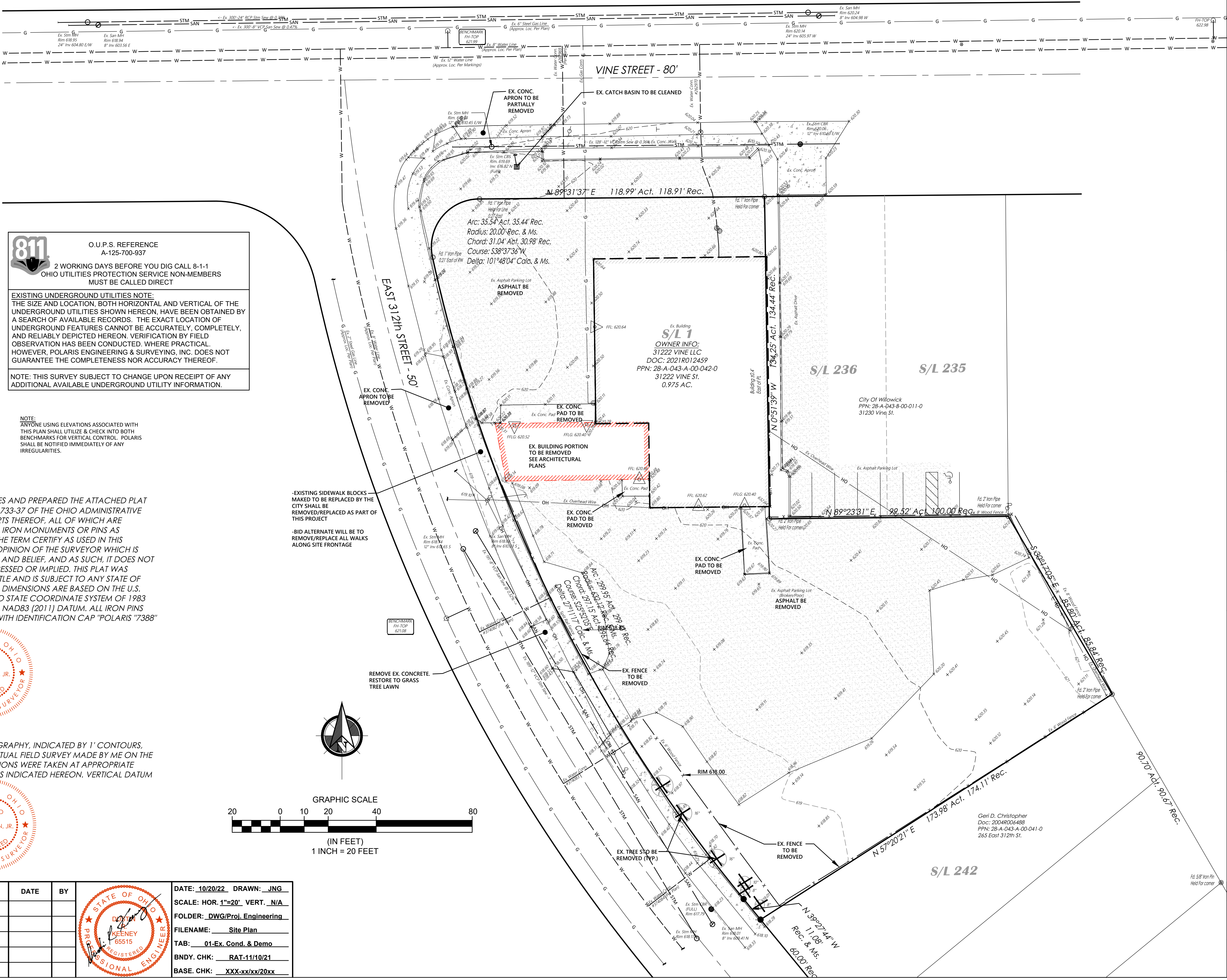


SYMBOL LEGEND	
	Ex. Clean Out
	Ex. Catch Basin
	Prop. Catch Basin
	Ex. Curb Inlet
	Prop. Curb Inlet
	Ex. Yard Drain
	Ex. Manhole
	Ex. Sanitary Manhole
	Prop. Sanitary Manhole
	Ex. Storm Manhole
	Prop. Storm Manhole
	Storm Inlet MH
	Ex. Water Valve
	Prop. WL Valve
	Water Meter
	Ex. Fire Hydrant
	Prop. Hydrant
	Well
	Gas Valve
	Gas Meter
	Mailbox
	Guy Wire
	Power Pole
	Light Power Pole
	Light Pole
	Traffic Signal Pole
	Traffic Signal Box
	Cable TV Box
	Electrical Box
	Telephone (SAC) Box
	Tree
	Pine Tree
	Bush
	Yard Light
	Gasline Marker
	Power Transformer
	SCB Sprinkler Control Box
	Sprinkler Head
	Sign
	Test Bore
	Guard Post



### Boundary Certification:

I HEREBY CERTIFY THAT I HAVE SURVEYED THE PREMISES AND PREPARED THE ATTACHED PLAT IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 4733-37 OF THE OHIO ADMINISTRATIVE CODE. THE DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF. ALL OF WHICH ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IRON MONUMENTS OR PINS AS INDICATED WERE FOUND OR SET AS SHOWN HEREON. THE TERM CERTIFY AS USED IN THIS STATEMENT IS UNDERSTOOD TO BE THE PROFESSIONAL OPINION OF THE SURVEYOR WHICH IS FORMULATED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF, AND AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED. THIS PLAT WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS REVEALED BY A EXAMINATION OF THE SAME. ALL DIMENSIONS ARE BASED ON THE U.S. SURVEY FOOT DEFINITION. BEARINGS REFER TO THE OHIO STATE COORDINATE SYSTEM OF 1983 (NORTH ZONE) BASED ON THE ODOT CORS/VRS SYSTEM NAD83 (2011) DATUM. ALL IRON PINS SET ARE 5/8 INCH DIAMETER BY 30-INCH-LONG REBAR WITH IDENTIFICATION CAP "POLARIS "7388" AS SHOWN HEREON ( ).

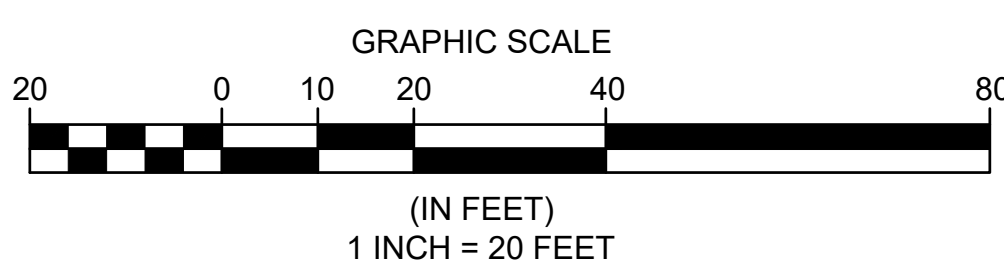
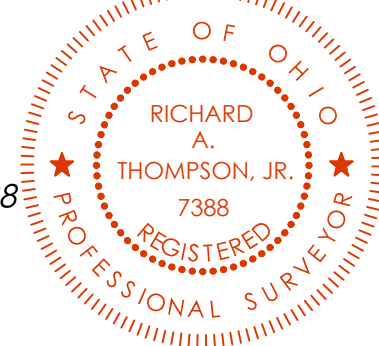
*Richard A. Thompson Jr.*  
RICHARD A. THOMPSON, JR.  
OHIO PROFESSIONAL SURVEYOR #7388  
DATE: 11/10/21



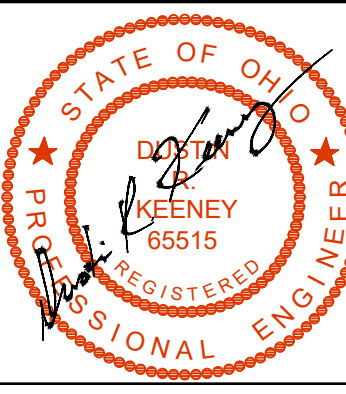
### TOPOGRAPHIC CERTIFICATION:

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 1' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE 20TH DAY OF OCTOBER, 2021, AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY EXISTED AS INDICATED HEREON. VERTICAL DATUM IS BASED ON NAVD88.

*Richard A. Thompson Jr.*  
RICHARD A. THOMPSON, JR., P.S. #7388



REV. No.		DATE	BY		DATE: 10/20/22, DRAWN: JNG
					SCALE: HOR. 1"=20' VERT. N/A
					FOLDER: DWG/Proj. Engineering
					FILENAME: Site Plan
					TAB: 01-Ex. Cond. & Demo
					BN DY. CHK: RAT-11/10/21
					BASE. CHK: XXX-xx/xx/20xx



**CLEVELAND PIZZA CO.**  
**31222 VINE STREET**  
CITY OF WILLOWICK - LAKE COUNTY - OHIO

POLARIS ENGINEERING & SURVEYING, INC.  
34600 GHARDON ROAD - SUITE D  
WILLOUGHBY HILLS, OHIO 44094  
(440) 944-4433 (440) 944-3722 (Fax)  
www.polaris-es.com

**polaris**  
Engineering & Surveying


**EXISTING CONDITIONS & DEMOLITION PLAN**

CONTRACT No.	
21183	
SHEET	OF
01	08



SYMBOL LEGEND	
	Ex. Clean Out
	Ex. Catch Basin
	Prop. Catch Basin
	Ex. Curb Inlet
	Prop. Curb Inlet
	Ex. Yard Drain
	Ex. Manhole
	Ex. Sanitary Manhole
	Prop. Sanitary Manhole
	Ex. Storm Manhole
	Prop. Storm Manhole
	Storm Inlet MH
	Ex. Water Valve
	Prop. WL Valve
	Water Meter
	Ex. Fire Hydrant
	Prop. Hydrant
	Well
	Gas Valve
	Gas Meter
	Mailbox
	Guy Wire
	Power Pole
	Light Power Pole
	Light Pole
	Traffic Signal Pole
	Traffic Signal Box
	Cable TV Box
	Electrical Box
	Telephone (SAC) Box
	Tree
	Pine Tree
	Bush
	Yard Light
	Gasline Marker
	Power Transformer
	SCB Sprinkler Control Box
	SH Sprinkler Head
	Sign
	Test Bore
	Guard Post

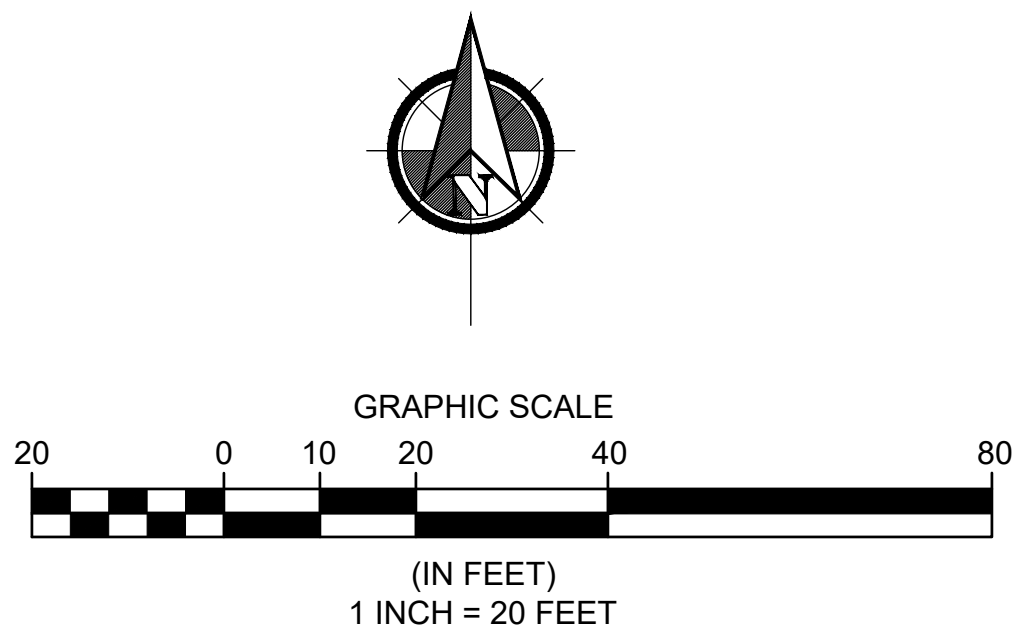
NOTE:  
ANYONE USING ELEVATIONS ASSOCIATED WITH  
THIS PLAN SHALL UTILIZE & CHECK INTO BOTH  
BENCHMARKS FOR VERTICAL CONTROL. POLARIS  
SHALL BE NOTIFIED IMMEDIATELY OF ANY  
IRREGULARITIES.



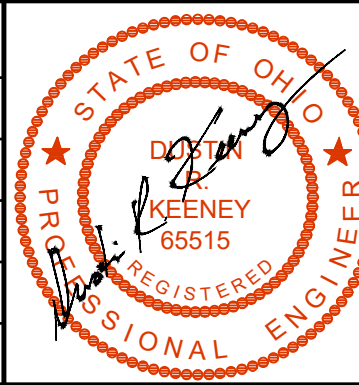
O.U.P.S. REFERENCE  
A-125-700-937  
2 WORKING DAYS BEFORE YOU DIG CALL 8-1-1  
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS  
MUST BE CALLED DIRECT

EXISTING UNDERGROUND UTILITIES NOTE:  
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL OF THE  
UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY  
A SEARCH OF AVAILABLE RECORDS. THE EXACT LOCATION OF  
UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY,  
AND RELIABLY DEPICTED HEREON. VERIFICATION BY FIELD  
OBSERVATION HAS BEEN CONDUCTED. WHERE PRACTICAL  
HOWEVER, POLARIS ENGINEERING & SURVEYING, INC. DOES NOT  
GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

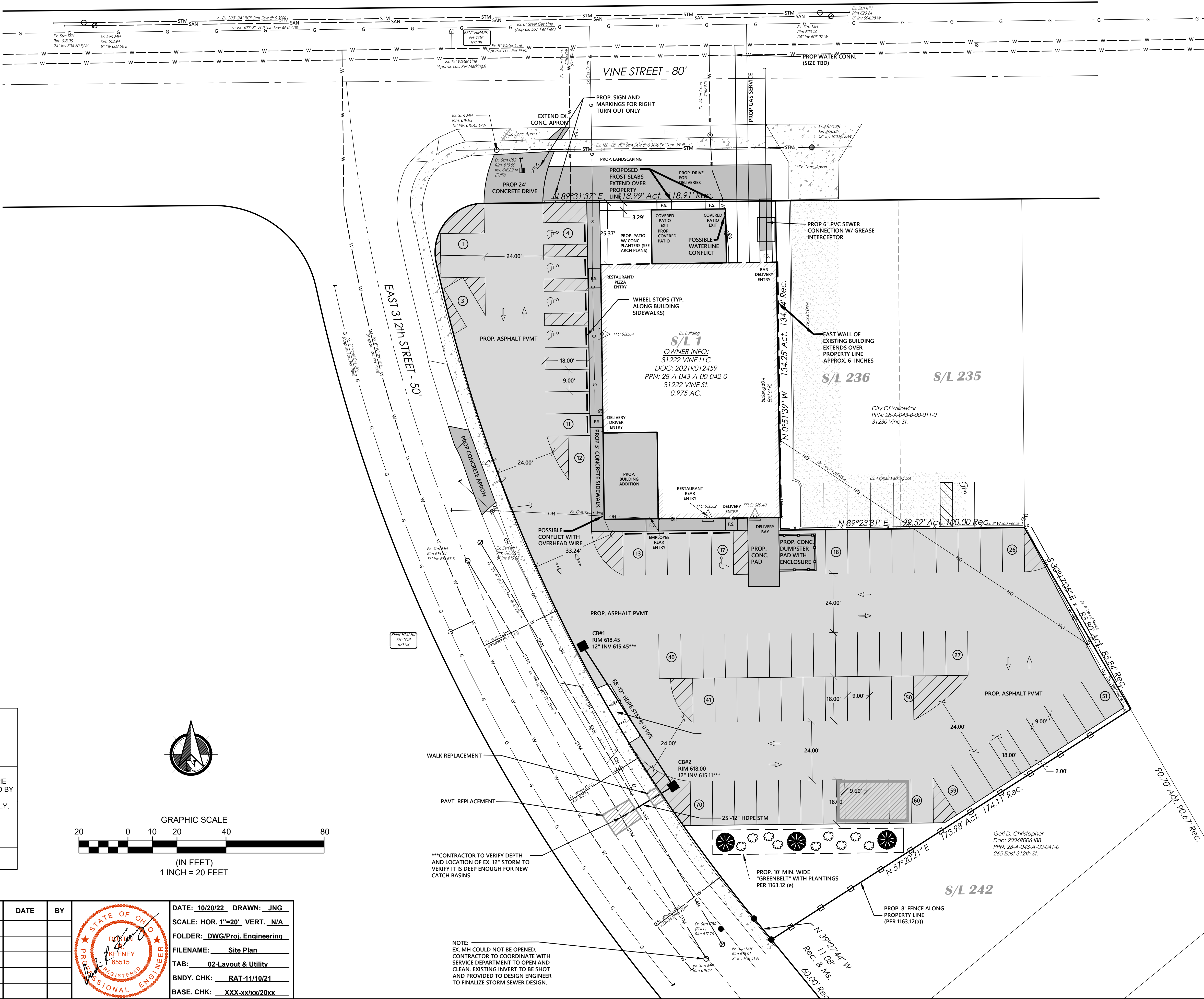
NOTE: THIS SURVEY SUBJECT TO CHANGE UPON RECEIPT OF ANY  
ADDITIONAL AVAILABLE UNDERGROUND UTILITY INFORMATION.



REV. No.		DATE	BY		DATE: 10/20/22, DRAWN: JNG SCALE: HOR. 1"=20' VERT. N/A FOLDER: DWG/Proj. Engineering FILENAME: Site Plan TAB: 02-Layout & Utility BNDY. CHK: RAT-11/10/21 BASE. CHK: XXX-xx/xx/20xx




NOTE:  
EX. MH COULD NOT BE OPENED.  
CONTRACTOR TO COORDINATE WITH  
SERVICE DEPARTMENT TO OPEN AND  
CLEAN. EXISTING INVERT TO BE SHOT  
AND PROVIDED TO DESIGN ENGINEER  
TO FINALIZE STORM SEWER DESIGN.



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www.polaris-es.com



LAYOUT & UTILITY PLAN

CONTRACT No.  
21183  
SHEET 02 OF 08



SYMBOL LEGEND	
⊙ Ex. Clean Out	— Guy Wire
▢ Ex. Catch Basin	— Power Pole
■ Prop. Catch Basin	— Light Power Pole
▤ Ex. Curb Inlet	— Light Pole
▥ Prop. Curb Inlet	— Traffic Signal Pole
○ Ex. Yard Drain	— Traffic Signal Box
○ Ex. Manhole	— Cable TV Box
○ Ex. Sanitary Manhole	— Electrical Box
● Prop. Sanitary Manhole	— Telephone (SAC) Box
○ Ex. Storm Manhole	— Tree
● Prop. Storm Manhole	— Pine Tree
○ Storm Inlet MH	— Bush
WV Ex. Water Valve	— Yard Light
⊗ Prop. WL Valve	— Gasline Marker
W Water Meter	— Power Transformer
○ Ex. Fire Hydrant	— SCB Sprinkler Control Box
▼ Prop. Hydrant	— SH Sprinkler Head
⊙ Well	— Sign
⊗ Gas Valve	— Test Bore
⊙ Gas Meter	— Guard Post
MB Mailbox	

NOTE:  
ANYONE USING ELEVATIONS ASSOCIATED WITH THIS PLAN SHALL UTILIZE & CHECK INTO BOTH BENCHMARKS FOR VERTICAL CONTROL. POLARIS SHALL BE NOTIFIED IMMEDIATELY OF ANY IRREGULARITIES.

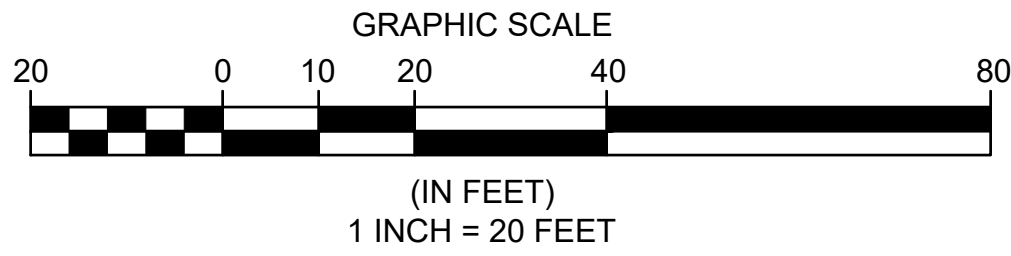
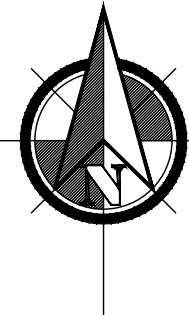


O.U.P.S. REFERENCE  
A-125-700-937

2 WORKING DAYS BEFORE YOU DIG CALL 8-1-1  
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS  
MUST BE CALLED DIRECT

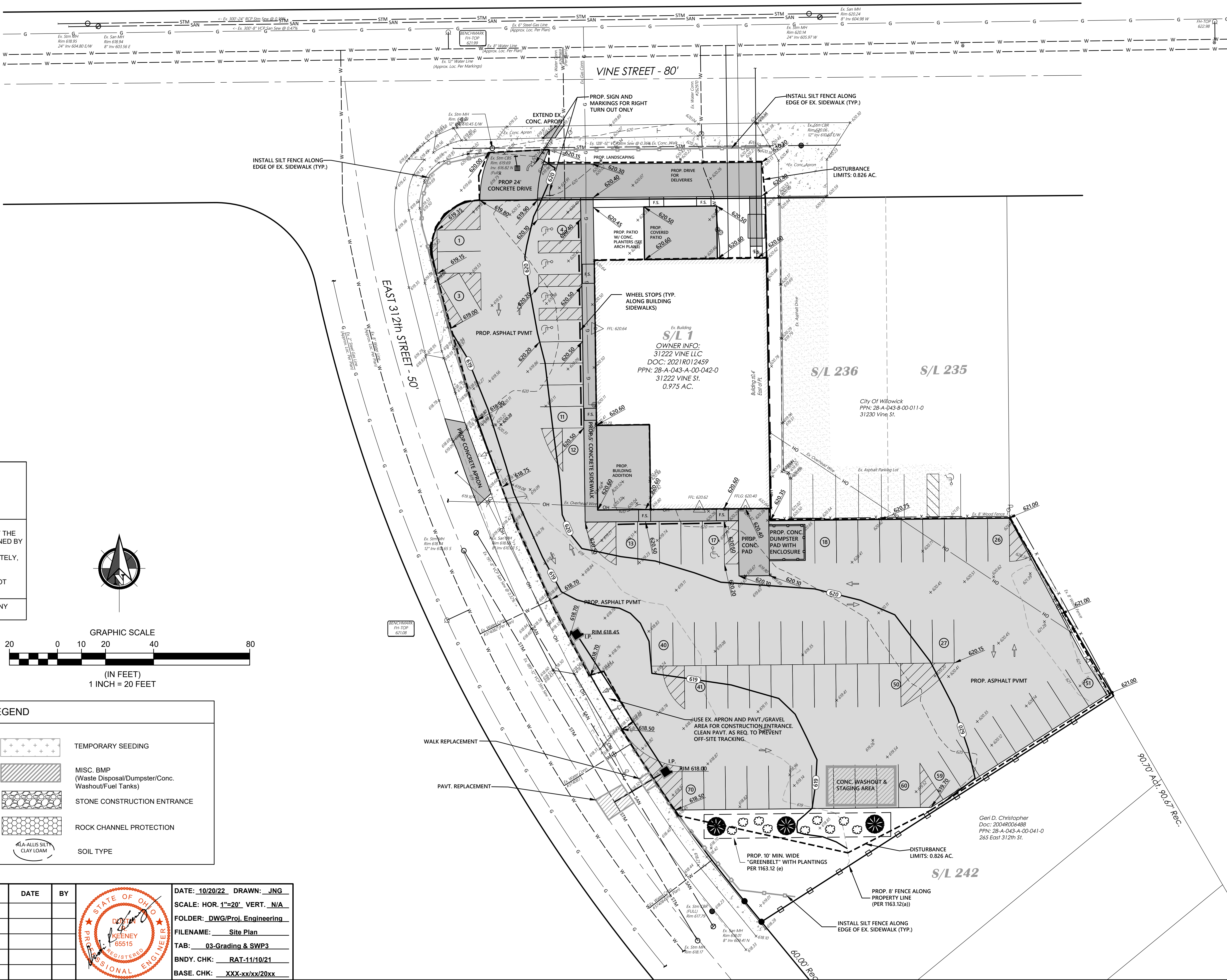
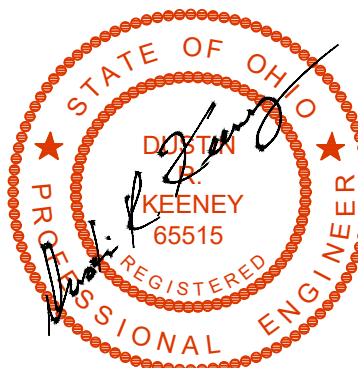
EXISTING UNDERGROUND UTILITIES NOTE:  
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED HEREON. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED, WHERE PRACTICAL. HOWEVER, POLARIS ENGINEERING & SURVEYING, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

NOTE: THIS SURVEY SUBJECT TO CHANGE UPON RECEIPT OF ANY ADDITIONAL AVAILABLE UNDERGROUND UTILITY INFORMATION.



SWP3 LEGEND	
□ I.P.	INLET PROTECTION
— 987 —	PROPOSED CONTOUR
- - - 987 - - -	EXISTING CONTOUR
▬▬▬▬▬	DISTURBANCE LIMITS
—□— SILT FENCE/SILT SOCK	
- - - SOIL DELINEATION LINE	
+++++	TEMPORARY SEEDING
▨	MISC. BMP (Waste Disposal/Dumpster/Conc. Washout/Fuel Tanks)
▨	STONE CONSTRUCTION ENTRANCE
▨	ROCK CHANNEL PROTECTION
⬇ (LA-ALLUS SILTY CLAY LOAM)	SOIL TYPE

REV. No.	DATE	BY	DATE: 10/20/22	DRAWN: JNG
			SCALE: HOR. 1"=20' VERT. N/A	
			FOLDER: DWG/Proj. Engineering	
			FILENAME: Site Plan	
			TAB: 03-Grading & SWP3	
			BN DY. CHK: RAT-11/10/21	
			BASE. CHK: XXX-xx/xx/20xx	



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www.polaris-es.com



GRADING & SWP3 PLAN

CONTRACT No.

21183

SHEET	OF
03	08



GENERAL  
A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO CONCORD TOWNSHIP, THE LAKE COUNTY ENGINEER AND STORMWATER MANAGEMENT DEPARTMENT, PAINESVILLE WATER, LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE LAKE COUNTY DEPARTMENT OF UTILITIES PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS, SHALL GOVERN THIS PROJECT.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF CONCORD TOWNSHIP. THE LAKE COUNTY ENGINEER AND STORMWATER MANAGEMENT DEPARTMENT, PAINESVILLE WATER, LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE LAKE COUNTY DEPARTMENT OF UTILITIES AND AT ALL TIMES BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

EARTHWORK OPERATIONS

THE DESIGNATED AREAS OF EXCAVATION AND FILL SHALL BE CLEARED AND STRIPPED BY THE CONTRACTOR PRIOR TO THE START OF ANY EARTHWORK OPERATIONS.

CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE ENTIRE SITE AND EASEMENT AREAS. CLEARING AND GRUBBING SHALL ALSO INCLUDE STUMP REMOVAL.

ALL STUMPS, TREES AND OTHER CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AND THE COST THEREOF INCLUDED IN ITEMS CONTAINED IN THE BID.

THE CONTRACTOR SHALL STRIP ALL TOPSOIL AS DIRECTED BY THE OWNER AND STOCKPILE THE TOPSOIL IN THE AREAS DESIGNATED BY THE OWNER FOR RESPREADING.

THE CONTRACTOR SHALL PLACE AND COMPACT ALL SUITABLE FILL MATERIAL EXCAVATED DURING HIS CONSTRUCTION OPERATIONS WITHIN THE FILL AREAS DESIGNATED ON THE IMPROVEMENT PLANS. THE FINAL GRADE OF THE EXCAVATED AND FILLED AREAS SHALL CORRESPOND TO THE PROPOSED GRADES SHOWN ON THE IMPROVEMENT PLANS.

ALL EMBANKMENT CONSTRUCTION SHALL CONFORM TO O.D.O.T. ITEM 203 SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A SOILS ENGINEER FOR ALL SOILS ANALYSIS AND TESTING REQUIRED. SANITARY SEWER

DUCTILE IRON PIPE SHALL CONFORM TO AWWA C150 AND C151. THICKNESS CL 52 MINIMUM (ASTM A746); FITTINGS SHALL CONFORM TO AWWA C153; JOINTS SHALL CONFORM TO AWWA C111 WITH RUBBER GASKETS.

VITRIFIED CLAY PIPE AND FITTINGS SHALL CONFORM TO ASTM C700 EXTRA STRENGTH WITH PREMIUM JOINTS MEETING THE REQUIREMENTS OF ASTM C425.

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE APPROVING AGENCIES AND THE CONSULTING ENGINEER.

ALL SANITARY AND LATERALS RUNNING UNDERNEATH PAVEMENT SHALL BE BACK FILLED WITH GRANULAR MATERIAL AS PER TRENCH AND BEDDING DETAIL.

SLAG SHALL NOT BE USED FOR BEDDING, BACK FILL OR ANY OTHER PROPOSED WORK ON THIS PROJECT.

THE CONTRACTOR SHALL INCLUDE COST OF GRANULAR BACK FILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN PRICE BID PER LINEAR FOOT OF PIPE INCLUDING COMPACTION TESTS UNDER ALL EXISTING AND PROPOSED PAVEMENTS.

ALL SEWERS, SERVICE LATERALS, UTILITY CONDUITS AND DUCTS INSTALLED UNDERNEATH EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED WITH NO. 10 LIMESTONE AND COMPACTED WITH A VIBRATORY PLATE COMPACTOR IN 6" LIFTS. THE MINIMUM COMPACTION REQUIREMENT SHALL CONFORM TO ODOT ITEM 203. COMPACTION TESTS MAY BE REQUIRED BY THE LAKE COUNTY ENGINEER. COMPACTION TESTS SHALL BE PERFORMED BY A CONSULTANT APPROVED BY TH LAKE COUNTY ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING AND ALL PERMITS REQUIRED FOR THIS PROJECT.

WATERLINE - ALL WATERLINE MATERIAL AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH PAINESVILLE WATER SPECIFICATIONS. (SEE WATERLINE NOTES & DETAILS PLAN SHEET)

STORM SEWER  
10" AND UNDER SHALL BE PVC SDR 35, ADS N-12 OR APPROVED EQUAL.  
12" TO 15" TO BE RCP C-76 CL IV OR HDPE (ALTERNATE)  
18" AND OVER TO BE RCP C-76 CL III OR HDPE (ALTERNATE)  
\*ALTERNATE HDPE PIPE SPECIFICATIONS: HANCOR HI-Q POLYETHYLENE PIPE OR ADS N-12 POLYETHYLENE PIPE, OR EQUAL PER ASTM D3330.

THE CONTRACTOR SHALL TEST ALL STORM SEWER PIPE PER ODOT SUPPLEMENTAL SPECIFICATIONS #42 AND #44 FOR DEFLECTION WITH A NINE (9) ARM MANDEREL. MAXIMUM ALLOWABLE DEFLECTION SHALL BE 7.5% OF ITS BASE INSIDE DIAMETER WHEN MEASURED NOT LESS THAN 30 DAYS AFTER COMPLETION OF INSTALLATION.

SANITARY SEE LAKE COUNTY UTILITY DEPARTMENT NOTES

FILTER FABRIC ALL FABRIC FOR EROSION CONTROL TO BE WOVEN MATERIAL.

THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAL FOOT OF PIPE.

SEE TRENCH AND BEDDING DETAILS FOR BEDDING AND BACKFILL SPECIFICATIONS FOR ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND LATERAL CONSTRUCTION.

TRAFFIC CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNING, TRAFFIC MAINTENANCE AND TRAFFIC CONTROL AS DIRECTED BY CONCORD TOWNSHIP. ALL WORK, SIGN LAYOUTS, AND MATERIALS USED SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

EROSION AND SEDIMENT CONTROL PROCEDURES

SEE EROSION CONTROL LOCATIONS ITEMS LOCATED ON THE GRADING AND SWPP PLANS, SWPP NOTES AND EROSION DETAILS PAGES OF THE PLANS.

ADDITIONAL UTILITY NOTES:

1. ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.
2. ALL SANITARY SEWER CONNECTIONS SHALL HAVE A MINIMUM GRADE OF 1%.

EPA UTILITY NOTES:

1. TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN WATER LINE AND SANITARY SEWER.
2. AN 18" MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWERS AT ALL CROSSINGS.
3. TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
4. A 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS.
5. THE PROPOSED WATERLINE IMPROVEMENTS WILL PROVIDE A MINIMUM 35 PSI PRESSURE AT THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
6. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
7. 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.

UTILITIES

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATIONS OF SURFACE AND SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN COMPLIANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND AS OUTLINED IN PROJECT SPECIFICATIONS.

THE UTILITY OWNERSHIP'S ARE AS FOLLOWS:

OHIO UTILITIES PROTECTION SERVICE  
4740 BELMONT  
YOUNGSTOWN, OHIO 44505  
PH: (800) 362-2764

THE ILLUMINATING COMPANY  
7757 AUBURN ROAD, BLDG. 4  
CONCORD, OHIO 44077  
PH: (440) 350-7741 (RALPH DELIGATTI)

SBC/AT&T  
13630 LORAIN AVE.  
CLEVELAND, OHIO 44111  
PH: (216) 476-6181 (MAUREEN ROCHE)

ADE/PHA  
7757 AUBURN ROAD, BLDG. 8  
PAINESVILLE, OHIO 44077  
PH: (440) 354-0030 (CHUCK SULLIVAN)

ORWELL NATURAL GAS COMPANY  
8500 STATION ST. SUITE 100  
MENTOR, OH 44060  
PH: (440) 974-5120 (JERRY LIVENGOOD)

CITY OF PAINESVILLE WATER DEPARTMENT  
459 STORMS STREET  
PAINESVILLE, OHIO 44077  
PHONE: (440) 392-2975

DOMINION EAST OHIO  
1201 EAST 55TH STREET  
CLEVELAND, OHIO 44103  
PH: (216) 736-6788 (JOE HINTON)

LAKE COUNTY ENGINEER/STORMWATER  
550 BLACKBROOK ROAD  
PAINESVILLE, OHIO 44077  
PH: (440) 350-2770 (GEORGE HADDEN)

LAKE COUNTY DEPT. OF UTILITIES  
105 MAIN STREET  
PAINESVILLE, OHIO 44077  
PH: (440) 350-2652 (RANDY ROTHUSBERGER)

LAKE COUNTY SWCD  
125 E. ERIE ST.  
PAINESVILLE, OH 44077  
PH: (440) 350-2730 (DAN DONALDSON)

LAKE COUNTY STORMWATER  
ANAGEMENT DEPARTMENT (LCSWMD)  
125 E. ERIE ST.  
PAINESVILLE, OH 44077  
PH: (440) 350-5900 (TIM MILLER)

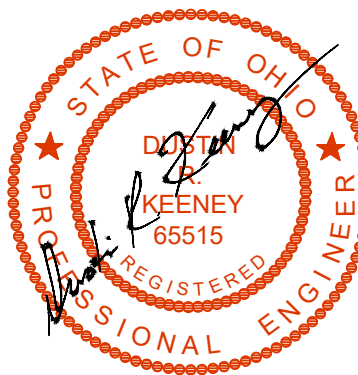
CONCORD TOWNSHIP SERVICE DEPARTMENT  
7229 RAVENNA ROAD  
CONCORD, OHIO 44077  
PH: (440) 350-3226 (FRANK KRASKA)

OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 12  
5500 TRANSPORTATION BLVD.  
GARFIELD HEIGHTS, OH 44125  
PH: (216) 581-2100 (WILLIAM GERBER)  
FX: (216) 584-2274

LAKE COUNTY DEPARTMENT OF UTILITIES GENERAL SANITARY NOTES VR. 21

1. ALL SANITARY SEWER WORK COMPLETED MUST BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND RULES OF THE LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU).
2. ONLY WATER/SEWER CONTRACTORS LICENSED BY THE LAKE COUNTY BOARD OF COMMISSIONERS MAY INSTALL SANITARY SEWERS.
3. CONSTRUCTION PLAN APPROVAL BY THE LCDU SHALL EXPIRE IF SANITARY SEWER CONSTRUCTION HAS NOT BEEN INITIATED BY A DEVELOPER WITHIN (12) MONTHS OF THE EFFECTIVE APPROVAL DATE AS SHOWN ON THE BLUEPRINT COPY ORIGINALLY SUBMITTED FOR APPROVAL (THIS IS NOT TO BE CONSTRUED AS THE DATE SHOWN ON THE ORIGINAL MYLAR TITLE SHEET).
4. ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.
5. ALL SANITARY SEWER MUST HAVE PREMIUM JOINTS, AND THE ENTIRE SYSTEM MUST PASS AN INFILTRATION TEST AND EXFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION AND EXFILTRATION SHALL BE 100 GALLONS PER INCH DIAMETER OF THE SEWER PER MILE PER DAY.
6. THE CONTRACTOR SHALL SCHEDULE INSPECTION AT LEAST 48 HOURS IN ADVANCE WITH LCDU.
7. NO SANITARY SEWER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY THE LCDU WHICH SHALL INCLUDE APPROVED RECTIFICATION OF ALL PUNCH LIST ITEMS AND THE SUBMITTAL OF MYLAR AS-BUILT DRAWINGS.
8. ROOF DRAINS, FOUNDATIONS DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
9. ALL SANITARY SEWER CONSTRUCTION AREAS MUST BE TO SUBGRADE PRIOR TO CONSTRUCTION AND CERTIFIED IN WRITING BY AN OHIO PROFESSIONAL SURVEYOR.
10. SHOP DRAWINGS ON ALL MATERIALS SHALL BE SUBMITTED TO THE LCDU FOR APPROVAL PRIOR TO INSTALLATION.
11. INSPECTION SERVICES SHALL BE PERFORMED BY THE LCDU. THE COST OF INSPECTION SHALL BE INCLUDED AS A PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS. (SEE SECTION 7 FEE SCHEDULE OF LCDU RULES AND REGULATIONS) COST FOR INSPECTION SHALL BE THE SOLE RESPONSIBILITY OF THE LAKE COUNTY LICENSED WATER/SEWER CONTRACTOR.
12. HYDROSTATIC TESTING SHALL BE PERFORMED FOR ALL MANHOLES UNDER THE SUPERVISION OF LCDU INSPECTION.
13. FINAL TELEVIEWING OF A SANITARY SEWER SHALL BE PERFORMED BY A PACP CERTIFIED CREW IN ASSOCIATION OF SEWER SERVICE COMPANIES AND AS APPROVED BY THE LCDU. THE TELEVISION INSPECTION SHALL BE RECORDED TO A DVD IN MPEG FORMAT AS DIRECTED BY LCDU. THE LCDU SHALL RECEIVE VIDEO RECORDING OF ALL TELEVISION INSPECTION.
14. ALL PROPOSED SANITARY SEWERS SHALL BE LAID OUT BY A REGISTERED SURVEYOR WITH GRADE STAKES AT A MINIMUM OF EVERY 50' AND AT ALL FITTINGS AND A CUTE SHEET PROVIDED PRIOR TO CONSTRUCTION.
15. THE CONTRACTOR/DEVELOPER SHALL SUBMIT A THREE YEAR MAINTENANCE BOND TO THE COMMISSIONERS BY THE DEVELOPER IN THE AMOUNT OF TEN PERCENT OF THE FINAL CONSTRUCTION COSTS AS VERIFIED BY THE DEVELOPERS ENGINEER, FOR PUBLIC EXTENSION PROJECTS.

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GENERAL NOTES

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GENERAL REQUIREMENTS: THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT DRIVE APRONS, SIDEWALKS AND CURB RAMPS. ALL PAVEMENT DRIVES, SIDEWALKS AND/OR CURB RAMPS SHALL CONFORM TO ODOT SPECIFICATIONS IF NOT SPECIFIED HEREIN. ALL PAVEMENT DRIVES, SIDEWALKS AND CURB RAMP REPLACEMENTS SHALL CONFORM TO THE GRADE OF THE EXISTING PAVEMENT DRIVE, SIDEWALK AND/OR CURB RAMP.

SIGNAGE: THE CONTRACTOR MUST PROVIDE ADEQUATE SIGNS, MARKERS AND BARRICADES TO PROTECT PEDESTRIAN TRAFFIC, VEHICULAR TRAFFIC AND CONSTRUCTION PERSONNEL DURING THE PROGRESS OF THIS WORK. ADDITIONAL SIGNS INDICATING ENTRANCES FOR BUSINESSES IN A CONSTRUCTION ZONE ARE REQUIRED AS DIRECTED BY THE GOVERNING AGENCY'S ENGINEER.

CURB RAMPS: CURB RAMPS SHALL BE PLACED AS SHOWN ON THE PLANS. ALL SIDEWALKS SHALL CONNECT TO THE PAVEMENT OR CURB AT INTERSECTIONS WITH WHEELCHAIR RAMPS AND ONE-HALF (1/2) INCH EXPANSION JOINTS BETWEEN THE WALK AND CURB. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF-LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CURB RAMPS SHALL MEET THE CURRENT ADA REQUIREMENTS WITH TRUNCATED DOMES.

PAVEMENT MARKING LEGEND

PAVEMENT MARKING SHALL MEET THE REQUIREMENTS OF ODOT ITEM 640  
"PAVEMENT MARKING". PAINT SHALL MEET REQUIREMENTS OF ODOT ITEM 642  
"TRAFFIC PAINT".

ALL SIGN SHEETING SHALL BE TYPE G REFLECTIVE SHEETING

ALL SIGNS SHALL BE MOUNTED AT A 7' HEIGHT TO BOTTOM OF SIGN.

PAVEMENT PLAN AND SITE LAYOUT NOTES

RESTRIPE ALL PARKING SPACES ON PROPERTY WHERE PAVEMENT REMAINED.  
EXISTING PAVEMENT MARKINGS ADJACENT TO SITE TO REMAIN.

CURB TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING CURB DURING CONSTRUCTION. PAVEMENT SHALL REMAIN IN ANY AREA NOT DESIGNED ON THIS PLAN. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING PAVEMENT DURING CONSTRUCTION.

ALL DIMENSIONS TO THE BACK OF CURB UNLESS OTHERWISE STATED.

ALL PAVEMENT AND SITE WORK SHALL CONFORM TO O.D.O.T. AND CITY OR COUNTY SPECIFICATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION.

REFER TO THE ARCHITECTURAL PLANS FOR LANDSCAPING, DUMPSTER PAD DETAIL  
AND DOOR STOOP DETAIL.

FOR PRECISE BUILDING DIMENSIONS SEE ARCHITECTURAL PLANS.

THE CONTRACTOR SHALL PROVIDE JOINTS IN CONCRETE PAVEMENT INCLUDING CONSTRUCTION JOINTS, ISOLATION JOINTS, EXPANSION JOINTS AND CONTRACTION JOINTS AS REQUIRED. THE CONTRACTOR SHALL SUBMIT A PROPOSED JOINTING PLAN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION.

*SIGNAGE: SEE ARCHITECTURAL PLANS FOR SIGNING REQUIREMENTS.*

*SITE LIGHTING: SEE ARCHITECTURAL PLANS FOR LIGHTING REQUIREMENTS.*

THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT IMPROVEMENTS.

ALL ASPHALT PAVING MUST MEET ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THEIR BEST PRACTICES.

SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING, AND/OR STORM INLET STRUCTURES, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.

ALL DEMOLITION AND COMPACTION WORK SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF SUBSURFACE EXPLORATION REPORT AS PRESENTED BY THE GEOTECHNICAL ENGINEER.

THE FOLLOWING EARTHWORK NOTES ARE TO BE USED AS GENERAL GUIDELINES IF A GEOTECHNICAL REPORT IS NOT AVAILABLE.

STRIP TOPSOIL AND REMOVE PAVEMENTS AT LEAST FIVE (5) FEET BEYOND THE BUILDING FOOTPRINT AND TWO (2) FEET BEYOND THE PROPOSED PAVEMENT AREAS.

UNDERCUT ALL OLD FILL AND PROOF ROLL THE EXPOSED SUBGRADE IN ACCORDANCE WITH THE SUBSURFACE EXPLORATION REPORT.

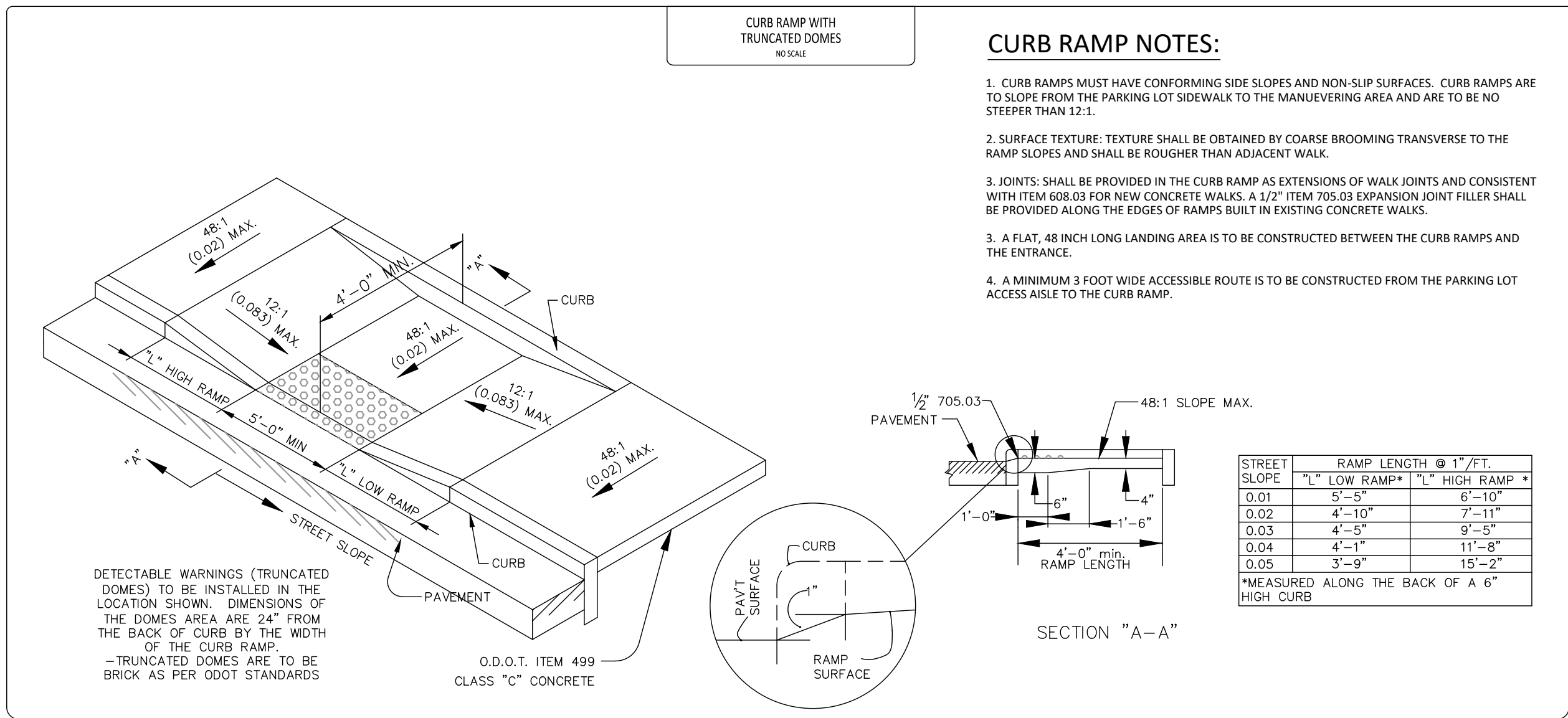
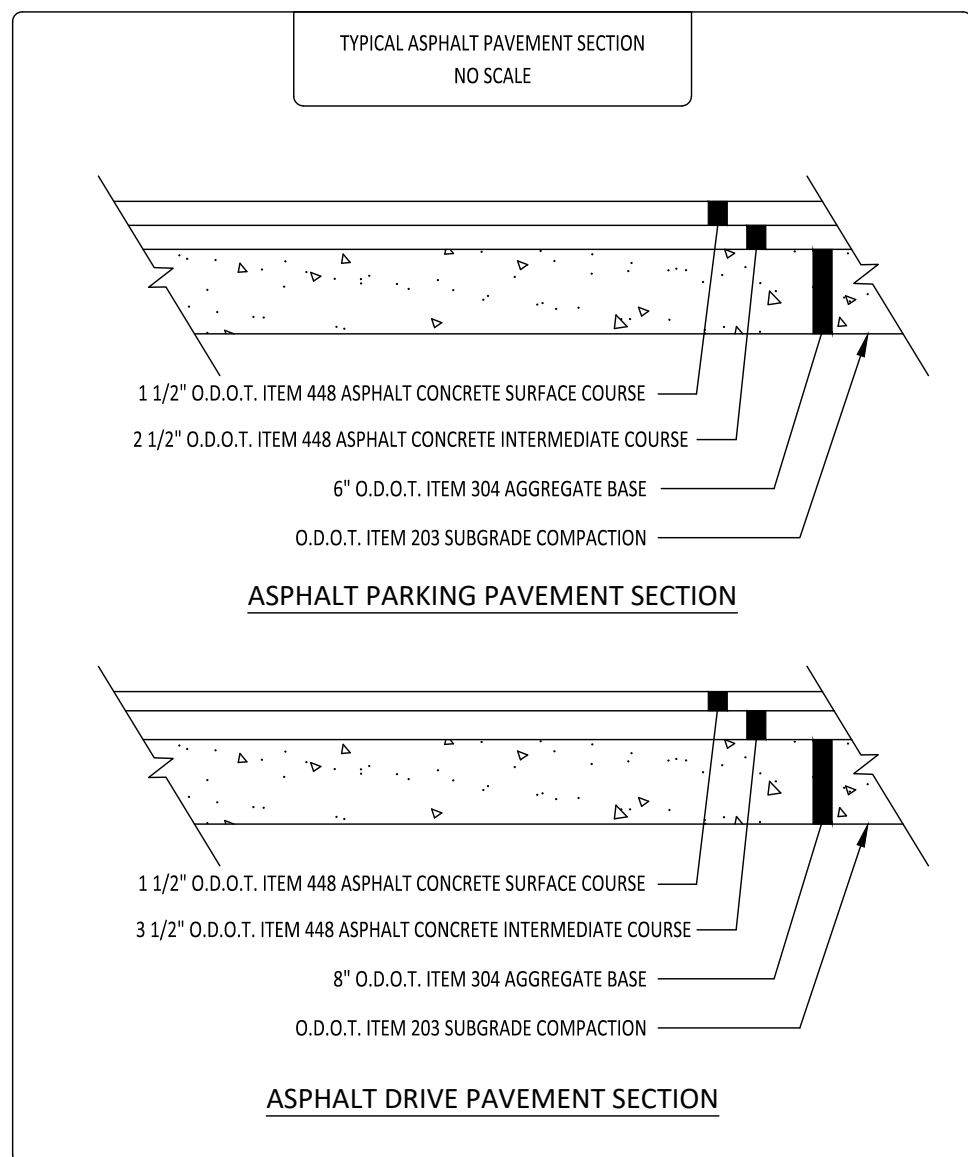
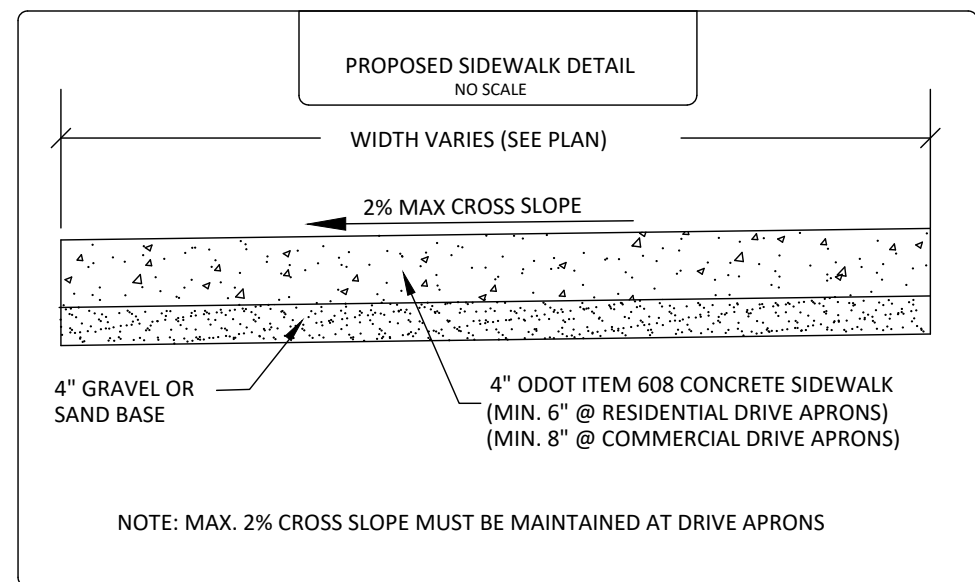
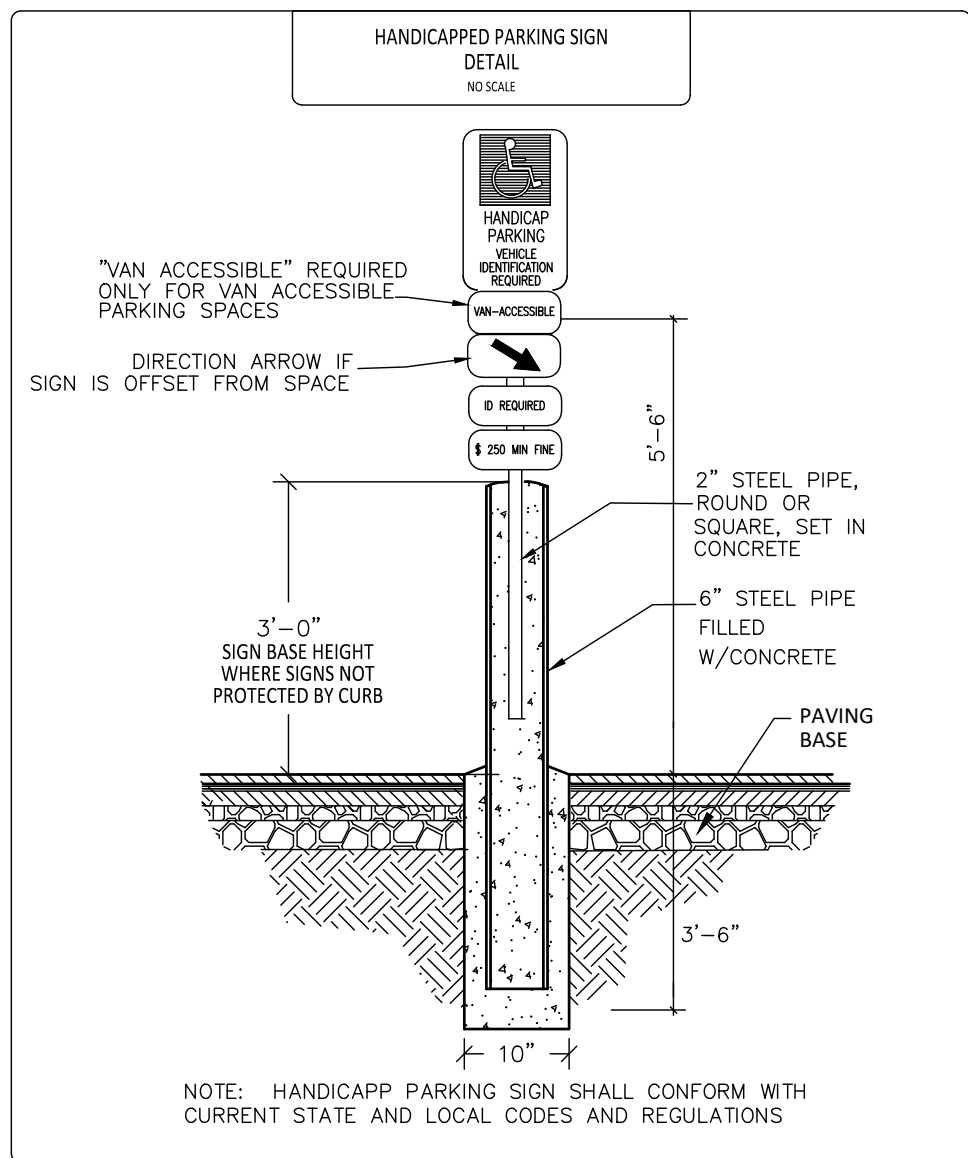
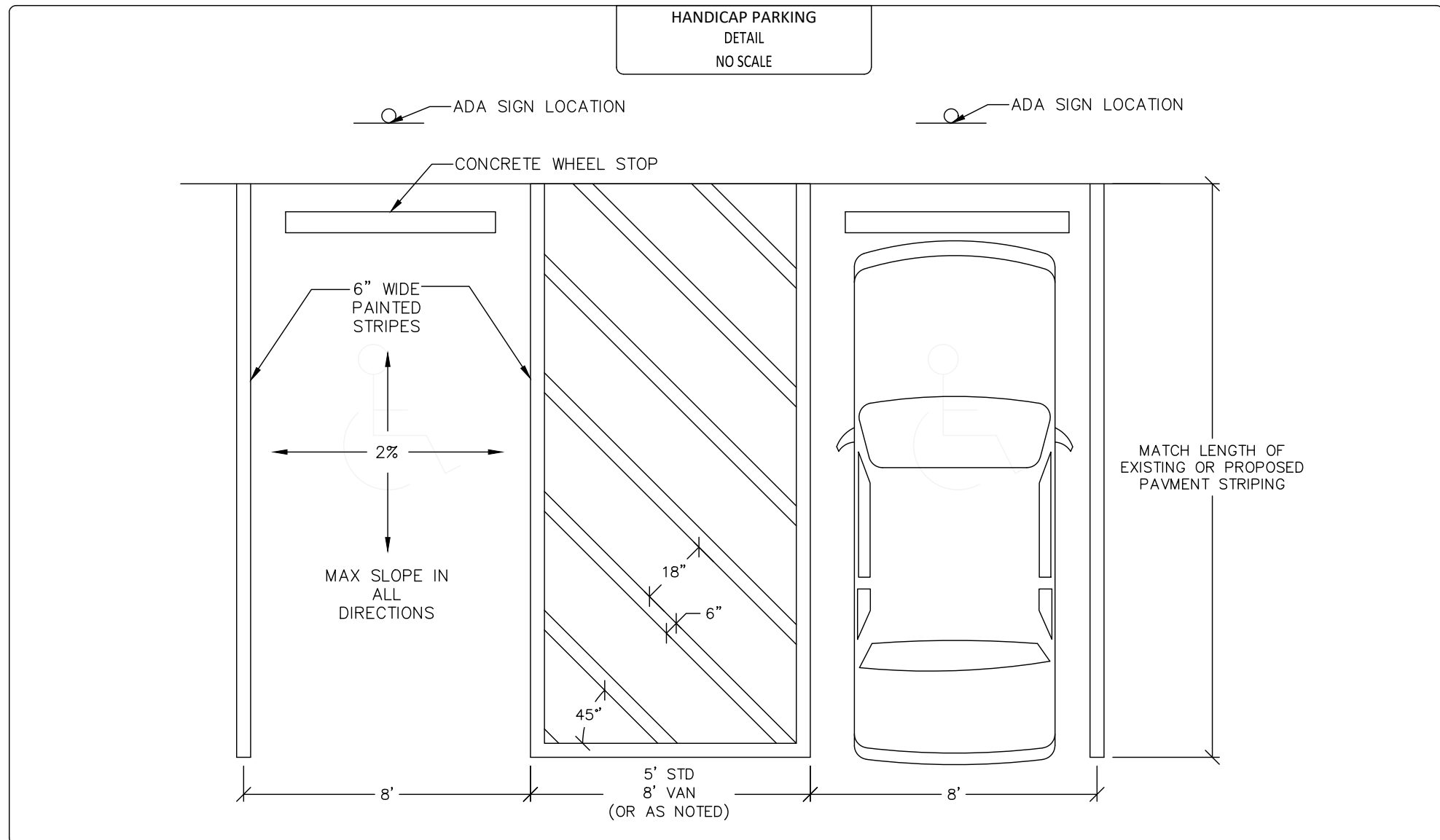
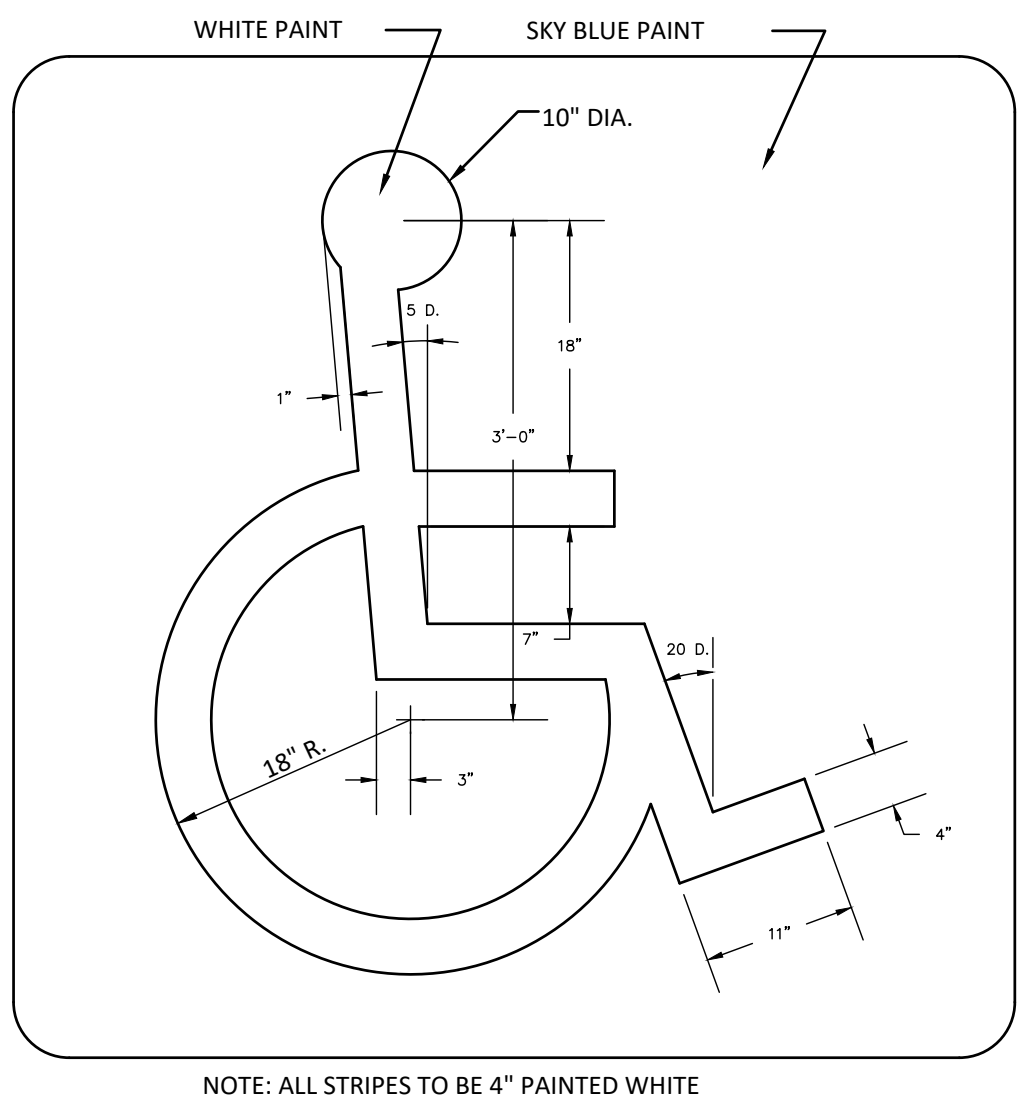
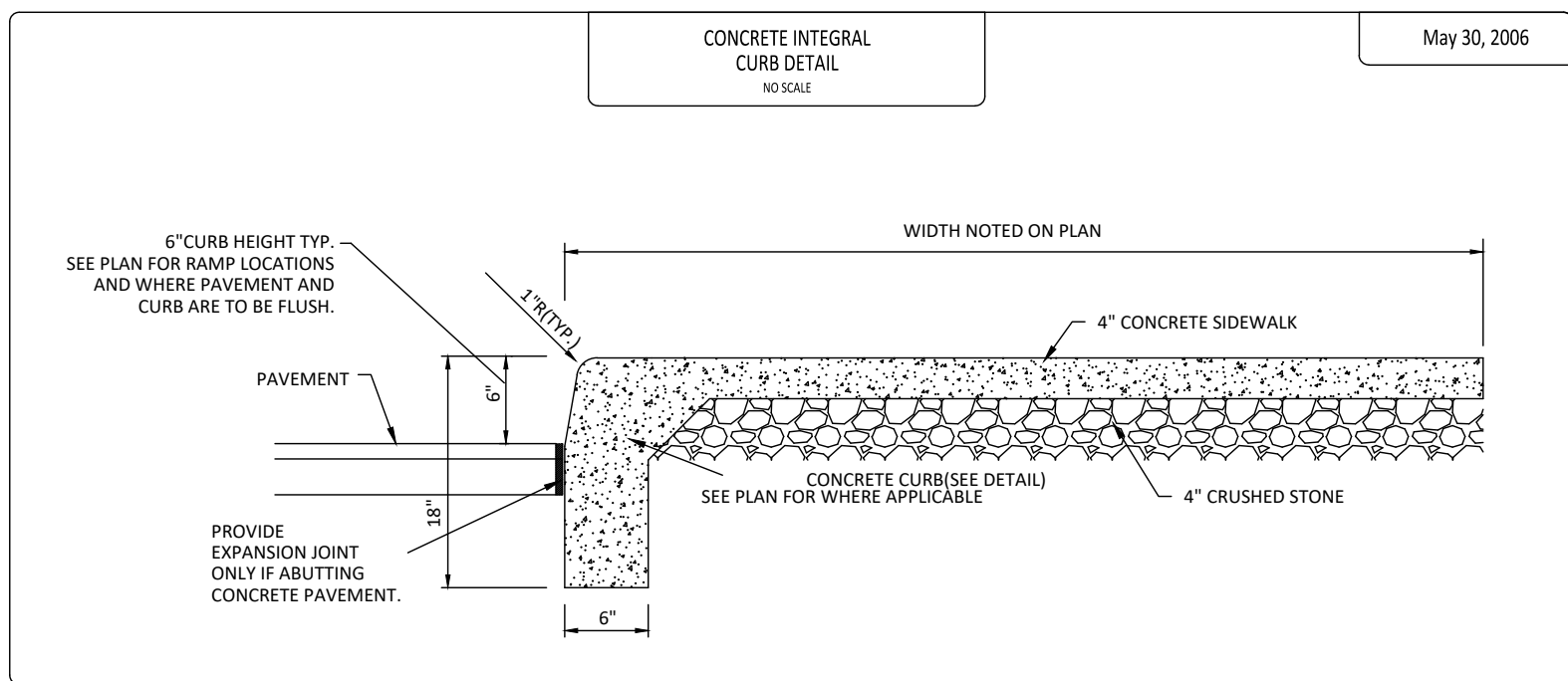
ENGINEERED FILL MATERIALS SHOULD CONSIST OF NON-EXPANSIVE MATERIALS, PYRITIC AND/OR POTENTIALLY EXPANSIVE MATERIALS, SUCH AS MINE TAILINGS AND SLAG SHOULD NOT BE USED AS ENGINEERED FILL MATERIAL. MATERIALS SELECTED FOR USE AS ENGINEERED FILL SHOULD CONTAIN LESS THAN 3 PERCENT BY WEIGHT OF ORGANIC MATTER, WASTER CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS. FILL MATERIALS SHOULD GENERALLY HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY GREATER THAN 110 POUNDS PER CUBIC FOOT (PCF), AN ATTERBERG LIQUID LIMIT LESS THAN 40, A PLASTICITY INDEX OF LESS THAN 15, AND A MAXIMUM PARTICLE SIZE OF 2 INCHES OR LESS.


PLACE AND COMPACT ENGINEERED FILL TO THE FOOTING BEARING ELEVATION IN SIX (6) INCH MAXIMUM LIFTS. EACH LIFT SHOULD BE COMPACTED TO AT LEAST NINETY-EIGHT (98%) PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY WITH THE MOISTURE CONTENT OF THE ENGINEERED FILL BEING WITHIN TWO (2%)± PERCENT OF THE OPTIMUM MOISTURE CONTENT (ASTM D698). THIS WORK SHOULD BE COMPLETED AT ONE TIME AND IN A UNIFORM MANNER OVER THE ENTIRE BUILDING PAD TO THE HIGHEST FOUNDATION BEARING ELEVATION.

ENGINEERED FILL REQUIRED IN PAVEMENT AREAS SHOULD BE PLACED IN SIX (6) INCH MAXIMUM LIFTS WITH EACH LIFT COMPACTED TO AT LEAST NINETY-FIVE (95%) PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY WITH THE MOISTURE CONTENT OF THE ENGINEERED FILL BEING WITHIN TWO (2%)± PERCENT OF THE OPTIMUM MOISTURE CONTENT (ASTM D698).

REPRESENTATIVE SAMPLES OF THE PROPOSED FILL MATERIALS SHOULD BE COLLECTED AT LEAST ONE WEEK PRIOR TO THE START OF THE FILLING OPERATIONS. THE SAMPLES SHOULD BE TESTED TO DETERMINE THE MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, PARTICLE SIZE DISTRIBUTION AND PLASTICITY CHARACTERISTICS. THESE TESTS ARE NEEDED TO DETERMINE IF THE MATERIAL IS ACCEPTABLE AS STRUCTURAL FILL AND QUALITY CONTROL DURING THE COMPACTION PROCESS.

CONTROL POINTS SHOULD BE ESTABLISHED WITHIN THE ANTICIPATED FILL AREAS ( MORE THAN 4 FEET) TO MONITOR, DURING AND SUBSEQUENT TO THE COMPLETION OF THE FILL OPERATIONS, ANY AND ALL SETTLEMENTS OF THE FINAL GRADE RESULTING FROM CONSOLIDATION OF THE AREA'S SUBSURFACE MATERIALS UNDER THE WEIGHT OF THE ENGINEERED FILL, AND FROM THE ENGINEERED FILL UNDER THEIR OWN WEIGHT. SETTLEMENT-TIME DATA, THUS DEVELOPED, SHOULD BE EMPLOYED TO ESTABLISH THE TIME OF PLACEMENT OF THE BUILDING STRUCTURE AND PAVEMENT AREAS.



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					FOLDER: <u>DWG/Proj. Engineering</u>
					FILENAME: <u>Site Plan</u>
					TAB: <u>07-Pavement Notes &amp; Details</u>
					BNDY. CHK: <u>RAT-11/10/21</u>
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## PAVEMENT NOTES & DETAILS

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**21183**

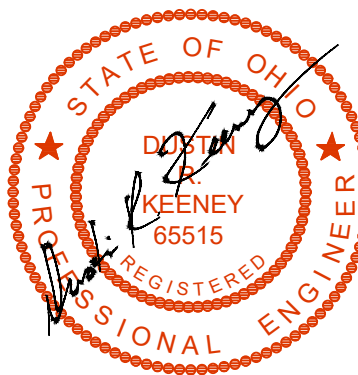
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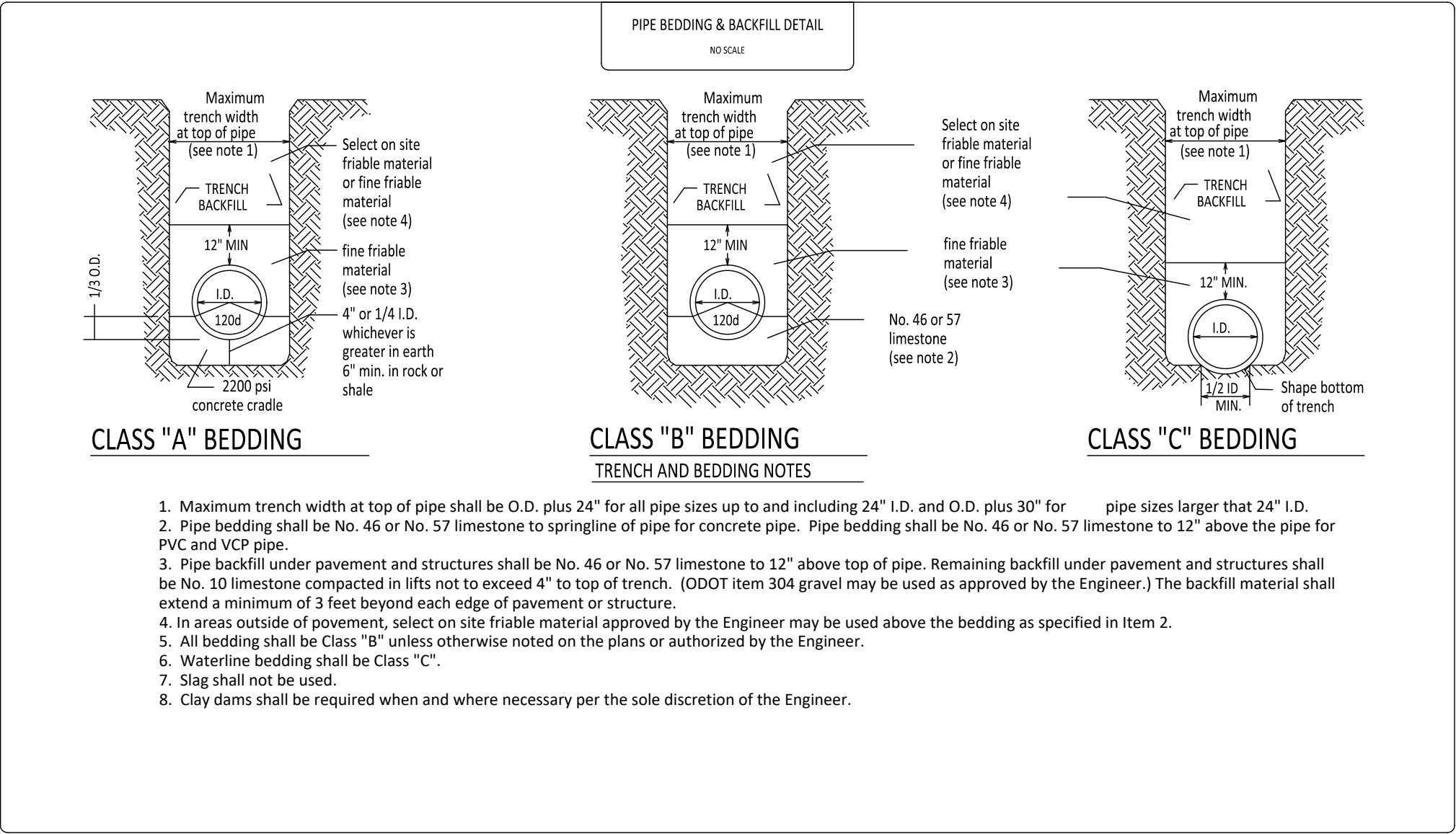
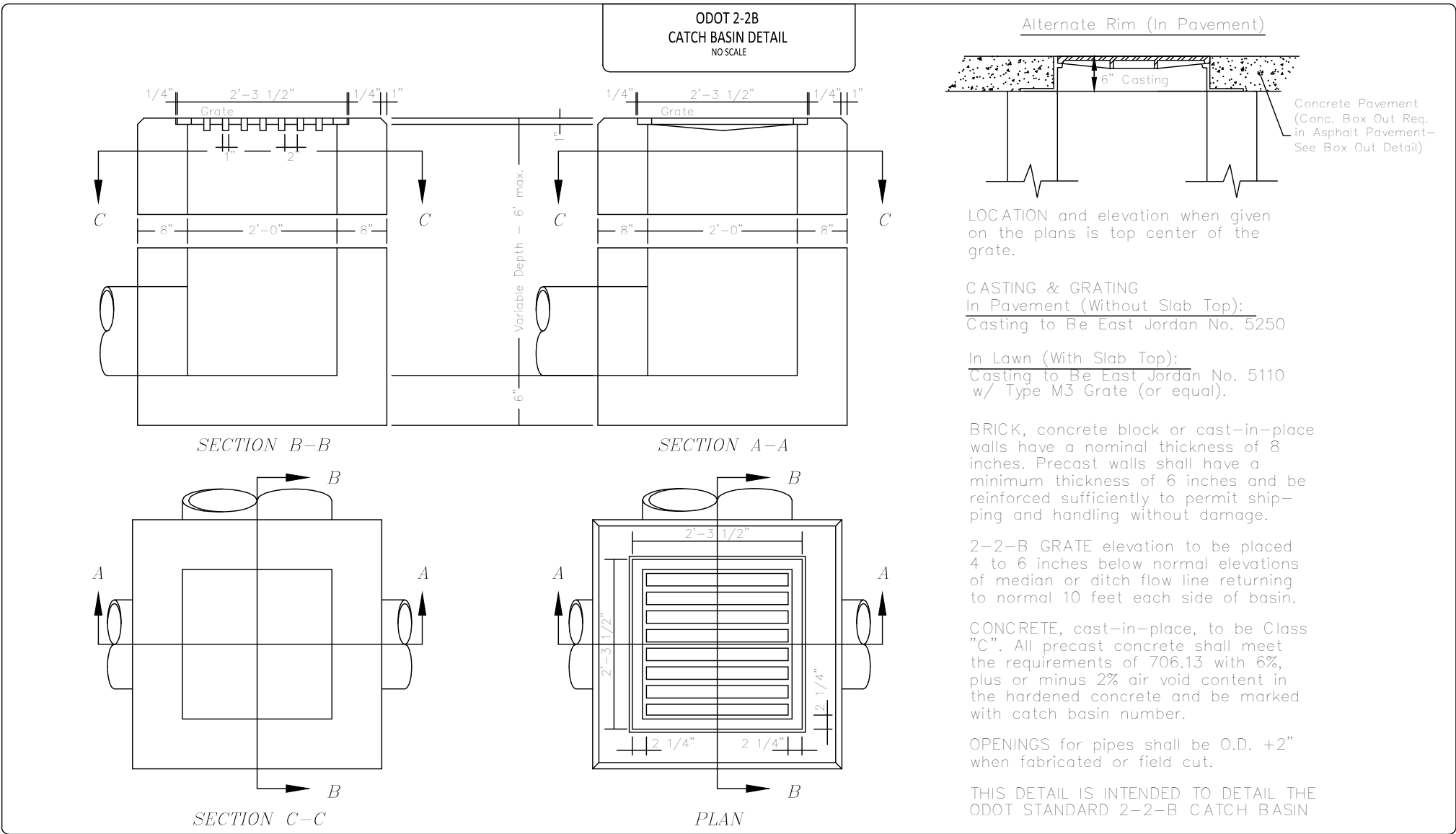
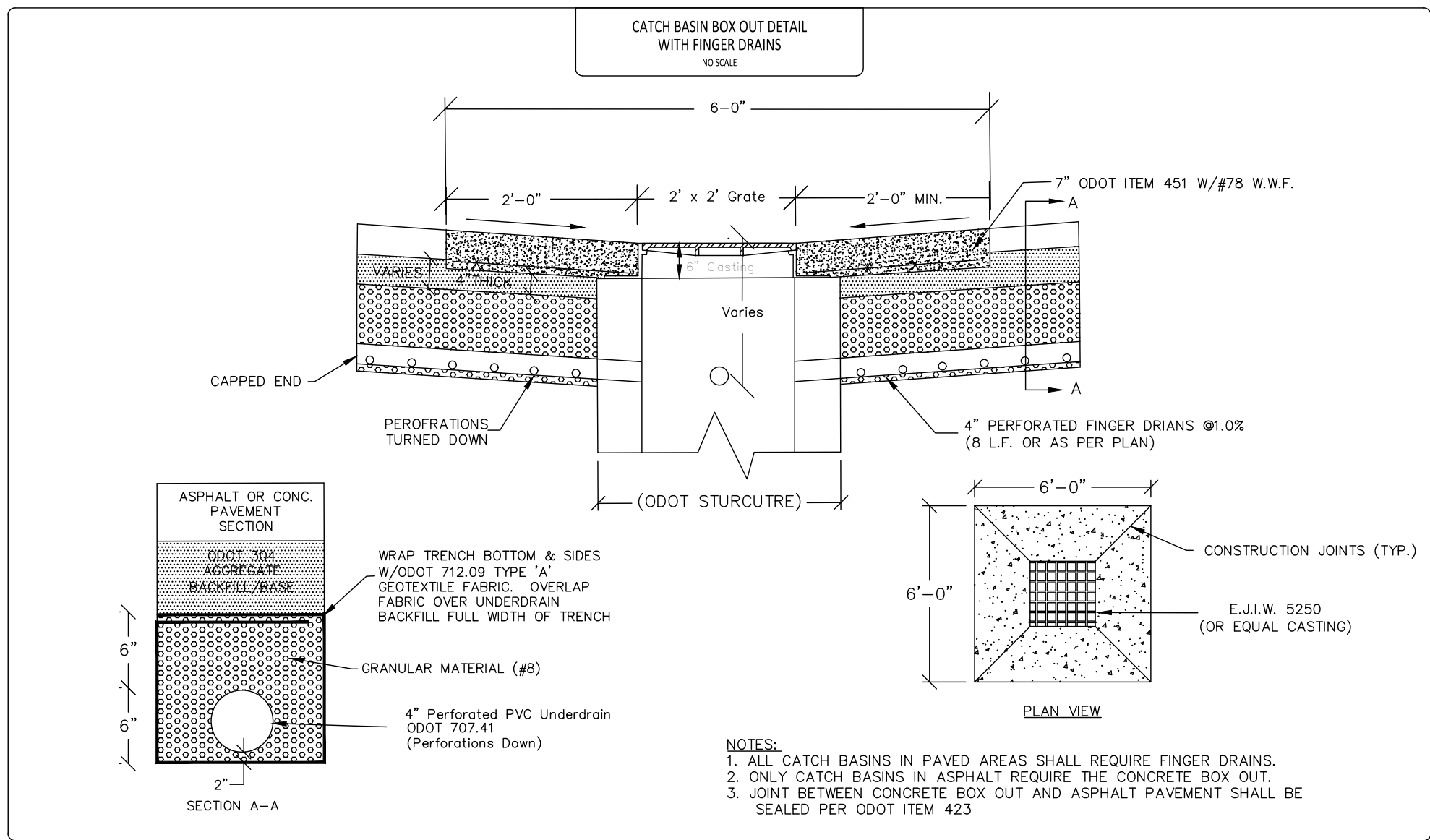
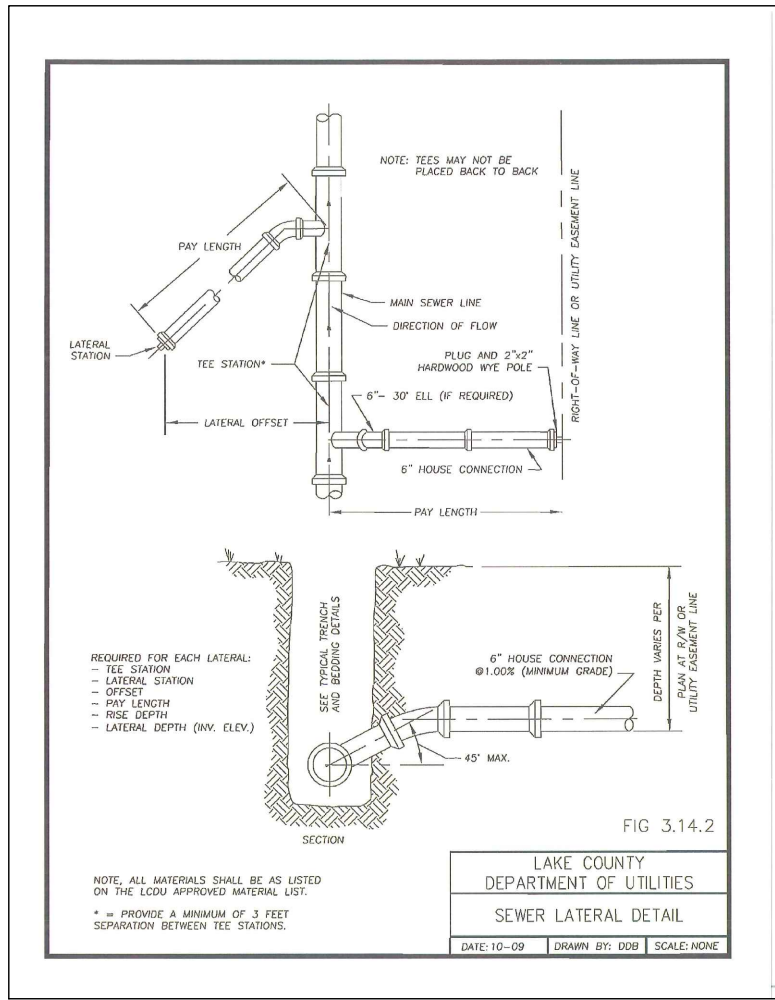
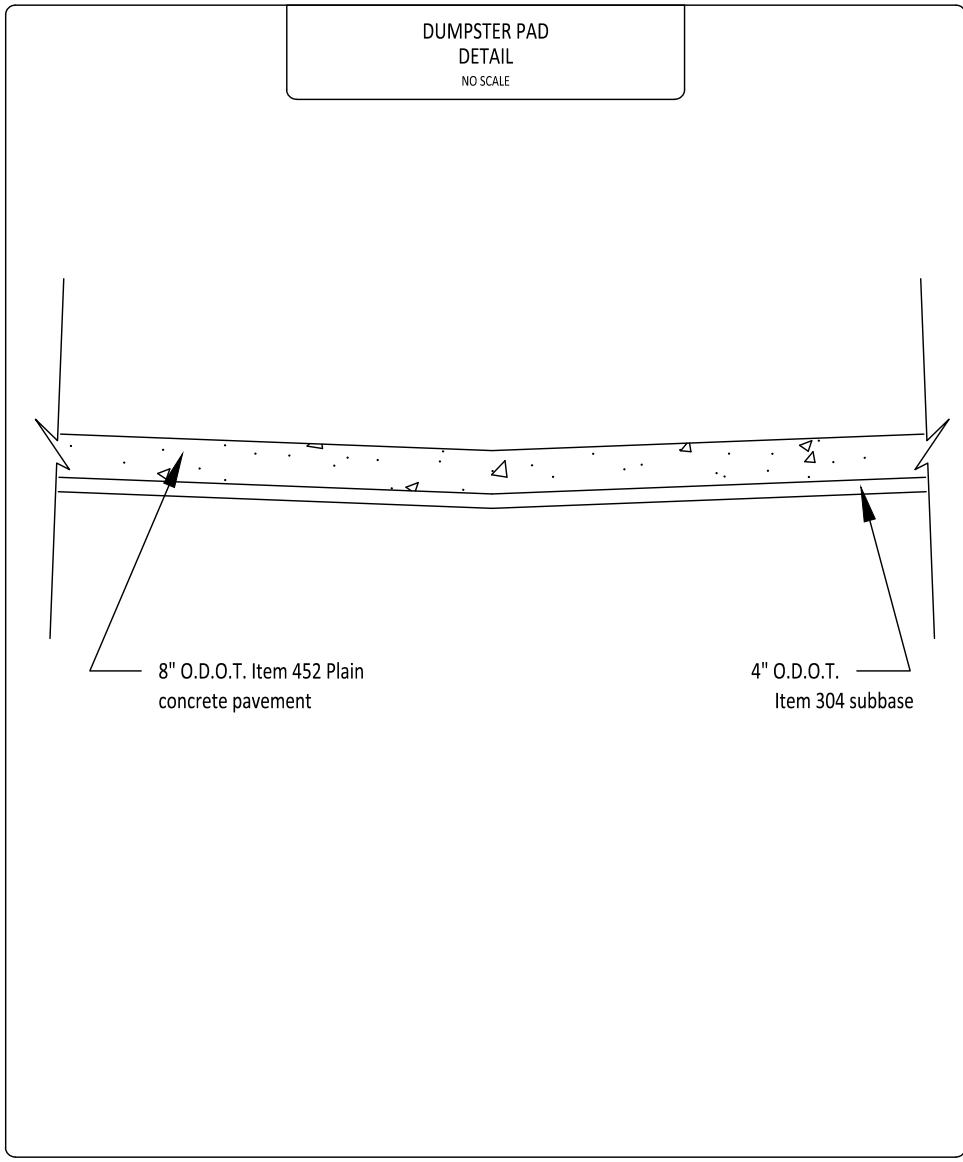
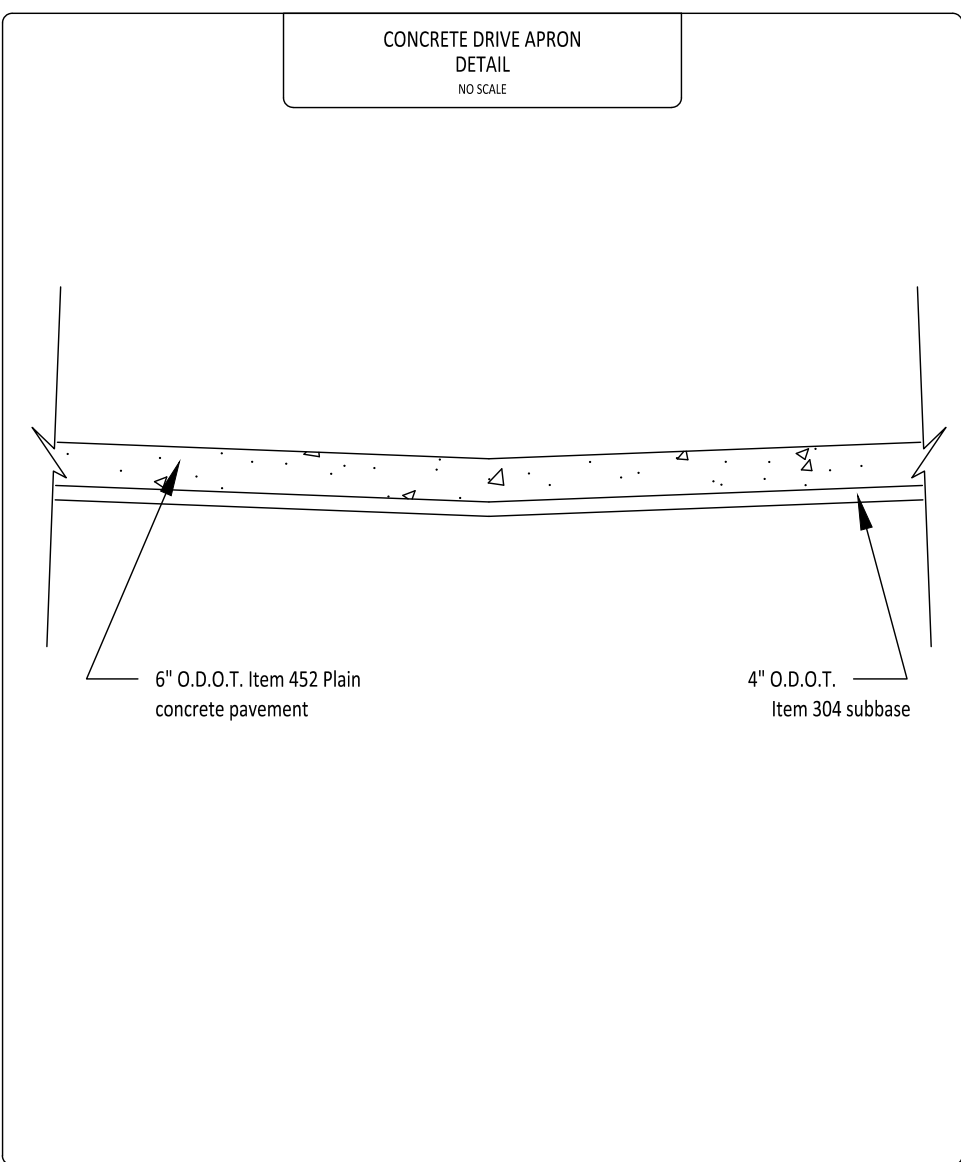
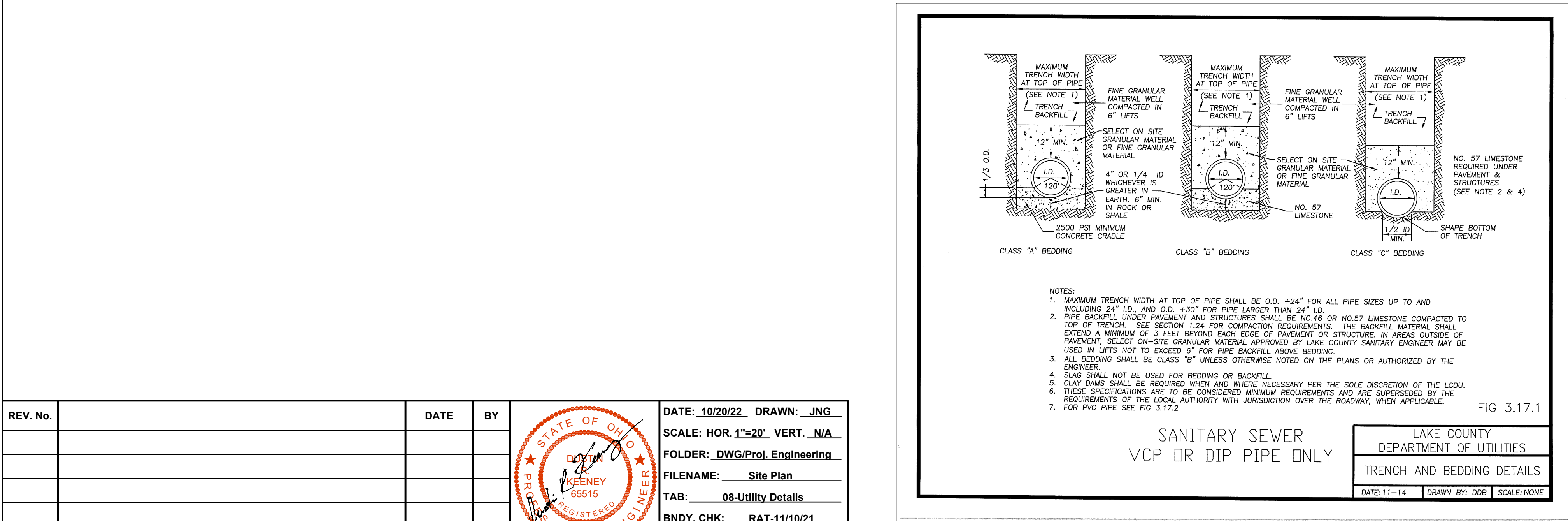
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DATE: 10/20/22, DRAWN: JNG  
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BN DY. CHK: RAT-11/10/21  
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**UTILITY DETAILS**

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