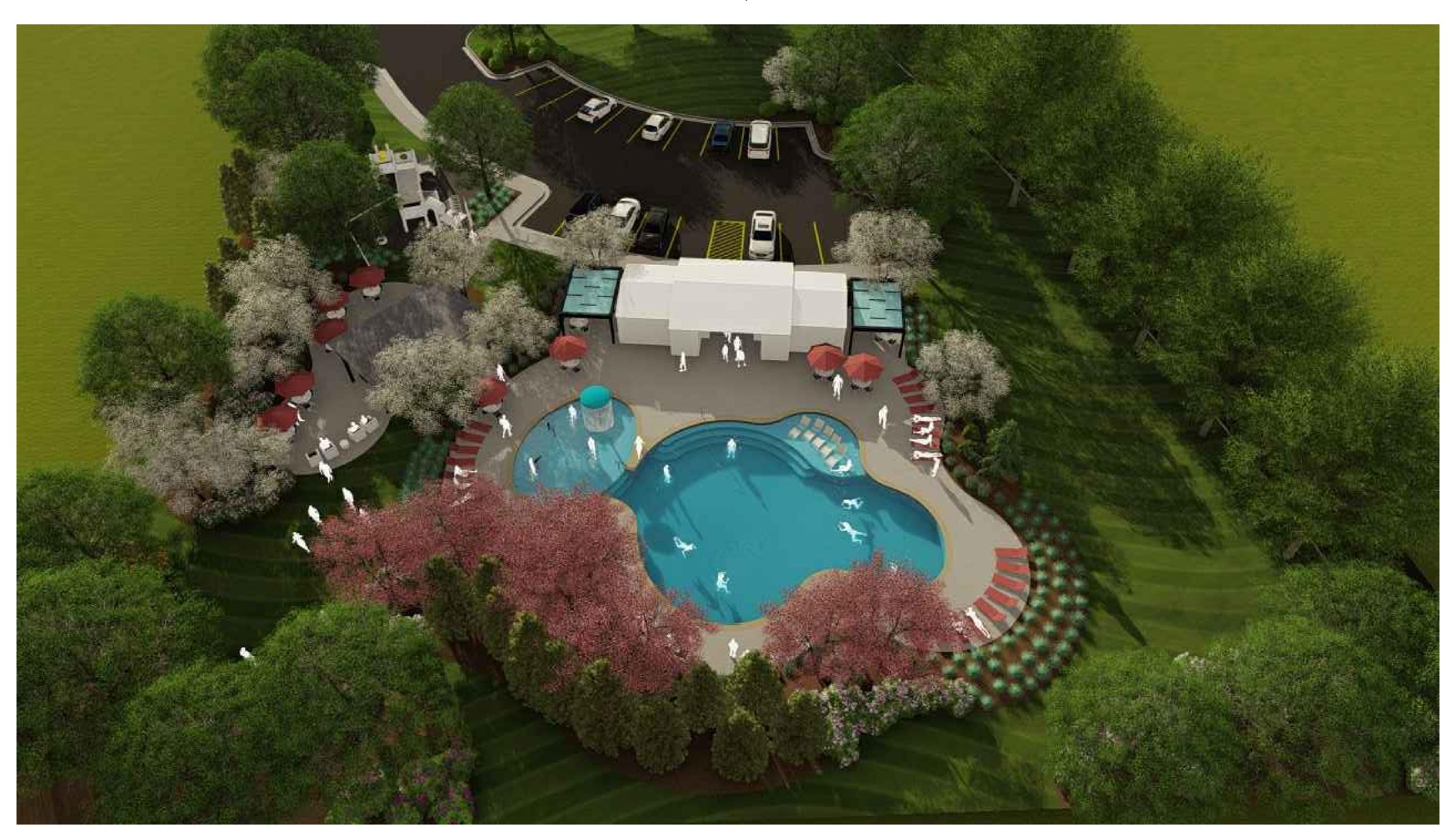
SUMMIT VIEW FARMS

POOL CONSTRUCTION DOCUMENTS LEE'S SUMMIT, MISSOURI



THE ABOVE ILLUSTRATION IS AN ARTIST'S REPRESENTATION AND DOES NOT INDICATE FINAL DESIGN

CONSTRUCTION DOCUMENTS

FEBRUARY 23, 2021 PREPARED BY:



8021 SANTA FE DRIVE, SUITE 200 OVERLAND PARK, KS 66204 913.972.7244 WWW.LORAXDESIGNGROUP.COM

SHEET INDEX

L302

W001

W002 W003

W004

O			
L100	SITE REFERENCE PLAN	W101	POOL STRUCTURAL NOTES
L101	LAYOUT PLAN - POOL DECK	W102	TYPICAL POOL STRUCTURAL DETAIL
L102	LAYOUT PLAN - GRILL PATIO	W103	POOL DETAILS
L103	GRADING PLAN - POOL DECK	W104	POOL DETAILS
L104	GRADING PLAN - GRILL PATIO	W105	POOL DETAILS
L105	SCORE JOINT PLAN	W106	POOL DETAILS
L201	SITE DETAILS	W107	POOL DETAILS
L202	SITE DETAILS		
L203	SITE DETAILS		
L301	LANDSCAPE PLAN		

LANDSCAPE NOTES AND DETAILS

POOL LAYOUT PLAN

POOL CONTOURING PLAN

POOL ELECTRICAL PLAN

POOL PLUMBING PLAN



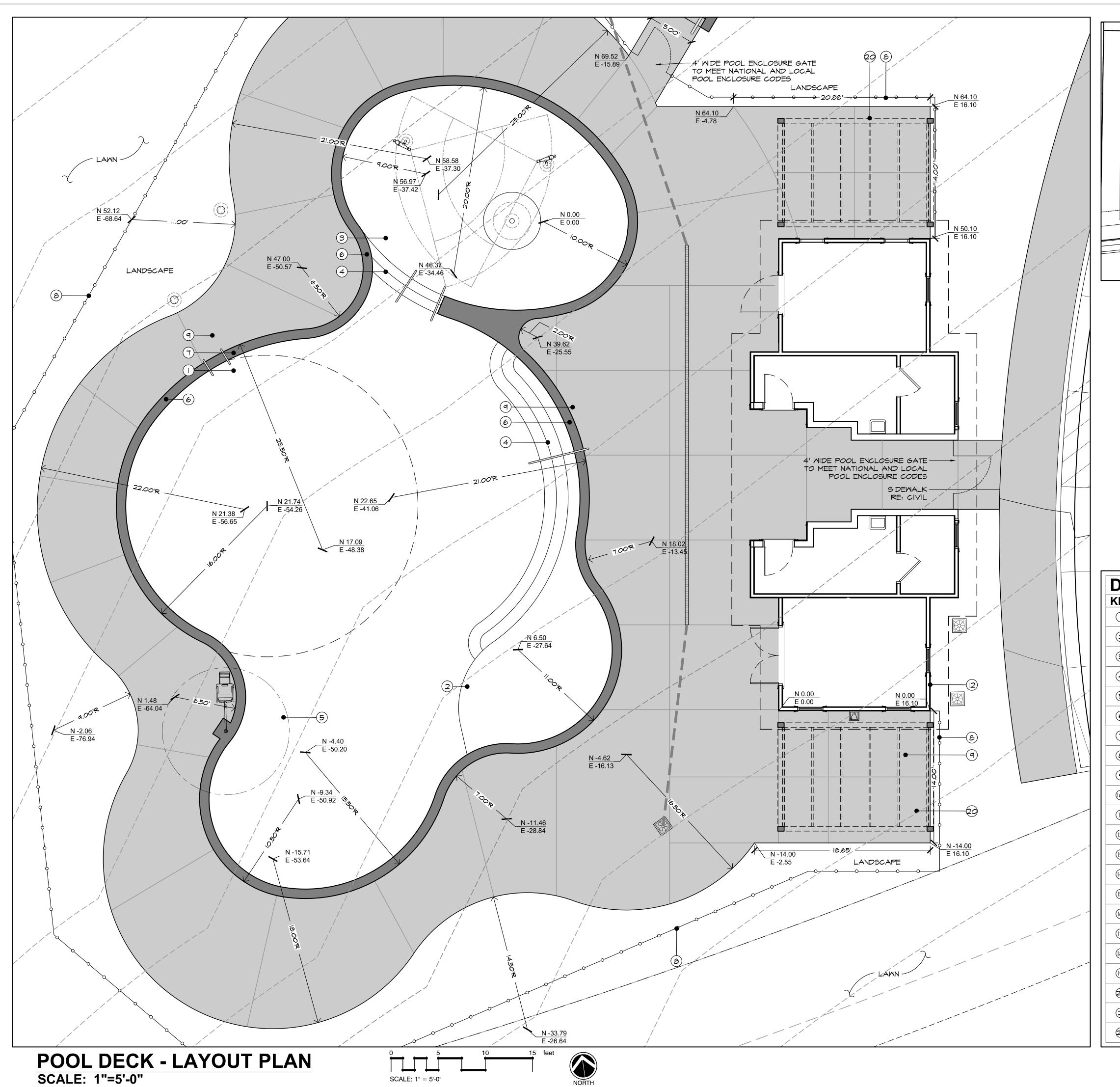


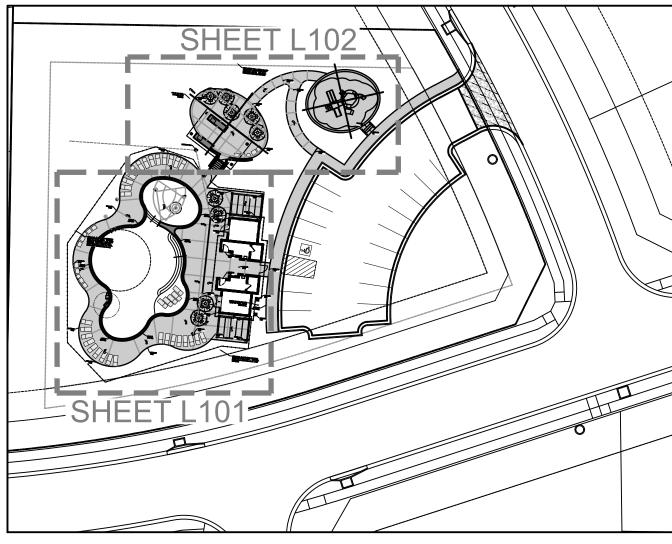
SUMMIT VIEW FARM
POOL CONSTRUCTION DOCUMENTS

REVISION:

FEBRUARY 23, 2021 SITE REFERENCE PLAN

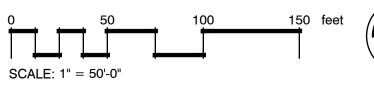
L100





SITE REFERENCE PLAN

SCALE: 1"=50'-0"



LEGEND



GENERAL NOTES

I. ANY MASONRY WORK DONE WITHIN 5' OF THE WATERS EDGE SHALL HAVE LATICRETE ADDED

- 2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
- 3. N&E BASED ON SOUTH WEST CORNER OF BUILDING

DETAILS LEGEND				
KEY	DETAIL	DESCRIPTION	SHEET	
	SWIMMING POOL	2,112 SF SHOTCRETE SWIMMING POOL	MOOI-MI06	
2	ENTRY REEF - ADULT	265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	5/WI <i>0</i> 3	
3	ENTRY REEF - CHILDREN'S SPLASH PAD	556 SF ENTRY REEF W/ WATER FEATURE EQUIPMENT, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	MIOS	
4	SWIMMING POOL STEPS W/ HANDRAIL	SHOTCRETE STEPS W/ 3" WIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER ALONG HORIZONTAL EDGE OF EACH RISER	4 WI03	
(5)	POOL LIFT	ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL NOT EXCEED 48" AT LIFT LOCATION	10 W105	
6	POOL COPING	CIP STEGMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM	6 WI03	
7	POOL LADDER	SWIMMING POOL LADDER FOR POOL EGRESS	1 MI <i>0</i> 5	
(3)	POOL ENCLOSURE FENCE	5' HT. BLACK POMDER COATED STEEL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN	12,13 L201	
9	POOL DECK	GREY, BROOM FINISHED CONCRETE POOL DECK	1-4 L201	
(o)	GRILL STATION	BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP & THIN STONE VENEER BASE	L202-L203	
	POOL EQUIPMENT ROOM	RE: PLUMBING PLANS	W004	
(12)	CABANA STRUCTURE	RE: ARCH	RE: ARCH	
(3)	SHADE STRUCTURE	SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS	L203	
(14)	LANDSCAPE AREA DRAIN	AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP	8 L201	
(15)	HARDSCAPE AREA DRAIN	AREA DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER	6 L201	
6	LINEAR DRAIN	IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER	6 L201	
(17)	TRASH RECEPTACLE	BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON	-	
(8)	PLAYGROUND	PB20-71907 PLAYGROUNHD BY LITTLE TIKES COMMERCIAL	4 L204	
(19)	PLAYGROUND SURFACE	ARTIFICIAL LAWN PLAYGROUND SURFACE BY FOREVER LAWN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SURROUND WITH CONCRETE BAND	-	
20	PERGOLA STRUCTURE	STEEL & FABRIC PERGOLA STRUCTURE	L202	
21)	RETAINING WALL	CONCRETE RETAINING WALL WITH OPTIONAL STONE VENEER AND PRECAST CAP	 L204	
22	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204	

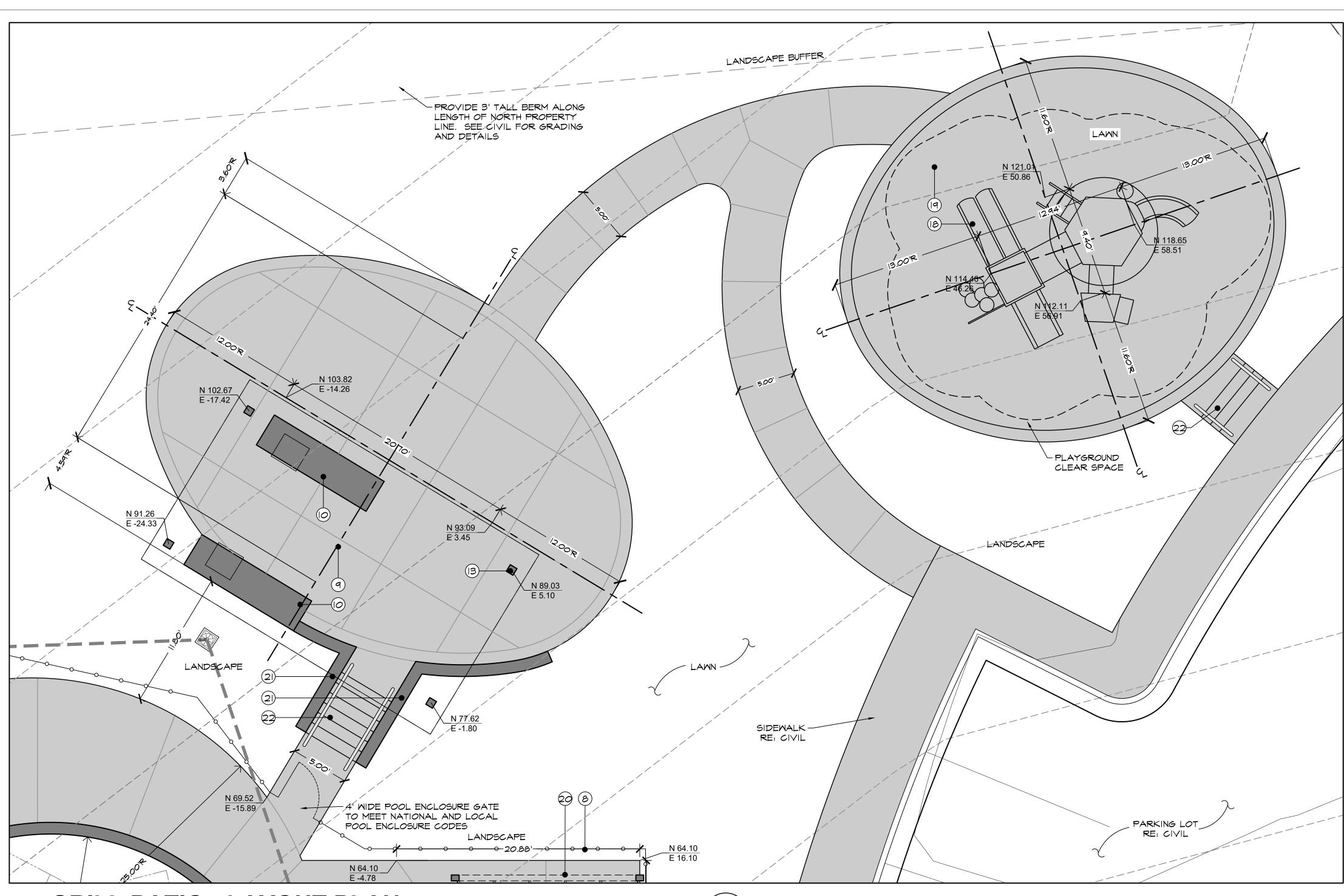


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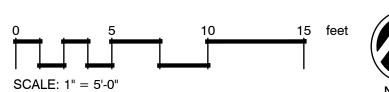


REVISION:	
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FEBRUARY 23, 2021 POOL DECK -LAYOUT PLAN









LEGEND

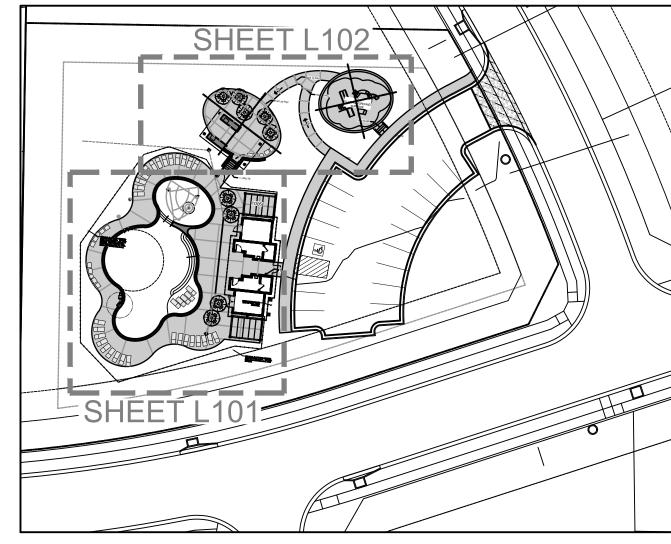


GENERAL NOTES

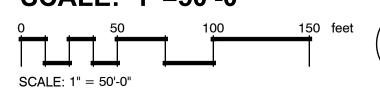
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2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

3. N&E BASED ON SOUTH WEST CORNER OF BUILDING



SITE REFERENCE PLAN SCALE: 1"=50'-0"



	TAILS LE	GLND	
KEY	DETAIL	DESCRIPTION	SHEET
	SMIMMING POOL	2,112 SF SHOTCRETE SWIMMING POOL	MOOI-MI06
2	ENTRY REEF - ADULT	265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	5/WI03
3	ENTRY REEF - CHILDREN'S SPLASH PAD	556 SF ENTRY REEF W/ WATER FEATURE EQUIPMENT, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	MIOS
4	SMIMMING POOL STEPS W/ HANDRAIL	SHOTCRETE STEPS W/ 3" WIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER ALONG HORIZONTAL EDGE OF EACH RISER	4 MI <i>0</i> 3
5	POOL LIFT	ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL NOT EXCEED 48" AT LIFT LOCATION	10 W105
6	POOL COPING	CIP STEGMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM	6 WI <i>0</i> 3
7	POOL LADDER	SMIMMING POOL LADDER FOR POOL EGRESS	 MI <i>0</i> 5
8	POOL ENCLOSURE FENCE	5' HT. BLACK POWDER COATED STEEL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN	12,13 L201
9	POOL DECK	GREY, BROOM FINISHED CONCRETE POOL DECK	1-4 L201
0	GRILL STATION	BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP & THIN STONE VENEER BASE	L202-L203
	POOL EQUIPMENT ROOM	RE: PLUMBING PLANS	W004
(2)	CABANA STRUCTURE	RE: ARCH	RE: ARCH
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(17)	TRASH RECEPTACLE	BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON	-
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22	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204





SUMMIT VIEW FARMS POOL CONSTRUCTION DOCUMENTS

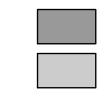
REVISION:

FEBRUARY 23, 2021 GRILL PATIO -LAYOUT PLAN

102

SCALE: 1" = 5'-0"

LEGEND



PAVEMENT

TRENCH DRAIN

AREA DRAIN

 $\xrightarrow{2\%}$ SLOPE AREA

ANNOTATION LEGEND

- FINISHED FLOOR ELEVATION - BASEMENT FLOOR ELEVATION

- TOP WALL - BOTTOM WALL

- TOP STEP BOTTOM STEP - DRAIN INLET - DRAIN RIM ELEVATION - PAYING ELEVATION

- TOP COPING - HIGH POINT - DOWN SPOUT - FINISHED GRADE THRESH - THRESHOLD ELEVATION

GENERAL NOTES

I. ANY MASONRY WORK DONE WITHIN 5' OF THE WATERS EDGE SHALL HAVE LATICRETE ADDED

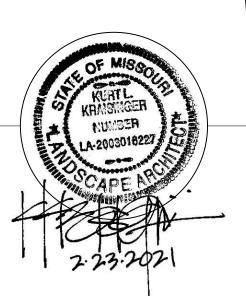
2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

3. ALL DRAINS SHALL TIE-IN TO CIVIL STORM SYSTEM. CONTRACTOR TO FIELD DETERMINE DRAIN INVERTS AND ENSURE POSITIVE DRAINAGE TO CIVIL STORM SYSTEM. COORDINATE WITH CIVIL



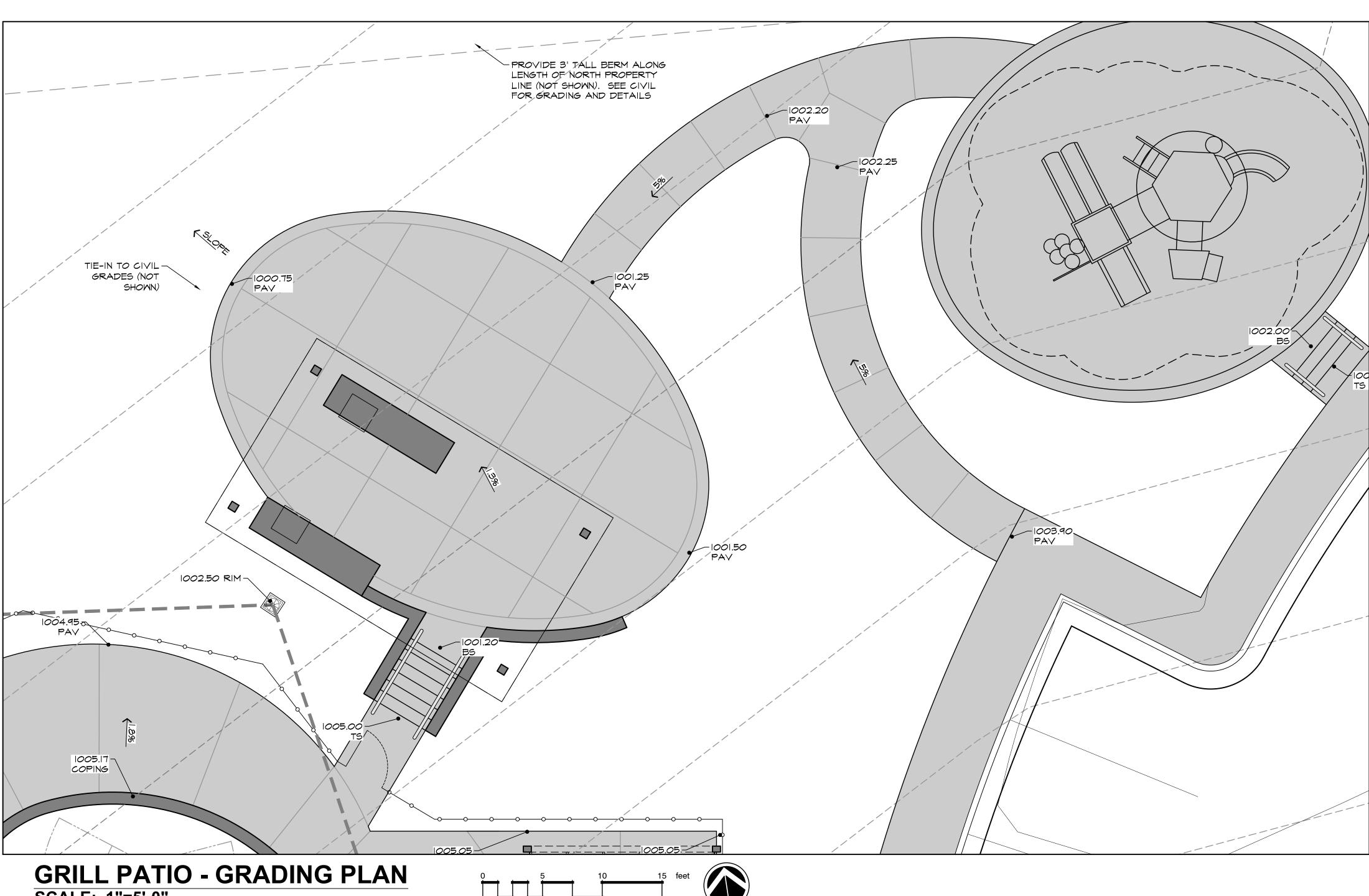
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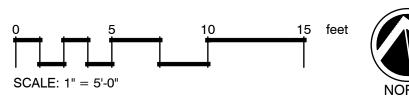


REVISION:

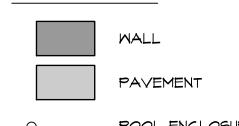
FEBRUARY 23, 2021 POOL DECK -GRADING PLAN



SCALE: 1"=5'-0"



LEGEND



TRENCH DRAIN

AREA DRAIN

 $\xrightarrow{2\%}$ SLOPE AREA

ANNOTATION LEGEND

- FINISHED FLOOR ELEVATION - BASEMENT FLOOR ELEVATION

- BOTTOM WALL - TOP STEP - BOTTOM STEP - DRAIN INLET - DRAIN RIM ELEVATION - PAVING ELEVATION

- TOP COPING - HIGH POINT - DOWN SPOUT - FINISHED GRADE THRESH - THRESHOLD ELEVATION

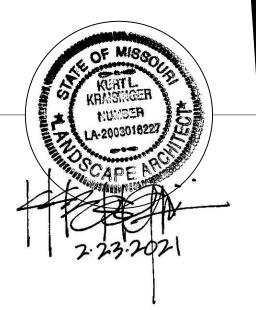
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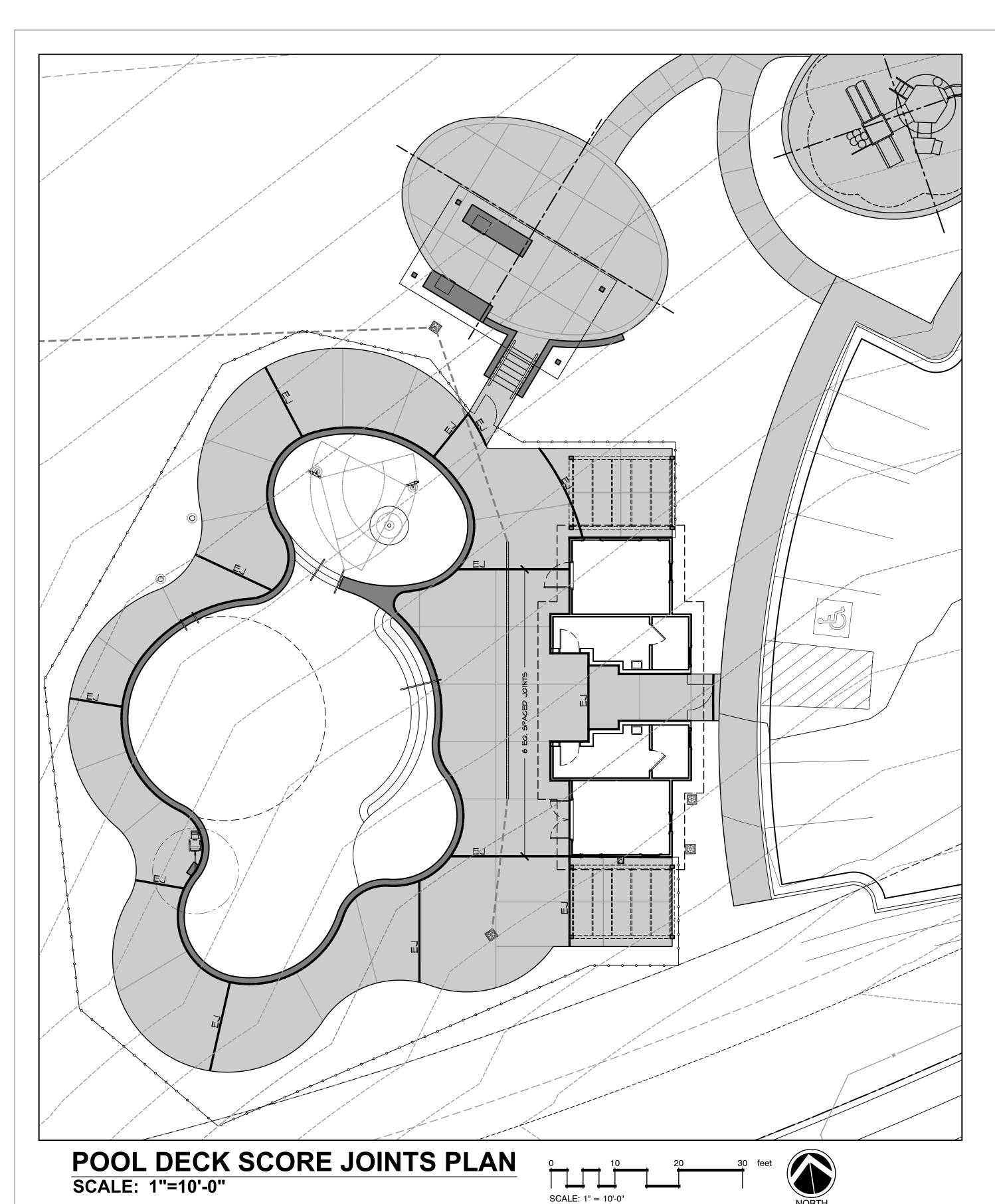
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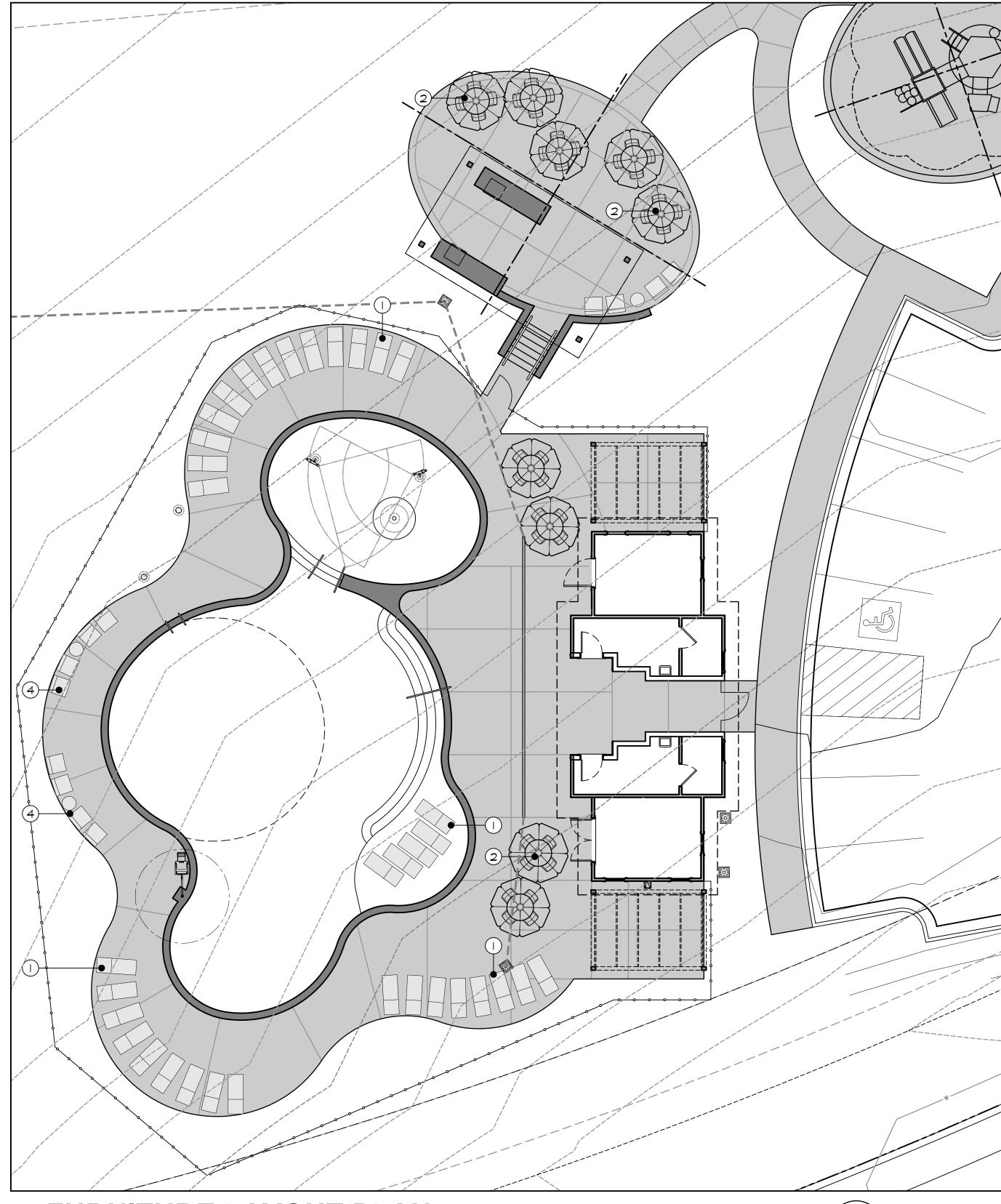




REVISION:

FEBRUARY 23, 2021 GRILL PATIO -GRADING PLAN





FURNITURE LAYOUT PLAN SCALE: 1"=10'-0"

DETAILS LEGEND

KEY DETAIL DESCRIPTION

| POOL FURNITURE - LOUNGE CHAIR | BY OWNER |

2 4-PERSON TABLE & CHAIRS W/ UMBRELLA | BY OWNMER |

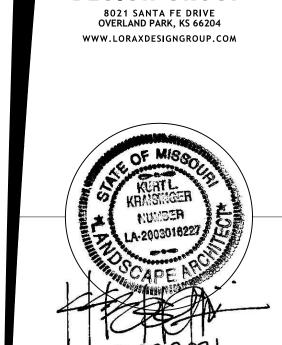
3 4-PERSON TABLE & BY OWNMER |

BY OWNMER

BY OWNMER

NOTES

FURNISHING SHOWN FOR PRICING PURPOSES ONLY.
VERIFY FINAL SELECTION W/ ARCHITECT



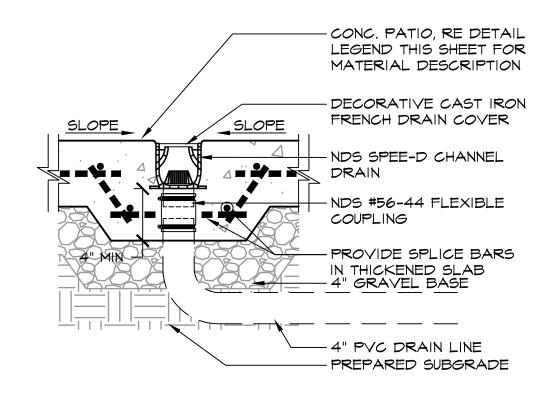
POOL CONSTRUCTION DOCUMENTS

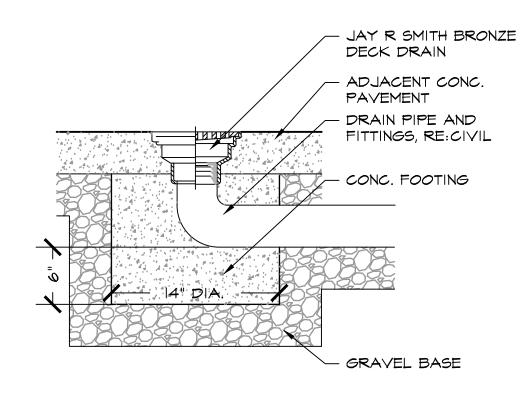
REVISION:

FEBRUARY 23, 2021
POOL DECK SCORE
JOINTS PLAN

L105

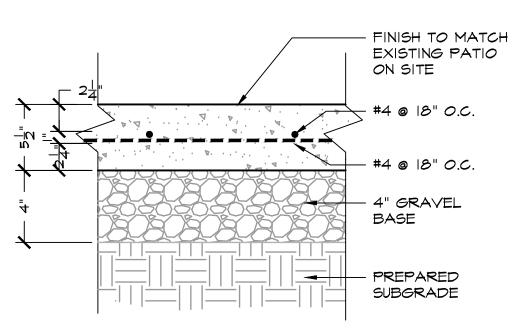
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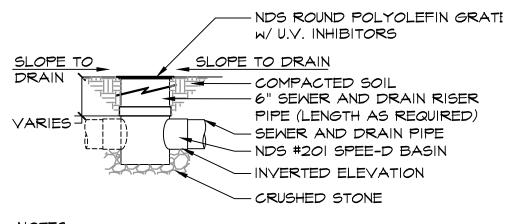


POOL DECK AREA DRAIN

SCALE: NTS



CONTINUOUS HIGH CHAIRS USED TO SET REBAR, CENTERED IN CONCRETE SLAB



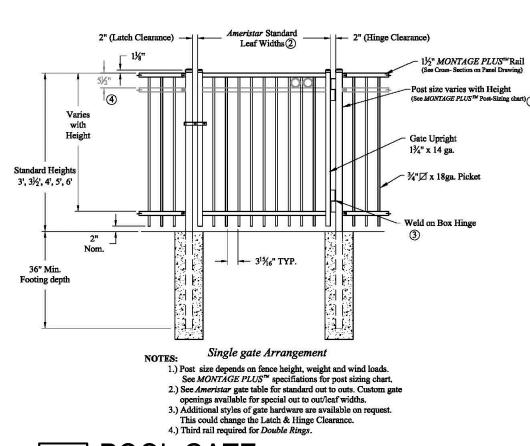
I.INSTALLATION TO BE COMPLETED IN ACCORDANCE W/ MANUFACTURER'S SPECIFICATIONS.

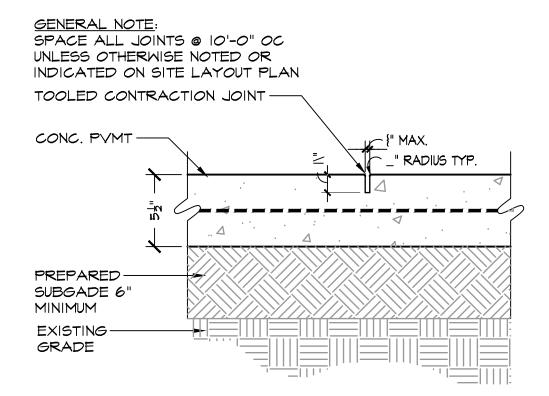
2. DO NOT SCALE DRAWING.

3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.

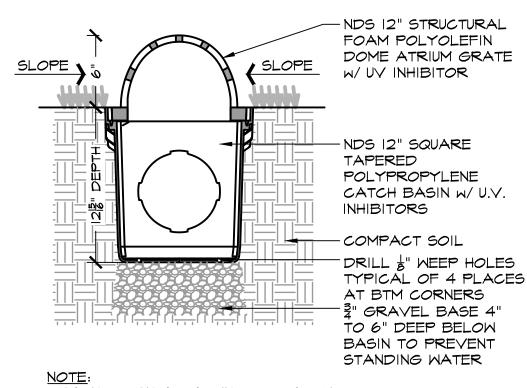
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

$\int SCALE: 1-1/2" = 1'-0"$



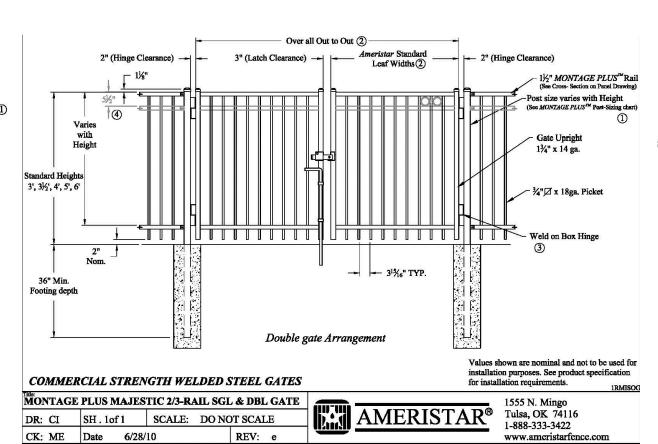


CONCRETE CONTRACTION JOINT SCALE: 1-1/2" = 1'-0"



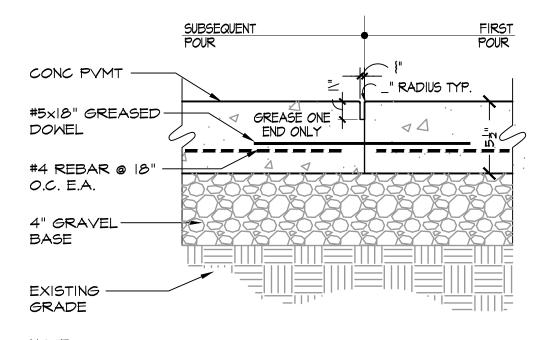
GRATE TO BE ATTACHED TO CATCH BASIN W/ SCREW PROVIDED AT TIME OF INSTALLATION

CATCH BASIN @ LANDSCAPE AREAS



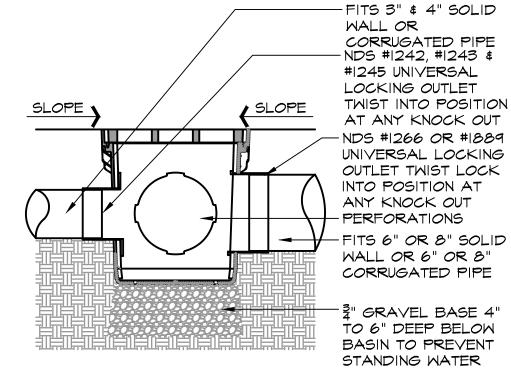
OUTWARD OPENING AWAY FROM POOL. SELF-CLOSING, SELF-LATCHING. DOUBLE GATE SHALL BE INSTALLED, 5' HT.

GENERAL NOTE: SPACE ALL JOINTS @ 10'-0" OC UNLESS OTHERWISE NOTED OR INDICATED ON SITE LAYOUT PLAN



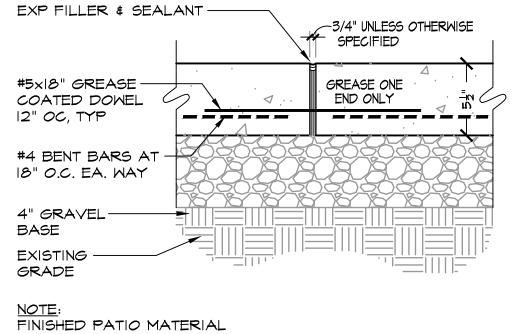
NOTE: FINISHED PATIO MATERIAL NOT SHOWN

SCALE: 1-1/2" = 1'-0"



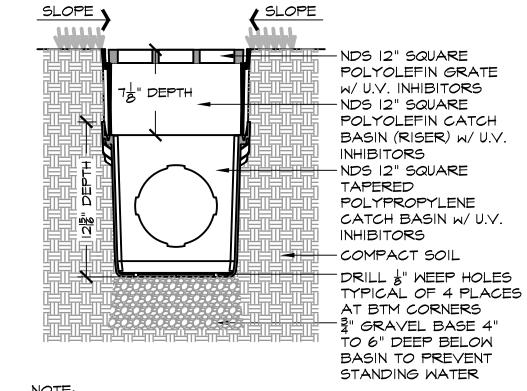
 NDS ADAPTERS THAT FIT THIS BASIN AREA AS FOLLOWS. #1242, #1243, #1245, #1266 \$ #1889 USE

#1206 IF PLUGGING AN OUTLET • PERFORATIONS ON NON OPEN SIDES AND BTM. TO BE CUT OUT WHEN ADDING EXTRA OUTLETS



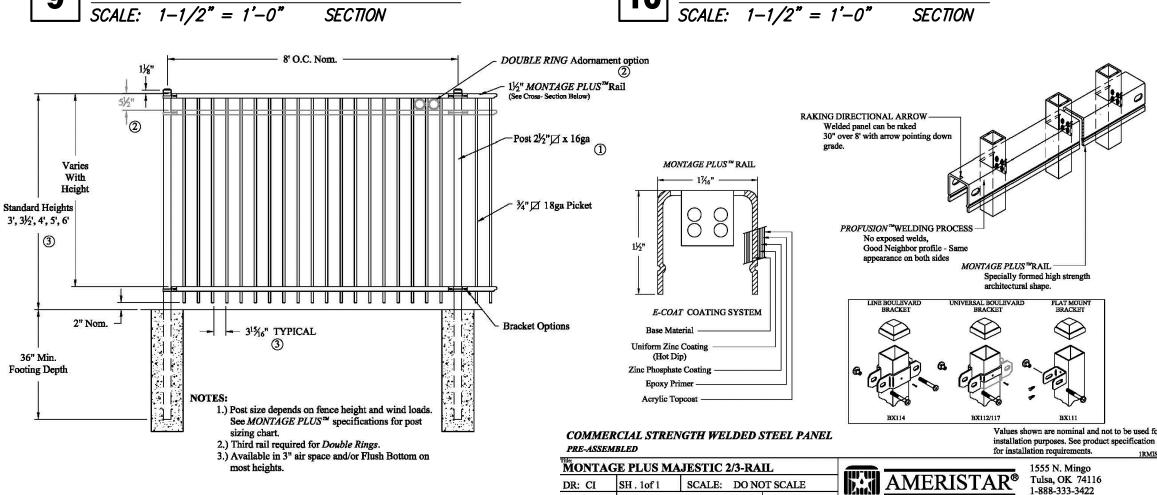
NOT SHOWN

GREASE DOWEL @ EXP JOINT SCALE: 1-1/2" = 1'-0"



• GRATE TO BE ATTACHED TO BASIN W/ SCREW PROVIDED AT TIME OF INSTALLATION RISER CAN BE CUT TO ACHIEVE EXACT ELEVATION

DO NOT USE OVER 5 RISERS W/ CATCH BASIN



13 POOL FENCING

REV: e CK: ME Date 6/28/10 5' HT. BLACK FENCE SUITABLE FOR POOL ENCLOSURE SHALL BE USED AT POOL DECK



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Missouri COA #001268

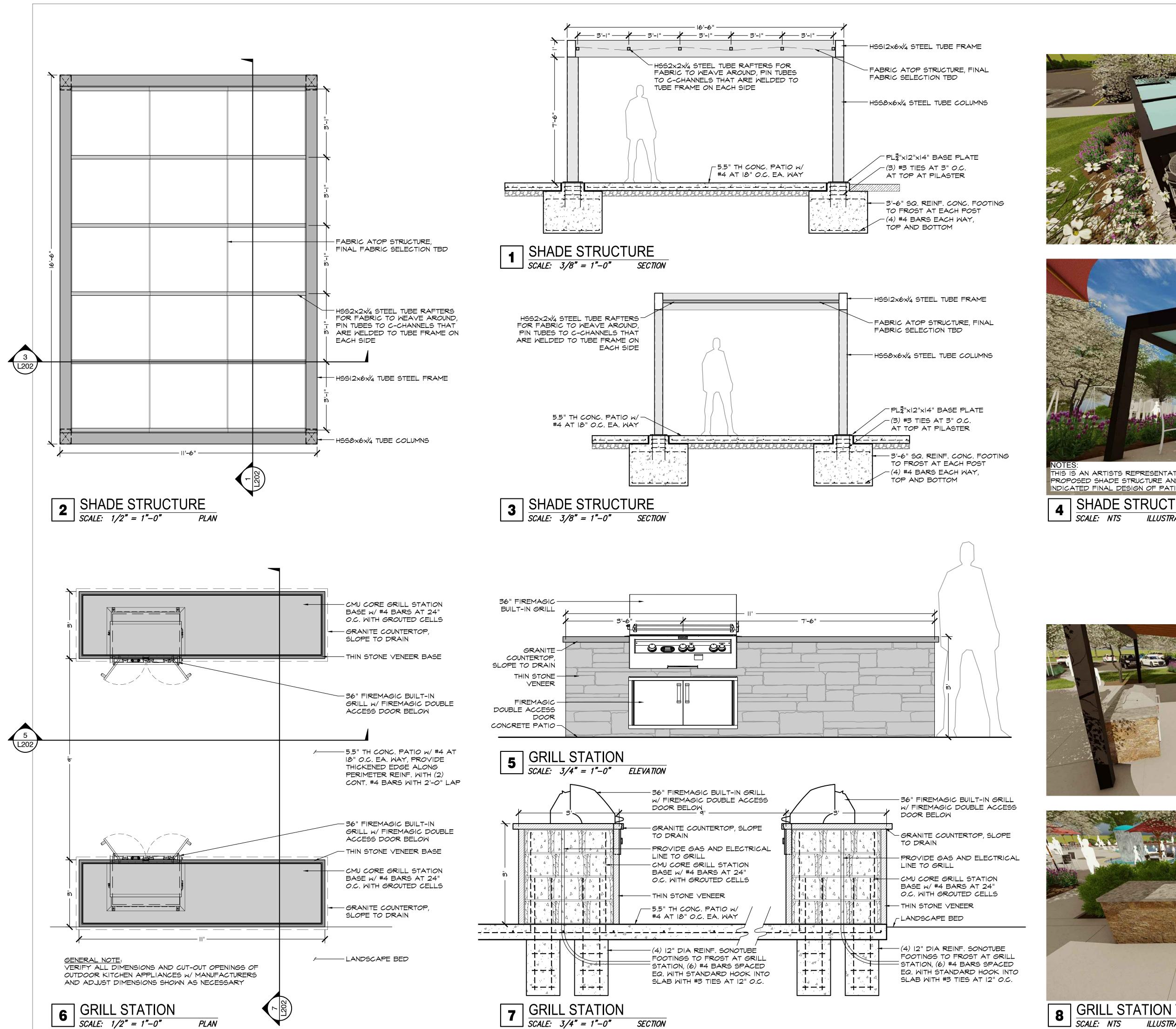
J R S

REVISION:

www.ameristarfence.com

FEBRUARY 23, 2021

SITE DETAILS







4 SHADE STRUCTURE VIGNETTE ILLUSTRATIVE VIEW





GRILL STATION VIGNETTE ILLUSTRATIVE VIEW

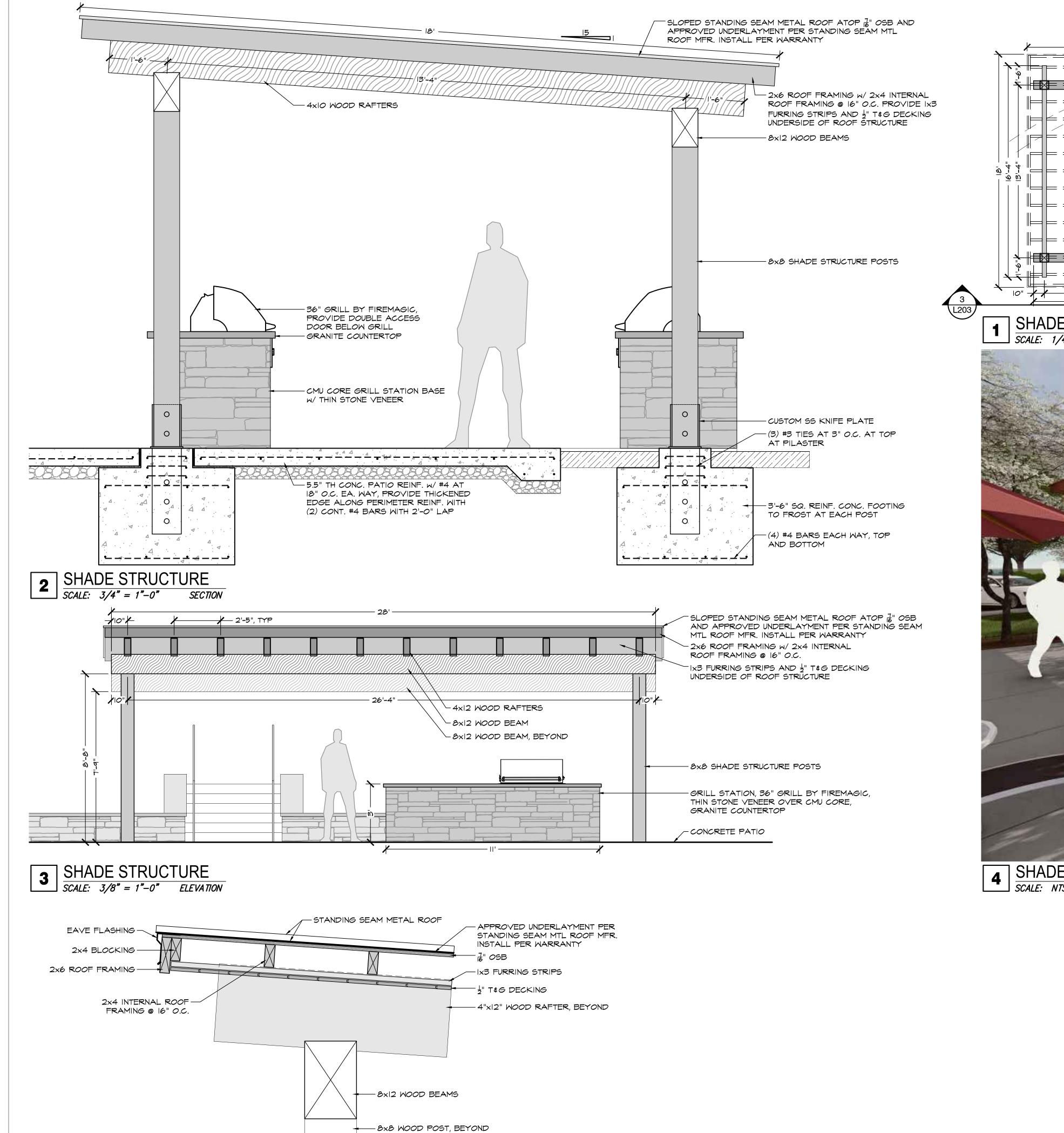
DESIGN GROUP 8021 SANTA FE DRIVE OVERLAND PARK, KS 66204 WWW.LORAXDESIGNGROUP.COM JAMES M. GRANICH NUMBER

PE-2014023909 Missouri COA #001268

REVISION:

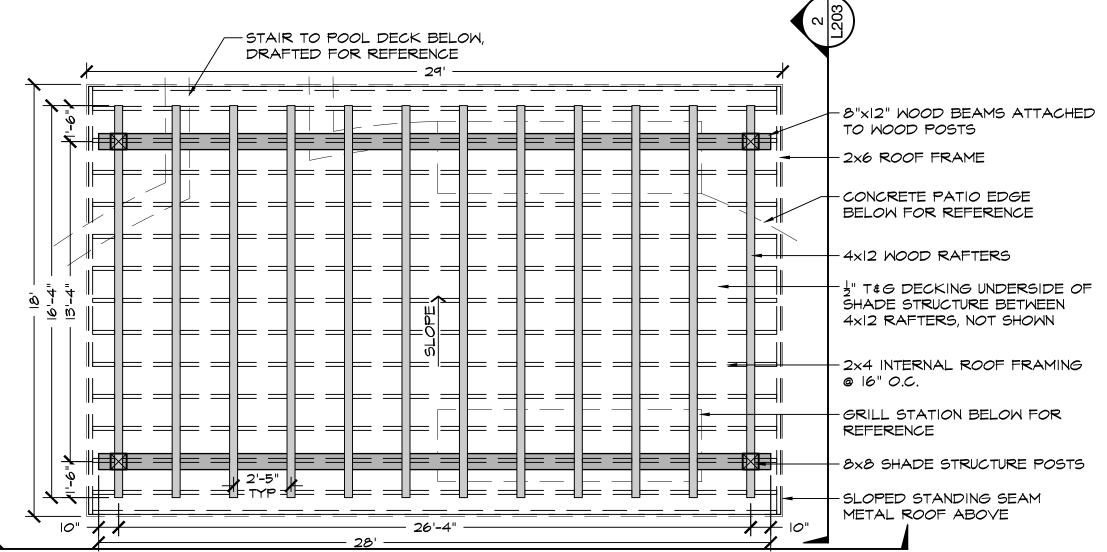
FEBRUARY 23, 2021

SITE DETAILS



SHADE STRUCTURE - ROOF

SCALE: 1-1/2" = 1"-0" SECTION



SHADE STRUCTURE

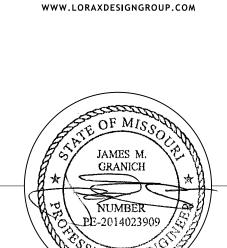
SCALE: 1/4" = 1"-0" PLAN



SHADE STRUCTURE VIGNETTE

SCALE: NTS ILLUSTRATIVE VIEW





DESIGN GROUP

8021 SANTA FE DRIVE
OVERLAND PARK, KS 66204

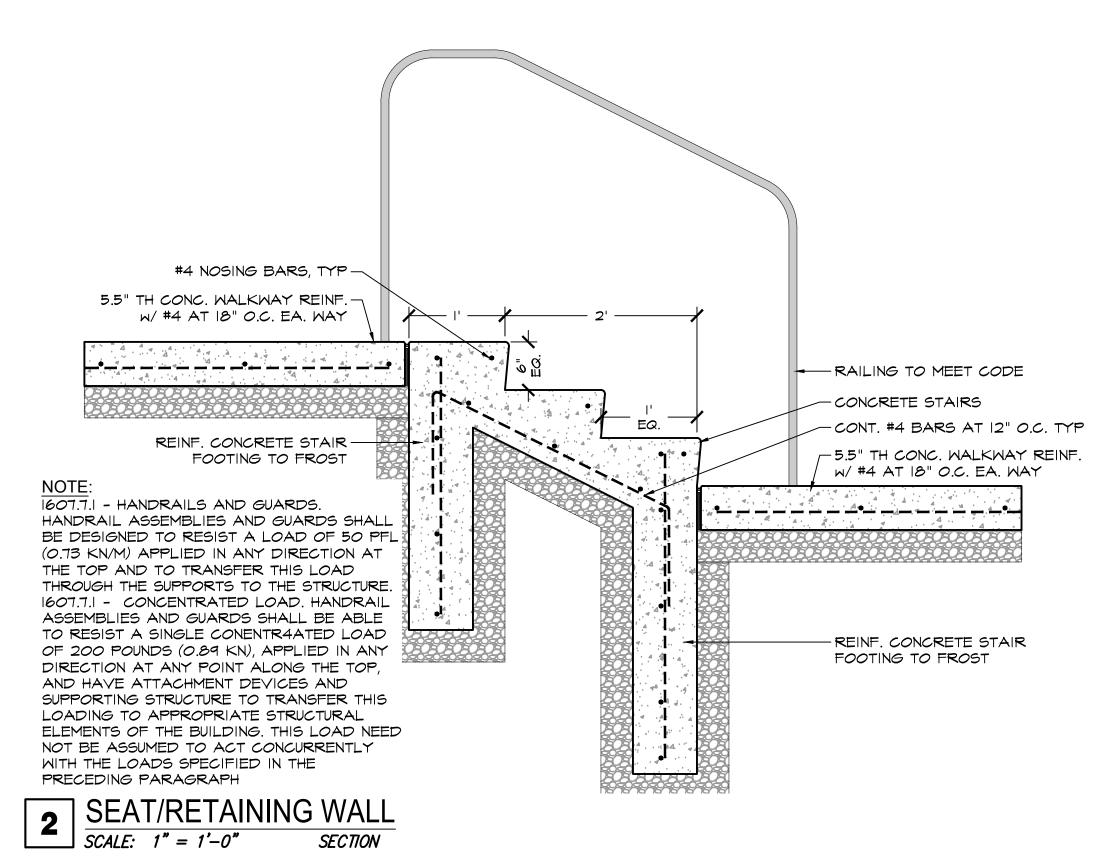
2/22/2021 Missouri COA #001268

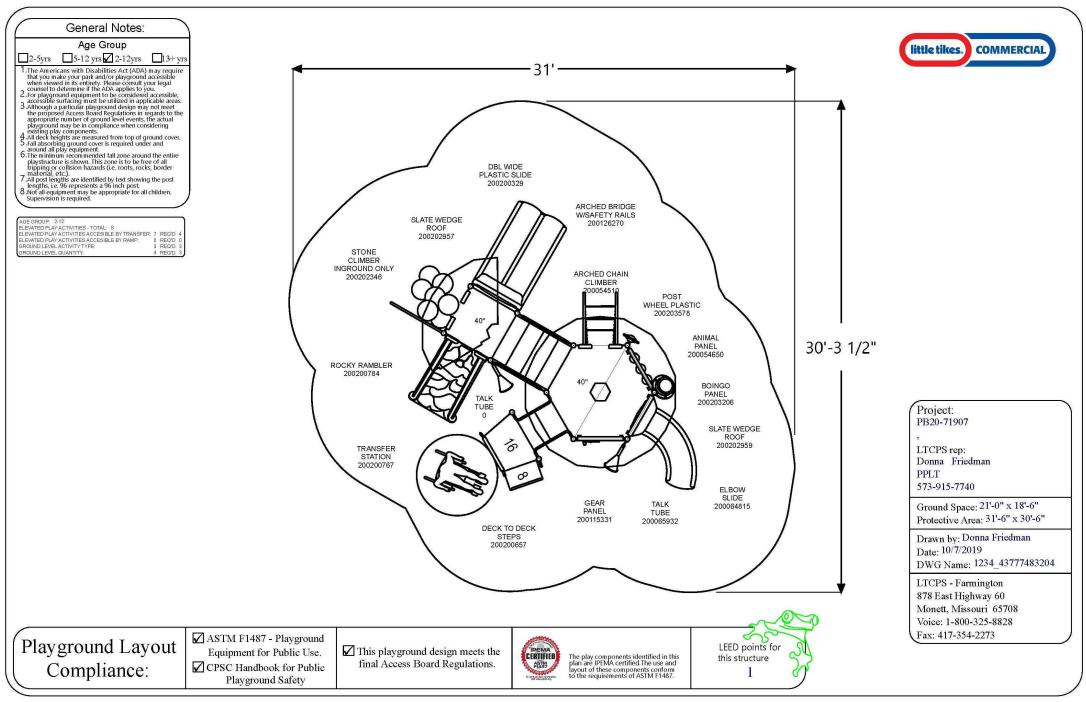
SUMMII VIEW FARMS
POOL CONSTRUCTION DOCUMENTS

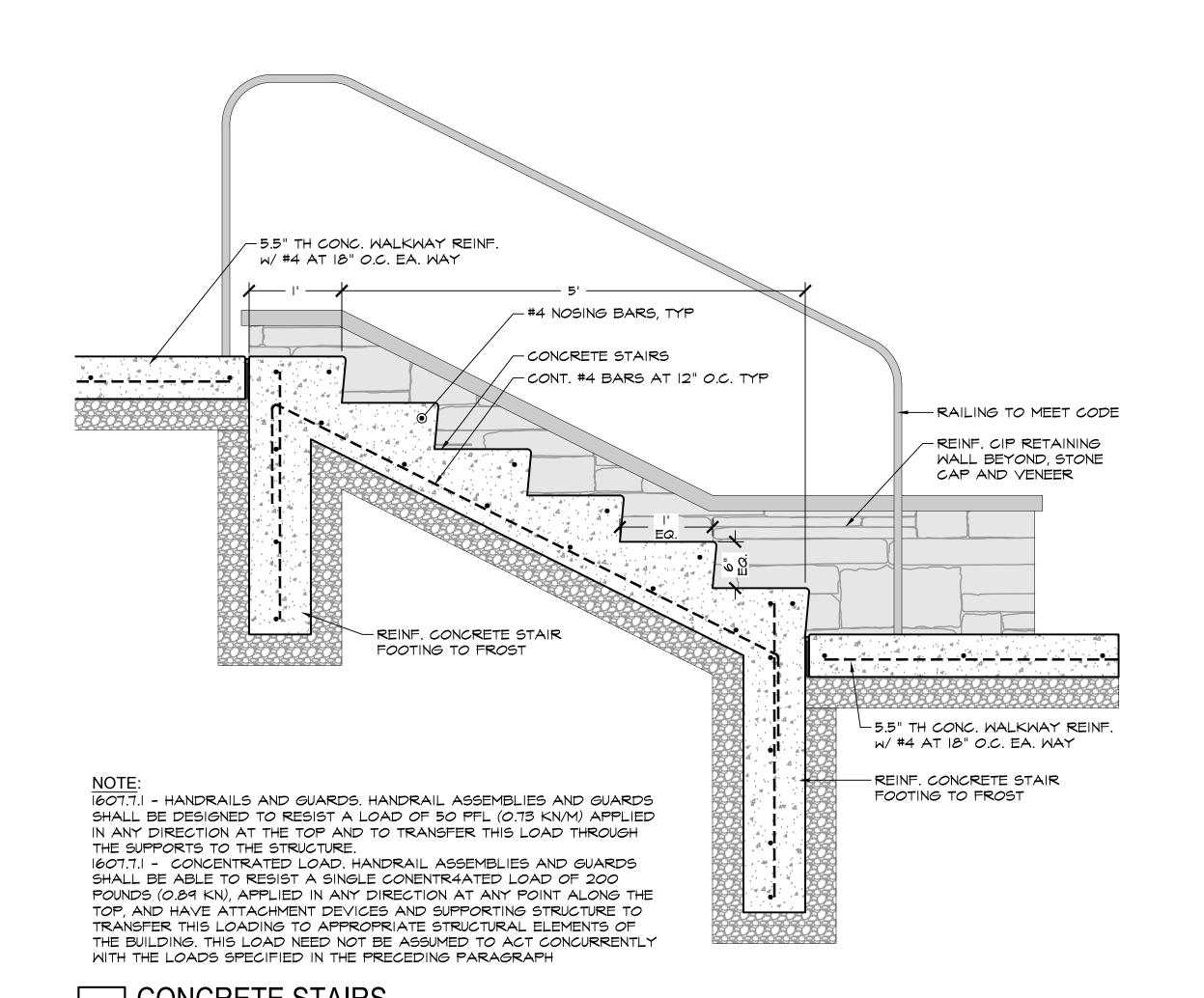
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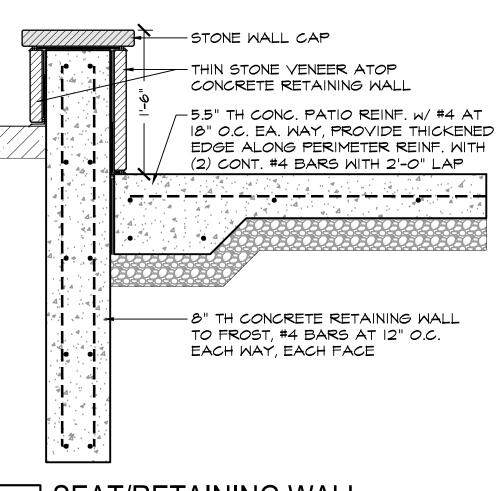
FEBRUARY 23, 2021 SITE DETAILS

L203









SEAT/RETAINING WAL SCALE: 1" = 1'-0" SECTION



DESIGN GROUP

8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

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JAMES M.

GRANICH

NUMBER PE-2014023909

Missouri COA #001268

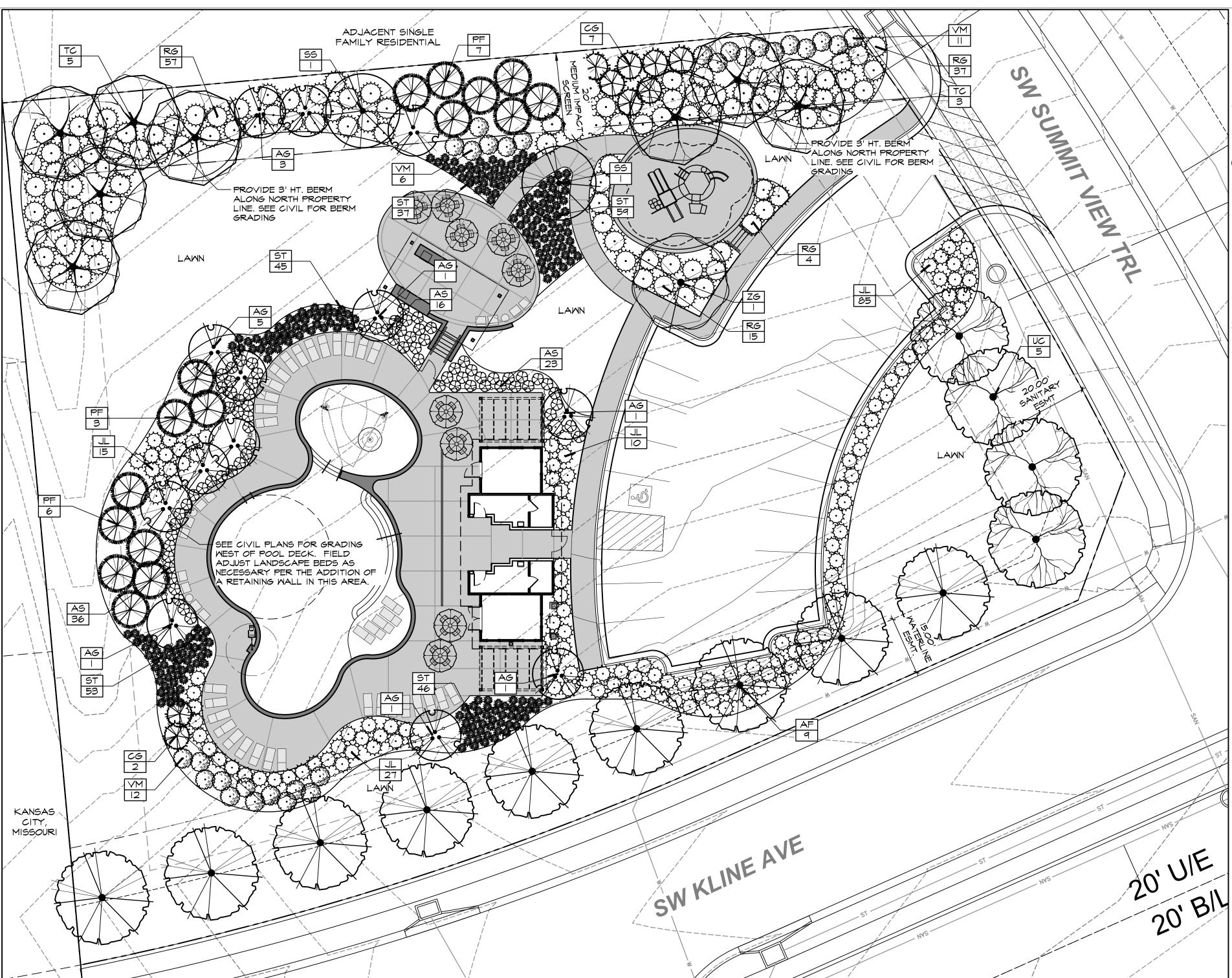
REVISION:

FEBRUARY 23, 2021

SITE DETAILS

L204

PLAYGROUND LAYOUT
SCALE: NTS MANUF. SPECS



LANDSCAPE PLAN SCALE: 1/16"=1'-0"

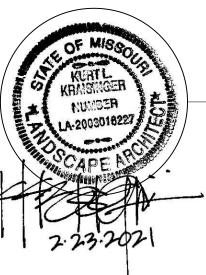
SCALE: 1/16" = 10'-0"

PLANT SIZE REQUIREMENTS (FOR THOSE PLANTS SATISFYING LEE'S SUMMIT REQUIREMENTS)				
LANDSCAPE MATERIAL SIZE REQUIREMENT (AT TIME OF PLANTING)				
MEDIUM SHRUBS	18"-24" B\$B OR 2-GAL. CONTAINER			
LARGE SHRUBS	24"-30" B&B OR 5-GAL. CONTAINER			
GROUNDCOVER	2½" PEA POT			
DECIDUOUS TREES	3" CALIPER			
EVERGREEN TREES	8' HT. MIN.			

LEE'S SUMMIT	LANDSCAPE REC	QUIREMENIS	
CODE REQUIREMENT	SECTION 8.790(A) - PROVIDE I STREET TREE P	ER 30 LF OF STREET FRONTAGE	
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
- PROVIDE I TREE / 30 LF OF STREET FRONTAGE	30 = 9.2	- IO STREET TREES REQUIRED ALONG SW KLINE AVE - 5 STREET TREES REQUIRED ALONG SW SUMMIT VIEW TRL	- IO STREET TREES PROVIDED ALONG SW KLINE AVE - 5 STREET TREES PROVIDED ALONG SW SUMMIT VIEW TRL
CODE REQUIREMENT	SECTION 8.790(B) - PROVIDE 2 SHRUBS PER 5, COVERED BY BUILDINGS OR STRUCTURES	000 SF OF TOTAL LOT AREA AND I TREE	PER 5,000 SF OF LOT AREA NOT
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA AND I TREE PER 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS OR STRUCTURES	(49,892 SF SITE / 5,000) x 2 = 19.96 (49,892 - 963 SF BLDG) / 5,000 = 9.78	20 OPEN SPACE SHRUBS REQUIRED 10 OPEN SPACE TREES REQUIRED	OPEN SPACE SHRUBS PROVIDED 21 OPEN SPACE TREES PROVIDED
CODE REQUIREMENT	SECTION 8.820 - PROVIDE SCREENING OF THE CONSIST OF A HEDGE PLANTED WITH 12 SHRUBS		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE 12 SHRUBS/40 LF ALONG PARKING FACING SM KLINE AVE & SM SUMMIT VIEW TRL	(175 LF PARKING LOT FRONTAGE / 40) x 12 = 53	53 SHRUBS REQUIRED	71 SHRUBS PROVIDED
CODE REQUIREMENT	SECTION 6.510 - PROVIDE A MEDIUM IMPACT S SHARED WITH A RESIDENTIAL DWELLING. PROV AND I SHRUB/200 SF		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE I SHADE TREE/500 SF, I ORNAMENTAL TREE/750 SF, I EVERGREEN TREE/300 SF, I SHRUB/200 SF ALONG NORTH PROPERTY LINE	4,522 SF BUFFER / 500 = 9.04 4,522 SF BUFFER / 750 = 6.03 4,522 SF BUFFER / 300 = 15.07 4,522 SF BUFFER / 200 = 22.61	9 SHADE TREES REQUIRED 6 ORNAMENTAL TREES REQUIRED 15 EVERGREEN TREES REQUIRED 22 SHRUBS REQUIRED	9 SHADE TREES PROVIDED 6 ORNAMENTAL TREES PROVIDED 15 EVERGREEN TREES PROVIDED 26 SHRUBS PROVIDED

/							
	PLANT SCHEDULE						
	TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		
		AF	Acer x freemanii / Freeman Maple	3" Cal.	B¢B		
\		TC	Tilia cordata / Littleleaf Linden	3" Cal.	B ₿		
		UC	Ulmus × 'Frontier' / Frontier Hybrid Elm	3" Cal.	B¢B		
		ZG	Zelkova serrata 'Green Vase' / Green Vase Sawleaf Zelkova	3" Cal.	B≰B		
	EVERGREEN TREES	CODE	BOTANICAL / COMMON NAME	<u>SIZE</u>	CONTAINER		
		CG	Cedrus atlantica 'Glauca Fastigiata' / Blue Columnar Atlas Cedar	8'-9' ht.	B≰B		
		PF	Pinus strobus 'Fastigiata' / Pyramidal White Pine	8'-9' ht.	B≰B		
	ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		
/		AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry	3" Cal.	B¢B		
1/2		SS	Syringa reticulata 'Summer Snow' / Summer Snow Japanese Tree Lilac	3" <i>Ca</i> l.	B \$ B		
	SHRUBS	CODE	BOTANICAL / COMMON NAME	<u>SIZE</u>	CONTAINER		
	\otimes	AS	Aronia melanocarpa 'UCONNAMOI2' TM / Ground Hog Spreading Chokeberry	#3			
	₩	JL	Juniperus chinensis 'Gold Lace' / Gold Lace Juniper	#5, 24" ht. min.			
	July 1	RG	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3			
		VM	Viburnum dentatum 'Blue Muffin' / Blue Muffin Viburnum	#5, 24" ht. min.			
	<u>GRASSES</u>	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER		
		ST	Sporobolus heterolepis 'Tara' / Prairie Dropseed	#2			





POOL CONSTRUCTION DOCUMENTS

REVISION:

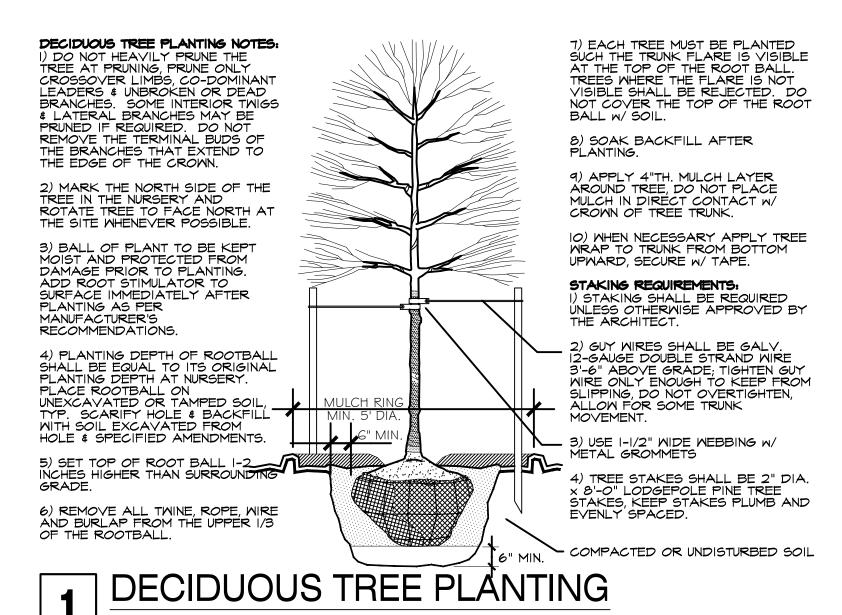
LANDSCAPE PLAN

L301

GENERAL NOTES

NURSERY, PRIOR TO SELECTION OR DIGGING.

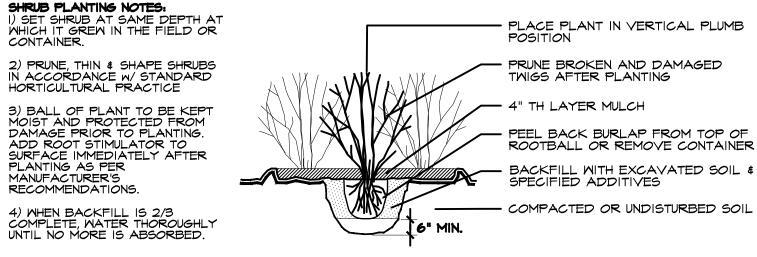
- I. THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.
- 2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- 3. THE LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN) PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MULCHING, AND OTHER REQUIREMENTS OF PLANT MATERIALS WHILE THEY ARE TEMPORARILY STORED ON OR OFF SITE.
- 5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED LOCATION OF TREES AND INSTALLATION OF PLANT MATERIAL WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- 6. ALL PLANT MATERIAL (EXCEPT SHADE TREES) IS DELINEATED AT MATURE SIZE OF PLANT MATERIAL. SHADE TREES ARE DELINEATED AT 85% OF ACTUAL MATURE SIZE.
- 7. ALL LANDSCAPE MATERIAL SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-1996) PER THE AMERICAN ASSOCIATION OF NURSERYMEN.
- 8. PER OWNER'S DIRECTION, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIAL AT THE
- 9. CONDUCT PLANTING UNDER FAVORABLE WEATHER CONDITIONS DURING EITHER THE SPRING PLANTING SEASON, MARCH I TO JUNE I, OR THE FALL PLANTING SEASON, SEPTEMBER 30 UNTIL FREEZING OF THE GROUND. DURING THE FALL PLANTING SEASON, CONIFEROUS MATERIAL PLANTING SHALL BE CONDUCTED AUGUST 15 TO OCTOBER 1. DEVIATION FROM THE ABOVE PLANTING DATES WILL ONLY BE PERMITTED WITH APPROVAL IN WRITING BY THE LANDSCAPE ARCHITECT."
- IO.THE PLANTING SOIL MIXTURE FOR ALL TREE PLANTINGS SHALL INCLUDE SOIL EXCAVATED FROM THE HOLE. RATIO: 50% VIRGIN SOIL + 50% AMENDED TOP SOIL.
- I. ROOT STIMULATOR SHALL BE APPLIED TO ALL PLANT MATERIALS WITH THE EXCEPTION OF LAWN AREAS. APPLY AS PER THE MANUFACTURERS SPECIFICATIONS.
- 12. THE LANDSCAPE CONTRACTOR SHALL RESTORE FINISH GRADES IN ALL PLANTING AREAS (PER GRADING PLANS) WHICH MAY HAVE BEEN DISTURBED DURING PLANTING OPERATIONS.
- 13. ALL TREE SAUCERS AND PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3" DOUBLE-GROUND HARDWOOD MULCH (COLOR DYED DARK BROWN). LANDSCAPE CONTRACTOR TO PROVIDE MULCH SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. WHERE PLANTING BEDS ARE ADJACENT TO WALKS AND CURBS THE SOIL LEVEL SHALL BE 3" LOWER TO ALLOW FOR MULCH LAYER. WHERE SOD IS INDICATED, ITS THICKNESS SHALL ALSO BE ACCOUNTED FOR SO THAT THE SOIL SURFACE IN THE SOD IS 1/2" BELOW THE HARDSCAPE SURFACE.
- 14.ALL SHRUB/PERENNIAL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE SUCH AS TREFLAN OR EQUAL. APPLY PER MANUFACTURER'S SPECIFICATIONS. THE PRE-EMERGENT SHALL NOT BE APPLIED UNTIL AFTER ALL PLANTING WITHIN THESE AREAS IS COMPLETE, BUT BEFORE THESE AREAS ARE MULCHED. DO NOT DISTURB AREAS AFTER APPLICATION. WATER IN AS DIRECTED.
- 15. MULCH, STAKES, GUY WIRE, PRE-EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL PLANTS.
- 16.ALL SLOPES THAT EXCEED A 3:1 GRADE SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET WITH NORTH AMERICAN GREEN SI5O. INSTALL PER THE MANUFACTURER'S SPECIFICATIONS.
- 17. LABEL EACH TREE AND SHRUB WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTH BOTANICAL AND COMMON NAME. LABEL EACH ORNAMENTAL GRASS, GROUNDCOVER, PERENNIAL AND ANNUAL WITH THE LABEL PROVIDED BY THE ORIGINAL GROWER OF THE PLANT. LABELS SHALL NOT BE REMOVED UNTIL AFTER PROVISIONAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
- 18.STAKES AND GUY WIRES SHALL BE REMOVED AT THE END OF ONE FULL GROWING SEASON.
- 19. LOOSEN SOIL FOR ALL PLANTING ISLANDS AND SHRUB/PERENNIAL BEDS TO A DEPTH OF 12". ALL AREAS DENOTED AS SOD (LAWN AREAS) SHALL HAVE A 6" MINIMUM TOPSOIL LAYER. TOPSOIL SHALL BE LAID IN 3" LIFTS. IN AREAS WHERE CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADES YET EXIST, THE TOPSOIL LAYER MAY NOT BE REQUIRED BASED ON THE DECISION OF THE LANDSCAPE ARCHITECT.
- 20. TOPSOIL SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL PH RANGE SHALL BE 5.5 TO 7.0.
- 21.THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTION OF PLANT MATERIAL SPECIES WITHOUT THE WRITTEN APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT. ANY SUBSTITUTION THAT HAS NOT BEEN APPROVED SHALL BE REMOVED AND REPLACED WITH THE CORRECT PLANT AT LANDSCAPE CONTRACTOR'S EXPENSE
- 22. IN THE CONDITION WHERE THE PLANT MATERIAL HAS BEEN SUPPLIED BY THE OWNER THROUGH A PLANT PROCUREMENT PROGRAM WITH A MYKE PRO 2-YEAR WARRANTY, THE LANDSCAPE CONTRACTOR'S WARRANTY OF PLANT MATERIAL SHALL BEGIN FROM THE TIME OF HANDLING PLANT MATERIAL AT TIME OF DELIVERY THROUGH INSTALLATION AND END AFTER SUBSTANTIAL COMPLETION AND FINAL PUNCH-LIST APPROVAL BY LANDSCAPE ARCHITECT.
- 23. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER DISPOSAL OF ANY AND ALL DEBRIS GENERATED DURING THE INSTALLATION OF THE LANDSCAPE CONSTRUCTION.
- 24. ALL LANDSCAPE AREAS SHALL BE WATERED BY AN AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL UTILIZE A RAIN SENSOR. DRIP IRRIGATION SHALL BE UTILIZED AT LANDSCAPE BEDS.
- 25. COORDINATION WITH THE OWNER AND GENERAL CONTRACTOR FOR SLEEVE LOCATIONS AND TIMING OF SLEEVE INSTALLATION. ALL SLEEVING REQUIRED UNDER HARDSCAPE SURFACES FOR THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
- 26. COORDINATE LANDSCAPE PLANTING WITH IRRIGATION CONTRACTOR. THE TREE PLANTINGS SHALL BE IN PLACE BEFORE IRRIGATION LINE ROUTING BEGINS. WATER TREES BY HAND UNTIL IRRIGATION SYSTEM IS FULLY FUNCTIONAL. SHRUBS AND PERENNIALS SHALL NOT BE INSTALLED UNTIL THE IRRIGATION SYSTEM IS FULLY FUNCTIONAL. THE IRRIGATION SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL IN ALL LAWN AREAS BEFORE SOD IS PLACED.



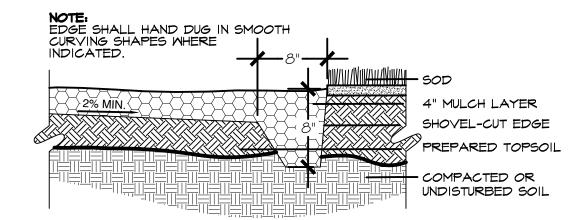
NEW SOD AREA -PVMT. SOD INSTALLATION NOTES: I) FINISHED GRADES SHALL BE ACCURATE. GRADE <u>"Yaarwalkaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaarwiikaar</u> CULTIVATED SOIL

2) CULTIVATE ENTIRE AREA TO A MINIMUM 6" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED WITHIN THE DRIPLINE OF EXISTING TREES. HAND RAKE SMOOTH 3) ADD ADDITIVES (AS PER SOIL TEST RECOMMENDATIONS) AND TILL INTO SOIL 4) LAY AND ROLL SOD. WATER THOROUGHLY.

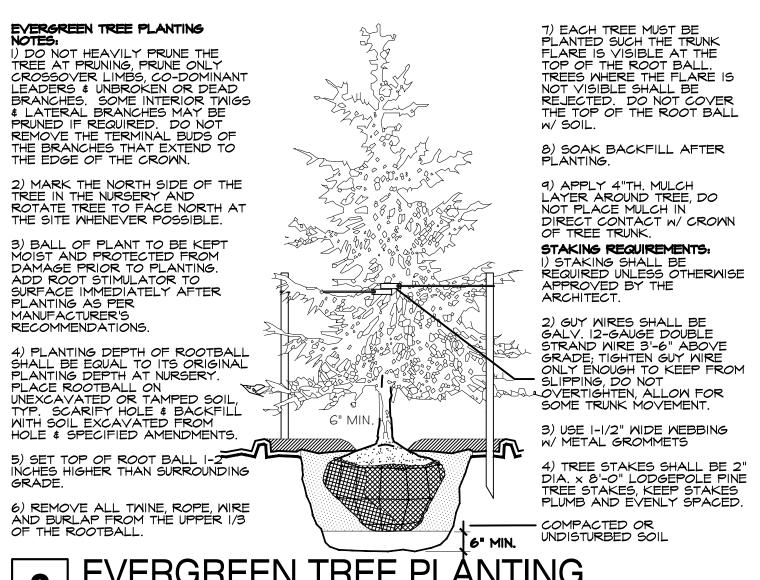
SOD INSTALLATION SCALE: N.T.S.



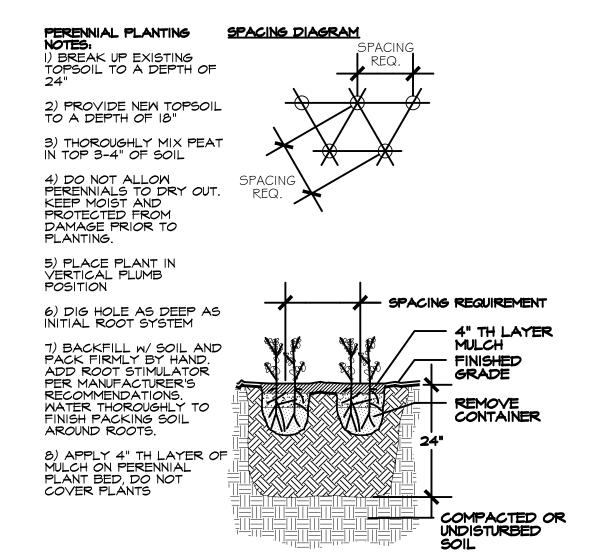
SHRUB PLANTING



SHOVEL-CUT EDGING SCALE: N.T.S.

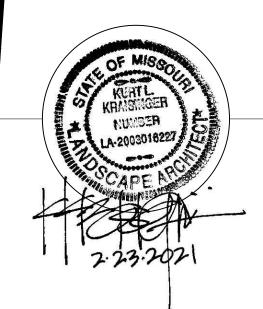


VERGREEN TREE PLÁNTING



PERENNIAL PLANTING



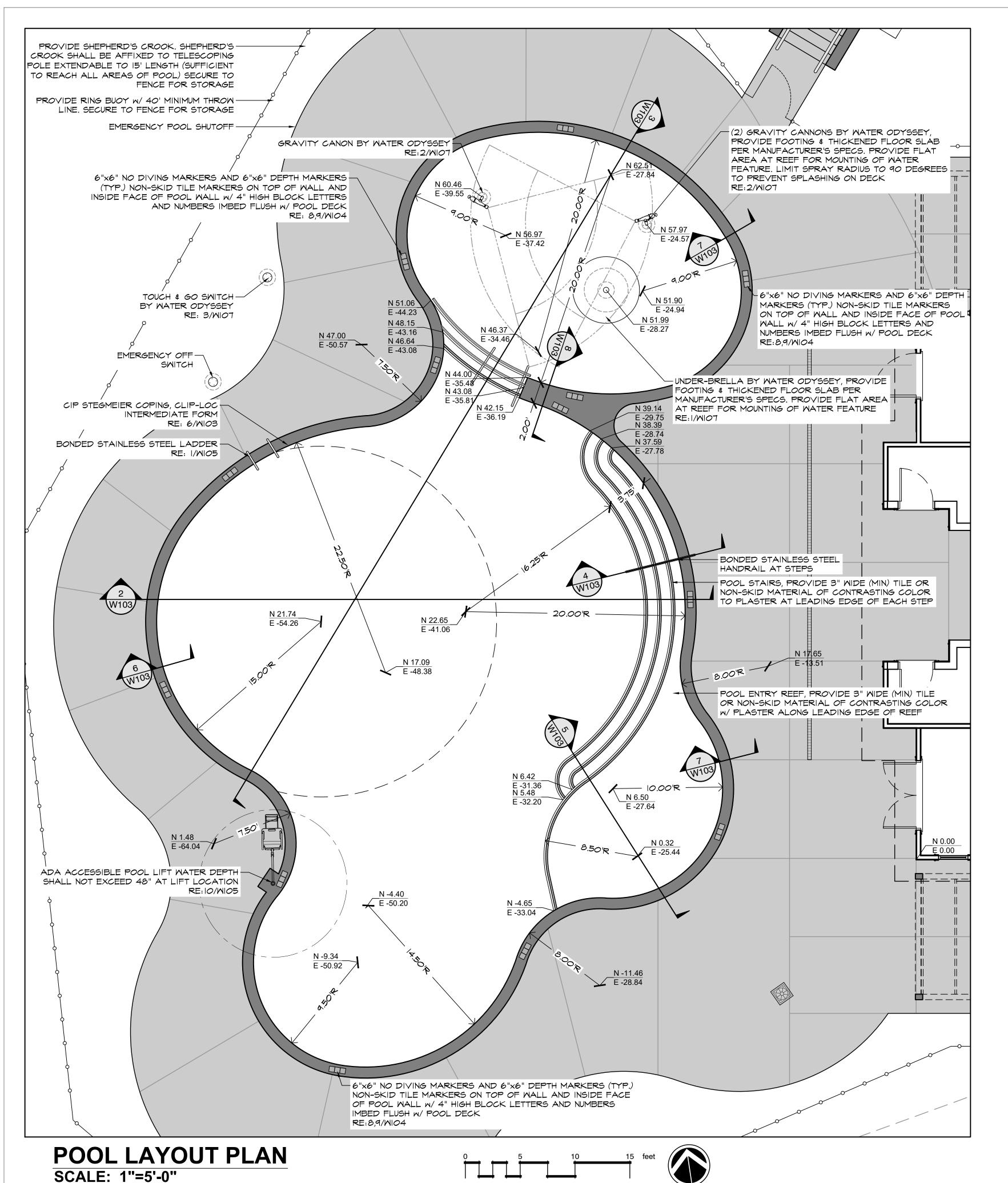


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REVISION:

FEBRUARY 23, 2021 LANDSCAPE NOTES

& DETAILS



PLAN NOTES

I. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

POOL GUIDELINES

- I. SUPERVISE YOUR CHILDREN YOU ALONE ARE RESPONSIBLE FOR THEIR SAFETY. DO OR RELY ON A LIFEGUARD OR SAFETY DEVICE
- 2. TEACH YOUR CHILDREN TO SWIM IT IS NEVER TOO EARLY
- 3. LEARN TO SMIM YOURSELF. YOU CAN NOT SAVE A CHILD IF YOU CAN
- 4. LEARN CPR. THIS IS A BASIC LIFE SKILL EVERYONE SHOULD KNOW 5. INFLATABLE 'FLOATIES' ARE NOT A REPLACEMENT FOR A LIFE VEST
- 6. AVOID ALCOHOL AND GUM. BAD DECISIONS AND CHOKING ARE
- COMMON CAUSES OF DROWNINGS
- 7. KEEP THE POOL AREA FREE OF TOYS WHEN THE POOL IS NOT IN USE 8. MAINTAIN THE WATER CLARITY
- 9. MAINTAIN THE DRAINS AND REPLACE THEM IF THEY ARE NOT OF AN ANTI-ENTRAPMENT DESIGN. DO NOT ALLOW SWIMMING TO PLAY AROUND THE DRAIN. KEEP LONG HAIR AWAY FROM THE DRAIN COVERS
- IO. MAINTAIN THE SAFETY BARRIERS (FENCES, COVERS, DOOR ALARMS)
- PRACTICE SAFE DIVING TECHNIQUES HANDS POINTED OVER THE HEAD, NEVER TO THE SIDES. NEVER DIVE INTO SHALLOW WATER
- 12. NEVER SWIM ALONE
- 13. KEEP SAFETY DEVICES HANDY

NOTE: THIS IS NOT A DIVING POOL



8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

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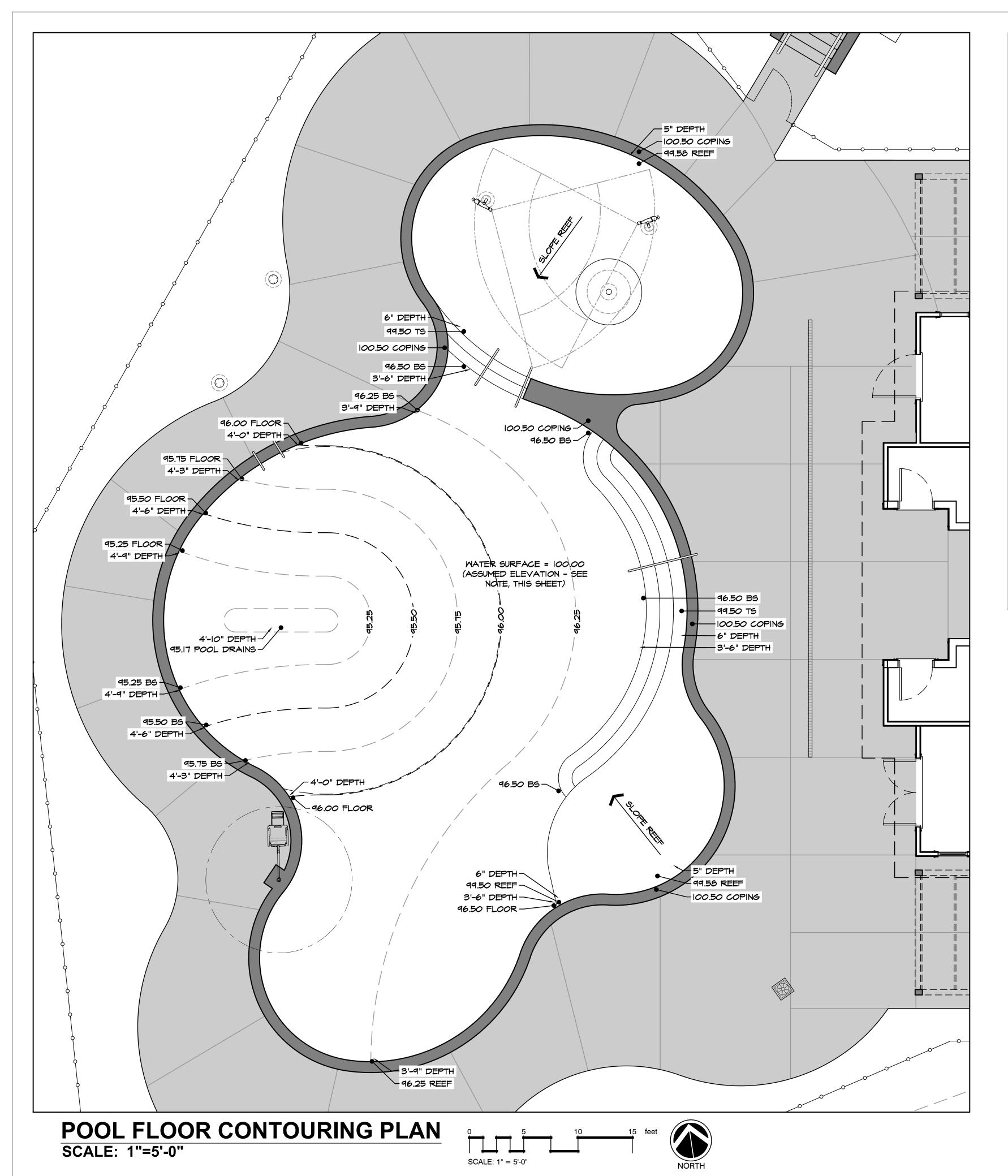


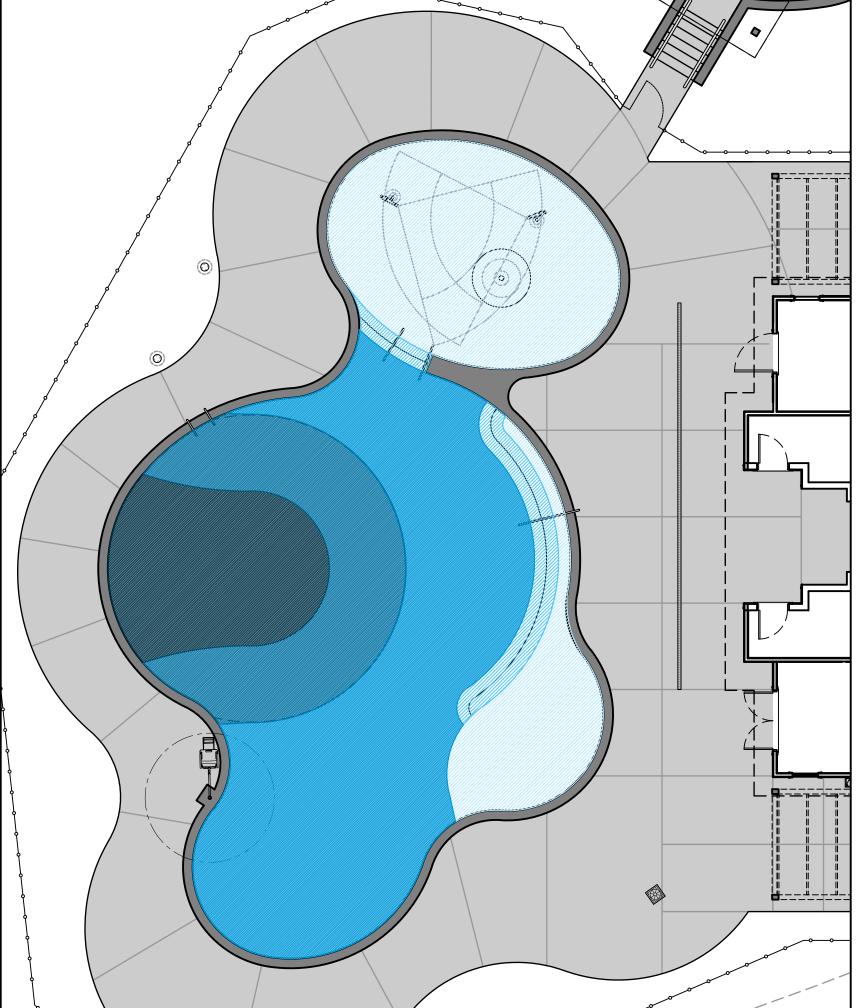
POOL CONSTRUCTION DOCUMENTS

REVISION:

______FEBRUARY 23, 2021

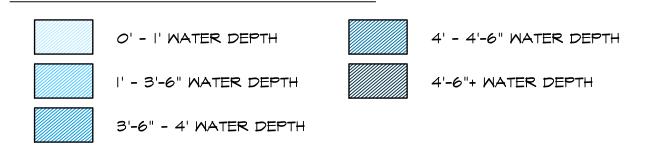
POOL LAYOUT PLAN





ILLUSTRATIVE WATER DEPTH PLAN SCALE: 1"=10'-0"

POOL WATER DEPTH



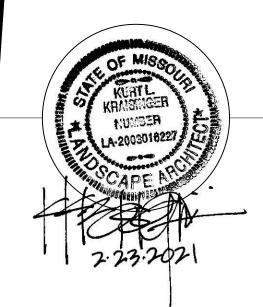
PLAN NOTES

I. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

2. ALL ELEVATIONS SHOWN ON THIS SHEET ARE ASSUMED, BASED ON AN ASSUMED WATER ELEVATION OF 100.00. SPOT ELEVATIONS DO NOT CORRELATE TO A SURVEY OR ANY BENCHMARK. TRUE WATER AND COPING ELEVATIONS ARE INDICATED ON GRADING PLAN. CONTRACTOR SHALL CORRELATE ASSUMED POOL FLOOR/WATER/COPING ELEVATIONS ON THIS PLAN TO TRUE POOL DECK AND WATER ELEVATIONS SHOWN ON GRADING PLAN IN ORDER TO ACHIEVE THE POOL WATER DEPTHS SHOWN ON THIS PLAN.

NOTE: THIS IS NOT A DIVING POOL





JMMIT VIEW FARM, POOL CONSTRUCTION DOCUMENTS

REVISION:

FEBRUARY 23, 2021
POOL FLOOR
CONTOURING

ONE-HOLE TINNED COPPER LAY-IN LUG

SUITABLE FOR DIRECT BURIAL

SUITABLE FOR DIRECT BURIAL

COPPER OFFSET TERMINAL LUG

SUITABLE FOR DIRECT BURIAL.

PART #

TCL1414DB

GESB6

GEOL2

COPPER SPLIT BOLT

CONDUCTOR RANGE (AMG)

RANGE FOR EQUAL MAIN (AWG)

CONDUCTOR RANGE (AWG)

14 Str. - 6 Str

4 Sol. - 8 Sol



	6 CPC PIPE CL	AMPS		
	PART #	MATERIAL	NOM. PIPE SIZE RANGE	PIPE OUTSIDE DIAMETER
FO. De	CPC1.5/2	TINNED BRONZE	1.5" - 2"	l" - 2.4"
	CPC2.5/3	TINNED BRONZE	2.5" - 3"	2.25" - 3.5"
	 CONDUCTO 	FOR DIRECT BURIA OR RANGE #6 - 250		

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PART #	WELD	REQUIRED HANDLE				
	ULTRASHOT	NUMTUBE				
PT8S8SB	US25	NUMTUBE25	MHI			
P58585L	US25	NUMTUBE25	MH3 (INCLUDED)			
P58565L	US25	NUMTUBE25	MH3 (INCLUDED)			

9)\$(10) CABLE TO REBAR ULTRAWELD EXOTHERMIC CONNECTION MOLDS						
PART #	WELD	METAL		PACKING		
	ULTRASHOT	NUMTUBE	HANDLE	MAT'L #		
RP385B	US25	NUMTUBE25	MHI	WRPSLV		
RP4L8SA	US25	NUMTUBE25	INCLUDED	CERPMI		
R0385B	US65	NUMTUBE65	MHI	WRPSLV		
R0485B	US65	NUMTUBE65	MHI	WRPSLV		
POESGR	USAS	NUMTURESE	МШ	MERGIV		

REBAR GROUNDING ASSEMBLY					
PART #	REBAR SIZE	CONDUC TYPE (A		NDUCTOR NGTH (FT)	
RB3GA85X5	з	8 50		5	

STANDARD 24" LONG REBAR.

(12) UL LISTED PREFABRICATED #8 SOLID COPPER GROUND MESH CONDUCTOR APPROX. WT. (FT) (FT) (LBS) SPACING (IN) 32 GM350812 42

(4)\$(5) REBAR \$ WATER PIPE GROUND CLAMPS RBI2B

10 Sol. - 2 Str. 10 Sol. - 2 Str.

CONDUCTOR RANGE (AMG)

OTHER SIZES AVAILABLE.

PART #	MELD METAL		REQUIRED HANDLE
	ULTRASHOT	NUMTUBE	
PT8585B	US25	NUMTUBE25	MHI
P58585L	US25	NUMTUBE25	MH3 (INCLUDED)
P58565L	US25	NUMTUBE25	MH3 (INCLUDED)

	ULTRASHOT	NUMTUBE		1.12.41 🖻
RP385B	US25	NUMTUBE25	Ĭ	WRPSLV
RP4L8SA	US25	NUMTUBE25	INCLUDED	CERPMI
R0385B	US65	NUMTUBE65	MHI	WRPSLV
R0485B	US65	NUMTUBE65	Ĭ	WRPSLV
R0585B	US65	NUMTUBE65	MHI	WRPSLV

RB3GA85X5	a	8 Sol.	5
	ATED REBAR GROUN CALLY WELDED CON	NDING ASSEMBLY WI' INECTION.	TH

CAN BE WIRE TIED OR WELDED CAGE PRIOR TO

6M375812	Э	75	12	
6M3100812	w	100	12	
OTHER ME	SH SIZES AND	WIRE GAUGES	AVAILABLE	

TYPICAL POOL GROUNDING & BONDING VIGNETTE

#10

MINIMUM TAP

16 Sol.

BOLT HOLE SIZE

BONDING LOOP GENERAL NOTES

I. ALL METALLIC ITEMS TO BE BONDED AT PUMP ROOM PER

PLAN, TO INCLUDE LADDERS, STANCHION ANCHORS, FLOATABLE ANCHORS, RAILING, PUMPS, DECK JUNCTION BOXES AND ALL OTHER METALLIC WITHIN 5'-O" OF THE POOL. 3. REINFORCEMENT STEEL AROUND POOL TO BE BONDED TO

2. BOND ALL ITEMS AS NOTED ON THIS POOL BONDING LOOF

AT EACH POURED SECTION OR EVERY 20 FEET (WHICHEVER IS LESS). USE ONLY LUGS LISTED AND LABELED FOR BONDING REBAR TO A COPPER CONDUCTOR. LUGS SHOULD ALSO BE RATED FOR DIRECT BURIAL, AS LUGS WILL BE ENCLOSED WITHIN CONCRETE AFTER INSTALLED.

4. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL SURFACE TO BE BONDED

5. ALL FENCE POST AND GATES WITHIN 5 FEET FROM POOL SURFACE TO BE BONDED. 6. ALL PUMP MOTORS AT THE POOL TO BE BONDED TO THE

BONDING LOOP UNLESS DOUBLE INSULATED. THIS INCLUDES

WATER CIRCULATING, CHEMICAL FEED AND HEATER PUMPS.

POOL BONDING PLAN

SCALE: 1/8"=1'-0"

7. ALL METAL RACEWAYS, PIPES, FIXED PARTS (AWNING, DOOR FRAMES, WINDOW FRAMES), AND CABLES WITHIN 5 FEET FROM THE POOL SURFACE TO BE BONDED.

8. ALL METALLIC CANOPIES, STAND, TOWERS OR OBSERVATION STANDS WITHIN 12' ABOVE THE MAXIMUM WATER LEVEL OF THE POOL AND LOCATED IN THIS AREA TO BE BONDED. BOND EACH SUPPORT LOCATED IN POOL DECK.

9. ITEMS WITH MULTIPLE ANCHOR SOCKETS, LEGS, ETC TO BE BONDED AT EACH LOCATION IN THE POOL DECK

10. ALL PIPING TO AND FROM THE PUBLIC BATHING PLACE, INCLUDING INLET AND OUTLET PIPES SHALL BE METALLICALLY BONDED TOGETHER AND ADEQUATELY CONNECTED TO THE SAME GROUNDING ELECTRODE USED TO GROUND THE NEUTRAL CONDUCTOR OF THE ELECTRICAL SYSTEM. METAL FENCES SHALL BE GROUNDED AT BOTH SIDES OF THE ENTRANCE GATE.

II. ALL ELECTRICAL DEVICES SUCH AS PORTABLE ANNOUNCING SYSTEMS, RADIOS, AND SOFT DRINK DISPENSERS THAT MIGHT BE USED AROUND THE POOL AND IMMEDIATE ENVIRONMENT SHALL BE PROHIBITED WITHIN

REACH OF BATHERS. FURTHER SPECIAL GROUNDING OF SUCH FIXTURES MUST BE PROVIDED.

12. BONDING LOOP CONDUCTOR AROUND POOL SHALL BE A SOLID COPPER CONDUCTOR AWG, NOT SMALLER THAN A #6

13. BONDING LOOP AROUND POOL TO BE AS CONTINUOUS AS POSSIBLE WITH A MINIMUM NUMBER OF SPLICES

14. CONNECTIONS FROM POOL BONDING LOOP CONDUCTOR TO

LISTED AND LABELED FOR THIS ENVIRONMENT. BONDING CONNECTORS SHALL BE BRASS, COPPER, COPPER ALLOY, OR STAINLESS STEEL. 16. EXOTHERMIC WELDING IS A PERMITTED METHOD FOR

15. ALL BONDING CONNECTIONS TO BE MADE WITH DEVICES

17. ALL CONNECTIONS BETWEEN BONDED ITEMS AND POOL BONDING LOOP TO BE UNDER 2 OHMS RESISTANCE.

BONDING THE COPPER BONDING LOOP TO THE

REINFORCEMENT STEEL.

EXTEND POOL BONDING LOOP TO POOL FILTER PAD AND BOND ALL EQUIPMENT PER ARTICLE 680 OF THE NEC BOND ALL METALLIC TEMS TO BONDING GRID BOND ALL METALLIC ITEMS TO BONDING GRID COPPER CONDUCTOR GRID TO BE CONSTRUCTED OF #6 BARE SOLID CONDUCTORS AND BONDED AT ALL POINTS -BOND ALL METALLIC OF CROSSING. BOND ALL METALLIC PARTS AS REQUIRE ITEMS TO BONDING GRID BY THE NEC ARTICLE 680.26. LOOP SHOULD BE CONTINUOUS WITH MINIMAL SPLICING. PLACE BONDING 18"-24" FROM INSIDE FACE OF POOL WALL VERIFY ALL METALLIC ITEMS ARE ON BONDING LOOP PER NEC 680.26 POOL BONDING GRID TO BE INSPECTED & TESTED AFTER INSTALLATION TO ASSURE SYSTEM IS PROPERLY FUNCTIONING AT ALL REQUIRED LOCATIONS PER ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE

POOL GROUNDING & BONDING TECHNICAL NOTES

TECHNICAL NOTES:

THE OUTER CONTOUR OF THE POOL SHELL.

*680.26 EQUIPOTENTIAL BONDING * (SUMMARIZED) (A) PERFORMANCE. THE EQUIPOTENTIAL BONDING REQUIRED BY THIS SECTION SHALL BE INSTALLED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA.

(B) BONDED PARTS. THE PARTS SPECIFIED IN 680.26(B)(I) THROUGH (B)(T) SHALL BE BONDED TOGETHER USING SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE, NOT SMALLER THAN 8 AWG OR WITH RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL. CONNECTIONS TO BONDED PARTS SHALL BE MADE IN ACCORDANCE WITH 250.8**. AN 8 AWG OR LARGER SOLID COPPER BONDING CONDUCTOR PROVIDED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA SHALL NOT BE REQUIRED OR ATTACHED TO REMOTE PANELBOARDS, SERVICE EQUIPMENT, OR ELECTRODES

(I) CONDUCTIVE POOL SHELLS. BONDING TO CONDUCTIVE POOL SHELLS SHALL BE PROVIDED AS SPECIFIED IN 680.26(B)(I)(a) OR (B)(I)(b). POURED CONCRETE, PNEUMATICALLY APPLIED OR SPRAYED CONCRETE, AND CONCRETE BLOCK WITH PAINTED PLASTERED COATINGS SHALL ALL BE CONSIDERED CONDUCTIVE MATERIALS DUE TO WATER PERMEABILITY AND POROSITY. VINYL LINERS AND FIBERGLASS COMPOSITE

SHELLS SHALL BE CONSIDERED TO BE NONCONDUCTIVE MATERIALS. (a) STRUCTURAL REINFORCING STEEL. UNENCAPSULATED STRUCTURAL REINFORCING STEEL SHALL BE BONDED TOGETHER BY STEEL TIE WIRES OR THE EQUIVALENT. WHERE STRUCTURAL REINFORCING STEEL IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR GRID SHALL BE INSTALLED IN ACCORDANCE WITH 680.26(B)(I)(b) (b) COPPER CONDUCTOR GRID. A COPPER CONDUCTOR GRID SHALL BE PROVIDED

AND SHALL COMPLY WITH (b)(1) THROUGH (b)(4). (I) BE CONSTRUCTED OF MINIMUM & AWG BARE SOLID COPPER CONDUCTORS BONDED TO EACH OTHER AT ALL POINTS OF CROSSING. THE BONDING SHALL BE IN ACCORDANCE WITH 250.8 OR APPROVED MEANS.

(2) CONFORM TO THE CONTOUR OF THE POOL. (3) BE ARRANGE DIN A 300mm (12in) BY 300mm (12in) NETWORK OF CONDUCTORS

IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF IOOMM (4) BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 150mm (6in) FROM

(2) PERIMETER SURFACES. THE PERIMETER SURFACE SHALL EXTEND FOR Im (3ft) HORIZONTALLY BEYOND THE INSIDE WALLS OF THE POOL AND SHALL INCLUDE UNPAVED SURFACES AS WELL AS POURED CONCRETE SURFACES AND OTHER TYPES OF PAVING. PERIMETER SURFACES LESS THAN Im (3ft) SEPARATED BY A PERMANENT WALL OR BUILDING 1.5m (5ft) IN HEIGHT OR MORE SHALL REQUIRE EQUIPOTENTIAL BONDING ON THE POLL SIDE OF THE PERMANENT WALL OR BUILDING. BONDING TO PERIMETER SURFACES SHALL BE PROVIDED AS SPECIFIED IN 680.26(B)(2)(a) OR (2)(b) AND SHALL BE ATTACHED TO THE POOL REINFORCING STEEL OR COPPER CONDUCTOR GRID AT A MINIMUM OF FOUR (4) POINTS UNIFORMLY SPACED AROUND THE PERIMETER OF THE POOL. FOR NONCONDUCTIVE POOL SHELLS, BONDING AT FOUR POINTS SHALL NOT BE REQUIRED. (a) STRUCTURAL REINFORCING STEEL. STRUCTURAL REINFORCING STEEL SHALL BE BONDED IN ACCORDANCE WITH 680.26(B)(I)(a).

(b) ALTERNATE MEANS. WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET:

(I) AT LEAST ONE MINIMUM & AMG BARE SOLID COPPER CONDUCTOR SHALL BE PROVIDED (2) THE CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE

(3) ONLY LISTED SPLICES SHALL BE PERMITTED

(4) THE REQUIRED CONDUCTOR SHALL BE 450mm TO 600mm (18in TO 24") FORM THE INSIDE WALLS OF THE POOL.

(3) METALLIC COMPONENTS. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING REINFORCING METAL NOT ADDRESSED IN 680.26(B)(I)(a), SHALL BE BONDED. WHERE REINFORCING STEEL IS ENCAPSULATED WITH A NONCONDUCTIVE COMPOUND, THE REINFORCING STEEL SHALL NOT BE REQUIRED TO BE BONDED.

(4) UNDERWATER LIGHTING.

(5) METAL FITTINGS

(6) ELECTRICAL EQUIPMENT

(7) FIXED METAL PARTS. ALL FIXED METAL PARTS SHALL BE BONDED INCLUDING, BUT NOT LIMITED TO, METAL-SHEATHED CABLES AND RACEWAYS, METAL PIPING, METAL AWNINGS, METAL FENCES, AND METAL DOOR AND WINDOW FRAMES.

EXCEPTION NO I: THOSE SEPARATED FROM THE POOL BY PERMANENT BARRIER THAT PREVENTS CONTACT BY A PERSON SHALL NOT BE REQUIRED TO BE BONDED. EXCEPTION NO 2: THOSE GREATER THAN 1.5m (5ft) HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL SHALL NOT BE REQUIRED TO BE BONDED.

EXCEPTION NO 3: THOSE GREATER THAN 3.7m (12ft) MEASURED VERTICALLY ABOVE THE MAXIMUM WATER LEVEL OF THE POOL, OR AS MEASURED VERTICALLY ABOVE ANY OBSERVATION STANDS, TOWERS, OR PLATFORMS, OR ANY DIVING STRUCTURES, SHALL NO

(C) POOL WATER. WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSES NOT LESS THAN 5800mm SQ (9in SQ) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE OR DISLODGEMENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH 680.26(B).

250.8 CONNECTION OF GROUNDING AND BONDING EQUIPMENT** (A) PERMITTED METHODS. EQUIPMENT GROUNDING CONDUCTORS, GROUNDING ELECTRODES CONDUCTORS, AND BONDING JUMPERS SHALL BE CONNECTED BY ONE OR MORE OF THE FOLLOWING MEANS:

(I) LISTED PRESSURE CONNECTORS

(2) TERMINAL BARS (3) PRESSURE CONNECTORS LISTED AS GROUNDING AND BONDING EQUIPMENT

(4) EXOTHERMIC WELDING PROCESS (5) MACHINE SCREW-TYPE FASTENERS THAT ENGAGE NOT LESS THAN TWO THREADS OR ARE SECURED WITH A NUT

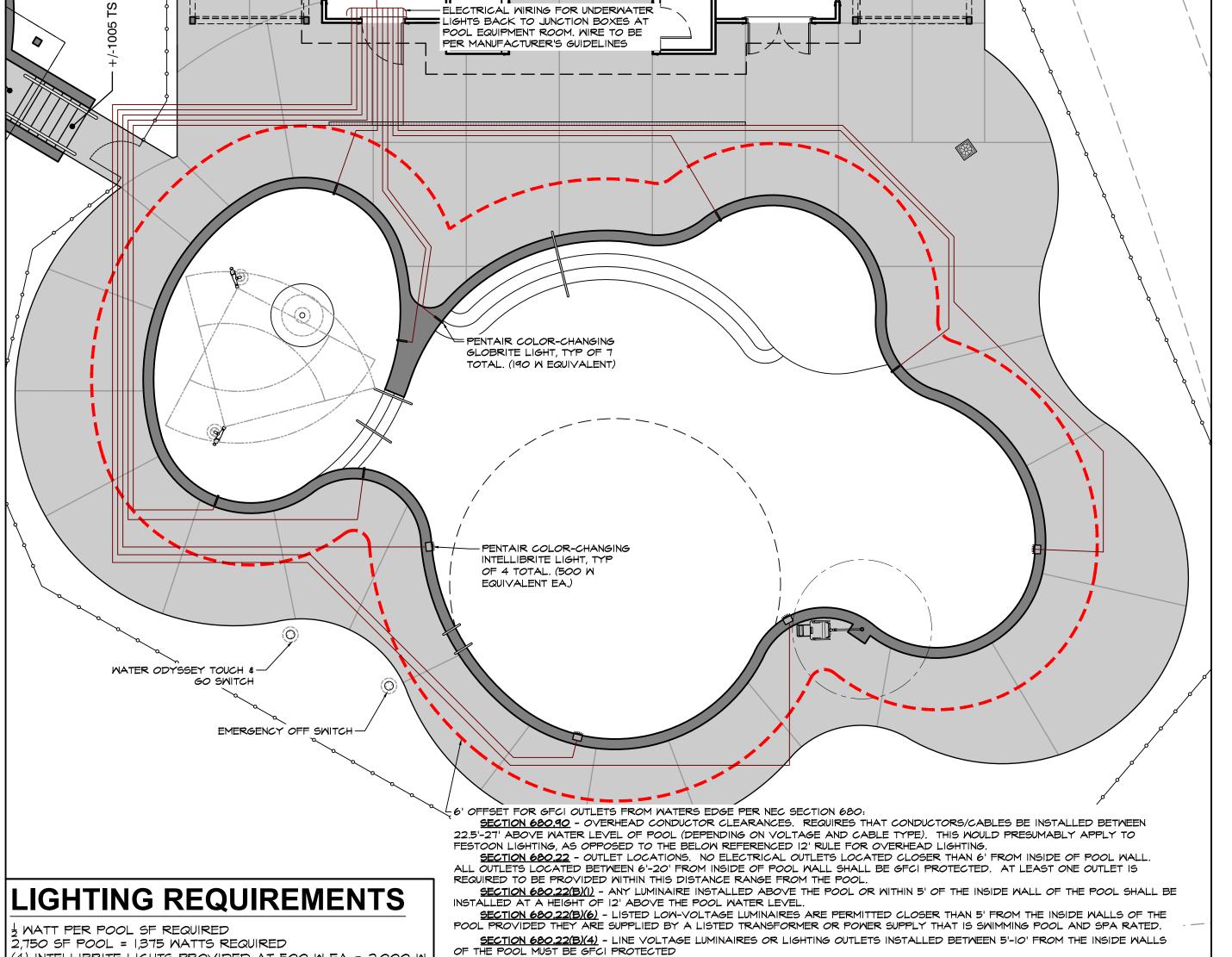
(6) THREAD-FORMING MACHINE SCREMS THAT ENGAGE NOT LESS THAN TWO THREADS IN THE ENCLOSURE

(7) CONNECTIONS THAT ARE PART OF A LISTED ASSEMBLY (8) OTHER LISTED MEANS

(B) METHODS NOT PERMITTED. CONNECTION DEVICES OR FITTINGS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED

*NEC 2014 EQUIPOTENTIAL BONDING ARTICLE 680.26

**NEC 2014 CONNECTION OF GROUNDING AND BONDING EQUIPMENT ARTICLE 250.8

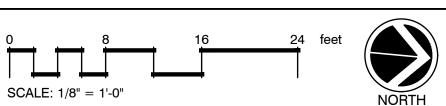


POOL ELECTRICAL PLAN **SCALE:** 1/8"=1'-0"

(4) INTELLIBRITE LIGHTS PROVIDED AT 500 W EA = 2,000 W

7) GLOBRITE LIGHTS PROVIDED AT 190 W EA = 1,330 W

3,330 TOTAL EQUIVALENT WATTS PROVIDED



SECTION 680.26(B)(7) - ALL FIXED METAL PARTS WITHIN 5' HORIZONTALLY AND 12' VERTICALLY OF POOLS MUST BE BONDED

SECTION 680.26(B)(2) - ALL PERIMETER SURFACES WITHIN 3' SURROUNDING POOL (PAVED AND UNPAVED) SHALL BE BONDED

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REVISION:

FEBRUARY 23, 2021 POOL ELECTRICAL

SPRAY EQUIPMENT (WATER FEATURE) SUCTION

SPRAY EQUIPMENT (WATER FEATURE) RETURN

HYDRAULICS NOTES

SWIMMING POOL FILTRATION

MIN POOL DEPTH 6" (AT REEF), 3'-6" (IN POOL)

4-10"

POOL SURFACE AREA 2,750 SF POOL VOLUME 60,416 GAL. 250 LF POOL PERIMETER 168 GPM 6-HOUR FILTRATION TURNOVER RATE +/-45

TOTAL DYNAMIC HEAD (TDH) SWIMMING POOL SKIMMERS

SWIMMING POOL DRAINS DUAL VGB SUPERFLO 360 PEBBLE TOP DRAINS

SWIMMING POOL FILTRATION PENTAIR WHISPERFLO XF VS 5-HP PUMP

DUAL PENTAIR TR-140C SAND FILTERS SWIMMING POOL FILTER

EFFECTIVE FILTRATION AREA 14.12 SF

FILTRATION RATE 11.90 GPM/SF

SWIMMING POOL HEATER PENTAIR ETi400 NATURAL GAS HEATER PENTAIR INTELLICHEM WATER CHEMISTRY CONTROLLER

POOL LIGHTING REQUIRED $\frac{1}{2}$ WATT/SF = 1,375 WATTS REQUIRED

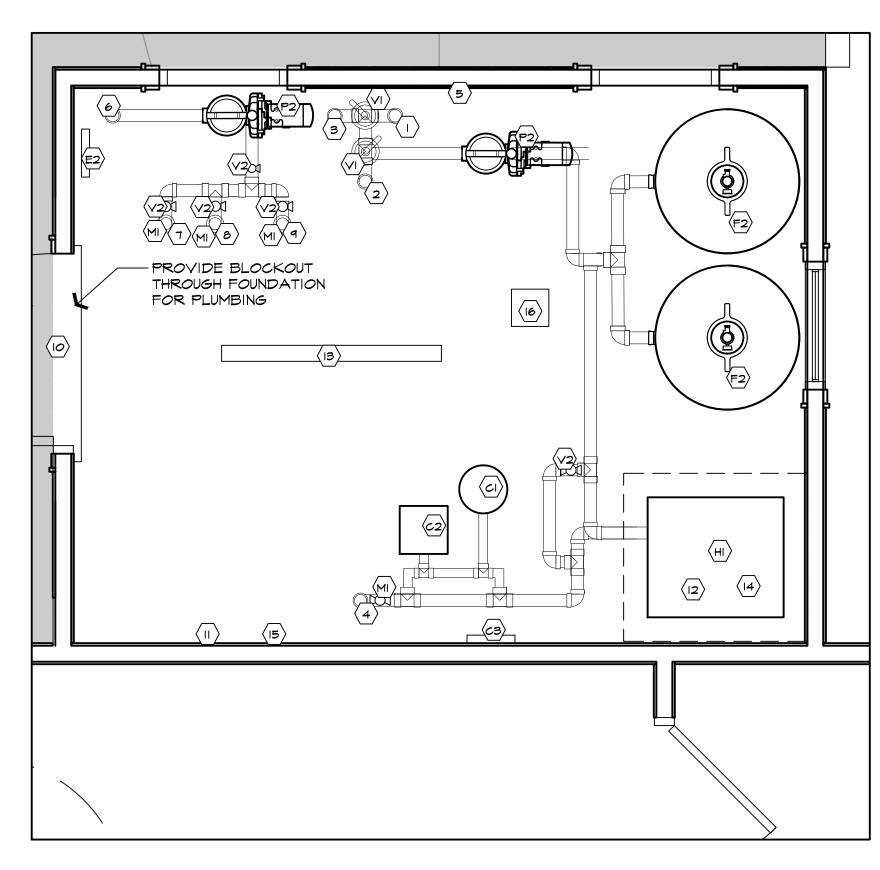
POOL LIGHTING PROVIDED SEE SHEET W003

POOL EQUIPMENT ROOM PROVISIONS

- VENTING FOR HEATER, (1) 4" PVC PIPE RUNNING DIRECTLY FROM THE ROOF TO THE HEATER FOR COMBUSTION, AND A SEPARATE 4" PVC LINE FROM THE HEATER BACK TO THE ROOF FOR VENTILATION. THESE MAY RUN FOR A DISTANCE OF UP TO 100' (SUBTRACTING 10 LF FOR EVERY 90 DEGREE BEND IN THE PIPE) IF THE DISTANCE FROM THE HEATER TO THE ROOF EXCEEDS THIS, THEN CAN SWITCH TO A 6" PVC PIPE FOR A DISTANCE OF UP TO
- 400,000 BTU NATURAL GAS FOR HEATERS
- 1.5" FRESH WATER LINE (WITH BACKFLOW PREVENER) FOR POOL AUTOFILL (RE: MEP)
- DRAIN IN PUMP ROOM FOR SPILLED WATER POOL BACKWASH FLOOR DRAIN - SIZED FOR 240 GPM GRAVITY FLOW RATE. BACKWASH
- SHALL ENTER PIPE VIA AIRGAP BETWEEN THE BACKWASH LINE AND DRAIN. DRAIN CONTINUATION BY MEP.
- 200-AMP ELECTRICAL PANEL
- POOL EQUIPMENT AND LINES TO BE LABELED w/ LABELING MACHINE LABELS AND NOT HAND WRITTEN ON PLUMBING OR EQUIPMENT, PROVIDE A LAMINATED WATERPROOF AS-BUILT DIAGRAM OF EQUIPMENT ROOM LAYOUT AT SERVICE CONTROL PANEL w/ 3D BINDER OF ALL EQUIPMENT CUT SHEETS
- PROVIDE MINIMUM 48" WIDE LOUVERED DOOR TO EQUIPMENT ROOM
- PROVIDE MECHANICAL VENTILATION IN EQUIPMENT ROOM
- 10. ALL VARIABLE SPEED PUMPS SHALL HAVE THEIR SETTINGS LOCKED. FLOW RATES SHALL NOT EXCEED THE GALLONS PER MINUTE (GPM) LISTED IN THE HYDRAULICS NOTES SECTION OF THIS SHEET OR ELSE PLUMBING VELOCITIES MAY EXCEED LEGAL LIMITS AND PIPES AND FIXTURES MAY BE SUBJECT TO DAMAGE.
- 11. PROVIDE EMERGENCY TELEPHONE ACCESSIBLE FROM POOL DECK 12. PROVIDE CARBON MONOXIDE DETECTOR IN EQUIPMENT ROOM

LEGEND

- (P2) PENTAIR WHISPERFLO XF VS 5-HP PUMP
- (F2) PENTAIR TR-140C SAND FILTER
- PENTAIR ET1400 NATURAL GAS HEATER (PROVIDE VENTING FOR HEATER)
- (CI) ACID TANK
- (C2) CHLORINE TANK
- PENTAIR INTELLICHEM WATER CHEMISTRY CONTROLLER
- ⟨VI⟩ 3-MAY VALVE
- (v2) BALL VALVE
- CHEMICAL RESISTANT, CORROSION PRESISTANT CHECK VALVE
- (MI) FLOW METER
- (EI) TOUCH & GO SMITCH BY MATER ODYSSEY
- (E2) SINGLE TIMER CONTROLLER BY WATER ODYSSEY
- (E3) EMERGENCY POOL OFF SWITCH
- $\langle 1 \rangle$ 6" PVC FROM POOL SUPERFLO 360 DRAINS #1 \$ #2
- (2) 4" PVC FROM POOL SKIMMER LOOP
- $\langle 3 \rangle$ 2" PVC FROM POOL VAC LINE
- $\langle 4 \rangle$ 4" PVC TO POOL RETURN LOOP
- PROVIDE 1.5" WATERLINE TO PUMP ROOM FOR AUTOFILL. PROVIDE BACKFLOW PREVENTER ON WATER LINE
- (6) 6" PVC FROM SUPERFLO 360 DRAINS #3 \$ #4
- (7) 2" PVC TO GRAVITY CANNON #1
- $\langle s \rangle$ 2" PVC TO GRAVITY CANNON #2
- (9) 3" PVC TO UNDER-BRELLA
- (10) 42" MIN. WIDE LOUVERED DOOR
- PROVIDE 200-AMP ELECTRICAL PANEL IN PUMP ROOM (LOCATE PER MEP)
- PROVIDE 400,000 BTU NATURAL GAS SERVICE TO PUMP
- PROVIDE 400,000 2.
 ROOM FOR POOL HEATER
- LINEAR DRAIN IN PUMP ROOM FLOOR. CONTINUATION BY OTHERS
- PROVIDE FRESH AIR INTAKE & EXHAUST FOR HEATER (PER MANUFACTURER'S SPECIFICATIONS)
- (15) PROVIDE MECHANICAL VENTILATION FOR EQUIPMENT ROOM
- BACKWASH LINE (RE: MEP). SEE POOL EQUIPMENT ROOM PROVISIONS NOTE #5, THIS SHEET



EQUIPMENT ROOM PLAN

SCALE: 1/2"=1'-0"

WATER FEATURE PLUMBING

WATER FEATURE PUMP

UNDER-BRELLA DESIGN FLOW RATE

GRAVITY CANNON DESIGN FLOW RATE

TOTAL WATER FEATURE FLOW RATE

+/-150 GPM

+/-190 GPM

QUICK CLEAN - 3450 RPM

PROGRAMI 3 - 3000 RPM

PROGRAMI 2 - 2500 RPM

PROGRAMI 1 - 1720 RPM

20 GPM EA. (40 GPM TOTAL)

POOL FILTRATION PUMP CURVE - PENTAIR WHISPERFLO XF VS

PENTAIR INTELLIFLO XF PUMP

FACTORY PRESET SPEEDS

- 3450 RPM

- 1720 RPM

- 3000 RPM

2500 RPM





REVISION:

FEBRUARY 23, 2021 POOL PLUMBING

PLAN

1. GENERAL INFORMATION

I.I SPECIAL INSPECTIONS

I.I.I THE CONTRACTOR OR OWNER SHALL PROVIDE SPECIAL INSPECTION WHICH REQUIRES THE EXPERTISE OF AN APPROVED SPECIAL INSPECTOR IN ORDER TO ENSURE COMPLIANCE WITH THE CODE AND THE APPROVED CONSTRUCTION DOCUMENTS. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.

1.1.2 CONTINUOUS SPECIAL INSPECTION IS REQUIRED TO BE PERFORMED BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. THE FOLLOWING REQUIRES CONTINUOUS SPECIAL INSPECTION:

I.I.2.I AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATED SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.

1.1.2.2 DURING CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.

I.I.3 PERIODIC SPECIAL INSPECTION IS REQUIRED TO BE PERFORMED BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. THE FOLLOWING REQUIRES PERIODIC SPECIAL INSPECTION:

1.1.3.1 FOR PLACEMENT OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.

1.2 SEE SHEET WOO2 FOR ADDITIONAL POOL NOTES

1.3 A SOILS INVESTIGATION SHALL BE DONE PER THE REQUIREMENTS OF INTERNATIONAL BUILDING CODE (IBC) SECTIONS 1705.6 AND 1803 OR THE INTERNATIONAL RESIDENTIAL CODE (IRC) SECTION R401.4.

1.4 THE CONTRACTOR SHALL PROTECT THE POOL STRUCTURE, DURING CONSTRUCTION AND UNTIL THE POOL IS FILLED, FROM THE PRESENCE OF HIGH GROUND WATER, SOIL EROSION, OR OTHER CONDITIONS WHICH ADVERSELY AFFECT THE POOL STRUCTURE

1.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL STABILIZATION, BRACING, AND EXCAVATION SAFETY DURING THE CONSTRUCTION OF THE POOL STRUCTURE AND SHALL COMPLY WITH ALL OSHA WORK SAFETY REQUIREMENTS AND ALL OTHER GOVERNING REGULATIONS.

I.6 THE POOL WALL MATERIAL SHALL BE CONSTRUCTED AGAINST TEMPORARY FORMWORK AND BACKFILLED WITH A MINIMUM OF 6" OF CLEAN GRANULAR DRAINAGE FILL MATERIAL, BEHIND THE POOL WALLS AND AT THE BASE OF THE POOL WALLS.

1.7 CONCRETE FORMING: DESIGN, ENGINEER, ERECT, SHORE, BRACE, AND MAINTAIN FORWORK, SHORES, AND RESHORES IN ACCORDANCE WITH ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, SO THAT RESULTING CONCRETE CONFORMS TO THE REQUIRED SHAPES, LINES, AND DIMENSIONS. DESIGN FORMWORK TO LIMIT DEFLECTION OF FORM-FACING MATERIAL TO 1/240 OF CENTER-TO-CENTER SPACING OF SUPPORTS

I.8 THE FORMWORK MUST BE CONSTRUCTED IN A STABLE MANNER WITH ADEQUATE BRACING TO PROVIDE A SOUND SUBSTRATE FOR THE POOL WALL CONSTRUCTION.

I.9 ALL FORMWORK SHALL BE REMOVED PRIOR TO PLACEMENT OF THE BACKFILL AND AFTER THE POOL WALLS HAVE ACHIEVED A MINIMUM OF 75% OF CONCRETE DESIGN COMPRESSIVE STRENGTH.

1.10 THE BACKSIDE OF THE POOL WALLS MUST BE REVIEWED TO VERIFY THAT NO SAND SEAMS OR AREAS OF DEFECTIVE GUNITE OR SHOTCRETE EXIST AND THE WALL CONSTRUCTION MUST BE APPROVED PRIOR TO BEGINNING THE BACKFILL OPERATION.

I.II THE BACKFILL MATERIAL SHALL BE CLEAN GRANULAR DRAINAGE FILL MATERIAL CAREFULLY PLACED IN A CONTROLLED AND COMPACTED MANNER PER THE SPECIFIED REQUIREMENTS.

1.12 THE POOL UNDERDRAIN SYSTEM SHALL BE PLACED WITHIN THE ZONE OF CLEAN GRANULAR DRAINAGE FILL MATERIAL BELOW THE POOL FLOOR. A GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE GRANULAR DRAINAGE MATERIAL AND THE UNDERLYING SOILS. CONTACT LANDSCAPE ARCHITECT IMMEDIATELY IN THE EVENT ANY SUBSURFACE ABNORMALITIES (INCLUDING BUT NOT LIMITED TO ACTIVE SPRINGS OR HIGH WATER TABLE) ARE ENCOUNTERED DURING POOL EXCAVATION.

1.12.1 THE GEOTEXTILE FABRIC SHALL BE A POLYPROPYLENE FABRIC WHICH IS RESISTANT TO ULTRAVIOLET DEGRADATION AND TO BIOLOGICAL AND CHEMICAL ENVIRONMENTS NORMALLY FOUND IN SOILS. THE GEOTEXTILE FABRIC SHALL BE MIRAFI HP27ON WITH AOS OF 40, MIRAFI FW700 WITH AN AOS OF 70, OR AN APPROVED

1.13 ALL WATER STOPS SHALL BE FLEXIBLE PVC WATERSTOPS MEETING CE CRD-C572. INSTALL IN ALL CONSTRUCTION JOINTS IN THE CAST-IN-PLACE CONCRETE POOL CONSTRUCTION AS SHOWN IN THE DRAWING WITH THE LONGEST LENGTHS PRACTICAL WITH SPECIALLY FABRICATED SECTIONS AT INTERSECTIONS, WHERE APPLICABLE. HEAT WELD ALL JOINTS AND INSTALL IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. PROVIDE SPECIALLY FABRICATED SECTIONS AT INTERSECTIONS WHERE APPLICABLE

1.14 THE CONTRACTOR'S SUBMITTED BASE BID CONSTRUCTION COST SHALL INCLUDE ALL MEANS AND METHODS NECESSARY FOR THE CONSTRUCTION OF THE POOL WALLS AND ASSOCIATED EARTHWORK.

2. REINFORCING STEEL

2.1 REINFORCING STEEL IN SHOTCRETE SHALL HAVE NON-CONTACT LAP AND SPACING PER INTERNATIONAL BUILDING CODE (IBC) SECTIONS 1913.4.2 AND 1913.4.3 OR

2.2 REINFORCING STEEL IN SHOTCRETE MAY HAVE CONTACT LAP SPLICES ONLY IF THE LAPS ARE STACKED PARALLEL TO THE DIRECTION OF THE SHOTCRETE (E.G., ONE BAR IS BEHIND THE OTHER AND NOT STACKED SIDE BY SIDE).

2.3 ALL REINFORCING STEEL TO BE ASTM A615 GRADE 60 OR BETTER LAP ALL BARS MIN OF 59 DIAMETERS OR 2'-O" MINIMUM. WIRE TIE AT LEAST 50% OF ALL LAPS WITH AT LEAST 16 GA WIRE OR EQUAL, BEND ALL TIES DOWN.

2.3.1 THE MEANS AND METHODS OF WIRE TIES AND CHAIRS IS NOT THE RESPONSIBILITY OF THE DESIGN TEAM. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SUPPORT OF THE REINFORCING

BARS SUCH THAT THE LOCATION DOES NOT DEFORM DURING CONCRETE PLACEMENT. THE TIES AND CHAIRS SHALL MEET THE REQUIREMENTS OF ACI 301.

2.4 REINFORCING STEEL SHALL HAVE A MINIMUM OF 2" CLEARANCE TO SOIL AND INSIDE FACE OF SHELL.

2.5 PLACE STEEL REINFORCEMENT IN CENTER OF CONCRETE UNLESS NOTED OTHERWISE.

2.6 ALL REINFORCING BARS INSTALLED INTO PREVIOUSLY CAST CONCRETE, SHOTCRETE, OR GUNITE SHALL BE ANCHORED INTO THE CONCRETE USING HILTI HY-200 ADHESIVE ANCHORING SYSTEM OR AN APPROVED EQUAL. ALL HOLES SHALL BE DRILLED WITH THE RECOMMENDED BIT SIZE, TO THE MINIMUM EMBEDMENT LENGTH SPECIFIED, AND SHALL BE THOROUGHLY CLEANED OUT WITH A BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ADHESIVE AND BARS. ALL ADHESIVE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS MUST BE FOLLOWED. THE CONTRACTOR SHALL PERFORM A QUALITY CONTROL PROGRAM DURING THE DRILLING AND CLEANING OF THE HOLES, INSTALLING THE ADHESIVE, AND INSTALLING THE BARS TO ENSURE THAT THE RECOMMENDED PROCEDURES AND REQUIREMENTS ARE BEING IMPLEMENTED.

2.7 THE CONTRACTOR SHALL SUBMIT THE POOL REINFORCING STEEL SHOP DRAWING FOR A REVIEW A MINIMUM OF 14 DAYS PRIOR TO STARTING CONSTRUCTION. THE SUBMITTED SHOP DRAWINGS SHALL INCLUDE THE BAR SIZE AND SPACING, BENDING DIAGRAMS, AND SPECIAL BAR PLACEMENT AND BENDING DIAGRAMS FOR THE REINFORCING AROUND THE CONVERTERS, MAIN DRAIN, AND OTHER NON-TYPICAL LOCATIONS. ALL BENT BARS SHALL BE SHOP FABRICATED AND COLD BENT UNLESS SPECIFICALLY APPROVED OTHERWISE.

3. CONCRETE

3.1 POOL SHELL SHALL BE MONOLITHIC SHOTCRETE (THICKNESS PER REINFORCING SCHEDULE, DETAIL I, SHEET WOO2) FREE OF JOINTS OR SEAMS (SUCH AS IN POURED POOL SHELL). SHELL SHALL BE PLACED IN ONE DAY IF POSSIBLE, IF NOT FEATHER CUT OFF SECTIONS.

3.2 CONCRETE SHALL BE PER ASTM C31 AND SHALL HAVE A MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

3.2.1 MINIMUM WATER TO CEMENT RATIO SHALL BE 0.52 WITH A MAXIMUM SLUMP OF 4" +/-1" OR 2" +/-1" FOR SHOTCRETE. THE SLUMP MAY BE INCREASED WITH THE USE OF ADMIXTURES.

3.2.2 CONCRETE SHALL HAVE 5% TO 8% AIR-ENTRAINMENT AIR-ENTRAINING ADMIXTURE SHALL MEET ASTM C260 AND SHALL BE COMPATIBLE WITH ALL OTHER CONCRETE ADDITIVES, PARTICULARLY THE SHRINKAGE REDUCING ADMIXTURE.

3.2.3 ALL CEMENT SHALL MEET ASTM C150, TYPE I OR II.

3.2.4 ALL AGGREGATE SHALL MEET ASTM C33 AND SHALL BE PROPORTIONED SUCH THAT THE MIX SHALL CONTAIN A MINIMUM OF 50% COARSE AGGREGATE. COARSE AGGREGATE SHALL MEET ASTM C33, NO. 57 AND NO. 67.

3.2.5 CONCRETE SHALL HAVE 3.0 POUNDS PER CUBIC YARD OF +/-I.5" LONG SYNTHETIC MACRO FIBER REINFORCEMENT COMPLYING WITH ASTM CII6. USE STRUX 90/40 BY GRACE CONCRETE PRODUCTS OR FIBERMESH 650 BY PROPEX CONCRETE SYSTEMS

3.2.6 CONCRETE SHALL HAVE 128 OUNCES OF SHRINKAGE REDUCING ADMIXTURE PER CUBIC YARD. ECLIPSE 45*000* BY *G*RACE CONSTRUCTION PRODUCTS OR MASTERLIFE SRA20 BY BASE CHEMICAL COMPANY ARE ACCEPTABLE SHRINKAGE-REDUCING ADMIXTURES.

3.2.7 CONCRETE SHALL HAVE WATER-REDUCING ADMIXTURE MEETING ASTM C494, TYPE A OR TYPE F. WATER-REDUCING ADMIXTURES SHALL BE COMPATIBLE WITH ALL OTHER CONCRETE ADDITIVES AND SHALL BE USED AT A DOSAGE PER THE MANUFACTURER'S RECOMMENDATIONS.

3.2.8 ALL ADMIXTURES SHALL CONTAIN NO MORE THAN 0.1% CHLORIDE IONS.

3.3 THE CONTRACTOR SHALL IMPLEMENT ANY NECESSARY PLACEMENT, FINISHING, AND CURING OPERATIONS TO ACCOMMODATE ANY SPECIAL REQUIREMENT OF THE CONCRETE MIX DESIGN AND CONCRETE ADDITIVES.

3.3.I THE DESIGN INTENT IS TO MINIMIZE CRACKING AND SHRINKAGE CRACKS. THE CONTRACTOR SHALL CAREFULLY COORDINATE THE TIMING OF CONCRETE POURS WITH THE MIX DESIGNS AND FINISH SCHEDULES TO ASSURE THAT CRACKING IS REDUCED. THE CONTRACTOR SHALL CONTACT THE DESIGN TEAM IF CONCERNS OR QUESTIONS ARE PRESENT.

3.4 WET CURE THE POOL FLOOR SLAB FOR A MIN. OF 7 DAYS PRIOR TO STARTING CONSTRUCTION OF THE POOL WALLS. WET CURE THE POOL WALLS DURING GUNITE OR SHOTCRETE PLACEMENT AND CONTINUE THE WET CURING OF THE POOL WALLS FOR A MIN OF 7 DAYS FOLLOWING THE COMPLETION OF THE WALLS.

3.5 THE POOL WALLS SHALL ONLY BE CONSTRUCTED USING WET-GUN SHOTCRETE OR DRY-GUN GUNITE CONSTRUCTION.

3.5.1 THE CONTRACTOR SHALL SUBMIT DESIGN MIXES FOR CAST-IN-PLACE CONCRETE, WET-GUN GUNITE, AND GROUT FOR REVIEW A MINIMUM OF 14 DAYS PRIOR TO STARTING CONSTRUCTION.

3.5.2 SHOTCRETE INCLUDES BOTH WET-MIX AND DRY-MIX (GUNITE).

3.5.3 SHOTCRETE SHALL BE DONE AT A HIGH VELOCITY OF 350 TO 400 FEET-PER-SECOND.

3.5.4 SHOTCRETE TERMINOLOGY SHALL FOLLOW THE AMERICAN SHOTCRETE ASSOCIATION'S POSITION STATEMENT #2.

3.5.5 REBOUND, TRIMMING, AND LOOSE DEBRIS SHALL BE REMOVED FROM THE STRUCTURE AND SHALL NOT BE USED IN ANY MANNER WITHIN THE STRUCTURE OR VESSEL

DRY-GUN GUNITE:

3.5.6 GUNITE SHALL BE PROPORTIONED FOR ONE PART CEMENT TO FOUR PARTS SAND BY VOLUME. THE COLUMN PROPORTIONS SHALL BE BASED ON A UNIT WEIGHT METHOD, NOT AN ABSOLUTE VOLUME

3.5.7 CEMENT AND SAND SHALL BE DRY MIXED.

3.6 ALL CONCRETE WORK SHALL BE IN STRICT CONFORMANCE WITH THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE". ALL GUNITE AND SHOTCRETE WORK SHALL CONFORM WITH ACI 506.

3.7 THE CONSTRUCTION JOINT BETWEEN POURED FLOOR AND GUNITE OR SHOTCRETE POOL WALL SHALL BE SANDBLASTED CLEAN AND A LAYER OF GROUT PASTE SHALL BE APPLIED IMMEDIATELY PRIOR TO STARTING GUNITE OR SHOTCRETE WALL CONSTRUCTION. THE GROUT PASTE MUST NOT BE ALLOWED TO DRY PRIOR TO STARTING THE WALL CONSTRUCTION.

3.8 CAST-IN-PLACE CONCRETE, GUNITE, AND SHOTCRETE, SHALL BE TESTED DURING PLACEMENT AS FOLLOWS:

3.6.I PROVIDE ONE SET OF FOUR TEST CYLINDERS PER ASTM C31 FOR EACH DAYS POUR OR FOR EACH 30 CUBIC YARDS OF MATERIAL PLACED, WHICHEVER IS GREATER. TEST AT POINT OF DISCHARGE PER ASTM C143 FOR EACH SET OF TEST CYLINDERS TAKEN.

3.6.I.I COMPRESSIVE STRENGTH TEST: ONE SET OF FOUR CYLINDERS PER ASTM C39. TEST ONE CYLINDER AT 7-DAYS, TWO CYLINDERS AT 28- DAYS AND HOLD ONE IN RESERVE TO BE TESTED AS DIRECTED.

3.8.2 AIR CONTENT: VOLUMETRIC METHOD PER ASTM C 173 OR PRESSURE METHOD PER ASTM C231 FOR EACH SET OF TEST CYLINDERS TAKEN.

3.6.3 CONCRETE TEMPERATURE: ONE TEST PER ASTM CI064 FOR EACH SET OF TEST CYLINDERS TAKEN HOURLY WHEN AIR TEMPERATURE IS BELOW 40 DEGREES F OR ABOVE 90 DEGREES F.

3.8.4 GUNITE OR SHOTCRETE TEST PANELS SHALL BE FABRICATED BY GUNNING ONTO A HEAVY PLYWOOD OR STEEL PLATE FORM SHOOTING FROM EACH POSITION TO BE ENCOUNTERED DURING THE POOL CONSTRUCTION.

3.8.4.1 THE TEST PANELS SHALL BE A MINIMUM OF 24"X24" BY 8" THICK AND SHALL BE OF ADEQUATE SIZE TO TAKE A SET OF FOUR 4" DIAMETER CORE SAMPLES FROM EACH TEST PANEL.

3.8.4.2 THE TEST PANELS SHALL BE CURED TO MATCH THE CURING METHODS UTILIZED ON THE POOL WALLS AND THE CORE SAMPLES SHALL BE HANDLED, SOAKED AND TESTED PER ACI 506, ASTM C42, AND ASTM C39, TEST ONE CORE AT 7-DAYS, TWO CORES AT 28-DAYS , AND HOLD ONE CORE IN RESERVE TO BE TESTED AS DIRECTED.

3.6.5 ALL CONCRETE TESTING AND SAMPLING SHALL BE PERFORMED BY PERSONNEL TRAINED AND CERTIFIED IN CONCRETE SAMPLING.

3.8.6 TEST RESULTS SHALL BE SUBMITTED TO ARCHITECT. ENGINEER. AND CONTRACTOR WITHIN 24 HOURS OF COMPLETING TESTS. CONCRETE TESTING SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY.

4. FOUNDATIONS

4.1 ALL EARTHWORK AND COMPACTED FILL SHALL MEET THE REQUIREMENTS OF THE PROJECT GENERAL NOTES AND ALL THE FOLLOWING EARTHWORK RELATED NOTES.

4.2 THE POOL WALLS ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 62.4 PCF. THE BOTTOM OF THE POOL STRUCTURE SHALL BE SUPPORTED ON SOILS CAPABLE OF PROVIDING AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.

4.3 A GEOTECHNICAL ENGINEER SHALL DETERMINE IF THE EXPOSED SUBGRADE SOILS ARE ACCEPTABLE TO SUPPORT THE POOL FILL MATERIAL OR IF UNSTABLE OR UNSUITABLE SOILS EXIST WHICH REQUIRE REMOVAL AND REPLACEMENT.

4.3.1 THE CONTRACTOR SHALL VERIFY WITH THE GEOTECHNICAL ENGINEER THAT THE SOILS BELOW AND ADJACENT TO THE POOL STRUCTURE ARE SATISFACTORY FOR SUPPORT OF THE POOL STRUCTURE AND MEET THE SPECIFIED REQUIREMENTS PRIOR TO STARTING CONSTRUCTION OF THE POOL STRUCTURE. THE GEOTECHNICAL ENGINEER PERFORMING THE FIELD SHALL SUBMIT A LETTER STATING THAT THE SOIL MATERIALS ADJACENT TO THE POOL STRUCTURE ARE ACCEPTABLE AND MEET THE SPECIFIED REQUIREMENTS.

4.4 ALL POOL FLOOR AREAS SHALL BE CONSTRUCTED ON A MINIMUM NEW 18" THICK ZONE OF GRANULAR DRAINAGE FILL MATERIAL, PLACED OVER RECONDITIONED AND APPROVED NATIVE SOILS OR ADDITIONAL ENGINEERED FILL SOILS

4.4.I OVEREXCAVATE BELOW AND BEYOND THE GEOMETRY OF THE POOL STRUCTURE AS REQUIRED TO CONSTRUCT THE SPECIFIED ZONE OF DRAINAGE FILL MATERIAL.

4.4.2 FOLLOWING THE EXCAVATION OPERATIONS, THE NATIVE SOILS ENCOUNTERED SHOULD BE PROOFROLLED TO IDENTIFY ANY SOFT OR UNSTABLE AREAS. ANY EXISTING FILL MATERIAL OR OTHER UNSTABLE OR UNSUITABLE MATERIALS IDENTIFIED SHOULD BE REMOVED.

4.4.3 THE SPECIFIED MOISTURE CONTENT OF THE NATIVE SOILS ENCOUNTERED BELOW OR ADJACENT TO THE POOL STRUCTURE SHALL BE REMOVED PRIOR TO PLACING ANY NEW FILL MATERIAL

4.4.4 THE GEOTECHNICAL ENGINEER SHALL REVIEW THE EXCAVATION, THE PROOF ROLLING OPERATION, AND APPROVED THE BASE SOILS PRIOR TO STARTING PLACEMENT OF ANY FILL MATERIAL

4.5 THE CLEAN GRANULAR DRAINAGE FILL MATERIAL BELOW THE POOL FLOOR AND BEHIND THE POOL WALLS SHALL BE A CLEAN, WELL-GRADED, CRUSHED ROCK MEETING ASTM C33 COARSE AGGREGATE GRADING REQUIREMENTS FOR NO. 57 OR NO. 67 AGGREGATE.

4.6 ANY GENERAL FILL SOILS PLACED BELOW OR BEYOND THE ZONE OF GRANULAR SOILS WITHIN OR BEYOND THE AREA OF THE POOL MUST BE APPROVED, CLEAN, ON-SITE SOILS.

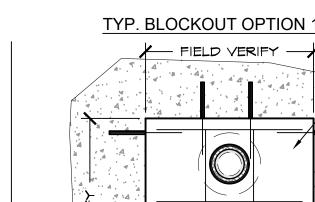
4.7 ALL PROPOSED ON-SITE OR BORROW FILL MATERIAL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

4.8 ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 8" THICK LOOSE LIFTS AND BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698, STANDARD PROCTOR PROCEDURES.

4.9 ALL SOILS SHOULD BE PLACED WITH A MOISTURE CONTENT BETWEEN -2% AND +2% OF THEIR OPTIMUM MOISTURE CONTENT VALUE.

4.10 GRANULAR SOILS SHALL BE PLACED AT A WORKABLE MOISTURE CONTENT. THE PLACEMENT OF ALL FILL MATERIAL SHALL BE MONITORED, TESTED, AND APPROVED BY THE GEOTECHNICAL ENGINEER.

4.11 THE CONTRACTOR SHALL COORDINATE WITH A GEOTECHNICAL ENGINEER TO VERIFY THAT THERE ARE NOT ANY UNDERLYING SUBSTRATES THAT COULD CREATE INSTABILITIES OR SETTLEMENTS, E.G. CAVES, MINES, BURIED TANKS, OR DEFORMITIES DUE TO KARST TOPOGRAPHY.



TYP. BLOCKOUT OPTION 2

- FIELD VERIFY -

HOUSTON, TEXAS, U.S.A.

E-MAIL: INFO@PSIPSI.COM

LINK-SEAL MODULAR SEAL

DIMENSIONAL DATA FOR MODELS C, L, O, S-316, S61, LS-316 & OS-316

Rubber Sealing Elements

Dimensional Data

TEL: 800-423-2410

CONCRETE INFILL MATCHES WIDTH - FIELD VERIFY ---OF EXIST WALL. CONCRETE TO HAVE MICROFIBER REINF. AT RATE OF DOSAGE PER MFR. INSTRUCTIONS -EXISTING STRUCTURAL WALL OR SLAB CONSTRUCTION EMBED INTO CENTER OF EXIST

*#4x1'-6" BARS @ 12" O.C. 6" ADH WALL TYP AROUND PERIMETER ELASTOMERIC SEAL ELEMENT (LINK-SEAL SLEEVE)

- PIPE SLEEVE *#4 BARS @ 12" O.C. E.W. APPLY EPOXY BONDING AGENT TO EDGE OF EXISTING

-EDGE OF FOCUSED PLUMBING

-ELASTOMERIC SEAL ELEMENT

PIPE SLEEVE SET IN PLACE

REBAR REINF. BY OTHERS

SET PIPE SLEEVING INTEGRAL W/

- ELASTOMERIC SEAL ELEMENT LS

MODEL (C, L, S-316, O, OS-316, T)

PVC PIPE (DIA VARIES) REFER

ALT: CORE DRILLED HOLE

- ANCHOR COLLAR/ WATER STOP

CAST-IN-PLACE WALL SLAB

TO HYDRAULIC PLANS

-PVC WALL SLEEVE

FOR LS-325 THROUGH LS-650

0.97" 0.31" 4mm Allen (0.157") 4.95mm (0.195") M5 0.8 65mm (2.55

5.30mm (0.215") M8 1.25 110mm (4.33"

6.40mm (0.250") M10 1.5 130mm (5.11)

6.40mm (0.250") M10 1.5 130mm (5.118

AT STRUCTURAL SLAB & WALL BLOCKOUTS

0.69" 2.37" 1.87" 1.56" 0.44" 6mm Allen (0.236") 7.87mm (0.310") M8 1.25 90mm (3.54)

1.43" 3.37" 2.87" 2.52" 0.88" 17mm(0.669") 6.40mm(0.250") M10.1.5 130mm(5.118")

L56" 3.38" 2.63" 2.63" 0.88" 17mm(0.669") 6.40mm(0.250") M10 1.5 130mm(5.11)

2.06" 3.75" 2.87" 3.63" 1.06" 1.9mm/0.748" 7.50mm/0.300" M12.1.75 1.40mm/5.51:

3.75" 2.75" 3.63" 1.06" 19mm(0.748") 7.50mm(0.300") M12 1.75 140mm(5.511"

LS 325 * 0.88" 2.63" 2.00" 3.13" 1.00" 13mm (0.511") 5.30mm (0.215") M8 1.25 110mm (4.33"

WALL OR SLAB REINFORCING THEN

FORM WALL AND CAST CONCRETE

WALL OR SLAB, BY OTHERS

PRIOR TO FORMING OF WALL

RUN, BLOCKOUT

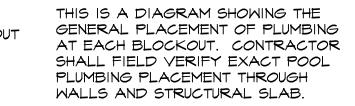
(LINK-SEAL SLEEVE)

- WATERSTOP

LINK-SEALO MODULAR SEALS WITH CAST OR CORE DRILLED WALL

OPENING MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC.

BOOK KOUT FORM WALL OR SLAB W/ BLOCKOUT THEN RUN PLUMBING AFTER



TYP. BLOCKOUT OPTION 2 EXAMPLE IMAGE

Installation Techniques - LINK-SEAL® Modular Seals

 Center the pipe, cable or conduit in wall opening or casing. Make support the weight of the pipe.

iust enough so links move freely

3. Check to be sure all bolt heads are

NOTE: On smaller diameter pipe, links may nee

facing the installer. Extra slack or

sag is normal. Do **not** remove links

onnect both ends of belt around

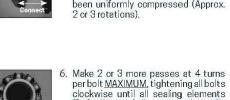
rotations) more than 4 turns at a time. Continu

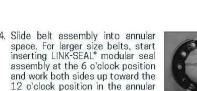
socket allen head or off-set wrench

ONLY, start at 12 o'clock. Do not

at a time. Continue in a clockwise manner until links have been uniformly compressed (Approx 2 or 3

tighten any bolt more than 4 turns





using the instructions provided, call GPT at 1-800-423-2410.



Installation Notes: The LINK-SEAL* modular seal bolt head are usually recessed below the wall opening or the edge of asing pipe and therefore a socket or offset wrench must

Installation Techniques - LINK-SEAL® Modular Seals

ALWAYS WEAR PPE WHEN USING LINK-SEAL' MODULAR SEALS

LINK-SEAL® Modular Seal - Do's . Make sure pipe is centered.

2. Install the belt with the pressure plates evenly 3. Install the exact number of links indicated in sizing

backfill operations. NOTE: LINK-SEAL* modular seals are not 5. Make sure seal assembly and pipe surfaces are free 5. Do not use power tools on LINK-SEAL* modular seal

assist installation.

LINK-SEAL® Modular Seal - Don'ts . Don't Install the belt with the pressure plates aimed in irregular directions. (Staggered) Don't Install LINK-SEAL* modular seals where weldbeads or other irregular surfaces exist without

consideration of the sealing requirements. Don't torque each bolt completely before moving on to 4. Don't use high speed power tools (450 rpm or more)

6. For tight fits, use non-polluting liquid detergent to 6. Don't use grease installing LINK-SEAL* modular seals. ovided.) Tools can be purchased from hardware store.



4mm, Allen 6mm, Aller 13mm, Hex 17mm, Hex 19mm, Hex



* = Specify sleeve length in inches ** = See CELL-CAST* Page 25 *** = Specify LS Model C, S 816, L...etc when ordering (Example LS 475 C 17) Technically there is no limit to the pipe size that can be sealed using LINK-SEAL* modular seals. Please contact factory for sizes not listed and for CS model plastic sleeves for walls less than 8" thick.

DESIGN GROUP

8021 SANTA FE DRIVE

OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM



Missouri COA #001268

REVISION:

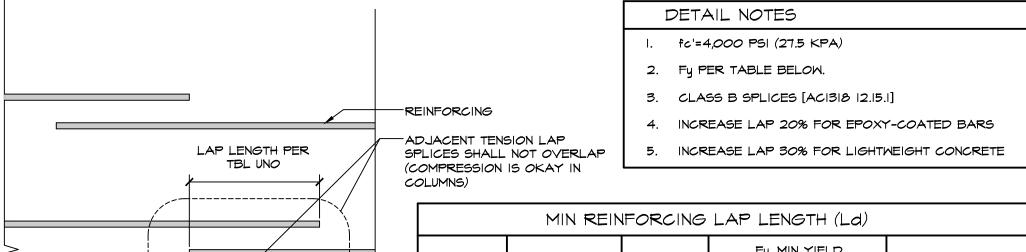
FEBRUARY 23, 2021

STANDARD NOTES

POOL REINFORCING SCHEDULE NOTES

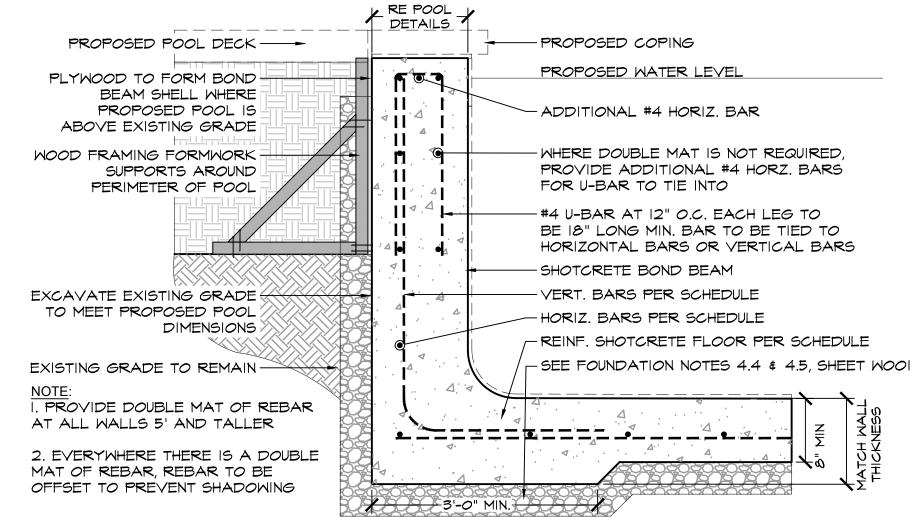
- SEE POOL PLAN FOR SECTIONS AND DETAILS AT THE SHALLOW AREAS OF THE POOL
- THE SPRINGLINE ELEVATION IS THE VERTICAL WATER DEPTH WHERE THE RADIUS LENGTH INTERSECTS THE SURFACE OF THE POOL FLOOR
- PROVIDE 2" OF CONCRETE, OR GUNITE COVER ON ALL WALL REINFORCING BARS
- SUPPORT FLOOR SLAB REINFORCING BARS ON BAR SUPPORTS @ 36" O.C. EACH WAY WITH CONCRETE BLOCK OR CHAIRS PER ACI 301. SEE DETAILS FOR BAR SUPPORT HEIGHTS.
- REINFORCING STEEL SHOWN IN SCHEDULE IS MINIMUM REQUIRED. CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL PER CROSS SECTIONS

POOL REINFORCING SHEDULE SCALE: NTS



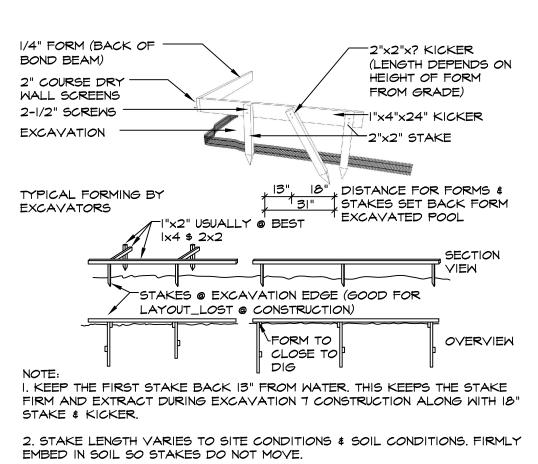
	BAR SIZE	NOMINAL DIA	GRADE	Fy, MIN YIELD STRENGTH	MIN LAP LENGTH
•	#3	3/8" (10 MM)	40	40,000 PSI (300 MPA)	20" (500 MM)
	#4	1/2" (13 MM)	60	60,000 PSI (300 MPA)	25" (625 MM)
	#5	5/8" (16 MM)	60	60,000 PSI (420 MPA)	32" <i>(800</i> MM)
	#6	3/4" (19 MM)	60	60,000 PSI (420 MPA)	38" (950 MM)
	م]	STM A615 (A615M)]		[ACI318 12.15.1]

SHOTCRETE NON-CONTACT LAP SPLICES SCALE: NTS

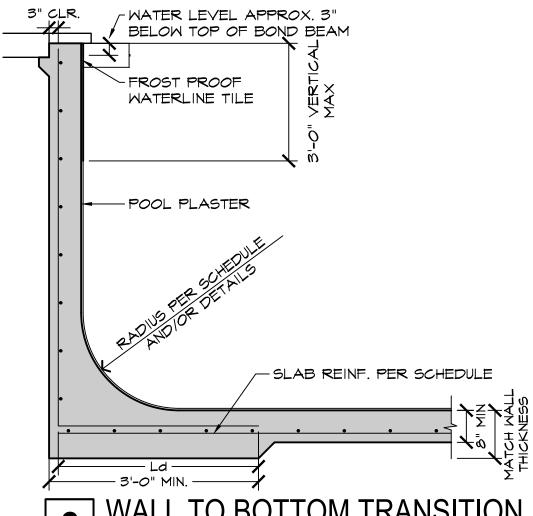


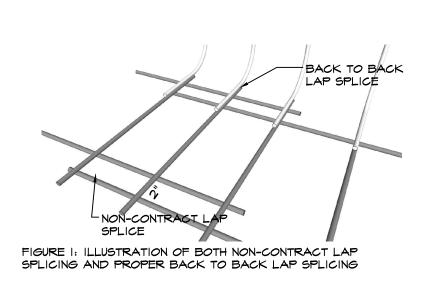
TYPICAL REBAR TYING / WALL FRAMING FORMWORK SCALE: NTS

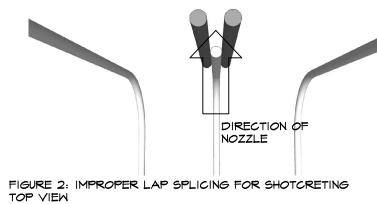
> 2 ROWS #4 BARS AT 12" O.C. E.W. AT STAIRS



STRUCTURAL FRAMING FORMWORK SCALE: NTS







POOL MAIN DRAINS DRAFTED FOR REFERENCE,

DRAINS TO BE INSTALLED MIN OF 3'-O" APART

RE PLUMBING PLAN FOR FINAL LOCATIONS

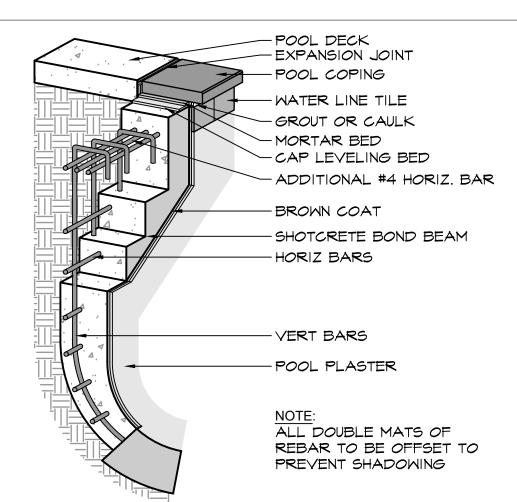
PROVIDE REINFORCING AROUND DRAINS

PROVIDE DOUBLE MAT OF REBAR-

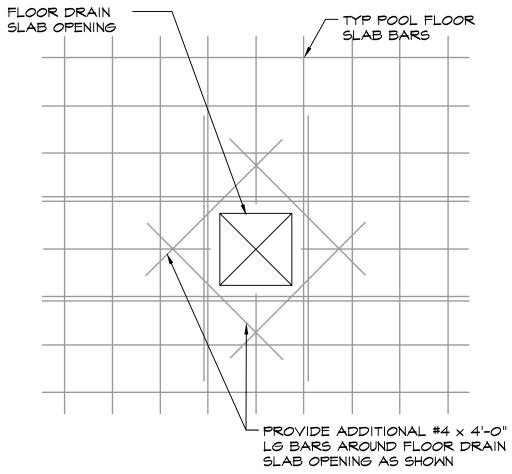
WHERE POOL WALL IS OVER 5' HT

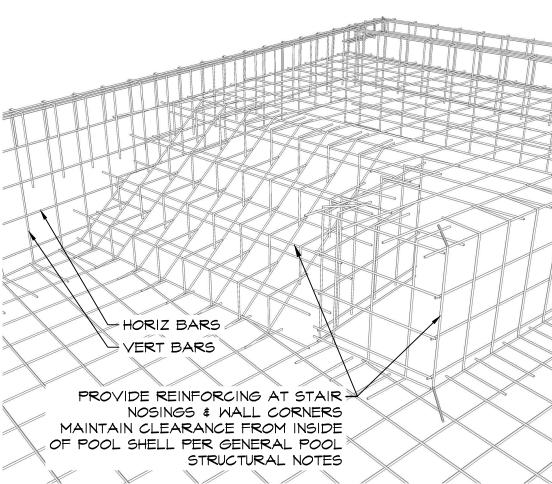
(3) #4 HORIZONTAL BARS IN

BOND BEAM LAP MIN 24"

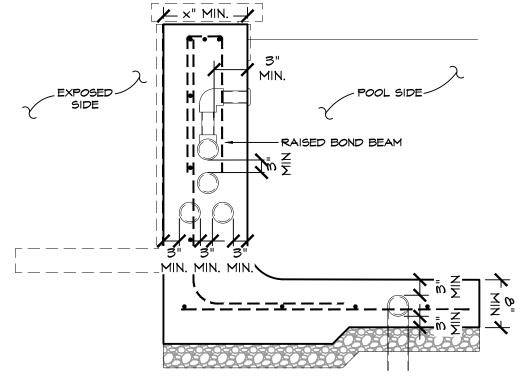


BOND BEAM REBAR VIGNETTE ILLUSTRATIVE VIEW





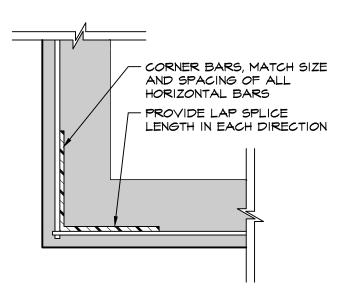
TYPICAL REBAR LAYOUT SCALE: N.T.S. **VIGNETTE**



14 BOND BEAM PLUMBING CLEARANCES

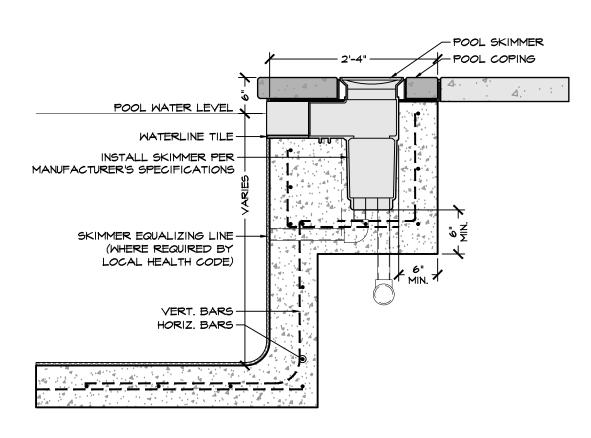
POOL WATER LEVEL THIS DETAIL IS FOR REINFORCING PER PLAN AT POOL STEPS ONLY. SEE POOL CROSS SECTIONS AND DETAILS FOR SPECIFIC TREAD & RISER DIMENSIONS AND LAYOUT -HORIZONTAL BAR -2 ROWS #4 BARS AT 12" O.C. E.W.

SCALE: N.T.S. CROSS SECTION

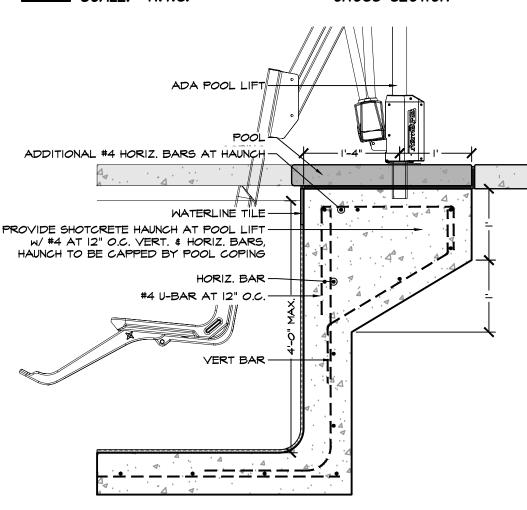


TYPICAL DETAIL @ ALL POOL WALL HORIZ. BARS PROVIDE CORNERBARS TO MATCH HORIZ. BARS ON INSIDE AND OUTSIDE FACE OF WALL WHERE APPLICABLE

4 CORNER BAR DETAIL



SCALE: N.T.S. CROSS SECTION



ADA LIFT INSTALLATION

SCALE: N.T.S. CROSS SEC CROSS SECTION

15 REINFORCING AT POOL STEPS

NOTE

PROVIDE REINF. FOOTING

TO FROST AT ENTRY REEF

I. THIS IS A DIAGRAM ILLUSTRATION FOR POOL REINFORCING. SEE 3. DOUBLE MAT OF REBAR SHALL BE PROVIDE AT ALL POOL PLAN AND CROSS SECTIONS FOR DEPTHS AND SLOPES

2. FOOTING DESIGNS ARE BASED ON AN ASSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWABLE FOUNDATION PRESSURE 4. DOUBLE MAT OF REBAR SHALL BE PROVIDED AT ALL OF 1500 PSF WITH A MAXIMUM DIFFERENTIAL SETTLEMENT OF ½ INCH. CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO

DETERMINE WHETHER OR NOT SOIL MEETS THIS MINIMUM CRITERIA AND IF IT DOES NOT, SHALL NOTIFY ENGINEER SO THAT THE

FOUNDATION MAY BE REDESIGNED ACCORDINGLY.

SHOTCRETE WALLS 5' AND GREATER IN HEIGHT. REBAR TO BE OFFSET TO PREVENT SHADOWING

REINFORCING RE: SCHEDULE FOR WALL AND SLAB. TIE VERT.

REINFORCING INTO SLAB WITH LAP LENGTH PER SCHEDULE

SHOTCRETE WALL GREATER THAN 12" THICK. REBAR TO BE

OFFSET TO PREVENT SHADOWING

TYPICAL POOL REINFORCING CROSS SECTION SCALE: NTS

CROSS SECTION

DESIGN GROUP

8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM

JAMES M. GRANICH NUMBER PE-2014023909 2/22/2021

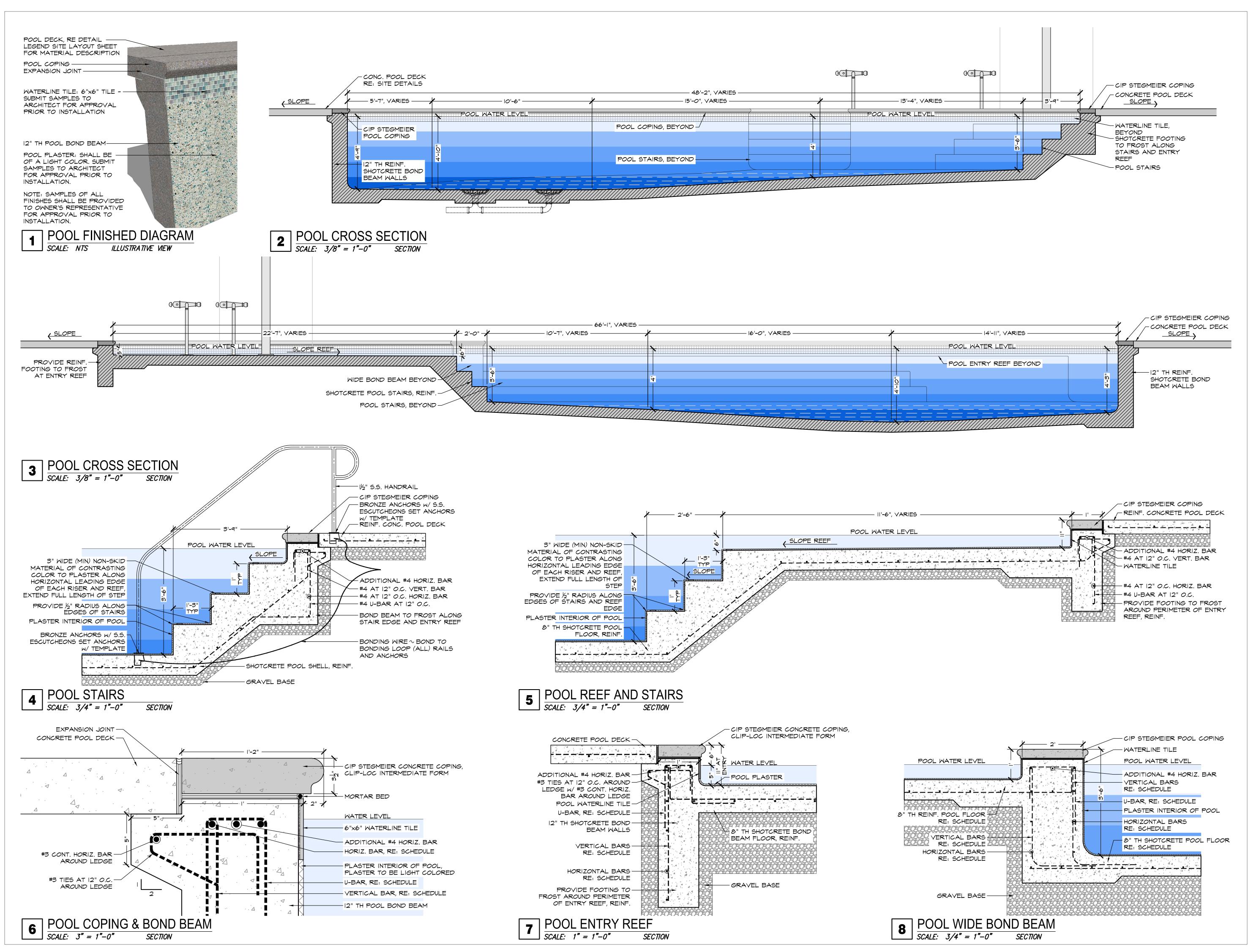
Missouri COA #001268

REVISION:

FEBRUARY 23, 2021

STANDARD NOTES &

STRUCTURAL DETAILS





Missouri COA #001268

SUMMIT VIEW FARMS POOL CONSTRUCTION DOCUMENTS

REVISION:

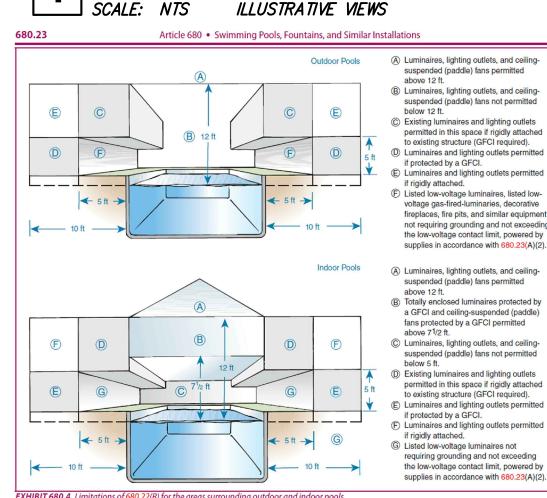
FEBRUARY 23, 2021

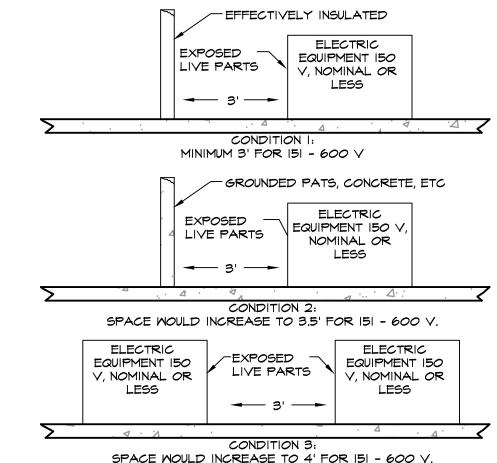
POOL DETAILS





SWIMMING POOL VIGNETTE









I. CALL 811 FROM ANYWHERE IN THE USA AND YOUR CALL WILL BE ROUTED TO YOUR LOCAL ONE-CALL CENTER WHERE OPERATORS WILL ASK YOU FOR THE LOCATION OF YOUR DIGGING/DRILLING JOB AND ROUTE YOUR CALL TO THE AFFECTED UTILITY COMPANIES. YOUR LOCAL UTILITY COMPANIES WILL THEN SEND A PROFESSIONAL LOCATOR TO YOUR JOB TO MARK CONFLICTS WITHIN A FEW DAYS.

2. CALL AT LEAST 3 DAYS BEFORE EXCAVATING TO AVOID SERIOUS FINES AND REPAIR EXPENSES, MARK THE PLANNED EXCAVATION AREAS WITH WHITE PAINT. PAINT SHALL BE WATER-BASED QUIK-MARK BY KRYLON OR EQUAL

3. PROVIDE: ADDRESS, CITY, COUNTY, FOREMAN'S NUMBER, COMPANY, NATURE OF WORK, DATE WORK WILL BEGIN, PERMIT NUMBER, THOMAS GUIDE PAGE AND GRIDS.

4. UTILITY MARKERS GENERALLY EXPIRE AFTER 14 DAYS AFTER WHICH THE PROCESS MUST BE REPEATED. NO EXCAVATION PERMIT IS VALID WITHOUT FIRST CALLING 811. HAND-DIG TO 24" ON EITHER SIDE OF ALL UTILITIES. IT IS THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO EACH CALL 811.

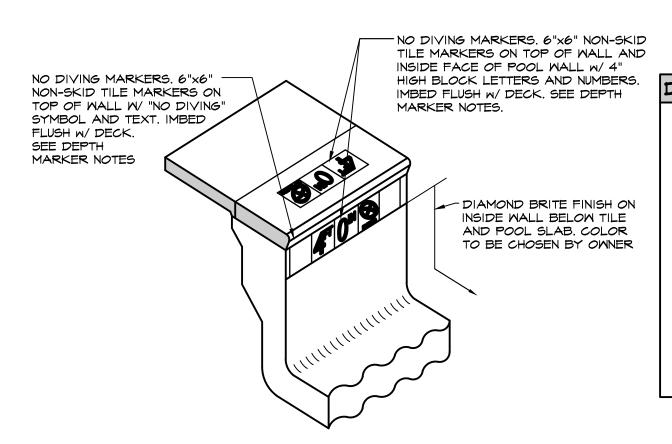
5. EXCAVATION REQUIREMENTS VARY DEPENDING ON LOCAL LAWS. COLOR CODES MAY VARY AND LOCAL REQUIREMENTS SHALL SUPERSEDE THIS GENERAL WARNING. FOR MORE INFORMATION, CHECK OUT THE COMMON GROUND ALLIANCE AT MMM.CALL811.COM.

6. COLOR KEY: WHITE - PROPOSED EXCAVATION PINK - TEMP. SURVEY MARKINGS RED - ELECTRIC YELLOW - GAS/OIL/STEAM ORANGE - COMMUNICATIONS/CATV BLUE - WATER PURPLE - RECLAIMED WATER

GREEN - SEWER

SCALE: NTS

DIGGING / DRILLING ALERT SCALE: N.T.S.



|DEPTH / WARNING MARKER NOTES: DEPTH MARKERS SHALL BE LOCATED A MAXIMUM OF 25'-O" OR LESS CENER TO CENTER AROUND THE FULL PERIMETER OF THE SWIMMING POOL.

2. THE MAXIMUM DEPTH OF THE SWIMMING POOL SHALL BE MARKED ON BOTH SIDES OF THE SWIMMING POOL AT THE

3. THE DEPTH SHALL BE MA4RKED AT 6" DEPTH INTERVALS. SEE DEPTH MARKERS SCHEDULE ON POOL PLAN DRAWING FOR MORE INFORMAITON.

4. "NO DIVING" SYMBOL TILES SHALL BE LOCATED ON

THE DECK WITH EACH SET OF DEPTH MARKERS IN O" TO

5'-0" OF WATER. 5. LETTER, NUMBER AND GRAPHIC MARKERS SHALL BE SLIP RESISTANT, OF A CONTRASTING COLOR FROM THE DECK AND AT LEAST 4" IN HEIGHT

BASECRETE + POOL SHELL AND POOL TILE WATERPROOFING SYSTEM GUIDE

GLASS POOL TILE - P602 TCNA STANDARD

PRESSURE WASH AND CLEAN TO BE TILED WITH BASECRETE POOL SHELL CLEANER BTH-37-1015 - BASECRETE POOL SHELL CLEANER

2. STABILIZE WITH pH - APPLY BASECRETE POOL SHELL pH-STABILIZER. CURE 24 HOURS • BTH-37-1014 - BASECRETE POOL SHELL STABILIZER 3. PRIMARY WATERPROOFING - APPLY BASECRETE + POOL SHEEL

PRIMARY WATERPROOFING (PENETRATING COLLOIDAL SILICATE). 4. PRESSURE WASH AND CLEAN POOL SHELL SURFACE

5. APPLY APPROVED MORTAR BED BOND COAT - BASECRETE BOND

6. INSTALL APPROVED MORTAR BED

1. SECONDARY WATERPROOFING / BOND COAT - APPLY BASECRETE SECONDARY WATERPROOFING / BOND COAT TO A LIGHTLY DAMPENED SURFACE. CURE 48 HOURS. • BTH-37-1001 PART | OF 2 - (I) 5 GAL. OF LIQUID AND

• BTH-37-1002 PART 2 OF 2 - (3) 50 LBS OF GREY COMPOUND OR/ • BTH-37-1003 PART 2 OF 2 - (3) 50 LBS OF WHITE COMPOUND OR/ FOR GENERAL QUESTIONS EMAIL: info@basecreateusa.com • BTH-37-1004 PART 2 OF 2 - (3) 50 LBS OF BLACK COMPOUND

8. APPLY APPROVED TILE BOND COAT ADHESIVE

9. INSTALL TILE IO. INSTALL GROUT

YPICAL POOL SHELL WATERPROOFING GUIDE

BASECRETE RECOMMENDED CURE TIMES

WATERPROOFING - 24 HOURS

COAT - 48 HOURS

MARIANO - 941-879-4600

DISTRIBUTOR

. BASECRETE + POOL SHELL PRIMARY

BASECRETE POOL SHELL pH- STABILIZER - 24 HOURS

BASECRETE + SECONDARY WATERPROOFING / BOND

PRODUCTS MAY BE PURCHASED AT YOUR LOCAL

BASECRETE PRODUCTS ARE APPROVIDE AND

OCEANSIDE GLASS AND TILE AND GENESIS

CONTACT: BEAU LAMB - 561-389-8806

RECOMMENDED FOR PRIMARY AND SECONDARY

BASECRETE PROUDLY SPONSORS GENESIS AND

FOR TECHNICAL QUESTIONS PLEAS CONTACT: VITO

FOR SALES, SUPPORT AND TRAINING ASSISTANCE PEASE

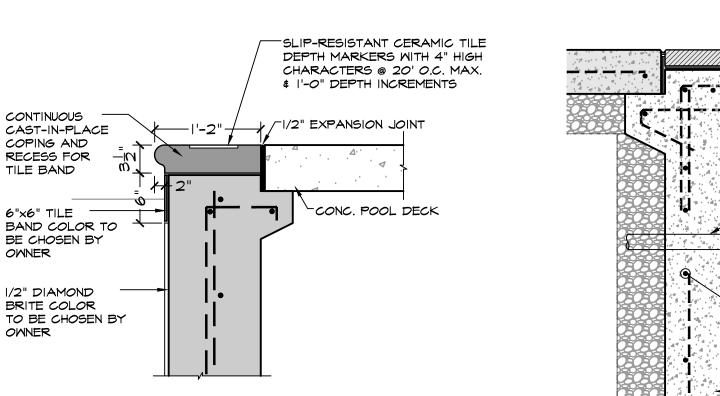
NOTE: INSTALL PER MANUFACTURERS RECOMMENDATIONS

POOLCORP, NPT, SCP, OR SUPERIOR POOL PRODUCT

WATERPROOFING FOR POOL SHELLS BY NPT, SCP, SSP,



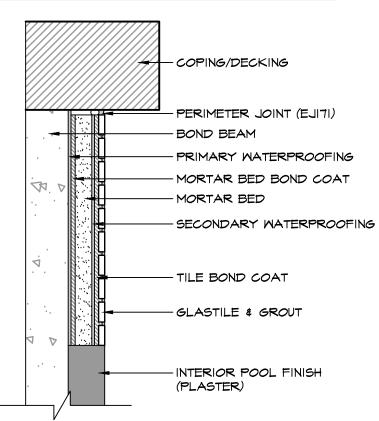
BASECRETE PLUS (COLLOIDAL CONCETE DENSIFIER) SCALE: NTS MANUF. SPECS.



POOL PLASTEER/MARKER DETAIL

-POOL COPING WATERLINE TILE NORMAL WATER LEVEL PLASTER INTERIOR OF POOL PVC RETURN INLET PIPE, RE PLUMBING PLAN FOR PIPE SIZES HYDRAULIC WATER-STOP CEMENT FLUSH-MOUNT EYEBALL FITTING, COLOR TO MATCH WATERSHAPE FINISH. SOLVENT WELD TO INSIDE OF PIPE PROVIDE #4 \times 4'-0" LG EA SIDE OF PIPE REINF. SHOTCRETE BOND BEAM RE: SCHEDULE 10 STANDARD RETURN FITTING

BASECRETE + POOL SHELL REMODEL AND NEW POOL SHELL CONSTRUCTION GUIDE



PRESSURE WASH AND CLEAN POOL SHELL SURFACE WITH BASECRETE POOL SHELL CLEANER

2. STABILIZE THE pH - APPLY BASECRETE POOL SHELL pH- STABILIZER. CURE 24 HOURS BTH-37-1014 - BASECRETE POOL SHELL pH- STABILIZER

• BTH-37-1015 - BASECRETE POOL SHELL CLEANER

3. PRIMARY WATERPROOFING - APPLY BASECRETE + POOL SHEEL PRIMARY WATERPROOFING (PENETRATING COLLOIDAL SILICATE). CURE 24 HOURS

• BTH-37-1013 - BASECRETE + POOL SHELL PRIMARY WATERPROOFING 4. PRESSURE WASH AND CLEAN POOL SHELL SURFACE

5. INSTALL HIGH STRENGTH BASECRETE REINFORCING MESH OVER TRANSITION AREAS, JOINTS, CHANGE OF PLANES, CRACKS AND FRACTURES IN POOL SHELL USING BASECRETE SECONDARY WATERPROOFING • BTH-37-1008 - BASECRETE 4"x150" REINFORCING MESH BTH-37-1009 - BASECRETE 9.5"x105' REINFORCING MESH

• BTH-37-1011 - BASECRETE 38"x150' REINFORCING MESH 6. SECONDARY WATERPROOFING / BOND COAT - APPLY BASECRETE SECONDARY WATERPROOFING / BOND COAT TO A LIGHTLY

BTH-37-1010 - BASECRETE 12"x150" REINFORCING MESH

DAMPENED SURFACE . CURE 48 HOURS • BTH-37-1001 - PART | OF 2 - (1) 5 GAL OF LIQUID AND • BTH-37-1002 - PART 2 OF 2 - (3) 50 LBS OF GREY COMPOUND OR/

• BTH-37-1003 - PART 2 OF 2 - (3) 50 LBS OF WHITE COMPOUND OR/ • BTH-37-1004 - PART 2 OF 2 - (3) 50 LBS OF BLACK COMPOUND 7. INSTALL PLASTER

BASECRETE

PRODUCT SPECIFICATION 1.1 DESCRIPTION BASECRETE IS A WATERPROOFING BONDCOAT / UNDERLAYMENT / MICRO TOPPING FOR USE IN ALL APPLICATIONS WHERE A SOLID AND DURABLE WATERPROO BARRIER IS REQUIRED. BASECRETE WILL ADHERE TO MOST SURFACES, RESISTANT TO MOST CHEMICALS AND CORROSIVE AGENTS AND CAN WITHSTAND HIGH DEGREE OF MOVEMENT WHILE MAINTAINING ITS INTEGRITY, BASECRETE IS . LIQUID AND COMPOUND MIX DESIGN AVAILABLE IN 1 & 5 GALLON PAILS AND 50LI

CONCRETE WATERPROOFING BOND COAT

WATERPROOFING APPLICATIONS

2.2 APPLICATION METHODS **Tools**BaseCrete can be applied by Trowel, Roller (1" nap), Brush, Squeegee or Spray Apply BaseCrete in two (2) layers, one vertically, one horizontally. Each layer should be 1/16" thick for a total of 1/8" thickness to achieve a waterproof bond coat. The second layer can be applied

Special Applications
BaseCrete can be built up in 2" increments and feather edged COVERAGE
Coverage is approximate for one coat. Slump can be adjusted to accommodate specific job requirements by adjusting the liquid or the compound – do not add water to the mix. A. Trowel...1 gallon & 1×50 | bbag = 40-50 sqft @ 1/8"

Squeegee...5 gallons & 3x 50lb bags = 450-500 sq ft @ 1/16" Spray...5gallons&3x50lbbags=400-500sqft@1/16 2.4 SUBSTRATE PREPARATION
A. Initial inspection

Inspect job site. Determine if any pervious material used is incompatible with BaseCrete. **Preparing Site** Remove all previous material and any loose debris. Check and repair any cracks or voids with BaseCrete repair mortar. Once the site is clean and clear of any old material, loose debris, cracks

Substrate surface preparation

BASECRETE CONCRETE WATERPROOFING BOND COAT

TEMPERATURE & WEATHER FACTORS B. Site temperature Oo not apply BaseCrete to frozen substrate or in conditions hotter than 105 degrees or colder than Check local weather for temperature variations, precipitation etc that will affect your application

Mix on site using 5 gallon pails and paddle mixer. Blend product according to manufacturer's instruction on product label. Keep product out of direct sun. Allow product to false set (approximately 5 minutes) and re mix. Pot life is approximately 30 minutes depending on the temperature and humidity. Use mix ratio depending on application method.

A. Special Note

B. Clean up after mixing
Clean all tools and spills im

COLDJONTS and CRACKS Use BaseCrete Mesh to build rounded coves in corners on all cold joints. Build up with BaseCrete mix. HANDLING AND STORAGE keep BaseCrete products off the ground. Keep dry and out of direct sun/heat/co

We recommend a BaseCrete Representative attend initial application

IMPACT STRENGTH 19 lbs / 8.6 kg COMPRESSIVE STRENGTH 7050 psi / 48.61 MPa TENSILE STRENGTH 732 psi / 5.05 MPa FLEXURAL STRENGTH 2380 psi / 16.41 MPa

ADHESIVE STRENGTH Concrete: 1372 psi/9.46 MPa Steel: 1144 psi/7.89 MPa SHEAR BOND ADHESION 720 psi / 4.96 MPa ASTME96-Vaportransmission ASTMC321 – Bond Strength ASTMC672 – Freeze-Thaw ASTM d4541.02 - Pull Off Test

info@BaseCreteUSA.com

BASECRETE SPECIFICATION GUIDE SCALE: NTS MANUF. SPECS.

> POOL FLOOR -PERFORATED PIPE -UNDERDRAIN SYSTEM SITE DEPENDING ZONE OF CLEAN GRANULAR -DRAINAGE FILL MATERIAL BELOW POOL FLOOR SLAB OVER RECONDITIONED NATIVE SOIL. INSTALL POOL UNDERDRAIN SYSTEM WITH THE CLEAN GRANULAR DRAINAGE FILL MATERIAL

INSTALL GEOTEXTILE FABRIC BETWEEN THE CLEAN -GRANULAR DRAINAGE FILL MATERIAL AND THE RECONDITIONED SOILS BELOW THE DRAINAGE FILL

TYPICAL UNDERDRAIN DETAIL SCALE: 1" = 1'-0"

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FEBRUARY 23, 2021 POOL DETAILS

W104

POOL PLASTEER/MARKER DETAIL

-1'-02"-+72"-+6"-

SKIMMER PLAN

FOR WATER DEPTHS GREATER THEN 1'-7"

─I'**-**2능"-

SKIMMER COVER

(NOTE: ALL

2" SKIMMER

RETURN LINE

DIMENSIONS ARE TO FINISH)

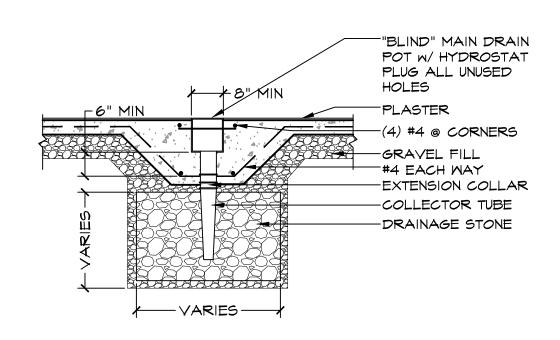
POOL

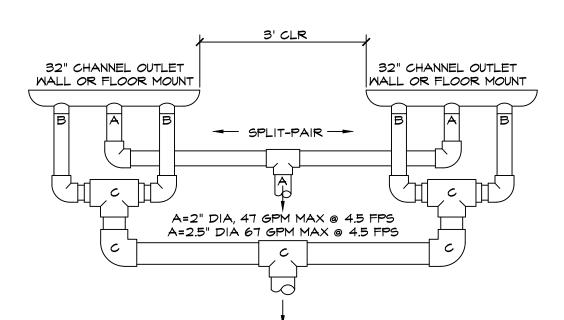
1'-7"

EQUILIZER

EQUILIZER

FITTING





C=2" DIA, 47 GPM MAX @ 4.5 FPS, B=2" DIA

C=3" DIA, IO4 GPM MAX @ 4.5 FPS, B=2.5" DIA

C=4" DIA, I34 GPM MAX @ 3.4 FPS, B=2.5" DIA

SCALE: NTS

C=2.5" DIA, 67 GPM MAX @ 4.5 FPS, B=2" DIA OR 2.5" DIA

CHANNEL OUTLET CONFIGURATION

SECTION

SUMP COVER (FILLED W/

SUPERFLOW 360 DRAIN BY

SUPERFLOW/OPENFLOW 360 PEBBLE TOP DRAIN DESIGN

OpenFlow 360 (WITHOUT the grate attached) is rated for a maximum flo

While system flow rates will vary with pump size and the Total Head Loss for a given system, virtually an

make sure it is not possible to exceed the maximum flow rates listed above

POOL FINISH)

PARAMOUNT - POOL FINISH

BOND BEAM

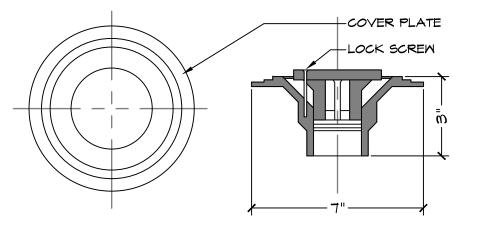
VALVE PORT

HYDROSTATIC RELIEF

TO 3" REDUCER, MIN 3"

- 4" TO 4" COUPLER OR 4"

Components and Hardware



USE OF THIS FITTING AS A SUCTION OUTLET IS HAZARDOUS. RISK OF HAIR OR BODY ENTRAPMENT, DROWNING OR DISEMBOWELMENT. DO NOT USE COVER ON ANY SUCTION OR OUTLET FITTING. USE ONLY AS AN EXACT REPLACEMENT COVER ON A FLOOR INLET FITTING.

Install sump in pool/spa floor. See detailed

. Fill Sump Cover with the same pool/spa finis

important that finish is completely level an

center of sump and the eight vinyl dots covering the eight screw holes.
4. For SuperFlow 360 WITH GRATE: attach Grate

Sump Cover to Sump with the (8) 2-inch screws

Sump Cover to Sump with the (8) 1.5-inch screws

of three feet.

bow or sink.

The lift anchor centerline must be no less than 6", but no greater than 22" from the pool/spa wall (or any feature that sticks out past the pool/spa wall, such as a coping). The lift is installed in a

b. Locate a bonding source to bond (ground) the anchor. The steel rebar-bonding grid of

c. Secure anchor in place at the proper height – anchor may be cemented in place. Set the anchor so that the finished top is 1/8" to 1/4" below finished deck level - allowing for

d. Use the carpenter's level to level the anchor making sure the lift mast will be vertically.

e. Place tape over the anchor hole before pouring concrete deck - not allowing concrete to

mast be vertically straight to ensure ease of rotation when the lift is fully loaded.

straight up and down (perpendicular to the deck) in all directions. It is important that the

the pool deck is the best choice for bonding the anchor. Attach a No. 8 solid copper wire

(NEC Section 680-22) from the bonding bolt on the base of the anchor to the bonding

a. Place the anchor in the desired location following above guidelines.

anchor cap to be put in place when the lift is not in use.

Allow the concrete to cure for at least 7-days before installing and using the lift.

ised on a common suction line, they must be separated by a minimur

When filling sump cover, make sure it is completely level and does n

Drain covers are not to be placed on seating areas or backrests. This

Please use appropriate tools for installation (Phillips screwdriver)

Please consult your standard head-loss curve to assist with installation

The head loss is dependent upon pipe length, pipe size, pump, distance

48 min

Pool finish should never exceed top of sump.

Replace covers and screws within five installed years

product can be used on floor only.

does NOT bow up or sink in.

NOTICE

Read all instructions before attempting to assemble or install the lift.

Γο be compliant with ADA guidelines, the lift must be

installed in a location that is clear from obstacles and

other hazards. Clear deck space is defined by the figure

Fo comply with ADA guidelines the lift must be installed

pool is deeper than 48" this requirement does not apply.

where the water depth does not exceed 48". If the entire

to the right. This rectangle is 48" long (along the pool wall)

Installation Overview

Anchor Location/Installation

New Construction Anchor Installation

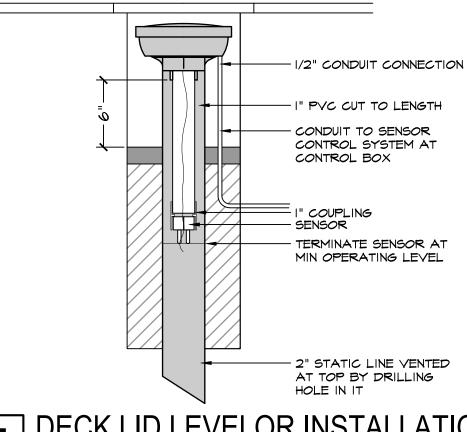
enter anchor opening.

f. Pour concrete deck and finish.

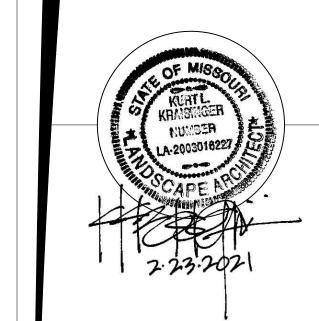
single 2.375" I.D. anchor.

Clear Deck Space:

Pool/Spa Depth:



DECK LID LEVELOR INSTALLATION SCALE: NTS



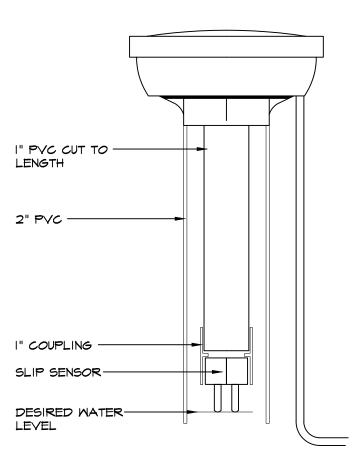
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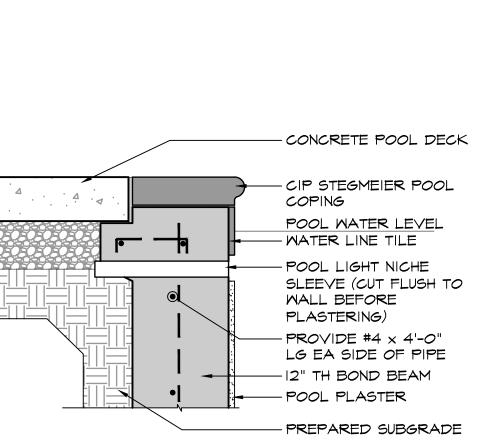
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- AUTO MAKE-UP FIXTURE

I" OVERFLOW LINE -3/4" WATERSERVICE LINE - 2" EQUALIZER LINE - RX WATERSTOP - EQUALIZER FITTING



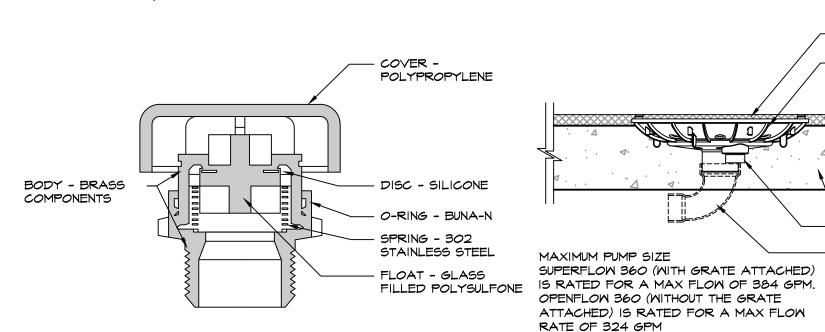
SLIP SENSOR DETAIL SCALE: NTS **SECTION**

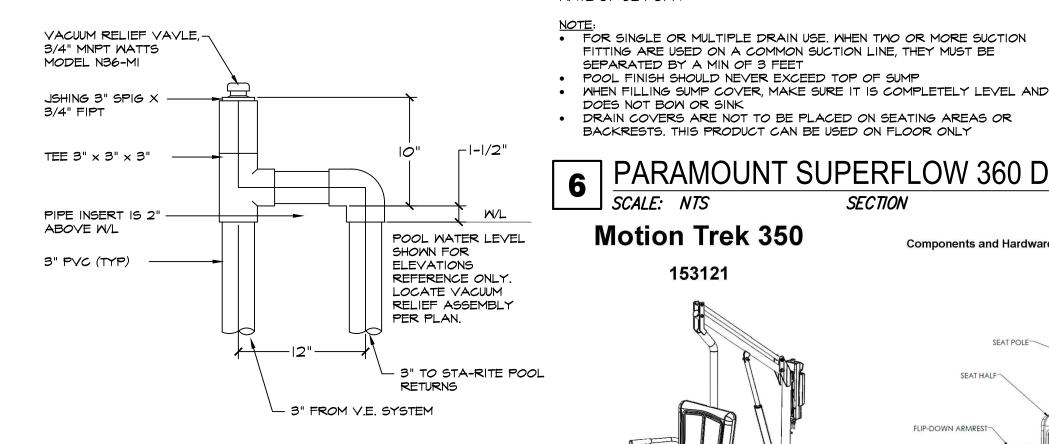


16 TYPICAL POOL LIGHTS

SCALE: 1'' = 1'-0''SECTION

MAIN DRAIN w/ HYDROSTAT SCALE: 1/2" = 1'-0"





I. LOCATE VACUUM RELIEF ASSEMBLTY PER PLAN. IF FIELD CONDITIONS PREVENT CRITICAL ELEVATIONS TO BE ACHIEVED AT THE DESIRED LOCATION, NOTIFY THE DESIGNER IMMEDIATELY. DO NOT INSTALL VALVE

APPLICATIONS. IT IS ADVISABLE TO KEEP A SPARE VACUUM RELIEF 3. VACUUM RELIEF VALVE BY WATTS INDUSTRIES, INC. (WWW.WATTS.COM) OR APPROVED EQUAL

SECTION

2. THE TYPE SS SPRING MAY PREMATURELY FAIL IN SALTWATER

YACUUM BREAKER

I-I/2" S.S. HANDRAIL-

BRONZE ANCHORS W/ -

S.S. ESCUTCHEONS. SET

ANCHORS W/ TEMPLATE

CONCRETE POOL DECKY

BONDING WIRE ~ BOND TO >

BONDING LOOP. (ALL RAILS

HANDRAIL DIMENSIONS MAY

VARY DEPENDING ON FINAL

AND ALL ANCHORS)

RAIL SELECTION

3/4" DIA CONDUITH

FROM ANCHOR

INTO CRUSHED

ROCK FOR

DRAINAGE



SPECTRUM

SEPARATED BY A MIN OF 3 FEET

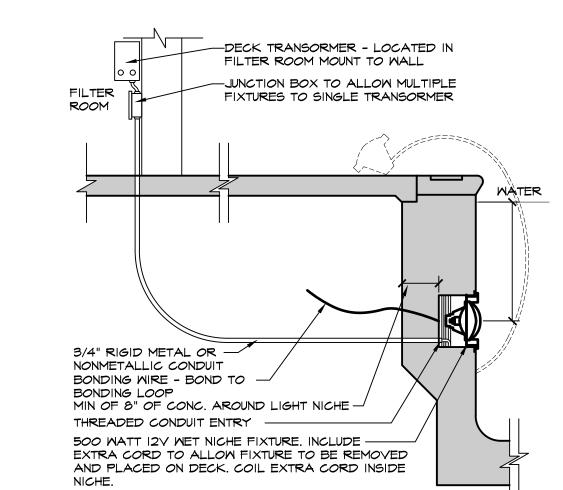
DOES NOT BOW OR SINK

FITTING ARE USED ON A COMMON SUCTION LINE, THEY MUST BE

BACKRESTS. THIS PRODUCT CAN BE USED ON FLOOR ONLY

/8-2 1/4" HEX SCREW GREASE FITTING 5/16 LOCK WASHER SOME HARDWARE OMITTED FOR CLARITY

A PAYCORE Company 7100 Spectrum Lane ~ Missoula MT 59808 HANDSET, ANCHOR, AND CHARGING ACCESSORIES NOT SHOW ADA CHAIR LIFT BY SPECTRUM AQUATICS SCALE: N.T.S. **SECTION**



I-I/2" S.S. HANDRAIL CONCRETE POOL DECK+ BRONZE ANCHORS W/ S.S. ESCUTCHEONS. SET ANCHORS W/ TEMPLATE 3/4" DIA CONDUIT-FROM ANCHOR INTO CRUSHED ROCK FOR DRAINAGE BONDING WIRE ~ BOND TO > BONDING LOOP. (ALL RAILS AND ALL ANCHORS) POOL BOND BEAM -

MATER LEVEL ENTRY REEF HANDRAIL DIMENSIONS MAY VARY DEPENDING ON FINAL RAIL SELECTION

SCALE: 3/4" = 1'-0"

15 UNDERWATER POOL LIGHT SCALE: 3/4" = 1'-0"

8 POOL SKIMMER DETAIL SECTION 48" MIN

SKIMMER SECTION

FOR WATER DEPTHS LESS THEN 1'-7"

MATER LEVEL 4" MIN TO TOP OF LENS NICHE SLEEVE RIGID I" (CUT FLUSH TO CONDUIT WALL BEFORE PLASTERING) NICHE SLEEVE: 2"-PVC PIPE FOR GUNITE NICHE ONLY PLASTER FINISH

12 LIGHT PLACEMENT DETAIL SECTION

13 ENTRY REEF HANDRAIL OPTION #1

LEVEL

ENTRY REEF

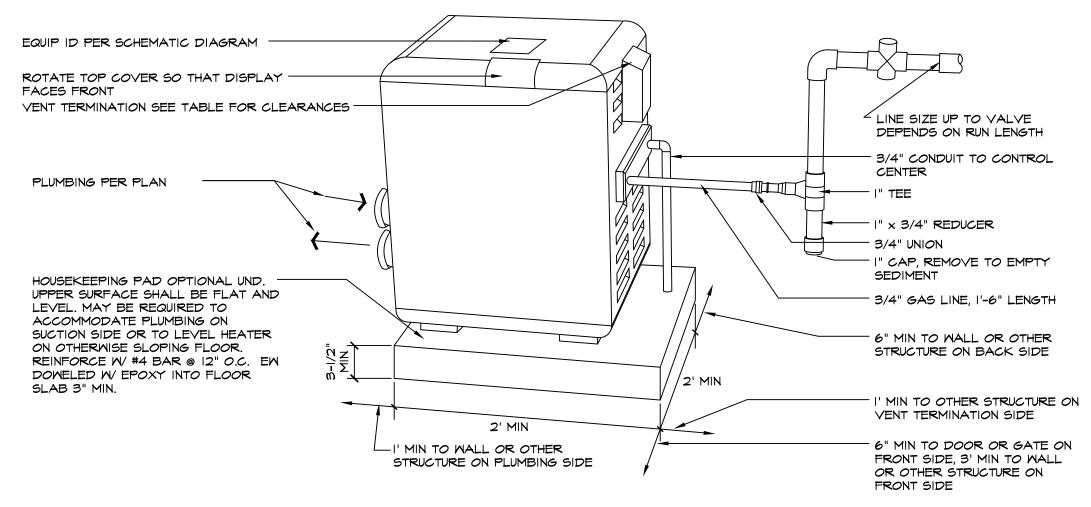
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FEBRUARY 23, 2021 POOL DETAILS

DETAIL NOTES:

- . INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- 2. INSTALL BONDING PER NEC 680.26
- 3. INSTALL PER LOCAL CODES. THIS MAY REQUIRE THE ADDITION OF A PRESSURE RELIEF VALVE NOT TO EXCEED 50 PSI

VENT TERMINATION CL	EARANCES	TYPE	"B" DOUBLE-WA	LL VENT W/ TYPE	"B" DOUBLE-WA	ALL CONNECTOR	N FEET
DESCRIPTION	MIN CLEARANCE DIM	VENT SIZE	MODEL 175	MODEL 200	MODEL 250	MODEL 300 (HEIGHT MIN/MAX	MODEL 350
VERTICAL THROUGH ROOF	2' (600MM) ABOVE ALL STRUCTURES WITHIN 10' (3,000MM)	6"	6' / 100'	6' / 100'	18' / 100'	30' / 100'	NOT REC.
VERTICAL TO UNDERSIDE OF ROOF	3' (900MM)	7"	6' / 100'	6' / 100'	8' / 100'	10' / 100'	15' / 100'
OR DECK OVERHANG		8"	6' / 100'	6' / 100'	6' / 100'	6' / 100'	8' / 100'
CLEARANCE FROM WALLS	6" (150MM)	9" \$ 10"	6' / 50'	6' / 50'	6' / 50'	6' / 100'	8' / 100'
CLEARANCE FROM ANY OPENING INTO A BUILDING	4' (1,200MM) TYPE "B" DOUBLE-WALL VENT W/ SINGLE WALL CONNECTOR IN FEET					•	
CLEARANCE FROM ELECTRIC METERS,	4' (1200MM)	VENT SIZE	MODEL 175 HEIGHT MIN/MAX	MODEL 200 HEIGHT MIN/MAX	MODEL 250 HEIGHT MIN/MAX	MODEL 300 HEIGHT MIN/MAX	MODEL 350 HEIGHT MIN/MA
PANELS, GAS METERS, REGULATORS, AND RELIEF EQUIPMENT		6"	6' / 15'	6' / 15'	6' / 15'	NOT REC.	NOT REC.
CLEARANCE FROM PROPERTY LINE	1'-6" (450MM)	7"	6' / 8'	6' / 8'	6' / 8'	10' / 20'	15' / 50'
	7 1 (7 1 n n)	8"	NOT REC.	NOT REC.	NOT REC.	6' / 20'	8' / 20'
CLEARANCE FROM A/C OR HEAT PUMP	3' (900MM)	9"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	6' / 6'
CLEARANCE ABOVE FINISHED GRADE AND NORMAL SNOW LEVEL	1' (300MM)	10"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	NOT REC.



	POLYETHY	LENE (PE) GAS L	INE BURIAL	DEPT	THS	1	
LOCATION					NORMAL SO	IL CONS	OLIDATED ROCK
	SERVICE LINES: F	E LINES: PRIVATE PROPERTY			18"		18"
SERVICE LINES: UNDER STREETS, ROADS, AND DRIVEWAYS				YS	24"		18"
TRANS	MISSION LINES AND	MAINS CLASS I	LOCATION		30"		8"
TRAN	SMISSION LINES AN		2, 3, AND				
4 LOCATION TRANSMISSION LINES AND MAINS: DRAINAGE DITCHES					36"		24"
	MISSION LINES AND PUBLIC ROADS ANI			,	36"		24"
TRANSMISSION LINES AND MAINS: NAVIGABLE RIVERS STREAMS OR HARBORS (MEASURED TOP OF PIPE TO NATURAL BOTTOM)				•	48"		24"
	DETAIL NO	OTES:			PETAIL NOTES	·:	
7. A HYDROSTATIC PRESSURE TEST SHALL HOLD MIN 20 PSI WITH ZERO DROP IN 72 HOURS.				D25	513-05D STANDA	E SHALL CONFOR RD SPECIFICATION TUBING, AND FIT	N FOR THERMOPLAST
CHART	2406/2708 MOPE Y ER PLASTICS. PANE MAX OPERAT &F		5 30 PSI				
	POTH PER	NATIVE SOIL COMPACTED FILL		4. G ELEC	AS PLUMBING SH CTRICALLY CONT	RE TERMINATING A	
	BURIAL DEPTH I	- WARNING TAP		1	VC AND COPPER MBING.	SHALL NOT BE U	SED FOR GAS
	BE:	TRACKER WIFE BEDDING DDING DIMENSION SIDES OFF PIPE R TALBE, BELOW	NS E	1		TIC-TO-METAL TRA	ANSITION GITTINGS DE.
	POLYETH	YLENE (PE) PIPE	SPECIFICA	TIONS	5		
NOMINAL SIZE	OUTSIDE DIA (IPS STD)	MIN WALL THICHNESS	DIA RAT (DR)	10	MIN BEND RADIUS	NET GAS MAX PRESS	MIN BEDDING DIMENSIONS
1/2"	0.830"	0.091"	9.3		18"	81 PSI	2"
3/4"	1.060"	0.096"	II		21"	68 PSI	2"
"	1.315"	0.120"	ll ll		27"	68 PSI	2"
- /4"	1.360"	0.151"	II		34"	68 PSI	2"
I-I/2"	1.900"	0.173"	ii		38"	68 PSI	2"
2"	2.375"	0.216"	ii ii		48"	68 PSI	2"
<u>2</u> 3"	3.500"	0.304"	11.5		84"	64 PSI	3"
<u> </u>	4.500"	0.333"	13.5		108"	54 PSI	4"
_	T.500	0.222	10.0		100	J T 1 J1	

PART NO.
7770-0076
TT00-F0FTF

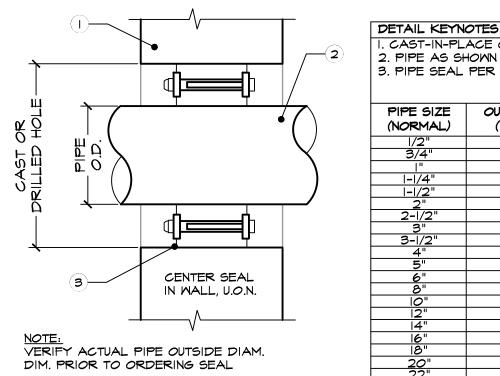
I. SEE TABLE 10, TO DETERMINE ALLOWABLE VENT SIZES FOR YOUR HEATER. NOTICE: TABLE 10 IS FOR INSTALLATIONS IN WHICH THE TOTAL LATERAL VENT LENGTH (THAT IS HORIZONTAL DISTANCE FROM THE FLUE COLLAR TO THE COLLAR TO THE MAIN VERTICAL PORTION OF THE VENT) IS LESS THAN 1/2 THE TOTAL VENT HEIGHT (THE VERTICAL DISTNACE FROM THE FLUE COLLAR TO THE VENT TERMINATION) AND WHICH HAVE THREE OR LESS ELBOWS IN THE SYSTEM. FOR VENTING SYSTEMS WHICH DO NOT MEET THESE CONDITIONS, CONSULT THE NATIONAL FUEL GAS CODE, ANSI Z223.1 (U.S.).

READ "VERTICAL VENTING - NEGATIVE PRESSURE" BEFORE USING THIS TABLE.

TABLE 10 - PERMITTED MINIMUM AND MAXIMUM VENT HEIGHTS BY SIZE AND HEATER MODEL

VENT SIZE	MODEL 175 HEIGHT MIN./MAX.	MODEL 200 HEIGHT MIN./MAX.	MODEL 250 HEIGHT MIN./MAX.	MODEL 300 HEIGHT MIN./MAX.	MODEL 400 HEIGHT MIN./MAX.
6"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	18' (5.5)/100' (30.5)	30' (9)/100' (30.5)	NOT REC
7"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	8' (2.4)/100' (30.5)	10' (3)/100' (30.5)	15' (4.6)/100' (30.5)
ව"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (I.8)/IOO' (30.5)	8' (2.4)/100' (30.5)
I" AND 10"	6' (1.8)/50' (15.3)	6' (1.8)/50' (15.3)	6' (1.8)/50' (15.3)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)
	MODEL 175	PE "B" DOUBLE-WALL VENT M MODEL 200	NITH SINGLE-WALL CONNECTOR MODEL 250	IN FEET (METERS) MODEL 300	MODEL 400
/ENT SIZE	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.
/ENT SIZE					
	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.	HEIGHT MIN./MAX.
6"	HEIGHT MIN./MAX. 6' (1.8)/15' (4.6)	HEIGHT MIN./MAX. 6' (1.8)/15' (4.6)	HEIGHT MIN./MAX. 6' (1.5)/15' (4.6)	HEIGHT MIN.MAX. NOT REC	HEIGHT MIN./MAX.
7"	HEIGHT MIN./MAX. 6' (I.8)/I5' (4.6) 6' (I.8)/8' (2.4)	HEIGHT MIN, MAX. 6' (1.8)/15' (4.6) 6' (1.8)/8' (2.4)	HEIGHT MIN./MAX. 6' (1.5)/15' (4.6) 6' (2.4)/8' (2.4)	HEIGHT MIN./MAX. NOT REC IO' (3)/20' (6)	HEIGHT MIN./MAX. NOT REC 15' (4.6)/50' (15.3)

PIPE/WALL SEAL (LINK SEAL)



VERIFY ACTUAL PIPE OUTSIDE DIAM. DIM. PRIOR TO ORDERING SEAL
PIPE AND EQUIPMENT SUPPORT: -FLOOR PENETRATIONS -WALL PENETRATIONS -PIPE SUPPORTS -NOISE AND VIBRATION SUPPRESSION

ETAIL KEYN		MASONRY WALL AS DETAILED E	I SEMLEDE	
			LSENHERE	
— —		AS DETAILED ELSEWHERE		
. PIPE SEAL	PER "LINK-SEAL" T	O SIZE SHOWN ON TABLE - INSTA	LL PER MFR. REQUI	REMENTS
PIPE SIZE	OUTSIDE DIA	CAST OR DRILLED CONC.	LINK SEAL	NO. OF LINKS
(NORMAL)	(IPS O.D.)	HOLE INSIDE DIAM. (I.D.)	PRODUCT #	PER SEAL
1/2"	0.810	2.0	LS-200	4
3/4"	1.050	2.5	LS-275	5
"	1.315	3.0	LS-300	4
1-1/4"	1.660	3.0	LS-275	7
I-I/2"	1.900"	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2-1/2"	2.875	4.0	LS-200	9
3"	3.500	5.0	LS-300	8
3-1/2"	4.000	6.0	LS-325	5
4"	4.500	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	16.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23 <i>.0</i>	LS-500	16
20"	20.00	25. <i>0</i>	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31 <i>.0</i>	LS-500	23
28"	28.00	33. <i>0</i>	LS-500	24
30"	30.00	35. <i>O</i>	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

MAX FLOW RATES (PER OUTLET) MOUNTING POSITIONS (xxx=color suffix)						
MODEL	32CDLTXXX (AND 32CDLTFRXXX, 32CDLTVXXX)	32CDAVxxx (AND 32CDAVFRxxx, 32CDAVVxxx, 32CDAVACxxx)	32PDxxx (MIN. 2" PIPE)	32CDBTxxx, 32CDBTFRxxx	32CDPHxxx (AND 32CDPHFRxxx, 32CDPHVxxx, 32CDPHT5xxx) (MIN 2" PIPE)	
FLOOR	316 GPM @ 3.9 FPS	196 GPM @ 1.3 FPS	236 GPM @ 3.4 FPS	120 GPM @ 1.2 FPS	120 GPM @ 1.2 FPS	
MALL	208 GPM @ 2.6 FPS	192 GPM @ 1.2 FPS	136 GPM @ 1.9 FPS	N.A.	N.A.	

ACCEPTABLE PIPE SIZE FOR MAXIMUM RECOMMENDED SYSTEM FLOW RATE PER APSP-7 (GFEET/SECOND IN THE BRANCH LINE)					
PIPE SIZE	ا <u>اً</u> "	2"	2½"	3"	
FLOW RATE IN GPM	45	80	110	160	

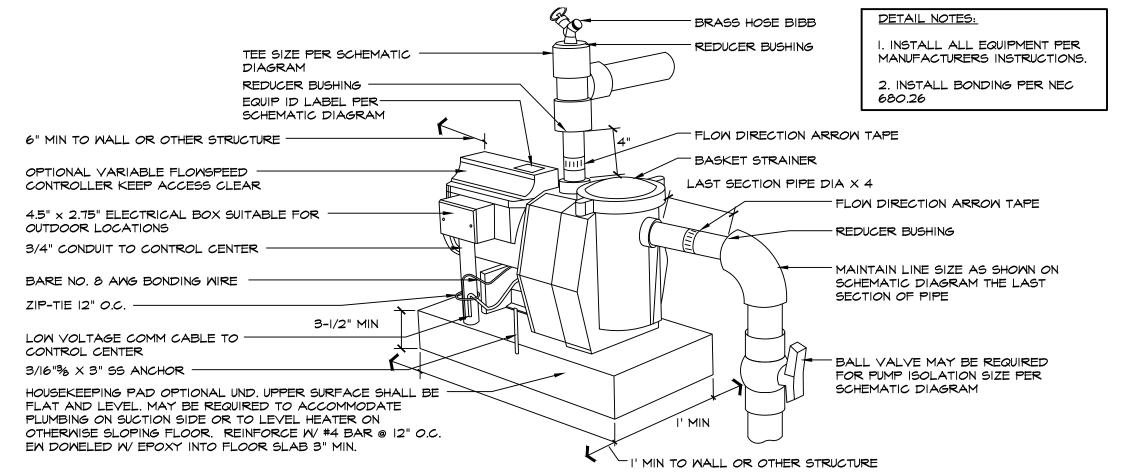
WATER VELOCITY AND FLOW RATES

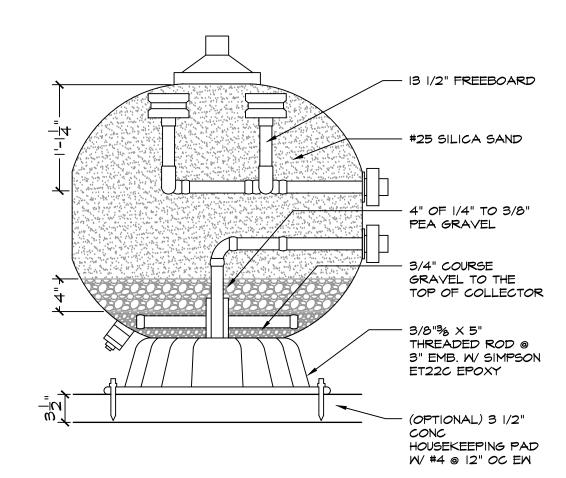
THE MAX WATER VELOCITY THROUGH DRAIN COVERS IS LIMITED BY LOCAL REGULATIONS, FOR EXAMPLE SOME STATE HEALTH DEPARTMENTS LIMIT THE VELOCITY THROUGH PUBLIC DRAIN COVERS TO 1.5" PER SECOND. THIS VELOCITY IS LOWER THATN THE FLOW RATING PROVIDED BY THE ANSI/APSP-16 2011 CERTIFICATION, THEREFORE THE LOCAL LIMIT APPLIES NAD MUST BE FOLLOWED. NEVER EXCEED THE FLOW RATING LISTED ON THE COVER EVEN IF THE LOCAL CODE DOES NOT PROVIDE A VELOCITY LIMIT.

PIPING-GENERAL

FOR NEW INSTALLATIONS, THE PIPING BETWEEN DRAINS MUST BE SIZED TO LIMIT THE VELOCITY TO 6 FEET PER SECOND. THIS LIMIT APPLIES TO THE BRANCH PIPING AND ALL FITTINGS BETWEEN MULTIPLE OUTLETS AND THE TREE LEADING BACK TO THE PUMP. IF CODE REQUIRES A LOWER OF THE PUMP OF THE CODE SEET THE CHAPT AROUTE FOR INFORMATION ON PIPE SIZE FLOW RATINGS AT 6 FEET PER SECOND.

GENERAL PIPING NOTES SCALE: NTS ILLUSTRATIVE VIEW





POOL FILTER INSTALLATION POOL FI SCALE: NTS





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6 POLYETHELINE GAS PIPING SCALE: NTS ILLUSTRATIVE VIEW

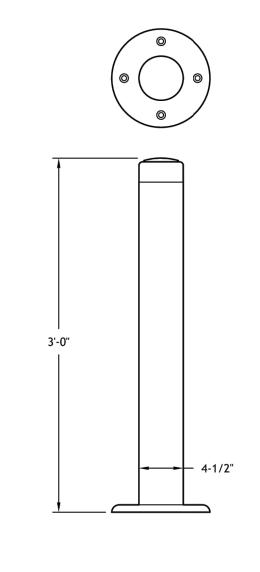
POOL PUMP INSTALLATION SCALE: NTS ILLUSTRATIVE VIEW

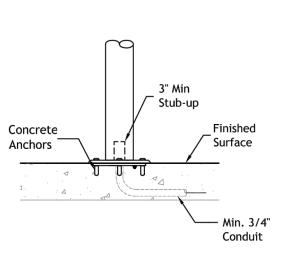
UNDER-BRELLA F BY WATER ODYSEEY SCALE: NTS Specific CUT. SHEET

Shaft: 4" type 304 stainless steel pipe. Base Plate: Type 304 stainless steel. Anchors: (4) stainless steel concrete anchors, supplied. Finish: Textured elastomeric urethane with a UV and chlorine resistant sealer coat. Color: Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple. **Fasteners:** Tamper-resistant type 18/8 stainless steel. **Activator Housing:** Machined from solid PVC stock. Activator Housing Color: Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple. Activator Cord: 150' of 18/3 type SJTOW submersible cable pre-wired to activator button, supplied.

Model Number: W009

3





Anchor Base

Touch & Go™

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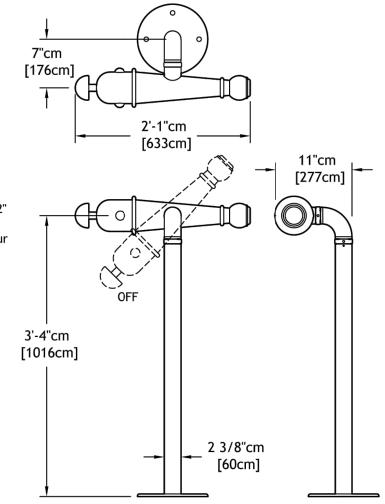
TOUCH & GO SWITCH BY WATER ODYSEEY SCALE: NTS CUT SHEET



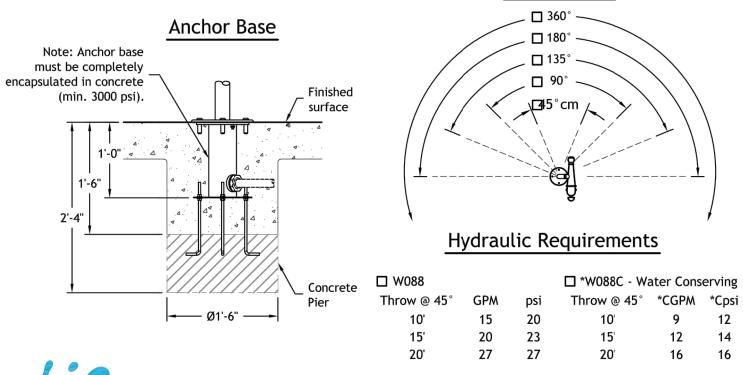
Model Number: W088 Interactive Water Effect: Shall be twin directable highly aerated sprays of water. Shooter shall turn off automatically when not in use. **Shaft:** Straight 2" type 304 stainless steel pipe with machined type 304 base plate. Elbow: 2" type 304 stainless steel. Housing: Fabricated type 304 stainless steel. Joints: Precision machined Delrin® flow control joints adjustable for 45°-360° directional flow. Anchor Base: Type 304 stainless steel machined to mate with shaft base plate includes grounding connection and 2" FPT inlet. Supplied with (4) 3/8" x 12" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.

Gasket: 70 durometer EPDM o-ring. Fasteners: Tamper-resistant 18/8 stainless steel. Finish: Textured elastomeric urethane with a UV and chlorine resistant sealer coat. Nozzles: Machined brass foam nozzles.

Water Conserving Version Model Number: W088C Water Conserving Nozzle: Machined brass multi stream nozzle.



Splash Zone



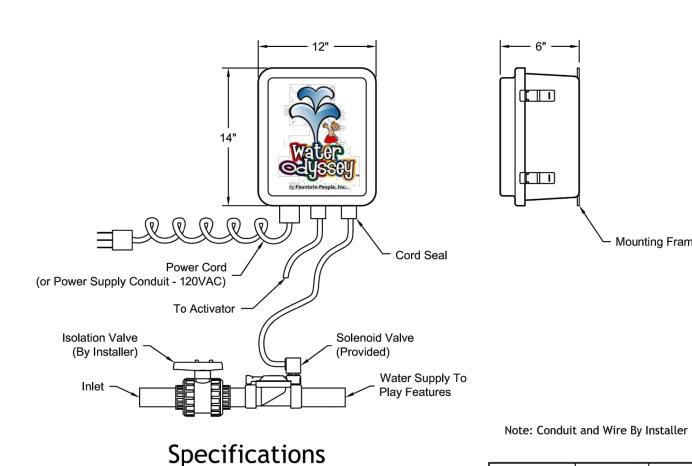


Gravity Cannon™

Fountain People, Inc. ~ PO Box 807 ~ 4600 Highway 123 ~ San Marcos, Texas 78667-0807

GRAVITY CANNON BY WATER ODYSEEY

CUT SHEET



Model No: CTP-100-XX (See Chart).
Housing: NEMA 4X with lockable hasp.
Input Voltage: 120VAC/60 Hertz, 20 Amps.
Wired Activator Input: 12VDC. Maximum qty 2.
Output Voltage: 12VDC/60 Hertz, 5 Amps continuous. (To Soler
Valve)

Power Cord: 6 foot, 16-3 type SJT with grounded plug. Cord Seal: PVC compression seal fittings with neoprene gland for 16-2 solenoid valve cables. **Time Clock:** Integral, electronic, 7 day, 24 hour. Time Delay Relay: Electronic, 24 hour adjustment. **TDR Adjustment:** 1 second up to 24 hour with fine adjustment. Safety: ETL and Underwriters' Laboratories Listed.

Solenoid Valves: Die cast bronze with stainless steel hardware, DIN

connector with 15' cord, and 12VDC UL Recognized solenoid. 1. Conduit and wire by installer. 2. All field wiring to be compliant with NEC and local codes. Field output wire to be stranded copper, minimum rated 60°C.

Valve Size

1"

1-1/2" 50

2" 100

Model Number

CTP-100-10

CTP-100-15

CTP-100-20

Max Flow

25



Single Timer Controller

For wired activators Fountain People, Inc. - PO Box 807 - 4600 Highway 123 - San Marcos, Texas 78667-0807 Phone (512) 392-1155 - Fax (512) 392-1154 - www.waterodyssey.com





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