

WHEELBASE CHART		
FOR MODULAR SHUTTER PLATE TRENCH MODELS: MOD35 SERIES		
" U " (INCHES)	MIN. W/B (INCHES)	FRAME LENGTH (FT.)
		18
		MAXIMUM WHEELBASE (INCHES)
53	108	222
59	114	228
65	120	234
71	126	240
77	132	246
83	138	252
89	144	258
95	150	264
101	156	270
107	162	276
113	168	282
119	174	288
125	180	294
131	186	300
137	192	306
143	198	312
149	204	318
155	210	324

SPEC0252 IS FOR 3000 PSF SOIL CONDITIONS WITH A SLAB BASE

THIS DRAWING SET IS TO DETERMINE THE CONFIGURATION THAT IS APPLICABLE TO YOUR PROJECT FROM WHICH SITE SPECIFIC DRAWINGS CAN BE CREATED

General Notes

NOTES: TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS (EFR) CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO CONFIRM LATEST REVISION

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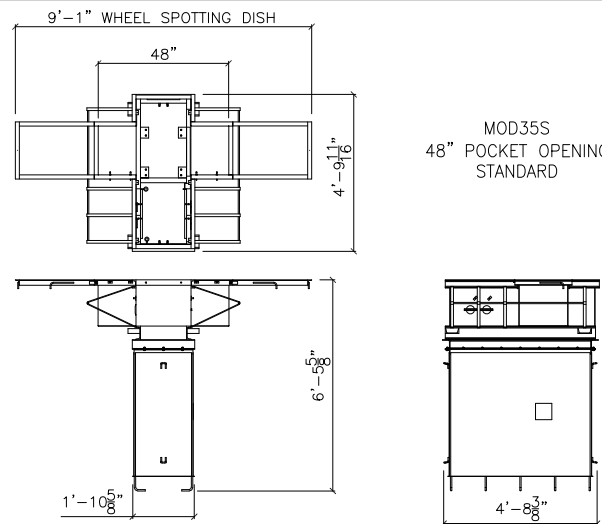
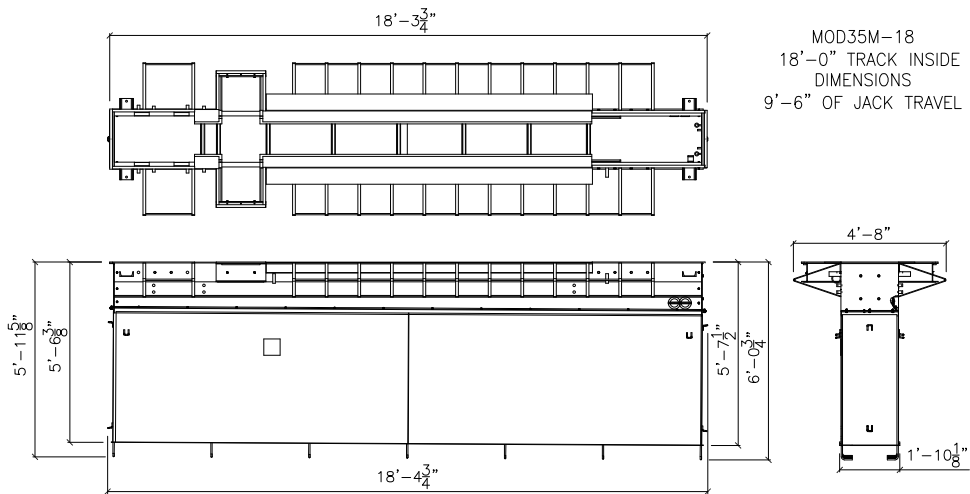
C	11115	10.31.19	LK/EMS
B	9903.4	12.5.16	LK/GDL
A	8581.48	1.8.15	LK/AJ
-	8581.32	5.7.14	THP/LK
REV	CO NUM	DATE	BY

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MADISON, IN. 47250  
www.rotarylif.com  
800.445.5438

PROJECT NAME

2 POST  
WHEELBASE LAYOUT  
MOD35 SERIES

Drawing Number SPEC0252-1	Sheet
Date 5.7.14	1 OF 10
Scale NONE	



# General Notes

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PROJECT NAME

MOD35 SERIES  
STATIONARY  
AND  
MOVEABLE  
HOUSING  
CONFIGURATIONS

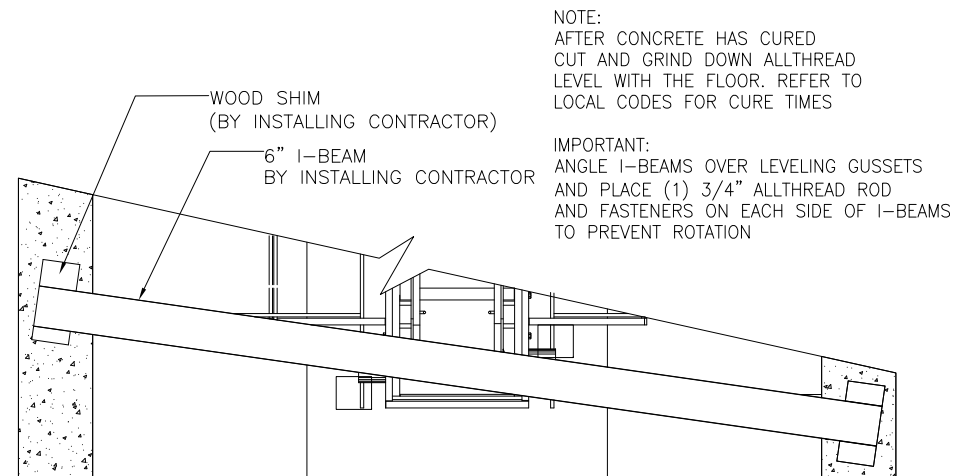
Drawing Number  
SPEC0252-2

Date  
5.7.14

Scale  
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Sheet

2 OF 10



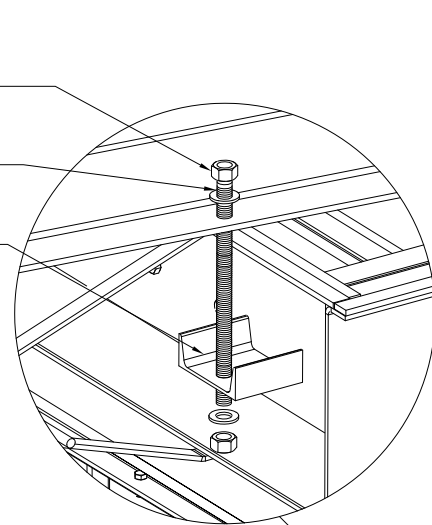
TOP VIEW OF PIT

NOTE:  
BOXES MUST BE FLAT AND LEVEL OR  
LIFT OPERATION MAY BE AFFECTED.

3/4\"

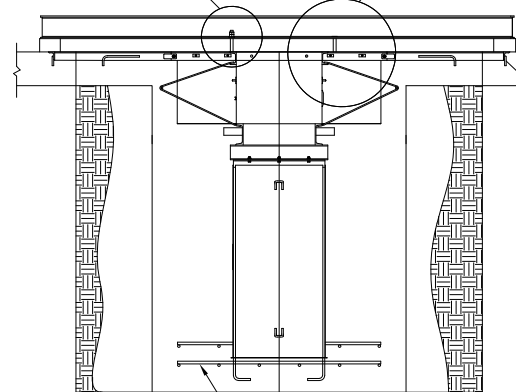
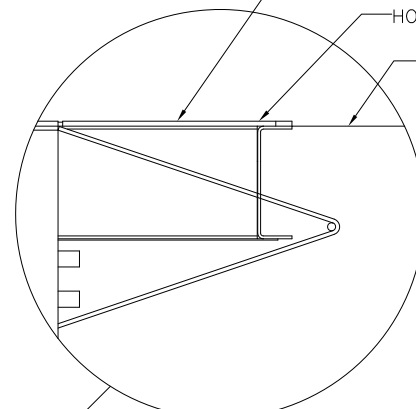
3/4\"

LEVELING GUSSETS  
(1) ON EACH CORNER  
OF HOUSINGS



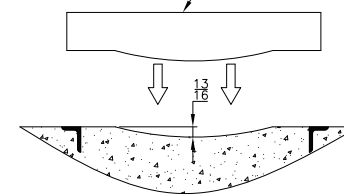
IMPORTANT:  
HOUSING FRAMES  
MUST BE SET 1/8\"

HOUSING FRAME  
FLOOR GRADE

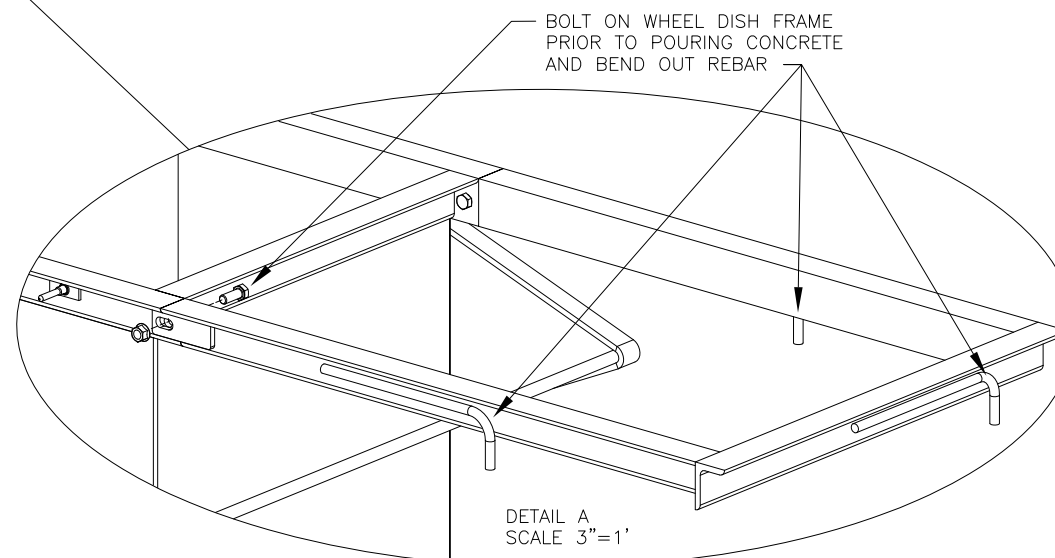


REBAR MUST HANG FROM  
BOTTOM OF HOUSINGS

WHEEL DISH SWEEP (PROVIDED)  
USE TO FORM (2) WHEEL DEPRESSIONS  
ON EACH SIDE OF REBAR HOUSING



BOLT ON WHEEL DISH FRAME  
PRIOR TO POURING CONCRETE  
AND BEND OUT REBAR



DETAIL A  
SCALE 3\"/>

# General Notes

NOTES: TYPICAL EQUIPMENT  
FOUNDATION REQUIREMENTS (EFR)  
CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO  
CONFIRM LATEST REVISION

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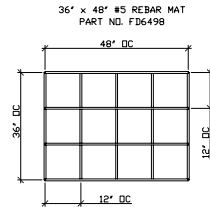
MOD35 SERIES  
SUSPENSION OF HOUSINGS

Drawing Number  
SPEC0252-3

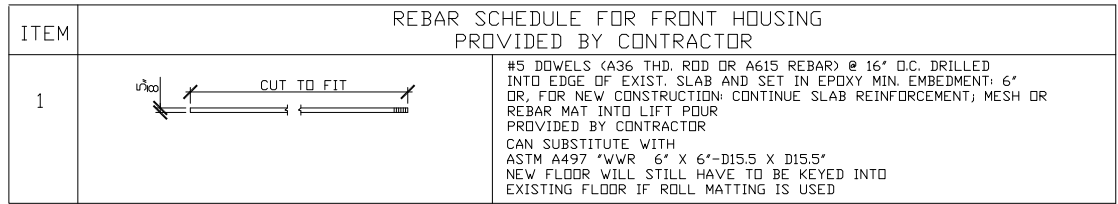
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5.7.14

Scale  
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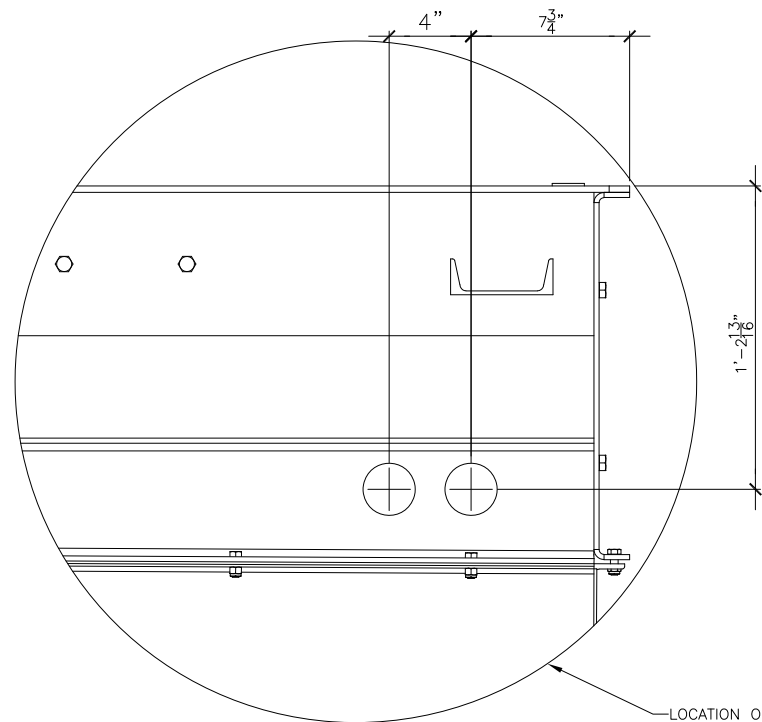
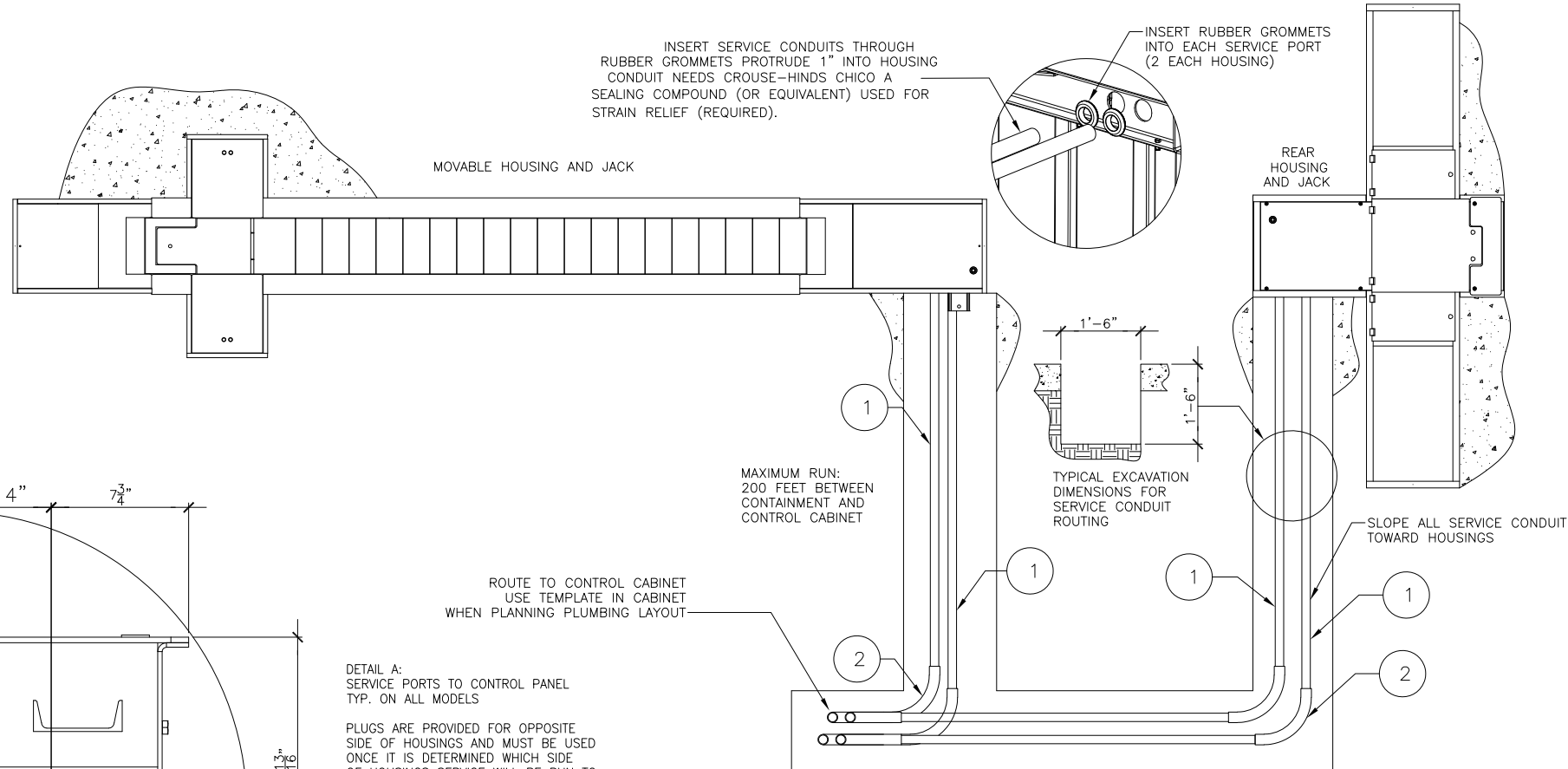
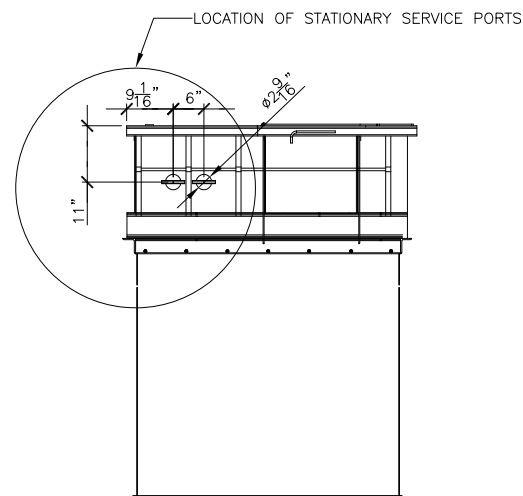
Sheet  
3 OF 10



Drawing Number	SPEC0252-4	Sheet
Date	5.7.14	
Scale	NONE	



Drawing Number SPEC0252-5	Sheet
Date 5.7.14	5 OF 10
Scale NONE	



DETAIL A:  
SERVICE PORTS TO CONTROL PANEL  
TYP. ON ALL MODELS

PLUGS ARE PROVIDED FOR OPPOSITE  
SIDE OF HOUSINGS AND MUST BE USED  
ONCE IT IS DETERMINED WHICH SIDE  
OF HOUSINGS SERVICE WILL BE RUN TO.

ITEM	QTY.	PLUMBING SCHEDULE FOR HOUSINGS PROVIDED BY CONTRACTOR	
1	AR		2" ELECTRICAL UNDERGROUND CONDUIT OR RACEWAY
2	8		2" SWEEPING 90° ELBOW

# General Notes

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PROJECT NAME

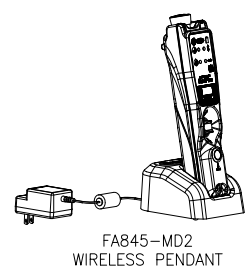
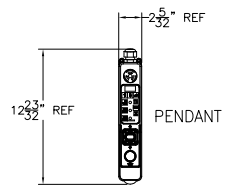
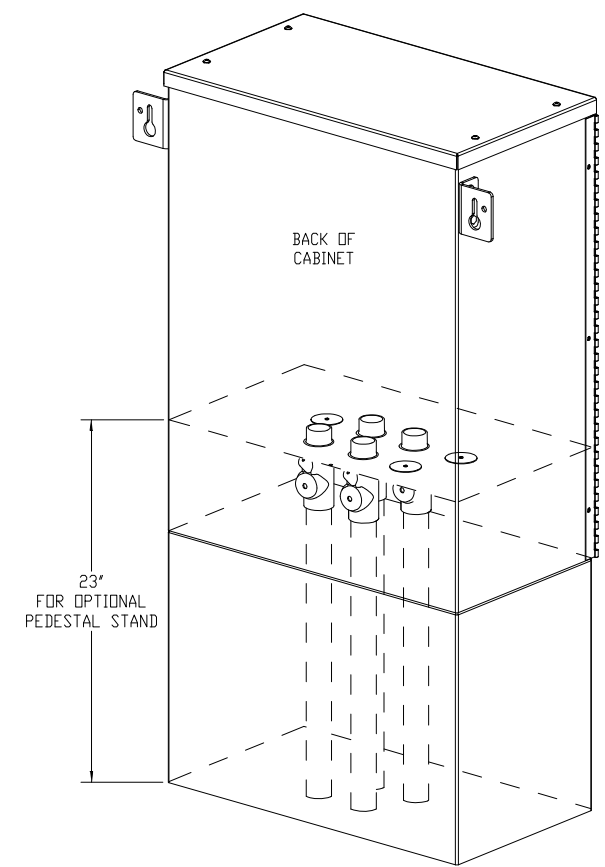
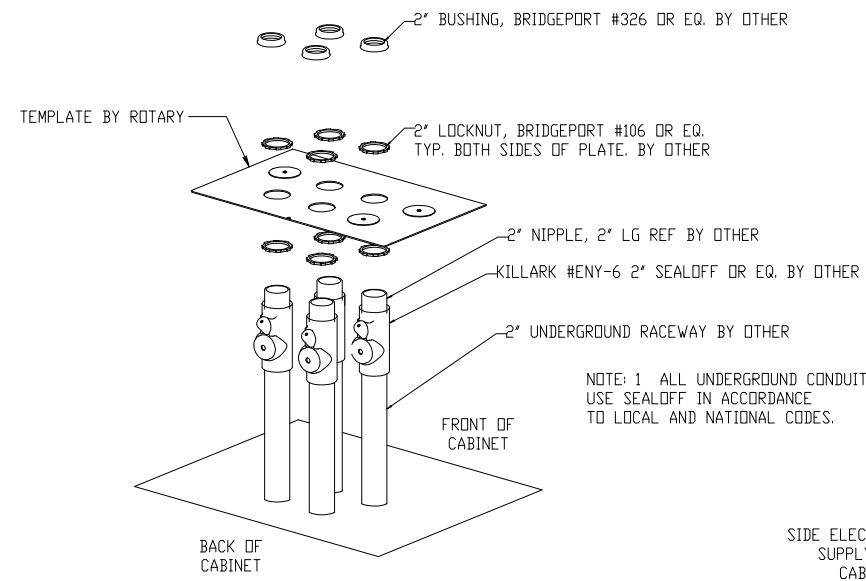
MOD35 SERIES  
PLUMBING DETAIL

Drawing Number  
SPEC0252-6

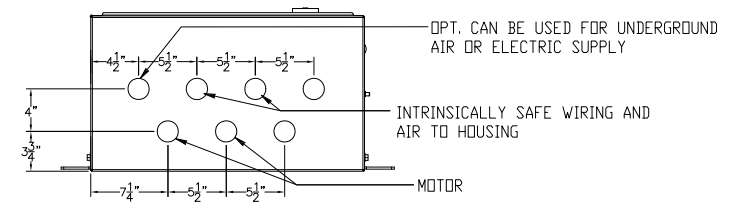
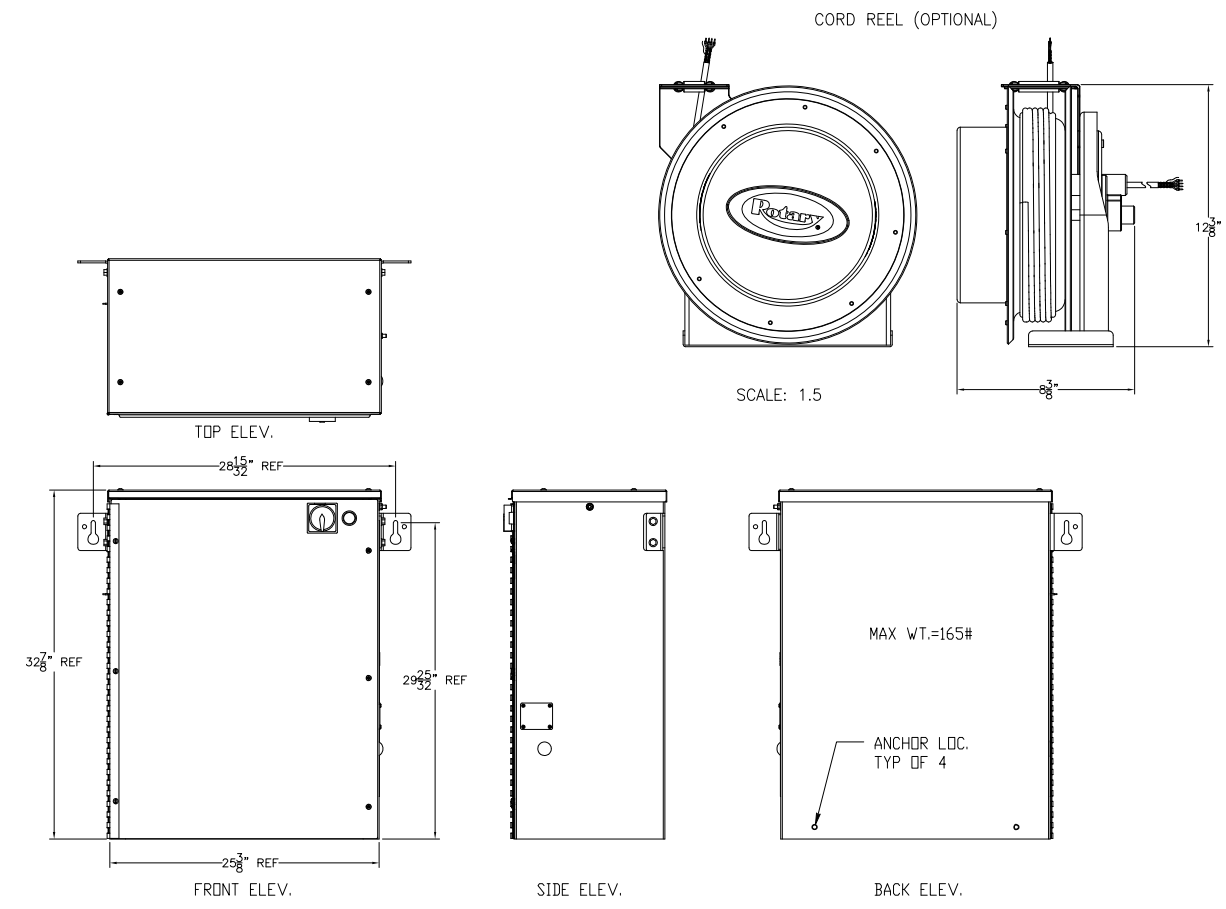
Date  
5.7.14

Scale  
NONE

Sheet  
6 OF 10

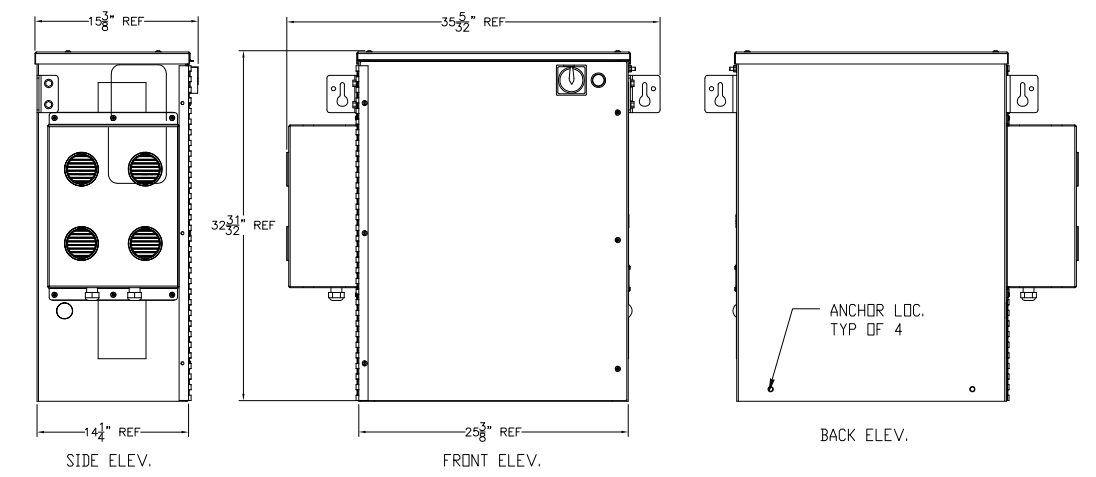


ANCHOR REQUIREMENTS:	
WOOD WALL CONN. -	USE #12 WOOD SCREW X 2" LONG INTO (E) OR (N) 3X WOOD BLKING w/ A35 FRAMING CLIPS.
CMU WALL CONN. -	USE HILTI HUS-EZ 1/4"x2 5/8" SCREW ANCHORS TO CMU WALL PER ESR-3056.
CONC WALL CONN. -	USE HILTI HUS-EZ 1/4"x2 5/8" SCREW ANCHORS TO CONC. WALL PER ESR-3027.



### CABINET CONDUIT PROFILE

### CABINET PROFILES



### OPTIONAL CABINET 575V PROFILES

#### General Notes

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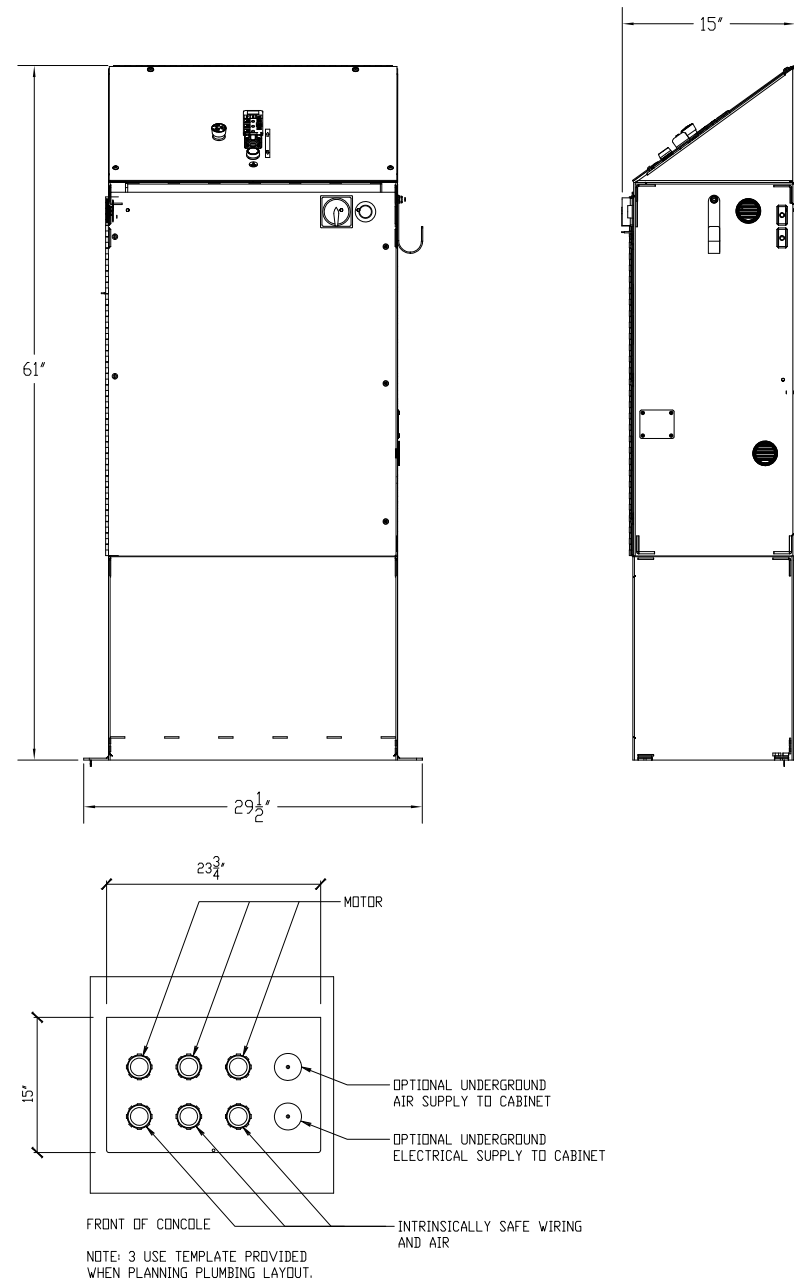
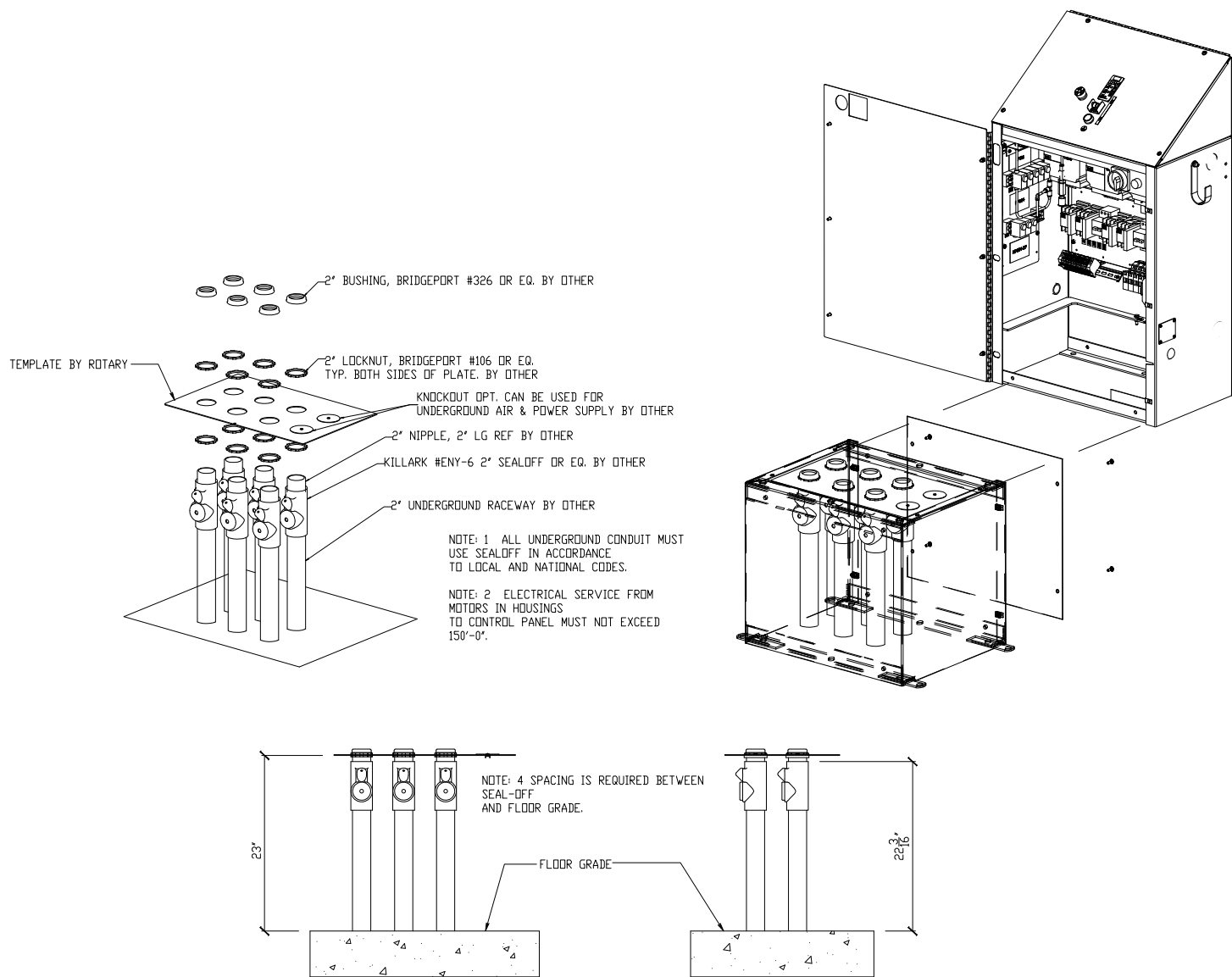


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PROJECT NAME

MOD35 SERIES  
CONTROL CABINET  
OPTION "A"

Drawing Number SPEC0252-7	Sheet 7 OF 10
Date 5.7.14	
Scale NONE	



General Notes

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PROJECT NAME

MOD35 SERIES  
CONTROL CABINET  
OPTION "B"

Drawing Number SPEC0252-8	Sheet 8 OF 10
Date 12.5.16	
Scale NONE	

Instructions to Installers of Rotary Lift MOD35 Series

EQUIPMENT DESCRIPTION  
(By Rotary Lift: how it functions, what its capacity is, features, etc.)

PROJECT DESCRIPTION  
This lift may be installed in a new construction or a retrofit environment. These instructions are tailored specifically to a retrofit installation, though the procedures would be similar in either environment. The installer is responsible to adapt these instructions to the site-specific installation and conditions. Any questions concerning the adaptation should be addressed to Rotary Lift Tech Support.

This “Project” entails the following scope of work:

- Examination of the existing site to confirm that the soil condition is adequate to support the necessary loading.
- Determination of whether there are any underground or overhead utilities that might interfere with the construction or use of the lift.
- Layout, saw-cutting and demolition of the existing concrete flooring. Slab thickness will vary from site to site.
- Excavation of a trench approximately 5’-0” wide by approximately 6’-6” deep. Length will vary by specific model type.
- Placing the lift housings in the pit and backfilling with stone.
- Placing a concrete slab / foundation around the unit.
- Epoxy-anchoring the new slab to the existing slab-on-grade.
- Making necessary electrical connections and placing the control console.

Rotary Lift will make available the following reference drawings:

#### SCOPE OF WORK

1. Before beginning any work, become thoroughly familiar with the installation requirements. Have lift components and rebar on site before opening slab or trench to minimize time the trench must be left open. The lift can be installed in a variety of configurations depending on the desired minimum wheel base. Determine the appropriate minimum wheelbase dimension for this installation, then confirm the measurements that are model dependent.
  - a) Confirm that permitting is not required by the local Building Official having jurisdiction over this installation location.
2. Perform a pre-construction kick-off meeting with the Owner to review the following, prior to commencement of work:
  - a) Review assumptions and procedure for communicating any deviations between the unforeseen existing conditions and the assumptions.
  - b) Coordinate with Owner where debris and/or dumpsters can be stored.
  - c) Review construction schedule.
  - d) Review safety protocols.
  - e) Review how the construction process will impact existing/adjacent operations (if any).
3. Layout lines for placement of lift. Determine where control console is to be placed. Layout lines for trench for control conduits.
4. Use ground penetrating radar or other means to determine whether there are any underground utilities or obstructions in the layout area. If anything is identified under the proposed slab cut out area, contact Rotary Lift Technical support for additional information.
5. Confirm that soil bearing capacity is at least 3000 #/sf.

6. Saw cut and remove areas of concrete slab using wet saw equipment, including trench for control conduits. Control slurry runoff and clean area after cutting, do not allow slurry to run into drainage systems. Avoid overcutting as much as possible and repair any overcuts that are necessary. Cut slab into panels of sizes that can be lifted safely. Do not break slab in place to avoid disturbing the sub grade stone compaction and minimize dust.
7. Excavate trench for placement of lift equipment. Trench will be approximately 5’-0” wide by approximately 6’-6” deep. Most installations will use only one trench full length of cut out area. In installations where the minimum wheelbase is greater than 156” the Contractor may choose to excavate separate trenches for the rear housing and the front housing. If using two trenches, Contractor will be responsible to modify rebar layout according.
8. Rotary Lift MOD35 Series is designed to minimize or eliminate the need to place a man in the excavated trench. Become thoroughly familiar with OSHA requirements for trenching and excavation. (Ref. OSHA 29 CFR 1926.650 – 1926.652 and others)
9. Rig the housing for the rear lift unit and suspend vertically. Tie rebar as indicated on the installation drawings to the bottom of the lift housings. Lower the Housing into the pit and hang from a Contractor supplied 6” steel beam(s). (Ref. OSHA 1626.1400 ©8 and 1926 Subpart CC (1400) and others for information on rigging and lifting)
10. Repeat Step 9 for the front lift housing. Note that the rebar on the bottom of the rear housing and the rebar on the bottom of the front housing are not tied together.
11. Suspend front and rear housing units from 6” beams (Contractor supplied) spanning width of excavation as indicated in drawing 2. Beam must be placed in diagonal orientation as indicated in drawing 2 to prevent rotation of housings.
12. Level and align both units checking the placement for level and plumb. (Note: the left-right placement must be level. The longitudinal placement may have up to 1/16” slope per foot if level is not practical.)
13. Once both housings are in place and checked, place the concrete base under the lift housings. See Sheet 9 for mix designs. Vibrate to ensure the concrete flows under and to the center of the housing.
14. Ensure grade compaction under proposed slab / foundation.
15. Backfill around all sides of both housings with pea gravel stone. Place 2” rigid insulation at top of pea gravel stone.
16. Drill existing slab for dowels according to the drawings. Place rebar according to the drawings, epoxy the dowels into the existing slab.
17. Run conduits for control console.
18. Place and finish concrete slab/foundation mat according to the drawings. Match finish of adjacent existing slab floor. See Sheet 9 for concrete mix designs.
19. Place control console and make all necessary connections to provide a complete operational unit.
20. Start-up and ensure proper function of equipment.

General Notes			
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PROJECT NAME	
INSTALLERS SCOPE OF WORK	
Drawing Number SPEC0252-9	Sheet
Date 5.7.14	9 OF 10
Scale NONE	

PRESITE EVALUATION AND EXCAVATION NOTES:

1.) LOCAL SOILS ENGINEER MUST OBSERVE AND/OR TEST SOIL AT SITE SPECIFIC INDIVIDUAL JOB AND CERTIFY SOIL IS GOOD FOR AT LEAST 3000 PSF BRG. CAPACITY.

CONCRETE REINFORCEMENT SIZES AND REINFORCEMENT SPECIFICATIONS FOR THE SIDE WALLS AND BASE OF THE TRENCHES, NORMAL AND SEISMIC CONDITIONS, SHALL BE DETERMINED BY AN ARCHITECT OR ENGINEER AND SHALL BE DETERMINED CONSIDERING THE SOIL CONDITIONS AT THE SITE AND THE APPLIED LOADING. AS A MINIMUM GRADE 60 DEFORMED REINFORCING BARS OF SIZES AND SPACINGS SHOWN IN THE DRAWING SHALL BE USED.

CONCRETE REINFORCEMENT SPECIFICATIONS FOR THE FLOOR SLAB AROUND THE TRENCH SHALL BE DETERMINED BY THE ARCHITECT OR ENGINEER AND SHOULD BE DETERMINED CONSIDERING THE SOIL CONDITIONS AND THE APPLIED VEHICLE LOADING. AS A MINIMUM, GRADE 60–6X6 10/10 WELDING WIRE FABRIC SHALL BE USED AROUND THE VICINITY OF THE LIFT TRENCH.

2.) BEFORE DIGGING REVIEW OSHA 29 CFR 1926.650–1926.652 ON TRENCHING AND EXCAVATION.

3.) CONCRETE MIX DESIGN SPECIFICATIONS:  
MIN. 28 DAY COMPRESSIVE STRENGTH, f'c=4000psi  
SLUMP=4" (MAY BE 6" WITH SUPERPLASTICZER)  
MAX. WATER/CEMENT RATIO 0.50  
MAX. AGG. SIZE=3/4"

4.) PROVIDE TEMPORARY PLUGS OR CAPS FOR ALL SERVICE CONDUIT OPENINGS.

5.) ONE 2" ELECTRICAL UNDERGROUND CONDUIT OR RACEWAY PER HOUSING MUST BE PROVIDED AS A SERVICE SUPPLY CONDUIT RUNNING FROM THE CONTROL PANEL LOCATION TO THE DESIRED LOCATION FOR THE EXPLOSION PROOF MOTORS. A MAXIMUM OF FOUR 90 DEGREE BENDS MAY BE USED.

6.) ONE 2" ELECTRICAL UNDERGROUND CONDUIT OR RACEWAY PER HOUSING FOR INTRINSICALLY SAFE CONTROL WIRES AND AIRLINES. A MAXIMUM OF FOUR 90 DEGREE BENDS MAY BE USED. THE CONDUIT SHOULD BE INSTALLED ACCORDING TO LOCAL ELECTRICAL CODES.

7.) TWO 2" CONDUITS MAY BE PROVIDED UNDER THE FLOOR FROM THE BUILDING POWER SUPPLY TO THE CONTROL PANEL LOCATION. ONE CONDUIT MAY BE USED FOR POWER SUPPLY AND THE OTHER SHOP AIR SUPPLY. ALTERNATIVELY THESE SUPPLY CONDUITS MAY BE BROUGHT TO THE CONTROL PANEL LOCATION OVERHEAD. THESE CONDUIT SHOULD BE INSTALLED ACCORDING TO LOCAL CODES.

8.) A FUSED ELECTRICAL DISCONNECT AND AN AIR FILTER/REGULATOR/ LUBRICATOR ARE REQUIRED TO BE INSTALLED AT THE CONTROL PANEL FOR INCOMING POWER AND AIR. THESE ARE SUPPLIED BY THE GENERAL CONTRACTOR.

9.) AIR CONSUMPTION REQUIREMENT 5 CFM @ 90 to 110 P.S.I.

10.) INTRINSICALLY SAFE CONTROL WIRING MUST BE SEPARATED FROM NONINTRINSICALLY SAFE WIRES BY A MINIMUM OF 2".


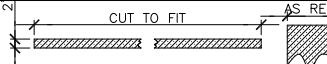
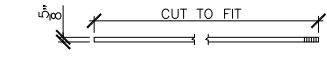
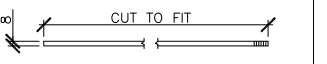
11.) CONTACT ROTARY LIFT FOR APPROVAL PRIOR TO INSTALLATION, OF ANY DEVIATION FROM THESE REQUIREMENTS.

12.) ANY ADDITIONAL COMPONENTS (NOT LISTED IN TABLES) NEEDED TO INSTALL LIFT TO MEET LOCAL CODES MUST ALSO BE PROVIDED BY GENERAL CONTRACTOR.

13.) ALL ELECTRICAL WORK MUST BE DONE BY A QUALIFIED ELECTRICIAN ADHERING TO ALL, LOCAL, STATE, AND NATIONAL CODES.

14.) THIS LIFT IS SUPPLIED WITH TYPE MC–HL CABLE. THE USE OF MC–HL CABLE WILL GENERALLY REQUIRE DISCUSSION WITH LOCAL INSPECTION AUTHORITIES TO ASSURE CLEAR UNDERSTANDING OF PERMITTED AREAS.

NOTE:  
IF THE ENVIROGUARD IS DAMAGED IN THE FIELD,100% SOLIDS POLYURETHANE CAULK IS AN APPROPRIATE REPAIR FOR MINOR DAMAGE. WE RECOMMEND THAT THE DAMAGED AREA BE LIMITED TO 1"x6" TO BE REPAIRED THIS WAY. THE PRODUCT CAN BE SPREAD OVER THE DAMAGED AREA AND ALLOWED TO SET. FOLLOW MANUFACTURE'S INSTRUCTIONS FOR THIS PROCEDURE. IF THERE IS ANY METAL DAMAGE, IT MUST BE CLEANED. REMOVE ANY RUST AND WIPE WITH ACETONE BEFORE APPLYING CAULK. LET MATERIAL CURE PRIOR TO HANDLING THE UNIT. PLEASE NOTE THAT THE POLYURETHANE WILL ONLY HELP IN ALLOWING THE UNIT TO BE WATERPROOF. IT WILL NOT PROVIDE ANY IMPACT OR ABRASION PROTECTION. ROTARY LIFT MAKES NO REPRESENTATION OR WARRANTY REGARDING THIS PRODUCT.

ITEM	EXCAVATION SCHEDULE FOR FRONT HOUSING PROVIDED BY CONTRACTOR	
1		PEA GRAVEL FOR FILL
2		2" x REQD RIDGID INSULATION ON TOP OF PEA GRAVEL AROUND HOUSING
ITEM	REBAR SCHEDULE FOR FLOOR GRADE HOUSINGS PROVIDED BY CONTRACTOR	
1		#5 DOWELS (A36 THD. ROD OR A615 REBAR) @ 16" O.C. DRILLED INTO EDGE OF EXIST. SLAB AND SET IN EPOXY MIN. EMBEDMENT: 6" OR, FOR NEW CONSTRUCTION: CONTINUE SLAB REINFORCEMENT; MESH OR REBAR MAT INTO LIFT POUR PROVIDED BY CONTRACTOR CAN SUBSTITUTE WITH ASTM A497 "WWR 6" X 6"–D15.5 X D15.5" NEW FLOOR WILL STILL HAVE TO BE KEYED INTO EXISTING FLOOR IF ROLL MATTING IS USED
	BOTTOM REBAR SCHEDULE SLAB PROVIDED BY CONTRACTOR	
1		BOTTOM REBAR DETAIL: #5 (A36 THD. ROD OR A615 REBAR) STATIONARY HOUSING + 18'–0" MOVABLE HOUSING = 242 LINEAR FEET OF #5 REBAR (13) 20'–0" PIECES)

NOTE: THIS LAYOUT IS FOR AN ALLOWABLE BEARING PRESSURE OF 3000 PSF MINIMUM AT BOTH TOP AND BOTTOM SLABS

General Notes

NOTES: TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS (EFR) CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO CONFIRM LATEST REVISION  
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C	11115	10.31.19	LK/EMS
B	9903.4	12.5.16	LK/GDL
A	8581.48	1.8.15	LK/AJ
–	8581.32	5.7.14	THP/LK
REV	CO NUM	DATE	BY



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PROJECT NAME

MOD35 SERIES  
PRESITE EVALUATION  
AND EXCAVATION NOTES

Drawing Number	Sheet
SPEC0252–10	10 OF 10
Date	
12.5.16	
Scale	
NONE	