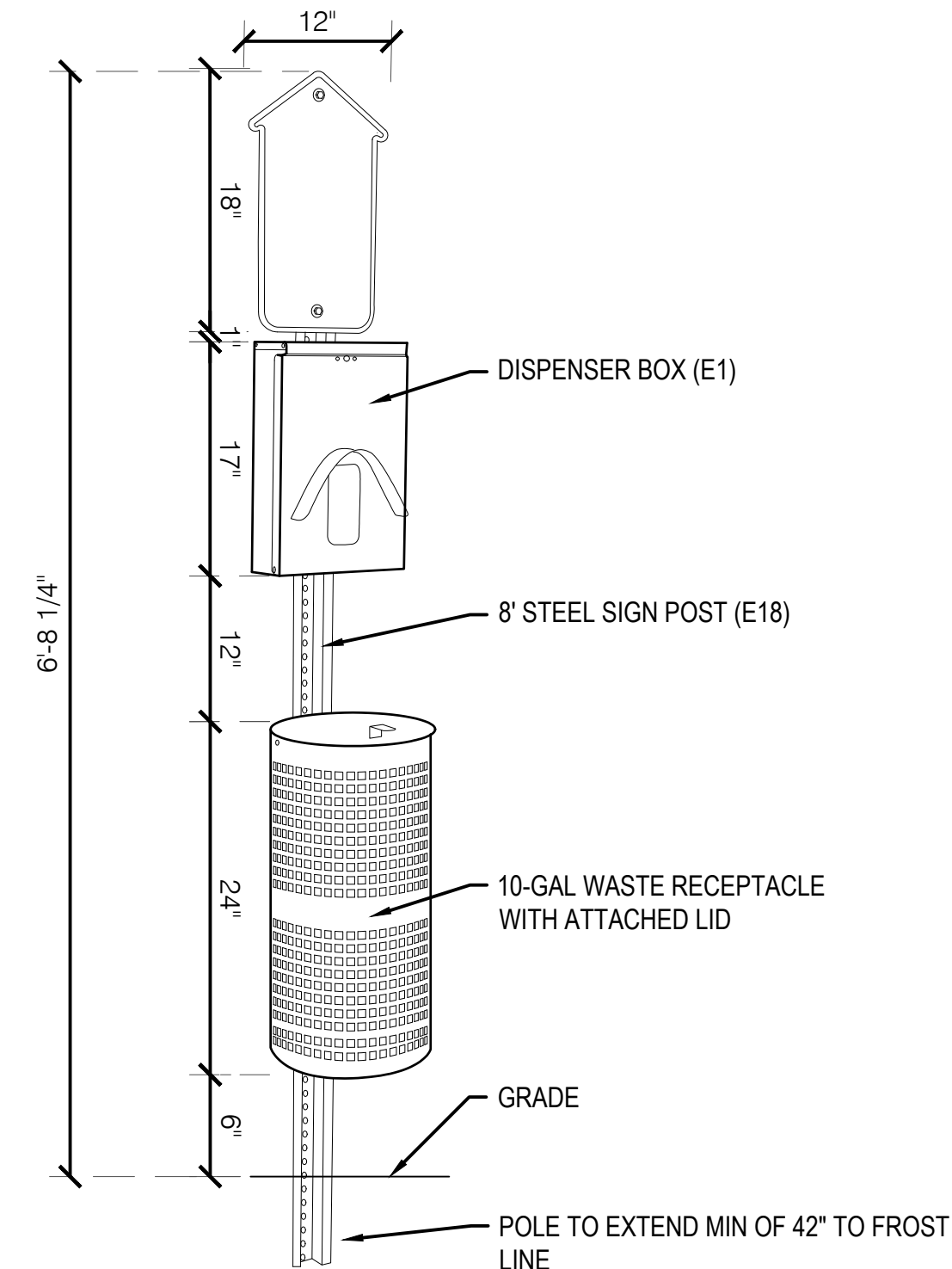
INDUSTRIAL AND COMMERCIAL DEVELOPMENTS
 COLLECTOR STREETS



- * SS - 1H @ 0.10/GAL/SYD. BETWEEN LIFTS
 COMMERCIAL A.D.T. COULD WARRANT A
 DIFFERENT TYPE HMA MIXTURE
- HMA GUIDELINES
- TOP COURSE AWI = 280
 - 5% MIN. A.C. CONTENT
 - TARGET AIR Voids = 3% BASE COURSE
 3.5% LEVELING & TOP COURSE
 - PERFORMANCE GRADE BINDER PG 64-22

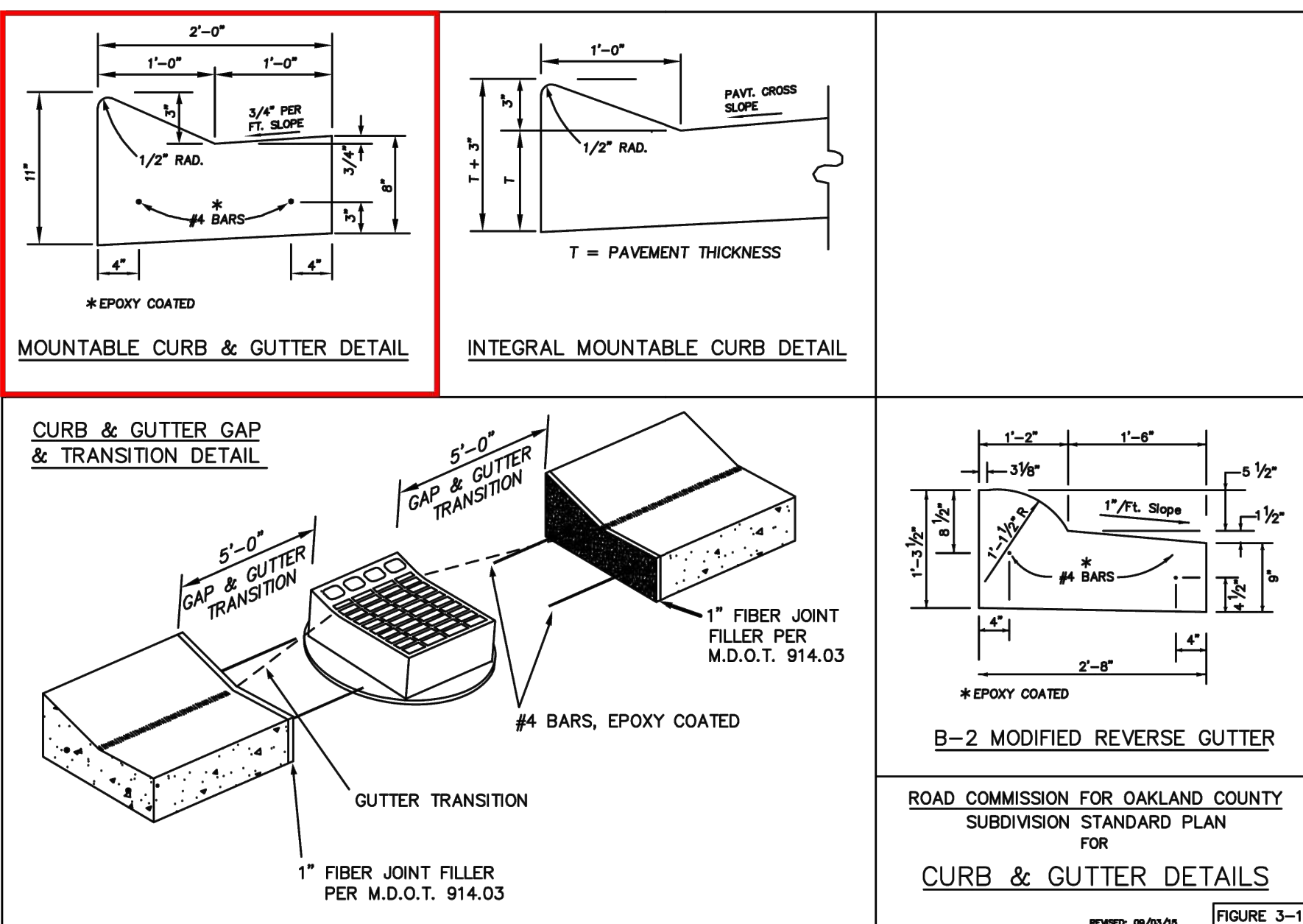
ROAD COMMISSION FOR OAKLAND COUNTY
 SUBDIVISION STANDARD PLAN
 FOR
 STREET PAVEMENT

FIGURE 3-5

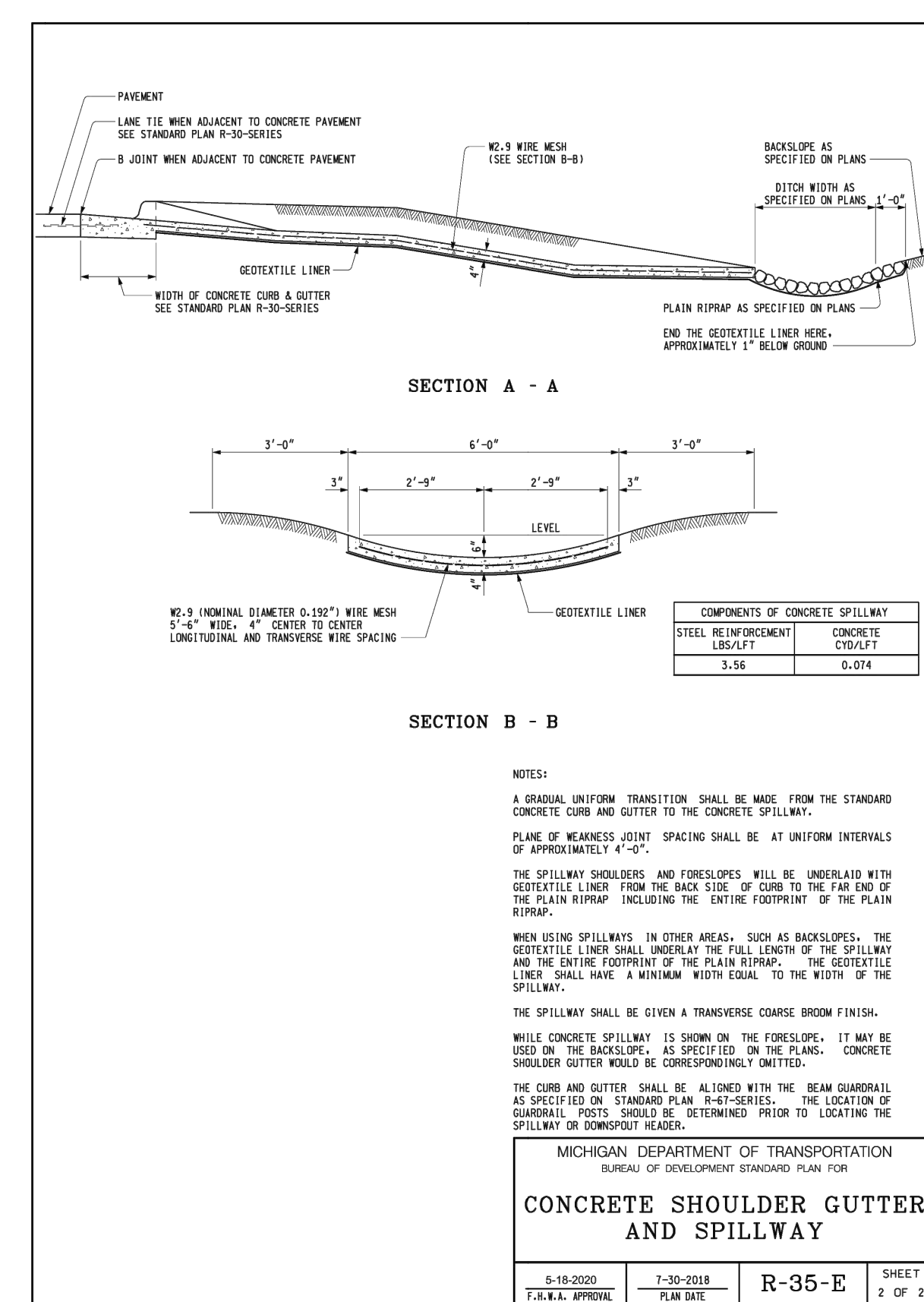
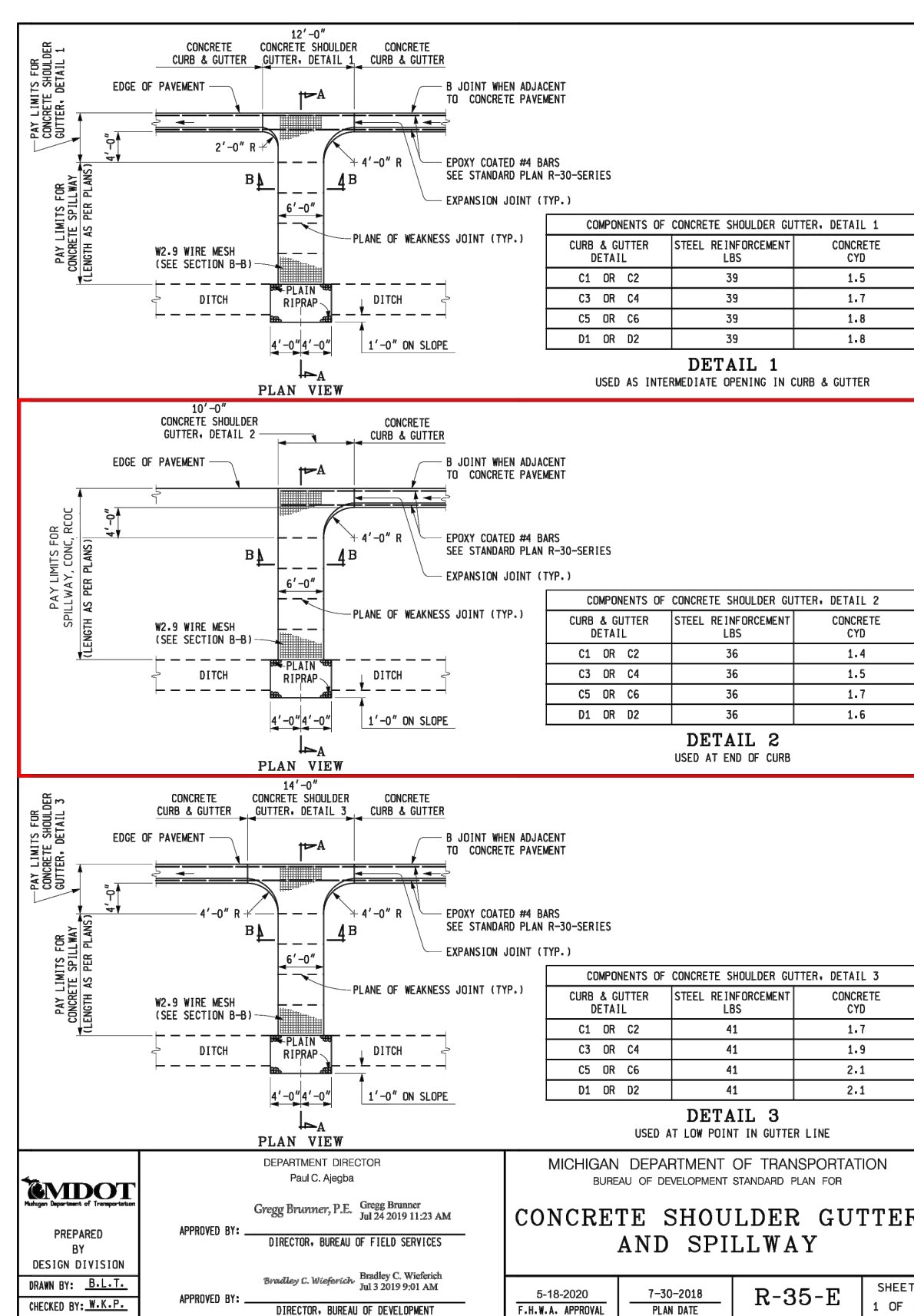


DOG WASTE STATION

NOT TO SCALE



MDOT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF DEVELOPMENT STANDARD PLAN FOR
 CONCRETE SHOULDER GUTTER
 AND SPILLWAY



NOTES:

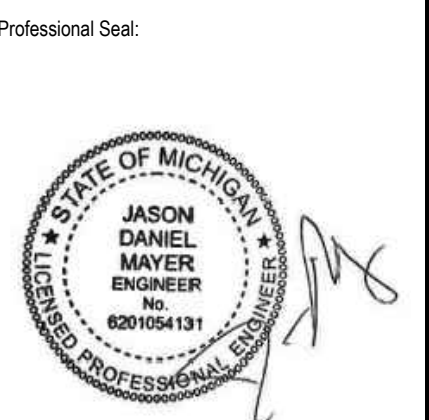
1. A GRADUAL UNIFORM TRANSITION SHALL BE MADE FROM THE STANDARD CONCRETE CURB AND GUTTER TO THE CONCRETE SPILLWAY.
2. PLANE OF WEARNESS JOINT SPACING SHALL BE AT UNIFORM INTERVALS OF APPROXIMATELY 4'-0".
3. THE SPILLWAY SHOULDERS AND FORESLOPES WILL BE UNDERLAIN WITH GEOTEXTILE LINER FROM THE BACK SIDE OF CURB TO THE FAR END OF THE SPILLWAY INCLUDING THE ENTIRE FOOTPRINT OF THE SPILLWAY.
4. WHEN USING SPILLWAYS IN OTHER AREAS, SUCH AS BACKSLOPES, THE GEOTEXTILE LINER SHALL UNDERLAY THE FULL LENGTH OF THE SPILLWAY AND THE ENTIRE FOOTPRINT OF THE SPILLWAY. THE GEOTEXTILE LINER SHALL HAVE A MINIMUM WIDTH EQUAL TO THE WIDTH OF THE SPILLWAY.
5. THE SPILLWAY SHALL BE GIVEN A TRANSVERSE COARSE BROOM FINISH. WHILE CONCRETE SPILLWAY IS SHOWN ON THE FORESLOPE, IT MAY BE USED ON THE BACKSLOPE, AS SPECIFIED ON THE PLANS. CONCRETE SHOULDER GUTTER WOULD BE CORRESPONDINGLY OMITTED.
6. THE CURB AND GUTTER SHALL BE ALIGNED WITH THE BEAM GUIDEWALLS AS SPECIFIED ON STANDARD PLAN R-35-SERIES. THE LOCATION OF GUIDEWALL POSTS SHOULD BE DETERMINED PRIOR TO LOCATING THE SPILLWAY OR CONDUIT HEADS.

MICHIGAN DEPARTMENT OF TRANSPORTATION
 BUREAU OF DEVELOPMENT STANDARD PLAN FOR
 CONCRETE SHOULDER GUTTER
 AND SPILLWAY

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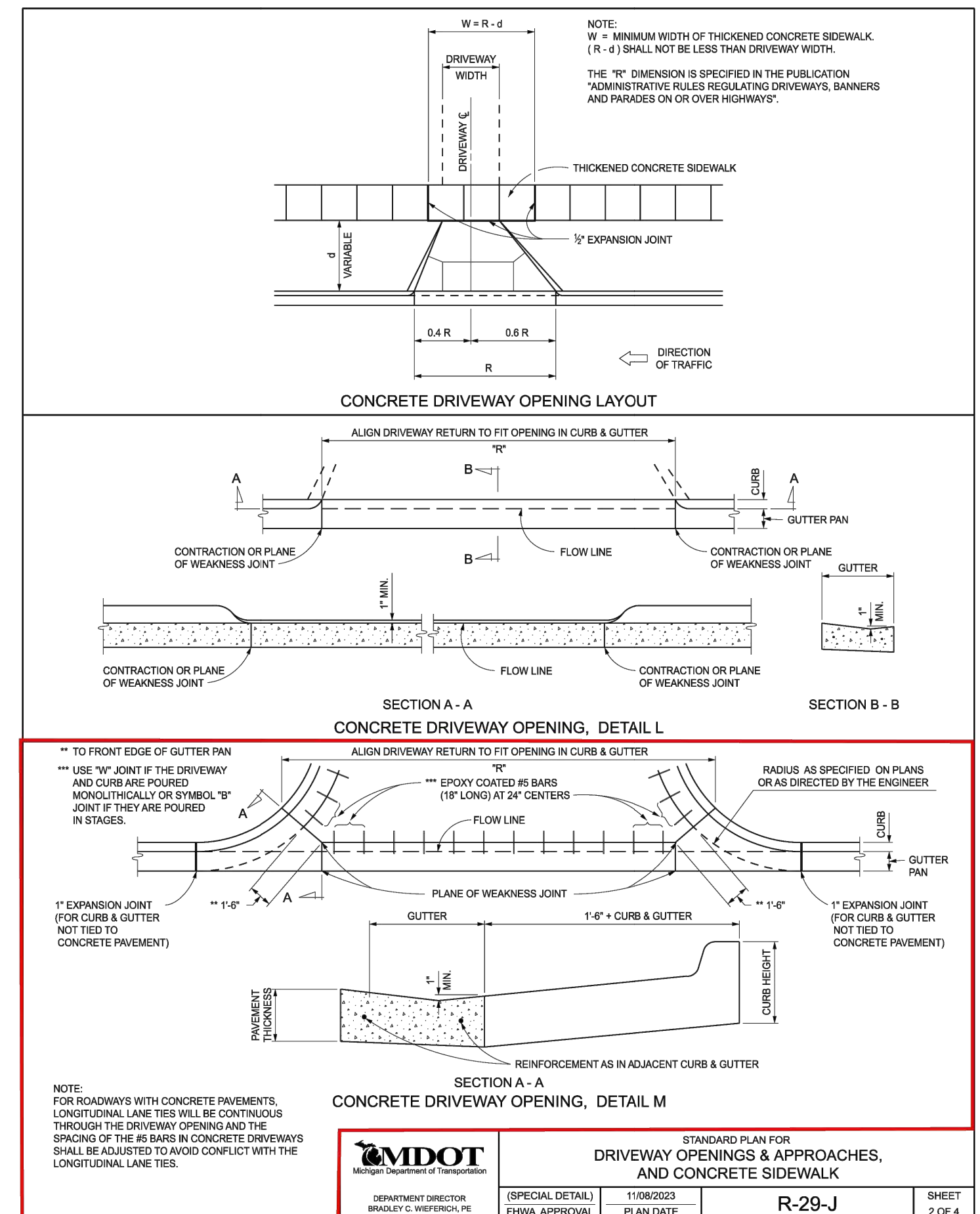
DETAILS
 (1 OF 2)

VICTORY PARK
 IMPROVEMENTS

COMMERCE TOWNSHIP,
 OAKLAND COUNTY,
 MICHIGAN

Date: 02-19-2024
 Scale: AS NOTED
 Sheet: 18
 Project: 20195.00

MDOT
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF DEVELOPMENT STANDARD PLAN FOR
 DRIVEWAY OPENINGS & APPROACHES,
 AND CONCRETE SIDEWALK



FOR CONSTRUCTION

