

W:\GandeeHeydingerGroup\Civil_3D_Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester OH\DWG\SITE CONSTRUCTION\TITLE-SHEET.dwg Layout1 Nov 15, 2017 - 1:53:01pm agolden

STANDARD CONSTRUCTION DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE A PART THEREOF.

CB 2-2B
MH-3
HW-2.1

SITE DATA TABLE

TOTAL SITE AREA:	1.5219 AC.
DISTURBED AREA: INCLUDING ROW	1.0 AC.
PRE-DEVELOPED IMPERVIOUS AREA:	0.00AC.
POST-DEVELOPED IMPERVIOUS AREA:	0.71 AC.
CRITICAL STORM:	25-YEAR

FLOODPLAIN DATA

THE DEVELOPMENT IS LOCATED IN ZONE X, AREAS DETERMINED TO BE OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN. FLOOD INSURANCE RATE MAP (FIRM) NO. 39017C0332E FOR BUTLER COUNTY, OHIO, REVISED DEC. 17, 2010.

BENCHMARKS
NAVD 1988

BASIS OF VERTICAL CONTROL

THE VERTICAL CONTROL IS BASED ON THE ELEVATIONS ESTABLISHED BY FRANKLIN COUNTY GEODETIC SURVEY MONUMENTS. THE SAID MONUMENTS WITH SAID BENCHMARKS WITH ELEVATIONS THAT ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.

- SOURCE: WARREN COUNTY GIS MONUMENT #1
ELEVATION = 870.67 (NAVD88)
- SITE BM1: EXISTING FIRE HYDRANT ARROW BOLT SHOWN AS SITE BM #1.
- NORTHING: :
EASTING: :
ELEVATION: 828.396'
- SITE BM2: IRON PIN FOUND WITH CAP LABELED BAYER & BECKER AT THE NORTHEAST PROPERTY CORNER. SHOWN ON BASE MAP AS SITE BM #2.
- NORTHING: :
EASTING: :
ELEVATION: 822.373'
- SITE BM3: IRON PIN FOUND WITH CAP LABELED BAYER & BECKER AT THE SOUTHWEST PROPERTY CORNER. SHOWN ON BASE MAP AS SITE BM #3.
- NORTHING: :
EASTING: :
ELEVATION: 836.238'

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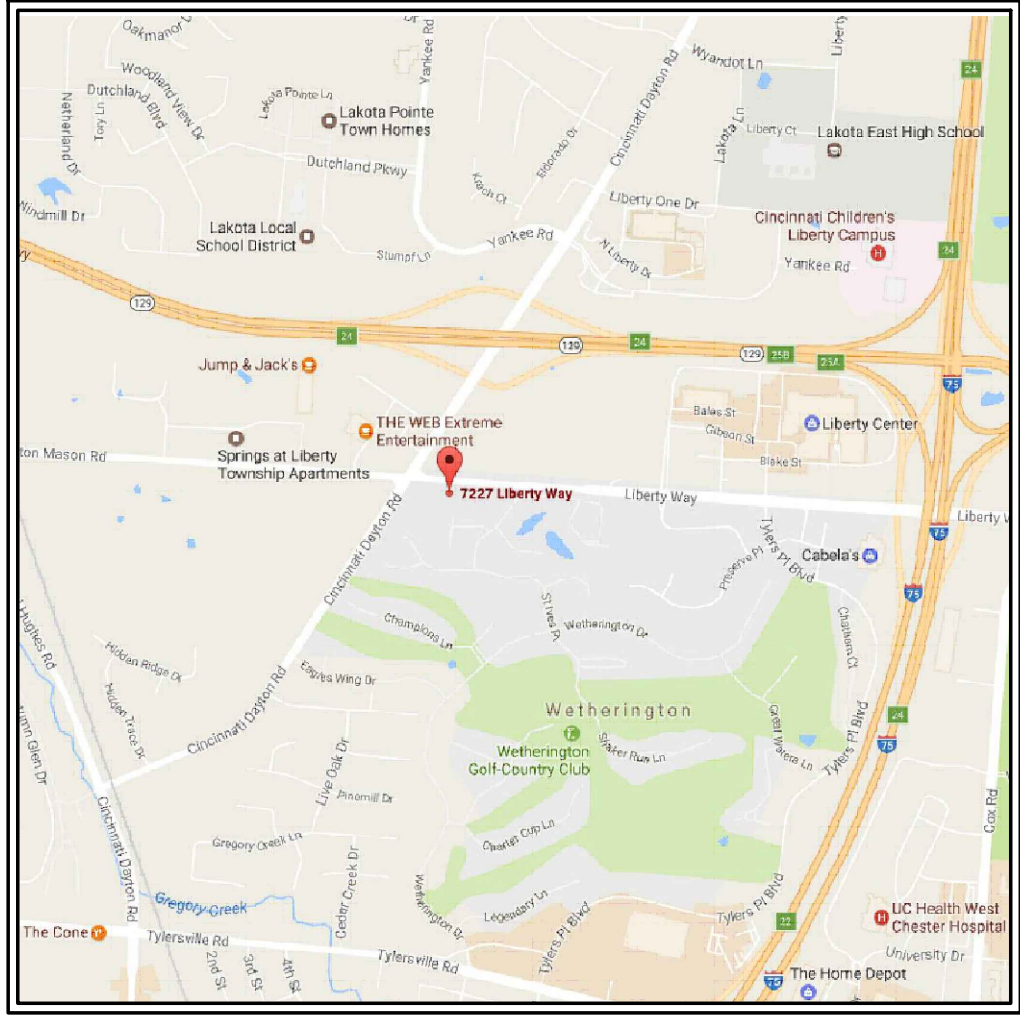
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WEST CHESTER TOWNSHIP, BUTLER COUNTY, OHIO
STORM SEWER, GRADING &
DETENTION PLAN
FOR
FOCAL POINT EYECARE



PROJECT INDEX MAP

SCALE: 1" = 100'



VICINITY MAP

SCALE: NONE

SHEET INDEX

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APPROVALS

THE BUTLER COUNTY ENGINEER'S SIGNATURE ON THIS PLAN SIGNIFIES ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED IMPROVEMENTS WITH RESPECT TO IMPROVEMENTS WITHIN THE RIGHT-OF-WAY, STORM WATER MANAGEMENT, EROSION AND SEDIMENT CONTROL. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND CERTIFIED THESE PLANS.

BUTLER COUNTY ENGINEER

DATE



Permit Set
November 6, 2017

PLAN PREPARED FOR:



PLAN PREPARED BY:



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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINT EYE CARE
AT
7227 LIBERTY WAY
TITLE SHEET

REVISION DESCRIPTION

DATE

NO.

SEAL

Date: 11-6-2017
Scale: AS SHOWN

Drawn By: AWG
Checked By: ASH

Project Number:
17-071-02

Drawing Number:

C-1

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SUMMARY OF QUANTITIES			
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
CLEARING AND GRUBBING			
201	LUMP	LUMP	CLEARING & GRUBBILNG
203	LUMP	LUMP	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION
252	1	LF	FULL DEPTH PAVEMENT SAWING
SEDIMENTATION AND EROSION CONTROL			
207	LUMP	LUMP	EROSION CONTROL SYSTEM MAINTENANCE
207	1	EA	CONSTRUCTION ENTRANCE
207	310	LF	SILT FENCE
207	11	EA	INLET PROTECTION
207	1	EA	CONCRETE WASHOUT
616	LUMP	LUMP	DUST CONTROL
659	LUMP	LUMP	PERMANENT SEEDING AND MULCHING
659	LUMP	LUMP	STRAW BALES
STORM DRAINAGE			
604	2	EA	VERTICAL ORIFICE PLATE
611	5	EA	CATCH BASIN 2-2B
611	1	EA	MANHOLE MH-3 W/ WATER TIGHT LID
611	372	LF	12" HDPE STORM PIPE W/ TYPE 1 BEDDING
SANITARY SEWER			
SPEC	105	LF	6" SANITARY LATERAL CONNECTION SERVICE
SPEC	1	EA	6" SANITARY SEWER WYES & FITTINGS
SPEC	1	EA	6" SANITARY SEWER CLEANOUT
THE CONTRACTOR SHALL COMPLETE HIS OWN QUANTITY TAKEOFF IN DETERMINING THE BID PRICE FOR THE PLAN IMPROVEMENTS.			

GENERAL NOTES

THE CUYAHOGA COUNTY SUBDIVISION REGULATIONS (CURRENT EDITION), & THE OHIO DEPARTMENT OF TRANSPORTATION, CURRENT EDITION (ENGLISH UNITS) SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THE PLANS UNLESS NOTED OTHERWISE. ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER AND WEST CHESTER TOWNSHIP, FOR WATER AND SANITARY INFRASTRUCTURE.

INSPECTION

THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERS OFFICE AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

PERMITS

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT SHALL BE KEPT ONSITE AT ALL TIMES.

UTILITIES

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. CUYAHOGACOUNTY OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLAN.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERAL AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

PRIOR TO EXCAVATION, THE CONTRACTOR SHALL GIVE A 72-HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362-2764. A 48-HOUR NOTICE SHALL BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.

EMERGENCY PROVISIONS

THE CONTRACTOR SHALL PROVIDE TO THE CUYAHOGACOUNTY PROJECT REPRESENTATIVE A LIST OF 24 HOUR EMERGENCY TELEPHONE NUMBERS (IN WRITING) PRIOR TO THE START OF CONSTRUCTION.

MISCELLANEOUS WORK ITEMS

THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENT.

BENCHMARKS AND SURVEY MONUMENTS

DO NOT DISTURB ANY CUYAHOGACOUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT.

COMPACTION TESTING AT UTILITY CROSSINGS

PRIOR TO CONSTRUCTION, SOIL TESTS SHALL BE MADE ON ALL OPEN CUT UTILITY TRENCHES WHICH CROSS THE PROPOSED PAVEMENTS OR WHICH LIE SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATE THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT ITEM 304, ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL COMPLIANCE IS ACHIEVED.

SAW CUTTING IS INCLUDED

THE COST OF SAW CUTTING FOR THE REMOVAL OF PAVEMENT, CURB, WALKS, ETC. SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ODOT ITEM 252 WORK ITEMS. SAW CUTTING IS REQUIRED TO PROVIDE SMOOTH STRAIGHT EDGES FOR REMOVAL PURPOSES.

NEW PIPE CONNECTION TO AN EXISTING SEWER STRUCTURE

WHERE THE PLANS PROVIDE FOR NEW PIPE TO BE CONNECTED TO AN EXISTING SEWER/STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN OPENING AT THE PROPER SIZE, ALIGNMENT, AND ELEVATION FOR THE CONNECTION. THE OPENING SHALL BE MADE LARGE ENOUGH TO RECEIVE AND JOIN THE PROPOSED PIPE PER ODOT ITEM 611.

NO DIRECT PAYMENT SHALL BE MADE. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR ODOT ITEM 611- PIPE WITH TYPE _ BEDDING.

DIVISION OF ELECTRIC NOTES

IF ANY ELECTRIC FACILITY BELONGING TO THE DIVISION OF ELECTRICITY IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, IT'S AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DIVISION OF ELECTRICITY SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COST SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF ELECTRICITY.

BACKFILLING FOR PUBLIC STORM SEWERS, CULVERTS AND UTILITIES

UTILITY TRENCHES OUTSIDE THE RIGHT-OF-WAY SHALL BE BACKFILLED WITH SOILS MEETING THE REQUIREMENTS OF ODOT ITEM 203. THESE TRENCHES ARE TO BE COMPACTED TO 95% OF MAXIMUM DRY LABORATORY WEIGHT AT +/- 2% OF OPTIMUM MOISTURE AND IN ACCORDANCE TO STANDARD DRAWING 2179.

ALL UTILITY TRENCHES IN THE RIGHT-OF-WAY RUNNING PARALLEL TO THE EDGE PAVEMENT AND NOT OVER FIVE FEET (5') IN DEPTH SHALL BE BACKFILLED ACCORDING TO STANDARD DRAWING 2179.

ALL UTILITY TRENCHES UNDER ROAD PAVEMENT WITHIN THE R-O-W, STARTING AT A DISTANCE OF FIVE FEET (5') FROM THE EDGE OF THE PAVEMENT AND EXTENDING ONE FOOT (1') IN DISTANCE FOR EACH ONE FOOT (1') IN DEPTH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIALS PER STANDARD DRAWING 2179 OR LOW STRENGTH MORTAR BACKFILL. ALSO, THE TOP OF ALL UTILITY CONDUITS SHALL BE LOCATED AT LEAST ONE FOOT BELOW THE UNDERDRAINS.

CASING PIPE REQUIRED WITHIN THE RIGHT-OF-WAY SHALL BE SDR 21 OR SCHEDULE 40 FOR NON-PRESSURIZED LINES AND C-900 (LESS THAN 12-INCHES) OR C-905 (GREATER THAN 12-INCHES) FOR PRESSURIZED LINES.

STORM SEWERS

THE PROPOSED ELEVATIONS AND LOCATIONS OF INLETS, CATCH BASINS, AND PIPES, AND THE ESTIMATED LENGTHS OF PIPES, MAY BE ADJUSTED BY THE COUNTY ENGINEER DURING THE ENTIRE IMPROVEMENT OF THIS PROJECT. BASIS OF PAYMENT FOR POSSIBLE ADJUSTMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS STORM SEWERS TO BE ADJUSTED.

UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWERS SHALL BE AS HEREFTER SPECIFIED: ALL SIZES OF STORM SEWER LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE TYPES "A" OR "B" CONDUIT (ODOT ITEM 611).

STORM SEWERS LOCATED OUTSIDE OF THE RIGHT-OF-WAY SHALL BE TYPE "C" CONDUIT OR HDPE COMPLYING WITH ODOT 70733. WHERE REINFORCED CONCRETE PIPE IS USED ON ANY PORTION OF STORM SYSTEM TO BE PLACED ON DRAINAGE MAINTENANCE, INSTALLATION OF THE STORM SEWER SHALL MEET THE REQUIREMENTS OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ALL TYPE "A", "B", AND "C" CONDUIT SHALL HAVE JOINTS, PER ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SHALL USE TYPE C BITUMINOUS PIPE JOINT FILLER.

BEDDING SHALL BE PROVIDED FOR ALL TYPE "A", "B", AND "C" CONDUIT PER ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.

GRADING NOTES

EXCAVATION AND EMBANKMENT SHALL COMPLY WITH ODOT ITEM 203 .

THE CONTRACTOR'S BID SHALL BE COMPREHENSIVE AND INCLUDE ALL LABOR AND EQUIPMENT TO COMPLETE ALL EXCAVATION, FILL AND GRADING IN ACCORDANCE WITH THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.

EXCAVATION AND EMBANKMENT QUANTITIES DO NOT INCLUDE ANY PROVISION FOR UNDERCUTTING, FOOTINGS, OR UNSUITABLE MATERIAL.

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PORT OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEETS 6 & 7 OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST BE IN COMPLIANCE WITH ALL OEPA REGULATIONS. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY, CITY ENGINEER AND/OR OHIO EPA.

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY ENGINEER, PROJECT ENGINEER AND/OR OHIO EPA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY ENGINEERS OFFICE TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF CONSTRUCTION ACTIVITY.

THE NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENTATION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A ½ INCH STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER (WITH SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

SANITARY SEWER NOTES

ALL SANITARY SEWERS AND APPURTENANCES, MATERIALS AND INSTALLATION PROCEDURES, SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF CUYAHOGACOUNTY.

ALL SANITARY MAINS (8" AND LARGER) AND SERVICES (6") SHALL BE SDR-35 PIPE MEETING THE REQUIREMENTS OF ASTM D-3034 WITH THE PIPE JOINTS MEETING ASTM D-3212.

ALL WYE FITTINGS SHALL BE SDR-35 SEWER PIPE AND SHALL HAVE A TWO FOOT SERVICE EXTENSION INSTALLED PRIOR TO THE SERVICE BEING CAPPED AND BACKFILL BEING PLACED OVER THE MAINLINE LATERAL SEWER.

SEWER TRENCHES SHALL BE DEWATERED TO 2" BELOW THE BELL OF PIPE PRIOR TO INSTALLATION.

THE CONTRACTOR SHALL PROVIDE AND INSTALL 4' X 4' LUMBER WYE POLES AT ALL WYE LOCATIONS AS CONSTRUCTED. WYE POLES SHALL EXTEND ABOVE THE EXISTING OR PROPOSED GRADE, WHICHEVER IS HIGHER, A MINIMUM OF 2'-0". A 3 FOOT LENGTH OF 3/4" DIAMETER STEEL PIPE OR ROD SHALL BE ATTACHED TO THE WYE POLES 2" BELOW FINAL GRADE. WYE POLES ARE TO BE PAINTED PINK.

ALL WATER MAINS ARE TO BE SEPARATED 10 FEET HORIZONTALLY AND 1.5 FEET VERTICALLY FROM ALL PARALLEL SANITARY SEWERS.

WHENEVER A WATER MAIN AND SANITARY SEWER MUST CROSS, THE WATER MAIN SHALL BE 1.5 FEET ABOVE THE CROWN OF THE SEWER PIPE. MEASUREMENT TO BE BETWEEN THE OUTSIDE OF PIPE WALLS.

APPROVAL OF THESE PLANS IS CONTINGENT UPON ALL REQUIRED SANITARY SEWER EASEMENTS BEING APPROVED BY THE COUNTY AND RECORDED PRIOR TO CONSTRUCTION.

IF ANY FIELD TILE DISTURBED DURING CONSTRUCTION, CONTACT THE CITY ENGINEER. THE TILE SHALL BE REPLACED, AS DIRECTED BY THE CITY ENGINEER, WITH SDR-35 PERFORATED PIPE. PIPE WILL BE USED TO SPAN THE TRENCH, OR TO INTERCEPT AND CONVEY TO THE STORM SEWER. TRENCH TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.

ALL SANITARY SEWER TRENCHES, NOT WITHIN A STREETS INFLUENCE, SHALL BE BACKFILLED WITH EXCAVATED MATERIAL IN LIFTS NOT TO EXCEED 8 INCHES, COMPACTED TO 95% MAXIMUM DRY DENSITY.

ALL SANITARY LATERALS WHICH CROSS A WATER LINE OR STORM SEWER SHALL BE EXTENDED 10 FEET BEYOND THE WATER LINE OR STORM SEWER.

RISERS SHALL BE PLACED ON WYES AS DIRECTED BY THE ENGINEER, AND AS SHOWN ON THE TYPICAL SANITARY SERVICE LATERAL INSTALLATION DETAIL.

ALL SERVICE EXTENSIONS SHALL BE LAID AT A MINIMUM GRADE OF 1/4" PER FOOT AND SHALL BE CONSTRUCTED AT THE TIME OF CONSTRUCTION OF THE MAIN SEWER, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. SERVICE EXTENSIONS SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD CONSTRUCTION DRAWING AND TYPICAL SANITARY SERVICE LATERAL INSTALLATION DETAIL.

MANHOLE CASTINGS ARE TO BE SET, OR SUBSEQUENTLY ADJUSTED TO 2" ABOVE THE SURFACE GRADE ESTABLISHED BY THE ENGINEER WHEN MANHOLE IS OUTSIDE PAVED AREAS. ALL ADJUSTMENTS SHALL BE PERFORMED USING PRECAST RINGS. BRICKS SHALL NOT BE USED FOR GRADE ADJUSTMENT UNLESS DIRECTED BY THE ENGINEER.

ALL MANHOLES SHALL BE CUYAHOGACOUNTIES STANDARD PRECAST CONCRETE MANHOLES AS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS. CASTING TO BE CUYAHOGACOUNTY STANDARD LID.

SANITARY SEWERS SHALL BE TESTED BY THE AIR TESTING METHOD. THE AIR PRESSURE SHALL NOT DROP MORE THAN 1 PSIG FROM 3.5 TO 2.5 IN THE ALLOWABLE TIME PER UNI-B-6 STANDARDS. CONTRACTOR SHALL COOPERATE WITH CITY ENGINEER AND PROVIDE EQUIPMENT NECESSARY FOR TEST.

ALL SANITARY SEWER INSTALLED ON THIS PROJECT USING PVC PIPE WILL BE SUBJECT TO DEFLECTION TESTING. AN APPROVED "GO-NO GO" MANDREL MUST BE PULLED BY HAND THROUGH THE PIPE, AFTER BACKFILLING HAS BEEN IN PLACE FOR AT LEAST 60 DAYS. THE MAXIMUM ALLOWABLE DEFLECTION IS 5% OF THE INTERNAL DIAMETER. PIPE EXCEEDING THE ALLOWABLE DEFLECTION SHALL BE LOCATED, EXCAVATED, REPLACED AND RETESTED AT THE SOLE EXPENSE OF THE CONTRACTOR. COUNTY ENGINEER OR HIS REPRESENTATIVE MUST WITNESS TEST.

TEMPORARY BULKHEADS SHALL BE PLACED WHERE INDICATED ON THE PLANS, AND SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE COUNTY ENGINEER.

ALL SANITARY LINES SHALL BE CLEANED OF DEBRIS (LEAVES, STONE, DIRT, ETC.) PRIOR TO CITY TAKING OWNERSHIP.

SANITARY SEWER MUST MEET "10 STATES STANDARDS".

ALL SANITARY TRUNK LINES ARE TO BE CAMERA/VIDEO TAPED PRIOR TO THE CITY OF CUYAHOGACOUNTIES FINAL ACCEPTANCE. A COPY OF THE MEDIA, WITH A SUMMARY REPORT IS TO BE PROVIDED TO THE COUNTY ENGINEER.

ALL MANHOLES ARE TO BE VACUUM TESTED IN ACCORDANCE WITH ASTM C-1244 (10 STATES STANDARDS)

ALL SANITARY MANHOLES ARE TO BE ENCAPSULATED WITH "WRAPIDSEAL" OR APPROVED EQUAL. CRETEX INTERIOR CHIMNEY SEALS OR APPROVED EQUAL SHALL BE INSTALLED BETWEEN THE CONE SECTION AND THE CASTING OF THE MANHOLE.

PRIVATE SANITARY SEWERS SHALL BE TESTED BY THE AIR TESTING METHOD. THE AIR PRESSURE SHALL NOT DROP MORE THAN 1 PSIG FROM 3.5 TO 2.5 IN THE ALLOWABLE TIME PER UNI-B-6 STANDARDS. CONTRACTOR SHALL COOPERATE WITH MARYSVILLE COUNTY ENGINEER AND PROVIDE EQUIPMENT NECESSARY FOR TEST.

BACKFILL OPERATIONS SHALL CONFORM TO THE STANDARD CONSTRUCTION DRAWINGS AND MEET THE SPECIFICATIONS LISTED BELOW.

- UTILITY TRENCHES OUTSIDE THE RIGHT-OF-WAY SHALL BE BACKFILLED WITH SOILS MEETING THE REQUIREMENTS OF ODOT ITEM 203. THESE TRENCHES ARE TO BE COMPACTED TO 95% OF MAXIMUM DRY LABORATORY WEIGHT AT +/- 2% OF OPTIMUM MOISTURE AND IN ACCORDANCE TO STANDARD DRAWING 2179.
- ALL UTILITY TRENCHES IN THE RIGHT-OF-WAY RUNNING PARALLEL TO THE EDGE PAVEMENT AND NOT OVER FIVE FEET (5') IN DEPTH SHALL BE BACKFILLED ACCORDING TO STANDARD DRAWING 2179.
- ALL UTILITY TRENCHES UNDER ROAD PAVEMENT WITHIN THE R-O-W, STARTING AT A DISTANCE OF FIVE FEET (5') FROM THE EDGE OF THE PAVEMENT AND EXTENDING ONE FOOT (1') IN DISTANCE FOR EACH ONE FOOT (1') IN DEPTH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIALS PER STANDARD DRAWING 2179 OR LOW STRENGTH MORTAR BACKFILL. ALSO, THE TOP OF ALL UTILITY CONDUITS SHALL BE LOCATED AT LEAST ONE FOOT BELOW THE UNDERDRAINS.
- THE CONTRACTOR SHALL PLACE CUTOFF TRENCH DAMS OF NATIVE CLAY OR IMPERVIOUS SOIL ACROSS AND ALONG THE TRENCH BETWEEN ADJACENT MANHOLES TO RETARD AND RESIST THE MOVEMENT OF GROUNDWATER THROUGH THE TRENCH PER ITEM 3.2C IN THE SANITARY SEWER SPECIFICATIONS.
- SOIL TESTS SHALL BE TAKEN AT ALL SANITARY SEWER, DESIGNATED STORM SEWER TRENCHES, AND WATER LINE TRENCHES WHICH CROSS THE PROPOSED PAVEMENT OR WHICH LIE WITHIN ANY PART OF THE INFLUENCE LINE OF THE PROPOSED PAVEMENT.

WATER LINE NOTES

ALL WATER LINE MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF MARYSVILLE AND THE AWWA.

WATER LINE TRENCHES SHALL BE DEWATERED TO 2" BELOW THE BELL OF PIPE PRIOR TO INSTALLATION.

IN CASE OF A CONFLICT IN GRADE BETWEEN STORM SEWERS AND WATER LINE, THE WATER LINE SHALL BE LOWERED.

ALL WATER METERS SHALL BE INSTALLED INSIDE OF THE PROPOSED STRUCTURE, NOT IN A METER PIT, UNLESS SAID METER PIT IS APPROVED BY THE CITY OF MARYSVILLE.

WATER SERVICE BOXES SHALL BE SET 2 FEET FROM THE EDGE OF SIDEWALK, BETWEEN THE SIDEWALK AND CURB.

WATER SERVICE SHALL HAVE A MINIMUM COVER OF 4 FEET 6 INCHES FROM THE FINAL GRADE.

ALL WATER LINES ARE TO BE ENCLOSED IN A SEAMLESS POLYETHYLENE TUBING. THE POLYETHYLENE TUBING SHALL BE OF VIRGIN POLYETHYLENE AND AS PRODUCED FROM DuPONT ALATHON RESIN OR EQUAL.

CONTRACTORS SHALL PROVIDE CONCRETE BACKING FOR BENDS, ELBOWS, TEES. HARDWOOD WEDGES SHALL BE USED WHERE NECESSARY. THERE IS A LOCAL SUPPLIER OF THIS PRODUCT. MEGALUG RETAINING GLANDS, OR APPROVED EQUAL, SHALL ALSO BE USED IN ACCORDANCE WITH MARYSVILLE STANDARD DRAWINGS.

FIRE HYDRANTS SHALL BE CLOW VALVE COMPANY MEDALION HYDRANT WITH A 4 ½ INCH MAIN VALVE OPENING. THEY ARE TO HAVE A THREE WAY UPPER BARREL WITH ONE 4 ½ INCH PUMPER NOZZLE AND TWO 2 ½ INCH HOSE NOZZLES. SEE MARYSVILLE WATER DIVISION SPECIFICATIONS SECTION 1 FOR DETAILS. MUST MEET A.W.W.A. C-502 STANDARDS.

ALL SERVICE LINES SHALL BE TYPE K SOFT COPPER CONFORMING TO ASTM B-88, AND UNDERGROUND JOINTS MUST BE FLARED. DUCTILE IRON SHALL BE USED IF SERVICE EXCEEDS 2 INCHES.

WATER LINE SHALL BE DEFLECTED, PER MANUFACTURE SPECIFICATIONS, TO PROVIDE 1 FT. 6 IN.VERTICAL AND 10 FT. HORIZONTAL CLEARANCE WITH SEWERS. IF THIS IS NOT FEASIBLE, THEN STANDARD CONSTRUCTION DRAWINGS NO. 22, 62, 63, AND 74 WILL APPLY.

ALL WATER MAINS ARE TO BE SEPARATED 10 FEET HORIZONTALLY AND 1.5 FEET VERTICALLY FROM ALL PARALLEL SANITARY SEWERS.

WHENEVER A WATER MAIN AND SANITARY SEWER MUST CROSS, THE WATER MAIN SHALL BE 1.5 FEET ABOVE THE CROWN OF THE SEWER PIPE. MEASUREMENT TO BE BETWEEN THE OUTSIDE OF PIPE WALLS. IF THE TOP OF THE OPERATING NUT FOR WATER VALVE IS GREATER THAN 36 INCHES BELOW FINISH GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO 36 INCHES BELOW FINAL GRADE.

TRANSVERSE WATER LINES WITHIN PAVEMENT AREA SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL OR ODOT 613 (LSM) TO FOUR FEET BEYOND THE FACE OF THE CURB OR EDGE OF PAVEMENT.

THE WATER LINE MATERIAL SHALL BE CLEARLY IDENTIFIED AS CONFORMING TO A.W.W.A. STANDARDS.

PRESSURE TESTING WILL BE IN ACCORDANCE WITH A.W.W.A. C0600, AS DESCRIBED IN CITY OF MARYSVILLE WATER DIVISION SPECIFICATION, SECTION 14.

ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE CITY OF MARYSVILLE SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651 PARTICULARLY FOR FLUSHING (SECTION 5) AND CHLORINATING VALVES AND FIRE HYDRANTS.

INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE. (OHIO ADMINISTRATIVE CODE RULE 3745-95-07 (A)).

THE NORMAL WORKING PRESSURE IN THE WATER LINE WILL NOT BE LESS THAN 35 PSL. (2003 RECOMMENDED STANDARDS FOR WATER WORKS, PRESSURE SECTION 8.2.1).

BACKFILL REQUIREMENTS SHALL BE AS FOLLOWS:

TRENCHES OUTSIDE OF THE INFLUENCE OF STREETS SHALL REQUIRE 95% OF MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OF OPTIMUM MOISTURE. MATERIAL SHALL BE PER ODOT 203.07 AND SUPPLEMENTAL SPECIFICATION 1015.

TRENCHES WITHIN 3 FEET OF THE EDGE OF PAVEMENT AND WITHIN THE CONE OF INFLUENCE SHALL REQUIRE GRANULAR BACKFILL COMPACTED TO 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 2% OPTIMUM MOISTURE. CONE OF INFLUENCE BEGINS 3 FEET FROM THE FACE OF CURB OR 3 FEET FROM THE EDGE OF PAVEMENT AND EXTENDS ONE FOOT IN DISTANCE FOR EVERY ONE FOOT IN DEPTH. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR ODOT 613. LOW STRENGTH MORTAR (lsm). WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATION, ALL BACKFILL SHALL BE REMOVED AND RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07.

STORM, SANITARY, AND UTILITY TRENCHES UNDER ROAD PAVEMENT SHALL REQUIRE GRANULAR BACKFILL COMPACTED TO THE 98% OF THE MAXIMUM DRY LABORATORY WEIGHT AT PLUS OR MINUS 1.5% OPTIMUM MOISTURE. BACKFILL MATERIAL SHALL BE ODOT 304 AGGREGATE OR ODOT 613. LOW STRENGTH MORTAR (LSM), WHERE SAID RESULTS INDICATE THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF ODOT 203.07 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, ALL BACKFILL SHALL BE RETESTED UNTIL COMPACTION MEETS THE REQUIREMENTS OF 203.07.

PLAN PREPARED FOR:



PLAN PREPARED BY:



642 BROOKEDGE BLVD.
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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO

CIVIL PLANS

FOCAL POINTE EYE CARE

AT

7227 LIBERTY WAY

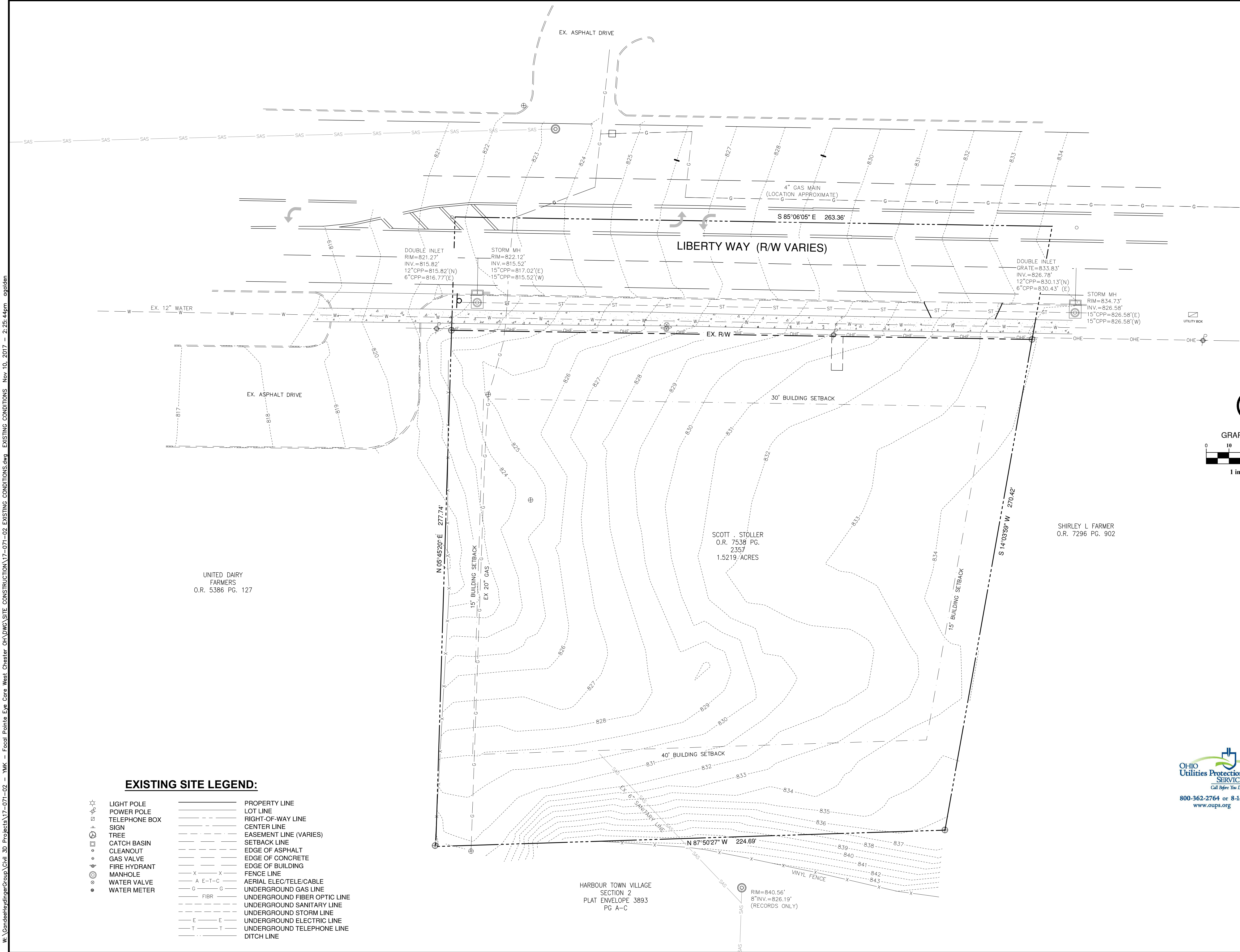
SUMMARY OF QUANTITIES
& GENERAL NOTES

NO.	DATE	REVISION DESCRIPTION				

SEAL	
Date:	11-6-2017
Scale: AS SHOWN	
Drawn By:	Checked By:
AWG	ASH
Project Number:	
17-071-02	
Drawing Number:	
C-2	

Permit Set
November 6, 2017

W:\GandeeHeydingerGroup\Civil_3D Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester OH\DWG\SITE CONSTRUCTION\17-071-02 EXISTING CONDITIONS.dwg EXISTING CONDITIONS Nov 10, 2017 - 2:25:44pm agolden



EXISTING SITE LEGEND:

- | | | | |
|--|---------------|--|------------------------------|
| | LIGHT POLE | | PROPERTY LINE |
| | POWER POLE | | LOT LINE |
| | TELEPHONE BOX | | RIGHT-OF-WAY LINE |
| | SIGN | | CENTER LINE |
| | TREE | | EASEMENT LINE (VARIES) |
| | CATCH BASIN | | SETBACK LINE |
| | CLEANOUT | | EDGE OF ASPHALT |
| | GAS VALVE | | EDGE OF CONCRETE |
| | FIRE HYDRANT | | EDGE OF BUILDING |
| | MANHOLE | | FENCE LINE |
| | WATER VALVE | | AERIAL ELEC/TELE/CABLE |
| | WATER METER | | UNDERGROUND GAS LINE |
| | | | UNDERGROUND FIBER OPTIC LINE |
| | | | UNDERGROUND SANITARY LINE |
| | | | UNDERGROUND STORM LINE |
| | | | UNDERGROUND ELECTRIC LINE |
| | | | UNDERGROUND TELEPHONE LINE |
| | | | DITCH LINE |

PLAN PREPARED FOR:



PLAN PREPARED BY:



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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
Focal Pointe Eye Care
AT
7227 LIBERTY WAY
EXISTING CONDITIONS PLAN

NO.	DATE	REVISION DESCRIPTION

SEAL

Date: 11-6-2017
Scale: AS SHOWN

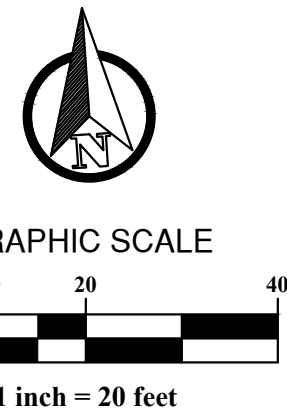
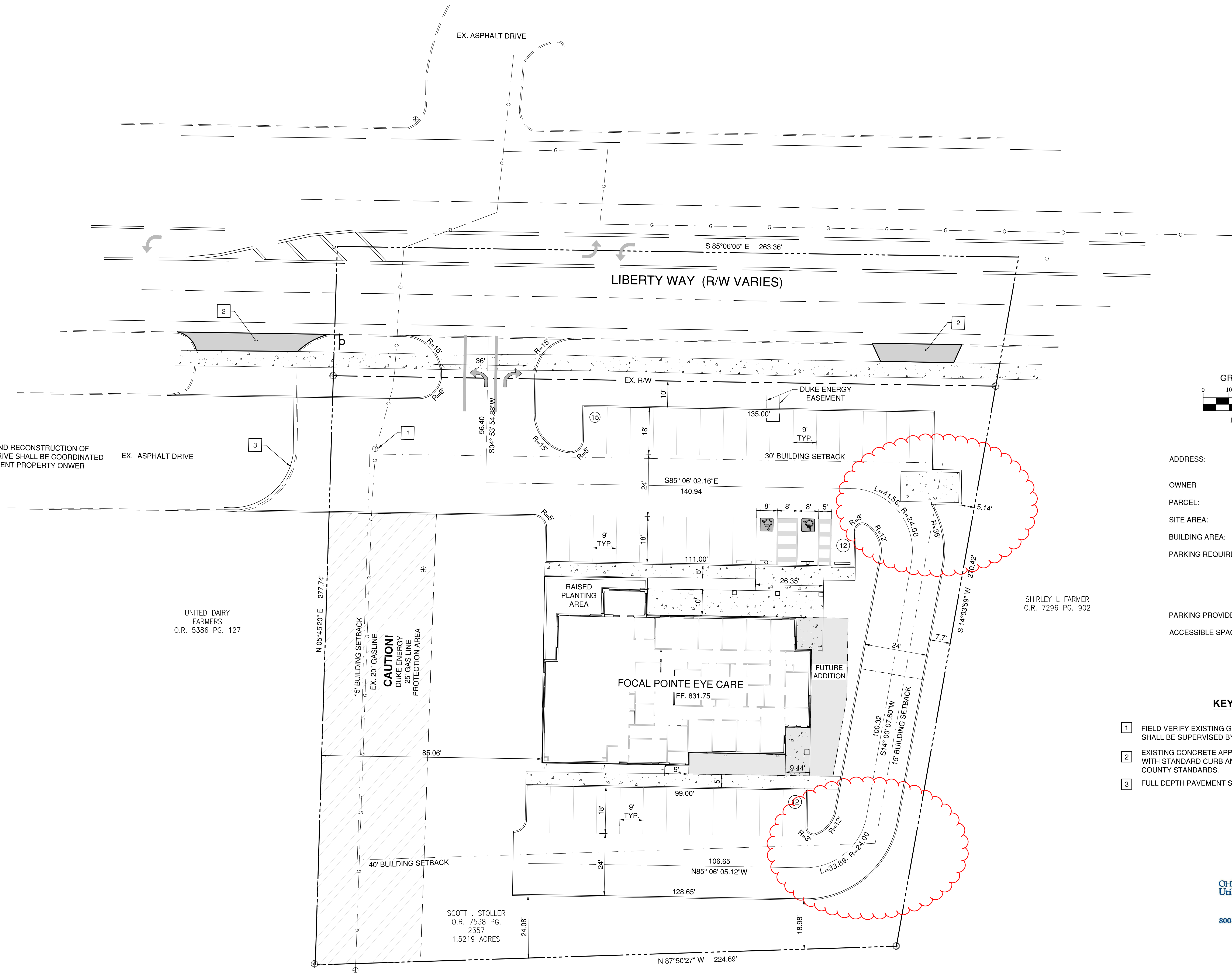
Drawn By: AWG
Checked By: ASH

Project Number:
17-071-02

Drawing Number:
C-3

Permit Set
November 6, 2017

W:\GandeeHeydingerGroup\Civil_3D Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester OH\DWG\REF\X-base.dwg SITEPLAN Nov 10, 2017 - 4:38:46pm agolden



ADDRESS: 7227 LIBERTY WAY
WEST CHESTER, OHIO 45069

OWNER LIZ & MICHAEL LYONS

PARCEL: M5610020000004

SITE AREA: 1.5219 ACRES

BUILDING AREA: 5,692 SF

PARKING REQUIRED: 1 SPACE / 200 SF
5,692 SF / 200 SF = 29 SPACES

FUTURE BUILDING EXPANSION
1 SPACE / 200 SF
830 SF / 200 SF = 4 SPACES

PARKING PROVIDED: 37 SPACES

ACCESSIBLE SPACES: 1 REQUIRED / 50 STD. SPACES PROVIDED

KEYED NOTES

- 1 FIELD VERIFY EXISTING GAS LINE MARKER. ANY GRADING IN THIS AREA SHALL BE SUPERVISED BY A DUKE ENERGY CERTIFIED INSPECTOR.
- 2 EXISTING CONCRETE APPROACH TO BE REMOVED AND REPLACED WITH STANDARD CURB AND GUTTER & GRASS STRIPE AS PER BUTLER COUNTY STANDARDS.
- 3 FULL DEPTH PAVEMENT SAWCUT AND HEAT WELD



HARBOUR TOWN VILLAGE
SECTION 2
PLAT ENVELOPE 3893
PG A-C

Permit Set
November 6, 2017

PLAN PREPARED FOR:



PLAN PREPARED BY:



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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SITE PLAN

REVISION DESCRIPTION

DATE

NO.

SEAL

Date: 11-6-2017
Scale: AS SHOWN

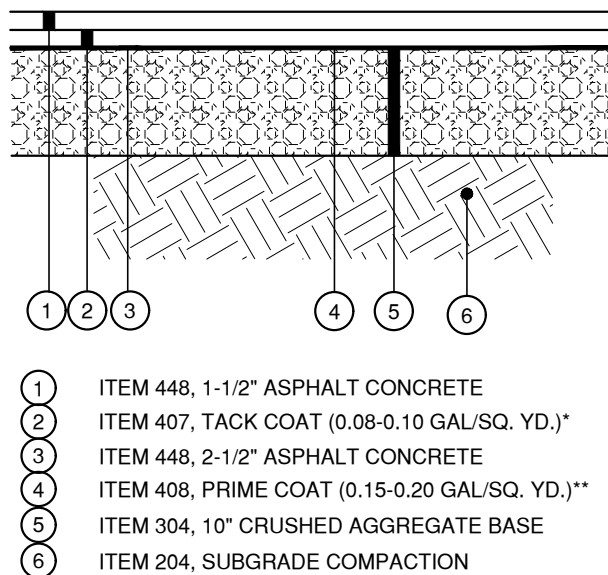
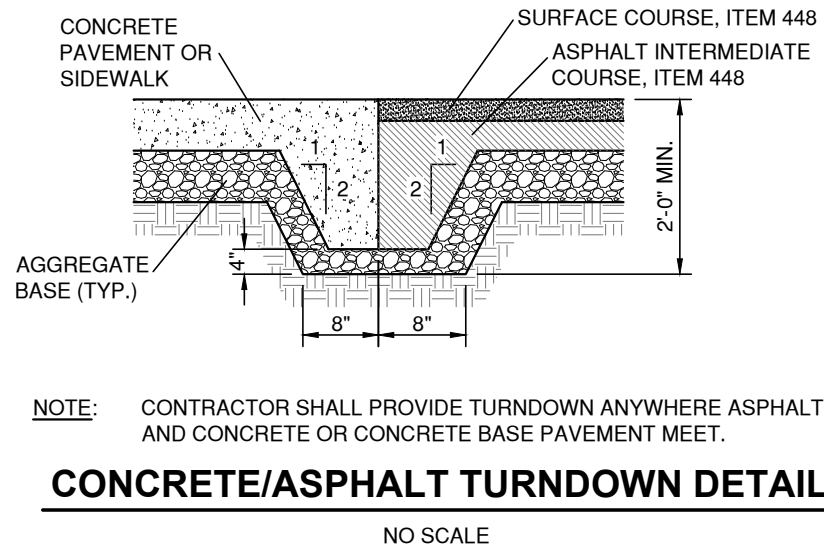
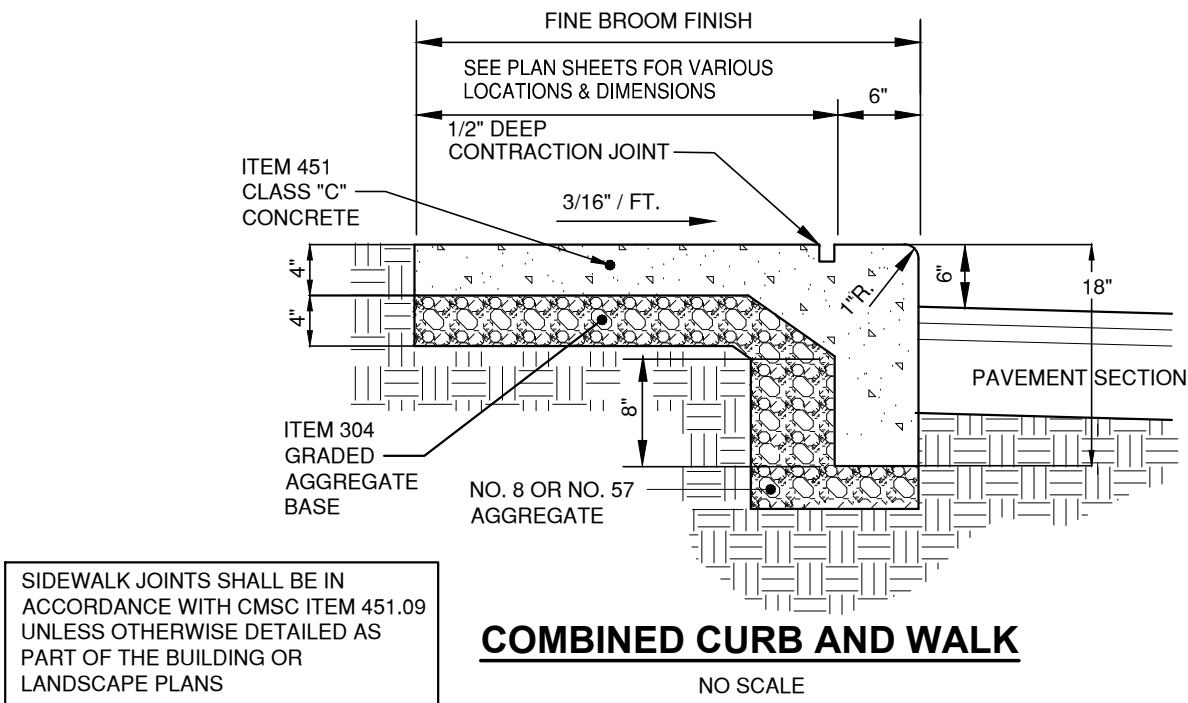
Drawn By: AWG
Checked By: ASH

Project Number:
17-071-02

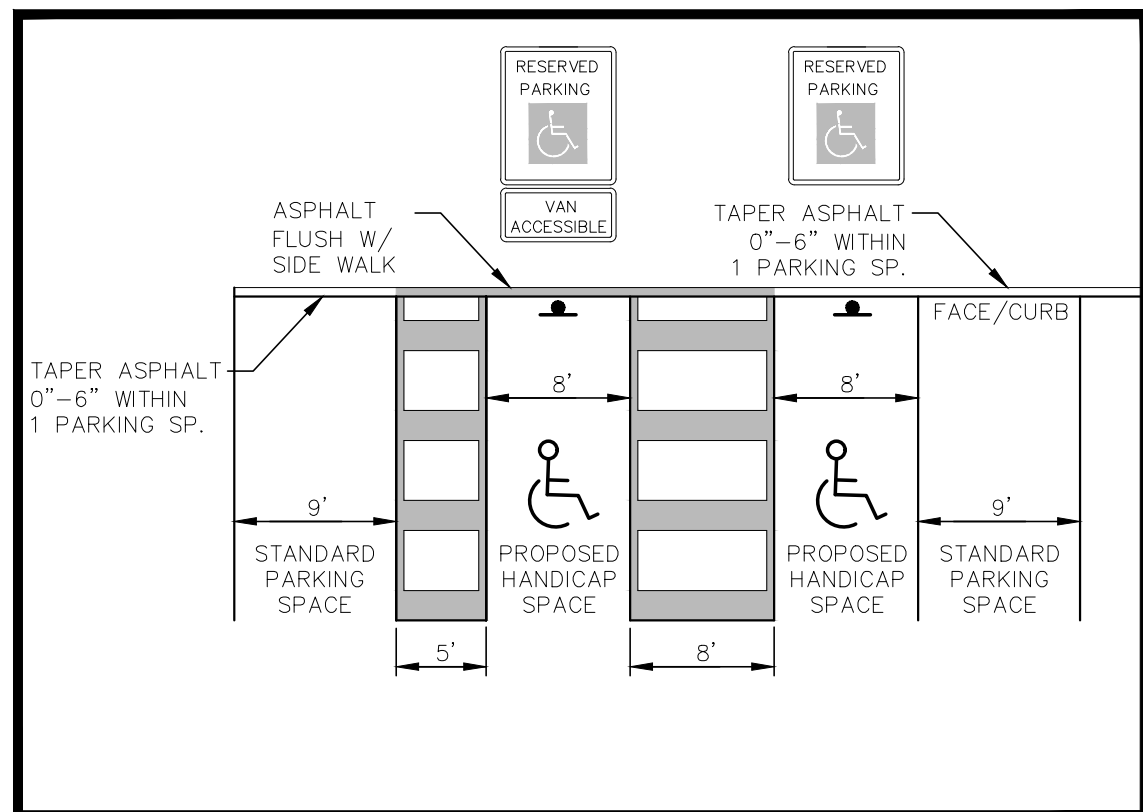
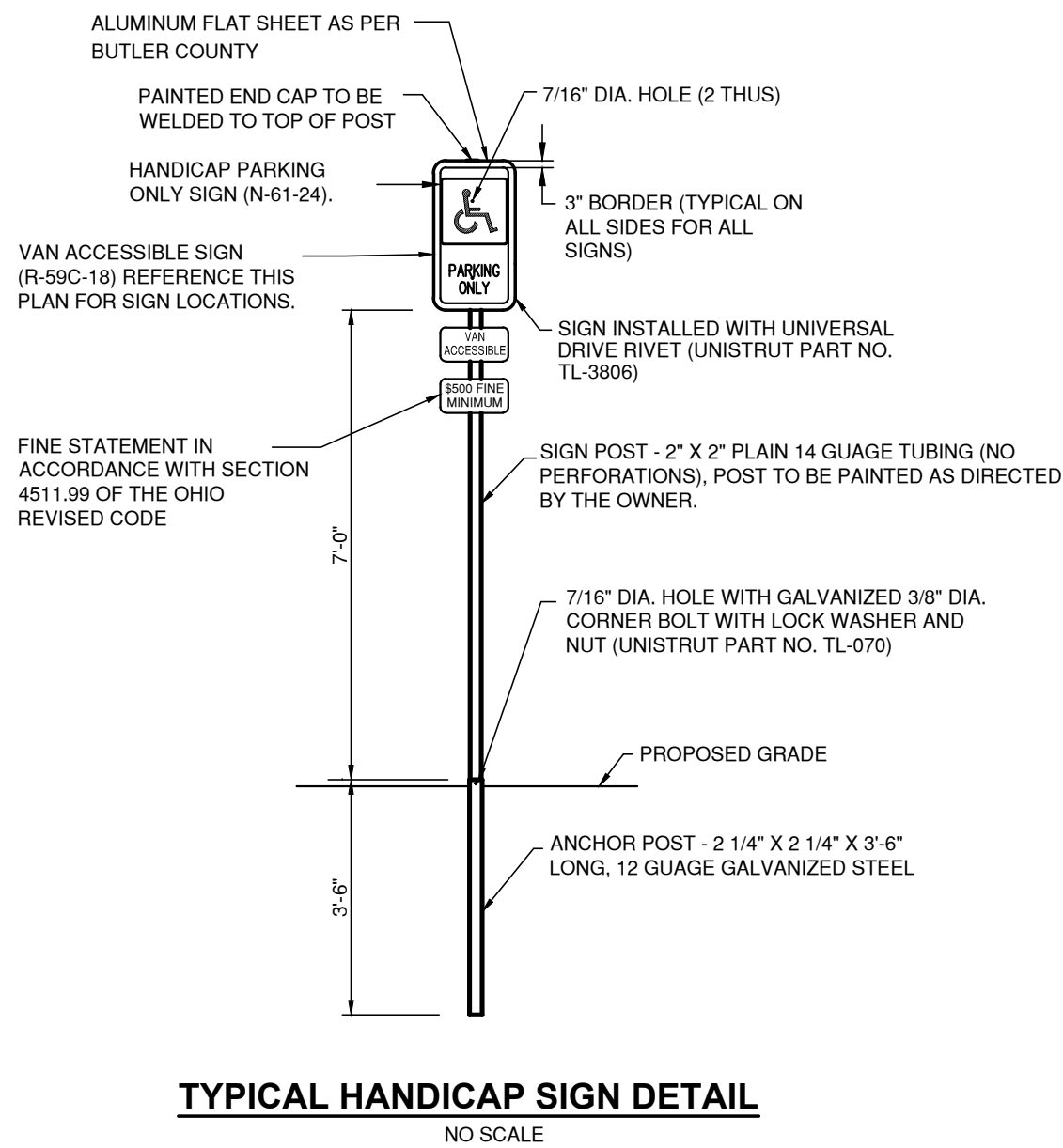
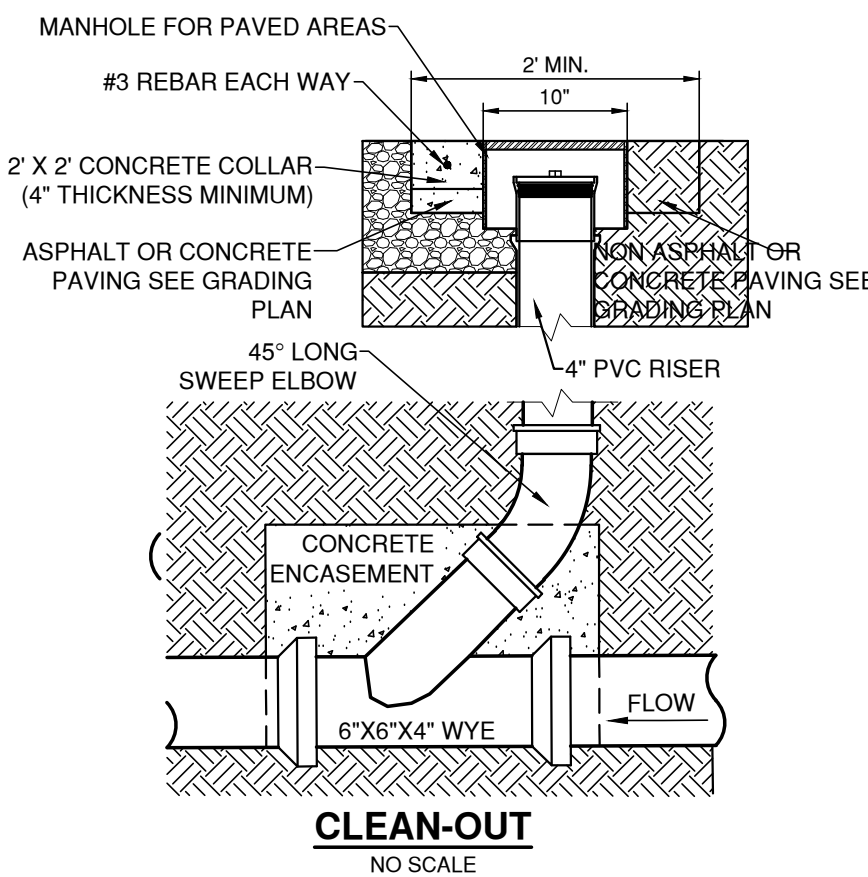
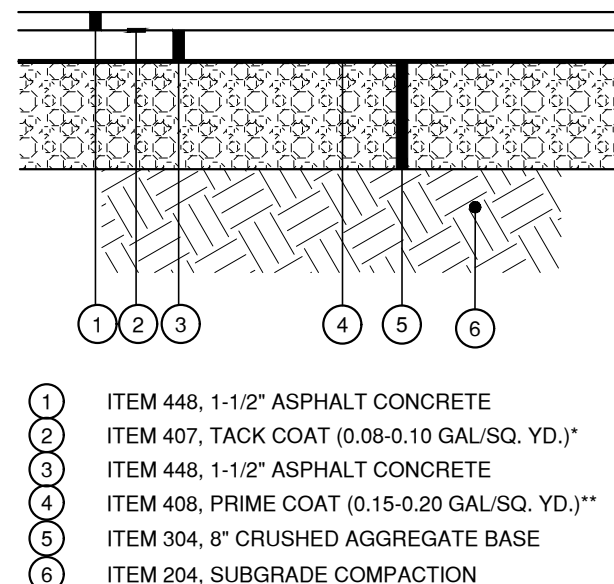
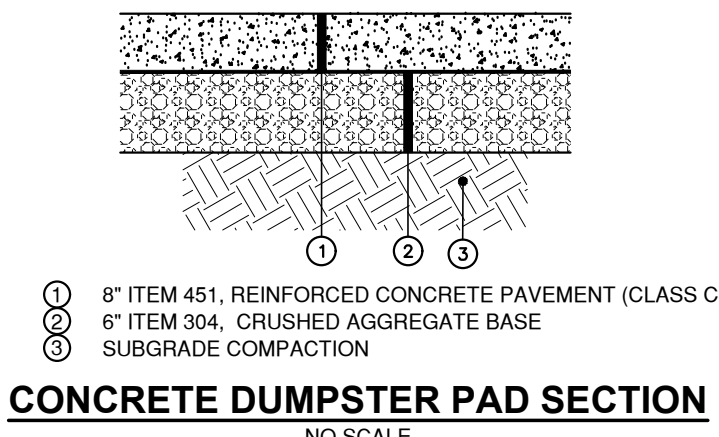
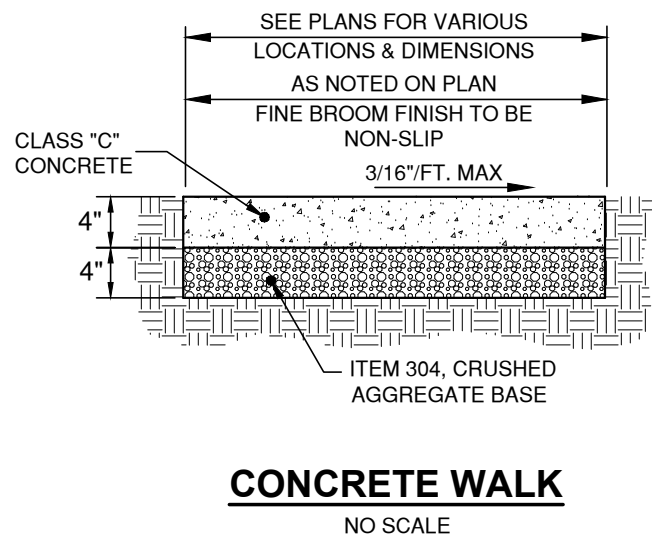
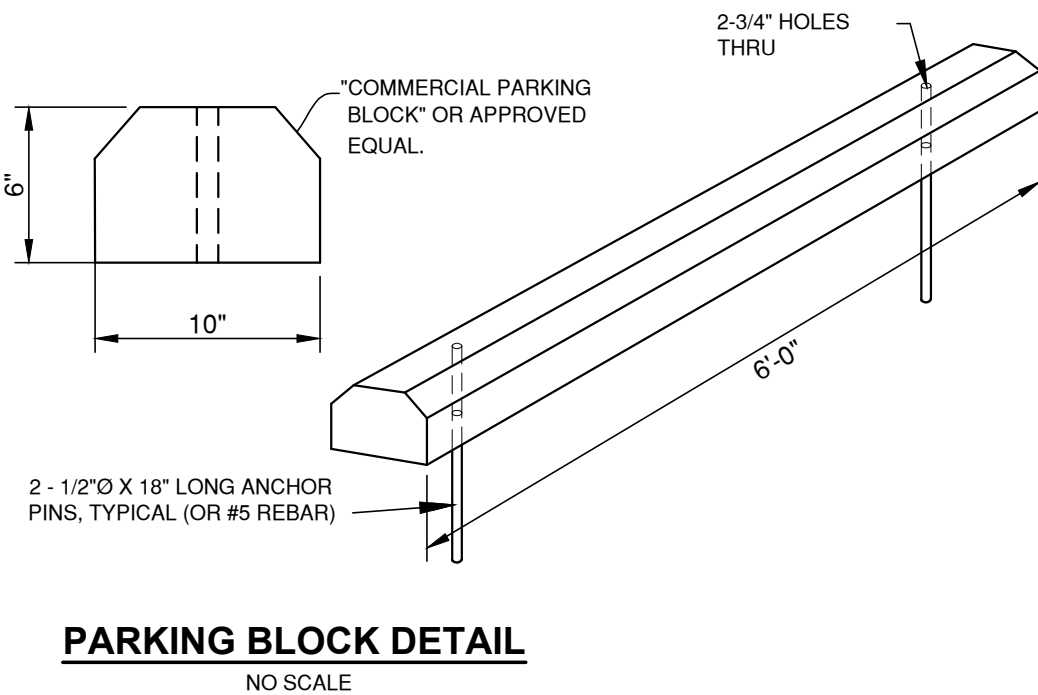
Drawing Number:

C-4

W:\GandeeHeydingerGroup\Civil_3D Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester, OH\DWG\SITE CONSTRUCTION\17-071-02 DETAILS.dwg Layout1 Nov 10, 2017 2:37:43pm apolten



- * : THE TACK COAT MAY BE ELIMINATED IF THE INTERMEDIATE COURSE IS CLEAN AND THE SURFACE IS PLACED IMMEDIATELY FOLLOWING THE PLACEMENT OF THE INTERMEDIATE COURSE.
- ** : THE PRIME COAT MAY BE ELIMINATED IF GRAVEL CAN BE COVERED IN LESS THAN 7 DAYS AND IF NO WET WEATHER IS ANTICIPATED.



- NOTES:
1. VERIFY WITH OWNERS ANY SPECIAL SIGNAGE/STRIPING REQUIREMENTS.
 2. ALL REGULATORY SIGNS AND TRAFFIC CONTROL SIGNS SHALL COMPLY WITH THE OHIO MANUAL OF UNIFORM TRAFFIC AND CONTROL DEVICES FOR STREET AND HIGHWAYS, AS WELL AS STATE, AND LOCAL REQUIREMENTS.
 3. THE SUPPORT MANUFACTURER SHALL CERTIFY THAT THE SIGN POST, AND PARTS FURNISHED MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 4. HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REQUIREMENTS.

PLAN PREPARED FOR:



PLAN PREPARED BY:



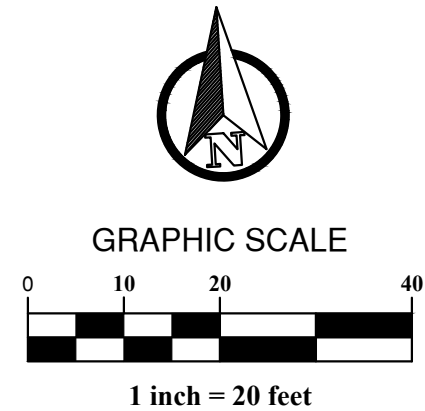
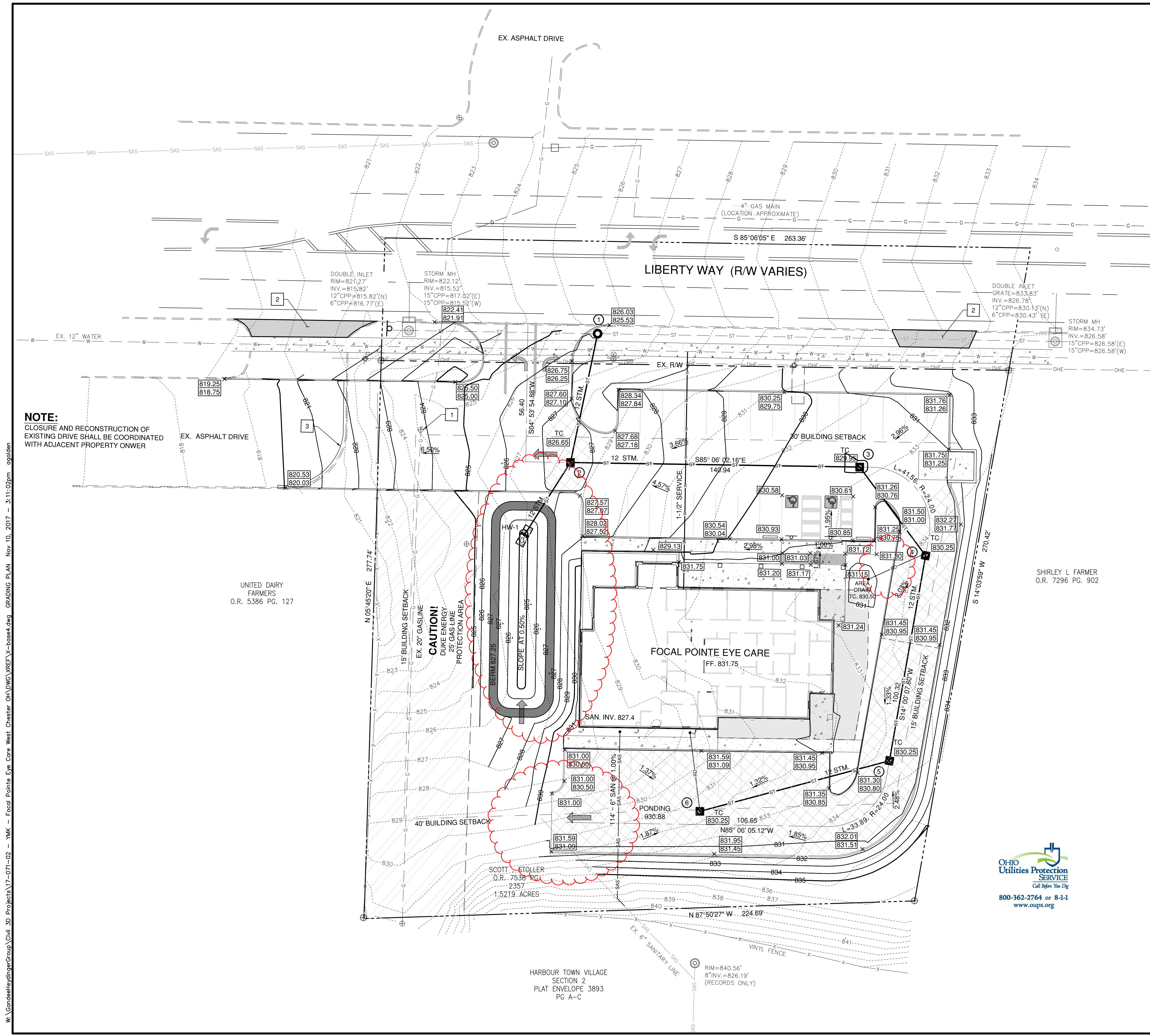
642 BROOKSEDGE BLVD.
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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SITE DETAILS

NO.	DATE	REVISION DESCRIPTION

SEAL	
Date: 11-6-2017 Scale: AS SHOWN	
Drawn By: AWG	Checked By: ASH
Project Number: 17-071-02	
Drawing Number: C-5	

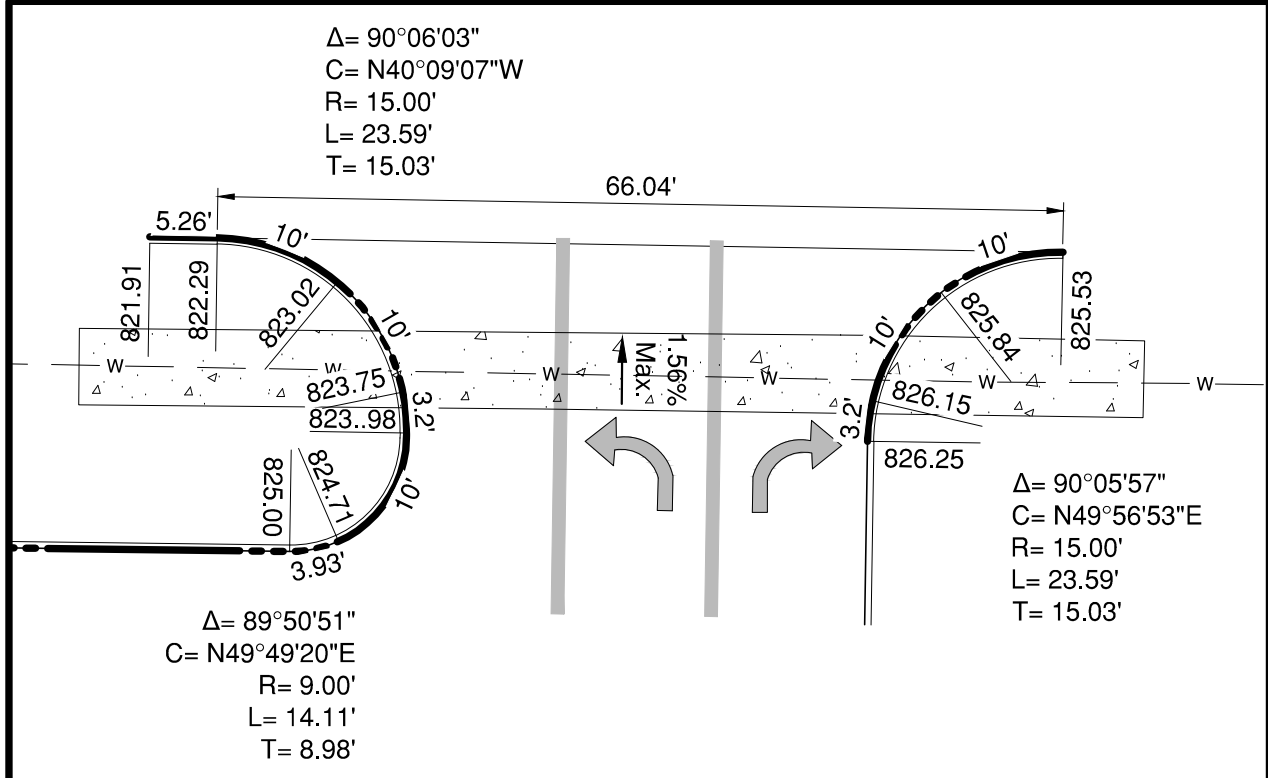
Permit Set
November 6, 2017



100 YEAR DETENTION TABLE			
DESCRIPTION	VOL. REQUIRED (cf)	VOL. PROVIDED (cf)	ELEVATION
CB-2	-	-	-
CB-3	-	-	-
CB-4, CB-5 & CB-6	-	-	-
UNDERGROUND DET.	-	-	-

LEGEND	
--- 825 ---	EXISTING CONTOUR
— 825 —	PROPOSED CONTOUR
TC 00.00	TOP OF CASTING ELEVATION
826.50	TOP OF CURB ELEVATION
826.00	TOP OF PAVEMENT OR GROUND SURFACE
826.0	EXISTING TOP OF PAVEMENT OR GROUND SURFACE
— S —	PROPOSED STORM SEWER
— SA —	PROPOSED SANITARY SERVICE
— W —	PROPOSED WATER SERVICE
— W —	EXISTING WATER
— ST —	EXISTING STORM SEWER
— SA —	EXISTING SANITARY SEWER MAIN
— WA —	EXISTING WATERLINE
—>—	SURFACE FLOW ARROW
←	MAJOR FLOOD ROUTING
825	100 YEAR PONDING LIMITS

- KEYED NOTES**
- 1 FIELD VERIFY EXISTING GAS LINE MARKER, ANY GRADING IN THIS AREA SHALL BE SUPERVISED BY A DUKE ENERGY CERTIFIED INSPECTOR.
 - 2 EXISTING CONCRETE APPROACH TO BE REMOVED AND REPLACED WITH STANDARD CURB AND GUTTER & GRASS STRIPE AS PER BUTLER COUNTY STANDARDS.
 - 3 FULL DEPTH PAVEMENT SAWCUT AND HEAT WELD



DRIVE ENTRANCE DETAIL
SCALE: NONE

Permit Set
November 6, 2017

PLAN PREPARED FOR:



PLAN PREPARED BY:



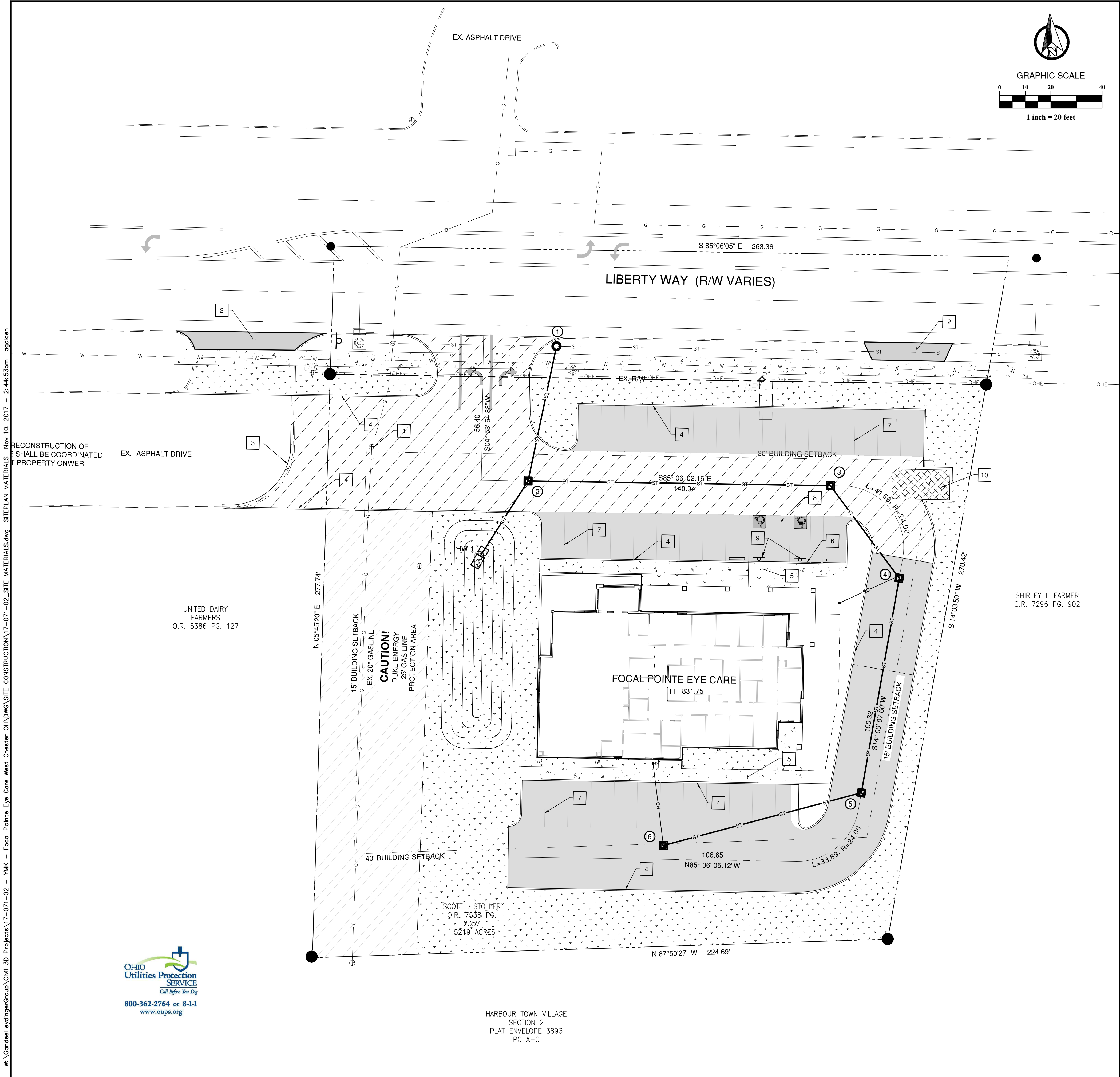
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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SITE GRADING & UTILITY PLAN

NO.	DATE	REVISION DESCRIPTION

SEAL	
Date: 11-6-2017 Scale: AS SHOWN	
Drawn By: AWG	Checked By: ASH
Project Number: 17-071-02	
Drawing Number: C-6	

W:\GandeeHeydingerGroup\Civil_3D Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester OH\DWG\SITE CONSTRUCTION\17-071-02 SITE MATERIALS.dwg SITEPLAN MATERIALS Nov 10, 2017 - 2:44:53pm aglden



SITE NOTES

- 1 FIELD VERIFY EXISTING GAS LINE MARKER. ANY GRADING IN THIS AREA SHALL BE SUPERVISED BY A DUKE ENERGY CERTIFIED INSPECTOR.
- 2 EXISTING CONCRETE APPROACH TO BE REMOVED AND REPLACED WITH STANDARD CURB AND GUTTER & GRASS STRIPE AS PER BUTLER COUNTY STANDARDS.
- 3 FULL DEPTH PAVEMENT SAWCUT AND HEAT WELD
- 4 6" CONCRETE CURB. SEE DETAIL SHEET 5.
- 5 ONSITE CONCRETE SIDEWALK. SEE DETAIL SHEET 5.
- 6 CONCRETE/ASPHALT TURNDOWN, SEE DETAIL SHEET 5.
- 7 PAVEMENT STRIPING, PER ITEM 642
- 8 ACCESSIBLE PARKING SPACES. SEE DETAIL SHEET 5.
- 9 ACCESSIBLE PARKING SIGNS. SEE DETAIL SHEET 5.
- 10 TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS

LEGEND

- | | | | |
|--|--|--|---|
| | CONCRETE SIDEWALK
SEE SHEET 5 DETAIL | | DUMPSTER PAD
SEE SHEET 6 DETAIL |
| | HEAVY DUTY ASPHALT
SEE SHEET 5 DETAIL | | STANDARD DUTY ASPHALT
SEE SHEET 5 DETAIL |
| | LANDSCAPE AREA
SEE SHEET 5 DETAIL | | |

NOTE:

THE PROPOSED PROJECT WILL COMPLY WITH SECTIONS 3312 AND 3321 OF THE COLUMBUS CITY CODE.

PLAN PREPARED FOR:



PLAN PREPARED BY:

GHD
Gandee Heydinger Group
Civil Engineering & Energy Services
642 BROOKSEdge BLVD.
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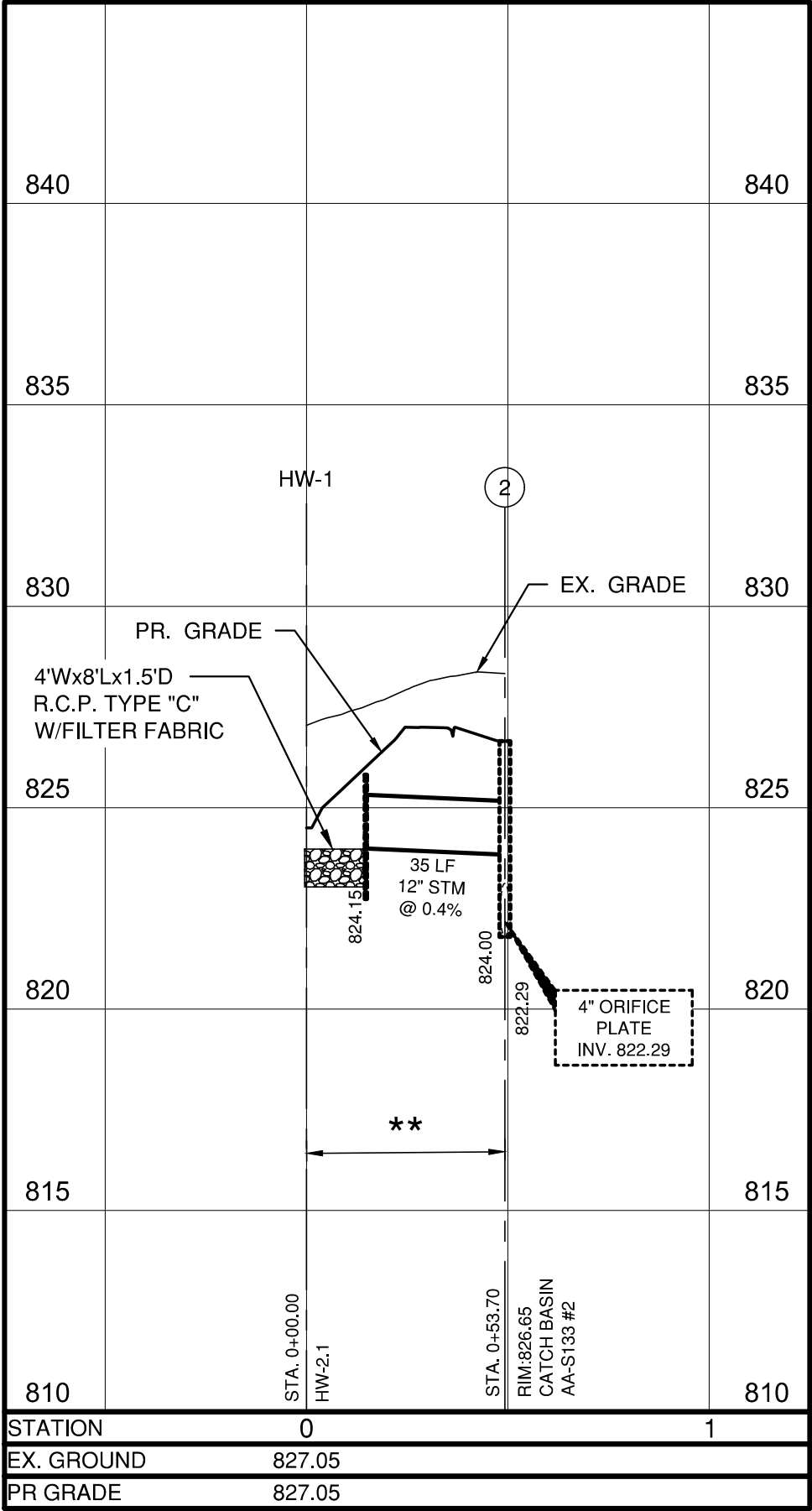
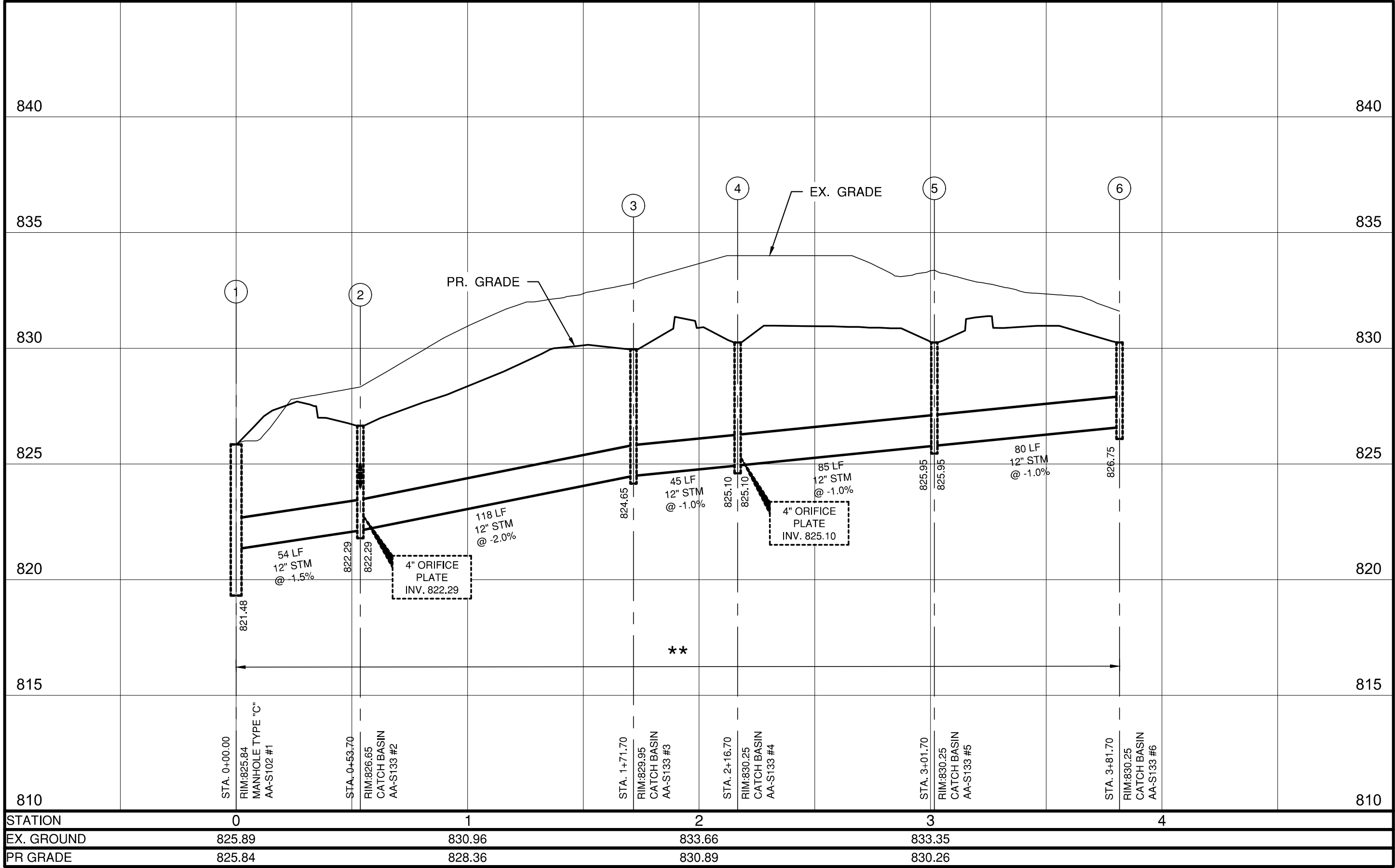
CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SITE MATERIALS PLAN

NO.	DATE	REVISION DESCRIPTION

SEAL	
Date: 11-6-2017 Scale: AS SHOWN	
Drawn By: AWG	Checked By: ASH
Project Number: 17-071-02	
Drawing Number: C-7	

Permit Set
November 6, 2017

W:\GandeeHeydingerGroup\Civil_3D Projects\17-071-02 - NYK - Focal Pointe Eye Care West Chester OH\DWG\REF\X-base.dwg PROFILES Nov 21, 2017 - 4:03:56pm apolden



ALL TRENCH BACKFILL SHALL BE COMPACTED BACKFILL TO 98% OF MAXIMUM DRY WEIGHT AT OPTIMUM MOISTURE CONTENT ($\pm 3\%$) UNLESS NOTED AS:

* : COMPACTED BACKFILL, ITEM 611

** : GRANULAR BACKFILL, ITEM 304 AND 611

Permit Set
November 6, 2017

PLAN PREPARED FOR:

FOCAL POINTE
eye care

PLAN PREPARED BY:

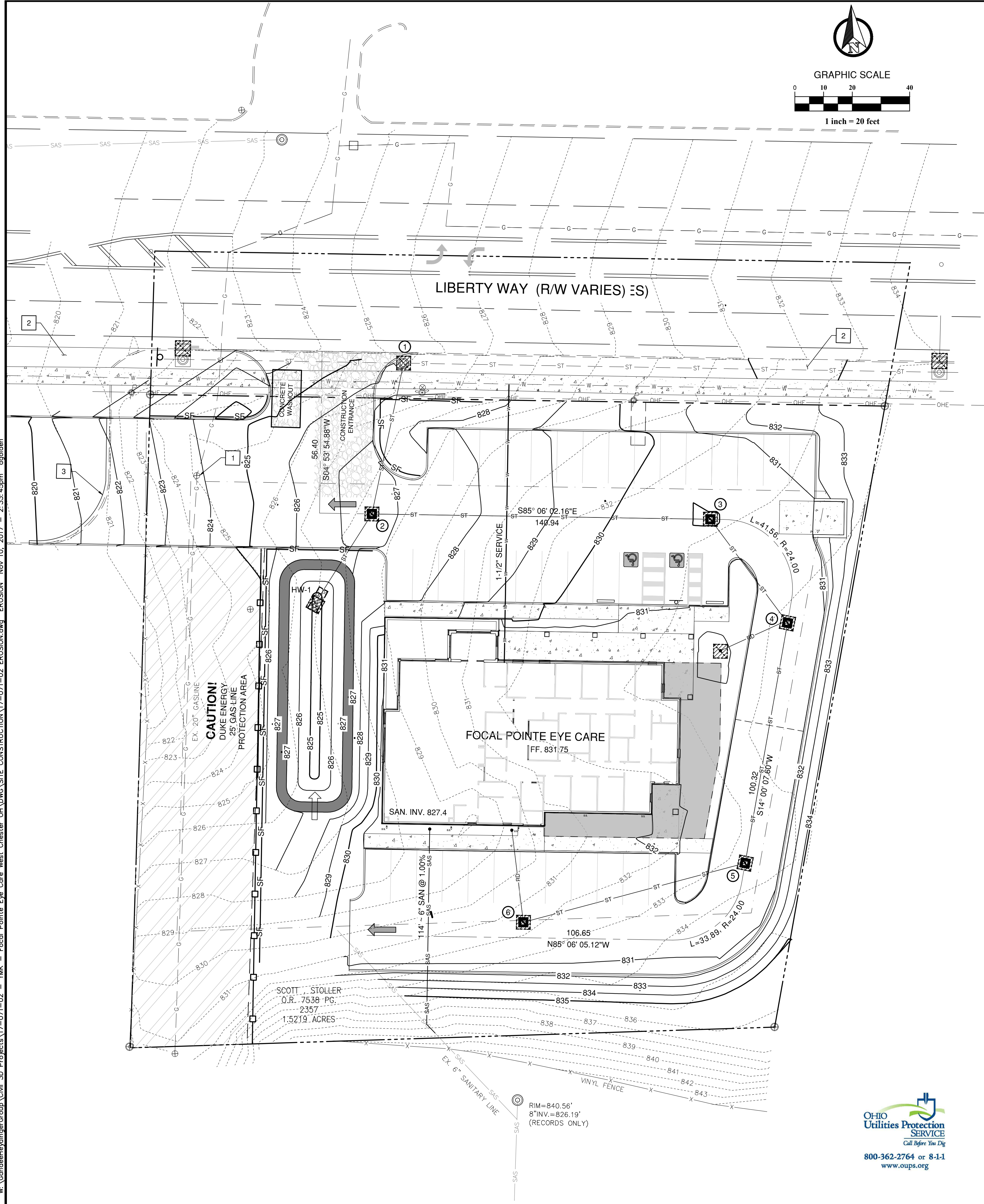
GHD
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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
STORM SEWER PROFILES

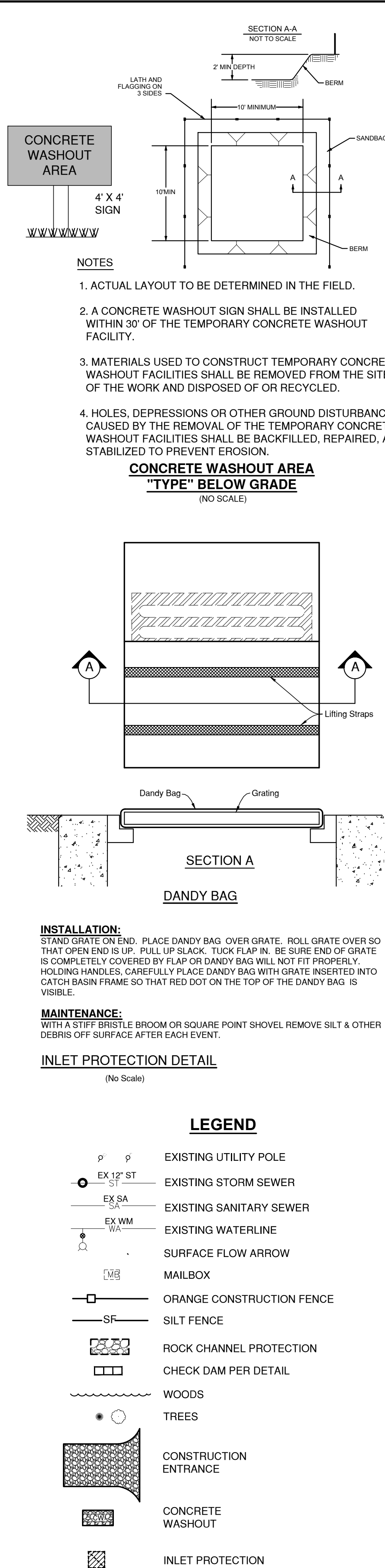
NO.	DATE	REVISION DESCRIPTION

SEAL
Date: 11-6-2017
Scale: AS SHOWN
Drawn By: AWG
Checked By: ASH
Project Number:
17-071-02
Drawing Number:
C-8

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OHIO
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SERVICE
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www.oups.org



CONSTRUCTION ENTRANCE

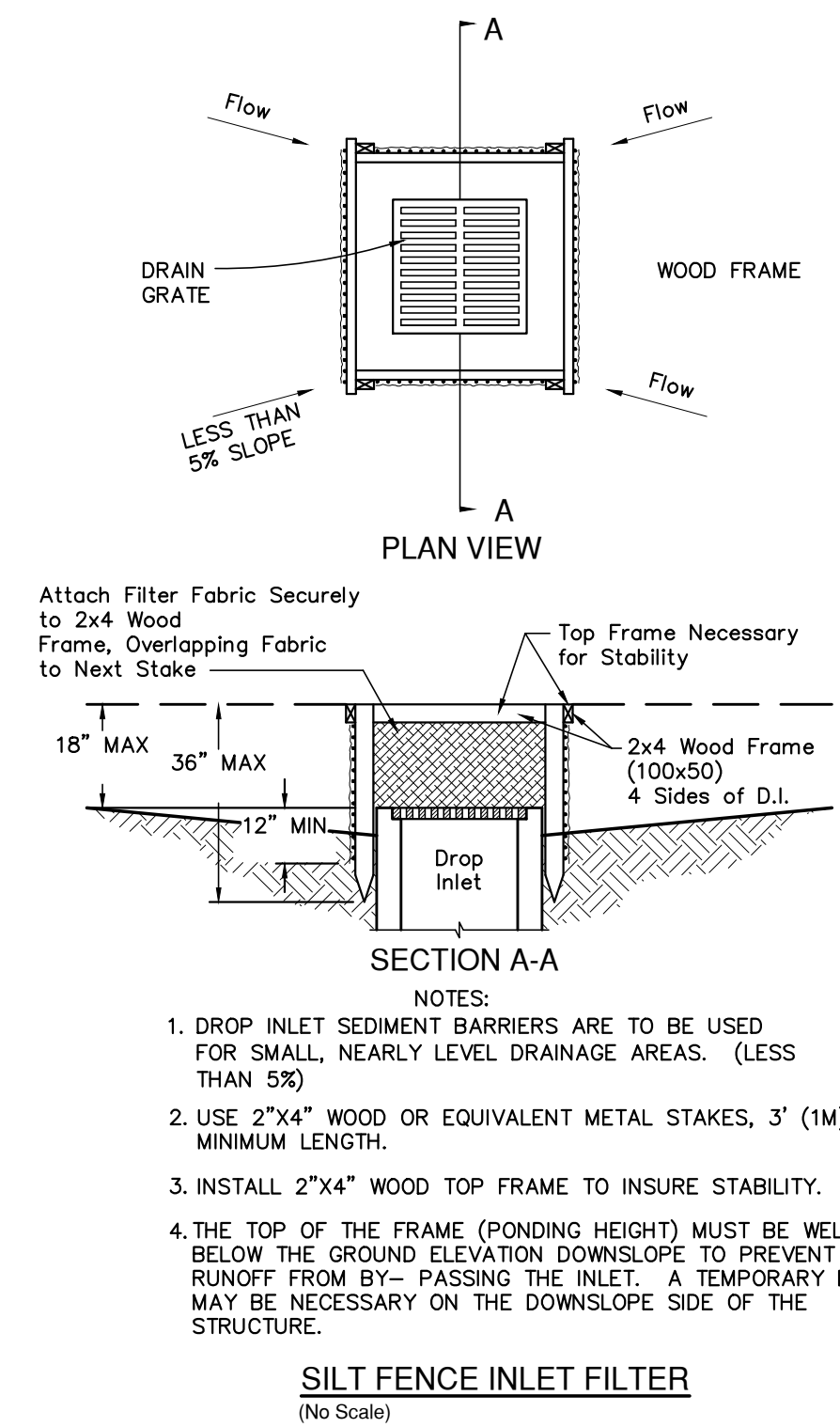
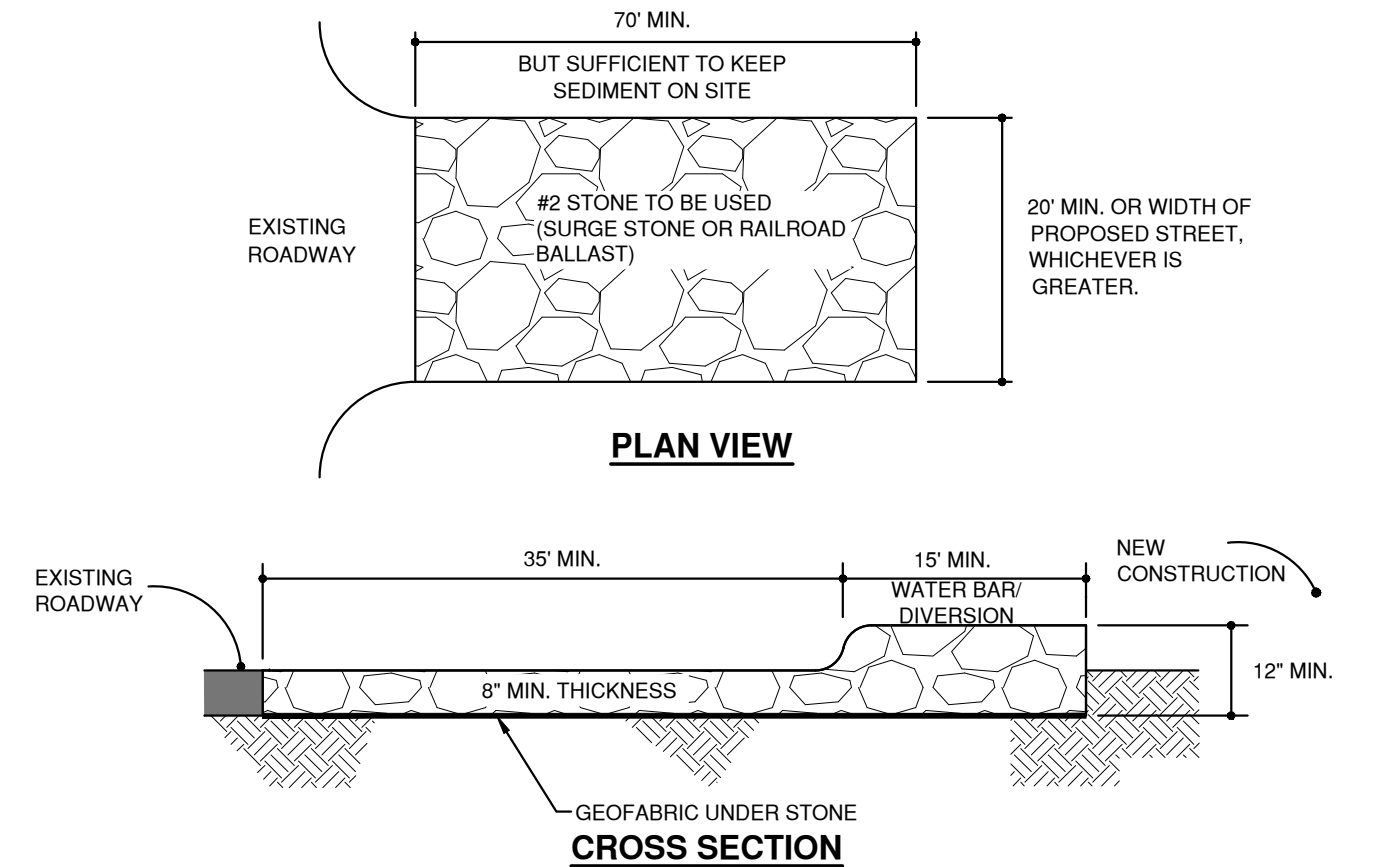
SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.

WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROL AREA.

INSPECTION AND MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY. PERIODIC STREET CLEANING MAY BE REQUIRED AND SHOULD BE INCLUDED IN THE BID PRICE FOR ITEM 207, EROSION AND SEDIMENT CONTROL.

THIS CONSTRUCTION SHALL INCLUDE ALL MATERIALS AND COSTS RELATIVE TO CONSTRUCTING, MAINTAINING, REMOVAL AND RESTORATION OF STABILIZED ENTRANCE WITHIN THE VARIOUS CONSTRUCTION ITEMS.

WATER BAR - A WATER BAR SHALL BE CONTSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE TO PREVENT RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.



- NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
 2. USE 2"x4" WOOD OR EQUIVALENT METAL STAKES, 3' (1M) MINIMUM LENGTH.
 3. INSTALL 2"x4" WOOD TOP FRAME TO INSURE STABILITY.
 4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY- PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

SILT FENCE INLET FILTER
(No Scale)

PLAN PREPARED FOR:



PLAN PREPARED BY:

GHG
Gandee Heydinger Group
Civil Engineering & Energy Services

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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SEDIMENT & EROSION
CONTROL PLAN

REVISION DESCRIPTION

DATE

NO.

SEAL

Date: 11-6-2017
Scale: AS SHOWN

Drawn By: AWG
Checked By: ASH

Project Number:
17-071-02

Drawing Number:

Permit Set
November 6, 2017

C-9

w:\GandeeHeydingerGroup\Civil_3D_Projects\17-071-02 - YMK - Focal Pointe Eye Care West Chester, OH\DWG SITE CONSTRUCTION\17-071-02-EROSION.dwg EROSION NOTES Nov 10, 2017 - 2:33:55pm agolden

SITE SWP3 (OHIO EPA PERMIT OHC000004)

A. DESCRIPTION OF NATURE AND TYPE OF CONSTRUCTION ACTIVITY:

THE PROPOSED IMPROVEMENTS INCLUDE THE IMPROVEMENT OF AN EXISTING UNDEVELOPED PARCEL INTO AN EYE CARE OFFICE BUILDING. IMPROVEMENTS INCLUDE DRIVE AND PARKING AREAS, STORM WATER MANAGEMENT INFRASTRUCTURE, PRIVATE WATER AND SANITARY SERVICES, AND OTHER PRIVATE UTILITIES.

B. TOTAL SITE AREA AND TOTAL AREA TO BE DISTURBED:

THE TOTAL SITE ACREAGE IS: 1.5219 ACRES
DISTURBED AREA: 1.0 ACRES

C. ESTIMATE OF IMPERVIOUS AREA AND PERCENT IMPERVIOUS AREA CREATED BY CONSTRUCTION ACTIVITY:

THE PRE DEVELOPED IMPERVIOUS AREAS ARE: 1.22 AC'S

ESTIMATED POST DEVELOPED IMPERVIOUS AREAS AREA: 0.71 AC'S

D. RUNOFF COEFFICIENTS FOR BOTH PRE-CONSTRUCTION AND POST CONSTRUCTION SITE CONDITIONS:

THE PRE-DEVELOPED CONDITION IS OPEN SPACE GRASS FIELDS.
PRE-DEVELOPED CURVE NUMBER IS 74.

THE POST-DEVELOPED CONDITIONS WILL BE GRASS COVER, BUILDINGS, AND PAVEMENT AREAS WITH CORRESPONDING CURVE NUMBER IS 91.

E. EXISTING SOIL DATA AND QUALITY OF DISCHARGE FROM THE SITE:

THE QUALITY OF THE EXISTING DISCHARGE FROM THE SITE IS NOT KNOWN.

F. DESCRIPTION OF PRIOR LAND USES ON THE SITE:

THE SITE IS CURRENTLY AN EXISTING AN EMPTY SURROUNDED BY OPEN SPACE, SERVICE STATION & HOMES.

G. SEQUENCE OF CONSTRUCTION ACTIVITIES:

OBTAIN PROPER PERMITS AND APPROVALS: BUTLER COUNTY AND OHIO EPA.

CONDUCT A PRE-CONSTRUCTION MEETING AND ESTABLISH A STAGING AREA.

PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL PLACE THE NECESSARY BEST MANAGEMENT PRACTICES AS LISTED IN THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL OR CONTAINED WITHIN THIS PLAN(SILT FENCE, CHECK DAMS, DIVERSION SWALES, AND BASINS PER DETAILS)

CONTRACTOR SHALL INSTALL STORM SEWERS, POST-CONSTRUCTION EROSION CONTROL, AND BMP'S AS REQUIRED. PROVISIONS FOR INLET PROTECTION SHALL BE PLACED ON ALL STORM INLETS.

PERFORM ANY NECESSARY GRADING ACTIVITIES. DISTURBED AREAS SHALL BE SEEDED WITHIN 7 DAYS OF CONSTRUCTION. DRAINAGE SHALL BE DIRECTED TO A FILTERING FACILITY AT ALL TIMES DURING CONSTRUCTION. TOPSOIL SHALL BE STOCKPILED FOR LATER RE-SPREAD IN LOCATIONS SHOWN HEREON OR HAULED OFFSITE.

COMPLETE ANY FINE GRADING, DITCH OR BERM GRADING, AND STABILIZE THESE AREAS.

INSTALL PAVEMENT SECTIONS AND MARKINGS, BEGIN BUILDING CONSTRUCTION, AND INSTALLATION OF PRIVATE UTILITIES.

SEED AND MULCH THE SITE ACCORDING TO THE TEMPORARY AND PERMANENT SEEDING REQUIREMENTS TO REESTABLISH THE DENUIDED AREAS.

CONTACT CITY OF COLUMBUS TO COMPLETE A FINAL ACCEPTANCE OF PROJECT.

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR SEEDED/MULCHED. AFTER REMOVAL OF THE EROSION CONTROL DEVICES, THE CONTRACTOR SHALL CLEAN ALL INLETS AND STORM SEWER PIPES OF ALL SEDIMENT INCURRED DURING CONSTRUCTION.

H. NAME AND LOCATION OF THE IMMEDIATE RECEIVING STREAM OR SURFACE WATER(S) AND THE FIRST SUBSEQUENT NAMED RECEIVING WATER. THE DESCRIPTION OF WETLANDS OR OTHER SPECIAL AQUATIC SITES AT OR NEAR THE SITE WHICH WILL BE DISTURBED OR WHICH WILL RECEIVE DISCHARGES FROM DISTURBED AREAS OF THE SITE:

THE SITE CURRENTLY DRAINS TO _____

I. INDIVIDUAL LOT EROSION CONTROL PRACTICES, IF APPLICABLE:

CONSTRUCTION SEDIMENT TO BE CONTROLLED ONSITE.

J. BEST MANAGEMENT PRACTICES FOR DEDICATED ASPHALT OR CONCRETE PLANTS, IF APPLICABLE:

NO ASPHALT OR CONCRETE PLANTS WILL BE MAINTAINED ON THIS SITE.

K. PERMIT REQUIREMENTS

OHIO EPA PERMIT NO. OHC00004
ISSUED PERMIT: SUBMITTED _____

L. PROJECT NAME AND PROJECT CONTACT INFORMATION

PROJECT NAME: FOCAL POINT OPTICAL
PROJECT LOCATION: 7227 LIBERTY WAY
WEST CHESTER, OH 45069

ENGINEER

GANDEE HEYDINGER GROUP
642 BROOKSEGE BLVD
WESTERVILLE, OH 43081
ATTN: ANTHONY GOLDEN
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OWNER

LIZ & MICHAEL LYONS
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ARCHITECT

FAZIO ARCHITECTS
308 E CONGRESS AVENUE
AUSTIN, TX. 78701
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L. LOG DOCUMENTING ONSITE GRADING AND STABILIZATION ACTIVITIES

A LOG WILL BE KEPT ONSITE FOR REVIEW UPON REQUEST.

K. SITE MAP CHECKLIST:

- MAP SHOWING LIMITS OF EARTH DISTURBING ACTIVITY ONSITE INCLUDING ASSOCIATED OFF-SITE BORROW OR SPOIL AREAS THAT ARE NOT ADDRESSED BY A SEPARATE NOI AND ASSOCIATED SWP3.
- SOILS TYPES SHOULD BE DEPICTED FOR ALL AREAS OF THE SITE, INCLUDING LOCATIONS OF UNSTABLE OR HIGHLY ERODIBLE SOILS.
- EXISTING AND PROPOSED CONTOURS: A DELINEATION OF DRAINAGE WATERSHEDS EXPECTED DURING AND AFTER MAJOR GRADING ACTIVITIES AS WELL AS THE SIZE OF EACH DRAINAGE WATERSHED, IN ACRES.
- SURFACE WATER LOCATIONS INCLUDING SPRINGS, WETLANDS, STREAMS, LAKES, WATER WELLS, ETC., ON OR WITHIN 200 FEET OF THE SITE, INCLUDING THE BOUNDARIES OF WETLANDS OR STREAM CHANNELS AND FIRST SUBSEQUENT NAMED RECEIVING WATER(S) THE PERMITTEE INTENDS TO FILL OR RELOCATE FOR WHICH THE PERMITTEE IS SEEKING APPROVAL FROM THE ARMY CORPS OF ENGINEERS AND/OR OHIO EPA.
- EXISTING AND PLANNED LOCATIONS OF BUILDING, ROADS, PARKING FACILITIES, AND UTILITIES.
- THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL PRACTICES, INCLUDING THE LOCATION OF AREAS LIKELY TO REQUIRE TEMPORARY STABILIZATION DURING THE COURSE OF SITE DEVELOPMENT.
- SEDIMENT AND STORM WATER MANAGEMENT BASIN INFORMATION
- LOCATION OF PERMANENT STORM WATER MANAGEMENT FACILITIES TO CONTROL POLLUTANTS IN STORM WATER ONCE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
- AREAS DESIGNATED FOR STORAGE OR DISPOSAL OF SOLID, SANITARY AND TOXIC WASTES, INCLUDING DUMPSTER AREAS, AREAS DESIGNATED FOR CEMENT TRUCK WASHOUT, AND VEHICLE REFUELING.
- LOCATION OF CONSTRUCTION ENTRANCE.
- LOCATION OF ANY IN-STREAM ACTIVITIES INCLUDING STREAM CROSSINGS
- NOT APPLICABLE ON THIS PLAN.

CONTRACTOR RESPONSIBILITIES

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE U.S.S. MANUAL "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS." THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT THE EARTH MOVING ACTIVITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE CURRENT STORM WATER POLLUTION PREVENTION PLAN IMMEDIATELY AVAILABLE OR POSTED ON SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE CLEANED UP DAILY.

MAINTENANCE & INSPECTIONS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT A SITE INSPECTION EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" RAINFALL EVENT. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.

1. IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT. IF ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON THE SITE.

2. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH OEPA CLEAN FILL POLICY.

3. CLEAN FILL IS DEFINED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT (NOT INCLUDING MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE), AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON RECEIVING WATERS UNLESS OTHERWISE AUTHORIZED.

4. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTIONS AND/OR REVIEW OF PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE.

5. FILL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH OEPA'S MUNICIPAL OR RESIDENTIAL WASTE REGULATIONS.

RECYCLING AND DISPOSAL METHODS

PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE SHALL BE UNDERTAKEN IN ACCORDANCE WITH EPA REGULATIONS.

A DESIGNATED CONCRETE WASH-OUT AREA SHALL BE PROVIDED ON SITE. MEASURES SHALL BE TAKEN TO CONTAIN ALL WASH-OUT WATER. UPON COMPLETION OF CONSTRUCTION WASH-OUT AREA SHALL BE REMOVED. ANY EXCESS CONCRETE SHALL BE DISPOSSED OF PROPERLY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY FACILITIES FOR WORKERS AND INSPECTORS AT ALL TIMES. ALL CONSTRUCTION WASTE SUCH AS EXCESS SOIL, BUILDING MATERIALS, LITTER, SHALL BE CONTAINED AND DISPOSSED OF PROPERLY. WHENEVER POSSIBLE, EXCESS MATERIAL SHALL BE RE-USED OR RECYCLED, RATHER THAN DISPOSSED OF.

DUST CONTROL

METHODS TO MINIMIZE AND CONTROL EROSION AND DUST FROM WIND. METHODS INCLUDE APPLYING WATER, USE OF DUST PALLIATIVES, AND COVERING STOCKPILES. SUITABLE FOR CONSTRUCTION ACTIVITIES THAT INVOLVE: VEHICLES TRAVELING ON UNPAVED ROADWAYS, DRILLING AND BLASTING; FINAL GRADING; SITE STABILIZATION; SOIL AND DEBRIS PILES; UNSTABILIZED SOILS; OR HAVE PROBLEMS RELATED TO BATCH DROP FROM FRONT-END LOADERS AND SEDIMENT TRACKING.

WATERING PREVENTS DUST ONLY FOR A SHORT PERIOD OF TIME AND MAY NEED TO BE APPLIED DAILY OR MORE OFTEN TO BE EFFECTIVE. EFFECTIVENESS DEPENDS ON SOIL, TEMPERATURE, HUMIDITY, AND WIND VELOCITY. OVER WATERING MAY CAUSE EROSION. GENERALLY, OIL OR OIL-TREATED SUBGRADE SHOULD NOT BE USED BECAUSE THE OIL MAY MIGRATE INTO DRAINAGEWAYS AND/OR SEEP INTO THE SOIL. CHEMICALLY TREATED SUBGRADE SOILS CAUSE THE SOIL TO BE WATER REPELLENT AND INTERFERE WITH RE-VEGETATION. SOME CHEMICAL DUST SUPPRESSANTS MAY BE SUBJECT TO FREEZING AND SOME MAY CONTAIN SOLVENTS AND MUST BE HANDLED PROPERLY. IN COMPACTED AREAS, WATERING AND OTHER LIQUID DUST CONTROL MEASURES MAY WASH SEDIMENT INTO THE STORMWATER DRAINAGE SYSTEM. ASPHALT, AS A MULCH TACK OR CHEMICAL MULCH, REQUIRES A 24-HOUR CURING TIME TO AVOID STICKING TO EQUIPMENT, SHOES, ETC. LOOSE ASPHALT AND ASPHALT MULCH MAY EVENTUALLY MIGRATE TO THE DRAINAGE SYSTEM. IN COMPACTED AREAS, WATERING OR OTHER LIQUID DUST CONTROL MEASURES MAY WASH SEDIMENT OR OTHER CONSTITUENTS INTO THE DRAINAGE SYSTEM.

WATER SHOULD BE APPLIED BY MEANS OF PRESSURE-TYPE DISTRIBUTORS OR PIPELINES EQUIPPED WITH A SPRAY SYSTEM THAT ENSURE EVEN DISTRIBUTION. SPRAY EQUIPMENT SHOULD BE EQUIPPED WITH POSITIVE FLOW SHUT-OFF SYSTEMS. UNLESS SUPPLIED BY PIPELINES, AT LEAST ONE MOBILE UNIT SHOULD BE AVAILABLE AT ALL TIMES TO APPLY WATER OR DUST PALLIATIVE AT THE SITE. QUICKLY STABILIZE EXPOSED SOILS USING VEGETATION, MULCHING, SPRAY OR ADHESIVES, CALCIUM CHLORIDE, SPRINKLING, AND STONE/GRAVEL LAYERING. LIMIT ONSITE CONSTRUCTION TRAFFIC TO 15 MPH. REQUIRE HAUL TRUCKS TO BE COVERED. ENSURE THAT NON-POTABLE WATER USED FOR DUST CONTROL IS APPROPRIATELY AND CLEARLY LABELED. CONTROL WATER USED FOR DUST CONTROL DOES NOT PRODUCE RUNOFF.

INSPECT AND VERIFY THAT MANAGEMENT BASED BMPs ARE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. CHECK AREAS PROTECTED TO ENSURE COVERAGE. MOST DUST CONTROL MEASURE REQUIRE FREQUENT ATTENTION, OFTEN DAILY AND MULTIPLE TIMES PER DAY.

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN
INVENTORY OF MATERIALS

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- CONCRETE
- DETERGENTS
- PAINTS (ENAMEL AND LATEX)
- METAL STUDS
- MASONRY BLOCK
- TAR
- FERTILIZERS
- PETROLEUM BASED PRODUCTS
- CLEANING SOLVENTS
- WOOD
- ROOFING SHINGLES
- LAMPS (INCLUDES FLUORESCENT LAMPS)

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILL OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION.

- AN EFFECT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCT WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- MATERIAL SAFETY AND DATA SHEETS WILL BE AVAILABLE UPON REQUEST.
- THE CONTRACTOR CAN USE PROTECTED STORAGE AREAS FOR INDUSTRIAL OR CONSTRUCTION MATERIALS TO MINIMIZE EXPOSURE TO SUCH MATERIALS TO STORM WATER.

HAZARDOUS PRODUCTS:

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE RETAINED ON SITE.
- IF SURPLUS PRODUCT MUST BE DISPOSSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS:

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS:

FERTILIZERS USED WILL BE APPLIED PER OHIO DEPARTMENT OF TRANSPORTATION (ODOT) SPECIFICATIONS. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM SEWER. STORAGE WILL BE IN A COVERED SHED OR OFFICE. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS:

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

CONCRETE TRUCKS:

CONCRETE TRUCKS WILL WASH OUT OR DISCHARGE SURPLUS CONCRETE ONLY IN AREAS DESIGNATED. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS AND OTHER STORM WATER DRAINAGE AREAS. THE LOCATION WILL BE DETERMINED BY THE CONSTRUCTION MANAGER.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS MAY INCLUDE BUT NOT BE LIMITED TO: BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE CONTRACTOR, RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS, WILL BE IN CHARGE OF SPILL PREVENTION AND CLEANUP. HE WILL DESIGNATE AT LEAST TWO OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA.

SPILL REPORTING REQUIREMENTS

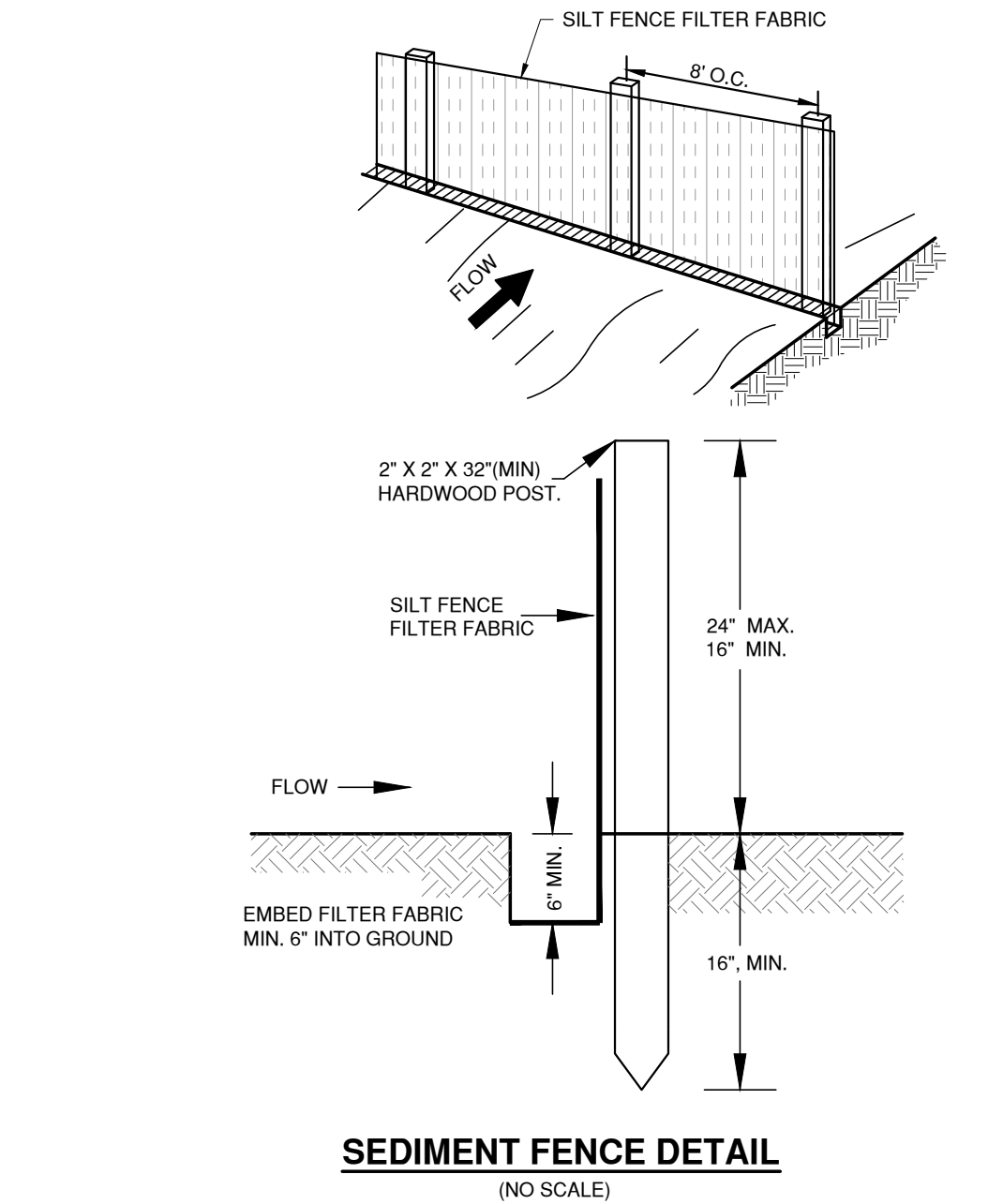
IN AN EVENT OF A SMALL RELEASE, LESS THAN 25 GALLONS OF PETROLEUM WASTE, THE CONTRACTOR SHALL USE PETROLEUM BASED AND CONCRETE CURING COMPOUNDS PER MANUFACTURES HANDLING PROCEDURES.

IN AN EVENT OF A LARGE RELEASE, MORE THAN 25 GALLON OF PETROLEUM WASTE, THE CONTRACTOR SHALL CONTACT OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBANCE AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

PERMANENT SEEDING			
SEED MIX	SEED RATE		NOTES
	LB./1,000 SF.	LB./AC.	
GENERAL USE			
CREEPING RED FESCUE	1/2-1	20-40	
DOMESTIC RYEGRASS	1/4-1/2	10-20	
KENTUCKY RYEGRASS	1/4-1/2	10-20	
TALL FESCUE	1	40	
DWARF FESCUE	1	40	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	1	40	
CROWN VETCH	1/4	10	DO NOT SEED LATER
TALL FESCUE	1/2	20	THAN AUGUST
FLAT PEA	1/2	20	DO NOT SEED LATER
TALL FESCUE	1/2	20	THAN AUGUST
ROAD DITCHES AND SWALES			
TALL FESCUE	1	40	
DWARF FESCUE	2 1/4	90	
KENTUCKY RYEGRASS	1	5	
LAWNS			
KENTUCKY BLUEGRASS	1 1/2	60	
PERENNIAL RYEGRASS	1 1/2	60	
KENTUCKY BLUEGRASS	1 1/2	60	
CREEPING RED FESCUE	1 1/2	60	FOR SHADED AREAS



THE MAXIMUM DRAINAGE AREA TO SILT FENCE FOR A PARTICULAR SLOPE RANGE IS PROVIDED IN THE TABLE BELOW. DRAINAGE AREAS EXCEED THE ALLOWABLE RANGE MUST BE DIRECTED TO A BASIN OR SETTLEMENT FACILITY.

MAXIMUM DRAINAGE AREA (IN ACRES) TO 100 LINEAR FEET OF SILT FENCE	RANGE OF SLOPE FOR A PARTICULAR DRAINAGE AREA (IN PERCENT)
0.50 ACRES	< 2.0%
0.25 ACRES	≥ 2.0% BUT < 20%
0.125 ACRES	≥ 20% BUT < 50%

SILT FENCE: SEDIMENT BARRIERS UTILIZE STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE GROUND COVER IS REMOVED. CLEARING, GRUBBING, AND STUMPING CAN OCCUR BEFORE SILT FENCE INSTALLATION IF GROUND COVER IS NOT REMOVED.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- THE HEIGHT OF A SILT FENCE SHALL BE MINIMUM OF 16" BUT NOT EXCEED 24-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- 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.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 16-INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4-INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2-INCHES AND SHALL NOT EXTEND MORE THAN 24-INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC 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 24-INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

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.

MAINTENANCE

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 SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN 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 SEEDED.

Permit Set
November 6, 2017

PLAN PREPARED FOR:



PLAN PREPARED BY:

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CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
CIVIL PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY
SEDIMENT & EROSION
CONTROL PLAN

REVISION DESCRIPTION

DATE

NO.

SEAL

Date: 11-6-2017
Scale: AS SHOWN

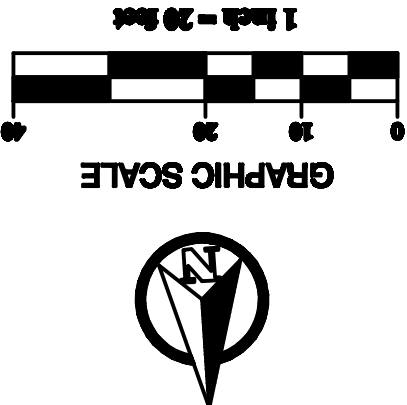
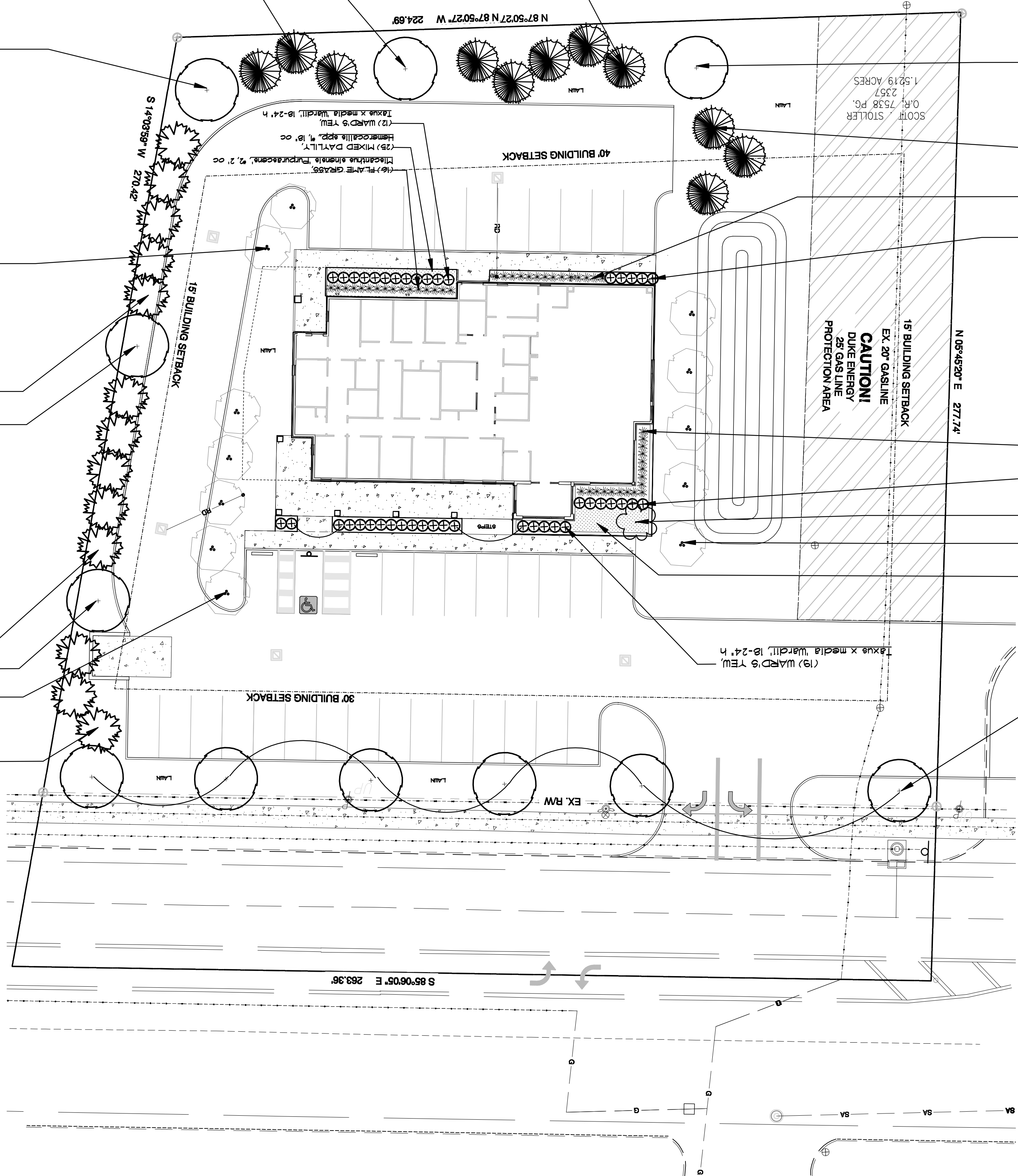
Drawn By: Checked By:
AWG ASH

Project Number:
17-071-02</

(1) THREE TREE PER 50 LF OF ROAD FRONTAGE	6	262 LF.	6	(MIN 2" CAL./TREE)
SITE DIMENSION	TREE9	SHRUB9	PERENNIAL9	NOTE9
TOTAL9	6			

LANDSCAPE CODE REQUIREMENTS FOR WEST CHESTER TWP, OH

(6) *Tilia cordata* 'Greenspire', 2' cal.
 (6) GREENSPIRE LITTLELEAF LINDEN
 (7) WINTER KING HAMMORON
 Grateagula vitifolia 'Winter King', 2' cal.
 (8) LEONARD MESSEY MAGNOLIA
 10' x 10' dense, Leonard Messel, 8-10' h.
 (9) WINTER KING HAMMORON
 Hemerocallis spp. '18', 18' x 18' cal.
 (10) MIXED DAYLILY
 Hemerocallis spp.
 (11) WINTER KING HAMMORON
 Grateagula vitifolia 'Winter King', 2' cal.
 (12) LEONARD MESSEY MAGNOLIA
 10' x 10' dense, Leonard Messel, 8-10' h.
 (13) WINTER KING HAMMORON
 Grateagula vitifolia 'Winter King', 2' cal.
 (14) FLAME GRASS, *Cantharus sinensis*, 2', 2' oc
 (15) FLAME GRASS, *Cantharus sinensis*, 2', 2' oc
 (16) NORWAY SPRUCE, *Picea abies*, 6-7' h.



BLAKE RAFFELD & ASSOCIATES
LANDSCAPE ARCHITECTS
3504 Colchester Road Columbus, Ohio 43221 614-451-6514



All areas distributed by construction interest curbs shall be seeded or hydroseeded below, at a rate of 5 lbs/acre.

40%	PERENNIAL RYEGRASS
20%	ANNUAL RYEGRASS
20%	KENTUCKY BLUEGRASS
20%	PENNSYLVANIAN RED FESCUE

The Landscaping Contractor shall cause notices to be given to the Ohio Utilities Protection Service (Telephone 800-262-2164). Notices shall be given at least 2 working days in advance of construction.

The Landscaping Contractor shall comply with all applicable local, state and federal laws, rules, regulations, codes, ordinances, and orders.

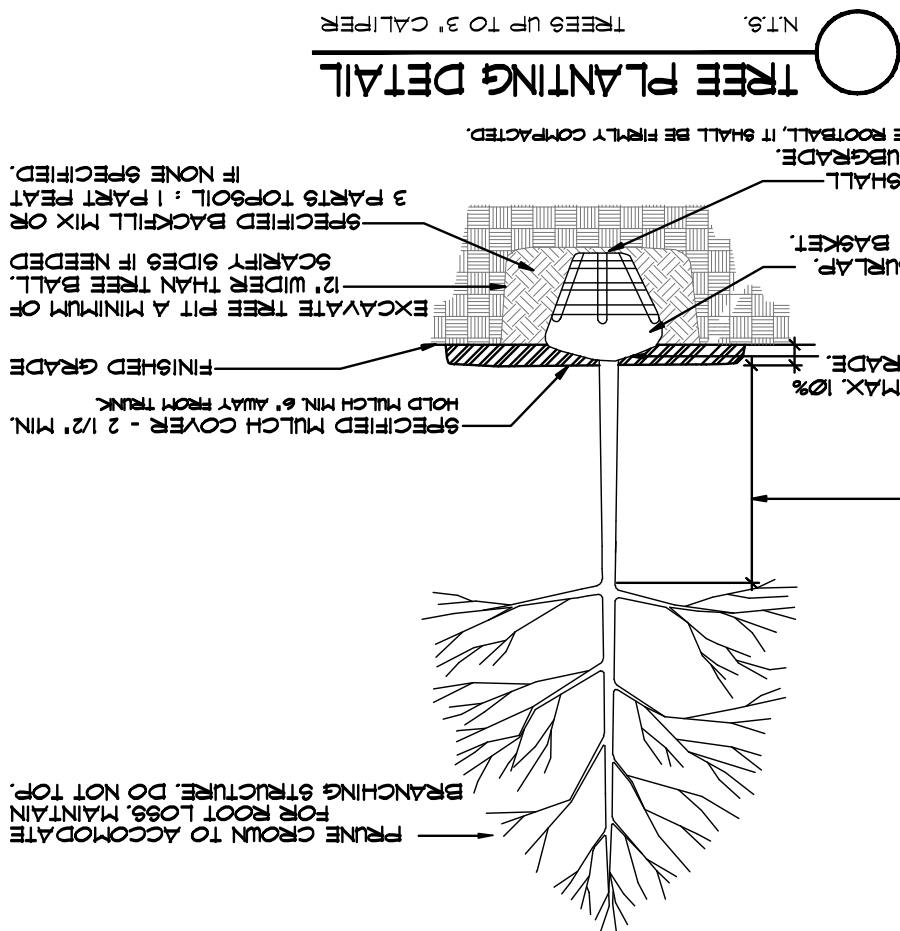
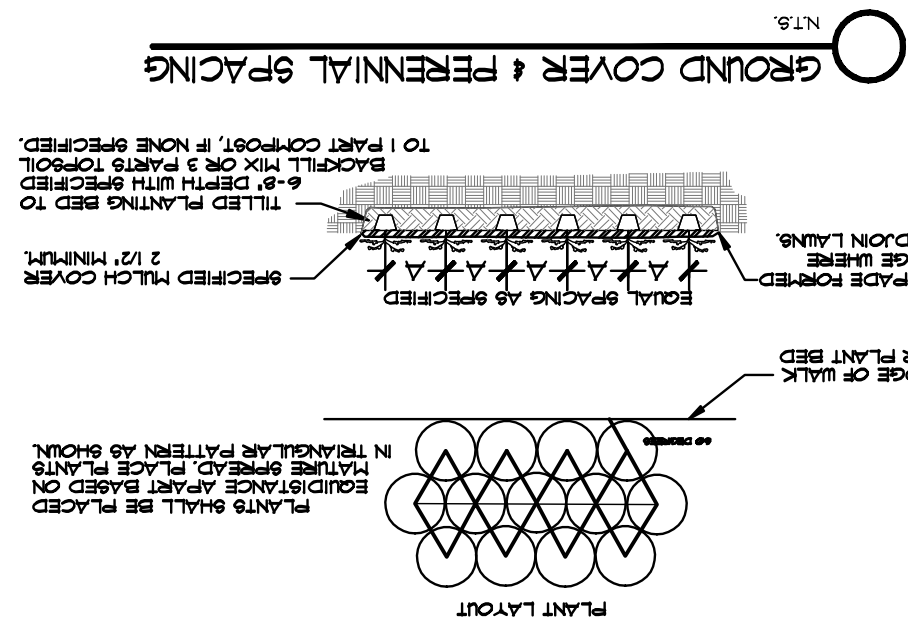
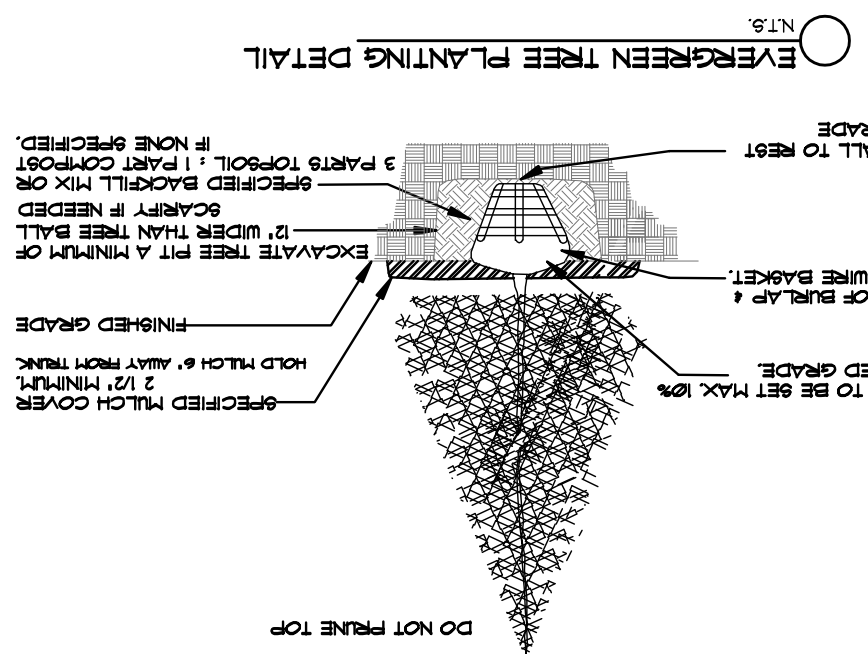
Planting beds shall be raised 4-6" by adding 4-6" of composted organic material. Compost will be incorporated into beds by tilling to a depth of 8-10".

Mulch beds to extend minimum 18" from center of plants and to faces of structures.

Plants to conform to A.M.L.A. standards for grading & digging.

All areas disturbed by construction, to the limits of property line or street curb, shall be seeded or hydroseeded per owner's discretion. For tree areas that are hydroseeded, seed shall mix as specified below, at a rate of 5 lbs./1000 sq. ft.

GENERAL NOTES



NO.	DATE	REVISION DESCRIPTION

CITY OF WEST CHESTER, BUTLER COUNTY, OHIO
LANDSCAPE PLANS
FOCAL POINTE EYE CARE
AT
7227 LIBERTY WAY

**BLAKE RAFFELD
& ASSOCIATES**
LANDSCAPE ARCHITECTS
3004 Colchester Road Columbus, OH 43221 TEL. 614/451-8514 FAX 614/451-0722

PLAN PREPARED BY: