



CITY OF WEST LINN, OREGON

ROSEMONT RESERVOIR

SAFETY AND MAINTENANCE IMPROVEMENTS

PROJECT NO. PW-14-04

JULY 2014

INDEX OF DRAWINGS

GENERAL

- 1 G-1 COVER SHEET, INDEX OF DRAWINGS AND LOCATION MAP
- 2 G-2 GENERAL NOTES AND ABBREVIATIONS

CIVIL

- 3 C-1 SITE PLAN
- 4 C-2 ELEVATION AND ROOF PLAN

STRUCTURAL

- 5 S-1 GENERAL STRUCTURAL NOTES
- 6 S-2 ELEVATION AND ROOF PLAN
- 7 S-3 STRUCTURAL DETAILS
- 8 S-4 STRUCTURAL DETAILS

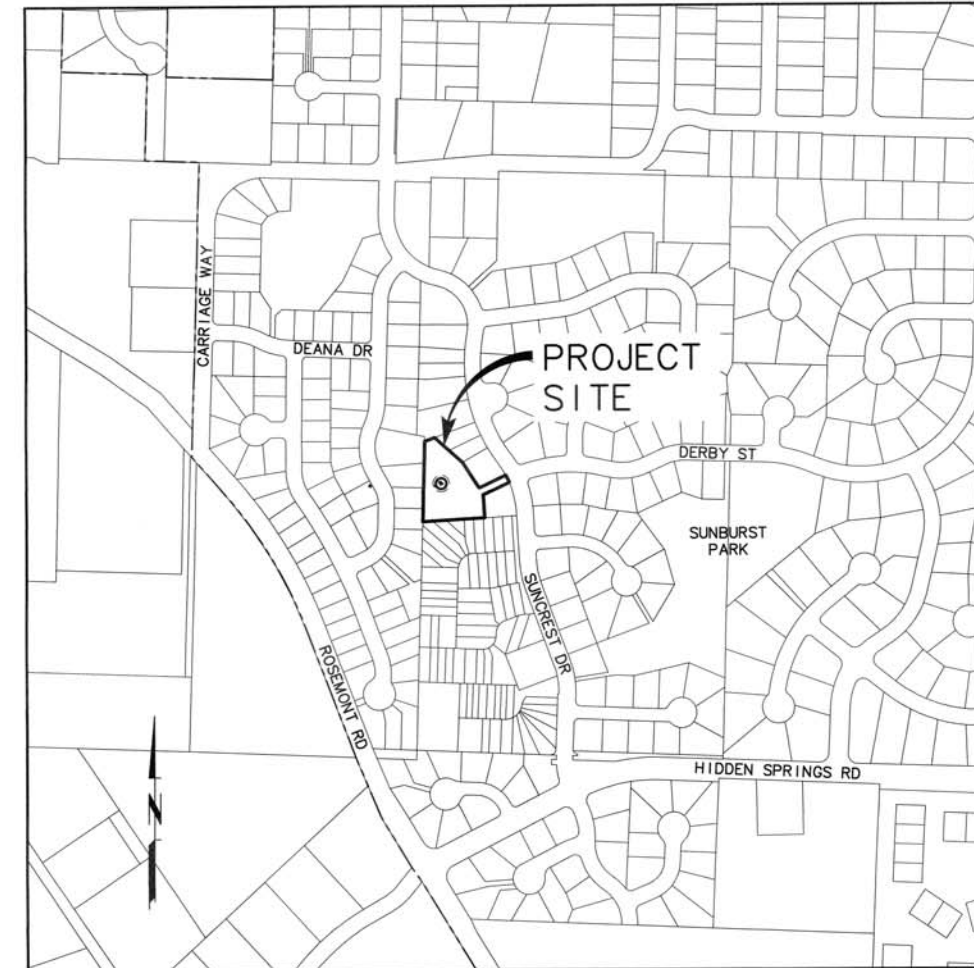
ELECTRICAL

- 9 E-1 ELECTRICAL PLAN
- 10 E-2 ELECTRICAL DETAILS

INSTRUMENTATION AND CONTROL

- 11 IC-1 SCADA SYSTEM MODIFICATIONS

ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-246-6699.)



LOCATION MAP
SCALE: 1"=300'

G:\PDX_Projects\14\1537\201-OR-G.dwg G-1 7/28/2014 9:47 AM RLF 18.2s (LWS Tech)

NO.	DATE	REVISION			
			DESIGNED: JHF	DRAWN: DKH	CHECKED: TPB
			APPROVED: TLB		
SCALE: VERT. AS SHOWN / HORIZ. AS SHOWN NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.					
CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS COVER SHEET INDEX OF DRAWINGS AND LOCATION MAP					
MSA Murray, Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204 PHONE: 503-255-9010 FAX: 503-255-9022			PROJECT NAME: PROJECT TITLE: SHEET TITLE: DATE: JULY 2014		
MSA PROJECT: 14-1537-201			SHEET: G-1 1 of 11		

GENERAL NOTES

- CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, COUNTY, STATE, AND UTILITY CONSTRUCTION PERMITS, AND SHALL CONTACT EACH PERMITTING AGENCY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK. CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES BEFORE STARTING CONSTRUCTION.
- ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-246-6699.)
- CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, SURVEY MONUMENTS AND CONTROL POINTS TO THE EXTENT POSSIBLE.
- CONTRACTOR SHALL KEEP AND MAINTAIN A CURRENT SET OF DRAWINGS ON SITE. CONTRACTOR TO KEEP ACCURATE "AS-BUILT" RECORD COPY OF PLANS. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION FOR USE IN THE PREPARATION OF AS-BUILT DRAWINGS FOR SUBMITTAL TO THE CITY.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL HOMES AND BUSINESSES AT ALL TIMES. PROVIDE WRITTEN NOTICE TO ALL PROPERTY OWNERS AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE OF WORK IN AND/OR CROSSING DRIVEWAYS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS BEFORE STARTING CONSTRUCTION, AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY TESTING OR REQUIRED INSPECTION.
- ANY ALTERATION OR VARIANCE FROM THESE PLANS, EXCEPT MINOR FIELD ADJUSTMENT NOT AFFECTING DESIGN NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL FIRST BE APPROVED BY THE ENGINEER. ANY ALTERATIONS OR VARIANCE FROM THESE PLANS SHALL BE DOCUMENTED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER. ANY PROPOSED CHANGE IN CONSTRUCTION PLANS MUST BE SUBMITTED IN WRITING AND APPROVED BY ENGINEER PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL DISPOSE OF ALL REMOVED OR REPLACED MATERIAL AND EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, EXCEPT THOSE ITEMS DESIGNATED BY THE OWNER FOR SALVAGING. SALVAGED ITEMS SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE CAREFULLY REMOVED AND STORED AS DIRECTED.
- CONTRACTOR SHALL RESTORE ALL STRUCTURES, LOTS, SWALES, DITCHES, CURBS, FENCES, WALLS, MAILBOXES, SIGNS, POLES, GUY WIRES, PIPING, AND UTILITIES DISTURBED DURING CONSTRUCTION TO EXISTING CONDITIONS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL OBSERVE FIELD CONDITIONS, INCLUDING WORK ON PRIVATE PROPERTY, PRIOR TO BIDDING AND ADJUST BID ACCORDINGLY.
- CONTRACTOR TO MAINTAIN THE INTEGRITY OF PRIVATELY OWNED AND MAINTAINED DRIVEWAYS. DAMAGED SURFACES SHALL BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SUCH REPAIRS SHALL BE CONSIDERED INCIDENTAL.
- ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS AND STAKES, AND IN THE CASE OF DESTRUCTION THEREOF BY THE CONTRACTOR RESULTING FROM ITS NEGLIGENCE, THE CONTRACTOR SHALL BE CHARGED WITH THE EXPENSE AND DAMAGE RESULTING THEREFORE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THE UNNECESSARY LOSS OR DISTURBANCE OF SUCH BENCHMARKS, REFERENCE POINTS AND STAKES.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE PLANS, PROJECT SPECIFICATIONS, AND CITY OF WEST LINN PUBLIC WORKS DESIGN STANDARDS.
- ALL COATINGS, GASKETS AND OTHER MATERIALS COMING INTO CONTACT WITH POTABLE WATER SHALL BE NSF 61 APPROVED.
- OPERATION OF ALL VALVES SHALL BE PERFORMED BY AUTHORIZED CITY OF WEST LINN PERSONNEL ONLY.


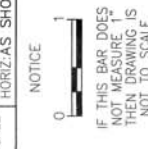
SURVEY NOTES

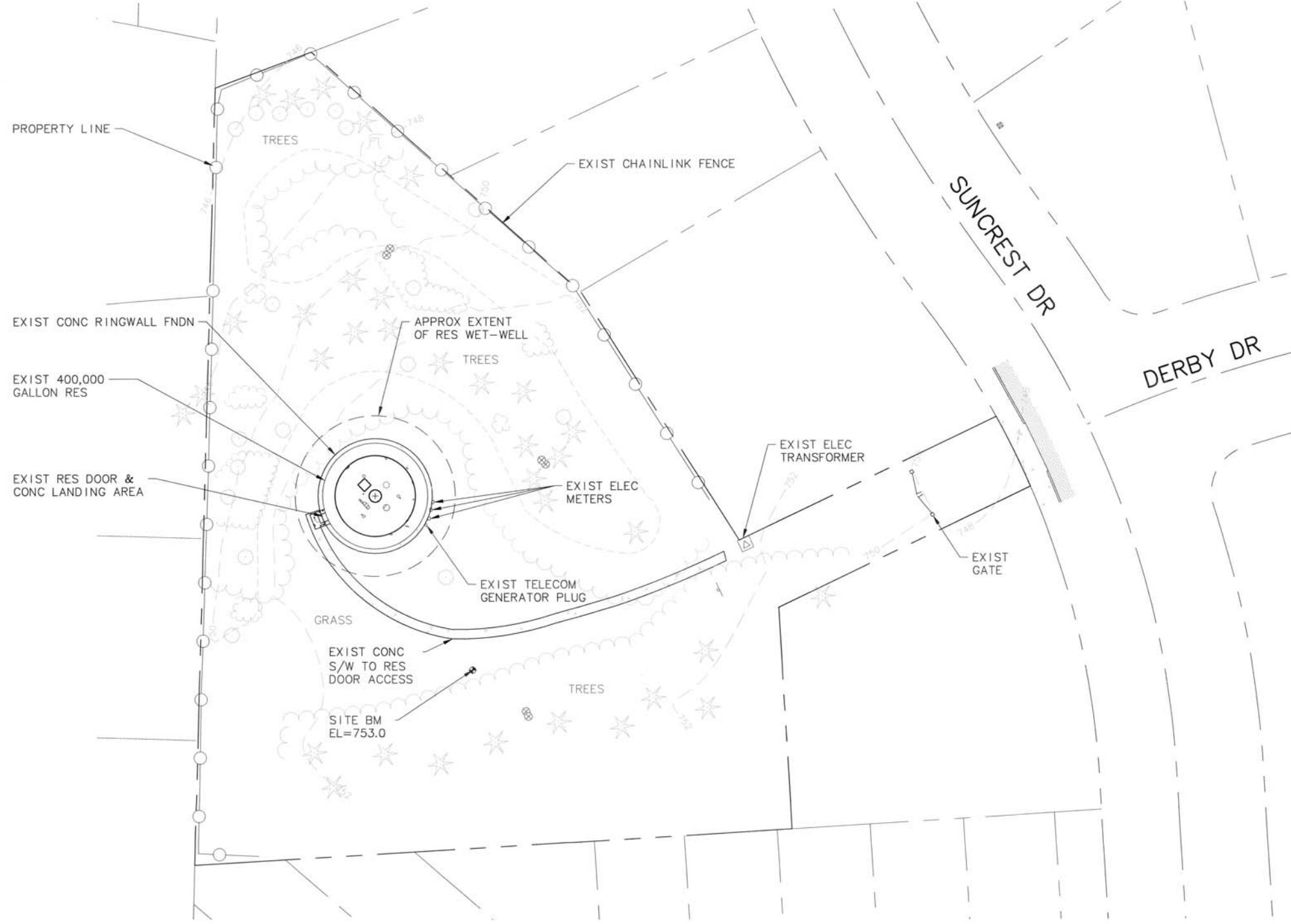
- TOPOGRAPHIC MAP WAS COMPLETED BY SUMMIT SOLUTIONS.
- THE ELEVATION DATUM FOR THIS SURVEY IS NAVD 88. SITE BENCHMARK ELEVATION=753.0'.
- THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83(2011), STATE PLANE OREGON NORTH (ZONE 3601). THE COORDINATES AT THE TANK CENTER ARE:
LATITUDE - 45°22'46.53" N
LONGITUDE - 122°39'20.65" W
- THE UNDERGROUND UTILITIES SHOWN HEREON WERE BASED ON UTILITY LOCATE PAINT MARKS SUPPLIED BY THE OREGON UTILITY NOTIFICATION CENTER AS WELL AS SURFACE EVIDENCE AND PRIVATE AS-BUILT RECORDS. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED.

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	MATL(S)	MATERIAL(S)
ABAN(D)	ABANDON(ED)	MAX	MAXIMUM
APPROX	APPROXIMATELY	MB	MAILBOX
APPVD	APPROVED	MECH	MECHANICAL
ASPH	ASPHALT(IC)	MFR	MANUFACTURER
ASSY	ASSEMBLY	MH	MANHOLE
AWWA	AMERICAN WATER WORKS ASSOCIATION	MIN	MINIMUM
		NTS	NOT TO SCALE
		NIC	NOT IN CONTRACT
		NWN	NORTHWEST NATURAL GAS
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		ODOT	OREGON DEPARTMENT OF TRANSPORTATION
		OVHD	OVERHEAD POWER LINE
		PC	POINT OF CURVATURE
		PCC	PORTLAND CEMENT CONCRETE
		PERF	PERFORATED
		PERP	PERPENDICULAR
		PGE	PORTLAND GENERAL ELECTRIC
		PL	PROPERTY LINE
		R	PLATE
		PROP	PROPOSED
		PT	POINT OF TANGENCY
		PVC	POLYVINYL CHLORIDE
		PVI	POINT OF VERTICAL CURVATURE
		PVMT	PAVEMENT
		PW	PUBLIC WORKS
		RCP	REINFORCED CONCRETE PIPE
		RD	ROAD
		RDWY	ROADWAY
		REINF	REINFORCE(D)(ING)(MENT)
		RES	RESERVOIR
		RESTR	RESTRAIN(ED)
		REQ'D	REQUIRED
		RO	ROUGH OPENING
		RT	RIGHT
		R/W	RIGHT OF WAY
		SCHED	SCHEDULE
		SD	STORM DRAIN
		SDMH	STORM DRAIN MANHOLE
		SHT(S)	SHEET(S)
		SLP	SLOPE
		SLV	SLEEVE
		SPECS	SPECIFICATIONS
		SQ	SQUARE
		SRVC	SERVICE
		SS	SANITARY SEWER
		SSCO	SANITARY SERVICE CLEANOUT
		SSMH	SANITARY SEWER MANHOLE
		SST	STAINLESS STEEL
		STA	STATION
		STL	STEEL
		STD	STANDARD
		S/W	SIDEWALK
		SHT	SHEET
		STRUC	STRUCTURAL
		T, TEL	TELEPHONE
		TC	TOP OF CURB
		TELECOM	TELECOMMUNICATIONS
		TEMP	TEMPORARY
		THK	THICKNESS
		THRD	THREADED
		THRU	THROUGH
		TYP	TYPICAL
		UG	UNDERGROUND
		UGP	UNDERGROUND POWER
		VARS	VARIES
		VERT	VERTICAL(LY)
		VC	VERTICAL CURVE
		W	WATER
		W/	WITH
		W/IN	WITHIN
		W/O	WITHOUT
		WSVC	WATER SERVICE
BC	BOTTOM OF CURB		
BCR	BEGIN CURB RETURN		
BETW	BETWEEN		
BFILL	BACKFILL		
BLDG	BUILDING		
BM	BENCH MARK		
BRK	BREAK		
BTM	BOTTOM		
BV	BALL VALVE		
BVC	BEGIN VERTICAL CURVE		
BVCE	BEGIN VERTICAL CURVE ELEVATION		
BVCS	BEGIN VERTICAL CURVE STATION		
CL	CENTER LINE		
CB	CATCH BASIN		
CDF	CONTROLLED DENSITY FILL		
CI	CAST IRON		
CIPP	CAST IN PLACE PIPE		
CJ	CONTROL JOINT		
CL	CLASS		
CLR	CLEARANCE		
CND	CONDUIT		
CONC	CONCRETE		
CONST	CONSTRUCT(ION)		
COORD	COORDINATE		
COP	COPPER		
COWL	CITY OF WEST LINN		
CPP	CORRUGATED POLYETHYLENE PIPE		
CR	CRUSHED ROCK		
CSP	CONCRETE SEWER PIPE		
CTL	CENTURY LINK		
CY	CUBIC YARD		
DET	DETAIL		
DI	DUCTILE IRON		
DIA	DIAMETER		
DIM	DIMENSION		
DP	DIAMOND PLATE		
DWG	DRAWING		
DWY	DRIVEWAY		
E, ELEC	ELECTRIC OR ELECTRICAL		
EA	EACH		
ECR	END CURB RETURN		
EL	ELEVATION		
EOP	EDGE OF PAVEMENT		
EQ	EQUAL		
EVCE	END VERTICAL CURVE ELEVATION		
EVCS	END VERTICAL CURVE STATION		
EXIST	EXISTING		
FAB	FABRICATE (D)		
FIN	FINISH		
FNDN	FOUNDATION		
FO	FIBER OPTIC		
FT	FOOT/FEET		
G	GAS		
GALV	GALVANIZED		
GEN	GENERAL		
GR	GRADE		
GRVL	GRAVEL		
HGT	HEIGHT		
HPT	HIGH POINT		
HWY	HIGHWAY		
IE	INVERT ELEVATION		
INSTL	INSTALL		
IRR	IRRIGATION		
JT(S)	JOINT(S)		
L	LENGTH		
LOC	LOCATION		
LF	LINEAR FOOT		
L	LANE LINE		
LPT	LOW POINT		
LT	LEFT		

G:\PDX_Projects\14\1537\CAD\Sheets\14-1537-201-OR-G.dwg G-2 7/28/2014 9:47 AM RLF 18.2s (LMS Tech)

BY		REVISION		NO. DATE		DESIGNED: JHF		DRAWN: DKH		CHECKED: TFB		APPROVED: TLB		SHEET	G-2	2 of 11
																
																
CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS GENERAL NOTES AND ABBREVIATIONS																
MSA Murray Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 PHONE 503-255-9010 FAX 503-255-9022 Portland, Oregon 97204																
PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS SHEET TITLE: GENERAL NOTES AND ABBREVIATIONS DATE: JULY 2014 MSA PROJECT: 14-1537:201																

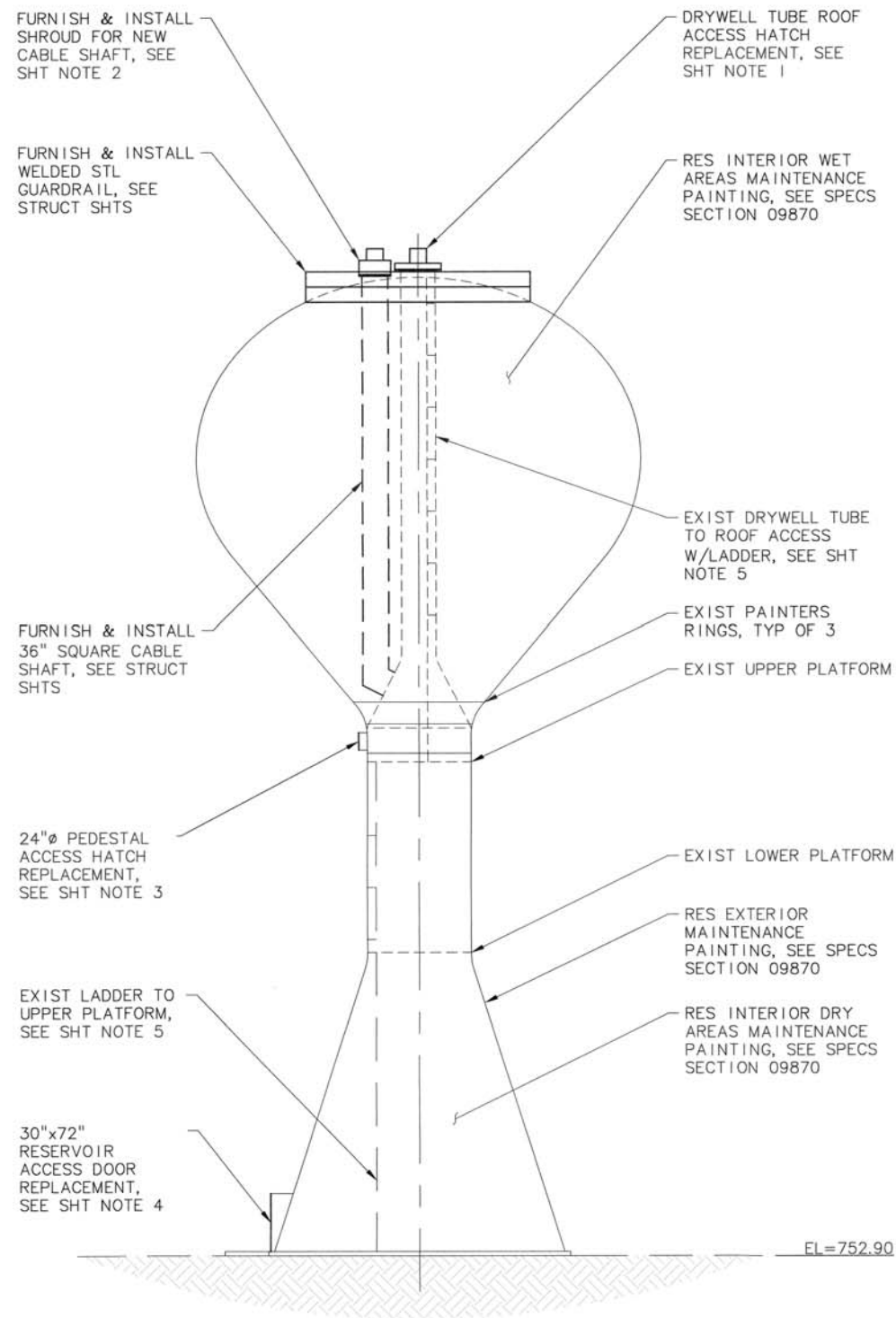


PLAN
SCALE: 1"=20'



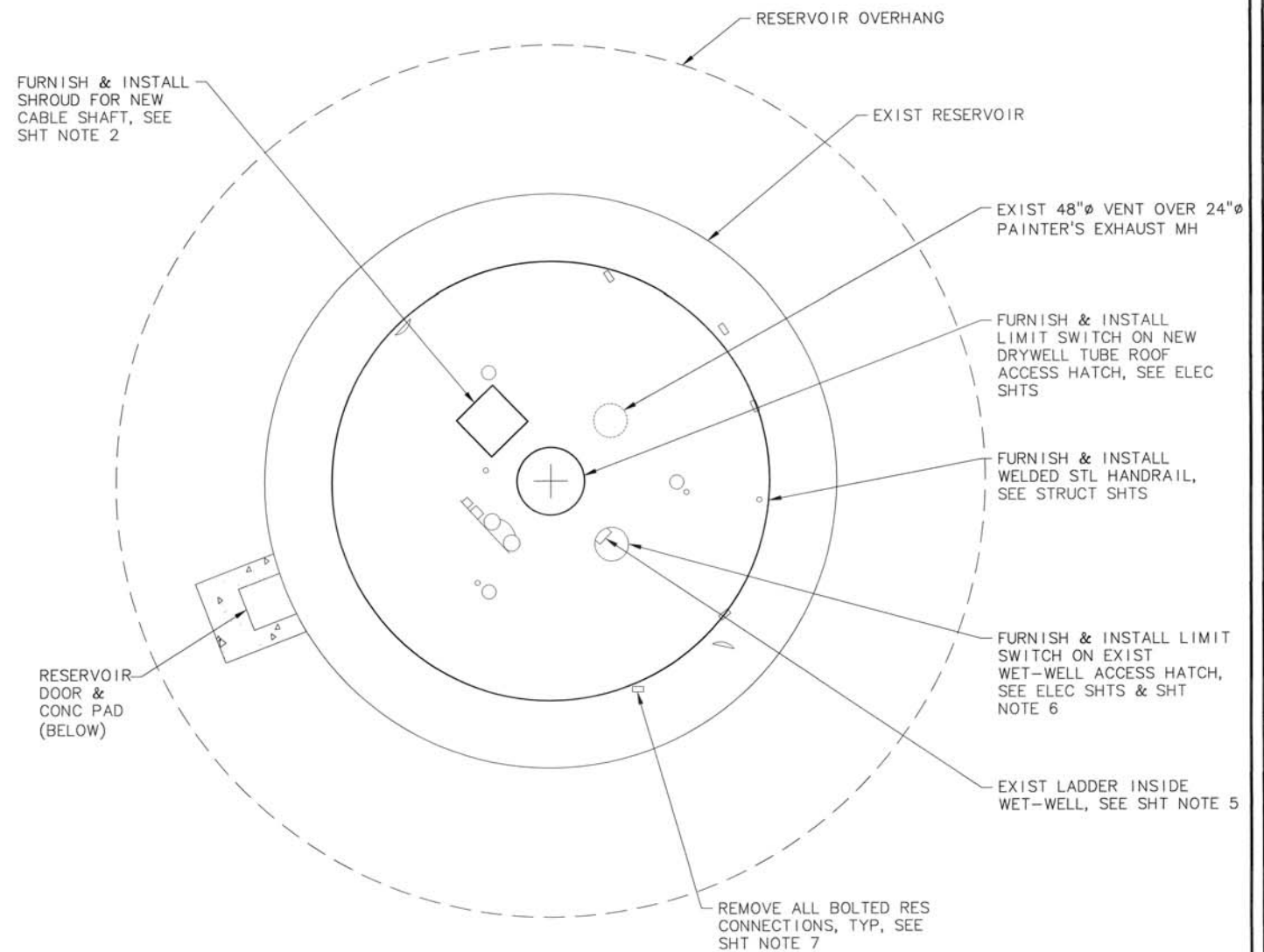
<p>MSA Murray, Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204 PHONE: 503-255-0010 FAX: 503-255-0022</p>	<p>PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS</p> <p>SHEET TITLE: SITE PLAN</p>	<p>SCALE: VERT: AS SHOWN HORIZ: AS SHOWN</p> <p>NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</p>	<p>REGISTERED PROFESSIONAL ENGINEER OR THOMAS P. THOMAS P. EXPIRES 12-31-15</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">REVISION</th> <th style="width: 10%;">BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p>DESIGNED: JHF DRAWN: DKH CHECKED: TPB APPROVED: TLB</p> <p>SHEET C-1 3 of 11</p>	NO.	DATE	REVISION	BY				
NO.	DATE	REVISION	BY									

G:\PDX_Projects\14\1537\CAD\Sheets\14-1537-201-OR-C.dwg C-2 7/28/2014 9:46 AM RLF 18.2s (LMS Tech)



RESERVOIR ELEVATION
SCALE: 1"=10'

- SHEET NOTES:**
- EXISTING DRYWELL TUBE ROOF ACCESS HATCH SHALL BE REPLACED AS DESCRIBED IN SPECIFICATIONS SECTION 05500. FURNISH AND INSTALL NEW HINGED HATCH WITH SCREENED ADJUSTABLE LOUVERS AND LIMIT SWITCH.
 - NEW CABLE SHAFT THROUGH WET-WELL SHALL INCLUDE A WEATHERPROOF SHROUD ON THE RESERVOIR ROOF AS DESCRIBED IN SPECIFICATIONS SECTION 05500.
 - FURNISH AND INSTALL A REPLACEMENT 24-INCH DIAMETER PEDESTAL ACCESS HATCH COMPLETE WITH INTEGRAL LOUVER AS DESCRIBED IN SPECIFICATIONS SECTION 05500.
 - FURNISH AND INSTALL A REPLACEMENT RESERVOIR ACCESS DOOR COMPLETE WITH INTEGRAL LOUVER AS DESCRIBED IN SPECIFICATIONS SECTION 05500.
 - ALL EXISTING NOTCHED RAIL FALL PREVENTION SYSTEMS ARE TO BE REMOVED FROM THE RESERVOIR LADDERS. FURNISH AND INSTALL FALL PREVENTION SYSTEMS AS SPECIFIED IN SECTION 11900 FOR THE FOLLOWING LADDERS: 1) FROM GROUND TO UPPER PLATFORM (APPROXIMATELY 65 FEET); 2) FROM UPPER PLATFORM TO RESERVOIR ROOF (APPROXIMATELY 60 FEET); AND 3) FROM RESERVOIR ROOF TO BOTTOM OF WET-WELL (APPROXIMATELY 50 FEET).
 - INSTALL CONDUIT PENETRATIONS THROUGH EXISTING WET-WELL HATCH COLLAR FOR EXISTING FLOAT SWITCH AND NEW HATCH LIMIT SWITCH PER ELECTRICAL SHEETS.
 - ALL EXISTING BOLTED CONNECTIONS THROUGH RESERVOIR SHELL SHALL BE REMOVED, PLATE PATCHED AND SEAL WELDED.
 - AFTER WELDING OF NEW ITEMS TO TANK, TELECOMMUNICATIONS PROVIDERS AND OTHER ROOFTOP EQUIPMENT OWNERS SHALL BE CONTACTED TO TRANSFER EQUIPMENT TO THE NEW INFRASTRUCTURE.
 - SEE SPECIFICATIONS SECTION 05500 FOR NEW INSTALLATIONS OR MODIFICATIONS TO EXISTING RESERVOIR APPURTENANCES.



RESERVOIR ROOF PLAN
SCALE: 1"=5'-0"

BY		DESIGNED: JHF	DRAWN: DKH	CHECKED: TPB	APPROVED: TLB
NO.	DATE				
SCALE	VERT: AS SHOWN	HORIZ: AS SHOWN	NOTICE IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE		
PROJECT NAME:	CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS				
SHEET TITLE:	ELEVATION AND ROOF PLAN				
PROJECT:	14-1537-201	DATE:	JULY 2014		
	121 S.W. Salmon, Suite 800 Portland, Oregon 97204 PHONE: 503-255-9010 FAX: 503-255-9022				

X:\2014\14-076 to 14-100\14-090\Acad\14-090-01.3 Rosemont Structural Drawings.dwg S-1 7/23/2014 2:07 PM PSE-006 18.2s (LMS Tech)

STRUCTURAL SHEETS:

- S1 GENERAL STRUCTURAL NOTES
- S2 ELEVATION AND ROOF PLAN
- S3 STRUCTURAL DETAILS
- S4 STRUCTURAL DETAILS

GENERAL STRUCTURAL NOTES:

1. THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH THE CONTRACT DOCUMENTS AND HAVE A COPY OF THEM ON SITE AT ALL TIMES.
2. FOR ANY PORTION OF THE CONSTRUCTION WHICH THE CONTRACTOR IS UNABLE TO ASCERTAIN THE REQUIRED CONSTRUCTION OR WHERE CONFLICTS EXIST, IT IS THE CONTRACTORS RESPONSIBILITY TO REQUEST ADDITIONAL INFORMATION (RFIs) AND/OR CLARIFICATIONS BEFORE CONSTRUCTION.
3. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2010 OREGON STATE STRUCTURAL SPECIALTY (OSSC) BUILDING CODE. ALL BUILDING ELEMENTS AND COMPONENTS NOT SPECIFICALLY DETAILED IN THESE STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CONTAINED IN THE IBC AS AMENDED BY THE STATE OF OREGON.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
5. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
6. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY AND WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.

DESIGN LOADS: PER 2009 IBC & 2010 OSSC

1603.1.2 - ROOF LOADS:

LIVE LOAD	20 PSF
SNOW LOAD	25 PSF

ANTENNA LOADS:

DESIGN LOADING FOR ANTENNAS PROVIDED BY CLIENT, AS SUMMARIZED BELOW BY CARRIER

T-MOBILE (GUARDRAIL MOUNTED ARRAYS):

DESIGN WIND PRESSURE - 28.3 PSF

DEAD LOAD - PER COMPONENT WEIGHTS

AT&T (ROOF MOUNTED ARRAYS):

DESIGN ANTENNA ARRAY REACTIONS

VERTICAL LEG

WIND - 1550 LB (VERTICAL)

DEAD - 950 LB (VERTICAL)

ANGLED LEG

WIND - 1550 LB (VERTICAL)

1200 LB (HORIZONTAL)

VERIZON (PEDESTAL MOUNTED ARRAYS):

DESIGN ANTENNA ARRAY REACTIONS

UPPER AND LOWER FRAME MOUNTS

VERTICAL REACTION - 350 LB (PER MOUNT)

HORIZONTAL REACTION - 260 LB (PER MOUNT)

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES, UNLESS NOTED OTHERWISE ON THE PLANS:

- PLATES & BARS - ASTM A36
- TUBES - ASTM A500, GRADE B (Fy = 46 ksi)
- PIPES - ASTM A53, GRADE B
- HSS (RECTANGULAR) - ASTM A500, GRADE B (Fy = 46 ksi)
- HSS (ROUND) - ASTM A500, GRADE B (Fy = 42 ksi)
- CHANNELS & ANGLES - ASTM A36

2. WELD ACCORDING TO CURRENT AWS STANDARDS WITH E70XX ELECTRODES.
3. ALL STEEL EXPOSED TO WEATHER SHALL BE PAINTED OR HOT-DIP GALVANIZED, UNLESS NOTED OTHERWISE.
4. ALL STRUCTURAL CONNECTION BOLTS SHALL BE ASTM A325, UNLESS NOTED OTHERWISE. HOOKED, HEADED, THREADED, AND NUTTED ANCHOR RODS SHALL BE ASTM F1554 (Fy = 36 ksi), UNLESS NOTED OTHERWISE.

SUBMITTALS:

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL SUBMITTALS FOR APPROVAL, PRIOR TO CONSTRUCTION, FOR THE FOLLOWING ITEMS:

1. STEEL FABRICATION SHOP DRAWINGS, MATERIAL CERTIFICATIONS & WELDING PROCEDURES.

SPECIAL INSPECTIONS:

1. AN INDEPENDENT TESTING LABORATORY CHOSEN BY THE OWNER SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AS OUTLINED IN TABLE 2 FOR THE STRUCTURAL SYSTEMS OUTLINED HEREIN. ALL OTHER ELEMENTS SHALL COMPLY WITH THE SPECIAL INSPECTION & TESTING REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. THE TESTING AGENCY SHALL PROVIDE THE ENGINEER OF RECORD, THE OWNER, AND THE BUILDING OFFICIAL COPIES OF ALL RELEVANT TEST REPORTS AND SPECIAL INSPECTIONS.

TABLE 2 REQUIRED STRUCTURAL SPECIAL INSPECTIONS					
SYSTEM or MATERIAL	INSPECTION			REMARKS	
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY Continuous Periodic		
FABRICATORS					
FABRICATORS	1704.2		X	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS	
STEEL					
FABRICATION OF STRUCTURAL ELEMENTS	1704.2		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS	
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1704.3 2203.1	ASTM A6 AISC 360 A3.1	X (a)	CERTIFIED MILL TEST REPORTS	
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS	1704.3	AISC 360 A3.3	X	MANUFACTURER'S CERTIFIED TEST REPORTS	
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1704.3	AISC 360 A3.4	X	MANUFACTURER'S CERTIFIED TEST REPORTS	
MATERIAL VERIFICATION OF WELD FILLER METALS	1704.3	AISC 360 A3.5	X	MANUFACTURER'S CERTIFIED TEST REPORTS	
VERIFYING USE OF PROCER WPS'S			X	COPY OF WELDING PROCEDURE SPECIFICATIONS	
VERIFYING WELDER QUALIFICATIONS			X	COPY OF QUALIFICATION CARDS	
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	1704.3.1	AWS D1.1 SECTION 6	X		
MULTIPASS FILLET WELDS			X	ALL WELDS VISUALLY INSPECTED PER AWS D1.1 6.9	
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X		
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"			X		
SNUG-TIGHT HIGH STRENGTH BOLT INSTALLATION	1704.3.2	RCSC SPECIFICATION FOR	X	ALL CONNECTIONS VISUALLY INSPECTED	
MATERIAL VERIFICATION OF REINFORCING STEEL FOR WELDING	1704.3.1	ACI 318 3.5.2 AWS D1.4 SECTION 7	X	CERTIFIED MILL TEST REPORTS	
MATERIAL VERIFICATION OF WELD FILLER METALS			X	MANUFACTURER'S CERTIFIED TEST REPORTS	
VERIFYING USE OF PROCER WPS'S			X	COPY OF WELDING PROCEDURE SPECIFICATIONS	
VERIFYING WELDER QUALIFICATIONS			X	COPY OF QUALIFICATION CARDS	
WELDING REINFORCING EXCEPT AS NOTED OTHERWISE			X	ALL WELDS VISUALLY INSPECTED PER AWS D1.4 7.5	
WELDING REINFORCING STEEL IN MOMENT RESISTING FRAMES	1704.3.1	ACI 318 3.5.2 AWS D1.4 SECTION 7	X	ALL WELDS VISUALLY INSPECTED PER AWS D1.4 7.5	

STRUCTURAL OBSERVATION REQUIREMENTS:

1. THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD OR AN ALTERNATE OREGON LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE ENGINEER OF RECORD, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1702 OF THE INTERNATIONAL BUILDING CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY OTHER INSPECTION CRITERIA, INCLUDING SPECIAL INSPECTION, AS REQUIRED BY THE BUILDING OFFICIAL OR AS INDICATED WITHIN THE INTERNATIONAL BUILDING CODE.
3. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND THE BUILDING OFFICIAL (AND THE ENGINEER OF RECORD IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION). AT THE CONCLUSION OF THE STRUCTURAL SYSTEMS, INCLUDED WITHIN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE OWNER (AND THE ENGINEER OF RECORD IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION) A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
4. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE STRUCTURAL OBSERVER TO PERFORM THE REQUIRED STRUCTURAL OBSERVATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND STRUCTURAL OBSERVER A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED STRUCTURAL OBSERVATIONS MAY BE PERFORMED. IN ADDITION THE CONTRACTOR SHALL UPDATE THE STRUCTURAL OBSERVER OF THE CONSTRUCTION PROGRESS.
5. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING AREAS OF WORK:
 - 5.1. FOLLOWING THE COMPLETION OF ALL STRUCTURAL ELEMENTS CONTAINED HEREIN.

PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS	SHEET TITLE: GENERAL STRUCTURAL NOTES	PROJECT NO.: SHEET S-1	DATE: JULY 2014	MSA PROJECT: 14-1537.201
CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS GENERAL STRUCTURAL NOTES		SHEET S-1	DATE: JULY 2014	MSA PROJECT: 14-1537.201
PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS		SHEET TITLE: GENERAL STRUCTURAL NOTES	PROJECT NO.: SHEET S-1	DATE: JULY 2014
CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS GENERAL STRUCTURAL NOTES		SHEET S-1	DATE: JULY 2014	MSA PROJECT: 14-1537.201

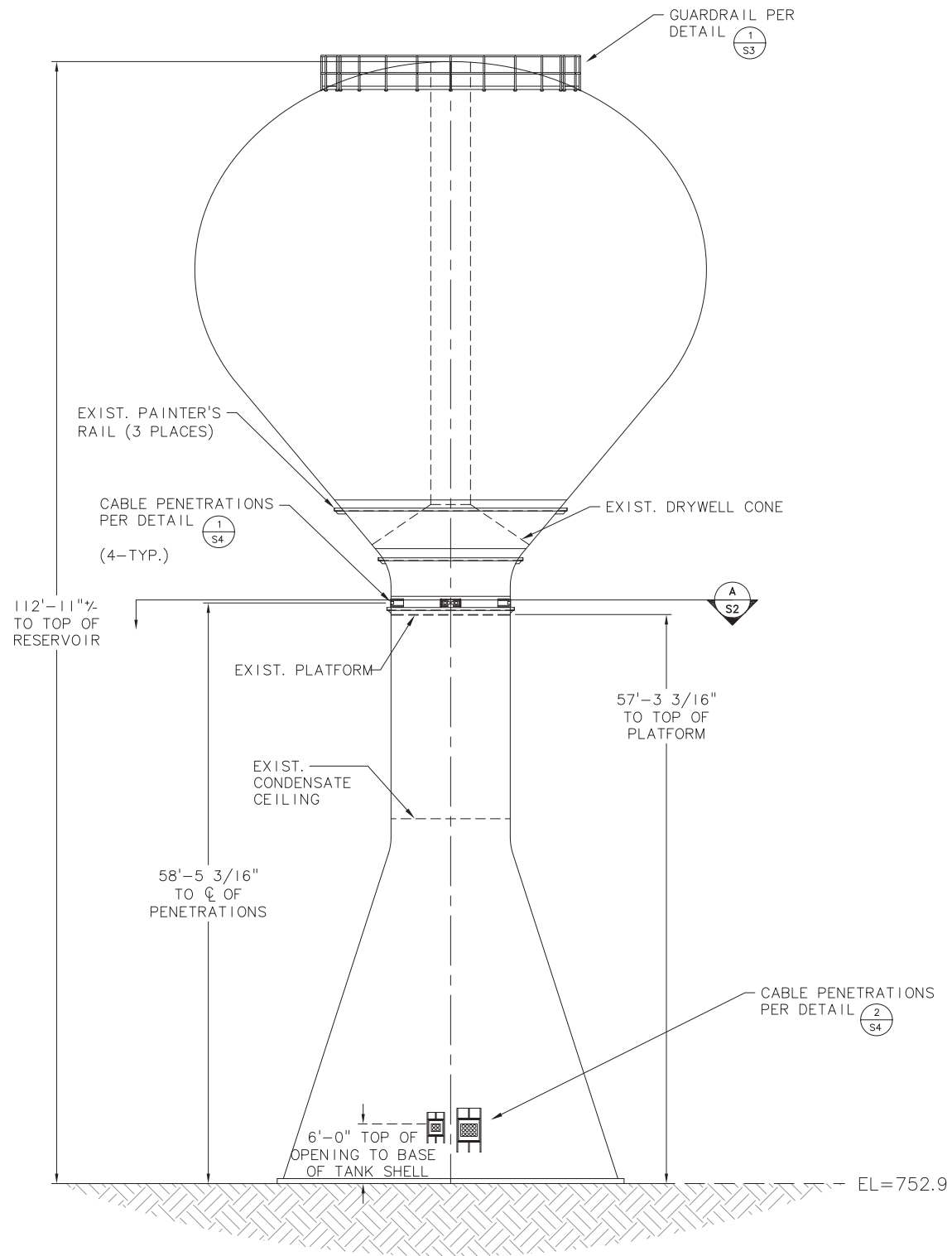


MSA
 Murray Smith & Associates, Inc.
 Engineers/Planners
 121 S.W. Salmon, Suite 900
 Portland, Oregon 97204
 PHONE 503-225-9010
 FAX 503-225-9022

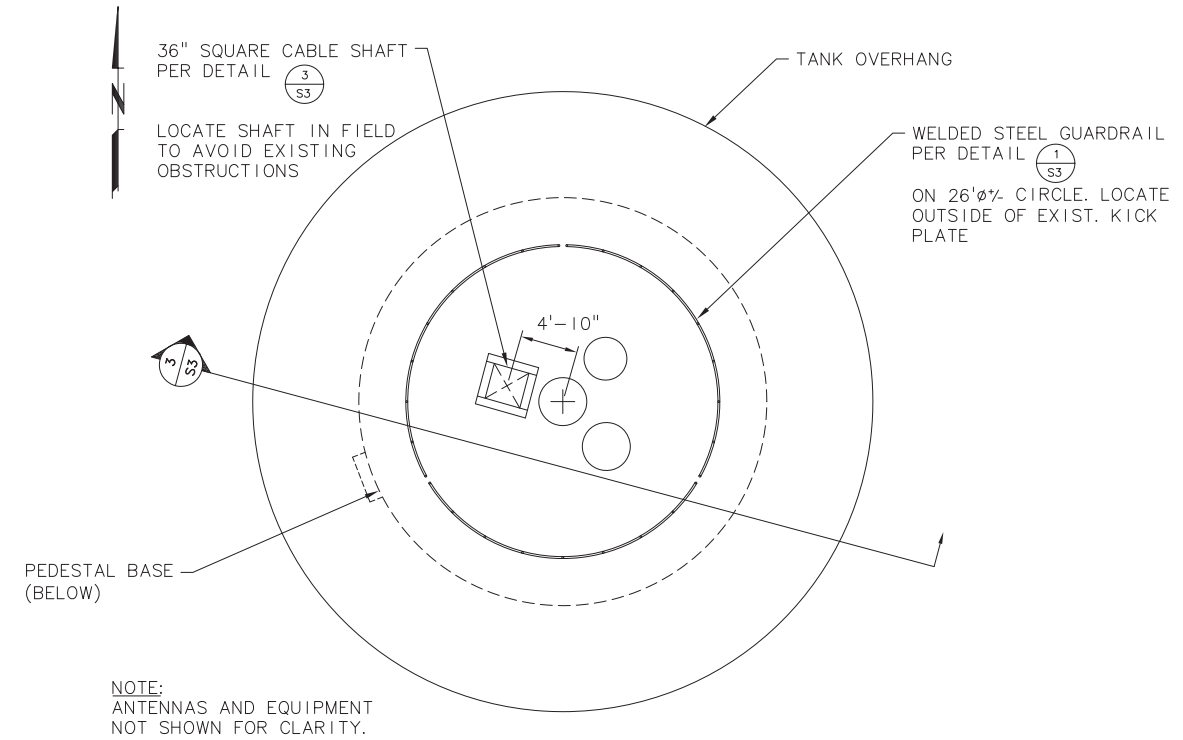
BY: _____
 REVISION: _____
 NO. DATE: _____
 DESIGNED: JWC/EFL
 DRAWN: JWC/EFL
 CHECKED: TGM
 APPROVED: TLB
 EXPIRES: 12/31/14

X:\2014\14-076 to 14-100\14-090\Acad\14-090-01.3 Rosemont Structural Drawings.dwg S-2 7/23/2014 2:07 PM PSE-006 18.2s (LMS Tech)

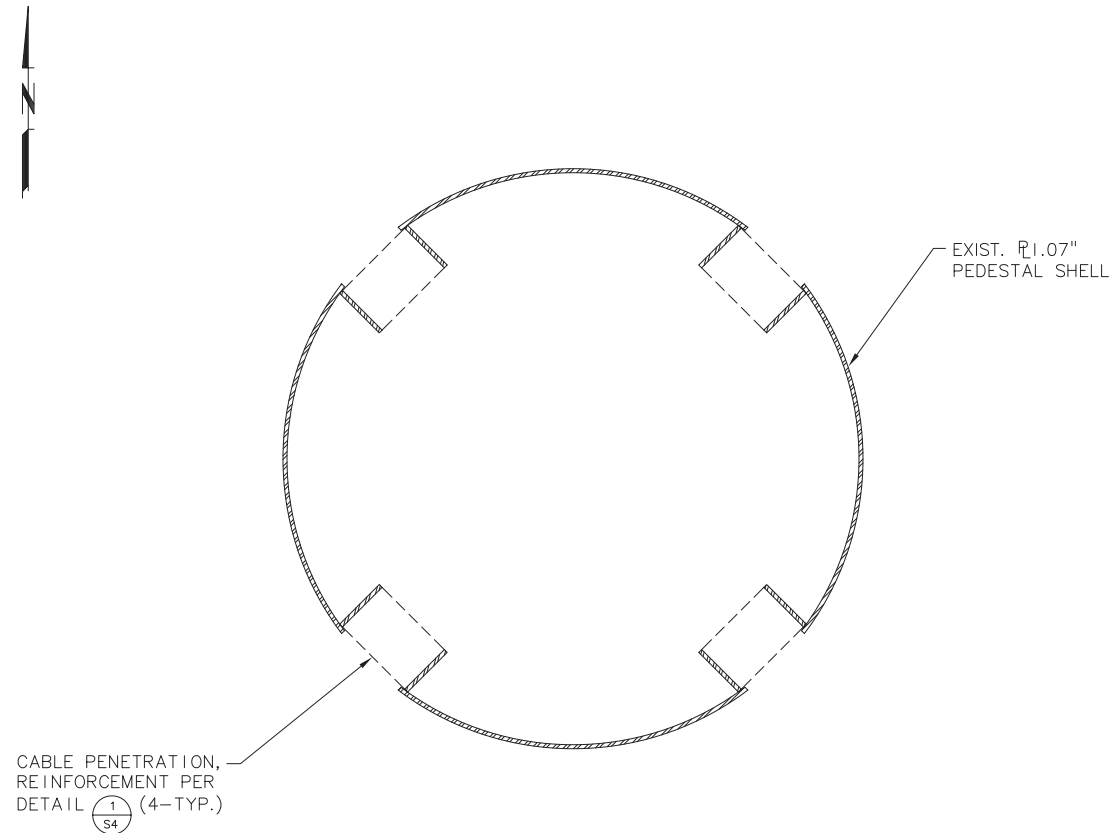
- NOTE:
- PENETRATIONS HAVE BEEN ROTATED IN-LINE FOR CLARITY. SEE PLANS FOR ACTUAL POSITIONS.
 - ANTENNAS AND EQUIPMENT NOT SHOWN FOR CLARITY.



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



RESERVOIR ROOF PLAN
SCALE: 1/8"=1'-0"



PEDESTAL SECTION (A) S2
SCALE: 1/2"=1'-0"

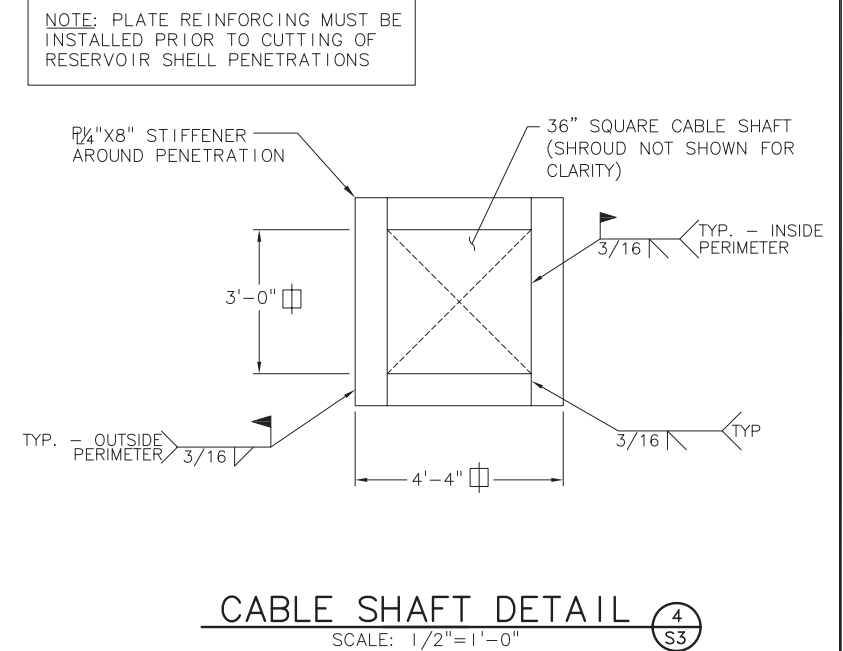
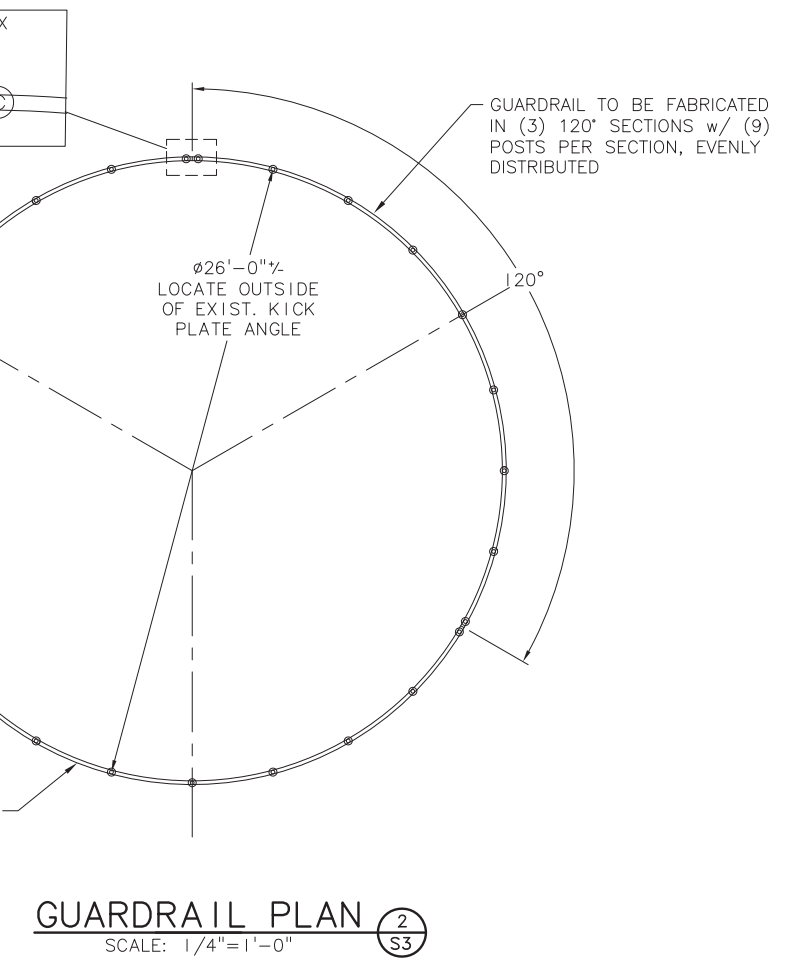
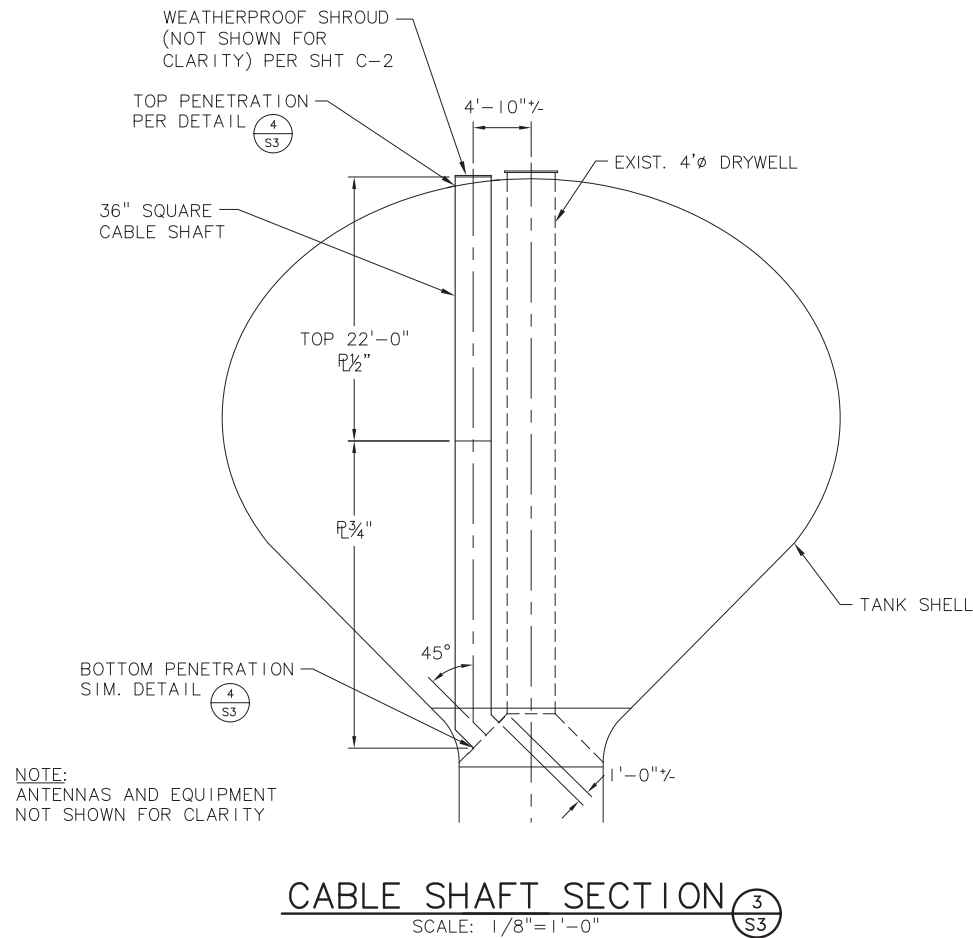
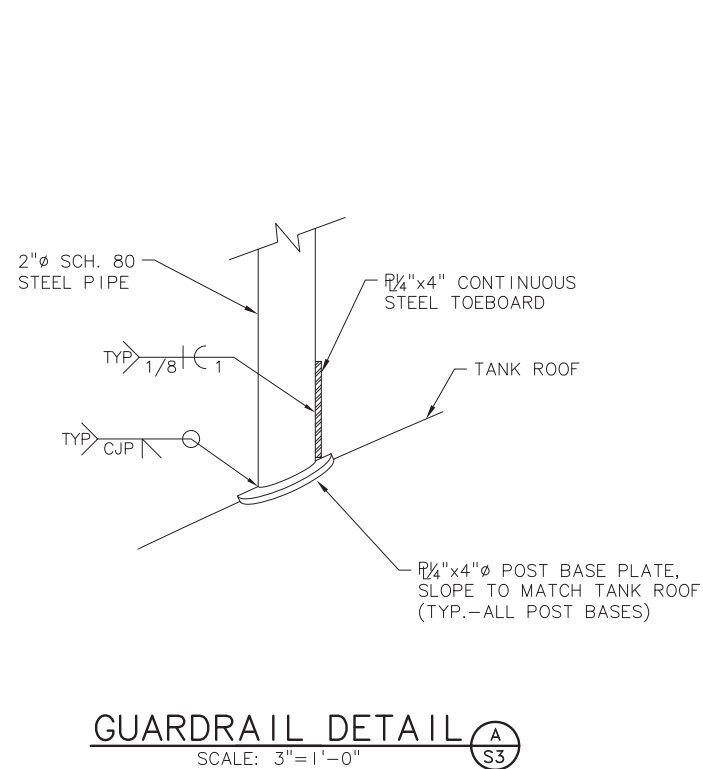
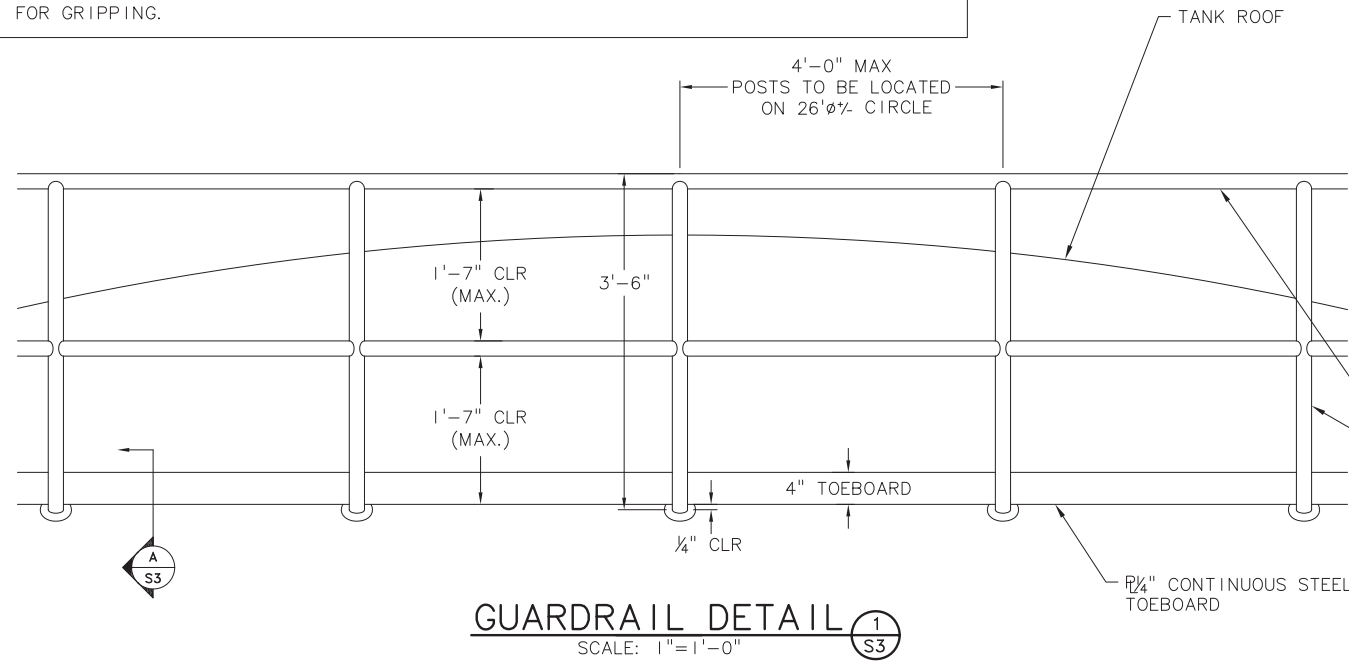
NOTE:
ANTENNAS AND EQUIPMENT
NOT SHOWN FOR CLARITY.

BY:	REVISION:	NO.:	DATE:	DESIGNED: JWC/EFL	DRAWN: JWC/EFL	CHECKED: TGM	APPROVED: TLB
SCALE:		VERT: AS SHOWN		HORIZ: AS SHOWN		NOTICE	
						IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	
<p>PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS</p> <p>SHEET TITLE: ELEVATION AND ROOF PLAN</p>							
<p>Murray Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204</p>				<p>Peterson Structural Engineers, Inc. 5319 S.W. Westgate Dr., Suite 215 Portland, Oregon 97221 (503) 292-1635</p>			
<p>DATE: JULY 2014</p>				<p>PSE PROJECT NO. 14-090</p>			
<p>MSA PROJECT: 14-1537.201</p>							
<p>SHEET S-2</p>							
<p>6 of 11</p>							

X:\2014\14-076 to 14-100\14-090\Acad\14-090-01.3 Rosemont Structural Drawings.dwg S-3 7/23/2014 2:07 PM PSE-006 18.2s (LMS Tech)

GUARDRAIL CONSTRUCTION NOTES:

- ALL GUARDRAIL MEMBER CONNECTIONS TO BE FULLY WELDED ALL AROUND.
- HORIZONTAL RAIL MEMBERS SHALL BE CURVED TO MATCH DIAMETER OF GUARDRAIL CIRCLE.
- INTERMEDIATE RAILS SHALL HAVE ENDS COPE TO FIT POSTS. POSTS SHALL NOT BE CUT OR OTHERWISE COMPROMISED TO FIT INTERMEDIATE RAILS.
- GUARDRAIL TO BE FABRICATED IN (3) EVEN SECTIONS AND JOINED IN FIELD. HORIZONTAL RAILS SHALL BE FULLY WELDED IN FIELD BETWEEN GUARDRAIL SECTION END POSTS TO PROVIDE A CONTINUOUS GUARDRAIL.
- GUARDRAIL MEMBERS AND JOINTS SHALL BE FREE OF BURRS AND PROVIDE A SMOOTH SURFACE FOR GRIPPING.



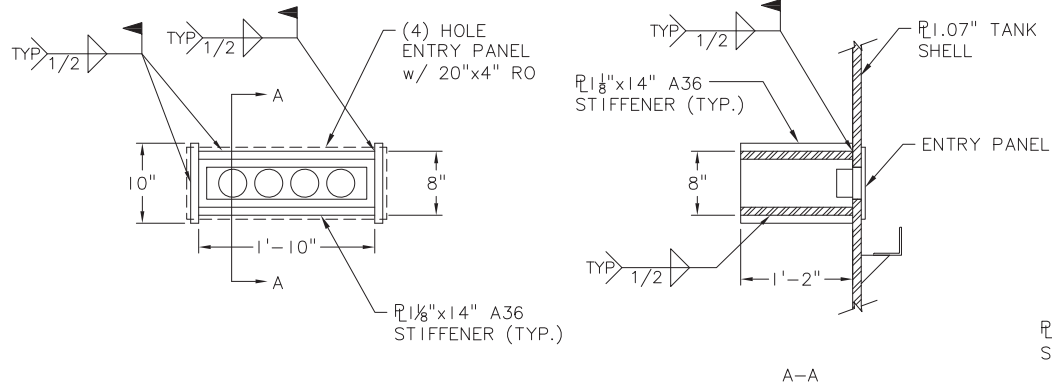
NOTE: PLATE REINFORCING MUST BE INSTALLED PRIOR TO CUTTING OF RESERVOIR SHELL PENETRATIONS

PSE
Peterson Structural Engineers, Inc.
5319 S.W. Westgate Dr., Suite 215
Portland, Oregon 97221
(503) 292-1635
PSE PROJECT NO. 14-090

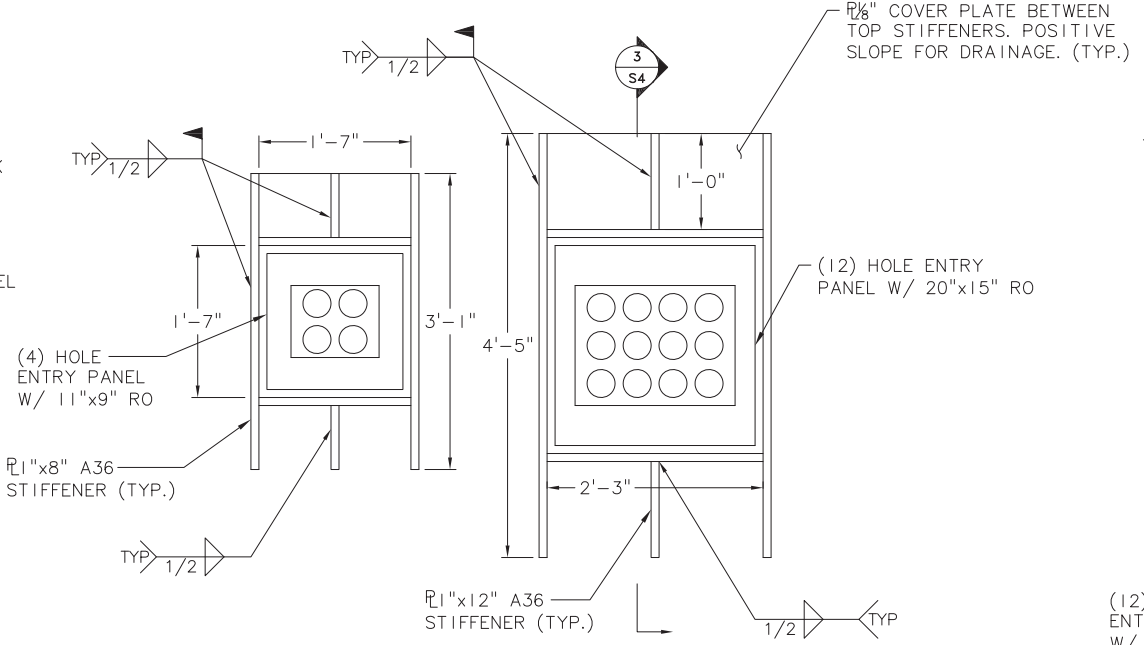
BY:	REVISION:	NO.:	DATE:	DESIGNED: JWC/EFL	DRAWN: JWC/EFL	CHECKED: TGM	APPROVED:
				SHEET S-3 7 of 11			
PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS SHEET TITLE: STRUCTURAL DETAILS							
Murraysmith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204				PHONE: 503-255-9010 FAX: 503-255-9022 DATE: JULY 2014 MSA PROJECT: 14-1537.201			

X:\2014\14-076 to 14-100\14-090\Acad\14-090-01.3 Rosemont Structural Drawings.dwg S-4 7/25/2014 8:25 AM PSE-006 18.2s (LMS Tech)

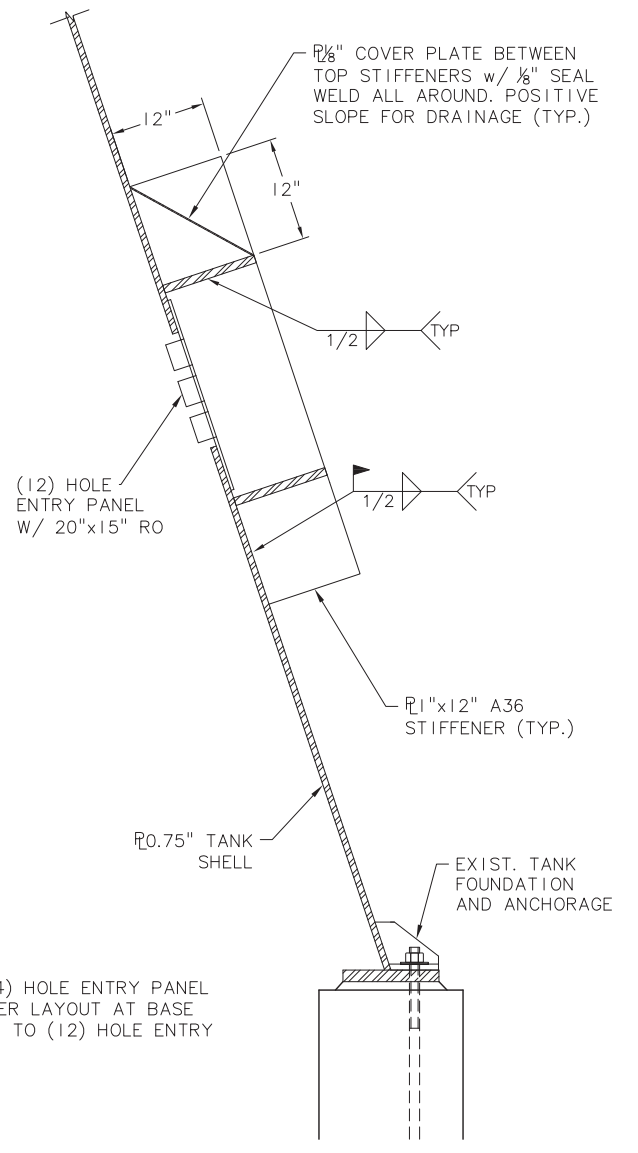
NOTE: PLATE REINFORCING MUST BE INSTALLED PRIOR TO CUTTING OF RESERVOIR SHELL PENETRATIONS



PEDESTAL PENETRATION DETAIL (1) S4
SCALE: 1"=1'-0"

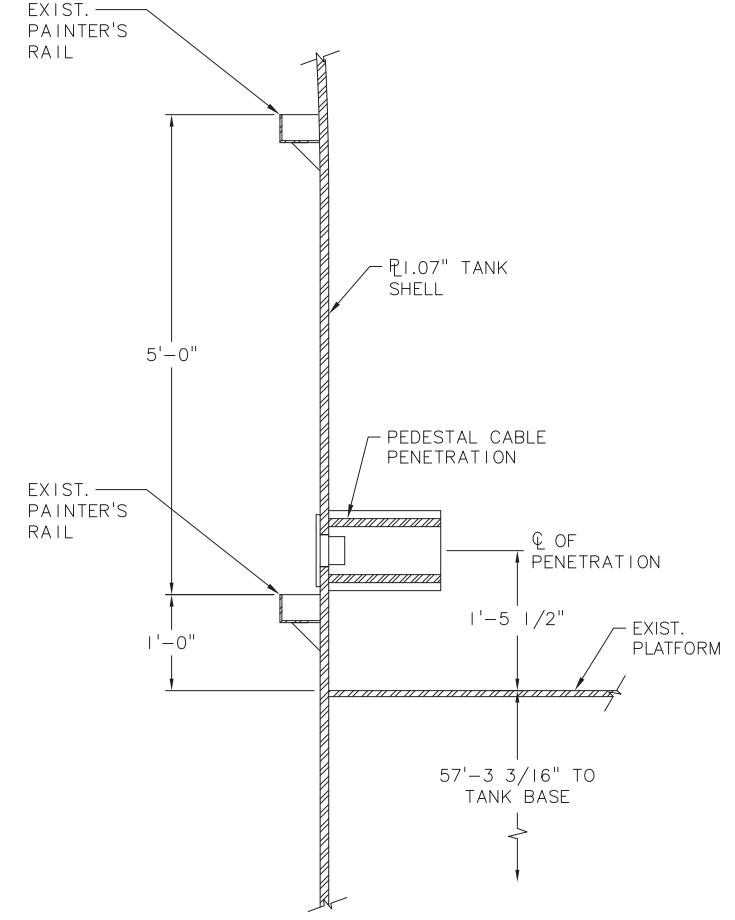


BASE PENETRATION DETAIL (2) S4
SCALE: 1"=1'-0"



NOTE: (4) HOLE ENTRY PANEL STIFFENER LAYOUT AT BASE SIMILAR TO (12) HOLE ENTRY PANEL.

BASE PENETRATION SECTION (3) S4
SCALE: 1"=1'-0"

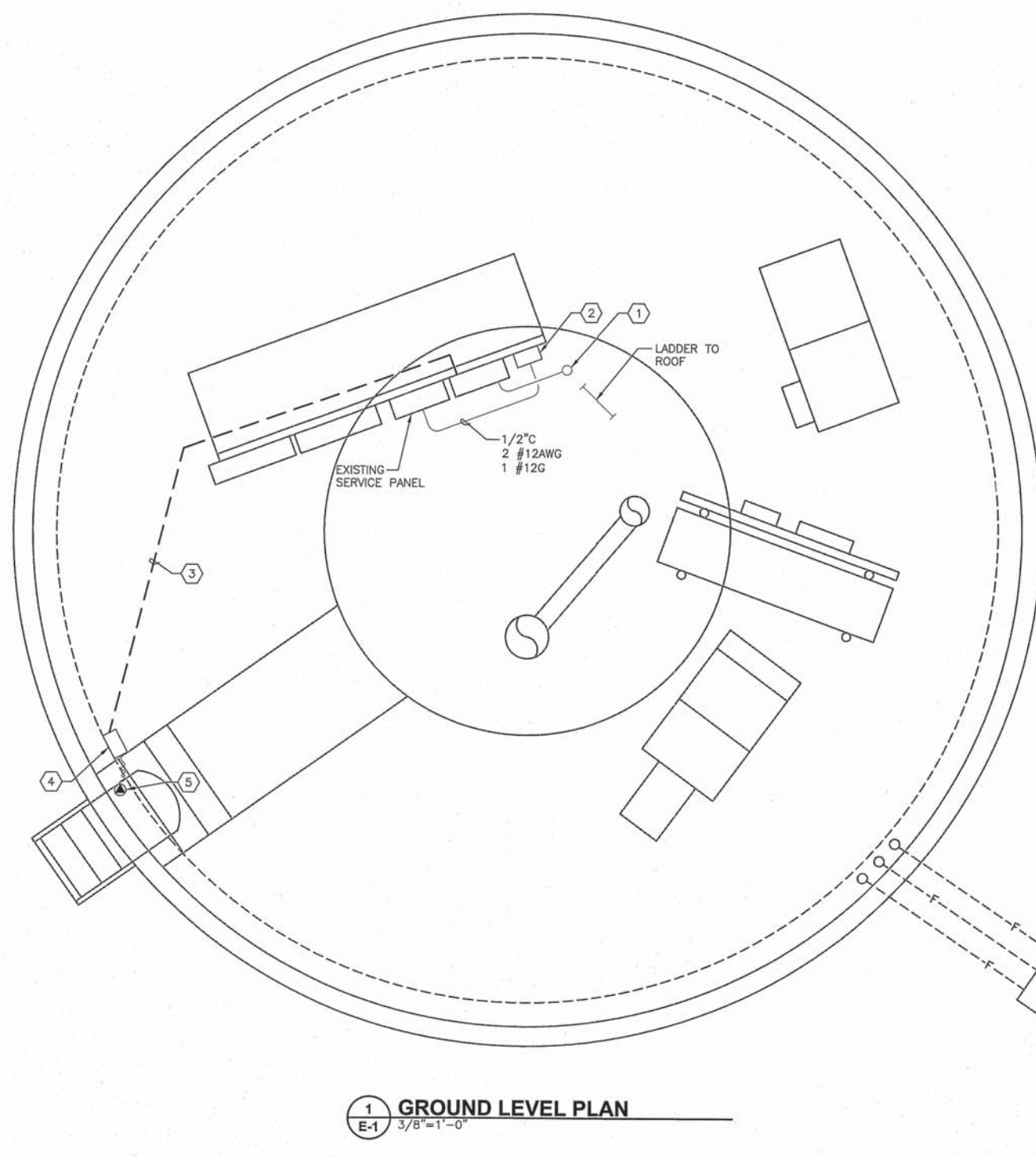


PEDESTAL PENETRATION SECTION (4) S4
SCALE: 1"=1'-0"

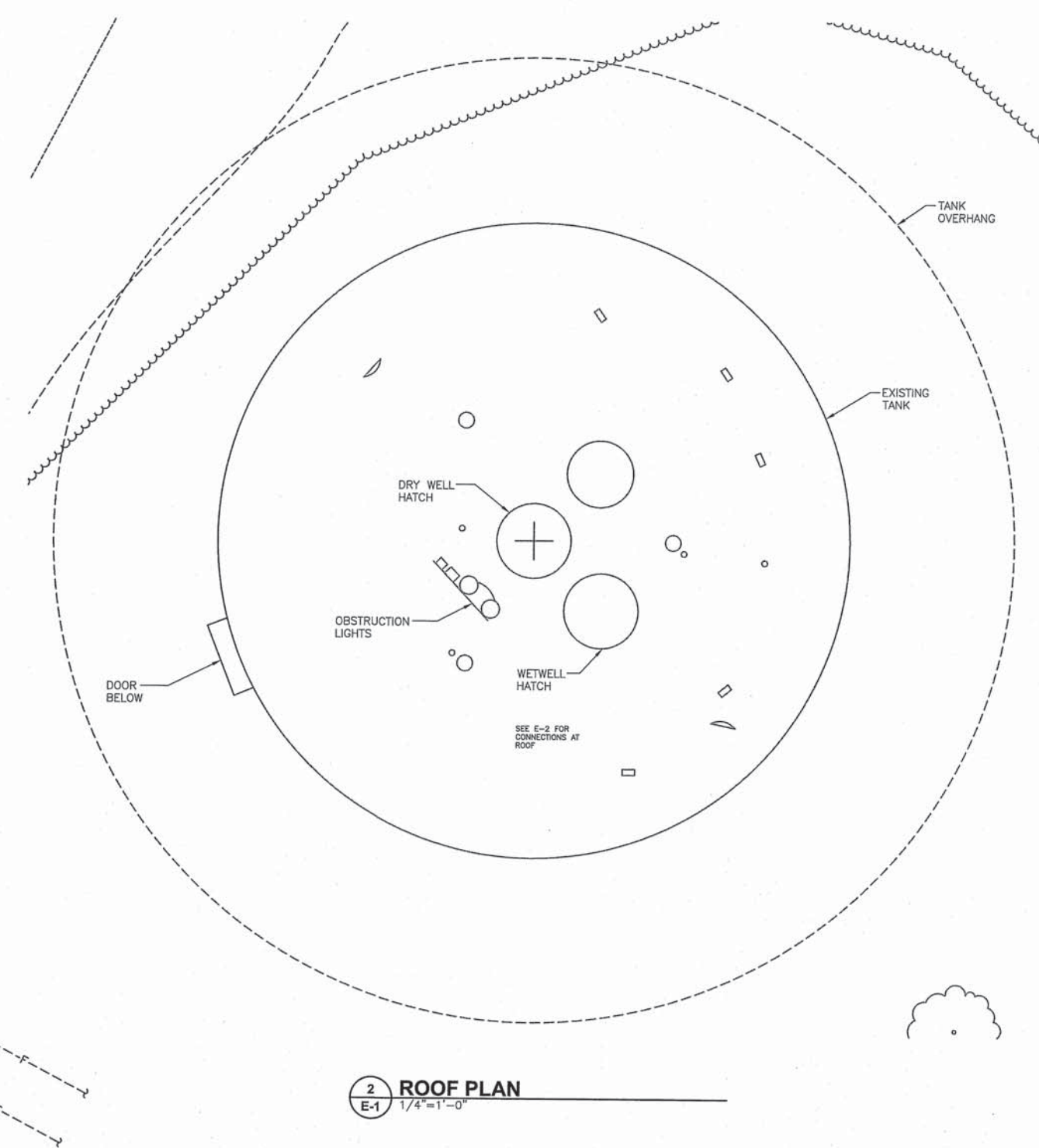
BY:	REVISION:	NO.:	DATE:	DESIGNED: JWC/EFL	DRAWN: JWC/EFL	CHECKED: TGM	APPROVED: TLB
SCALE: VERT. AS SHOWN HORIZ. AS SHOWN		NOTICE		IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE			
PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS				SHEET TITLE: STRUCTURAL DETAILS			
Murray Smith & Associates, Inc. Engineers/Planners 121 S.W. Salmon, Suite 900 Portland, Oregon 97204 PHONE: 503-255-9010 FAX: 503-255-9022				DATE: JULY 2014			
PSE PROJECT NO. 14-090				MSA PROJECT: 14-1537.201			

PSE
Peterson Structural Engineers, Inc.
5319 S.W. Westgate Dr., Suite 215
Portland, Oregon 97221
(503) 292-1635
PSE PROJECT NO. 14-090

W:\WF\483_Murray Smith Assoc\080_Rosemont Reservoir\001_Design\DWG\E-1.0.dwg Layout | 7/28/2014 3:29 PM JAMES 19.1s (LMS Tech)



1 GROUND LEVEL PLAN
E-1 3/8"=1'-0"



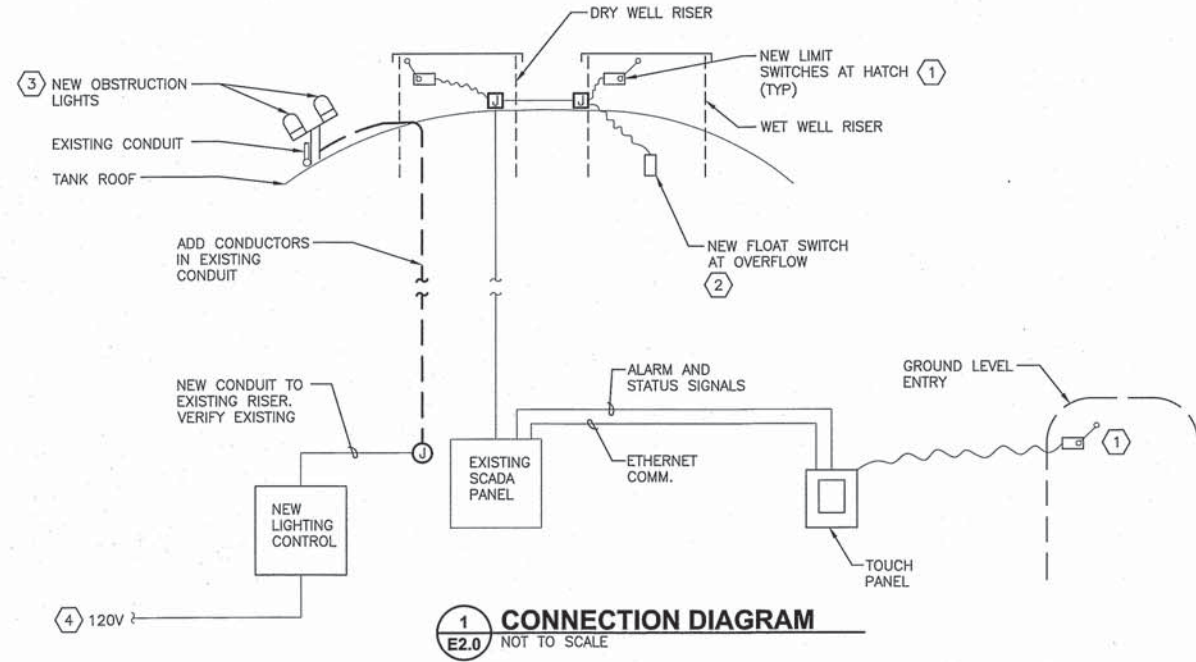
2 ROOF PLAN
E-1 1/4"=1'-0"

NOTES THIS SHEET

- 1 NEW CONDUIT TO JUNCTION BOX ON ROOF FOR OVERFLOW FLOAT AND TWO HATCH SENSORS. ROUTE CONDUIT ON EXISTING RACKS WHERE POSSIBLE. 1" RGS CONDUIT WITH 6 #14 AWG, 1 #12 AWG, G.
- 2 NEW OBSTRUCTION LIGHT CONTROLLER. PROVIDE NEW CONDUCTORS IN EXISTING CONDUITS TO NEW OBSTRUCTION LIGHTS ON ROOF.
- 3 NEW (2) 1" RGS CONDUIT. ONE CONDUIT CONTAINS CAT 6E CABLE FOR ETHERNET COMMUNICATION. SECOND CONDUIT CONTAINS 10 #14 AWG, 1 #12 AWG, G FOR STATUS AND POWER.
- 4 DOOR ENTRY TOUCH PANEL PROVIDED BY CONTROL SYSTEM INTEGRATOR. MOUNT AND CONNECT COMPLETE AS REQUIRED.
- 5 INSTALL LIMIT SWITCH AT ENTRY DOOR.

R&W ENGINEERING, INC.
"Engineering Integrated Solutions"
9015 S.W. Allen Boulevard
Suite 107
Beaverton, Oregon 97005
Phone: (503) 726-3300
Fax: (503) 726-3326
E-mail: rwen@rweg.com
Project No.: 483.080.001 Contact: GREGG SCHOLZ

<p>Murray, Smith & Associates, Inc. Engineers/Planners 21 S.W. Salmon, Suite 900 Portland, Oregon 97204 PHONE 503-255-9010 FAX 503-255-9022</p>	<p>DATE: JULY 2014</p>						
	<p>PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS SHEET TITLE: ELECTRICAL PLAN</p>						
<p>SCALE: VERT. AS SHOWN HORIZ. AS SHOWN</p>	<p>NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</p>						
<p>REGISTERED PROFESSIONAL ENGINEER No. 17778 GREGG H. SCHOLZ OREGON H. SC. 14874 EXPIRES 6/30/2016</p>	<p>REVISION:</p> <table border="1"> <tr><th>NO.</th><th>DATE</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	BY			
NO.	DATE	BY					
<p>DESIGNED: GHS DRAWN: MJP CHECKED: GHS APPROVED: GHS</p>	<p>SHEET: E-1 9 of 11</p>						



NOTES THIS SHEET

- 1 LIMIT SWITCHES PROVIDED BY CONTROL SYSTEM INTEGRATOR.
- 2 FLOAT SWITCH PROVIDED BY CONTROL SYSTEM INTEGRATOR. PROVIDE CORD GRIP SUPPORT AT ELEVATION DIRECTED BY ENGINEER.
- 3 PROVIDE AND INSTALL NEW OBSTRUCTION LIGHT WITH ALARMED CONTROLLER. LIGHTS SHALL BE SPECIALTY TOWER LIGHTING MODEL SL-2 LED OR EQUAL. CONTROLLER SHALL BE SPECIALTY TOWER LIGHTING MODEL RL-OMLED OR EQUAL.
- 4 PROVIDE 120V, 20A CIRCUIT FROM EXISTING PANEL.



MSA Murray, Smith & Associates, Inc.
Engineers/Planners
21 S.W. Salmon, Suite 800
Portland, Oregon 97204
PHONE: 503-255-4000
FAX: 503-255-4022

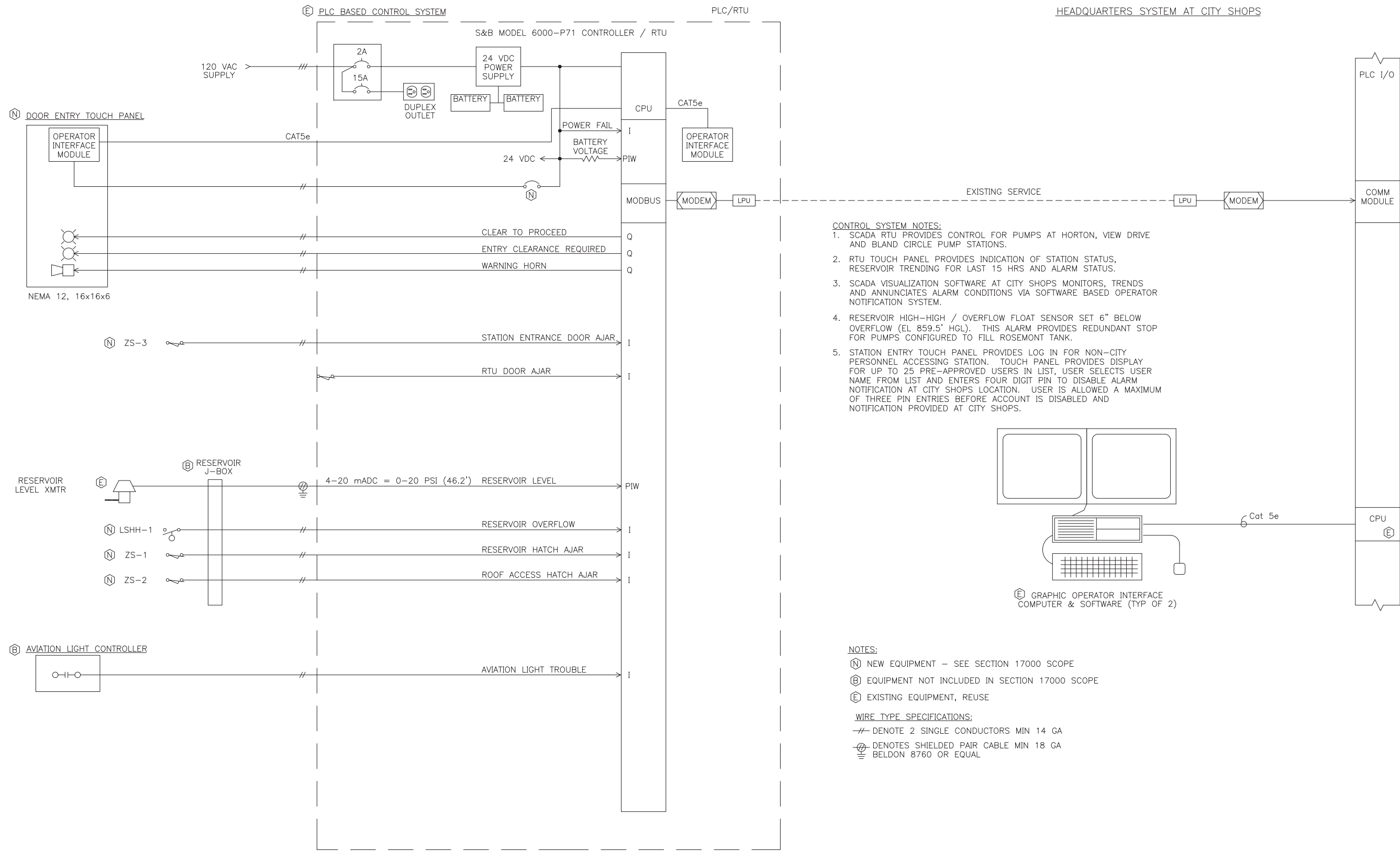
PROJECT NAME: CITY OF WEST LINN, OREGON
ROSEMONT RESERVOIR
SAFETY AND MAINTENANCE IMPROVEMENTS
SHEET TITLE: ELECTRICAL DETAILS

SCALE: VERT. AS SHOWN, HORIZ. AS SHOWN
NOTICE: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STATE OF OREGON
JULY 16, 1981
GREGG H. SCHOLZ
EXPIRES 6/30/2016

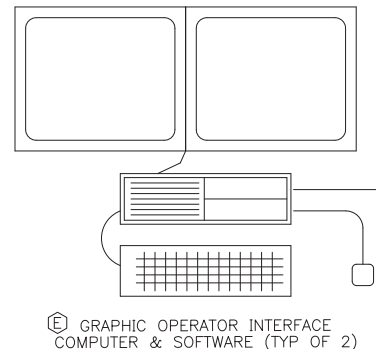
NO.	DATE	REVISION	BY
DESIGNED:	GHS		
DRAWN:	MJP		
CHECKED:	GHS		
APPROVED:	GHS		

SHEET E-2
10 of 11



- CONTROL SYSTEM NOTES:**
1. SCADA RTU PROVIDES CONTROL FOR PUMPS AT HORTON, VIEW DRIVE AND BLAND CIRCLE PUMP STATIONS.
 2. RTU TOUCH PANEL PROVIDES INDICATION OF STATION STATUS, RESERVOIR TRENDING FOR LAST 15 HRS AND ALARM STATUS.
 3. SCADA VISUALIZATION SOFTWARE AT CITY SHOPS MONITORS, TRENDS AND ANNUNCIATES ALARM CONDITIONS VIA SOFTWARE BASED OPERATOR NOTIFICATION SYSTEM.
 4. RESERVOIR HIGH-HIGH / OVERFLOW FLOAT SENSOR SET 6" BELOW OVERFLOW (EL 859.5' HGL). THIS ALARM PROVIDES REDUNDANT STOP FOR PUMPS CONFIGURED TO FILL ROSEMONT TANK.
 5. STATION ENTRY TOUCH PANEL PROVIDES LOG IN FOR NON-CITY PERSONNEL ACCESSING STATION. TOUCH PANEL PROVIDES DISPLAY FOR UP TO 25 PRE-APPROVED USERS IN LIST, USER SELECTS USER NAME FROM LIST AND ENTERS FOUR DIGIT PIN TO DISABLE ALARM NOTIFICATION AT CITY SHOPS LOCATION. USER IS ALLOWED A MAXIMUM OF THREE PIN ENTRIES BEFORE ACCOUNT IS DISABLED AND NOTIFICATION PROVIDED AT CITY SHOPS.

- NOTES:**
- (N) NEW EQUIPMENT - SEE SECTION 17000 SCOPE
 - (B) EQUIPMENT NOT INCLUDED IN SECTION 17000 SCOPE
 - (E) EXISTING EQUIPMENT, REUSE
- WIRE TYPE SPECIFICATIONS:**
- DENOTE 2 SINGLE CONDUCTORS MIN 14 GA
 - ⊘ DENOTES SHIELDED PAIR CABLE MIN 18 GA
 - ≡ BELDON 8760 OR EQUAL



PROJECT NAME: CITY OF WEST LINN, OREGON ROSEMONT RESERVOIR SAFETY AND MAINTENANCE IMPROVEMENTS		SHEET TITLE: SCADA SYSTEM MODIFICATIONS	
PROJECT NO.: 12023-008-01		DATE: JULY 2014	
DRAWN: JRB		CHECKED: RTS	
DESIGNED: RTS		APPROVED: RTS	
NO. DATE		REVISION	
BY:		SHEET	
		IC-1	
		11 OF 11	

SCALE: HORIZ: NOTICE
VERT: 0
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE