

PINO YARDS TRUCK WASH

CONSTRUCTION PLANS

CITY OF ALBUQUERQUE ON-CALL
PROJECT NUMBER 9044.0, TASK ORDERS #9 AND #16

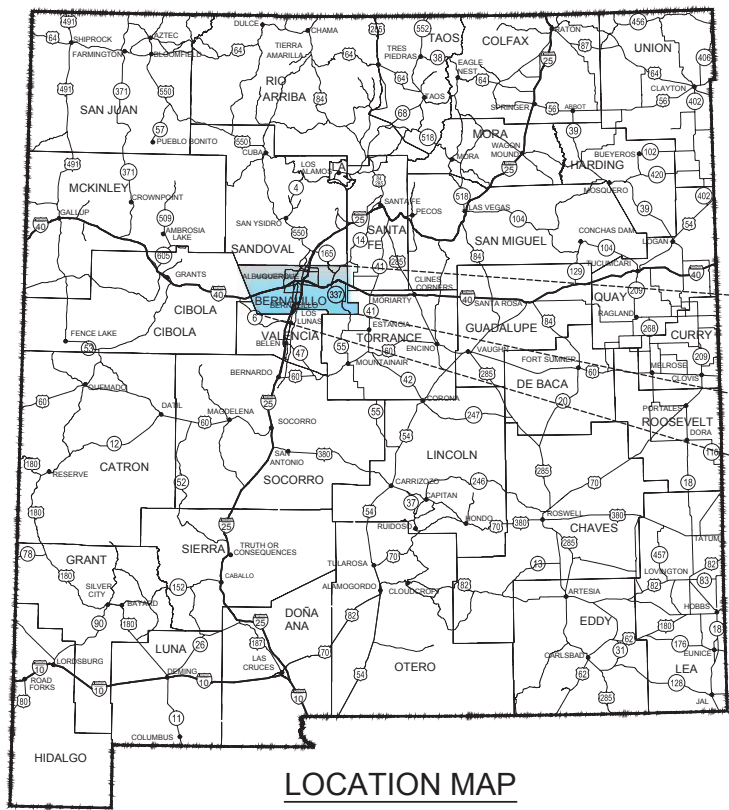


BERNALILLO COUNTY, ALBUQUERQUE, NEW MEXICO
September 2017



PROJECT DESCRIPTION:
DESIGN OF TRUCK WASH FACILITY,
SANITARY SEWER LINE, AND WATER LINE

PROJECT LOCATION
NTS



LOCATION MAP
NTS

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THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY
DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.


AMY L.D. NIESE, P.E.
PROJECT MANAGER
SEPTEMBER 6, 2017
DATE

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Rev #	Date	Description	By	Chk'd



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Cortez, Grand Junction, Lakewood, CO - Safford, AZ - Moab, UT - El Paso, TX

GENERAL NOTES

1. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER.
2. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
3. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT EASEMENTS DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCR OACH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS, CURRENT EDITION, INCLUDING WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN.
5. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS SET FORTH IN THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE ENGINEER REGARDING ANY QUESTION ARISING FROM ANY ASPECT OF THIS PROJECT NOT SPECIFICALLY COVERED IN THE PLANS AND TECHNICAL SPECIFICATIONS, OR ANY CHANGES OR CORRECTIONS TO THE PLANS AND SPECS.
6. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL (OSHA), STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P - EXCAVATIONS.
7. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, ROAD CROSSING PERMITS AND ANY OTHER PERMITS, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE OWNER OR ENGINEER.
8. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO ANY LOCAL BUSINESSES AND RESIDENTS AS REQUIRED FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND THE ENGINEER.
9. CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH ANY APPLICABLE SPECIAL SPECIFICATION AND/OR SUPPLEMENTAL SPECIFICATION, AS WELL AS THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE SPECIFIED HEREIN. TRAFFIC CONTROL IS INCIDENTAL TO THIS PROJECT.
10. AS PART OF THE TRAFFIC CONTROL PLAN AND TRAFFIC CONTROL MANAGEMENT, THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, 7 DAYS PER WEEK, TO INSPECT AND MAINTAIN DETOURS AND TRAFFIC CONTROL DEVICES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.
12. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. ALL OTHER WASTE SHALL BE DISPOSED OF AT AN APPROVED LANDFILL. ALL DISPOSAL SITES MUST BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO DISPOSAL OF ANY WASTE.
13. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPERTY OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING CONSTRUCTION.
14. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AN EQUIPMENT STORAGE YARD. THE LOCATION OF THE YARD MUST BE APPROVED BY THE OWNER. NO DIRECT PAYMENT WILL BE MADE FOR THE YARD. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SITE SECURITY.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION UNLESS OTHERWISE PROVIDED. NO DIRECT PAYMENT WILL BE MADE FOR WATER. ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL.
16. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH ESTABLISHED STANDARDS AND PROCEDURES.
17. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR.
18. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
19. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.
20. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES.
21. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS AS PER THE CONTRACT DOCUMENTS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK. THE OWNER AND ENGINEER'S PROJECT REPRESENTATIVES SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER COMPLETE AS-BUILT DRAWINGS AS PER CONTRACT DOCUMENTS. TWO SETS OF "AS-BUILT" DRAWINGS WILL BE SUBMITTED, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. ANY EXISTING UTILITIES NOT SHOWN IN THESE DRAWINGS SHALL BE LOCATED AND SHOWN IN AS-BUILT DRAWINGS.
22. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE OWNER'S PROJECT REPRESENTATIVE, NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.
23. ANY EXCEPTIONS TO PLACEMENT OR DEPTH OF MATERIALS AND EQUIPMENT MUST BE AUTHORIZED BY THE ENGINEER.
24. TESTING SHALL BE PERFORMED BY THE CONTRACTOR AS PER CONTRACT DOCUMENTS.
25. OVER-EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED TO THE

- SATISFACTION OF THE ENGINEER THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR IMPORTED FILL UNDER ANY CIRCUMSTANCES.
26. ALL FINISHED SLOPES (BOTH SIDE-SLOPES AND ALONG THE CENTERLINE) SHALL BE 4:1 OR SHALLOWER.
27. IMPORTED PADDING AND BACK FILL MATERIAL, IF REQUIRED, SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR PADDING AND BACK FILL MATERIAL OR HAUL. ALL PADDING AND BACK FILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE PADDING AND BACK FILL MATERIAL PIT IF MATERIAL IS REQUIRED TO COMPLETE THE PROJECT.
28. BACK FILL DENSITY TESTS SHALL BE PERFORMED AS PER SPECIFICATIONS. MINIMUM REQUIREMENTS ARE HORIZONTALLY FOR EACH 100 LINEAR FEET OF PIPELINE, OR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACK FILL. ADDITIONAL COMPACTION TESTS SHALL ALSO BE TAKEN EVERY 3 VERTICAL FEET OF BACK FILL.
29. CONTRACTOR SHALL WARRANTEE ALL MATERIALS AND LABOR FOR A PERIOD OF NOT LESS THAN 12 MONTHS FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT.

EROSION CONTROL NOTES:

1. STORM WATER POLLUTION PREVENTION PLANS AND EROSION CONTROL SHALL BE IMPLEMENTED BY CONTRACTOR TO PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION ACTIVITIES.
2. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND SHALL BE KEPT IN PLACE UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT IS REQUIRED ONCE SILT AND SEDIMENT HAS REACHED HALF THE HEIGHT OF THE SILT FENCE.
3. EROSION CONTROL DEVICES SHALL BE CHECKED AND MAINTAINED PER USEPA REQUIREMENTS AND THE GENERAL CONSTRUCTION PERMIT.

ENVIRONMENTAL NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS IMPOSED BY THE NEW MEXICO ENVIRONMENTAL DEPARTMENT (NMED) AND ANY OTHER AGENCY WITH JURISDICTION OVER THE PROJECT AREA.
2. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE PROJECT MANAGER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE PROJECT ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.

DEFINITIONS

THE FOLLOWING DEFINITIONS SHALL APPLY TO THE PROJECT





















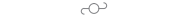









- | | |
|---------------|---|
| 1. OWNER | CITY OF ALBUQUERQUE |
| 2. ENGINEER | SOUDER MILLER & ASSOCIATES |
| 3. CONTRACTOR | THE CONTRACTOR OR GENERAL CONTRACTOR NAMED IN THE CONSTRUCTION CONTRACT WITH OWNER. |

ABBREVIATIONS












ADS	ADVANCE DRAINAGE SYSTEM	HDPE	HIGH DENSITY POLYETHYLENE	SD	STORM DRAIN
BOS	BOTTOM OF SWALE	HP	HIGH POINT	SDR	STANDARD DIMENSION RATIO
BW	BOTTOM WALL	INV	INVERT	SSMH	SANITARY SEWER MANHOLE
CONC	CONCRETE	LF	LINEAR FEET	ST	SEPTIC TANK
C/L	CENTERLINE	LT	LEFT	STCMP	STORMWATER CMP
EL	ELEVATION	ME	MATCH EXISTING	SW	SIDEWALK
EOA	EDGE OF ASPHALT	MIN	MINIMUM	TA	TOP ASPHALT
EOC	EDGE OF CONCRETE	NTS	NOT TO SCALE	TBC	TOP BACK CURB
EXIST	EXISTING	PC	POINT OF CURVATURE	TOC	TOP OF CONCRETE
ESMT	EASEMENT	PEX	CROSS-LINKED POLYETHYLENE	TOS	TOP OF SWAKE
FF	FINISH FLOOR	PT	POINT OF TANGENT	TOP	TOP OF PIPE
FL	FLOWLINE	PVC	POLYVINYL CHLORIDE PIPE	TW	TOP WALL
GB	GRADE BREAK	RT	RIGHT	VG	VALLEY GUTTER
GV	GATE VALVE	ROW	RIGHT OF WAY		

LEGEND

EXISTING FEATURES

	OVERHEAD ELECTRIC
	BUILDING
	FENCE
	BACK OF CURB
	GUTTER
	FACE OF CURB
	MISCELLANEOUS ROAD
	FENCE GATE
	BLOCK WALL
	UNDERGROUND ELECTRIC
	EDGE OF PAVEMENT
	SANITARY SEWER
	STORM DRAIN
	STORM STRUCTURE
	MAJOR CONTOUR
	MINOR CONTOUR
	WASH RACK
	WATER LINE
	IRRIGATION LINE
	POWER POLE
	GUY WIRE
	SANITARY SEWER MANHOLE
	BOLLARD
	IRRIGATION WELL
	DROP INLETS
	WATER VALVE
	FIRE HYDRANT
	STOP SIGN
	CONTROL POINT
	STORM DRAIN MANHOLE

PROPOSED IMPROVEMENTS

	WATERLINE
	4" AND 8" SEWER LINES
	DRAINAGE FLOW DIRECTION
	FIRE HYDRANT ASSEMBLY
	GATE VALVE & THRUST BLOCK
	CAP & THRUST BLOCK
	SANITARY SEWER/DRAINAGE CLEANOUT
	SANITARY SEWER MANHOLE
	WATER METER
	PROPOSED TOPO MAJOR, 1' INTERVAL
	PROPOSED TOPO MINOR, 1' INTERVAL

BENCHMARK

HORIZONTAL AND VERTICAL CONTROL IS BASED ONMODIFIED STATE PLANE COORDINATE SYSTEM NEW MEXICO CENTRAL ZONE US 83. SEE SHEET C-2 FOR LOCATION OF CONTROL POINT.



CONTROL

THE CONTRACTOR SHALL ESTABLISH AND PRESERVE SECONDARY HORIZONTAL AND VERTICAL CONTROL.

INCIDENTAL NOTES

1. ADJUST EXISTING MANHOLES AND VALVE BOXES TO GRADE
2. MEETINGS TO COORDINATE WITH UTILITY COMPANIES.

SPECIFICATIONS

1. CITY OF ALBUQUERQUE PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS, CURRENT EDITION.
2. STRUCTURAL STANDARDS
3. AASHTO

ENGINEER



AMY L. D. NIESE
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3451 CANDELARIA RD. NE, SUITE D
ALBUQUERQUE, NEW MEXICO 87107-1948
(505) 299-0942

OWNER

CITY OF ALBUQUERQUE PINO YARDS
5501 SAN FRANCISCO NE
ALBUQUERQUE, NEW MEXICO 87109

EMERGENCY CONTACT NUMBERS

FIRE/POLICE/AMBULANCE	911
POISON CONTROL	1-800-222-1222
NMED (HAZARDOUS SPILLS)	(505) 827-9329

CITY OF ALBUQUERQUE	ALBUQUERQUE, NEW MEXICO	 SOUDER, MILLER & ASSOCIATES Engineering • Environmental • Surveying Serving the Southwest & Rocky Mountains 5454 Venice Avenue NE, Suite D Albuquerque, NM 87113 Phone (505) 299-0942 Toll-Free (877) 299-0942 Fax (505) 293-3430 www.soudermiller.com	Rev #	Date	Description	By	Chkd	
PINO YARDS TRUCK WASH ALBUQUERQUE, NEW MEXICO GENERAL NOTES, LEGEND, AND ABBREVIATIONS			Designed ALDN		Drawn SFG	Checked HM	Date: September 2017	
Scale: Horiz: - Vert: -			Project No: 7423759/TASK 9		Sheet: G-2			

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED



SOLIDS AND OIL INTERCEPTOR PRE-TREATMENT SYSTEM TECHNICAL SPECIFICATION

1.0 GENERAL

1.1 THIS SPECIFICATION SHALL GOVERN THE FURNISHING AND INSTALLATION OF THE SOLIDS AND OIL INTERCEPTOR PRE-TREATMENT SYSTEM (HEREAFTER REFERRED TO AS "PRE-TREATMENT SYSTEM") COMPLETE AND OPERABLE AS SHOWN AND AS SPECIFIED HEREIN, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS AND CONTRACT DOCUMENTS.

1.2 THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL THE PRE-TREATMENT SYSTEM AND APPURTENANCES SPECIFIED IN THE DRAWINGS AND THESE SPECIFICATIONS.

1.3 THE MANUFACTURER OF THE PRE-TREATMENT SYSTEM SHALL BE ONE THAT IS REGULARLY ENGAGED IN THE ENGINEERING DESIGN AND PRODUCTION OF SYSTEMS DEPLOYED FOR THE TREATMENT OF BOTH WASTEWATER FROM WASHING HEAVY OPERATING EQUIPMENT (I.E. DUMP TRUCKS, GRADERS, ETC.) AND STORM WATER RUNOFF FOR AT LEAST FIVE (5) YEARS AND WHICH HAVE A HISTORY OF SUCCESSFUL PRODUCTION, ACCEPTABLE TO THE ENGINEER.

1.4 ALL COMPONENTS SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AT THE PLACE OF MANUFACTURE AND/OR INSTALLATION. ALL COMPONENTS ARE SUBJECT TO BEING REJECTED OR IDENTIFIED FOR REPAIR IF THE QUALITY OF MATERIALS AND MANUFACTURING DO NOT COMPLY WITH THE REQUIREMENTS OF THIS SPECIFICATION. COMPONENTS WHICH HAVE BEEN IDENTIFIED AS DEFECTIVE MAY BE SUBJECT FOR REPAIR WHERE FINAL ACCEPTANCE OF THE COMPONENT IS CONTINGENT ON THE DISCRETION OF THE ENGINEER.

1.5 THE MANUFACTURER SHALL GUARANTEE THE PRE-TREATMENT SYSTEM COMPONENTS AGAINST ALL MANUFACTURER ORIGINATED DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE THE COMPONENTS ARE DELIVERED TO THE OWNER FOR INSTALLATION. THE MANUFACTURER SHALL UPON ITS DETERMINATION REPAIR, CORRECT OR REPLACE ANY MANUFACTURER ORIGINATED DEFECTS ADVISED IN WRITING TO THE MANUFACTURER WITHIN THE REFERENCED WARRANTY PERIOD. THE USE OF PRE-TREATMENT SYSTEM COMPONENTS SHALL BE LIMITED TO THE APPLICATION FOR WHICH IT WAS SPECIFICALLY DESIGNED.

1.6 MANUFACTURER TO PROVIDE A WRITTEN TECHNICAL MANUAL FOR THE SYSTEM THAT INCLUDES EQUIPMENT SUMMARY, OPERATIONAL PROCEDURES, PREVENTIVE MAINTENANCE PROCEDURES AND SCHEDULES, PARTS LIST, SHOP DRAWINGS, SAFETY ISSUES.

1.7 NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD. SUBMISSIONS FOR SUBSTITUTIONS REQUIRE REVIEW AND APPROVAL BY THE ENGINEER OF RECORD FOR HYDRAULIC PERFORMANCE, IMPACT TO PROJECT DESIGNS, EQUIVALENT TREATMENT PERFORMANCE, AND ANY REQUIRED PROJECT PLAN AND REPORT (HYDROLOGY/HYDRAULIC, WATER QUALITY, STORMWATER POLLUTION) MODIFICATIONS THAT WOULD BE REQUIRED BY THE APPROVING JURISDICTIONS/AGENCIES. CONTRACTOR TO COORDINATE WITH THE ENGINEER OF RECORD ANY APPLICABLE MODIFICATIONS TO THE PROJECT ESTIMATES OF COST, BONDING AMOUNT DETERMINATIONS, PLAN CHECK FEES FOR CHANGES TO APPROVED DOCUMENTS, AND/OR ANY OTHER REGULATORY REQUIREMENTS RESULTING FROM THE PRODUCT SUBSTITUTION.

2.0 MATERIALS

2.1 HOUSING UNIT OF PRE-TREATMENT SYSTEM DEVICE SHALL BE CONSTRUCTED OF PRE-CAST OR CAST-IN-PLACE CONCRETE. NO EXCEPTIONS. PRECAST CONCRETE COMPONENTS SHALL CONFORM TO APPLICABLE SECTIONS OF ASTM C 478, ASTM C 857 AND ASTM C 856 AND THE FOLLOWING:

2.1.1 CONCRETE SHALL ACHIEVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE-INCH (PSI).

2.1.2 UNLESS OTHERWISE NOTED, THE PRECAST CONCRETE SECTIONS SHALL BE DESIGNED TO WITHSTAND LATERAL EARTH AND AASHTO H-20 TRAFFIC LOADS.

2.1.3 CEMENT SHALL BE TYPE III PORTLAND CEMENT CONFORMING TO ASTM C 150.

2.1.4 AGGREGATES SHALL CONFORM TO ASTM C 33.

2.1.5 REINFORCING STEEL SHALL BE DEFORMED BILLET-STEEL BARS, WELDED STEEL WIRE OR DEFORMED WELDED STEEL WIRE CONFORMING TO ASTM A 615, A 185, OR A 497.

2.1.6 JOINTS SHALL BE SEALED WITH PREFORMED JOINT SEALING COMPOUND CONFORMING TO ASTM C 990.

2.1.7 SHIPPING OF COMPONENTS SHALL NOT BE INITIATED UNTIL A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IS ATTAINED OR FIVE (5) CALENDAR DAYS AFTER FABRICATION HAS EXPIRED, WHICHEVER OCCURS FIRST.

2.2 INTERNAL COMPONENTS AND APPURTENANCES SHALL CONFORM TO THE FOLLOWING:

2.2.1 SCREEN AND SUPPORT STRUCTURE SHALL BE MANUFACTURED OF TYPE 316 AND 316L STAINLESS STEEL CONFORMING TO ASTM F 1287-01.

2.2.2 HARDWARE SHALL BE MANUFACTURED OF TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 320.

2.2.3 FIBERGLASS COMPONENTS SHALL CONFORM TO THE ASTM D-4067.

2.2.4 ACCESS SYSTEM(S) CONFORM TO THE FOLLOWING:

2.2.5 MANHOLE CASTINGS SHALL BE DESIGNED TO WITHSTAND AASHTO H-20 LOADINGS AND MANUFACTURED OF CAST IRON CONFORMING TO ASTM A 48 CLASS 30.

3.0 PRODUCTS

3.1 MATERIALS SPECIFIED ARE THOSE THAT HAVE BEEN EVALUATED FOR THE SPECIFIC SERVICE. PRODUCTS OF THE RINKER COMPANY ARE LISTED TO ESTABLISH A STANDARD OF QUALITY. EQUIVALENT MATERIALS OF OTHER MANUFACTURERS MAY BE SUBMITTED ON WRITTEN APPROVAL OF THE ENGINEER.

3.2 ANY MATERIAL SAVINGS SHALL BE PASSED TO THE OWNER IN THE FORM OF A CONTRACT DOLLAR REDUCTION.

3.3 ACCEPTABLE MANUFACTURERS

3.3.1 RINKER

3.3.2 ENGINEER APPROVED EQUAL

4.0 PERFORMANCE

4.1 THE PRE-TREATMENT SYSTEM SHALL BE SIZED TO EITHER ACHIEVE AN 80 PERCENT (80%) AVERAGE ANNUAL REDUCTION IN THE TOTAL SUSPENDED SOLID LOAD OR TREAT A FLOW RATE DESIGNATED BY THE JURISDICTION IN WHICH THE PROJECT IS LOCATED.

4.2 THE PRE-TREATMENT SYSTEM SHALL BE SIZED TO INTERCEPT OIL, GREASE AND SOLIDS FROM A MINIMUM FLOW OF 7 GALLONS PER MINUTE (GPM) AND BYPASS A MAXIMUM FLOW OF 100 GPM FROM A 25-YEAR STORM EVENT.

4.3 THE PRE-TREATMENT SYSTEM SHALL BE DESIGNED TO CAPTURE AND RETAIN TOTAL PETROLEUM HYDROCARBONS GENERATED BY WET-WEATHER FLOW AND DRY-WEATHER GROSS SPILLS.

4.4 THE PRE-TREATMENT SYSTEM SHALL BE COMPLETELY HOUSED WITHIN ONE STRUCTURE AND MAY NEITHER REQUIRE ELECTRICAL POWER NOR EMPLOY MECHANICAL COMPONENTS.

4.5 THE PRE-TREATMENT SYSTEM SHALL NOT EMPLOY COMPONENTS (I.E. CARTRIDGES) THAT REQUIRE REGULAR REPLACEMENT.

4.6 THE PRE-TREATMENT SYSTEM SHALL BE DESIGNED WITH A SEDIMENT COLLECTION CHAMBER FOR THE STORAGE OF CAPTURED SEDIMENTS AND OTHER NEGATIVELY BUOYANT POLLUTANTS IN BETWEEN MAINTENANCE CYCLES. THE MINIMUM STORAGE CAPACITY PROVIDED BY THE SEDIMENT COLLECTION CHAMBER SHALL BE 0.7 CUBIC YARDS. THE BOUNDARIES OF THE SEDIMENT COLLECTION CHAMBER SHALL BE LIMITED TO THAT WHICH DO NOT DEGRADE THE PRE-TREATMENT SYSTEM TREATMENT EFFICIENCY AS CAPTURED POLLUTANTS ACCUMULATE.

4.7 THE PRE-TREATMENT SYSTEM SHALL CONVEY THE FLOW FROM THE PEAK STORM EVENT OF THE DRAINAGE NETWORK, IN ACCORDANCE WITH REQUIRED HYDRAULIC UPSTREAM CONDITIONS AS DEFINED BY THE ENGINEER. IF A SUBSTITUTE PRE-TREATMENT SYSTEM IS PROPOSED, SUPPORTING DOCUMENTATION SHALL BE SUBMITTED THAT DEMONSTRATES EQUAL OR BETTER UPSTREAM HYDRAULIC CONDITIONS COMPARED TO THAT SPECIFIED HEREIN. THIS DOCUMENTATION SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW MEXICO. ALL COSTS ASSOCIATED WITH PREPARING AND CERTIFYING THIS DOCUMENTATION SHALL BE BORN SOLELY BY THE CONTRACTOR.

5.0 EXECUTION

5.1 THE CONTRACTOR SHALL EXERCISE CARE IN THE STORAGE AND HANDLING OF THE PRE-TREATMENT SYSTEM COMPONENTS PRIOR TO AND DURING INSTALLATION. ANY REPAIR OR REPLACEMENT COSTS ASSOCIATED WITH EVENTS OCCURRING AFTER DELIVERY IS ACCEPTED AND UNLOADING HAS COMMENCED SHALL BE BORNE BY THE CONTRACTOR.

5.2 THE PRE-TREATMENT SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RELATED SECTIONS OF THE CONTRACT DOCUMENTS. THE MANUFACTURER SHALL PROVIDE THE CONTRACTOR INSTALLATION INSTRUCTIONS AND OFFER ON-SITE GUIDANCE DURING THE IMPORTANT STAGES OF THE INSTALLATION AS IDENTIFIED BY THE MANUFACTURER AT NO ADDITIONAL EXPENSE. A MINIMUM OF 72 HOURS NOTICE SHALL BE PROVIDED TO THE MANUFACTURER PRIOR TO THEIR PERFORMANCE OF THE SERVICES INCLUDED UNDER THIS SUBSECTION.

5.3 THE CONTRACTOR SHALL FILL ALL VOIDS ASSOCIATED WITH LIFTING PROVISIONS PROVIDED BY THE MANUFACTURER. THESE VOIDS SHALL BE FILLED WITH NON-SHRINKING GROUT PROVIDING A FINISHED SURFACE CONSISTENT WITH ADJACENT SURFACES. THE CONTRACTOR SHALL TRIM ALL PROTRUDING LIFTING PROVISIONS FLUSH WITH THE ADJACENT CONCRETE SURFACE IN A MANNER, WHICH LEAVES NO SHARP POINTS OR EDGES.

5.4 THE CONTRACTOR SHALL REMOVE ALL LOOSE MATERIAL AND POOLING WATER FROM THE PRE-TREATMENT SYSTEM PRIOR TO THE TRANSFER OF OPERATIONAL RESPONSIBILITY TO THE OWNER.

UTILITY GENERAL NOTES

1. NO ONE WITHOUT WRITTEN PERMISSION OR DIRECT SUPERVISION FROM THE WATER AUTHORITY FIELD DIVISION SUPERVISOR MAY OPERATE ANY VALVE OR FIRE HYDRANT PER STANDARD SPECIFICATION SECTION 18.3. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER VALVE SHUTOFFS. AT LEAST SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT ABCWAIA FIELD OPERATIONS WATER DIVISION (857-4200) TO INITIATE IMPLEMENTATION OF NON-PRESSURIZED CONNECTION PLAN. AN ELECTRONIC REQUEST AND STREET MAP FOR THE WATER SHUT-OFF OR WATER TURN-ON SHALL BE SUBMITTED TO THE AUTHORITY. REQUEST FORMS AT THE FOLLOWING WEB ADDRESS: [HTTP://WWW.ABCWAIA.ORG/CONTENT/VIEW/4746](http://www.abcwaia.org/content/view/full/4746)

2. WATER SHUT-OFFS INVOLVING TRANSMISSION, MASTER PLAN, COLLECTOR, WELL, COLLECTOR, OR SAN JUAN CHAMA LINES MAY NOT BE PERMITTED DURING THE MONTHS OF MAY THROUGH SEPTEMBER DUE TO THE DEMAND ON THE SYSTEM. CONSTRUCTION SCHEDULES WILL NEED TO BE COORDINATED WITH THE WATER AUTHORITY, PLANT AND FIELD DIVISIONS WHEN THESE TYPES OF WATER LINES ARE IMPACTED. ALL SUBSURFACE WORK AROUND SAN JUAN CHAMA TRANSMISSION LINES REQUIRE SPECIAL PROCEDURES OUTLINE IN THE WATER AUTHORITY ADMINISTRATION INSTRUCTION NO. 8.

3. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 811 OR 1-800-321-2537 AND ALL LOCAL UTILITY PROVIDERS AT LEAST THREE (3) DAYS BEFORE STARTING UTILITY CONSTRUCTION.

4. THE CONTRACTOR SHALL REPORT SHUTOFFS OF ANY OR ALL CONNECTIONS TO THE OWNER AND ENGINEER AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF THE SHUT-OFFS. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF ANY SERVICE. ANY INTERRUPTION OF SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.

5. ANY UTILITIES FOR THIS PROJECT SHALL BE INSTALLED TO THE MINIMUM COVER AS SHOWN ON THE CONSTRUCTION DRAWINGS. THIS INCLUDES ANY CROSSING SERVICES OR LATERALS INSTALLED. EXCEPTIONS MUST BE AUTHORIZED BY THE ENGINEER IN WRITING.

6. CARE SHALL BE TAKEN TO MAINTAIN PROPER SEPARATION BETWEEN THE VARIOUS UNDERGROUND UTILITIES. UNDERGROUND UTILITIES INSTALLED AT AN IMPROPER LOCATION AS DETERMINED BY THE ENGINEER SHALL BE REPLACED AT THE INSTALLERS EXPENSE.

UTILITY LOCATION

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION AND VERIFICATION PER STATE LAW. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES AND THE OWNER'S REPRESENTATIVE WITH REGARD TO RELOCATING, ADJUSTING, REPLACING AND/OR REPAIRING UTILITIES DURING CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS IN RELATION TO THE PROPOSED IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMAL DELAY. DELAYS CAUSED OR COSTS INCURRED BECAUSE OF UTILITY CONFLICTS OR OTHER OBSTRUCTIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. UTILITIES SHOWN IN THESE CONSTRUCTION PLANS ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY, AND SHALL NOT BE RELIED UPON BY THE CONTRACTOR. FIELD MARKS MADE BY THE INDIVIDUAL UTILITIES SHALL OVERRIDE ANY LOCATION SHOWN IN THESE PLANS.

2. THE EXISTING UTILITIES, STRUCTURES, AND CULVERTS SHOWN ON THESE PLANS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL PERFORM A FIELD REVIEW OF THE ALIGNMENT TWO WEEKS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ALLOW APPROPRIATE TIME FOR REDESIGN IF NECESSARY. AFTER THE CONTRACTOR HAS HAD HIS SURVEYOR STAKE THE PROPOSED SEWER LINE AND THE EXISTING UTILITIES HAVE BEEN MARKED ON THE GROUND, THE CONTRACTOR SHALL CONDUCT A FIELD REVIEW OF THE SEWER LINE ALIGNMENT AS IT HAS BEEN STAKED. IF THE ALIGNMENT OF THE PROPOSED SEWER LINE WILL CREATE UTILITY CONFLICTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE ALIGNMENT CAN BE REVIEWED AND MODIFIED. IF NECESSARY, ALL MODIFICATIONS TO THE SEWER LINE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE ENGINEER. ANY CONSTRUCTION DELAYS CAUSED BY THE CONTRACTOR'S FAILURE TO PERFORM THE FIELD REVIEW, OR BY THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER OF ANY CONFLICTS TWO WEEKS PRIOR TO CONSTRUCTION SHALL BE DEEMED TO BE DELAYS CAUSED BY THE CONTRACTOR, AND THE CONTRACT TIME WILL NOT BE EXTENDED FOR SUCH DELAYS.

3. THE LOCATION OF ALL EXISTING UTILITIES, AS SHOWN ON THE CONSTRUCTION DRAWINGS, ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FINAL UTILITY LOCATION DETERMINATION IN THE FIELD DURING CONSTRUCTION. THE COST OF THIS ACTIVITY SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES TO PREVENT ANY SERVICE DISRUPTIONS.

PROTECTION OF EXISTING UTILITIES/STRUCTURES

1. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, PAVEMENT, DRAINAGE STRUCTURES AND OTHER STREET APPURTENANCES IS THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE DISTURBED, THESE ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. WHERE TRENCHING BENEATH EXISTING UTILITY LINES OCCURS, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING THE LINE DURING CONSTRUCTION AND ENSURE THAT IT IS ADEQUATELY BACKFILLED AND COMPACTED.

2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS IN THE COMPACTION EQUIPMENT OR OPERATION FOR COMPACTION REQUIREMENTS SO THAT UNDERGROUND UTILITIES AND PERMANENT STRUCTURES ARE NOT DAMAGED. THE CONTRACTOR SHALL BE RESTRICTED TO A 25 TON (MAXIMUM) NON-VIBRATORY ROLLER FOR COMPACTION IN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR PERMANENTLY DAMAGE ADJACENT STRUCTURES.

3. ALL IMPROVEMENTS (INCLUDING FENCES, DITCHES, GUARDRAIL, SIGNS, TRAFFIC CONTROL DEVICES, DRIVEWAYS, LANDSCAPING, ORNAMENTS) THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE EXISTING CONDITIONS OF THE PROJECT SITE THROUGH VIDEO, PHOTOS OR OTHER METHODS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE WATER STORAGE TANK AND WATERLINE CONSTRUCTION AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFOR.

SEWER & WATER SERVICE LINE

1. THE SEWER SERVICE LINE, WATER SERVICE LINE, AND ALL APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTIONS.

2. HORIZONTAL SEWER SERVICE LINE SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 1/4 OF AN INCH PER FOOT OR 2% TOWARDS THE POINT OF DISPOSAL.

3. EACH HORIZONTAL SEWER PIPE SHALL BE PROVIDED WITH A CLEANOUT AT ITS UPPER TERMINAL AND EACH RUN OF PIPE THAT IS MORE THAN 100 FEET IN LENGTH SHALL BE PROVIDED WITH A CLEANOUT FOR EACH 100 FEET OR FRACTION THEREOF. CLEANOUTS SHALL BE INSTALLED PURSUANT TO THE NEW MEXICO PLUMBING CODE.

4. PEX WATER SERVICE LINE SHOULD BE LAID WITH SUFFICIENT SLACK TO ACCOMMODATE CONTRACTION OF THE PIPE DUE TO COOLING, OR EXPANSION OF THE PIPE IF INSTALLED UNDER AMBIENT CONDITIONS THAT ARE COLDER THAN SOIL TEMPERATURE. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS.

5. WATER SERVICE LINES SHALL BE MARKED WITH TRACE WIRE PER ABCWA/CABQ SPECIFICATIONS AND ATTACHED WITH PLASTIC (ZIP) TIES ONLY. DO NOT USE ADHESIVE TAPE.

6. ALL INSTALLED OR OPENED WATERLINES & MATERIALS SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE AS PER ABCWA/CABQ SPECIFICATIONS.



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CITY OF ALBUQUERQUE ALBUQUERQUE, NEW MEXICO PINO YARDS TRUCK WASH ALBUQUERQUE, NEW MEXICO GENERAL NOTES, LEGEND, AND ABBREVIATIONS			
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Designed	Drawn	Checked	
ALDN	SFG	HM	
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Project No.	7423759-TASK 9		
Sheet	G-3		

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CITY OF ALBUQUERQUE	ALBUQUERQUE, NEW MEXICO
<p>PINO YARDS TRUCK WASH ALBUQUERQUE, NEW MEXICO SUMMARY OF QUANTITIES</p>	



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Project No: 7423759/TASK 9

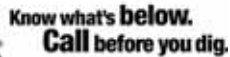
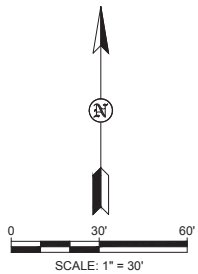
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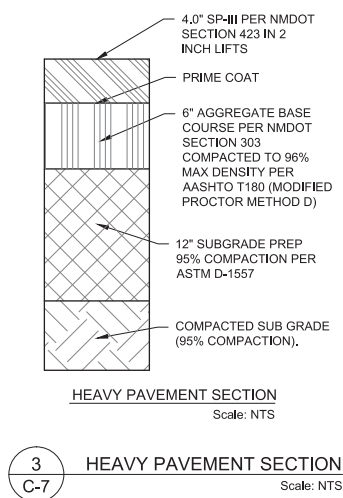
G-4

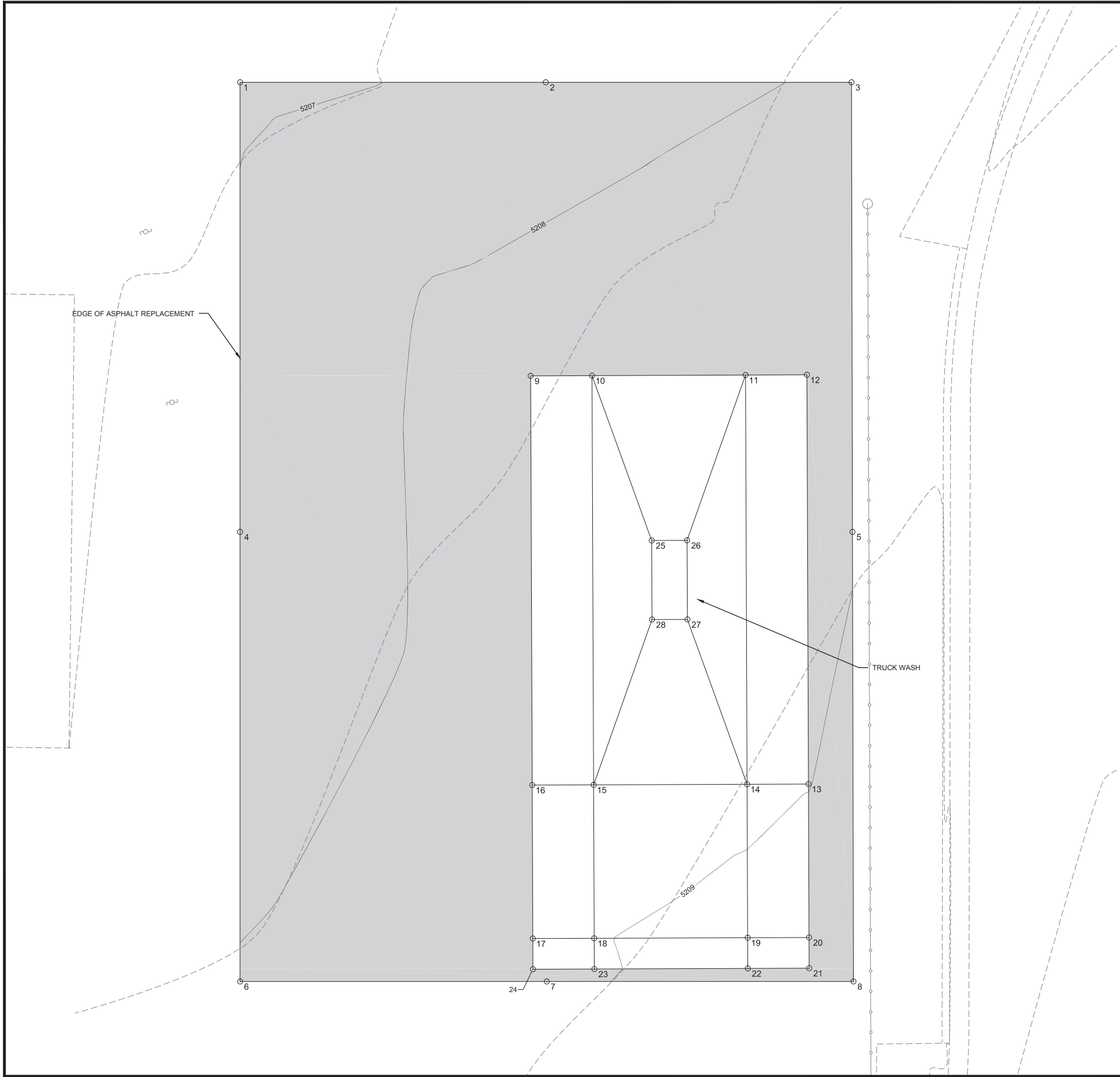


0 50' 100'

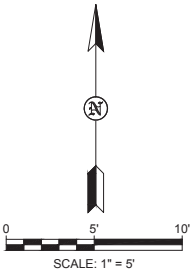
SCALE: 1" = 50'

C-2





Point Table				
POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	EA	1517566.5229	1541047.4295	5206.778
2	EA	1517566.5229	1541077.3164	5207.396
3	EA	1517566.5229	1541107.2034	5208.137
4	EA	1517522.5764	1541047.4295	5207.285
5	EA	1517522.5764	1541107.2977	5208.917
6	EA	1517478.6298	1541047.4295	5208.145
7	EA	1517478.6298	1541077.4108	5208.885
8	EA	1517478.6298	1541107.3921	5209.415
9	EC	1517537.8244	1541075.8407	5208.623
10	EC	1517537.8472	1541081.8407	5208.803
11	EC	1517537.9042	1541096.8406	5208.803
12	EC	1517537.9270	1541102.8405	5208.983
13	EC	1517497.9273	1541102.9926	5208.983
14	SLAB	1517497.9045	1541096.9927	5208.803
15	SLAB	1517497.8475	1541081.9928	5208.803
16	EC	1517497.8247	1541075.9928	5208.623
17	EC	1517482.8248	1541076.0498	5208.935
18	SLAB	1517482.8476	1541082.0498	5208.965
19	SLAB	1517482.9046	1541097.0497	5209.267
20	EC	1517482.9274	1541103.0496	5209.297
21	EC	1517479.9274	1541103.0611	5209.282
22	EC	1517479.9046	1541097.0611	5209.252
23	EC	1517479.8476	1541082.0612	5208.950
24	EC	1517479.8248	1541076.0612	5208.920
25	INLET	1517521.7339	1541087.6728	5208.706
26	INLET	1517521.7471	1541091.1311	5208.706
27	INLET	1517514.0178	1541091.1605	5208.706
28	INLET	1517514.0046	1541087.7022	5208.706



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PINO YARDS TRUCK WASH

ALBUQUERQUE, NEW MEXICO

GRADING PLAN



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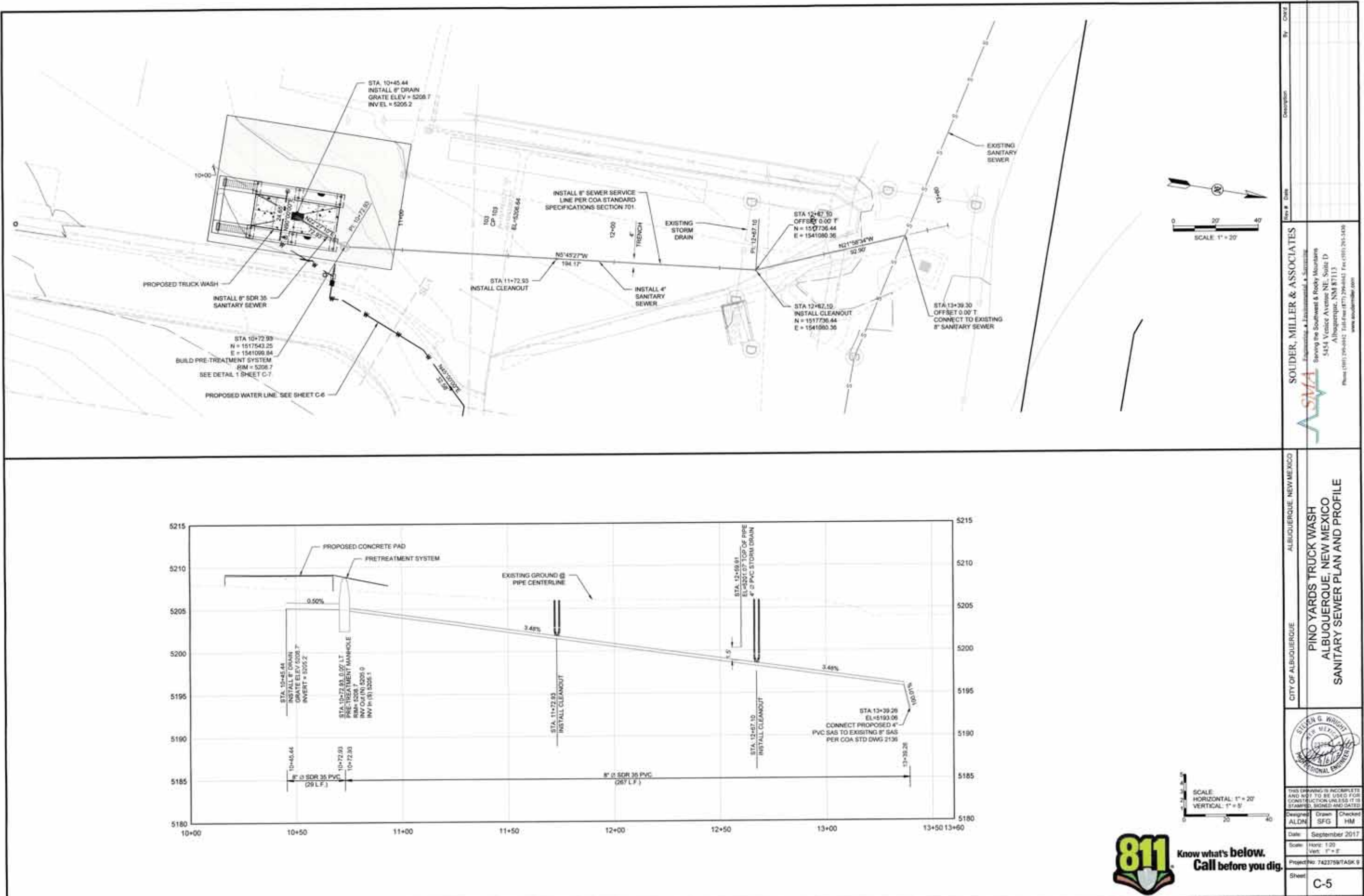
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ALDN	SFG	HM

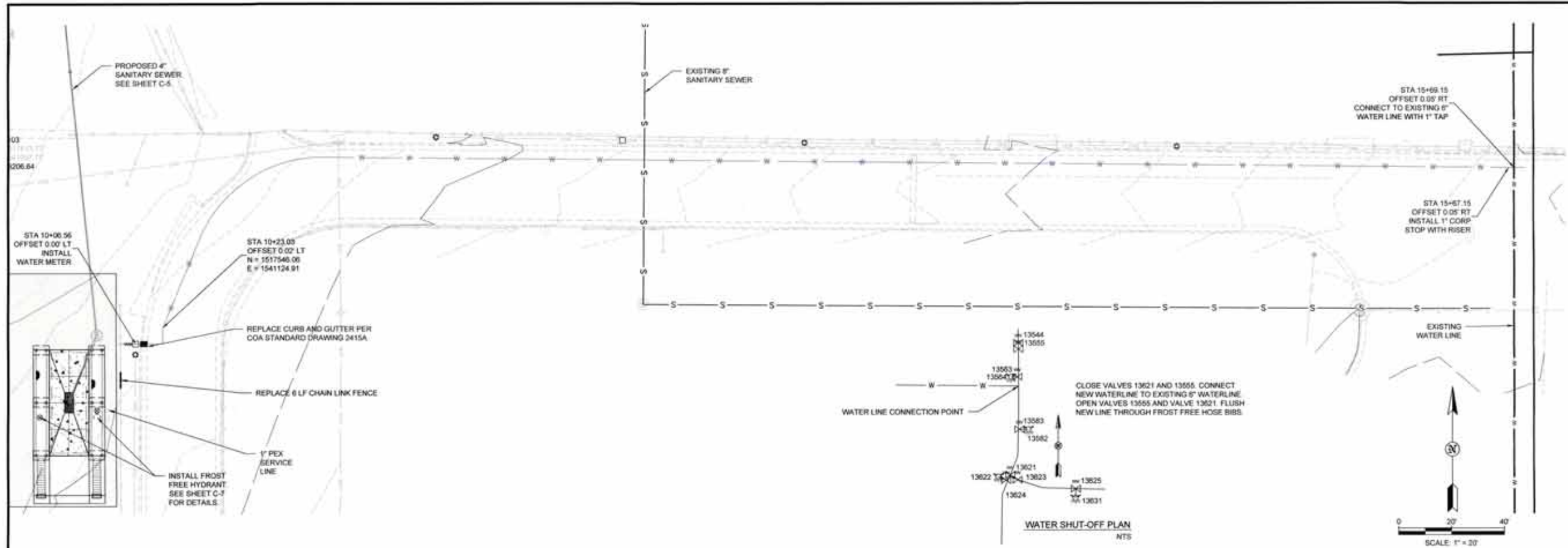
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Sheet: C-4





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PINO YARDS TRUCK WASH
ALBUQUERQUE, NEW MEXICO
WATER LINE PLAN AND PROFILE

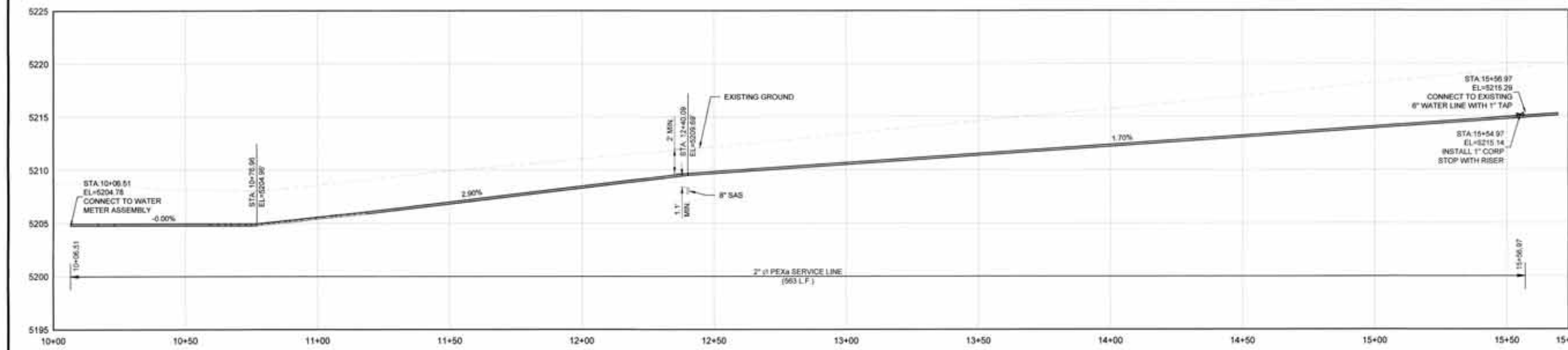


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Designed: ALDN
Drawn: SFG
Checked: HM

Date: September 2017
Scale: Horiz: 1" = 20'
Vert: 1" = 5'

Project No: 7423758 TASK 9
Sheet: C-6



GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:
INTERNATIONAL BUILDING CODE, 2015 EDITION
ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318
PROCESS INDUSTRY PRACTICES (PIP), CURRENT EDITION
- (A) SEISMIC*
SITE CLASS "D"
2. GENERAL:
A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
C. TEMPORARY PROVISIONS SHALL BE MADE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
D. REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 347.
3. MATERIALS:
A. CAST-IN-PLACE CONCRETE:
(1) ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE, ASTM TYPE II PORTLAND CEMENT. FOUNDATION CONCRETE SHALL BE DESIGNED WITH PROVISIONS OF ACI DESIGN MANUAL SECTION 3.8 CHAPTER 4.
(2) ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.
(3) NORMALWEIGHT CONCRETE:
A. $f'_c = 4000$ PSI @ 28 DAYS
(4) TO REDUCE SHRINKAGE CRACKS, LIMIT SLAB ON GRADE POURS TO 1800 SQ. FEET.
(5) CONCRETE SHALL BE MIXED AT A WATER/CEMENT RATIO LESS THAN OR EQUAL TO 0.45 AND AIR-ENTRAINED AT 4%-7% IN ACCORDANCE WITH ASTM C226-12.
B. REINFORCING STEEL:
(1) ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE STANDARD MANUAL (ACI 315).
(2) ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60; EXCEPT STIRRUPS, TIES AND FIELD-BENT BARS WHICH SHALL CONFORM TO ASTM A615 GRADE 40.
(3) WHERE LAPPED SPICES IN REINFORCING OCCUR, THE MINIMUM LAP SHALL BE MADE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:

LAP SPICE SCHEDULE		
BAR SIZE	SPICE LENGTH	
#4	2'-0"	

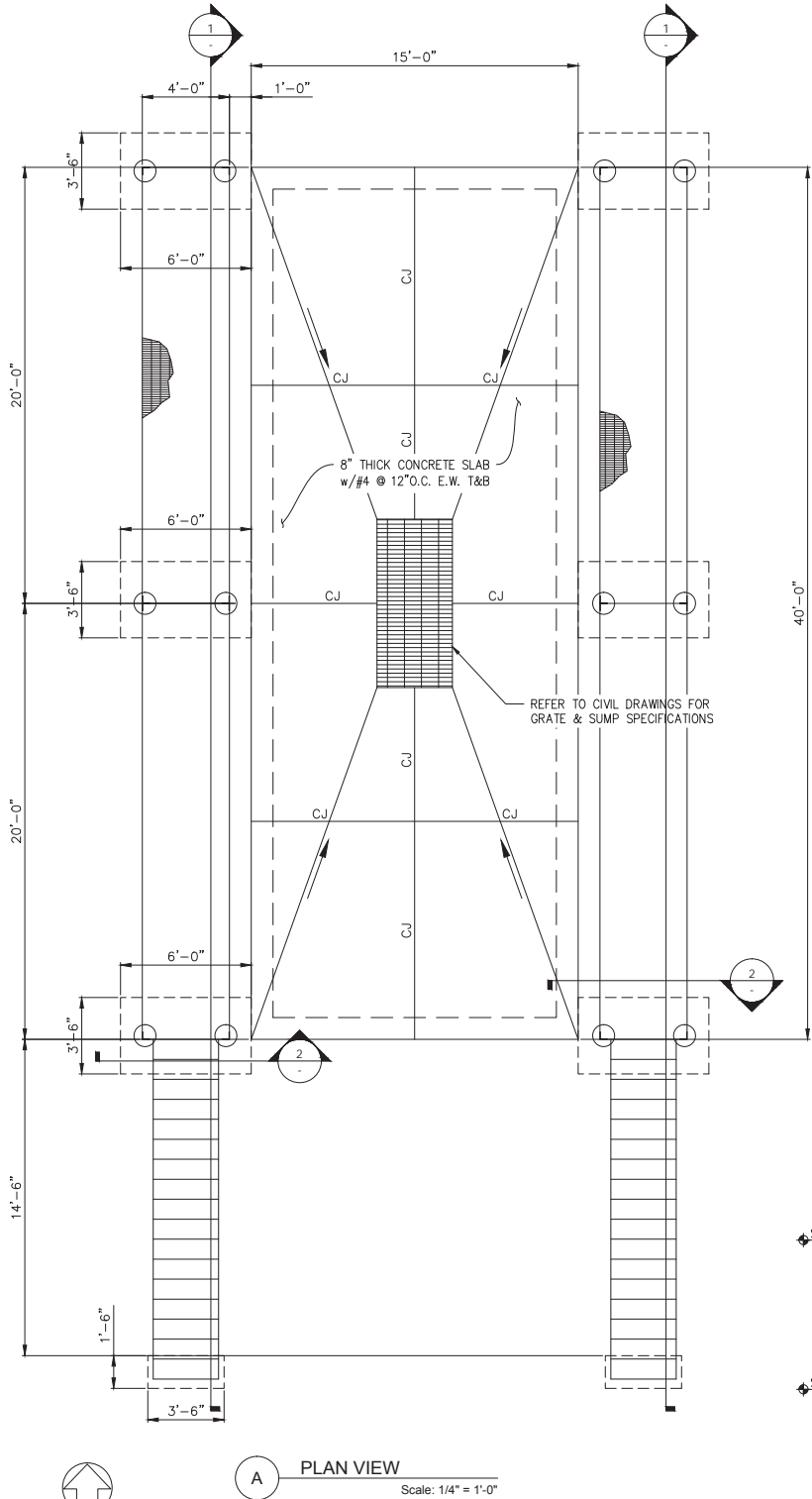
- (4) ALL HORIZONTAL REINFORCING IN FOOTINGS, WALLS AND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP AS NOTED ABOVE.
(5) CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
1. BARS LARGER THAN NO. 5.....2"
2. BARS NO. 5 OR SMALLER.....1 1/2"
(6) FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL. FOLLOWING REMOVAL OF FORM TIES, RECESSES ARE TO BE CAREFULLY FILLED AND POINTED WITH MORTAR.
(7) BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH ACI 315. CHAIRS WITH 22 GA. SAND PLATES OR PRECAST BLOCKS SHALL BE PROVIDED FOR ALL REINFORCING OF CONCRETE IN CONTACT WITH GRADE. REINFORCING SHALL BE SECURELY TIED TO SUPPORTS.
(8) REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.

4. SPECIAL INSPECTION:
A. SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE SHALL BE PERFORMED FOR THE FOLLOWING:

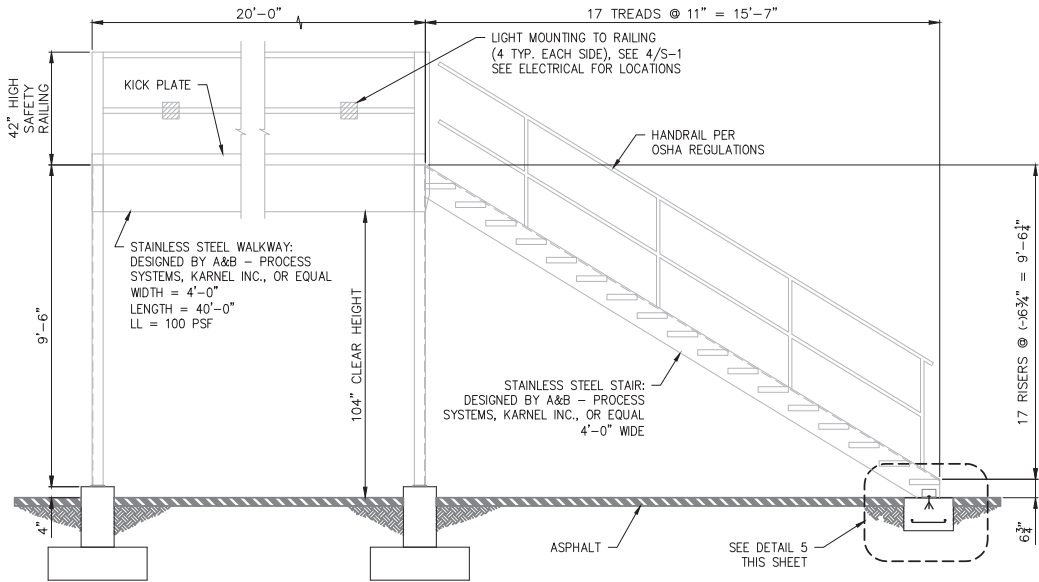
TASK	EXTENT OF MONITORING
1. SOILS COMPACTION	PERIODIC

GENERAL FOUNDATION NOTES

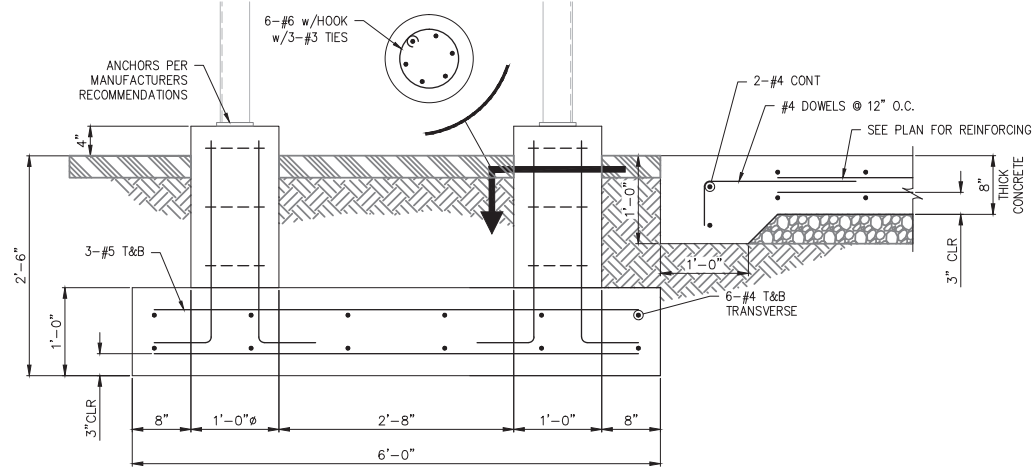
1. GENERAL:
A. ALLOWABLE SOIL BEARING PRESSURE = 1500PSF
2. FIELD OBSERVATION AND TESTS:
A. GEOTECHNICAL SERVICES PROVIDED BY OWNER. GENERAL CONTRACTOR TO COORDINATE LICENSED GEOTECHNICAL ENGINEER TO OBSERVE ALL CONTROLLED EARTHWORK. THE GEOTECHNICAL ENGINEER SHALL PROVIDE ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING CONSTRUCTION OF CONTROLLED EARTHWORK. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AT LEAST TWO WORKING DAYS IN ADVANCE OF ANY FIELD OPERATIONS OF THE CONTROLLED EARTHWORK.
B. TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
(1) ONE FIELD DENSITY TEST PER EACH 500 SQUARE YARDS OF COMPACTED SUBGRADE PRIOR TO PLACING STRUCTURAL FILL OR FLOOR SLAB CONSTRUCTION WITH A MINIMUM OF 3 TESTS.
(2) ONE FIELD DENSITY TEST PER EACH 300 CUBIC YARDS OF STRUCTURAL FILL PLACED OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
(3) ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED BY SIEVE ANALYSIS AND PLASTICITY INDEX.
C. THE GEOTECHNICAL ENGINEER SHALL SUBMIT THE RESULTS OF ALL REQUIRED TESTS.



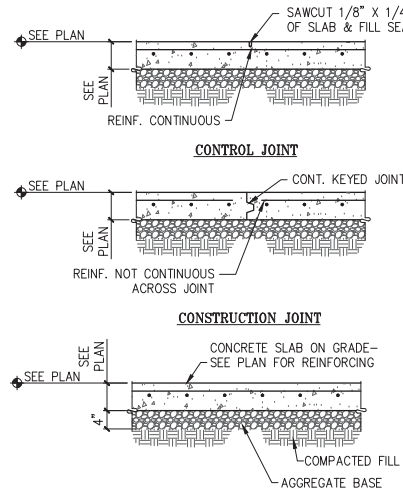
A PLAN VIEW
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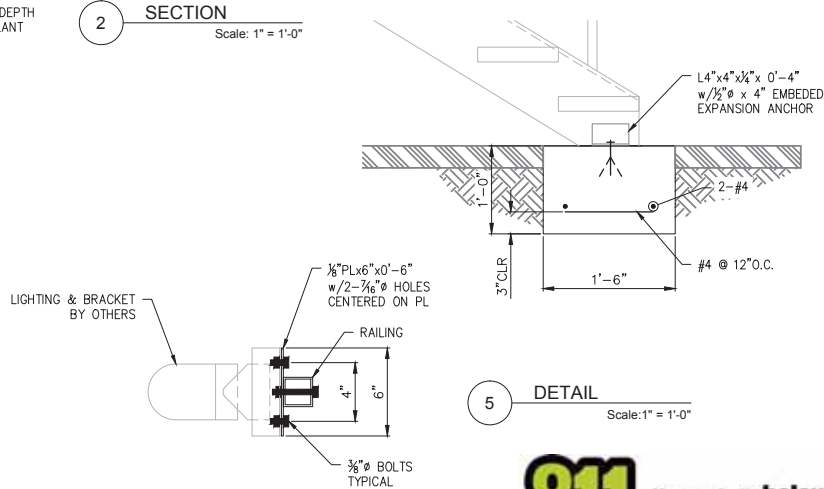
1 CATWALK & STAIR SECTION
Scale: 3/8" = 1'-0"



2 SECTION
Scale: 1" = 1'-0"



3 TYPICAL SLAB JOINTS
Scale: 1" = 1'-0"



4 LIGHTING BRACKET DETAIL
Scale: 2" = 1'-0"

5 DETAIL
Scale: 1" = 1'-0"



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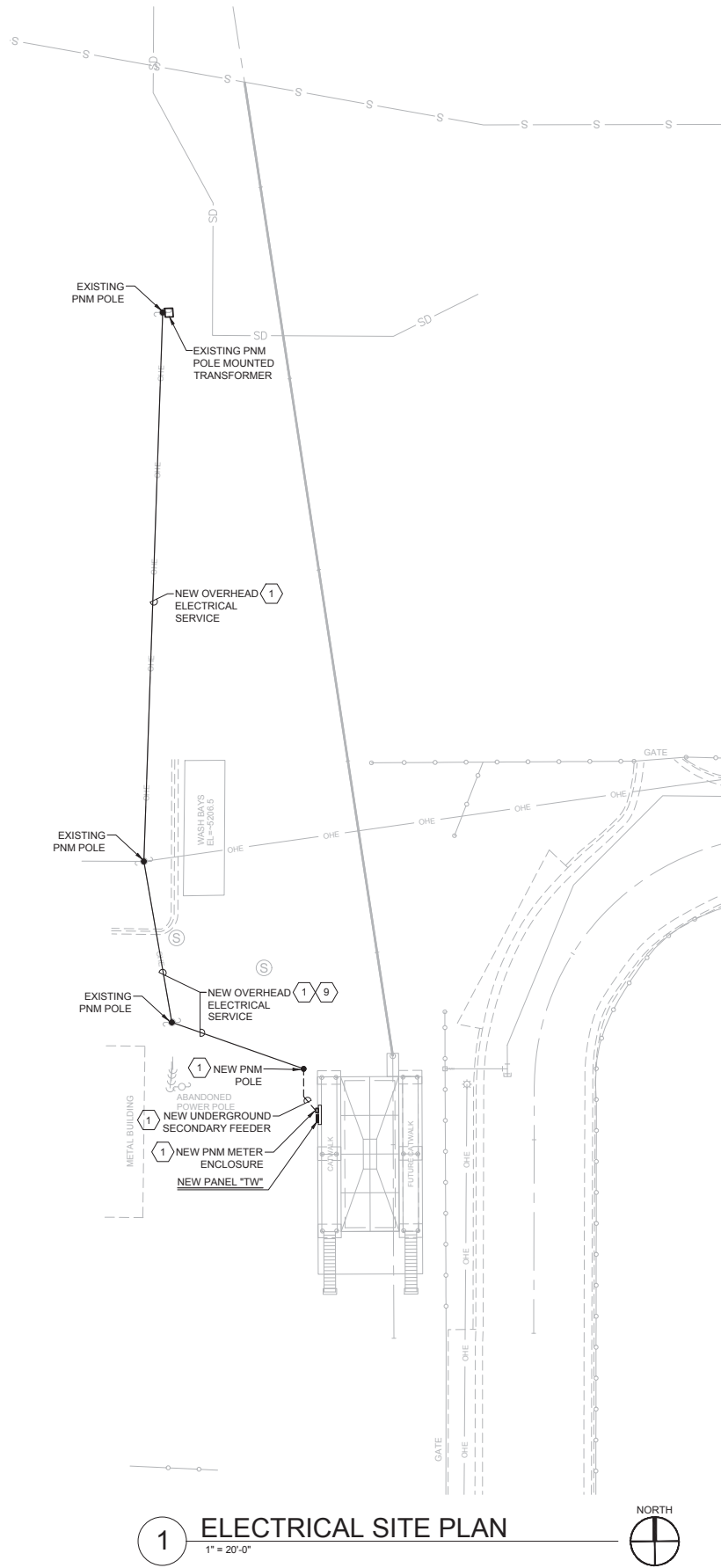
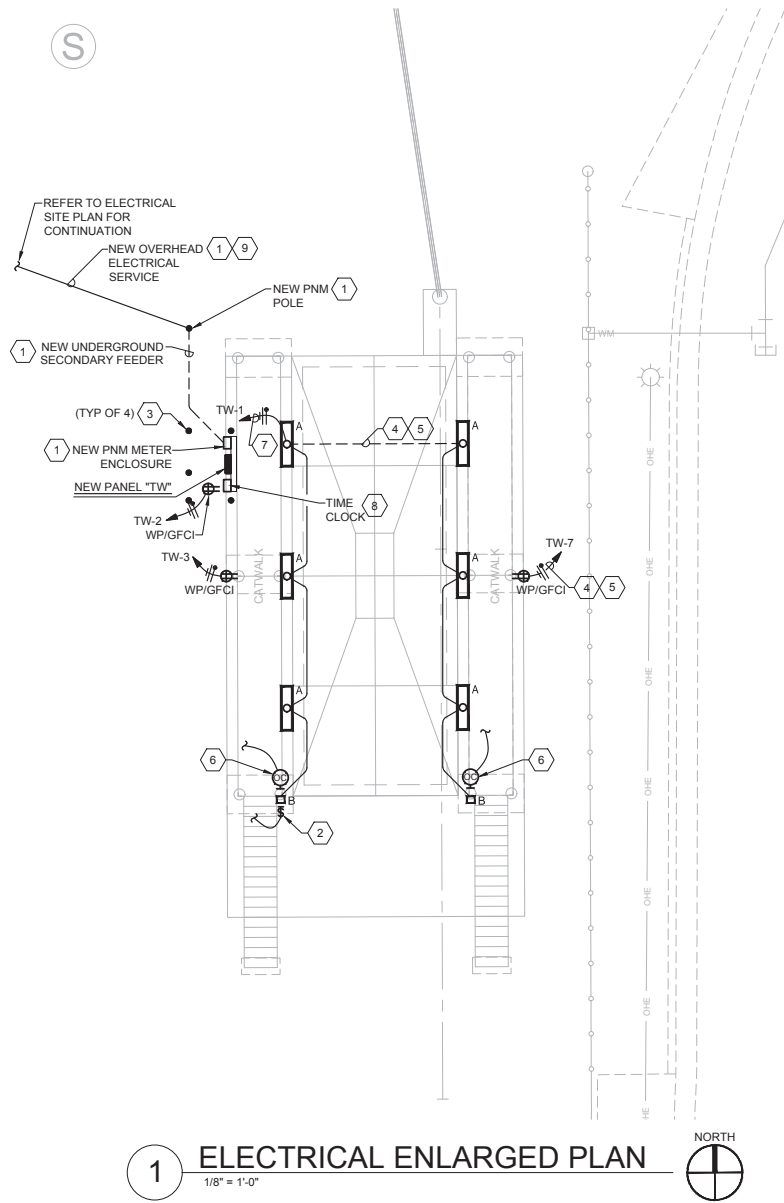
CITY OF ALBUQUERQUE

PINO YARDS TRUCK WASH
ALBUQUERQUE, NEW MEXICO
CATWALK / FOUNDATION

DETA Y. GUNTER
NEW MEXICO
13561

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Designed: GYQ Drawn: DJB Checked: GYQ
Date: September 2017
Scale: Horiz: AS NOTED
Vert: N/A
Project No: 7423759/TASK 9
Sheet: S-1



KEYED NOTES

1. REFER TO POWER RISER DIAGRAM ON SHEET E-2 FOR ADDITIONAL INFORMATION.
2. MOMENTARY PUSHBUTTON SWITCH FOR CONTROL OF CATWALK LIGHT FIXTURES. PROVIDE A WEATHER-PROOF ENCLOSURE FOR SWITCH. SURFACE MOUNT TO CATWALK POST AND MOUNT AT 48" ABOVE FINISHED GRADE. SWITCH TO ALLOW LIGHT FIXTURES TO BE ON FOR A MAXIMUM OF 2-HOURS. EXTEND 3/4" CONDUIT WITH REQUIRED CONTROL CONDUCTORS TO TIME CLOCK LOCATED ON STRUT RACK.
3. GUARD POST SHALL BE A MINIMUM OF 4" X 60" GALVANIZED RIGID CONDUIT CONCRETE FILLED. POST TO EXTEND 3'-0" ABOVE FINISHED GRADE. PROVIDE A 12" WIDE BY 24" DEEP 3000 PSI CONCRETE BASE.
4. CONDUIT SHALL BE ROUTED UNDER CONCRETE SLAB.
5. ROUTE CONDUIT A MINIMUM OF 36" BELOW GRADE.
6. SURFACE MOUNT THE WEATHER-PROOF OCCUPANCY SENSOR TO CATWALK STRUCTURE. PROVIDE WITH POWER PACK. EXTEND 3/4" CONDUIT WITH REQUIRED CONTROL CONDUCTORS TO TIME CLOCK LOCATED ON STRUT RACK. OCCUPANCY SENSOR SHALL BE WATT-STOPPER #CB-100-1 OR EQUAL. POWER PACK SHALL BE WATT-STOPPER #BZ-50 OR EQUAL. MOUNT POWER PACK IN TIME CLOCK.
7. EXTEND CIRCUIT INDICATED THROUGH TIME CLOCK.
8. REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM ON SHEET E-2 FOR ADDITIONAL INFORMATION.
9. THE VERTICAL CLEARANCE OF THE OVERHEAD SERVICE ABOVE FINISHED GRADE TO BE 18.5 FEET, PER PNM STANDARDS DRAWING DS-13-2.5.

2009 INTERNATIONAL ENERGY CONSERVATION CODE COMPLIANCE

INTERIOR LIGHTING	EXTERIOR LIGHTING
BUILDING AREA TYPE: N/A	TRADABLE WATTS ALLOWED: 448
SQUARE FOOTAGE: N/A	ACTUAL TRADABLE WATTS: 328
TOTAL WATTS ALLOWED: N/A	NONTRADABLE WATTS ALLOWED: N/A
ACTUAL WATTS: N/A	ACTUAL NONTRADABLE WATTS: N/A
	ADDITIONAL 5% ALLOWANCE: N/A

THIS PROJECT IS IN COMPLIANCE WITH 2009 IECC

THE ELECTRICAL POWER AND LIGHTING COMMERCIAL ENERGY EFFICIENCY REQUIREMENTS OF IECC 2009, CHAPTER 5 ARE MET BY ADHERING TO THE REQUIREMENTS OF ASHRAE/IESNA 90.1-2007 (2009 IECC, CHAPTER 5, SECTION 501.1)

POWER REQUIREMENTS
• FEEDER CONDUCTORS HAVE BEEN DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT.

• BRANCH CIRCUIT CONDUCTORS HAVE BEEN DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT.

INTERIOR REQUIREMENTS
• THERE IS NO INTERIOR LIGHTING ON THIS PROJECT.

EXTERIOR REQUIREMENTS
• CONSIDERING EXCEPTIONS, EXTERIOR LIGHTING IS PROVIDED WITH EITHER A PHOTOSENSOR AND TIMECLOCK COMBINATION OR AN ASTRONOMICAL TIMECLOCK CAPABLE OF TURNING OFF EXTERIOR LIGHTING WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN IN THE LIGHTING IS NOT REQUIRED DURING THE NIGHTTIME HOURS.

• UNLESS CONTROLLED BY A MOTION SENSOR, ALL 100 WATT OR MORE EXTERIOR BUILDING GROUND LUMINARIES CONTAIN LAMP THAT HAVE AN EFFICACY OF AT LEAST 60 LUMENS PER WATT.

WARNING

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY. AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY. THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE OF ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NM ONE CALL" PROCEDURES, OR OTHERWISE.



Rev #	Date	Description	By	Chkd

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CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

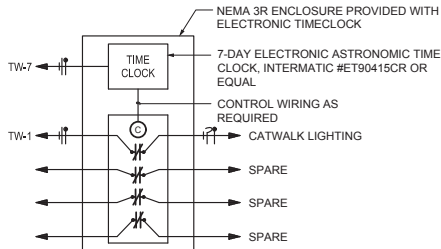
PINO YARDS TRUCK WASH
ALBUQUERQUE, NEW MEXICO
ELECTRICAL PLANS

17029 9/2017
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

DESIGNED: RW DRAWN: KND CHECKED: DDR
DATE: September 2017
SCALE: HORIZ VERT:
PROJECT NO: 7423759/TASK 9
SHEET: E-1

PANEL: "TW"		VOLTAGE: 120/240V-1Ø-3W				MAINS: 100 AMP		AIC: 10,000	
SOURCE:..		SKIRTS: N/A		FEED: BOTTOM		MAIN BREAKER: 60A/3P		MOUNTING: SURFACE	
DESCRIPTION		BRKR	LOAD (VA)	CCT NO	LOAD (VA) ØA ØB	CCT NO	LOAD (VA)	BRKR	DESCRIPTION
LIGHTING		20A/1P	328	1	1828	2	1500	20A/1P	RECEPTACLE
RECEPTACLE		20A/1P	1500	3	1500	4	1P	1P	RECEPTACLE
TIME CLOCK		20A/1P	200	5	200	6	1P	1P	SPACE ONLY
RECEPTACLE		20A/1P	1500	7	1500	8	1P	1P	SPACE ONLY
SPACE ONLY		1P	-	9	-	10	1P	1P	SPACE ONLY
SPACE ONLY		1P	-	11	-	12	1P	1P	SPACE ONLY
TOTAL LOAD (VA)		2,028		3,000		NEMA 3R ENCLOSURE DOOR-IN-DOOR GROUND BUS			
TOTAL CONNECTED (KVA): 5.0		ESTIMATED DEMAND (KVA):							

LOAD SUMMARY-PANEL "TW"	
DESCRIPTION	
PANELBOARD "TW" ESTIMATED DEMAND PER NEC 220	
RECEPTACLES (4.5 KVA CONN) FIRST 10 KVA AT 100% REMAINING AT 50%	4.5 KVA
LIGHTING (0.3 KVA CONN) AT 125% (CONTINUOUS LOAD)	0.3 KVA
EQUIPMENT (0.2 KVA CONN) AT 100%	0.2 KVA
TOTAL ESTIMATED LOAD:	5.0 KVA
21 AMPERES AT 120/240V1Ø-3W	
MINIMUM RECOMMENDED SERVICE SIZE =	60 AMPS



EXTERIOR LIGHTING CONTROL
SCALE: NONE

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	LED OUTLET AND FIXTURE
	MOMENTARY PUSHBUTTON SWITCH, WEATHER-PROOF ENCLOSURE, SURFACE MOUNTED 48" A.F.F.
	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
	DUPLEX CONVENIENCE OUTLET, GROUND FAULT CIRCUIT INTERRUPTER, 18" A.F.F.
	CONCEALED BRANCH CIRCUIT WITH CONDUCTORS AS INDICATED. NEUTRAL, HOT, SWITCH LEG AND GROUND RESPECTIVELY
	BRANCH CIRCUIT OR CONDUIT INSTALLED UNDERGROUND OR UNDER FLOOR
	HOMERUN TO PANELBOARD WITH BRANCH CIRCUIT NUMBERS INDICATED
	TRANSFORMER, DRY TYPE, SIZE AS INDICATED
	120V PANELBOARD, REFER TO PANEL SCHEDULE
	CIRCUIT BREAKER
WP	WEATHERPROOF (NEMA 3R)
EX	EXISTING
R	REMOVE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
A.F.F.	ABOVE FINISHED FLOOR
U.N.O.	UNLESS NOTED OTHERWISE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED

- NOTES:
- LIGHTING FIXTURES ARE OF TYPE AS INDICATED ON LIGHT FIXTURE SCHEDULE U.N.O.
 - MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 18" A.F.F. ARE TO THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED.
 - MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 48" A.F.F. ARE TO THE TOP OF THE DEVICE UNLESS OTHERWISE NOTED.
 - ANY SPECIFIC DETAILS ABOVE (MOUNTING HEIGHTS, PART NUMBERS, CONNECTION METHODS, ETC.) MAY BE MODIFIED OR REPLACED BY INFORMATION ON PLANS, SCHEDULES, DETAILS, RISERS, ETC. DETAILS NOT SPECIFICALLY MODIFIED REMAIN AS GIVEN ABOVE.

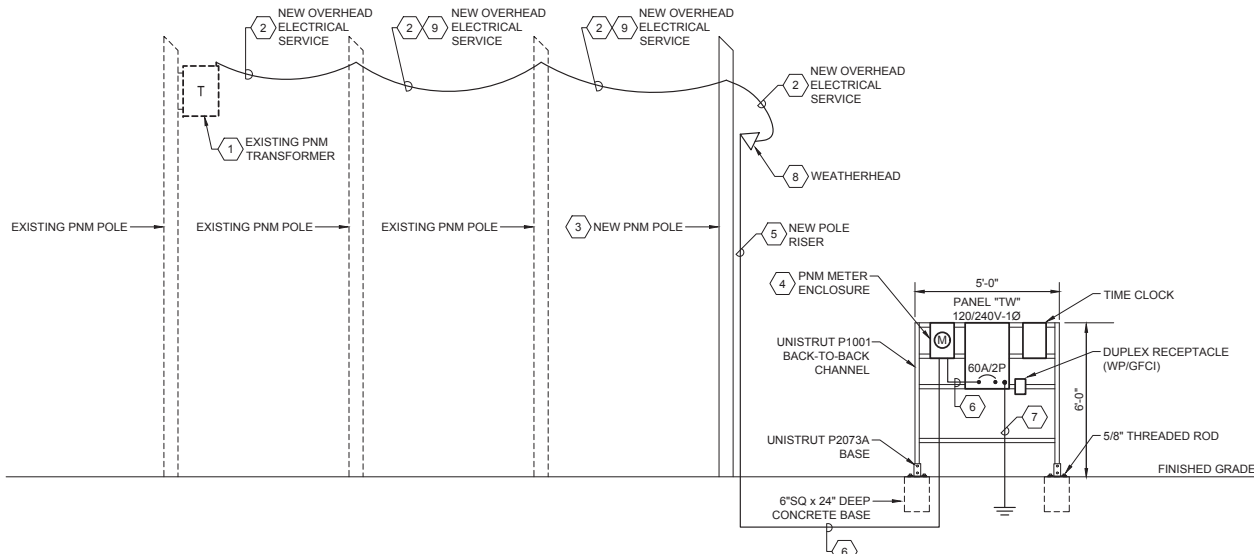
LIGHT FIXTURE SCHEDULE			
TYPE	FIXTURE DESCRIPTION	LAMPS	MOUNTING
A	4FT LINEAR FIXTURE, LED, 4300 LUMENS, LENS, WET LISTED, 10 YEAR WARRANTY, 120 VOLT KURTZON #WL-FPA-4-40-1/LEDR-840-UNV	1-41W LED 4000°K	MOUNT AT CATWALK +11'-0" A.F.F.
B	4FT LINEAR FIXTURE, LED, 2100 LUMENS, LENS, WET LISTED, 10 YEAR WARRANTY, 120 VOLT KURTZON #WL-FPA-4-40-1/LEDR-840-UNV	1-41W LED 4000°K	MOUNT VERTICALLY ON POST +9'-6" A.F.F. TO TOP

ELECTRICAL SPECIFICATIONS

- A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL FACILITIES IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES, NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND IN A NEAT AND WORKMANLIKE MANNER.
- B. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE JOB SITE.
- C. ALL UNFORESEEN CONDITIONS THAT MAY AFFECT SCOPE OF WORK / CODE VIOLATIONS, DISCOVERED DURING DEMOLITION / CONSTRUCTION, SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / OWNER / ENGINEER.
- D. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL THERMOSTATS, CONTROLS AND MAKE REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.
- E. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF ALL PERMITS, TESTS AND INSPECTIONS, AND VISIT THE SITE OF WORK PRIOR TO SUBMITTING BID.
- F. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES AND REFER TO ARCHITECTURAL PLANS FOR DETERMINING THE EXACT LOCATION OF OUTLETS.
- G. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.
- H. A SET OF MARKED UP PRINTS SHALL BE PREPARED SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND TURNED OVER TO THE OWNER AT THE END OF THE CONSTRUCTION. ALL CHANGES MUST HAVE THE OWNER'S APPROVAL.
- I. ANY DISCREPANCY BETWEEN MATERIAL DESCRIPTION AND CATALOG NUMBER SHALL BE BROUGHT TO THE ARCHITECT'S, ENGINEER'S OR OWNER'S ATTENTION IMMEDIATELY.
- J. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CATALOG CUT SHEETS ON ALL ELECTRICAL DEVICES, LIGHTING FIXTURES AND EQUIPMENT WHICH MAY BE SUBSTITUTED FROM THAT SPECIFIED IN CONTRACT DOCUMENTS.
- K. INTERRUPTION OF ANY ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER AT LEAST 7 DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING WITH A COPY TO THE ARCHITECT AND OWNER.
- L. CONTRACTOR SHALL OBTAIN FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK, THE EXISTING PLANS WHICH INDICATE THE APPROXIMATE ELECTRICAL LAYOUT OF LIGHTING FIXTURES, OUTLETS, CONDUIT, WIRING, CIRCUITS, ETC.
- M. ALL CONDUCTORS TO BE #12 AWG THWN UNLESS NOTED OTHERWISE.
- N. 3% VOLTAGE DROP LIMITATION FOR BRANCH CIRCUITS: ALL 20 AMPERE, 120 VOLT BRANCH CIRCUITS (16 AMPERE MAXIMUM LOAD) FEEDER LENGTHS SHALL BE LIMITED AS FOLLOWS:
#12 AWG-61 LINEAR FT.
#10 AWG-62 TO 97 LINEAR FT.
#8 AWG-98 TO 154 LINEAR FT.
- O. BRANCH CIRCUITS CAN BE COMBINED IN THE SAME RACEWAY ONLY WHEN EACH BRANCH CIRCUIT HAS A DEDICATED NEUTRAL. REFERENCE 2014 NATIONAL ELECTRICAL CODE ARTICLE 210.4 AND ALL OTHER ASSOCIATED ARTICLES.
- P. ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. CONDUIT SHALL SERVE AS REDUNDANT GROUND ONLY.
- Q. MAINTAIN THE SAME COLOR CODING FOR 120/240V-1Ø-3W CIRCUITS THROUGHOUT.
- R. ALL POWER AND LIGHTING CONDUITS SHALL BE 3/4" MINIMUM, UNLESS NOTED OTHERWISE.
- S. CONDUITS RUN EXPOSED SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, MAKING ALL RUNS STRAIGHT AT PARALLEL OR PERPENDICULAR ANGLES TO CATWALK STRUCTURE.
- T. ALL CONDUITS WHICH COME IN CONTACT WITH EARTH SHALL BE WRAPPED IN SCOTCHRAPE-51 OR PLASTIC COATED. ALL FEEDERS AND HOMERUNS SHALL BE 1" MINIMUM.
- U. CONTRACTOR SHALL PROVIDE AND INSTALL PULLWIRE IN ANY EMPTY CONDUIT.
- V. ANY EXPOSED CONDUITS, BOXES, ETC., SHALL BE PAINTED TO MATCH WALL FINISH THAT IT IS INSTALLED ON.
- W. ALL DUPLEX RECEPTACLES SHALL BE HUBBELL #HBL5362-WHITE NEMA 5-20R AND ALL TOGGLE SWITCHES SHALL BE #HBL1221-WHITE(1-POLE) OR APPROVED EQUAL.
- X. ALL DEVICE COVERPLATES SHALL BE STAINLESS STEEL. ALL PLATES SHALL BE MARKED ON INSIDE WITH APPROPRIATE COLOR AS TO PANEL AND CIRCUIT NUMBER THIS FEEDER IS ORIGINATING FROM. PERMANENT INK PEN MAY BE USED. PAINTING OF WALL SHALL EXTEND UNDER ALL PLATES TO EDGE OF BOX CUT IN. COORDINATE WITH OTHER TRADES.
- Y. ALL PULLBOXES SHALL BE CONSTRUCTED OF CODE-GAUGE GALVANIZED SHEET METAL, NOT LESS THAN THE MINIMUM SIZE RECOMMENDED BY THE N.E.C..
- Z. PANELBOARDS SHALL HAVE A CIRCUIT BREAKER SHALL BE RATED AT 10,000 AIC MINIMUM, UNLESS NOTED OTHERWISE.
- AA. FURNISH AND INSTALL ALL CHANNELS REQUIRED FOR THE SUPPORT OF SURFACE LED LIGHTING FIXTURES.
- BB. PROVIDE ARC FLASH WARNING STICKERS PER NEC AND LOCAL AUTHORITIES.

KEYED NOTES

- COORDINATE WITH PNM IF THE EXISTING POLE MOUNTED TRANSFORMER IS ADEQUATE FOR THE ADDITIONAL LOADS.
- NEW ELECTRICAL OVERHEAD SERVICE BY PNM. COORDINATE INSTALLATION AND REQUIREMENTS WITH PNM.
- NEW PNM POWER POLE BY PNM. COORDINATE LOCATION, INSTALLATION AND REQUIREMENTS WITH PNM.
- PROVIDE AND INSTALL A 200 AMP, SINGLE PHASE METER ENCLOSURE. REFER TO PNM DRAWING MS-2-5.0 FOR REQUIREMENTS.
- PROVIDE AND INSTALL POLE RISER. REFER TO PNM DRAWING DS-7-14.0.
- 3#2 THWN Cu IN 2" CONDUIT.
- EXTEND 1#6 Cu GROUND IN 1/2" CONDUIT TO TWO 5/8" x 8'-0" COPPER OR COPPER CLAD STEEL GROUND RODS. PROVIDE GROUNING PER 2014 N.E.C. ARTICLE 250.
- LEAVE 2FT OF EXCESS CONDUCTORS AT WEATHERHEAD FOR UTILITY CONNECTION. COORDINATE WEATHERHEAD INSTALLATION AND REQUIREMENTS WITH PNM.
- THE VERTICAL CLEARANCE OF THE OVERHEAD SERVICE ABOVE FINISHED GRADE TO BE 18.5 FEET PER PNM STANDARDS DRAWING DS-13-2.5.



POWER RISER DIAGRAM



City of Albuquerque	Albuquerque, New Mexico	Pinoyards Truck Wash Albuquerque, New Mexico Electrical Legend, Power Riser Diagram and Notes
17029	9/2017	THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED
Designed RW	Drawn KND	Checked DDR
Date:	September 2017	
Scale:	HORIZ VERT.	
Project No:	7423759/TASK 9	
Sheet:	E-2	