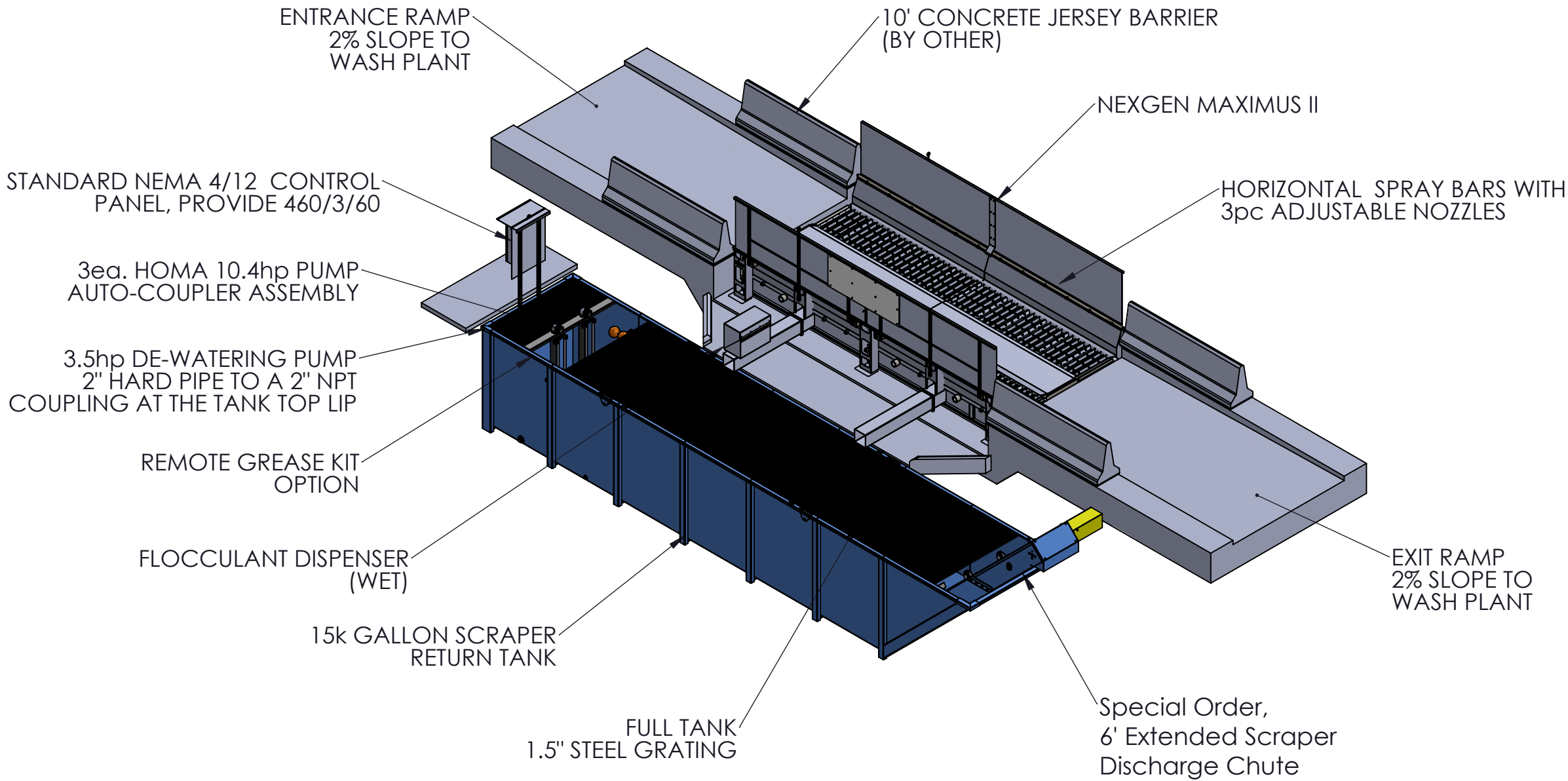


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Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES



MODEL NAME: MaxII G 15kSRT Cover - 20180523

REF DWG:		TOLERANCES UNLESS NOTED	
		FRACTIONAL : ±1/16"	
		DECIMAL 0.00 : ±.02"	
		DECIMAL 0.000 : ±.005"	
		DECIMAL 0.0000 : ±.0010"	
		ANGLE D° : ±1°	
		ANGLE D° M' S" : ±0° 15' 0"	
		TOLERANCES FOR THE OVERALL DIMENSIONS ARE NOT CUMULATIVE	
		SIZE R	
		DWG. NO. MaxII G 15kSRT Cover - 20180523	
		SHEET 1 OF 9	
		REV.	

IES

INNOVATIVE
EQUIPMENT
SOLUTIONS

Innovative
Equipment
Solutions

Charah
NexGen Maximus II
15,000 Gallon Scraper Return Tank

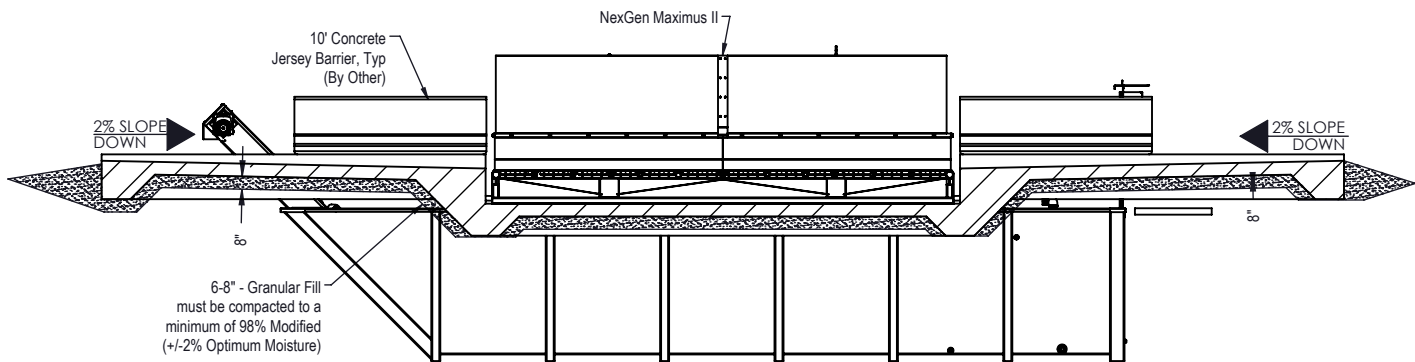
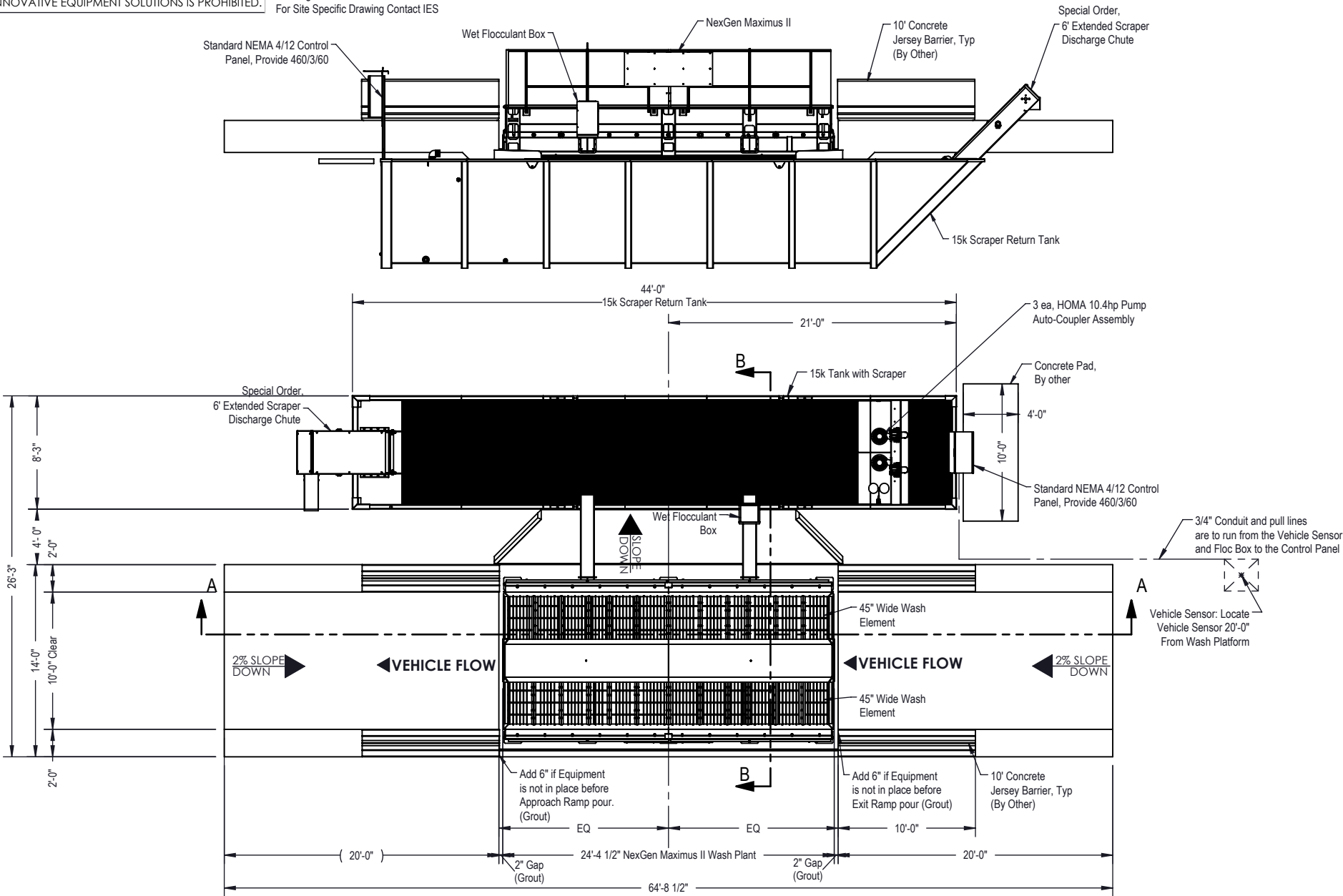
DRAWN BY m3
DATE 6/21
SCALE 1:128

CHECKED BY
TOLL FREE: 1-866-303-4IES
FAX: (501) 520-5206

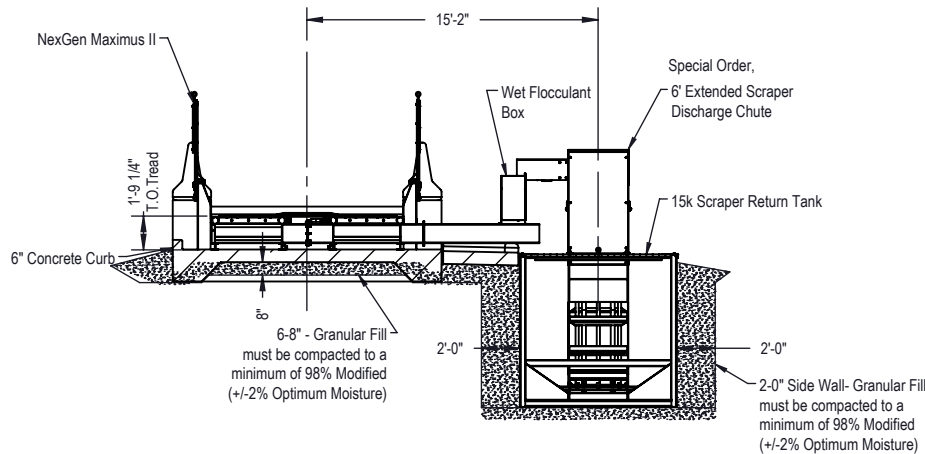
174 Cornerstone Ct. Suite B
Hot Springs, AR 71913
Office: (501) 525-8484
Toll Free: 1-866-303-4IES
Fax: (501) 520-5206

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Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES



SECTION A-A
SCALE 1 : 120



SECTION B-B
SCALE 1 : 120

MODEL NAME: MaxII G 15kSRT Assy - 20210426 Charah

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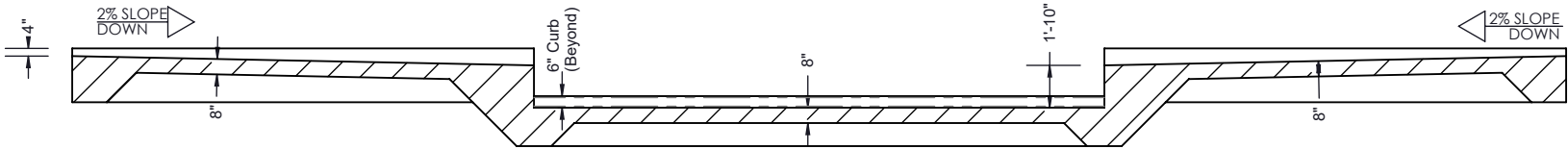
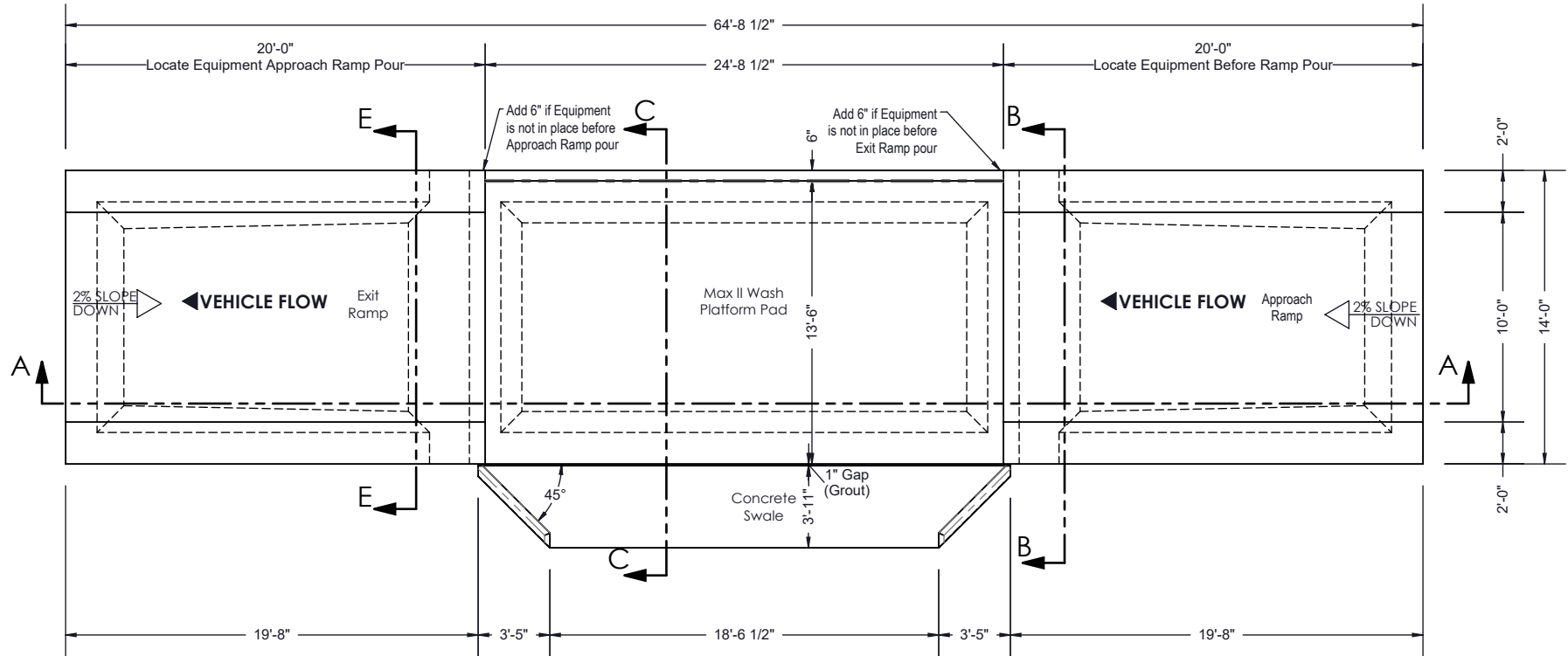
REF DWG:		TOLERANCES UNLESS NOTED	
FRACTIONAL	: 1/16"	CHARAH	
DECIMAL 0.00	: ±.02"	NexGen Maximus II	
DECIMAL 0.000	: ±.005"	15,000 Gallon Scraper Return Tank	
DECIMAL 0.0000	: ±.0010"		
ANGLE D°	: ±1°	DRAWN BY	m3
ANGLE D° M' S"	: ±0° 15' 0"	CHECKED BY	
TOLERANCES FOR THE OVERALL DIMENSIONS ARE NOT CUMULATIVE		DATE	6/21
		SCALE	1:128
SIZE	DWG. NO.	SHEET	2 OF 9
B	MaxII G 15kSRT Assy - 20210426 Charah	REV.	

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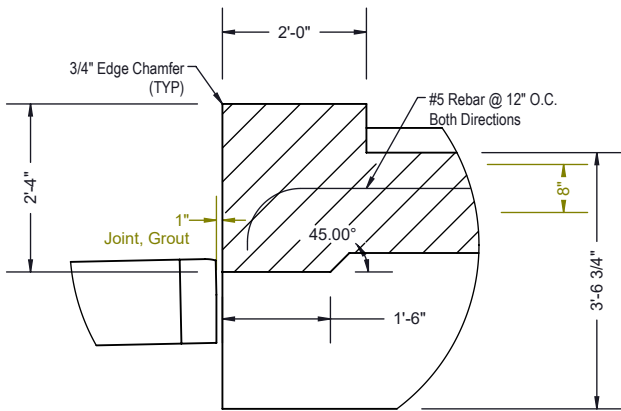
Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES

Concrete Notes:

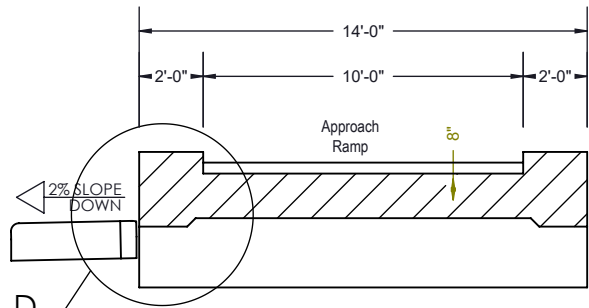
- Concrete materials and workmanship shall conform to the latest requirements of the aci-301 "specifications for structural concrete for buildings", aci-318 "building code requirements for structural concrete", aci-117 "standard specification for tolerances for concrete construction and materials", and all local government building code requirements.
- All concrete shall attain a 28 day compressive strength of 4000 psi, with maximum slump range of 4"-6". Aggregate size shall be 1 1/2" maximum.
- Concrete surface finish shall be in accordance With aci-301 as follows:
 - Exposed vertical surfaces shall have a grout cleaned finish
 - Exposed foundation and slab top surfaces shall have a floated finish. (Broom stroke left to right - perpendicular to slope)
- All exposed concrete edges shall have a 3/4" chamfer.
- Reinforcing steel shall be deformed bars conforming to astm-a615, grade 60 splices shall be class "b" in accordance with aci-318.
- All concrete shall be air entrained 5% (-1%, +2%).
- Reinforcing steel set in existing concrete with epoxy shall be installed with "hilti hit hy-150 system" or approved equal. The installation shall be in strict accordance with the manufacturer's instructions.
- Expansion joint material shall be 1/2" fiber board saturated with bituminous binder, astm 1751.
- Grout shall be masterflow #928 as manufactured by basf/mbt or approved equal.
- All foundations shall be founded on undisturbed natural soil (with organic material removed) or compacted laboratory controlled fill with a minimum soil bearing pressure of not less than 1500 psf. Prior to filling, the existing grade shall be verified as being capable of 1500 psf bearing capacity as well. If bearing capacity is in question, the contractor shall notify the engineer prior to proceeding.
- Fill and backfill of undercut areas shall be placed in eight inch layers and compacted to 95% of maximum dry density at optimum moisture content, in accordance with astm d-598.
- Fill and/or backfill placed against walls shall be brought up equally on both sides of the wall. Where earth is retained on only one side of the wall, the wall shall be braced temporarily until it is ties onto the structure in its final position.
- All dimensions and elevations shall be verified by the equipment vendor prior to fabrication and construction.
- All disturbed areas shall be finish graded and seeded or covered with gravel, site owner discretion.
- The wheel wash equipment, per the drawings, is intended to be located tight to the approach ramp (drawing left), with grout fill added at the gaps



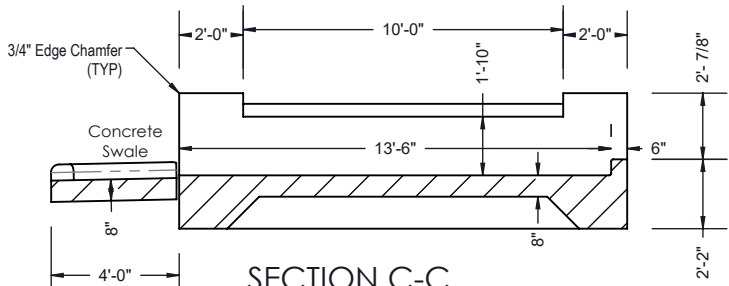
SECTION A-A
SCALE 1 : 96



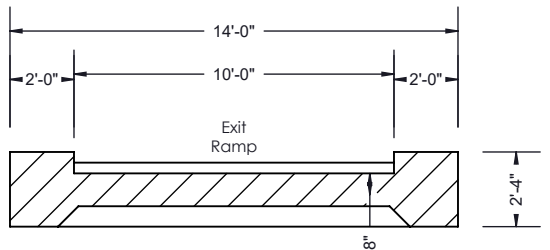
DETAIL D
SCALE 1 : 32



SECTION B-B
SCALE 1 : 72



SECTION C-C
SCALE 1 : 72



SECTION E-E
SCALE 1 : 72

Item	Steel	Weld/Galv 10%	Total
Max II	12,500 lbs	1250 lbs	13,750 lbs
Floc	378 lbs	38 lbs	416 lbs
Total			5,687 lbs

MODEL NAME: MaxII G 15kSRT Conc Assy

TOTAL WEIGHT	
TOLERANCES UNLESS NOTED	
FRACTIONAL	± 1/16"
DECIMAL 0.00	± .02"
DECIMAL 0.000	± .005"
DECIMAL 0.0000	± .0010"
ANGLE D°	± 1°
ANGLE D° M' S"	± 30' 15" 0"
TOLERANCES FOR THE OVERALL DIMENSIONS ARE NOT CUMULATIVE	



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NexGen Maximus II

15,000 Scraper Return Tank

Concrete Platform Drawings & Details

DRAWN BY

m3

CHECKED BY

DATE

6/21

SCALE

VARIES

SIZE DWG. NO.

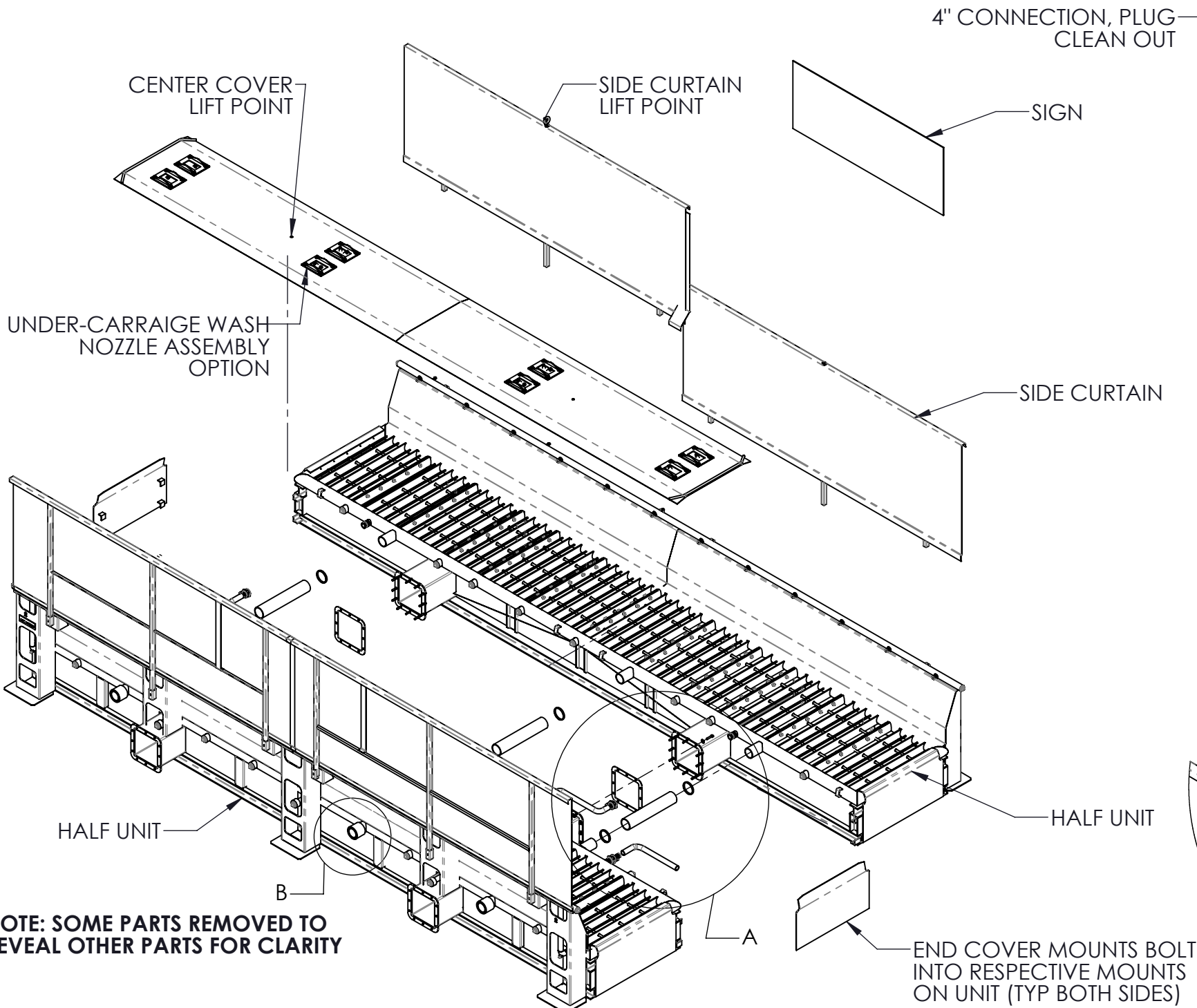
B

SHEET 3 OF 9

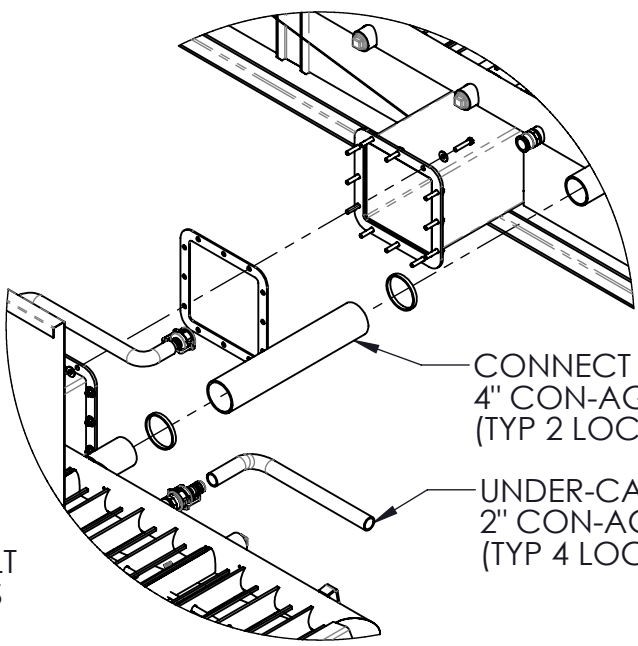
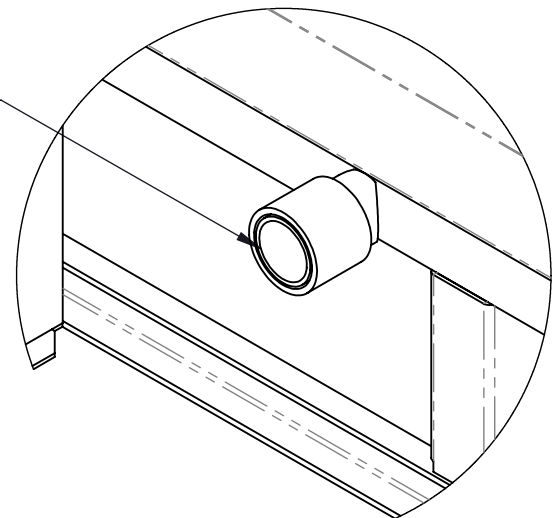
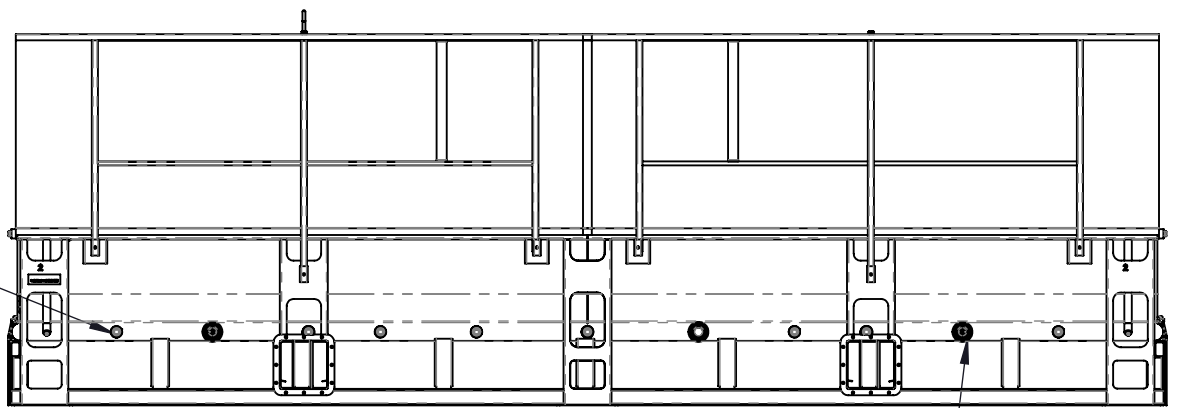
REV. Duke Charah

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Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES



NOTE: SOME PARTS REMOVED TO REVEAL OTHER PARTS FOR CLARITY



CONNECT HALF UNIT WATER SUPPLY USING 4" CON-AG HOSE WITH CLAMPS AS SHOWN (TYP 2 LOCATIONS)

UNDER-CARRIAGE WASH SUPPLY USING 2" CON-AG HOSE WITH CLAMPS AS SHOWN (TYP 4 LOCATIONS) OPTION



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**NexGen Maximus II
Installation Drawings**

DRAWN BY
m3

DATE
5/18

SIZE
B

CHECKED BY

SCALE
NTS

SHEET 4 OF 9

REV.

TOLERANCES UNLESS NOTED

FRACTIONAL : ± 1/16"

DECIMAL 0.00 : ± .02"

DECIMAL 0.000 : ± .005"

DECIMAL 0.0000 : ± .0010"

ANGLE D° : ± 1°

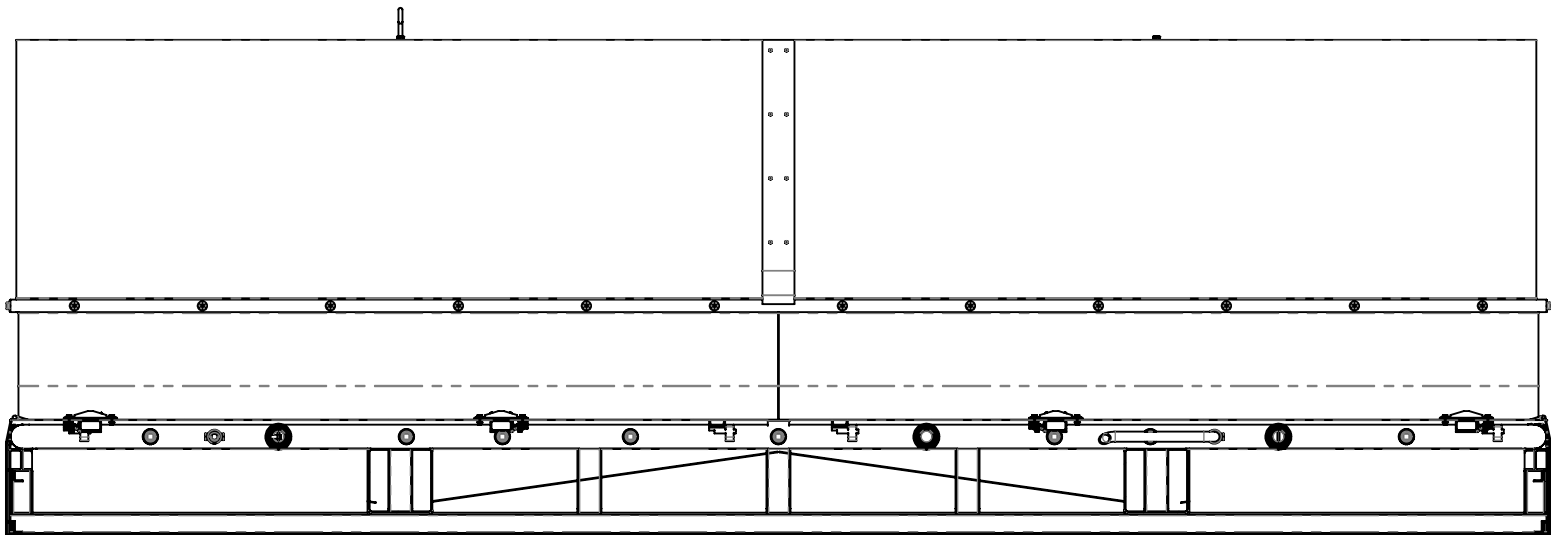
ANGLE D° M' S" : ± 30' 15" 0"

TOLERANCES FOR THE OVERALL
DIMENSIONS ARE NOT CUMULATIVE

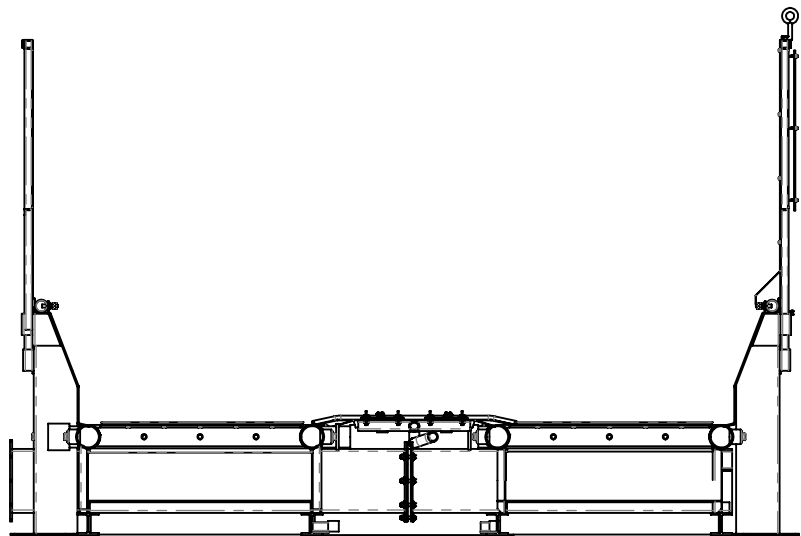
MODEL NAME:

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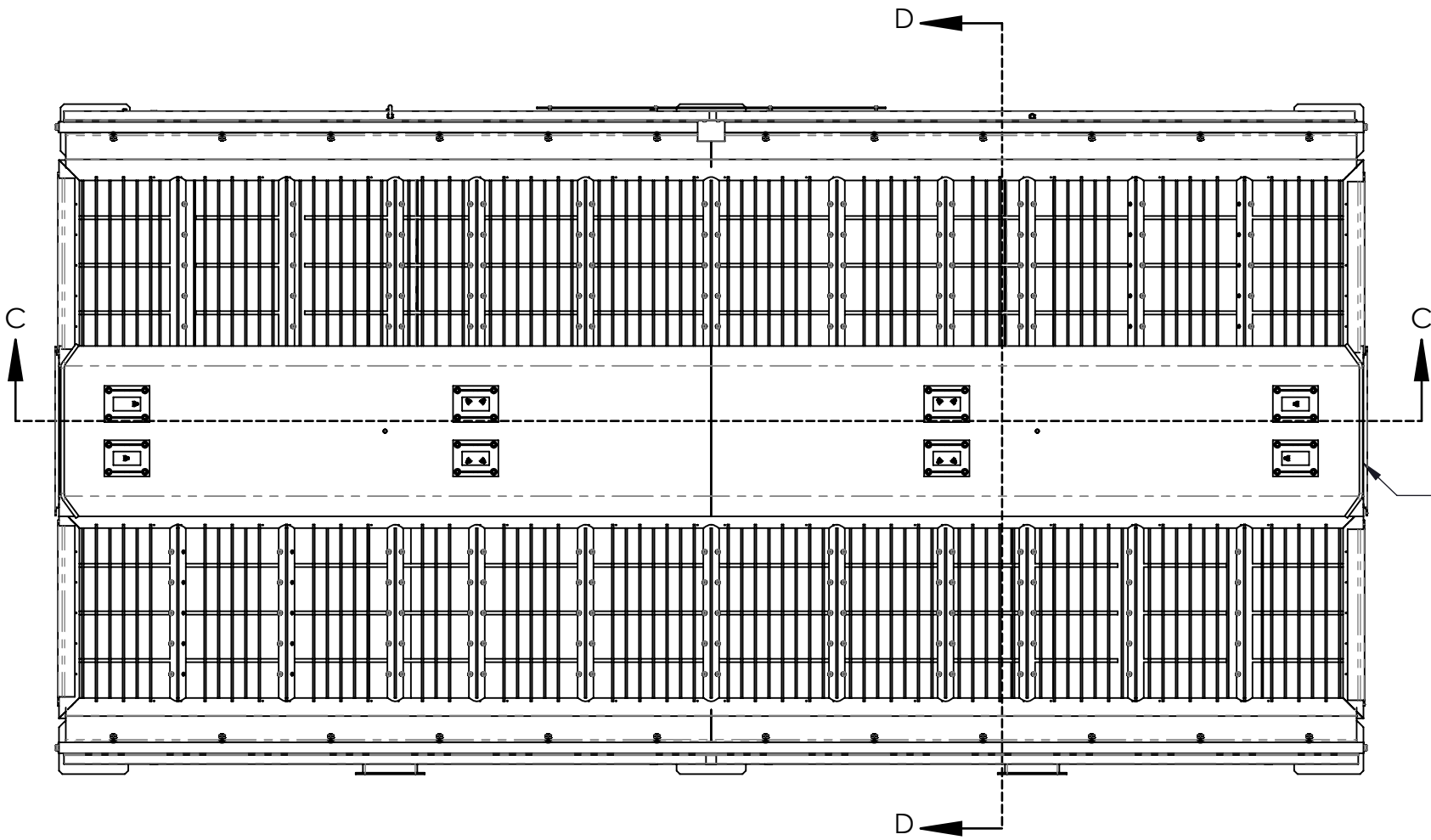
Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES



SECTION C-C
SCALE 1 : 36



SECTION D-D
SCALE 1 : 36



END COVER MOUNTS BOLT
INTO RESPECTIVE MOUNTS
ON UNIT (TYP BOTH SIDES)

MODEL NAME:

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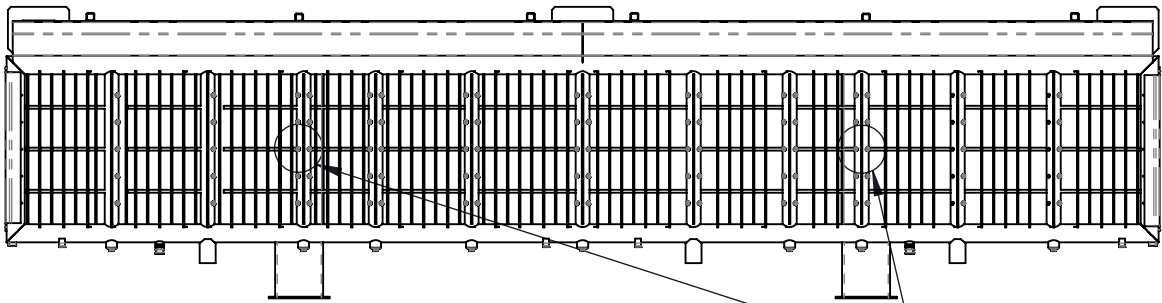
NexGen Maximus II
Installation Drawings

REF DWG:
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DECIMAL 0.00 : $\pm .02"$
DECIMAL 0.000 : $\pm .005"$
DECIMAL 0.0000 : $\pm .0010"$
ANGLE D° M' S" : $\pm 1° 15' 0"$
ANGLE D° M' S" : $\pm 0° 15' 0"$
TOLERANCES FOR THE OVERALL
DIMENSIONS ARE NOT CUMULATIVE

DRAWN BY	m3	CHECKED BY	
DATE	5/18	SCALE	NTS
SIZE	DWG. NO.	SHEET 5 OF 9	REV.

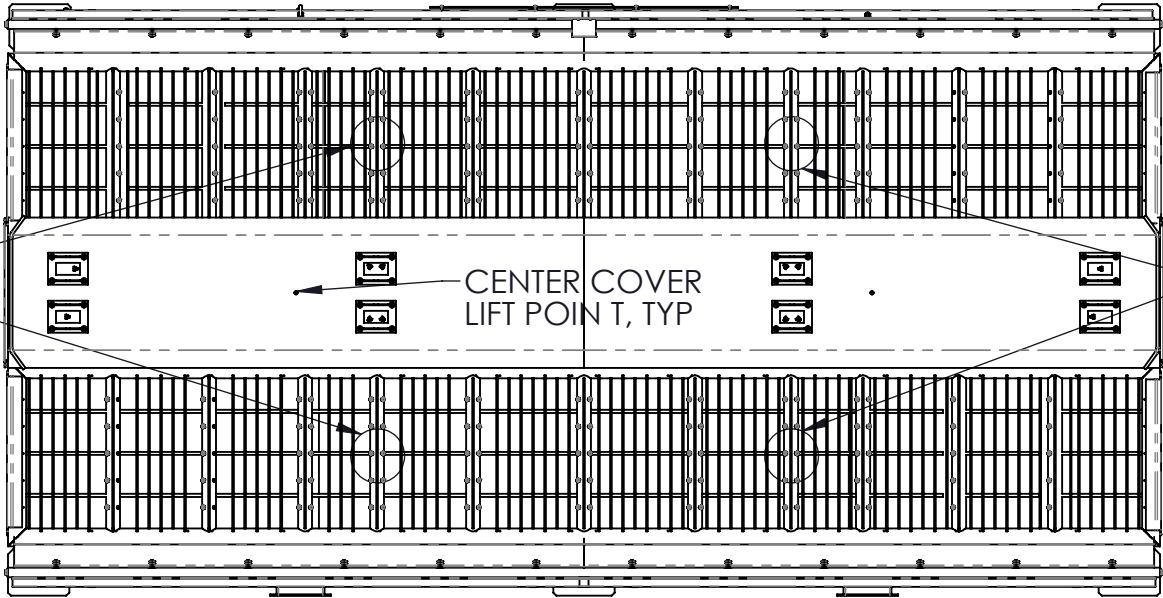
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Typical Installation Drawing
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HALF UNIT LIFTING POINTS
(TYP BOTH SIDES)

CIRCLE INDICATES LIFT POINTS
USE LIFTING STRAPS RATHER THAN
CHAINS TO MINIMIZE POTENTIAL
DAMAGE TO UNIT



FULL UNIT LIFTING POINTS

CIRCLE INDICATES LIFT POINTS
USE LIFTING STRAPS RATHER THAN
CHAINS TO MINIMIZE POTENTIAL
DAMAGE TO UNIT

CIRCLE INDICATES LIFT POINTS
USE LIFTING STRAPS RATHER THAN
CHAINS TO MINIMIZE POTENTIAL
DAMAGE TO UNIT

CENTER COVER
LIFT POINT T, TYP

MODEL NAME:

REF DWG:

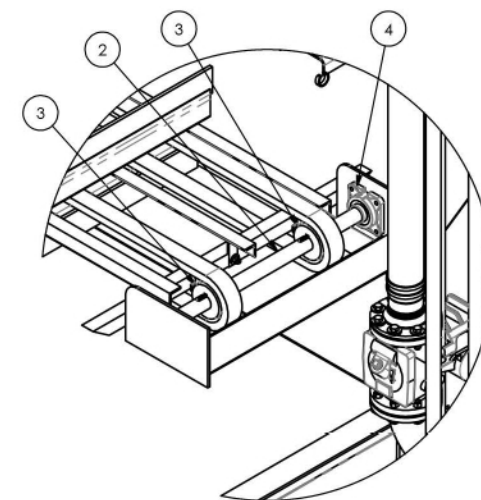
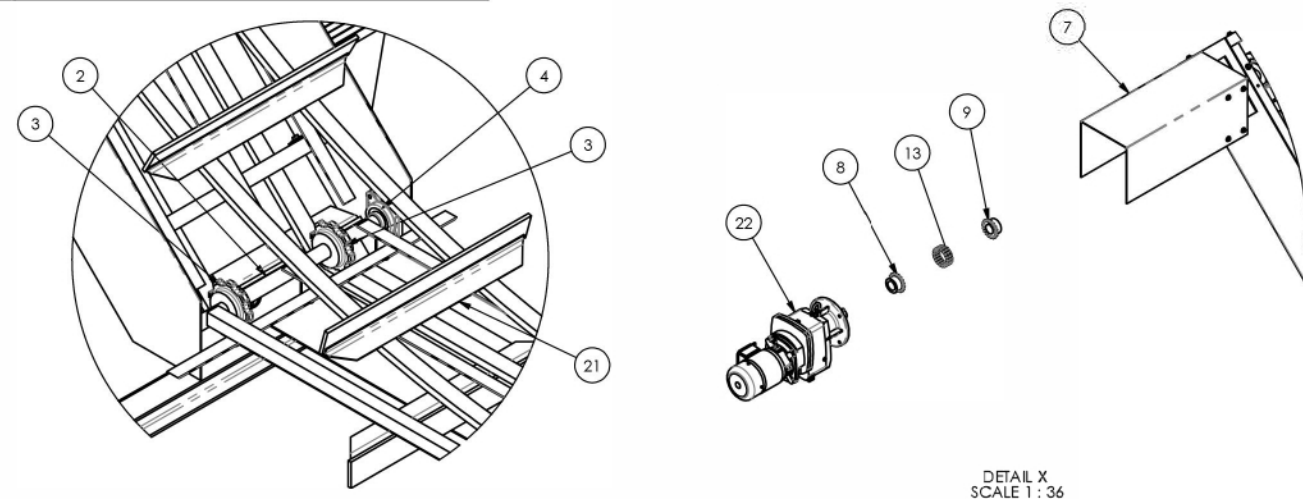
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DECIMAL 0.00 : ±.02"
DECIMAL 0.000 : ±.005"
DECIMAL 0.0000 : ±.0010"
ANGLE D° M' S" : ±1° 15' 0"
ANGLE D° M' S" : ±0° 15' 0"
TOLERANCES FOR THE OVERALL
DIMENSIONS ARE NOT CUMULATIVE

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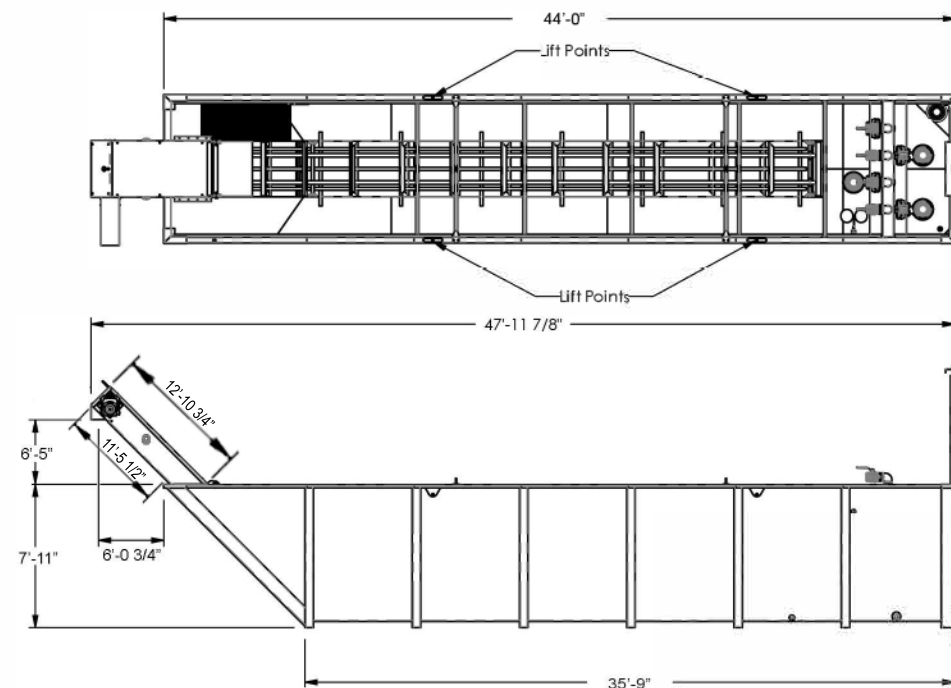
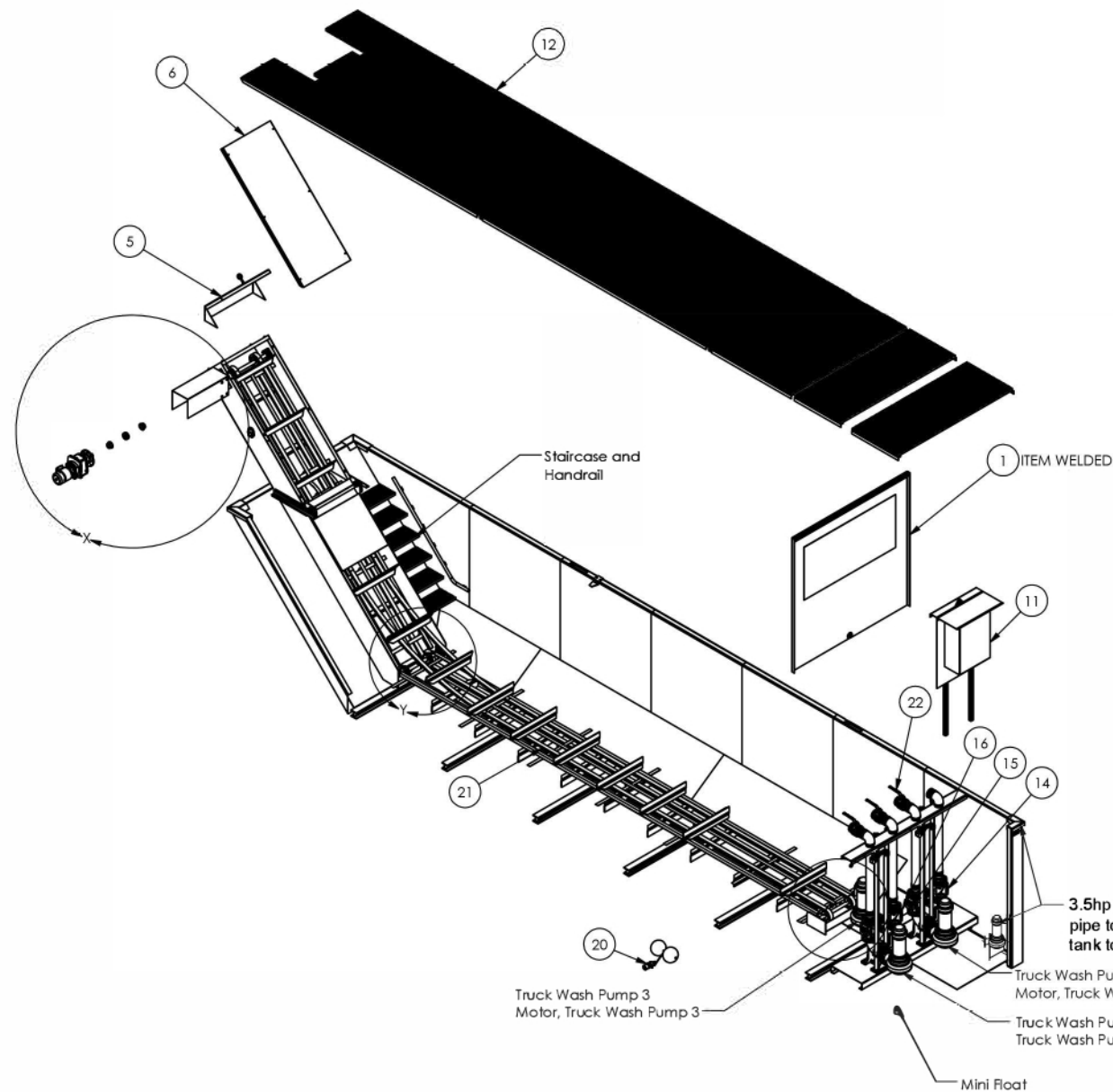
NexGen Maximus II
Installation Drawings

DRAWN BY	m3	CHECKED BY	
DATE	5/18	SCALE	NTS
SIZE	DWG. NO.	SHEET 6 OF 9	REV.

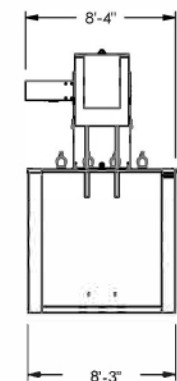
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	QTY.	PART NUMBER	DESCRIPTION	WEIGHT
1	1	15K Tank Retaining Wall	WEIR WALL	43 lbs
2	2	Scraper Idler Shaft	SHAFT 1-15/16" CR	4 lbs
3	6	08T-1.9375	SPROCKET 8T-H78 1 15/16" W/KW&2SS	2 lbs
4	6	Dodge SC Flange 4-Bolt	1.9375 SC 4-BOLT FLANGE BALL BEARING, DODGE #051992 No Lube/Sealed For Life	1 lb
5	1	Scraper Chute Cover	PLATE 1/8" x 19 7/16" x 41 7/8"	48 lbs
6	1	Extension Lug Chain Guard	STANDARD SCRAPER EXTENSION TOP COVER PLATE	140 lbs
7	1	Motor Mount and Cover Assembly	MOTOR MOUNT WITH GUARD	6 lbs
8	1	6018 1-7/8" Sprocket	COUPLING HALF,FB6018, 1-7/8 BORE DODGE #099121	1 lb
9	1	6018 1-15/16" Sprocket	COUPLING HALF,FB6018, 1-15/16 BORE DODGE #099122	1 lb
10	1	0-SVW-M-CNV3000	NORD SK43F(250mm FLANGE) - 90S/4 (1.5hp)	387 lbs
11	1	0-SVW-CP-WASH3000	CONTROL PANEL	310 lbs
12	13	1.5in x 36 Steel Grating Galvanized	3/16" X 1 1/2" x 36" Wide Welded Bar Grating Galvanized	171 lbs
13	1	Martin Chain	6018 Martin Chain	1 lb
14	1	0-SVW-V-3054	4" Check Valve 1	5 lbs
15	1	0-SVW-V-3055	4" Check Valve 2	5 lbs
16	1	0-SVW-V-3056	4" Check Valve 3	5 lbs
17	1	0-SVW-EHR-3000	Water Tank Cold Weather Kit (Heater 1)	2 lbs
18	1	0-SVW-EHR-3001	Water Tank Cold Weather Kit (Heater 2)	2 lbs
19	1	0-SVW-EHR-3002	Water Tank Cold Weather Kit (Heater 3)	2 lbs
20	1	0-SVW-V-3050	Float Valve (2")	22 lbs
21	1	0-SVW-CNV-3000	Scraper Conveyor	2400 lbs
22	3	0-SVW-V-3053	4" SS Isolation Valve (Option)	12 lbs



— 3.5hp De-watering pump. 2" hard pipe to a 2" NPT coupling at the tank top-lip.



3.5hp De-watering pump. 2" hard pipe to a 2" NPT coupling at the tank top-lip.

Truck Wash Pump 1
Motor, Truck Wash Pump 1

- Truck Wash Pump 2 Motor, Truck Wash Pump 2

— Mini Float

MODEL NAME:

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ED	Nexgen Maximus II 15kSC 15k Assembly
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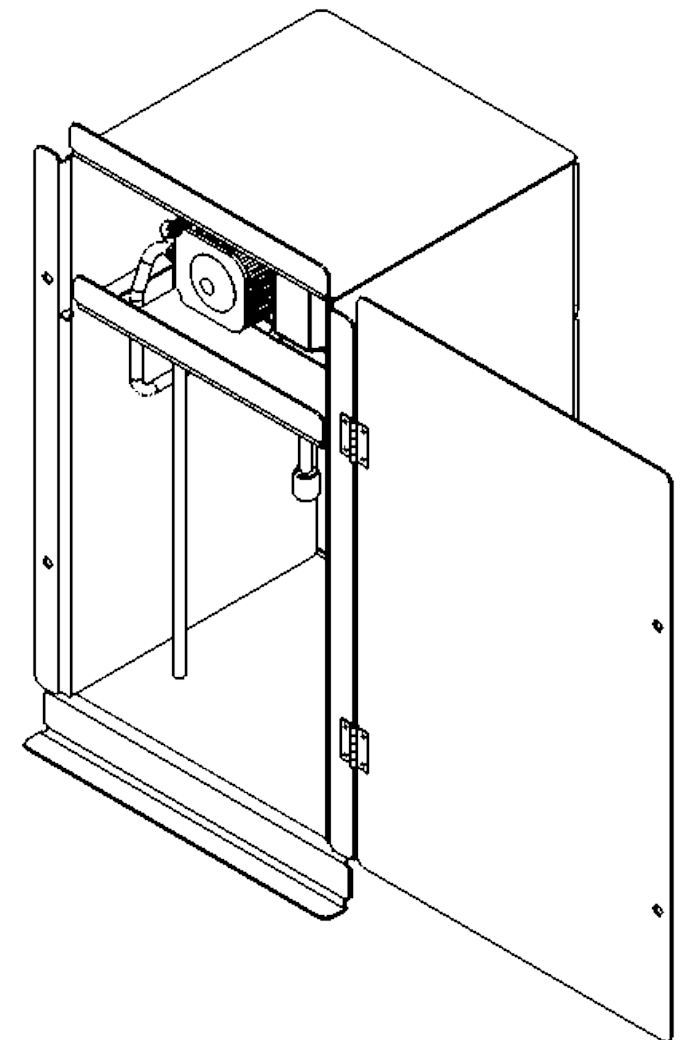
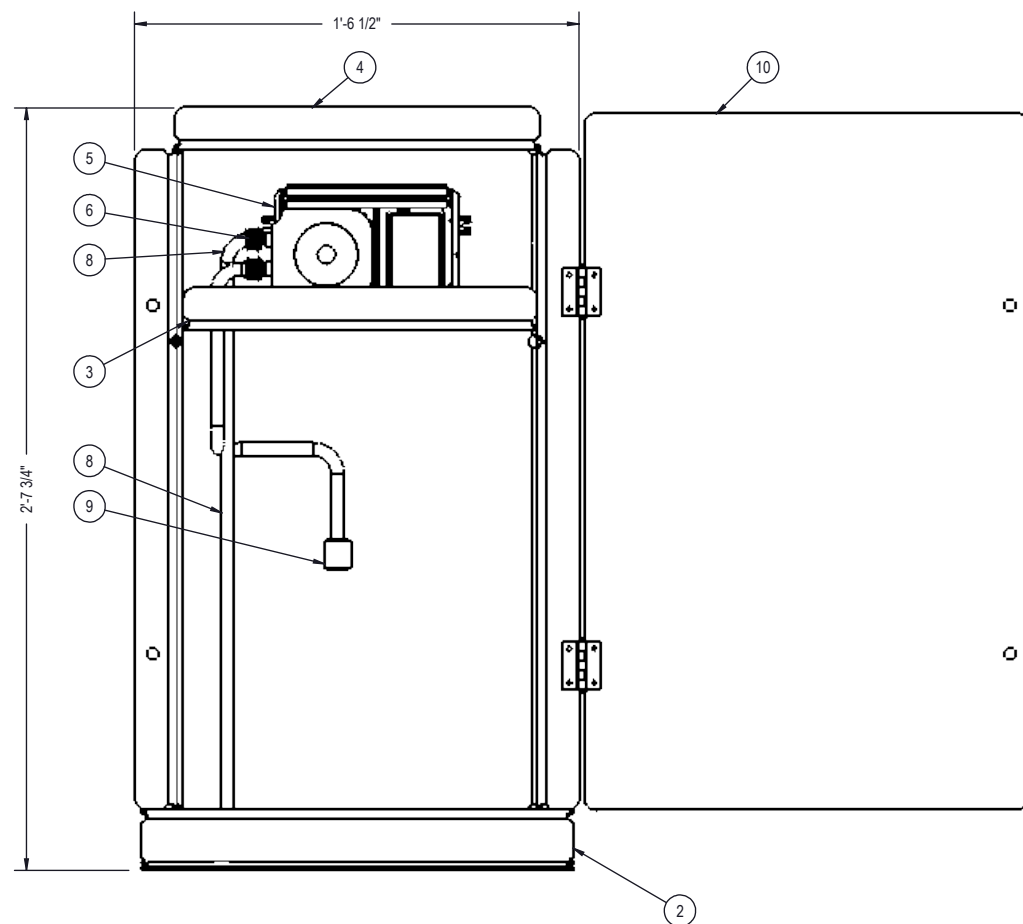
DRAWN BY m3	CHECKED BY
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DATE	5/21	SCALE	1:128
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SIZE B	DWG. NO.	SHEET 7	OF 9	REV. 4
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TOTAL WEIGHT	
TOLERANCES UNLESS NOTED	
FRACTIONAL	$\pm 1/16$
DECIMAL 0.00	$\pm .02$ "
DECIMAL 0.000	$\pm .005$ "
DECIMAL 0.0000	$\pm .001$ "
ANGLE D°	± 1 "
ANGLE D° M' S"	$\pm 0' 1$ "
TOLERANCES FOR THE OVERALL DIMENSIONS ARE NOT CUMULATIVE	

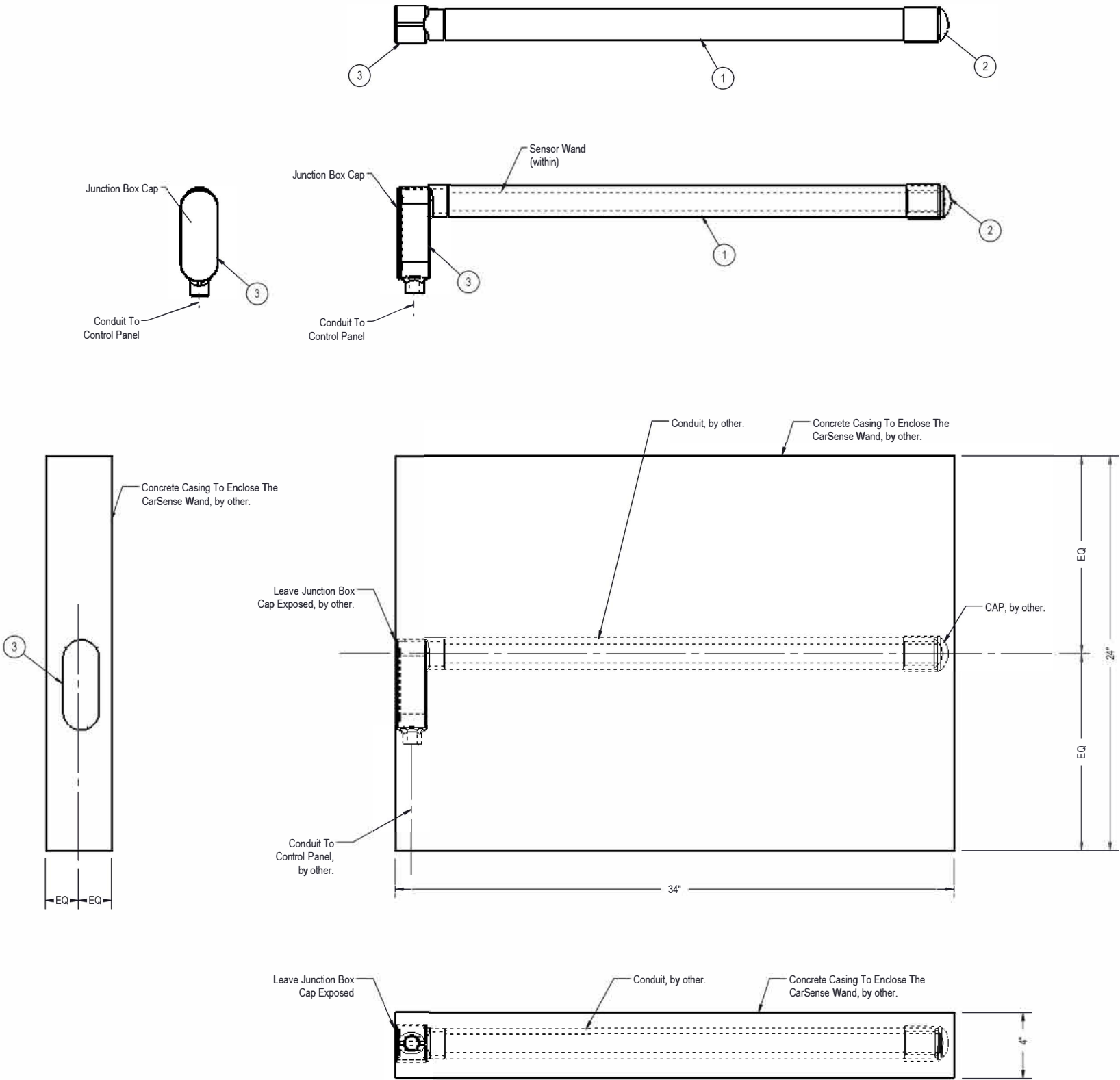
**Typical Installation Drawing
Not For Construction
Drawing Assumes Level Ground
For Site Specific Drawing Contact IES**



ITEM	PART NUMBER	DESCRIPTION	QTY
1	Wet Flocc Box Container 48 x 27.5		1
2	Wet Flocc Box Container Cover		1
3	Wet Flocc Box Container Pump Plate		1
4	Wet Flocc Box Container Top Cover		1
5	A-100N	MODEL A-100N PERISTALTIC INJECTOR PUMP	1
6	.375 Hose Cap	3/8" HOSE COMPRESSOR CAP	2
7	.5 Clear Hose	3/8" CLEAR VINYL HOSE	1
8	.5 Clear Hose Bucket Connection	3/8" CLEAR VINYL HOSE	1
9	.375in Hose Weight	3/8" HOSE WEIGHT	1
10	Wet Flocc Box Container Door r16		1

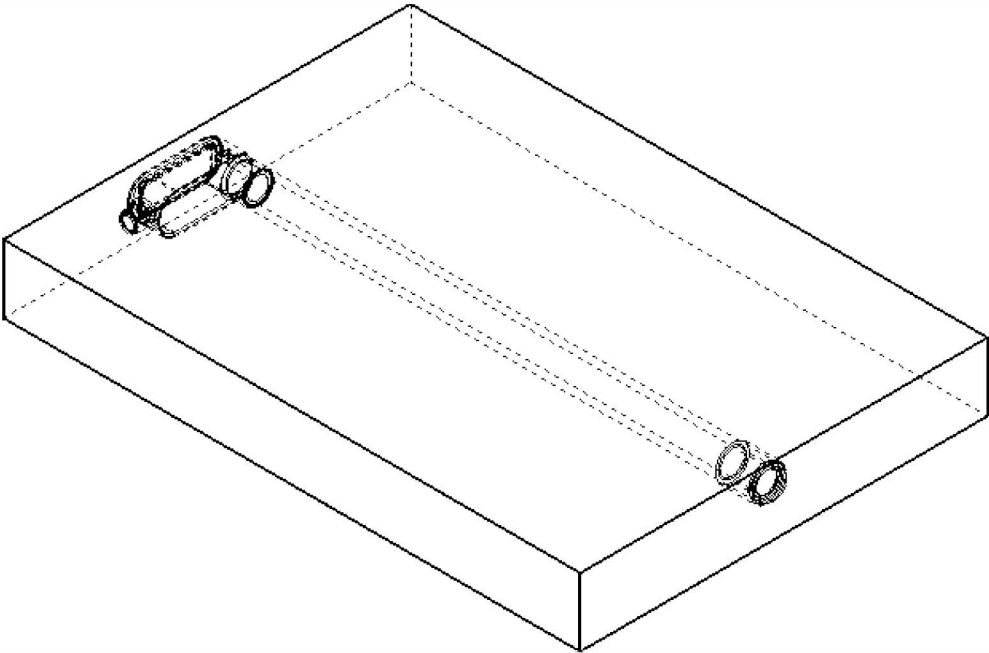
REV #	DATE	DESCRIPTION	INIT	REF DWG:
Rev-0	7/25/2020	Initial Release	m3	
				TOLERANCES UNLESS NOTED
				FRACTIONAL : ±1/16"
				DECIMAL 0.00 : ±.02"
				DECIMAL 0.0000 : ±.005"
				DECIMAL 0.0000 : ±.0010"
				ANGLE D° : ±1°
				ANGLE D° M' S" : ±0° 15' 0"
				TOLERANCES FOR THE OVERALL DIMENSIONS ARE NOT CUMULATIVE
MODEL NAME: WET FLOCCULENT BOX				

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	WET FLOCCULENT DISTRIBUTION BOX DETAIL SHEET			



ITEM	PART NUMBER	DESCRIPTION	QTY
1	Conduit	1 1/4" PVC CONDUIT	1
2	PVC Conduit End Cap	1 1/4" PVC CONDUIT CAP	1
3	1.25in Conduit Housing	1 1/4" CONDUIT LB	1

Conduit, fittings and junction boxes, and concrete encasement is to be provided by client.



The Car-Sense CS 101 sensor uses a passive probe sensor to detect changes in the earth's magnetic field. These changes are caused by a movement of ferrous metal objects such as a vehicle within proximity of the probe. The sensing area of each probe is in the shape of a 15 foot circle, varies per installation. The size of this detection circle changes with the size and speed of the moving car. The sensing probe is hardwired to the control panel, and remotely mounted 4" to 6" underground a minimum 20'-0" from and along side the entrance path.