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# SUMMIT VIEW FARMS

### POOL CONSTRUCTION DOCUMENTS LEE'S SUMMIT, MISSOURI

### **CONSTRUCTION DOCUMENTS**

FEBRUARY 23, 2021 PREPARED BY:

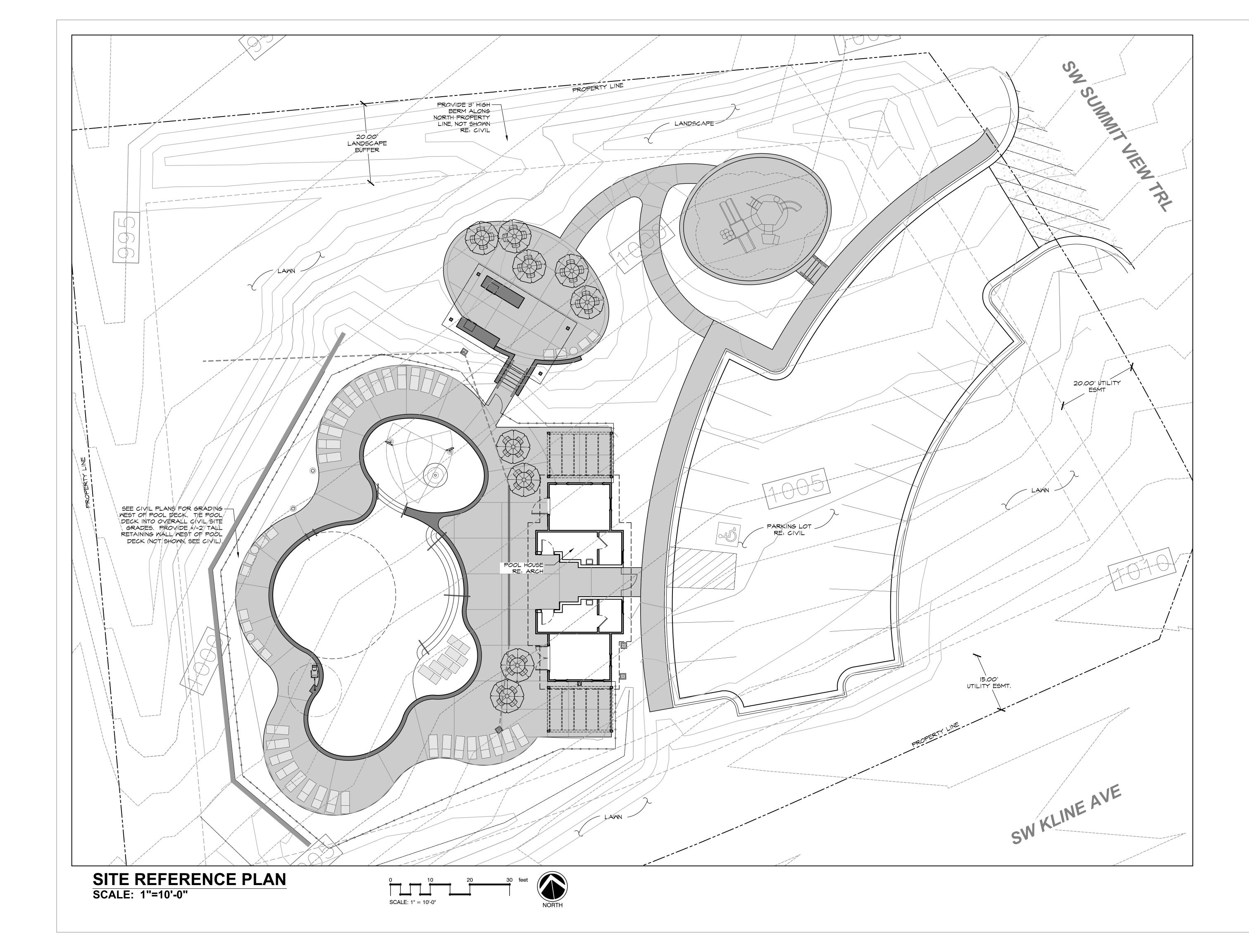


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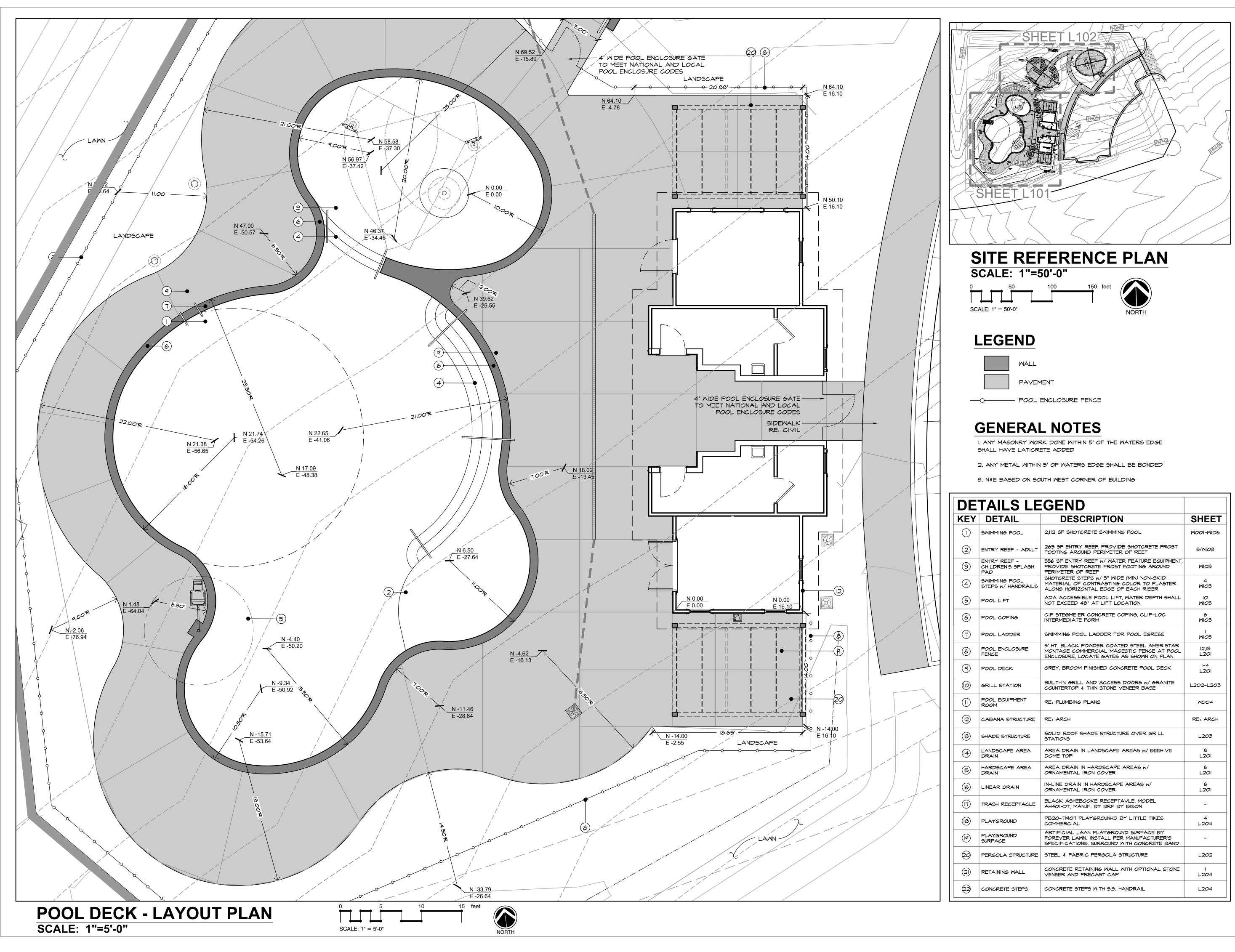
SHE
L100
L101
L102
L103
L104
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L201
L202
L203
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L302
W001
W002
W003
W004

## SHEET INDEX

SITE REFERENCE PLAN LAYOUT PLAN - POOL DECK LAYOUT PLAN - GRILL PATIO GRADING PLAN - POOL DECK GRADING PLAN - GRILL PATIO SCORE JOINT PLAN SITE DETAILS SITE DETAILS SITE DETAILS LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE NOTES AND DETAILS POOL LAYOUT PLAN POOL CONTOURING PLAN POOL ELECTRICAL PLAN POOL PLUMBING PLAN W101 W102 W103 W104 W105 W106 W107 POOL STRUCTURAL NOTES TYPICAL POOL STRUCTURAL DETAILS POOL DETAILS POOL DETAILS POOL DETAILS POOL DETAILS







DETAILS LEGEND			
KEY	DETAIL	DESCRIPTION	SHEET
	SWIMMING POOL	2,112 SF SHOTCRETE SWIMMING POOL	MOOI-MIO6
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	MIO3
4	SWIMMING POOL STEPS W/ HANDRAILS	SHOTCRETE STEPS W/ 3" WIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER ALONG HORIZONTAL EDGE OF EACH RISER	4 MI03
5	POOL LIFT	ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL NOT EXCEED 48" AT LIFT LOCATION	10 M105
6	POOL COPING	CIP STEGMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM	6 MIO3
7	POOL LADDER	SWIMMING POOL LADDER FOR POOL EGRESS	1 MI <i>O</i> 5
⊗	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
( <b>9</b> )	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
(12)	CABANA STRUCTURE	RE: ARCH	RE: ARCH
B	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 M/ ORNAMENTAL IRON COVER	6 L201
(6)	LINEAR DRAIN	IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER	6 L201
(7)	TRASH RECEPTACLE	BLACK ASHEBOOKE RECEPTAVLE, MODEL AH40I-DT, MANUF. BY BRP BY BISON	-
B	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
2)	RETAINING WALL	CONCRETE RETAINING WALL WITH OPTIONAL STONE VENEER AND PRECAST CAP	 L204
22	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204



RELEASED FOR CONSTRUCTION

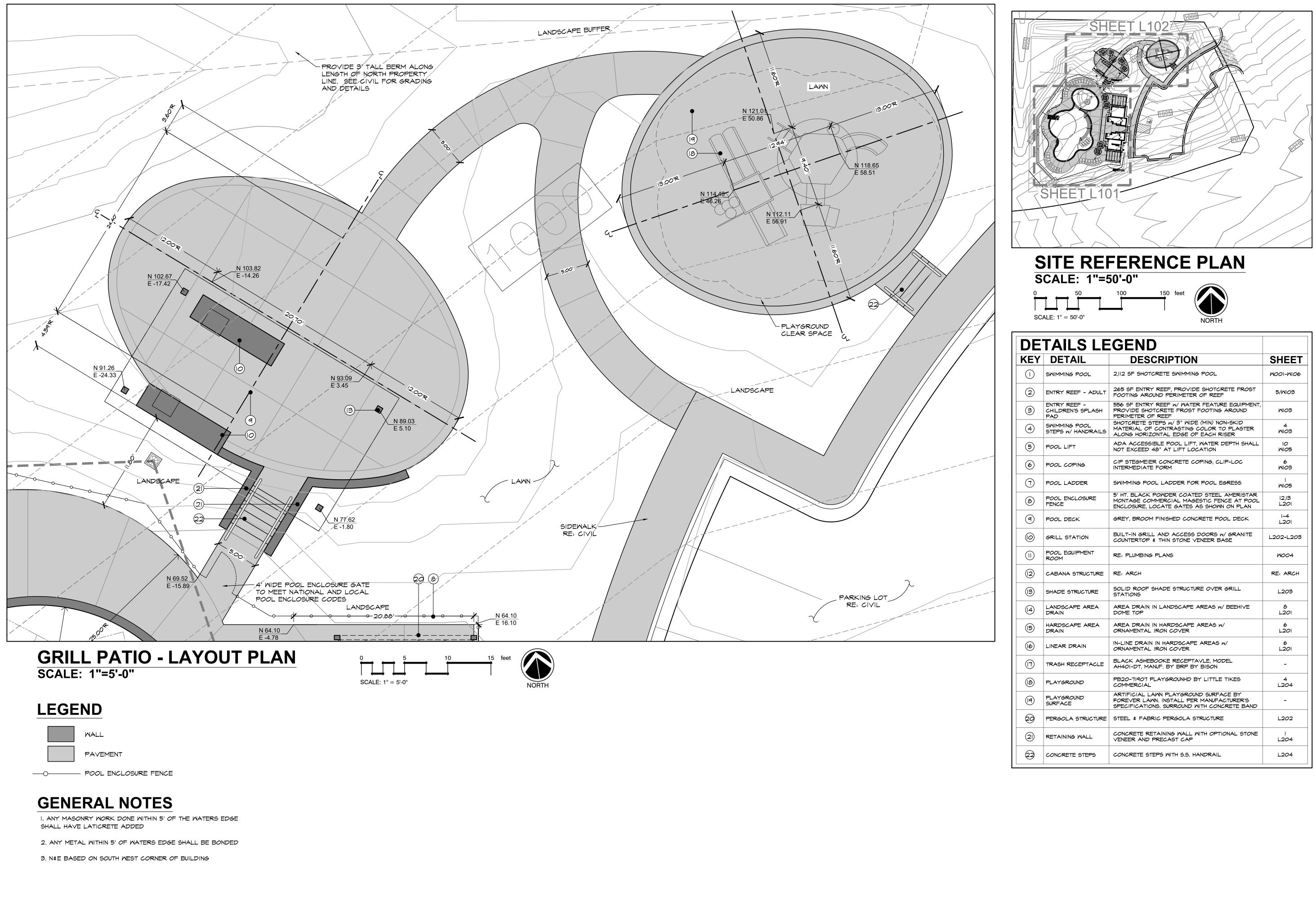
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**REVISION**:

DECEMBER 2, 2021

POOL DECK -LAYOUT PLAN

L101



KEY     DETAIL     DESCRIPTION     SHEET       ①     SWIMMING POOL     2/12 SF SHOTCRETE SWIMMING POOL     WOOL-MIGE       ②     ENTRY REEF - ADULT     265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND FERINETRE OF REEF     5///000       ③     PREVENTS SELASH PROVIDE SHOTCRETE FROST FOOTING AROUND FERINETRE OF REEF     5///000     5///000       ④     SWIMMING POOL STEPS W/ HANDRAILS     ADD ACCESSIDE FOOTING AROUND FERINETRE OF REEF     4///000       ④     SWIMMING POOL STEPS W/ HANDRAILS     ADD ACCESSIDE FOOTING AROUND HOTCRETE STEPS W/ 3' NIDE MIN NON-SKID MITERMEDIATE FORM     4///000       ⑤     POOL LIFT     ADD ACCESSIDE FOOT OL LIFT, ANTER DEPTH SHALL ID ONT EXCEED 49' AT LIFT LOCATION     4///000       ⑥     POOL COPING     CIP STESMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM     6///000       ⑦     POOL LADDER     SHIT, BLACK PONDER FOR POOL ERRESS     1///000       ⑦     POOL ENCLOSURE     SHTEL LACK PONDER COATED STELL AMERISTAR MONTAGE COMMERCIAL MAD ACCESS DOORS M/ GRANITE COUNTERTOF # THIN STOLE VENEER DASE     1///000       10     GRILL STATION     BUILT-IN GRILL AND ACCESS DOORS M/ GRANITE COUNTERTOF # THIN STOLE VENEER DASE     1////000       10     GROOL EQUIPMENT REI, PRLOMENT AL RON COVER GRILL <th colspan="5">DETAILS LEGEND</th>	DETAILS LEGEND				
Q   ENTRY REEF - ADULT   265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST   5/MI03     Q   ENTRY REEF - ADULT   265 SF ENTRY REEF, AV MATER FEATURE EQUIPMENT, PAD   556 SF ENTRY REEF, AV MATER FEATURE EQUIPMENT, PAD   566 SF ENTRY REEF, AV MATER FEATURE EQUIPMENT, PAD   566 SF ENTRY REEF, AV MATER FEATURE EQUIPMENT, PAD   4003     Q   SHIMMING POOL   SHOTCRETE STEPS w/ 3' MIDE (MIN NON-SKID   4   4003     G   SHOTCRETE STEPS w/ 3' MIDE (ANIN NON-SKID   4   4003     Q   SHIMMING POOL   SHOTCRETE STEPS w/ 3' MIDE (ANIN NON-SKID   4     MATERIAL OF CONTRASTING COLOR TO PLASTER   4003   4005     G   POOL LIFT   ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL   100     G   POOL COPING   CIP STEGHEIER CONCRETE COPING, CLIP-LOC   6     MI05   SHATCRETE STEPS w/ 3' MIDE (ANIN STORE CONCRETE AVERISTAR   1201     G   POOL LADDER   SHIMMING POOL LADDER FOR POOL EGRESS   1120     G   POOL COPING   SHITE BALE ROMERCIAL MADERTO FENCE AVERISTAR   1201     G   POOL COLOSURE   SHITE BALE ROMERCIAL MADERTO FENCE AVER FROM   1201     G   POOL EQUIPMENT   REI ARCOM FINISHED CONCRETE FOOL DECK   1201     G	KEY	DETAIL	DESCRIPTION	SHEET	
(2)   ENTRY REEP - AUGLI   FOOTING AROUND PERIMETER OF REEP   SINUATER OF REEP     (3)   ENTRY REEP - CHILDRENS SPLASH   SISS OF ENTRY REEP   WATER FEATURE EQUIPMENT, PAD   MIO3     (4)   SMINMING POOL STEPS w/ HANDRAILS   SIGOTORETE STEPS w/ 3" MIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER   4 MIO3     (5)   POOL LIFT   NOT ACCESSIBLE POOL LIFT, WATER PEPTH SHALL ALONG HORIZONTAL EDGE OF EACH RISER   10 MIO5     (6)   POOL COPING   CIP STEGMEIER CONCRETE COPING, CLIP-LOC INTERREDIATE FORM   6 MIO5     (7)   POOL LADDER   SMINMING POOL INTERREDIATE FORM   10 MIO5     (8)   POOL ENCLOSURE   SHIT, BLACK FONDER COATED STEEL AMERISTAR HIO5   12 MIO5     (9)   POOL ENCLOSURE   SHIT, BLACK FONDER COATED STEEL AMERISTAR HIO5   12 MIO5     (9)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK LI201   12 MIO5     (10)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE L202-L203   12 MIO64     (11)   POOL EQUIPMENT REOM   RE: ARCH   RE: ARCH   12 MIO64     (2)   CABANA STRUCTURE   RE: ARCH   RE: ARCH   12 MIO64     (9)   GABANA STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL		SWIMMING POOL	2,112 SF SHOTCRETE SWIMMING POOL	MOOI-MIO6	
(3)   CHILDRENS SPLASH   PROVIDE SHOTCRETE FROST FOOTING AROUND   WI03     (4)   SMIMMING POOL STEPS W HANDRAILS   SHOTCRETE STEPS W JP NIDE (MIN) NON-SKID ALONG HORIZONTAL EDGE OF EACH RISER   4     (5)   POOL LIFT   NOT EXCEED 40' 3T LIFT LOCATION   HI03     (6)   POOL LIFT   NOT EXCEED 40' AT LIFT LOCATION   HI03     (7)   POOL LADDER   SHIMMING POOL LADDER FOR POOL EGRESS   I     (7)   POOL LADDER   SHIMMING POOL LADDER FOR POOL EGRESS   I     (8)   POOL ENCLOSURE   SHIMMING POOL LADDER FOR POOL EGRESS   I     (9)   POOL ENCLOSURE   SHIT ELACK POWDER COATED STELL AMERISTAR   I2,13     (9)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   I-4     (10)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W GRANITE COUNTERTOP # THIN STONE VENEER BASE   I202-L203     (11)   POOL EQUIPMENT ROOM   RE: PLUMBING PLANS   MO04     (12)   CABANA STRUCTURE   RE: ARCH   RE: ARCH     (18)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL   I.203     (11)   POOL EQUIPMENT ROOM   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE   B     (9) <td>2</td> <td>ENTRY REEF - ADULT</td> <td>265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF</td> <td>5/NI03</td>	2	ENTRY REEF - ADULT	265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	5/NI03	
(4)   SMINING FOUL   MATERIAL OF CONTRALEDS OF EACH RISER   #103     (5)   POOL LIFT   ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL   10     (6)   POOL LIFT   ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL   10     (7)   POOL COPING   CIP STEGMEIER CONCRETE COPING, CLIP-LOC   6     (7)   POOL LADDER   SWIMMING POOL LADDER FOR POOL EGRESS   1     (8)   POOL ENCLOSURE   SPITT. BLACK PONDER COATED STELL AMERIGTAR   1005     (9)   POOL ENCLOSURE   SPITT. BLACK PONDER COATED STELL AMERIGTAR   11230     (9)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   124     (10)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE   1202-1203     (11)   POOL EQUIPMENT   RE: PLUMBING FLANS   WOO4     (12)   CABANA STRUCTURE   RE: ARCH   RE: ARCH   RE: ARCH     (18)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL   1201     (10)   ROOL EQUIPMENT   RE: ARCH   RE: ARCH   RE: ARCH     (11)   ROOM   RE: ALTIONS   WOO4   1201     (12)   CABANA STRUCTURE   SOLID ROOF SHADE	3	CHILDREN'S SPLASH	PROVIDE SHOTCRETE FROST FOOTING AROUND	MIOB	
(3)   POOL LIPT   NOT EXCEED 48" AT LIFT LOCATION   MIOS     (6)   POOL COPING   CIP STEEMELER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM   6 MIOS     (7)   POOL LADDER   SWIMMING POOL LADDER FOR POOL EGRESS   1 MIOS     (8)   POOL ENCLOSURE   SVITMING POOL LADDER COATED STELL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FORCE THE FOOL   12/3 L201     (9)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   12/4 L201     (9)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   1/24 L201     (10)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP & THIN STORE VENEER BASE   L202-L203     (11)   POOL EQUIPMENT ROOM   RE: ARCH   RE: ARCH   L202-L203     (11)   POOL EQUIPMENT ROOM   RE: ARCH   RE: ARCH   L203     (12)   CABANA STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     (4)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DAGE   D L201     (15)   HARDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS M/ ORNAMENTAL IRON COVER   6 L201     (16)   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS M/ ORNAMENTAL IRON COVER   6 L201	4		MATERIAL OF CONTRASTING COLOR TO PLASTER		
(e)   POOL COPING   INTERMEDIATE FORM   WI03     (1)   POOL LADDER   SMIMMING POOL LADDER FOR POOL EGRESS   I     (1)   POOL ENCLOSURE   SHIT, BLACK PONDER COATED STELL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN   12,13     (2)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   1-4, L201     (c)   GRILL STATION   BUILT-IN GRILL AND ACCESS POORS M/ GRANITE COUNTERTOP # THIN STONE VENEER BASE   L202-L203     (1)   POOL EQUIPMENT RCOM   RE: PLUMBING PLANS   W004     (2)   CABANA STRUCTURE   RE: ARCH   RE: ARCH     (3)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     (4)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS M/ BEEHIVE DOME TOP   8 L201     (1)   HARDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS M/ CRINAMENTAL IRON COVER   6 L201     (1)   ILIEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS M/ CONTAMENTAL IRON COVER   6 L201     (1)   TRASH RECEPTACLE   BLACK ASHEDOKE RECEPTAVLE, MODEL AH401-DT, MANUF, BY BRP BY BISON   -     (1)   TRASH RECEPTACLE   BLACK ASHEDOKE RECEPTAVLE, MODEL AH401-DT, MANUF, BY GROUND SUFFACE BY POREVER LAWN, INSTALL PER MAN	5	POOL LIFT			
(1)   POOL LADDER   SHIMING POOL LADDER FOR POOL ESCESS   WI05     (3)   POOL ENCLOSURE FENCE   S' HT. BLACK PONDER COATED STELL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN   12,3 L201     (4)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   1-4 L201     (6)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS M/ GRANITE COUNTERTOP 4 THIN STONE VENEER BASE   L202-L203     (1)   POOL EQUIPMENT RCOM   RE: PLUMBING PLANS   WOO4     (12)   CABANA STRUCTURE   RE: ARCH   RE: ARCH     (13)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL DANE TOP   L203     (14)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DONE TOP   8 L201     (15)   HARDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6 L201     (16)   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   -     (16)   LINEAR DRAIN   PLAYGROUND   PE20-TIGOT PLAYGROUND SURFACE BY FOREVER LAWN. INSTALL PER MANUFACTURERS SURFACE   -     (17)   TRASH RECEPTACLE	6	POOL COPING		-	
(b)   POOL ENCLOSURE FENCE   MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN   12.01 L201     (c)   POOL DECK   GREY, BROOM FINISHED CONCRETE POOL DECK   1-4 L201     (c)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP 4 THIN STONE VENEER BASE   L202-L203     (ii)   POOL EQUIPMENT RCOM   RE: PLUMBING PLANS   WOO4     (iii)   POOL EQUIPMENT RCOM   RE: ARCH   RE: ARCH     (iii)   SHADE STRUCTURE   RE: ARCH   RE: ARCH     (iii)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     (iii)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP   0     (iii)   HARDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6 L201     (ii)   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS M/ ORNAMENTAL IRON COVER   6 L201     (ii)   TRASH RECEPTACLE   BLACK ASHEDOKE RECEPTAVLE, MODEL AH40-DT, MANUF. BY BER BY BISON   -     (iii)   PLAYGROUND   PLAYGROUND   PED20-T1907 PLAYGROUNHD BY LITTLE TIKES   4 L204     (iii)   PLAYGROUND   SPECIFICATIONS, SURROUND WITH CONCRETE BAND   - <td< td=""><td>7</td><td>POOL LADDER</td><td>SWIMMING POOL LADDER FOR POOL EGRESS</td><td>•</td></td<>	7	POOL LADDER	SWIMMING POOL LADDER FOR POOL EGRESS	•	
(4)   POOL DECK   GRET, BROOM FINISHED CONCRETE FOOL DECK   L201     (6)   GRILL STATION   BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP 4 THIN STONE VENEER BASE   L202-L203     (1)   POOL EQUIPMENT ROOM   RE: PLUMBING PLANS   W004     (2)   CABANA STRUCTURE   RE: ARCH   RE: ARCH     (3)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     (4)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP   8 L201     (5)   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     (6)   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6 L201     (7)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (6)   PLAYGROUND   PB20-TIGOT PLAYGROUND BY LITTLE TIKES SPECIFICATIONS. SURROUND SURFACE BY FOREVER LAWN. INSTALL PRE MANUFACTURERS SPECIFICATIONS. SURROUND WITH CONCRETE BAND   -     (2)   PERGOLA STRUCTURE   STEEL 4 FABRIC PERGOLA STRUCTURE   L202     (2)   RETAINING WALL   CONCRETE RETAINING WALL WITH OPTION	8		MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL	•	
IO   GRILL STATION   COUNTERTOP & THIN STONE VENEER BASE   L202-L203     II   POOL EQUIPMENT ROOM   RE: PLUMBING PLANS   W004     III   CABANA STRUCTURE   RE: ARCH   RE: ARCH     IIII   SHADE STRUCTURE   RE: ARCH   RE: ARCH     IIII   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     III   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS w/ BEEHIVE   Ø     IIII   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS w/ BEEHIVE   Ø     IIII   LANDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS w/ ORNAMENTAL IRON COVER   Ø     IIII   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS m/ ORNAMENTAL IRON COVER   Ø     IIII   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS m/ ORNAMENTAL IRON COVER   Ø     IIII   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     IIII   PLAYGROUND   PE20-TIGOT PLAYGROUND SURFACE BY POREVER LAWN. INSTALL PER MANUFACTUREYS SPECIFICATIONS. SURROUND SURFACE BY POREVER LAWN. INSTALL PER MANUFACTUREYS SPECIFICATIONS. SURROUND WITH CONCRETE BAND   -     IIII   QONCRETE RETAINING WALL   III L204     IIIIII   SURF	٩	POOL DECK	GREY, BROOM FINISHED CONCRETE POOL DECK		
III   ROOM   REPERING PLANS   ROOF     III   ROOM   REPERING PLANS   ROOF     III   CABANA STRUCTURE   RE: ARCH   RE: ARCH     IIII   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL   L203     IIII   LANDSCAPE AREA   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE   Stations     IIII   LANDSCAPE AREA   AREA DRAIN IN HARDSCAPE AREAS W/ BEEHIVE   Stations     IIII   HARDSCAPE AREA   AREA DRAIN IN HARDSCAPE AREAS W/ BEEHIVE   Stations     IIII   HARDSCAPE AREA   AREA DRAIN IN HARDSCAPE AREAS W/ BEEHIVE   Stations     IIII   IIINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS W/ BEEHIVE   Stations     IIII   IIINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   BL20I   BL20I     IIII   IIINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   BL20I   BL20I     IIII   IIINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   BL20I   COIL20I     IIII   IIINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   BL20I   COIL20I     IIII   IIINELINE DRAIN IN HARDSCAPE AREAS M/ ORNAMENTAL IRON COVER   BL20I   COIL20I     IIII   B	$\bigcirc$	GRILL STATION		L202-L203	
(3)   SHADE STRUCTURE   SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS   L203     (4)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP   8 L201     (5)   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     (6)   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6 L201     (7)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (6)   PLAYGROUND   PB20-71407 PLAYGROUND BY LITTLE TIKES   4 L204     (9)   PLAYGROUND   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   I L204			RE: PLUMBING PLANS	W004	
(3)   SHADE STRUCTURE   STATIONS   L203     (4)   LANDSCAPE AREA DRAIN   AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP   8 L201     (6)   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     (7)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (8)   PLAYGROUND   PB20-TI907 PLAYGROUNHD BY LITTLE TIKES COMMERCIAL   4 L204     (1)   PLAYGROUND   PB20-TI907 PLAYGROUND SURFACE BY FOREVER LAWN. INSTALL PER MANUFACTURER'S SPECIFICATIONS, SURROUND SURFACE BY FOREVER LAWN. INSTALL PER MANUFACTURER'S SPECIFICATIONS, SURROUND WITH CONCRETE BAND   -     (2)   PERGOLA STRUCTURE   STEEL & FABRIC PERGOLA STRUCTURE   L202     (2)   RETAINING WALL   CONCRETE RETAINING WALL WITH OPTIONAL STONE   1 L204	(12)	CABANA STRUCTURE	RE: ARCH	RE: ARCH	
(14)   DRAIN   DOME TOP   L201     (15)   HARDSCAPE AREA DRAIN   AREA DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6     (16)   LINEAR DRAIN   IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER   6     (17)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (17)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (19)   PLAYGROUND   PB20-TI907 PLAYGROUND SUFFACE BY FOREVER LAWN INSTALL PER MANUFACTURER'S SPECIFICATIONS. SURROUND SUFFACE BY FOREVER LAWN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SURROUND WITH CONCRETE BAND   -     (20)   PERGOLA STRUCTURE   STEEL & FABRIC PERGOLA STRUCTURE   L202     (21)   RETAINING MALL   CONCRETE RETAINING WALL WITH OPTIONAL STONE VENEER AND PRECAST CAP   I	(13)	SHADE STRUCTURE		L203	
(15)   DRAIN   ORNAMENTAL IRON COVER   L201     (16)   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   -     (18)   PLAYGROUND   PB20-TI907 PLAYGROUNHD BY LITTLE TIKES   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   I L204	(14)				
(6)   LINEAR DRAIN   ORNAMENTAL IRON COVER   L201     (1)   TRASH RECEPTACLE   BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON   -     (8)   PLAYGROUND   PB20-71907 PLAYGROUND BY LITTLE TIKES   4 L204     (9)   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 MALL   CONCRETE RETAINING MALL WITH OPTIONAL STONE VENEER AND PRECAST CAP   I L204	(15)			-	
(1)   TRASH RECEPTACLE   AH40I-DT, MANUF. BY BRP BY BISON   -     (8)   PLAYGROUND   PB20-TI90T PLAYGROUNHD BY LITTLE TIKES   4     (19)   PLAYGROUND   ARTIFICIAL LAWN PLAYGROUND SURFACE BY   4     (19)   PLAYGROUND   ARTIFICIAL LAWN PLAYGROUND SURFACE BY   -     (19)   PLAYGROUND   ARTIFICIAL LAWN PLAYGROUND SURFACE BY   -     (19)   PLAYGROUND   SURFACE   ARTIFICIAL LAWN PLAYGROUND SURFACE BY   -     (19)   PLAYGROUND   SURFACE   ARTIFICIAL LAWN INSTALL PER MANUFACTURER'S   -     (19)   PLAYGROUND   SURFACE   SPECIFICATIONS. SURROUND WITH CONCRETE BAND   -     (20)   PERGOLA STRUCTURE   STEEL & FABRIC PERGOLA STRUCTURE   L202     (21)   RETAINING WALL   CONCRETE RETAINING WALL WITH OPTIONAL STONE   I     (21)   RETAINING WALL   CONCRETE RETAINING WALL WITH OPTIONAL STONE   I	(6)	LINEAR DRAIN			
(B)   PLAYGROUND   COMMERCIAL   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   I L204	(7)	TRASH RECEPTACLE	•	-	
(9)   PLAYGROUND SURFACE   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   I L204	B	PLAYGROUND		•	
(2) RETAINING WALL CONCRETE RETAINING WALL WITH OPTIONAL STONE I   (2) RETAINING WALL CONCRETE RETAINING WALL WITH OPTIONAL STONE I			FOREVER LAWN. INSTALL PER MANUFACTURER'S	-	
(21) RETAINING WALL VENEER AND PRECAST CAP L204	20	PERGOLA STRUCTURE	STEEL & FABRIC PERGOLA STRUCTURE	L202	
22 CONCRETE STEPS CONCRETE STEPS WITH S.S. HANDRAIL L204	2)	RETAINING WALL		ا L204	
	23	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204	

DC Lorax DESIGN GROUP 8021 SANTA FE DRIVE OVERLAND PARK, KS 66204 WWW.LORAXDESIGNGROUP.COM NUMBER 2.23.202

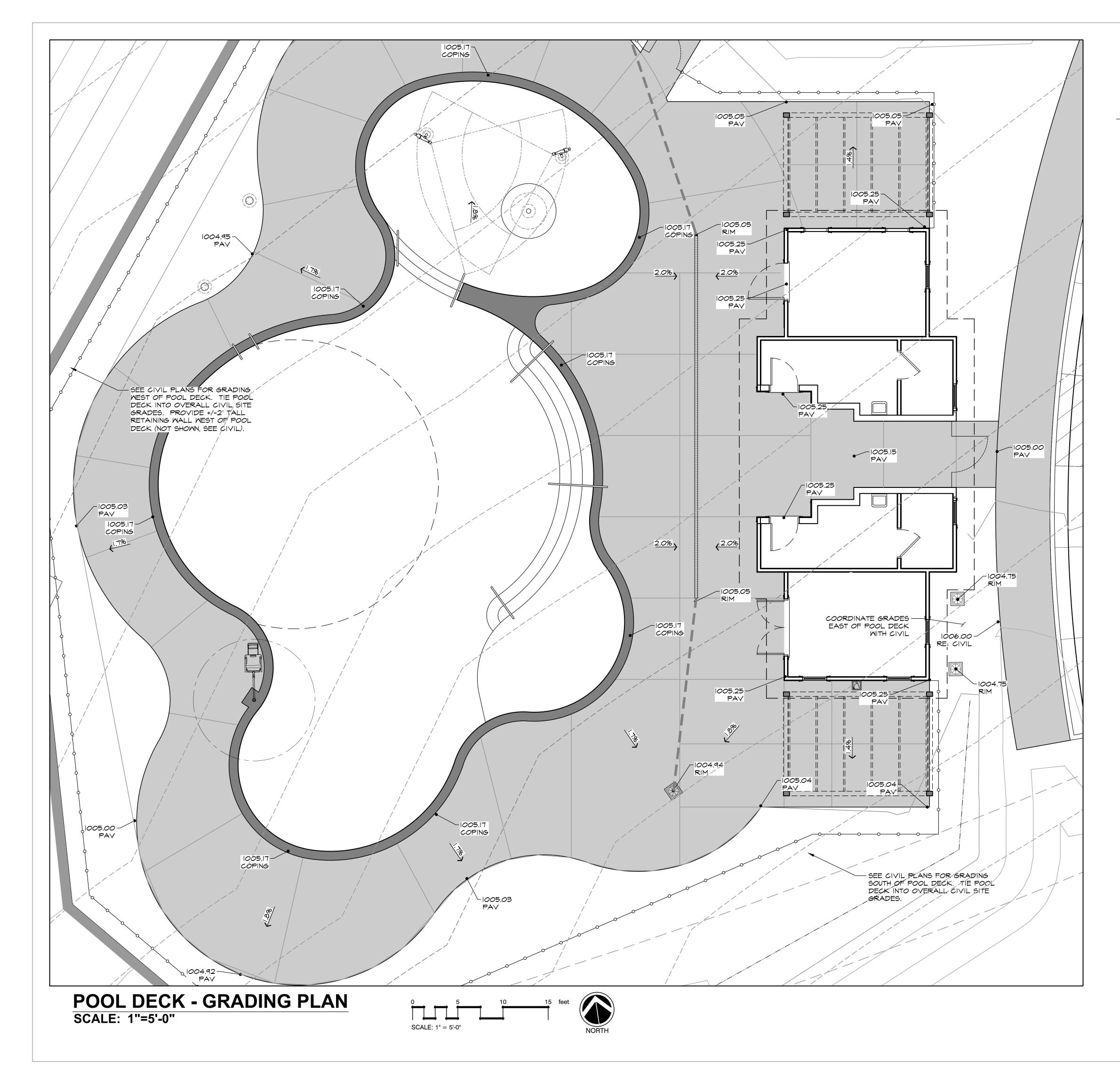
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**REVISION**:

DECEMBER 2, 2021 GRILL PATIO -LAYOUT PLAN

L102





MALL

PAVEMENT

TRENCH DRAIN



AREA DRAIN

 $\xrightarrow{2\%}$  SLOPE AREA

### 

FFE	-	FINISHED FLOOR ELEVATION
BFE	-	BASEMENT FLOOR ELEVATION
TΜ	-	TOP WALL
BM	-	BOTTOM WALL
TS	-	TOP STEP
BS	-	BOTTOM STEP
DI	-	DRAIN INLET
RIM	-	DRAIN RIM ELEVATION
PAV	-	PAVING ELEVATION
TC	-	TOP COPING
HP	-	HIGH POINT
DS	-	DOWN SPOUT

FG - FINISHED GRADE THRESH - THRESHOLD ELEVATION

### **GENERAL NOTES**

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

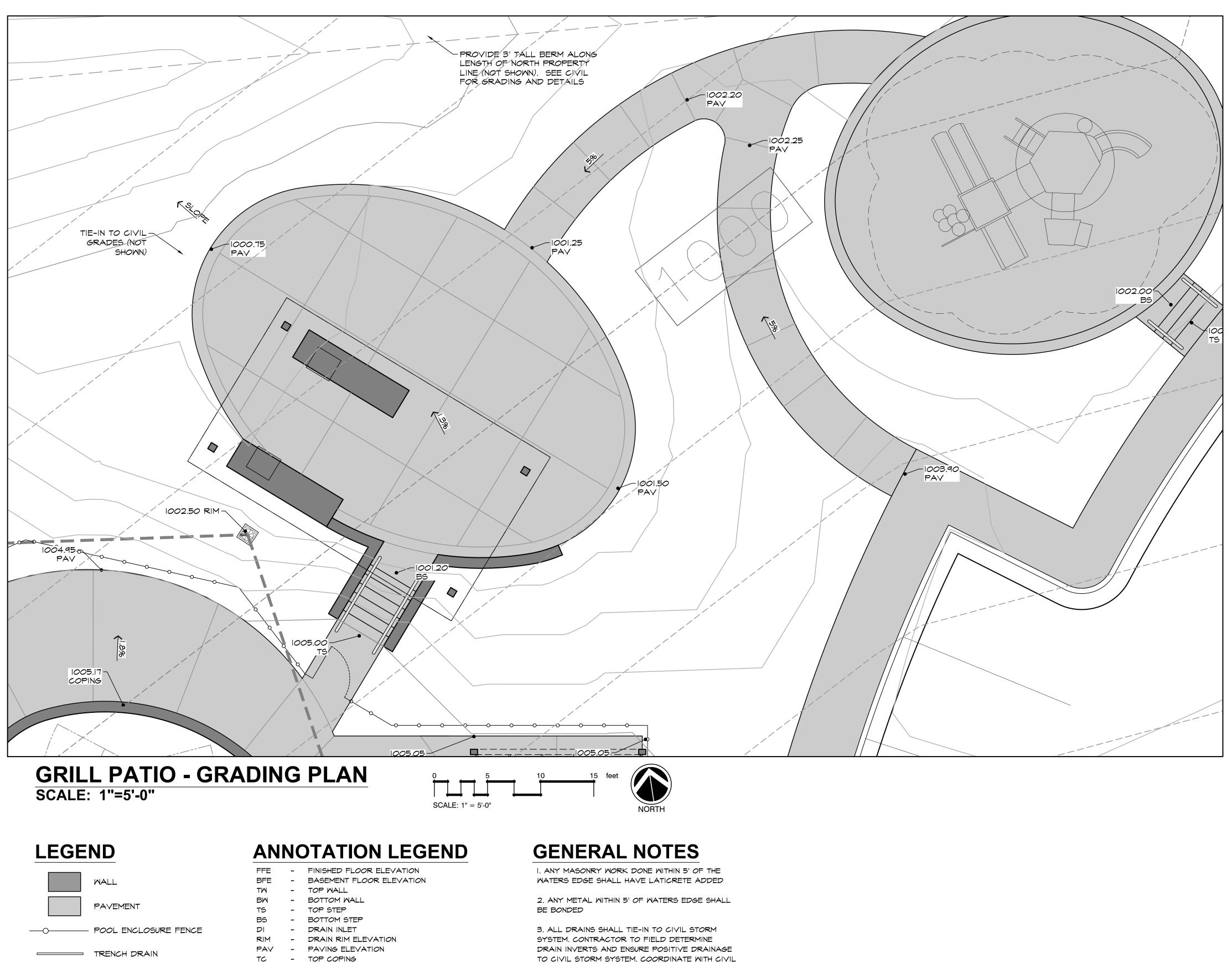
2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

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:
DECEMBER 2, 2021
POOL DECK - GRADING PLAN
L103



TO CIVIL STORM SYSTEM. COORDINATE WITH CIVIL

- HIGH POINT

- DOWN SPOUT

THRESH - THRESHOLD ELEVATION

FG - FINISHED GRADE

ΗP

DS

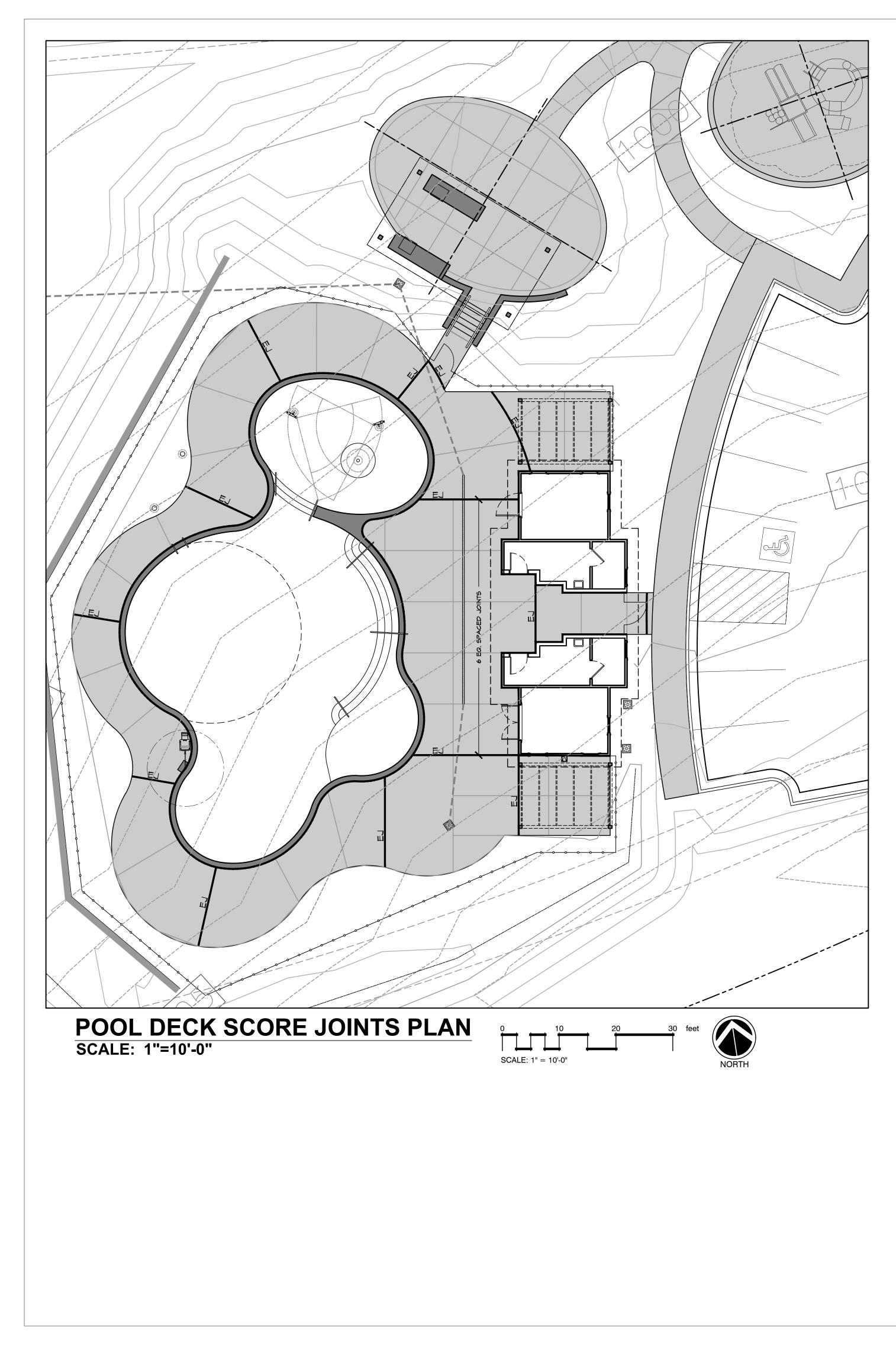
AREA DRAIN

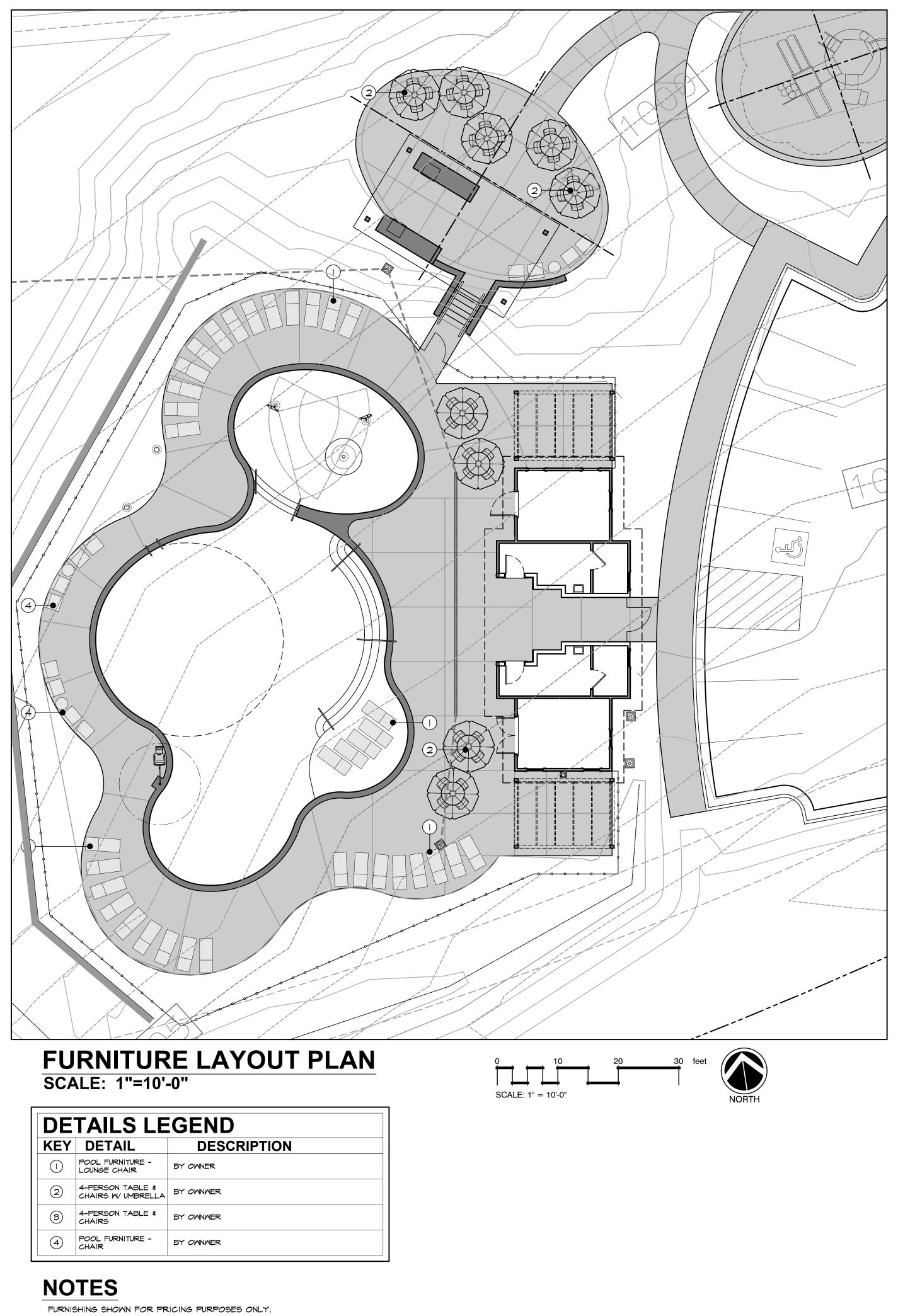
 $\xrightarrow{2\%}$  SLOPE AREA



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DECEMBER 2, 2021
GRILL PATIO - GRADING PLAN
L104
L104

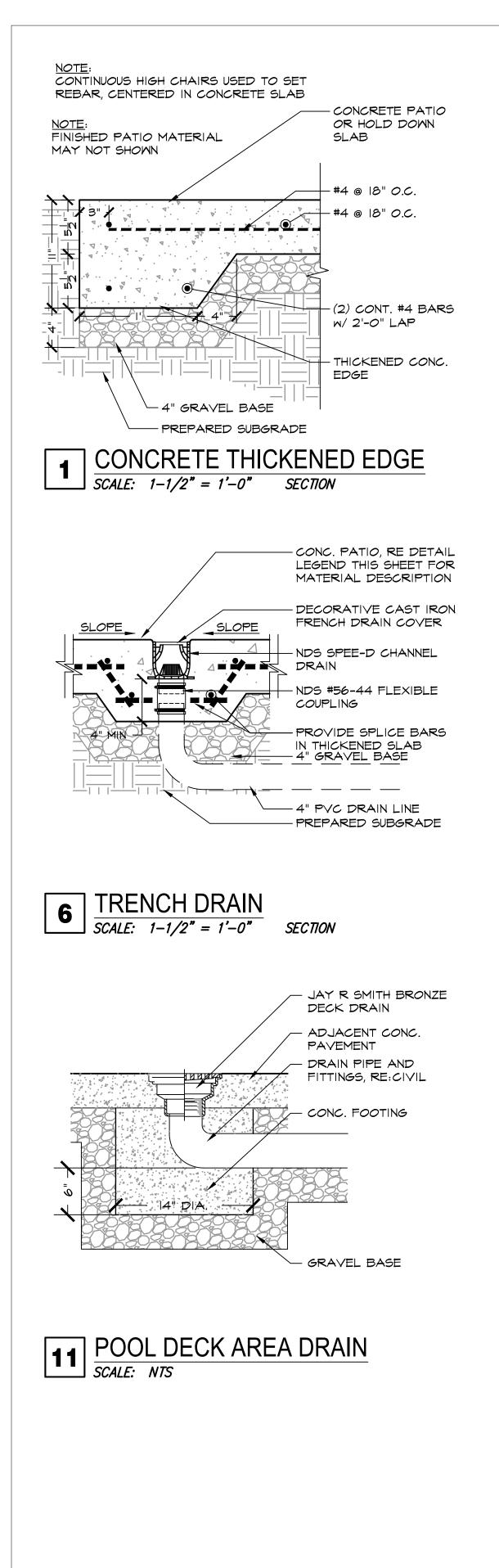


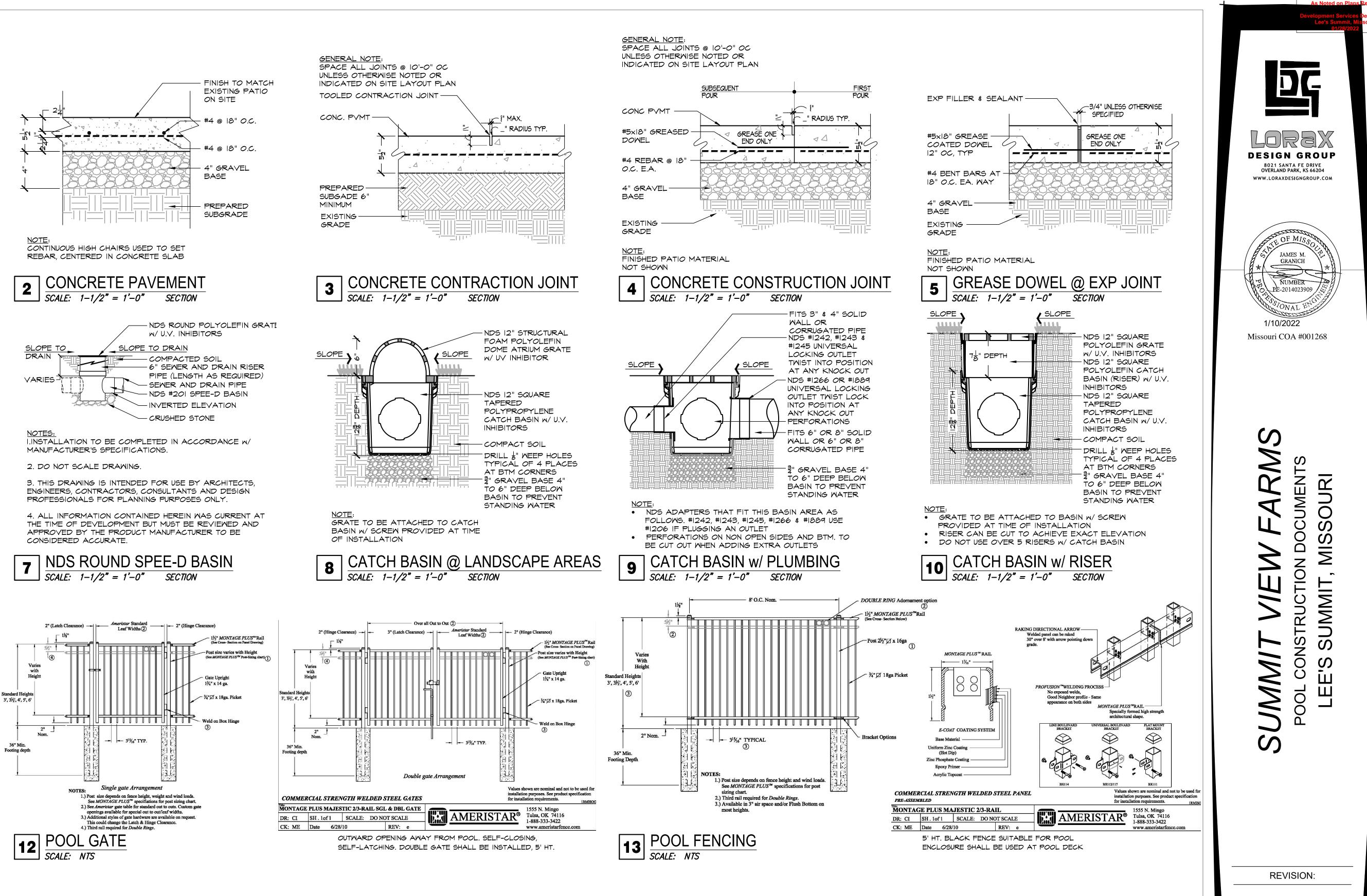


DETAILS LEGEND			
KEY	DETAIL	DESCRIPTION	
	POOL FURNITURE - LOUNGE CHAIR	BY OWNER	
2	4-PERSON TABLE & CHAIRS W/ UMBRELLA	BY OWNWER	
3	4-PERSON TABLE & CHAIRS	BY OWNWER	
4	POOL FURNITURE - CHAIR	BY OWNMER	

VERIFY FINAL SELECTION W/ ARCHITECT





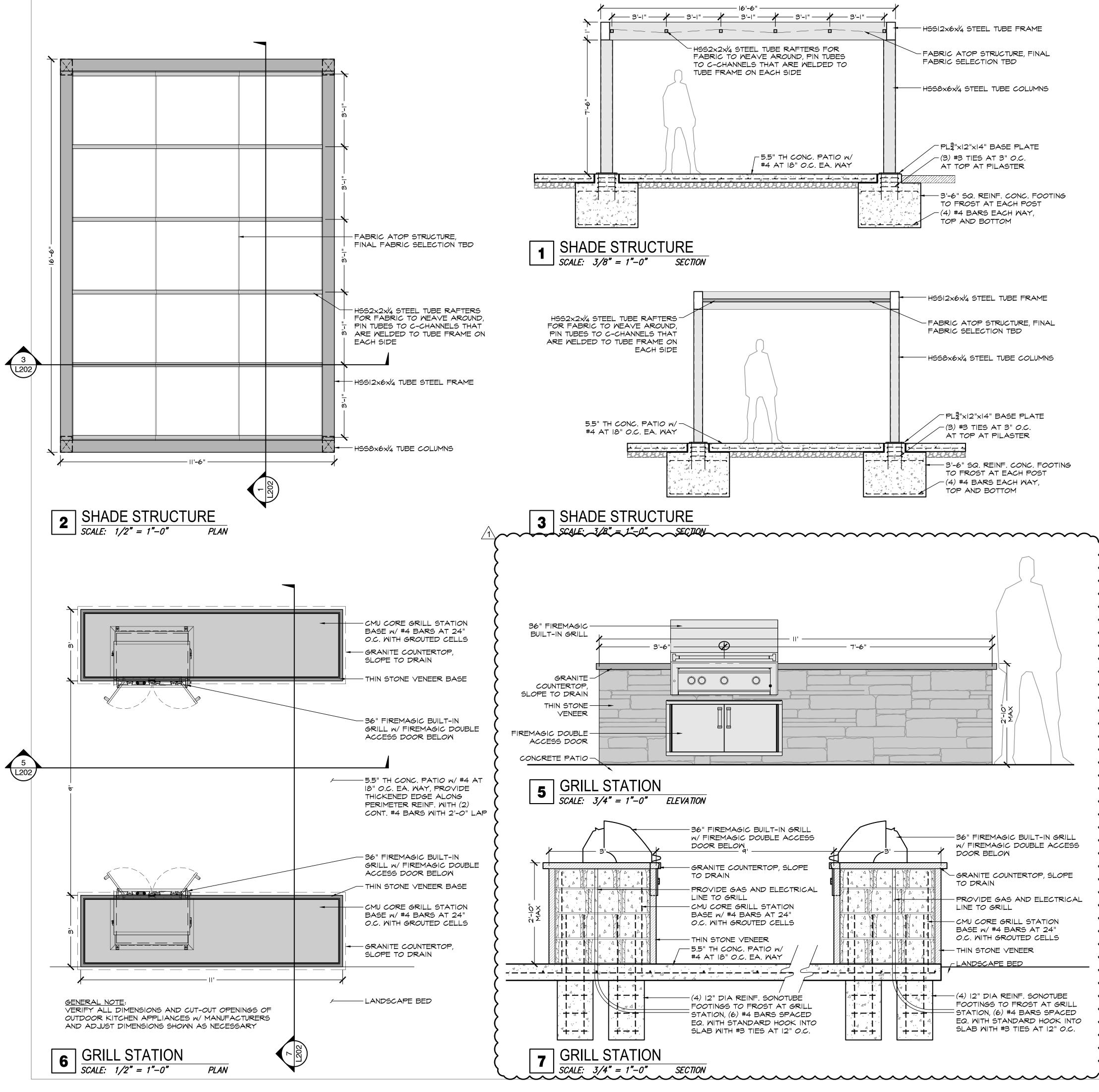


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SITE DETAILS

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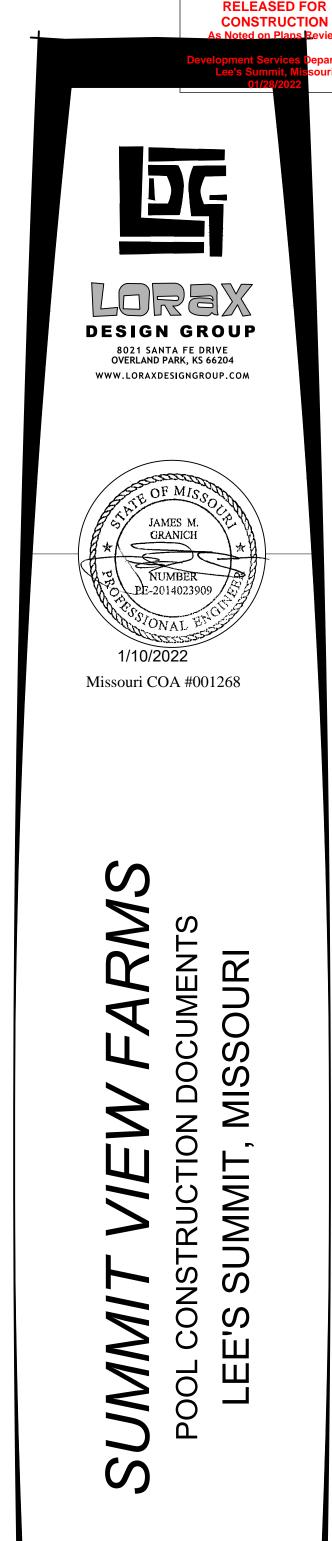






4 SHADE STRUCTURE VIGNETTE SCALE: NTS ILLUSTRATIVE VIEW



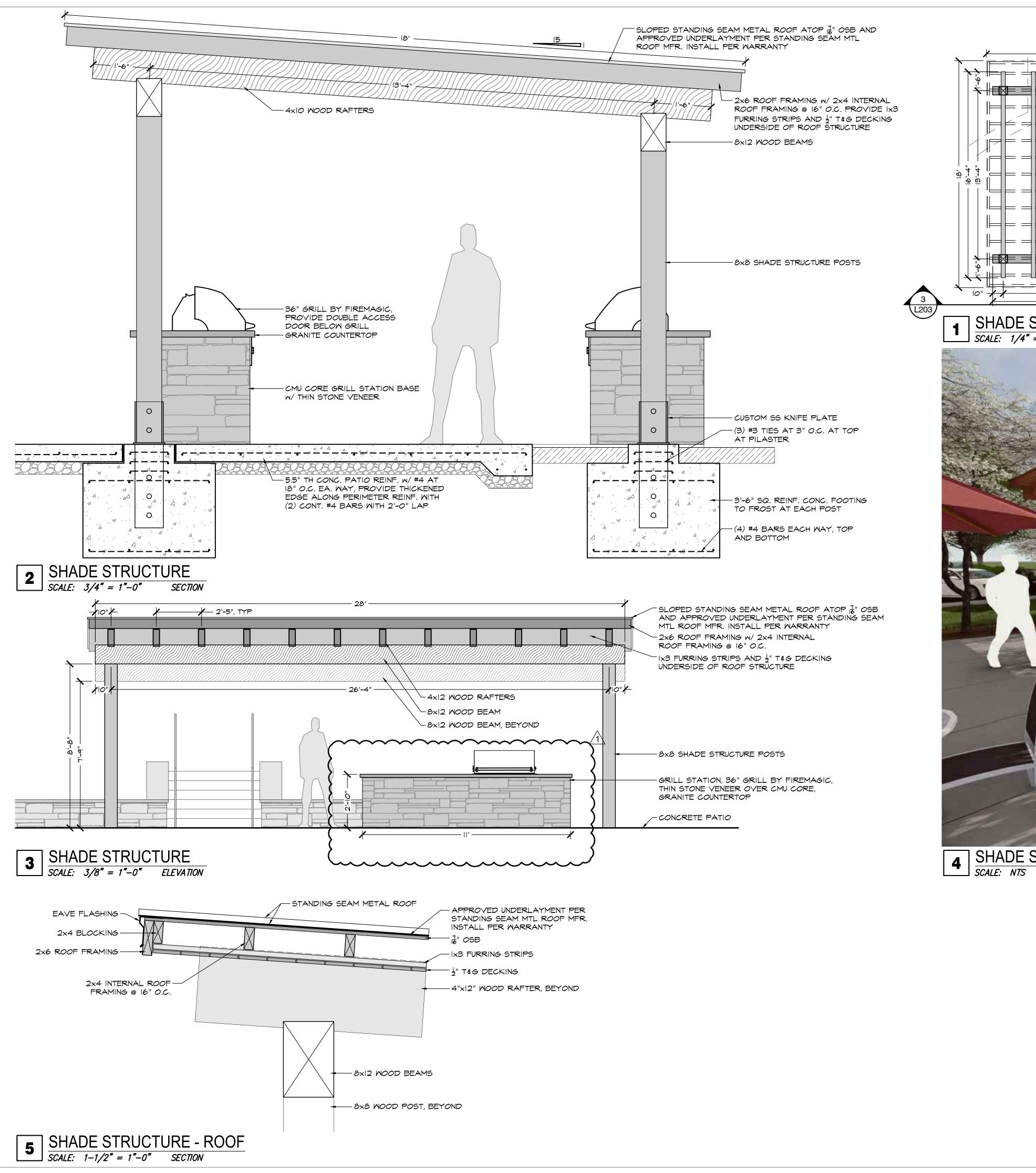


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**DECEMBER 2, 2021** SITE DETAILS

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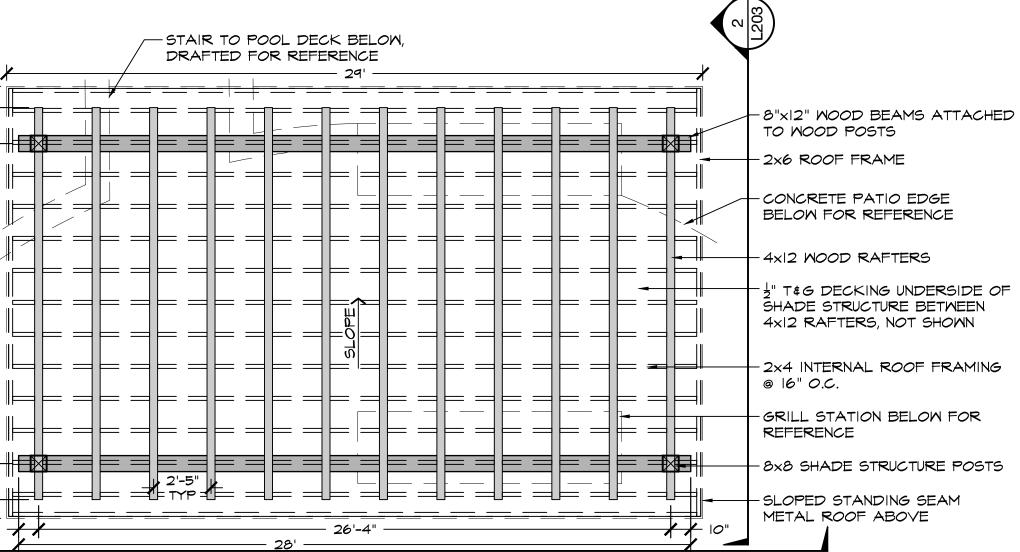


- 26'-4" — SHADE STRUCTURE SCALE: 1/4" = 1"-0"PLAN

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| SHADE STRUCTURE VIGNETTE SCALE: NTS ILLUSTRATIVE VIEW



- 29'

= =



INDICATED FINAL DESIGN OF PATIO SPACES

DÇ Lorax **DESIGN GROUP** 8021 SANTA FE DRIVE OVERLAND PARK, KS 66204 WWW.LORAXDESIGNGROUP.COM JAMES M. GRANICH NUMBER \_PE-2014023909 ONA 1/10/2022 Missouri COA #001268 の  $\sim$  $\leq$ OUR Ш NN  $\triangleleft$ ()S  $\cap$ MIS  $\square$ Ē UMN RU S 7 Õ JMM S

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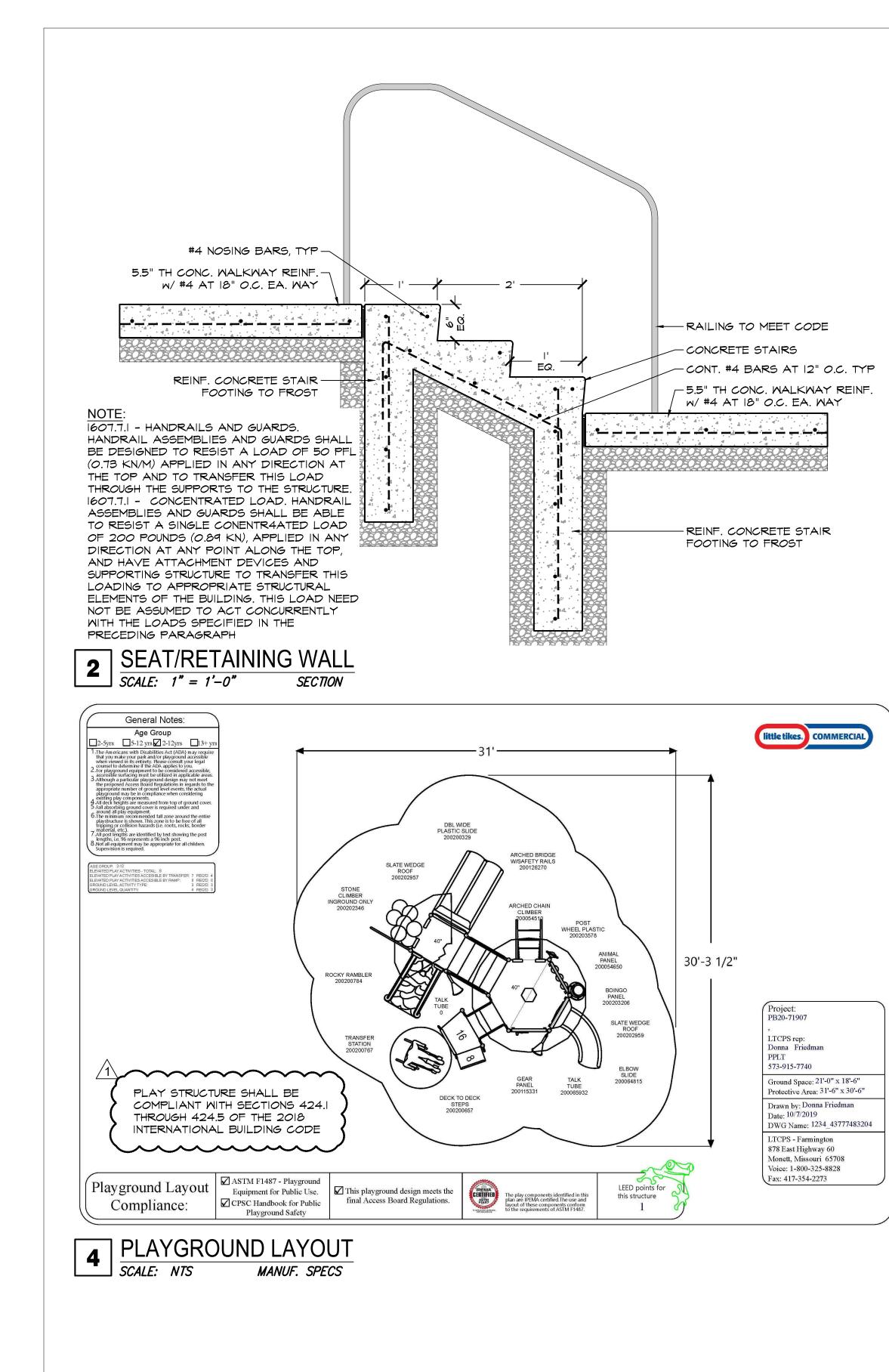
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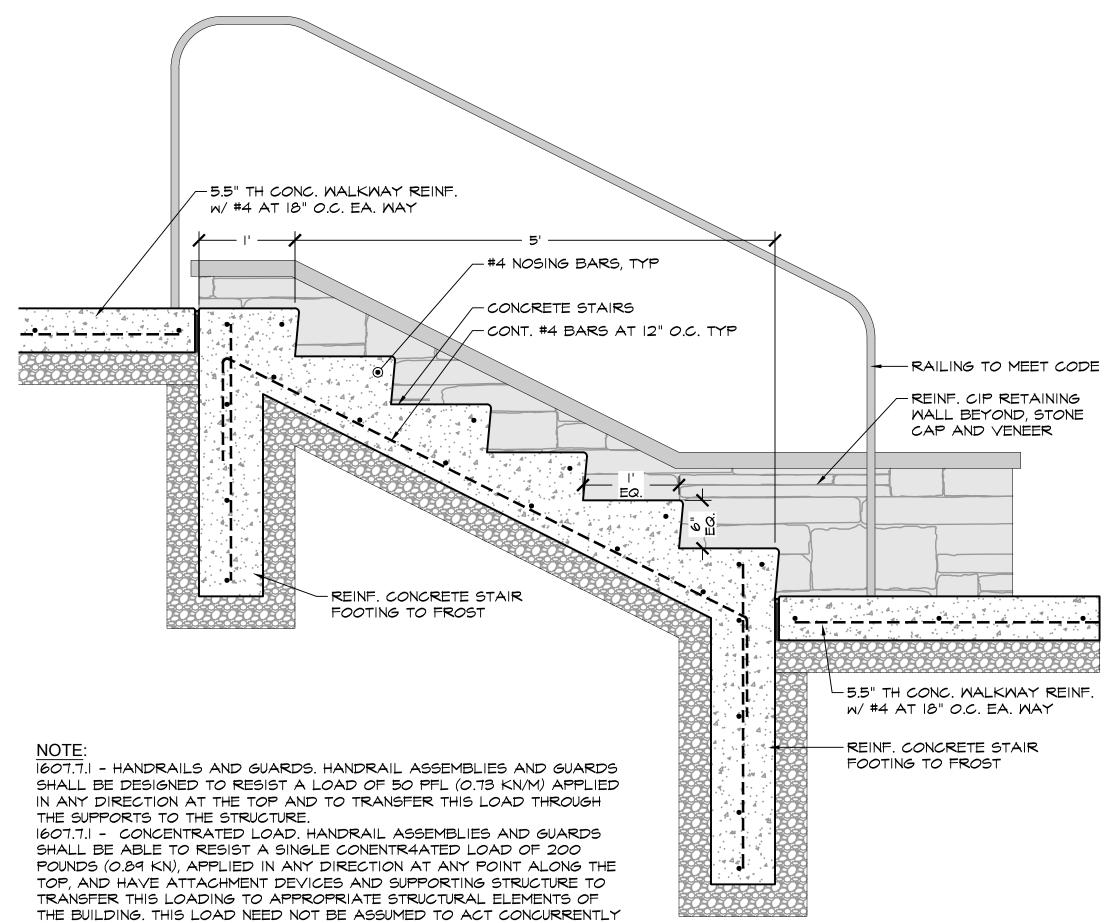
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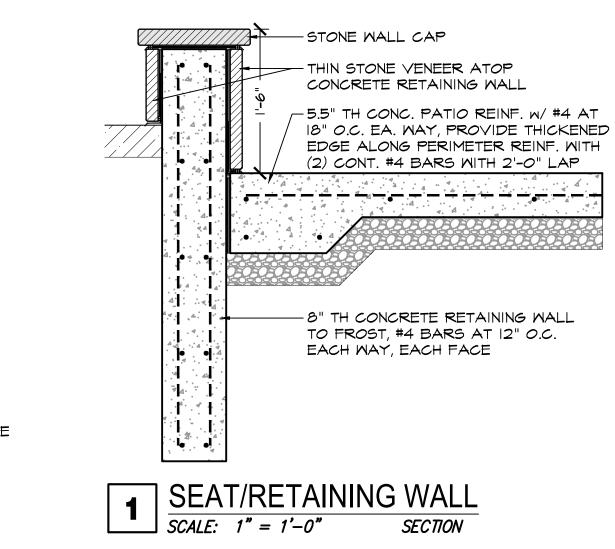
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**DESIGN GROUP** 

8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM

JAMES M

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GRANICH

NUMBER

\_PE-2014023909

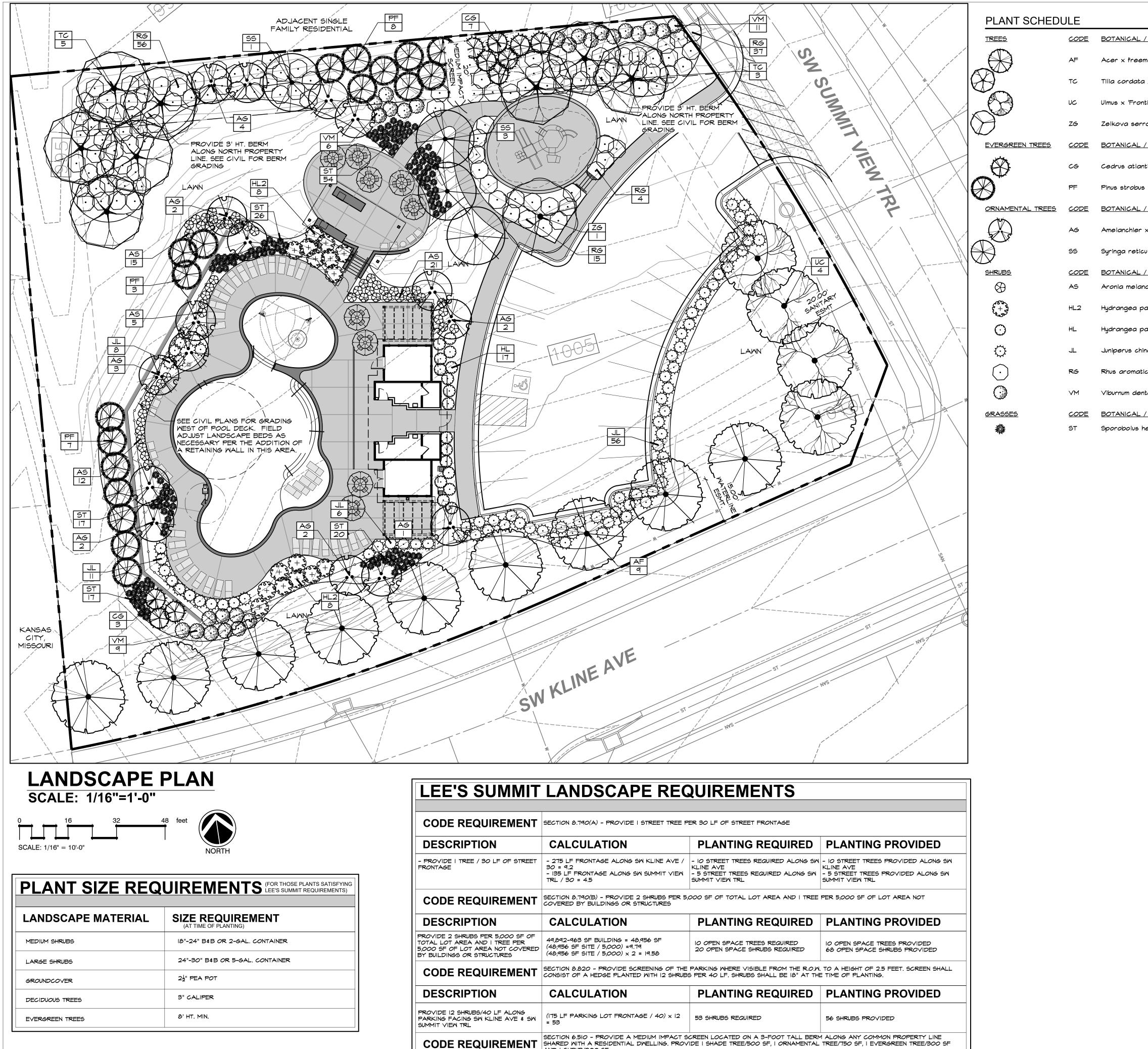
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Missouri COA #001268

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L204



DESCRIPTION

PROVIDE I SHADE TREE/500 SF, I ORNAMENTAL TREE/750 SF, I EVERGREEN TREE/300 SF, I SHRUB/200 SF ALONG NORTH PROPERTY LINE

Γ	LANDSCAPE REQUIREMENTS				
Γ	SECTION 8.790(A) - PROVIDE I STREET TREE PE	ER 30 LF OF STREET FRONTAGE			
	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED		
т	30 = 9.2 - 135 LF FRONTAGE ALONG SW SUMMIT VIEW	KLINE AVE	- IO STREET TREES PROVIDED ALONG SW KLINE AVE - 5 STREET TREES PROVIDED ALONG SW SUMMIT VIEW TRL		
Γ	SECTION 8.790(B) - 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				
	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED		
= D	49,892-963 SF BUILDING = 48,956 SF (48,956 SF SITE / 5,000) =9.79 (48,956 SF SITE / 5,000) x 2 = 19.58	10 OPEN SPACE TREES REQUIRED 20 OPEN SPACE SHRUBS REQUIRED	10 OPEN SPACE TREES PROVIDED 68 OPEN SPACE SHRUBS PROVIDED		
Γ	SECTION 8.820 - PROVIDE SCREENING OF THE CONSIST OF A HEDGE PLANTED WITH 12 SHRUBS				
	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED		
N	(175 LF PARKING LOT FRONTAGE / 40) x 12 = 53	53 SHRUBS REQUIRED	56 SHRUBS PROVIDED		
Γ	SECTION 6.510 - PROVIDE A MEDIUM IMPACT SCREEN LOCATED ON A 3-FOOT TALL BERM ALONG ANY COMMON PROPERTY LINE SHARED WITH A RESIDENTIAL DWELLING. PROVIDE I SHADE TREE/500 SF, I ORNAMENTAL TREE/750 SF, I EVERGREEN TREE/300 SF AND I SHRUB/200 SF				
	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED		
00	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		

/ COMMON NAME	SIZE	<u>CONTAINER</u>
emanii / Freeman Maple	3" Cal.	B¢B
a / Littleleaf Linden	3" Cal.	B¢B
ntier' / Frontier Hybrid Elm	3" Cal.	B≰B
rata 'Green Vase' / Green Vase Sawleaf Zelkova	3" Cal.	B¢B
/ COMMON NAME	SIZE	
ntica 'Glauca Fastigiata' / Blue Columnar Atlas Cedar	8'-9' ht.	B¢B
is 'Fastigiata' / Pyramidal White Pine	8'-9' ht.	B¢B
/ COMMON NAME	SIZE	
× grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry	3" Cal.	B¢B
culata 'Summer Snow' / Summer Snow Japanese Tree Lilac	3" Cal.	B≰B
/ COMMON NAME	SIZE	
nocarpa 'UCONNAMO12' TM / Ground Hog Spreading Chokeberry	#3	
oaniculata 'Limelight' / Limelight Panicle Hydrangea	#5	
oaniculata 'Little Lime' / Little Lime Hydrangea	#3	
ninensis 'Gold Lace' / Gold Lace Juniper	#5, 24" ht. min.	
tica 'Gro-Low' / Gro-Low Fragrant Sumac	#3	
ntatum 'Blue Muffin' / Blue Muffin Viburnum	#5, 24" ht. min.	
/ COMMON NAME	SIZE	<u>CONTAINER</u>
heterolepis 'Tara' / Prairie Dropseed	#2	



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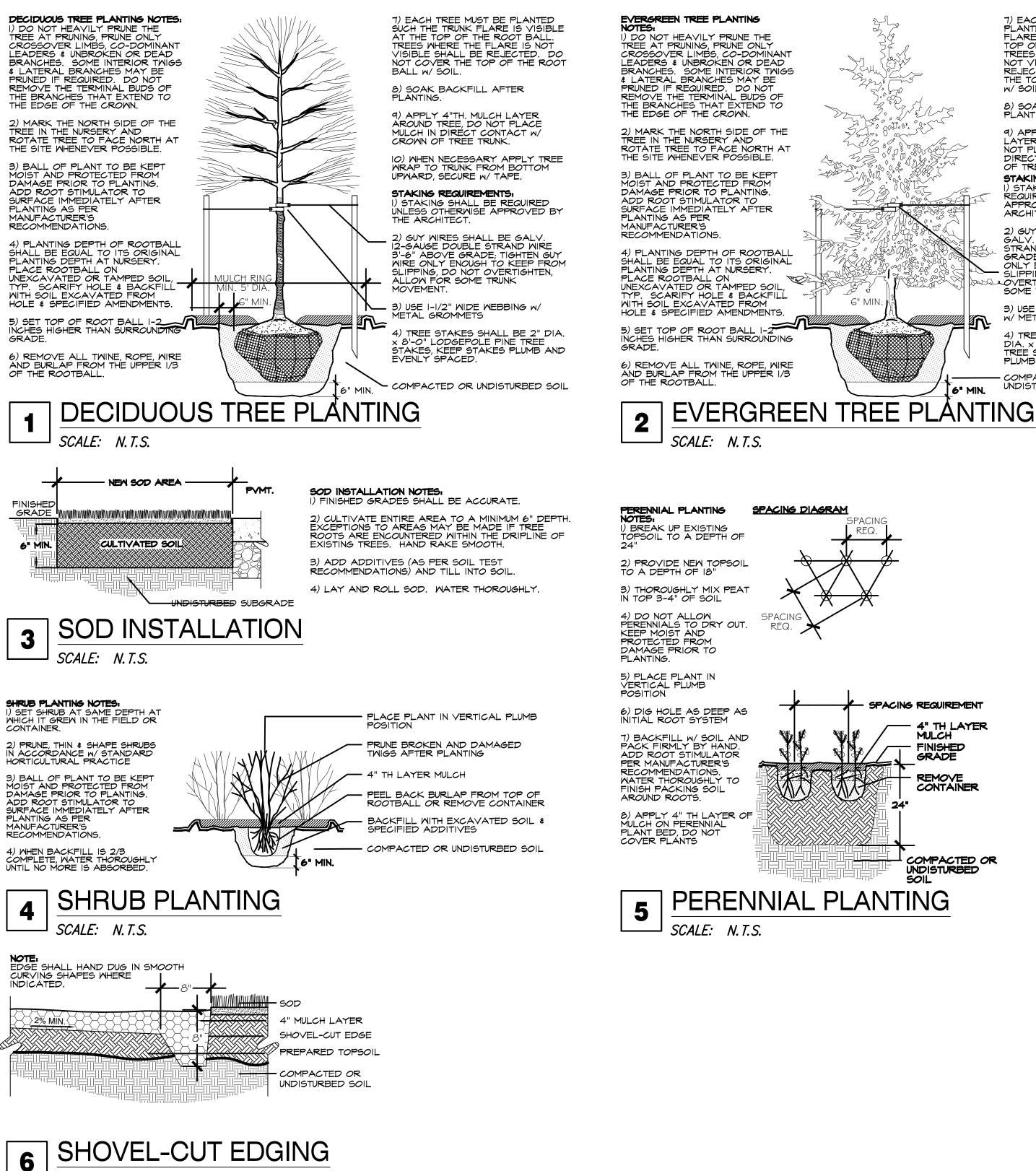
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LANDSCAPE PLAN
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## **GENERAL NOTES**

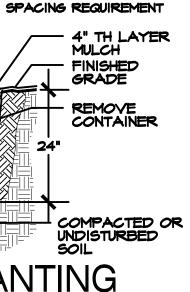
- I. THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.
- 2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
- 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 NURSERY, PRIOR TO SELECTION OR DIGGING.
- 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 I. 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.
- IG.ALL SLOPES THAT EXCEED A 3:I GRADE SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET WITH NORTH AMERICAN GREEN SI50. 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.

RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.

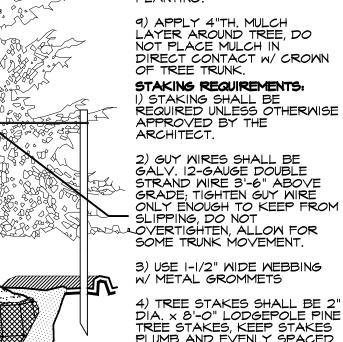
- 19. LOOSEN SOIL FOR ALL PLANTING ISLANDS AND SHRUB/PERENNIAL BEDS TO A DEPTH OF 12". ALL AREAS DENOTED AS SOD (LAWN AREAS) SHALL HAVE A 6" MINIMUM TOPSOIL LAYER. TOPSOIL SHALL BE LAID IN 3" LIFTS. IN AREAS WHERE CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADES YET EXIST, THE TOPSOIL LAYER 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. IRRIGATION SYSTEM SHALL UTILIZE A RAIN SENSOR. DRIP IRRIGATION SHALL BE UTILIZED AT LANDSCAPE BEDS. 25. COORDINATE 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
- 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 BEFORE SOD IS PLACED.



SCALE: N.T.S.







7) EACH TREE MUST BE PLANTED SUCH THE TRUNK LARE IS VISIBLE AT THE OP OF THE ROOT BALL TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SOIL. 8) SOAK BACKFILL AFTER PLANTING.

) GUY WIRES SHALL

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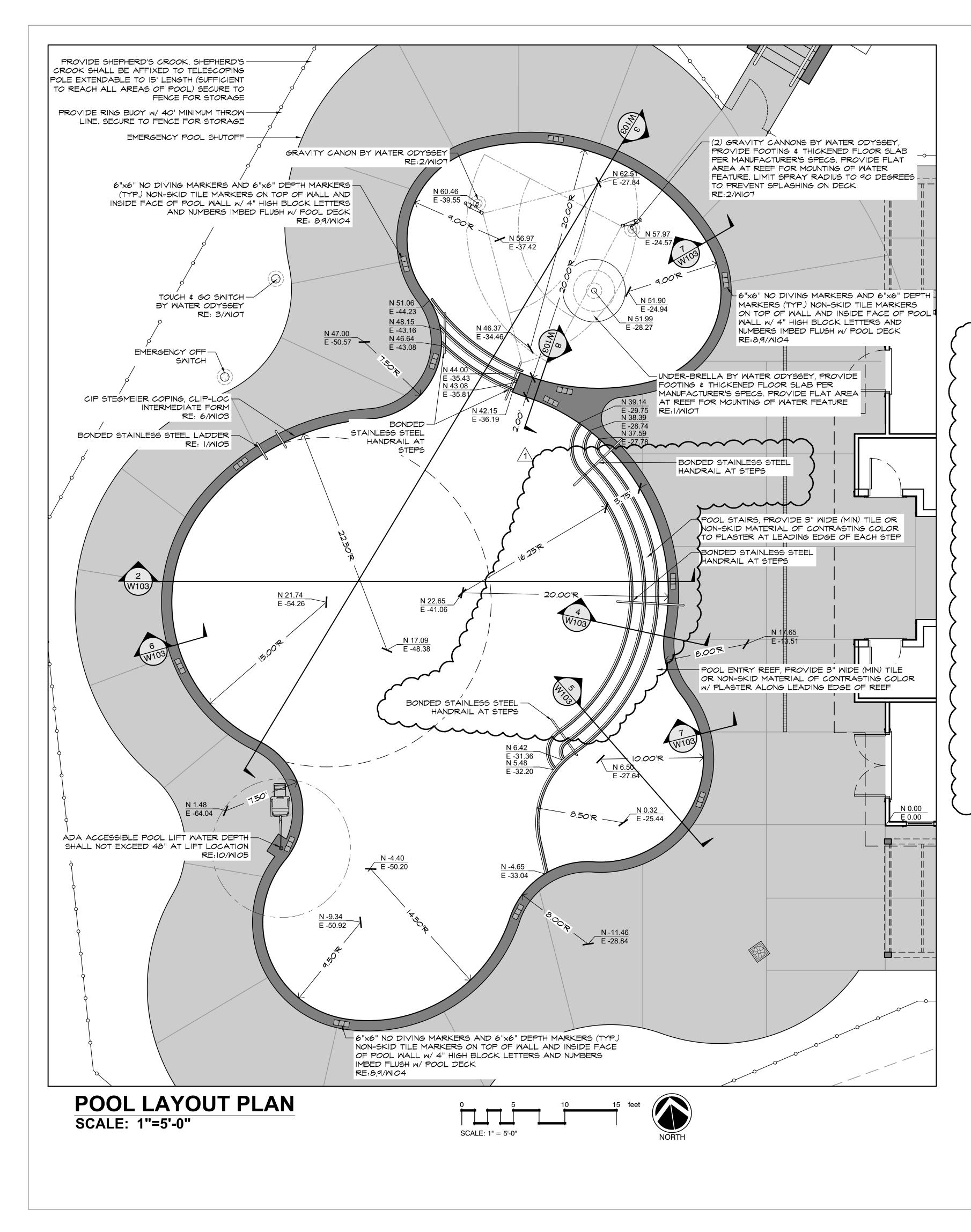


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**DECEMBER 2, 2021** LANDSCAPE NOTES & DETAILS .102

**REVISION:** 



## **PLAN NOTES**

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

## **POOL GUIDELINES**

- 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 SWIM YOURSELF. YOU CAN NOT SAVE A CHILD IF YOU CAN NOT SWIM
- 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 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

### **POOL SIGNAGE**

PROVIDE POOL/ SPA RULES SIGNAGE POSTED AT EXTERIOR FACE OF POOL HOUSE WITH THE FOLLOWING VERBIAGE:

- . NO PERSON WITH OPEN CUTS, SORES, LESIONS, INFECTIONS
- 2.08VIOUS COMMUNICABLE DISEASE, OR DIARRHEA SHALL USE THE SWIMMING POOL;
- 3. ANIMALS ARE NOT ALLOWED IN OR AROUND THE SWIMMING POOL, EXCEPT THAT SERVICE ANIMALS AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT MUST BE ALLOWED ON POOL DECKS AND ANY OTHER PLACES THE PUBLIC IS ALLOWED. SERVICE ANIMALS ARE NOT ALLOWED IN THE WATER, ON DIVING BOARDS, ON WATER SLIDES, ON FLOATATION RAFTS, ETC;
- 4.GLASS CONTAINERS ARE NOT ALLOWED IN OR AROUND THE SWIMMING POOL
- 5. CHILDREN WHO ARE NOT TOILET TRAINED SHALL WEAR TIGHT FITTING PLASTIC UNDERWEAR OR SWIM DIAPERS THAT WILL PREVENT LEAKAGE 6.NO DIVING
- 7. CHILDREN, AS DEFINED BY THE AQUATIC VENUE, SHALL BE ACCOMPANIED BY AN ADULT

PROVIDE SEPARATE WARNING SIGN, CONSPICUOUSLY PLACED AT ENTRANCE TO THE VENUE STATING: "WARNING -NO LIFEGUARD ON DUTY" IN LETTERS AT LEAST FOUR (4) INCHES HIGH.

POST SIGNAGE AT THE POOL DECK EXIT GATE WITH THE FOLLOWING INFORMATION:

- SWIMMING POOL PATRON LOAD SHALL NOT EXCEED 137 PERSONS
- 2. POOL DECK PATRON LOAD SHALL NOT EXCEED 369 PERSONS

## **POOL OPERATION**

I. SWIMMING POOL SHALL BE MANAGED MY A CPO/AFO CERTIFIED OPERATOR

## **NOTE: THIS IS NOT A DIVING POOL**

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**DESIGN GROUP** 

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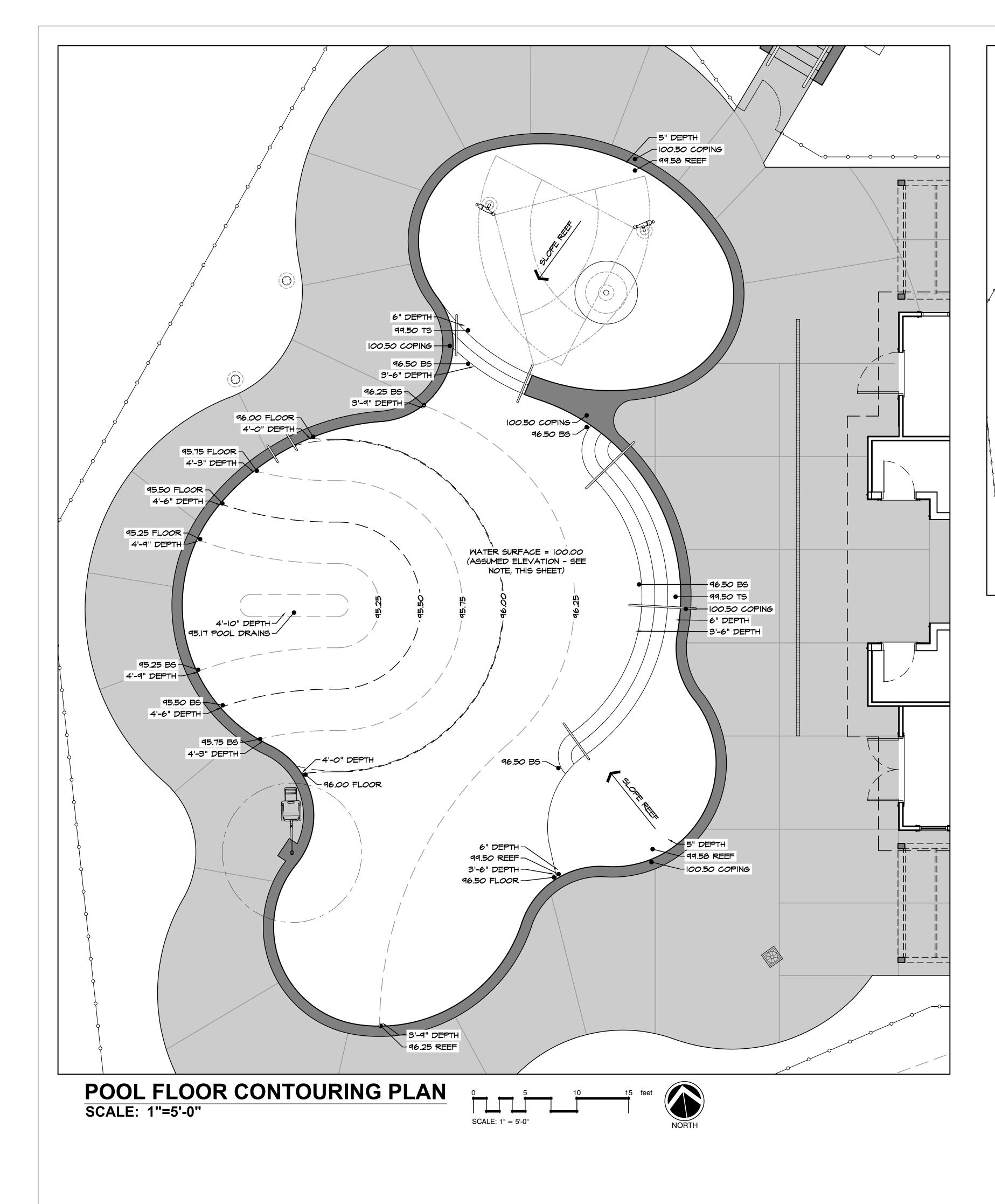
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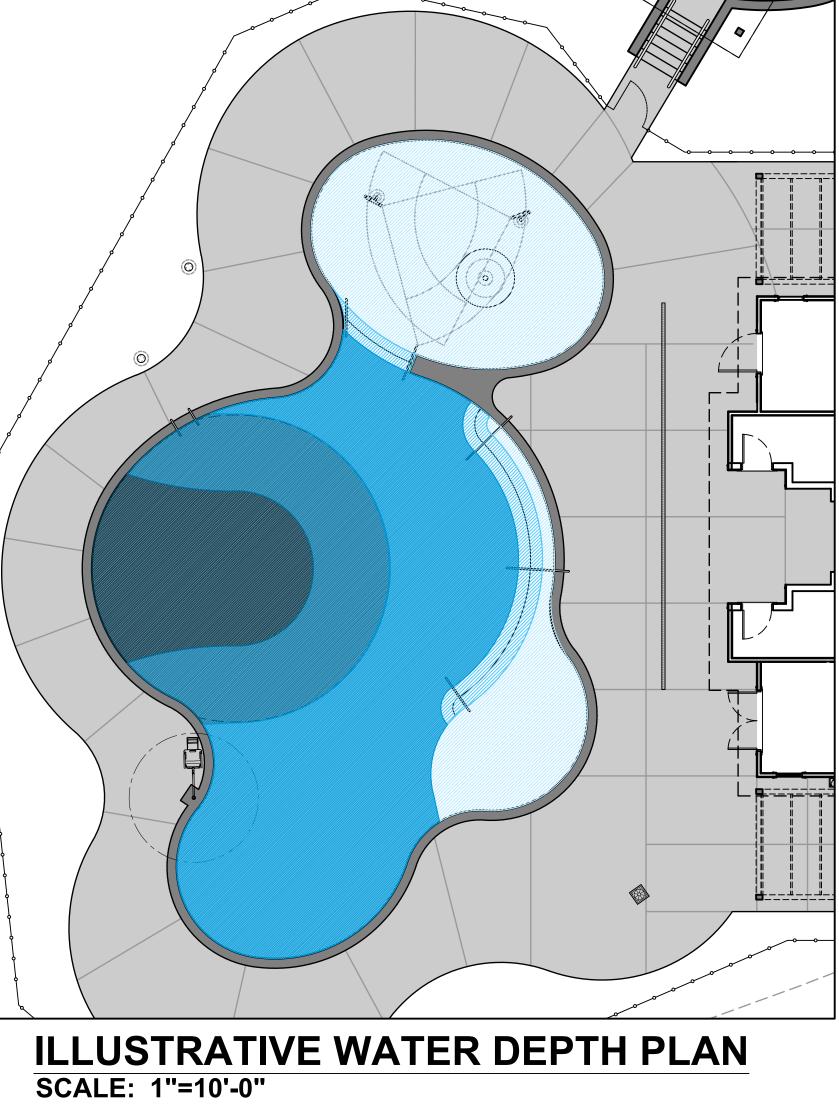
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POOL LAYOUT PLAN

W001





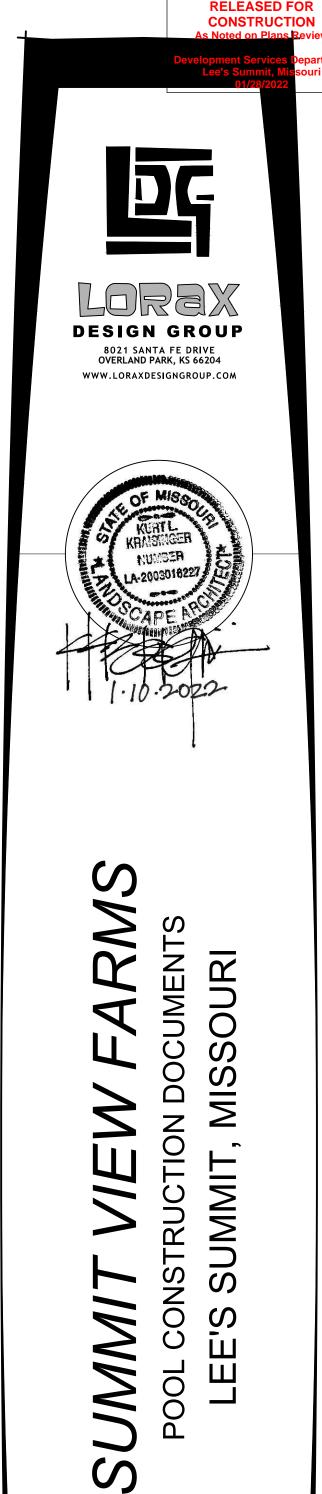
## **POOL WATER DEPTH**

0' - I' WATER DEPTH	4' - 4'-6" WATER DEPTH
I' - 3'-6" WATER DEPTH	4'-6"+ WATER DEPTH
3'-6" - 4' 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

-6"+ WATER DEPTH



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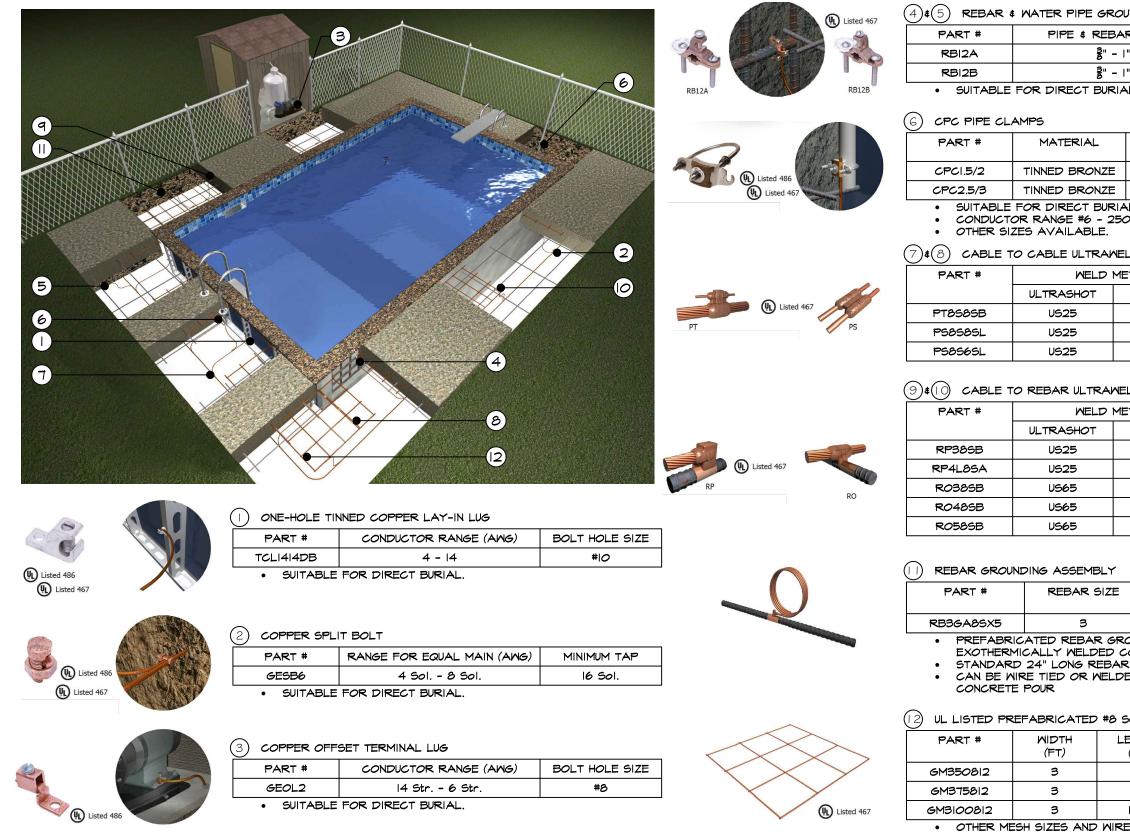
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POOL FLOOR CONTOURING

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## **TYPICAL POOL GROUNDING & BONDING VIGNETTE**

### **BONDING LOOP GENERAL NOTES**

EQUIPMENT BONDING NOTES I. ALL METALLIC ITEMS TO BE BONDED AT PUMP ROOM PER NEC 280.26.

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

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

IO. 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

AMG.

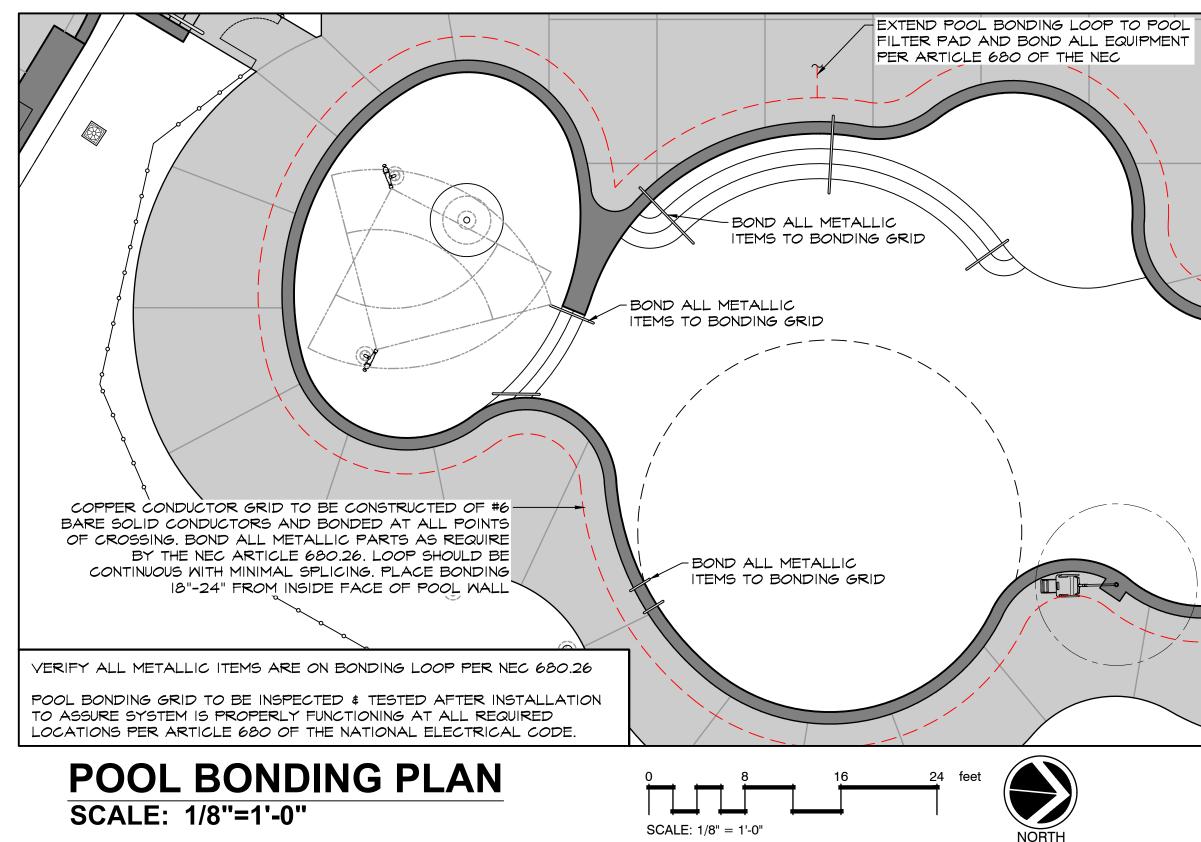
13. BONDING LOOP AROUND POOL TO BE AS CONTINUOUS AS POSSIBLE WITH A MINIMUM NUMBER OF SPLICES

14. CONNECTIONS FROM POOL BONDING LOOP CONDUCTOR TO OTHER BONDED ITEMS CAN BE MADE WITH A MINIMUM #8 AWG SOLID COPPER

15. ALL BONDING CONNECTIONS TO BE MADE WITH DEVICES 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 BONDING THE COPPER BONDING LOOP TO THE REINFORCEMENT STEEL.

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



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

PIPE & REBAR RANGE	CONDUCTOR RANGE (AWG)
<b>≫</b> " –  "	10 Sol 2 Str.
₿" – I"	10 Sol 2 Str.
FOR DIRECT BURIAL.	
MPG	

TECHNICAL NOTES:

ELECTRODES

PROVIDED

\*680.26 EQUIPOTENTIAL BONDING \* (SUMMARIZED)

AND SHALL COMPLY WITH (b)(1) THROUGH (b)(4).

THE OUTER CONTOUR OF THE POOL SHELL.

BONDED IN ACCORDANCE WITH 680.26(B)(I)(a).

BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET:

WATER ODYSSEY TOUCH &

GO SWITCH

LIGHTING REQUIREMENTS

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

**POOL ELECTRICAL PLAN** 

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

WATT PER POOL SF REQUIRED

2,750 SF POOL = 1,375 WATTS REQUIRED

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

3,330 TOTAL EQUIVALENT WATTS PROVIDED

EMERGENCY OFF SWITCH

(3) ONLY LISTED SPLICES SHALL BE PERMITTED

ACCORDANCE WITH 250.8 OR APPROVED MEANS.

INSTALLED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA.

(A) PERFORMANCE. THE EQUIPOTENTIAL BONDING REQUIRED BY THIS SECTION SHALL BE

BONDED TOGETHER USING SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE,

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

PNEUMATICALLY APPLIED OR SPRAYED CONCRETE, AND CONCRETE BLOCK WITH PAINTED

(a) STRUCTURAL REINFORCING STEEL. UNENCAPSULATED STRUCTURAL REINFORCING

(b) COPPER CONDUCTOR GRID. A COPPER CONDUCTOR GRID SHALL BE PROVIDED

(1) BE CONSTRUCTED OF MINIMUM & AWG BARE SOLID COPPER CONDUCTORS

(3) BE ARRANGE DIN A 300mm (12in) BY 300mm (12in) NETWORK OF CONDUCTORS

(4) BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 150mm (6in) FROM

PLASTERED COATINGS SHALL ALL BE CONSIDERED CONDUCTIVE MATERIALS DUE TO WATER PERMEABILITY AND POROSITY. VINYL LINERS AND FIBERGLASS COMPOSITE

STEEL SHALL BE BONDED TOGETHER BY STEEL TIE WIRES OR THE EQUIVALENT. WHERE

COPPER CONDUCTOR GRID SHALL BE INSTALLED IN ACCORDANCE WITH 680.26(B)(I)(b)

BONDED TO EACH OTHER AT ALL POINTS OF CROSSING. THE BONDING SHALL BE IN

(2) PERIMETER SURFACES. THE PERIMETER SURFACE SHALL EXTEND FOR Im (31t)

(4) POINTS UNIFORMLY SPACED AROUND THE PERIMETER OF THE POOL. FOR

IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 100mm

HORIZONTALLY BEYOND THE INSIDE WALLS OF THE POOL AND SHALL INCLUDE UNPAVED

SURFACES AS WELL AS POURED CONCRETE SURFACES AND OTHER TYPES OF PAVING.

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

(a) STRUCTURAL REINFORCING STEEL. STRUCTURAL REINFORCING STEEL SHALL BE

OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL

(b) ALTERNATE MEANS. WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE

(I) AT LEAST ONE MINIMUM & AWG BARE SOLID COPPER CONDUCTOR SHALL BE

(2) THE CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE

PERIMETER SURFACES LESS THAN IM (3ft) SEPARATED BY A PERMANENT WALL OR

NONCONDUCTIVE POOL SHELLS, BONDING AT FOUR POINTS SHALL NOT BE REQUIRED.

STRUCTURAL REINFORCING STEEL IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A

(B) BONDED PARTS. THE PARTS SPECIFIED IN 680.26(B)(I) THROUGH (B)(7) SHALL BE

NOT SMALLER THAN & AWG OR WITH RIGID METAL CONDUIT OF BRASS OR OTHER

BE REQUIRED OR ATTACHED TO REMOTE PANELBOARDS, SERVICE EQUIPMENT, OR

(I) CONDUCTIVE POOL SHELLS. BONDING TO CONDUCTIVE POOL SHELLS SHALL BE

PROVIDED AS SPECIFIED IN 680.26(B)(1)(a) OR (B)(1)(b). POURED CONCRETE,

SHELLS SHALL BE CONSIDERED TO BE NONCONDUCTIVE MATERIALS.

(2) CONFORM TO THE CONTOUR OF THE POOL

MATERIAL	NOM. PIPE SIZE RANGE	PIPE OUTSIDE DIAMETER
TINNED BRONZE	1.5" - 2"	I <b>" -</b> 2.4"
TINNED BRONZE	2.5" - 3"	2.25" - 3.5"
OR DIRECT BURIA	<u>.</u>	

· CONDUCTOR RANGE #6 - 250 MCM.

CABLE ULTRAWELD EXOTHERMIC CONNECTION MOLDS					
WELD	METAL	REQUIRED HANDLE			
ULTRASHOT	NUMTUBE				
US25	NUMTUBE25	MHI			
US25	NUMTUBE25	MH3 (INCLUDED)			
11625	NUMTURE25				

US25 NUMTUBE25 MH3 (INCLUDED,

(9)  $\epsilon(10)$  cable to rebar ultraweld exothermic connection molds

WELD	METAL	REQUIRED	PACKING
ULTRASHOT	NUMTUBE	HANDLE	MAT'L #
US25	NUMTUBE25	MHI	WRPSLV
US25	NUMTUBE25	INCLUDED	CERPMI
US65	NUMTUBE65	MHI	WRPSLV
US65	NUMTUBE65	MHI	WRPSLV
US65	NUMTUBE65	MHI	WRPSLV

	REBAR SIZE	CONDUCTOR TYPE (AWG)	CONDUCTOR LENGTH (FT)
	э	8 Sol.	5
-	ATED REBAR CROW	DING AGGEMBLY MI	<b>T</b> LL

PREFABRICATED REBAR GROUNDING ASSEMBLY WITH EXOTHERMICALLY WELDED CONNECTION.

CAN BE WIRE TIED OR WELDED CAGE PRIOR TO

(12) UL LISTED PREFABRICATED #8 SOLID COPPER GROUND MESH CONDUCTOR APPROX. WT. WIDTH LENGTH (FT) (FT) (LBS) SPACING (IN) 32 50 3 12

з	75	12	42
з	100	12	51
SH SIZES AND	WIRE GAUGES	AVAILABLE	
TC			

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

## **POOL GROUNDING & BONDING TECHNICAL NOTES**

(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)(1)(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

BE REQUIRED TO BONDED.

(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 SCREWS THAT ENGAGE NOT LESS THAN TWO THREADS IN THE ENCLOSURE

(7) CONNECTIONS THAT ARE PART OF A LISTED ASSEMBLY

#### (8) OTHER LISTED MEANS

POOL EQUIPMENT ROOM, WIRE TO BE

PER MANUFACTURER'S GUIDELINES

= PENTAIR COLOR-CHANGING

GLOBRITE LIGHT, TYP OF 7

TOTAL. (190 W EQUIVALENT)

- PENTAIR COLOR-CHANGING INTELLIBRITE LIGHT, TYP

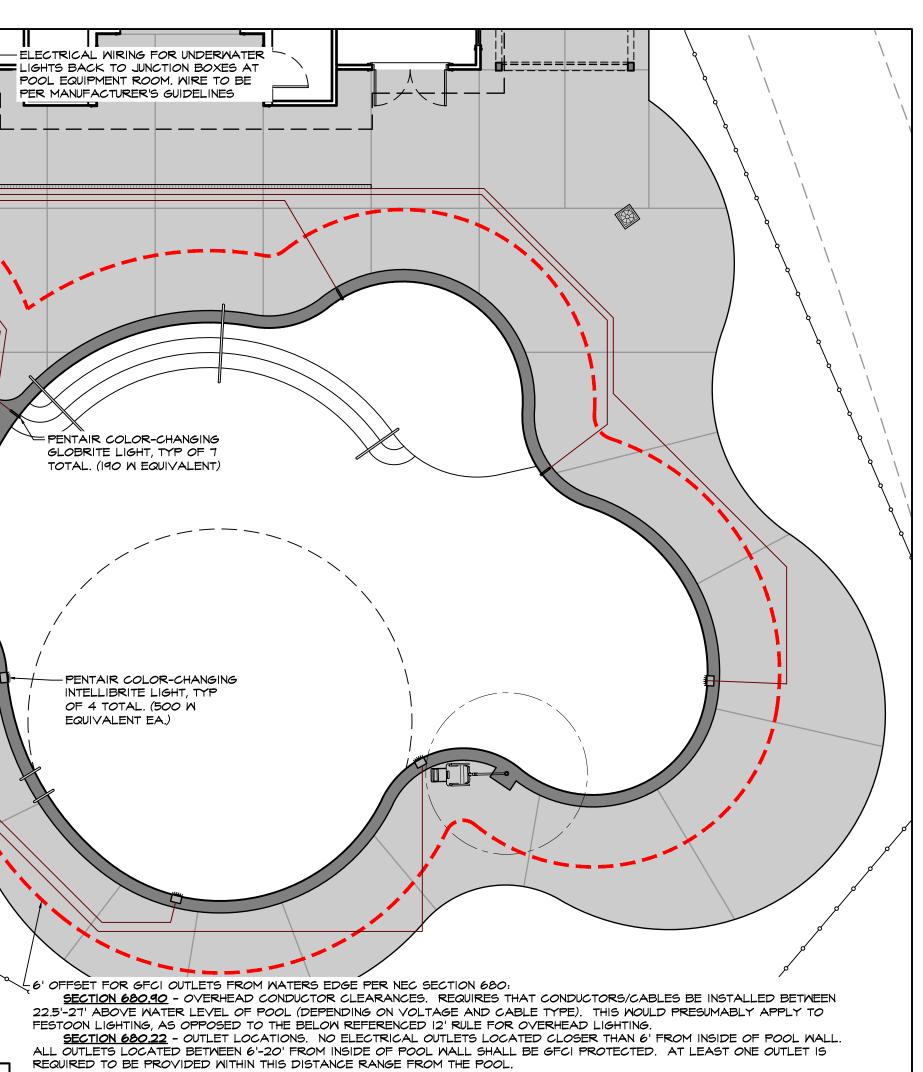
SCALE: 1/8" = 1'-0"

OF 4 TOTAL. (500 W EQUIVALENT EA.)

(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



SECTION 680.22(B)(1) - ANY LUMINAIRE INSTALLED ABOVE THE POOL OR WITHIN 5' OF THE INSIDE WALL OF THE POOL SHALL BE NSTALLED AT A HEIGHT OF 12' ABOVE THE POOL WATER LEVEL. SECTION 680.22(B)(6) - LISTED LOW-VOLTAGE LUMINAIRES ARE PERMITTED CLOSER THAN 5' FROM THE INSIDE WALLS OF THE POOL PROVIDED THEY ARE SUPPLIED BY A LISTED TRANSFORMER OR POWER SUPPLY THAT IS SWIMMING POOL AND SPA RATED.

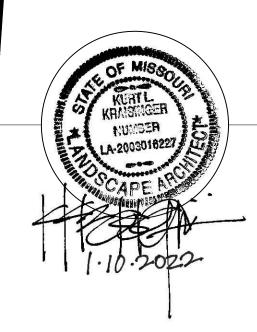
SECTION 680.22(B)(4) - LINE VOLTAGE LUMINAIRES OR LIGHTING OUTLETS INSTALLED BETWEEN 5'-10' FROM THE INSIDE WALLS OF THE POOL MUST BE GFCI PROTECTED

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



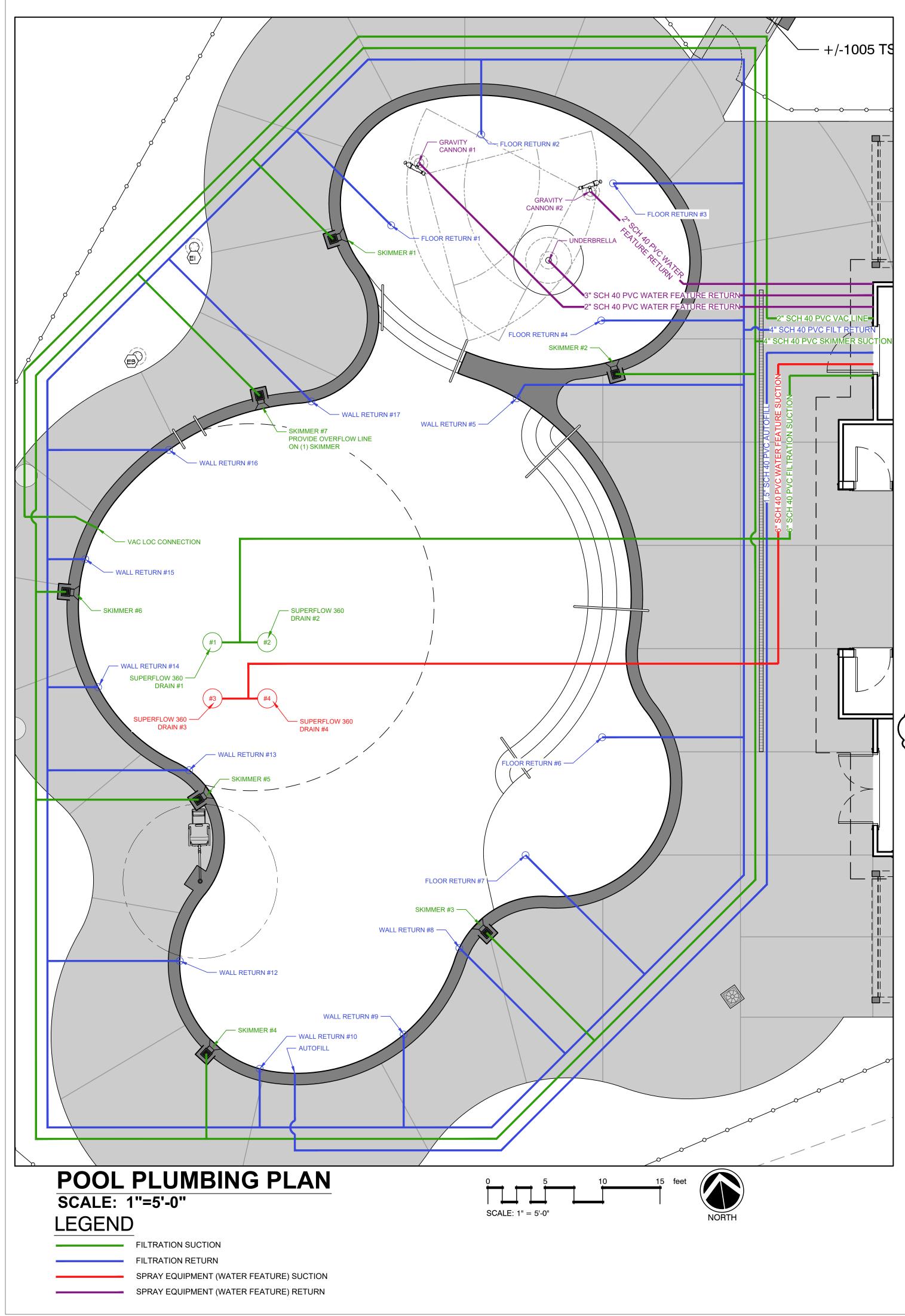
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**RELEASED FOR CONSTRUCTION** 



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## HYDRAULICS NOTES

SWIMMING POOL FILTRATION MIN POOL DEPTH 6" (AT REEF), 3'-6" (IN POOL) 4-10" MAX POOL DEPTH 2,750 SF POOL SURFACE AREA 60,416 GAL. POOL VOLUME POOL PERIMETER 250 LF 6-HOUR FILTRATION 168 GPM TURNOVER RATE TOTAL DYNAMIC +/-45 HEAD (TDH) SWIMMING POOL SKIMMERS SWIMMING POOL RETURNS 16 DUAL VGB SUPERFLO 360 PEBBLE TOP DRAINS SWIMMING POOL DRAINS SWIMMING POOL FILTRATION PENTAIR WHISPERFLO XF VS 5-HP PUMP PUMP SWIMMING POOL FILTER DUAL PENTAIR TR-140C SAND FILTERS EFFECTIVE FILTRATION AREA 14.12 SF FILTRATION RATE 11.90 GPM/SF SWIMMING POOL HEATER PENTAIR ETi400 NATURAL GAS HEATER CHEMICAL CONTROLLER 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 300'
- 400,000 BTU NATURAL GAS FOR HEATERS
- 3. 1.5" FRESH WATER LINE (WITH BACKFLOW PREVENER) FOR POOL AUTOFILL (RE: MEP)
- 4. 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.
- 6. 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 9.
- 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
- PROVIDE CARBON MONOXIDE DETECTOR IN EQUIPMENT ROOM PROVIDE NFPA 704 SIGNAGE AT DOOR TO EQUIPMENT ROOM.
- PROVIDE SHELVES IN CHEMICAL STORAGE AREA SO CHEMICALS MAY BE STORED ABOVE 14 GROUND LEVEL.

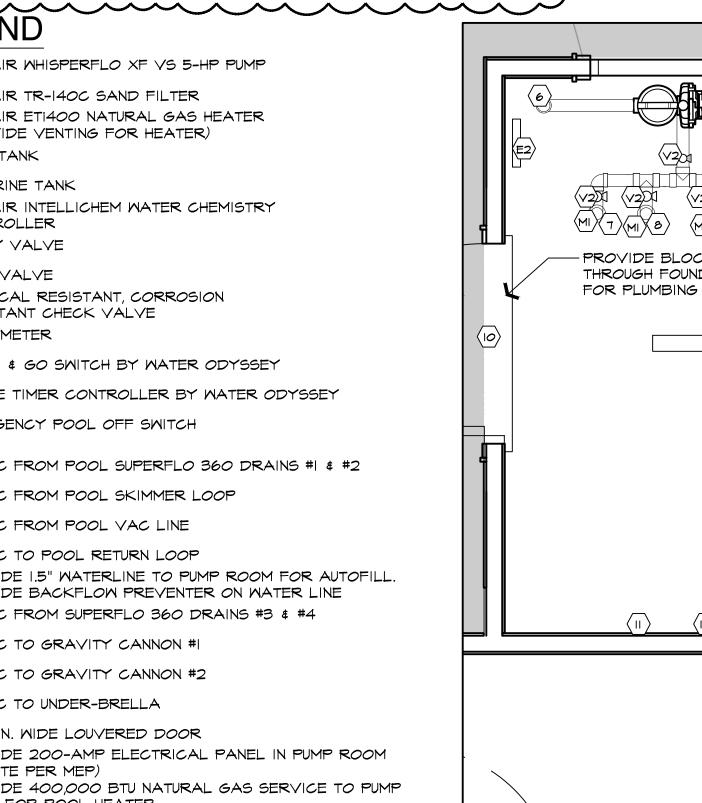
### LEGEND

 $\langle P2 \rangle$  PENTAIR WHISPERFLO XF VS 5-HP PUMP

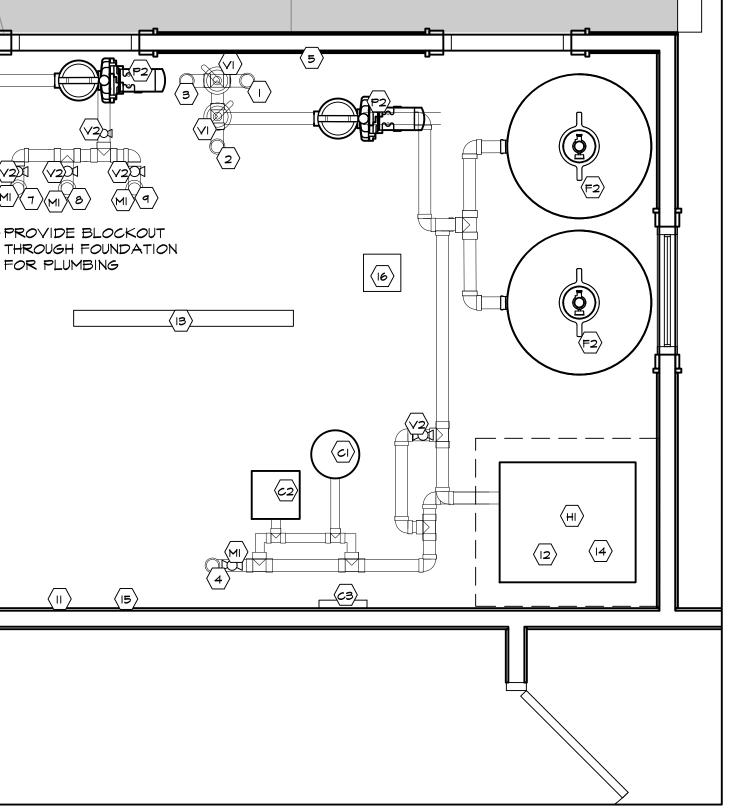
- $\langle F_2 \rangle$  PENTAIR TR-140C SAND FILTER
- PENTAIR ETI400 NATURAL GAS HEATER
- (PROVIDE VENTING FOR HEATER)
- (CI) ACID TANK
- C2 CHLORINE TANK
- PENTAIR INTELLICHEM WATER CHEMISTRY
- CONTROLLER  $\langle v_{I} \rangle$  3-WAY VALVE
- $\langle v_2 \rangle$  BALL VALVE
- CHEMICAL RESISTANT, CORROSION RESISTANT CHECK VALVE
- $\langle MI \rangle$  FLOW METER
- $\left< EI \right>$  Touch & GO switch by water odyssey
- $\langle E_2 \rangle$  single timer controller by water odyssey
- $\langle EB \rangle$  Emergency POOL off Switch
- $\langle | \rangle$ 6" PVC FROM POOL SUPERFLO 360 DRAINS #1 & #2
- $\langle 2 \rangle$  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.
- (5) PROVIDE BACKFLOW PREVENTER ON WATER LINE  $\langle 6 \rangle$  6" PVC FROM SUPERFLO 360 DRAINS #3 & #4
- $\langle 7 \rangle$  2" PVC TO GRAVITY CANNON #1
- $\langle s \rangle$  2" PVC TO GRAVITY CANNON #2
- $\langle q \rangle$  3" PVC TO UNDER-BRELLA
- $\langle 10 \rangle$  42" MIN. WIDE LOUVERED DOOR
- PROVIDE 200-AMP ELECTRICAL PANEL IN PUMP ROOM  $\langle \parallel \rangle$  (locate per mep)

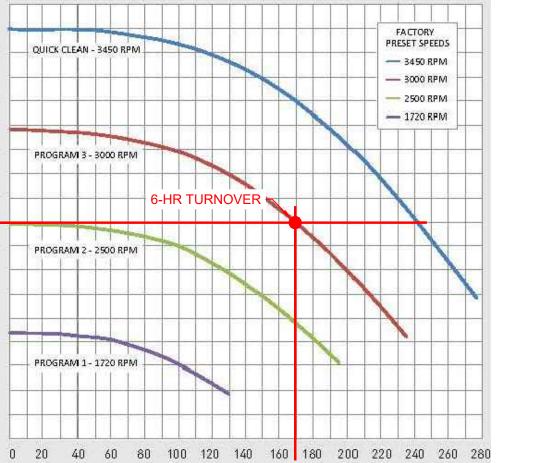
- $\langle 15 \rangle$  PROVIDE MECHANICAL VENTILATION FOR EQUIPMENT ROOM BACKWASH LINE (RE: MEP). SEE POOL EQUIPMENT ROOM BROVISIONS NOTE #5, THIS SHEET
- SCALE: 1/2"=1'-0"

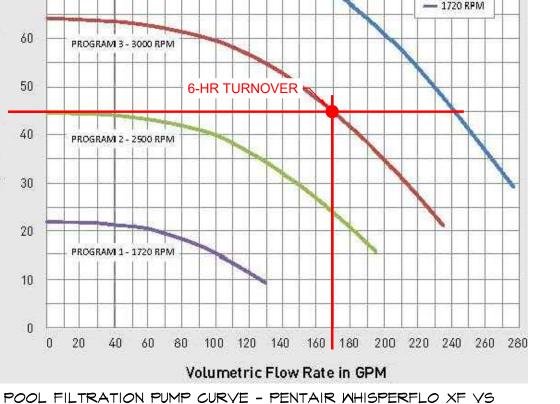
WATER FEATURE PLUMBING UNDER-BRELLA DESIGN FLOW RATE GRAVITY CANNON DESIGN FLOW RATE TOTAL WATER FEATURE FLOW RATE WATER FEATURE PUMP

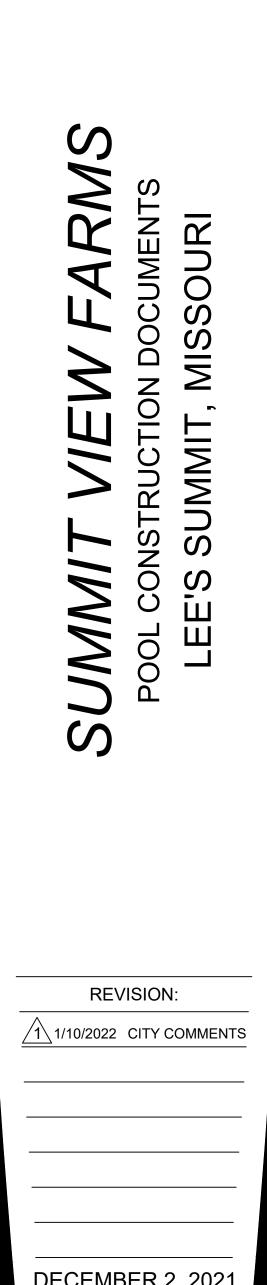


## EQUIPMENT ROOM PLAN









RELEASED FOR CONSTRUCTION s Noted on Plans R

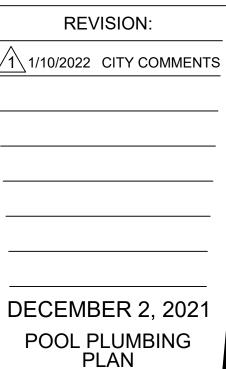
**DESIGN GROUP** 

8021 SANTA FE DRIVE OVERLAND PARK, KS 66204

WWW.LORAXDESIGNGROUP.COM

KURT L. KRAISINGEF

Lic. No. 406001746 1110.2022



W004

+/-150 GPM 20 GPM EA. (40 GPM TOTAL) +/-190 GPM PENTAIR INTELLIFLO XF PUMP

### **GENERAL POOL STRUCTURAL NOTES**

#### **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.

1.1.3 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:

I.I.3.I 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.

1.6 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

1.8 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.

I.IO 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 HP270N WITH AOS OF 40, MIRAFI FW700 WITH AN AOS OF 70, OR AN APPROVED EQUAL.

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 CI50, 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 +/-1.5" LONG SYNTHETIC MACRO FIBER REINFORCEMENT COMPLYING WITH ASTM CIIE. 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 45000 BY GRACE 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.

3.3.1 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.

4.8 ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 8" THICK 3.5.5 REBOUND, TRIMMING, AND LOOSE DEBRIS SHALL BE REMOVED LOOSE LIFTS AND BE COMPACTED TO A MINIMUM OF 95 PERCENT OF FROM THE STRUCTURE AND SHALL NOT BE USED IN ANY MANNER THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM WITHIN THE STRUCTURE OR VESSEL D-698, STANDARD PROCTOR PROCEDURES.

#### 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 METHOD.

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:

3.8.1 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 CI43 FOR EACH SET OF TEST CYLINDERS TAKEN.

3.8.1.1 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.

3.8.3 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

3.6.4 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.

3.8.5 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

4.4.1 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.

4.9 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.

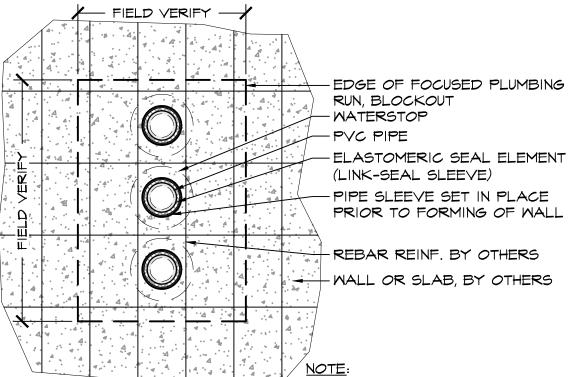
4.11 THE CONTRACTOR SHALL COORDINATE WITH A GEOTECHNICAL ENGINEER TO VERIFY THAT THERE ARE NOT ANY UNDERLYING SUBSTRATES THAT COULD CREATE INSTABILITIES OR SETTLEMENTS, E.G. CAVES, MINES, BURIED TANKS, OR DEFORMITIES DUE TO KARST TOPOGRAPHY.

TYP. BLOCKOUT OPTION - FIELD VERIFY -----

WATERSTOP PVC PIPE

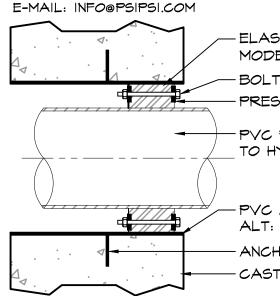
APPLY EPOXY BONDING AGENT TO EDGE OF EXISTING BLOCKOUT NOTE: FORM WALL OR SLAB W/ BLOCKOUT THEN RUN PLUMBING AFTER

### TYP. BLOCKOUT OPTION 2



SET PIPE SLEEVING INTEGRAL W/ WALL OR SLAB REINFORCING THEN FORM WALL AND CAST CONCRETE

LINK-SEAL& MODULAR SEALS WITH CAST OR CORE DRILLED WALL OPENING MANUFACTURED BY PIPELINE SEAL & INSULATOR, INC. HOUSTON, TEXAS, U.S.A. TEL: 800-423-2410

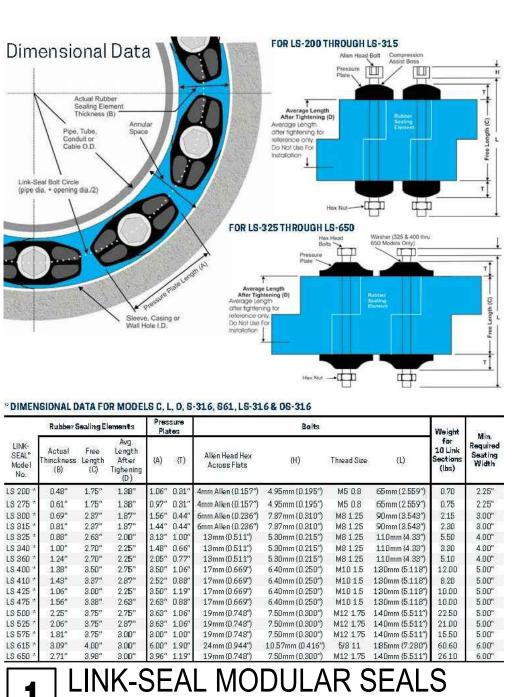


-PVC WALL SLEEVE ALT: CORE DRILLED HOLE - ANCHOR COLLAR/ WATER STOP

PRESSURE PLATE

LINK-SEAL MODULAR SEAL

SCALE: NTS



TO HYDRAULIC PLANS

CAST-IN-PLACE WALL SLAB

CONCRETE INFILL MATCHES WIDTH OF EXIST WALL. CONCRETE TO HAVE MICROFIBER REINF. AT RATE OF DOSAGE PER MFR. INSTRUCTIONS -EXISTING STRUCTURAL WALL OR SLAB CONSTRUCTION +#4x1'-6" BARS @ 12" O.C. 6" ADH EMBED INTO CENTER OF EXIST WALL TYP AROUND PERIMETER

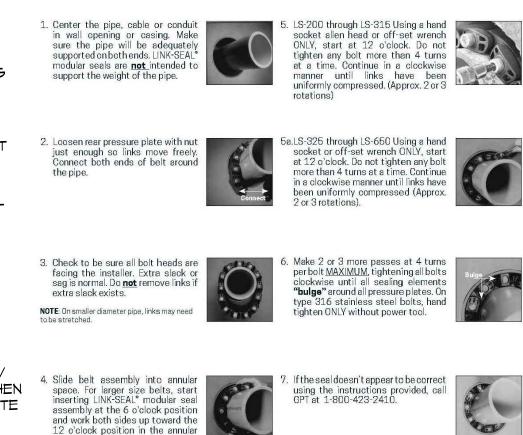
ELASTOMERIC SEAL ELEMENT (LINK-SEAL SLEEVE)

- PIPE SLEEVE #4 BARS @ 12" O.C. E.M.



THIS IS A DIAGRAM SHOWING THE GENERAL PLACEMENT OF PLUMBING AT EACH BLOCKOUT. CONTRACTOR SHALL FIELD VERIFY EXACT POOL PLUMBING PLACEMENT THROUGH WALLS AND STRUCTURAL SLAB.

Installation Techniques - LINK-SEAL<sup>®</sup> Modular Seals



- ELASTOMERIC SEAL ELEMENT LS MODEL (C, L, S-316, O, OS-316, T)

CEN 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<sup>®</sup> Modular Seals

#### ALWAYS WEAR PPE WHEN USING LINK-SEAL' MODULAR SEALS LINK-SEAL\* Modular Seal - Do's

4. Check to make sure pipe is supported properly during

If the seal doesn't appear to be correct using the techniques provided, Call GPT at 1-800-423-2410.

tended to support the weight of the pipe.

backfill operations. NOTE: LINK-SEAL\* modular seals are not

. Make sure pipe is centered.

assist installation.

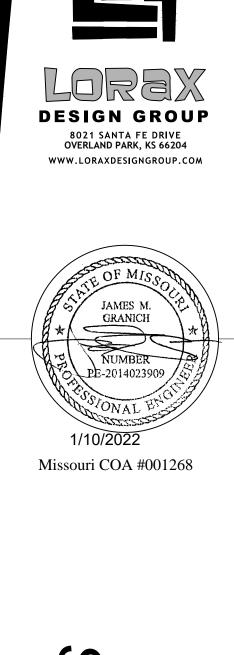
CORRECT

- LINK-SEAL<sup>®</sup> Modular Seal Don'ts . Don't Install the belt with the pressure plates aimed in 2. Install the belt with the pressure plates evenly irregular directions. (Staggered) 2. Don't Install LINK-SEAL® modular seals where weld-3. Install the exact number of links indicated in sizing
  - beads 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) 5. Make sure seal assembly and pipe surfaces are free 5. Do not use power tools on LINK-SEAL\* modular seal
- 316 stainless steel bolts 6. For tight fits, use non-polluting liquid detergent to 6. Don't use grease installing LINK-SEAL\* modular seals.

#### Hand Tools: Review provided chart below. (Tools not vided.) Tools can be purchased from hardware store, provement et ore

LINK-SEAL <sup>®</sup> Model	Tool Size/ Type Req.	Bolt H Typ
LS-200, LS-275	4mm, Allen	
LS-300, LS-315	6mm, Allen	
LS-325, LS-340, LS-360	13mm, Hex	
LS-400, LS-410, LS-425, LS-475	17mm, Hex	
LS-500, LS-525, LS-575	19mm, Hex	6
LS-615	30mm, Hex	
LS-650	19mm, Hex	

Pipe	Actual	CENTURY-LINE" SLEEVE		atual			STEEL SLEEVE		A CONTRACTOR OF A	RCOREBITORIL	725210
Size	0.D.	Mod el	UNK-SEAL <sup>®</sup>	Links	Model	LINK-SEAL®	Per	Hole	LINK-SEAL <sup>®</sup>	Links	
(Nom.)	(Inches)	Number	Size	Per Seal	Number	Size	Seal	I.D.	Size	PerSea	
1/2	0.840	CS 2 *	LS 200 ***	4	WS 2 15 S *	LS 275 and	5	2.000	LS 200 ****	4	
3/4	1.050	CS 3 *	LS 315 ***	4	WS 2 ½ 20 S *	LS 275 and	6	3.000	LS 315 ****	4	
1	1.315	CS 3 *	LS 300 ***	4	WS 2 ½ 20 S *	LS 200 and	5	3.000	LS 300 000	4	
1¼	1.660	CS 3 *	LS 275 ***	7	WS 3 21 S *	LS 275 and	8	3.000	LS 275 000	8	
1½	1.900	CS 3½*	LS 275 ***	8	WS 3 21 S *	LS 200 and	7	4.000	LS 315 ***	6	
2	2.375	CS 4 *	LS 300 ***	6	WS 3 ½ 22 S *	LS 200 and	8	4.000	LS 300 ***	6	
2½	2.875	CS 4 *	LS 200 ***	9	WS 4 23 S *	LS 200 and	9	4.000	LS 200 ****	9	
3	3.500	CS 5 *	LS 300 ***	8	WS 6 28 S *	LS 360 and	7	5.000	LS 300 ****	8	
3½	4.000	CS 6 °	LS 340 ***	10	WS 6 28 S *	LS 340 ***	9	6.000	LS 315 ***	10	
4	4.500	CS 6 °	LS 300 ***	10	WS 6 28 S *	LS 300 ***	10	6.000	LS 300 ***	10	
5	5.563	CS 8 °	LS 360 ***	10	WS 8 32 S *	LS 340 444	13	8.000	LS 340 000	13	
6	6.625	CS 10 °	LS 475 ***	10	WS 10 36 S *	LS 475 444	10	10.000	LS 475 000	10	
8	8.625	CS 12 °	LS 475 ****	12	WS 12 37 S *	LS 475 and	12	12.000	LS 475 2020	12	
10	10.750	CS 14 °	LS 410 ****	15	WS 14 37 S *	LS 425 and	10	14.000	LS 475 2020	14	
12	12.750	CS 16 °	LS 475 ***	17	WS 16 37 S *	LS 425 and	12	16.000	LS 475 and	17	
14	14.000	CS 16 °	LS 340 ***	30	WS 18 37 S *	LS 475 and	18	18.000	LS 575 and	16	
16	16.000	CS 20 °	LS 410 ***	21	WS 20 37 S *	LS 475 ****	21	20.000	LS 575 ***	18	
18	18.000	CS 22 °	LS 340 ***	38	WS 22 37 S *	LS 475 ****	23	22.000	LS 575 ***	20	
20	20.000	CS 25 °	LS 500 ****	18	WS 24 37 S *	LS 475 ****	25	24.000	LS 475 ****	26	
22	22.000	CS 25 °	LS 360 ****	34	WS 26 37 S *	LS 475 ****	28	26.000	LS 575 ****	24	
24	24.000	CC 30 **	LS 500 ****	21	WS 28 37 S *	LS 475 ***	30	28.000	LS 475 mm	31	
26	26.000	CC 30 **	LS 400 ****	23	WS 30 37 S *	LS 400 ***	23	30.000	LS 575 mm	28	
28	28.000	CC 32 **	LS 400 ****	25	WS 32 37 S *	LS 400 and	25	32.000	LS 575 and	30	
30	30.000	CC 36 **	LS 500 ***	26	WS 34 37 S *	LS 400 and	27	34.000	LS 575 and	32	
32	32.000	CC 38 **	LS 500 ****	28	WS 36 37 S *	LS 400 mm	29	36.00D	LS 575 ***	34	
34	34.000	CC 38 **	LS 400 ****	30	WS 40 37 S *	LS 500 mm	29	38.000	LS 575 ***	36	
36	36.000	CC 42 <sup>co</sup>	LS 500 ****	31	WS 42 37 S *	LS 500 ***	31.	40.000	LS 575 ****	38	
42	42.000	CC 48 <sup>co</sup>	LS 500 ****	36	WS 48 37 S *	LS 500 ***	36	46.000	LS 575 ****	44	
48	48.000	CC 54 ***	LS 500 ***	40	WS 53 37 S *	LS 525 ***	40	52.000	LS 575 ****	50	



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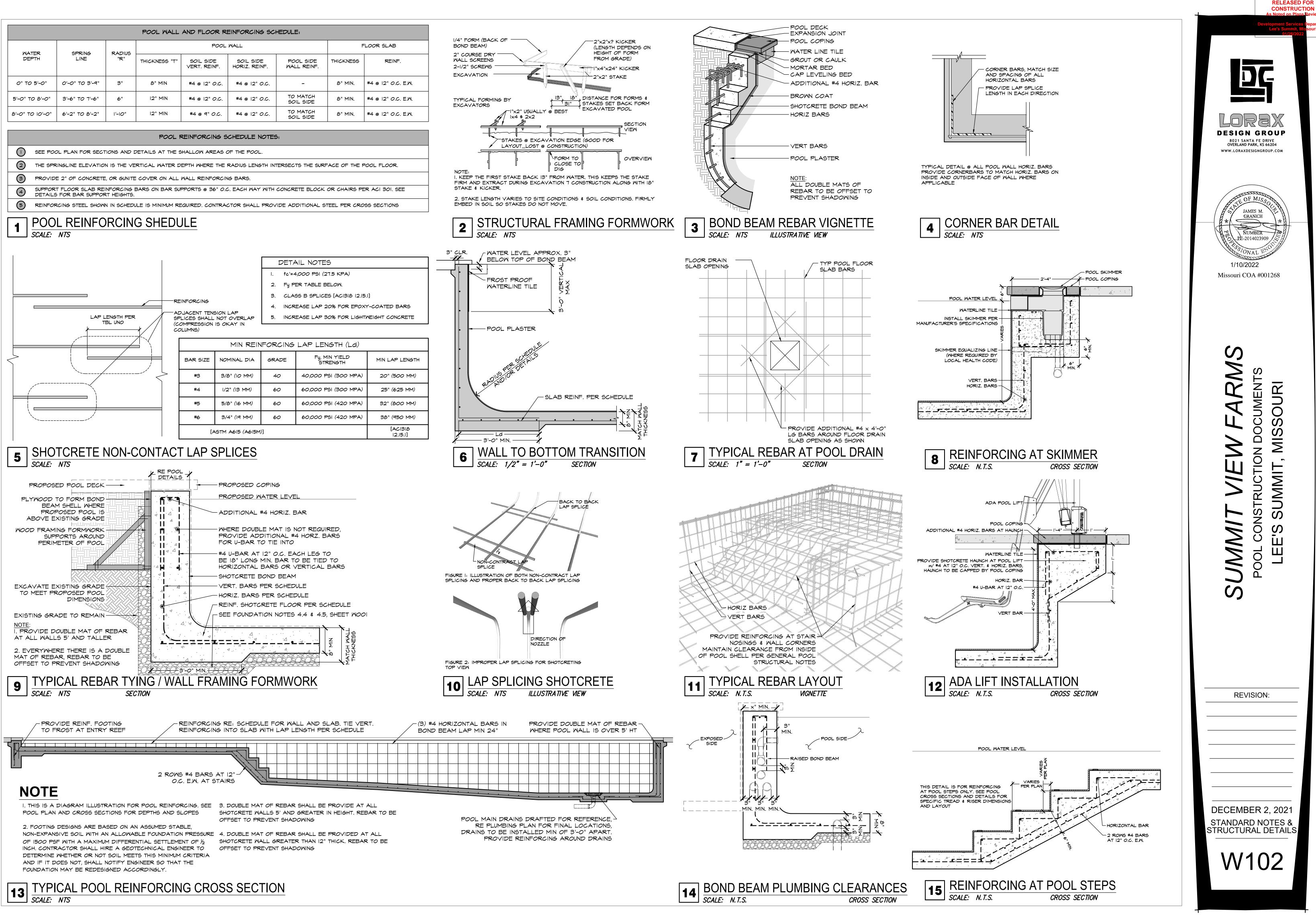
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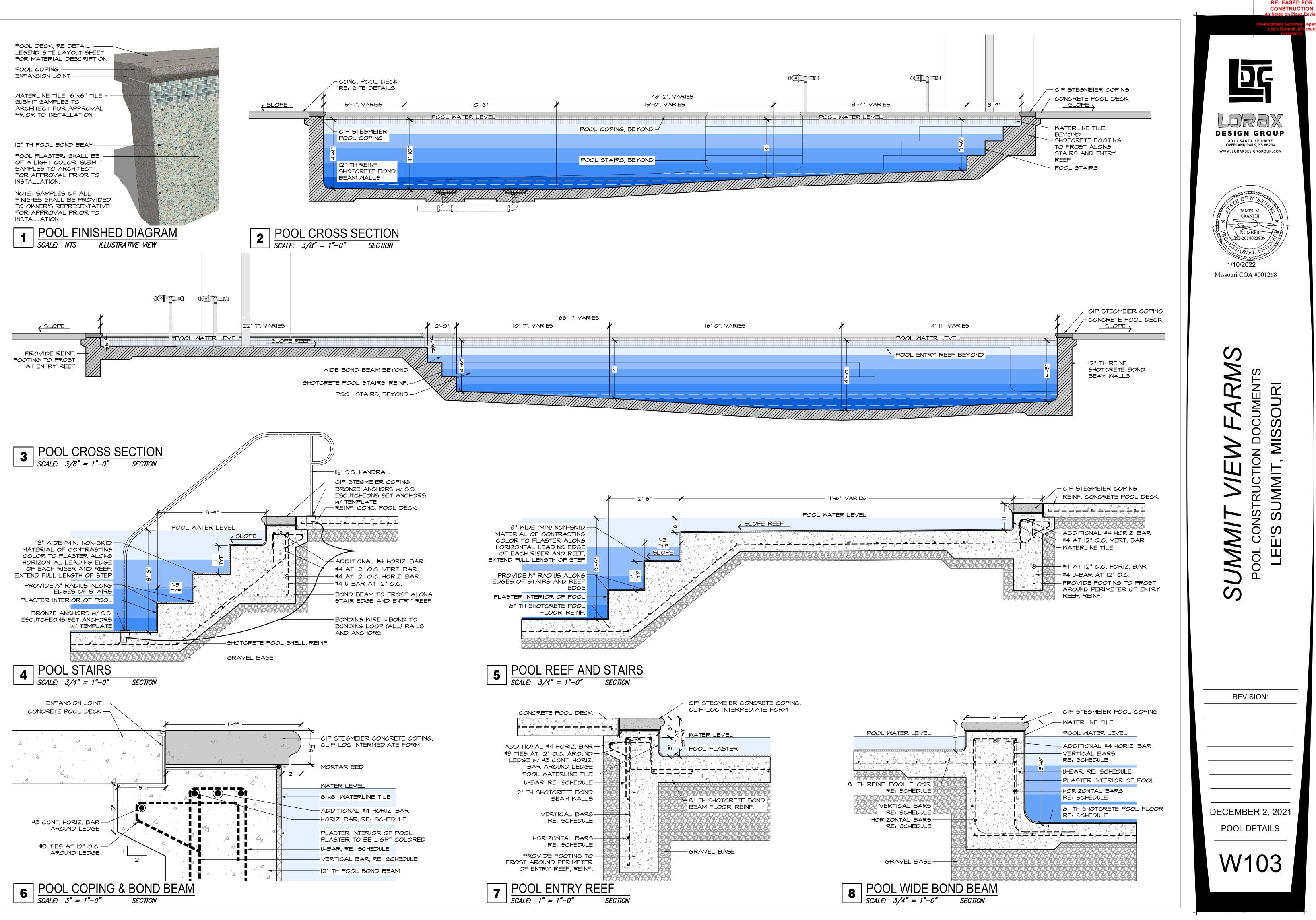
DECEMBER 2, 2021 STANDARD NOTES

**REVISION**:

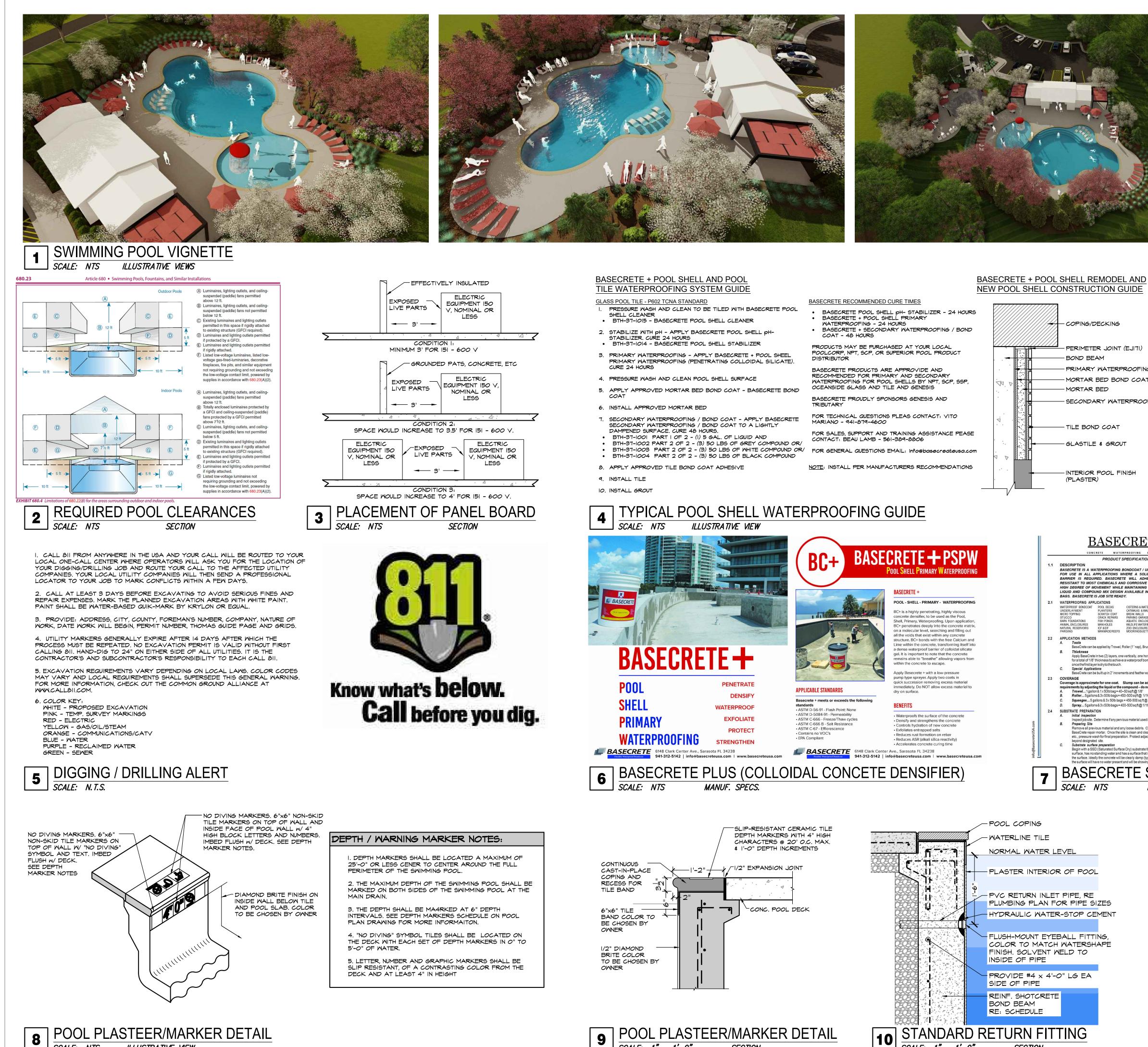
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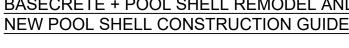
AT STRUCTURAL SLAB & WALL BLOCKOUTS

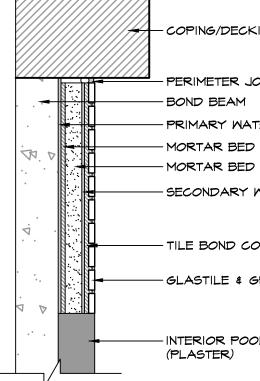




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SCALE:



SCALE: NTS

ILLUSTRATIVE VIEW

POOL PLASTEER/MARKER DETAIL SCALE: 1'' = 1' - 0''SECTION



- COPING/DECKING
- PERIMETER JOINT (EJI7I)
- PRIMARY WATERPROOFING
- MORTAR BED BOND COAT
- SECONDARY WATERPROOFING
- TILE BOND COAT
- GLASTILE & GROUT

WATERPROOFING APPLICATIONS

ANIMAL ENCLOSURES NATURAL RESERVOIRS PARGING

В.

SECTION

Thickness

beyond designated site.

Substrate surface preparation

INTERIOR POOL FINISH

- PRESSURE WASH AND CLEAN POOL SHELL SURFACE WITH BASECRETE POOL SHELL CLEANER • BTH-37-1015 - 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
- 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"×105' REINFORCING MESH • BTH-37-1010 - BASECRETE 12"x150' REINFORCING MESH
- BTH-37-IOII BASECRETE 38"xI50' REINFORCING MESH 6. SECONDARY WATERPROOFING / BOND COAT - APPLY BASECRETE SECONDARY WATERPROOFING / BOND COAT TO A LIGHTLY DAMPENED SURFACE . CURE 48 HOURS
- BTH-37-1001 PART I 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 CONCRETE WATERPROOFING BOND COAT PRODUCT SPECIFICATION

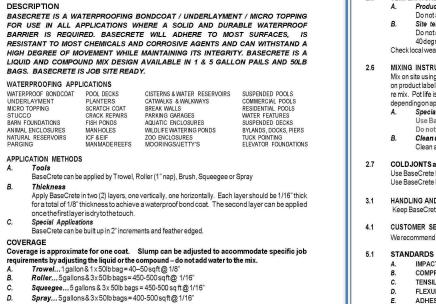
Inspect job site. Determine if any pervious material used is incompatible with BaseCrete. *Preparing Site* 

tc., pressure wash for final preparation. Protect adjacent areas to p

emove 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

Begin with a SSD (Saturated Surface Drv) substrate that is clearly damp below the immediate



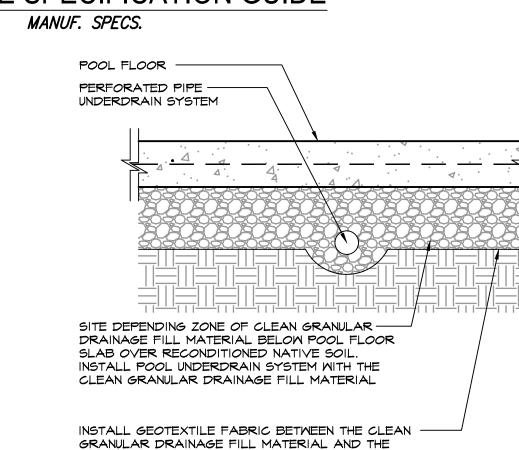
- BASECRETE CONCRETE WATERPROOFING BOND COAT TEMPERATURE & WEATHER FACTORS
- Product limitations Do not allow BaseCrete to freeze or overheat B. Site temperature Do not apply BaseCrete to frozen substrate or in conditions hotter than 105 degrees or colder than 40 dearees Check local weather for temperature variations, precipitation etc that will affect your application MIXING INSTRUCTIONS 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 dependingon application method. A. Special Note se BaseCrete liquid to change consistency of mix o not add water to the mix.
- B. Clean up after mixing Clean all tools and spills im ediately with clean wat COLD JONTS and CRACKS Use BaseCrete Mesh to build rounded coves in corners on all cold joints. Build up with BaseCrete mix.
- Use BaseCrete Mesh to fill in and bridge cracks. HANDLING AND STORAGE
- keep BaseCrete products off the ground. Keep drv and out of direct sun/heat/co CUSTOMER SERVICE 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/7.89MPa SHEAR BOND ADHESION 720 psi/4.96 MPa ASTME96-Vaportransmission ASTMC321 – Bond Strength ASTMC672 – Freeze-Thaw

ASTM d4541.02 – Pull Off Test

#### Surface, has no standing water and has a surface that is showing no signs of a "lift" of water on the surface. Ideally the concrete will be clearly damp (typically much darker than dry concrete) but info@BaseCreteUSA.com the surface will have no water present and will be showing "signs" of drying BASECRETE SPECIFICATION GUIDE SCALE: NTS

revent material from going

8



- RECONDITIONED SOILS BELOW THE DRAINAGE FILL MATERIAL
- TYPICAL UNDERDRAIN DETAIL SCALE: 1'' = 1' - 0''SECTION



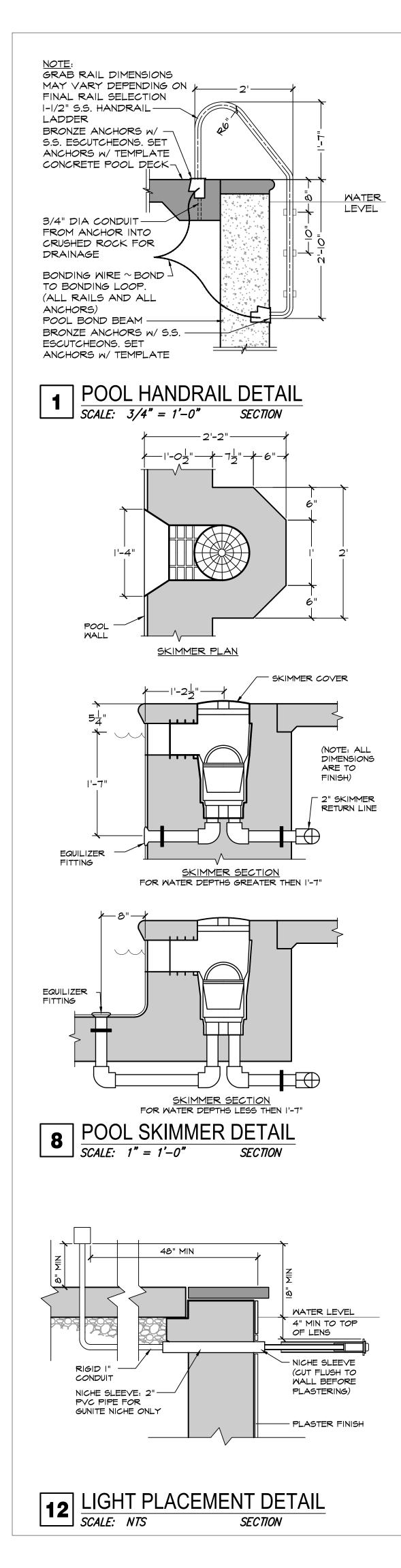
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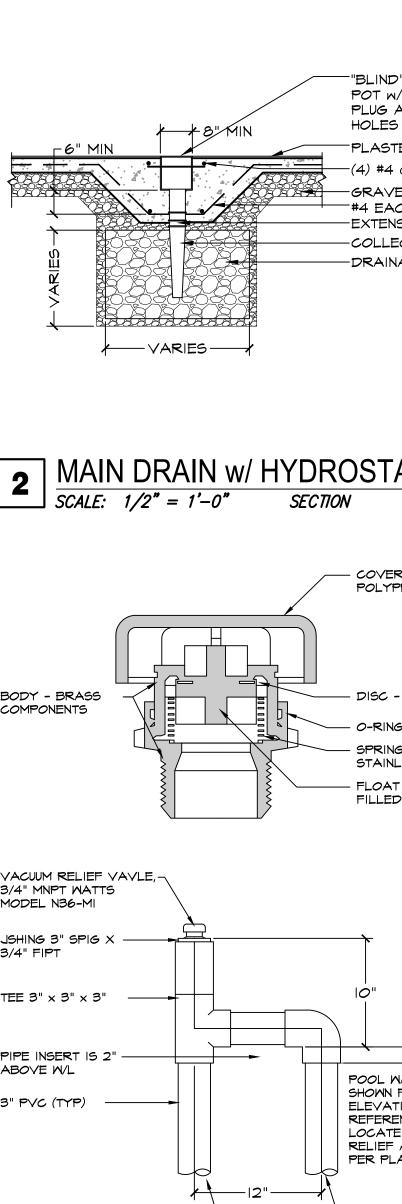
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**REVISION:** 

**DECEMBER 2, 2021** POOL DETAILS

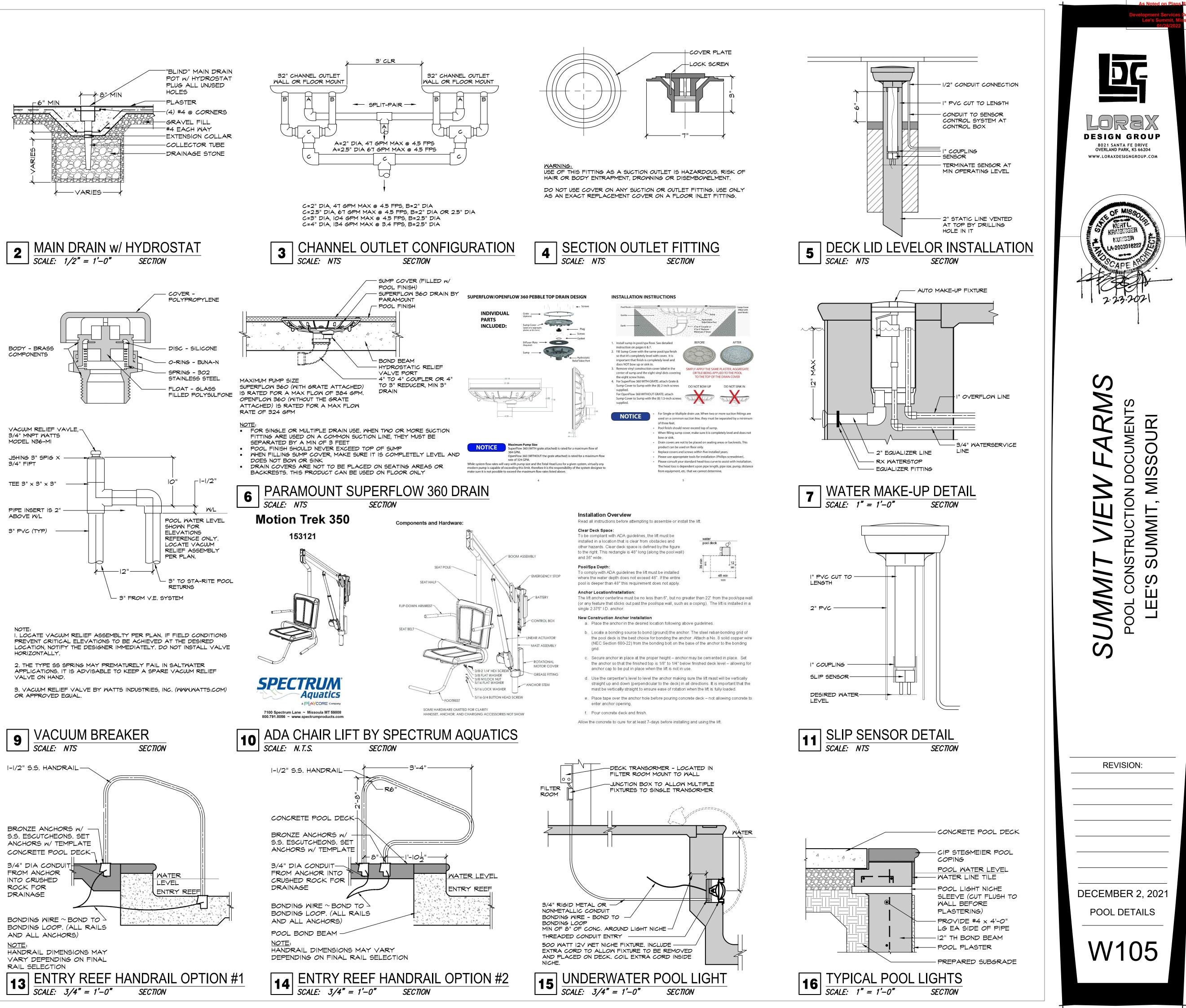
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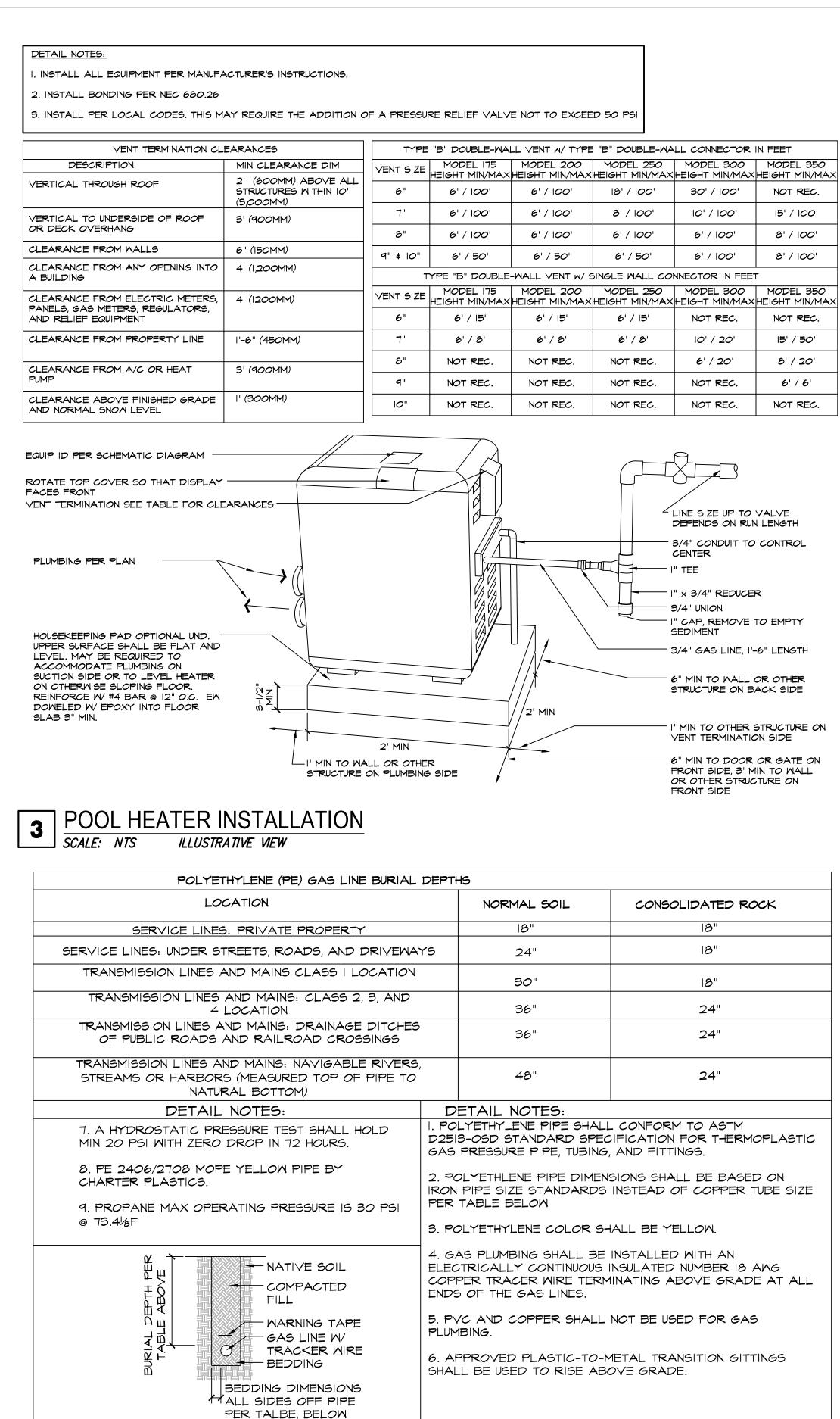


- 3" FROM V.E. SYSTEM

HORIZONTALLY.



**RELEASED FOR** CONSTRUCTION



	POLYET	HYLENE (PE) PIPE	SPECIFICATION	5	
NOMINAL SIZE	OUTSIDE DIA (IPS STD)	MIN WALL THICHNESS	DIA RATIO (DR)	MIN BEND RADIUS	NET GAS MAX PRESS

SIZE	(IPS STD)	THICHNESS	(DR)	RADIUS	MAX PRESS	DIMENSIONS	
/2"	0.830"	0.091"	9.3	18"	81 PS1	2"	
3/4"	1.060"	0.096"		2 "	68 PSI	2"	
"	1.315"	0.120"		27"	68 PSI	2"	
- /4"	1.360"	0.151"		34"	68 PSI	2"	
- /2"	1.900"	0.173"		38"	68 PSI	2"	
2"	2.375"	0.216"		48"	68 PSI	2"	
3"	3.500"	0.304"	11.5	84"	64 PSI	3"	
4"	4.500"	0.333"	13.5	108"	54 PSI	4"	
5"	6.625"	0.491"	13.5	160"	54 PSI	6"	

6 POLYETHELINE GAS PIPING

SCALE: NTS ILLUSTRATIVE VIEW

METAL FLUE COLALR	PART NO.
4 × 6"	77707-0076
4 x 8"	<u> </u>

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.).

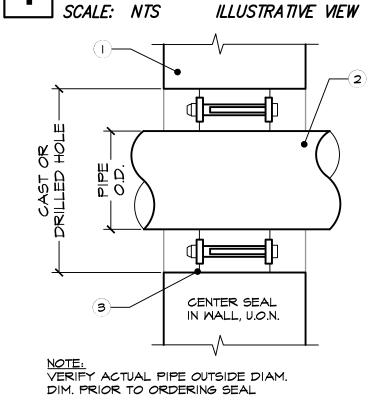
READ "VERTICAL VENTING - NEGATIVE PRESSURE" BEFORE USING THIS TABLE.

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

	TYPE '	B" DOUBLE-WALL VENT WITH T	YPE"B" DOUBLE-WALL CONNEC	CTOR IN FEET (METERS)	
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)	5' (4.6)/ 00' (30.5)
8"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	8' (2.4)/100' (30.5)
9" 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)
	Т	YPE "B" DOUBLE-MALL VENT M	ITH SINGLE-WALL CONNECTOR	N FEET (METERS)	
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)/15' (4.6)	6' (1.8)/15' (4.6)	6' (1.5)/15' (4.6)	NOT REC	NOT REC
7"	6' (1.8)/8' (2.4)	6' (1.8)/8' (2.4)	6' (2.4)/8' (2.4)	IO' (3)/20' (6)	15' (4.6)/50' (15.3)
8"	NOT REC	NOT REC	NOT REC	6' (1.8)/20' (6)	8' (2.4)/20' (6)
<b>q</b> "	NOT REC	NOT REC	NOT REC	NOT REC	6' (1.8)/6' (1.8)
10"	NOT REC				

DETAIL KEYNOTES

### PIPE/WALL SEAL (LINK SEAL)



2. PIPE AS SHOWN ON PLAN AND AS DETAILED ELSEWHERE 3. PIPE SEAL PER "LINK-SEAL" TO SIZE SHOWN ON TABLE - INSTALL PER MFR. REQUIREMENTS

. CAST-IN-PLACE CONCRETE OR MASONRY WALL AS DETAILED ELSEWHERE

PIPE SIZE (NORMAL)	OUTSIDE DIA (IPS O.D.)	CAST OR DRILLED CONC. HOLE INSIDE DIAM. (I.D.)	LINK SEAL PRODUCT #	NO. OF LINKS 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
- /4"	1.660	3.0	LS-275	7
- /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 5
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	0
8"	8.625	2.0	LS-475	<i>O</i>  2
10"	10.75	14.0	LS-400	0
2"	12.75	16.0	LS-400	12
4"	4.00	l6.0	LS-325	15
<b> 6</b> "	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33 <i>.0</i>	LS-500	24
30"	30.00	35.0	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

-FLOOR PENETRATIONS -WALL PENETRATIONS -PIPE SUPPORTS -NOISE AND VIBRATION SUPPRESSION

PIPE AND EQUIPMENT SUPPORT:

PIPE/WALL SEAL (LINK SEAL)

SCALE: NTS ILLUSTRATIVE VIL

٢	1AX FLOW RATES (PER OU	TLET) MOUNTING POSIT	IONS (XXX=COLOR SUF	FIX)	
MODEL	32CDLTxxx (AND 32CDLTFRxxx, 32CDLTVxxx)	32CDAVxxx (AND 32CDAVFRxxx, 32CDAVVxxx, 32CDAVACxxx)	32PDxxx (MIN. 2" PIPE)	32CDBTxxx, 32CDBTFRxxx	32CDPHxxx (AND 32CDPHFRxxx, 32CDPHVxxx, 32CDPHVxxx) (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
WALL	208 GPM @ 2.6 FPS	192 GPM @ 1.2 FPS	136 GPM @ 1.9 FPS	N.A.	N.A.

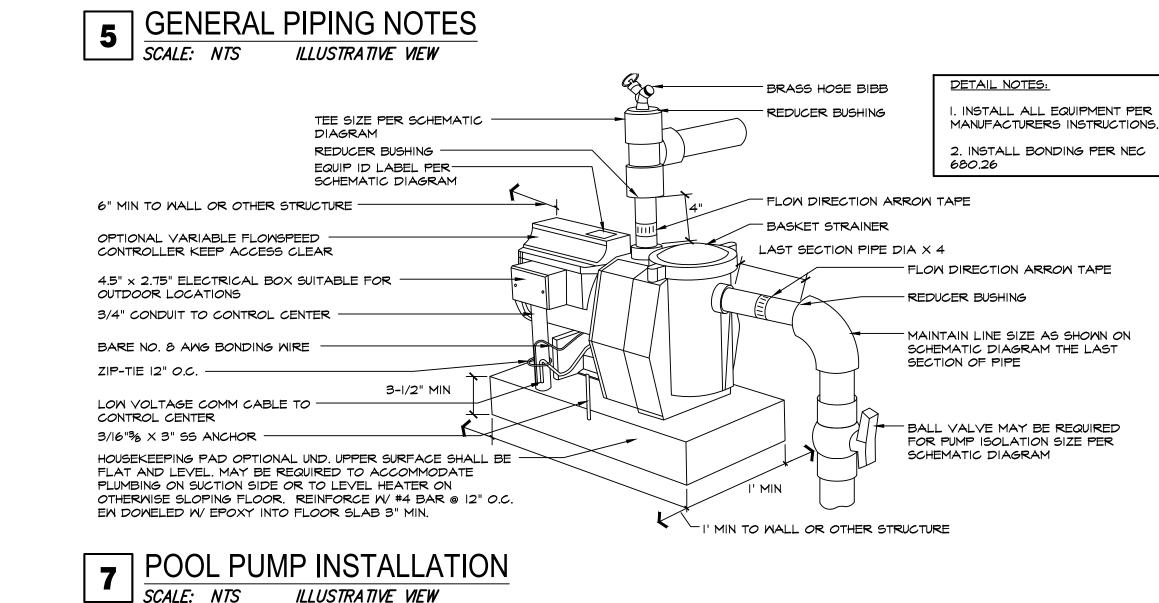
ACCEPTABLE PIPE SIZE FOR MAXIMUM RECOMMENDED SYSTEM FLOW RATE PER APSP-7 (6FEET/SECOND IN THE BRANCH LINE)				
PIPE SIZE	ا <mark>1</mark> 2	2"	2 <u>1</u> "	3"
FLOW RATE IN GPM	45	80	110	160

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 WATER VELOCITY, COMPLY WITH THE CODE. SEE THE CHART ABOVE FOR INFORMATION ON PIPE SIZE FLOW RATINGS AT 6 FEET PER SECOND.



NOT REC. 15' / 1*00*' 8' / 100'

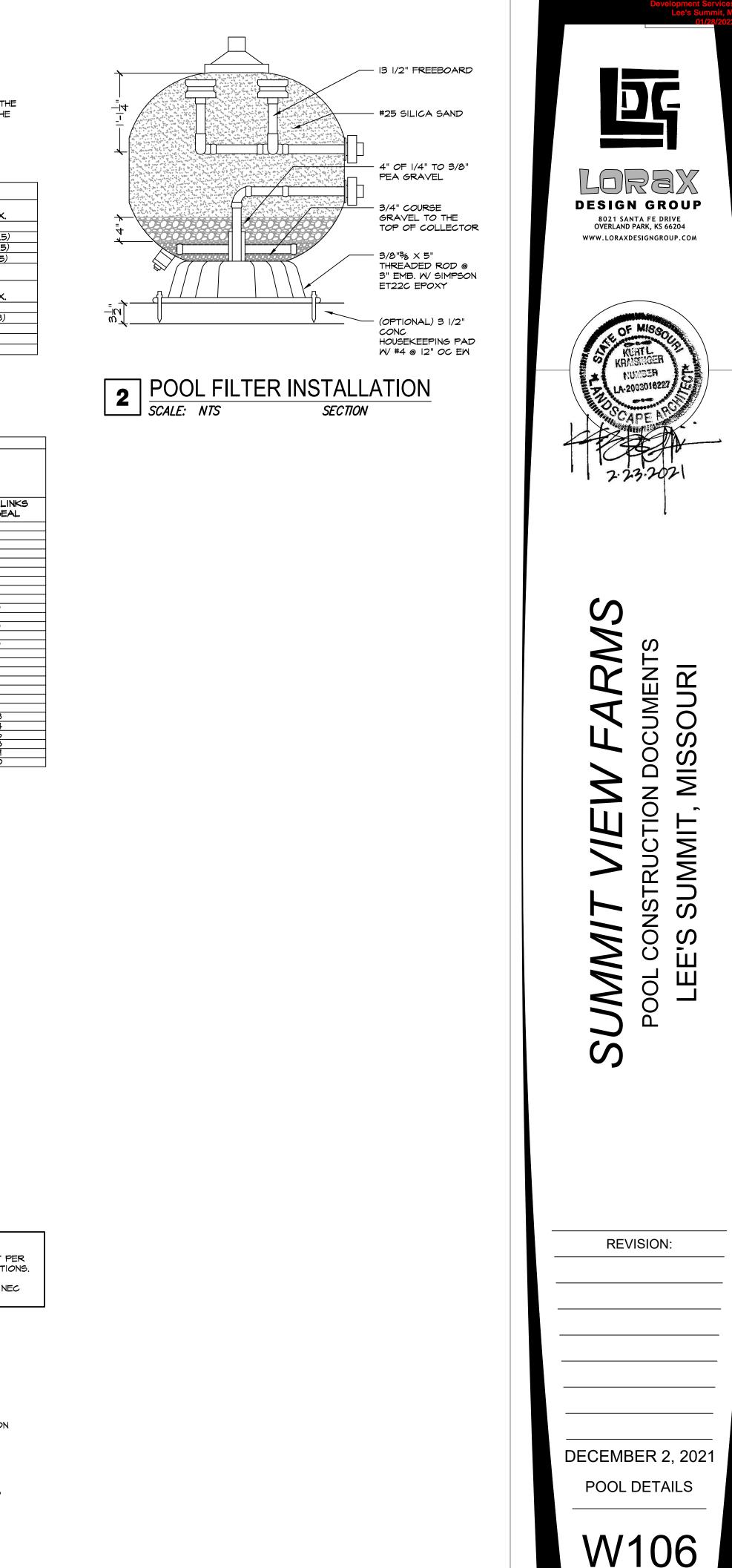
8' / 100'

NOT REC.

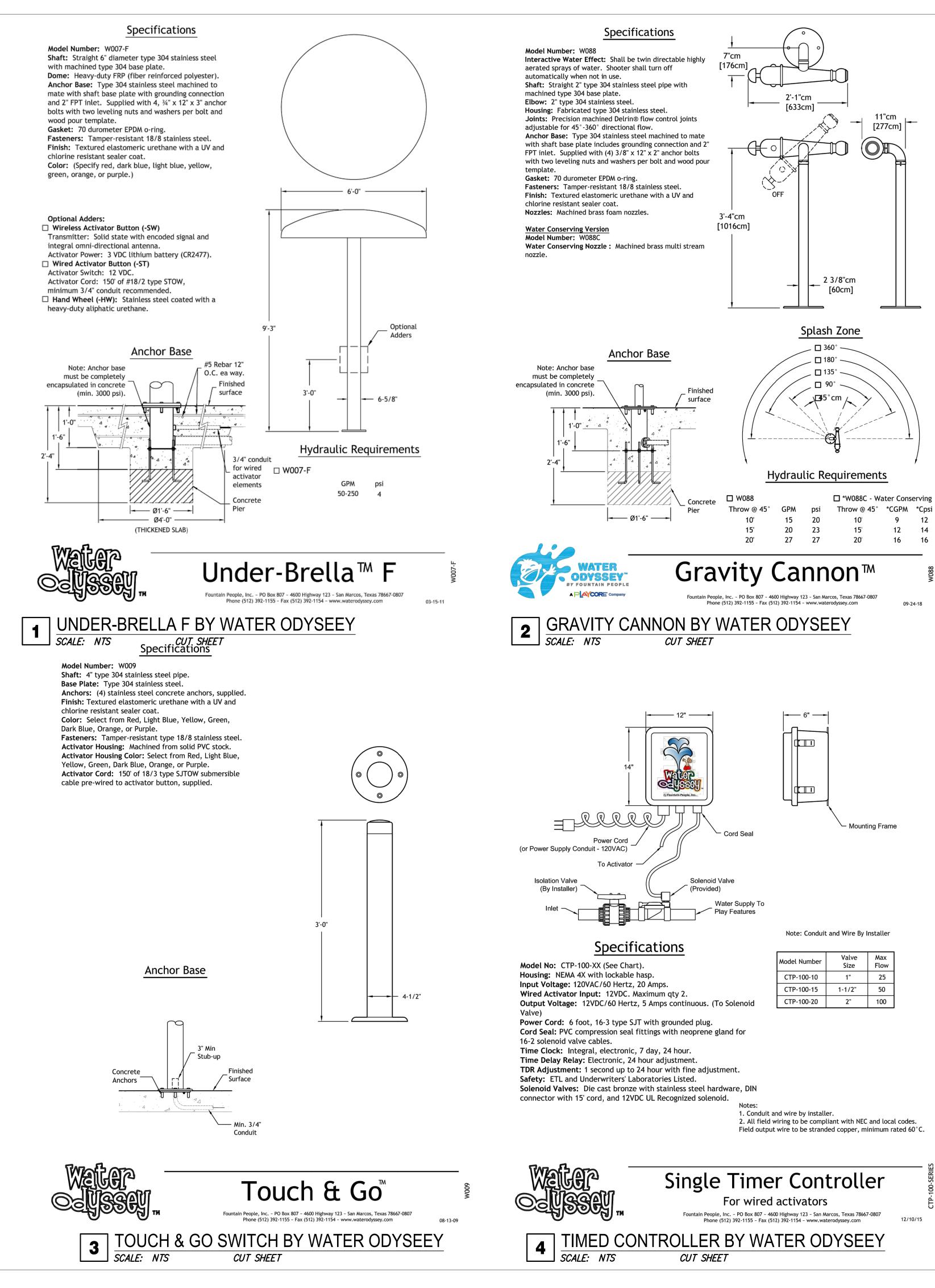
8' / 20'

NOT REC.

MIN BEDDING



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- - C	DECEMBER 2, 2021
	POOL DETAILS