PRELIMINARY CIVIL/SITE DESIGN PLANS FOR:

Chart Lifecycle, Inc.
1725 N. Graham Road
Franklin, Indiana

STORMWATER POLLUTION PREVENTION PLAN INDEX		
A	CONSTRUCTION PLAN ELEMENTS	LOCATION
1	INDEX	C0.0
2	11"x17" PLAT / LAYOUT	PROVIDED SEPARATELY
3	PROJECT NARRATIVE	C4.2
4	VICINITY MAP	C0.0
5	LEGAL DESCRIPTION OF PROJECT SITE – INCLUDING LATITUDE AND LONGITUDE	C4.2
6	LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS	C2.0
7	HYDROLOGIC UNIT CODE (14 DIGIT)	C4.2
8	NOTATION OF ANY STATE OR FEDERAL WATER QUALITY PERMITS	C4.2
9	LOCATIONS OF STORMWATER DISCHARGE POINTS FROM SITE	C1.0
10	NAMES AND LOCATIONS OF WETLANDS, LAKES AND WATER COURSES	C4.2
11	IDENTIFICATION OF ALL RECEIVING WATERS	C4.2
12	IDENTIFICATION OF POTENTIAL DISCHARGES TO GROUNDWATER	C4.2
13	100 YEAR FLOODPLAINS, FLOODWAYS AND FLOODWAY FRINGES	C4.2
14	ESTIMATES OF PRE AND POST CONSTRUCTION PEAK DISCHARGES	C4.2
15	ADJACENT LAND USE, INCLUDING UPSTREAM WATERSHED	C4.2
16	LOCATIONS AND BOUNDARIES OF ALL DISTURBED AREAS (CONSTRUCTION LIMITS)	C4.0
17	INDENTIFICATION OF EXISTING VEGETATIVE COVER	C1.0
18	SOILS MAP INCLUDING SOIL DESCRIPTIONS AND LIMITATIONS	C4.2
19	LOCATIONS, SIZES AND DIMENSIONS OF PROPOSED STORMWATER SYSTEMS	N/A
20	PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES	N/A
21	LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL AREAS	C4.0
22	EXISTING SITE TOPOGRAPHY AND DRAINAGE PATTERNS	C1.0
23	PROPOSED FINAL TOPOGRAPHY AND DRAINAGE PATTERNS	C2.0
B	STORMWATER POLLUTION PREVENTION PLAN – CONSTRUCTION COMPONENT	LOCATION
1	POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	C4.2
2	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	C4.2
3	CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS	C4.2
4	SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS	C4.2
5	SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS	C4.2
6	STORMWATER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS	C4.2
7	RUNOFF CONTROL MEASURES	C4.2
8	STORMWATER OUTLET PROTECTION SPECIFICATIONS	C4.2
9	GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS	C4.2
10	LOCATION, DIMENSIONS, SPECIFICATIONS AND DETAILS OF EACH MEASURE	C4.2
11	TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON	C4.2
12	PERMANENT SURFACE STABILIZATION SPECIFICATIONS	C4.2
13	MATERIAL HANDLING AND SPILL PREVENTION PLAN	C4.2
14	MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED MEASURE	C4.2
15	EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS	N/A
C	STORMWATER POLLUTION PREVENTION PLAN – POST CONSTRUCTION COMPONENT	LOCATION
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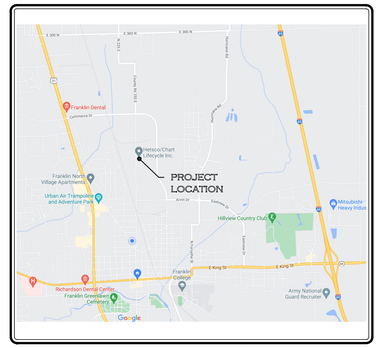
2	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	C4.2
3	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES	C4.2
4	LOCATION, DIMENSIONS, SPECIFICATIONS AND DETAILS OF EACH MEASURE	C4.2
5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION MEASURES	C4.2

CONSTRUCTION PLAN INDEX	
SHEET	DESCRIPTION
C0.0	TITLE SHEET
C1.0	TOPOGRAPHIC SURVEY
C1.1	POND AS-BUILT DATA
C1.2	DEMOLITION PLAN
C1.3	OVERALL LOT
C2.0	SITE/GRADING PLAN
C4.0	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
C4.1	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C4.2	STORMWATER POLLUTION PREVENTION PLAN NOTES
C4.3	STORMWATER POLLUTION PREVENTION PLAN SPECIFICATIONS
C4.4	STORMWATER POLLUTION PREVENTION PLAN NOTES
C8.0	LANDSCAPIING PLAN

REVISION RECORD		
DATE	DESCRIPTION	SHEET(S)
04.27.2021	ADD OVERALL LOT & LANDSCAPING PLAN	C1.3 & C8.0
.	.	.
.	.	.
.	.	.



VICINITY MAP
NOT TO SCALE

SITE DATA

LOT AREA = 11.199± ACRES GROSS
= 11.199± ACRES NET OF R/W

GROSS EXISTING BUILDING AREA = 51,340 SF

ZONING DESIGNATIONS
SITE IG – INDUSTRIAL, GENERAL
NORTH IG – INDUSTRIAL, GENERAL
SOUTH IG – INDUSTRIAL, GENERAL
EAST IG – INDUSTRIAL, GENERAL
WEST IN – INSTITUTIONAL
WEST RSN – RESIDENTIAL SUBURBAN NEIGHBORHOOD

PROPOSED USE: EXPAND OUTSIDE STORAGE CAPACITY ON TOTAL OF 73,150 SF (1.68± AC) GRAVEL STORAGE AREA WITH GEOGRID REINFORCEMENT MATERIAL.

PROPOSED COVENANTS: NONE

FLOOD ZONE DESIGNATION: X (SHADED)

PROPOSED START DATE JULY 1, 2021
PROPOSED END DATE DECEMBER 31, 2021

811 Know what's below. Call before you dig.

LEGAL DESCRIPTION

Limited Warranty Deed to
BROOKSIDE INDUSTRIAL PARK LIMITED LIABILITY COMPANY
Instrument 2019-024906

Lot Numbered 1 in Franklin Business Park, an addition to the City of Franklin as recorded in Plat Cabinet E, page 117 in the Office of the Recorder of Johnson COunty, Indiana.

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BENCHMARKS:

FRANKLIN 1920 NO 1 1974 = 730.55 (NAVD 1988)
REFERENCE MARK 1 IS A STANDARD DISK STAMPED FRANKLIN 1920 NO 1 1974 SET IN A DRILL HOLE IN THE TOP AND SOUTHWEST CORNER OF THE CONCRETE BASE OF RAILROAD CROSSING LIGHT , 24 FEET NORTH OF THE CENTERLINE OF MADISON STREET AND 16 FEET EAST OF THE EAST RAIL OF THE RAILROAD BETWEEN CROWELL AND DEPOT STREETS.

TBM#1 = 749.82
REBAR WITH RED CAP MARKED MAURER RLS 880006 AT THE SOUTHEAST CORNER OF LOT 1.

TBM#2 = 747.99
REBAR WITH NO CAP AT THE SOUTHWEST CORNER OF LOT 1.

ENGINEER:

Main Streeet Consulting Company
MAIN STREET CONSULTING COMPANY
675 North Main Street
Franklin, IN 46131-1345
Contact: Bradley P. Ott, P.L.S., P.E.
Telephone: 317.459.4765
ott@mainstreetconsulting.com

PROJECT CONTACT:

Eric B Wiseman | Sr. Project Manager
Chart Lifecycle, Inc.
1725 Graham Rd. | Franklin, IN | 46131 | USA
Direct: 317-836-5778 | Mobile: 317-499-4855 |
eric.wiseman@ChartLifecycle.com | www.chartlifecycle.com

BRADLEY P. OTT REGISTERED № PE0200097 STATE OF INDIANA PROFESSIONAL ENGINEER

Date: 04.27.2021

PROJECT NUMBER	21-002
DESIGN PHASE	PRELIMINARY
SHEET NO.:	C0.0

BENCHMARKS:

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EXISTING LEGEND:

DESCRIPTION:	DESCRIPTION:
EXISTING ASPHALT	TRAFFIC POLE
EXISTING STONE	TRAFFIC MANHOLE
EXISTING CONCRETE	SANITARY MANHOLE
TEMPORARY BENCH MARK	CLEAN OUT
SECTION CORNER	CURB INLET
REBAR FOUND	INLET
REBAR SET	DRAINAGE MANHOLE
POWER POLE	GAS METER
GUY WIRE	GAS VALVE
ELECTRIC TRANSFORMER	GAS MARKER
ELECTRIC CROSS BOX	BUSH
AIR CONDITIONER	DECIDUOUS TREE
ELECTRIC METER BOX	CONIFEROUS TREE
LIGHT POLE	FARM FIELD FENCE
GUARD POST	CHAIN LINK FENCE
TELEPHONE PEDESTAL	FLOWLINE
SOIL BORING	OVERHEAD ELECTRIC LINE
MAIL BOX	UNDERGROUND ELECTRIC
SIGN	UNDERGROUND TELEPHONE
WATER VALVE	FIBER OPTIC LINE
FIRE HYDRANT	WATER LINE
WATER METER	GAS LINE

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TOPO NOTE:

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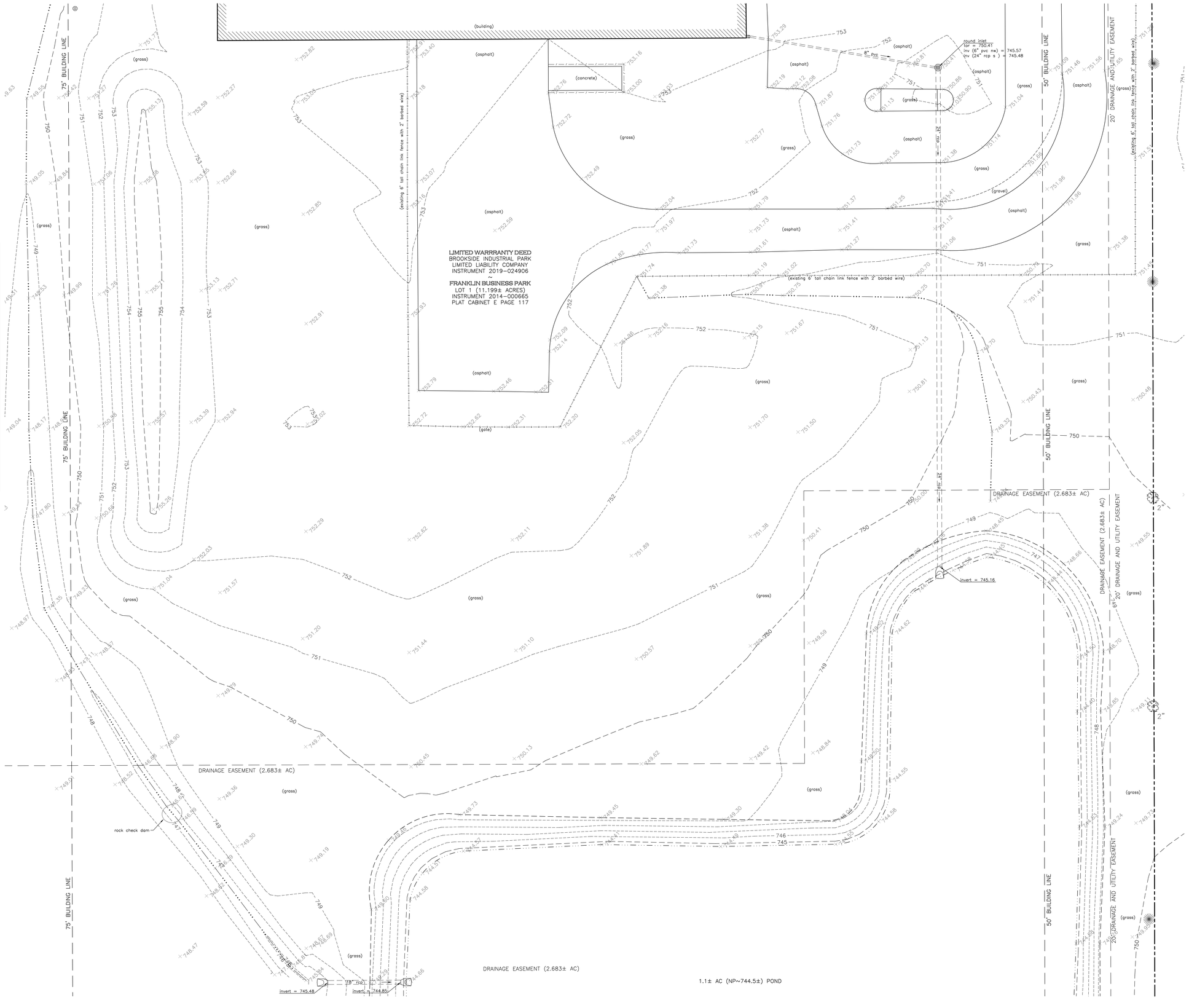

Scale 1" = 20'

MAIN STREET CONSULTING COMPANY
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Franklin, IN 46131
PH: 317.459.4765
att@mainstreetconsulting.com
www.mainstreetconsulting.com

BRADLEY B. OTT
REGISTERED
No. 9800012
STATE OF INDIANA
LAND SURVEYOR

REVISIONS

TOPOGRAPHIC SURVEY

Chart Lifecycle, Inc.

1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C1.0-TOPO.DWG
DATE: 04.18.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: 1"=20'

TOPO

SHEET NO.:
C1.0

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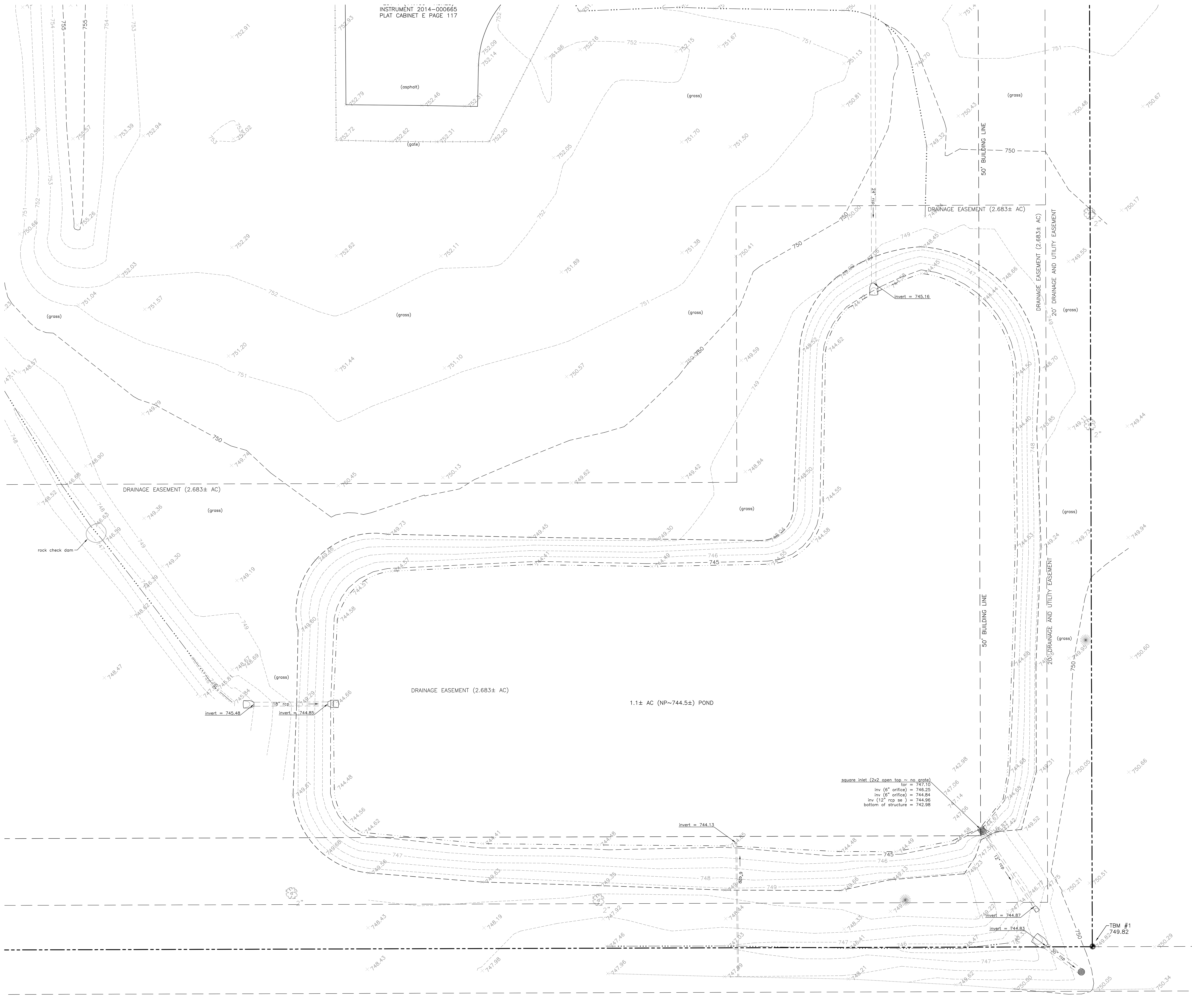

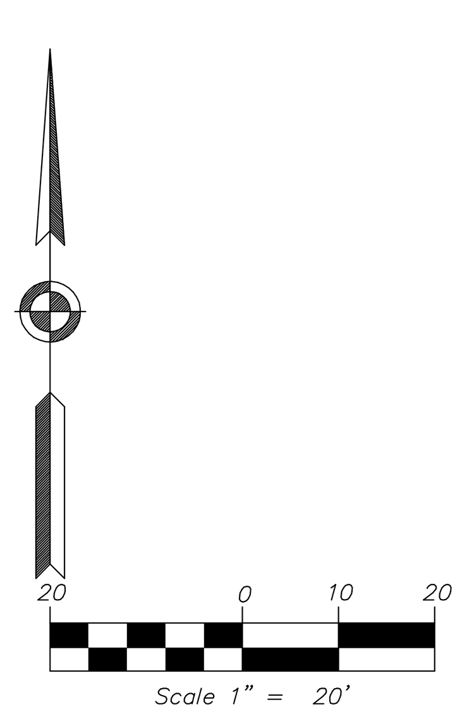

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BRADLEY P. OTT REGISTERED No. 9600012 STATE OF INDIANA LAND SURVEYOR

REVISIONS

POND AS-BUILT DATA

Chart Lifecycle, Inc.

1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C1.1-POND.DWG
DATE: 04.21.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: 1"=20'

POND

SHEET NO.:
C1.1

BENCHMARKS:

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	GUARD POST		CHAIN LINK FENCE
	TELEPHONE PEDESTAL		FLOWLINE
	SOIL BORING	—ohel—	OVERHEAD ELECTRIC LINE
	MAIL BOX	—elec—	UNDERGROUND ELECTRIC
	SIGN	—tele—	UNDERGROUND TELEPHONE
	WATER VALVE	— f/opt —	FIBER OPTIC LINE
	FIRE HYDRANT	— wtr —	WATER LINE
	WATER METER	— gas —	GAS LINE

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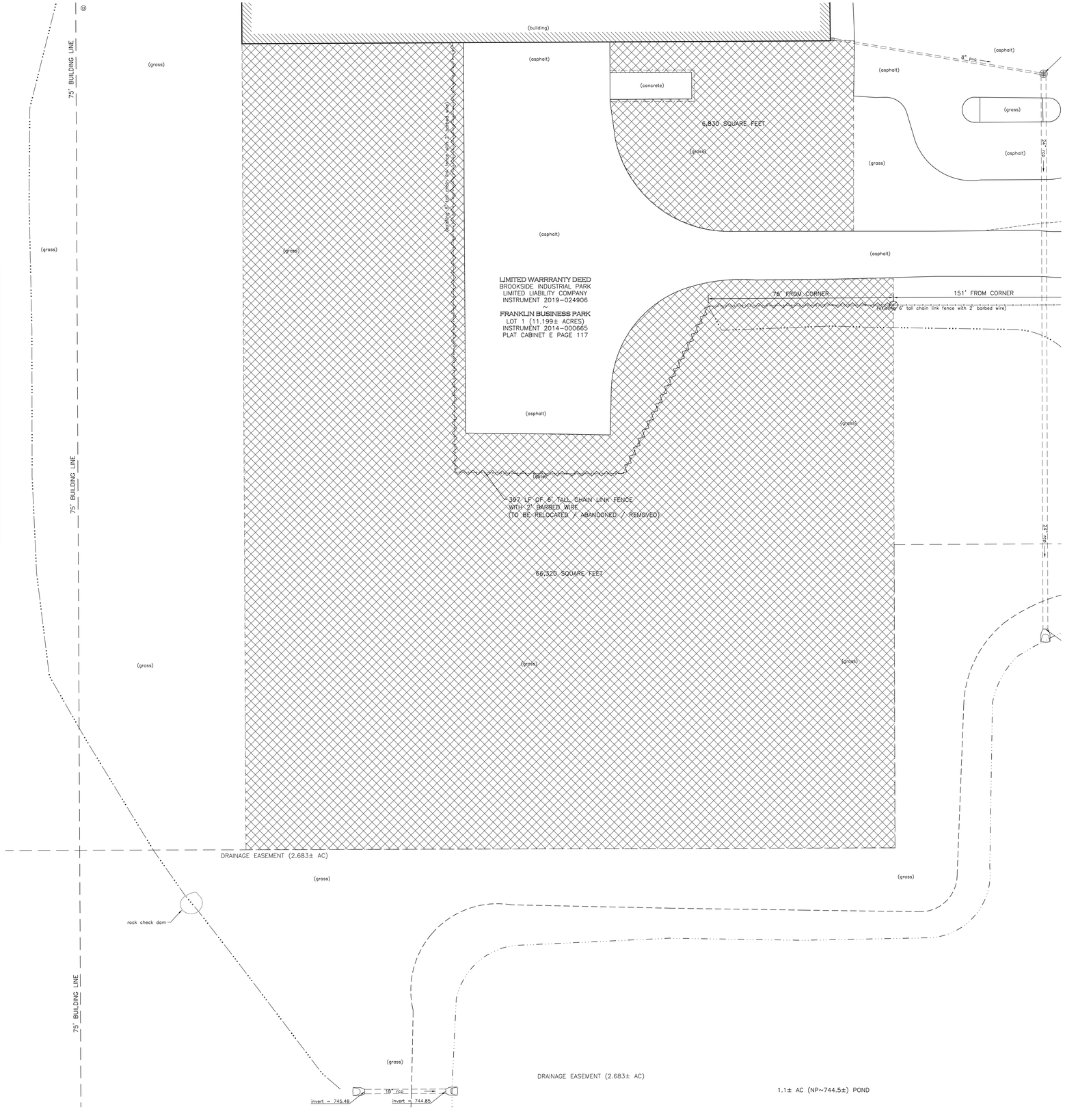

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OFF-SITE OF ALL ITEMS SHOWN ON THE DEMOLITION PLAN INCLUDING ITEMS ENCOUNTERED DURING EXCAVATION OF BUILDING FOUNDATIONS AND UTILITY PLACEMENT.
2. PRIOR TO STARTING DEMOLITION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES FOR THE DISCONNECTION AND REMOVAL OF SERVICES TO EXISTING STRUCTURES.
4. ITEMS SHOWN ON THE DEMOLITION PLAN TO BE SALVAGED SHALL BE TRANSPORTED TO A LOCATION SPECIFIED BY THE OWNER OR HIS\HER REPRESENTATIVE.
5. ITEMS OF SALVAGEABLE VALUE TO THE CONTRACTOR MAY BE REMOVED WITH THE PERMISSION OF THE OWNER OR HIS\HER REPRESENTATIVE. THE CONTRACTOR SHALL NOT STORE THESE ITEMS ON SITE.
6. THE CONTRACTOR SHALL NOT USE EXPLOSIVES OR BURN DEBRIS.
7. CONDUCT DEMOLITION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, SIDEWALKS AND ANY OTHER ADJACENT OCCUPIED FACILITIES.
8. DO NOT CLOSE OR OBSTRUCT ROADS, SIDEWALKS, OR ANY OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND\OR PROPERTY OWNERS.
9. THE CONTRACTOR SHALL ENSURE SAFE PASSAGE OF PERSONS TRAVERSING THROUGH OR AROUND THE CONSTRUCTION SITE.
10. THE CONTRACTOR SHALL PROTECT SURROUNDING STRUCTURES, UTILITIES, AND OTHER FACILITIES FROM DAMAGE DURING DEMOLITION AND REMOVAL OPERATIONS.
11. BUILDING STRUCTURES INCLUDING FOUNDATIONS AND BASEMENTS, SHALL BE REMOVED AND BACKFILLED WITH APPROVED BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT INCHES IN THICKNESS. EACH LIFT SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, OR IF SUCH REPORT IS UNAVAILABLE, TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3% OF OPTIMUM MOISTURE CONTENT.
12. UTILITIES SHALL BE REMOVED AND THE TRENCHES BACKFILLED WITH APPROVED BACKFILL MATERIAL. BACKFILL MATERIAL SHALL BE PLACED IN MAXIMUM EIGHT INCH LIFTS AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557, MODIFIED PROCTOR METHOD +/- 3% OF OPTIMUM MOISTURE CONTENT.
13. TRANSPORT DEMOLITION MATERIAL TO AN INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PERMITTED LANDFILL.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE CONSTRUCTION SITE AND SURROUNDING AREAS ARE FREE OF ACCUMULATED DEBRIS.

DEMOLITION LEGEND:

DESCRIPTION:	
	CHAIN LINK FNC LINE TO BE RELOCATED
⊘	MISC. ITEM TO BE REMOVED
	TOP SOIL TO BE REMOVED

Know what's below. Call before you dig.

20 0 10 20
Scale 1" = 20'

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675 North Main Street PH: 317.459.4765
Franklin, IN 46131 att@mainstreetconsulting.com
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BRADLEY R. OTT
REGISTERED
NO PE0200097
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

DEMOLITION PLAN

Chart Lifecycle, Inc.
1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C1.2-DEMO.DWG
DATE: 04.21.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: 1"=20'

DEMO

SHEET NO.:
C1.2

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E	ELECTRIC METER BOX		CONIFEROUS TREE
	LIGHT POLE	x	FARM FIELD FENCE
	GUARD POST	o	CHAIN LINK FENCE
	TELEPHONE PEDESTAL	* * *	FLOWLINE
	SOIL BORING	ohel	OVERHEAD ELECTRIC LINE
	MAIL BOX	elec	UNDERGROUND ELECTRIC
	SIGN	tele	UNDERGROUND TELEPHONE
	WATER VALVE	f/opt	FIBER OPTIC LINE
	FIRE HYDRANT	wtr	WATER LINE
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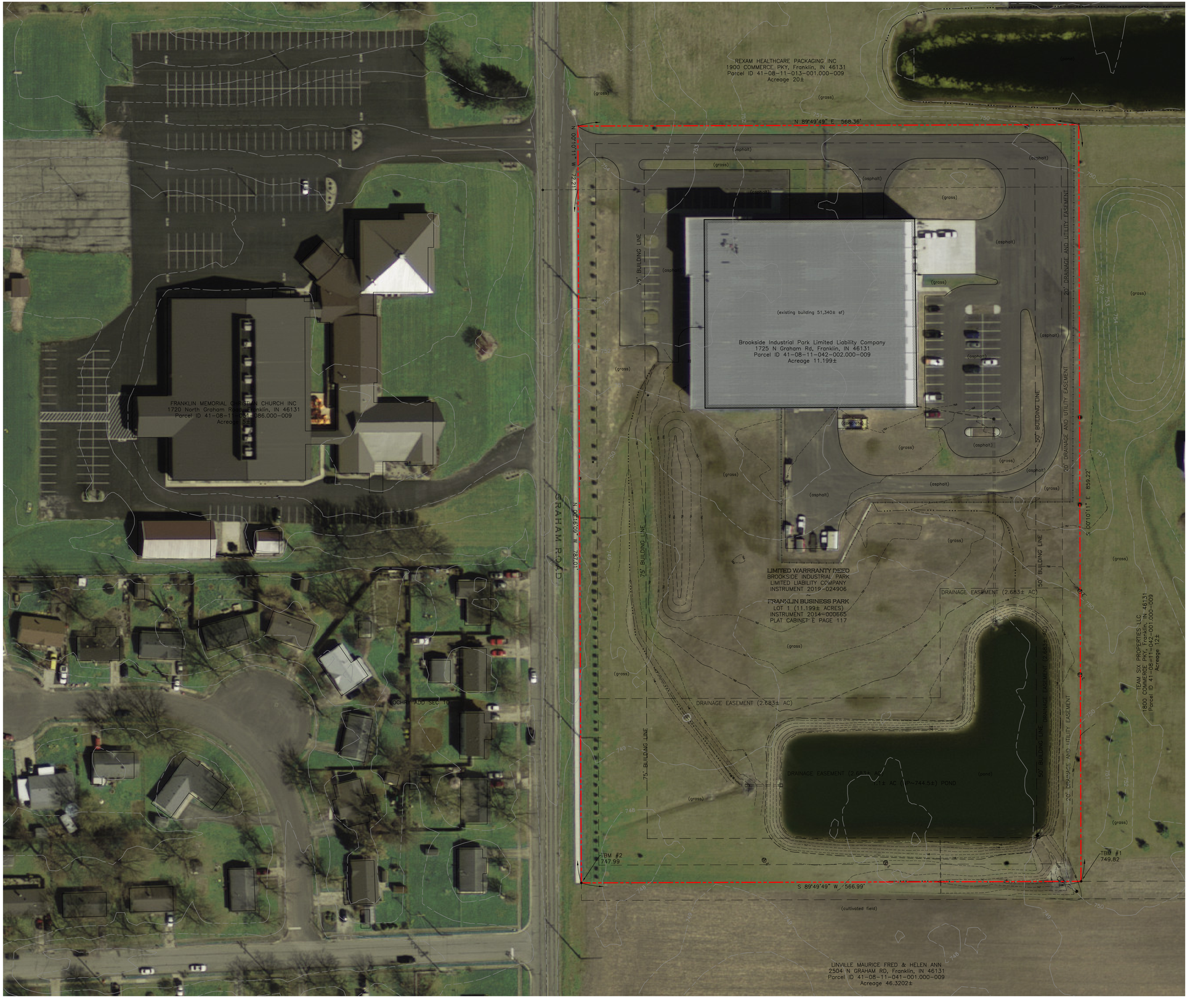

50 0 25 50
Scale 1" = 50'

MAIN STREET CONSULTING COMPANY
675 North Main Street PH: 317.459.4765
Franklin, IN 46131 ott@mainstreetconsulting.com
www.mainstreetconsulting.com

BRADLEY B. OTT
REGISTERED
No. 9800012
STATE OF INDIANA
LAND SURVEYOR

REVISIONS
. . .

OVERALL LOT

Chart Lifecycle, Inc.

1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C1.3-LOT.DWG
DATE: 04.27.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY:
SCALE: 1"=50'

OVERALL

SHEET NO.:
C1.3

BENCHMARKS:

FRANKLIN 1920 NO 1 1974 = 730.55 (NAVD 1988)
REFERENCE MARK 1 IS A STANDARD DISK STAMPED FRANKLIN 1920 NO 1 1974 SET IN A DRILL HOLE IN THE TOP AND SOUTHWEST CORNER OF THE CONCRETE BASE OF RAILROAD CROSSING LIGHT , 24 FEET NORTH OF THE CENTERLINE OF MADISON STREET AND 16 FEET EAST OF THE EAST RAIL OF THE RAILROAD BETWEEN CROWELL AND DEPOT STREETS.

TBM#1 = 749.82
REBAR WITH RED CAP MARKED MAURER RLS 880006 AT THE SOUTHEAST CORNER OF LOT 1.

TBM#2 = 747.99
REBAR WITH NO CAP AT THE SOUTHWEST CORNER OF LOT 1.

UTILITY STATEMENT:

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EXISTING LEGEND:

DESCRIPTION:		DESCRIPTION:
	EXISTING ASPHALT	TRAFFIC POLE
	EXISTING STONE	TRAFFIC MANHOLE
	EXISTING CONCRETE	SANITARY MANHOLE
	TEMPORARY BENCH MARK	CLEAN OUT
	SECTION CORNER	CURB INLET
	REBAR FOUND	INLET
	REBAR SET	DRAINAGE MANHOLE
	POWER POLE	GAS METER
	GUY WIRE	GAS VALVE
ET	ELECTRIC TRANSFORMER	GAS MARKER
	ELECTRIC CROSS BOX	BUSH
AC	AIR CONDITIONER	DECIDUOUS TREE
E	ELECTRIC METER BOX	CONIFEROUS TREE
	LIGHT POLE	FARM FIELD FENCE
	GUARD POST	CHAIN LINK FENCE
	TELEPHONE PEDESTAL	FLOWLINE
	SOIL BORING	OVERHEAD ELECTRIC LINE
	MAIL BOX	UNDERGROUND ELECTRIC
	SIGN	UNDERGROUND TELEPHONE
	WATER VALVE	FIBER OPTIC LINE
	FIRE HYDRANT	WATER LINE
	WATER METER	GAS LINE

FLOOD ZONE NOTE:

The accuracy of any flood hazard data shown on this survey is subject to map scale uncertainty and to any other uncertainty in location or elevation on the referenced Flood Insurance Rate Map. The property described on this Survey is located in Zone X (shaded 0.2% annual chance flood hazard) and IS NOT located in Zone A (Areas of 100 year flood) as said tract plots by scale on Community Panel No. 18081 C 0231 E of the Flood Insurance Rate Maps for Johnson County, Indiana dated January 29, 2021.

TOPO NOTE:

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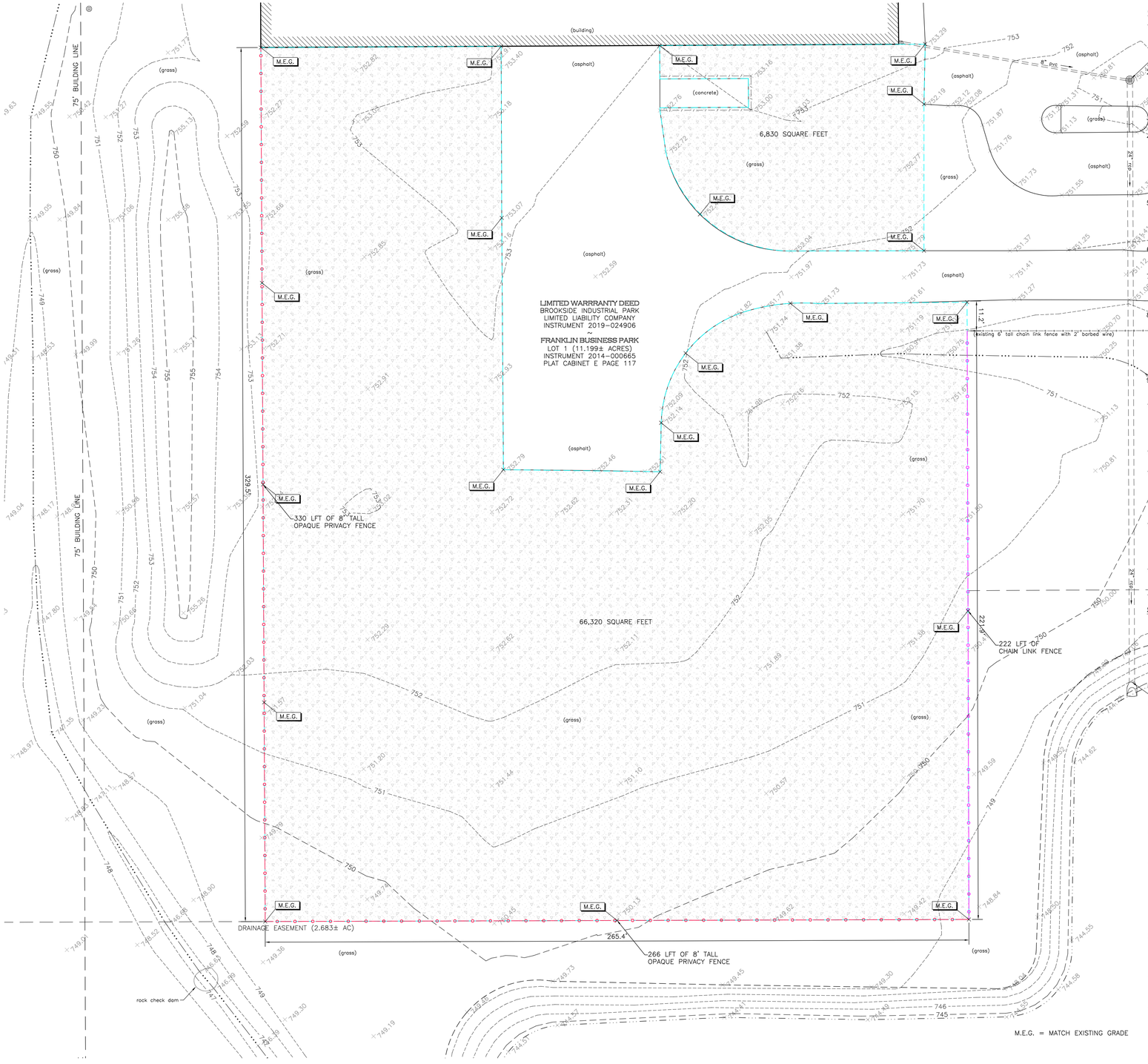
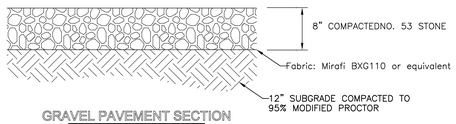


M.E.G. = MATCH EXISTING GRADE



GRAVEL PAVEMENT SECTION
NOT TO SCALE

811 Know what's below. Call before you dig.

20 0 10 20
Scale 1" = 20'

GENERAL NOTES

1. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
3. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS AND CITY BENCH MARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST RELOCATE THE PROPERTY MARKERS OR MONUMENTS, THEIR LOCATION SHALL BE REFERENCED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE MOVING. ALL PROPERTY MARKERS AND MONUMENTS RELOCATED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THE SITE ON TO OTHER SITES, RIGHT-OF-WAYS, PUBLIC OR PRIVATE STREETS, DRIVEWAYS, YARDS, OR SIDEWALKS. THE CONTRACTOR MUST CLEAN DAILY IF NECESSARY. WATER MAY BE USED AS A REDUCER.
6. ROADWAY SURFACING AND BASE MATERIALS, OR ANY OTHER PROPERTY REMOVED OR DAMAGED, SHALL BE REPLACED OR REPAIRED AS PROVIDED FOR IN THE SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR TO PROVIDE FOR ACCESS TO THE RESIDENCES ACROSS THE WORK AREA.
8. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION CONTROL AND THE SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL, OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THE PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
9. INFORMATION ON DETAIL DRAWINGS TAKES PRIORITY OVER ALL GENERAL DRAWINGS AND SCHEDULES. CONFLICTS SHALL BE RESOLVED ACCORDINGLY.
10. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED AND NOTIFICATION GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
11. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES MENTIONED ABOVE UNLESS OTHERWISE NOTED IN THE CONTRACT OR SPECIFICATIONS. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS ARE INCIDENTAL TO THE CONTRACT.
13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE ENGINEERING PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
14. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
15. ALL TRAFFIC AND STREET SIGNAGE SHALL MEET MUTCD STANDARDS, LATEST EDITION.

SITE LAYOUT NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY, OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. ALL PARKING STRIPES ARE TO BE 4" PAINTED WHITE. UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS, OR SPECIFICATIONS.
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, WHERE APPLICABLE.
4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND ELEVATIONS DURING THE ENTIRE CONSTRUCTION SCHEDULE. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD DIMENSIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
6. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING AREAS AS NECESSARY. ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING.
7. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SODDED/SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.
8. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS HAVE DAMAGED EXISTING PAVEMENT, LAWNS OR OTHER IMPROVEMENTS DURING CONSTRUCTION, AFTER CONSTRUCTION WORK IS COMPLETE.
9. ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR BACKFILL.
10. ALL RADII INDICATED SHALL BE CONSTRUCTED AS CIRCULAR ARCS.

GRADING NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ONSITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
5. TRENCHES FOR ALL STORM PIPES SHALL BE BACKFILLED COMPLETELY WITH ENGINEERED GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
6. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
7. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS, AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, "BIRD BATH" CONDITIONS.
8. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
9. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
10. FLOW LINE ELEVATIONS ARE GIVEN AT END OF CONCRETE END SECTIONS.
11. TOR = TOP OF RIM AND REFLECTS PAVEMENT GRADE.

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BRADLEY R. OTT
REGISTERED
NO PE0200097
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

SITE / GRADING PLAN

Chart Lifecycle, Inc.
1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C2.0-SITE-GP.DWG
DATE: 04.21.2021
PROJ. NO.: 21.002
DRAWN BY: BOTT
SURVEYED BY: BOTT
SCALE: 1"=20'

SITE-GP

SHEET NO.:
C2.0

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EXISTING LEGEND:

DESCRIPTION:		DESCRIPTION:	
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	EXISTING CONCRETE	S	SANITARY MANHOLE
	TEMPORARY BENCH MARK	CO	CLEAN OUT
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	ELECTRIC CROSS BOX		BUSH
AC	AIR CONDITIONER		DECIDUOUS TREE
E	ELECTRIC METER BOX		CONIFEROUS TREE
	LIGHT POLE		FARM FIELD FENCE
	GUARD POST		CHAIN LINK FENCE
	TELEPHONE PEDESTAL		FLOWLINE
	SOIL BORING	—ohel—	OVERHEAD ELECTRIC LINE
	MAIL BOX	—elec—	UNDERGROUND ELECTRIC
	SIGN	—tele—	UNDERGROUND TELEPHONE
	WATER VALVE	— f/opt —	FIBER OPTIC LINE
	FIRE HYDRANT	— wtr —	WATER LINE
	WATER METER	— gas —	GAS LINE

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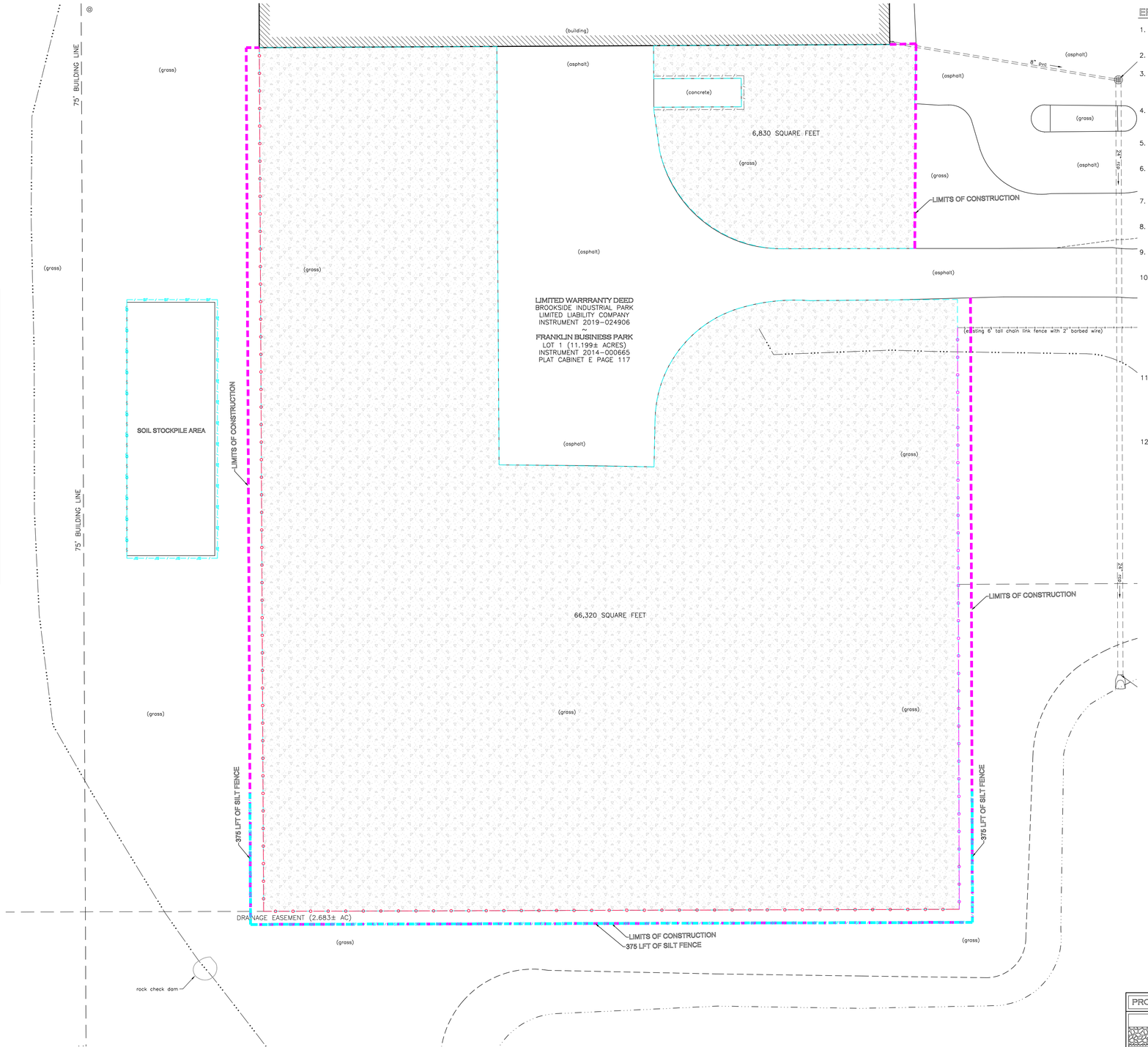

EROSION CONTROL NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
5. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
6. SEDIMENT BEING TRACED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
7. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
8. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
9. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.
10. SCHEDULE OF EARTHWORK ACTIVITIES:
    a) THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
    b) TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIME OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
11. INFORM ALL GENERAL CONTRACTORS, CONSTRUCTION MANAGEMENT FIRMS, GRADING OR EXCAVATING CONTRACTORS, AND ALL OTHER CONTRACTORS WITH PRIMARY OVERSIGHT ON INDIVIDUAL BUILDING LOTS OF THE TERMS AND CONDITIONS OF THE STORM WATER RULE 5, AND THE CONDITIONS AND STANDARDS OF THIS EROSION CONTROL PLAN, SCHEDULE FOR IMPLEMENTATION, AND THE CONSTRUCTION SITE EROSION CONTROL PLAN REPORT.
12. ADDITIONAL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

PROPOSED EROSION CONTROL LEGEND:

DESCRIPTION:		DETAIL #/SH. #
	PROPOSED GRAVEL CONST. ENTRANCE	DETAIL 01/C4.1
	PROPOSED EROSION CONTROL MAT	DETAIL 02/C4.1
	PROPOSED RIPRAP	DETAIL 03/C4.1
DB	PROPOSED DANDY BAG INLET PROTECTION	DETAIL 04/C4.1
-/-SF-/-	PROPOSED SILT FENCE	DETAIL 05/C4.1
	TEMPORARY AND PERMANENT SEEDING	DETAIL 06/C4.1
	CONSTRUCTION LIMITS	

Know what's below. Call before you dig.

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Scale 1" = 20'

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BRADLEY P. OTT
REGISTERED
№ PE0200097
STATE OF
INDIANA
PROFESSIONAL ENGINEER

REVISIONS

SWPPP

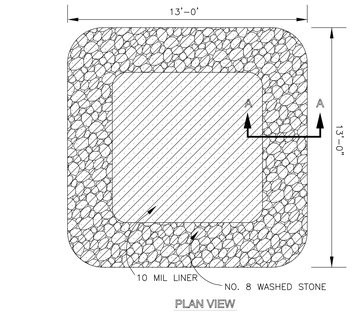
Chart Lifecycle, Inc.
1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C4.0-SWPPP.DWG
DATE: 04.21.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: 1"=20'

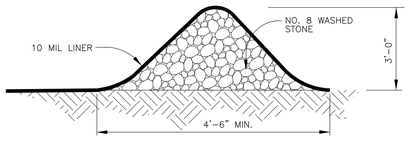
SWPPP

SHEET NO.:
C4.0

EROSION CONTROL SCHEDULE POST CONSTRUCTION			
MEASURE	MAINTENANCE/MONITORING ACTIVITY	SCHEDULE	INSTALLATION SEQUENCE
DETENTION/RETENTION BASINS	• CLEANING AND REMOVAL OF DEBRIS • HARVEST VEGETATION WHEN 50% REDUCTION IN THE ORGINAL OPEN WATER SURFACE AREA OCCURS. • REPAIR OF EMBANKMENT AND SIDE SLOPES • REPAIR OF CONTROL STRUCTURE	ANNUAL OR AS NEEDED	DURING ROUGH GRADING
	• REMOVAL OF ACCUMULATED SEDIMENT FROM FOREBAYS OR SEDIMENT STORAGE AREAS WHEN 60% OF THE ORIGINAL VOLUME HAS BEEN LOST	5-YEAR CYCLE	
	• REMOVAL OF ACCUMULATED SEDIMENT FROM MAIN PART OF POND ONCE 50% OF ORIGINAL VOLUME HAS BEEN LOST	20-YEAR CYCLE	
PERMANENT SEEDING	• WATERING ONCE ESTABLISHED & THROUGH DROUGHT TIMES • MOWING AND LITTER DEBRIS REMOVAL • STABILIZATION OF ERODED SLOPES • NUTRIENT AND PESTICIDE USE MANAGEMENT • DETHATCHING AND REMOVAL OF THATCHING • DISCING OR AERATION	ANNUAL OR AS NEEDED	AFTER FINAL GRADING
	• SEEDING/SODDING TO RESTORE GROUND COVER (USE PROPER EROSION AND SEDIMENT CONTROL)	5-YEAR CYCLE	
EROSION CONTROL MATS	• PER MANUFACTURER'S RECOMMENDATIONS	PER MANUFACTURER'S RECOMMENDATION	AFTER FINAL GRADING



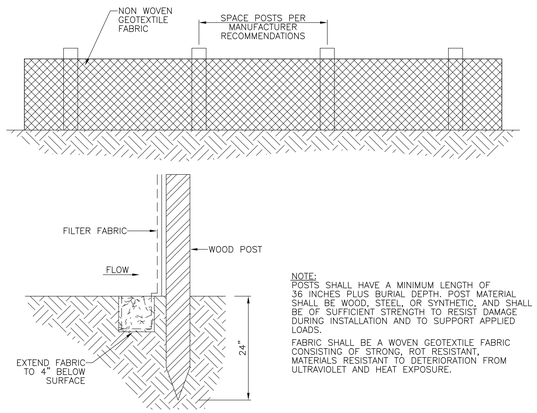
PLAN VIEW



CROSS SECTION A-A

CONCRETE (MASONRY) CLEANOUT

NOT TO SCALE



NOTE:
POSTS SHALL HAVE A MINIMUM LENGTH OF 36 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE WOOD, STEEL, OR SYNTHETIC, AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.

SILT FENCE CONSTRUCTION 05 C4.1

NOT TO SCALE

	SOIL CONDITION			SHADE TOLERANCE	CLOSE MOWING TO 2-3 1/2 INCHES	TRAMPING TOLERANCE	FERTILITY NEEDS	WINTER HARDINESS	FLOODING TOLERANCE (DAYS)	MATURE HEIGHT (INCHES)	EMERGENCE TIME (DAYS)	SOIL TOLERANCE		
	WET	NORM	DRY									GEN.	SOIL	SPRAY
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20-25	12-18	7-21			S
KENTUCKY BLUEGRASS POA PROTINSIS	2	1	2	1	1	1	MED.	1	20-35	12-18	10-20			MT
TALL FESCUE FESTUCA L. ARUNDINACEA	2	1	1	1	1	1	LOW	1	24-35	24-36	5-14		T	
PERENNIAL RYEGRASS LOLLUM PERENNE	2	1	2	–	1	2	MED, HIGH	2	15-20	12-18	5-10		MT	
CROWNVETCH CORONILLA VARLA	–	1	1	2	–	–	LOW	1	5-10	24	14-21	T		
RED CLOVER TRIFOLIUM PROTENSE	–	1	–	2	–	–	MED.	1	7-10	18	5-10	S	S	

RANKING:
1 GOOD
2 MEDIUM
– NOT TOLERANT

SALT TOLERANCE (TO BOTH SOIL SALTS & SPRAY)
T TOLERANCE
MT MEDIUM TOLERANCE
S SLIGHT TOLERANCE

SEED TOLERANCE

SEEDBED PREPARATION

APPLY LIME TO RAISE THE pH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 POUNDS OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1000 SQ. FT. (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST. APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.

WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2-3 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.

SEEDING

SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA (SEE PERMANENT SEED MIXTURE CHART). WHILE CONSIDERING BEST SEEDING DATES. IF PERMANENT SEEDING IS NOT PERMITTED USE TEMPORARY SEEDING UNTIL PERMANENT SEEDING CAN BE APPLIED. IF TOLERANCES ARE A PROBLEM, SUCH AS SALT TOLERANCE OF SEEDINGS ADJACENT TO STREETS AND HIGHWAYS, SEE SEED TOLERANCE CHART.

TEMPORARY SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WHEAT OR RYE										NON-IRRIGATED*		
OATS											IRRIGATED	
ANNUAL RYEGRASS											DORMANT SEEDING **	

PERMANENT SEEDING DATES

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** INCREASE SEEDING APPLICATION BY 50%.

SEED TOLERANCE CHART

SPECIES	SEEDING RATE		SUITABLE pH	SITE SUITABILITY *		
	LBS/ACRE	LBS/1000 SQ. FT.		DROUGHTY	WELL DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS						
1. TALL FESCUE	35	.8	5.5-8.3	2	1	2
2. TALL FESCUE	25	.6	5.5-8.3		1	
RED CLOVER	5	.12				
3. KENTUCKY BLUEGRASS	15	.4	5.8-7.5	2	1	
CREEPING RED FESCUE	15	.4				
STEEP BANKS AND CUTS						
4. TALL FESCUE	15	.4	5.8-7.5	2	1	2
KENTUCKY BLUEGRASS	25	.6				
5. TALL FESCUE	35	.8	5.5-8.3	2	1	
EMERALD CROWNVETCH**	10	.25				
LAWNS AND HIGH MAINTENANCE AREAS						
6. KENTUCKY BLUEGRASS	40	.9	5.8-7.5	2	1	
CREEPING RED FESCUE	40	.9				
7. PERENNIAL RYEGRASS	170	4.0	5.0-7.5		1	
(TURF TYPE)						
8. TALL FESCUE	170	4.0	5.5-8.3	2	1	2

* 1 – PREFERRED 2 – WILL TOLERATE ** INOCULATE WITH SPECIFIC INOCULANT.

TEMPORARY SEEDINGS

TYPE OF SEED	1000 SQ. FT. ACRE		REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LB.	COVER SEED 1/4" DEEP

* NOT NECESSARY WHERE MULCH IS APPLIED.

SEEDING DETAIL 06 C4.1

MAIN STREET CONSULTING COMPANY
675 North Main Street PH: 317.459.4765
Franklin, IN 46131 ott@mainstreetconsulting.com
www.mainstreetconsulting.com

BRADLEY R. OTT
REGISTERED
№ PE0200097
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

SWPPP DETAILS

Chart Lifecycle, Inc.

1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C4.1-SWPPP.DWG
DATE: 04.21.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: ~

SWPPP

SHEET NO.:
C4.1

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (Section A)

A1 INDEX SHOWING LOCATIONS OF REQUIRED PLAN ELEMENTS
SEE PLAN SHEET C0.0

A2 11"X17" PLAT OF BUILDING LOT NUMBERS/BOUNDARIES AND ROADS
PROVIDED SEPARATELY

A3 NATURE AND PURPOSE OF PROJECT
IG, CHART LIFECYCLE, INC (ADD EXTERIOR GRAVEL STORAGE AREAS)

A4 PROJECT SITE VICINITY MAP
SEE TITLE SHEET C0.0

A5 LEGAL DESCRIPTION OF PROJECT SITE
LATITUDE/LONGITUDE: 39°29'59.83"N / 86°03'14.77"W
FOR LEGAL DESCRIPTION, SEE SHEET C0.0

A6 LOTS AND PROPOSED SITE IMPROVEMENTS
SEE SITE PLAN SHEET C2.0

A7 HYDROLOGIC UNIT CODE (14 DIGIT)
HYDROLOGIC UNIT CODE: 05120204090010

A8 STATE OR FEDERAL WATER QUALITY PERMITS
CONSTRUCTION IN A FLOODWAY (IDNR): N/A
401 WATER QUALITY CERTIFICATION (IDEM): N/A
SECTION 404 PERMIT (USACOE): N/A

A9 POINTS OF STORMWATER DISCHARGE FROM SITE
STORMWATER IS MAINTAINED TO CONTINUE EXISTING PATTERNS WHICH DRAIN INTO THE EXISTING DETENTION FACILITY AT THE SOUTHEAST SIDE OF THE SITE.

A10 ADJACENT WETLANDS, LAKES AND WATER COURSES
N/A

A11 RECEIVING WATERS
HURRICANE CREEK

A12 POTENTIAL DISCHARGES TO GROUND WATER
NONE KNOWN

A13 FLOODPLAINS, FLOODWAYS AND FLOODWAY FRINGES
NONE KNOWN

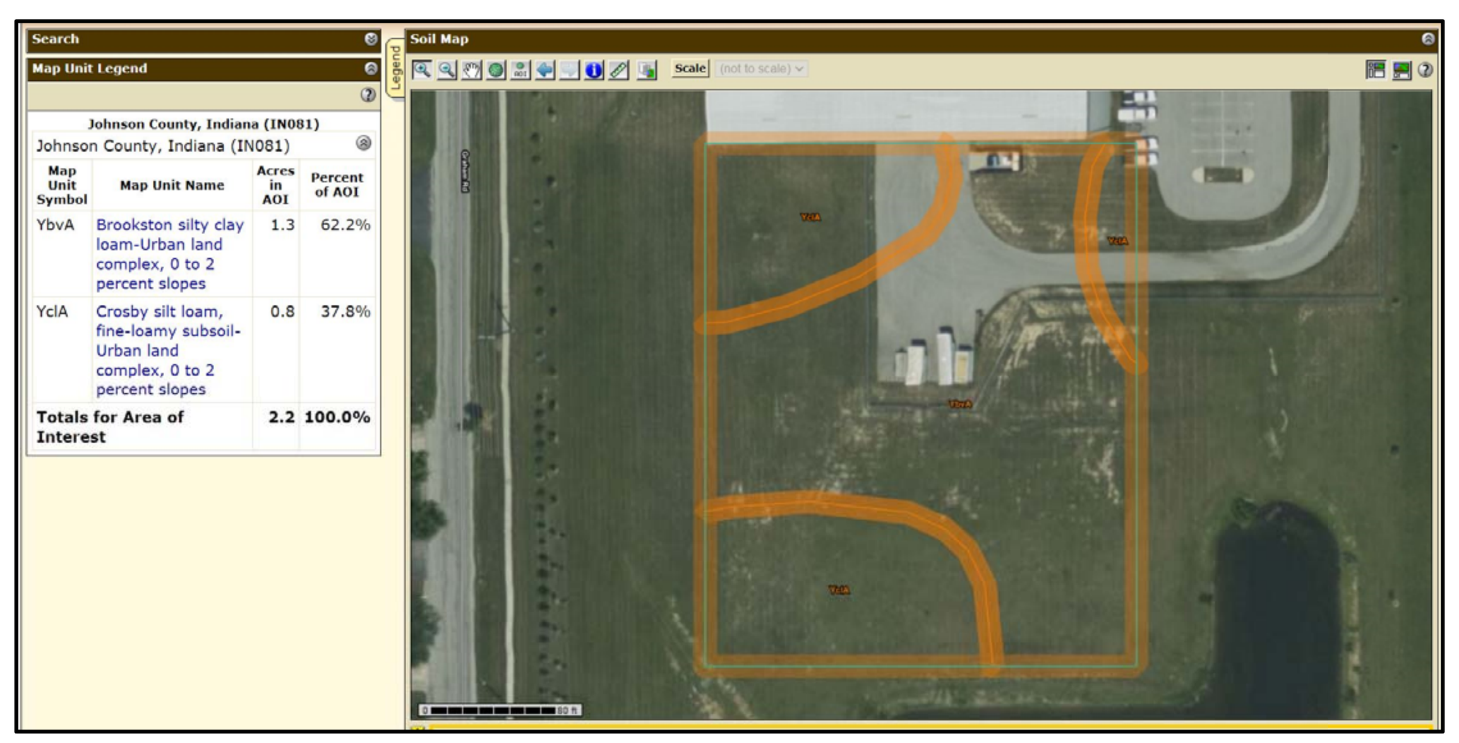
A14 PRE-CONSTRUCTION/POST-CONSTRUCTION PEAK DISCHARGE
PEAK DISCHARGE (ALLOWABLE) 100-YEAR: 3.34 CFS
PEAK DISCHARGE (POST-CONSTRUCTION) 100-YEAR: 2.18~2.62 CFS

A15 ADJACENT LAND USE
NORTH – INDUSTRIAL
SOUTH – INDUSTRIAL
EAST – INDUSTRIAL
WEST – CHURCH / RESIDENTIAL

A16 CONSTRUCTION LIMITS
SEE EROSION CONTROL PLAN SHEET C4.0

A17 EXISTING VEGETATIVE COVER
THE SITE IS CURRENTLY A VACANT GRASSY SITE.
.
.

A18 SOILS MAP AND SOIL DESCRIPTIONS
EXISTING SOIL TYPES & DESCRIPTION



A19 PROPOSED STORMWATER SYSTEMS
.
.
NO NEW SYSTEMS WILL BE INSTALLED

A20 OFF-SITE CONSTRUCTION ACTIVITIES
N/A

A21 PROPOSED SOIL STOCKPILES
SEE EROSION CONTROL PLAN SHEET C4.0 FOR LOCATION(S)

A22 SITE TOPOGRAPHY
SEE GRADING PLAN SHEET C2.0

A23 FINAL SITE TOPOGRAPHY
SEE GRADING PLAN SHEET C2.0

EROSION CONTROL PLAN - CONSTRUCTION COMPONENT (Section B)

B1 POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
THE MATERIALS AND SUBSTANCES LISTED BELOW ARE EXPECTED ON-SITE

- PAINTS, THINNERS AND SOLVENTS
  ENSURE THAT CONTAINERS HAVE LIDS SO THAT THEY CAN BE COVERED BEFORE PERIODS OF RAIN, AND KEEP CONTAINERS IN DRY, COVERED AREA WHENEVER POSSIBLE.
- BATTERIES
  STORE ONSITE IN DRY COVERED AREA AND DISPOSE OF PER MANUFACTURER'S RECOMMENDATIONS IN CONJUNCTION WITH STATE, LOCAL AND FEDERAL REGULATIONS
- AEROSOL SPRAY PRODUCTS
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- ADHESIVES
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- BIOLOGICAL SOLID WASTE
  TRAP IN CONTAINERS, CLEANED REGULARLY, AND DISPOSED OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY. SCHEDULE WASTE COLLECTION MORE FREQUENTLY TO PREVENT CONTAINERS FROM OVERFILLING. UNTREATED, RAW SEWAGE OR SEPTAGE SHOULD NEVER BE DISCHARGED OR BURIED ONSITE.

B1 POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
(continued from previous column)

- REGULATED PCB MATERIAL
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- MOTOR OIL
  STORE PETROLEUM PRODUCTS FOR VEHICLES IN COVERED AREAS WITH LEAK-PROOF HEAVY DUTY PLASTIC LINER ON THE GROUND WITH DIKES IN PLACE TO CONTAIN AND SPILLS. IMMEDIATELY CONTAIN AND CLEAN UP ANY SPILLS WITH ABSORBENT MATERIALS. MOTOR OIL SHOULD BE CHANGED IN A DESIGNATED AREA WITH A METAL CATCH PAN OF 4'X4'X8" MIN. AND PROPERLY DISPOSED OF.
- ANTIFREEZE
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- FUEL
  STORE FUEL FOR VEHICLES IN COVERED AREAS WITH LEAK-PROOF HEAVY DUTY PLASTIC ON THE GROUND WITH DIKES IN PLACE TO CONTAIN AND SPILLS. IMMEDIATELY CONTAIN AND CLEAN UP ANY SPILLS WITH ABSORBENT MATERIALS.
- BRAKE FLUIDS
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- HYDRAULIC FLUIDS
  STORE IN APPROVED CONTAINERS, AND DISPOSE OF ACCORDING TO LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS OR OTHER PUBLIC AGENCY.
- RUBBLE-ASPHALT/CONCRETE
  DISPOSE OF IN PROPER CONTAINERS AND RECYCLE PER LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.
- LAND CLEARING DEBRIS
  RECYCLE APPROPRIATELY IN APPROPRIATELY MARKED CONTAINERS AND SCHEDULE REGULAR PICKUP BEFORE OVERFILLING OCCURS.
- WASTE
  ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED APPROVED CONTAINER. ALL TRASH AND NON-RECYCLABLE MATERIALS SHALL BE DEPOSITED IN THE DUMPSTER DAILY. THE DUMPSTER SHOULD EMPTIED PERIODICALLY AND NOT ALLOWED TO OVERFILL. DO NOT THROW TRASH ON GROUND OR BURY MATERIALS ON SITE.
- UNUSED BUILDING MATERIALS
  ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED APPROVED CONTAINER. ALL RECYCLABLE MATERIALS SHALL BE DEPOSITED IN THE DUMPSTER DAILY. THE DUMPSTER SHOULD EMPTIED PERIODICALLY AND NOT ALLOWED TO OVERFILL. DO NOT BURY MATERIALS ON SITE.
- CONCRETE (MASONRY) WASHOUT
  CONCRETE WASHOUT AREAS SHOULD A BERMED, SELF CONTAINED AREA APPROXIMATELY 10'X10'X3' IN PLACE TO CONTAIN THE CONCRETE, BUT ALLOW THE WATER TO INFILTRATE THE GROUND. DRIED MATERIAL SHALL BE REMOVED AND DISPOSED OF PROPERLY. THE CONCRETE WASHOUT AREA SHALL BE LOCATED IN AN AREA WHERE FUTURE PAVEMENT WILL BE INSTALLED, BUT AWAY FROM STORMWATER STRUCTURES AND WATER BODIES. SEE DETAIL.
- FERTILIZERS/PESTICIDES/DETERGENTS
  FERTILIZERS AND PESTICIDES WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TIME TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAG OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. THE ORIGINAL LABEL AND SAFETY INFORMATION WILL BE RETAINED. STORAGE AREAS SHALL BE BERMED TO CONTAIN SPILL FROM RUNNING INTO GROUNDWATER OR STORM SYSTEM.

B2 SEQUENCE OF EROSION CONTROL MEASURES IMPLEMENTATION
INITIAL SETUP (* SEE SHEET C4.4 FOR JOHNSON COUNTY SPECIFIC TABLE)

- NOTIFY JOHNSON COUNTY DEPARTMENT OF P&Z FOR A PRECONSTRUCTION MEETING 48 HOURS IN ADVANCE OF START OF CONSTRUCTION
- NOTIFY IDEM PER RULE 5 NOI 48 HOURS PRIOR TO START OF CONSTRUCTION
- CALL FOR AN UNDERGROUND LOCATE TO VERIFY LOCATION OF EXISTING UTILITIES.
- FLAG OR DENOTE ALL CONSTRUCTION LIMITS.
- POST A NOTICE OF PROJECT IN PUBLICLY ACCESSIBLE LOCATION NEAR PROJECT FIELD OFFICE, TO INCLUDE A COPY OF COMPLETED NOI LETTER, NPDES PERMIT NUMBER (IF AVAILABLE), AND NAME, COMPANY NAME, AND CONTACT PERSON TELEPHONE NUMBER.
- INFORM ALL GENERAL CONTRACTORS, CONSTRUCTION MANAGEMENT FIRMS, GRADING OR EXCAVATING CONTRACTORS, AND ALL OTHER CONTRACTORS WITH PRIMARY OVERSIGHT ON INDIVIDUAL BUILDING LOTS OF THE TERMS AND CONDITIONS OF THE STORM WATER RULE 5, AND THE CONDITIONS AND STANDARDS OF THIS EROSION CONTROL PLAN, SCHEDULE FOR IMPLEMENTATION, AND THE CONSTRUCTION SITE EROSION CONTROL PLAN REPORT.
- INSTALL PERIMETER SILT FENCE.
- AFTER THE PERIMETER PRACTICES ARE INSTALLED, A MEETING WITH JOHNSON COUNTY IS REQUIRED BEFORE ADDITIONAL CONSTRUCTION PROCEEDS
- BEGIN TOPSOIL REMOVAL TO STOCKPILE AREA AND ROUGH GRADE.
- BEGIN SEEDING AND MULCHING PROGRAM (TEMPORARY SEED ALL DISTURBED AREAS).
- IMPLEMENT SELF-MONITORING PROGRAM.
- INSTALL ADDITIONAL SILT FENCES OR OTHER SUCH MECHANISM AS REQUIRED.

CONSTRUCTION SEQUENCE

1. TEMPORARY OR PERMANENT SEED SITE PERIMETER.
2. BEGIN CONSTRUCTION OF STORMWATER SYSTEM AND DETENTION FACILITY THEN PROCEED WITH THE INSTALLATION OF EROSION CONTROL BLANKET AS INDICATED ON SHEET C4.0.
3. INSTALL PROPOSED STORMWATER QUALITY TREATMENT UNITS.
4. INSTALL RIPRAP PROTECTION FOR END SECTIONS AT PROPOSED DETENTION FACILITY.
5. INSTALL STORM AND OTHER UTILITIES. BEGIN ON OUTLET AND DOWNSTREAM STORM SEWERS ON THE EAST SIDE OF THE SITE, THEN PROCEED ONTO WEST THROUGH THE SITE.
6. INSTALL DANDY BAG INLET PROTECTION AS STORM INLETS ARE COMPLETED.
7. START BUILDING CONSTRUCTION.
8. ROUGH GRADE PARKING LOT AND ISLAND AREAS.
9. COMPLETE BUILDING.
10. FINAL GRADE, PERMANENT SEED, AND LANDSCAPE.
11. ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED, THE CONTRACTOR WILL REMOVE ANY SEDIMENT FROM THE POND AND STABILIZE ANY DISTURBED AREAS OF THE POND.

EROSION CONTROL IMPLEMENTATION NOTES

UPON COMPLETION OF THE INITIAL SITE INSPECTION AND BEFORE ANY VEGETATION IS REMOVED FROM THE SITE, THE EROSION CONTROL PLAN SHALL BE IMPLEMENTED. THE PLAN SHALL BE CONTINUALLY MAINTAINED AND UPDATED AS NEEDED.

ALL EROSION CONTROL PRACTICES WILL BE INSTALLED UNDER THE GUIDANCE OF A PROFESSIONAL EXPERIENCED IN EROSION CONTROL. ALL OTHER NON-ENGINEERED EROSION CONTROL MEASURES INVOLVING VEGETATION WILL BE INSTALLED ACCORDING TO THE SPECIFICATIONS AND CRITERIA AS SET FORTH IN THE EROSION CONTROL PLAN.

IDENTIFY AND PROTECT ALL EXISTING VEGETATION DESIGNATED TO REMAIN.

RETAIN EXISTING VEGETATION WHEREVER POSSIBLE

ALL STOCKPILED TOPSOIL TO BE SALVAGED SHALL BE PERIMETER PROTECTED. RUNOFF FROM STOCKPILES WILL BE FILTERED THROUGH SILT FENCES AND THE SEDIMENT BASIN. STOCKPILES SHALL NOT INTERFERE WITH NATURAL DRAINAGE. THE STOCKPILES SHALL BE REDISTRIBUTED OVER THE SITE AND FINAL GRADED IMMEDIATELY PRIOR TO SEEDING.

LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.

THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.

SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.

WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.

SEDIMENT BEING TRACED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.

SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.

IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.

ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.

ALL AREAS WHICH CAN BE REGRADED TO A FINAL STATE SHALL BE REVEGETATED WITH AN APPROVED SEED MIXTURE AND FERTILIZED AT THE RATES INDICATED AS PER THE SEED CHART (SHEET C4.1).

B3 CONSTRUCTION ENTRANCE LOCATION
SEE SHEET C4.0 FOR LOCATIONS; SEE SHEET C4.1 FOR DETAILS.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS
SILT FENCE, TEMPORARY AND PERMANENT SEEDING; SEE EROSION CONTROL PLAN SHEET C4.0 FOR LOCATIONS; SEE SHEET C4.1 FOR DETAILS.

B5 CONTROL MEASURES FOR CONCENTRATED FLOW AREAS
RIP RAP; SEE SHEET C4.0 FOR LOCATIONS; SEE C4.1 & C4.4 FOR DETAILS.

B6 INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS
DANDYBAG INLET PROTECTION SEE SHEET C4.0 FOR LOCATIONS; DETAILS ON SHEET C4.1

B7 RUNOFF CONTROL MEASURES
SILT FENCE: SEE PLAN SHEET C4.0; DETAILS SHEET C4.1 & C4.4

B8 STORM WATER OUTLET PROTECTION SPECIFICATIONS
RIP RAP AND EROSION CONTROL MAT; SEE SHEET C4.0 FOR LOCATIONS AND SHEET C4.1 FOR DETAILS.

B9 GRADE STABILIZATION STRUCTURES
SEEDING AND EROSION CONTROL MAT; SEE SHEET C4.0 FOR LOCATIONS AND SHEET C4.1 FOR DETAILS.

B10 CONSTRUCTION DETAILS FOR STORMWATER MEASURES
SEE EROSION CONTROL PLAN SHEET C4.0 FOR LOCATIONS AND SHEET C4.1 FOR DETAILS.
(SILT FENCE TO BE NWSF-6 NON-WOVEN FABRIC OR AN APPROVED EQUAL.)

B11 TEMPORARY SURFACE STABILIZATION METHODS

1. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
2. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
4. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
5. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
6. SEDIMENT BEING TRACED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
7. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND REDISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
8. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON-SITE.
9. SCHEDULE OF EARTHWORK ACTIVITIES:
   a) THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
   b) PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
   c) TEMPORARY SEEDING SHALL UTILIZE SEED SPECIES, APPLICATION RATES, AND DATES SET FORTH IN THE CHARTS ON SHEET C4.1.

B12 PERMANENT SURFACE STABILIZATION METHODS

1. AT THE PROPER TIME, WITH APPROVAL FROM THE OWNER, AND ONLY AFTER NOTIFYING JOHNSON COUNTY, THE CONTRACTOR SHALL DISMANTLE THE REMAINING EROSION CONTROL ELEMENTS ONLY AS REQUIRED TO FINISH ALL GRADING. CONTRACTOR SHALL NOTIFY THE CITY OF GREENWOOD IN ADVANCE AND ARRANGE FOR THE LANDSCAPING CONTRACTOR TO FOLLOW UP IMMEDIATELY WITH REVEGETATION OF THE REMAINING AREAS.
2. CONTRACTOR SHALL REMOVE ANY UNSUITABLE MATERIAL FROM THE SITE LEFT FROM THE EROSION CONTROL MEASURES.
3. ANY BARE DISTURBED AREAS WILL BE GRADED, SEEDED AND MULCHED OR OTHERWISE REVEGETATED OR STABILIZED, AS PER THE EROSION CONTRL PLAN. PERMANENT SEEDING WILL BE ACCORDING TO THE SEED SPECIES, RATES AND DATES SHOWN IN THE CHARTS ON SHEET C4.1.
4. FINAL STABILIZATION WILL BE CONSIDERED ACHIEVED WHEN PERENNIAL VEGETATIVE COVER HAS A DENSITY OF SEVENTY PERCENT (70%) ON ALL UNPAVED AREAS OR AN EQUIVALENT PERMANENT STABILIZATION MEASURE HAS BEEN UTILIZED. IMPLEMENTATION AND MAINTENANCE WILL BE ACCORDING TO SECTIONS C2 AND C5 BELOW.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN

1. THE PROPER MANAGEMENT AND DISPOSAL OF WASTES SHOULD BE PRACTICED ON SITE AT ALL TIMES TO REDUCE POLLUTION STORM WATER RUNOFF. HAZARDOUS WASTE SHOULD ALWAYS BE DISPOSED OF THROUGHA DESIGNATED HAZARDOUS WASTE MANAGEMENT OR RECYCLING FACILITY. HAZARDOUS WASTE SHOULD NOT BE DISPOSED OF WITH ORDINARY GARBAGE, OR POURED INTO THE SANITARY SEWER SYSTEM OR ONTO THE GROUND.
2. DESIGNATE A WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY INTO A WATER BODY.
3. KEEP PRODUCTS IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE, THEN ORIGINAL LABEL AND MATERIAL SAFETY DATA WILL BE RETAINED. IF A PRODUCT DOES NOT HAVE ITS ORIGINAL LABEL, LABEL IT YOURSELF IF YOU ARE SURE OF CONTENTS. MAKE SURE PRODUCTS ARE PROPERLY SEALED TO PREVENT LEAKS AND SPILLS AND STORED IN A WEATHER PROOF SELF CONTAINED AREA AWAY FROM HEAT, SPARKS AND FLAMES.
4. A PROGRAM FOR RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE SHALL BE ESTABLISHED. ALL RECYCLING CONTAINERS WILL BE CLEARLY LABELED.
5. ALL CONSTRUCTION ACTIVITIES TO BE MONITORED AND MAINTAINED BY THE CONTRACTOR. AS EACH NEW SUB-CONTRACTOR COMES ON-SITE, THE CONTRACTOR WILL CONDUCT AND DOCUMENT A MEETING TO ENSURE AWARENESS OF THE POLLUTANT PREVENTION PROGRAM. GUIDELINES FOR PROPER HANDLING, STORAGE AND DISPOSAL OF CONSTRUCTION SITE WASTES SHOULD BE POSTED IN STORAGE AND USE AREAS AND WORKERS SHOULD BE TRAINED IN THESE PRACTICES TO ENSURE EVERYONE IS KNOWLEDGEABLE ENOUGH TO PARTICIPATE.
6. IN AN EMERGENCY, THE CONTRACTOR WILL CALL 911. IN THE EVENT OF A SPILL THAT POSES NO IMMEDIATE THREAT, THE CONTRACTOR WILL CONTACT THE LOCAL FIRE DEPARTMENT AT (317)776-6336 AND IDEM EMERGENCY RESPONSE AT (888) 233-7745 WITHIN 24 HOURS OF THE SPILL. EMERGENCY PHONE NUMBERS AND PROCEDURES SHALL BE PROMINATELY DISPLAYED AT THE WORK SITE WHERE SPILLS MAY OCCUR, SUCH AS STAGING/REFUELING AREAS.
7. CLEAN UP SPILLS IMMEDIATELY. FOR HAZARDOUS MATERIALS FOLLOW CLEANUP INSTRUCTIONS ON THE PACKAGE. USE ABSORBENT MATERIAL SUCH AS SAWDUST OR KITTY LITTER TO CONTAIN THE SPILL. PROPER SAFETY MATERIALS SHOULD BE STORED ON SITE IN CASE OF ACCIDENT OR SPILL WHICH SHOULD INCLUDE BUT NOT LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THAT PURPOSE. SPILL AREAS SHOULD BE WELL VENTILATED.
8. DURING THE DEMOLITION PHASE OF CONSTRUCTION, PROVIDE EXTRA CONTAINERS AND SCHEDULE MORE FREQUENT PICKUPS FOR RECYCLABLES AND GARBAGE. COLLECT, REMOVE, AND DISPOSE OR ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL AREAS. CONTACT LOCAL ENVIRONMENTAL AGENCY TO IDENTIFY DISPOSAL SITES OR AUTHORIZED CONTRACTORS.
9. CONSTRUCTION VEHICLES SHOULD BE INSPECTED FOR LEAKS DAILY AND REPAIRED IMMEDIATELY IN A SELF CONTAINED AREA DESIGNATED FOR VEHICLE MAINTENANCE AND REPAIR. THE VEHICLE MAINTENANCE AREA SHOULD BE CONDUCTED ON AN AREA THAT IS TO BECOME FUTURE PAVEMENT. THIS AREA WILL BE DESIGNED TO MINIMIZE CONTACT BETWEEN EQUIPMENT ACTIVITIES AND RAINFALL OR RUNOFF. SPILLS MUST BE CLEANED UP AND MATERIALS DISPOSED OF IMMEDIATELY.
10. CONTAINERS OR EQUIPMENT THAT MAY MALFUNCTION AND CAUSE LEAKS OR SPILLS SHOULD BE IDENTIFIED THROUGH REGULAR INSPECTION AND STORAGE OF USE AREAS. EQUIPMENT AND CONTAINERS SHOULD BE INSPECTED REGULARLY FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR ANY OTHER SIGNS OF DETERIORATION AND SHOULD BE TESTED FOR SOUNDNESS. ANY FOUND TO BE DEFECTIVE SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.

B14 MONITORING AND MAINTENANCE GUIDELINES
A TRAINED INDIVIDUAL SHALL PERFORM A WRITTEN EVALUATION OF THE PROJECT SITE:
- BY THE END OF THE NEXT BUSINESS DAY FOLLOWING EACH 1/2 STORM EVENT; AND
- A MINIMUM OF ONE (1) TIME PER WEEK.

THE EVALUATION WILL:
- ADDRESS THE MAINTENANCE OF EXISTING EROSION CONTROL MEASURES TO ENSURE PROPER FUNCTIONING; AND
- IDENTIFY ANY ADDITIONAL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE EROSION CONTROL PLAN.

WRITTEN EVALUATION REPORTS INCLUDE:
- THE NAME OF THE INDIVIDUAL PERFORMING THE EVALUATION;
- THE DATE OF THE EVALUATION;
- PROBLEMS IDENTIFIED AT THE PROJECT SITE; AND
- DETAILS OR CORRECTIVE ACTIONS RECOMMENDED AND COMPLETED.

ALL WRITTEN EVALUATION REPORTS FOR THE PROJECT SITE WILL BE MAINTAINED BY THE CONSTRUCTION SUPERINTENDENT THROUGHOUT THE TERM OF THE PROJECT CONSTRUCTION AND MADE AVAILABLE TO THE TOWN OF FISHERS OR OTHER INSPECTING AUTHORITY WITHIN 48 HOURS OF A REQUEST.

MAINTENANCE OF SPECIFIC EROSION CONTROL MEASURES SHALL BE ACCORDING TO THE FOLLOWING:

SEEDING OF DISTURBED AREAS

1. DISTURBED AREAS WILL BE SEEDED AND MULCHED FOR TEMPORARY OR PERMANENT STABILIZATION AS PHASES OF THE PROJECT CONSTRUCTION ARE COMPLETED.
2. UN-VEGETATED AREAS SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FIFTEEN (15) DAYS OR MORE WILL BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL.
3. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED.

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

STORM WATER BASIN MAINTENANCE REQUIREMENTS

1. INSPECT THE STORM WATER BASIN AFTER EACH STORM EVENT. IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.
2. THE NECESSITY FOR SEDIMENT REMOVAL WILL BE DETERMINED AFTER EACH EVENT.
3. REPLACE/REPAIR OUTLET RIPRAP AS REQUIRED AFTER EACH EVENT.
4. INSPECT VEGETATION, AND RE-SEED IF NECESSARY.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS

1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
2. IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
3. AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY AND MAINTAIN AS PER CHART UNDER SECTION C2 SHEET 4.1 FOR DRY SWALE.

B15 EROISION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS
SEE DETAIL SHEET C4.1

EROSION CONTROL PLAN POST-CONSTRUCTION COMPONENT (Section C)

C1 POTENTIAL POLLUTANT SOURCES FROM PROPOSED LAND USE

THE GREATEST AMOUNT OF POST CONSTRUCTION POLLUTANTS EXPECTED FROM THIS PROJECT WILL COME FROM THE VEHICLES THAT UTILIZE THE SITE. POTENTIAL POLLUTANTS FROM VEHICLES INCLUDE: GREASE, OIL, GASOLINE, DIESEL, ANTIFREEZE, BRAKE FLUID, METALS, RUBBER FRAGMENTS AND OTHER HYDROCARBONS. ALSO SAND AND GRAVEL FROM ROADWAY SURFACES AND ROAD WEATHER TREATMENTS ARE ASSUMED. BACTERIA AND OTHER BIOLOGICAL AGENTS FROM DUMPSTER AREAS AND LITTERING ARE ALSO CONSIDERED POTENTIAL POLLUTANTS.

FINAL LANDSCAPING AND SEEDING WILL BE DONE AFTER FINAL GRADING.

WEEKLY PARKING LOT CLEANING AND DAILY LITTER CLEAN UP WILL BE PERFORMED.

FERTILIZING WILL BE MINIMAL SINCE THERE IS VERY LITTLE TURF ON THE SITE. THE EXTENSIVE LANDSCAPE PLANTINGS WERE CHOSEN FOR THE LOW DEPENDENCY UPON FERTILIZERS AND PESTICIDES. THEY ALSO REQUIRE VERY LITTLE IRRIGATION SO TO MINIMIZE THE FERTILIZER AND PESTICIDE RUNOFF FROM THE SITE.

C2 SEQUENCE OF EROSION CONTROL MEASURES IMPLEMENTATION

- AFTER CONSTRUCTION AND FINAL GRADING, LANDSCAPE AND PERMANENTLY STABILIZE ALL DISTURBED SITES, INCLUDING BORROW AND DISPOSAL AREAS. TEMPORARY FACILITIES SHALL BE REMOVED ONLY AFTER ALL DISTURBED AREAS ARE STABILIZED.
- AQUA-SWIRL UNITS SHALL BE INSTALLED WITH STORM FACILITIES, SEE O&M MANUAL SEPERATE FROM THESE PLANS FOR MAINTENANCE

C3 PROPOSED STORMWATER QUALITY MEASURES

- AQUA-SWIRL UNITS (NOT REQUIRED FOR THIS PROJECT) SHALL BE INSTALLED WITH STORM FACILITIES,
- SEE O&M MANUAL SEPARATE FROM THESE PLANS FOR MAINTENANCE

C4 CONSTRUCTION DETAILS AND SPECIFICATIONS
SEE DETAILS SHEET C4.1

C5 MAINTENANCE GUIDELINES FOR STORMWATER MEASURES
SEE CHART DETAIL SEE SHEET C4.1
ESTIMATED START: JULY 01, 2020
ESTIMATED COMPLETION OF SITE DEVELOPMENT: DECEMBER 31, 2020

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SWPPP NOTES

Chart Lifecycle, Inc.
1725 GRAHAM ROAD, FRANKLIN, IN 46131
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SURFACE STABILIZATION

Mulching

Mulching is the application of plant residues/materials to enhance and protect vegetative establishment and minimize erosion potential.

MULCHING

MULCHING

OUTLET PROTECTION & GRADE STABILIZATION

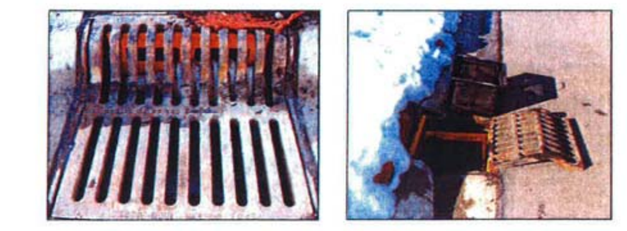
Energy Dissipater (Outlet Protection)

ENERGY DISSIPATER (OUTLET PROTECTION)

ENERGY DISSIPATER (OUTLET PROTECTION)

Permanent CURB & PAVED AREA INLET PROTECTION

Insert (Basket) Curb Inlet Protection



SEDIMENT BARRIERS & FILTERS

Silt Fence

A silt fence is a temporary barrier of entrenched geotextile fabric stretched across and attached to supporting posts and installed on the contour to intercept and treat sediment-laden storm water runoff from small, unvegetated drainage areas.

SILT FENCE

SILT FENCE

SILT FENCE

SURFACE STABILIZATION

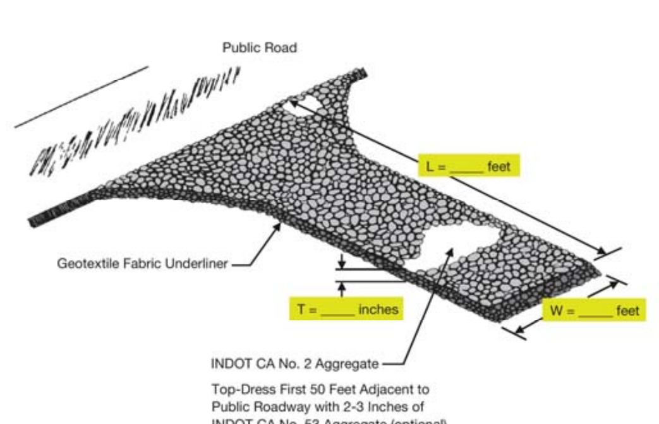
Erosion Control Blanket

EROSION CONTROL BLANKET

INSERT (BASKET) CURB INLET PROTECTION

TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD (LARGE SITES—TWO ACRES OR LARGER)

Temporary Construction Ingress/Egress Pad
Plan View Worksheet
(large sites—two acres or larger)



TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD (LARGE SITES—TWO ACRES OR LARGER)

SURFACE STABILIZATION

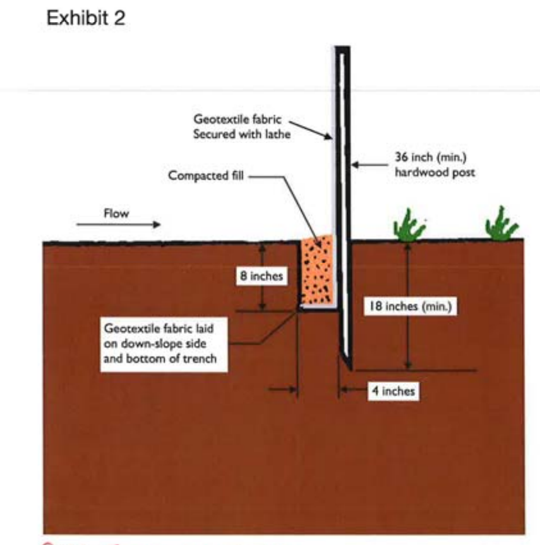
Mulching

MULCHING

MULCHING

SILT FENCE

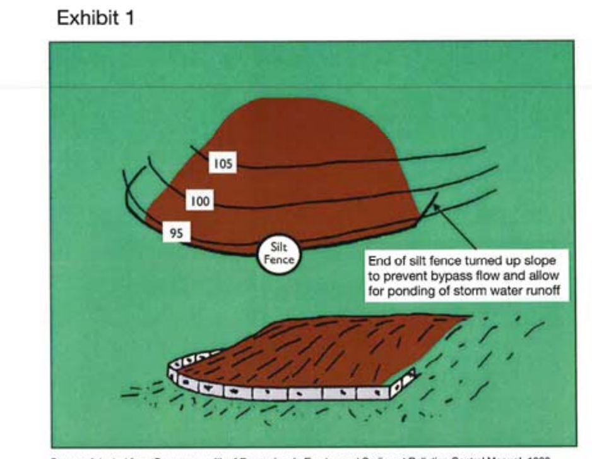
Exhibit 2



Silt Fence must be
NWSF-6
NON-Woven Fabric.
OR
An approved equal.

SILT FENCE

Exhibit 1



Source: Adapted from Commonwealth of Pennsylvania Erosion and Sediment Pollution Control Manual, 1990

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SWPPP SPECIFICATIONS

Chart Lifecycle, Inc.

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FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

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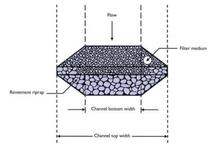
ROCK CHECK DAM

Exhibit 2

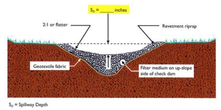


B5 CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

B7 RUNOFF CONTROL MEASURES

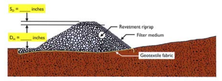
ROCK CHECK DAM

Rock Check Dam Worksheet



D_s = Spillway Depth

NOTE: For minimum dimensions see the "Specifications" section of this measure.



D_c = Dam Height
D_s = Spillway Depth

NOTE: For minimum dimensions see the "Specifications" section of this measure.

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

EROSION CONTROL CONSTRUCTION SEQUENCE SCHEDULING		
CONSTRUCTION PHASE (SPECIFIC ACTIVITIES OR EROSION CONTROL PRACTICES)	CONSTRUCTION SCHEDULE CONSIDERATION	MONITORING AND MAINTENANCE SCHEDULE
PRE-CONSTRUCTION ACTIONS (EVALUATION/PROTECTION OF IMPORTANT SITE CHARACTERISTICS)	BEFORE CONSTRUCTION, EVALUATE, MARK, AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, UNIQUE AREAS (e.g., WETLANDS) TO BE PRESERVED, & VEGETATION SUITABLE FOR FILTER STRIPS, ESPECIALLY IN PERIMETER AREAS. INSTALL SILT FENCE.	ESTABLISH AND EVALUATE PROJECT ASSIGN SUPERINTENDENT/NCOIC WHOM WILL BE IN CHARGE OF OVERSEEING EROSION FACILITIES.
CONSTRUCTION ACCESS* (CONSTRUCTION ENTRANCES, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS)	STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS WORK TAKES PLACE	INSPECT CONSTRUCTION ENTRANCE WEEKLY AND AFTER STORM EVENTS AND HEAVY USEAGE, RESHAPE AND TOP DRESS AS NEEDED INCLUDING REMOVAL OF IMMEDIATE SEDIMENTS BY SWEEPING OR BRUSHING.
SEDIMENT BARRIERS AND TRAPS* (SEDIMENT BASINS, SILT FENCES, OUTLET PROTECTION, FILTER SOCK)	INSTALL PRINCIPLE BASINS AFTER CONSTRUCTION SITE IS ASSESSED. INSTALLED ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING & INSTALL PERIMETER SWALES. (EROSION CONTROL MEASURES)	INSPECT THE SILT FENCE WEEKLY AND AFTER RAIN EVENTS, AND MAKE NEEDED REPAIRS IMMEDIATELY. AVOID DAMAGING OR UNDEROUTTING THE FABRIC DURING SEDIMENT REMOVAL. WHEN THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE AND PROPERLY DISPOSED OF ALL CONSTRUCTION MATERIAL AND SEDIMENT.
RUNOFF CONTROL* (DIVERSIONS, PERIMETER DIKES, WATER BARS, OUTLET PROTECTION)	INSTALL PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS ARE INSTALLED BUT BEFORE SITE GRADING. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING AS NEEDED.	INSPECT THE SEDIMENT BASINS WEEKLY AND AFTER RAIN EVENTS, REMOVE AND PROPERLY DISPOSE OF SEDIMENT WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN VOLUME
RUNOFF CONVEYANCE SYSTEMS (STABILIZED STREAM BANKS, STORM DRAINS, INLET AND OUTLET PROTECTION, CHANNELS)	WHEN NECESSARY INSTALL PRINCIPLE CONVEYING SYSTEM WITH RUNOFF CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.	INSPECT VEGETATION, AND RE-SEED IF NECESSARY.
LAND CLEARING AND GRADING* (CUTTING/FILLING, GRADING DRAINS, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, SURFACE ROUGHENING)	BEGIN MAJOR CLEARING AND GRADING AFTER INSTALLING THE KEY SEDIMENT AND RUNOFF MEASURES. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.	INSPECT NEWLY TOPSOIL AREAS WEEKLY UNTIL VEGETATION IS ESTABLISHED. REPAIR ERODED OR DAMAGED AREAS AND REVEGETATE.
SURFACE STABILIZATION (TEMPORARY AND PERMANENT SEEDING MULCHING, SODDING, RIP-RAP)	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHEN WORK IS DELAYED OR COMPLETED. IF LEFT INACTIVE FOR MORE THAN 15 DAYS, MORE APPROPRIATE MEASURES WILL BE IMPLEMENTED TO STABILIZE THE SITE. INSTALL GEOTEXTILE, GRAVEL & INFRASTRUCTURE FOR LIGHTEN.	INSPECT WEEKLY AND ESPECIALLY AFTER RAIN EVENTS, UNTIL THE TEMPORARY VEGETATION IS SUCCESSFULLY ESTABLISHED. REPAIR DAMAGED, BARE, OR SPARES AREAS BY FILLING ANY GULLIES, OVER-ALL RE-SEEDING, AND MULCHING. IF PLANT COVERAGE IS SPARSE OR PATCHY, REVIEW THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCHING; THEN REPAIR THE AFFECTED AREA EITHER BY OVER-SEEDING OR BY RE-SEEDING AND MULCHING AFTER PREPARING THE SEEDBED IF WASHOUT, OR BREAKAGE, OR EROSION IS PRESENT, REPAIR THE SURFACE, THEN RE-SEED, RE-MULCH AND, IF APPLICABLE, INSTALL NEW NETTING. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING, AND EROSION, ESPECIALLY DOWNSTREAM.
CONSTRUCTION SITE (BUILDING, UTILITIES, GRAVEL, CONCRETE PADS)	INSTALL NECESSARY EROSION AND SEDIMENT CONTROL PRACTICES AS WORK TAKES PLACE. IF LEFT INACTIVE FOR MORE THAN 15 DAYS, MORE APPROPRIATE MEASURES WILL BE IMPLEMENTED TO STABILIZE THE SITE.	DURING VEGETATIVE ESTABLISHMENT, INSPECT WEEKLY AND AFTER RAIN EVENTS FOR ANY EROSION BELOW THE BLANKET OR MULCHING. IF ANY AREAS SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET. AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY.
LANDSCAPING & FINAL STABILIZATION (TOPSOIL, TREES, AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP-RAP) (POST CONSTRUCTION)	STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS. REMOVE TEMPORARY CONTROL MEASURES AND STABILIZE PERMANENT SEED ALL BARE SOIL AREAS. CONVERT SEDIMENT BASINS INTO PERMANENT DETENTION BASINS.	INSPECT WEEKLY AND ESPECIALLY AFTER RAIN EVENTS, UNTIL THE STRAND IS SUCCESSFULLY ESTABLISHED. REPAIRED DAMAGED, BARE, OR SPARSE AREAS FILLING ANY GULLIES, RE-FERTILIZING. IF PLANT COVERAGE IS LESS THAN 70%, REVIEW THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCHING; THEN REPAIR THE AFFECTED AREA EITHER BY OVER-SEEDING OR BY RE-SEEDING AND MULCHING AFTER PREPARING THE SEEDBED IF ADDITIONAL FERTILIZATION IS NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS. MONITOR OUTLET OF SPILLWAY FOR EROSION CONCERNS.

B2 SEQUENCE OF EROSION CONTROL MEASURES IMPLEMENTATION
(JOHNSON COUNTY SPECIFIC TABLE)

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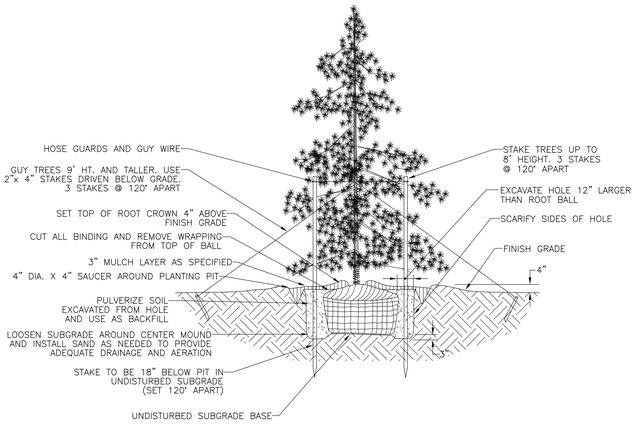
UTILITY STATEMENT:

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

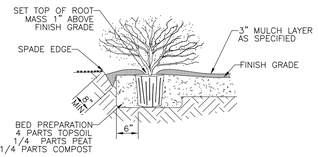
LANDSCAPE NOTES

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUALITY AND QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING AS SHOWN ON DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN ASSOCIATION OF NURSERY STOCK, ANSI Z60.1-1996, OR CURRENT PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED.
5. ALL PLANTS SHALL BE PLANTED SO THAT THE ROOT CROWN IS PLANTED PER DETAIL ON THIS SHEET.
6. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING. ALL TWINE OR ROPE SHALL BE REMOVED FROM AROUND CROWN OF TRUNK TO PREVENT GIRDELING OF TREE.
7. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
8. THE DAY PRIOR TO PLANTING, THE LOCATIONS OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
9. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE.
11. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE PLANT LIST, THE PLANS SHALL TAKE PRECEDENCE.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO THE OWNER.
13. STAKES AND GUY WIRES SHALL BE REMOVED AFTER ONE YEAR.
14. ALL EXISTING LANDSCAPING SHALL BE MAINTAINED DURING CONSTRUCTION. ANY MATERIAL DEEMED DEAD OR UNSATIFACTORY BY LANDSCAPE ARCHITECT WILL BE REPLACED EQUIVALENT IN SIZE AND SHAPE AT NO COST TO THE OWNER.
15. ALL EXISTING LANDSCAPING SHALL BE PRESERVED: NO SOIL STOCKPILING OR STRIPPING, NO EQUIPMENT OR MATERIAL STORAGE SHALL BE ALLOWED. AN ORANGE CONSTRUCTION FENCE SHALL BE CONSTRUCTED TO A DISTANCE OF NO LESS THAN 10 FEET OUTSIDE THE DRIP LINE OF THE EXISTING TREES. CONTACT LANDSCAPE ARCHITECT FOR ADDITIONAL INFORMATION.
16. DECORATIVE SIGNS, SPRINKLER SYSTEMS, TREES, LANDSCAPING MOUNDS, FENCES, LIGHT POLES, OR OTHER SUCH AMENITIES ARE NOT PERMITTED IN THE RIGHT-OF-WAY.
17. ALL BEDS TO HAVE SPADE EDGE.
18. ALL SEEDED/HYROSEEDED TURF AREAS SHAW HAVE WEED FREE STRAW APPLIED TO RETAIN MOISTURE.



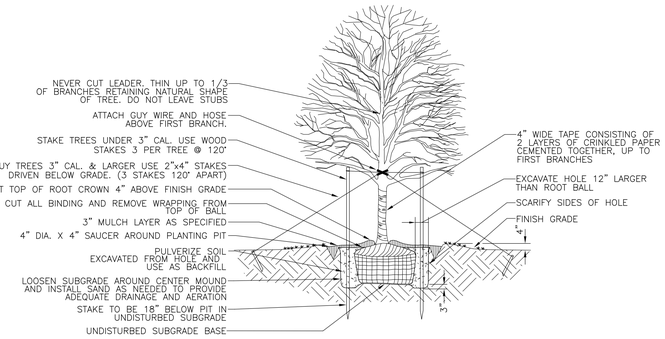
EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



SHRUB AND SMALL TREE PLANTING DETAIL

NOT TO SCALE



SHADE TREE PLANTING DETAIL

NOT TO SCALE

PLANTING SCHEDULE

LEGEND	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE / COND	REMARKS	MATURE HEIGHT / MATURE SPREAD
	TREES						
	AR	0	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	2-1\2" / B & B	Deciduous Canopy	50' / 45'
	GT	0	Gleditsia triacanthos inermis 'Skycole'	Skyline Honeylocust	2-1\2" / B & B	Deciduous Canopy	45' / 45'
	LS	0	Liquidambar styraciflua	Sweetgum	2-1\2" / B & B	Deciduous Native Canopy	50' / 45'
	PA	30	Picea abies	Norway Spruce	6'-7' / B & B	Evergreen Tree	60' / 40'
	SHRUBS						
	EA	0	Euonymus alatus	Burning Bush	36" / B & B	Deciduous Shrub	8'-10' / 8'
	JC	87	Juniperus chinensis 'Sea Green'	Sea Green Juniper	36" / No. 3 cont.	Evergreen Shrub	3' / 5'-6'
	RM	0	Rosa 'Radcon'	Pink Knockout Shrub Rose	18"-24" / No. 3 Cont.	Deciduous Shrub	3' / 3'
	TO	0	Thuja occidentalis 'Woodwardii'	Woodward Arborvitae	24"-36" / No. 5 Cont.	Evergreen Shrub	4' / 4'
	VO	0	Viburnum dentatum 'Christom'	Blue Muffin Viburnum	36" / No. 5 Cont.	Deciduous Shrub	5' / 5'
	GRASSES AND PERENNIALS						
	PA	0	Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	18"-24" / No. 2 Cont.	Ornamental Grass	30" / 24"

SITE DATA

LOT AREA = 11.199± ACRES GROSS
= 11.199± ACRES NET OF R/W

GROSS EXISTING BUILDING AREA = 51,340 SF

ZONING DESIGNATIONS
SITE IG - INDUSTRIAL, GENERAL
NORTH IG - INDUSTRIAL, GENERAL
SOUTH IG - INDUSTRIAL, GENERAL
EAST IG - INDUSTRIAL, GENERAL
WEST IN - INSTITUTIONAL
WEST RSN - RESIDENTIAL SUBURBAN NEIGHBORHOOD

PROPOSED USE: EXPAND OUTSIDE STORAGE CAPACITY ON TOTAL OF 73,150 SF (1.68± AC) GRAVEL STORAGE AREA WITH GEOGRID REINFORCEMENT MATERIAL.

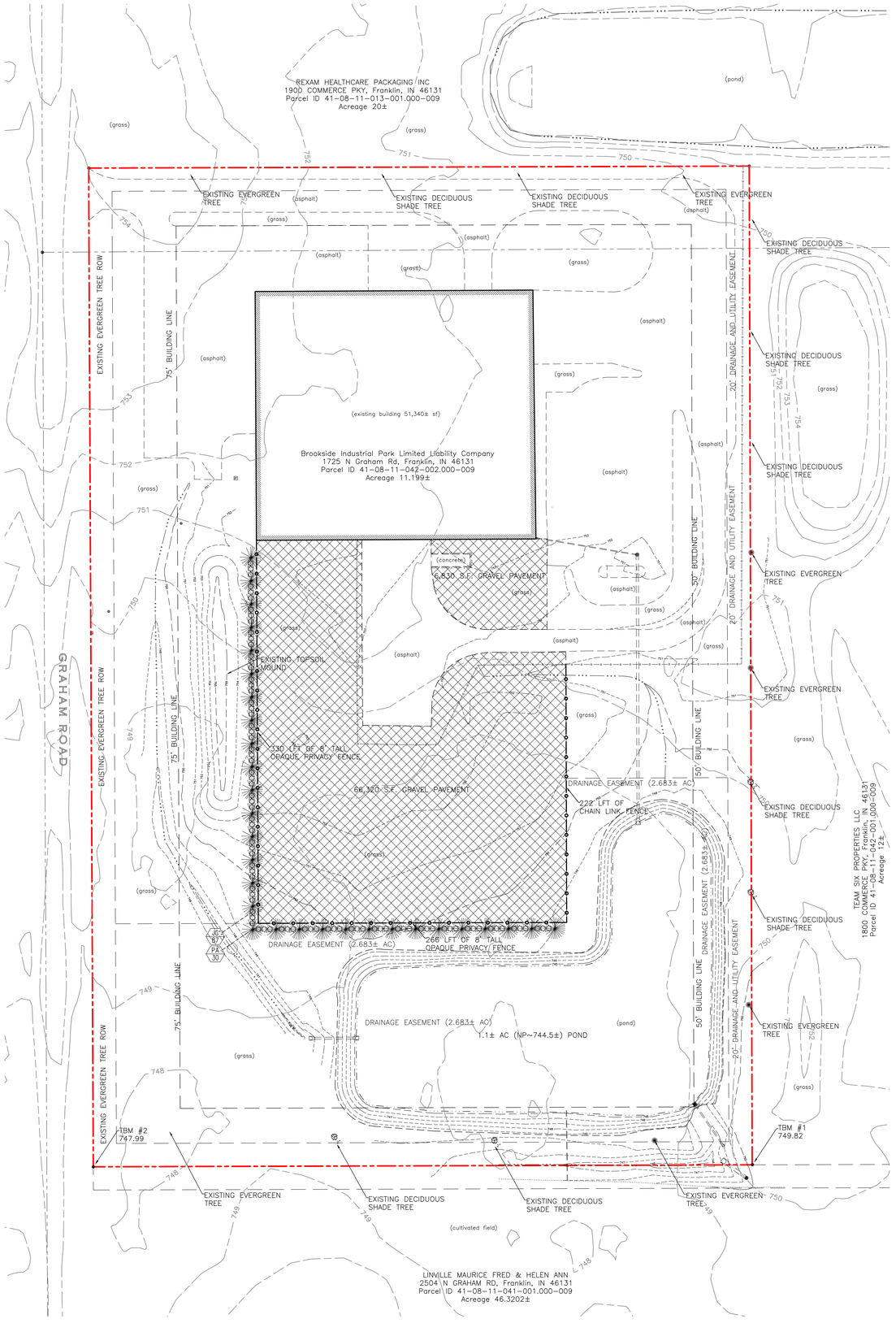
PROPOSED COVENANTS: NONE

FLOOD ZONE DESIGNATION: X (SHADED)

PROPOSED START DATE JULY 1, 2021
PROPOSED END DATE DECEMBER 31, 2021

811 Know what's below. Call before you dig.

50 0 25 50
Scale 1" = 50'



MAIN STREET CONSULTING COMPANY
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REVISIONS

LANDSCAPNG PLAN

Chart Lifecycle, Inc.

1725 GRAHAM ROAD, FRANKLIN, IN 46131
FRANKLIN TOWNSHIP, JOHNSON COUNTY, INDIANA

DRAWING: C8.0-LSP.DWG
DATE: 04.27.2021
PROJ. NO.: 21.002
DRAWN BY: B.OTT
SURVEYED BY: B.OTT
SCALE: 1"=50'

LANDSCAPE

SHEET NO.:
C8.0