

CITY OF GAHANNA
STANDARD PROJECT NOTES (Private Projects)

GENERAL NOTES:

THE CURRENT CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF GAHANNA, OHIO, SHALL GOVERN MATERIALS AND WORKMANSHIP INVOLVED IN IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT THOSE SPECIFICATIONS MODIFIED BY THE FOLLOWING SPECIFICATIONS OR CONSTRUCTION DETAILS SET FORTH HEREIN.

ALL WORK IS TO BE ACCEPTABLE TO CITY OF GAHANNA OFFICIALS. NO WORK IS TO COMMENCE UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE CITY OF GAHANNA ENGINEER FOR INSPECTION.

THE CONTRACTOR SHALL NOTIFY THE CITY OF GAHANNA ENGINEER AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

ALL PERTINENT STANDARD CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST AT THE OFFICE OF THE CITY OF GAHANNA ENGINEERS.

THE DEVELOPER IS TO SCHEDULE A PRE-CONSTRUCTION MEETING ONE BUSINESS WEEK PRIOR TO CONSTRUCTION. THE MEETING SHALL TAKE PLACE AT LEAST ONE BUSINESS WEEK PRIOR TO THE FOLLOWING: SITE CLEARING, MATERIAL DELIVERED ON-SITE, EQUIPMENT ON-SITE AND FIELD OFFICE ON-SITE.

THE DEVELOPER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION, ADMINISTRATIVE, WATER AND SANITATION FEES.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

THE PRICE(S) QUOTED SHALL INCLUDE ALL ITEMS OF LABOR, MATERIALS, TOOLS, EQUIPMENT, INSURANCE AND OTHER COSTS NECESSARY TO FULLY COMPLETE THE WORK PURSUANT TO THE CONTRACT DOCUMENTS. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED WORK PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM SUCH CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR THE COMPLETION OF SUCH WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK ALTHOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS.

ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED WITH PERFORATED PIPE OR CONNECTED TO THE STORM SEWER SYSTEM.

NO NATURAL DRAINAGE COURSES SHALL BE ALTERED AND NO FILL, MATERIALS OR STRUCTURES SHALL BE PLACED IN IT UNLESS PROVISIONS ARE MADE FOR THE FLOW OF WATER IN A MANNER SATISFACTORY TO THE CITY ENGINEER. AN EASEMENT SHALL BE PROVIDED ON BOTH SIDES OF ANY EXISTING IMPORTANT SURFACE DRAINAGE COURSE ADEQUATE FOR THE PURPOSE OF PROTECTING, WIDENING, DEEPENING, ENCLOSING OR OTHERWISE IMPROVING SUCH STREAM FOR DRAINAGE PURPOSES.

THE CONTRACTOR SHALL REPAIR OR REPLACE ANY OR ALL EXISTING SIGNS, SHRUBS, FENCES, OR OTHER PHYSICAL FEATURES DAMAGED DURING THE EXECUTION OF THIS CONTRACT AT THEIR OWN EXPENSE. ALL REPAIRS SHALL BE TO THE SATISFACTION OF THE OWNER AND THE CITY OF GAHANNA.

THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF IMPROVEMENTS SHOWN ON THESE PLANS.

THE CONTRACTOR SHALL CLEAN ADJACENT STREETS ON A DAILY BASIS IF MUD IS TRACKED FROM VEHICLES VISITING THE SITE.

DUST CONTROL SHALL BE MAINTAINED THROUGHOUT THE ENTIRE SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF ALL TRENCHES WITHIN THE RIGHT-OF-WAY, PUBLIC EASEMENTS AND WITHIN THE WORK LIMITS FOR A PERIOD OF (1) YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE OWNER OR CITY OF GAHANNA.

THE CONTRACTOR SHALL CONFINE ACTIVITIES TO THE PROJECT SITE, EXISTING RIGHT-OF-WAYS, TEMPORARY EASEMENTS AND PERMANENT EASEMENTS, AND SHALL NOT ENTER UPON OTHER PROPERTIES WITHOUT WRITTEN PERMISSION OF THE OWNER.

SHOULD WATER BE ENCOUNTERED, THE CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY ADEQUATE TO DEWATER THE TRENCH. THE TRENCH SHALL BE SUFFICIENTLY DEWATERED SO THAT THE PLACEMENT OF BEDDING AND LAYING AND JOINING OF THE PIPE IS MADE IN A TRENCH FREE OF STANDING WATER. THE CONTRACTOR SHALL CONVEY ALL TRENCH WATER TO A NATURAL DRAINAGE CHANNEL OR STORM SEWER WITHOUT CAUSING ANY PROPERTY DAMAGE.

FINAL GRADE ADJACENT TO BUILDING SHALL SLOPE AWAY FROM BUILDING.

THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE CONSTRUCTION TO PLAN GRADE. THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPES ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINED REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIMES CONVENIENT TO THE CONTRACTOR. THESE CHECKS WILL BE PERFORMED TO ENSURE THAT CONSTRUCTION MATCHES PLAN GRADE, AND TO ENSURE THAT ALL EXISTING INVERTS ALONG WITH THE PROPOSED TOP OF CASTING ELEVATIONS ARE VERIFIED PRIOR TO CONSTRUCTION OF THE SEWER.

THE CONTRACTOR SHALL REFERENCE ALL IRON PINS OR MONUMENTS. IF ANY PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR IN THE STATE OF OHIO AT THE COMPLETION OF THE PROJECT.

THE COST OF RELOCATING AND/OR SECURING ANY POWER POLES AS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

VERTICAL CONTROL HAS BEEN ESTABLISHED FOR THE PROJECT AS SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SURVEYS TO COMPLETE THE PROJECT INCLUDING REESTABLISHMENT OF CONTROL POINTS, PROJECT LAYOUT AND STAKING OF EASEMENTS.

DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS AND LANDS.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY OF GAHANNA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, RESTORATION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL OR STREET LIGHTING SYSTEMS IN THE CONSTRUCTION AREA IS TO BE PERFORMED SOLELY BY THE CITY AT THE EXPENSE OF THE PROJECT. THE CITY SHALL BE NOTIFIED PRIOR TO CONSTRUCTION TO ALLOW FOR ENGINEERING AND RELOCATION OF FACILITIES.

IF ANY ELECTRIC FACILITY BELONGING TO THE CITY IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, THE CITY SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE CITY.

ALL CURB RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990, INCLUDING ALL SUPPLEMENTS IN ACCORDANCE WITH THE CITY OF COLUMBUS STANDARD DRAWING 2319, INCLUDING ALL SUPPLEMENTS AND/OR REPLACEMENTS, CURRENT ON THE DATE OF THE START OF PROJECT CONSTRUCTION. SIDEWALKS SHALL BE CONSTRUCTED WITH A 3/16" PER FOOT (1.56%) CROSS SLOPE.

NO NON-RUBBER Tired VEHICLES SHALL BE MOVED ON CITY STREETS. EXISTING PRIVATE ROADWAYS, OR PARKING LOTS UNLESS WRITTEN APPROVAL IS GRANTED BY THE APPROPRIATE CITY AUTHORITY OR PROPERTY OWNER. ANY DAMAGE MUST BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF GAHANNA AT NO COST TO THE CITY OR PROPERTY OWNER/DEVELOPER.

THE CONTRACTOR SHALL MAKE HIS OWN PROVISIONS TO PROVIDE A SITE STAGING AREA AND JOB TRAILER (IF REQUIRED) FOR THE PROJECT IMPROVEMENTS.

NO NATURAL DRAINAGE COURSES SHALL BE ALTERED AND NO FILL, BUILDINGS OR STRUCTURES SHALL BE PLACED IN IT UNLESS PROVISIONS ARE MADE FOR THE FLOW OF WATER IN A MANNER SATISFACTORY TO THE CITY ENGINEER. AN EASEMENT SHALL BE PROVIDED ON BOTH SIDES OF ANY EXISTING IMPORTANT SURFACE DRAINAGE COURSE ADEQUATE FOR THE PURPOSE OF PROTECTING, WIDENING, DEEPENING, ENCLOSING OR OTHERWISE IMPROVING SUCH STREAM FOR DRAINAGE PURPOSES.

ORANGE CONSTRUCTION FENCING SHALL BE PLACED AROUND THE EXISTING TREES TO BE SAVED AND REMAIN IN PLACE DURING THE DEVELOPMENT CONSTRUCTION. THE LOCATION OF THE FENCING AND ANY CLEARING NECESSARY WILL BE DETERMINED BY THE APPROVED PLANS.

THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION ON THE PROJECT SITE WHERE AND AS DIRECTED BY THE OWNER/DEVELOPER.

INCONVENIENCE TO THE ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ALL WORK IS TO CONTINUE ON A UNIFORM BASIS AND ON SCHEDULE, PARTICULARLY THE RESTORATION AND CLEAN UP OF DISTURBED AREAS AFTER CONSTRUCTION. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SOIL TRANSPORT DURING CONSTRUCTION ONTO PUBLIC ROADS. THE CONTRACTOR SHALL CLEAN AND SWEEP STREETS AS DIRECTED BY THE CITY. COST TO BE INCLUDED IN THE PRICE BID UNDER VARIOUS ITEMS.

AN ENGINEERING REVIEW FEE WILL BE COLLECTED PRIOR TO CONSTRUCTION. THIS FEE WILL INCLUDE AN AS-BUILT SURVEY FEE AND AS-BUILT DEPOSIT. THE AS-BUILT SURVEY FEE IS THE ACTUAL COST OF SURVEY FOR THE CREATION OF AN AS-BUILT PLAN. THE CITY WILL SELECT THE SURVEYOR AND REQUEST A PROPOSAL FOR THIS SURVEY.

AT PROJECT COMPLETION, THE CITY'S SELECTED SURVEYOR WILL PROVIDE THE CITY AND THE DEVELOPER WITH THE FINAL AS-BUILT SURVEY DATA. THE DEVELOPER MAY SELECT AN ENGINEERING FIRM TO PRODUCE THE FINAL AS-BUILT PLANS. IF THE DEVELOPER DOES NOT ELECT TO PRODUCE THE FINAL AS-BUILT PLAN, THE CITY WILL USE THE AS-BUILT DEPOSIT TO CONTRACT WITH AN ENGINEERING FIRM TO PRODUCE THE FINAL AS-BUILT PLAN.

AT PROJECT COMPLETION, THE DEVELOPER WILL REQUEST A FINAL ENGINEERING INSPECTION. THE CITY OF GAHANNA WILL PRODUCE A PUNCHLIST OF ALL ITEMS THAT WILL NEED TO BE CORRECTED. THESE ITEMS WILL NEED TO BE SATISFACTORILY ADDRESSED BEFORE THE BUILDING DIVISION WILL RELEASE THE FINAL OCCUPANCY PERMIT.

AN AS-BUILT PLAN WILL BE REQUIRED BEFORE ISSUANCE OF A FINAL OCCUPANCY PERMIT. THE AS-BUILT PLAN WILL INCLUDE THE FINAL ELEVATIONS, LOCATIONS, INVERTS AND OTHER DATA AS REQUIRED BY THE CITY OF GAHANNA. THIS INFORMATION WILL BE INCLUDED ON THE PLAN SET IN RED TO DENOTE IT IS FINAL AS-BUILT DATA.

UTILITIES:

THE CONTRACTOR SHALL GIVE NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE 1-800-362-2764) AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE NOT MEMBERS OF A REGISTERED UTILITY PROTECTION SERVICE. THE ABOVE-MENTIONED NOTICE SHALL BE GIVEN AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITY AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECTS ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL GIVE NOTICE TO OUPS AND OTHER UTILITY OWNERS PER THE GENERAL NOTES.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE SURVEYOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL UNCOVER THE EXISTING UTILITY IN ADVANCE OF LAYING PIPE IN ORDER THAT THE ENGINEER MAY DETERMINE THE EXACT ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS.

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND ARE REGISTERED MEMBERS OF THE UNDERGROUND UTILITY PROTECTION SERVICE:

UTILITY	OWNER	TELEPHONE	FAX
WATER FACILITIES	City of Gahanna Water Division 200 S. Hamilton Rd Gahanna, OH 43230	(614) 342-4440	(614) 342-4100
SEWER FACILITIES	City of Gahanna Sewer Division 200 S. Hamilton Rd Gahanna, OH 43230	(614) 342-4440	(614) 342-4100
ELECTRIC FACILITIES	American Electric Power 850 Tech Center Dr Gahanna, OH 43230	(614) 883-6811	(614) 883-6868
GAS	Columbia Gas of Ohio (Distribution) ATTN: Rob Caldwell 3550 Johnny Appleseed Court Columbus, OH 43231	P: (614) 818-2104 C: (614) 370-1906 E-mail: rcaldwell@nisource.com	(614) 460-4265
TELEPHONE	AT&T 150 E. Gay St Columbus, OH 43212	(800) 660-1000	(614) 223-6296

CONTRACTOR TO COORDINATE WITH GAS, ELECTRIC, CABLE AND TELECOMMUNICATION COMPANIES TO COORDINATE FINAL CONSTRUCTION DETAILS FOR ON-SITE GAS, ELECTRIC, CABLE AND TELEPHONE SERVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ARCHITECT AND THE MECHANICAL ENGINEER FOR THE FINAL LOCATION OF UTILITY SERVICES INTO THE BUILDING.

PLACEMENT OF UTILITY CONDUIT OR SLEEVES FOR GAS, SITE ELECTRIC AND TELECOMMUNICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLAN DETAILS SHOWN HEREIN AND IN CONFORMANCE TO THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANIES.

WATER NOTES:

NO WATER SERVICE CONSTRUCTION SHALL BEGIN PRIOR TO FEE PAYMENT AND PERMITS BEING ISSUED BY THE CITY OF GAHANNA.

METER SETTING AND BACKFLOW PREVENTER AS PER THE DIRECTION OF THE CITY OF GAHANNA. METER AND BACKFLOW PREVENTER TO BE SET INSIDE OF BUILDING UNLESS OTHERWISE APPROVED.

ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER AND THE DIRECTION OF THE CITY OF GAHANNA STAFF.

THE SITE UTILITY CONTRACTOR SHALL CALL THE CITY OF GAHANNA UTILITIES DEPARTMENT FOR INSPECTION OF TAPS, NEW WATER SERVICES, AND FIRE HYDRANTS. CALL (614) 342-4440 24 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.

WATER MAINS AND FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE, CLASS 53 (AWWA C151) WITH CEMENT MORTAR LINING AND SEAL COAT (AWWA C104) OR PVC, CLASS 150 MEETING AWWA C900. JOINTS SHALL BE RUBBER GASKET PUSH-ON MECHANICAL (AWWA C110).

FIRE HYDRANTS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE AS SHOWN ON THE CITY OF COLUMBUS L-6409 AND L-6637 STANDARD CONSTRUCTION DRAWINGS. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 FIRE HYDRANT, AMERICAN DARLING 4-1/2 MK73 - 5, OR APPROVED EQUAL AND PAINTED SOLID RED.

ALL WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE AS SHOWN ON THE CITY OF COLUMBUS L-9901 STANDARD CONSTRUCTION DRAWING. 2 BOLT FULL STAINLESS STEEL SERVICE SADDLES SHALL BE PROVIDED FOR ALL WATER SERVICE TAPS.

ALL GATE VALVES SHALL BE RESILIENT SEAT TYPE MANUFACTURED TO MEET OR EXCEED TO REQUIREMENTS OF ANSIIAWWA C509 OR THE LATEST REVISION.

WATERLINES SHALL BE LAID WITH A MINIMUM OF 4'-0" OF COVER FROM THE FINISHED GRADE TO THE TOP OF THE WATER LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HORIZONTAL AND VERTICAL DEFLECTIONS OR BENDS OF THE WATER LINES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECT WATER LINES TO PROVIDE A 1'-6" VERTICAL AND 10'-0" HORIZONTAL CLEARANCE WITH SEWERS.

ALL WATER LINES, INCLUDING MAINS AND SERVICES, SHALL BE TESTED UNDER A MINIMUM HYDROSTATIC TEST OF 150 PSI AND IN ACCORDANCE WITH AWWA C600 AND CITY OF COLUMBUS CMS ITEMS 801.13 AND 801.14. NO PRESSURE TEST SHALL BE PERFORMED IF THE TEMPERATURE IS BELOW FREEZING.

THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF THE PLANS, RESULTS OF THE PRESSURE TEST AND A LETTER REQUESTING CHLORINATION TO THE CITY OF GAHANNA. COST OF CHLORINATION SHALL BE INCLUDED IN THE PRICE BID FOR THE WATER LINE ITEMS.

NEW, CLEANED AND REPAIRED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651. THE SPECIFICATIONS SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS. IN AN EMERGENCY OR UNUSUAL SITUATION THE DISINFECTION PROCEDURE SHALL BE DISCUSSED WITH THE CITY ENGINEER OR HIS DESIGNEE.

ALL WATER MAINS, INCLUDING THOSE NOT DESIGNED TO PROVIDE FIRE PROTECTION, SHALL BE SIZED AFTER A HYDRAULIC ANALYSIS BASED ON FLOW DEMANDS AND PRESSURE REQUIREMENTS. THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. THE NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHALL BE AT LEAST 35 PSI AND SHOULD BE APPROXIMATELY 60 TO 80 PSI AND NOT LESS THAN 35 PSI. NO PERSON SHALL INSTALL OR MAINTAIN A WATER SERVICE CONNECTION WHERE A BOOSTER PUMP HAS BEEN INSTALLED.

ALL MECHANICAL JOINTS ARE REQUIRED TO BE MEGALUGGED, CONCRETE BACKING IS STILL REQUIRED. ALL MECHANICAL PIPE DEFLECTIONS ARE REQUIRED TO BE MEGALUGGED, ALL-THREADED, CONCRETE BACKED, AND JOINT RESTRAINTS MAY BE REQUIRED BY THE ENGINEER. THE HYDRANT TEE IS TO BE ALL-THREADED TO THE MAINLINE VALVE FOR FUTURE EXPANSION. 1 FULL STICK OF PIPE (20') IS TO BE LAID BEFORE FOR THE PLUG.

ALL FITTINGS ARE TO BE GPS LOCATED PRIOR TO BACKFILL USING X, Y, AND Z COORDINATES.

ANY WATER USAGE FOR FILLING THE WATER MAIN AND CHLORINATION SHALL GO THROUGH A WATER METER. ANY UNMETERED WATER USE WILL BE CHARGED TO THE CONTRACTOR/DEVELOPER BASED ON FLOW RATE CALCULATIONS.

THE WATER LINE AND SEWER LINE TRENCH UNDER THE INFLUENCE OF PAVEMENT ARE TO BE COMPACTION TESTED.

INSTALL COPPERHEAD® OR EQUAL 12-GAUGE HIGH STRENGTH 452LB BREAK STRENGTH 30 MIL HDPE JACKET, COPPER-CLAD, STEEL REINFORCED TRACER WIRE ON ALL WATER MAIN AND SERVICE LINES INSTALLED BY TRENCHING METHODS.

INSTALL COPPERHEAD® OR EQUAL 12-GAUGE EXTRA HIGH STRENGTH 1150LB BREAK STRENGTH 45 MIL HDPE JACKET, COPPER-CLAD, STEEL REINFORCED TRACER WIRE ON ALL WATER MAIN AND SERVICE LINES INSTALLED BY BORING METHODS.

FASTEN WIRE TO PIPE IN TWO PLACES PER PIPE SECTION. EXTEND TRACER WIRE TO GROUND SURFACE AT ALL VALVES AND HYDRANTS. SPLICE WIRES USING BURNDY COPPER SPLIT BOLT KS-15. THOROUGHLY WRAP THE CONNECTOR AND BARE WIRES WITH 3M TEMFLEX 2155 RUBBER SPLICING TAPE, COVER ENTIRE CONNECTION WITH SCOTCH SUPER 88 HEAVY DUTY GRADE ELECTRICAL TAPE.

CONNECT ALL SERVICE LINE WIRES TO MAIN LINE WIRES USING BURNDY COPPER SPLIT BOLT KS-15. THOROUGHLY WRAP THE CONNECTOR AND BARE WIRES WITH 3M TEMFLEX 2155 RUBBER SPLICING TAPE, COVER ENTIRE CONNECTION WITH SCOTCH SUPER 88 HEAVY DUTY GRADE ELECTRICAL TAPE.

CONTRACTOR SHALL TEST THE CONTINUITY OF ALL WIRE USING A THIRD-PARTY TESTER. CONTRACTOR SHALL CONTACT THE CITY OF GAHANNA DEPARTMENT OF PUBLIC SERVICE AND ENGINEERING A MINIMUM OF 24 HOURS PRIOR TO TEST. TESTER SHALL SEND A SIGNED REPORT TO CITY OF GAHANNA AFFIRMING ALL WIRE HAS CONTINUITY. CONTRACTOR SHALL REPAIR ALL DEFICIENCIES.

SANITARY SEWER NOTES:

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

SERVICE RISERS, ITEM 914, SHALL BE INSTALLED WHERE DEPTHS FROM THE WYES TO THE EXISTING OR PROPOSED ELEVATIONS EXCEED 10'. THE TOPS OF RISERS SHALL BE NO MORE THAN 49" BELOW THE EXISTING OR PROPOSED SURFACE ELEVATION, WHICHEVER IS HIGHER.

THE SITE UTILITY CONTRACTOR SHALL CALL THE CITY OF GAHANNA UTILITIES DEPARTMENT FOR INSPECTION OF TAPS, NEW WATER SERVICES, AND FIRE HYDRANTS. CALL (614) 342-4440 24 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.

A MINIMUM VERTICAL CLEARANCE OF 1.5 FEET SHALL BE PROVIDED BETWEEN THE PROPOSED SANITARY SERVICE AND EXISTING UTILITIES OR STRUCTURES UNLESS OTHERWISE NOTED ON THESE PLANS.

ALL PVC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT VERSION.

ALL SANITARY SEWER AND SANITARY SERVICES ARE TO BE MANDREL TESTED, AIR TESTED, CLEANED AND CAMERA INSPECTED.

ALL SANITARY MANHOLES ARE REQUIRED TO PASS A VACUUM TEST PER CITY OF COLUMBUS ITEM 901.20 AND ASTM-C-1244.

PIPE FOR ALL 6" SANITARY SERVICES SHALL BE PVC SEWER PIPE ASTM D-3034, SDR-35. THE SERVICES SHALL BE FIELD TESTED BY THE INFILTRATION, EXFILTRATION OR AIR TEST.

ALL PIPES SHALL BE LAID WITH TYPE 1 GRANULAR MATERIAL BEDDING AND BACKFILL AS SHOWN ON STANDARD CONSTRUCTION CITY OF COLUMBUS AA-S151. INSTALLATION SHALL CONFORM TO CMS SECTION 900.

STORM SEWER NOTES:

ANY PLACEMENT OF STORM SEWERS BENEATH EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED IN ACCORDANCE WITH COLUMBUS CMS ITEM 912, COMPACTED GRANULAR BACKFILL.

ALL PIPES SHALL BE LAID WITH TYPE 1 GRANULAR MATERIAL BEDDING AND BACKFILL AS SHOWN ON STANDARD CONSTRUCTION CITY OF COLUMBUS AA-S151. INSTALLATION SHALL CONFORM TO CMS SECTION 900.

ALL CONCRETE PIPE AND STORM SEWER STRUCTURES SHALL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE AND/OR STORM STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

ALL CURB INLETS AND MANHOLES SHALL BE CHanneled AS DIRECTED. THE COST FOR THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR VARIOUS STORM SEWER ITEMS.

IN CASE OF CONFLICT IN GRADE BETWEEN WATER LINES AND STORM SEWERS, THE WATER LINES SHALL BE LOWERED DURING CONSTRUCTION.

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF COLUMBUS CMS ITEM 901.

ALL STORM SEWER IS TO BE MANDREL TESTED, CLEANED AND CAMERA INSPECTED.

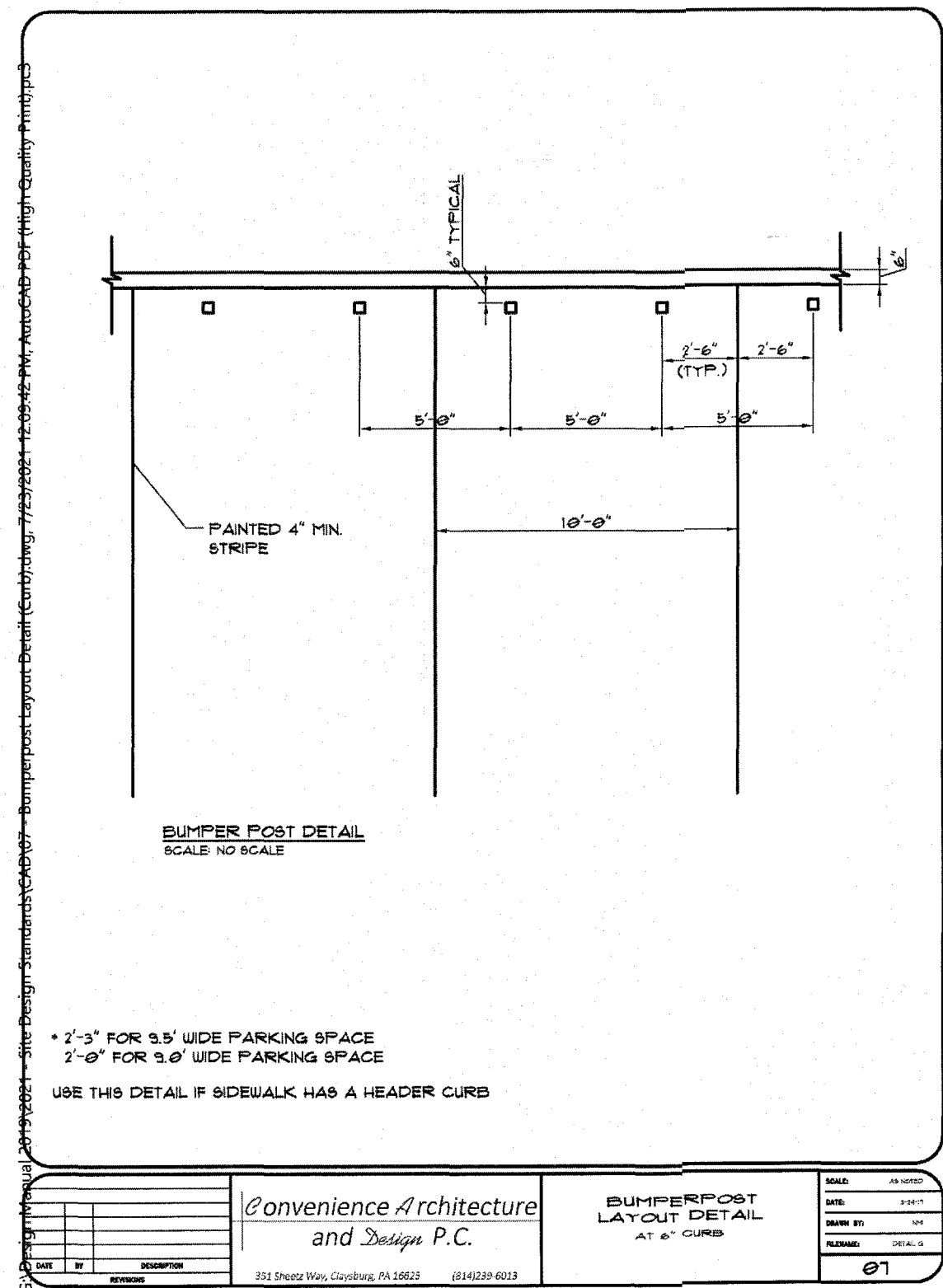
MAINTENANCE OF TRAFFIC:

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) FOR CONSTRUCTION AND MAINTENANCE OPERATIONS. ALL DEVICES SHALL MEET FP-85 REFLECTANCE STANDARDS AND IN FULL COMPLIANCE WITH QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES PUBLISHED BY ATTSSA. ALL TRAFFIC CONTROL DEVICES MUST MEET NCHRP 350.

STEADY BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ALL SIGNS, NINE SQUARE FEET (36" X 36") AND OVER SHALL HAVE YELLOW TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS AND THREE FLAGS. CONES ARE NOT APPROVED FOR USE AT NIGHT.

THE ROADWAY SHALL NOT BE OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE INSPECTOR ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.

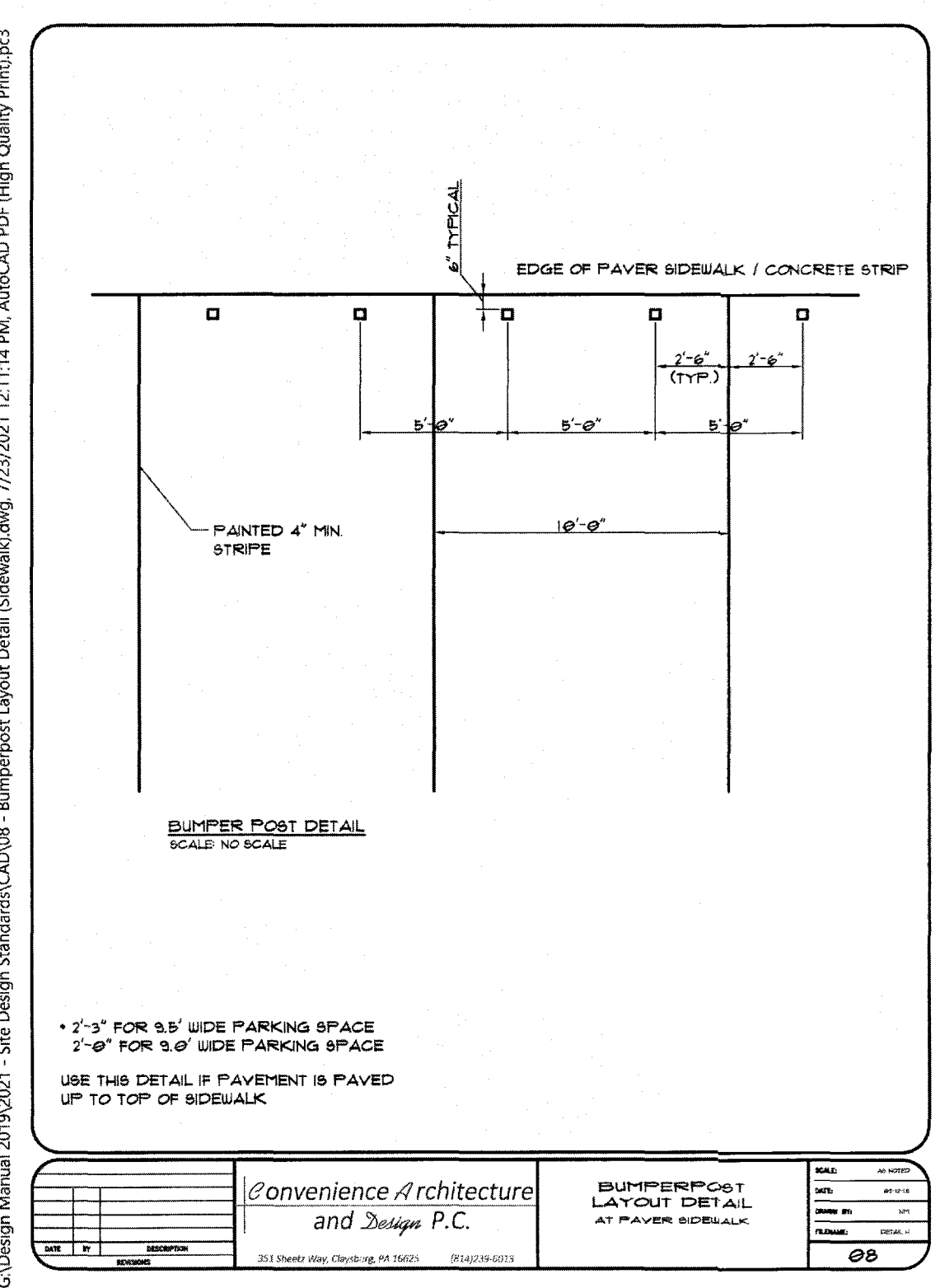
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3500 Snouffer Road, Suite 225 Columbus, OH 43235 614.761.1661 phone www.v3co.com								DRAWING NO.		C1.1		



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BUMPERPOST LAYOUT DETAIL AT 6" CURB

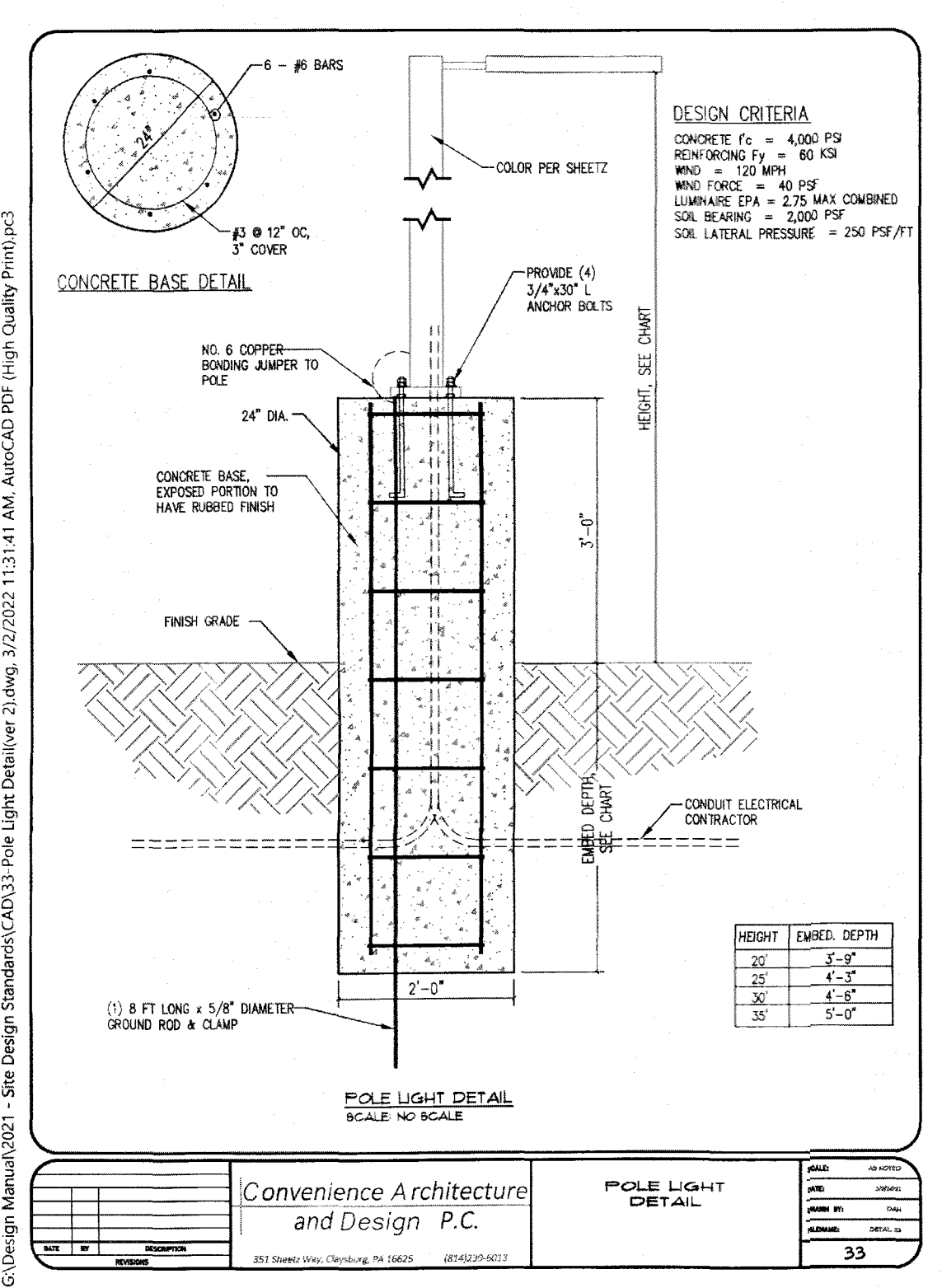
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BUMPERPOST LAYOUT DETAIL AT PAVEMENT

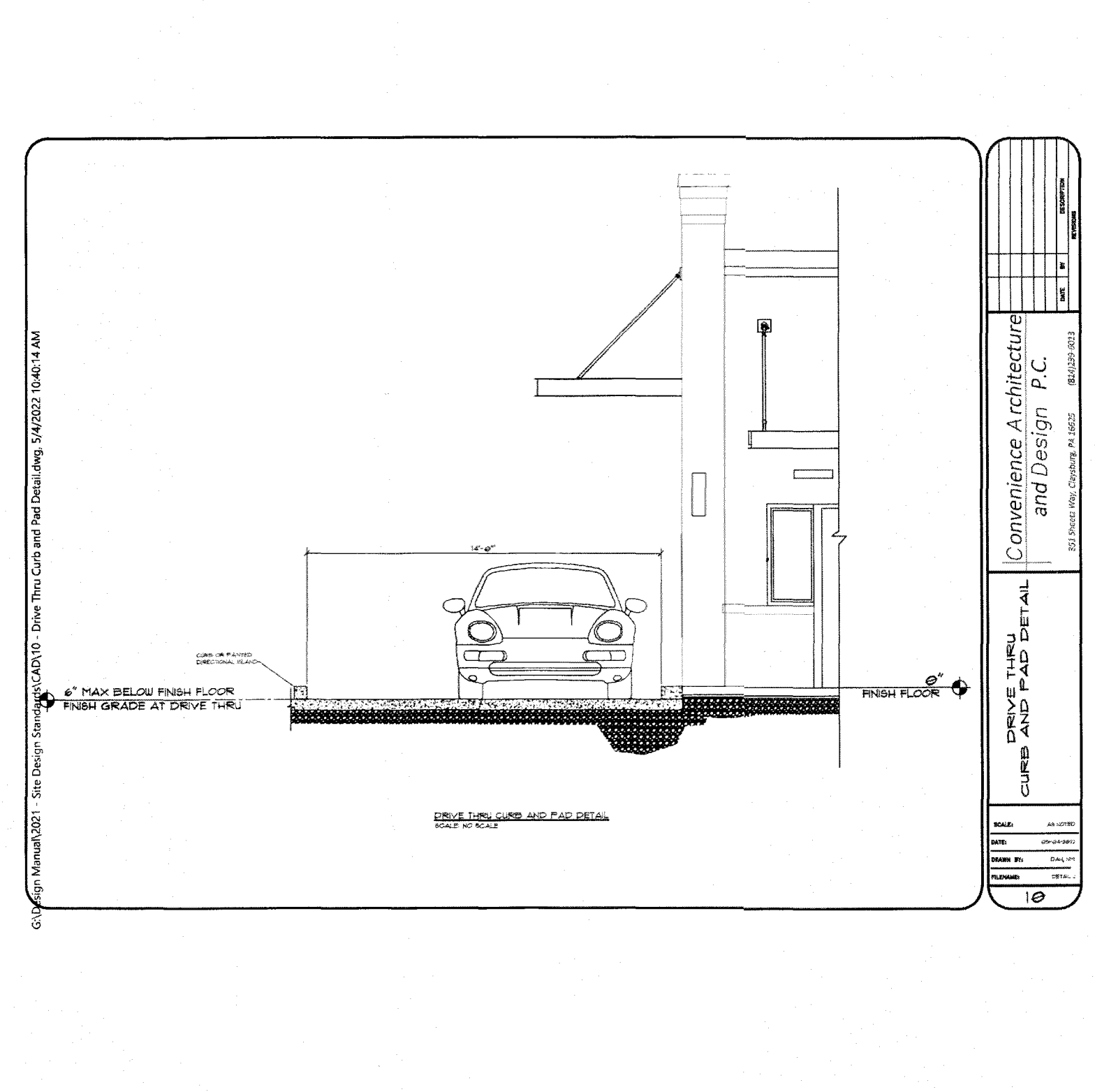
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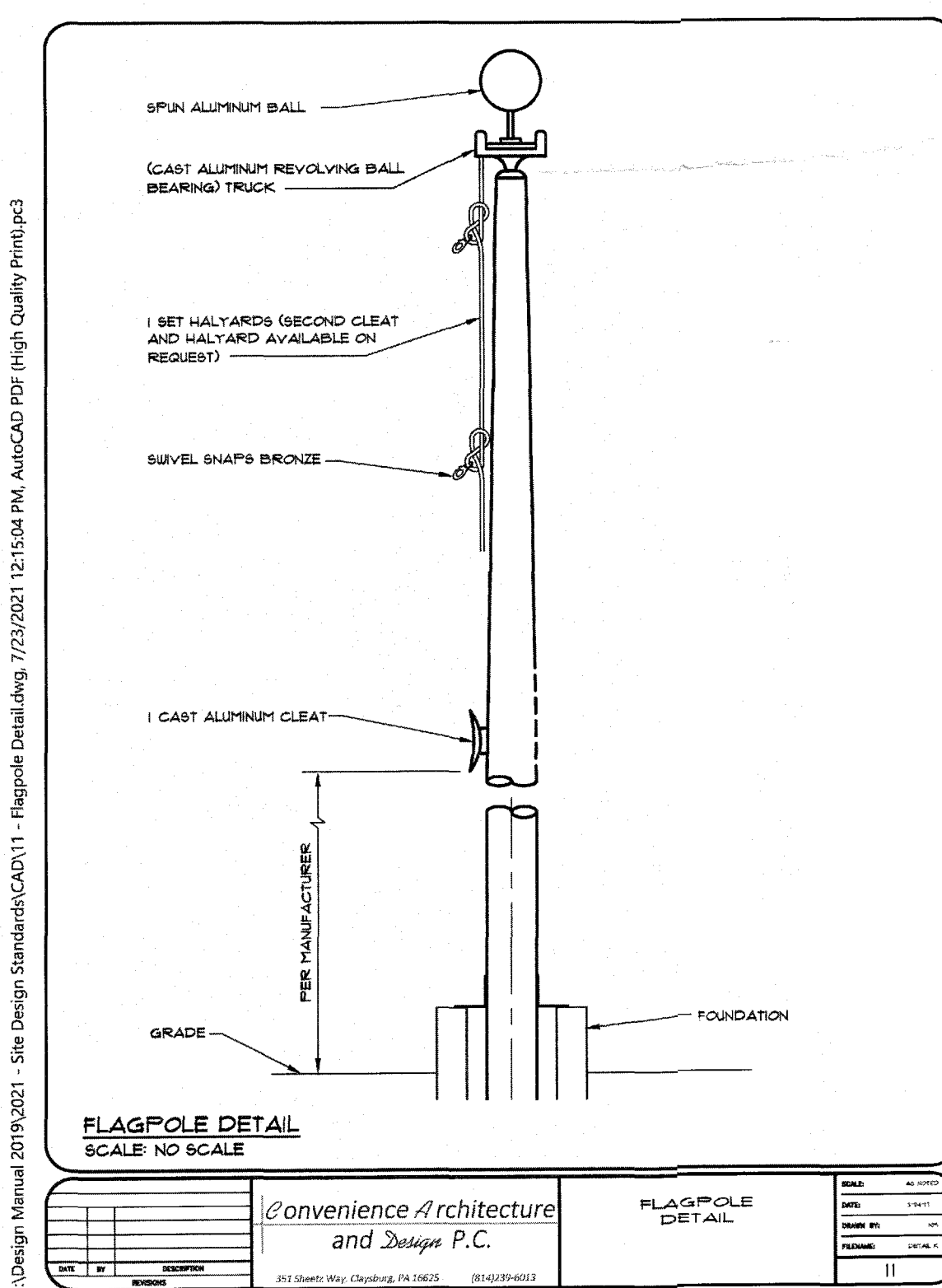
POLE LIGHT DETAIL

DATE: 01/20/2021
TIME: 10:00 AM
DRAWN BY: JDM
CHECKED BY: JDM
SCALE: 1/8"=1'-0"



NO.	DATE	DESCRIPTION	REVISIONS

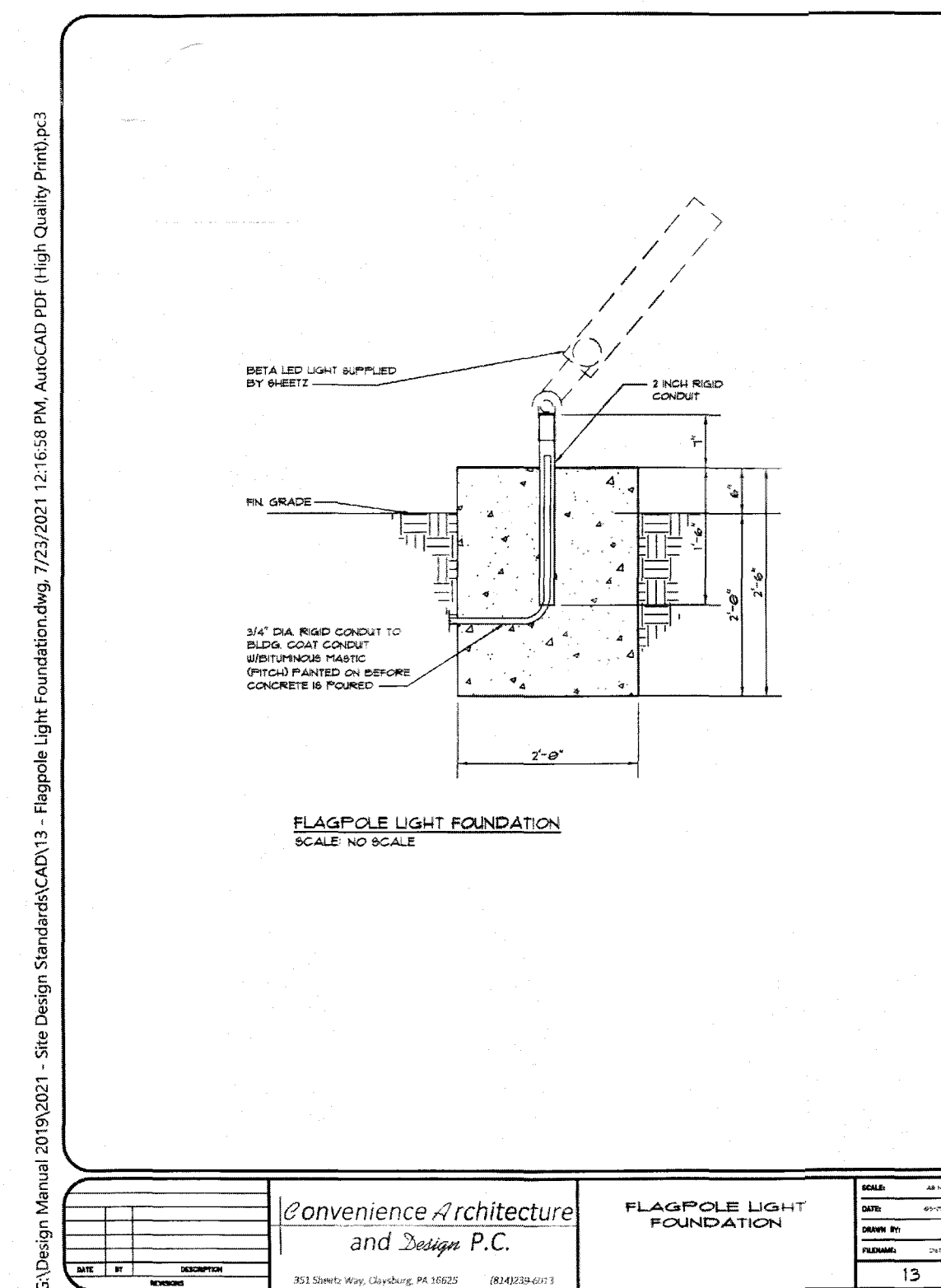
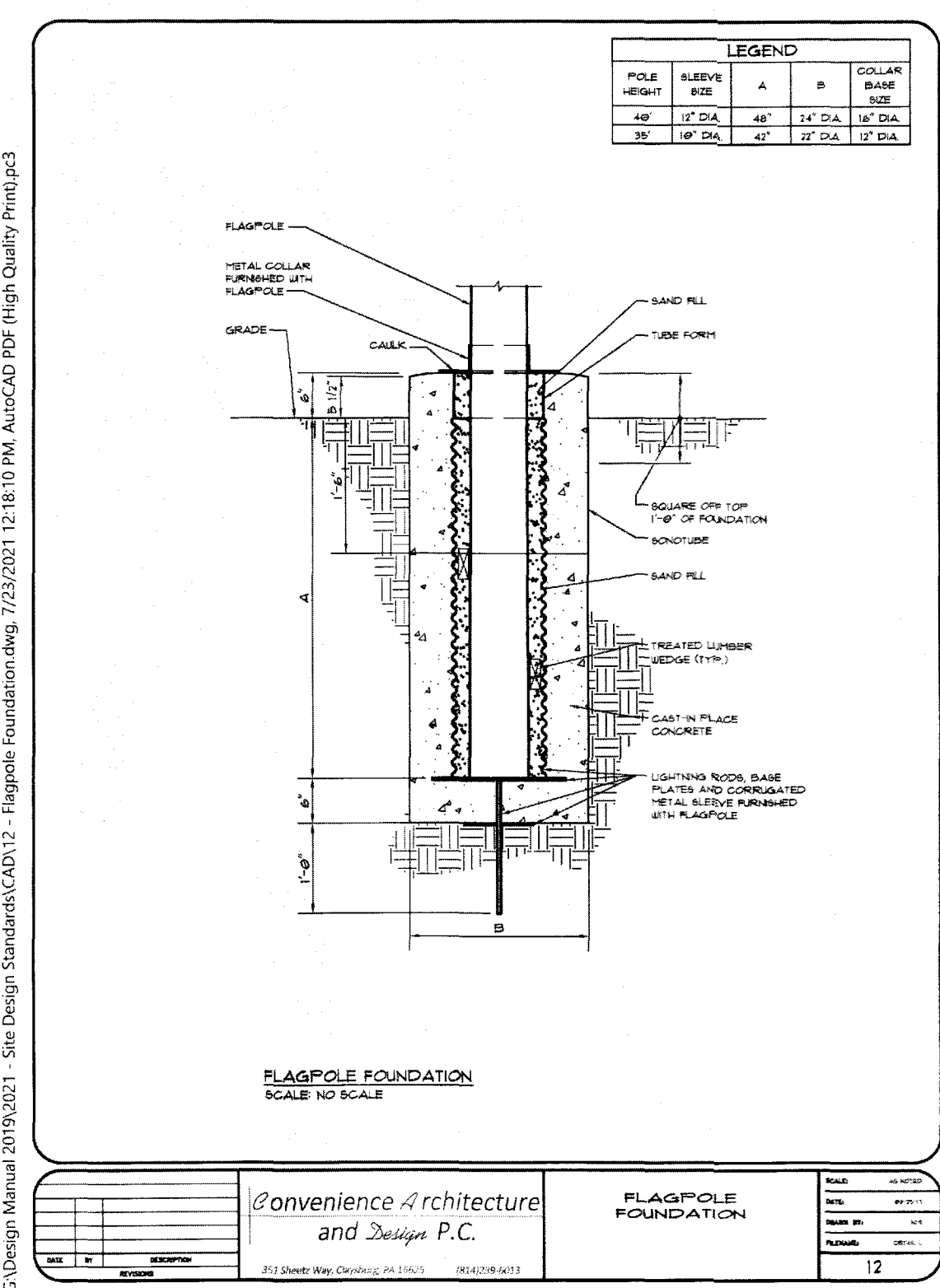
Convenience Architecture and Design P.C.



Convenience Architecture and Design P.C.

FLAGPOLE DETAIL

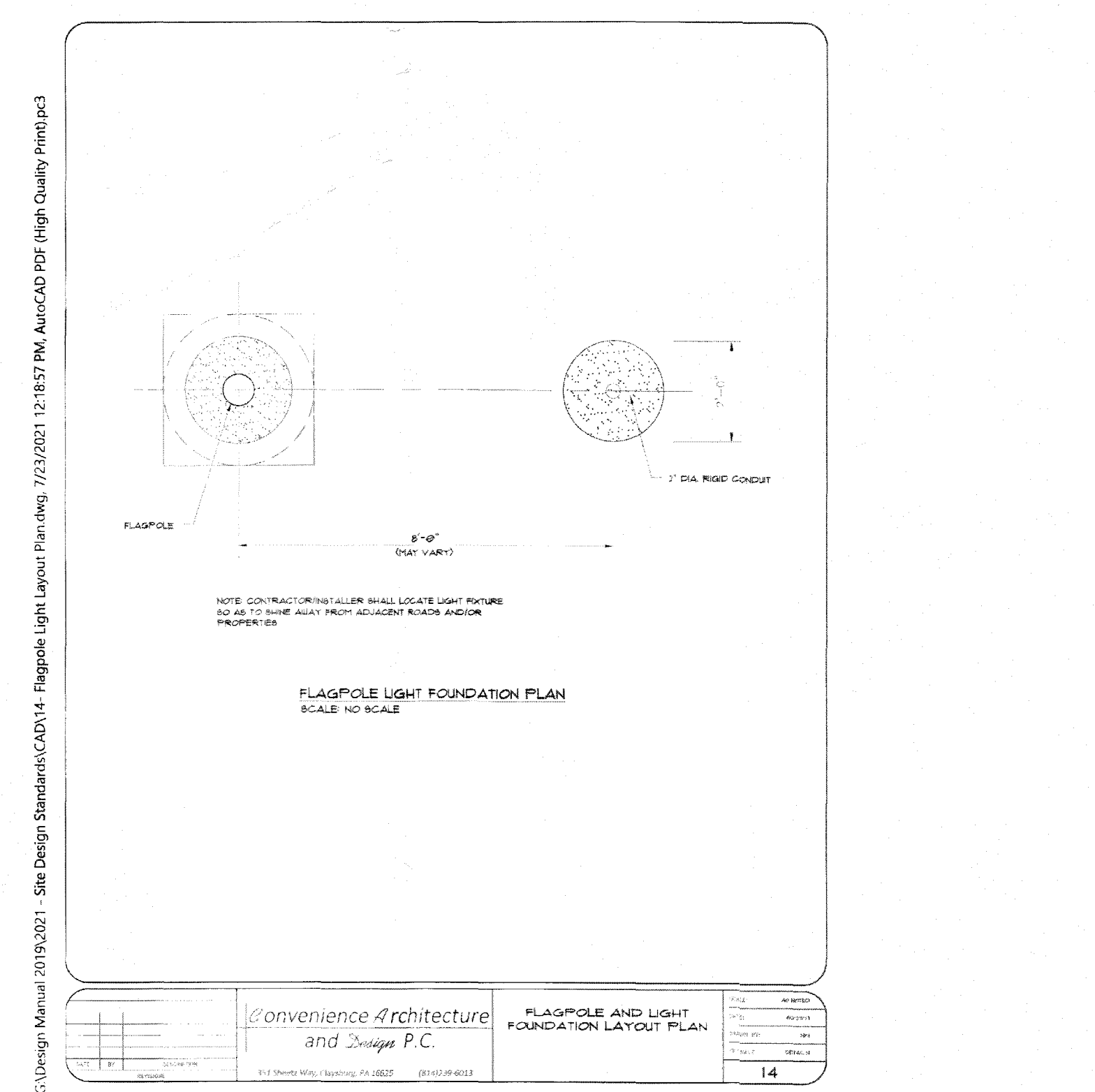
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TIME: 10:00 AM
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CHECKED BY: JDM
SCALE: 1/8"=1'-0"



Convenience Architecture and Design P.C.

FLAGPOLE LIGHT FOUNDATION

DATE: 01/20/2021
TIME: 10:00 AM
DRAWN BY: JDM
CHECKED BY: JDM
SCALE: 1/8"=1'-0"



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FLAGPOLE AND LIGHT FOUNDATION LAYOUT PLAN

DATE: 01/20/2021
TIME: 10:00 AM
DRAWN BY: JDM
CHECKED BY: JDM
SCALE: 1/8"=1'-0"

PROJECT NO.	ORIGINAL ISSUE DATE	DATE	DESCRIPTION	REVISIONS
21042				

PROJECT MANAGER: JDM
DESIGNED BY: JDM
DRAWN BY: RUB

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Suite 225
Columbus, OH 43235
614.761.1661 phone
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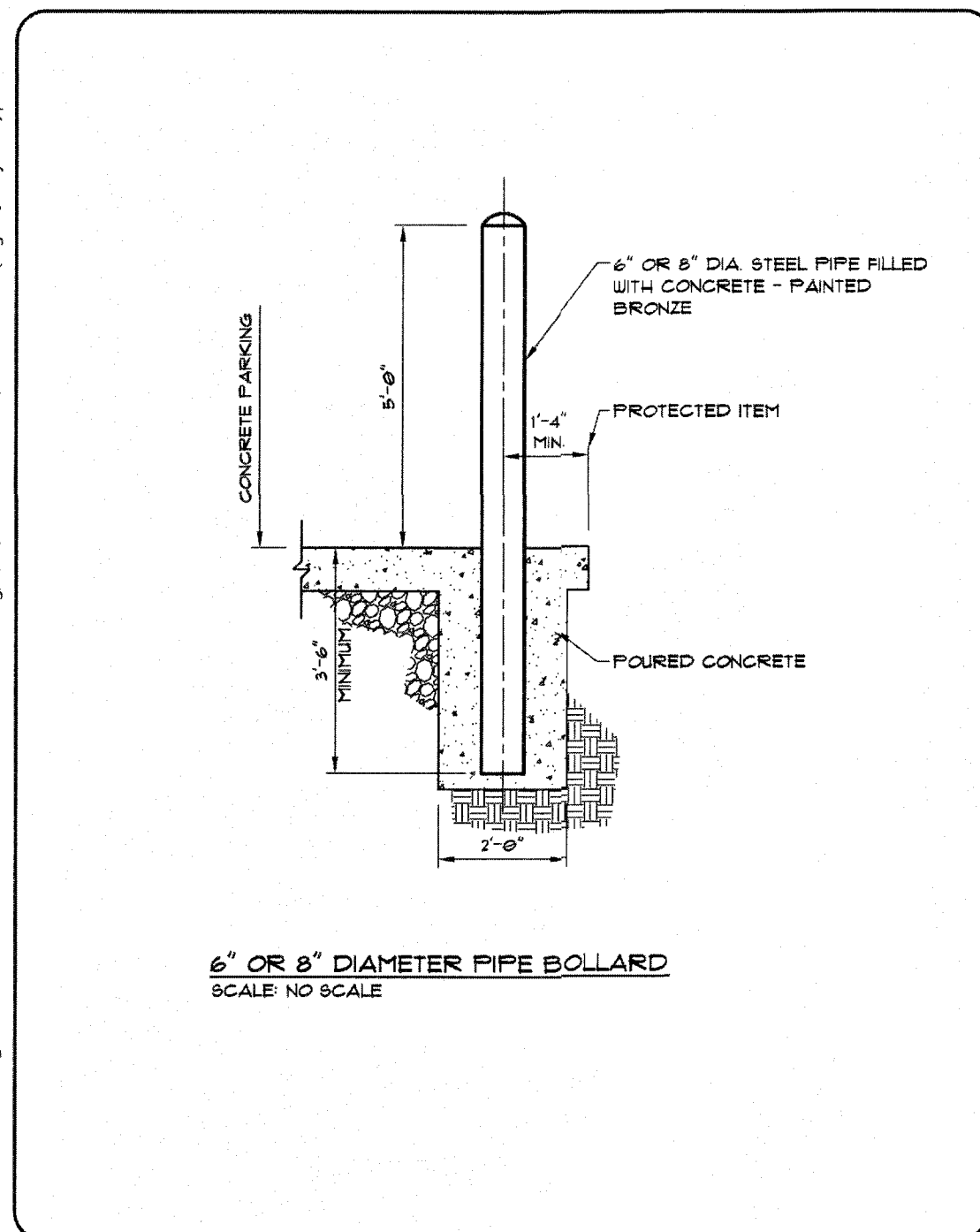
GHAHANA S04

SHEETZ DETAILS CONT.

SHEETZ GAHANA

DRAWING NO. C1.3

C:\Design Manual\2019\2021 - Site Design Standards\CAD\17 - 6 or 8 Diameter Bollard Detail.dwg, 7/23/2021 12:25:59 PM, AutoCAD PDF (High Quality Print).pc3

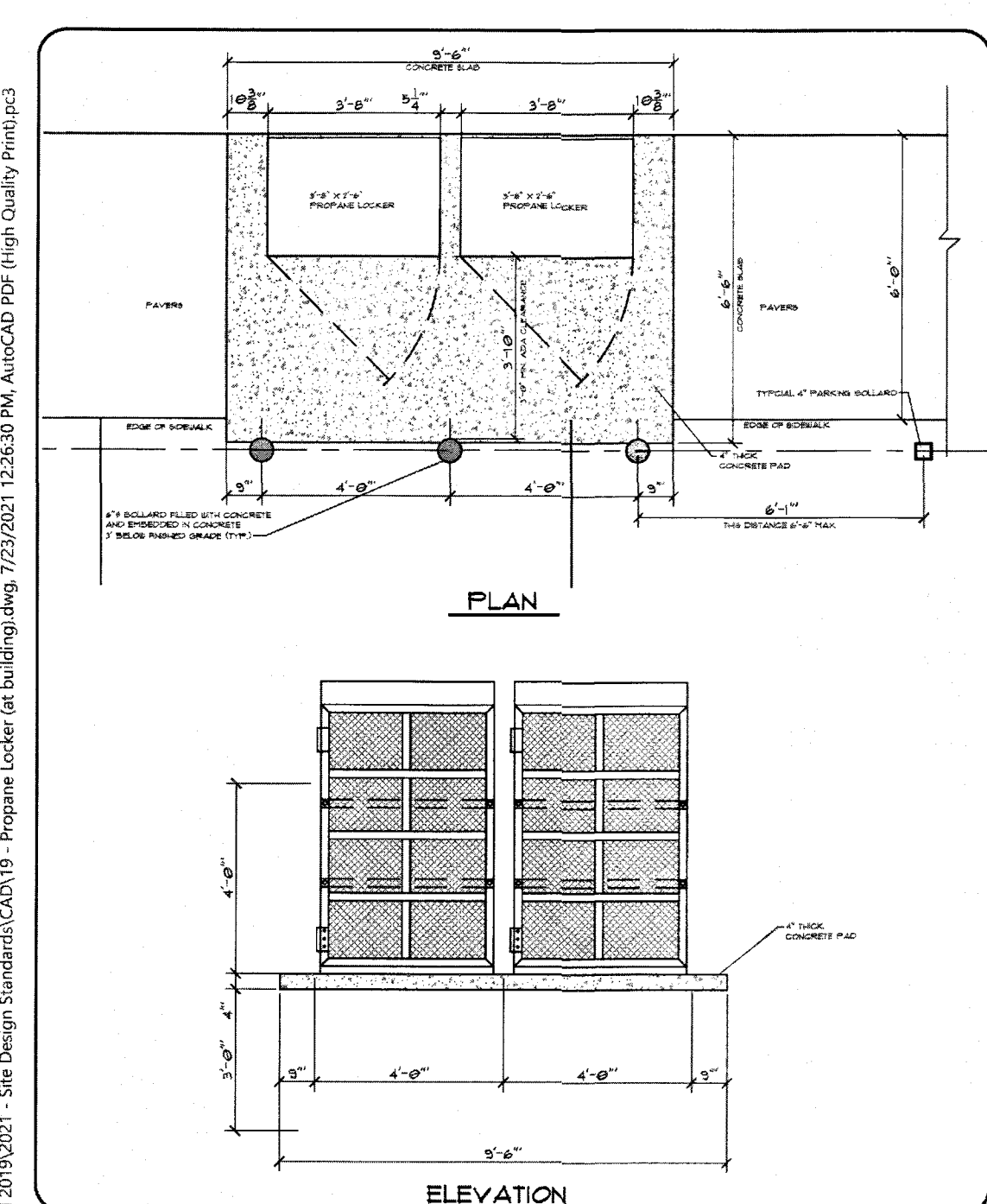


6" OR 8" DIAMETER PIPE BOLLARD
SCALE: NO SCALE

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353 Shewey Way, Chesapeake, VA 20825 (814) 299-8013

DATE	DESCRIPTION	BY	CHKD
11			

C:\Design Manual\2019\2021 - Site Design Standards\CAD\19 - Propane Locker (at building).dwg, 7/23/2021 12:26:30 PM, AutoCAD PDF (High Quality Print).pc3

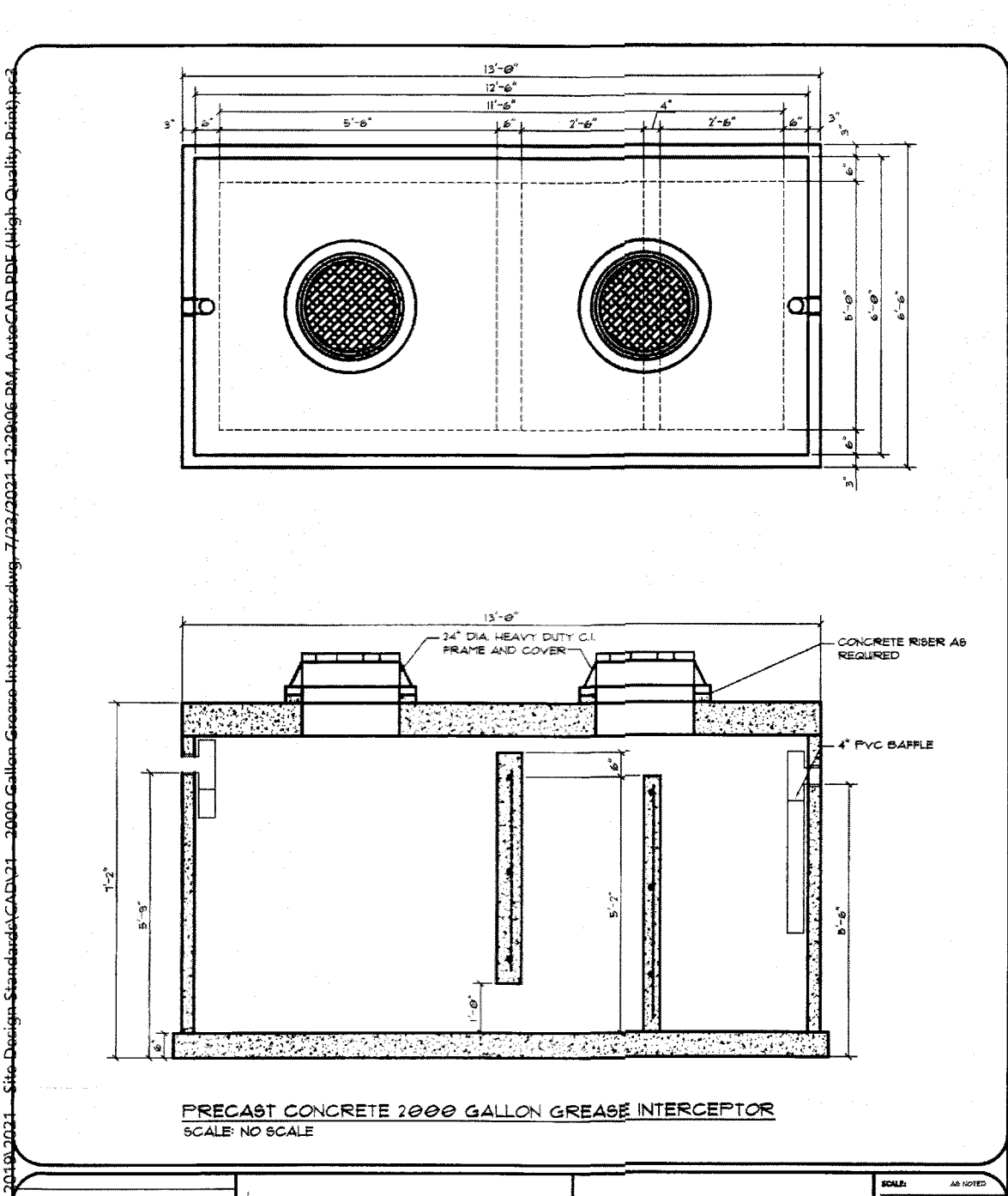


PROPANE LOCKER AT BUILDING
SCALE: NO SCALE

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DATE	DESCRIPTION	BY	CHKD
19			

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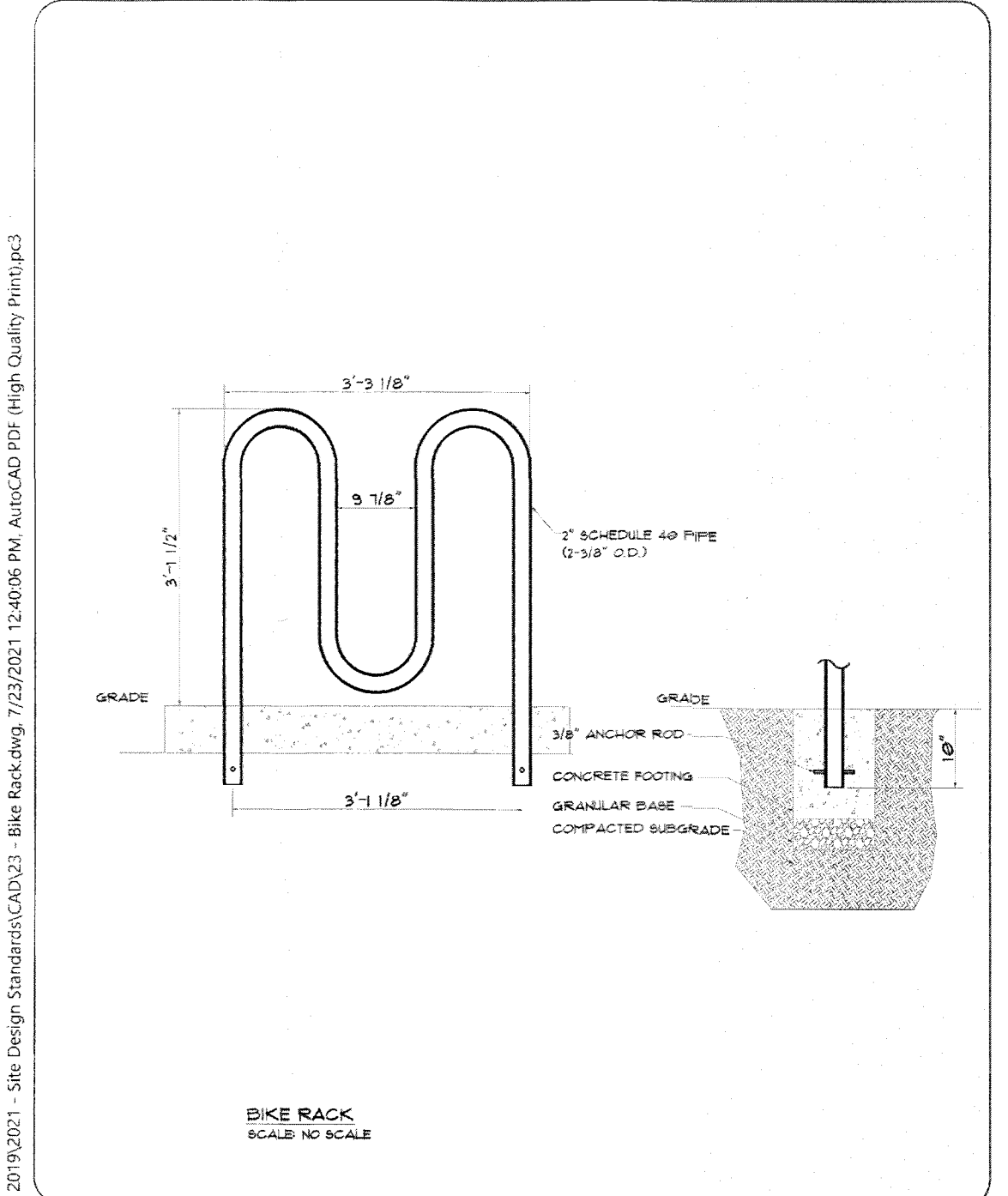


2000 GALLON PRECAST CONCRETE GREASE INTERCEPTOR
SCALE: NO SCALE

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DATE	DESCRIPTION	BY	CHKD
21			

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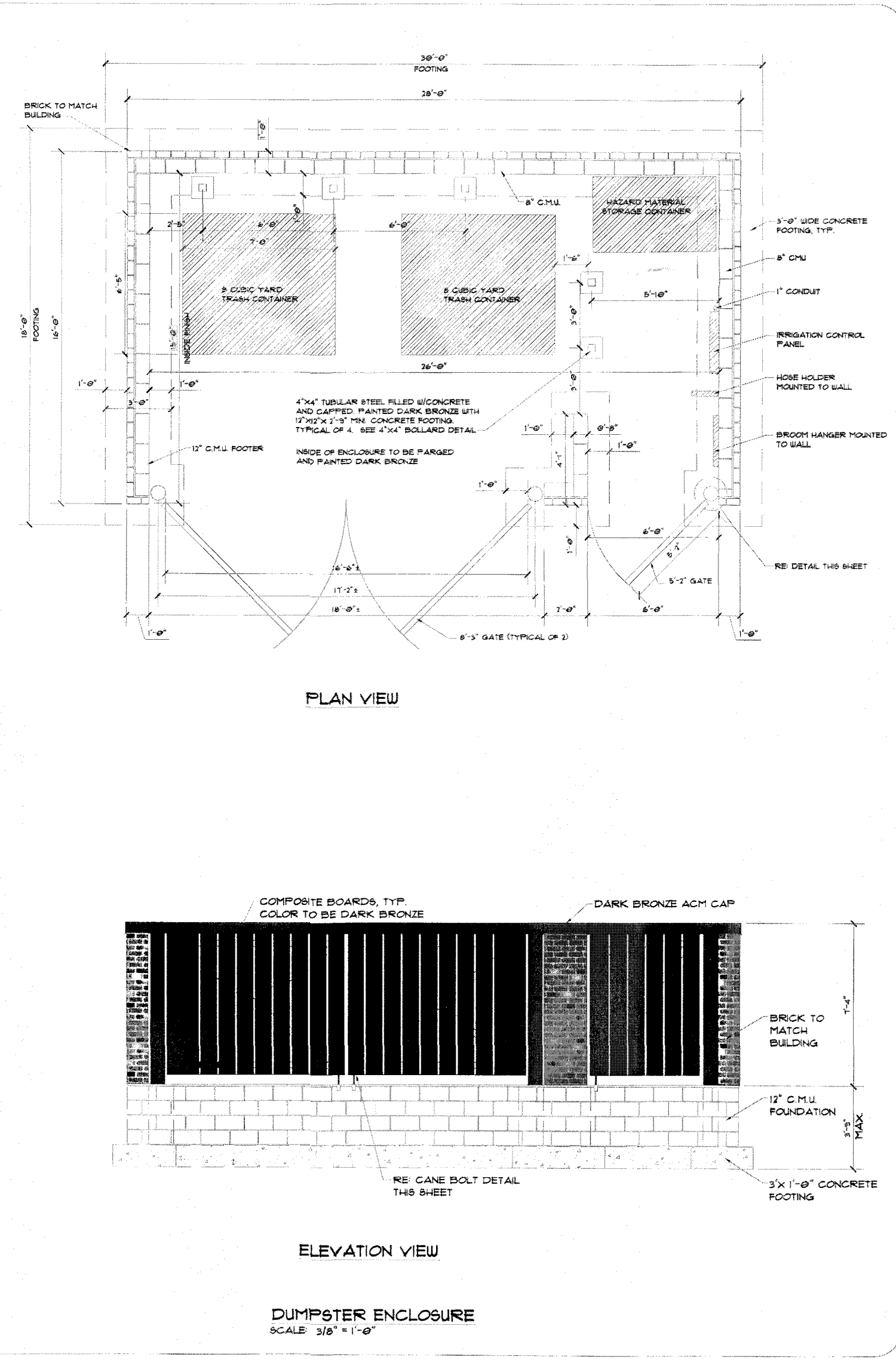
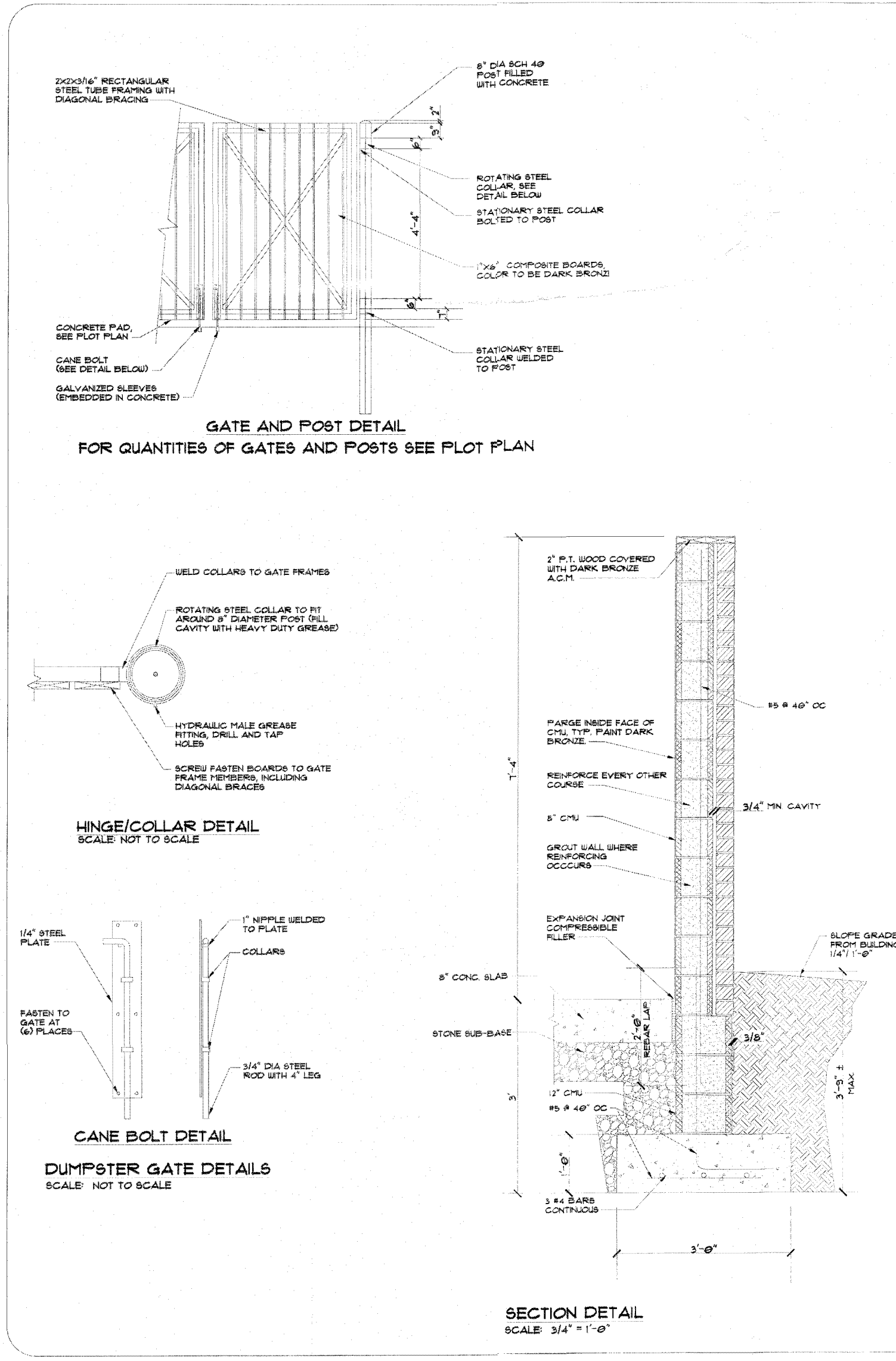


BIKE RACK
SCALE: NO SCALE

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DATE	DESCRIPTION	BY	CHKD
23			

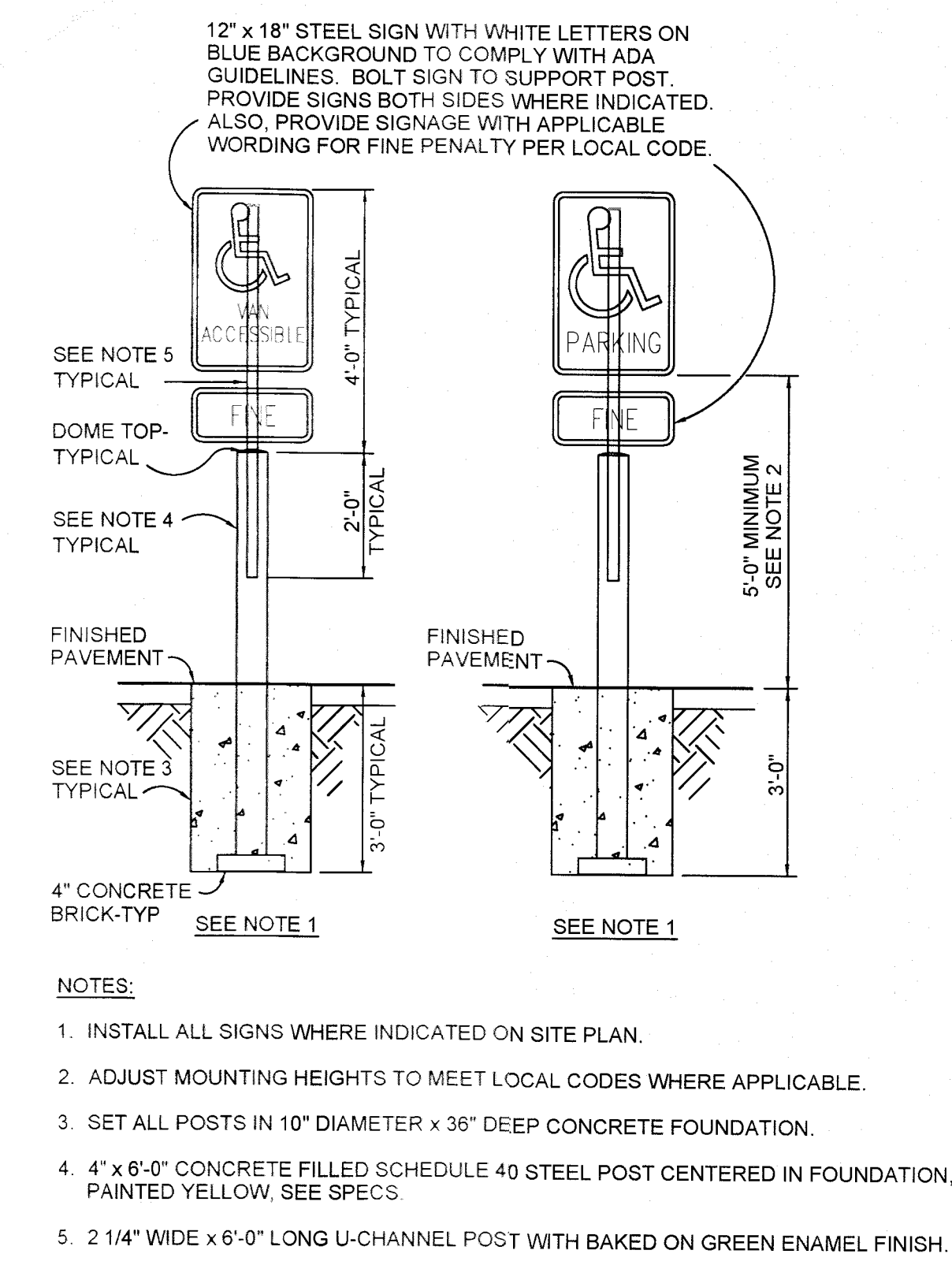
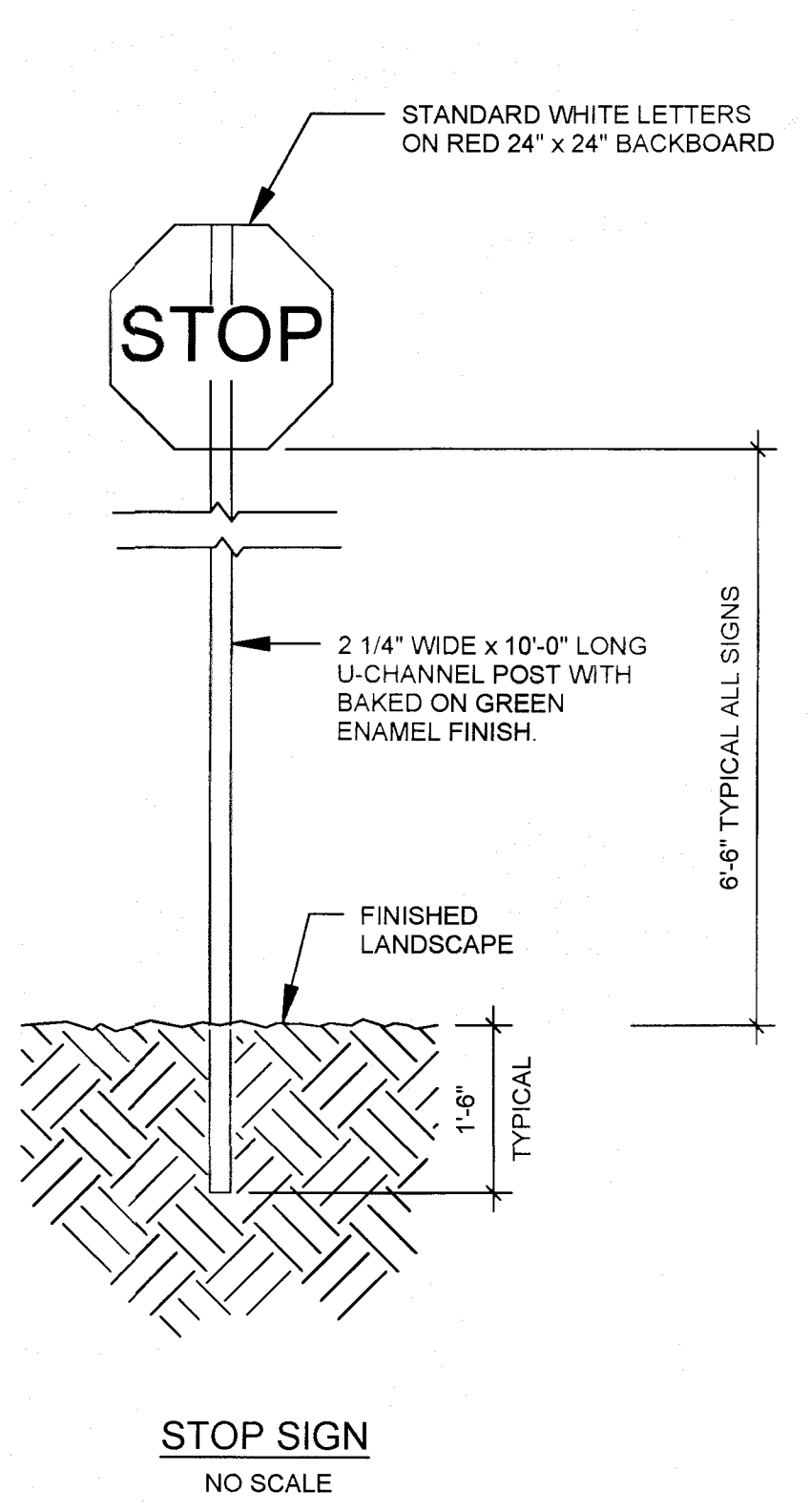
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PROJECT MANAGER	JDM	NO.		DATE	DESCRIPTION	
DESIGNED BY	JDM	NO.		DATE	DESCRIPTION	
DRAWN BY	JDM	NO.		DATE	DESCRIPTION	
		NO.		DATE	DESCRIPTION	



TRASH ENCLOSURE DETAIL FROM BUILDING RIGHT HAND

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SCALE	AS SHOWN
DATE	12/21/21
DRAWN BY	JDM
PLotted	12/21/21



SHEETZ DETAILS CONT.

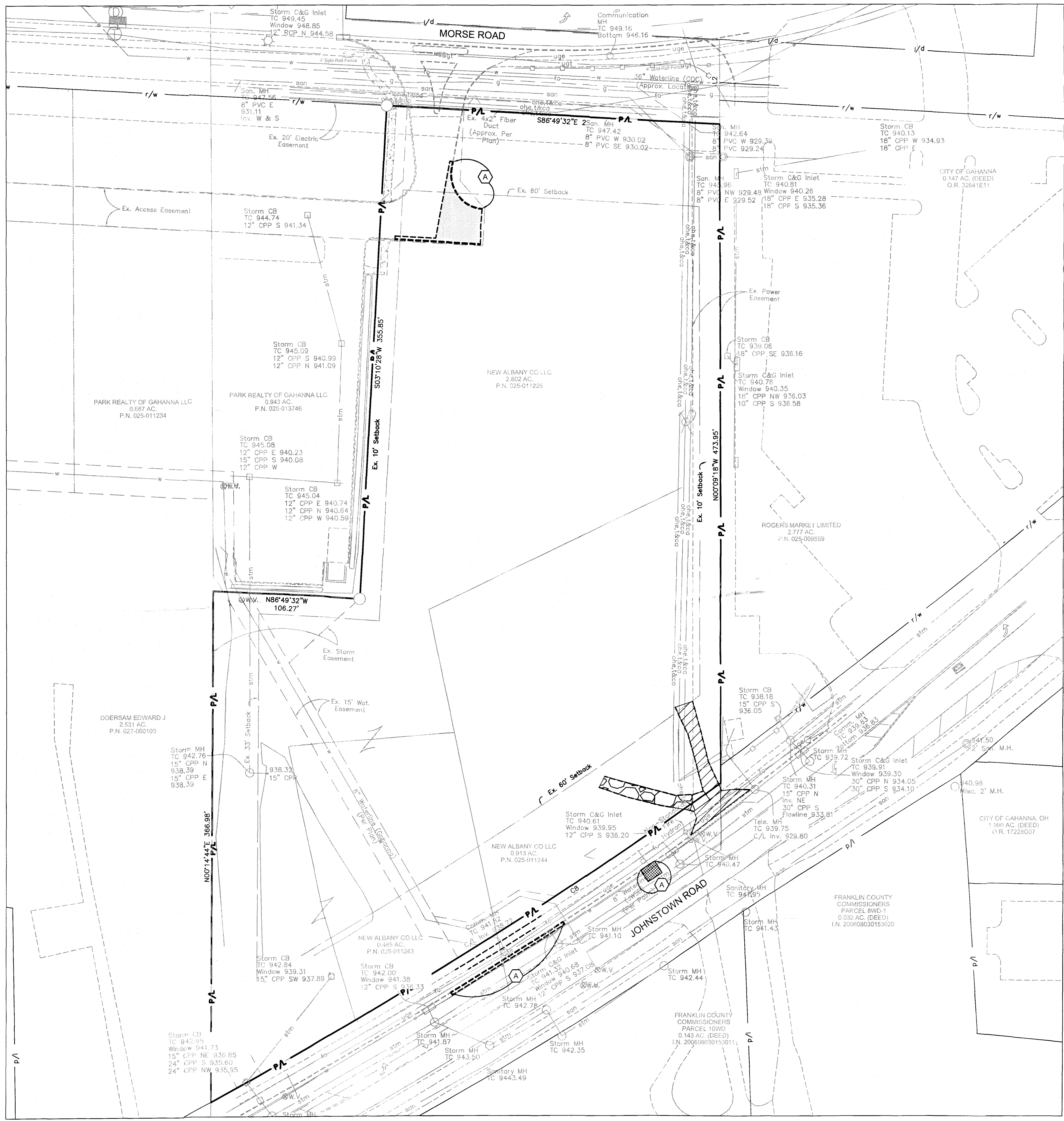
SHEETZ GAHANNA

GAHANNA S04



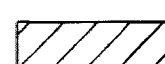
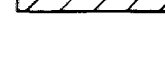

OH

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DRAWING NO.
C1.4



LEGEND

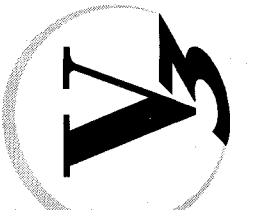
-  EXISTING ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED OF.
-  EXISTING GRAVEL DRIVE PAVEMENT TO BE REMOVED AND DISPOSED OF.
-  EXISTING CONCRETE DRIVE APPROACH AND GRAVEL DRIVE TO BE MAINTAINED.
-  EXISTING PUBLIC ASPHALT TO BE REMOVED AND REPLACED DURING WATERLINE TAP INSTALLATION. REPLACE CURB IN SECTION OF ASPHALT REMOVAL.
-  PROPOSED SAWCUT

CODED NOTES

-  EXISTING CURB TO BE REMOVED AND DISPOSED OF.

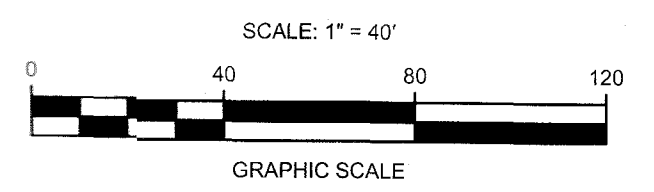
**EXISTING CONDITIONS AND
DEMOLITION PLAN
SHEETZ GAHANNA**

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DRAWING NO.
C1.6

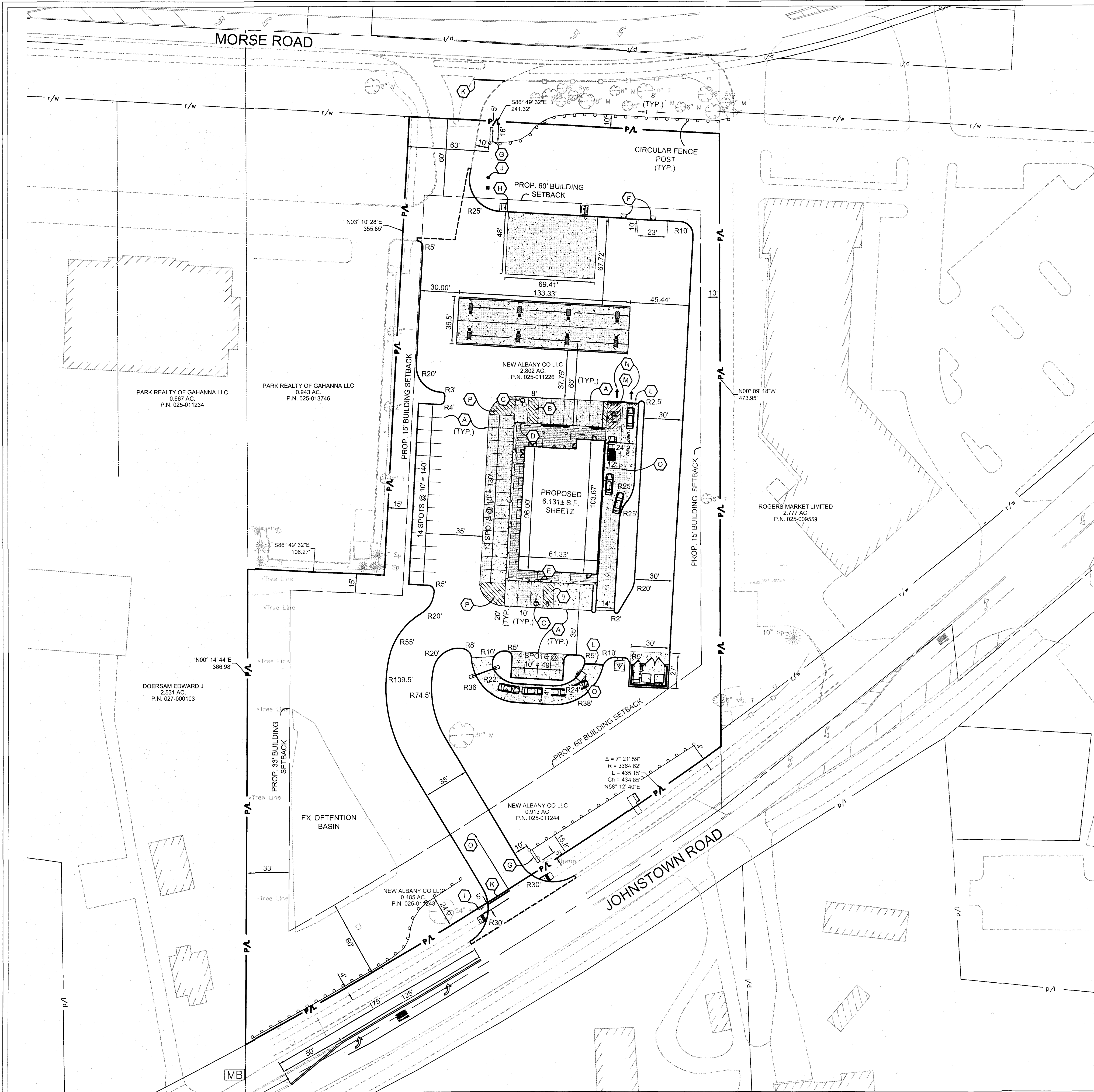
PROJECT NO.	ORIGINAL ISSUE DATE	OIDATE	REVISIONS	DESCRIPTION
211042				
PROJECT MANAGER	JDM			
DESIGNED BY	JDM			
DRAWN BY	RJB			






OH

S04

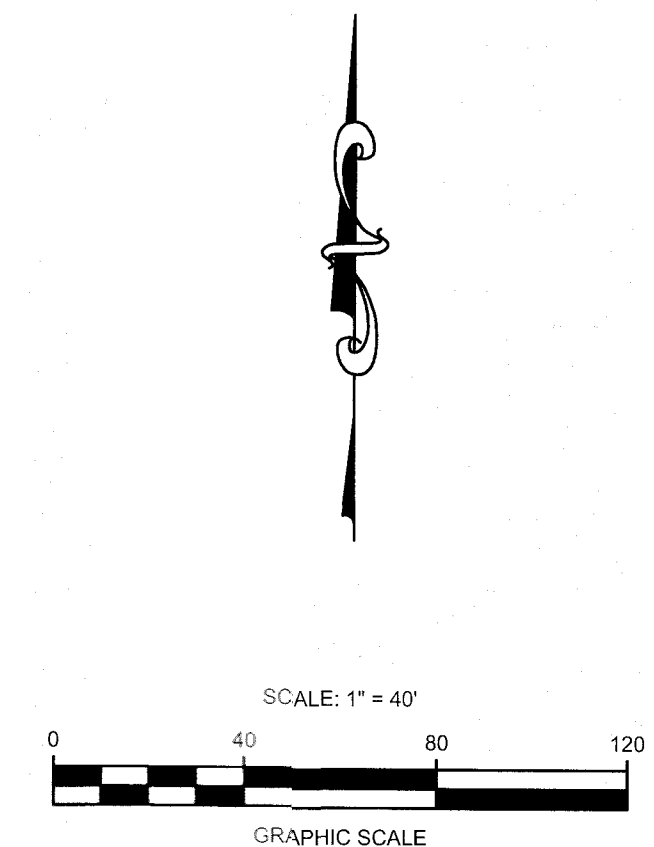
GAHANNA



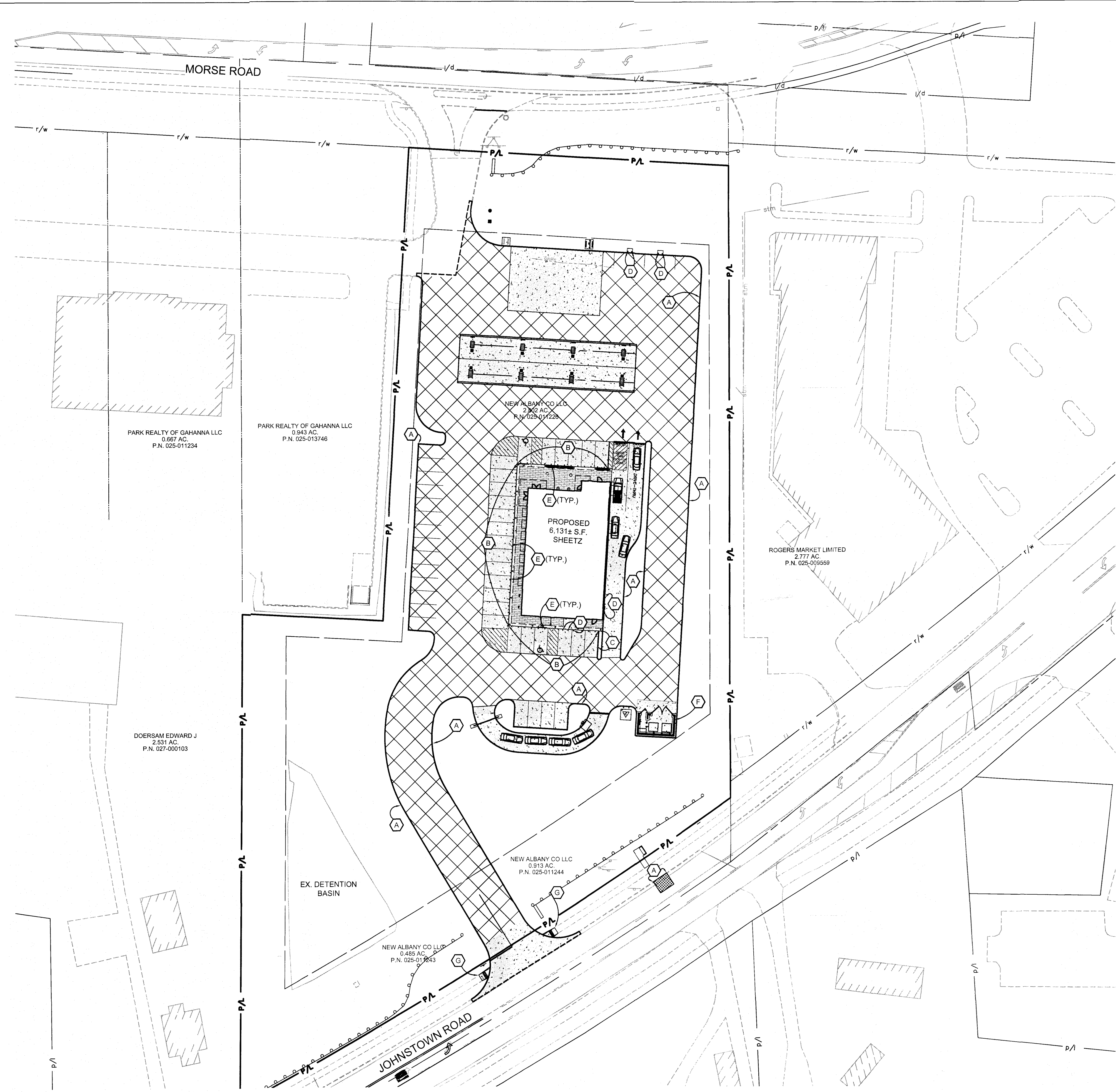
LEGEND

-  PROPOSED CONCRETE PAVEMENT PER DETAIL ON SHEET C1.5.
-  PROPOSED BRICK PAVERS.
-  PROPOSED SAWCUT


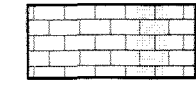

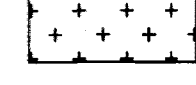
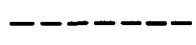
- CODED NOTES**
- (A) 4" WHITE CHANNELIZING LINE FOR PARKING STALL.
 - (B) BLUE TRANSVERSE STRIPING FOR HANDICAP AREA.
 - (C) BLUE HANDICAP SYMBOL PER DETAIL ON SHEET C1.5.
 - (D) HANDICAP PARKING SIGN PER DETAIL ON SHEET C1.4.
 - (E) "VAN ACCESSIBLE" HANDICAP PARKING SIGN PER DETAIL ON SHEET C1.4.
 - (F) AIR MACHINE AND PAD PER DETAIL ON SHEET C1.2.
 - (G) PROPOSED MONUMENT SIGN. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
 - (H) BIKE RACK PER DETAIL ON SHEET C1.4.
 - (I) "STOP" SIGN PER DETAIL ON SHEET C1.4.
 - (J) PROPOSED FLAG POLE.
 - (K) 24" WHITE STOP BAR
 - (L) STOP BAR FOR DRIVE THRU.
 - (M) DRIVE THRU PICK-UP ZONE TRANSVERSE STRIPING (RED).
 - (N) DRIVE THRU DIRECTIONAL ARROW (WHITE)
 - (O) 4" YELLOW LANE LINE
 - (P) WHITE TRANSVERSE NO PARKING AREA
 - (Q) ORDER KIOSK SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DETAILS.










SITE DIMENSION, STRIPING, AND SIGNAGE PLAN SHEETZ GAHANNA		ORIGINAL ISSUE DATE: 01/24/22	REVISIONS
		PROJECT NO.: 211042	NO. DATE
GAHANNA S04		PROJECT MANAGER: JDM	DESCRIPTION
		DESIGNED BY: JDM	NO. DATE
DRAWING NO. C2.1		DRAWN BY: OH	RUB
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LEGEND

-  PROPOSED CONCRETE PAVEMENT PER DETAIL ON SHEET C1.5.
-  PROPOSED BRICK PAVERS.
-  PROPOSED PRIVATE SITE ASPHALT PAVEMENT PER DETAIL ON SHEET C1.5.
-  PROPOSED PUBLIC ASPHALT PAVEMENT PER COC ITEM 252.
-  PROPOSED SAWCUT

CODED NOTES

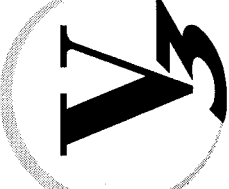
-  CONCRETE CURB PER DETAIL ON SHEET C1.2.
-  CONCRETE WALK TO BE CONSTRUCTED FLUSH WITH PROPOSED PAVEMENT ACROSS THIS AREA.
-  TAPER CURB FROM 6" REVEAL TO 0" ACROSS THIS AREA.
-  STEEL PIPE BOLLARD PER DETAIL ON SHEET C1.4.
-  STOREFRONT BUMPER POST PER DETAIL ON SHEET C1.3.
-  DUMPSTER ENCLOSURE PER DETAIL ON SHEET C1.4.
-  CURB RAMP WITH DETECTABLE WARNING MAT.

REVISIONS		DESCRIPTION
NO.	DATE	

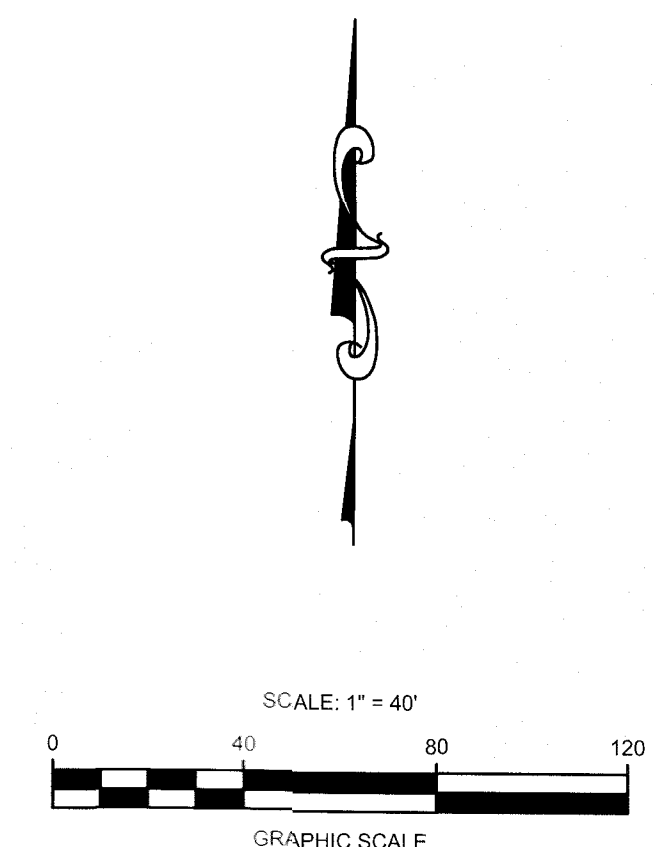
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PROJECT MANAGER:	JDM	DESIGNED BY:	JDM
DRAWN BY:	RUB		

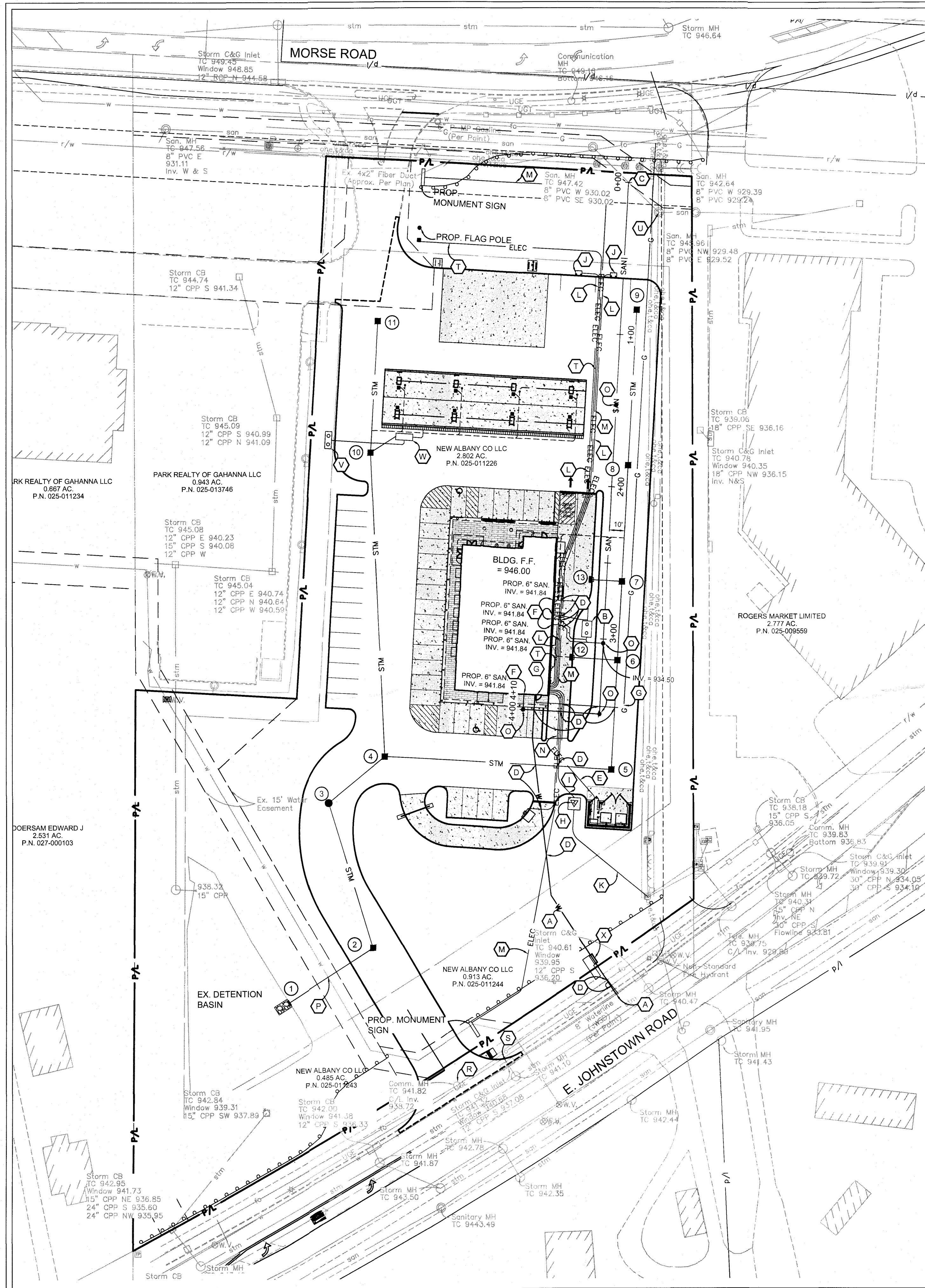
SITE PAVING PLAN
SHEETZ GAHANNA
 GAHANNA S04

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 Suite 225
 Columbus, OH 43235
 614.761.1661 phone
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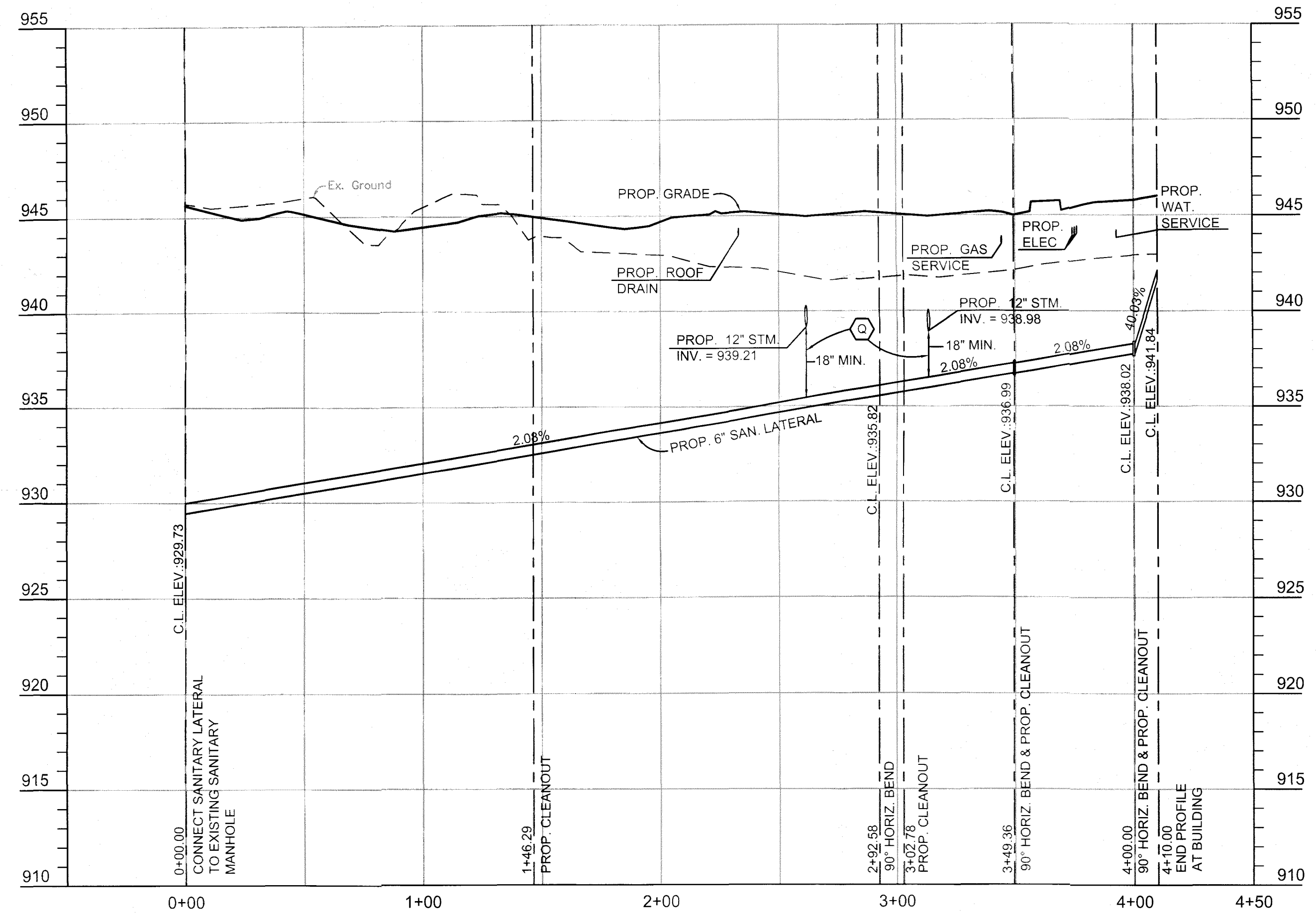
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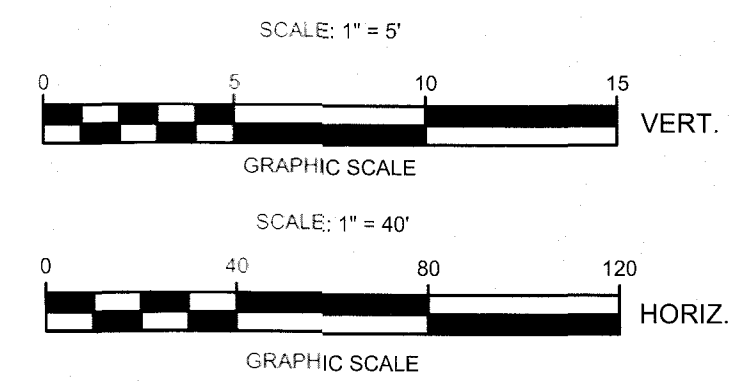


CODED NOTES

- (A) PROPOSED 2" WATER SERVICE TAP PER COC STANDARD DRAWING L-9901. INSTALL CURB STOP 1' INTERIOR TO PROPOSED RIGHT-OF-WAY. WATER SERVICE SHALL BE CONSTRUCTED USING PEX PIPE. BACKFLOW PREVENTER TO BE INSTALLED IN BUILDING.
- (B) PROPOSED SANITARY GREASE INTERCEPTOR PER DETAIL ON SHEET C1.4.
- (C) CONNECT SANITARY LATERAL TO PROPOSED SANITARY SEWER PER SEPARATE PLANS. PROVIDE 8" x 6" WYE INV. 929.73. PROVIDE 4" RISER. CONTRACTOR TO FIELD VERIFY.
- (D) MAINTAIN 18" OF VERTICAL CLEARANCE BETWEEN UTILITIES (OUTSIDE OF PIPE TO OUTSIDE OF PIPE).
- (E) ONE 1" SCHEDULE 40 CONDUIT FOR ELECTRIC SERVICE WITH PULL WIRE FROM STORE TO DUMPSTER (STUBBED AND CAPPED FOR FUTURE).
- (F) 6" SANITARY LATERAL TO BE INSTALLED WITHIN 5' OF BUILDING. INVERT = 941.84 AT BUILDING. PIPE TO BE RUN AT A MINIMUM SLOPE OF 2.08%.
- (G) PROPOSED 2" GAS SERVICE AND METER. CONTRACTOR TO COORDINATE WITH UTILITIES COMPANY.
- (H) PROPOSED TRANSFORMER TO BE INSTALLED BY UTILITY COMPANY. SITE CONTRACTOR SHALL PROVIDE 8' x 8' CONCRETE PAD PER TRANSFORMER PAD SPECIFICATIONS. COORDINATE WITH UTILITY COMPANY.
- (I) FOUR 4" SCHEDULE 40 CONDUIT FOR ELECTRICAL SERVICE FROM TRANSFORMER TO BUILDING.
- (J) AIR MACHINE AND PAD.
- (K) PROVIDE TWO 6" SCHEDULE 40 CONDUITS FOR ELECTRIC SERVICE TO TRANSFORMER. COORDINATE WITH UTILITIES COMPANY.
- (L) ELECTRICAL SERVICE TO AIR MACHINES FROM BUILDING. PROVIDE TWO 4" SCHEDULE 40 PVC CONDUITS.
- (M) PROPOSED ELECTRICAL LINE TO MONUMENT SIGN. PROVIDE ONE 4" SCHEDULE 40 CONDUIT.
- (N) TWO 4" SCHEDULE 40 CONDUITS FOR SERVICE FROM BUILDING TO ORDER KIOSK.
- (O) PROPOSED SANITARY SERVICE CLEANOUT.
- (P) EXISTING 8" WATER MAIN TO BE LOWERED AT PROPOSED STORM CROSSING PER COC L-7401.
- (Q) PLACE ANTI-INFILTRATION BARRIER HERE.
- (R) TELECOMMUNICATIONS MANHOLE TO BE ADJUSTED TO GRADE.
- (S) EXISTING CURB AND GUTTER INLET TO BE REMOVED AND REPLACE WITH A NEW CURB AND GUTTER INLET PER COLUMBUS STD. DWG AA-S125B. INSTALL GUTTER FRAME AND GRATES PER NEENAH R-3290-A.
- (T) PROVIDE ONE 4" SCHEDULE 40 CONDUIT FOR ELECTRIC SERVICE TO FLAG POLE LIGHT.
- (U) SANITARY MANHOLE TO BE RECONSTRUCTED TO GRADE.
- (V) PROPOSED OIL / WATER SEPARATOR VENT STACK.
- (W) PROPOSED OIL / WATER SEPARATOR.
- (X) 2" DOMESTIC METER TO BE INSTALLED WITHIN HOT BOX PER COC L-9002C. BACKFLOW PREVENTER TO BE INSTALLED IN BUILDING.



SANITARY LATERAL PROFILE
SCALE: 1" = 5' VERT., 1" = 40' HORIZ.



REVISIONS		DESCRIPTION	NO.	DATE

PROJECT NO:	211042	ORIGINAL ISSUE DATE:	
PROJECT MANAGER:	JDM	DESIGNED BY:	JDM
		DRAWN BY:	RJB

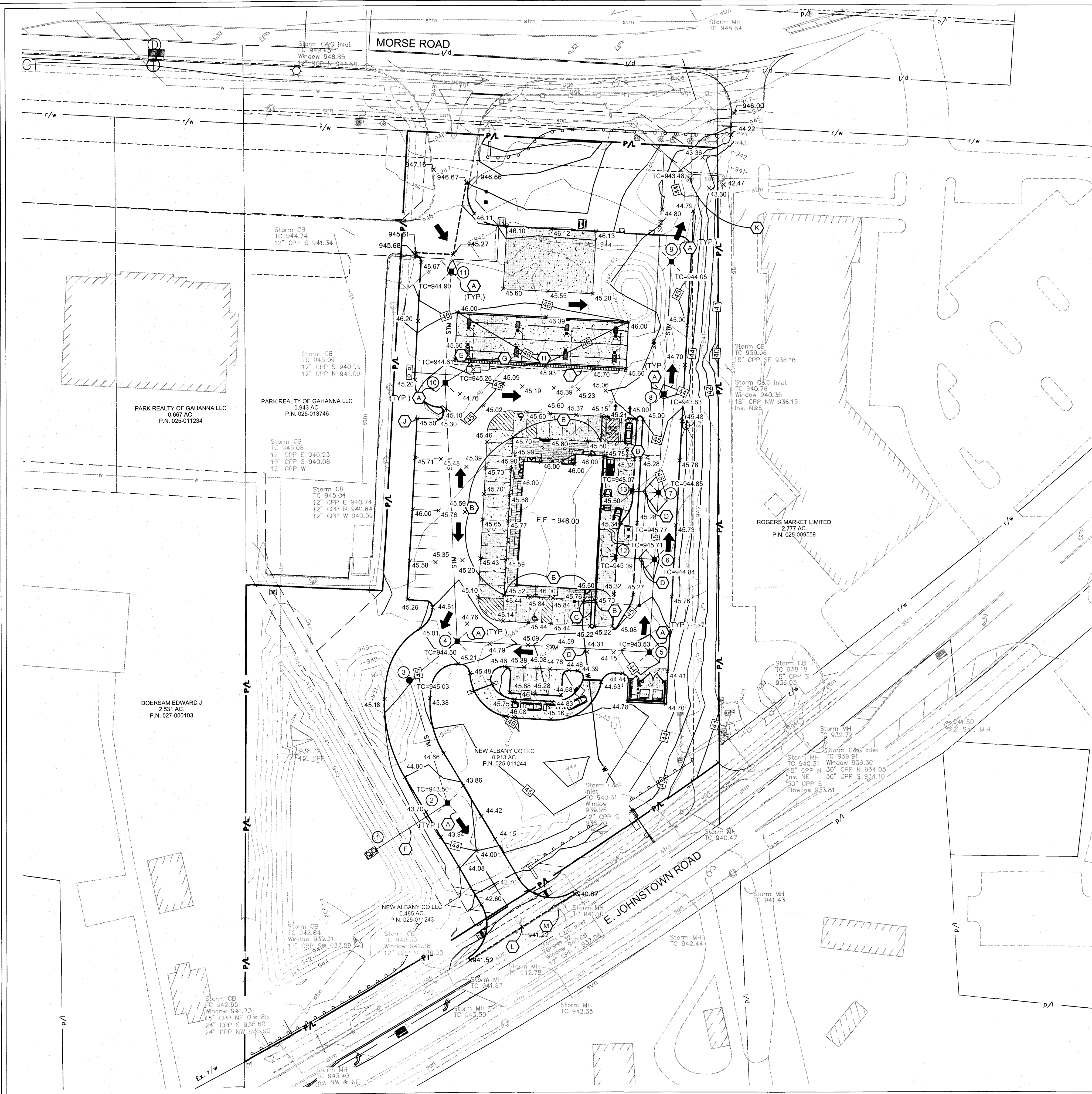
UTILITY PLAN

SHEETZ GAHANNA

GAHANNA S04

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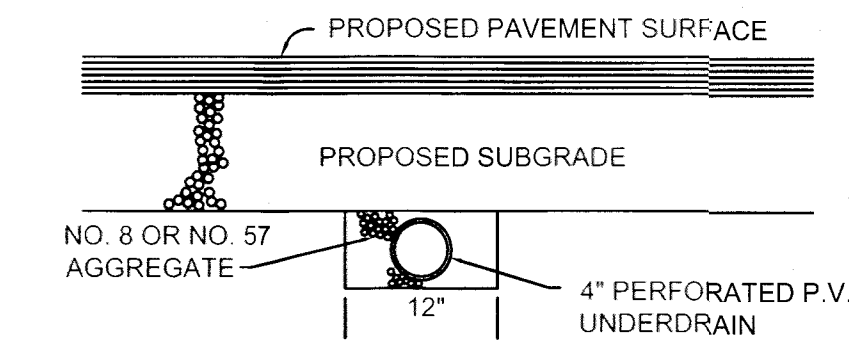
DRAWING NO.
C2.3



LEGEND

- 86.7 ——— EXISTING CONTOUR
- 86.8 ——— PROPOSED CONTOUR
- x 86.50 ——— EXISTING SPOT ELEVATION
- x 68.5 ——— PROPOSED SPOT ELEVATION
- ——— EXISTING STORM MANHOLE
- ——— PROPOSED STORM MANHOLE
- ——— EXISTING CATCH BASIN
- ——— PROPOSED CATCH BASIN
- ——— EXISTING SANITARY MANHOLE
- ——— PROPOSED SANITARY MANHOLE
- ——— EXISTING FIRE HYDRANT
- ▲ ——— PROPOSED FIRE HYDRANT
- ⊗ ——— EXISTING VALVE
- ⊙ ——— PROPOSED VALVE
- ← ——— INDICATES DIRECTION OF MAJOR FLOOD ROUTING (GREATER THAN 100 YR EVENT)

CODED NOTES



- (A) INSTALL 10 FOOT LENGTHS (WHERE ALLOWABLE) OF 4" PERFORATED P.V.C. UNDERDRAIN AT ALL STRUCTURES WITHIN PAVEMENT AREAS PER THE ABOVE DETAIL. THE UNDERDRAIN IS TO BE INSTALLED AT A 1.00% GRADE TOWARD THE STRUCTURE, WITH THE UPSTREAM END PLUGGED, AND THE INVERT AT THE STRUCTURE 18" BELOW THE PROPOSED RIM ELEVATION. THE UNDERDRAIN SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC AFTER INSTALLATION.
- (B) CONCRETE SIDEWALK TO BE CONSTRUCTED FLUSH WITH PROPOSED PAVEMENT ACROSS THIS AREA.
- (C) TAPER CURB FROM 6" REVEAL TO 0" ACROSS THIS AREA.
- (D) MAINTAIN 18" OF VERTICAL CLEARANCE (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) BETWEEN PROPOSED STORM AND UTILITY.
- (E) PROPOSED OIL/WATER SEPARATOR AS MANUFACTURED BY HIGHLAND TANK 00350HGDWHTCG OR APPROVED EQUAL.
- (F) EXISTING 8" WATER MAIN TO BE LOWERED UNDER PROPOSED STORM SEWER PER COC STD. DWG. L-7401. MAINTAIN A MINIMUM CLEARANCE OF 18" (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) BETWEEN PROPOSED STORM SEWER AND EXISTING WATER.
- (G) INSTALL RISER TO CONNECT TRENCH DRAIN OUTLET TO 40 PVC DRAIN. INVERT AT TOP OF RISER = 944.56. LENGTH OF RISER TO BE FIELD VERIFIED.
- (H) 8" SCHEDULE 40 PVC DRAIN BETWEEN TRENCH DRAIN AND OIL WATER SEPARATOR. MAINTAIN SLOPE OF 2.08%.
- (I) PROPOSED ZURN TRENCH DRAIN Z886-HD5-DGE. TRENCH DRAIN TO RUN FROM A MINIMUM DEPTH OF 3.5" TO A MAXIMUM DEPTH OF 12.5" AT THE OUTLET PIPE.
- (J) PROPOSED OIL/WATER SEPARATOR VENT STACK
- (K) SANITARY MANHOLE TO BE RECONSTRUCTED TO GRADE
- (L) TELECOMMUNICATIONS MANHOLE TO BE ADJUSTED TO GRADE.
- (M) EXISTING CURB AND GUTTER INLET TO BE REMOVED AND REPLACE WITH A NEW CURB AND GUTTER INLET PER COLUMBUS STD. DWG AA-S125B. INSTALL GUTTER FRAME AND GRATES PER NEENAH R-3290-A.

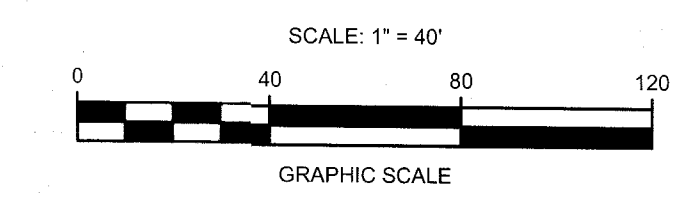
REVISIONS		DESCRIPTION
NO.	DATE	

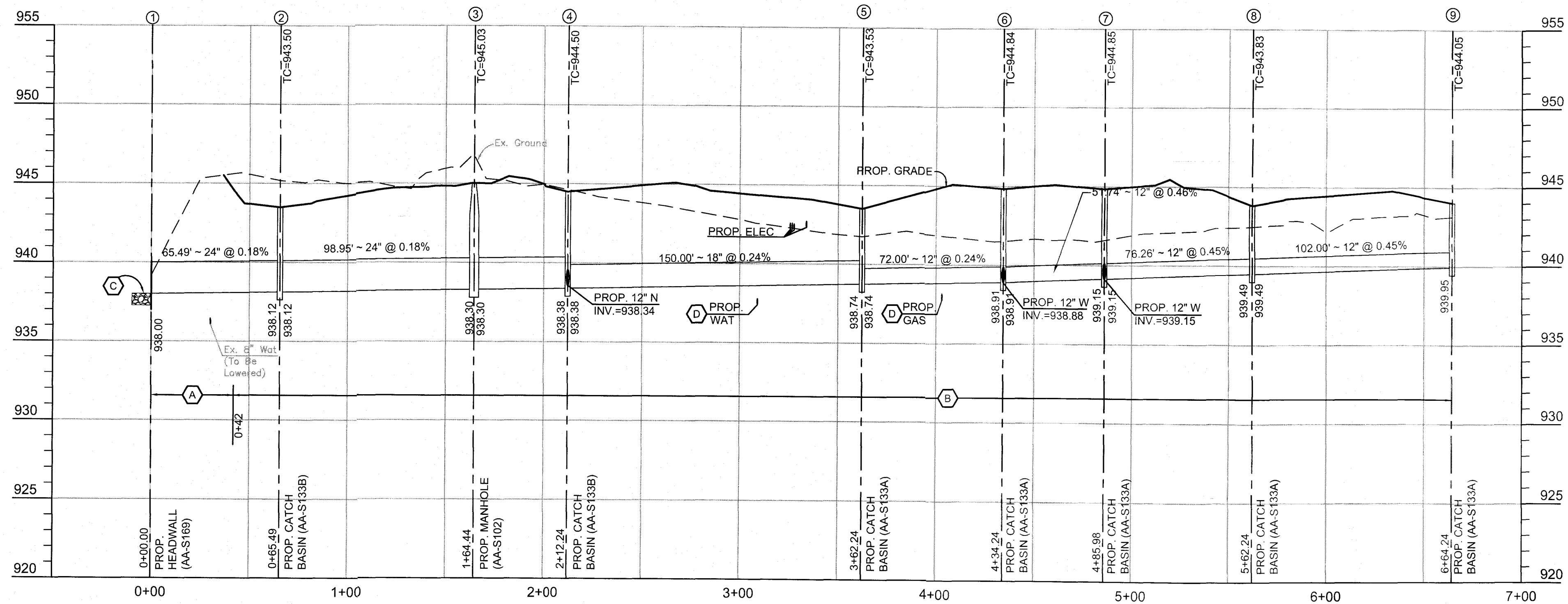
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211042	JDM	JDM	RUB

ORIGINAL ISSUE DATE:	DATE	DESCRIPTION

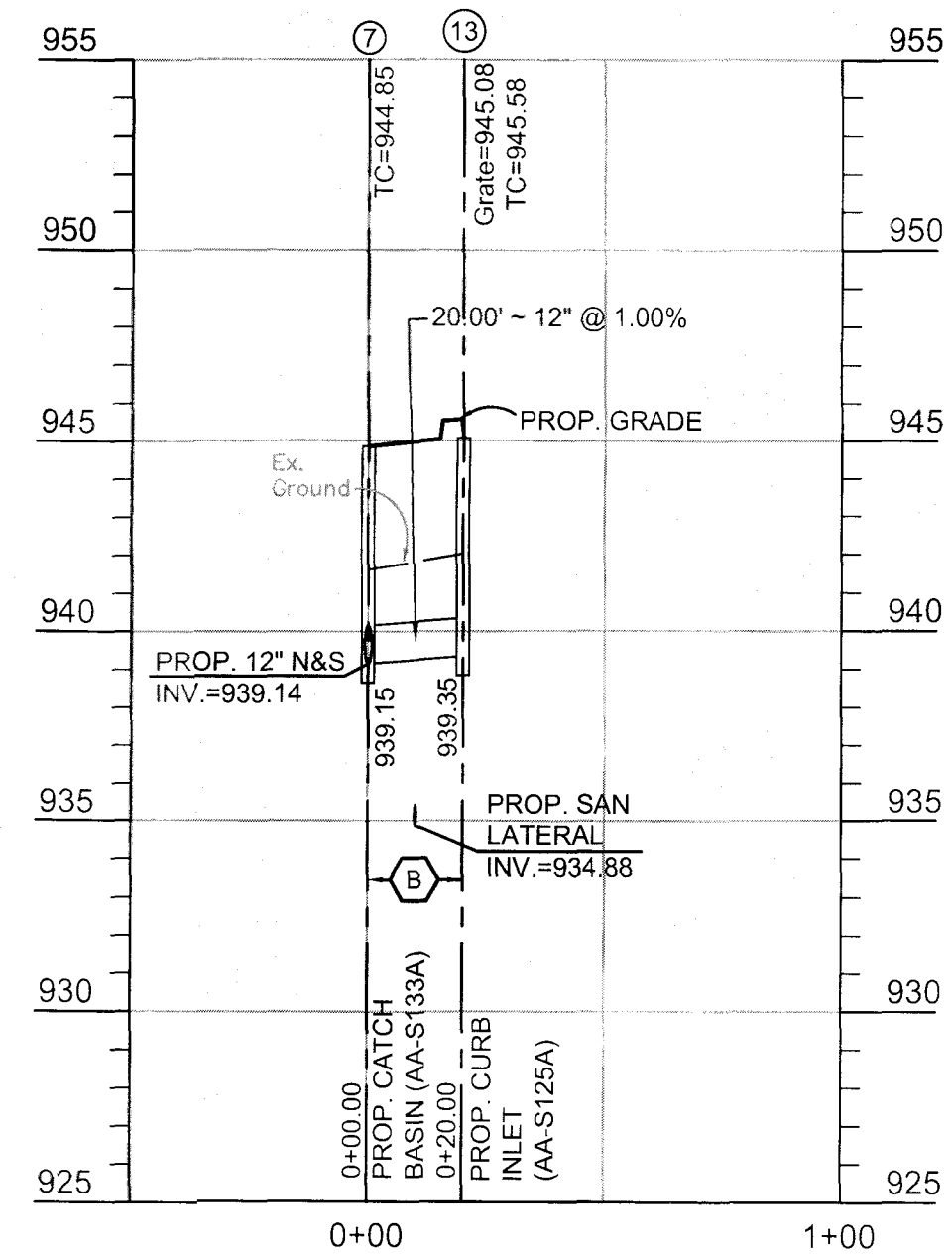
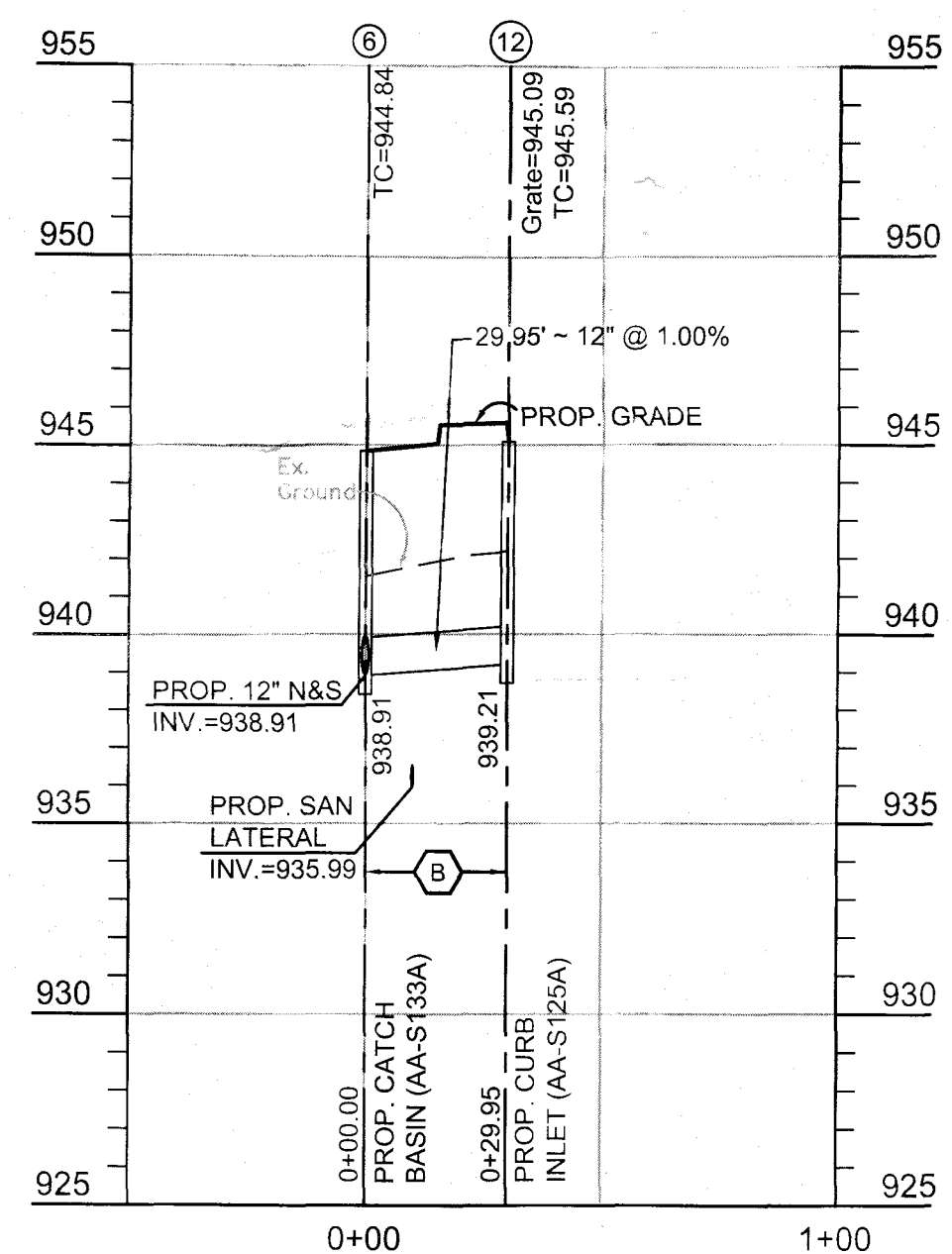
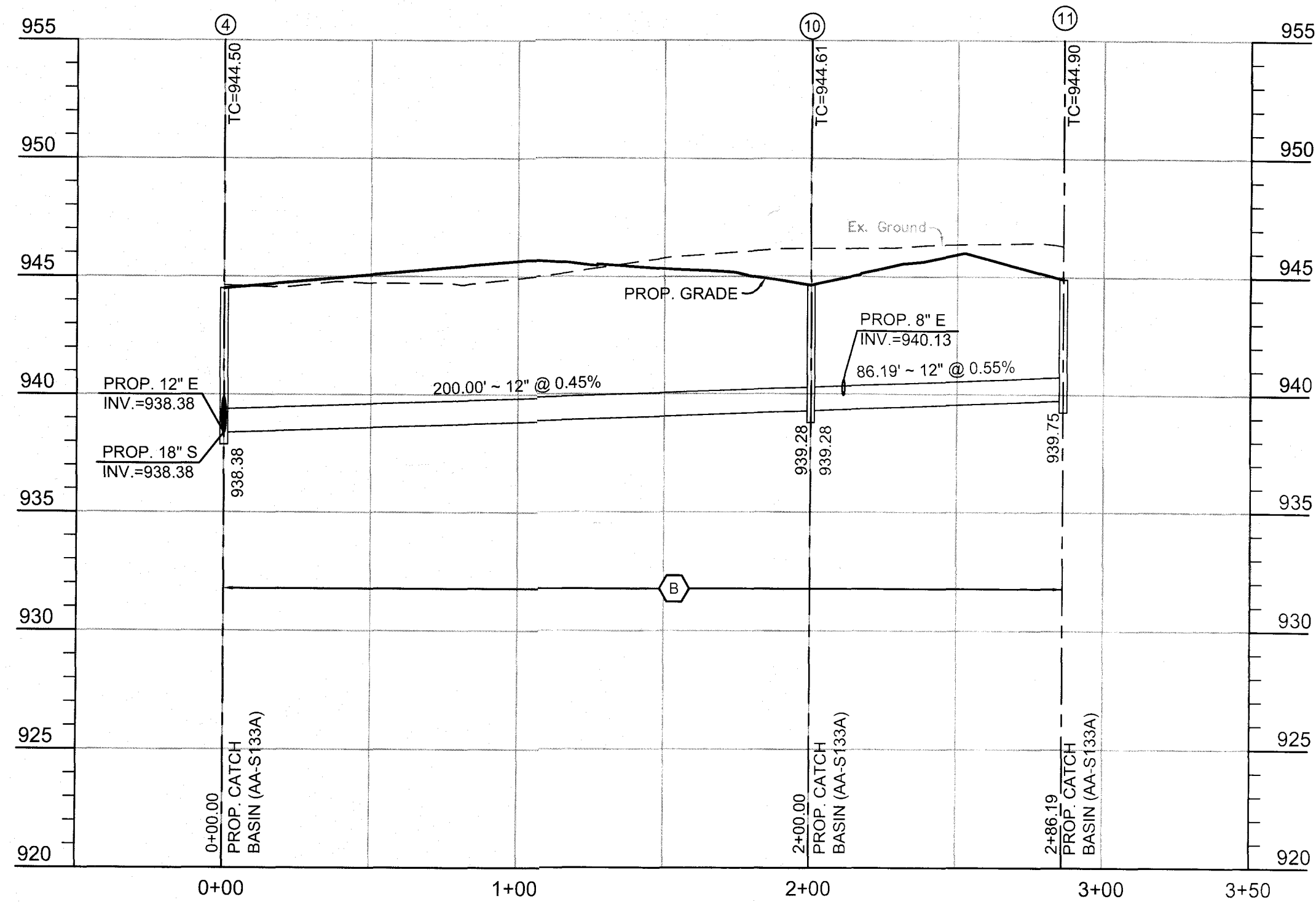
STORM SEWER AND GRADING PLAN SHEETZ GAHANNA	GAHANNA
	S04
	OH

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DRAWING NO.	
C3.1	



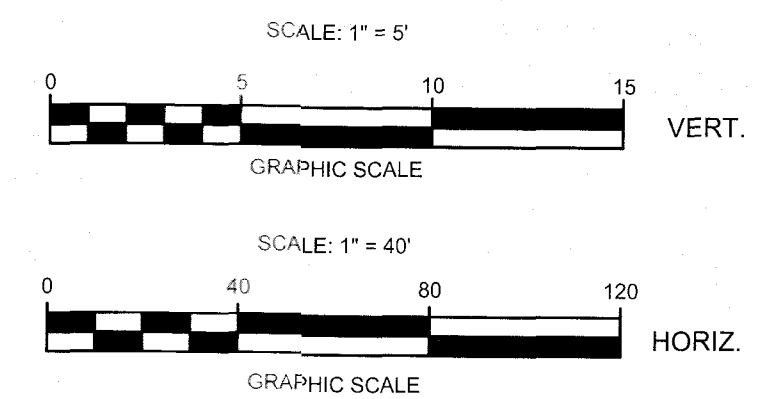


- CODED NOTES**
- (A) COMPACTED BACKFILL PER CITY OF COLUMBUS ITEM 911.
 - (B) COMPACTED GRANULAR MATERIAL PER CITY OF COLUMBUS ITEM 912.
 - (C) ROCK CHANNEL PROTECTION, TYPE "C" (10' L x 6' W x 1.5' D).
 - (D) MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE (FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) BETWEEN PROPOSED STORM SEWER AND SPECIFIED UTILITY.



Structure Table				
Structure Name	Pr. Northing	Pr. Easting	ASB Northing	ASB Easting
1	747877.2268	1871930.0312		
2	747912.6623	1871985.1064		
3	748007.1743	1871955.8066		
4	748037.4245	1871992.8128		
5	748029.1063	1872142.5820		
6	748101.0011	1872146.5272		
7	748152.6599	1872149.4442		
8	748228.7985	1872153.6730		
9	748330.6415	1872159.3294		
10	748237.2167	1871983.6976		
11	748323.2778	1871988.4775		
12	748102.6422	1872116.6200		
13	748153.7688	1872129.4780		

Pipe Table		
Pipe Name	Bearing	Length
1-2	S57°14'34"W	65.49
2-3	S17°13'27"E	98.95
4-3	N50°44'10"E	47.80
4-10	S02°36'44"E	200.00
4-5	N86°49'16"W	150.00
5-6	S03°10'44"W	72.00
6-12	S86°51'33"E	29.95
6-7	S03°10'44"W	51.74
7-13	S86°49'16"E	20.00
7-8	S03°10'44"W	76.26
8-9	S03°10'44"W	102.00
10-11	S03°10'44"W	86.19



REVISIONS		DESCRIPTION
NO.	DATE	

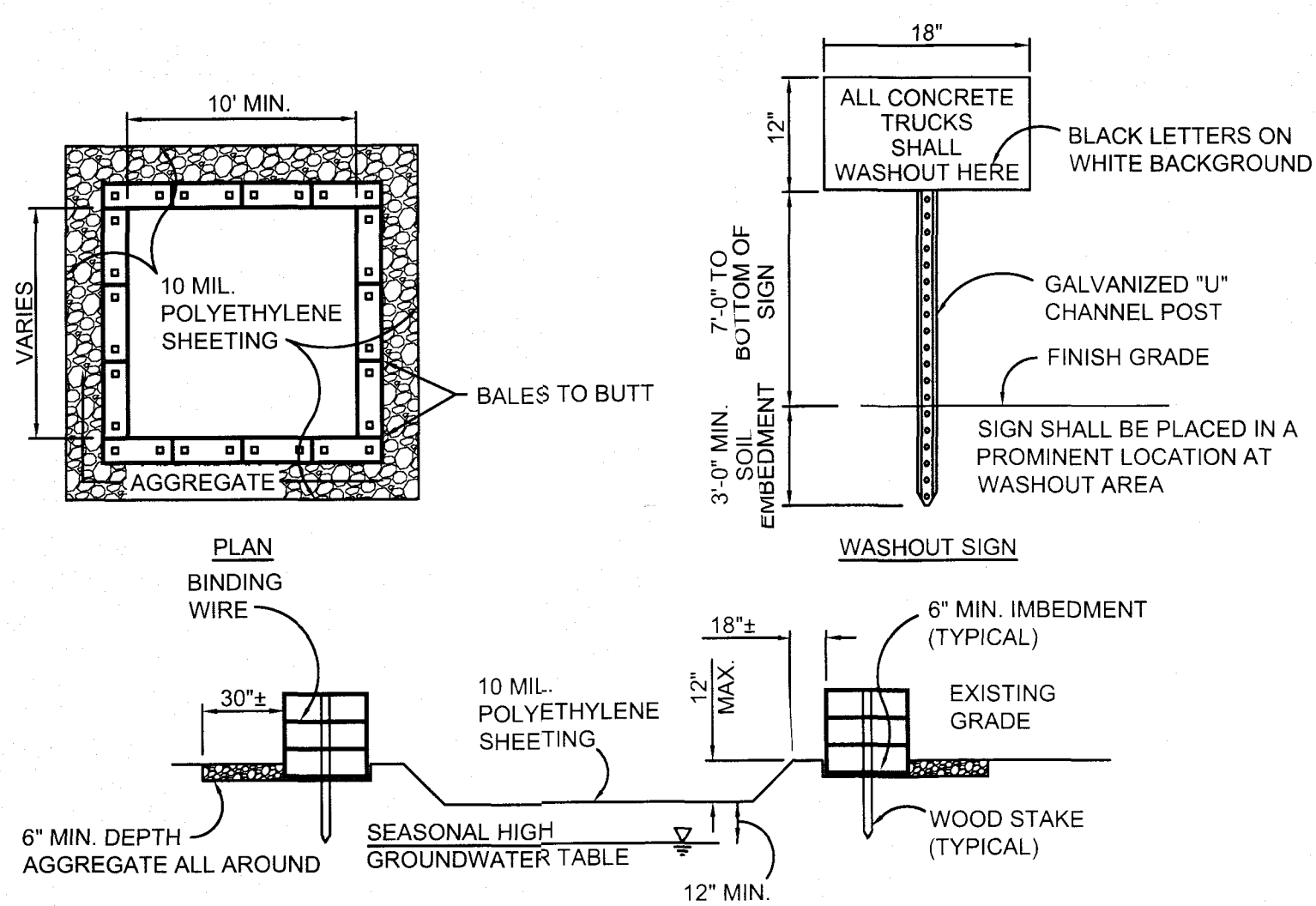
PROJECT NO.:	211042
PROJECT MANAGER:	JDM
DESIGNED BY:	JDM
DRAWN BY:	RJB

STORM PROFILES
SHEETZ GAHANNA
 S04
 GAHANNA

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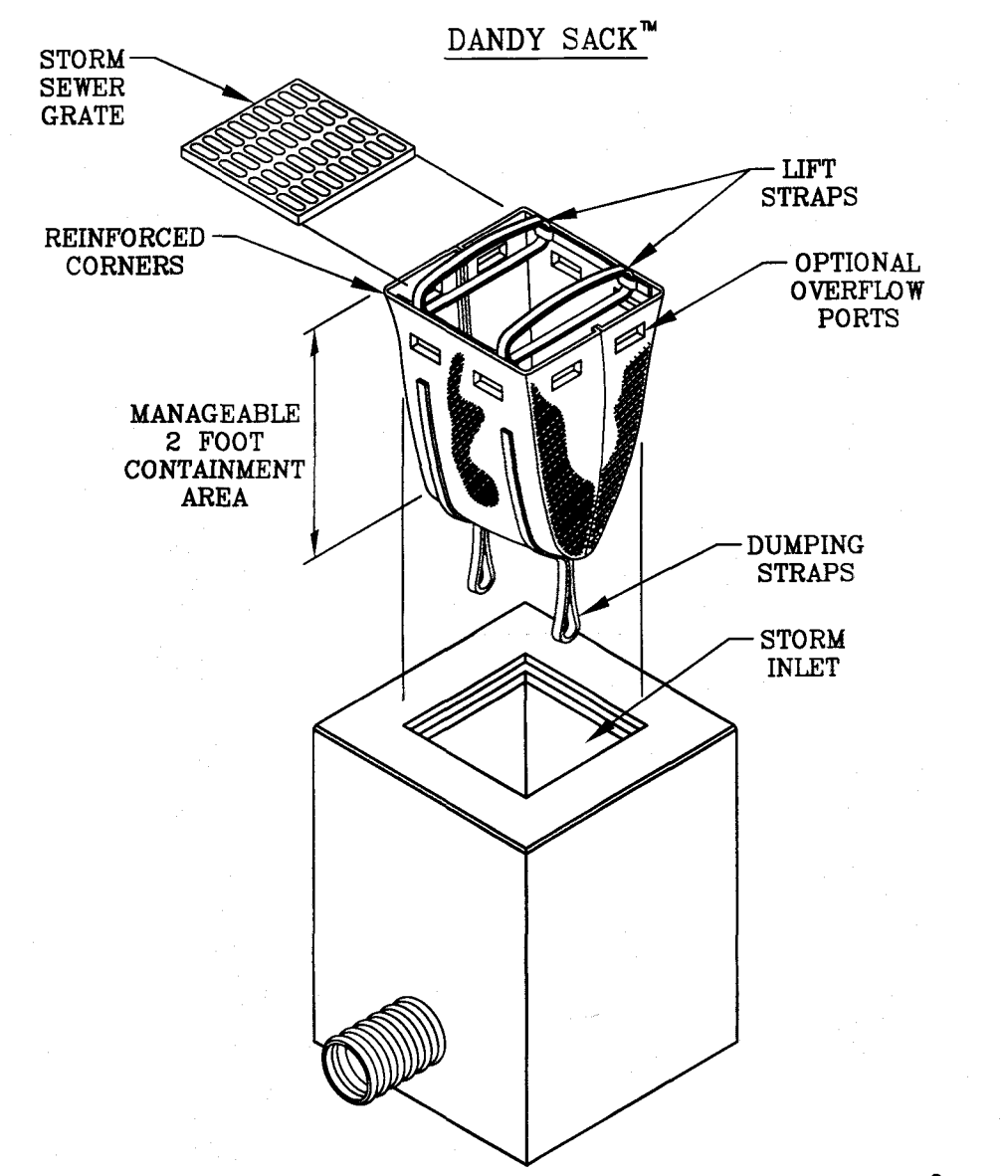
C3.2

THIS PLAN MUST BE POSTED ON-SITE
IN THE PROJECT TRAILER.
A COPY OF THE EROSION AND SEDIMENT
CONTROL PLAN
SHALL BE KEPT ONSITE AT ALL TIMES.



- NOTES:**
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
 2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
 3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
 4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
 6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CWA CONCRETE WASHOUT AREA
NO SCALE



DANDY SACK™ SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOPLANT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

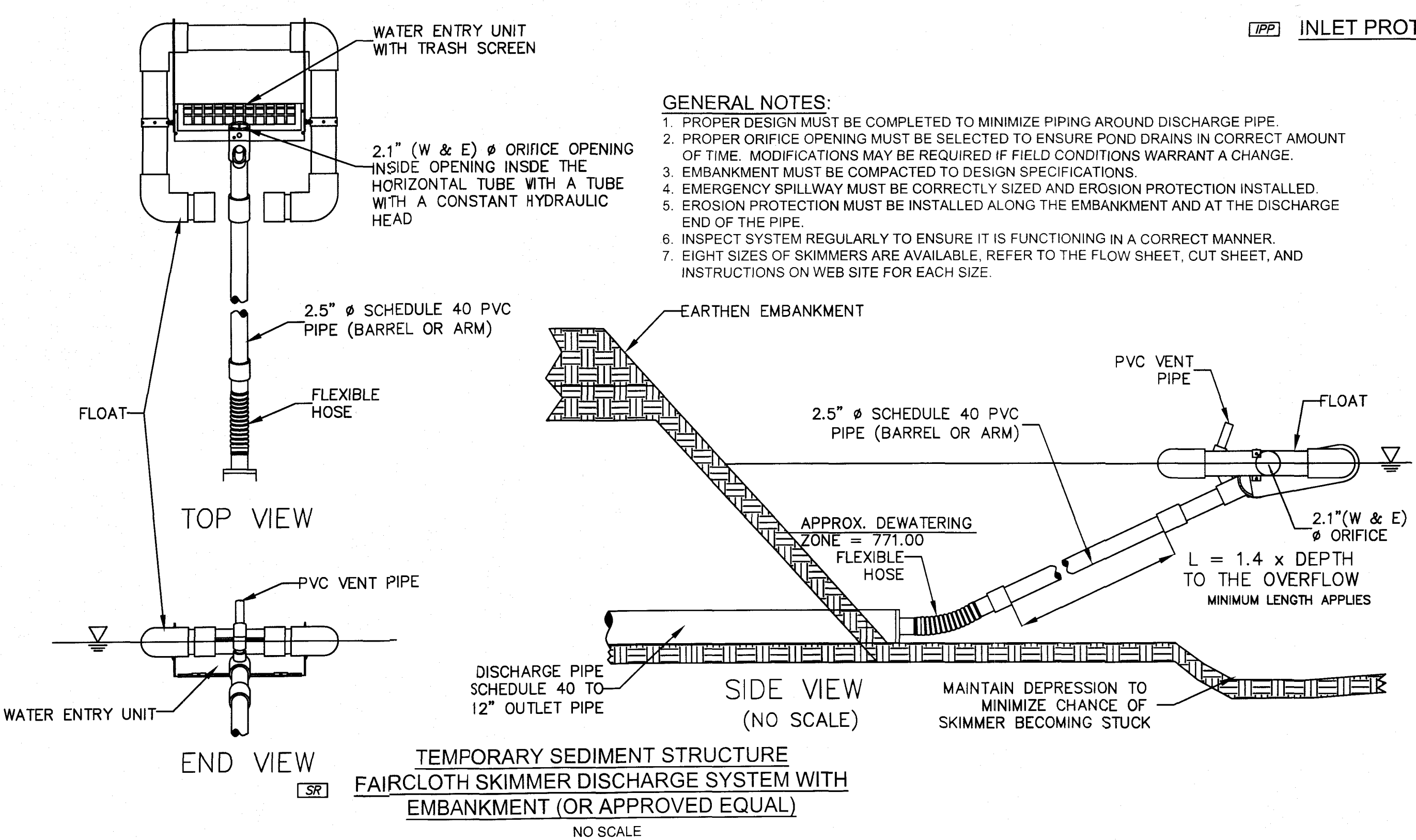
Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbf)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4633	kN (lbf)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	psi (psf)	2505 (600)
Trapezoid Tear Strength	ASTM D 4633	psi (psf)	0.67 (150) x 0.73 (165)
UV Resistance	ASTM D 4356	%	90
Apparent Opening Size	ASTM D 4751	mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4481	l/min/m ² (gal/min/ft ²)	2552 (70)
Permittivity	ASTM D 4481	Sec ⁻¹	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbf)	1.82 (365) x 0.88 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4633	kN (lbf)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	psi (psf)	3097 (450)
Trapezoid Tear Strength	ASTM D 4633	psi (psf)	0.51 (115) x 0.53 (75)
UV Resistance	ASTM D 4356	%	90
Apparent Opening Size	ASTM D 4751	mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4481	l/min/m ² (gal/min/ft ²)	3902 (145)
Permittivity	ASTM D 4481	Sec ⁻¹	2.1

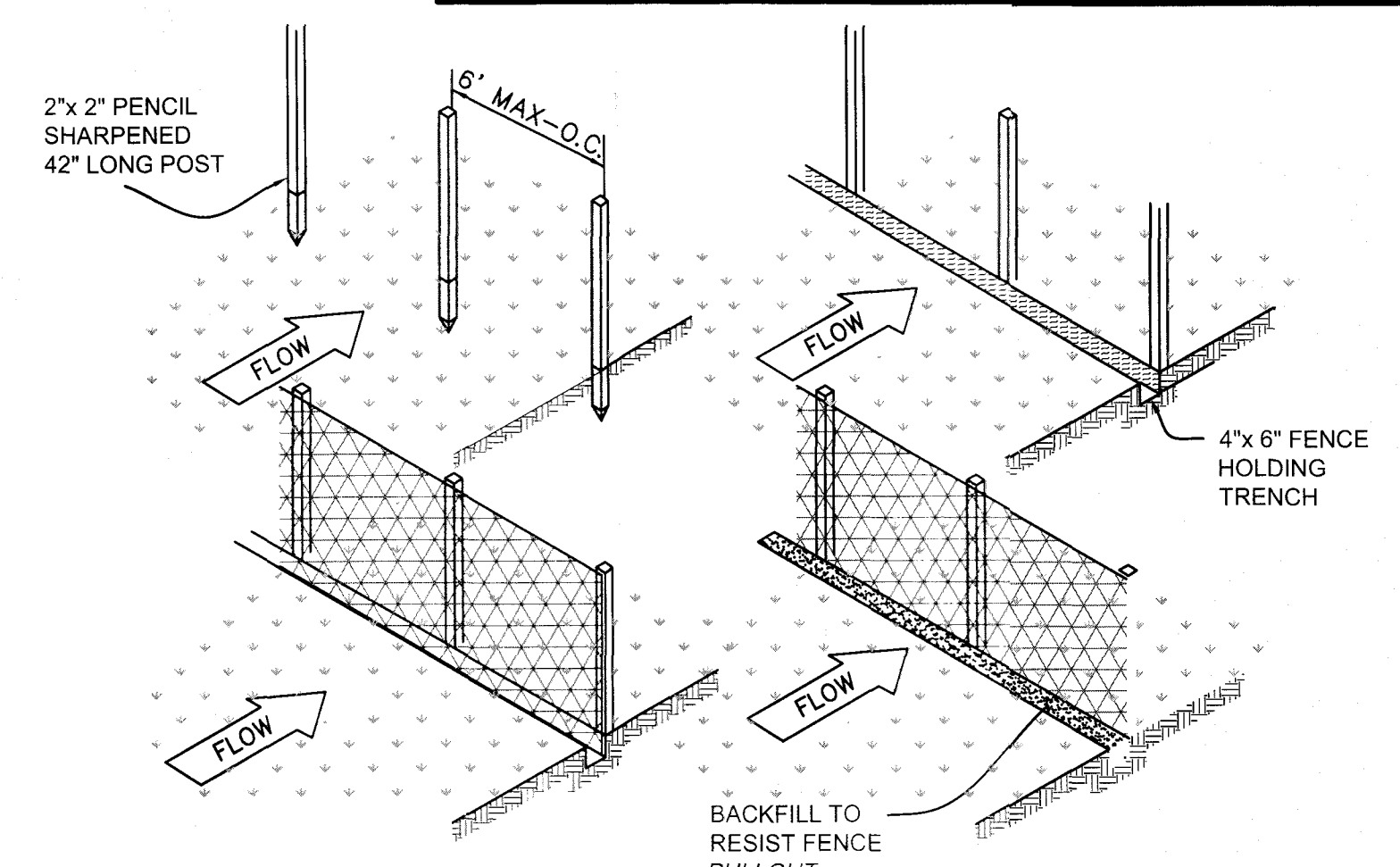
*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

[PP] INLET PROTECTION - PAVEMENT
NO SCALE



- GENERAL NOTES:**
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
 2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
 3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
 4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
 5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
 6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
 7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE. REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

[SF] TEMPORARY SEDIMENT STRUCTURE FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH EMBANKMENT (OR APPROVED EQUAL)
NO SCALE



SEDIMENT FENCE FABRIC SHALL BE ODOT, TYPE 'C' GEOTEXTILE FABRIC OR THE EQUIVALENT TO FOLLOWING PROPERTIES:

MATERIAL PROPERTIES

MAXIMUM TENSILE STRENGTH	120 LBS.
MAXIMUM ELONGATION AT 60 LBS.	50%
MINIMUM TEAR STRENGTH	40 LBS.
MINIMUM BURST STRENGTH	200 LBS.
APPARENT OPENING SIZE	0.84 MM
MINIMUM PERMITTIVITY	1X10 ⁻² SEC
ULTRAVIOLET EXPOSURE STRENGTH RETENTION	70%

- SILT FENCE:**
THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED. MATERIAL PROPERTIES ARE LISTED IN THE PROVIDED TABLE.
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6 INCH OVERLAP, AND SECURELY SEALED.
 3. POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WOOD POSTS WILL BE MINIMUM OF 32 INCHES LONG WITH EXTRA STRENGTH FABRIC IS USED WITH WIRE SUPPORT FENCE.
 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 5. THE STANDARD STRENGTH FILTER SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 6. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
 7. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 8. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THE ENDS ARE HIGHER ELEVATION.

MAINTENANCE:
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDING.

[SF] SEDIMENT FENCE
NO SCALE

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO: 211042
PROJECT MANAGER: JDM
DESIGNED BY: JDM
DRAWN BY: RJB
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