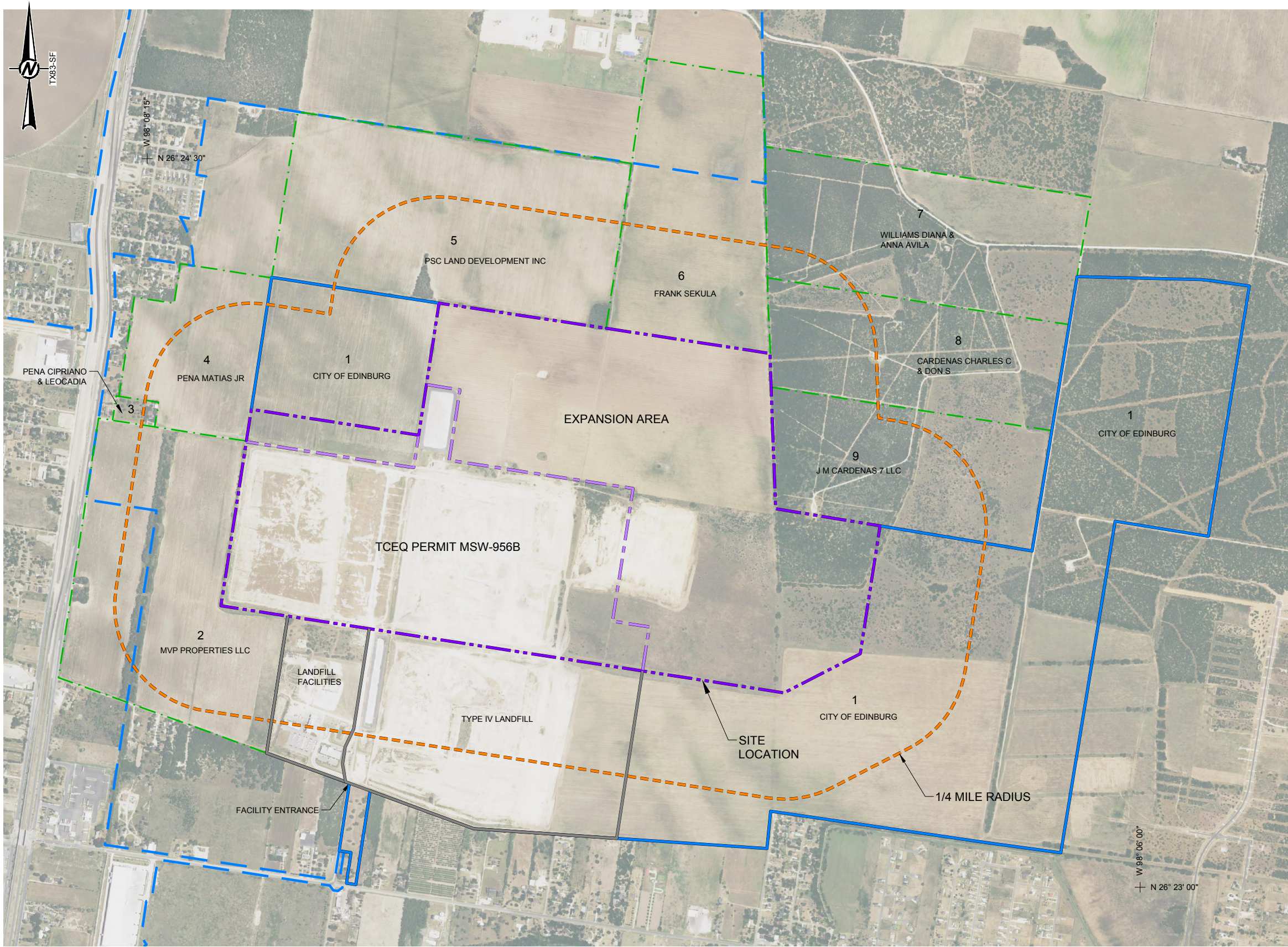


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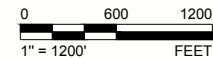
| LEGEND | |
|--------|--|
| | EXPANSION PERMIT BOUNDARY |
| | TCEQ PERMIT MSW-956B PERMIT BOUNDARY |
| | 1/4 MILE RADIUS |
| | PROPERTY OWNED BY THE CITY OF EDINBURG INCLUDED IN CITY LIMITS |
| | CITY LIMITS |
| | ADJACENT PROPERTY OWNER |

- NOTE(S)
- NO MINERAL INTEREST OWNERSHIP UNDER THE FACILITY OR FACILITY EASEMENT HOLDERS LISTED IN HIDALGO COUNTY APPRAISAL DISTRICT RECORDS ON DATE OF THIS APPLICATION. <http://hidalgoad.org/index.html>
 - NO STORM WATER INTAKE OR DISCHARGE STRUCTURES.
 - REFER TO FIGURE I-6, FACILITY LAYOUT PLAN FOR STRUCTURES ASSOCIATED WITH THE FACILITY'S DISPOSAL ACTIVITIES INCLUDING AN OUTLINE OF THE SOLID WASTE MANAGEMENT UNITS, INTERIOR ROADS, AND SURFACE WATER DRAINAGE FEATURES AS WELL AS ENTRANCE FACILITY STRUCTURES INCLUDING OFFICE, MAINTENANCE BUILDINGS, GATEHOUSE AND SCALES, AND ENTRANCE ROAD.
 - PROPERTY OWNED BY THE CITY OF EDINBURG ON THIS FIGURE IS WITHIN THE JURISDICTIONAL CITY LIMITS OF THE CITY OF EDINBURG.
 - THE CITY OF EDINBURG IS THE OWNER OF ALL OF THE LANDS LOCATED WITHIN THE PERMIT BOUNDARY.

| MAP ID | ADJACENT PROPERTY OWNER | HCAD PROPERTY ID |
|--------|---|--|
| 1 | CITY OF EDINBURG PO BOX 1079 EDINBURG, TX 78540-1079 | 137144 137157 598277 847730 137145 158365 599131 883423 137147 158366 641113 902278 137155 287793 791134 137156 598269 796521 137158 629272 |
| 2 | MVP PROPERTIES LLC 3101 N JACKSON RD MCALLEN, TX 78501-1446 | 683483 901367 |
| 3 | PENA CIPRIANO & LEOCADIA 137 ENCINITOS RD EDINBURG, TX 78542-8215 | 170443 170442 |
| 4 | PENA MATIAS JR 13303 N EXPRESSWAY 281 EDINBURG, TX 78542-6459 | 137149 137154 |
| 5 | PSC LAND DEVELOPMENT INC. 13303 N EXPRESSWAY 281 EDINBURG, TX 78542-6459 | 120161 |
| 6 | SEKULA FRANK 26151 N FM 681 EDINBURG, TX 78541-6124 | 287791 |
| 7 | WILLIAMS DIANA & ANNA AVILA ROBERT DE LA GARZA 400 BENDITO WAY MARBLE FALLS, TX 78654-6268 | 158362 |
| 8 | CARDENAS CHARLES C & DON S 2019 S MCCOLL RD STE A4 EDINBURG, TX 78539 | 158363 |
| 9 | J M CARDENAS 7 LLC 3211 SAGE HILL ST SAN ANTONIO, TX 78230-4922 | 158364 |

- REFERENCE(S)
- BASE MAP TAKEN FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DIGITAL ORTHO PHOTO IMAGE PUBLISHED BY USDA-FSA-APFO DATED DECEMBER 16, 2014.
 - PROPERTY OWNERS INFORMATION TAKEN FROM HIDALGO COUNTY APPRAISAL DISTRICT, HCAD DATED 2/9/18, DELIVERED FROM <http://www.hidalgoad.org/index.html>

ISSUED FOR PERMITTING PURPOSES ONLY



| REV. | YYYY-MM-DD | DESCRIPTION | DESIGNED | PREPARED | REVIEWED | APPROVED |
|------|------------|---|----------|----------|----------|----------|
| 2 | 2018-02-09 | UPDATE TO ADJACENT LANDOWNER LIST | CEI | MGC | JBF | CEI |
| 1 | 2017-11-07 | RESPONSE TO TCEQ FIRST NOTICE OF DEFICIENCY | CEI | MGC | JBF | CEI |
| 0 | 2017-07-21 | PERMIT AMENDMENT APPLICATION SUBMITTAL | CEI | AA | JBF | CEI |

SEAL

GOLDER ASSOCIATES INC.
TEXAS REGISTRATION F-2578

CLIENT

CONSULTANT

HOUSTON OFFICE
500 CENTURY PLAZA DRIVE, SUITE 190
HOUSTON, TEXAS
USA
[+1] (281) 821-6868
www.golder.com

PROJECT
EDINBURG REGIONAL DISPOSAL FACILITY
PERMIT AMENDMENT APPLICATION TCEQ PERMIT MSW-956C
EDINBURG, HIDALGO COUNTY, TEXAS

TITLE
LAND OWNERSHIP MAP

| | | | | |
|------------------------|--------------------------|-----------|--------|---------------|
| PROJECT NO. 1401491 | APPLICATION SECTION I | REV. 2 | 5 of 5 | FIGURE I-5 |
|------------------------|--------------------------|-----------|--------|---------------|

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

2.2 Installation Procedures

2.2.1 GCL Subgrade Preparation

Surfaces to be lined should be smooth and free of all rocks greater than 0.75-inch diameter (or as recommended by the manufacturer, if less than 0.75 inches), sharp/angular objects, sticks, roots, or debris of any kind. The surface should provide a firm, unyielding foundation for the GCL with no sudden, sharp, or abrupt changes or break in grade.

The subgrade surface shall be prepared by rolling with a smooth-drum roller to minimize the roughness and press down protruding soil or rock particles prior to GCL deployment. Loose rocks and/or dry soil particles that could damage the GCL shall be removed. Excessive voids or dimples shall be filled with soil. Standing water or excessive moisture on the subgrade will not be allowed. The subgrade shall be maintained in a smooth, uniform, and drained condition.

For the Unit 8 option, waste within Pre-Subtitle D Units 1-4 will be completely removed and relocated. Fill placement will be required to achieve subgrade elevations. Fill materials approved by POR must be placed in loose lifts not exceeding 8 inches and compacted to produce an acceptable subgrade for lining in accordance with construction design specifications.

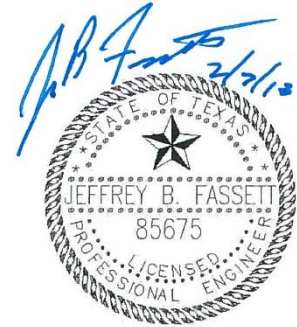
2.2.2 Anchor Trench Construction

The anchor trench shall be constructed according to the project plans and specifications, and the excavation and backfilling operations shall be documented. If the anchor trench is excavated in a clay material susceptible to desiccation, the amount of anchor trench open at any time should be minimized. The inside edge of the trench shall be rounded so as to avoid stresses from sharp bends in the GCL. The GCL will not be placed into the anchor trench on top of any rocks greater than 0.75-inch diameter, sharp/angular objects, sticks, roots, or debris of any kind. The anchor trench shall be adequately drained to prevent ponding or hydration of the GCL while the trench is open. The anchor trench shall be backfilled and compacted according to the project plans and specifications; however, backfilling shall be performed, at a minimum, with ordinary compaction as deemed suitable by the POR.

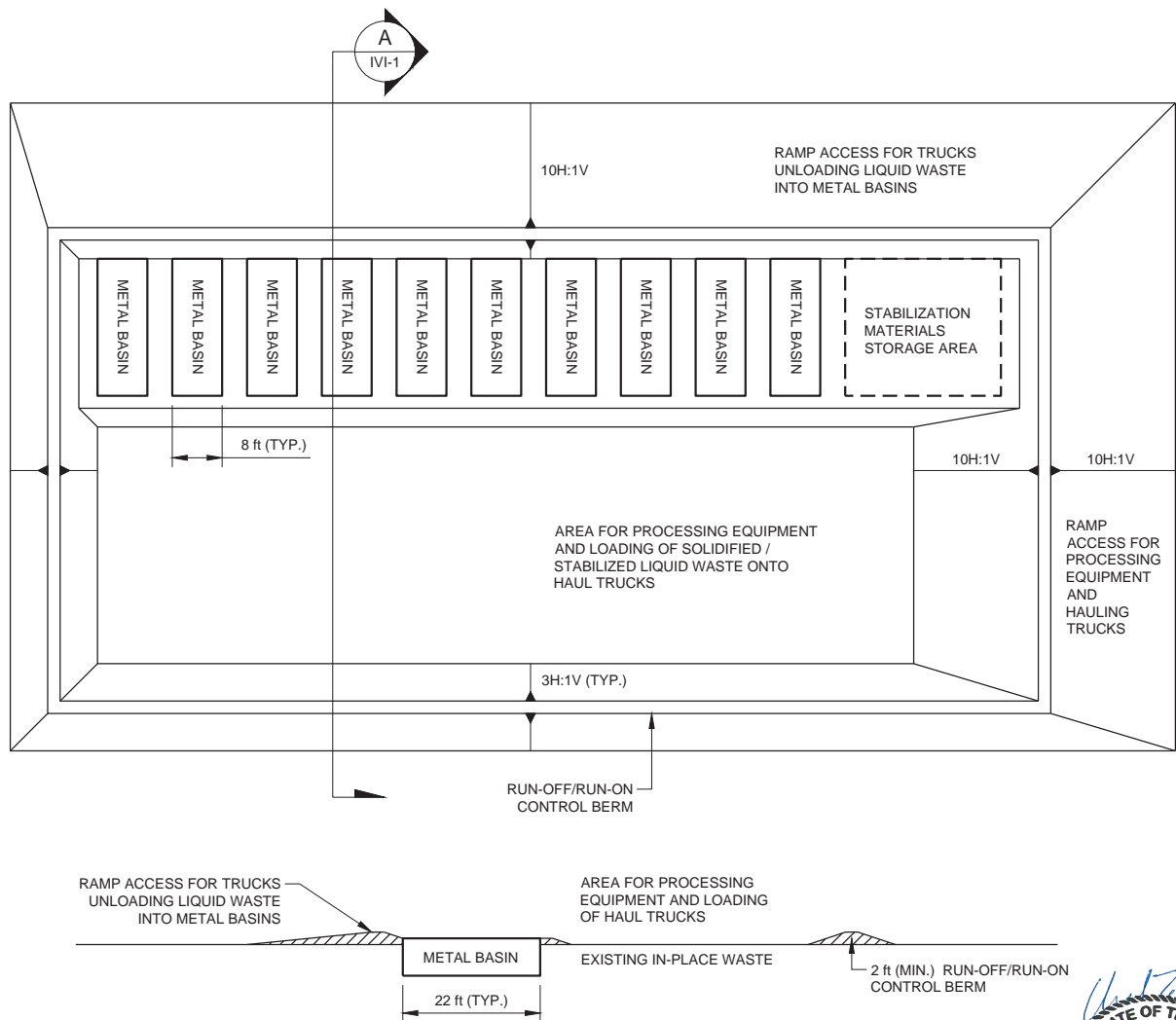
2.2.3 GCL Deployment

Equipment used to deploy GCL must not cause excessive rutting of the subgrade. Deployed GCL panels should contain no folds or excessive slack. Installation personnel must not smoke or wear damaging shoes on GCL. GCL should not be placed during excessive winds. Sand bags should be used to anchor deployed GCL when necessary. In general, only low ground pressure rubber-tired support equipment approved by the POR may be allowed on the GCL. If the POR or CQA monitor observes any potential damage done to the liner by the support equipment, use of the equipment will cease and the damage will be repaired. Generators, gasoline or solvent cans, tools, or supplies must not be stored directly on the GCL. GCL must be rolled into position, not dragged across the subgrade. Deployed GCL must not be used as a work area without adequate protection such as a rubber sheet.

Panels should be overlapped and seamed, as recommended by the manufacturer. End-to-end seams on sideslopes are not allowed. Care must be taken to assure the GCL is installed with the proper side up.



Professional Engineering Firm
Registration Number F-2578



SCALE 1:30 **A** SOLIDIFICATION/STABILIZATION AREA
IVI-1

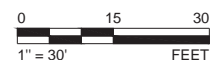


GOLDER ASSOCIATES INC.
TEXAS REGISTRATION F-2578

NOTE(S)

- METAL BASIN(S) DIMENSIONS ARE TYPICALLY 8 ft BY 22 ft BUT MAY VARY IN SIZE AND DEPTH.
- MAXIMUM OF TEN BASINS ALLOWED.
- A RUNOFF/RUN-OFF CONTROL BERM WILL BE INSTALLED AROUND PERIMETER OF THE METAL BASIN(S), SOLIDIFYING/STABILIZING MATERIAL STORAGE AREA, AND AREA FOR PROCESSING EQUIPMENT AND LOADING OF HAULING TRUCKS.
- RUNOFF/RUN-OFF CONTROL BERM WILL BE A MINIMUM OF 2 ft IN HEIGHT WITH 3H:1V SIDE SLOPES UNLESS THE LOCATION OF THE SOLIDIFICATION/STABILIZATION AREA IS ADJACENT TO A WASTE SLOPE WITH POTENTIAL FOR STORM WATER RUN-ON. THE RUN-ON BERM HEIGHT REQUIREMENTS AND DESIGN CONFIGURATIONS ARE DETAILED IN PART III2B, ACTIVE FACE BERM SIZING.
- RAMP ACCESS FOR TRUCKS UNLOADING LIQUID WASTE INTO BASINS AND FOR PROCESSING EQUIPMENT AND HAULING TRUCKS MUST BE PROVIDED.
- RUNOFF/RUN-OFF CONTROL BERM TO BE CONSTRUCTED OF COMPACTED EARTHEN MATERIAL.
- METAL BASIN(S) WILL BE INSTALLED SO THAT A MINIMUM OF 1 ft OF THE BASIN EXTENDS ABOVE THE SURROUNDING SOIL WHERE THE SURROUND SOILS ARE GRADED AWAY FROM THE BASIN TO PREVENT STORM WATER RUN-ON INTO THE BASIN(S).
- METAL BASIN(S) WILL BE AT LEAST 10 ft ABOVE THE TOP OF PROTECTIVE COVER SOIL OF THE UNDERLYING CONSTRUCTED LINING SYSTEM.
- STABILIZING MATERIALS, BULKING AGENTS, AND CONTAMINATED SOILS REQUIRED TO BE STORED WITHIN RUNOFF/RUN-OFF CONTROL BERMS WILL BE LIMITED TO NO MORE THAN 50 TONS AT ONE TIME.
- ANY PONDED CONTAMINATED WATER WITHIN THE RUNOFF/RUN-OFF CONTROL BERMS MUST BE PUMPED IN A TIMELY MANNER DIRECTLY INTO EITHER THE LEACHATE COLLECTION AND REMOVAL SYSTEM OR THE LEACHATE FORCEMAIN.

ISSUED FOR PERMITTING PURPOSES ONLY



CLIENT



CONSULTANT



| | |
|------------|------------|
| YYYY-MM-DD | 2018-01-11 |
| DESIGNED | CEI |
| PREPARED | TNB |
| REVIEWED | CEI |
| APPROVED | CEI |

PROJECT

EDINBURG REGIONAL DISPOSAL FACILITY
PERMIT AMENDMENT APPLICATION TCEQ PERMIT MSW-956C
EDINBURG, HIDALGO COUNTY, TEXAS

TITLE

SOLIDIFICATION AND STABILIZATION AREA LAYOUT

PROJECT NO.
1401491

APPLICATION SECTION
IVI

REV.
0

FIGURE
IVI-1