

**QUANTITY CHART**

ITEM	QUANTITY	UNIT
SILT FENCE	1989	LF
INLET FILTER	21	EA
MUD MAT	1200	SF

**SITE DATA**

DISTANCE TO NEAREST STREAM / DRAIN: 585' TO WEST PARK-FAIRGROUNDS DRAIN  
 SOIL TYPES: WawabB-WAWASEE LOAM, 2 TO 6 PERCENT SLOPES  
 WawabD-WAWASEE LOAM, 12 TO 18 PERCENT SLOPES

TEMPORARY SOIL EROSION MEASURES: SILT FENCES  
 INLET FILTERS

PERMANENT SOIL EROSION MEASURES: TOPSOIL, SEED & MULCH

**MAINTENANCE SCHEDULE**

THE CONTRACTOR SHALL INSPECT SESC MEASURES WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF EACH RAIN EVENT, AND DAILY DURING A PROLONGED RAIN EVENT BY DESIGNATED CONTRACTOR.

**MEASURE**      **MAINTENANCE SCHEDULE**

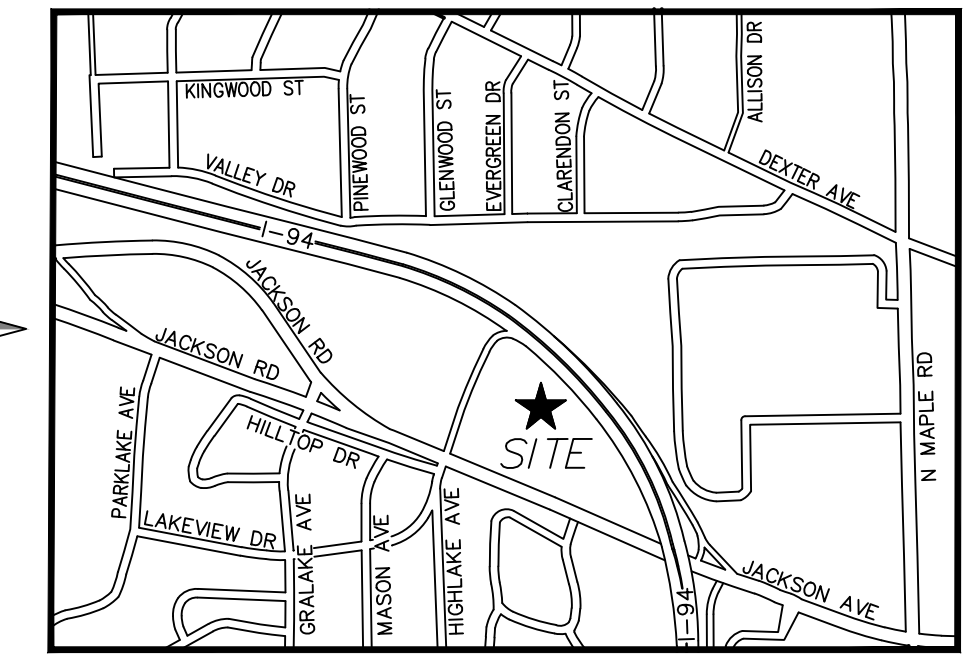
SILT FENCE      INSTALL AT THE START OF CONSTRUCTION PER PLAN. REMOVE ACCUMULATED SEDIMENTS WHEN DEPTH REACHES 1/2 TO 3/4 THE HEIGHT OF THE FENCE. FABRIC SHALL BE REPLACED IF DAMAGED.

INLET FILTER      INSTALL AT THE START OF CONSTRUCTION PER PLAN. REMOVE ACCUMULATED SEDIMENTS. FILTER SHALL BE REPLACED IF DAMAGED.

DUST CONTROL      WATER SHALL BE APPLIED TO EXPOSED AREAS BY THE CONTRACTOR IN THE EVENT OF EXCESSIVE AIRBORNE DUST. DUST CONTROL SHALL BE APPLIED AS DIRECTED BY THE ENGINEER OR CITY PERSONNEL.

VEGETATION (PERM)      SEED SHALL BE WATERED AND MULCH MAINTAINED UNTIL VIGOROUS TURF HAS BEEN ESTABLISHED.

MUD MAT      INSTALL AT THE START OF CONSTRUCTION PER PLAN. REMOVE ACCUMULATED SEDIMENTS, ADD STONE AS NEEDED AND REQUIRED BY THE ENGINEER, AND REPLACE GEOTEXTILE IF DAMAGED.



LOCATION MAP (NOT TO SCALE)

**SOIL EROSION COST ESTIMATE**

SOIL EROSION SEDIMENT CONTROL					
JACKSON AVE. HOTELS					
No.	Description	Quantity	Unit	Unit Cost	Total Cost
1	SILT FENCE	1990	L.F.	\$3.00	\$5,970.00
2	INLET FILTER	21	EA.	\$80.00	\$1,680.00
3	MUD MAT	1200	EA.	\$1.67	\$2,000.00
				<b>TOTAL</b>	<b>\$9,650.00</b>

COST TO STABILIZE SITE SHOULD CONSTRUCTION CEASE = \$25,190

**EROSION CONTROL NOTES**

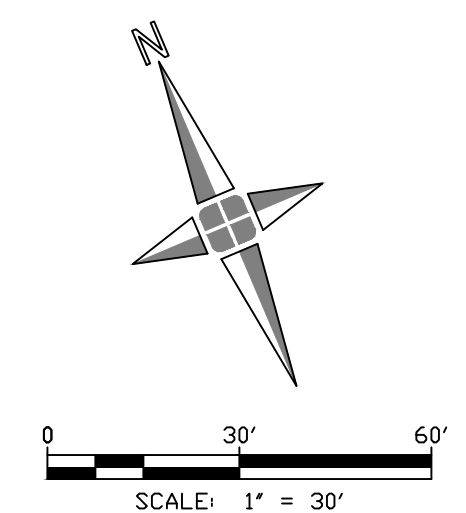
- REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ANN ARBOR.
- ANY EROSION AND SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED WITHIN THE WORK AREA AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. (WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, PONDS AND WETLANDS)
- THE CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS DIRECTED ON THESE PLANS AND WHENEVER OTHERWISE REQUIRED BY THE WORK. THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER CHANGES HAVE BEEN ACCOMPLISHED.
- SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY THE CONTRACTOR. SEDIMENTATION CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF DIRT OUT OF THE WORK AREA.
- THE CONTRACTOR SHALL PRESERVE NATURAL VEGETATION AS MUCH AS POSSIBLE.
- PROTECT ALL EXISTING TREES, INCLUDING THEIR BRANCHES AND ROOTS, FROM DAMAGE DUE TO THIS WORK UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.
- VEGETATION STABILIZATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 5 DAYS OF COMPLETION OF FINAL GRADING.
- THE CONTRACTOR SHALL SWEEP THE EXISTING STREETS SURROUNDING THE PROJECT SITE ONCE A WEEK, OR AS DIRECTED BY THE ENGINEER OR INSPECTOR. STREET SCRAPING SHALL BE PERFORMED IN CONJUNCTION WITH THIS SWEEPING ON AN AS NEEDED BASIS.
- THE SEDIMENT CONTROL FENCING INDICATED ON THIS PLAN IS NOT INTENDED TO SHOW THE EXACT LOCATION OF THE FENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE REQUIRED TO CONTAIN SEDIMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE NPDES REGULATIONS, INCLUDING: INSPECTION, RESTORATION, AND RECORD KEEPING REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL SOIL EROSION CONTROLS AS INDICATED BY THESE PLANS.
- CONSTRUCTION ACTIVITIES (INCLUDING INSTALLATION OF PIPE AND ASSOCIATED VALVES, STRUCTURES, BACK FILLING, SURFACE RESTORATION, AND REMOVAL OF EXCESS EXCAVATED MATERIAL) SHALL BE ACCOMPLISHED IN ONE CONTINUOUS OPERATION.
- PAVEMENT AND/OR VEGETATION SHALL NOT BE STRIPPED FROM AN AREA UNLESS CONSTRUCTION ACTIVITIES ARE TO COMMENCE IN THAT AREA WITHIN THE NEXT THREE DAYS.
- IF FOR ANY REASON PERMANENT STABILIZATION CAN NOT BE PROVIDED WITHIN 5 DAYS OF THE COMPLETION OF PIPE LAYING OPERATIONS, TEMPORARY STABILIZATION SHALL BE PROVIDED AT ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL FURTHERMORE BE PROVIDED DURING THE NON-GROWING SEASON (OCTOBER 1 THROUGH APRIL 20) FOR ALL AREAS TO BE SEEDDED.
- TEMPORARY STABILIZATION SHALL CONSIST OF EITHER SMALL GRAIN STRAW OR GRASS HAY SPREAD AT THE RATE OF 1.5 TO 2 TONS PER ACRE, OR MULCH BLANKETS, WHICH SHALL BE ANCHORED IN PLACE TO PREVENT DISPLACEMENT FROM WIND AND RAIN. TEMPORARY STABILIZATION SHALL BE REPAIRED AS OFTEN AS NECESSARY, AS DETERMINED BY THE AGENCY WITH JURISDICTION.
- ALL DEWATERING SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT CONTRIBUTE TO DEPOSITION OF SEDIMENT IN ROAD DITCHES OR OPEN WATER.
- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED.
- SEDIMENT CONTROL FENCING SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND SEVERAL TIMES DURING PROLONGED STORM EVENTS. IF THE FENCE IS SAGGING, OR SOIL HAS REACHED ONE HALF OF THE HEIGHT OF THE FABRIC, THE SOIL BEHIND THE FABRIC SHALL BE REMOVED AND DISPOSED OF IN A STABLE AREA OF THE SITE. IF WATER IS SEEPING UNDER THE FENCE, OR THE FABRIC IS DECOMPOSED OR OTHERWISE INEFFECTIVE, THE FENCE SHALL BE REMOVED AND PROPERLY REINSTALLED AS INDICATED ON THESE PLANS.
- MUD MAT ENTRANCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH STORM RAINFALL. THE SURROUNDING ROADS SHALL ALSO BE INSPECTED AT THIS TIME FOR EVIDENCE THAT MUD IS BEING TRACKED OFF OF THE SITE. MAINTENANCE SHALL INCLUDE THE INSTALLATION OF ADDITIONAL LAYERS OF STONE WHEN THE ORIGINAL STONE BECOMES COVERED WITH MUD. ALL SEDIMENT DROPPED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY BY SWEEPING AND SCRAPING (AS MAY BE REQUIRED BY THE ENGINEER).
- SEDIMENT INLET FILTERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND SEVERAL TIMES DURING PROLONGED STORM EVENTS. THE FILTERS SHALL BE CLEANED PERIODICALLY THROUGHOUT CONSTRUCTION TO AVOID CLOGGING. FILTERS THAT CANNOT BE MAINTAINED BY CLEANING SHALL BE COMPLETELY REPLACED.
- BOTH INTERNAL AND EXTERNAL STREETS WILL BE CLEANED OF ANY TRACKED MUD IMMEDIATELY FOLLOWING EACH MUD-TRACKING OCCURRENCE.

**CONSTRUCTION SEQUENCE**

- SESC PRE-GRADING MEETING      APRIL 2020
- MOBILIZATION      MAY 2020
- INSTALL SILT FENCE AND INLET FILTERS AT EXISTING CATCH BASINS PER PLAN      MAY 2020
- REMOVALS PER PLAN      JUNE 2020
- EARTHWORK OPERATIONS      JULY 2020
- UTILITY INSTALLATION PER PLAN      AUGUST 2020
- PAVING BASE OPERATIONS      SEPTEMBER 2020 - MARCH 2021
- BUILDING CONSTRUCTION      APRIL 2021
- PAVING      MAY 2021
- RESTORATION      MAY 2021
- REMOVE SESC MEASURES AFTER STABILIZATION      MAY 2021

**LEGEND**

- PR. SILT FENCE
- SOIL LINES
- PR. LIMITS OF EARTH DISRUPTION
- PR. TEMP. STONE ACCESS DRIVE
- AbC** SOIL TYPE
- INLET FILTER BAG
- INLET FILTER WITH SILT FENCE
- RIP RAP



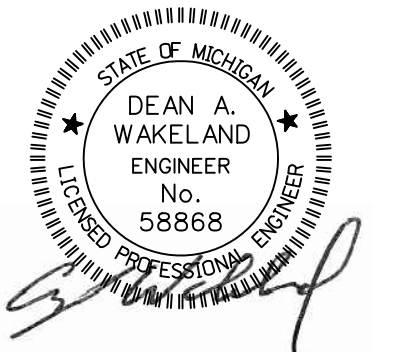
NOT TO BE USED AS CONSTRUCTION DRAWINGS

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: MP  
 Manager: AW  
 Designer: AW  
 Quality Control: MP  
 Section: 25  
 T-2-S R-5-E

Professional Seal:



Know what's below.  
 Call before you dig.

DATE:	ISSUE:
12.19.2018	REZONING
01.30.2019	SUBMITTAL
02.25.2019	OWNER REVIEW
02.28.2019	SUBMITTAL
08.22.2019	SUBMITTAL
12.06.2019	SUBMITTAL
01.27.2020	SUBMITTAL
02.28.2020	SUBMITTAL

Developed For:

**ANN ARBOR BEST HOSPITALITY, INC.**

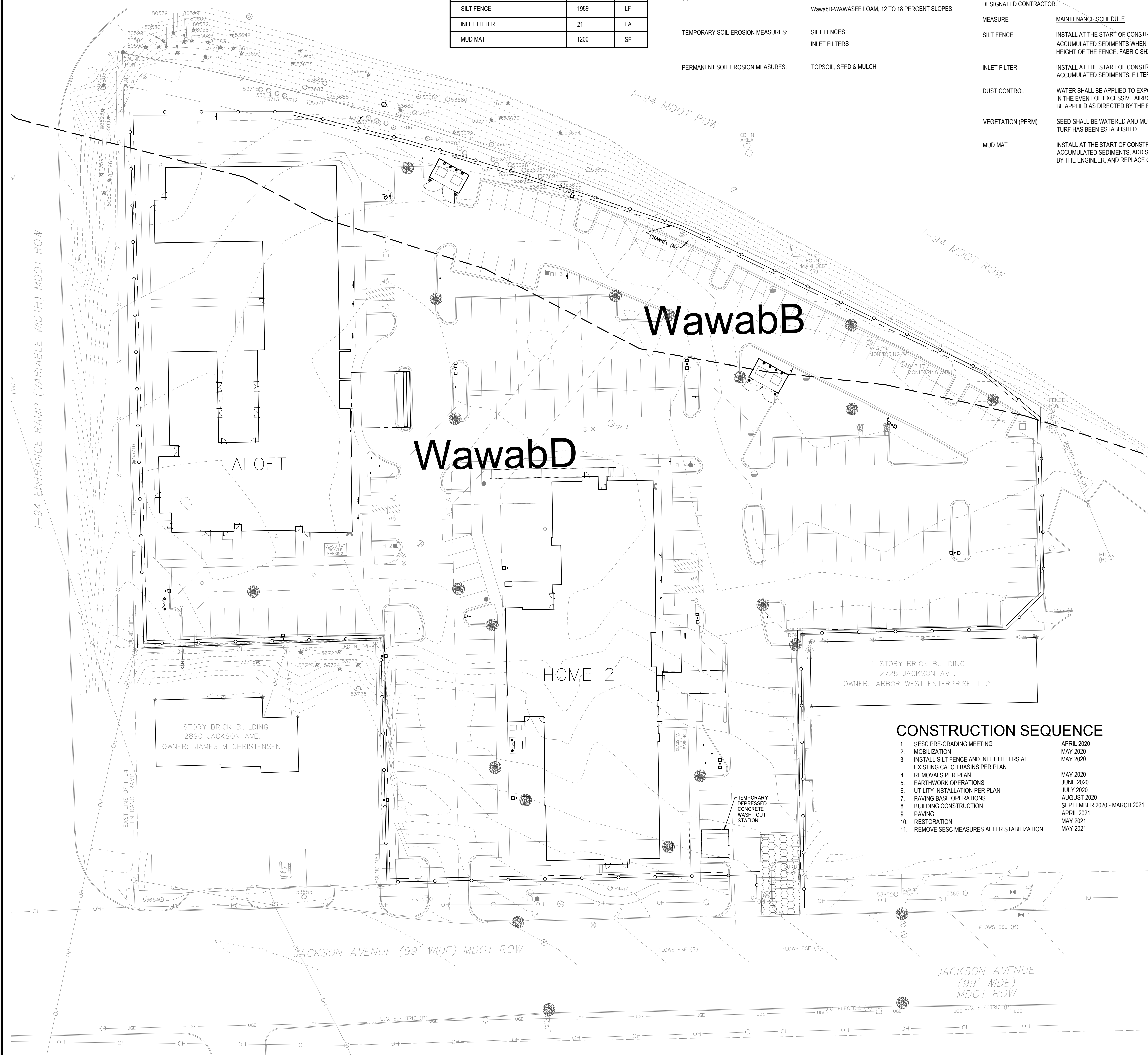
31100 STEPHENSON HWY.  
 MADISON HEIGHTS, MI 48071  
 (248) 281-4168

**SOIL EROSION PLAN**

2800 JACKSON AVENUE HOTELS

CITY OF ANN ARBOR  
 WASHTENAW COUNTY  
 MICHIGAN

Date: 08.29.2018  
 Scale: 1"=30'  
 Sheet: 09  
 Project: 19452.00



Executive:	MP
Manager:	AW
Designer:	AW
Quality Control:	MP
Section:	25
	T-2-S R-5-E

Professional Seal:



Know what's below.  
Call before you dig.

DATE:	ISSUE:
12.19.2016	REZONING
01.30.2019	SUBMITTAL
02.25.2019	OWNER REVIEW
02.28.2019	SUBMITTAL
08.22.2019	SUBMITTAL
12.06.2019	SUBMITTAL
01.27.2020	SUBMITTAL
02.28.2020	SUBMITTAL

Developed For:

**ANN ARBOR BEST HOSPITALITY, INC.**

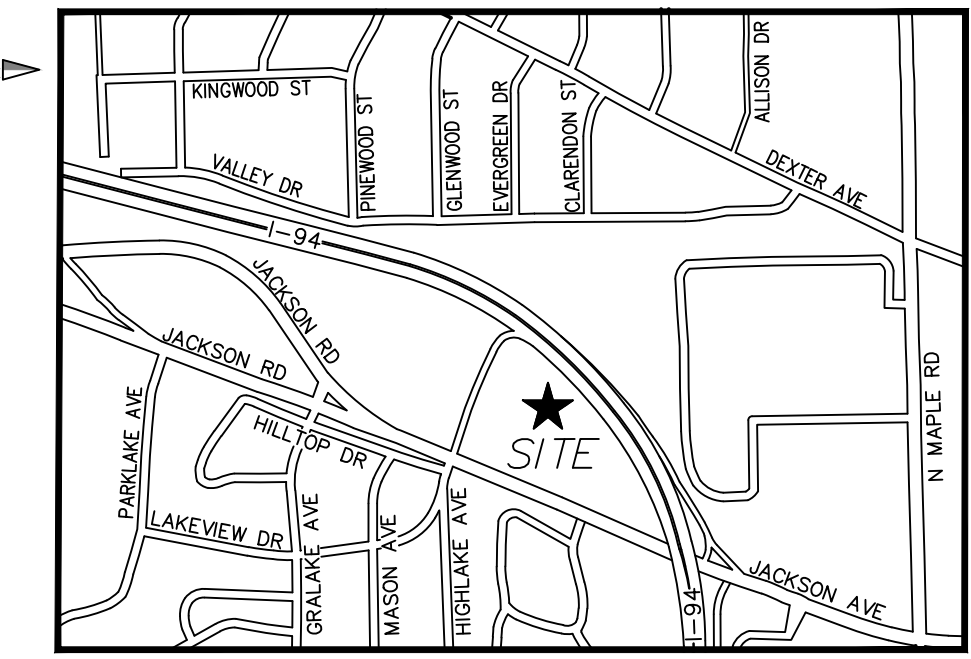
31100 STEPHENSON HWY.  
MADISON HEIGHTS, MI 48071  
(248) 281-4168

**SOLID WASTE PLAN**

2800 JACKSON AVENUE  
HOTELS

CITY OF ANN ARBOR  
WASHTENAW COUNTY  
MICHIGAN

Date:	08.29.2018
Scale:	1"=30'
Sheet:	10
Project:	19452.00



LOCATION MAP  
( NOT TO SCALE )

**LEGEND**

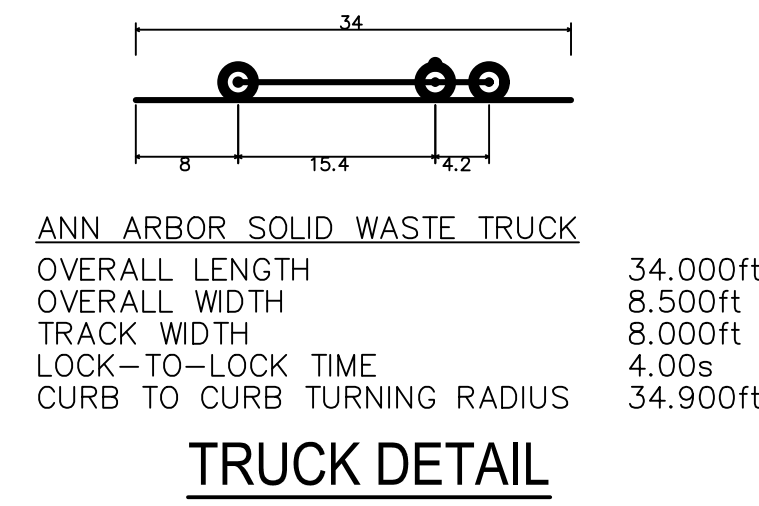
- PR. SANITARY MANHOLE
- PR. CLEANOUT
- PR. STORM CATCH BASIN
- PR. STORM MANHOLE
- PR. FIRE HYDRANT
- PR. LIGHTPOLE
- ▬ STANDARD CURB
- ▬ REVERSE CURB
- ▬ PROPERTY BOUNDARY
- ▬ RAILING
- ▬ RIP RAP

**GENERAL NOTES:**

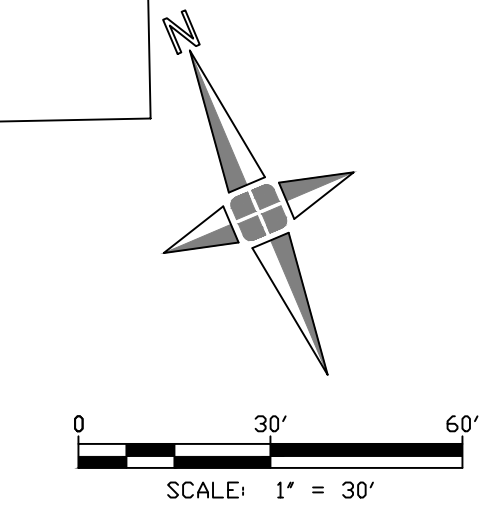
- A CLEAR SPACE MUST BE MAINTAINED DIRECTLY IN FRONT OF THE SOLID WASTE ENCLOSURE. THE CLEAR SPACE SHALL BE A MINIMUM OF FIFTY (50) FEET LONG BY THE WIDTH OF THE INSIDE DIMENSION OF THE ENCLOSURE PLUS FOUR (4) FEET ON BOTH SIDES. A MINIMUM VERTICAL CLEARANCE OF AT LEAST TWENTY-FIVE (25) FEET MUST BE PROVIDED ABOVE THIS AREA.
- INGRESS AND EGRESS ROUTES MUST BE DEVELOPED BASED ON SOLID WASTE SWEEP PATH REQUIREMENTS. A MINIMUM HORIZONTAL CLEARANCE OF TWO (2) FEET FROM THE EDGE OF THE SWEEP PATH AND A MINIMUM VERTICAL CLEARANCE OF AT LEAST FIFTEEN (15) FEET MUST BE PROVIDED ALONG THE ENTIRE ROUTE.
- GATES ON ENCLOSURES MUST BE DESIGNED TO OPEN A MINIMUM OF 120 DEGREES FROM THE CLOSED POSITION. THE GATES MUST NOT REDUCE THE REQUIRED ENCLOSURE OPENING WIDTH, BLOCK ADJACENT PARKING SPOTS, OR BE IMPEDED BY ADJACENT CURBS OR LANDSCAPING.
- GATES SHALL BE DESIGNED TO BE FREE STANDING WITHOUT A CENTER POLE. IF A CENTER POLE DESIGN IS NECESSARY, 12-INCHES SHALL BE ADDED TO THE OVERALL WIDTH OF THE ENCLOSURE.
- GATE DESIGN SHALL INCLUDE A RELIABLE MEANS TO SECURE THE DOOR IN BOTH THE OPEN AND CLOSED POSITIONS.
- THE CONCRETE SLAB IN FRONT OF THE BIN ENCLOSURE SHALL HAVE PAVEMENT MARKINGS TO INDICATE "NO PARKING", AS APPROVED BY CITY.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF NO PARKING SIGNS ALONG THE SOLID WASTE INGRESS/EGRESS ROUTE TO ENSURE THE ROUTE REMAINS FREE OF OBSTRUCTIONS.
- REFER TO ASSOCIATED STANDARD DETAILS FOR REQUIREMENTS ON SINGLE AND DOUBLE WIDE SOLID WASTE BIN ENCLOSURE LAYOUT AND DESIGN CRITERIA. THE CITY SHALL HAVE THE ABILITY TO MODIFY OR INTERPRET THESE DETAILS AS NECESSARY, TO ACCOMMODATE THE CITY OR CITY CONTRACTOR NEEDS IN REGARDS TO SOLID WASTE PICK-UP.
- SOLID WASTE ACCESS ROADS AND SERVICE AREA SURFACES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF COLLECTION TRUCKS WEIGHING UP TO 66,000 LBS GROSS VEHICLE WEIGHT (GVW) AND SHALL BE PROVIDED WITH AN APPROVED SURFACE SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES. PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL REQUIRED FOR SAFE ACCESS OF SOLID WASTE VEHICLES.
- THE SOLID WASTE COLLECTION LOCATION SHALL BE LOCATED A MINIMUM OF TEN (10) FEET AWAY FROM MAJOR ELECTRICAL EQUIPMENT, ABOVE GROUND UTILITY SERVICES, TREE BRANCHES, BALCONIES OR OTHER OVERHEAD OBSTRUCTIONS.
- IF FORWARD ACCESS TO THE PUBLIC STREET IS NOT AVAILABLE FOR THE SOLID WASTE TRUCK, THE SITE DEVELOPMENT LAYOUT MUST ACCOMMODATE A TURN-AROUND LOCATION.
- FOR SITES THAT CANNOT ACCOMMODATE A TURN-AROUND, THE FOLLOWING REQUIREMENTS MUST BE MET:
  - SOLID WASTE TRUCKS MUST BE ABLE TO SERVICE DUMPSTERS WITHOUT IMPEDING THE PUBLIC STREET OR SIDEWALK.
  - THE DUMPSTER COLLECTION LOCATION SHALL BE CLEARLY DELINEATED AND NOT HAVE A SLOPE GREATER THAN 2% IN ANY DIRECTION.
  - BOLLARDS OR ADEQUATE CLEAR SPACE MUST BE PROVIDED BEHIND THE LIFT POINT SO THE DUMPSTERS ARE NOT POTENTIALLY PUSHED INTO ANY BUILDING OR ACCESS ROUTE.
  - ALL SWEEP-PATH CLEARANCE REQUIREMENTS PREVIOUSLY IDENTIFIED SHALL BE PROVIDED.
  - A VERTICAL CLEARANCE OF 25 FEET SHALL BE PROVIDED ABOVE THE COLLECTION LOCATION.
- FOR SITES THAT CANNOT ACCOMMODATE A STANDARD DUMPSTER ENCLOSURE, THE DUMPSTERS MAY BE ROLLED OUT OF A BUILDING OR ALTERNATE ENCLOSURE BY THE PROPERTY OWNER TO A PROPOSED COLLECTION LOCATION. A COLLECTION SCHEDULE FOR RECYCLING AND TRASH COLLECTION SHALL BE PROVIDED ON THE SITE PLAN.
- FOR SITES ADJACENT TO A PUBLIC ALLEY, SOLID WASTE TRUCKS ARE PERMITTED TO ACCESS THE PROPERTY THROUGH THE ALLEY IF SWEEP-PATH CLEARANCE REQUIREMENTS CAN BE PROVIDED.
- SOLID WASTE COLLECTION LOCATIONS MUST BE LOCATED WITHIN THE BOUNDARIES OF THE PROPERTY.

**SITE SPECIFIC NOTES**

- 1- 6 YARD TRASH CONTAINER AND 1- 6 YARD RECYCLING CONTAINER TO BE USED FOR EACH HOTEL
- SCHEDULE - EACH HOTEL WILL REQUIRE A PICKUP MONDAY, WEDNESDAY AND FRIDAY FOR BOTH WASTE AND RECYCLING.

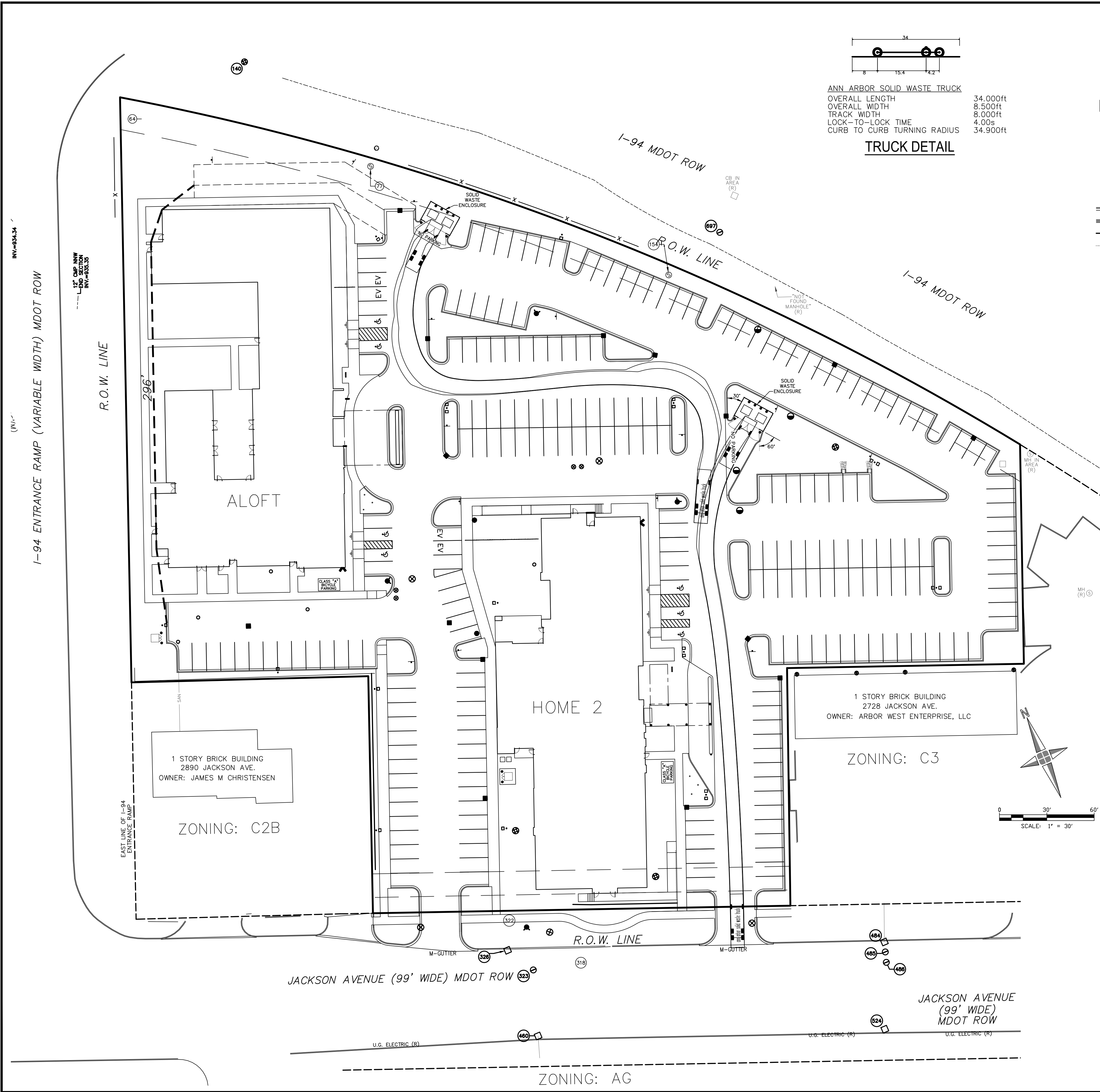


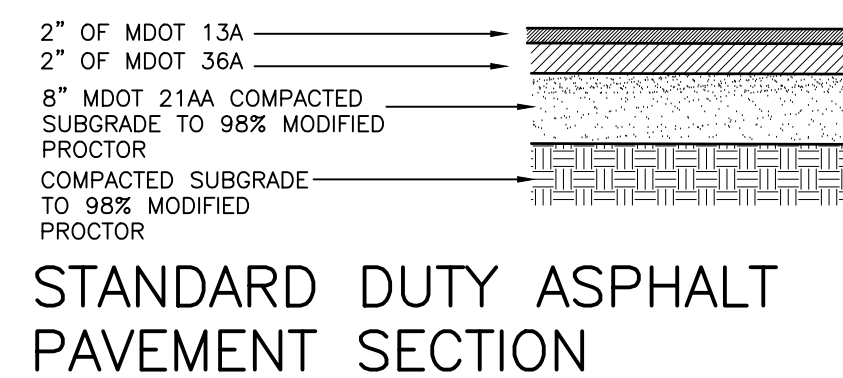
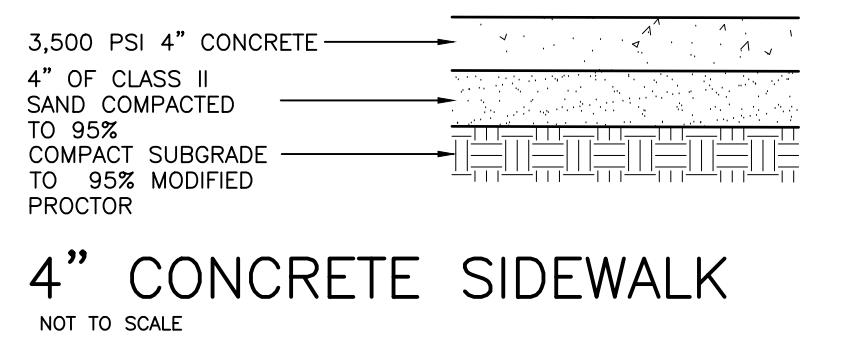
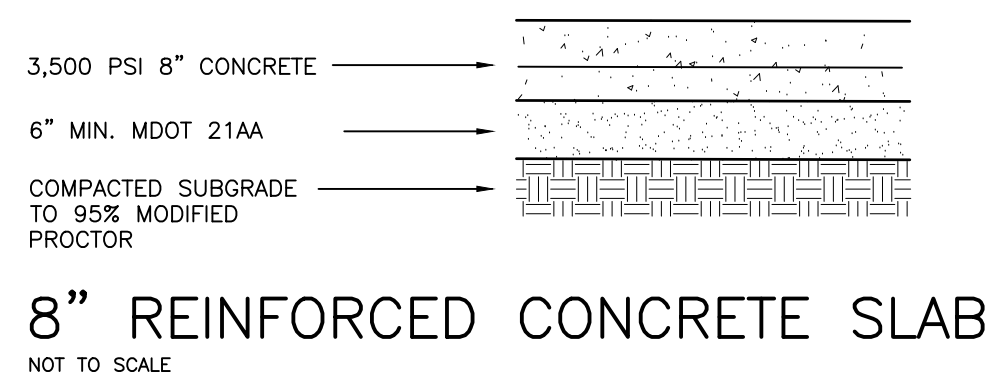
**TRUCK DETAIL**



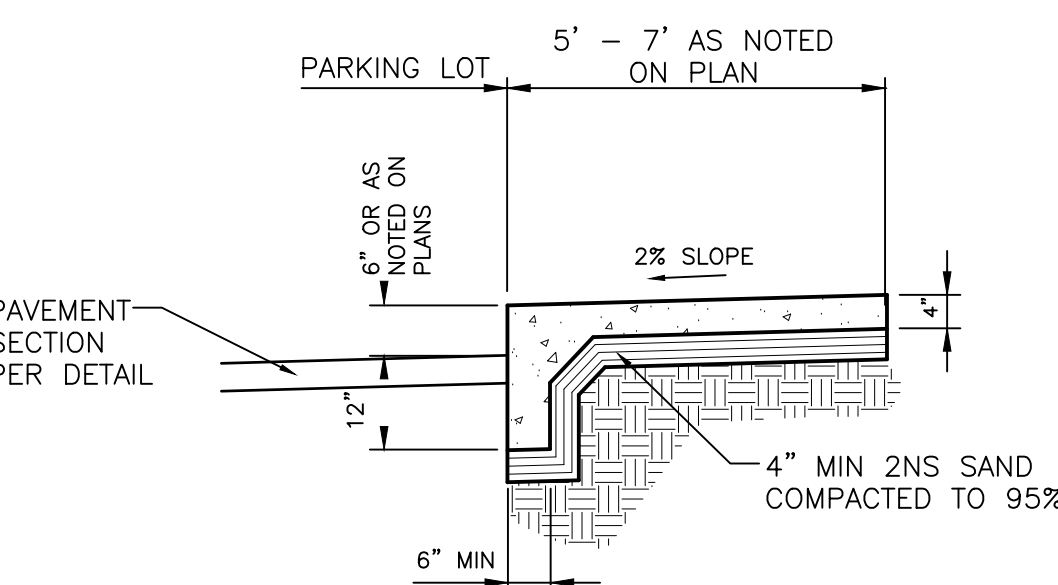
**FOR DOUBLE BIN ENCLOSURE  
DETAIL - SEE SHEET 11**

NOT TO BE USED AS  
CONSTRUCTION DRAWINGS

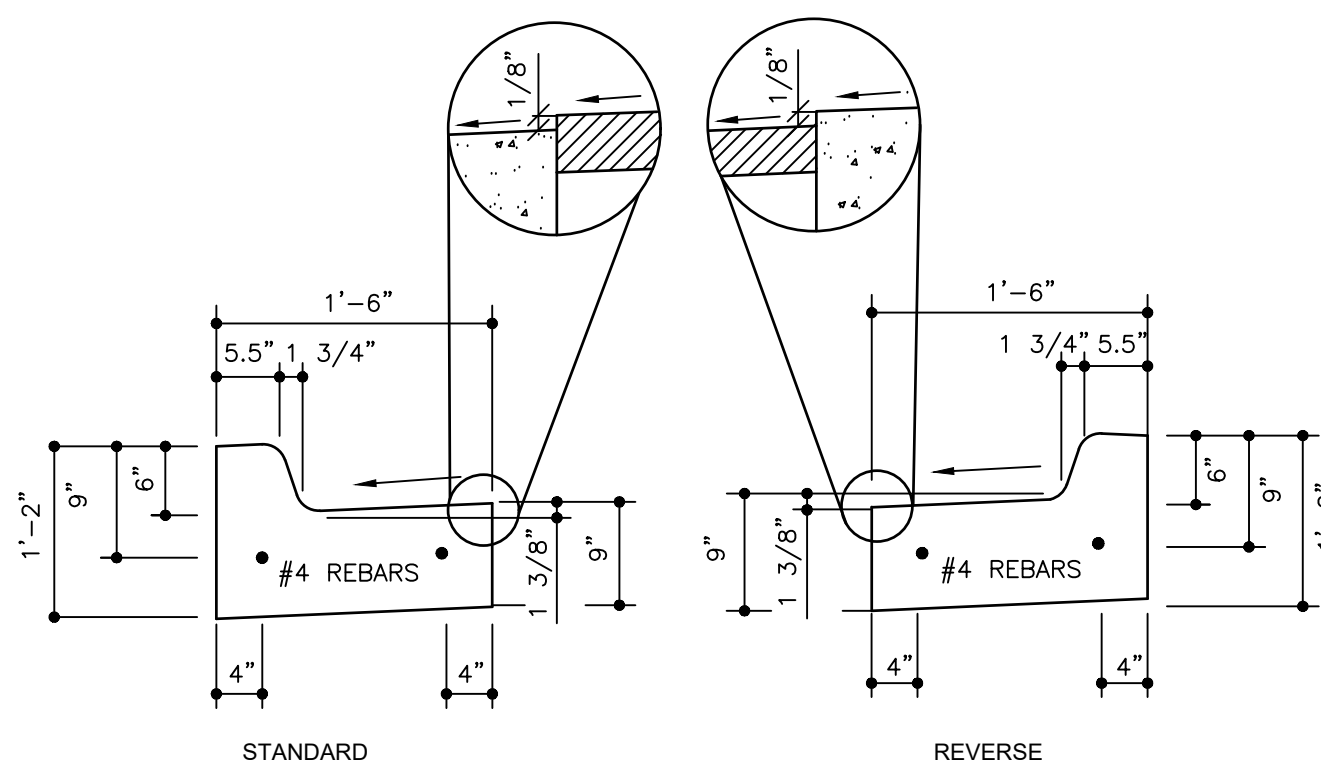




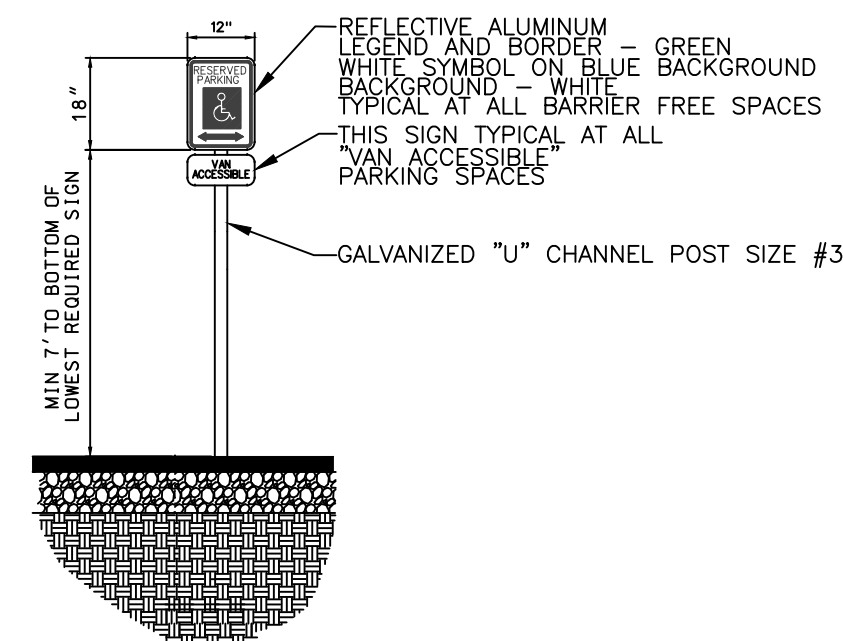
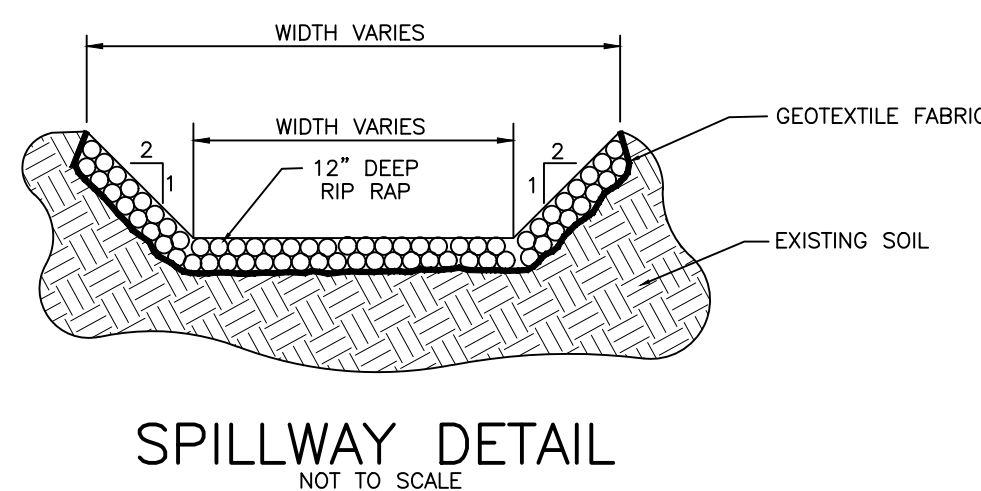
NOTE:  
1. IF ANY OF THE EXISTING BASE CANNOT BE UTILIZED, IT SHALL BE REMOVED AND REPLACED WITH MDOT 21AA MATERIAL.  
2. THE PLACEMENT OF THE FINAL LIFT OF ASPHALT SHALL BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION HAS BEEN COMPLETED, OR AS DIRECTED BY THE ENGINEER.  
3. A BOND COAT OF SS-1H EMISSION SHALL BE APPLIED (AT A RATE OF 0.10 GALLONS/S.Y. BETWEEN THE LEVELING AND WEARING COURSE WHEN 48 HOURS HAVE ELAPSED BETWEEN PLACEMENT.



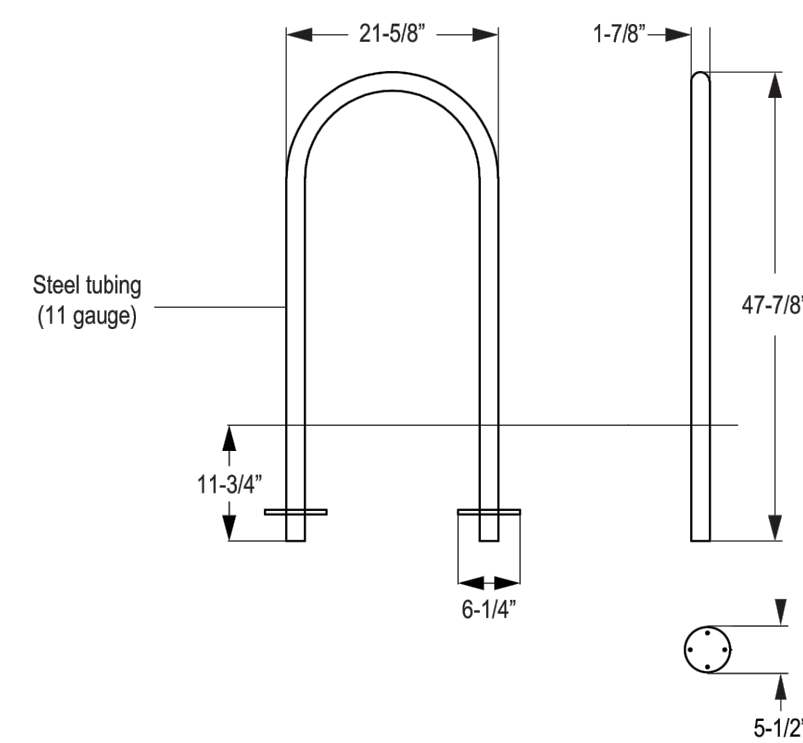
NOTE:  
USE 8" CONCRETE WALK IF WITHIN DRIVE APPROACH, INTERSECTION OR CALLED OUT ON PLANS. PLACE 2NS SAND AS REQUIRED TO OBTAIN GRADE AND COMPACT TO 95% MODIFIED PROCTOR.



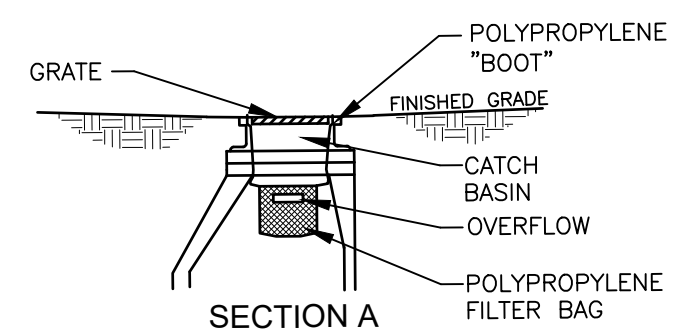
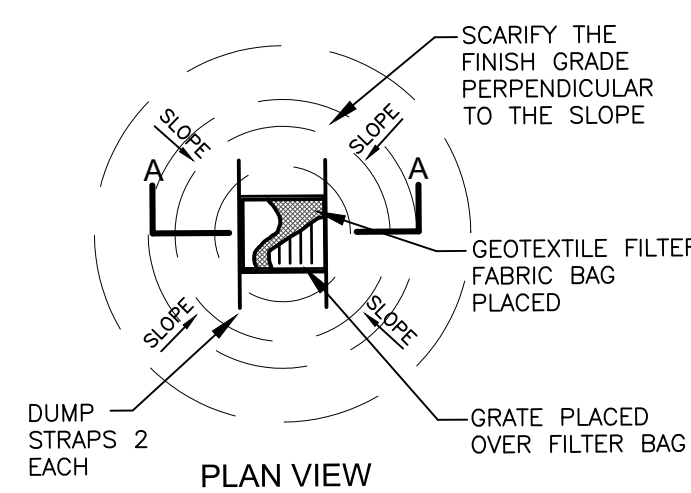
NOTE:  
USE MDOT 35P CONCRETE-TYPICAL ALL C&G. REFERENCE MDOT DETAIL II-30D TYPE F4.



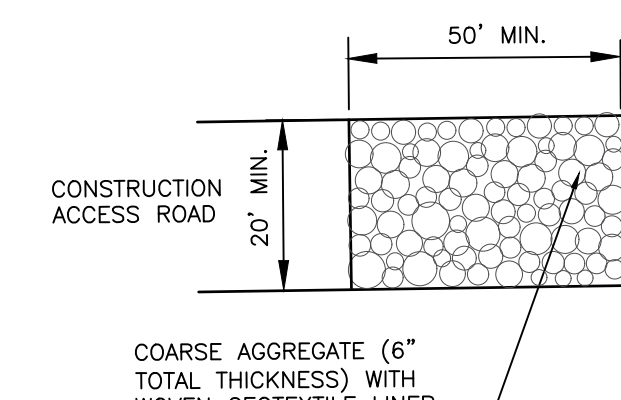
REFLECTIVE ALUMINUM LEGEND AND BORDER - GREEN  
WHITE SYMBOL ON BLUE BACKGROUND BACKGROUND - WHITE  
TYPICAL AT ALL BARRIER FREE SPACES  
THIS SIGN TYPICAL AT ALL UNAN ACCESSIBLE PARKING SPACES  
GALVANIZED "U" CHANNEL POST SIZE #3



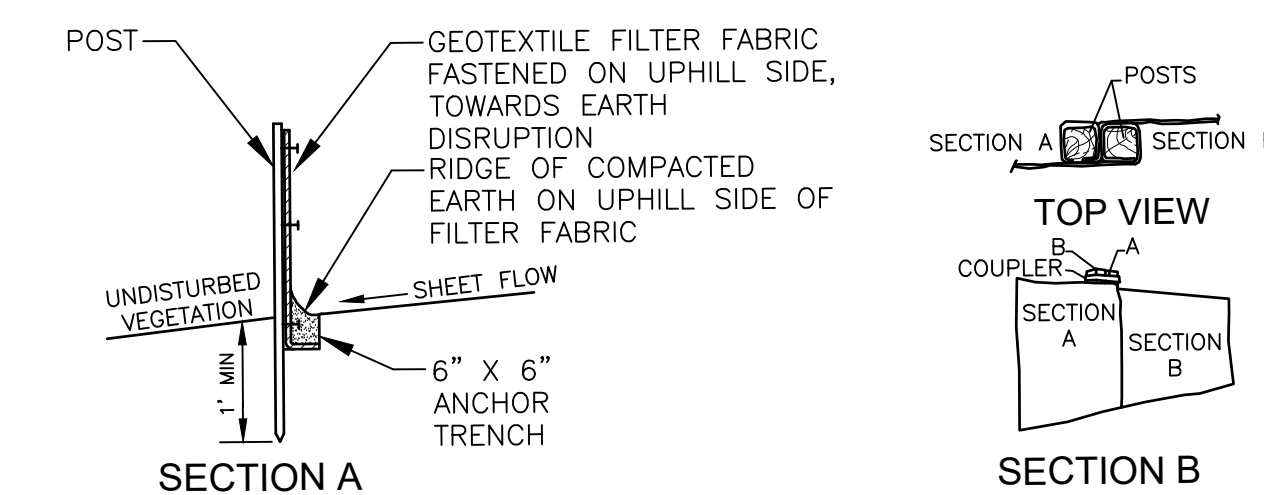
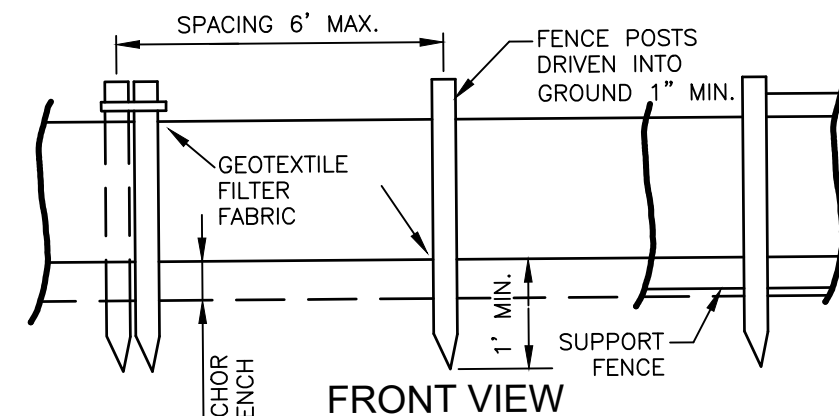
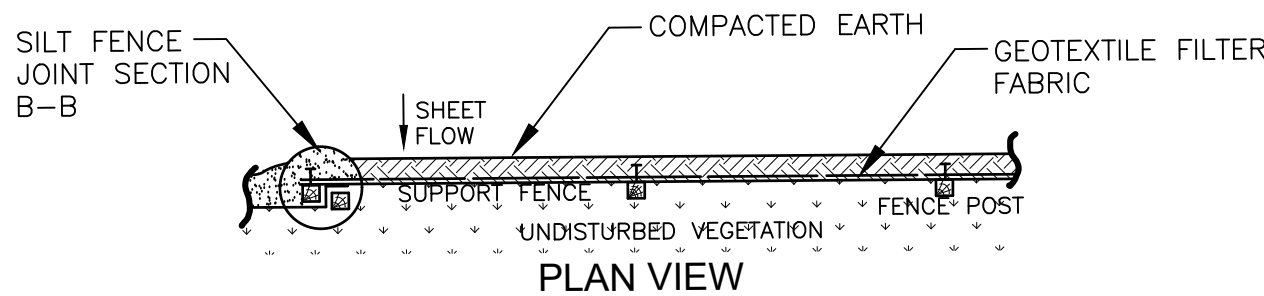
Steel tubing (11 gauge)



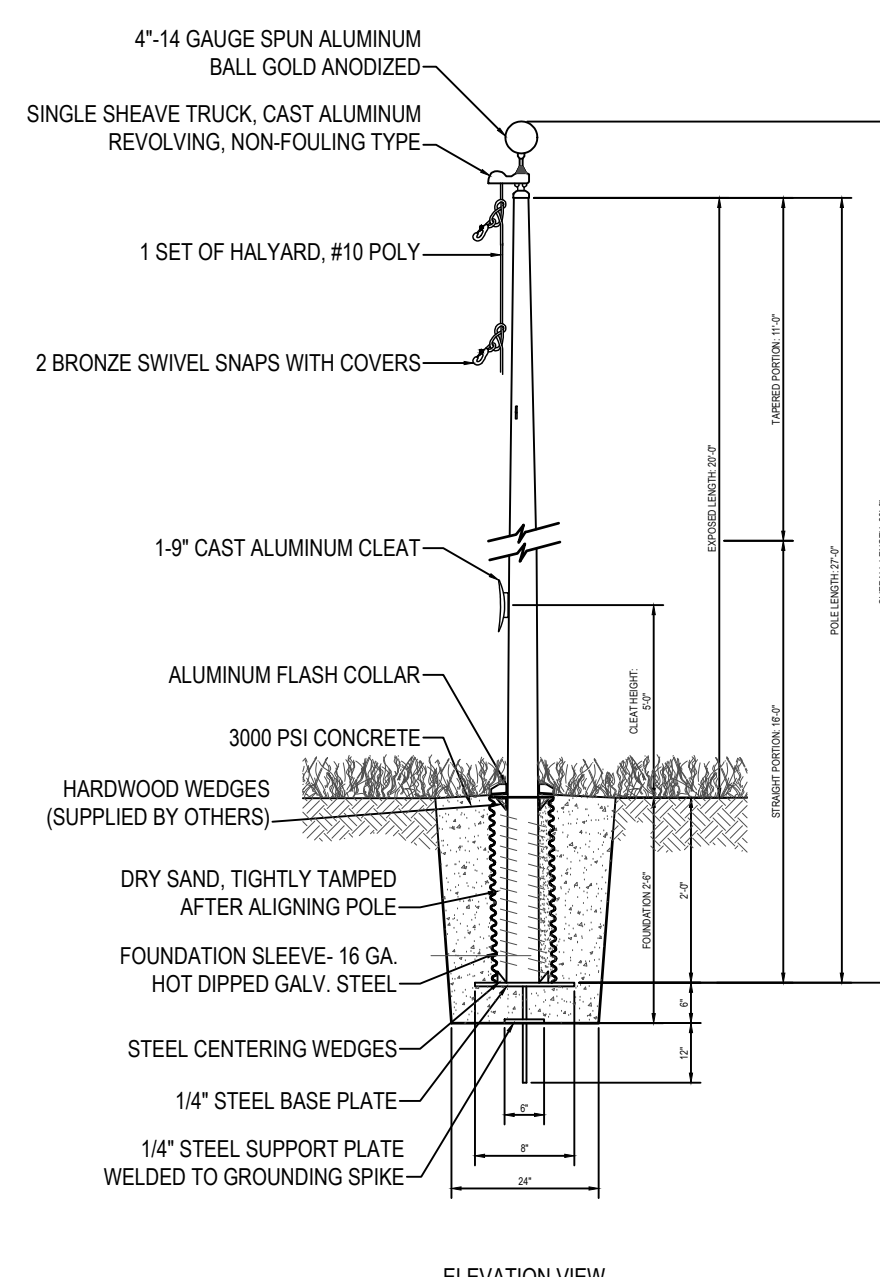
NOTE:  
TEMPORARY SEDIMENT INLET FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS, OR AS SPECIFIED ON THE SOIL EROSION CONTROL PLAN. INLET FILTER TO BE SIMILAR TO "STEAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED, OR AS REQUIRED BY THE SOIL EROSION CONTROL PLAN.



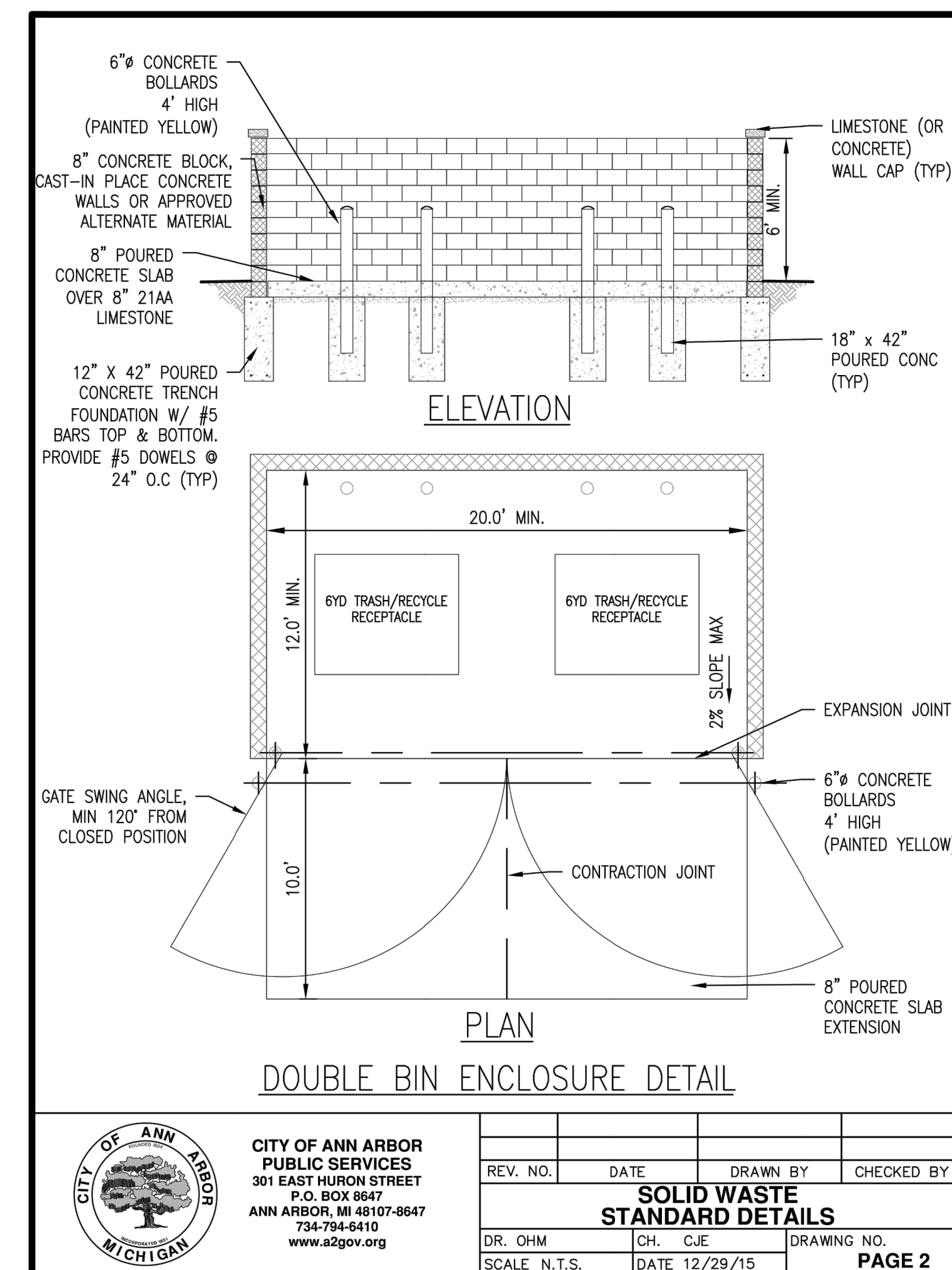
NOTE:  
GRAVEL PAD IS REQUIRED TO PROVIDE BUFFER AREA WHERE VEHICLES CAN DROP MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PAVED ROADS, TO CONTROL EROSION FROM SURFACE RUNOFF AND TO HELP CONTROL DUST.



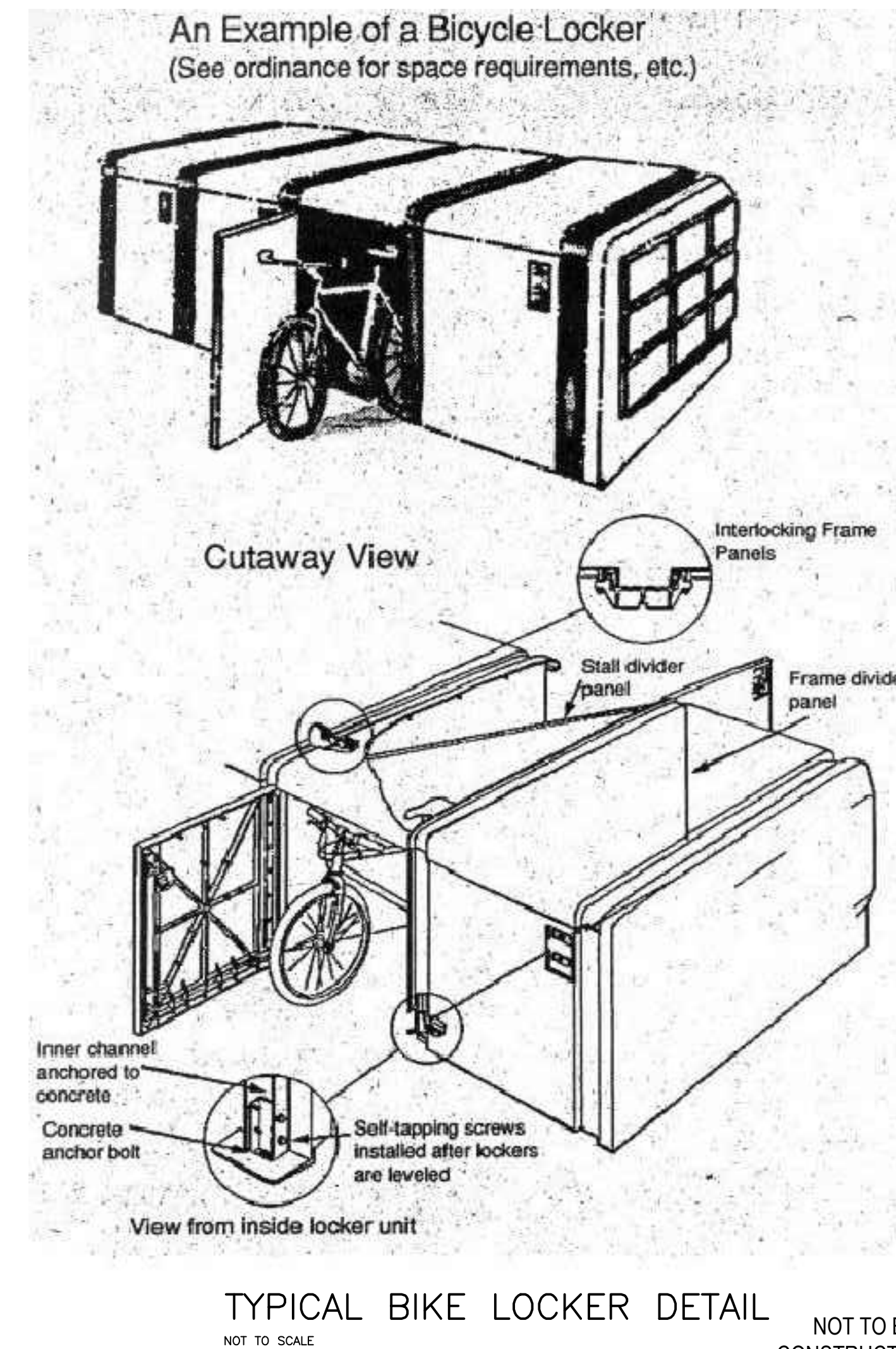
**SEDIMENT CONTROL FENCING**  
NOT TO SCALE



NOTE:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.  
3. DO NOT SCALE DRAWING.



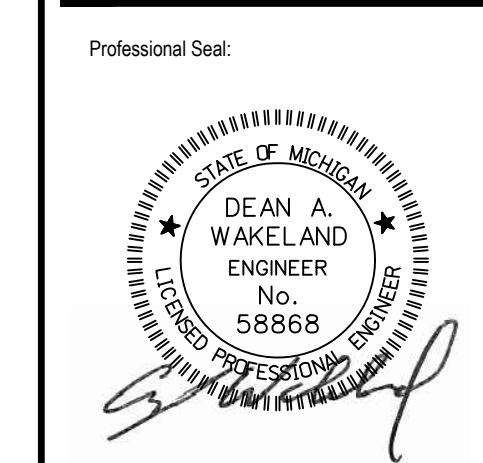
CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET ANN ARBOR, MI 48107-8647 734-754-6410 www.a2gov.org		REV. NO.	DATE	DRAWN BY	CHECKED BY
<b>SOLID WASTE STANDARD DETAILS</b>					
DR. OHM	CH. CJE	DATE 12/29/15		DRAWING NO. PAGE 2	



NOT TO BE USED AS CONSTRUCTION DRAWINGS

**giffels webster**  
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:	MP
Manager:	AW
Designer:	AW
Quality Control:	MP
Section:	25
T-2-S R-5-E	



**811**  
Know what's below.  
Call before you dig.

DATE:	ISSUE:
12.19.2016	REZONING
01.30.2019	SUBMITTAL
02.25.2019	OWNER REVIEW
02.28.2019	SUBMITTAL
08.22.2019	SUBMITTAL
12.06.2019	SUBMITTAL
01.27.2020	SUBMITTAL
02.28.2020	SUBMITTAL

Developed For:  
**ANN ARBOR BEST HOSPITALITY, INC.**  
31100 STEPHENSON HWY.  
MADISON HEIGHTS, MI 48071  
(248) 281-4168

**SITE DETAILS**  
2800 JACKSON AVENUE  
HOTELS  
CITY OF ANN ARBOR  
WASHTENAW COUNTY  
MICHIGAN

Date:	08.29.2018
Scale:	AS NOTED
Sheet:	11
Project:	19452.00

OUTLET CONTROL SIZING CALCULATIONS  
NOT TO SCALE

Table with columns for Q<sub>(1)</sub>, H<sub>(w)</sub>, A<sub>(1)</sub>, and detention time. Includes calculations for 12.879/24x3600, 2/3(ELEV<sub>(1)</sub>-ELEV<sub>(out)</sub>)/0.67, and A<sub>(1)</sub> = Q<sub>(1)</sub> / (0.62 [2x32.2x1.51]<sup>1/2</sup>).

Table with columns for H<sub>(w)</sub>, Q, T, and detention time. Includes calculations for H<sub>(w)</sub> = 2/3(ELEV<sub>(1)</sub>-ELEV<sub>(out)</sub>)/0.67, Q = A<sub>(1)</sub>(0.62 [(2GH)]<sup>1/2</sup>), and T = V<sub>det</sub>/Q.

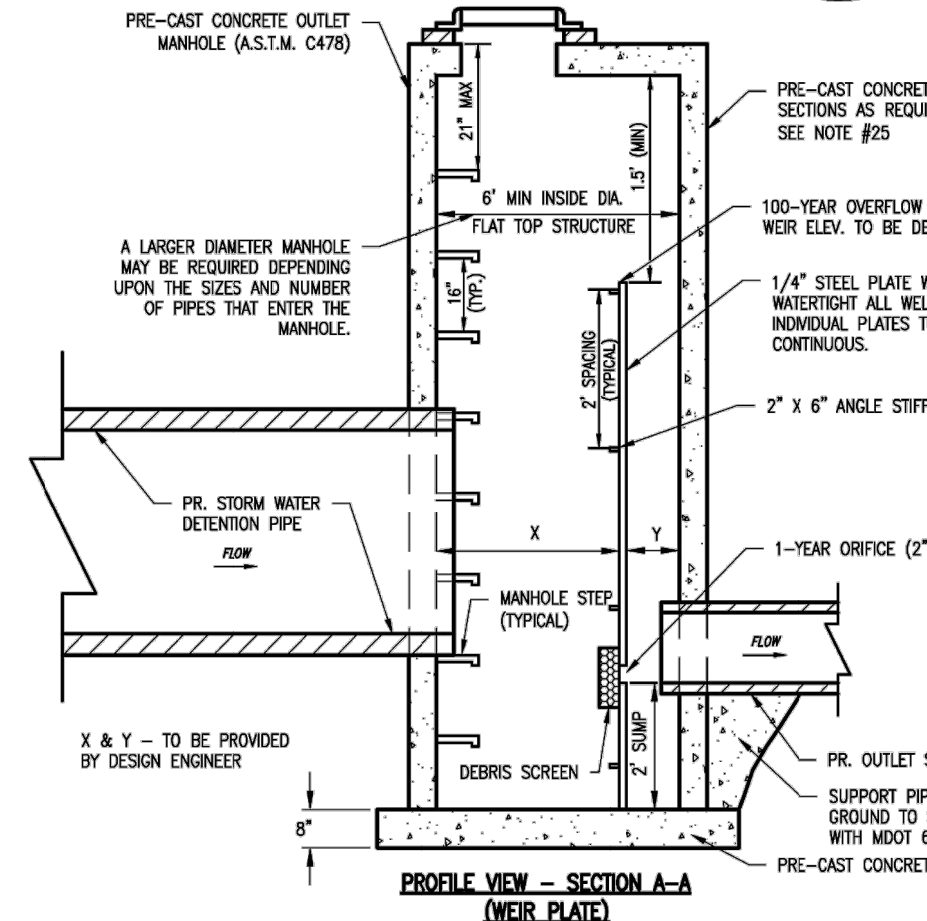
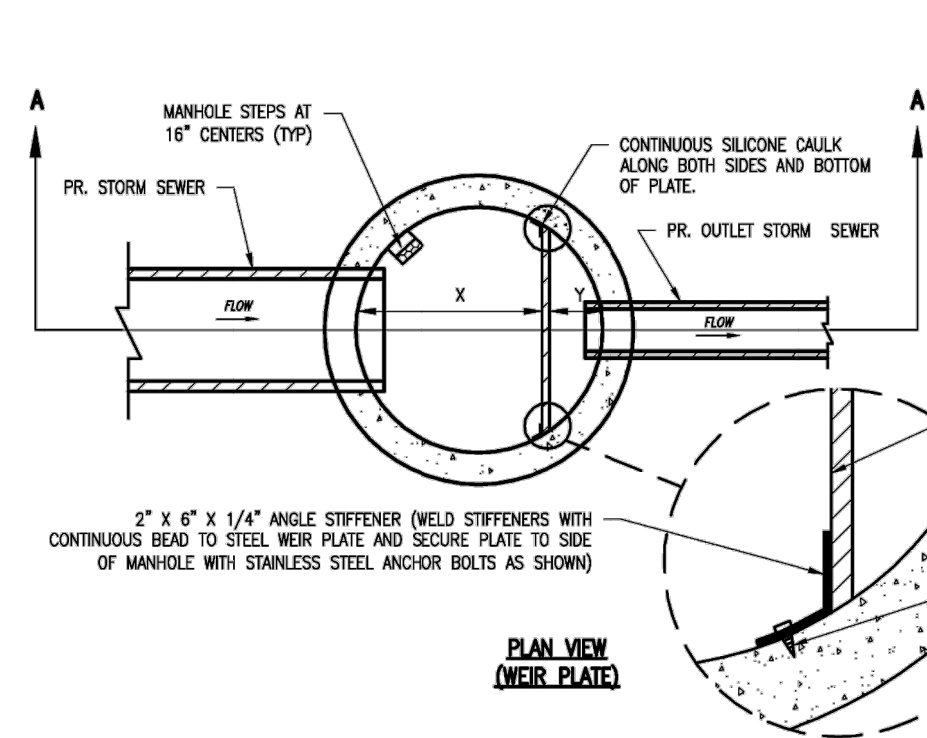
Time is less than 48 hrs therefore no additional holes are necessary

Table for 100 YR FLOOD. Columns: Allowable Outflow, Q<sub>(a)</sub>, High Water Level Elevation, HWL.

Table for determining flow from 4 holes at invert elevation = 929. Columns: H<sub>(w)</sub>, Q<sub>(100yr)</sub>.

Table for determining number of holes needed at bankfull elevation to allow remainder of outflow. Columns: Q<sub>(100yr)</sub>, Q<sub>(100yr)</sub>.

Table for find H between HWL and bankfull elevation. Columns: H<sub>(w)</sub>, A, Q<sub>(a)</sub>, T<sub>100</sub>, Total Time.



FIRST FLUSH SIZING CALCULATIONS  
NOT TO SCALE

Project: Ann Arbor Hospitality  
Location: Ann Arbor, MI  
Prepared For: Giffels Webster

Purpose: To calculate the first flush runoff flow rate (WQF) over a given site area. In this situation the WQV to be analyzed is the runoff produced by the first 1\"/>

Table with columns: Structure Name, A (acres), A (miles<sup>2</sup>), Runoff Coefficient, Percent imp. (%), t<sub>c</sub> (min), t<sub>c</sub> (hr). Includes WQU and 0 values.

Assumes runoff coefficient of 0.3 for pervious areas and 0.9 for impervious areas.

Procedure: The Water Quality Flow (WQF) is calculated using the Water Quality Volume (WQV). This WQV, converted to watershed inches, is substituted for the runoff depth (Q) in the Natural Resources Conservation Service (formerly Soil Conservation Service), TR-55 Gr

1. Compute WQV in watershed inches using the following equation:  
WQV = P \* R  
where: WQV = water quality volume (watershed inches)  
P = design precipitation (inches)  
R = volumetric runoff coefficient = 0.05 + 0.009(I)  
I = percent impervious cover

Table with columns: Structure Name, Percent Imp. (%), R, P (in), WQV (in), WQV (CF). Includes WQU and 0 values.

2. Compute the NRCS Runoff Curve Number (CN) using the following equation, or graphically using Figure 2-1 from TR-55 (USDA, 1986):  
CN = 1000 / [10+5P+10Q+10(Q<sup>2</sup>+1.25QP)<sup>1/2</sup>]

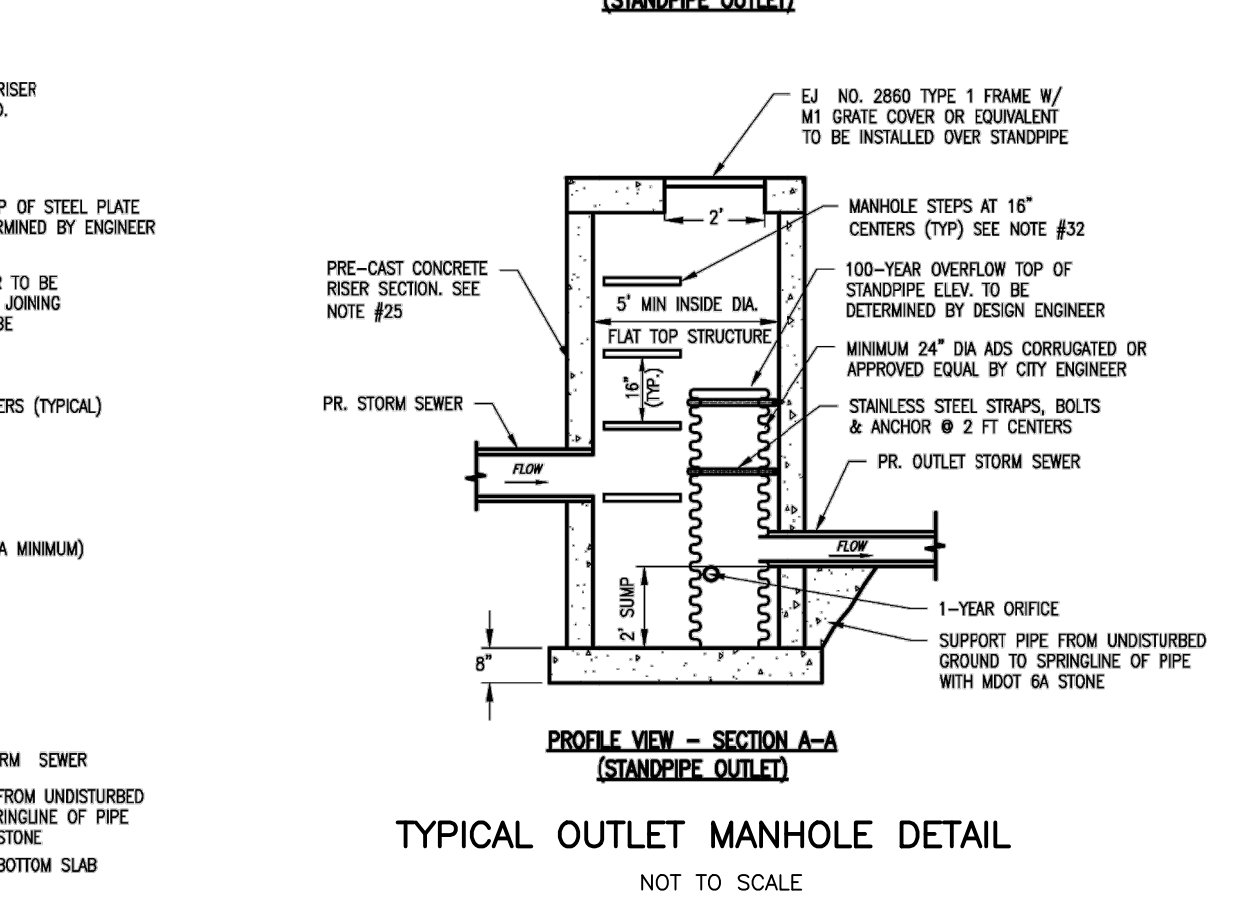
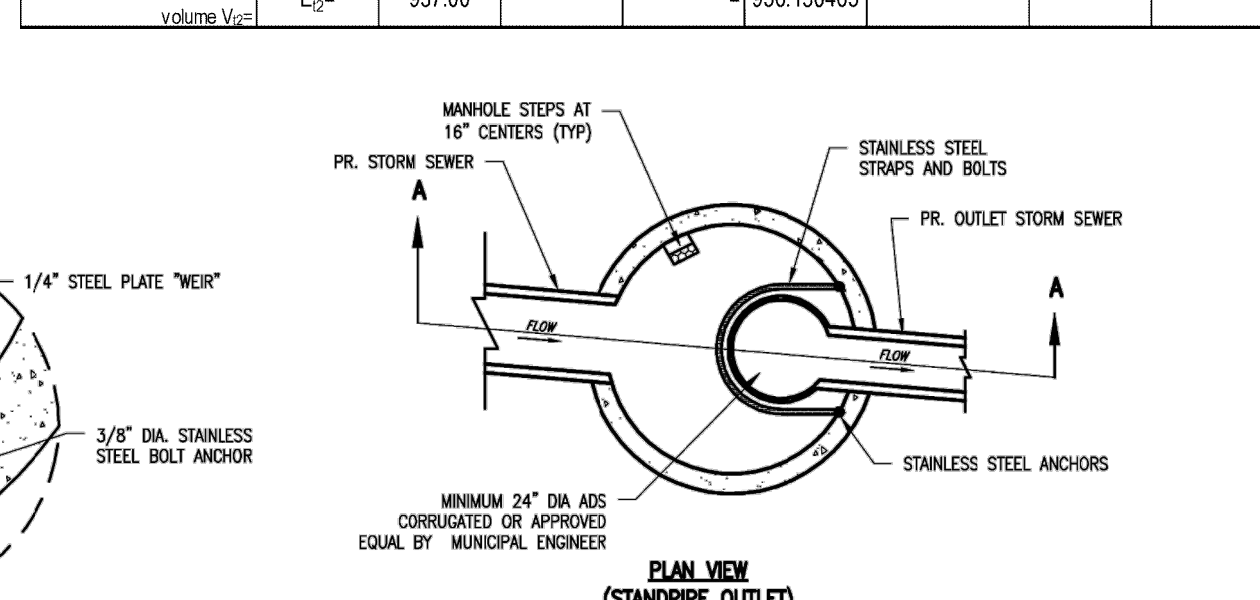
Table with columns: Structure Name, Q (in), CN. Includes WQU and 0 values.

OUTLET CONTROL ORIFICE ELEVATION CALCULATIONS

Table for First Flush Elevation Calculation. Columns: V<sub>det</sub>, V<sub>1st</sub>, V<sub>2nd</sub>, E<sub>1st</sub>, E<sub>2nd</sub>.

Table for Bankfull Storage Elevation Calculation. Columns: V<sub>det</sub>, V<sub>det</sub>, V<sub>1st</sub>, V<sub>2nd</sub>, E<sub>1st</sub>, E<sub>2nd</sub>.

Table for Total Storage Elevation Calculation. Columns: V<sub>det</sub>, V<sub>det</sub>, V<sub>1st</sub>, V<sub>2nd</sub>, E<sub>1st</sub>, E<sub>2nd</sub>.



3. Using computed CN, read initial abstraction (I<sub>a</sub>) from Table 4-1 in Chapter 4 of TR-55; compute I<sub>a</sub>/P, interpolating when appropriate.

Table with columns: Structure Name, I<sub>a</sub> (in), I<sub>a</sub>/P. Includes WQU and 0 values.

4. Compute the time of concentration (t<sub>c</sub>) in hours and the drainage area in square miles. A minimum t<sub>c</sub> of 0.167 hours (10 minutes) should be used.

Table with columns: Structure Name, t<sub>c</sub> (hr), A (miles<sup>2</sup>). Includes WQU and 0 values.

5. Read the unit peak discharge (q<sub>u</sub>) from Exhibit 4-1 in Chapter 4 of TR-55 for appropriate t<sub>c</sub> for type II rainfall distribution.

Table with columns: Structure Name, t<sub>c</sub> (hr), I<sub>a</sub>/P, q<sub>u</sub> (csm/in). Includes WQU and 0 values.

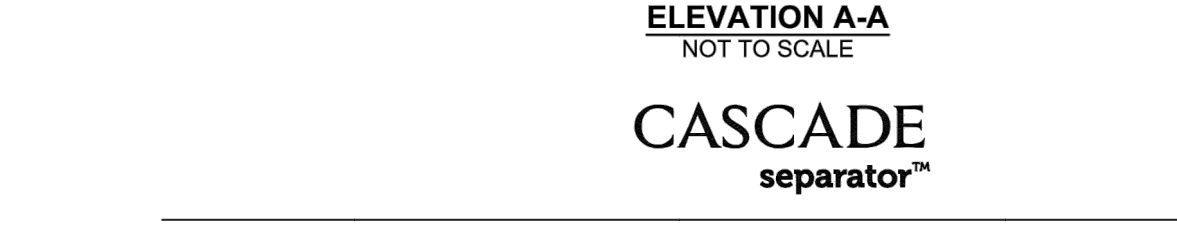
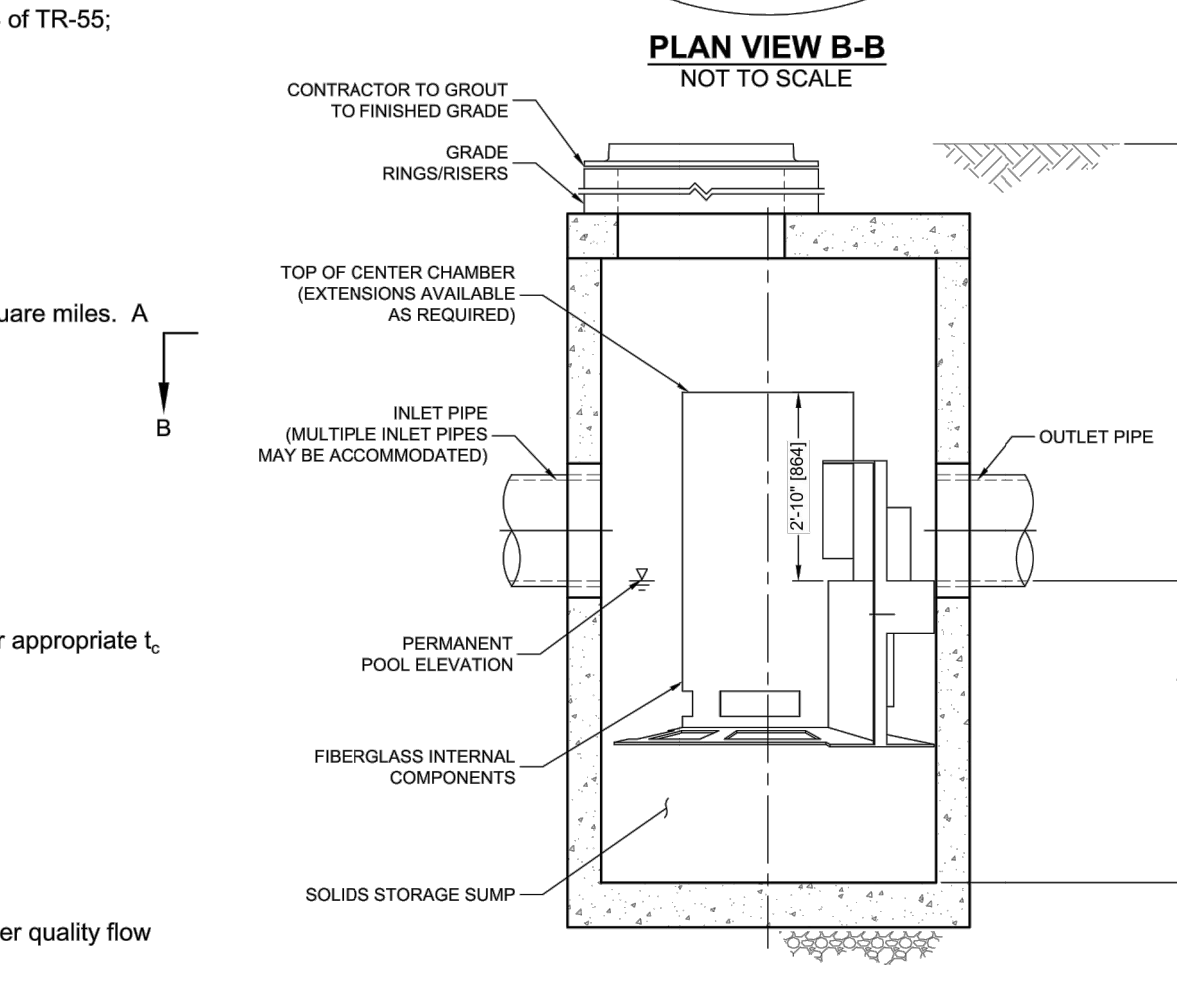
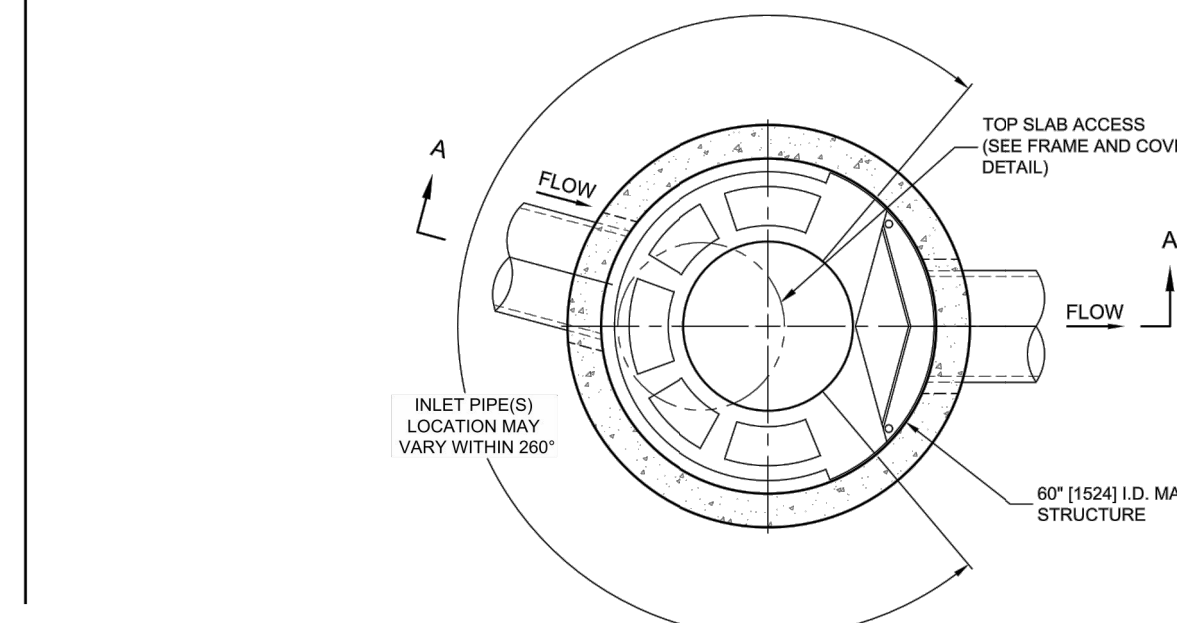
6. Substituting WQV (watershed inches) for runoff depth (Q), compute the water quality flow (WQF) from the following equation:  
WQF = (q<sub>u</sub>)(A)<sup>0.77</sup>

where: WQF = water quality flow (cfs)  
q<sub>u</sub> = unit peak discharge (csm<sup>2</sup>/in)  
A = drainage area (mi<sup>2</sup>)  
Q = runoff depth (watershed inches)

Table with columns: Structure Name, q<sub>u</sub> (csm/in), A (miles<sup>2</sup>), Q (in), WQF (cfs). Includes WQU and 0 values.

ELEVATION-STORAGE VOLUME TABLE

Table with columns: Elevation, Incremental Volume (cft), Cumulative Volume (cft). Lists elevations from 928 to 932 and corresponding volumes.



CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

Table for CONFIGURATION DESCRIPTION. Columns: Description, Peak Flow Rate (cfs LxL), Return Period of Peak Flow (yrs), RM Elevation.

Table for SITE SPECIFIC DATA REQUIREMENTS. Columns: Structure ID, Water Quality Flow Rate (cfs LxL), Peak Flow Rate (cfs LxL), Return Period of Peak Flow (yrs), RM Elevation.

GENERAL NOTES:  
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.  
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE...  
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING...  
4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF σ = 2' @10', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION...  
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.  
6. ALTERNATE UNITS ARE SHOWN (N= MILLIMETERS (mm)).

INSTALLATION NOTES:  
A. ANY SUB-BASE, BACKFILL, DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.  
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE.  
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.  
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

giffels webster  
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: MP  
Manager: AW  
Designer: AW  
Quality Control: MP  
Section: 25  
T-2-S R-5-E

Professional Seal:



Table with columns: DATE, ISSUE. Lists dates from 12.19.2016 to 02.28.2020 and corresponding issues like REZONING, SUBMITTAL, OWNER REVIEW.

Developed For:

ANN ARBOR BEST HOSPITALITY, INC.  
31100 STEPHENSON HWY.  
MADISON HEIGHTS, MI 48071  
(248) 281-4168

STORM WATER DETAILS

2800 JACKSON AVENUE HOTELS

CITY OF ANN ARBOR  
WASHTENAW COUNTY  
MICHIGAN

Date: 08.29.2018  
Scale: 12  
Project: 19452.00

MECHANICAL FOREBAY TSS CALCULATIONS

Table with columns: AREA, WEIGHTED C, TC, CASCADE MODEL, PARTICLE SIZE, RAINFALL STATION.

Table for TSS calculations. Columns: Rainfall Intensity (in/hr), Percent Rainfall Volume, Cumulative Rainfall Volume, % Rainfall Volume Treated, Total Flowrate (cfs), Removal Efficiency (%), Incremental Removal (%).

Removal Efficiency Adjustment = 6.5%  
Predicted % Annual Rainfall Treated = 92.6%  
Predicted Net Annual Load Removal Efficiency = 85.7%

1 - Based on 5.5 years of 15 minute precipitation data from NCDC station 2102 at Detroit City Airport in Detroit, MI  
2 - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

Table for ASSEMBLY SCALE: 1\"/>

NOTES:  
• ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.  
• ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.  
• ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A986.  
• ALL RISERS AND STUBS ARE 24\"/>

UNDERGROUND DETENTION DETAIL  
NOT TO SCALE

CONTECH ENGINEERED SOLUTIONS LLC  
CONTECH CMP DETENTION SYSTEMS

Table with columns: PROJECT NO., REV. NO., DATE, REVISION DESCRIPTION.

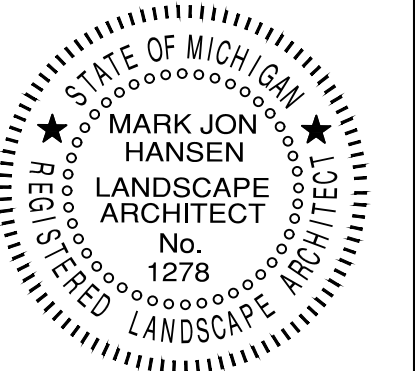
102\"/>

ANN ARBOR BEST HOSPITALITY  
ANN ARBOR, MI  
SITE DESIGNATION:

NOT TO BE USED AS CONSTRUCTION DRAWINGS

Executive:	MP
Manager:	AW
Designer:	AW
Quality Control:	MP
Section:	25
	T-2-S R-5-E

Professional Seal:



Know what's below.  
Call before you dig.

DATE:	ISSUE:
02.25.2019	OWNER REVIEW
02.28.2019	SUBMITTAL
08.22.2019	SUBMITTAL
12.06.2019	SUBMITTAL
01.27.2020	SUBMITTAL
02.28.2020	SUBMITTAL
04.01.2020	INTERIM SUBMITTAL
04.07.2020	REVISED L1 SUBMITTAL

Developed For:

**ANN ARBOR BEST HOSPITALITY, INC.**

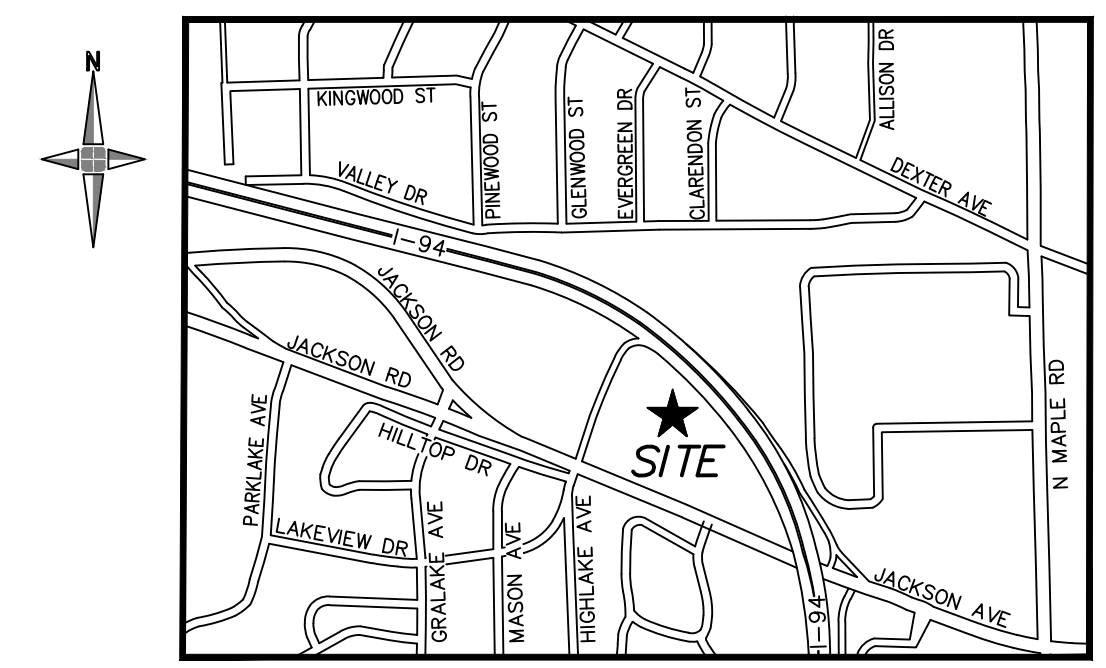
31100 STEPHENSON HWY.  
MADISON HEIGHTS, MI 48071  
(248) 281-4168

**LANDSCAPE PLAN**

2800 JACKSON AVENUE  
HOTELS

CITY OF ANN ARBOR  
WASHTENAW COUNTY  
MICHIGAN

Date:	08.29.2018
Scale:	1"=30'
Sheet:	L1
Project:	19452.00



LOCATION MAP  
( NOT TO SCALE )

**LANDSCAPING & SCREENING CALCULATIONS:**

RIGHT-OF-WAY ON JACKSON AVENUE	REQUIRED:	PROVIDED:
1, TREE PER 30 L.F. 146.1 / 30 =	5 TREES	146.1' BUFFER
1, 30" HT. SHRUB PER 4 L.F. 146.1 / 4 =	37 SHRUBS	5 TREES
		37 SHRUBS
RIGHT-OF-WAY ON I-94 HIGHWAY	REQUIRED:	PROVIDED:
1, TREE PER 30 L.F. 312 / 30 =	312' BUFFER	312' BUFFER
1, 30" HT. SHRUB PER 4 L.F. 312 / 4 =	11 TREES	11 TREES
	78 SHRUBS	78 SHRUBS
RIGHT-OF-WAY ON HIGHWAY RAMP	REQUIRED:	PROVIDED:
1, TREE PER 30 L.F. 44 / 30 =	44' BUFFER	44' BUFFER
1, 30" HT. SHRUB PER 4 L.F. 44 / 4 =	2 TREES	2 TREES
	11 SHRUBS	11 SHRUBS
STREET TREE CALCULATIONS	REQUIRED:	PROVIDED:
1, TREE PER 45 L.F. 264 / 45 =	6 TREES	2 TREES EXISTING
		4 TREES PROPOSED
		6 TREES PROVIDED
PROPOSED PAVED AREA = 88,405 SQ.FT.		
INTERIOR LANDSCAPING (88,405 SQ.FT. VEHICLE USE AREA)		7,585 SQ.FT.
88,405 SQ.FT. x 1.15 = 5,894		5,894 SQ.FT.
PROPOSED TREES	24 TREES	24 TREES
5,894 / 250 = 24 TREES		
TOTAL REQUIRED INTERIOR LANDSCAPE	2,947	3,185
AREA BIO SWALE	2,947 SQ.FT.	3,185 SQ.FT.
5,894 SQ.FT. x 50% = 2,947		

**INTERIOR LANDSCAPE PLANT LIST:**

NO.	COMMON NAME	BOTANICAL NAME	SIZE	SYMBOL
2	RED BUD	CERCIS CANADENSIS	3" CAL. B&B	RB
8	SKYLINE LOCUST	GLIEDITSIA T. INERMIS 'SKYCOLE'	3" CAL. B&B	LO
7	DAWN REDWOOD	METASEQUOIA GLYPTOSTROBODES	8" HT. B&B	DW
2	ROBIN HILL SERVICEBERRY	AMELANCHIER X 'ROBIN HILL'	3" CAL. B&B	SB
5	RED OAK	QUERCUS RUBRA	3" CAL. B&B	RO

**R.O.W. BUFFER PLANT LIST:**

NO.	COMMON NAME	BOTANICAL NAME	SIZE	SYMBOL
33	BLUE DANUBE JUNIPER	JUNIPERUS S. 'BLUE DANUBE'	3 GAL. POT	JUN
4	HONEY ROSE HONEYSUCKLE	LONICERA KOROLKOWII 'HONEY ROSE'	3 GAL. POT	LOC
11	CENTER GLOW NINEBARK	PHYSCARPUS OPULIFOLIUS	5 GAL. POT	NN
78	SHASTA DOUBLEFILE VIBURNUM	VIBURNUM P.T. 'SHASTA'	5 GAL. POT	SBV

NO.	COMMON NAME	BOTANICAL NAME	SIZE	SYMBOL
4	RED MAPLE	ACER RUBRUM 'OCTOBER GLORY'	3" CAL. B&B	RM
14	WHITE SPRUCE	PICEA GLAUCA	8" HT. B&B	CS

**REFUSE / TRANSFORMER SCREEN PLANTS:**

NO.	COMMON NAME	BOTANICAL NAME	SIZE	SYMBOL
15	SKYROCKET JUNIPER	JUNIPERUS S. 'SKYROCKET'	4-5" HT.	JUN
20	MUGO PINE	PINUS MUGO PUMILO	2" WIDE / HT.	DMP
17	BLUE NOOTKA CYPRESS	CHAMAECYPARIS NOOTKATENSIS 'GLAUCA'	2" WIDE / HT.	CYP

**PUBLIC STREET TREES PLANT LIST:**

NO.	COMMON NAME	BOTANICAL NAME	SIZE	SYMBOL
4	JAPANESE LILAC TREE	SYRINGA RETICULATA SUBSP. RETICULATA	3" CAL. B&B	JUN

**STREET TREE ESCROW CALCULATIONS:**

\$1.30 PER LF OF STREET FRONTAGE 264 LF X \$1.30 = \$343.20 STREET TREE ESCROW AMOUNT

**CANOPY LOSS FEE CALCULATIONS:**

TOTAL CALIPER IN. OF STREET TREES REMOVED - TOTAL CALIPER IN. OF STREET TREES PROPOSED X \$194  
24 IN. REMOVED - 12 IN. PROPOSED X \$194 = \$2,328.00 CANOPY LOSS FEE

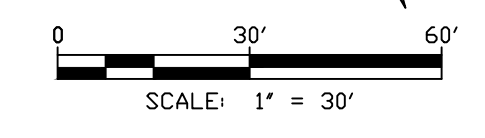
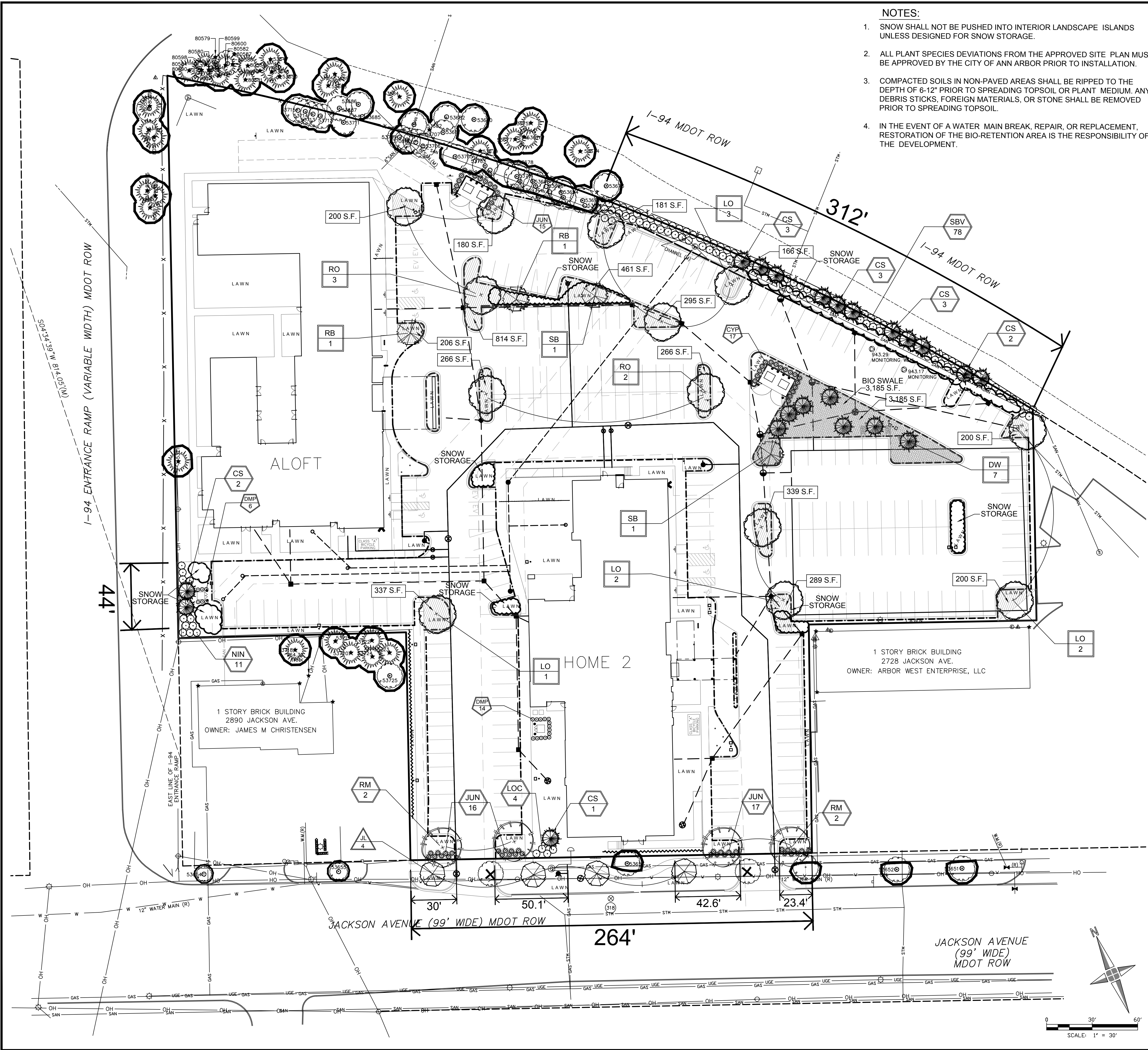
**LEGEND:**

- LIMITS OF GRADING LINE - [Symbol]
- SNOW FENCE - [Symbol]
- 10' MINIMUM CRITICAL ROOT ZONE - (ALL REGULATED TREES) [Symbol]
- VEHICULAR USE AREA PERIMETER - [Symbol]
- PUBLIC STREET TREE REMOVED (ALL REGULATED TREES) [Symbol]
- INTERIOR LANDSCAPE ISLANDS - [Symbol]
- BIO SWALE AREA - [Symbol]

**CRITERIA FOR LANDMARK TREES IN THE CITY OF ANN ARBOR:**

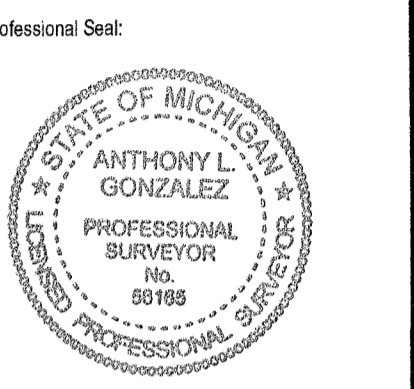
12" CHERRY; 16" HICKORY, LOCUST, MAPLE, & OAK;  
8" CEDAR; 18" ELM, PINE, SPRUCE, & WALNUT.

- NOTES:**
- SNOW SHALL NOT BE PUSHED INTO INTERIOR LANDSCAPE ISLANDS UNLESS DESIGNED FOR SNOW STORAGE.
  - ALL PLANT SPECIES DEVIATIONS FROM THE APPROVED SITE PLAN MUST BE APPROVED BY THE CITY OF ANN ARBOR PRIOR TO INSTALLATION.
  - COMPACTED SOILS IN NON-PAVED AREAS SHALL BE RIPPED TO THE DEPTH OF 6-12" PRIOR TO SPREADING TOPSOIL OR PLANT MEDIUM. ANY DEBRIS STICKS, FOREIGN MATERIALS, OR STONE SHALL BE REMOVED PRIOR TO SPREADING TOPSOIL.
  - IN THE EVENT OF A WATER MAIN BREAK, REPAIR, OR REPLACEMENT, RESTORATION OF THE BIO-RETENTION AREA IS THE RESPONSIBILITY OF THE DEVELOPMENT.



NOT TO BE USED AS  
CONSTRUCTION DRAWINGS



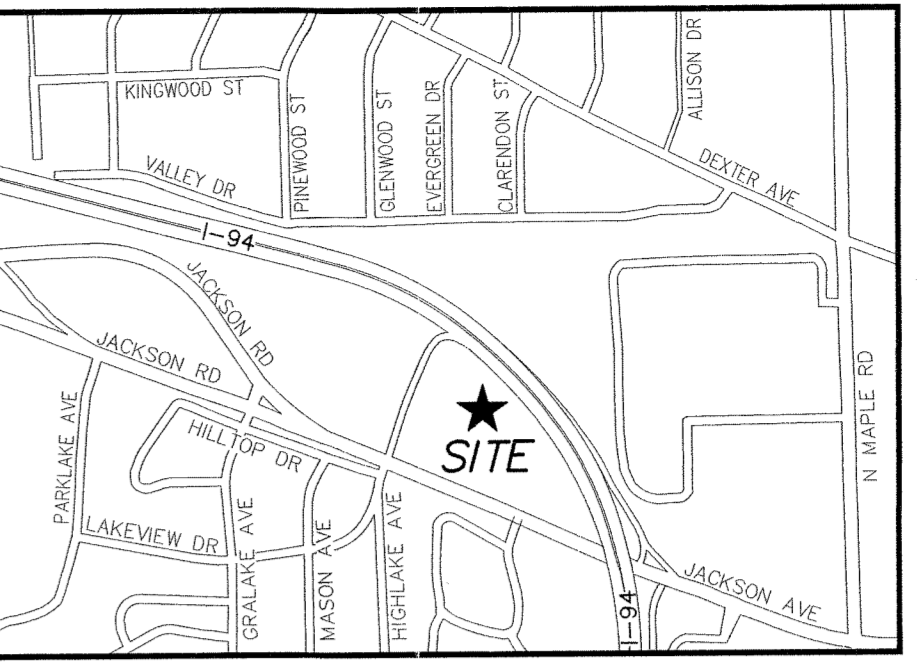


DATE	ISSUE
2.18.19	UPDATED TO ALTA/NSPS SURVEY
01.27.20	ADDED RECORD SEWER EASEMENT
02.28.20	ADDED RECORD SEWER EASEMENT ON ADJACENT PARCEL

**ALTA/NSPS LAND TITLE & TOPOGRAPHIC SURVEY**

2800 JACKSON AVE

CITY OF ANN ARBOR  
WASHTENAW COUNTY  
MICHIGAN



LOCATION MAP  
(NOT TO SCALE)

**PROPERTY DESCRIPTION**

(PER TITLE COMMITMENT NO. 0-0000387644432, PREPARED BY STEWART TITLE GUARANTY COMPANY, DATED FEBRUARY 21, 2017)  
COMMENCING AT THE NORTHEAST CORNER OF SECTION 25, T2S, R5E, S100 TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE ALONG THE NORTH LINE OF SECTION 25, SOUTH 88°53' WEST 1897.96 FEET; THENCE SOUTH 4°41' WEST 813.49 FEET TO A POINT ON THE EAST LINE OF AN I-94 EXPRESSWAY RAMP; THENCE ALONG THE EAST LINE, NORTH 22°11' EAST 79.53 FEET FOR A PLACE OF BEGINNING; THENCE CONTINUING NORTH 22°11' EAST 370.91 FEET; THENCE ALONG THE SOUTHWESTERLY LINE OF THE I-94 RIGHT OF WAY 614.6 FEET IN THE ARC OF A CIRCULAR CURVE CONCAVE TO THE SOUTHWEST, RADIUS 1713.57 FEET, CHORD SOUTH 45°36'10" EAST 611.23 FEET; THENCE SOUTH 22°18' WEST 139.38 FEET; NORTH 67°44' WEST 150.0 FEET; THENCE SOUTH 22°18' WEST 150.0 FEET; THENCE NORTH 67°44' WEST 265.0 FEET; THENCE NORTH 22°11' EAST 150.17 FEET; THENCE NORTH 68°12' WEST 150.0 FEET TO THE PLACE OF BEGINNING; BEING PART OF THE NORTHEAST 1/4 OF SECTION 25, T2S, R5E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN.

**PROPERTY DESCRIPTION**

(AS FIELD SURVEYED)  
PART OF THE NORTHEAST 1/4 OF SECTION 25, TOWN 2 SOUTH, RANGE 5 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT SAID NORTHEAST CORNER OF SECTION 25, THENCE SOUTH 88 DEGREES 36 MINUTES 43 SECONDS WEST, 1893.83 FEET; THENCE SOUTH 04 DEGREES 34 MINUTES 39 SECONDS WEST, 814.05 FEET; THENCE NORTH 21 DEGREES 52 MINUTES 43 SECONDS EAST, 79.53 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 21 DEGREES 52 MINUTES 43 SECONDS EAST, 370.61 FEET TO A POINT ON THE SOUTHWESTERLY RIGHT OF WAY LINE OF THE I-94 EXPRESSWAY; THENCE ALONG SAID SOUTHWESTERLY RIGHT OF WAY LINE ALONG A NON-TANGENT CURVE TO THE RIGHT 614.23 FEET, SAID CURVE HAVING A RADIUS OF 1713.57 FEET, A CENTRAL ANGLE OF 20 DEGREES 32 MINUTES 15 SECONDS AND A CHORD BEARING SOUTH 45 DEGREES 54 MINUTES 16 SECONDS EAST, 610.94 FEET; THENCE SOUTH 21 DEGREES 59 MINUTES 43 SECONDS WEST, 139.95 FEET; THENCE NORTH 68 DEGREES 02 MINUTES 17 SECONDS WEST 150.00 FEET; THENCE SOUTH 22 DEGREES 11 MINUTES 29 SECONDS WEST 150.48 FEET; THENCE NORTH 68 DEGREES 02 MINUTES 17 SECONDS WEST 264.40 FEET; THENCE NORTH 21 DEGREES 52 MINUTES 43 SECONDS E 150.17 FEET; THENCE NORTH 68 DEGREES 30 MINUTES 17 SECONDS WEST 150.00 FEET TO THE POINT OF BEGINNING.

**SCHEDULE B - II. EXCEPTIONS:**

(PER TITLE COMMITMENT NO. 0-0000387644432, PREPARED BY STEWART TITLE GUARANTY COMPANY, DATED FEBRUARY 21, 2017)  
ITEM 2. - SUBJECT TO EASEMENT FOR PUBLIC UTILITIES IN FAVOR OF CITY OF ANN ARBOR, AS RECORDED IN LIBER 2049, PAGE 190, WASHTENAW COUNTY RECORDS. (SHOWN ON SURVEY)  
ITEM 3. - SUBJECT TO EASEMENT IN FAVOR OF MICHIGAN BELL TELEPHONE COMPANY, AS RECORDED IN LIBER 2050, PAGE 371, WASHTENAW COUNTY RECORDS. (SHOWN ON SURVEY)  
ITEM 4. - SUBJECT TO EASEMENT IN FAVOR OF MICHIGAN BELL TELEPHONE COMPANY DBA SBC MICHIGAN, AS RECORDED IN LIBER 4526, PAGE 755, WASHTENAW COUNTY RECORDS. (SHOWN ON SURVEY)

**CERTIFICATION**

TO:  
ANN ARBOR BEST HOSPITALITY, INC., A MICHIGAN CORPORATION  
ABSOLUTE TITLE, INC. AS AUTHORIZED AGENT FOR STEWART TITLE GUARANTY COMPANY.  
STEWART TITLE GUARANTY COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES NO TABLE A ITEMS THEREOF. THE FIELDWORK WAS COMPLETED ON FEBRUARY 13, 2019.

DATE OF PLAT OR MAP: JULY 2, 2018.

*ALG*

ANTHONY L. GONZALEZ, MICHIGAN P.S. NO. 56165

**BENCH MARK DATA**

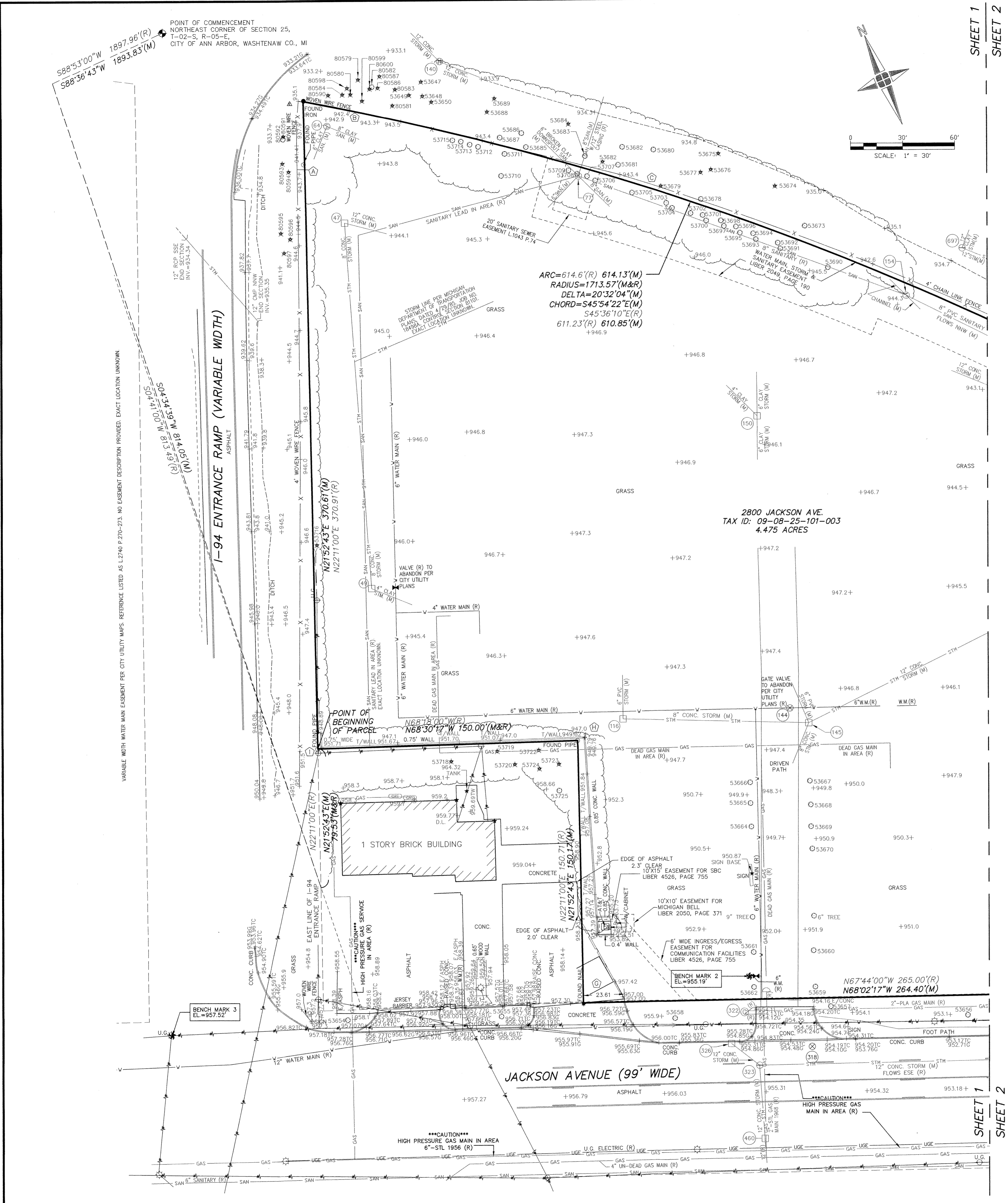
(CITY OF ANN ARBOR NAVD88) DATUM  
SITE BENCH MARK NO. 1  
CHISELED "X" ON TOP OF A NORTH-SIDE LIGHT POLE'S CONCRETE BASE, LOCATED ON THE NORTHWEST CORNER OF THE PARKING LOT FOR BUILDING NO. 2740.  
ELEVATION: 946.65'  
(SHOWN GRAPHICALLY)  
SITE BENCH MARK NO. 2  
ARROW ON HYDRANT (2009). LOCATED ON THE NORTHWEST CORNER OF THE DRIVEWAY APPROACH FOR ADDRESS 2800 JACKSON AVENUE, PLUS OR MINUS 300 FEET EAST OF I-94 ENTRANCE RAMP.  
ELEVATION: 955.19'  
(SHOWN GRAPHICALLY)  
SITE BENCH MARK NO. 3  
MAG. NAIL ON THE SOUTHERLY FACE OF A LIGHT POLE, LOCATED ON THE NORTHWEST CORNER OF JACKSON AVENUE AND THE I-94 EAST ENTRANCE RAMP.  
ELEVATION: 957.52'  
(SHOWN GRAPHICALLY)

**NOTES:**

- TELEPHONE, CABLE TV, STEAM, PUBLIC LIGHTING, AND UTILITY MAPS WERE NOT AVAILABLE AT TIME OF SURVEY.
- TREE SIZES AND SPECIES ARE THE BEST ESTIMATION OF THE FIELD SURVEYOR. SPECIFIC QUESTIONS REGARDING INDIVIDUAL TREES SHOULD BE DIRECTED TO A QUALIFIED FORESTER.
- THE BASIS OF BEARING FOR THE PROPERTY DESCRIPTION OVERALL PARCEL AS FIELD SURVEYED IS BASED ON STATE PLANE COORDINATE SYSTEM NAD83 MICHIGAN SOUTH ZONE.
- SEE SHEET 2 FOR STRUCTURE OF STRUCTURES.
- AN AS-FIELD SURVEY DESCRIPTION WAS PROVIDED DUE TO THE CONFLICTS OF MEASURED DISTANCES VERSUS RECORD DIMENSIONS. THE AS-FIELD SURVEY DESCRIPTION COVERS THE SAME LAND DESCRIBED IN THE TITLE COMMITMENT.

**TABLE OF ENCROACHMENTS**

A	4' WOVEN WIRE FENCE, 5.8' WEST OF LINE
B	4' WOVEN WIRE FENCE, 0.4' NORTH OF LINE
C	4' WOVEN WIRE FENCE, 2.3' NORTH OF LINE
D	4' WOVEN WIRE FENCE, 3.0' NORTH OF LINE
E	4' WOVEN WIRE FENCE, 1.5' NORTH OF LINE
F	CONCRETE CURB IS 0.4' WEST OF LINE
G	ASPHALT DRIVE IS 23.6' WEST OF LINE
H	8" WIDE WALL IS 1.3' NORTH OF LINE & 3.9' EAST OF LINE AT CORNER
I	8" WIDE WALL IS 0.2' NORTH OF LINE & 1.7' EAST OF LINE AT CORNER



2800 JACKSON AVE.  
TAX ID: 09-08-25-101-003  
4.475 ACRES

ARC=614.6'(R) 614.13'(M)  
RADIUS=1713.57'(M&R)  
DELTA=20°32'04\"(M)  
CHORD=S45°54'22\"(M)  
S45°36'10\"(E)(R)  
611.23'(R) 610.85'(M)

I-94 ENTRANCE RAMP (VARIABLE WIDTH)

POINT OF BEGINNING OF PARCEL

1 STORY BRICK BUILDING

JACKSON AVENUE (99' WIDE)

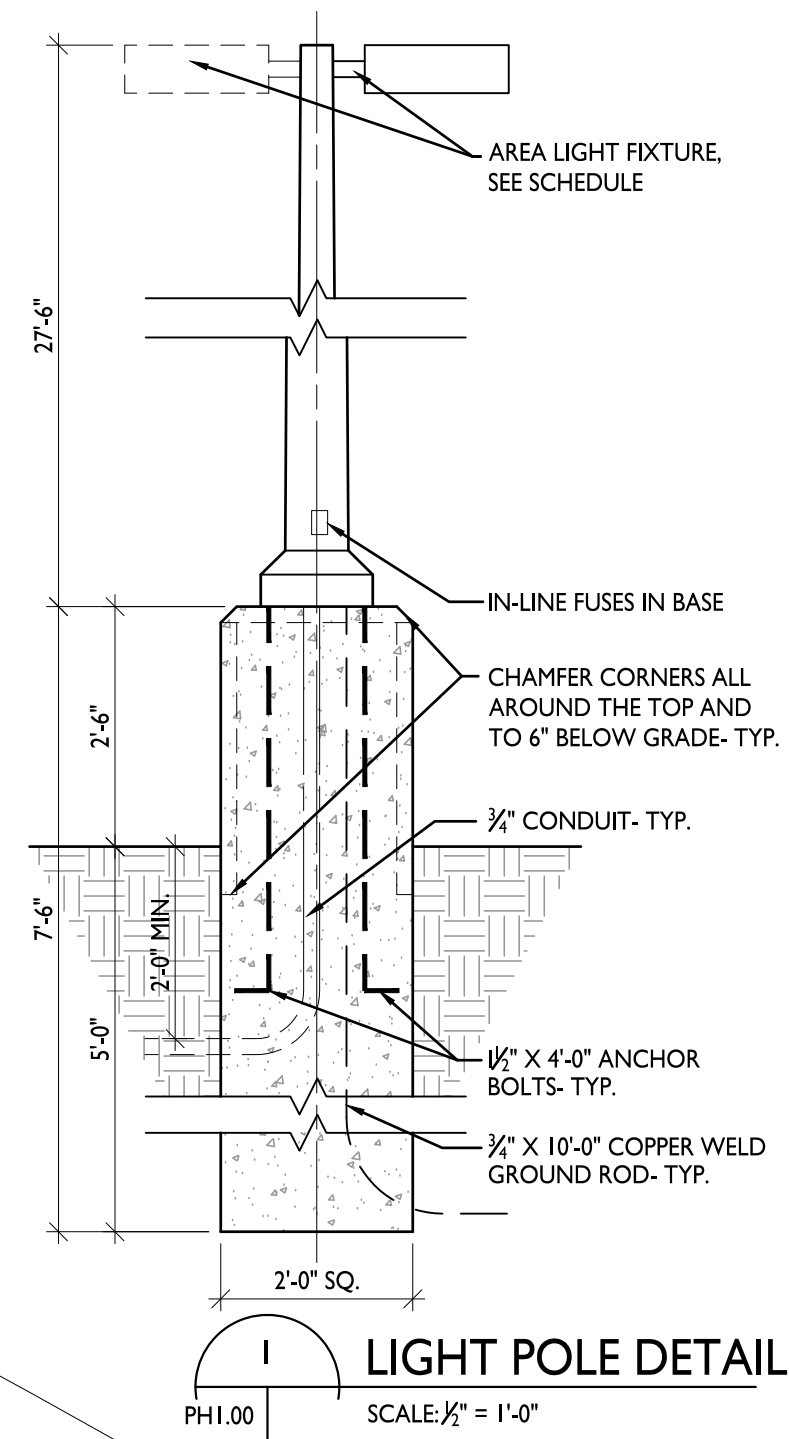
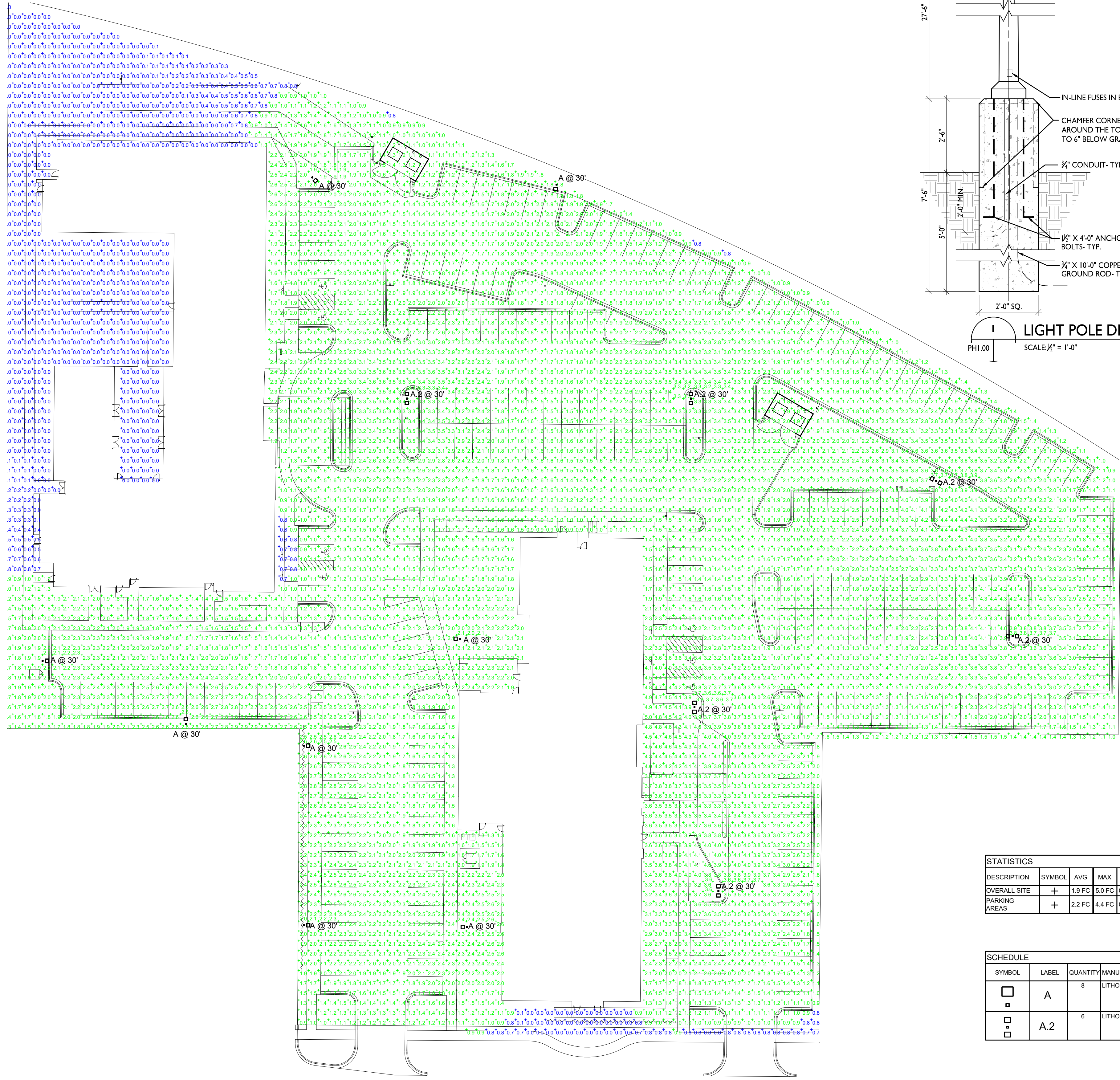
HIGH PRESSURE GAS MAIN IN AREA

HIGH PRESSURE GAS MAIN IN AREA

SHEET 1  
SHEET 2







### D-Series Size 1 LED Area Luminaire

**Specifications**

EPA: 1,01 ft<sup>2</sup> (94m<sup>2</sup>)  
 Length: 33" (838mm)  
 Width: 13" (330mm)  
 Height: 7-1/2" (191mm)  
 Weight (max): 22 lbs (10kg)

**Ordering Information**

**EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD**

Series	LEDs	Color temperature	Distribution	Voltage	Mounting	Shipped included
DSX1 LED	Forward optics P1 P4 P7 P2 P5 P8 P3 P6 P9	30K 3000K 40K 4000K 50K 5000K AMPCP Amber/phosphor converted	T1S Type I short T2S Type II short T3M Type III medium T4M Type IV medium TF1M Forward throw medium TVS Type V very short	TSS Type V short TSM Type V medium TSW Type V wide RCC Backlight control LECO Left corner cast <sup>1)</sup> RCO Right corner cast <sup>2)</sup>	MVOLT <sup>4)</sup> 120V <sup>1)</sup> 208V <sup>1)</sup> 240V <sup>1)</sup> 277V <sup>1)</sup> 347V <sup>1)</sup> 480V <sup>1)</sup>	Shipped separately SPA Squarepole mounting RPM Roundpole mounting WBA Wall bracket SPUMBA Squarepole universal mounting adaptor <sup>1)</sup> RPMBA Roundpole universal mounting adaptor <sup>1)</sup> KXMB DDBXD Mount arm mounting bracket adaptor (specify finish) <sup>1)</sup>

Control options	Other options	Finish options
<b>Shipped installed</b> HUBZY eight A/B generation 2 enabled <sup>1)</sup> PER NEMA two-lock receptacle only (controls ordered separately) <sup>1)</sup> PER Five-wire receptacle only (controls ordered separately) <sup>1)</sup> PER Seven-wire receptacle only (controls ordered separately) <sup>1)</sup> DMG 0-10V dimming extend out back of housing for external control (needs test fixture) DS Dual switching <sup>1)</sup> PR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5k, 15k, 30k PRB Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5k, 15k, 30k PRBN Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 15k, 30k PRIRFCV Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 15k, 30k	PRIRFCV Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 15k, 30k RL30 Bi-level switched dimming, 30k, 15k, 30k RL50 Bi-level switched dimming, 50k, 15k, 30k PNMFD3S Part night, dim 5 hrs, 15k PNMFD3S Part night, dim 6 hrs, 15k PNMFD3S Part night, dim 7 hrs, 15k FA0 Field adjustable output <sup>1)</sup>	<b>Shipped installed</b> DDBD Dark bronze DBD Black SF Single-face (120, 277, 347V) <sup>1)</sup> WBA Wall bracket DDBD Textured dark bronze DBD Textured black DDBD Textured natural aluminum R90 Left rotated optics <sup>1)</sup> R90 Right rotated optics <sup>1)</sup> <b>Shipped separately</b> ES End cap <sup>1)</sup> EES External glare shield <sup>1)</sup>

**LITHONIA LIGHTING** One Lithonia Way • Conyers, Georgia 30112 • Phone: 800.279.8041 • www.lithonia.com  
 © 2011-2018 Acuity Brands Lighting, Inc. All rights reserved. DSX1-LED Rev. 07/25/18 Page 1 of 7

**STATISTICS**

DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
OVERALL SITE	±	1.9 FC	5.0 FC	0.0 FC	N/A	N/A
PARKING AREAS	+	2.2 FC	4.4 FC	0.9 FC	4.8:1	2.4:1

**SCHEDULE**

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	NUMBER LAMPS	FILENAME	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE
□	A	8	LITHONIA LIGHTING	DSX1 LED P7 30K TSM MVOLT	DSX1 LED P7 30K TSM MVOLT	LED	1	DSX1_LED_P7_30K_TSM_MVOLT.IES	19982	1	163
□	A.2	6	LITHONIA LIGHTING	DSX1 LED P7 30K TSM MVOLT	DSX1 LED P7 30K TSM MVOLT	LED	1	DSX1_LED_P7_30K_TSM_MVOLT.IES	19982	1	366

