

COUNTY MAPBOOK 2012 LEGEND

IH, BI	Airport
US, BU, UA, UP	Airport
SH, BS	Airport Runway
SL, SS, PR	Cemetery
1889 FM, BF, RM, RR, RE, RS, PA	Campground
Tollroad	Park or Protected Land
County Road	School
City Street or other Non-County Maintained Road	Military Installation
Railroad	Prison
County Line	Incorporated City
River	
Flowing Stream	
Intermittent Stream	
Canal	
Gulf Intracoastal Waterway	
Body of Water	Unincorporated Community
Dam	

REFERENCE(S)
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION, COUNTY MAPBOOK 2012, PAGES 496 AND 497; DELIVERED IN PDF <http://www.dot.state.tx.us>

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0	2021-02	ISSUED FOR PERMITTING PURPOSES	PRM	TNB	JBF	CGD
REV	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL

2/12/21

GOLDER ASSOCIATES INC
 TEXAS REGISTRATION F-2578

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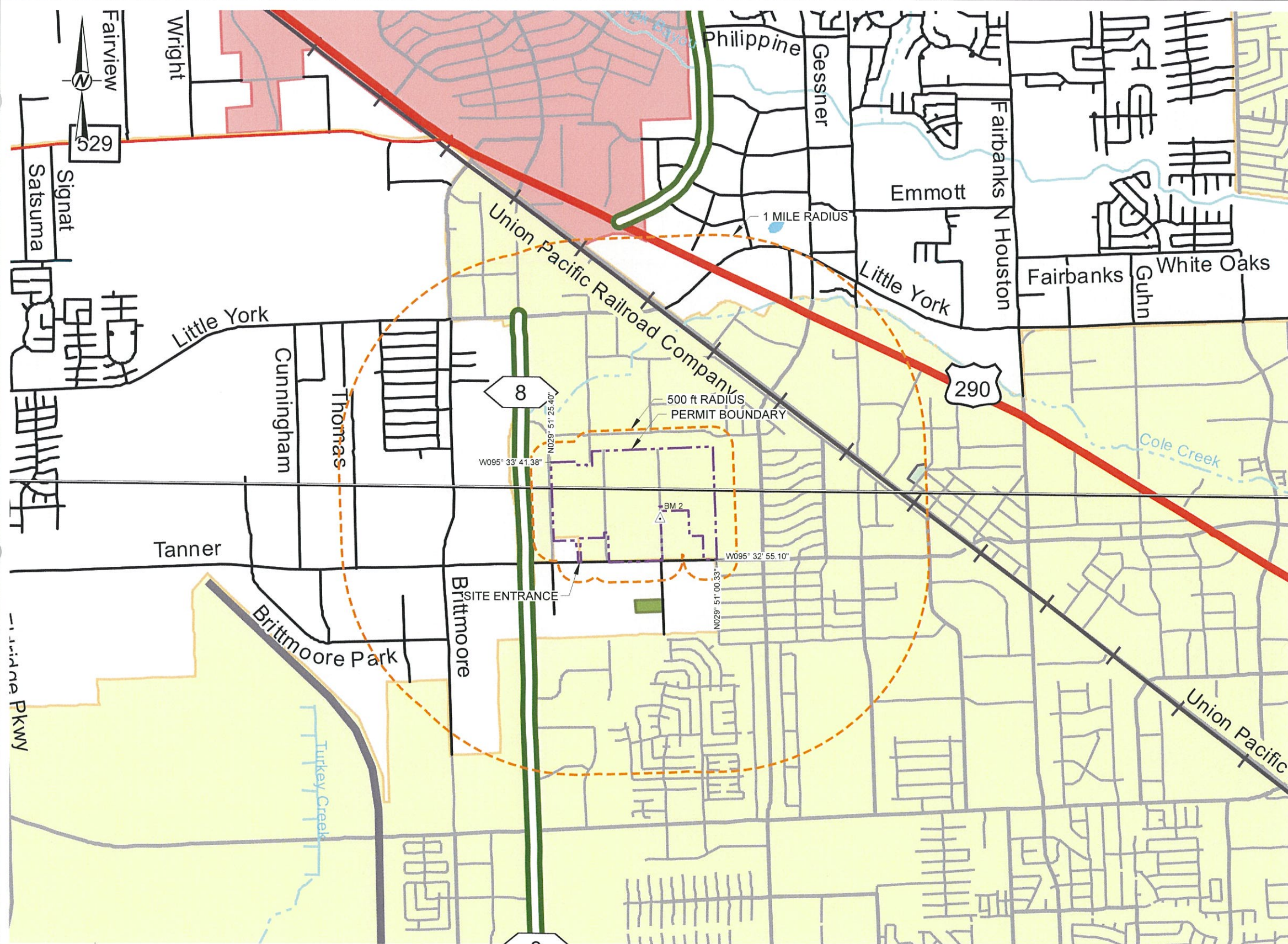
PROJECT

**HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
 PERMIT AMENDMENT APPLICATION
 TCEQ PERMIT NO. MSW-2185A**

TITLE

GENERAL LOCATION MAP

PROJECT NO	APPLICATION SECTION	REV	1 of 25	FIGURE
1894269	II	0		II-1



COUNTY MAPBOOK 2012 LEGEND

- IH, BI
- US, BU, UA, UP
- SH, BS
- SL, SS, PR
- FM, BF, RM, RR, RE, RS, PA
- Tollroad
- County Road
- City Street or other Non-County Maintained Road
- Railroad
- County Line
- Flowing Stream
- Intermittent Stream
- Canal
- Gulf Intracoastal Waterway
- Body of Water
- Dam
- Airport
- Airport Runway
- Cemetery
- Campground
- Park or Protected Land
- School
- Military Installation
- Prison
- Incorporated City
- Unincorporated Community

LEGEND

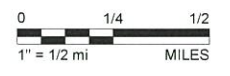
- PERMIT BOUNDARY
- SITE BENCHMARK

NOTE(S)
 1. THE LOCATION OF OIL AND GAS AND WATER WELLS IS SHOWN IN PART II ON FIGURE II-10.

REFERENCE(S)
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION, COUNTY MAPBOOK 2012, PAGES 496 AND 497; DELIVERED IN PDF <http://www.dot.state.tx.us>

SITE BENCHMARK - BM 2	
SITE COORDINATE SYSTEM	
N	750,430.42
E	3,092,522.21
ELEV.	103.87
NAD 83 (TSC)	
N	13,873,869.83
E	3,060,925.56
ELEV.	99.91 (NAVD 88)
LATITUDE:	N 29°51'11.506"
LONGITUDE:	W 95°33'11.712"
ELEV.	99.29
(NAVD88 GEOID12B)	

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HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
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TITLE

SITE LOCATION MAP

PROJECT NO	APPLICATION SECTION	REV.	2 of 25	FIGURE
1894269	II	0		II-2

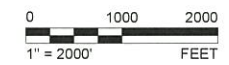
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1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

REFERENCE(S)
 BASE MAP TAKEN FROM DALLAS AERIAL SURVEY AERIAL FLYOVER DATED 2019.



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PROJECT
 HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
 PERMIT AMENDMENT APPLICATION
 TCEQ PERMIT NO. MSW-2185A

TITLE
AERIAL PHOTOGRAPH

PROJECT NO. 1894269 APPLICATION SECTION II REV. 0 3 of 25 FIGURE II-3

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/B



LEGEND

- PERMIT BOUNDARY
- PROPERTY BOUNDARY
- LIMITS OF WASTE PLACEMENT (MSW-2185A)
- WASTE FOOTPRINT (PRIOR TO MSW-2185A)
- EXISTING GROUND 25 ft CONTOURS
- EXISTING GROUND 5 ft CONTOURS
- X PROPOSED FENCE
- x EXISTING FENCE
- E EASEMENT (TO BE ABANDONED)
- ⊕ EXISTING MONITORING WELL
- ⊙ EXISTING GAS PROBE
- ① CONCRETE RECYCLING FACILITY - CHERRY CRUSHED CONCRETE, INC.
- ② COMPOST FACILITY - LIVING EARTH TECHNOLOGY CO. (LETCO)

NOTE(S)

1. LANDFILL CELLS ARE PERMITTED FOR DISPOSAL OF MUNICIPAL SOLID WASTE CONSISTING OF CONSTRUCTION/DEMOLITION DEBRIS, BRUSH, NON-PUTRESIBLE RUBBISH WASTES THAT ARE FREE FROM OTHER TYPES OF SOLID WASTE, AND CERTAIN CLASS III INDUSTRIAL SOLID WASTES THAT ARE PROPERLY IDENTIFIED AND ARE INERT AND ESSENTIALLY INSOLUBLE.

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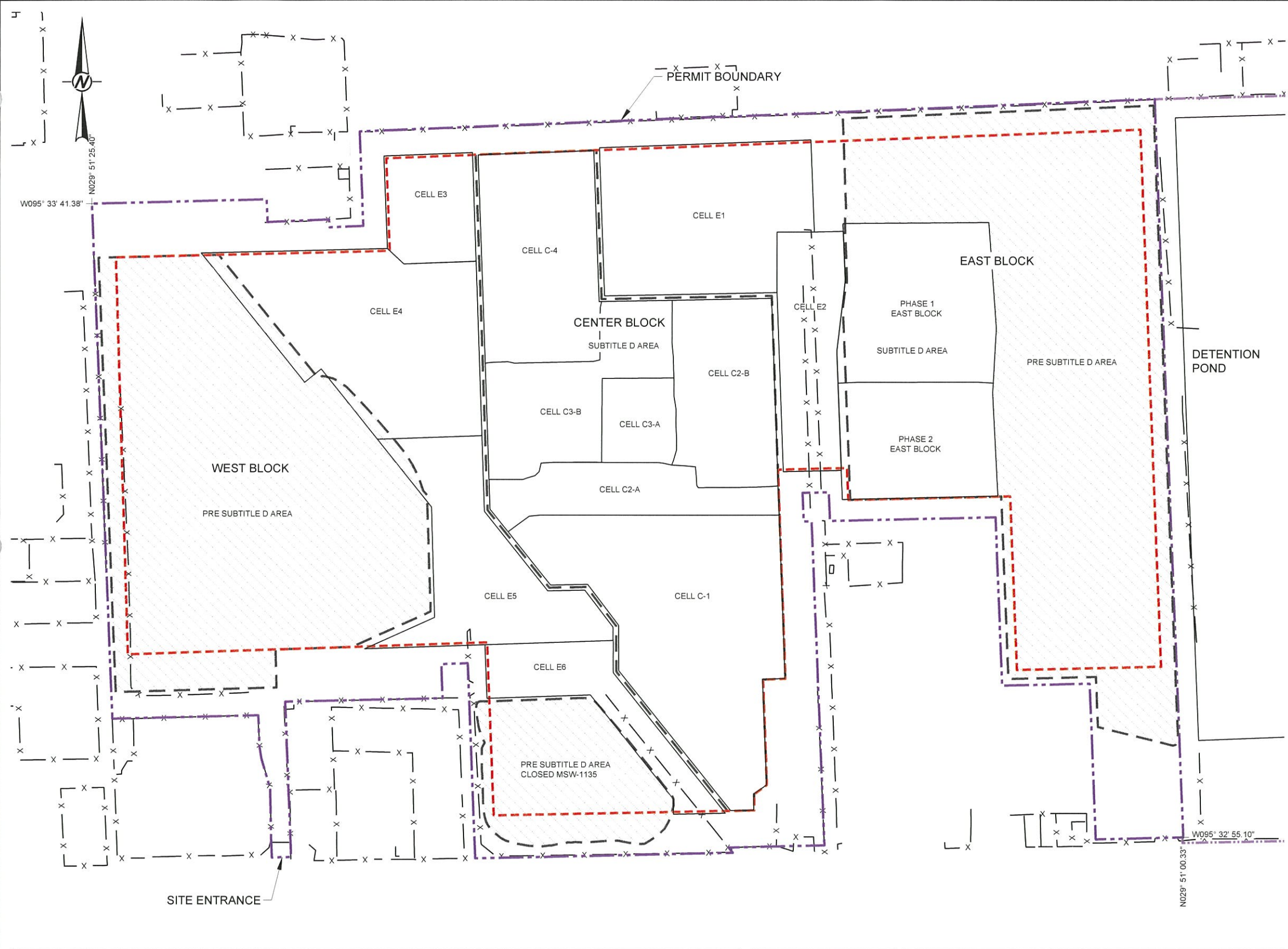
PROJECT
**HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
PERMIT AMENDMENT APPLICATION
TCEQ PERMIT NO. MSW-2185A**

TITLE
SITE LAYOUT PLAN

PROJECT NO 1894269	APPLICATION SECTION II	REV. 0	4 of 25	FIGURE II-4
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1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B



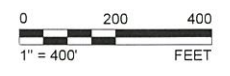
LEGEND

- PERMIT BOUNDARY
- LIMITS OF WASTE PLACEMENT (MSW-2185A)
- WASTE FOOTPRINT (PRIOR TO MSW-2185A)
- CELL DIVISION
- FENCE
- SUBTITLE D AREA
- PRE SUBTITLE D AREA

- NOTE(S)**
- ALL SECTORS OF THE WEST BLOCK, CENTER BLOCK, AND EAST BLOCK ARE ALREADY CONSTRUCTED AND FILLING IS IN PROGRESS. THE LIMITS OF MSW-1135 IS CONSTRUCTED AND CLOSED. THE EXPANSION AREA DEVELOPMENT (EXCAVATION, LINING, FILLING) AND VERTICAL EXPANSION OF THE EXISTING LANDFILL SECTORS WILL BE IN ORDER OF THE OPERATIONAL SEQUENCE PHASE DRAWINGS (FIGURES II-7.1 TO II-7.5). SECTORS MAY BE FURTHER SUBDIVIDED AT THE FACILITY'S DISCRETION.
 - ALL SECTORS WILL HAVE THE SAME TYPES OF WASTE DISPOSED IN THEM, OF THE TYPES ALLOWED FOR A TYPE IV LANDFILL FACILITY AND AS INDICATED IN THE PERMIT MSW-2185A.
 - LINER SYSTEM DETAILS ARE PRESENTED IN PART III, ATTACHMENT 3.

CELL DIMENSIONS		
CELL	MAXIMUM WIDTH (ft)	MAXIMUM LENGTH (ft)
C-1	1032	1124
C2-A	1097	200
C2-B	382	717
C3-A	282	321
C3-B	715	448
C-4	440	799
E1	804	571
E2	255	909
E3	335	413
E4	1042	663
E5	945	795
E6	487	784
PHASE 1	602	606
PHASE 2	588	444

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PROJECT
HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
PERMIT AMENDMENT APPLICATION
TCEQ PERMIT NO. MSW-2185A

TITLE
CELL LAYOUT PLAN

PROJECT NO. 1894269	APPLICATION SECTION II	REV. 0	5 of 25	FIGURE II-5
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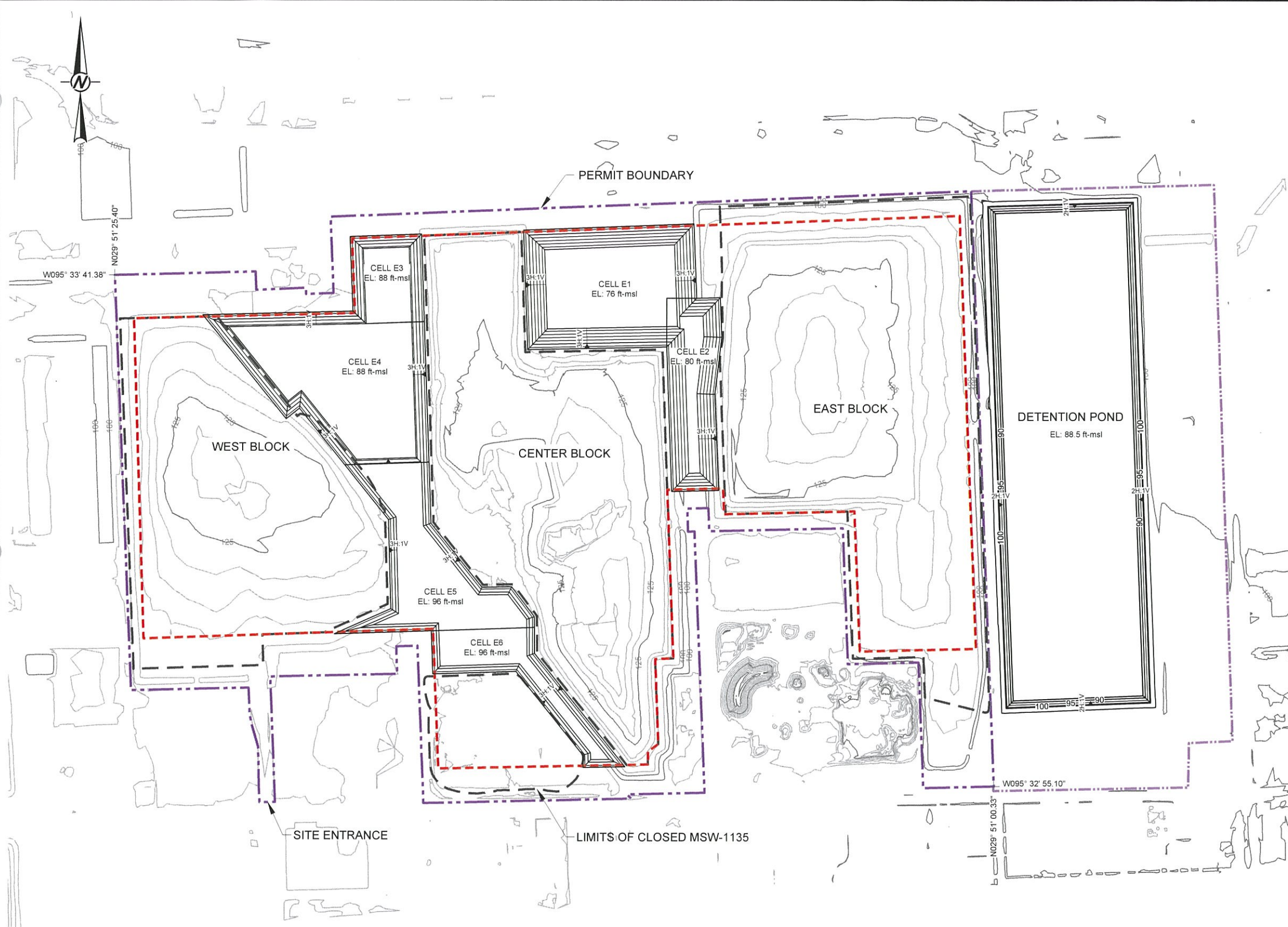
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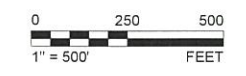
LEGEND

	PERMIT BOUNDARY
	PROPERTY BOUNDARY
	LIMITS OF WASTE PLACEMENT (MSW-2185A)
	WASTE FOOTPRINT (PRIOR TO MSW-2185A)
	EXCAVATION CONTOURS 25 ft CONTOURS
	EXCAVATION CONTOURS 5 ft CONTOURS
	EXISTING GRADES CONTOURS 25 ft CONTOURS
	EXISTING GRADES CONTOURS 5 ft CONTOURS

- NOTE(S)**
- EXISTING TOPOGRAPHY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPH DATED MARCH 6, 2019.
 - EXCAVATION GRADES (BOTTOM OF SOIL LINER) FOR THE PROPOSED EXPANSION AREA SHOWN ON THIS SHEET.
 - GENERALIZED DETAILS FOR THE FLOOR AND SIDEWALL LINER SYSTEMS ARE SHOWN ON FIGURE III-3-5.



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PROJECT

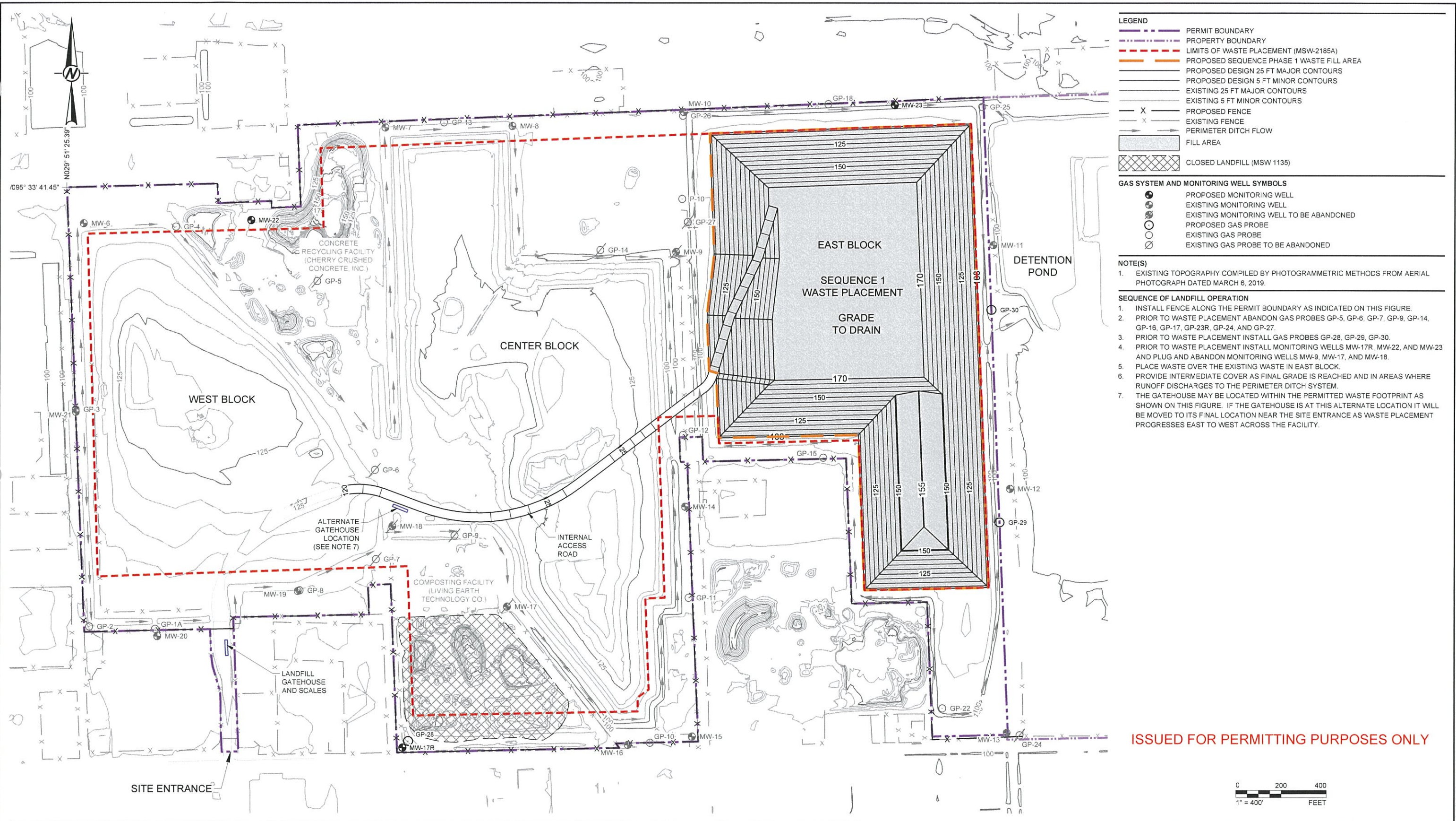
**HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
PERMIT AMENDMENT APPLICATION
TCEQ PERMIT NO. MSW-2185A**

TITLE

EXCAVATION GRADES

PROJECT NO.	APPLICATION SECTION	REV.	6 of 25	FIGURE
1894269	II	0		II-6

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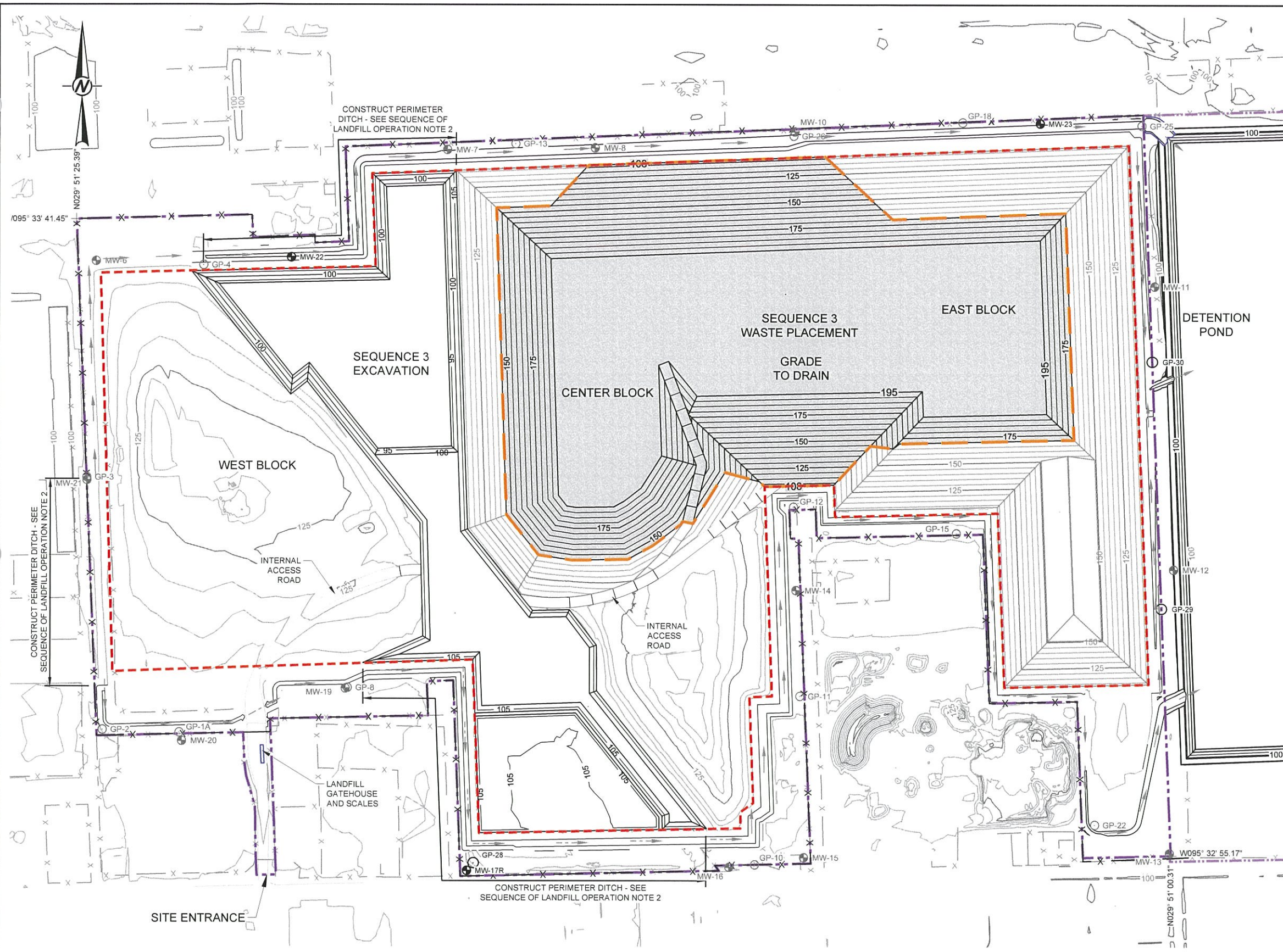
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PROJECT
 HAWTHORN PARK RECYCLING & DISPOSAL FACILITY
 PERMIT AMENDMENT APPLICATION
 TCEQ PERMIT NO. MSW-2185A
 TITLE
OPERATIONAL SEQUENCE PHASE 1
 PROJECT NO. 1894269 APPLICATION SECTION II REV 0 7 of 25 FIGURE II-7.1

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN RECORDED FROM ANSB



- LEGEND**
- PERMIT BOUNDARY
 - PROPERTY BOUNDARY
 - LIMITS OF WASTE PLACEMENT (MSW-2185A)
 - PROPOSED SEQUENCE PHASE 3 WASTE FILL AREA
 - PROPOSED DESIGN 25 FT MAJOR CONTOURS
 - PROPOSED DESIGN 5 FT MINOR CONTOURS
 - EXISTING 25 FT MAJOR CONTOURS
 - EXISTING 5 FT MINOR CONTOURS
 - PROPOSED FENCE
 - EXISTING FENCE
 - PERIMETER DITCH FLOW
 - FILL AREA
 - CLOSED LANDFILL (MSW 1135)
- GAS SYSTEM AND MONITORING WELL SYMBOLS**
- PROPOSED MONITORING WELL
 - EXISTING MONITORING WELL
 - PROPOSED GAS PROBE
 - EXISTING GAS PROBE

- NOTE(S)**
1. EXISTING TOPOGRAPHY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPH DATED MARCH 6, 2019.
- SEQUENCE OF LANDFILL OPERATION**
1. PLACE WASTE IN EXPANSION AREA CELLS BETWEEN CENTER BLOCK AND EAST BLOCK AND ABOVE GRADE AS SHOWN IN THIS FIGURE.
 2. CONSTRUCT PERIMETER CHANNELS IN ACCORDANCE WITH THE DESIGN IN PART III, ATTACHMENT 2, FIGURE III-2-4 AND CULVERT CROSSING AT THE SITE ENTRANCE AS SHOWN ON FIGURE III-2-10.
 3. CONSTRUCT THE OFF-SITE DETENTION POND IN ACCORDANCE WITH THE DESIGN IN PART III, ATTACHMENT 2, FIGURE III-2-3.
 4. PROVIDE INTERMEDIATE COVER AS FINAL GRADE IS REACHED AND IN AREAS WHERE RUNOFF DISCHARGES TO THE PERIMETER DITCH SYSTEM.
 5. EXCAVATE EXPANSION AREA CELLS BETWEEN CENTER BLOCK AND WEST BLOCK.

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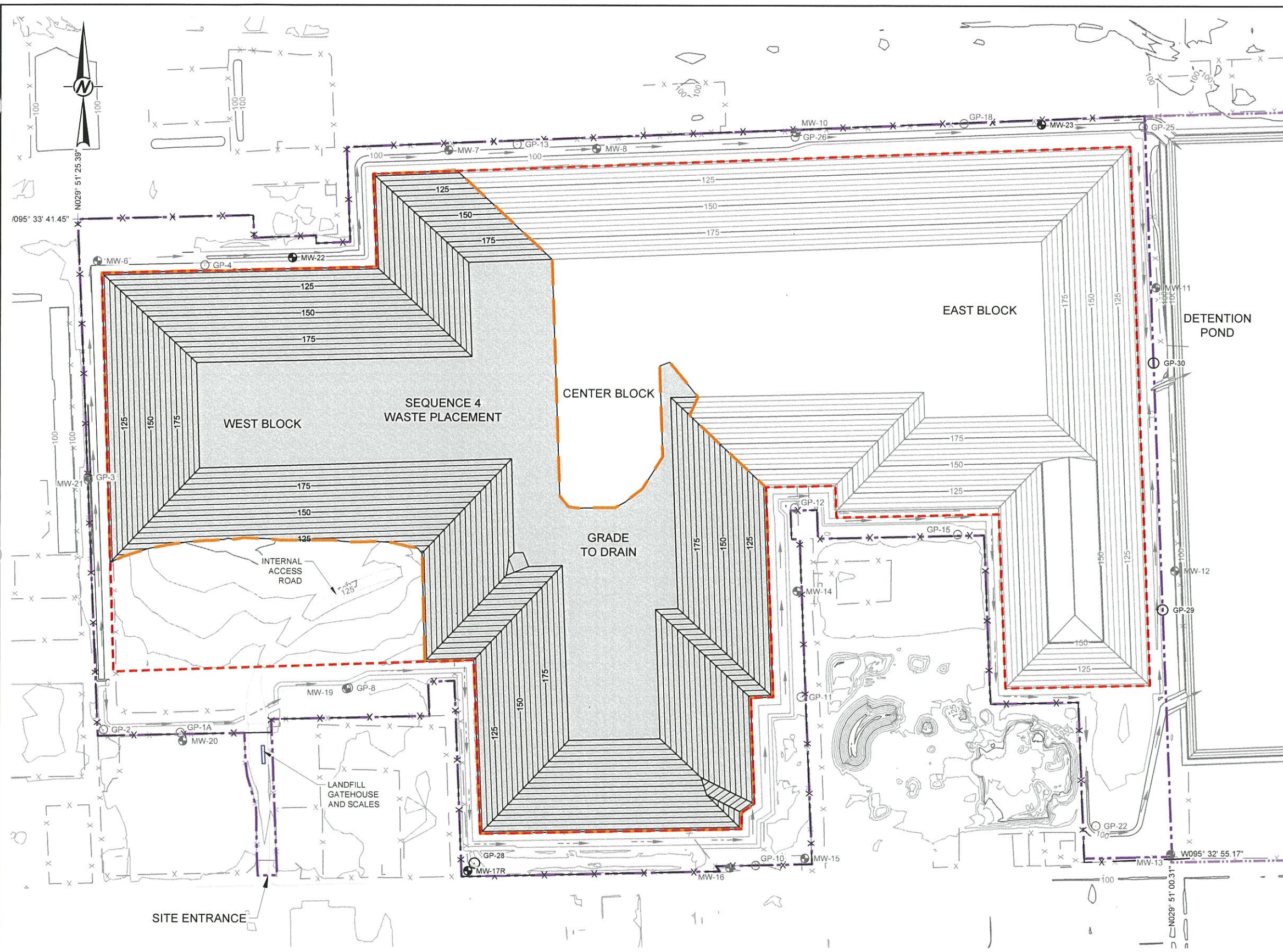
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PROJECT	HAWTHORN PARK RECYCLING & DISPOSAL FACILITY PERMIT AMENDMENT APPLICATION TCEQ PERMIT NO. MSW-2185A	TITLE	OPERATIONAL SEQUENCE PHASE 3
PROJECT NO	APPLICATION SECTION	REV.	9 of 25
1894269	II	0	FIGURE II-7.3

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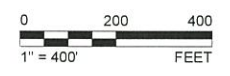
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- LEGEND**
- PERMIT BOUNDARY
 - PROPERTY BOUNDARY
 - LIMITS OF WASTE PLACEMENT (MSW-2185A)
 - PROPOSED SEQUENCE PHASE 4 WASTE FILL AREA
 - PROPOSED DESIGN 5 FT MAJOR CONTOURS
 - PROPOSED DESIGN 5 FT MINOR CONTOURS
 - EXISTING 25 FT MAJOR CONTOURS
 - EXISTING 5 FT MINOR CONTOURS
 - PROPOSED FENCE
 - EXISTING FENCE
 - PERIMETER DITCH FLOW
 - FILL AREA
 - CLOSED LANDFILL (MSW 1135)
- GAS SYSTEM AND MONITORING WELL SYMBOLS**
- PROPOSED MONITORING WELL
 - EXISTING MONITORING WELL
 - PROPOSED GAS PROBE
 - EXISTING GAS PROBE

- NOTE(S)**
1. EXISTING TOPOGRAPHY COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPH DATED MARCH 6, 2019.
- SEQUENCE OF LANDFILL OPERATION**
1. PLACE WASTE IN EXPANSION AREA CELLS BETWEEN CENTER BLOCK AND WEST BLOCK AND ABOVE GRADE AS SHOWN IN THIS FIGURE.
 2. PROVIDE INTERMEDIATE COVER AS FINAL GRADE IS REACHED AND IN AREAS WHERE RUNOFF DISCHARGES TO THE PERIMETER DITCH SYSTEM.

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PROJECT

HAWTHORN PARK RECYCLING & DISPOSAL FACILITY

PERMIT AMENDMENT APPLICATION

TCEQ PERMIT NO. MSW-2185A

TITLE

OPERATIONAL SEQUENCE PHASE 4

PROJECT NO	APPLICATION SECTION	REV.	10 of 25	FIGURE
1894269	II	0		II-7.4

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