



STORM PIPE MATERIAL DATA

- PP = DUAL WALLED POLYPROPYLENE PIPE PER ASTM F7264 (12-60 INCH) AND WATERFRONT JOINTS PER ASTM D3212. USE ADS SANITITE HP OR APPROVED EQUAL.
- HDPE = HIGH DENSITY POLYETHYLENE SEWER PIPE, BELL AND SPOUT TYPE, WITH RUBBER GASKETS AND SMOOTH INTERIOR, PER THE LATEST ASHRAE M-204 SPECIFICATION.
- PVC = SDR 35 POLYVINYL CHLORIDE PIPING PER ASTM D3034 WITH PREMIUM JOINTS PER ASTM F 477 ASTM D 3212.

UTILITY PLAN KEY NOTE LEGEND

- 4" SDR PVC DOWNSPOUT CONNECTION - 24" MIN COVER - CONNECT TO 6" PVC WITH 6X4 WYE OR BY DIRECT CONNECTION TO NEW YARD DRAIN

UTILITY PLAN NOTES

- GENERAL
- CONTRACTOR SHALL VERIFY ALL UTILITY CROSSING DEPTHS, SIZES, TYPES, CONDITIONS, ETC., PRIOR TO CONSTRUCTION AND SHALL NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS.
 - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING ITEMS AND MATERIALS ENCOUNTERED DURING CONSTRUCTION. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES AND REGULATIONS.
 - CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY AGENCIES AS NECESSARY TO INSURE PROPER INSTALLATION OF SITE UTILITIES.
 - COORDINATE UTILITY CONNECTIONS AT THE BUILDING(S) WITH THE ARCHITECTURAL / MEP PLANS.
 - ANY EXISTING UTILITY CONNECTIONS BEING ABANDONED SHALL BE DISCONNECTED AND/OR CAPPED AS PER JURISDICTION OF THE RESPECTIVE UTILITY AGENCY.
 - ALL NEW FLEXIBLE PUBLIC SEWER PIPE 8" AND LARGER WILL HAVE TO UNDERGO DEFLECTION TESTING AS PER THE REQUIREMENTS OF THE CITY ENGINEER.
 - ALL NEW STORM SEWER AND SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED, INSPECTED, AND TESTED AS PER THE CURRENT REQUIREMENTS OF THE CITY ENGINEER.
 - CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING CONDITIONS (SIZE, CONDITION, PIPE MATERIAL, INVERT ELEVATION) OF ALL SANITARY SEWER AND STORM SEWER CONNECTION POINTS). THESE FIELD VERIFICATIONS SHALL BE PERFORMED AS EARLY AS POSSIBLE DURING THE PROJECT CONSTRUCTION PERIOD. PRIOR TO FABRICATION OF ALL PRECAST STRUCTURES, THE CONTRACTOR SHALL CONFIRM WITH THE ARCHITECT/ENGINEER THAT THE FIELD VERIFIED CONDITIONS ARE SUITABLE FOR THE DESIGN. ALL ADDITIONAL PRECAST STRUCTURE RELATED WORK DUE TO THE LACK OF VERIFICATION OF EXISTING CONDITIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL UNFORESEEN UNDERGROUND OR ABOVE GROUND UTILITIES OR CONDITIONS THAT ARE DISCOVERED IN THE PROJECT AREA DURING CONSTRUCTION SHALL BE REPORTED BY THE CONTRACTOR TO THE DESIGN ENGINEER IMMEDIATELY FOR EVALUATION / POSSIBLE REDESIGN. THE FIELD DATA SHALL INCLUDE MATERIAL TYPE, SIZE, CONDITION, LOCATION, DEPTH / ELEVATION, ETC...
 - PREMIUM BACKFILL SHALL BE USED FOR STORM SEWER AND SANITARY SEWERS UNDER PAVEMENT ON PRIVATE PROPERTY.
- SANITARY
- NEW PVC SANITARY SEWER SHALL BE ASTM D3034 SDR 35 WITH PREMIUM JOINTS.
 - ALL SANITARY SEWER CONNECTION INSTALLATION SHALL MEET CURRENT REQUIREMENTS OF THE CITY ENGINEER AND SUMMIT COUNTY DSSS.
- STORM
- CONNECTIONS TO EXISTING STRUCTURES OR PIPES SHALL BE CORE DRILLED AND SHALL BE WATERTIGHT. CONTRACTOR SHALL CONFIRM INVERT ELEVATION, CONDITION, EXISTING PIPE SIZES, ETC... OF EX STRUCTURE OR PIPE PRIOR TO CORE DRILLING / MAKING CONNECTION. RESILIENT CONNECTORS ARE REQUIRED.
 - ALL EXISTING STORM SEWERS BEING REUSED OR CONNECTED TO SHALL BE JETTED AND CLEANED TO CONFIRM PROPER FUNCTION.
- WATER
- ALL WATER LINE / FIRE LINE WORK SHALL BE PERFORMED AS PER THE LATEST REGULATIONS OF THE COUNTY HEALTH DEPARTMENT AND THE OEPA.
 - CONTRACTOR SHALL COORDINATE SHUTOFF OF EXISTING WATER SERVICE, IF NECESSARY, TO MAKE NEW CONNECTIONS TO THE EXISTING WATER LINE. AT THE FRONT OF CONNECTION, THE CONTRACTOR SHALL INSTALL AN ISOLATION GATE VALVE AS NECESSARY TO COORDINATE EXISTING WATER SERVICE. PROVIDE MIN. 48 HOURS NOTICE TO OWNER PRIOR TO SHUT OFF.

TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING

- GENERAL REQUIREMENTS:
- ALL REQUIREMENTS FOR TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND DETAILS. NO BACKFILL MATERIAL SHALL BE FROZEN.
- IF MATERIAL OTHER THAN ODOT ITEM 304 MATERIAL IS PROPOSED FOR USE AS TRENCH FILL WITHIN THE RIGHT-OF-WAY, A WRITTEN REQUEST MUST BE SUBMITTED TO THE MUNICIPAL ENGINEER. THE MATERIAL IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
- PROCTORS MUST BE CONDUCTED ON ALL FILL MATERIALS AND PLANNED COMPACTION METHODS SUBMITTED TO THIS OFFICE PRIOR TO ANY FILLING OPERATIONS BEING PERMITTED.
 - NEW PROCTORS MUST BE OBTAINED AS OFTEN AS THE SOIL MATERIAL CHANGES.
 - NO PROCTORS FROM PREVIOUS YEAR'S CONSTRUCTION WILL BE ACCEPTED.
 - SLAG IS NOT PERMITTED.
- ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH UNLESS OTHERWISE SPECIFIED.

- TRENCH BACKFILLING:
- WHERE BACKFILLING IS BEING PERFORMED, THE FOLLOWING SHALL CONFORM TO THE FOLLOWING LIMITS:
- INSTALLATION UNDER PAVEMENT AND/OR WITHIN 45' ZONE OF INFLUENCE LINE OF PAVEMENT EDGE, SHALL BE INSTALLED IN ACCORDANCE WITH ODOT ITEM 304 BACKFILL. THE ENTIRE TRENCH SHALL BE FILLED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES IN THICKNESS AND COMPACTED WITH MECHANICAL TAMPERS AT THE SPECIFIED MOISTURE CONTENT UNTIL DRY DENSITY IS NOT LESS THAN 98% OF THE STANDARD PROCTOR. SLAG MATERIAL IS NOT ACCEPTABLE.
 - WITHIN THE RIGHT-OF-WAY (R/W) BUT NOT UNDER PAVEMENT OR NOT WITHIN 45' ZONE OF INFLUENCE LINE OF PAVEMENT EDGE, SUITABLE BACKFILL MATERIAL SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR, AT THE SPECIFIED MOISTURE CONTENT. THE ENTIRE TRENCH SHALL BE FILLED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES WITH A MECHANICAL TAMPER.
- THESE REQUIREMENTS PERTAIN TO INSTALLATION OF ALL UTILITIES.

- TRENCH WIDTH:
- WIDTHS OF TRENCHES SHALL BE HELD TO A MINIMUM TO ACCOMMODATE THE PIPE AND APPURTENANCES. NO SLAG IS ACCEPTABLE. THE TRENCH WIDTH SHALL BE MEASURED AT THE TOP OF THE PIPE BARREL AND SHALL CONFORM TO THE FOLLOWING LIMITS:
- ALL PIPE HAVING A DIAMETER LESS THAN TWENTY-FOUR (24) INCHES SHALL HAVE A MINIMUM WIDTH OF NINE (9) INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL.
 - ALL PIPE HAVING A DIAMETER GREATER THAN TWENTY-FOUR (24) INCHES BUT LESS THAN SIXTY-SIX (66) INCHES SHALL HAVE A MINIMUM WIDTH OF TWELVE (12) INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL.
 - ALL PIPE HAVING A DIAMETER GREATER THAN SIXTY-SIX (66) INCHES SHALL HAVE A MINIMUM WIDTH OF FIFTEEN (15) INCHES MEASURED FROM OUTSIDE OF PIPE BARREL TO TRENCH WALL.

- TRENCH PROTECTION:
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT ANY CAVING OR SETTLING OF EXCAVATION OR TRENCH WALLS WHICH COULD ENDANGER THE SAFETY OF ANY PERSON ENGAGED IN THE WORK OR IN ANY WAY DAMAGE THE UNDERGROUND INSTALLATIONS OF ADJACENT UTILITIES OR PROPERTY; OR DIMINISH THE TRENCH WIDTH NECESSARY FOR THE PROPER CONSTRUCTION OF THE UNDERGROUND INSTALLATION OR OTHERWISE INJURE OR DELAY THE WORK. THE TYPE AND AMOUNT OF SUCH PROTECTION, SUCH AS TRENCH BOXES, SHEETING, SHORING, OR BRACING SHALL BE CONSISTENT WITH THE DEPTH AND WIDTH OF EXCAVATION, THE COMPOSITION AND WATER CONTENT OF THE SOIL, THE PROXIMITY OF STRUCTURES OR OTHER UTILITIES, THE VIBRATION FROM EQUIPMENT AND THE SPOIL PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.

- DEWATERING:
- IN ORDER TO REDUCE GROUND WATER SEEPAGE AND PROVIDE A STABLE TRENCH BOTTOM IT MAY BE NECESSARY TO DEWATER PRIOR TO EXCAVATION OF THE SEWER TRENCH AND/OR PROVIDE TEMPORARY SUMPS.

- FOUNDATION BOTTOM:
- FOUNDATION MATERIAL BELOW THE PIPE AND SIX (6) INCHES OF SUBBEDDING SHALL BE SUITABLE MATERIAL THAT PREVENTS PIPE FROM DEFLECTION DUE TO SETTLEMENT. IF, IN THE ENGINEER'S OPINION, THE MATERIAL FORMING THE TRENCH BOTTOM IS NOT SUITABLE FOR A SOLID FOUNDATION, FURTHER DEPTH SHALL BE EXCAVATED AND THE SAME FILLED WITH MATERIAL AND THICKNESS SPECIFIED BY THE ENGINEER.

- SUBBEDDING MATERIAL:
- AFTER PREPARATION OF THE TRENCH BOTTOM, BEDDING MATERIAL SHALL BE PLACED BELOW PIPE. BEDDING MATERIAL SHALL BE #57 LIMESTONE WITH A MINIMUM THICKNESS OF SIX (6) INCHES AND SPREAD THE FULL WIDTH OF THE TRENCH BOTTOM. BEDDING MATERIAL SHALL NOT HAVE STANDING WATER AND BE FREE OF DEBRIS. ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH.

- PIPE PROTECTION:
- ALL TRENCH EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER PIPE IS PLACED. AGGREGATE MATERIAL #57 LIMESTONE, THOROUGHLY COMPACTED AND INSTALLED AS PER ASTM D-2321 SHALL PROTECT PIPE ACCORDING TO SPECIFICATIONS HEREIN. FLEXIBLE PIPE SHALL HAVE A MINIMUM COVERAGE OF TWELVE (12) INCHES OVER OUTSIDE PIPE BARREL. RIGID PIPE SHALL HAVE A MINIMUM COVERAGE OF SIX (6) INCHES OVER OUTSIDE PIPE BARREL.

UNDERGROUND UTILITY CONSTRUCTION REQUIREMENTS

- UNDERGROUND UTILITIES:
- UTILITIES INCLUDING GAS PIPES, TELEPHONE CABLES AND ELECTRICAL POWER AND STREET LIGHTING CIRCUITS ARE RECOMMENDED TO BE UNDERGROUND. ALL TRENCH BACKFILL IN PAVEMENT AREAS SHALL BE ODOT ITEM #304 AGGREGATE BASE COMPACTED BY VIBRATORY OR MECHANICAL TAMPING IN EIGHT (8) INCH LAYERS. ALL WIRING AND CABLES NOT CONTAINED WITHIN CONDUIT AND DIRECT BURIED, SHALL HAVE THEIR LOCATIONS MARKED WITH TECTO-TAPE OR FACSIMILE TWELVE (12) INCHES ABOVE SUCH DIRECT BURIED WIRING OR CABLE. REFER TO TRENCH EXCAVATION, BOTTOM PREPARATION AND BACKFILLING SECTION HEREIN.

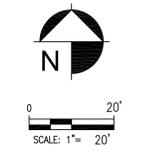
- ALL CONSTRUCTION OF UTILITY PIPE, CONDUIT, CABLE, WIRES, VAULTS AND PERTINENT EQUIPMENT SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE PUBLIC UTILITIES COMMISSION OF OHIO AND WITH THE REQUIREMENTS OF THE UTILITIES INVOLVED.
- THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAS BEEN OBTAINED BY DILIGENT FIELD CHECK AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE DESIGN ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS AND THE CONTRACTOR IS THEREFORE URGED TO PROCEED WITH CAUTION.

- EXISTING APPURTENANCES SUCH AS UTILITY POLES, VALVE BOXES, ETC. ARE TO BE SAFEGUARDED BY THE CONTRACTOR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION SERVICE, 1-800-362-2764 AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY UNDERGROUND WORK IS COMMENCED IN EXISTING STREETS.



ROCKAWAY CIVIL

Rockaway Civil LLC
10191 Sperry Road Kirtland Ohio 44094
440 655 8182 www.rockawaycivil.com



OHIO UTILITIES PROTECTION SERVICE
Call Before You Dig
811 or 1.800.362.2764

OGPUPS
Ohio Oil & Gas Producers Underground Protection Service
1-800-425-0988

Ben Curtis Golf Academy
2155 Middleton Road
Hudson, Ohio 44236

Project Name	

Sheet Revision	

1 PC	03-03-21
------	----------

Project Issue

UTILITY PLAN
Sheet Name

C102
Sheet #
RC Project # 20-040



BEN CURTIS GOLF ACADEMY

PENINSULA ARCHITECTS

P.O. Box 235 | 1775 Main Street
Peninsula, OH 44264
v 330.657.2800 | f 330.657.2419
www.pa-architects.com

PROGRESS
NOT FOR
CONSTRUCTION
01/08/2021

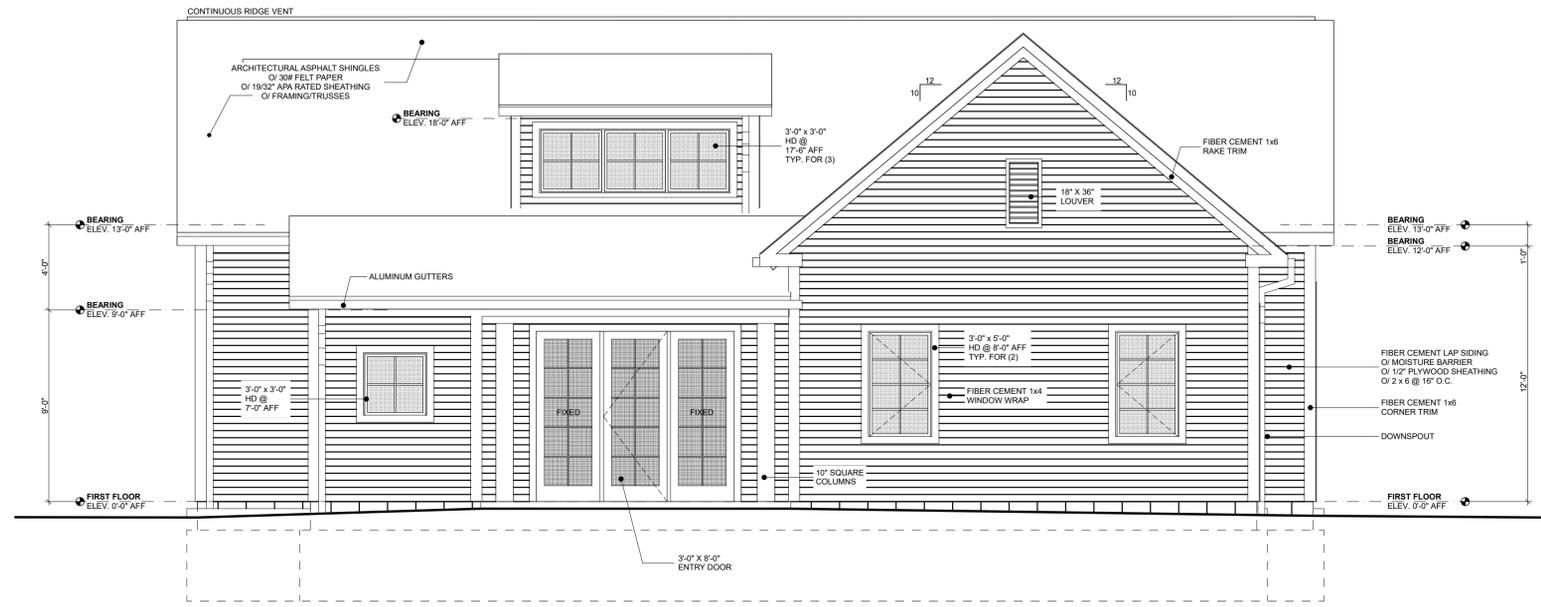
BEN CURTIS GOLF ACADEMY
2155 MIDDLETON ROAD
HUDSON, OHIO 44236

DATE	ISSUE
11/22/19	100% SCHEMATIC DESIGN
12/10/20	REVISIONS
12/15/20	REVISIONS
01/08/21	FOR PRICING

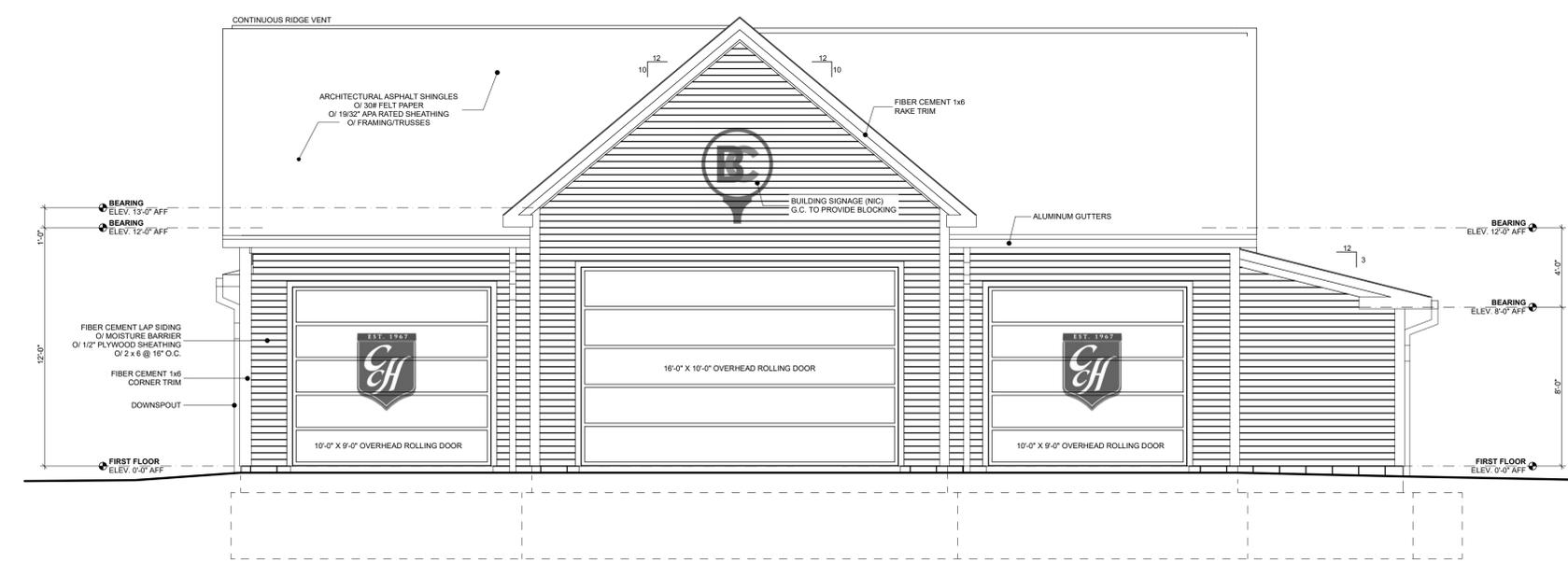
SCALE AS NOTED

EXTERIOR ELEVATIONS

A2.00



1 EAST ELEVATION
SCALE: 1/4" = 1'-0"



2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION WINDOW TYPES:

WIDTH x HEIGHT
HEAD (HD) @ X'-X"

EXTERIOR ELEVATION GENERAL NOTES:

ALL MATERIAL ASSEMBLIES LISTED BELOW TO OCCUR OVER THE FOLLOWING UNLESS NOTED OTHERWISE.

- WEATHER BARRIER
- APA RATED EXTERIOR GRADE OSB SHEATHING
- 2X6 STUDS W/R-21 KRAFT FACED BATT INSULATION

FIBER CEMENT SIDING (JEC-1)
FIBER CEMENT LAP SIDING TO BE JAMES HARDIE LAP SIDING OR APPROVED EQUAL. REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXPOSURE WIDTHS. ALL LAP SIDING IS TO BE PAINTED, COORDINATE FINAL COLOR WITH ARCHITECT AND OWNER.

ASPHALT SHINGLE ROOF
30 YEAR ARCHITECTURAL SHINGLE
MANUFACTURER'S RECOMMENDED UNDERLAYMENT
19/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL EAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.

ROOF SOFFITS TO BE AC PLYWOOD WITH A CONTINUOUS LINEAR VENT UNLESS NOTED OTHERWISE.

ALL WINDOWS ARE TO BE PELLA VINYL WINDOW OR APPROVED EQUAL.

ALL FIBER CEMENT EXTERIOR TRIM TO BE AZEK OR BOKAL, PAINTED, OR APPROVED EQUAL.



BEN CURTIS GOLF ACADEMY

PENINSULA ARCHITECTS

P.O. Box 235 | 1775 Main Street
Peninsula, OH 44254
v 330.657.2800 | f 330.657.2419
www.pa-architects.com

PROGRESS
NOT FOR
CONSTRUCTION
01/08/2021

BEN CURTIS GOLF ACADEMY
2155 MIDDLETON ROAD
HUDSON, OHIO 44236

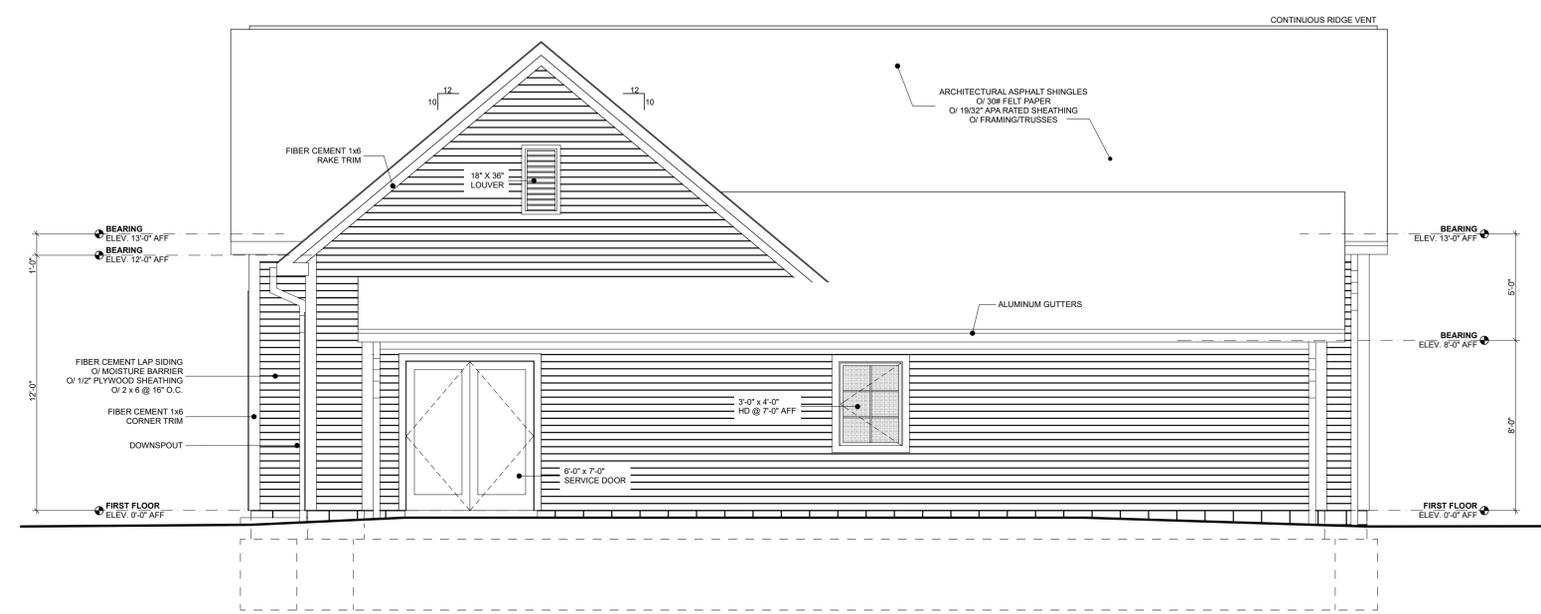
DATE	ISSUE
11/22/19	100% SCHEMATIC DESIGN
12/10/20	REVISIONS
12/15/20	REVISIONS
01/08/21	FOR PRICING

SCALE AS NOTED

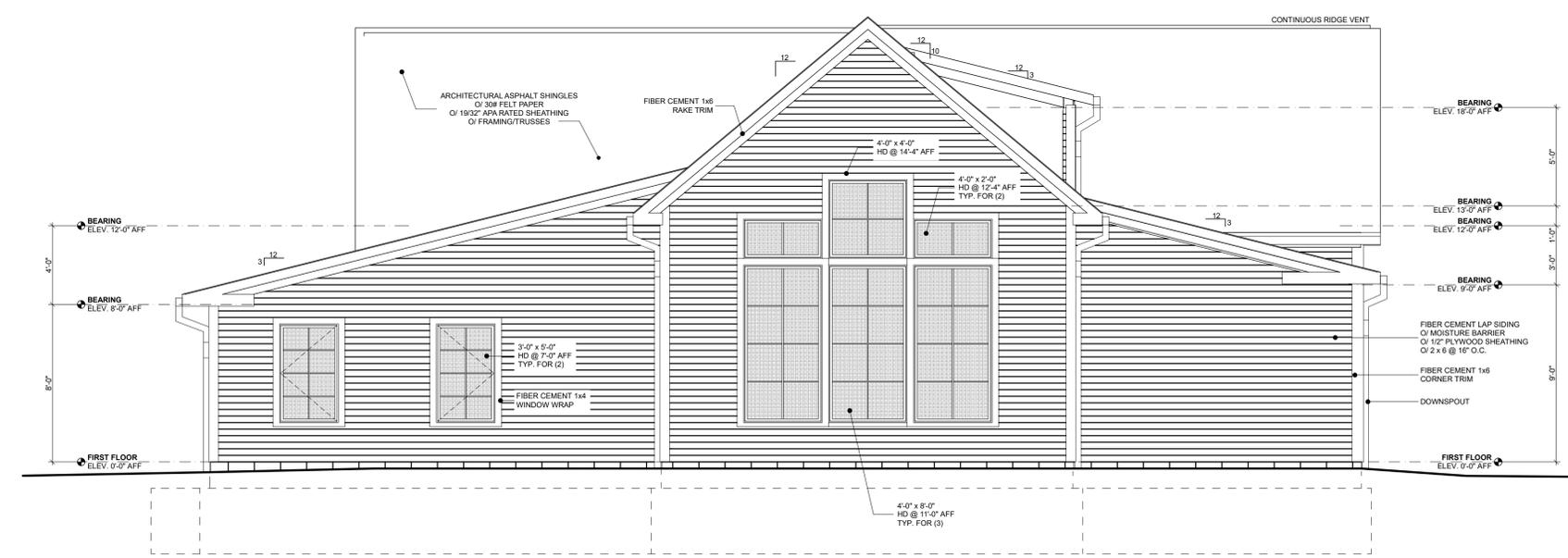
EXTERIOR ELEVATIONS

A2.01

© 2021 Peninsula Architects LTD

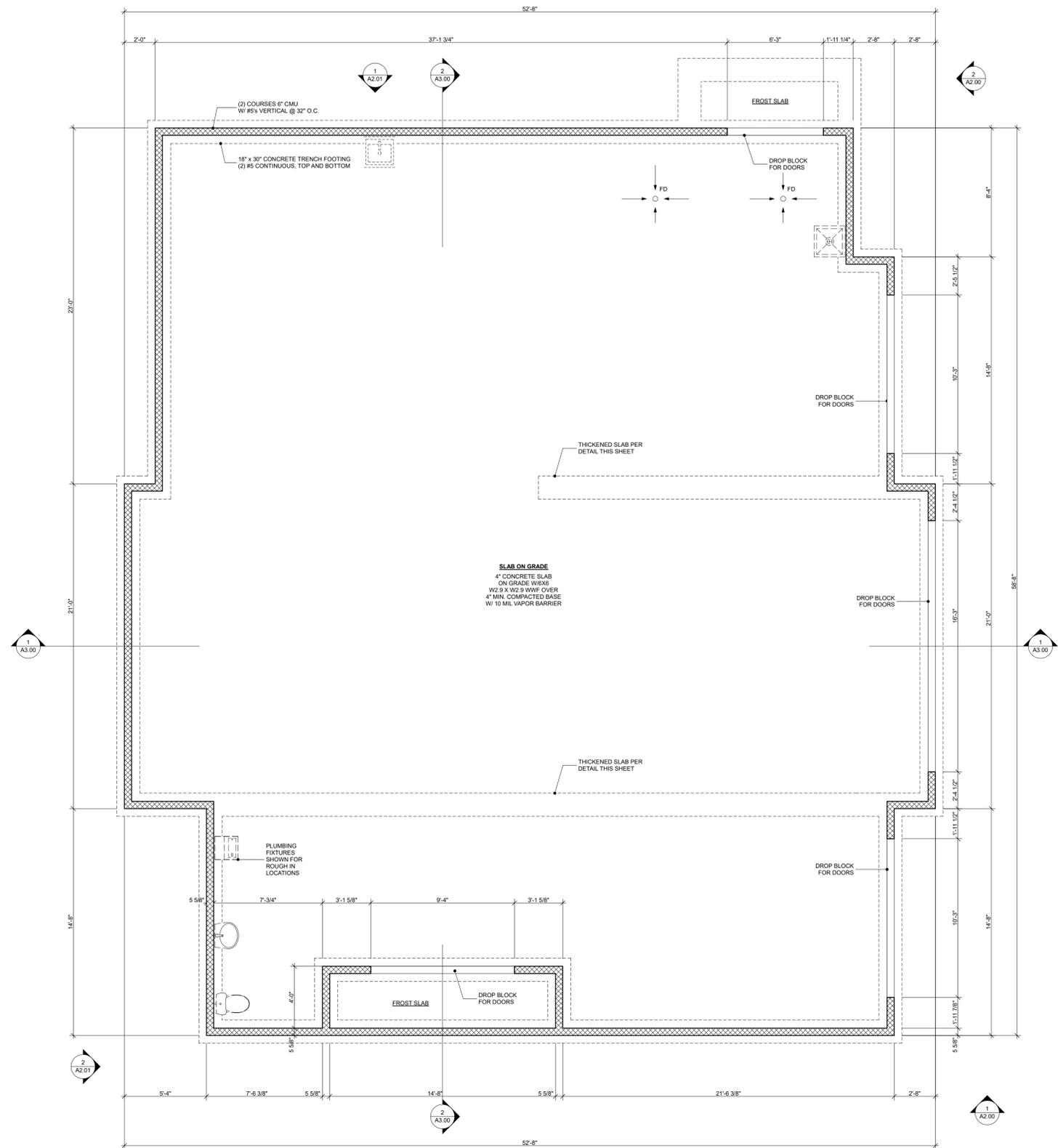


1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

 OPERATION	 FIXED	 CASEMENT	<p>ALL MATERIAL ASSEMBLIES LISTED BELOW TO OCCUR OVER THE FOLLOWING UNLESS NOTED OTHERWISE.</p> <p>□ WEATHER BARRIER □ APA RATED EXTERIOR GRADE OSB SHEATHING □ 2X6 STUDS W/ R-21 KRAFT FACED BATT INSULATION</p> <p>FIBER CEMENT SIDING - (JEC-1) FIBER CEMENT LAP SIDING TO BE JAMES HARDIE LAP SIDING OR APPROVED EQUAL. REFER TO EXTERIOR ELEVATIONS AND WALL SECTIONS FOR EXPOSURE WIDTHS. ALL LAP SIDING IS TO BE PAINTED, COORDINATE FINAL COLOR WITH ARCHITECT AND OWNER.</p> <p>ASPHALT SHINGLE ROOF 30 YEAR ARCHITECTURAL SHINGLE □ MANUFACTURER'S RECOMMENDED UNDERLAYMENT □ 15/32" APA RATED EXTERIOR GRADE SHEATHING. ICE GUARD SHOULD BE INSTALLED AT ALL EAVES AND VALLEYS, UP 72", AND WRAPPED OVER THE FACE OF ALL FASCIAS.</p> <p>ROOF SOFFITS TO BE AC PLYWOOD WITH A CONTINUOUS LINEAR VENT UNLESS NOTED OTHERWISE.</p> <p>ALL WINDOWS ARE TO BE PELLA VINYL WINDOW OR APPROVED EQUAL.</p> <p>ALL FIBER CEMENT EXTERIOR TRIM TO BE AZEK OR BOKAL, PAINTED, OR APPROVED EQUAL.</p>
 AWNING	 DOUBLE HUNG		



1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



BEN CURTIS GOLF ACADEMY

PENINSULA ARCHITECTS

P.O. Box 235 | 1775 Main Street
Peninsula, OH 44254
v 330.657.2800 | f 330.657.2419
www.pa-architects.com

PROGRESS
NOT FOR
CONSTRUCTION
01/08/2021

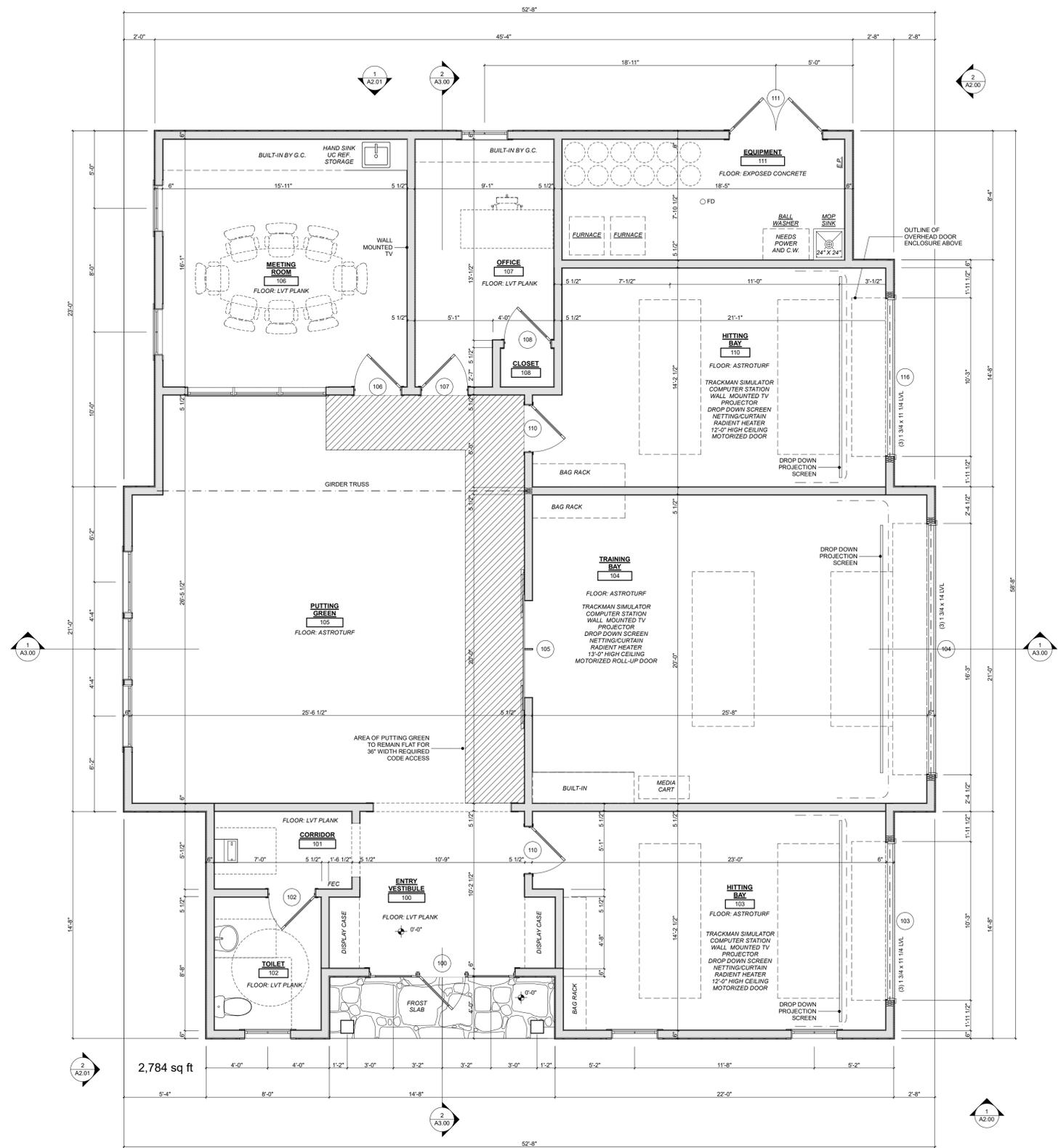
BEN CURTIS GOLF ACADEMY
2155 MIDDLETON ROAD
HUDSON, OHIO 44236

DATE	ISSUE
11/22/19	100% SCHEMATIC DESIGN
12/10/20	REVISIONS
12/15/20	REVISIONS
01/08/21	FOR PRICING

SCALE AS NOTED

FOUNDATION PLAN

A1.00



1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES:

- ALL INTERIOR DOORS TO BE 1 7/8" SOLID CORE WOOD DOORS.
- ALL OVERHEAD ROLLING DOORS TO BE BY OVERHEAD DOOR COMPANY, MODEL NO. 627, PRIMED AND PAINTED WHITE WITH FT-265 SLAT, WEATHERSTRIPPING AND OPTIONAL AIR INFILTRATION PACKAGE. DOORS TO BE AUTOMATIC WITH FACE OF WALL MOUNTED OPTION.
- ALL INTERIOR TRIM TO BE POPLAR OR APPROVED EQUAL.
 - WALL BASE: 4" FLAT STOCK POPLAR, PAINTED
 - TOILET WALL BASE: 6" FLAT STOCK POPLAR, PAINTED
 - WINDOW: 4" FLAT STOCK POPLAR, PAINTED
- MILLWORK PER OWNER AND G.C.
- CEILINGS TO BE SMOOTH FINISH, PAINTED.
- PROVIDE EPOXY PAINT ON ALL WALLS AND CEILINGS OF TOILET ROOM

PROGRESS NOT FOR CONSTRUCTION
01/08/2021

BEN CURTIS GOLF ACADEMY
2155 MIDDLETON ROAD
HUDSON, OHIO 44236

DATE	ISSUE
11/22/19	100% SCHEMATIC DESIGN
12/10/20	REVISIONS
12/15/20	REVISIONS
01/08/21	FOR PRICING

SCALE AS NOTED

FIRST FLOOR PLAN

A1.01

PAVEMENT DRIVE APRONS, SIDEWALK, CURBS AND CURB RAMP REQUIREMENTS

GENERAL REQUIREMENTS:
THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT DRIVE APRONS, SIDEWALKS AND CURB RAMP. ALL PAVEMENT DRIVES, SIDEWALKS AND/OR CURB RAMP 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.

MATERIAL:
ALL CONCRETE SHALL BE CLASS "C" PER ODOT 499 AND PROPERLY CONSOLIDATED (NO SLAG).

SITE ACCESS:
EXCAVATION IN TRAFFIC AREAS SHALL NOT BE LEFT OPEN OVERNIGHT. ALL DRIVE APRON CONSTRUCTION SHALL FOLLOW A SCHEDULE THAT ALLOWS ACCESS TO AND FROM PROJECT SITE AT ALL TIMES. THE DISRUPTION OF ACCESS TO DRIVEWAYS DUE TO THIS WORK SHALL BE KEPT TO A MINIMUM.

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 MUNICIPAL ENGINEER.

PAVEMENT DRIVE APRONS:
ALL PAVEMENT DRIVE APRONS SHALL HAVE A MINIMUM THICKNESS OF SIX (6) INCHES FOR RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS. REFER TO DETAILS.

SIDEWALK:
ALL SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF FOUR (4) INCHES EXCEPT WITHIN THE LIMITS OF THE DRIVEWAYS, WHERE THE MINIMUM THICKNESS SHALL BE SIX (6) INCHES FOR ONE OR TWO FAMILY RESIDENTIAL DRIVEWAYS AND EIGHT (8) INCHES FOR ALL OTHER DRIVEWAYS.

ONE-HALF (1/2) INCH EXPANSION JOINTS SHALL BE PLACED AT INTERVALS NOT TO EXCEED FIFTY (50) FEET. EXPANSION JOINTS SHALL BE SEALED WITH 1/2" THICK SELF LEVELING URETHANE CHALK, LIMESTONE GRAY IN COLOR. ALL CONCRETE SIDEWALK AND/OR CURB SHALL BE OF MONOLITHIC CONSTRUCTION. ALL SIDEWALKS SHALL HAVE A FOUR (4) INCH MINIMUM SUBBASE, ODOT ITEM 304, COMPACTED TO 95% COMPACTION.

CURB RAMP:
CURB RAMP 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 RAMP SHALL MEET THE CURRENT ADA REQUIREMENTS. REFER TO DETAILS.

CONSTRUCTION SAW CUTTING:
WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURB RAMP OR SIDEWALKS THE CONCRETE SHALL BE SAW CUT IN NEAT STRAIGHT LINES AS DIRECTED BY ENGINEER / MUNICIPALITY. THE DEPTH OF SAW CUT SHALL BE FULL DEPTH. WHERE IT IS NECESSARY TO DISTURB EXISTING PAVEMENT DRIVES, CURBS AND/OR WALKS THE ASPHALT CONCRETE SHALL BE LINE CUT WITH STRAIGHT VERTICAL EDGES. ALL CUT BITUMINOUS SURFACES SHALL BE SEALED WITH A 4" WIDE RUBBERIZED JOINT SEALER UNDER A SQUEEGEE.

CONCRETE SHALL BE REMOVED IN SECTIONS. SAW CUT LINES ARE TO TAKE PLACE AT EXISTING JOINTS.

CURING COMPOUND:
AN APPROVED SEALER SHALL SEAL ALL EXPOSED CONCRETE APPROPRIATE TO APPLICATION ON SURFACE OF CONCRETE. SEE CURRENT ODOT SPECIFICATIONS FOR APPLICATION METHODS.

STRUCTURES ENCOUNTERED:
THE CONTRACTOR SHALL ADJUST ANY "SURFACE STRUCTURE" IN THE AREA OF SIDEWALK AND/OR PAVEMENT DRIVE TO GRADE. THE CONTRACTOR SHALL FURNISH NECESSARY PARTS AND REPAIR ALL "SURFACE STRUCTURES" DAMAGED BY CONSTRUCTION OF IMPROVEMENT.

ASPHALT PAVEMENT CONSTRUCTION REQUIREMENTS

GENERAL REQUIREMENTS:
THE FOLLOWING REQUIREMENTS APPLY TO ALL PAVEMENT IMPROVEMENTS.

COLD WEATHER:
NO ASPHALTIC PAVEMENT COURSE AND/OR CONCRETE PAVEMENT OR CURBING SHALL BE LAID ON FROZEN PAVEMENT, BASE OR SUBBASE.

SURFACE TEMPERATURES FOR ASPHALT PAVEMENT PLACEMENT SHALL BE 40 DEGREES FAHRENHEIT FOR THICKNESS GREATER THAN 1.5 INCHES AND 50 DEGREES FAHRENHEIT FOR SURFACE COURSES LESS THAN 1.5 INCHES. THE AIR TEMPERATURE SHOULD NOT BE LESS THAN 40 DEGREES FAHRENHEIT FOR ASPHALT PLACEMENT.

AMBIENT TEMPERATURE SHALL BE 35 DEGREE FAHRENHEIT AND RISING FOR CONCRETE PLACEMENT. WINTER PROTECTION SHALL BE IN EFFECT WHEN TEMPERATURES FALL BELOW 40 DEGREES FAHRENHEIT FOR A PERIOD OF 3 SUCCESSIVE DAYS. PROTECTION CONSISTS OF VISQUEEN AND BLANKETS.

EARTHWORK:
ALL FILLED AREAS, EXCLUDING TRENCHES WITHIN RIGHT-OF-WAY AREAS, SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 203. IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET, AN APPROVED TESTING COMPANY IN ACCORDANCE WITH ODOT ITEM 203 SHALL PERFORM NUCLEAR COMPACTION TESTS.

ASPHALT PAVEMENT:
ALL MATERIAL MUST BE OBTAINED FROM A SOURCE APPROVED BY THE OHIO DEPARTMENT OF TRANSPORTATION. ASPHALT PAVING SHALL BE AS SHOWN ON THE TYPICAL SECTION.

MATERIALS:
AGGREGATE BASE - AGGREGATE BASE SHALL BE THE REQUIRED THICKNESS ACCORDING TO THE ATTACHED DETAILS AND IN ACCORDANCE TO ODOT ITEM 304 LIMESTONE. AGGREGATE BASE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY.

SURFACE ASPHALT CONCRETE - SURFACE ASPHALT CONCRETE SHALL BE AS PER THE ATTACHED DETAILS. THE SURFACE COURSE SHALL BE FINISHED 1/4 INCH ABOVE THE GUTTER AND ALL CASTINGS IN ROADWAY AS APPLICABLE.

INTERMEDIATE ASPHALT CONCRETE - INTERMEDIATE ASPHALT CONCRETE SHALL BE AS PER THE ATTACHED DETAILS.

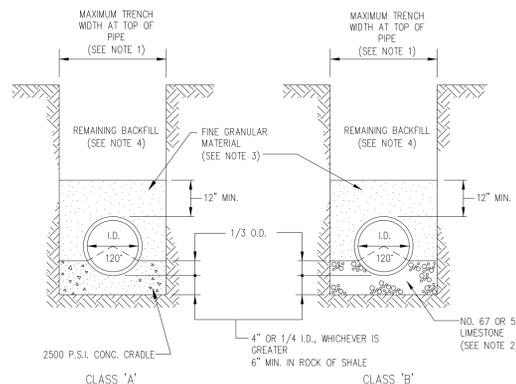
BITUMINOUS AGGREGATE BASE - BITUMINOUS AGGREGATE BASE SHALL BE THE REQUIRED THICKNESS ACCORDING TO THE ATTACHED DETAILS AND IN ACCORDANCE TO ODOT ITEM 301.

JOINT SEALER - THE JOINT BETWEEN THE CONCRETE CURB AND PAVEMENT SURFACE SHALL BE SEALED WITH A FOUR (4) INCH WIDE APPLICATION OF RUBBERIZED JOINT SEALER OVERLAPPING THE CURB 1/2 INCH. THE SEAL SHALL BE LIGHTLY APPLIED IN A STRAIGHT LINE, SQUEEGEE AND LIGHTLY COVERED WITH SAND. THIS IS ALSO TO BE APPLIED TO THE PERIMETER OF UTILITY STRUCTURES IN PAVEMENT AREAS AS WELL AS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT. THESE AREAS SHALL BE SEALED WITH A FOUR (4) INCH WIDE APPLICATION OF RUBBERIZED JOINT SEALER OVERLAPPING THE UTILITY CASTING/EXISTING PAVEMENT SURFACE BY 1/2 INCH.

ASPHALT PAVEMENT REPAIR:
ASPHALT PAVEMENT REPAIR SHALL CONFORM TO ALL ODOT REQUIREMENTS AND SPECIFICATIONS HEREIN. IN ADDITION ASPHALT PAVEMENT REPAIRS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

- 1) SUBBASE REPAIR SHALL INCLUDE REMOVAL AND DISPOSAL OF DAMAGED AGGREGATE AND REPLACEMENT WITH COMPACTED ODOT ITEM 304 LIMESTONE. AREAS FOR REPAIR SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER.
- 2) COLD WEATHER REPAIRS: DURING ADVERSE WEATHER CONDITIONS, LOW STRENGTH MORTAR (LSM) SHALL BE USED TO FILL THE TRENCH AND A 6" CONCRETE CAP TEMPORARILY INSTALLED USING A VISQUEEN BOND BREAKER.

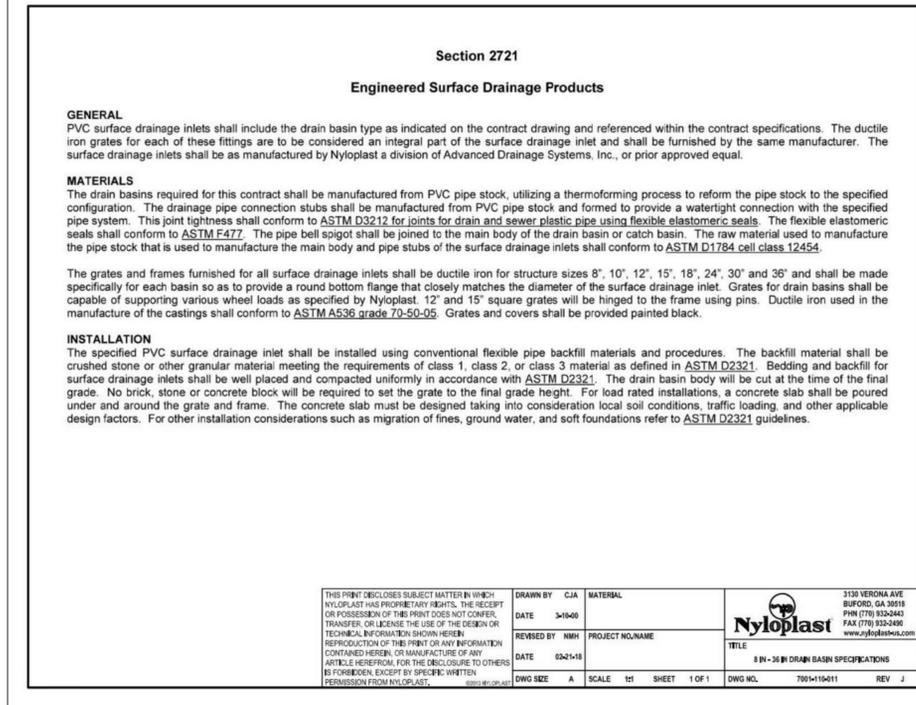
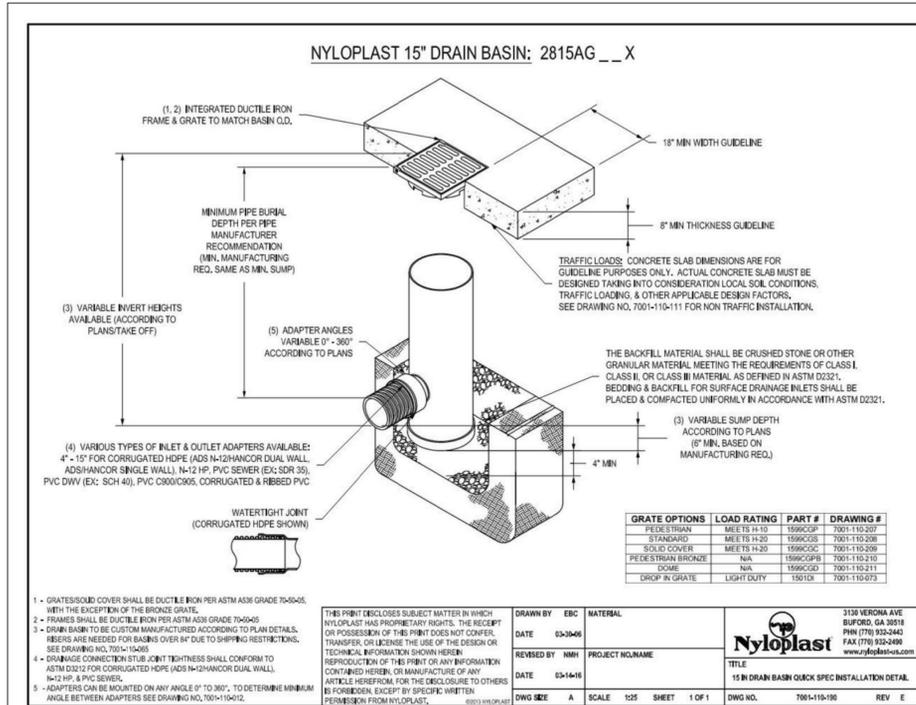
ABUTTING ASPHALT CONTACT:
AT ANY POINT WHERE THE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE FULL DEPTH SAW CUT. THIS CUT SHALL BE PERPENDICULAR TO CENTERLINE REMOVING APPROXIMATELY ONE (1) FOOT OR ALL DAMAGED PAVEMENT AS DIRECTED BY THE ENGINEER. AN ADDITIONAL 18" OF ADJOINING ASPHALT SHALL BE MILLED 1 1/2" PRIOR TO APPLYING THE SURFACE COURSE. ASPHALT SURFACE CONCRETE PER DETAILS SHALL BE USED TO FEATHER THE TRANSITION AND MAINTAIN POSITIVE DRAINAGE BETWEEN THE EXISTING AND PROPOSED PAVEMENT.



NOTES:

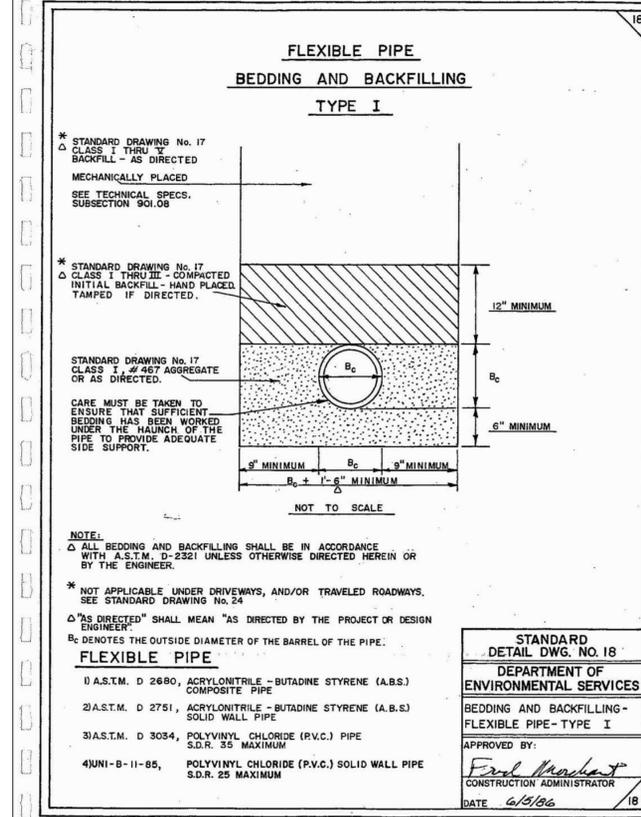
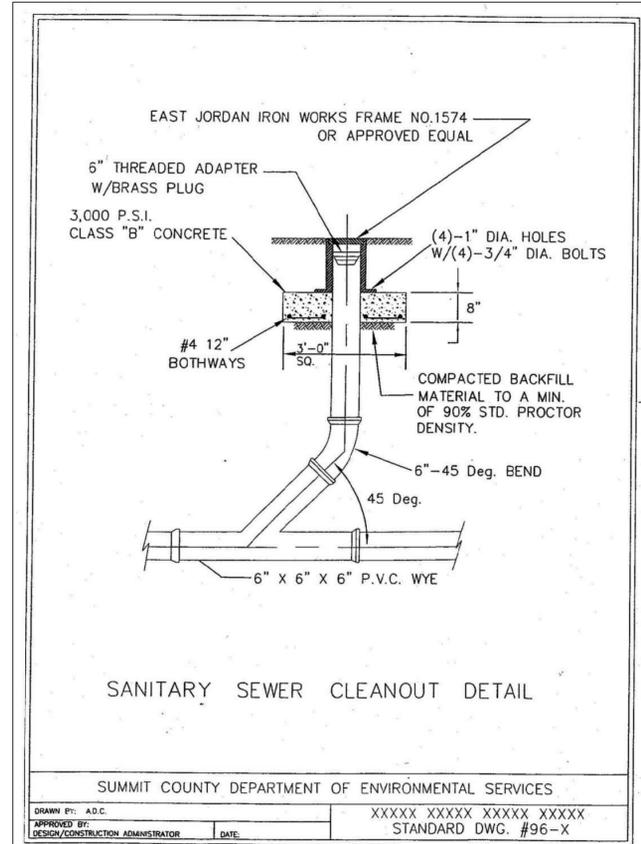
1. MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D. + 30" FOR PIPE LARGER THAN 24" I.D. TO 66" I.D.; AND O.D. + 48" FOR PIPE SIZES 72" AND OVER.
2. PIPE BEDDING SHALL BE NO. 67 OR NO. 57 LIMESTONE.
3. PIPE BACKFILL SHALL BE NO. 67 OR NO. 57 LIMESTONE TO 12" ABOVE TOP OF PIPE.
4. ALL BACKFILL SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PULDING OF BACKFILL WILL BE PERMITTED. BACKFILL SHALL BE COMPLETED TO 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D698. REMAINING TRENCH BACKFILL SHALL BE PREMIUM FILL (LIMESTONE SCREENINGS) TO TOP OF TRENCH UNDER PAVEMENT.
5. ALL BEDDING SHALL BE CLASS "B" UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER.
6. SLAG SHALL NOT BE USED.
7. CLAY DAMS SHALL BE REQUIRED WHEN AND WHERE NECESSARY PER PLAN OR AS DIRECTED BY THE ENGINEER.

SEWER TRENCH & BEDDING DETAILS



CORE DRILL DETAIL - CONNECTION TO EXISTING MANHOLE

NTS



Rockaway Civil LLC
10191 Sperry Road Kirtland Ohio 44094
440 655 8182 www.rockawaycivil.com

Ben Curtis Golf Academy

2155 Middleton Road
Hudson, Ohio 44236

Project Name	
Sheet Revision	

1 PC	03-03-21
Project Issue	

NOTES & DETAILS

Sheet Name

C300

Sheet #
RC Project # 20-040

Site Photos

