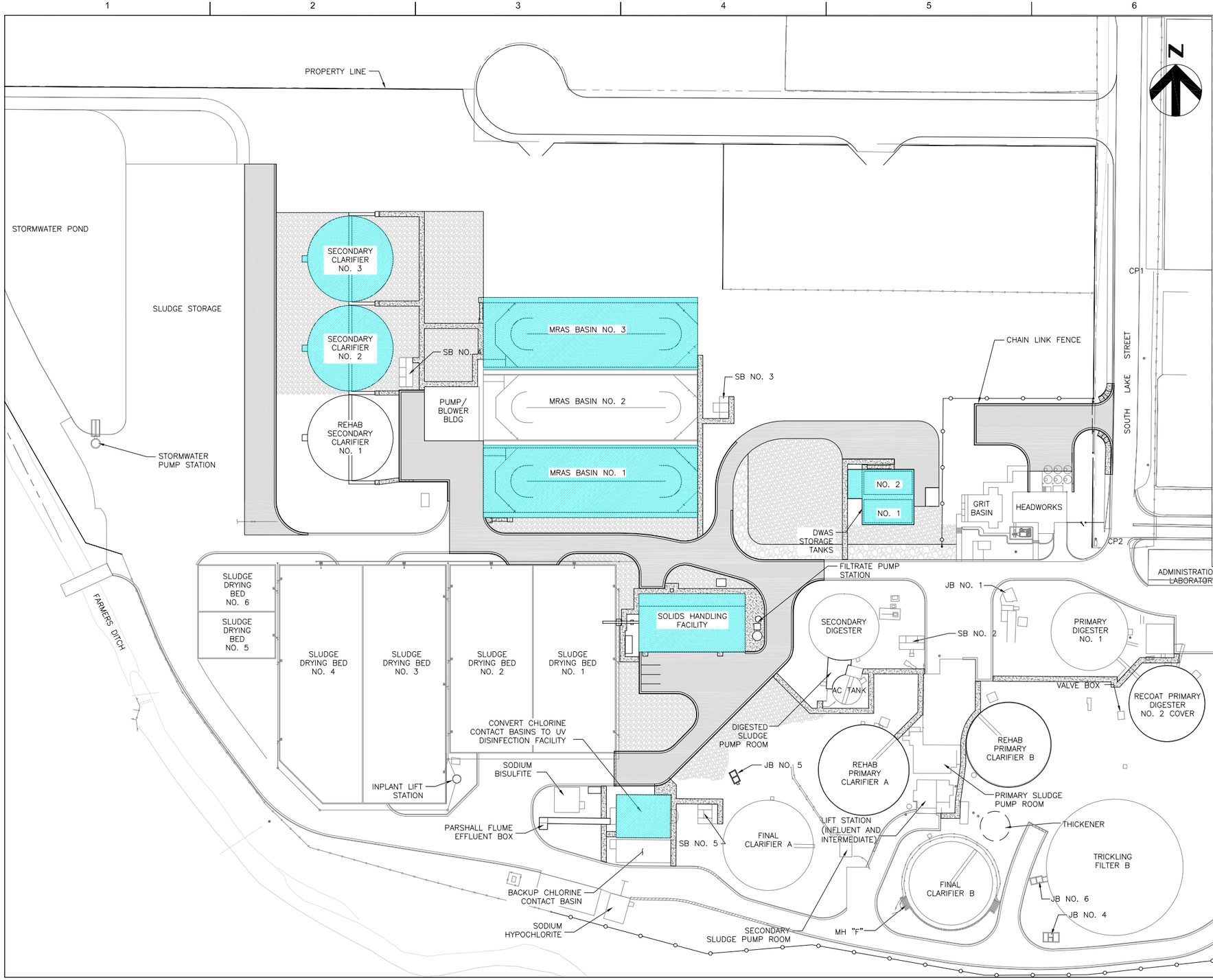

WASTEWATER TREATMENT PROCESS UNITS

HEADWORKS – FIRST STAGE OF WASTEWATER TREATMENT WHERE NON–ORGANIC MATERIAL AND GRIT IS WASHED AND REMOVED FROM THE WASTEWATER.

PRIMARY CLARIFIER – PROCESS AFTER THE HEADWORKS WHERE SETTLEABLE SOLIDS ARE REMOVED BY SEDIMENTATION.

MEDIUM RATE ACTIVATED SLUDGE (MRAS) BASIN – THE BIOLOGICAL PROCESS WHERE MICROORGANISMS METABOLIZE AND BIOLOGICALLY FLOCCULATE THE ORGANICS IN WASTEWATER.

PUMP / BLOWER BUILDING – BUILDING HOUSES PUMPS AND BLOWERS FOR THE ACTIVATED SLUDGE PROCESS. THE MOTOR CONTROL CENTER IS ALSO HOUSED IN THE PUMP / BLOWER BUILDING.

TRICKLING FILTER – FIXED–GROWTH BIOLOGICAL BEDS WHERE WASTEWATER IS SPREAD ON THE SURFACE OF MEDIA SUPPORTING MICROBIAL GROWTHS.

FINAL CLARIFIER – PROCESS AFTER BIOLOGICAL TREATMENT WHERE SETTLEABLE SOLIDS ARE REMOVED BY SEDIMENTATION.

UV DISINFECTION FACILITY – FINAL PROCESS IN WHICH TREATED EFFLUENT WATER IS DISINFECTED USING ULTRAVIOLET LIGHT BEFORE IT IS DISCHARGED TO THE RIVER.

CHLORINE CONTACT BASIN – FINAL PROCESS IN WHICH TREATED EFFLUENT WATER IS DISINFECTED USING CHLORINE BEFORE IT IS DISCHARGED TO THE RIVER.

SPLITTER BOX – FLOW CONTROL STRUCTURE WHICH SPLITS FLOWS BETWEEN BASINS. FLOW IS CONTROLLED USING SLIDE GATES.

DWAS STORAGE TANKS – STORAGE FOR WASTE ACTIVATED SLUDGE TO BE PROCESSED THROUGH THE SLUDGE THICKENING EQUIPMENT LOCATED AT THE SOLIDS HANDLING FACILITY.

SOLIDS HANDLING FACILITY – BUILDING HOUSES WASTE ACTIVATED SLUDGE THICKENING AND DIGESTED SLUDGE DEWATERING EQUIPMENT. THICKENED SLUDGE IS THEN TRANSFERRED TO THE ANAEROBIC DIGESTER PROCESSES.

PRIMARY & SECONDARY DIGESTER – ANAEROBIC SLUDGE DIGESTION WHERE ORGANICS ARE REMOVED PRIOR TO SLUDGE DISPOSAL. CARBON DIOXIDE METHANE GAS IS PRODUCED AND THEN WASTED.

SLUDGE DRYING BEDS – USED TO REMOVE WATER FROM DIGESTED SLUDGE PRIOR TO HAULING SLUDGE TO THE LANDFILL.

ISSUE	DATE	DESCRIPTION
	DEC 2015	ISSUED FOR BIDDING
–	–	–

PROJECT MANAGER	W. CHACON
DESIGNER	W. CHACON
DESIGNER	
DESIGNER	
CHECKER	
DRAWN BY	W. CHACON
PROJECT NUMBER	245971

CITY OF FARMINGTON
NEW MEXICO

WASTEWATER TREATMENT PLANT IMPROVEMENTS PHASE III

EXHIBIT

PROPOSED SITE PLAN

0 1" 2"

FILENAME 01C–02_Exhibit.dwg

SCALE NONE

SHEET **01C-02**