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FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO

SITE IMPROVEMENTS

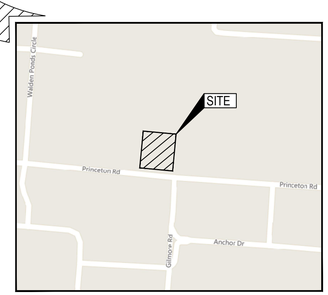
FOR

CASEY'S #3847

2994 PRINCETON ROAD
HAMILTON, OH 45011

APPROVED
Eric Pottenger , 8/12/2022, 10:26:39 AM





VICINITY MAP
NO SCALE

OWNER/DEVELOPER:
CASEY'S GENERAL STORES, INC.
ONE SE CONVENIENCE BLVD.
ANKENY, IA 50021
PHONE: (515) 446-6402
CONTACT: DARREN MOGA

ENGINEER:
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CONTACT: STEVEN THOMPSON
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WATER:
BUTLER COUNTY WATER & SEWER
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DUKE ENERGY ELECTRIC
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CONTACT: CRAIG HUTCHINSON

LEGEND

EXISTING FEATURES LEGEND
APPLIES TO ALL CIVIL SHEETS

- R/W — RIGHT OF WAY LINE
- PARCEL LINE
- SUBJECT PROPERTY BOUNDARY LINE
- EASEMENT LINE
- CURB
- EDGE OF PAVEMENT
- EDGE OF WALK
- PAVEMENT MARKINGS
- STM — STORM SEWER
- SAN — SANITARY SEWER
- W — WATER LINE
- G — GAS LINE
- OHE — OVHD ELECTRIC LINE
- UGE — UGND ELECTRIC LINE
- UGT — UGND TELECOMM LINE
- 100 — MAJOR CONTOUR
- 102 — MINOR CONTOUR
- SITE BENCHMARK
- IRON PIPE FOUND AS NOTED
- IRON PIN FOUND AS NOTED
- CONCRETE BOLLARD POST
- ELECTRIC METER
- ELECTRIC BOX
- TELEPHONE BOX
- TELEPHONE POLE
- LIGHT POLE
- POWER & TELEPHONE POLE
- POWER POLE
- LARGE ROCK
- SANITARY MANHOLE
- CLEANOUT
- WATER VALVE
- FIRE HYDRANT
- CATCH BASIN
- CATCH BASIN
- CURB INLET
- DRAINAGE MANHOLE
- GAS METER / REGULATOR
- GAS VALVE
- MAILBOX
- SIGN
- POST

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BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009. NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

OHIO Utilities Protection SERVICE
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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

COVER SHEET

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-001

W:\PROJECTS\CASEYS\756995-HAMILTON OH\03-CIVIL\PLAN\CONSTRUCTION\756995_C-001-COVER.DWG - 7/11/2022 1:38 PM

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH BUTLER COUNTY AND ALL UTILITY PROVIDERS LOCATED ON-SITE AND IN THE RIGHT OF WAY.
2. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK PER BUTLER COUNTY PROJECT SPECIFICATIONS.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL OHIO UTILITY PROTECTION SERVICE AND THEN TO CONTACT ALL UTILITY COMPANIES TO SCHEDULE UTILITY SERVICE REMOVAL AND/OR ABANDONMENT. ALL UTILITIES SHALL BE REMOVED AND/OR RELOCATED PER THE SPECIFICATIONS OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE TO PAY ALL FEES AND CHARGES ASSOCIATED WITH THIS WORK.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE 2012 ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND BUTLER COUNTY PROJECT SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY THE GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS. AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION, CONTRACTOR SHALL PROVIDE SAFETY RAILINGS AT ALL AREAS WHERE FALL PROTECTION IS REQUIRED.
7. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
8. SAWCUT AND REMOVE TO FULL DEPTH AT ALL PAVEMENT/SIDEWALK LIMITS OR TO EXISTING JOINTS.
9. CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP UNAUTHORIZED PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
11. EXTENT OF DEMOLITION WORK IS NOT LIMITED TO ONLY WHAT IS SHOWN TO BE DEMOLISHED ON THIS PLAN. DEMOLITION WORK MUST BE COMPLETE SO THE PROPOSED STRUCTURES AND APPURTENANCES CAN BE CONSTRUCTED.
12. ALL POTENTIALLY HAZARDOUS/TOXIC MATERIALS MUST BE REMOVED FROM THE SITE PRIOR TO DEMOLITION, AND PER DIRECTION OF ENVIRONMENTAL ENGINEER.
13. THE REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
14. FEDERAL, STATE AND LOCAL CODE REQUIREMENTS SHALL CONTROL THE DISPOSAL OF DEBRIS RESULTING FROM THE REMOVAL OPERATION.
15. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
16. DEAD SEWER CONNECTIONS OR MAINS BEING REMOVED SHALL BE REMOVED TO THE RIGHT OF WAY (UNLESS PLANS OR THE SANITARY ENGINEER SPECIFY OTHERWISE) AND SEALED AND MADE WATERTIGHT.
17. ALL TRENCHES, HOLES AND PITS RESULTING FORM THE REMOVAL AND ABANDONMENT OF ANY STRUCTURE OR OBSTRUCTION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
18. TREE REMOVAL AND CLEARING AND GRUBBING SHALL BE PERFORMED PER FEDERAL, STATE AND LOCAL CODE REQUIREMENTS. STUMP SHALL BE REMOVED COMPLETELY, INCLUDING ALL ROOTS.
19. THE CONTRACTOR SHALL STRIP AND REMOVE (OR STOCKPILE) ALL TOPSOIL PRIOR TO COMMENCING WITH ANY EXCAVATION OR DEMOLITION.
20. EXISTING UTILITIES NOT TO BE UTILIZED BY THE NEW DEVELOPMENT SHALL BE CAPPED BY THE CONTRACTOR.

SITE GENERAL NOTES

1. ALL DIMENSIONS ARE MEASURED TO THE BACK OF CURB OR FACE OF BUILDING.
2. ALL LIGHT POLES TO BE LOCATED 3' FROM THE BACK OF CURB, AS MEASURED FROM THE FACE OF POLE FOUNDATION, UNLESS OTHERWISE DENOTED ON PLANS.
3. ALL SIGNAGE SHALL COMPLY WITH THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.)
   a. STOP SIGN
   b. DO NOT ENTER
4. ALL PAVEMENT MARKINGS AND STRIPING SHALL COMPLY WITH ODOT AND THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (O.M.U.T.C.D.)
   a. LANE LINE: 6" WHITE
   b. WORDING/LANE USE ARROWS AND HANDICAP AREA: WHITE
   c. PARKING STALLS: 4" YELLOW
   d. STOP LINE: 12" WHITE
5. BOLLARDS SHALL BE PLACED PER PLAN.
6. NEW CURB AND GUTTER ALONG EXISTING STREETS TO MATCH EXISTING CURB AND GUTTER IN KIND. IF UNDER DRAIN EXISTS, IT SHALL BE REPLACED.

GRADING GENERAL NOTES

1. CONTRACTOR SHALL CONSTRUCT SIDEWALKS SUCH THAT 2% IS THE MAXIMUM CROSS SLOPE, AND 5% IS THE MAXIMUM TRANSVERSE SLOPE, AND CURB RAMPS SHALL BE CONSTRUCTED PER DETAILS IN THESE PLANS, AND THE MAXIMUM SLOPES SHALL NOT BE EXCEEDED. FORMS SHALL BE PLACED FOR SIDEWALK AREA, AND THE SLOPES ARE TO BE VERIFIED PRIOR TO PLACING CONCRETE. IF SLOPES BECOME AN ISSUE, CONTRACTOR SHALL CONTACT THE ENGINEER.
2. CURB AND GUTTER SHALL PITCH OUT WHERE GRADING IS SLOPED AWAY FROM THE CURB AND SHALL PITCH IN WHEN GRADING IS SLOPED TOWARDS THE CURB. THE PITCH OF THE GUTTER SHALL MATCH PARKING LOT GRADES.
3. UNLESS OTHERWISE NOTED, ALL SPOT ELEVATIONS SHOWN ARE PAVEMENT ELEVATIONS.

PLANTING GENERAL NOTES:

1. ALL PLANT MATERIAL SHALL BE NORTHERN NURSERY GROWN NO. 1 GRADE AND INSTALLED ACCORDING TO ACCEPTED PLANTING PROCEDURES. ALL PLANT MATERIALS SHALL MEET CURRENT AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS. DO NOT PLANT MATERIALS UNTIL DIRECTED BY OWNER/CONSTRUCTION MANAGER. THE OWNER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL, FOR ANY REASON BEFORE OR AFTER IT IS INSTALLED.
2. SIZES SPECIFIED ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE INSTALLED. ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE MUNICIPALITY AND OWNER.
3. ALL LANDSCAPING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MUNICIPAL STANDARDS AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS IN A NEAT, HEALTH AND WEED FREE CONDITION. ANY DEAD, DISEASED OR DAMAGED PLANT MATERIALS ARE TO BE REPLACED IMMEDIATELY AFTER NOTIFIED TO DO SO. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR AFTER PLANTING AND ACCEPTANCE.
4. PLANT TREES AND SHRUBS IN ACCORDANCE WITH PLANTING DETAILS. DIG TREE PITS PER DETAILS. PLANT TREES AND SHRUBS AT THE SAME GRADE LEVEL AT WHICH THEY WERE GROWN AT THE NURSERY. IF HEAVY CLAY SOILS ARE EVIDENT, PLANT TREES AND SHRUBS HIGHER, APPROX. ¼ OF THE ROOT BALL ABOVE GRADE.
5. REMOVE ALL TWINE, WIRE, NURSERY TREE GUARDS, TAGS AND INORGANIC MATERIAL FROM ROOT BALLS. REMOVE THE TOP 1/3 OF BURLAP FROM EARTH BALLS AND REMOVE BURLAP FROM AROUND TRUNK.
6. BRICK CHIPS OR WASHED GRAVEL IS REQUIRED FOR ALL PLANTINGS AND PLANTING BEDS.
7. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES. IF A CONFLICT WITH UTILITIES EXISTS, NOTIFY OWNER/CONSTRUCTION MANAGER PRIOR TO PLANTING.

UTILITY GENERAL NOTES:

1. COORDINATE ALL SITE UTILITY WORK WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.
2. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY CONTRACTOR'S WORK FORCE.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED TO PERFORM THE WORK PROPOSED ON THESE PLANS.
4. EXISTING AND PROPOSED GAS, ELECTRIC, TELEPHONE ASSUMED TO BE 36" COVER.
5. CONTRACTOR TO ENSURE MIN. 10' FOOT HORIZONTAL AND 18" VERTICAL CLEARANCE BETWEEN WATER AND SANITARY/STORM LINES.
6. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

STORM SEWER GENERAL NOTES:

1. ALL STORM SEWER PIPES SHALL BE MANUFACTURED WITH INTEGRAL BELL AND SPIGOT JOINTS INCLUDING A GASKET, SO AS TO PROVIDE A WATERTIGHT SEAL.
2. ALL STORM SEWER PIPES SHALL BE PVC SDR 35 WATERTIGHT PIPE CONFORMING TO ASTM SPECIFICATION D3034, UNLESS DENOTED OTHERWISE ON PLANS.
3. CONNECTIONS TO STRUCTURES SHALL BE MADE WATERTIGHT WITH NON-SHRINKING AND NON-CORROSIVE GROUT.

WATER GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BUTLER COUNTY SANITARY ENGINEER FOR PIPE, FITTINGS, JOINTS, HYDRANTS, VALVES AND BOXES, TAPPING SADDLES, AND CORPORATION STOPS.
2. WATER SERVICE MATERIAL LARGER THAN 2" SHALL BE DUCTILE IRON IN CONFORMANCE WITH ANSI A21.51 (AWWA C151) DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS AND ANSI A21.50 (AWWA C150) THICKNESS DESIGN OF IRON PIPE. ALL SERVICE LINES 2" OR LESS SHALL BE COPPER TYPE K. SIZE TO BE AS NOTED IN PLAN VIEW. SERVICE CONNECTION TO HAVE MINIMUM COVER OF 60" COVER.
3. ALL FITTINGS SHALL BE DUCTILE IRON IN CONFORMANCE WITH AWWA C110 OR AWWA C153. ALL FITTINGS SHALL BE RATED FOR 350 PSI WORKING PRESSURE, HAVE MECHANICAL JOINTS AND BE COATED AND CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104. ALL BOLTS AND NUTS SHALL BE COR-TEN.
4. A TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER.
5. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWER AT ALL CROSSINGS.
6. A TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
7. AN 18-INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS.

SWPPP GENERAL NOTES

1. ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO: SWPPP AND DETAIL PLANS; ACCORDING TO THE LATEST EPA AUTHORIZATION FOR CONSTRUCTION ACTIVITY UNDER THE "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES); ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
2. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
3. CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
4. SEDIMENT STRUCTURE AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RE-STABILIZED.
5. PERMANENT SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF VEGETATION, LANDSCAPE TYPE MULCHING, MATTING, SOD, RIP RAP, AND OTHER APPROVED LANDSCAPING TECHNIQUES TO BE APPLIED AS FOLLOWS:
   - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR ONE (1) YEAR OR MORE.
   - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM AT FINAL GRADE.
   - WITHIN SEVEN (7) DAYS FOR ANY OTHER AREA AT FINAL GRADE.
6. TEMPORARY SOIL STABILIZATION OF DISTURBED AREAS BY MEANS OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION, AND OTHER APPROVED TECHNIQUES TO BE APPLIED AS FOLLOWS:
   - WITHIN TWO (2) DAYS OF ANY AREA WITHIN 50 FEET OF A STREAM NOT AT FINAL GRADE.
   - WITHIN SEVEN (7) DAYS OF ANY AREA THAT WILL BE DORMANT FOR MORE THAN TWENTY ONE (21) DAYS, BUT LESS THAN ONE (1) YEAR.
   - PRIOR TO THE ONSET OF WINTER WEATHER FOR AREAS THAT WILL BE IDLE OVER WINTER.
7. TEMPORARY SEEDING, MULCHING, AND FERTILIZER SPECIFICATIONS:

   SEEDING: ANNUAL RYEGRASS AT 2.02 POUNDS PER 1,000 S.F.

   MULCHING: STRAW MATERIAL SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT A RATE OF TWO (2) TON/ACRE, OR 80-100 POUNDS PER 1,000 S.F. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITIVE NOXIOUS WEEDS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICAL MEANS. FROM NOVEMBER 01 THRU MARCH 15 INCREASE THE RATE OF STRAW MULCH TO THREE (3) TON/ACRE.

   FERTILIZER: APPLY FERTILIZER AT HALF THE RATE OF PERMANENT APPLICATION AND AS PER ODOT SPECIFICATIONS. IF PROJECT CONDITIONS PREVENT FERTILIZING THE SOIL, THEN THIS ITEM MAY BE WAIVED.
8. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
9. NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
10. IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
13. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION BY THE USE OF BEST MANAGEMENT PRACTICES. THESE AREAS MUST BE SHOWN IN THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS. AT A MINIMUM SILT FENCE TO BE PLACED AT PERIMETER OF STOCKPILE AREA TO PREVENT SOIL FROM LEAVING THE STOCKPILE AREA.
14. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.
15. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH DAY; THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR ASPHALT FOR ROAD CONSTRUCTION.
16. THE LAST LAYER OF SOIL, INCLUDING TOP SOIL SHOULD BE COMPACTED TO 80% - 85% OF THE MAXIMUM STANDARD PROCTOR DENSITY, IN AREAS OUTSIDE THE PARKING LOT THAT WILL RECEIVE VEGETATION. THIS IS PARTICULARLY IMPORTANT IN CUT SLOPE AND EMBANKMENT AREAS. IN PAVEMENT AND ISLAND AREAS, IT IS RECOMMENDED THAT THE SOIL BE COMPACTED TO 98% AND 95% OF THE MAXIMUM STANDARD PROCTOR DENSITY RESPECTIVELY; THE LAST COMPACTED LAYER MAY BE SCARIFIED TO IMPROVE THE SOIL GROWTH CHARACTERISTICS.
17. ALL DEWATERING ACTIVITIES SUCH AS PUMPING DOWN OF FLOODED FOUNDATION AND UTILITY TRENCHES MUST PASS THROUGH THE RETROFITTED DETENTION BASIN OR A SEDIMENT CONTROL PRACTICE PRIOR TO LEAVING THE SITE.
18. SILT FENCE AND OTHER PERIMETER EROSION CONTROL MEASURES SHOWN OFF LIMITS OF DISTURBANCE FOR CLARITY PURPOSES ONLY. CONTRACTOR TO ENSURE PERIMETER EROSION CONTROL MEASURES ARE PLACED AT THE LIMITS OF DISTURBANCE. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEER PRIOR TO PLACEMENT OF ANY EROSION CONTROL MEASURES.
19. CONTRACTOR TO OBTAIN A COMMERCIAL LOT EROSION & SEDIMENT CONTROL PERMIT FROM BUTLER COUNTY STORMWATER DISTRICT DURING BUILDING PERMIT REVIEW. PERMIT APPLICATION CAN BE DOWNLOADED FROM WWW.STORMWATERDISTRICT.ORG

SWPPP MAINTENANCE NOTES

1. ALL CONTROL MEASURES STATED IN THE SWPPP SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:
2. INLET PROTECTION DEVICES AND CONTROLS SHALL BE REPAIRED OR REPLACED WHEN THEY SHOW SIGNS OF UNDERMINING AND OR DETERIORATION. INLET PROTECTION DEVICES SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
3. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
4. MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, AND STORM SEWER SYSTEMS. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
7. STONE CONSTRUCTION EXIT TO BE MAINTAINED BY GENERAL CONTRACTOR UNTIL SITE HAS BEEN PAVED OR IS NO LONGER REQUIRED.
8. ALL CATCH BASIN GRATES ARE TO BE PROTECTED WITH INLET BAGS AFTER THEY ARE INSTALLED. THEY SHOULD BE ROUTINELY CLEANED AND MAINTAINED.
9. CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL
10. BRICKS, HARDENING CONCRETE AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.
11. CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY SHALL BE SUBJECT TO ANY LOCAL PROHIBITIONS FROM THIS TYPE OF DISPOSAL.
12. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN APPROVED C&DD LANDFILL. ALSO, MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS.
13. AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE, THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
14. EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
15. A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
16. ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS OR OTHER STORMWATER DRAINAGE AREAS.
17. ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
18. THE CONTRACTOR SHALL CONTACT THE OHIO EPA, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.
19. OPEN BURNING IS NOT PERMITTED ON THE SITE.
20. CONTRACTOR TO ENSURE STREETS SHALL BE CLEARED OF DEBRIS FROM SITE AND SWEPT CLEAN ON AN AS NEEDED BASIS.

QUANTITIES SUMMARY

ITEM	QUANTITY	UNIT
6" CONCRETE PAVEMENT, ON-SITE	33,538	SQ. FT.
7" CONCRETE PAVEMENT, APPROACHES	2,156	SQ. FT.
8" CONCRETE PAVEMENT, ON-SITE	1,705	SQ. FT.
CONCRETE CURB, ON-SITE/APPROACHES	915	LIN. FT.
SIDEWALK, NOT ADJACENT TO STORE	146	SQ. FT.
DETENTION SYSTEM	N/A	CU. FT.
WATER MAIN	338	LIN. FT.
SEWER SERVICE - SDR 35 (DIRECT BURY)	97	LIN. FT.
WATER SERVICE - TYPE K SOFT COPPER (DIRECT BURY)	338	LIN. FT.
STORM PIPING - HDPE	414	LIN. FT.
STORM DOWNSPOUT PIPING - PVC	411	LIN. FT.
SANITARY SEWER CLEANOUT	4	EACH
STORM SEWER CLEANOUT	6	EACH
GREASE TRAP	1	EACH
STORM STRUCTURES	5	EACH
NYLOPLAST 30" MANHOLE	1	EACH
WATER QUALITY DEVICE	N/A	EACH
EARTHWORK CUT & HAUL	TBD	CU. YD.
EARTHWORK CUT & RESPREAD	TBD	CU. YD.
EARTHWORK IMPORT & PLACE	TBD	CU. YD.
6' TALL CHAIN LINK FENCE	N/A	LIN. FT.
SOD AREA	22,096	SQ. FT.
SEED AREA	N/A	SQ. FT.
ASPHALT PAVEMENT DEMOLITION, ON-SITE	N/A	SQ. FT.
CONCRETE PAVEMENT DEMOLITION, ON-SITE	N/A	SQ. FT.
GRAVEL DEMOLITION, ON-SITE	N/A	SQ. FT.
BUILDING DEMOLITION - FRAME GARAGE	N/A	SQ. FT.
BUILDING DEMOLITION - ONE AND ONE-HALF STORY HOME	N/A	SQ. FT.
BUILDING DEMOLITION - ONE-STORY FRAME COMMERCIAL	N/A	SQ. FT.
BUILDING DEMOLITION - TWO-STORY FRAME COMMERCIAL	N/A	SQ. FT.

*CONTRACTOR TO PROVIDE A COMPLETE QUANTITIES TABLE PER THE CONSTRUCTION DOCUMENTS. QUANTITIES PROVIDED AS PART OF THIS SUMMARY ARE FOR REFERENCE PURPOSES ONLY AND ARE NOT A BASIS FOR CHANGE ORDER IF ADDITIONAL QUANTITY IS INSTALLED AS PART OF THE ORIGINAL BID DOCUMENTS.

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

GENERAL NOTES

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-002

ALTA / NSPS LAND TITLE SURVEY

3100 PRINCETON ROAD
SECTIONS 20 AN 26, TOWN 2, RANGE 3
FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO

EXHIBIT "A" LEGAL DESCRIPTION

(FROM TITLE COMMITMENT PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NUMBER NCS-968935-COL WITH AN EFFECTIVE DATE OF JULY 16, 2019 AT 7:30 AM.)

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF BUTLER, STATE OF OHIO, AND IS DESCRIBED AS FOLLOWS:

SITUATED IN SECTIONS 26 AND 20, TOWN 2, RANGE 3, FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO AND BEING A 27.499 ACRE TRACT OF LAND IN PART OF LOTS #679 AND #471 AS KNOWN AND DESIGNATED ON THE LIST OF LOTS IN SAID FAIRFIELD TOWNSHIP/INDIAN SPRINGS AND BEING FURTHER DESCRIBED AS FOLLOWS:

BEGINNING AT AN EXISTING SPIKE AT THE SOUTHEAST CORNER OF AFOREMENTIONED SECTION 26, SAID POINT BEING IN THE CENTERLINE OF PRINCETON ROAD;

THENCE ALONG THE SOUTH LINE OF SAID SECTION AND ALONG SAID CENTERLINE NORTH 89° 39' 49" WEST, 361.28 FEET;

THENCE LEAVING SAID SECTION LINE AND SAID CENTERLINE NORTH 00° 20' 11" EAST, PASSING AN EXISTING 1/2" IRON PIN IN THE FUTURE NORTHERLY RIGHT-OF-WAY LINE OF AFOREMENTIONED PRINCETON ROAD AT 50.00 FEET, 489.69 FEET TO AN EXISTING 1/2" IRON PIN;

THENCE NORTH 89° 37' 50" WEST, 498.71 FEET TO A POINT IN THE EASTERLY RIGHT-OF-WAY LINE OF WALDEN PONDS CIRCLE, SAID POINT WITNESSED BY AN EXISTING PK NAIL IN THE CENTER OF SAID WALDEN PONDS CIRCLE AT NORTH 89° 37' 50" WEST, 30.00 FEET;

THENCE ALONG SAID EASTERLY RIGHT-OF-WAY LINE NORTH 00° 22' 10" EAST, 137.79 FEET;

THENCE ALONG A 15.00 FOOT RADIUS CURVE TO THE RIGHT AN ARC LENGTH OF 23.56 FEET, A CHORD BEARING OF NORTH 45° 22' 10" EAST, A CHORD DISTANCE OF 21.21 FEET;

THENCE NORTH 00° 22' 10" EAST, 60.00 FEET TO A POINT WITNESSED BY A SET PK NAIL IN THE CENTERLINE OF AFOREMENTIONED WALDEN PONDS CIRCLE AT NORTH 89° 37' 50" WEST, 45.00 FEET;

THENCE LEAVING SAID RIGHT-OF-WAY LINE SOUTH 89° 37' 50" EAST, 642.20 FEET TO A SET 1/2" IRON PIN;

THENCE SOUTH 88° 59' 00" EAST, 200.02 FEET TO A SET 1/2" IRON PIN IN THE WESTERLY LINE OF AFOREMENTIONED SECTION 20; THENCE NORTH 89° 42' 41" EAST, 1197.65 FEET TO A SET 1/2" IRON PIN; THENCE SOUTH 00° 17' 19" EAST, 700.00 FEET TO A SET PK NAIL IN THE SOUTH LINE OF AFOREMENTIONED SECTION 20, SAID POINT BEING IN THE CENTERLINE OF AFOREMENTIONED PRINCETON ROAD;

THENCE ALONG THE SOUTH LINE OF SAID SECTION AND ALONG SAID CENTERLINE SOUTH 89° 42' 41" WEST, 1203.64 FEET TO THE POINT OF BEGINNING, CONTAINING 8,213 ACRES OF LAND IN SECTION 26 AND CONTAINING 19.286 ACRES OF LAND IN SECTION 20 FOR A TOTAL OF 1,197,851.78 SQUARE FEET OR 27.499 ACRES OF LAND.

THE ABOVE DESCRIPTION WAS PREPARED FROM A SURVEY DATED AUGUST 19, 1998 MADE BY TODD K. TURNER, REGISTERED SURVEYOR #7684 IN THE STATE OF OHIO.
THE PLAT OF WHICH IS RECORDED IN VOLUME 38, PAGE 180 OF THE BUTLER COUNTY ENGINEER'S RECORDS OF LAND SURVEYS. SAVE AND EXCEPTING THEREFROM:

SITUATED IN SECTION 20, TOWN 2, RANGE 3, FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO AND BEING A 0.080 ACRE TRACT OF LAND IN PART OF LOT #471 AS KNOWN AND DESIGNATED ON THE LIST OF LOTS IN SAID FAIRFIELD TOWNSHIP AND BEING FURTHER DESCRIBED AS FOLLOWS:

BEGINNING AT A SET 5/8" IRON PIN THE SOUTHEAST CORNER OF LOT #6913 OF SHAFER'S RUN SUBDIVISION, SECTION FIVE AS RECORDED IN ENVELOPE 3188, PAGES A-D OF THE PLAT RECORDS OF BUTLER COUNTY, OHIO AND BEING THE TRUE POINT OF BEGINNING;

THENCE ALONG SAID SOUTHERLY LINE OF SHAFER'S RUN SUBDIVISION, SECTION FIVE NORTH 89° 42' 41" EAST, 52.44 FEET TO AN EXISTING CONCRETE MONUMENT;

THENCE ALONG THE WESTERLY LINE OF SHAFER'S RUN SUBDIVISION, SECTION FIVE SOUTH 00° 17' 19" EAST, 133.53 FEET;

THENCE LEAVING SAID WESTERLY LINE NORTH 21° 43' 42" WEST, 143.46 FEET TO THE POINT OF BEGINNING, CONTAINING 3,501.05 SQUARE FEET OR 0.080 ACRES OF LAND.

THE ABOVE DESCRIPTION WAS PREPARED FROM A SURVEY DATED MAY 17, 2001 MADE BY TODD K. TURNER, REGISTERED SURVEYOR #7684 IN THE STATE OF OHIO.

THE PLAT OF SURVEY IS RECORDED IN VOLUME 41, PAGE 58 OF THE BUTLER COUNTY ENGINEER'S RECORDS AND DESCRIBED IN OR BOOK 6717, PAGE 864.

ⓑ SCHEDULE BII ITEMS:

ITEMS 1-10 & 18 ARE NOT SURVEY RELATED.

SCHEDULE BII ITEMS:

ITEM #11 EASEMENT FROM GRANT HOLLADAY CONSTRUCTION CORPORATION TO THE CITY OF HAMILTON, OHIO RECORDED OCTOBER 16, 1967 IN/AS BOOK 878, PAGE 372 OF BUTLER COUNTY RECORDS.

EASEMENTS ARE ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #12 EASEMENT FROM GRANT HOLLADAY CONSTRUCTION CORPORATION TO THE CITY OF HAMILTON, OHIO RECORDED MARCH 18, 1969 IN/AS BOOK 912, PAGE 663 OF BUTLER COUNTY RECORDS.

EASEMENTS ARE ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #13 RESERVATIONS AS CONTAINED IN WARRANTY DEED RECORDED DECEMBER 28, 1998, IN/AS OR VOLUME 6308, PAGE 886 OF BUTLER COUNTY RECORDS.

EASEMENT ADJOINS SUBJECT PARCEL AND IS SHOWN HEREON

ITEM #14 EASEMENTS, RESTRICTIONS AND REVERTER CLAUSE AS DISCLOSED IN WARRANTY DEED RECORDED DECEMBER 29, 1998, IN/AS OR BOOK 6308, PAGE 2104 OF BUTLER COUNTY RECORDS.

EASEMENT IS ON SUBJECT PARCEL AND SHOWN HEREON. DOCUMENT IS WARRANTY DEED FOR SUBJECT PARCEL

ITEM #15 UTILITY AND PUBLIC DRAINAGE EASEMENT FROM FIRST CHURCH OF GOD, INC. FKA FIRST CHURCH OF GOD OF HAMILTON, OHIO TO THE BOARD OF TOWNSHIP TRUSTEES OF FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO RECORDED DECEMBER 13, 2001 IN/AS OR BOOK 6728, PAGE 2126 OF BUTLER COUNTY RECORDS.

EASEMENT IS ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #16 INGRESS/EGRESS AND UTILITY EASEMENT FROM FIRST CHURCH OF GOD, INC. FKA FIRST CHURCH OF GOD OF HAMILTON, OHIO TO THE BOARD OF TOWNSHIP TRUSTEES OF FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO RECORDED DECEMBER 13, 2001 IN/AS OR BOOK 6728, PAGE 2130 OF BUTLER COUNTY RECORDS.

EASEMENT IS ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #17 GRANT OF EASEMENT FROM FIRST CHURCH OF GOD OF HAMILTON OHIO TO DUKE ENERGY OHIO, INC. RECORDED AUGUST 23, 2007 IN/AS BOOK 7933, PAGE 411 OF BUTLER COUNTY RECORDS.

EASEMENT LOCATION CANNOT BE DETERMINED FROM THE RECORD DOCUMENT
DOCUMENT REFERENCES BUTLER COUNTY ROAD PLANS PRINCETON ROAD PROJECT #I0018-01.298 PART II WHICH WAS NOT PROVIDED

ITEM #19 EASEMENT FOR ROAD PURPOSES FROM FIRST CHURCH OF GOD OF HAMILTON, OHIO TO BOARD OF COMMISSIONERS, BUTLER COUNTY, OHIO RECORDED OCTOBER 01, 2007 IN/AS BOOK 7945, PAGE 1733 OF BUTLER COUNTY RECORDS.

EASEMENT IS ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #20 RECIPROCAL DRIVEWAY EASEMENT AND MAINTENANCE AGREEMENT BY AND AMONG HARRY THOMAS, JR., FIRST CHURCH OF GOD OF HAMILTON AND JDL-HAMILTON, LLC AS DISCLOSED BY THE DOCUMENT RECORDED JULY 29, 2002 IN/AS OR BOOK 6862, PAGE 1815 OF BUTLER COUNTY RECORDS.

EASEMENTS ADJOIN SUBJECT PARCEL AND ARE SHOWN HEREON

ITEM #21 EASEMENTS AS SHOWN ON SURVEY PLAT RECORDED IN PLAT BOOK 35, PAGE 180 OF BUTLER COUNTY RECORDS.

EASEMENTS ARE ON SUBJECT PARCEL AND SHOWN HEREON

ITEM #22 EASEMENTS AS SHOWN ON SURVEY PLAT RECORDED IN PLAT BOOK 36, PAGE 49 OF BUTLER COUNTY RECORDS.

EASEMENT ADJOINS SUBJECT PARCEL AND IS SHOWN HEREON

ITEM #23 EASEMENTS AS SHOWN ON SURVEY PLAT RECORDED IN PLAT BOOK 34, PAGE 51 OF BUTLER COUNTY RECORDS.

EASEMENT ADJOINS SUBJECT PARCEL AND IS SHOWN HEREON

ITEM #24 RESERVATIONS, UTILITY AND DRAINAGE EASEMENTS AS CONTAINED IN GENERAL WARRANTY DEED RECORDED JANUARY 03, 1998, IN/AS OR VOLUME 6194, PAGE 1896 OF BUTLER COUNTY RECORDS.

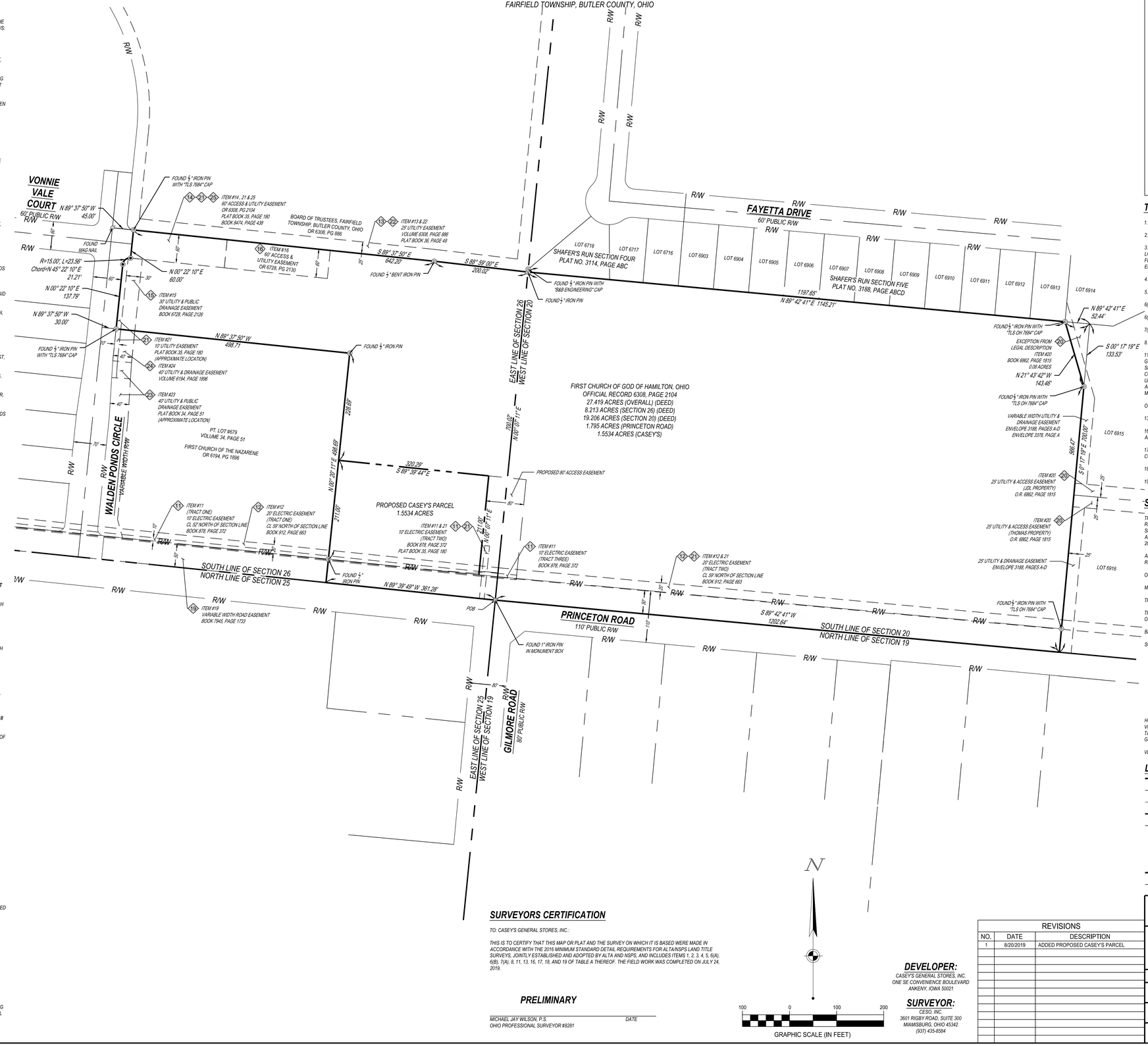
EASEMENT ADJOINS SUBJECT PARCEL AND IS SHOWN HEREON

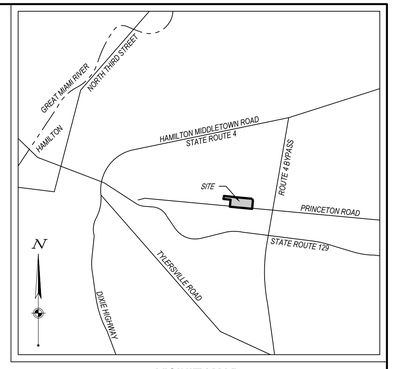
ITEM #25 OPEN-END MORTGAGE, SECURITY AGREEMENT AND ASSIGNMENT OF RENTS AND LEASES FROM THE FIRST CHURCH OF GOD OF HAMILTON TO WESLEYAN INVESTMENT FOUNDATION INC., TO SECURE $2,460,000.00, FILED FOR RECORD AUGUST 03, 2012 IN/AS BOOK 8474, PAGE 438 OF BUTLER COUNTY RECORDS, COVERING PREMISES DESCRIBED IN SCHEDULE A, TOGETHER WITH ANY AND ALL TERMS, CONDITIONS AND RESTRICTIONS CONTAINED THEREIN.

EASEMENT IS ON SUBJECT PARCEL AND SHOWN HEREON

UTILITY DISCLAIMER:

THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARENTEE THAT THE UTILITIES LOCATED HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFIY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.





VICINITY MAP:

NOT TO SCALE

TABLE A ITEMS

1. MONUMENTS FOUND OR SET AS SHOWN.

2. ADDRESS: 3100 PRINCETON ROAD.

3. BY INFORMATION PROVIDED BY FEMA FLOOD MAP SERVICE CENTER, THIS PROPERTY WAS FOUND TO BE LOCATED WITHIN FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, BY THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 3901C0194E, WHICH BEARS AN EFFECTIVE DATE OF DECEMBER 17, 2010.

4. GROSS LAND AREA AS SHOWN.

5. VERTICAL DATUM ESTABLISHED USING GEOID 12B.

6(a). ZONING CLASSIFICATION NOT PROVIDED BY THE INSURER.

6(b). ZONING SETBACKS NOT PROVIDED BY THE INSURER.

7(a). NO BUILDINGS LOCATION WITHIN LIMITS OF TOPOGRAPHIC SURVEY.

8. SUBSTANTIAL FEATURES OBSERVED IN THE PROCESS OF CONDUCTING THE SURVEY ARE AS SHOWN.

11. UTILITIES ARE DEPICTED IN ACCORDANCE TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. UTILITIES AS SHOW WERE FROM OBSERVED EVIDENCE TOGETHER WITH EVIDENCE FROM PLANS FROM UTILITY COMPANIES, OR PROVIDED BY CLIENT. NOTE - LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABILITY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY.

OUPS UTILITY LOCATE ORDER A920300622.

13. NAMES OF ADJOINERS AS SHOWN.

16. NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS AT THE TIME OF THIS SURVEY.

17. NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES. NO EVIDENCE OF STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED AT TIME OF SURVEY.

18. A FIELD DELINEATION OF WETLANDS SURVEY WAS NOT CONDUCTED AT THE TIME OF SURVEY.

19. PLOTTABLE OFFSITE EASEMENTS PROVIDED AS SHOWN.

SURVEYORS NOTES:

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION REGARDING RECORD EASEMENTS AND OTHER DOCUMENTS THAT MIGHT AFFECT THE QUALITY OF TITLE TO THE PARCEL SHOWN HEREON WERE OBTAINED THROUGH A CERTIFIED TITLE COMMITMENT CONDUCTED BY FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NUMBER NCS-968935-COL WITH AN EFFECTIVE DATE OF JULY 16, 2019 AT 7:30 AM.

ALL DATA SOURCES, DOCUMENTS AND RECORDS SHOWN HEREON ARE ON FILE IN THE BUTLER COUNTY RECORDERS OFFICE LOCATED IN HAMILTON, OHIO.

OCCUPATION IN GENERAL MATCHED THE SURVEY

MONUMENTS FOUND ARE IN GOOD CONDITION UNLESS NOTED OTHERWISE

THIS IS NOT A RECORDABLE DOCUMENT FOR TRANSFER OF TITLE

THIS SURVEY MEETS ALL OF THE ACCURACY REQUIREMENTS FOR BOUNDARY SURVEYS AS SET FORTH BY O.A.C. 4733-33.

BASIS OF BEARINGS - OFFICIAL RECORD 6308, PAGE 2104

SOURCE DOCUMENTS USED:
SHAFER'S RUN SECTION ONE
PLAT ENVELOPE 3114, PACES A-C (SHAFER'S RUN SECTION FOUR)
PLAT ENVELOPE 3188, PAGES A-D (SHAFER'S RUN SECTION FIVE)
PLAT ENVELOPE 3360, PAGES A-B (INDIAN SPRINGS MARKET CENTER)
PLAT ENVELOPE 3378, PAGE A (NEW LOTS #7645 & #7646)
OFFICIAL RECORD 8085, PAGE 2068 (PRINCETON & GILMORE SUBDIVISION)
BOOK 6308, PAGE 899 (NEW LOT #9156 & LOT #9157)
BOOK 8980, PAGE 1569 (NEW LOT #9162, #9163, & #9164)
VOLUME 41, PAGE 58 (PLAT OF SURVEY PT. LOT #471)
VOLUME 46, PAGE 92 (PLAT OF SURVEY 1.3125 ACRE TRACT)

HORIZONTAL DATUM - U.S. STATE PLANE, NAD83 OHIO SOUTH (3402) ESTABLISHED FROM UTILIZING THE OHIO VIRTUAL REFERENCE STATION PROVIDED BY THE OHIO DEPARTMENT OF TRANSPORTATION. COORDINATES TAKEN TO GROUND AT LATITUDE N39°23'29.50770", LONGITUDE W84°30'52.23653", PROJECT HEIGHT 646.699' GROUND SCALE FACTOR 1.000095015646.

VERTICAL DATUM - NAVD88 COMPUTED USING GEOID 12B

LEGEND:

- PROPERTY BOUNDARY
- ADJOINER PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- SECTION LINE
- EASEMENT LINE
- FOUND IRON PIN
- SET IRON PIN
- FOUND MAG NAIL
- PROPOSED PROPERTY LINE
- PROPOSED EASEMENT LINE

SURVEYORS CERTIFICATION

TO: CASEY'S GENERAL STORES, INC.:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(A), 6(B), 7(A), 8, 11, 13, 16, 17, 18, AND 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 24, 2019.

PRELIMINARY

MICHAEL JAY WILSON, P.S. *DATE*
OHIO PROFESSIONAL SURVEYOR #8281

GRAPHIC SCALE (IN FEET)
100 0 100 200

DEVELOPER:
CASEY'S GENERAL STORES, INC.
ONE SE CONVENIENCE BOULEVARD
ANKENY, IOWA 50021

SURVEYOR:
CESO, INC.
3601 RIGBY ROAD, SUITE 300
MIAMISBURG, OHIO 45342
(937) 435-8584

REVISIONS		
NO.	DATE	DESCRIPTION
1	8/20/2019	ADDED PROPOSED CASEY'S PARCEL

ALTA/NSPS LAND TITLE SURVEY

CASEY'S GENERAL STORES

3100 PRINCETON ROAD
FAIRFIELD TOWNSHIP

SECTIONS 20 & 26, TOWN 2, RANGE 3
BUTLER COUNTY, OHIO

SCALE: 1"=100'
DATE: 8/7/2019
DESIGN: N/A
DRAWN: DMT
CHECKED: MJW
JOB NO.: 756995
SHEET NO.: C-003

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W:\PROJECTS\CASEYS\756995-HAMILTON OH\04-SURVEY\DWG\756995-ALTA.DWG - 8/20/2019 8:45 AM

LEGEND:

- PROPERTY BOUNDARY
- ADJOINER PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- SECTION LINE
- EASEMENT LINE
- FOUND IRON PIN
- SET IRON PIN
- FOUND MAG NAIL
- BENCHMARK
- (R) — RECORD DATA
- EXISTING EDGE OF PAVEMENT
- EXISTING CONCRETE CURB & GUTTER
- EXISTING EDGE OF WALK
- 500 — EXISTING MAJOR CONTOUR
- 501 — EXISTING MINOR CONTOUR
- STM — EXISTING STORM SEWER
- EXISTING CURB INLET
- EXISTING STORM SEWER MANHOLE
- SAN — EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SIGN
- EXISTING GAS VALVE
- OHL — EXISTING OVERHEAD UTILITY WIRES
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- W — EXISTING WATERLINE
- G — EXISTING GAS LINE
- PROPOSED PROPERTY LINE
- PROPOSED EASEMENT LINE

BENCHMARKS

BM#1191: BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009. NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING. ELEVATION=741.20

BM#1270: BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN. ELEVATION=754.09

BM#1514: CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AN GILMORE ROAD INTERSECTION. ELEVATION=757.78

PT. LOT #679
VOLUME: 34, PAGE 51

FIRST CHURCH OF THE NAZARENE
OR 6194, PG 1896

FIRST CHURCH OF GOD OF HAMILTON, OHIO
OFFICIAL RECORD 6308, PAGE 2104
27.419 ACRES (OVERALL) (DEED)
8.213 ACRES (SECTION 26) (DEED)
19.206 ACRES (SECTION 20) (DEED)
1.795 ACRES (PRINCETON ROAD)
1.5534 ACRES (CASEY'S)

PROPOSED CASEY'S PARCEL
1.5534 ACRES

228.69'
N 00° 29' 11" E 498.69'
271.00'
320.29'
S 89° 39' 44" E
220.02'
N 00° 09' 11" E
214.00'
N 00° 09' 11" E
N 89° 39' 49" W 361.08'

EAST LINE OF SECTION 26
WEST LINE OF SECTION 20

EAST LINE OF SECTION 25
WEST LINE OF SECTION 19

SOUTH LINE OF SECTION 26
NORTH LINE OF SECTION 25

PROPOSED 80' ACCESS EASEMENT

80'

ASPHALT

ITEM #12
20' ELECTRIC EASEMENT
(TRACT ONE)
CL 59' NORTH OF SECTION LINE
BOOK 912, PAGE 663

ITEM #11 & 21
10' ELECTRIC EASEMENT
(TRACT TWO)
BOOK 678, PAGE 372
PLAT BOOK 35, PAGE 180

ITEM #11
10' ELECTRIC EASEMENT
(TRACT THREE)
BOOK 678, PAGE 372

ITEM #12 & 21
20' ELECTRIC EASEMENT
(TRACT TWO)
CL 59' NORTH OF SECTION LINE
BOOK 912, PAGE 663

BM#1191=741.20'

FOUND ¾" IRON PIN

CURB INLET
RIM=744.06
12" S CPP INV=740.49

DIRECTIONAL SIGN

12" DIP WATERLINE
(PER RECORD)

KEEP RIGHT

ONE WAY

CONC. ISLAND

STORM MANHOLE
RIM=744.64
12" N CPP INV=737.39
12" E CPP INV=739.60
12" W CPP INV=736.74

CURB INLET
RIM=746.31
12" W CPP INV=742.46

12" GAS LINE
(PER RECORD)

BM#1270=754.09'

12" DIP WATERLINE
(PER RECORD)

TRAFFIC SIGNAL EQUIPMENT

TRAFFIC SIGNAL POLE

12" CPP
INV=751.61

TRAFFIC SIGNAL POLE

THRU TRAFFIC KEEP LEFT

12" CPP INV=752.47

TRAFFIC SIGNAL POLE

BM#1514=757.78'

CURB INLET
RIM=757.92
12" S CPP INV=750.92

FOUND 1" IRON PIN IN MONUMENT BOX

CURB INLET
RIM=757.74
12" N CPP INV=750.74
12" E CPP INV=753.54
15" S CPP INV=749.84

TRAFFIC SIGNAL POLE

PRINCETON ROAD
110' PUBLIC R/W

GILMORE ROAD
80' PUBLIC R/W

30' | 18.5' | 21.5' | 50' | 110'

N

GRAPHIC SCALE (IN FEET)
30 0 30 60

REVISIONS		
NO.	DATE	DESCRIPTION
1	8/20/2019	ADDED PROPOSED CASEY'S PARCEL

ALTA/NSPS LAND TITLE SURVEY

CASEY'S - HAMILTON, OHIO

3100 PRINCETON ROAD
FAIRFIELD TOWNSHIP

SECTIONS 20 & 26, TOWN 2, RANGE 3
BUTLER COUNTY, OHIO

SCALE: 1"=30'

DATE: 8/7/2019

DESIGN: N/A

DRAWN: DMT

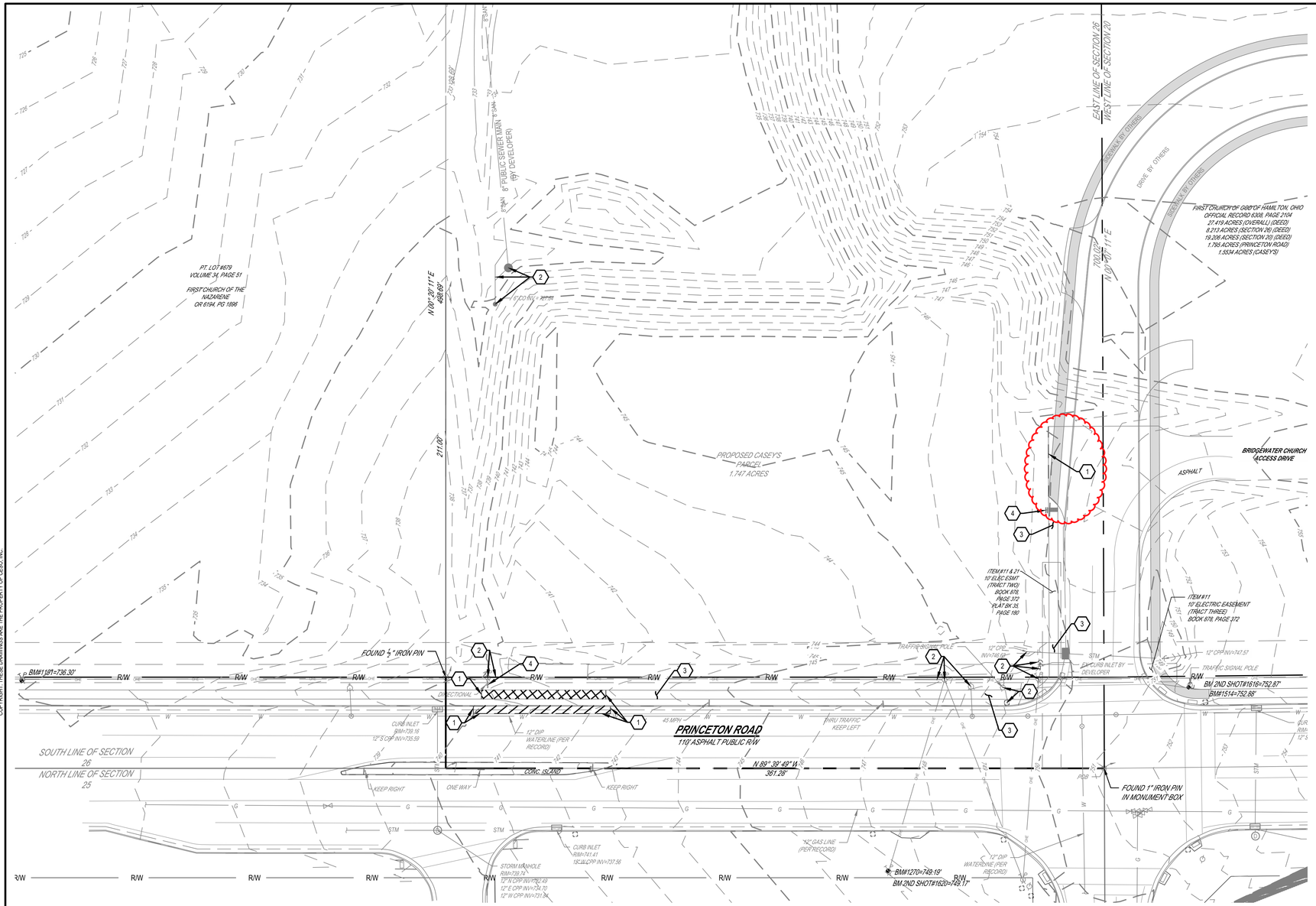
CHECKED: MJW

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JOB NO.: 756995

SHEET NO.: C-004

W:\PROJECTS\CASEYS\756995-HAMILTON OH\04-SURVEY\DWG\756995-ALTA.DWG - 8/20/2019 8:46 AM



LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER

REMOVE AND DISPOSE OF EXISTING SIDEWALK

CODED NOTES:

1. SAW-CUT LINE FOR EXISTING CURB/WALK TO BE REMOVED.
2. PROTECT EXISTING UTILITY / UTILITY STRUCTURE.
3. PROTECT EXISTING SIDEWALK TO REMAIN.
4. PROTECT EXISTING TRAFFIC SIGN TO REMAIN.

N

30 0 30 60

GRAPHIC SCALE (IN FEET)

BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009. NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

Casey's

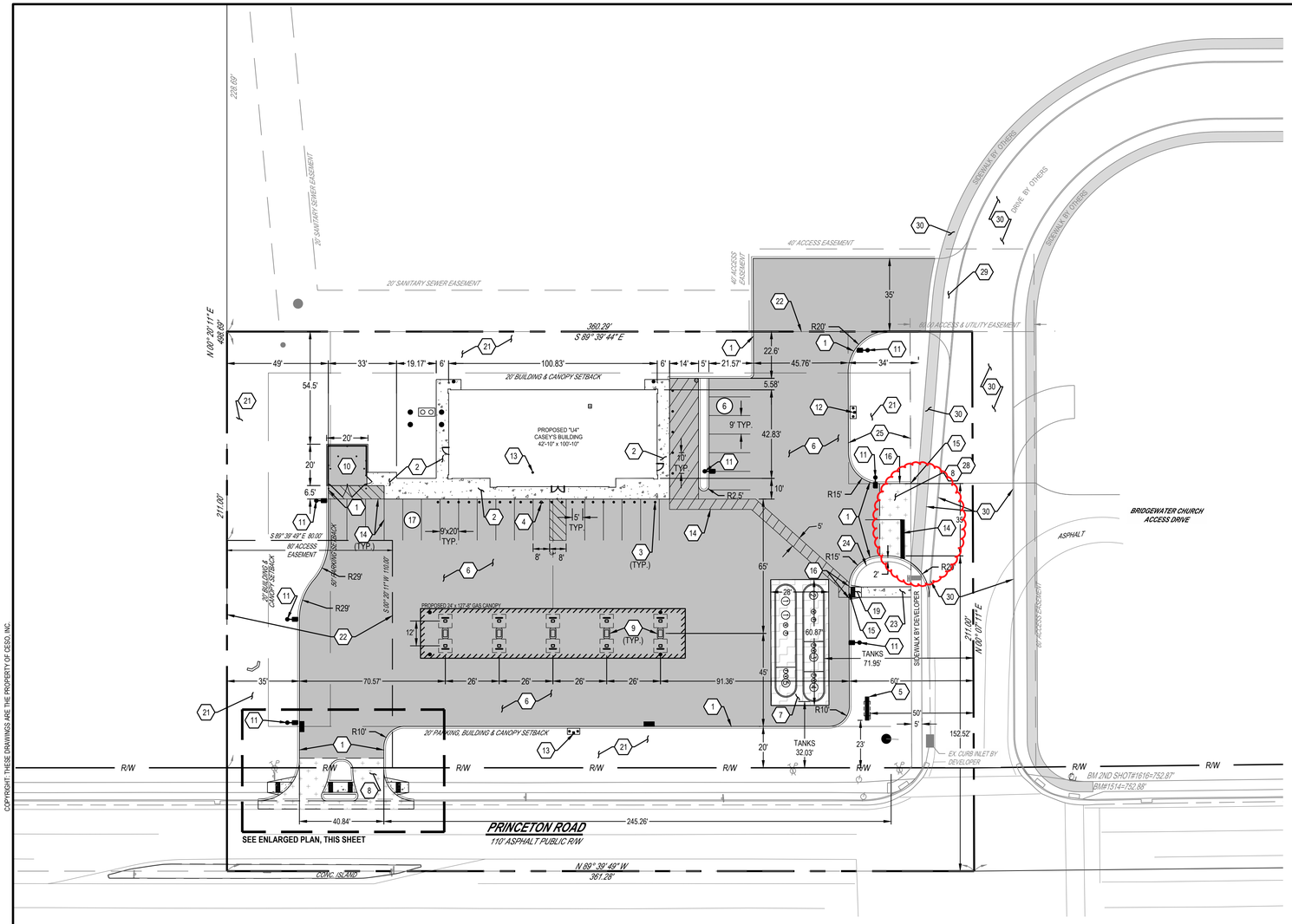
CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

DEMOLITION PLAN

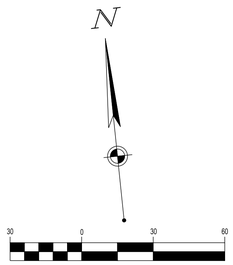
ISSUE: CIVIL PERMIT SET	
DATE:	05.19.2021
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-100

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ENLARGED PLAN: RIGHT-IN / RIGHT-OUT DRIVE AREA
SCALE: 1" = 10'



GRAPHIC SCALE (IN FEET)

LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

- BUILDING
- CANOPY
- CONCRETE CURB
- PAVEMENT/WALK
- PAVEMENT DELINEATION
- EASEMENT LINE
- STANDARD CONCRETE PAVEMENT (SIDEWALK)
- STANDARD CONCRETE PAVEMENT (PARKING)
- APPROACH CONCRETE PAVEMENT
- UGST AREA HEAVY-DUTY CONCRETE PAVEMENT
- PARKING SPACE COUNT (7)
- SIGN
- LIGHT POLE
- CONCRETE BOLLARD
- STORM STRUCTURE
- CLEANOUT

CODED NOTES:

1. PROPOSED 6" INTEGRAL CURB. SEE DETAIL 2 ON SHEET C-601.
2. PROPOSED SIDEWALK. SEE DETAIL 1 ON SHEET C-601.
3. CASEY'S TYPICAL BOLLARD. SEE DETAIL 1 ON SHEET C-601.
4. CONTRACTOR TO INSTALL HANDICAPPED SIGN PER DETAIL 12 ON SHEET C-601 AND ACCORDING TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
5. CASEY'S MONUMENT SIGN, PER SIGNAGE PLAN.
6. PROPOSED STANDARD CONCRETE PARKING PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
7. PROPOSED UGST AREA HEAVY DUTY CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
8. PROPOSED APPROACH CONCRETE PAVEMENT. SEE DETAIL 2 ON SHEET C-601.
9. PROPOSED GAS TAPERED FUEL ISLAND. SEE DETAIL 1 ON SHEET C-602.
10. PROPOSED 20' X 20' DUMPSTER AND PAD. SEE ARCHITECTURAL PLANS FOR DETAILS.
11. PROPOSED SITE LIGHT POLE. SEE PHOTOMETRIC PLAN FOR DETAILS AND DETAIL ON SHEET C-603.
12. AIR COMPRESSOR BOX, MOUNTED TO STEEL POLE, INSTALLED ON CONCRETE PAD 16" FROM BACK OF CURB. 110 VOLT-60HZ-5.5 AMP. 8 GAUGE MIN. RECOMMENDED.
13. EMERGENCY SHUTOFF FOR GASOLINE DISPENSERS. ALL DISPENSERS FALL WITHIN A 100 FOOT RADIUS OF SHUTOFF.
14. PROPOSED PAVEMENT MARKINGS.
15. FLUSH CURB.
16. TRANSITION CURB FROM FLUSH TO FULL HEIGHT IN 12".
17. PROPOSED DRIVEWAY CURB ISLAND. SEE DETAIL 5 ON SHEET C-601.
18. PROPOSED CURB AND GUTTER PER BUTLER COUNTY STANDARDS.
19. PROPOSED CURB RAMP WITH DETECTABLE WARNING SURFACE PER ODOT STD DWG BP-7.1
20. PROPOSED 5' SIDEWALK WITH DETECTABLE WARNING SURFACE WITHIN RIGHT-OF-WAY PER ODOT STD DWG BP-7.1
21. PROPOSED GREENSPACE FOR B-PUD OPEN SPACE REQUIREMENT.
22. PROPOSED CROSS-ACCESS EASEMENT FOR FUTURE DEVELOPMENT.
23. PROPOSED CONCRETE SIDEWALK PER BUTLER COUNTY STANDARDS.
24. PROPOSED LANDSCAPE PROTECTOR. SEE DETAIL 4 ON SHEET C-601.
25. PROPOSED 30' TEMPORARY GRADING EASEMENT FOR WORK BY OTHERS.
26. PROPOSED 3" INTEGRAL CURB FOR EMERGENCY SPILLWAY. REFER TO C-201 FOR FURTHER DETAIL.
27. TRANSITION CURB FROM 3" TO FULL HEIGHT IN 12". REFER TO C-201 FOR FURTHER DETAIL.
28. PHASE I DRIVE-WAY (TO BE REMOVED UPON EXTENSION OF SERVICE DRIVE).
29. PHASE II DRIVE-WAY, UPON EXTENSION OF SERVICE DRIVE.
30. PHASE II ROAD AND SIDEWALK BY OTHERS.

SITE DATA	
TOTAL SITE AREA	1.747 AC (76,099 SF)
PROPOSED IMPERVIOUS AREA	1.018 AC (44,364 SF, 58%)
PROPOSED OPEN SPACE AREA	0.729 AC (31,735 SF, 42%)

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2	05/25/2022	CANOPY REDUCTION REVISION
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STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

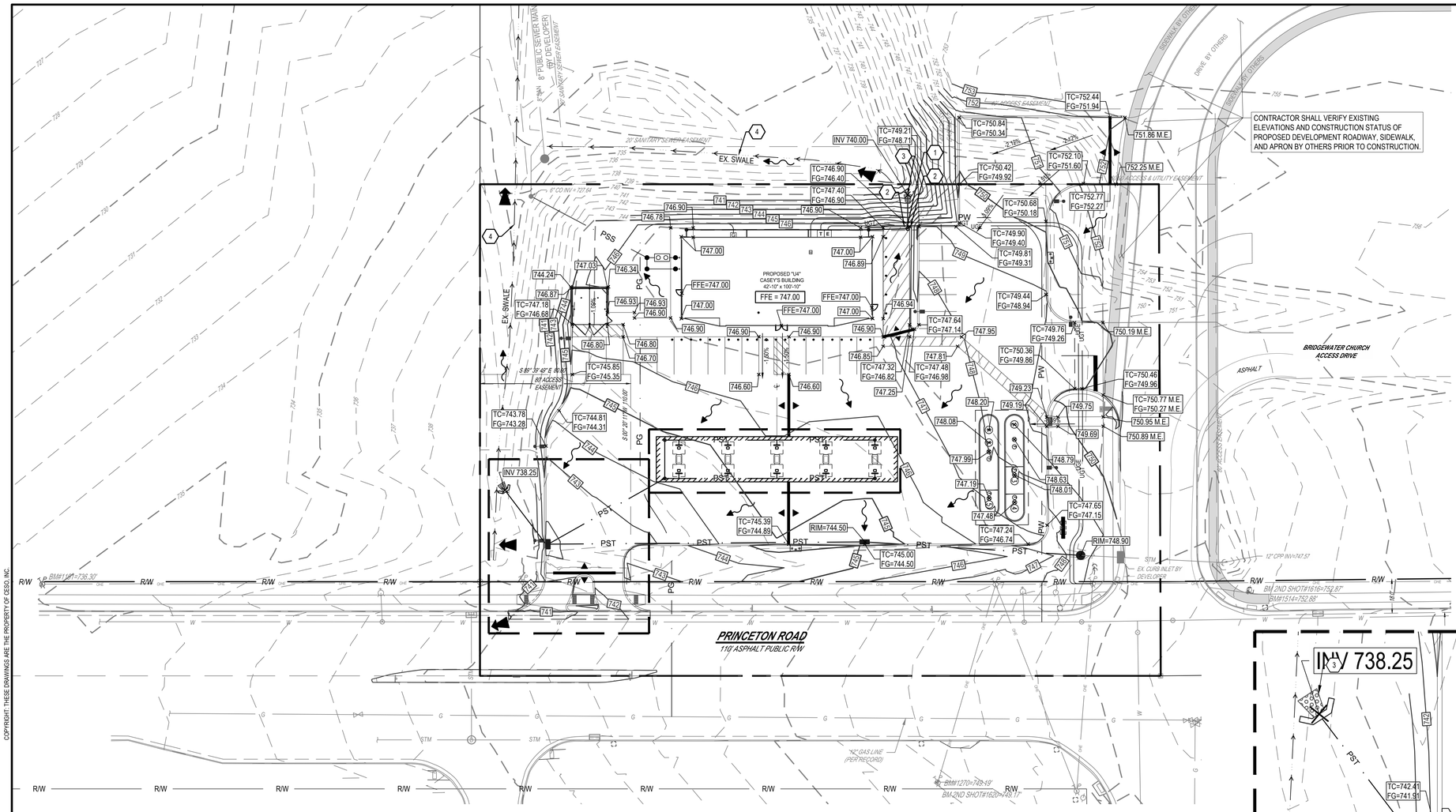
SITE PLAN

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021

JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-101

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LEGEND

EXISTING

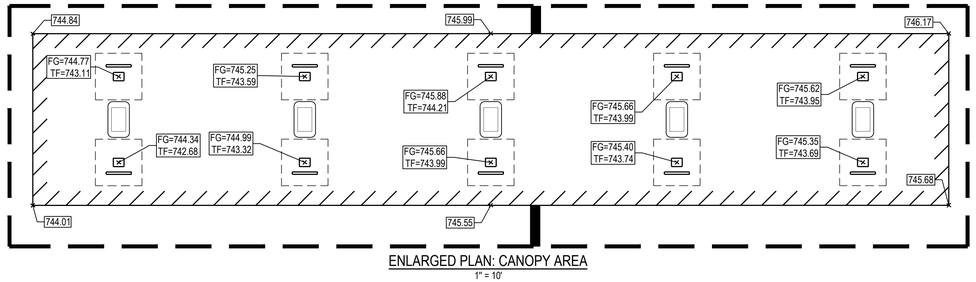
REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

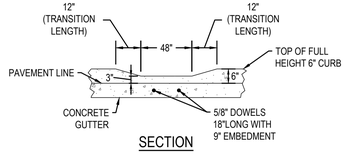
- BUILDING
- CANOPY
- EASEMENT LINE
- 320 — MAJOR CONTOUR
- 322 — MINOR CONTOUR
- PST — STORM SEWER
- SWALE
- REFER TO ENLARGED PLAN, SHEET C-202
- CLEAN OUT
- MANHOLE
- NYLOPLAST DRAIN BASIN
- CURB INLET
- HEADWALL
- XXX.XX — FINISHED GRADE SPOT ELEVATION
- TC=XXX.XX / FG=XXX.XX — TOP OF CURB ELEV. / FINISHED GRADE ELEV.
- FG=XXX.XX / TF=XXX.XX — FINISHED GRADE ELEV. / TOP OF FOOTING ELEV.
- RIM=XXX.XX — RIM ELEVATION
- INV=XXX.XX — INVERT ELEVATION
- GRADE BREAK
- M.E. — MATCH EXISTING ELEVATION
- FFE — FINISHED FLOOR ELEVATION
- X.XX% — SLOPE ARROW
- FLOW ARROW
- FLOOD ROUTE
- SCOUR MAT

CODED NOTES:

1. PROPOSED 4-FT WIDE EMERGENCY SPILLWAY. REFER TO DETAIL, THIS SHEET.
2. TRANSITION CURB FROM 3" TO FULL HEIGHT IN 12". REFER TO DETAIL, THIS SHEET.
3. ROCK CHANNEL PROTECTION, TYPE 'D'.
4. EXISTING SWALE BY DEVELOPER.



ENLARGED PLAN: CANOPY AREA
1" = 10'



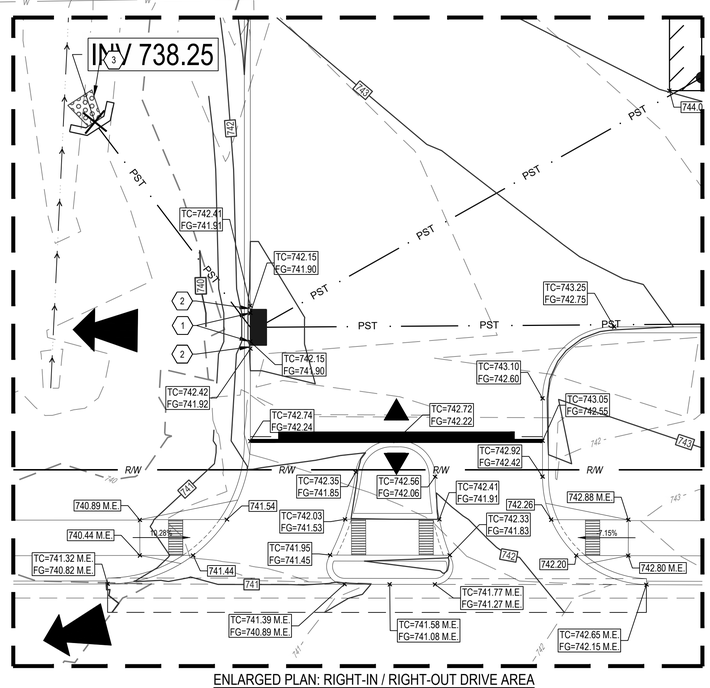
SECTION

NOTES:

1. CONTRACTOR TO ENSURE EMERGENCY SPILLWAY ELEVATIONS MATCH SPOT ELEVATIONS DENOTED ON PLAN..

4-FT WIDE EMERGENCY SPILLWAY
W/ 3" VERTICAL OPENING IN CURB

NTS



ENLARGED PLAN: RIGHT-IN / RIGHT-OUT DRIVE AREA
1" = 10'

BENCHMARK		
	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009, NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE, LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88

NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

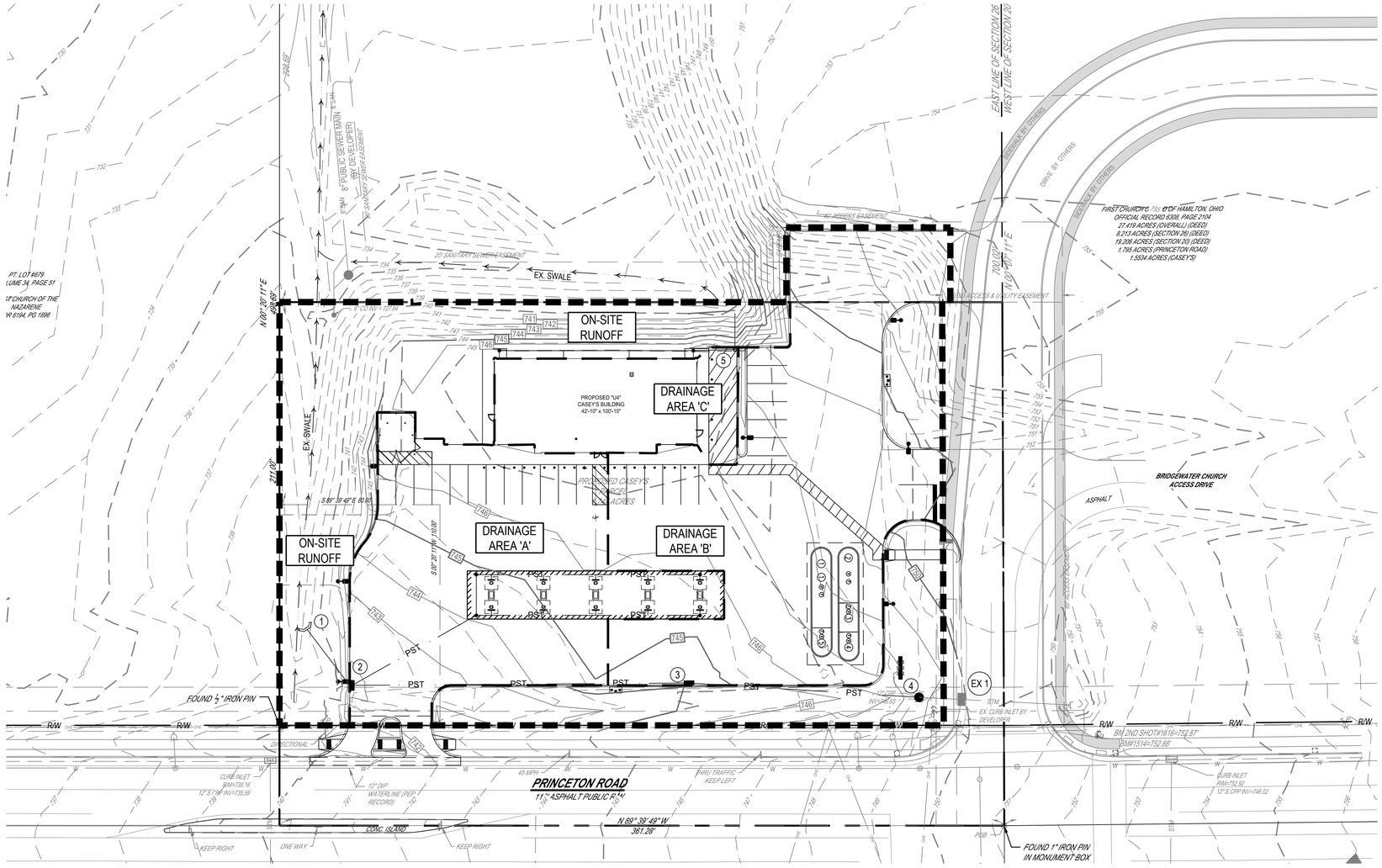
GRADING PLAN

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021

JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-201

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STORM SEWER CALCULATIONS

Inlet Location	Runoff Coefficient "C"	Drainage Area "A"	C*A	Σ(C*A)	Inlet or Conduit Travel Time	Time of Concentration	Rainfall Intensity 10 year Storm	Runoff Q=1*Σ(C*A)	Other Controlled Runoff	Total Runoff "Q"	Pipe Diameter	Length "L"	% Slope	Inv. of Inlet	Inv. of Outlet	Full Capacity	Velocity	Cover	Rainfall Intensity 10 year Storm	Total Runoff "Q"	% Slope	Head Loss	Elevation of Hydraulic Gradient	Top of Casting
		Acres			Min.	Min.	in./hr.	cfs.	cfs.	cfs.	in.	ft.				cfs.	fps.	ft.	in./hr.	cfs				
Storm Profile 1 - EX 1																								
EX 1	0.53	0.84	0.45	0.45	0.1	10.0	5.36	2.41		**2.41**					746.78				5.36	2.4				750.35
											12	21.2	1.23			**3.96**	5.0	2.57			0.45%	0.10		
4				0.45	0.6	10.0	5.36	2.41		**2.41**					739.52				5.36	2.4			740.59	747.59
											12	114.9	0.50			**2.53**	3.2	7.07			0.45%	0.52		
3	0.90	0.59	0.53	0.98	0.8	10.0	5.36	5.25		**5.25**					738.95				5.36	5.3			740.07	744.50
											18	168	0.30			**5.77**	3.3	4.05			0.25%	0.42		
2	0.95	0.41	0.39	1.37	0.1	10.0	5.36	7.34		**7.34**					738.45				5.36	7.3			739.65	741.90
											18	36.6	0.55			**7.81**	4.4	1.95			0.48%	0.18		
1				1.37		10.0	5.36	7.34		**7.34**					738.25				5.36	7.3			739.45	740.00
SWALE																								
Storm Profile 5-6																								
5	0.95	0.13	0.12	0.12	0.1	10.0	5.36	0.64		**0.64**					740.36				5.36	0.6			740.61	746.40
											6	18	2.00			**0.80**	4.1	5.54			1.14%	0.21		
OUT				0.12		10.0	5.36	0.64		**0.64**				740.00	740.00				5.36	0.6			740.40	741.00
SWALE																								

POST-DEVELOPED DRAINAGE CALCULATIONS

HYDROGRAPH NAME	PERVIOUS AREA; LAWN (SOIL GROUP - C; C=0.40) [ACRES]	IMPERVIOUS AREA; PAVEMENT (ALL SOIL GROUPS; C = 0.95) [ACRES]	TOTAL AREA [ACRES]	WEIGHTED RUNOFF COEFFICIENT, Cw
DRAINAGE AREA TO EX. 1 STRC	0.64	0.20	0.84	0.53
DRAINAGE AREA 'A' TO STRC 2	0.00	0.41	0.41	0.95
DRAINAGE AREA 'B' TO STRC 3	0.05	0.54	0.59	0.90
DRAINAGE AREA 'C' TO STRC 5	0.00	0.13	0.13	0.95

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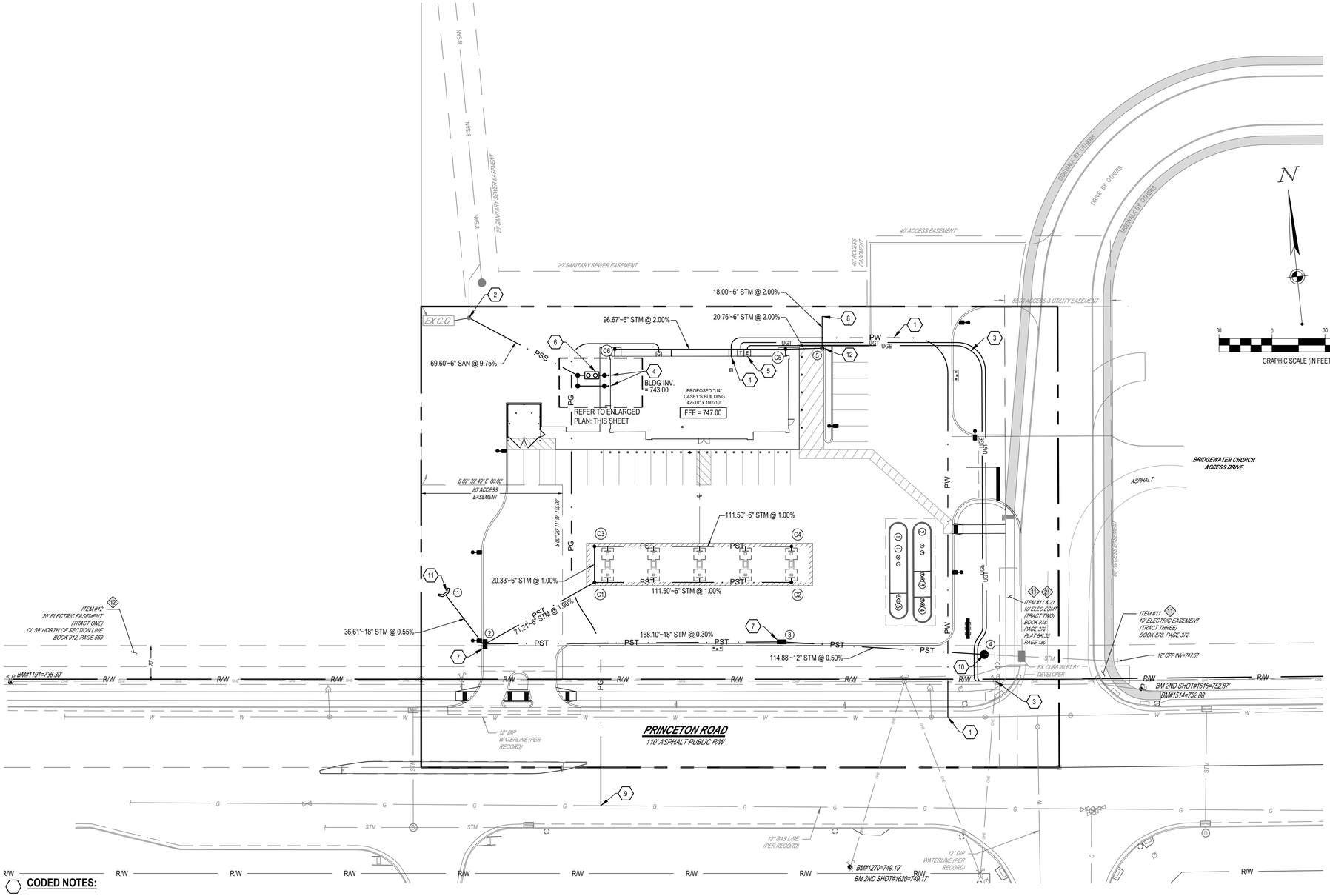
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

TRIBUTARY AREA MAP

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO. C-202

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LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

- BUILDING
- CANOPY
- PST — STORM SEWER
- PSS — SANITARY SEWER
- PW — DOMESTIC WATER SERVICE
- PG — GAS SERVICE
- UGE — UNDERGROUND ELEC. LINE
- UGT — UNDERGROUND TEL. LINE
- CLEAN OUT
- G — GAS METER
- W — WATER METER
- T E — ELECTRICAL SERVICE ENTRANCE
- GREASE INTERCEPTOR
- MANHOLE
- CURB INLET
- NYLOPLAST DRAIN BASIN
- HEADWALL

SANITARY SEWER STRUCTURE SCHEDULE

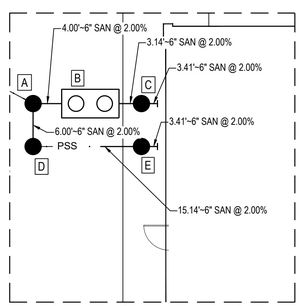
NO.	STRUCTURE	RIM	INVERT
EX C.O.	6" CO	741.15	738.58 (6") SE 729.94 (6") NW
A	6" CO	746.26	742.54 (6") E 742.51 (6") S 738.29 (6") NW
B	GREASE INTERCEPTOR	746.31	742.87 (6") E 742.62 (6") W
C	6" CO	746.91	742.93 (6") E 742.93 (6") W
D	6" CO	746.42	742.63 (6") E 742.63 (6") N
E	6" CO	746.93	742.93 (6") E 742.93 (6") W

STORM SEWER STRUCTURE SCHEDULE

NO.	STRUCTURE	GRATE	INVERT
1	ODOT HW 2.1	N/A	738.25 (18") SE
2	ODOT CB 3A	741.90	738.45 (18") E 740.25 (6") NE 738.45 (18") NW
3	ODOT CB 3A	744.50	738.95 (12") E 738.95 (18") W
4	ODOT MH 1.1	748.90	746.63 (12") E 739.52 (12") W
5	ADS NYLOPLAST 18" DRAIN BASIN W/ 24" SUMP	746.40	740.36 (6") W 740.36 (6") N
C1	6" CLEAN OUT	741.57	740.96 (6") E 740.96 (6") N 740.96 (6") SW
C2	6" CLEAN OUT	742.64	742.08 (6") W
C3	6" CLEAN OUT	741.78	741.16 (6") E 741.17 (6") S
C4	6" CLEAN OUT	742.85	742.28 (6") W
C5	6" CLEAN OUT	746.92	740.78 (6") W 740.78 (6") E
C6	6" CLEAN OUT	746.90	742.71 (6") E
EX 1	EX CULVERT	747.82	746.71 (12") W

CODED NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL 2" COPPER TUBE SIZE POLYETHYLENE PIPING FROM METER TO NEW 2" TAP. CONTRACTOR IS RESPONSIBLE FOR ALL WORK PERMITS WITHIN THE PUBLIC RIGHT-OF-WAY. NEW WATER TAPS WILL NEED TO BE INSTALLED AT WATER MAIN. CONTRACTOR MUST OBTAIN A UTILITY PERMIT FROM BUTLER COUNTY ENGINEER'S OFFICE (BCEO), MARK CONNER. SEE WEBSITE: HTTPS://HH.PERMITS/BCEO.ORG/
2. CONNECT 6" SDR-35 PVC SANITARY SERVICE TO EXISTING SANITARY SEWER CLEANOUT PER BUTLER COUNTY STANDARDS. CONTRACTOR TO FIELD LOCATE AND VERIFY EXISTING SANITARY SEWER LINE. CONTRACTOR TO PROVIDE ALL NECESSARY FITTINGS FOR FINAL CONNECTION. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES.
3. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL PRIMARY RISER AS REQUIRED TO PROVIDE ELECTRICAL SERVICE TO THE PROPOSED BUILDING. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR AND THE LOCAL UTILITY COMPANY TO INSTALL NEW POLE MOUNTED TRANSFORMER.
4. COORDINATE UTILITIES WITH PLUMBING CONTRACTOR, CAP AND MARK FOR FUTURE CONNECTION. FINAL CONNECTION BY PLUMBING CONTRACTOR.
5. ELECTRICAL SERVICE ENTRANCE. ELECTRIC 3-PHASE 800 AMP, 120/208 VOLTS, 4-WIRE. 20 PAIR, 8 LINES. COORDINATE WITH ELECTRICAL CONTRACTOR FOR CONNECTION LOCATION OF ELECTRICAL SERVICE.
6. SUPPLY AND INSTALL (1) 1000 GAL. BELOW GRADE GREASE INTERCEPTOR. SEE DETAILS ON SHEET C-604.
7. SUPPLY AND INSTALL (2) ODOT 3A STANDARD CATCH BASIN.
8. 6" OUTLET (NO STRUCTURE). OUTLET INVERT ELEVATION = 740.00.
9. CONNECTION TO GAS MAIN. DUKE ENERGY SHALL FURNISH AND INSTALL GAS LINE FROM METER TO NEW TAP. THE CONTRACTOR SHALL INSTALL THE GAS LINE FROM THE METER TO THE BUILDING SERVICE PER THE BUILDING DRAWINGS. CONTRACTOR MUST OBTAIN A UTILITY PERMIT FROM BUTLER COUNTY ENGINEER'S OFFICE (BCEO), MARK CONNER. SEE WEBSITE: HTTPS://HH.PERMITS/BCEO.ORG/
10. SUPPLY AND INSTALL (1) ODOT 1.1 STANDARD MANHOLE. CONTRACTOR TO CONNECT EXISTING CULVERT EXTENSION PIPE TO PROPOSED MANHOLE FOR TIE-IN.
11. SUPPLY AND INSTALL (1) ODOT 2.1 STANDARD HALF-HEIGHT HEADWALL.
12. SUPPLY AND INSTALL (1) ADS NYLOPLAST DRAIN BASIN. SEE DETAILS ON SHEET C-605.



ENLARGED PLAN: SANITARY SEWER SERVICE
SCALE: 1" = 10'

BENCHMARK

	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009. NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
BM #1514	752.88	CHISELED BOX SOUTHWEST CORNER OF TRAFFIC SIGNAL LIGHT POLE BASE. LOCATED ON NORTHEAST CORNER OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION.

* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764 Call Before You Dig

CESO
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REVISION DESCRIPTION

NO.	DATE	
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

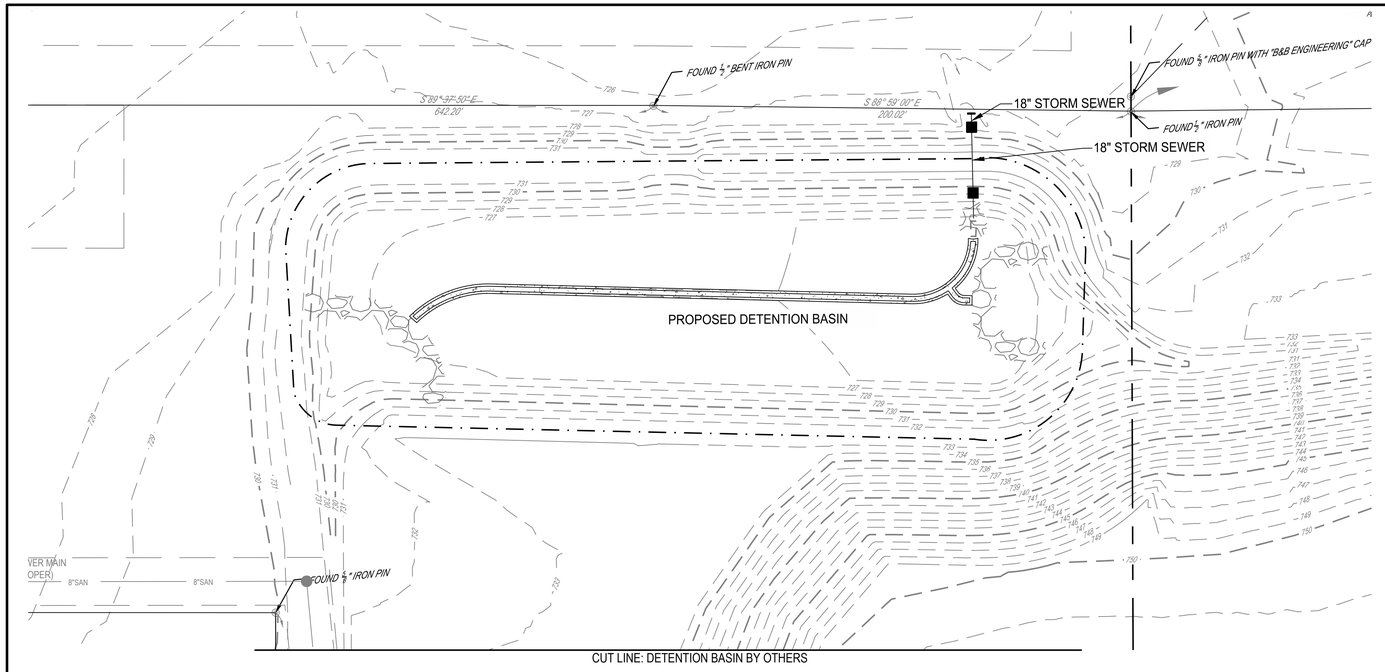
Casey's

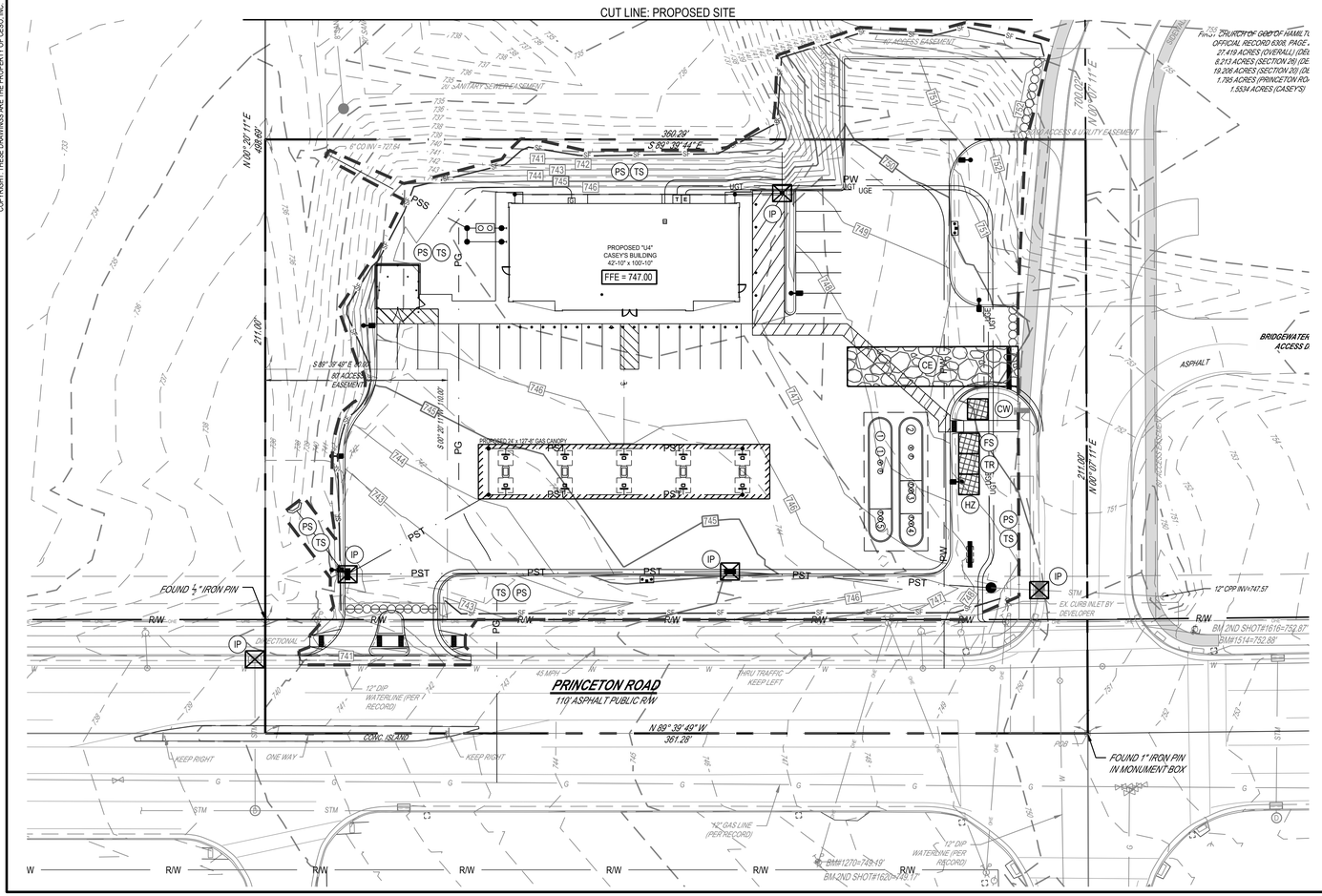
CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

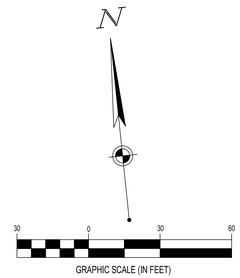
UTILITY PLAN

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-301

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LEGEND

EXISTING

REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

- 960 — MAJOR CONTOUR
- 962 — MINOR CONTOUR
- STM — STORM SEWER
- SF SF SF SF — SILT FENCE
- STRAW WATTLE NOTE: MIN. 12" DIAMETER PER OEPA PERMIT REQUIREMENTS
- GRADING/SEEDING LIMITS (LIMITS OF DISTURBANCE)
- STABILIZED CONSTRUCTION ENTRANCE (SEE SHEET C-402)
- WASHOUT/STORAGE AREA
- STORM MANHOLE
- CURB INLET
- NYLOPLAST DRAIN BASIN
- HEADWALL
- BASIN SEDIMENT FILTER
- CE — STABILIZED CONSTRUCTION ENTRANCE
- CW — CONCRETE WASHOUT
- TS — TEMPORARY SEEDING
- PS — PERMANENT SOD
- IP — INLET PROTECTION
- FS — FUEL STORAGE AREA
- TR — TRASH AREA
- HZ — HAZARDOUS MATERIAL STORAGE

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROJECT NARRATIVE:

PLAN ENGINEERS:
CESO, INC.
2800 CORPORATE EXCHANGE DR, SUITE 160
COLUMBUS, OH 43231
PHONE: (614) 942-3017
CONTACT: JEFF LONCHOR

DEVELOPER:
CASEY'S GENERAL STORES, INC.
ONE SE CONVENIENCE BLVD.
ANKENY, IA 50021
PHONE: (515) 446-6402

THE PROPOSED PROJECT IS THE CONSTRUCTION OF GAS STATION AND CONVENIENCE STORE. THE SUBJECT CASEY'S DEVELOPMENT AREA IS APPROXIMATELY 1.55 ACRES. THE TOTAL POST-DEVELOPED IMPERVIOUS PAVEMENT IS 0.98 ACRES. THE TOTAL DISTURBED AREA IS 1.56 ACRES.

THE ENTIRE SITE DRAINS TO THE ON-SITE STORM SEWER SYSTEM WHICH THEN CONVEYS THE STORMWATER RUNOFF VIA SWALE TO THE OVERALL REGIONAL DETENTION POND FOR ULTIMATE DISCHARGE.

ON-SITE SOILS:	DaB - DANA SILT LOAM	94.6%
	WyB2 - WYNN SILT LOAM	5.3%
	XfB - XENIA SILT LOAM	0.1%

HYDROLOGIC SOIL GROUPS: C

EXISTING ON-SITE CONDITIONS: OPEN SPACE

SEQUENCE OF CONSTRUCTION

1. NOTIFY COUNTY ENGINEER BEFORE WORK IS TO BEGIN. 48 HOUR NOTICE TO BE GIVEN TO INSPECTORS: ADRIENNE RICE 513-785-4119 & COREY AUDRETCH 513-785-4125
2. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE, CONSTRUCTION EXIT, FILTER SACKS, CONCRETE WASHOUT.
3. SITE DEMOLITION AND CLEARING.
4. ROUGH GRADING. PROVIDE TEMPORARY SEEDING OF DISTURBED AREAS WHICH ARE INACTIVE.
5. STORM SEWER AND UNDERGROUND UTILITY CONSTRUCTION.
6. BUILDING PAD.
7. CURB CONSTRUCTION.
8. FINE GRADING AND PAVEMENT SUBGRADE PREPARATION
9. ASPHALT PAVING AND REMAINING CONCRETE FLATWORK.
10. FINAL SEEDING.

* CONTRACTOR SHALL MODIFY THE SEQUENCE OF CONSTRUCTION BASED ON SITE CONDITIONS. CONTRACTOR TO NOTIFY PROJECT MANAGER PRIOR TO CHANGING SEQUENCE OF CONSTRUCTION.

BENCHMARK

	ELEVATION*	DESCRIPTION
BM #1191	736.30	BENCH NAIL SET SOUTH SIDE OF POWER POLE #JH-0009. NORTH SIDE OF PRINCETON ROAD, SOUTH OF WALDEN PONDS COMMUNITY CHURCH BUILDING.
BM #1270	749.19	BENCHNAIL SET NORTH SIDE OF POWER POLE #J12-0013 SOUTHWEST OF GILMORE ROAD AND PRINCETON ROAD INTERSECTION, NORTH OF POPEYE'S CHICKEN.
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* VERTICAL DATUM: NAVD88
NOTE: REFER TO ALTA SURVEY, SHEET C-003, FOR BENCHMARK LOCATIONS.

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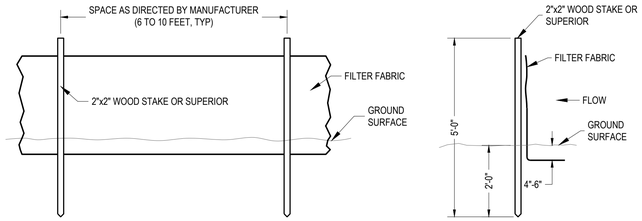
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

SWPPP

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-401

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TEMPORARY SILT FENCE DETAILS

NOT TO SCALE

SILT FENCE NOTES:

FILTER FABRIC SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

FILTER FABRIC SHALL BE MIRAFI 140 FABRIC OR EQUIVALENT. BURLAP CANNOT BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.

STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

WOOD POSTS SHALL BE 6'-0" TO 7'-0" IN HEIGHT AND 2" IN DIAMETER. WIRE FABRIC SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN #9 WIRE STAPLES 1-1/2" LONG.

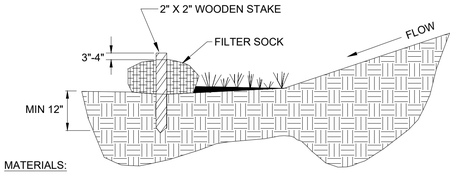
MAINTENANCE NOTES:

FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 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.



MATERIALS:

1. COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION:

1. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MIDSLOPE.
2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
4. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

FILTER SOCK DETAIL

NTS

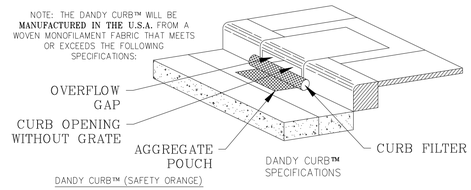
SECTION A-A

INSTALLATION: STAND GRATE ON END PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK.
TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT WORK PROPERLY.
HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

(IP) DANDY BAG

NTS



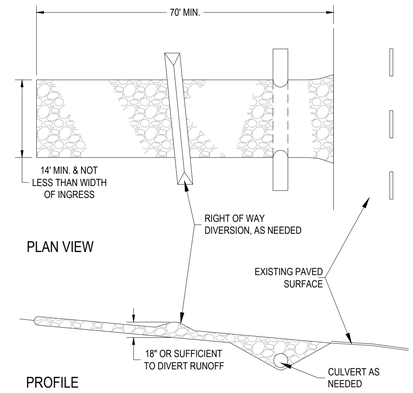
DANDY CURB™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Curbs™ can be ordered with our optional oil absorbents

(IP) DANDY CURB DETAIL

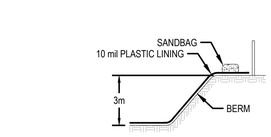
NOT TO SCALE



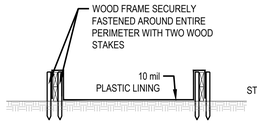
STABILIZED CONSTRUCTION ENTRANCE

NTS

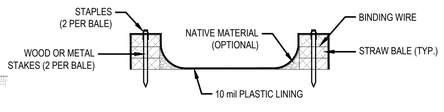
1. AGGREGATE SIZE - ODOT COARSE AGGREGATE GRADATIONS: CA-1, CA-2. CA-2 IS PREFERRED BY BUTLER COUNTY.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER FABRIC - FILTER FABRIC SHALL BE USED UNDER THE AGGREGATE TO MINIMIZE THE MIGRATION OF STONE INTO THE UNDERLYING SOIL BY HEAVY VEHICLE LOADS. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIALS SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, II, OR IV.
6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICAL BEFORE MAJOR GRADING ACTIVITIES.
7. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
8. WASHING - IF CONDITIONS ON THE SITE ARE SUCH THAT THE VEHICLES TRAVELING OVER THE GRAVEL DO NOT REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SEDIMENT TRAPPING FACILITY SUCH AS PRACTICE STANDARDS "IMPOUNDMENT STRUCTURE-ROUTED 842 OR TEMPORARY SEDIMENT TRAP 960". ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, WATERCOURSES, OR SURFACE WATERS INCLUDING WETLANDS. A WASH RACK MAY BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
9. LOCATION - THE WASHING STATION SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
10. TIMING - THE GRAVELED ACCESS SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER THE START OF SITE DISTURBANCE.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREA IS STABILIZED BY PERMANENT BEST MANAGEMENT PRACTICES.
12. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS OR STREETS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL AGGREGATE. ALL SEDIMENT SPILLED, DROPPED, OR WASHED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



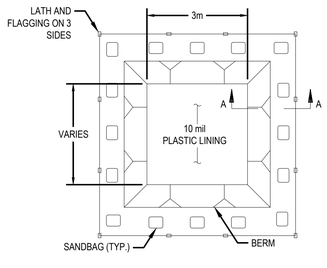
SECTION "A-A"



SECTION "A-A"



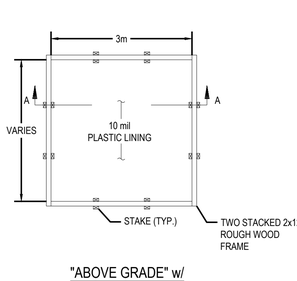
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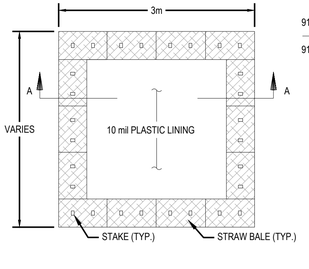
NOTE:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10m OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

"BELOW GRADE"



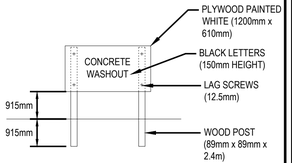
"ABOVE GRADE" w/ WOOD PLANKS



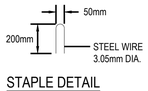
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PLAN VIEW



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL

(CW) CONCRETE WASHOUT DETAIL

NTS

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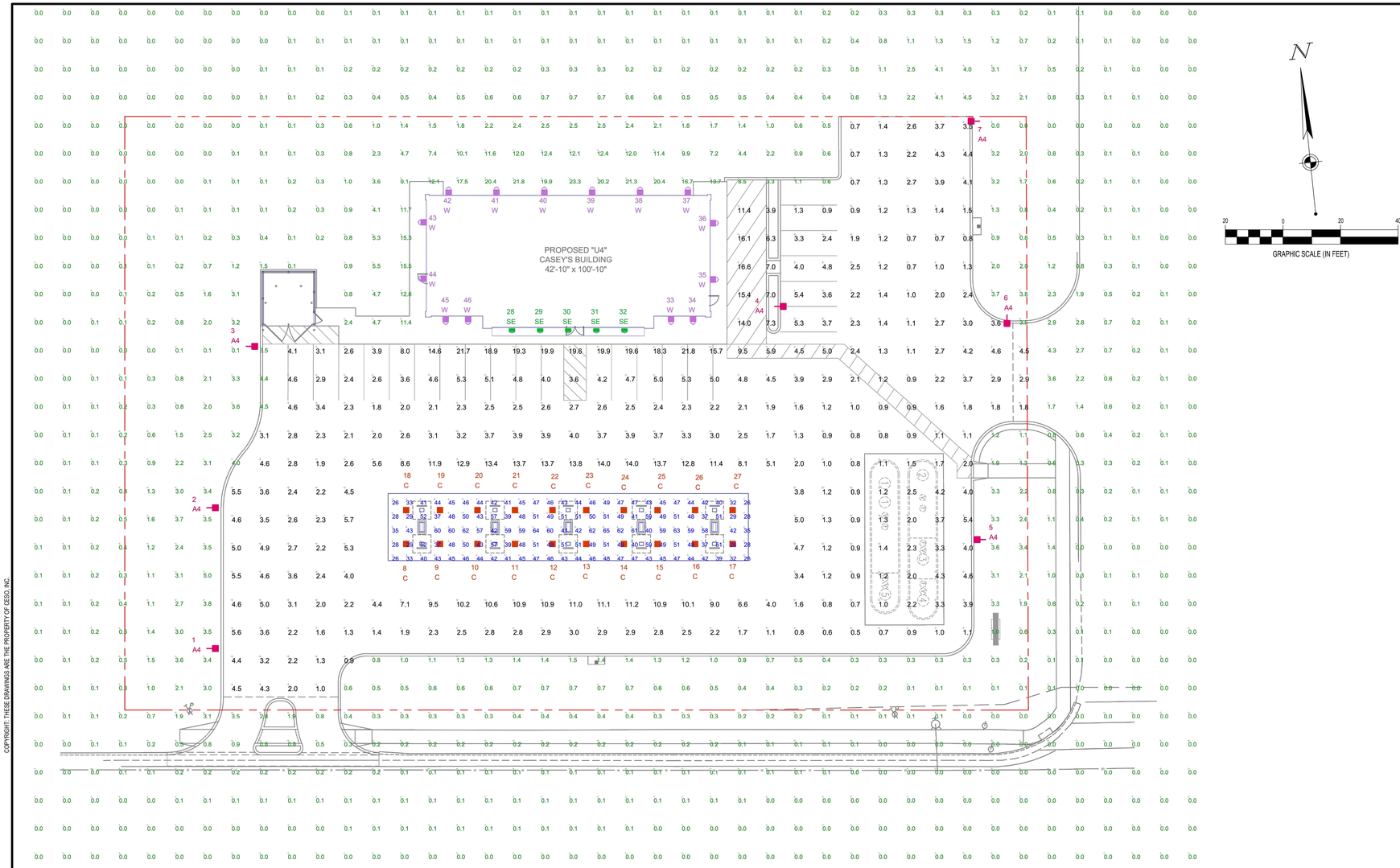
Casey's

CASEY'S
HAMILTON, OH
2394 PRINCETON RD
HAMILTON, OH 45011

SWPPP DETAILS

ISSUE: CIVIL PERMIT SET	
DATE: 05.19.2021	
JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-402



LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1	A4	17
2	A4	17
3	A4	17
4	A4	17
5	A4	17
6	A4	17
7	A4	17
8	C	16.5
9	C	16.5
10	C	16.5
11	C	16.5
12	C	16.5
13	C	16.5
14	C	16.5
15	C	16.5
16	C	16.5
17	C	16.5
18	C	16.5
19	C	16.5
20	C	16.5
21	C	16.5
22	C	16.5
23	C	16.5
24	C	16.5
25	C	16.5
26	C	16.5
27	C	16.5
28	SE	10
29	SE	10
30	SE	10
31	SE	10
32	SE	10
33	W	10
34	W	10
35	W	10
36	W	10
37	W	10
38	W	10
39	W	10
40	W	10
41	W	10
42	W	10
43	W	10
44	W	10
45	W	10
46	W	10

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PAVED AREA	4.29	21.8	0.5	8.58	43.60
UNDEFINED AREA	0.88	23.3	0.0	N.A.	N.A.
UNDER CANOPY	45.51	65	26	1.75	2.50

NOTE:
- ALL AREA LIGHTS ON NEW 15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES.

LUMINAIRE SCHEDULE										
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	7	A4	SINGLE	11259	1.030	B2-U0-G2	134	938	CREE, INC.	ARE-EDG-4M-DA-06-E-UL-XX-700
	20	C	SINGLE	13251	1.030	B3-U0-G1	134	2680	CREE, INC.	CAN-304-SL-RS-06-E-UL-XX-700
	5	SE	SINGLE	3902	1.030	B2-U0-G0	34	170	CREE, INC.	SFT-228-PS-RM-03-E-UL-XX-350-IC
	14	W	SINGLE	8739	1.030	B2-U0-G2	100	1400	CREE, INC.	SEC-EDG-3M-WM-06-E-UL-XX-525

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REDLEONARD ASSOCIATES
1340 Kemper Meadow Dr, Forest Park, OH 45240
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REV.	BY	DATE	DESCRIPTION
R1	BJM	02/21/2020	REVISED LAYOUT PER NEW SITE PLAN
R2	LMP	01/14/2021	REVISED PER UPDATED SITE PLAN
R3	BJM	03/12/2021	REVISED LAYOUT PER NEW SITE PLAN
R4	RCF	06/20/2022	REVISED PER UPDATED SITE PLAN WITH SMALLER CANOPY

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SCALE: 1" = 20'
LAYOUT BY: BJM
DWG SIZE: D
DATE: 12/19/2019

PROJECT NAME:
CASEY'S #3847
HAMILTON, OH
DRAWING NUMBER:
RL-6515-S1-R4

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

PHOTOMETRIC PLAN

ISSUE: CIVIL PERMIT SET
DATE: 05.19.2021
JOB NO.: 756995
DESIGN: MST
DRAWN: MST
CHECKED: JJL
SHEET NO.
C-501

W:\PROJECTS\CASEYS\756995-HAMILTON OH\03-CIVIL\PLAN\CONSTRUCTION\756995_C-501-LIGHT.DWG - 7/11/2022 1:40 PM

	QTY	LABEL	DESCRIPTION
AREA	7	A4	ARE-EDG-4M-DA-06-E-UL-XX-700



	QTY	LABEL	DESCRIPTION
CANOPY	20	C	CAN-304-SL-RS-06-E-UL-XX-700



	QTY	LABEL	DESCRIPTION
SOFFIT	5	SE	SFT-228-PS-RM-03-E-UL-XX-350-IC



	QTY	LABEL	DESCRIPTION
WALL MOUNTED	14	W	SEC-EDG-3M-WM-06-E-UL-XX-525

ADDITIONAL FIXTURE INFO

THE EDGE® Series

LED Area/Flood Luminaire

Rev. Date: V10. 10/22/2020

Product Description

THE EDGE® Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications. Available in Adjustable Arm, Direct Arm, Direct Arm Long, or Side Arm (details on page 2). Includes a lead/density guard.
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

- Patented NanoOptic® Product Technology
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See http://creelighting.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes SA-SMBSPK	**Backlight Control Shields** - Four sided - Four-pack - Unpainted stainless steel. SA-BCS-4PK
Hand-Held Remote SA-SENSEKIT - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	

Ordering Information

Example: ARE-EDG-2M-AA-T2-E-UL-SV-350

Product	Optic	Mounting*	LED Count (x10)	Series	Voltage	Color Opt.	Drive Current	Options
ARE-EDG	2M Type II Medium 3M Type III Medium 2MQ Type II Medium w/Quattro Mini 3MQ Type III Medium w/Quattro Mini 2MP Type II Medium w/Type IV Medium 3MP Type III Medium w/Type IV Medium 2M Type II Medium w/ALS 3M Type III Medium w/ALS	AA Adjustable Arm DA Direct Arm DL Direct Long Arm SA Side Arm T1 Short T2 Medium T3 Tall RA NEMA® 3	32 06 08 10 12 14 16	E	UL, Universal, 120-277V UH Universal, 347-480V	SV Black BZ Bronze SI Silver WH White	350 350mA 525 525mA 700 700mA - Available with 25-40 LEDs	DIM 0-10V Dimming - Control by others - Can't exceed specified drive current - Not available with PML options F Fuse - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse HL HI/Low Dual Circuit Input - Available with 40 LEDs and 700mA - Sensor not included P Photocell - Refer to PML spec sheet for availability with PML options PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications with maximum 40° tilt PML3 Programmable Multi-Level, 30-40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 40'-45' tilt PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications with 0°-40° tilt R Receptacle - 3-pin receptacle per ANSI C136.10 - Not available with 208V, 240V or 480V - Intended for downlight applications with maximum 40° tilt - Includes photocell or shorting cap by others - Refer to PML spec sheet for availability with PML options 42K 4200K Color Temperature - Minimum 70 CRI - Not available in conjunction per luminaire TBL Amber Turtle Friendly LEDs - Available only with 350mA - Luminaire multiplier from 5700K: 0.32 (350mA) - Power multiplier: 0.76 - Minimum color temperature/light - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance

* Reference APA and pole configurations suitability data beginning on page 19

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Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

304 Series™

LED Recessed Canopy Luminaire

Rev. Date: V7 04/05/2021

Product Description

Luminaire housing is constructed from rugged die cast aluminum components (RS Mount) or die cast and extruded aluminum components (RM Mount). LED driver is mounted in a sealed die cast aluminum compartment that protects the electronics from below the fixture. Luminaire mounts directly to the canopy deck and is secured in place with die cast aluminum trim frame. Luminaire housing is provided with factory applied foam gasket that provides a watertight seal between luminaire housing and canopy deck. Suitable for use in single or double skin canopies with 16' (406 mm) wide panels. Designed for canopies of 19-22 gauge (maximum 0.040" [1 mm] thickness).
Applications: Petroleum stations, convenience stores, drive-thru banks and restaurants, retail and grocery

Performance Summary

- Patented NanoOptic® Product Technology
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See http://creelighting.com/warranty for warranty terms

Accessories

Field-Installed
Hand-Held Remote SA-SENSEKIT - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

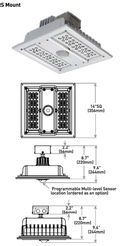
Ordering Information

Example: CAN-304-SM-RS-04-E-UL-SV-350

Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
CAN-304	SM Type II Medium SL Type II Large PS Petroleum Symmetric PA Petroleum Asymmetric	RS Recessed Single Stem RD Recessed Double Stem	04 06	E	UL, Universal, 120-277V UH Universal, 347-480V	BK Black BZ Bronze SI Silver WH White	350 350mA 525 525mA 700 700mA	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse P Photocell - Refer to PML spec sheet for availability with PML options TBL Amber Turtle Friendly LEDs - Available only with 350mA - Luminaire multiplier from 5700K: 0.32 (350mA) - Power multiplier: 0.76 - Minimum color temperature per luminaire 42K 4200K Color Temperature - Minimum 70 CRI - Not available in conjunction per luminaire

* All LED luminaire requires machined spacing: 48" x 24" x 6" [1219mm x 610mm x 152mm]; 48" [1219mm] center-to-center of adjacent luminaires, 24" [610mm] luminaire center to side building member, 6" [152mm] top of luminaire to underside building member

RS Mount



Weight
22.0 lbs. (9.9kg)

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Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

228 Series™

LED Soffit Luminaire – IC Rated

Rev. Date: V2 04/23/2020

Product Description

High performance energy-efficient LED down light designed for use in new construction or remodel applications where there is direct contact with insulation. The recessed mount is for use in 6" (150mm) and 8" (200mm) nominal (6 1/4" [160mm] to 24" [610mm] on center) building construction. Heavy gauge steel recessed mounting frame features 1.5" [38mm] deep aperture throat to accommodate most standard ceiling thicknesses, and a universal mounting bracket that accepts 0.5" [13mm] EMT conduit, C-channel mounting bars or flat bar hangers with 5/16" [8mm] vertical adjustment from either above or below the ceiling. An oversized junction box is listed for eight #12 AWG feed through wires. The recessed remodel mount is entirely supported by the ceiling material and is designed to accept ceiling thickness from 0.375" [10mm] to 2.25" [57mm] and is an ideal replacement for recessed 12" [305mm] square HID luminaires.
Applications: Petroleum canopies, soffits, indoor retail or industrial spaces

Performance Summary

- Patented NanoOptic® Product Technology
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See http://creelighting.com/warranty for warranty terms

Accessories

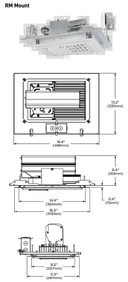
Field-Installed	
RM Mount Accessories **Mounting C-Channel** - Part of 6' - Pair of 14" [356mm] rigid 3/4" x 1/2" [19mm x 13mm] galvanized C-Channel bars **Mounting C-Channel** - Pair of 22" [559mm] rigid 3/4" x 1/2" [19mm x 13mm] galvanized C-Channel bars - Part of 8' - Pair of 30" [762mm] rigid 3/4" x 1/2" [19mm x 13mm] galvanized C-Channel bars	**Hanger Bar** **Mounting Brackets** - Pair - Kit contains 4

Ordering Information

Example: SFT-228-SL-RM-03-E-UL-WH-350

SFT-228			03	E			350	IC
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
SFT-228	SL Soffits Petroleum PS Petroleum Symmetric	RM Remodel RS Recessed Remodel	03	E	UL, Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SI Silver WH White	350 350mA	IC IC Rated 42K 4200K Color Temperature - Color temperature per luminaire - Minimum 70 CRI

RM Mount



LED Count (x10)	Weight
03	28.7 lbs. 113.0kg)

RM Mount - see page 3 for weight & dimensions

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Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

THE EDGE® Series

LED Security Wall Pack Luminaire

Rev. Date: V8 09/03/2021

Product Description

THE EDGE® wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Includes a lightweight mounting box for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes lead/density guard.
Applications: General area and security lighting

Performance Summary

- Patented NanoOptic® Product Technology
- Assembled in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI (4000K & 5700K), 80 CRI (3000K), 90 CRI (5000K)
- **CCT:** Turtle Friendly Amber, 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 500K), 5700K (+/- 500K) standard
- **Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish/1 year on accessories

* See http://creelighting.com/warranty for warranty terms

Accessories

Field-Installed		
Bird Spikes SA-SMBSPK	**Beauty Plate** - Fits 4"x4" (101mm x 101mm) Square Box - Fits 4"x11/4" (101mm x 32mm) Square - Covers holes left by incumbent wall packs	**Hand-Held Remote** SA-SENSEKIT - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

* Must specify color



LED Count (x10)	Dim. "A"	Weight
02	9.9" (251mm)	20 lbs. (9.1kg)
04	11.9" (304mm)	22 lbs. (10.0kg)
06	13.9" (353mm)	25 lbs. (11.2kg)
08	15.9" (404mm)	27 lbs. (12.2kg)
10	17.9" (455mm)	31 lbs. (14.1kg)
12	19.9" (505mm)	32 lbs. (14.5kg)

Ordering Information

Example: SEC-EDG-2M-WM-06-E-UL-SV-700

SEC-EDG		WM		E				
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
SEC-EDG	2M Type II Medium 3M Type III Medium w/ALS UH Type III Medium w/ALS	WM Wall Mount	02 04 06 08 10 12	E	UL, Universal 120-277V UH Universal 347-480V 3L 347V	BK Black BZ Bronze SI Silver WH White	350 350mA 525 525mA 700 700mA - Available with 25-40 LEDs	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse P Photocell - Must specify 25, or 30 voltage PML Programmable Multi-Level - Refer to PML spec sheet for details - Intended for downlight applications with 0°-50 30K 3000K Color Temperature - Minimum 90 CRI - Color temperature per luminaire 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire 50K 5000K Color Temperature - Minimum 90 CRI - Color temperature per luminaire TBL Amber Turtle Friendly LEDs - Available only with 350mA - Power multiplier: 0.76 - Additional shielding (by others) may be required for Florida Fish and Wildlife Conservation Commission compliance

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US: creelighting.com (800) 236-4800
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CREE LIGHTING

THE EDGE® LED Area/Flood Luminaire

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks specifically designed for LED applications
- DA and DL mount utilizes convenient interlocking mounting method. Secures to wall with four corrosion resistant 3/16" (5mm) screws. Fits square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 3"-5½(mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes lead/density guard
- Exclusive ColorFast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA, 20 LED (525 & 700mA) and 40-80 LED: 0.15mA, 150-160 LED: 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Please refer to www.designlights.org for most current information
- RoHS Compliant. Consult factory for additional details
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	44	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.29
14	158	1.32	0.77	0.68	0.62	0.47	0.35
16	179	1.49	0.87	0.77	0.68	0.53	0.39
525mA							
02	37	0.30	0.19	0.17	0.14	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.64	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
14	232	1.94	1.13	0.98	0.87	0.68	0.50
16	260	2.21	1.27	1.11	0.97	0.77	0.56
700mA							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%.

THE EDGE® Series Ambient Adjusted Lumen Maintenance†

Ambient	CCT	Initial LMF	25K for Reported* LMF	50K for Reported* LMF	75K for Estimated† LMF	100K for Estimated† LMF
5°C (41°F)	30K/40K/50K/57K	1.04	1.01	0.99	0.98	0.96
	TRL	1.04	1.04	1.04	1.04	1.04
10°C (50°F)	30K/40K/50K/57K	1.03	1.00	0.98	0.97	0.95
	TRL	1.04	1.04	1.04	1.04	1.04
15°C (59°F)	30K/40K/50K/57K	1.02	0.99	0.97	0.96	0.94
	TRL	1.03	1.03	1.03	1.03	1.03
20°C (68°F)	30K/40K/50K/57K	1.01	0.98	0.96	0.95	0.93
	TRL	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	30K/40K/50K/57K	1.00	0.97	0.95	0.94	0.92
	TRL	1.00	1.00	1.00	1.00	1.00

* Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on LED LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LAFT) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient temperatures.

† In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to the tested duration in the IES LM-80 report for the LED.

‡ Estimated values are calculated and represent time durations that exceed the to-last duration of the LED.

304 Series™ LED Recessed Canopy Luminaire

Product Specifications

CONSTRUCTION & MATERIALS

- RS Mount luminaire housing is constructed from rugged die cast aluminum components. RM Mount luminaire housing is constructed from rugged die cast aluminum and features high performance extruded aluminum heatsinks specifically designed for LED canopy applications
- LED driver is mounted in a sealed weathertight center chamber that allows for access from below the luminaire
- Field adjustable drive current between 350mA, 525mA and 700mA on Non-IC rated luminaires
- Luminaire housing provided with factory applied foam gasket and screws for a watertight seal between luminaire housing and canopy deck
- Mounts directly to the canopy deck and is secured in place with a die cast aluminum trim frame
- RS mount includes integral junction box which allows ease of installation without need for use in single ORS Mount or double IRO Mount) skin canopies with 16" (406mm) wide panels
- Designed for canopies of 19-22 gauge (maximum 0.040" [1mm] thickness)
- See 228 Series™ canopy luminaires for canopies using 12" (305mm) square cutouts
- Exclusive ColorFast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **10V Source Current:** 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Enclosure meets IP66 requirements per IEC 60529
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Please refer to www.designlights.org for most current information
- RoHS Compliant. Consult factory for additional details
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA							
04	44	0.39	0.24	0.22	0.21	0.15	0.12
06	69	0.57	0.34	0.30	0.27	0.21	0.16
525mA							
04	71	0.59	0.35	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
700mA							
04	94	0.79	0.46	0.40	0.36	0.28	0.21
06	135	1.14	0.65	0.57	0.50	0.40	0.29

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V

304 Series™ Ambient Adjusted Lumen Maintenance†

Ambient	CCT	Initial LMF	25K for Reported* LMF	50K for Reported* LMF	75K for Estimated† LMF	100K for Estimated† LMF
5°C (41°F)	30K/40K/50K/57K	1.04	1.01	0.99	0.98	0.96
	TRL	1.04	1.04	1.04	1.04	1.04
10°C (50°F)	30K/40K/50K/57K	1.03	1.00	0.98	0.97	0.95
	TRL	1.04	1.04	1.04	1.04	1.04
15°C (59°F)	30K/40K/50K/57K	1.02	0.99	0.97	0.96	0.94
	TRL	1.03	1.03	1.03	1.03	1.03
20°C (68°F)	30K/40K/50K/57K	1.01	0.98	0.96	0.95	0.93
	TRL	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	30K/40K/50K/57K	1.00	0.97	0.95	0.94	0.92
	TRL	1.00	1.00	1.00	1.00	1.00

* Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on LED LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LAFT) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient temperatures.

† In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to the tested duration in the IES LM-80 report for the LED.

‡ Estimated values are calculated and represent time durations that exceed the to-last duration of the LED.

228 Series™ LED Soffit Luminaire – IC Rated

Product Specifications

CONSTRUCTION & MATERIALS

- Luminaire sides are rugged die cast aluminum with high performance heatsinks and aluminum housing specifically designed for high power LEDs, factory installed to the trim and wired to the driver
- Driver compartment is constructed of anodized extruded aluminum for exceptional thermal performance
- Exclusive ColorFast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze and white are available
- **Weight:** See Weight Chart on pages 1 and 3

RM

- High performance energy-efficient LED down light, designed for use in new construction applications with drywall, plywood or hard lid ceilings and 16" (406mm) to 24" (610mm) on center building construction
- Heavy gauge steel recessed mounting frame features 1.5" [38mm] deep aperture throat to accommodate most standard ceiling thicknesses, and a universal mounting bracket that accepts 0.5" [13mm] EMT conduit, C-channel mounting bars or flat bar hangers with 5" (127mm) vertical adjustment from either above or below the ceiling includes an oversized junction box is listed for eight #12 AWG feed through wires

RR

- High performance energy-efficient LED down light, designed for remodel application
- Entirely supported by the ceiling material and is designed to fit through 12" (305mm)-square x 12" (305mm) opening
- Accepts ceiling thicknesses from 0.375" (10mm) to 2.25" (57mm)
- An ideal replacement for 12" (305mm) x 12" (305mm) recessed HID luminaires

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations under covered ceilings
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Consult factory for CE Certified products
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Type IC in accordance with Article 410 of the NEC and UL 1598, suitable for direct contact with insulation
- RM mount listed for eight #12 AWG, 75°C rated through branch circuit wires
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA							
03	34	0.30	0.19	0.18	0.35	0.11	0.09

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 10%

228 Series™ Ambient Adjusted Lumen Maintenance†

Ambient	Initial LMF	25K for Reported* LMF	50K for Reported* LMF	75K for Estimated† LMF	100K for Estimated† LMF
0°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

* Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on LED LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LAFT) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient temperatures.

† In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to the tested duration in the IES LM-80 report for the LED.

‡ Estimated values are calculated and represent time durations that exceed the to-last duration of the LED.

THE EDGE® LED Security Wall Pack Luminaire

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with two copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes lead/density guard
- Exclusive ColorFast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM

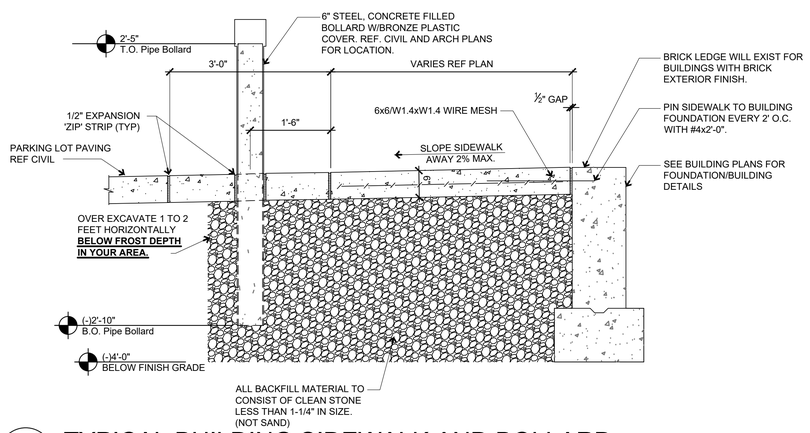
- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA, 20LED (525 & 700mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P or PML options
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Please refer to https://www.designlights.org/search/ for most current information
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

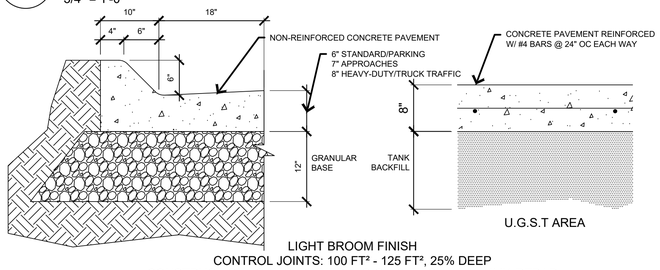
Electrical Data*

LED Count (x10)	CCT	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA								
02	30K/40K/50K/57K	25	0.21	0.13	0.11	0.10	0.08	0.07
	TRL		19	0.16	0.09	0.08	0.07	0.05
04	30K/40K/50K/57K	44	0.36	0.23	0.21	0.20	0.15	0.12
	TRL		35	0.29	0.17	0.15	0.13	0.07
06	30K/40K/50K/57K	66	0.52	0.31	0.28	0.26	0.20	0.15
	TRL		50	0.41	0.24	0.21	0.18	0.14
08	30K/40K/50K/57K	90	0.75	0.44	0.38	0.34	0.26	0.20
	TRL		68	0.57	0.33	0.29	0.25	0.14
10	30K/40K/50K/57K	110	0.92	0.53	0.47	0.41	0.32	0.24
	TRL		82	0.69	0.40	0.35	0.30	0.16
12	30K/40K/50K/57K	130	1.10	0.63	0.55	0.48	0.38	0.29
	TRL		99	0.82	0.48	0.41	0.36	0.28
525mA								
02	30K/40K/50K/57K	37	0.30	0.19	0.17	0.14	0.12	0.10
04	30K/40K/50K/57K	70	0.58	0.34	0.31	0.28	0.21	0.16
06	30K/40K/50K/57K	101	0.84	0.49	0.43	0.38	0.30	0.22
08	30K/40K/50K/57K	133	1.13	0.66	0.58	0.51	0.39	0.28
700mA								
02	30K/40K/50K/57K	50	0.41	0.25	0.22	0.20	0.15	0.12
04	30K/40K/50K/57K	93	0.78	0.46	0.40	0.36	0.27	0.20
06	30K/40K/50K/57K	134	1.14	0.65	0.57	0.50	0.39	0.29



1 TYPICAL BUILDING SIDEWALK AND BOLLARD

3/4" = 1'-0"



LIGHT BROOM FINISH
CONTROL JOINTS: 100 FT² - 125 FT², 25% DEEP
CONSTRUCTION JOINTS: PINNED 4' O.C. 12" EACH WAY W/ #4 REBAR
ALL JOINTS TO BE SEALED WITH BACKER RODS AND CAULKED

2 CONCRETE PAVING AND CURB

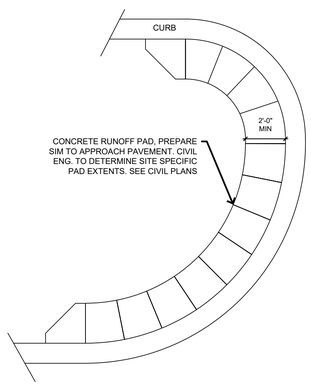
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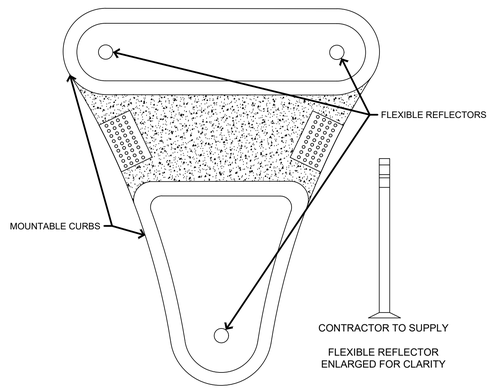
3 PAVING SAW-CUT

Not to Scale



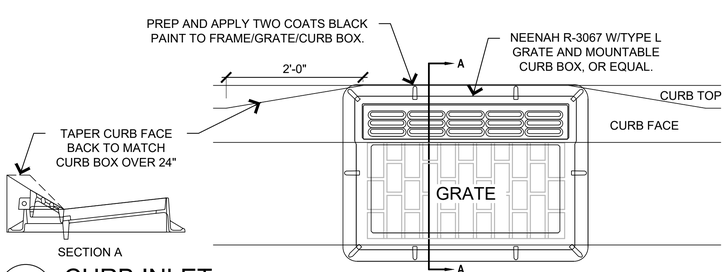
4 LANDSCAPE PROTECTOR

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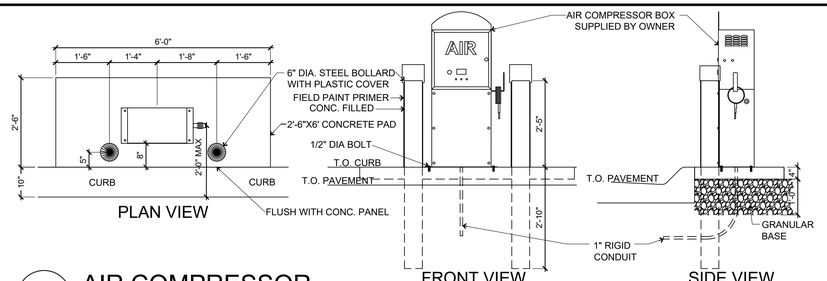
5 PORK CHOP WITH REFLECTORS

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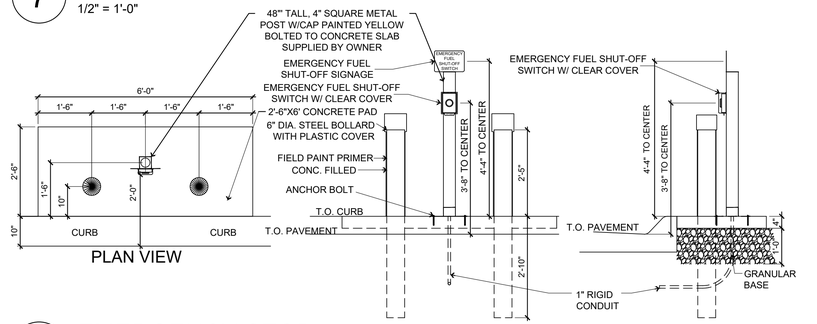
6 CURB INLET

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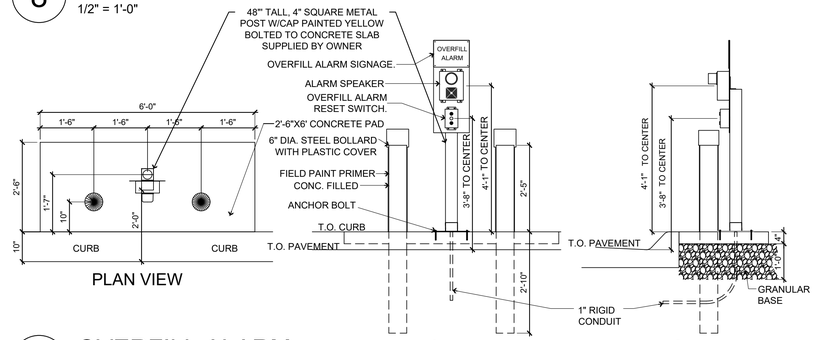
7 AIR COMPRESSOR

1/2" = 1'-0"



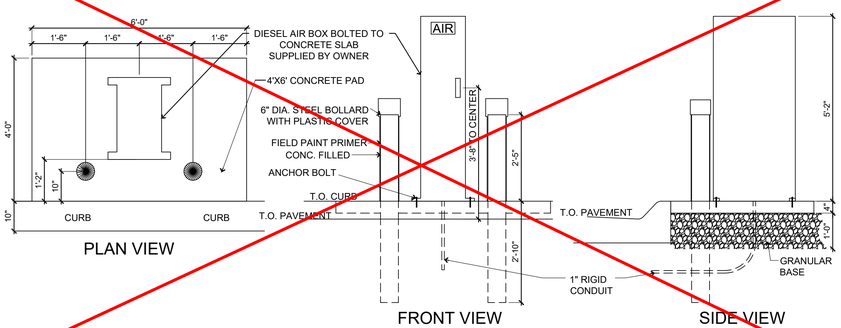
8 EMERGENCY STOP

1/2" = 1'-0"



9 OVERFILL ALARM

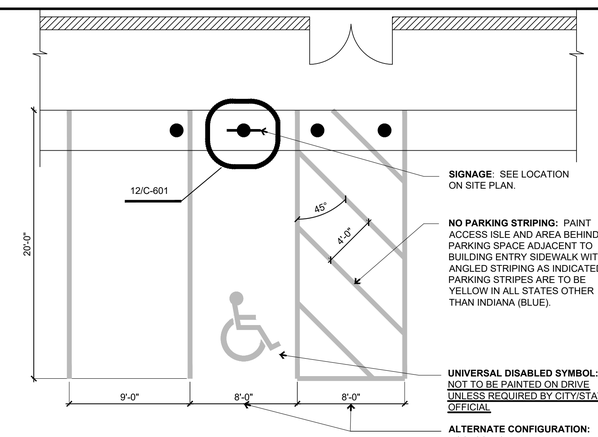
1/2" = 1'-0"



10 DIESEL AIR COMPRESSOR (ONLY FOR < 3 DIESEL LANES)

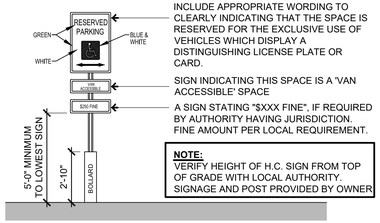
1/2" = 1'-0"

NOT USED



11 ADA PARKING SPACES

3/16" = 1'-0"



12 ADA PARKING SIGN

1/4" = 1'-0"

GENERAL NOTES

Concrete:

1. All concrete and reinforcing work shall conform to the latest edition of the American Concrete Institute's "Standard Building Code Requirements for Reinforced Concrete," (ACI 318) and "Specifications for Structural Concrete for Buildings," (ACI 301).
2. Concrete shall use type II cement. Concrete mix designs shall meet the following requirements:

	MINIMUM 28-DAY f'c	MAXIMUM W/C RATIO	SLUMP	AIR ENTRAIN.
Exterior exposed concrete	4,000 psi	0.42	4" ± 1"	6% ± 1%

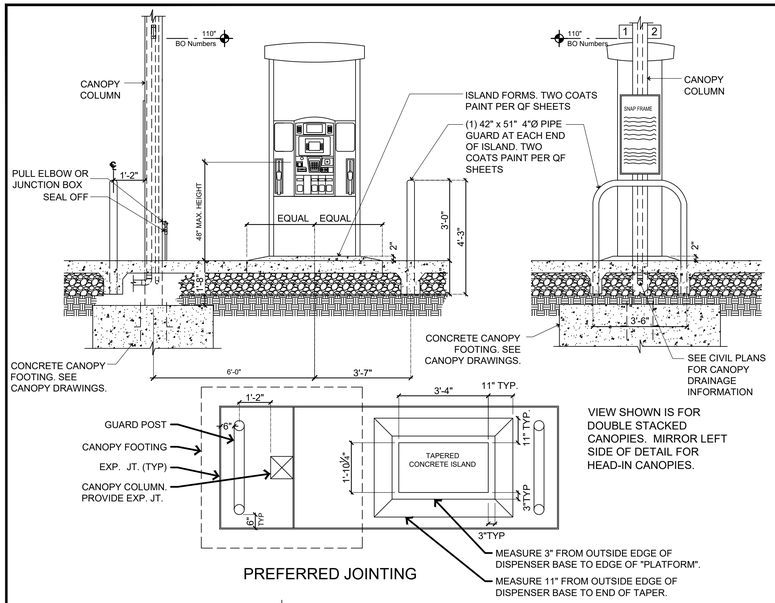
   If Contractor desires to increase slump above allowable limits to facilitate placement or pumping, this shall be done utilizing a superplasticizer approved by the Ready Mix Designer at a dosage rate provided by Ready Mix Designer.
3. The Contractor shall reject any concrete that exceeds the slump limits noted above (prior to adding superplasticizer) or concrete that can not be placed within ninety (90) minutes of batch time.
4. No aluminum shall be placed in concrete.
5. All concrete is reinforced unless specifically noted as Unreinforced. Reinforce all concrete not otherwise shown with the same reinforcing as in similar sections or areas.
6. During hot weather (80 degrees F and above), the Contractor shall comply with the recommendations ACI-305 "Hot Weather Concrete". During cold weather (40 degrees and below), the Contractor shall comply with the recommendations of ACI-306 "Cold Weather Concreting".
7. The concrete mix designs are to be submitted as a formal submittal to the Owner for acceptance PRIOR to concrete being delivered to the site.
8. Verify with local authorities the required thickness of poured concrete for approaches and parking lot.

Sub-Base:

1. Sub-base Course Under Exterior Concrete Paved Surfaces: Spread and compact sub-base in 6"-9" lifts compacted to 98% Standard Proctor.

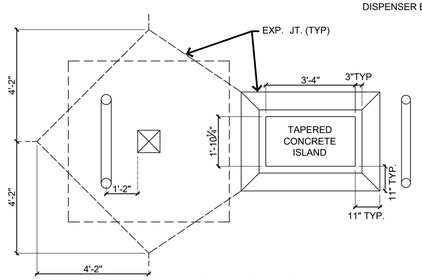
Casey's
CASEY'S CONSTRUCTION DIVISION
One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100

PROJECT:	PUBLISHED:	DRAWING INFORMATION:
2022 Civil Details	01/13/22	CIVIL DETAILS
DRAWING INFORMATION: CONSTRUCTION DIVISION	REVISED ON:	
DRAWN BY: ARLON GOFORTH III	CHECKED BY:	C-601



PREFERRED JOINTING

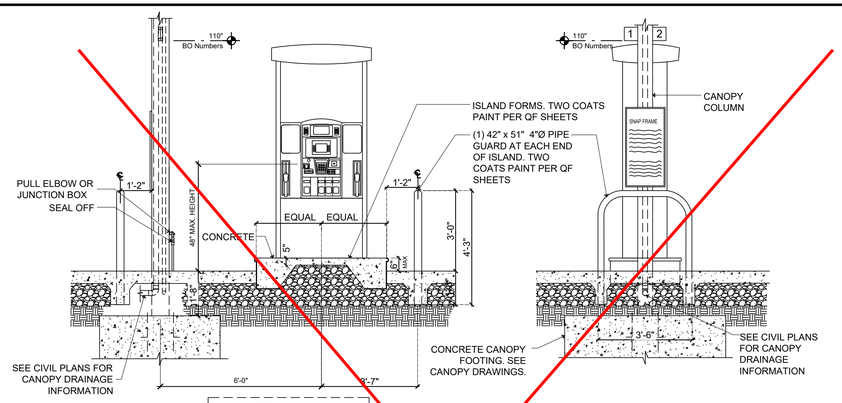
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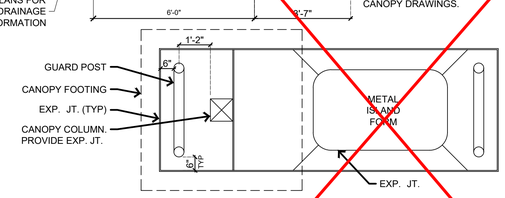


DIAMOND BOX OUT OPTION

1 GAS TAPERED FUEL ISLAND (PREFERRED OPTION)

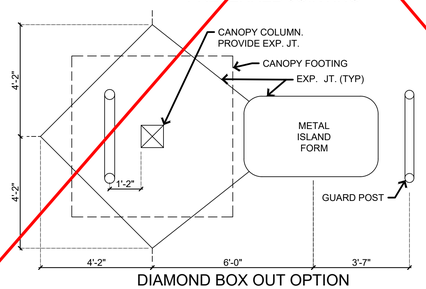
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VIEW SHOWN IS FOR DOUBLE STACKED CANOPIES. MIRROR LEFT SIDE OF DETAIL FOR HEAD-IN CANOPIES.

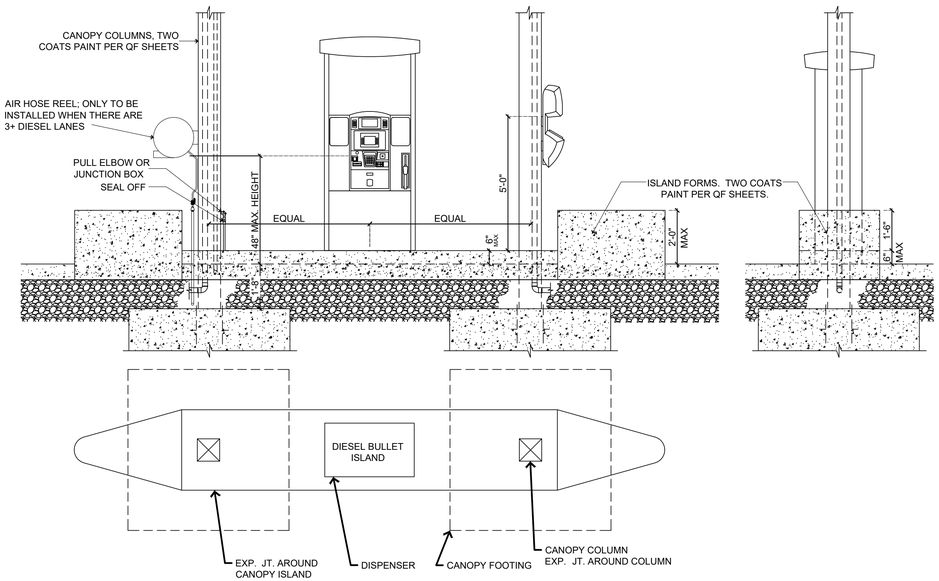
PREFERRED JOINTING



DIAMOND BOX OUT OPTION

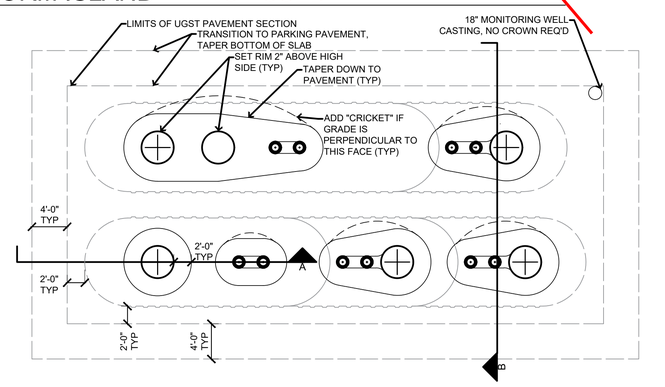
2 GAS METAL FORM ISLAND NOT USED

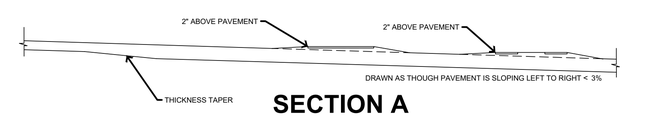
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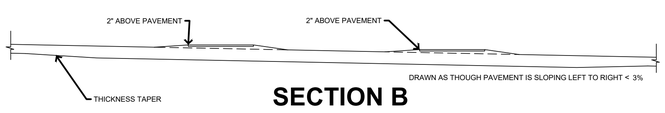
3 DIESEL BULLET ISLAND

3/8" = 1'-0"





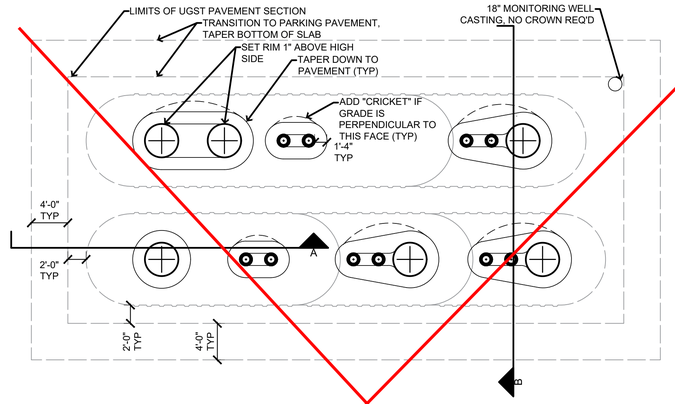
SECTION A

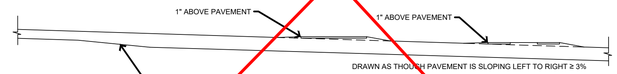


SECTION B

4 UGST PAVING FOR PAVEMENT SLOPE <3%

Not to Scale





SECTION A

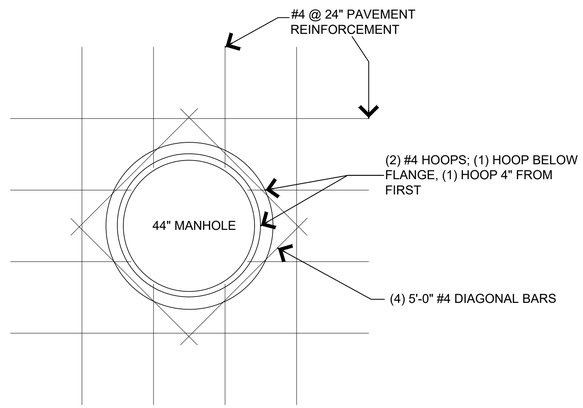


SECTION B

5 UGST PAVING FOR PAVEMENT SLOPE >3%

Not to Scale

NOT USED



General Notes:

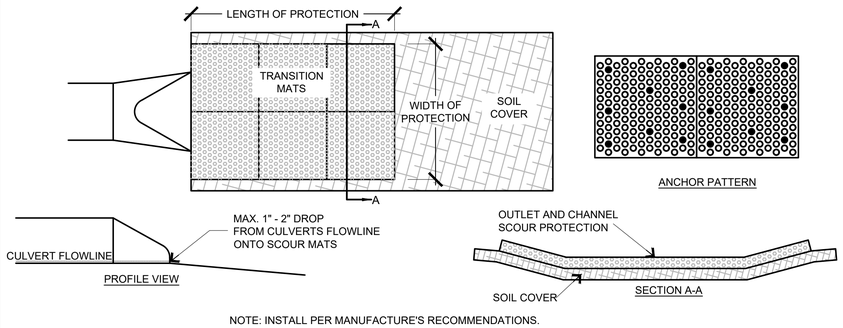
1 ALL REINFORCING IS CENTER OF SLAB.

6 UGST Manhole Detail

1/2" = 1'-0"

CASEY'S CONSTRUCTION DIVISION
One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100

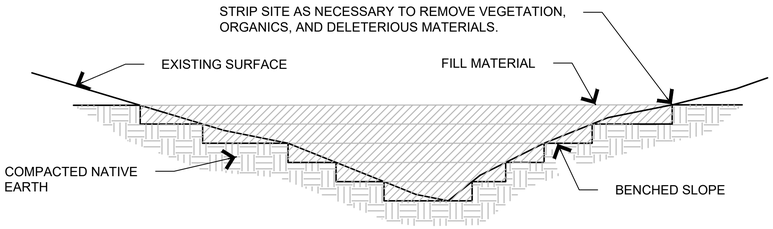
PROJECT: 2022 Civil Details	PUBLISHED: 01/13/22; REVISED ON:
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWING INFORMATION: CIVIL DETAILS
DRAWN BY: ARLON GOFORTH III; CHECKED BY:	C-602



NOTE: INSTALL PER MANUFACTURE'S RECOMMENDATIONS.

1 SCOUR STOP EROSION CONTROL

Not to Scale

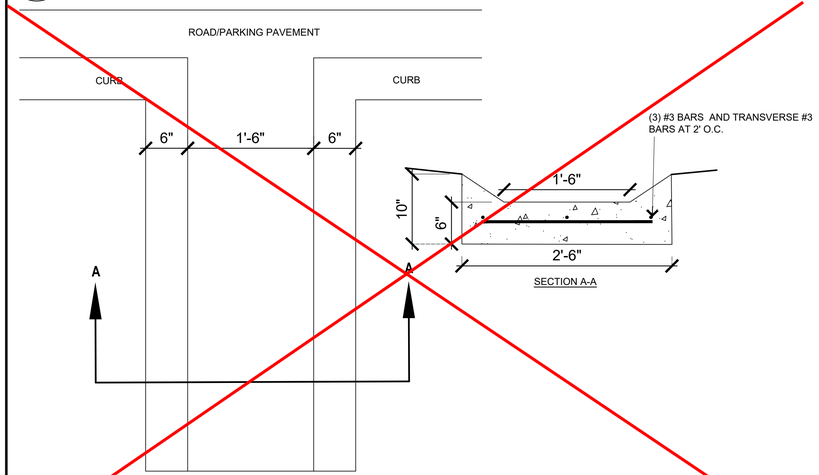


NOTES:

1. BENCH SLOPES TO MAINTAIN VERTICAL SIDE SLOPES AT FILL LIMITS +/- 3' VERTICAL TO +/- 8' HORIZONTAL.
2. COMPACTION SHALL BE IN 8" LIFTS TO 95% STANDARD PROCTOR OR OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT.
3. SCARIFY ORIGINAL GROUND AND BLEND WITH FIRST LIFT ON EACH BENCH.
4. ALL FILL MATERIALS, INCLUDING FILL GENERATED ON-SITE, SHALL BE OF SUITABLE MATERIAL. UNSUITABLE FILL MATERIAL INCLUDES, BUT IS NOT LIMITED TO, SOIL THAT CONTAINS LARGE ROCKS, TREE AND PLANT ROOTS, CONCRETE, TRASH, ETC.

2 TYPICAL FILL SECTION

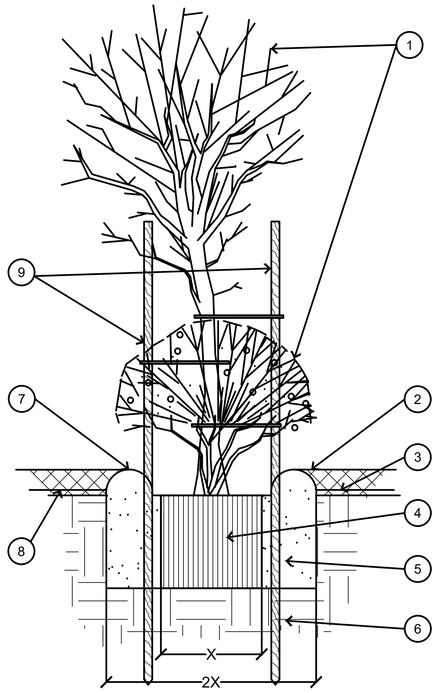
Not to Scale



3 CURB CUT FLUME DETAIL

NOT USED

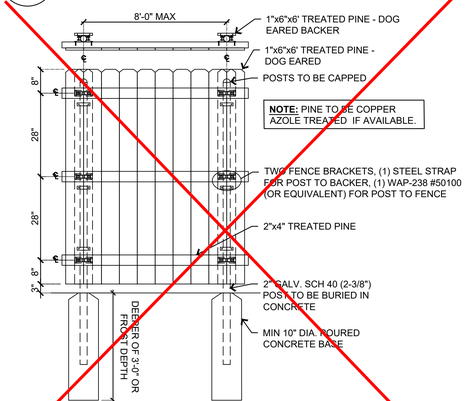
Not to Scale



1. TREE/SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
2. GROUNDCOVER: 3" DEPTH OF 3/4" WASHED STONE OR WASHED BRICK CHIPS AS INDICATED IN LANDSCAPING PLAN.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL. AMEND AND FERTILIZE AS RECOMMENDED BY LOCAL SUPPLIER
6. UNDISTURBED NATIVE SOIL.
7. 3" HIGH EARTHEN WATERING BASIN.
8. HEAVY WEED FABRIC UNDER GROUNDCOVER.
9. FOR TREES, 2 STAKES/GUIDEPOSTS MIN; 3 REQ ON SLOPES WITH TIES

4 PLANT/TREE INSTALLATION

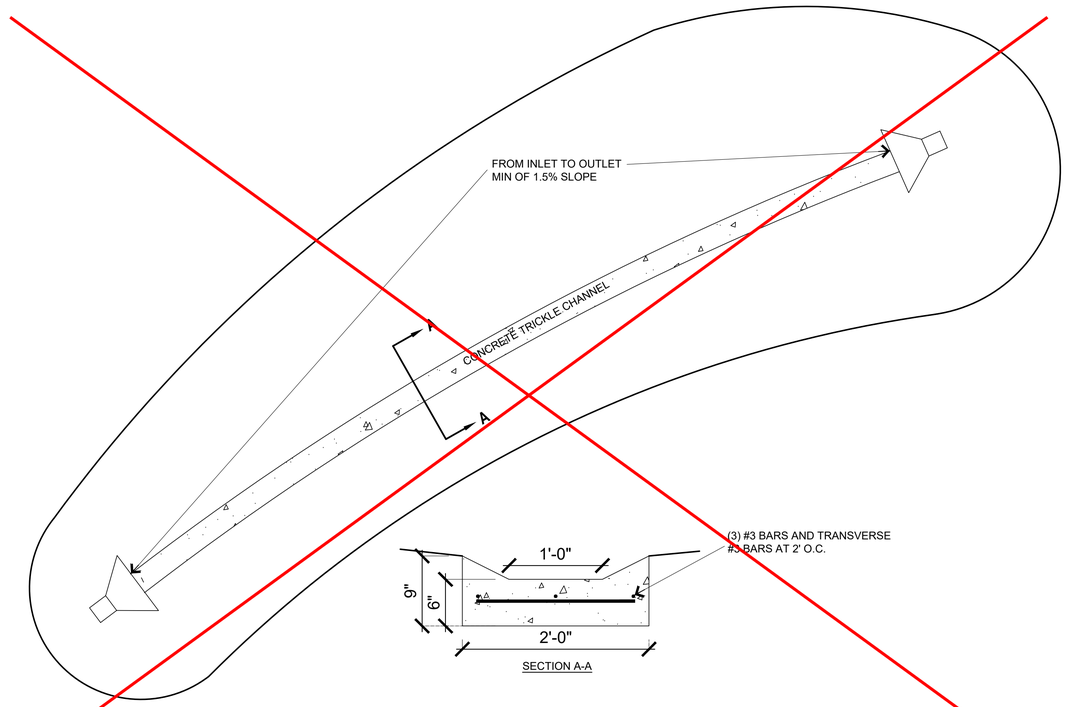
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5 SCREEN/PRIVACY FENCE

NOT USED

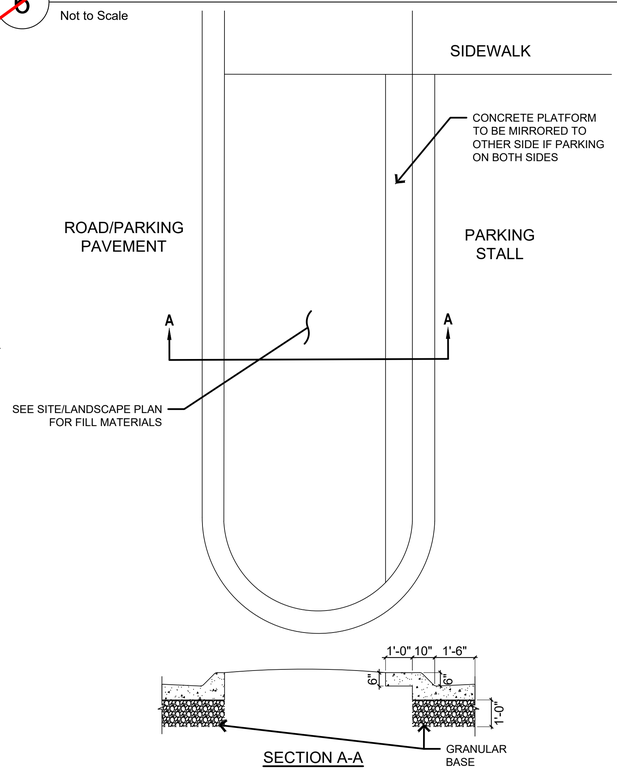
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6 TRICKLE CHANNEL DETAIL

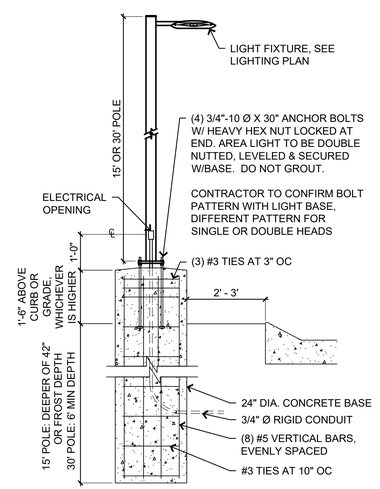
NOT USED

Not to Scale



7 PARKING LANDSCAPE ISLAND DETAIL

3/8" = 1'-0"



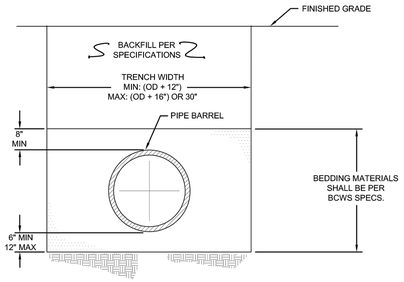
8 AREA LIGHTING

1/2" = 1'-0"

Casey's

CASEY'S CONSTRUCTION DIVISION
One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100

PROJECT: 2022 Civil Details	PLOT DATE: 01/13/22
REVISED ON:	
DRAWING INFORMATION: CONSTRUCTION DIVISION	DRAWING INFORMATION: CIVIL DETAILS
DRAWN BY: ARLON GOFORTH III	CHECKED BY:
	C-603

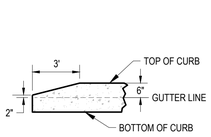


TYPICAL TRENCH DETAIL SEWER INSTALLATION

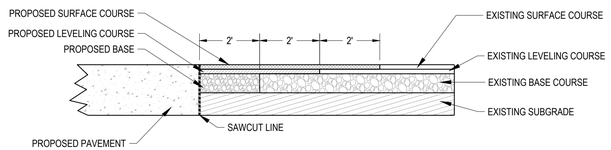
BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

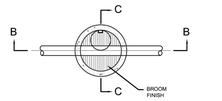
6270



CURB TAPER
NTS

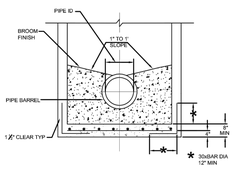


TYPICAL SAWCUT DETAIL
NTS

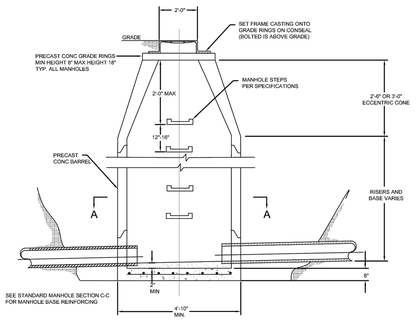


SECTION A - A

M.H. DEPTH	SLAB & DOWELL REBTEEL SQ. IN./FT. E.W.
0-10'	0.17
11'-20'	0.22
21'-30'	0.27
31'-40'	0.32



SECTION C - C

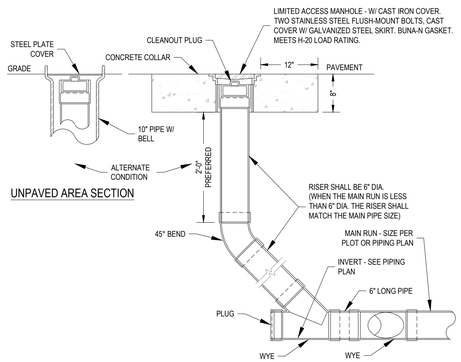


SECTION B - B

6200

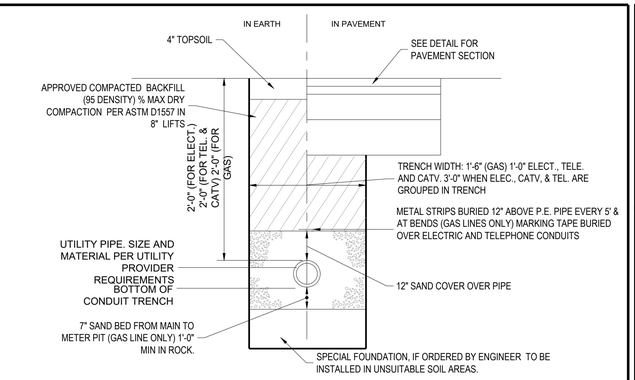
BUTLER COUNTY
WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

STANDARD MANHOLE

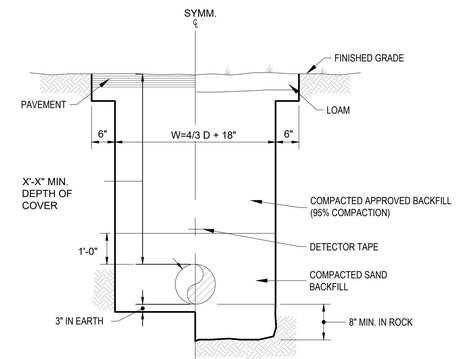


UNPAVED AREA SECTION

PIPE CLEANOUT
NTS

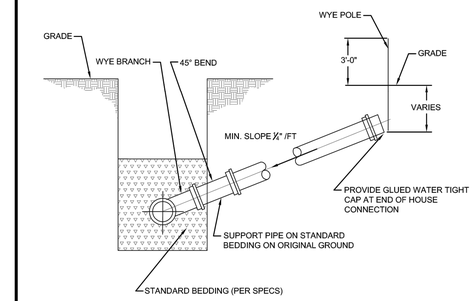


ELECTRICAL, TELEPHONE AND GAS TRENCH
NTS



NOTE:
1. FIRE LINE PIPING AND SERVICE PIPING > 3" I.D. TO BE CLASS 53 DUCTILE IRON WITH RESTRAINED JOINTS 40 FT. EACH SIDE OF ALL FITTINGS, ELBOWS AND APPURTENANCES. DOMESTIC PIPING < 3" I.D. TO BE TYPE K COPPER PER ASTM B 88.
2. NOTE: PIPING TO BE HYDROSTATIC TESTED 2 HOURS @ 100 PSI. OVER NORMAL OPERATING PRESSURE AFTER INSTALLATION

TYPICAL WATER MAIN & SERVICE TRENCH DETAIL
NTS

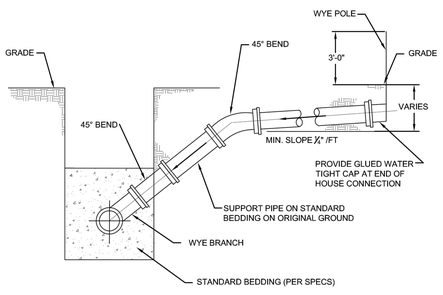


HOUSE CONNECTION FOR SHALLOW SEWER

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6290

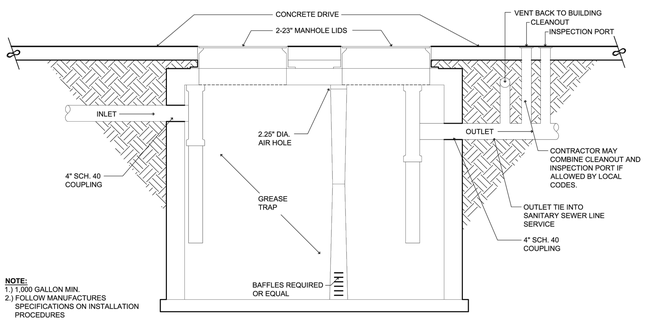


HOUSE CONNECTION FOR DEEP SEWER

BUTLER COUNTY
WATER AND SEWER\

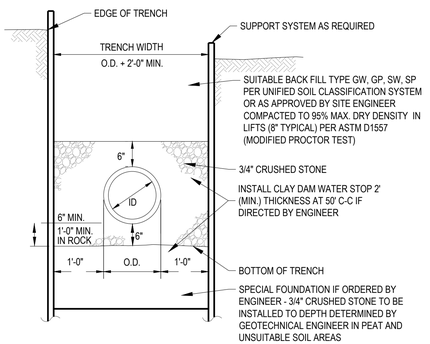
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6280



NOTE:
1.) 1,000 GALLON MIN.
2.) FOLLOW MANUFACTURES SPECIFICATIONS ON INSTALLATION PROCEDURES

GREASE INTERCEPTOR
NTS



TYPICAL SANITARY SEWER TRENCH SECTION
NTS

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NO.	DATE	REVISION DESCRIPTION
1	07/26/2021	COUNTY REVIEW COMMENTS
2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

CONSTRUCTION DETAILS

ISSUE:
CIVIL PERMIT SET
DATE:
05.19.2021

JOB NO.:	756995
DESIGN:	MST
DRAWN:	MST
CHECKED:	JJL

SHEET NO.
C-604

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Section 2721

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

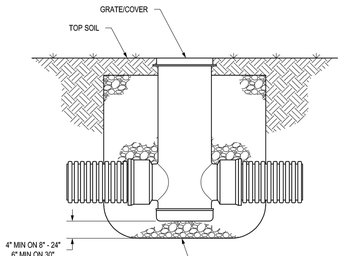
INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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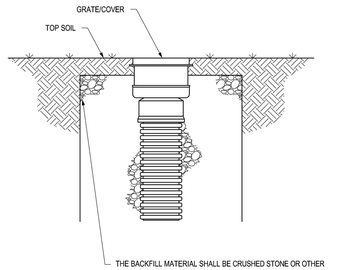
DRAWN BY CJA	MATERIAL	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 3-10-00			
REVISED BY NMH	PROJECT NO./NAME	TITLE	8 IN - 36 IN DRAIN BASIN SPECIFICATIONS
DATE 02-21-18			
DWG SIZE A	SCALE 1:1 SHEET 1 OF 1	DWG NO. 7001-110-011	REV J

NON TRAFFIC INSTALLATION

DRAIN BASIN



INLINE DRAIN



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DATE 9-30-09			
REVISED BY NMH	PROJECT NO./NAME	TITLE	DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION
DATE 03-11-16			
DWG SIZE A	SCALE 1:25 SHEET 1 OF 1	DWG NO. 7001-110-111	REV E

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2	05/25/2022	CANOPY REDUCTION REVISION
3	07/11/2022	CIVIL REVISIONS - RESUBMITTAL TO TOWNSHIP

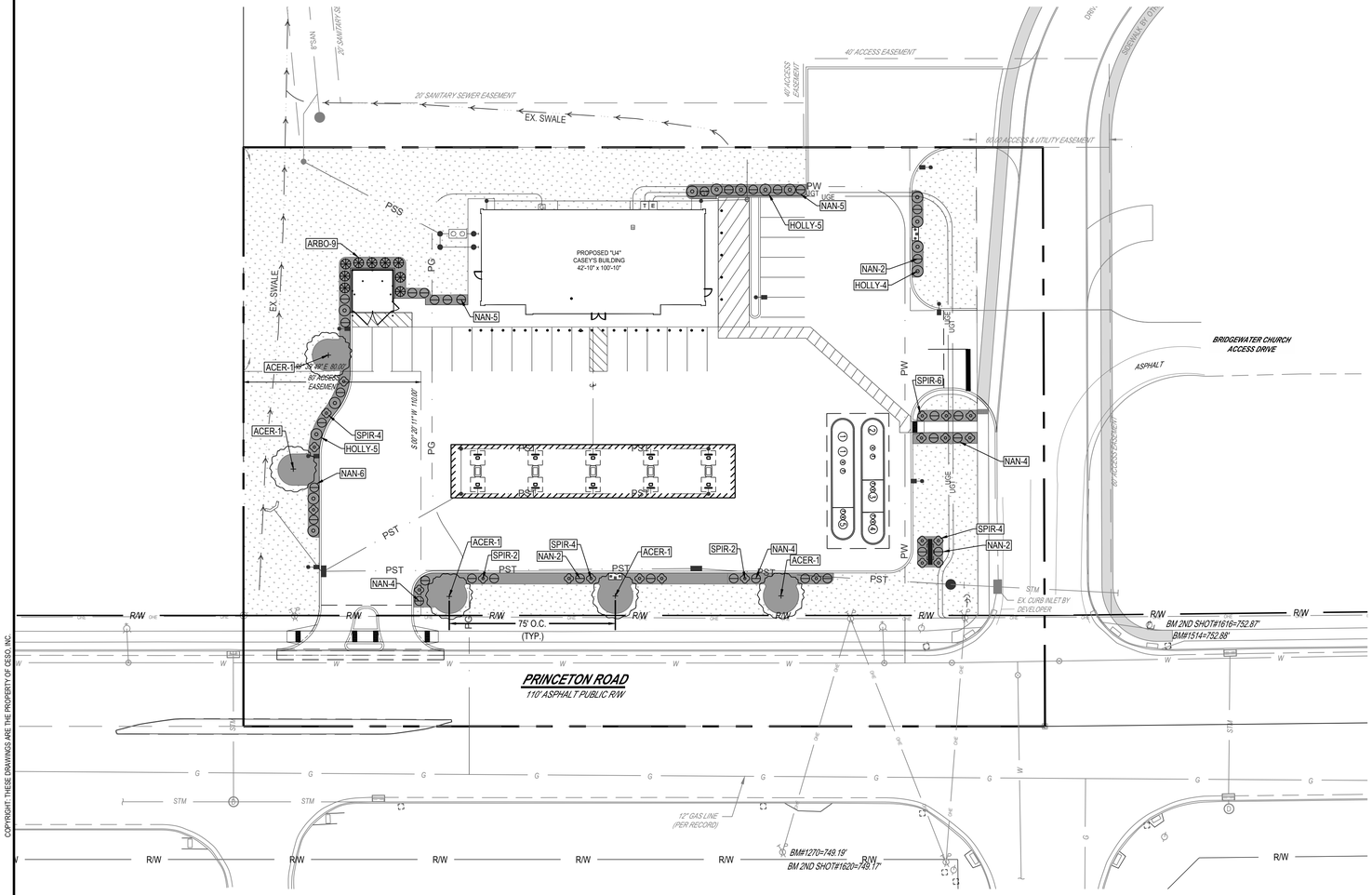
STATE OF OHIO
JEFFREY LONCHOR
E-85208
REGISTERED PROFESSIONAL ENGINEER
Jeffrey Lonchor
07/11/2022

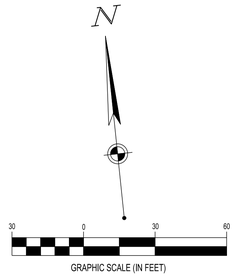
Casey's

CASEY'S
HAMILTON, OH
2994 PRINCETON RD
HAMILTON, OH 45011

CONSTRUCTION DETAILS

ISSUE:	CIVIL PERMIT SET
DATE:	05.19.2021
JOB NO.:	756995
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SHEET NO.	C-605





LEGEND

EXISTING

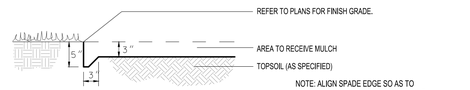
REFER TO SHEET C-001 FOR EXISTING FEATURES LEGEND

PROPOSED

SOD (OPEN SPACE)

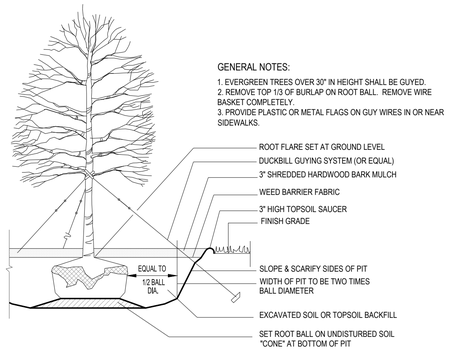
LANDSCAPE BED / BRICK CHIPS (OPEN SPACE)

SHRUBS / TREES



1 SPADE EDGE

NO SCALE



2 TREE PLANTING

NO SCALE

NOTE:
SEE SHRUB INSTALLATION DETAIL 8 ON SHEET C-601.

LANDSCAPING REQUIREMENTS:

1. MINIMUM GREEN SPACE:
   REQUIRED: 0.20 x 1.747 ACRES = 0.349 ACRES (20%)
   PROPOSED: 0.578 ACRES (33%)

2. SCREENING:
   REQUIRED: SCREENING AT REAR AND SIDE LOT LINES AS APPROVED BY THE BOARD OF FAIRFIELD TOWNSHIP TRUSTEES.
   PROPOSED: SHRUBS AS SHOWN ON THIS SHEET. SEE PLANT MATERIAL LIST ON THIS SHEET FOR SHRUB MATURE HEIGHT AND WIDTH.

PLANT MATERIAL LIST

SYM.	QTY.	PLANT NAME	NICKNAME	MATURE HT/SPD	SPACING	PLANTING SIZE
SHRUBS						
	14	'COMPACTA' JAPANESE HOLLY	HOLLY	6' / 6'	AS SHOWN	3 GAL.
	34	'FIREPOWER' DWARF NANDINA	NAN	2.5' / 2.5'	AS SHOWN	1 GAL.
	22	'GOLDFLAME' SPIREA	SPIR	3' / 4'	AS SHOWN	1 GAL.
EVERGREEN TREES						
	9	'EMERALD GREEN' ARBORVITAE	ARBO	8' / 4'	AS SHOWN	4' TALL
TREES						
	5	'TRIDENT MAPLE' ACER BUERGERIANUM	ACER	25' / 25'	AS SHOWN	2.5" CALIPER

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REVISION DESCRIPTION

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STATE OF OHIO
JEFFREY LONCHOR
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Jeffrey Lonchor
07/11/2022

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LANDSCAPE PLAN

OHIO Utilities Protection SERVICE
811 or 1-800-362-2764 Call Before You Dig

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CHECKED:	JJL
SHEET NO.	C-701

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