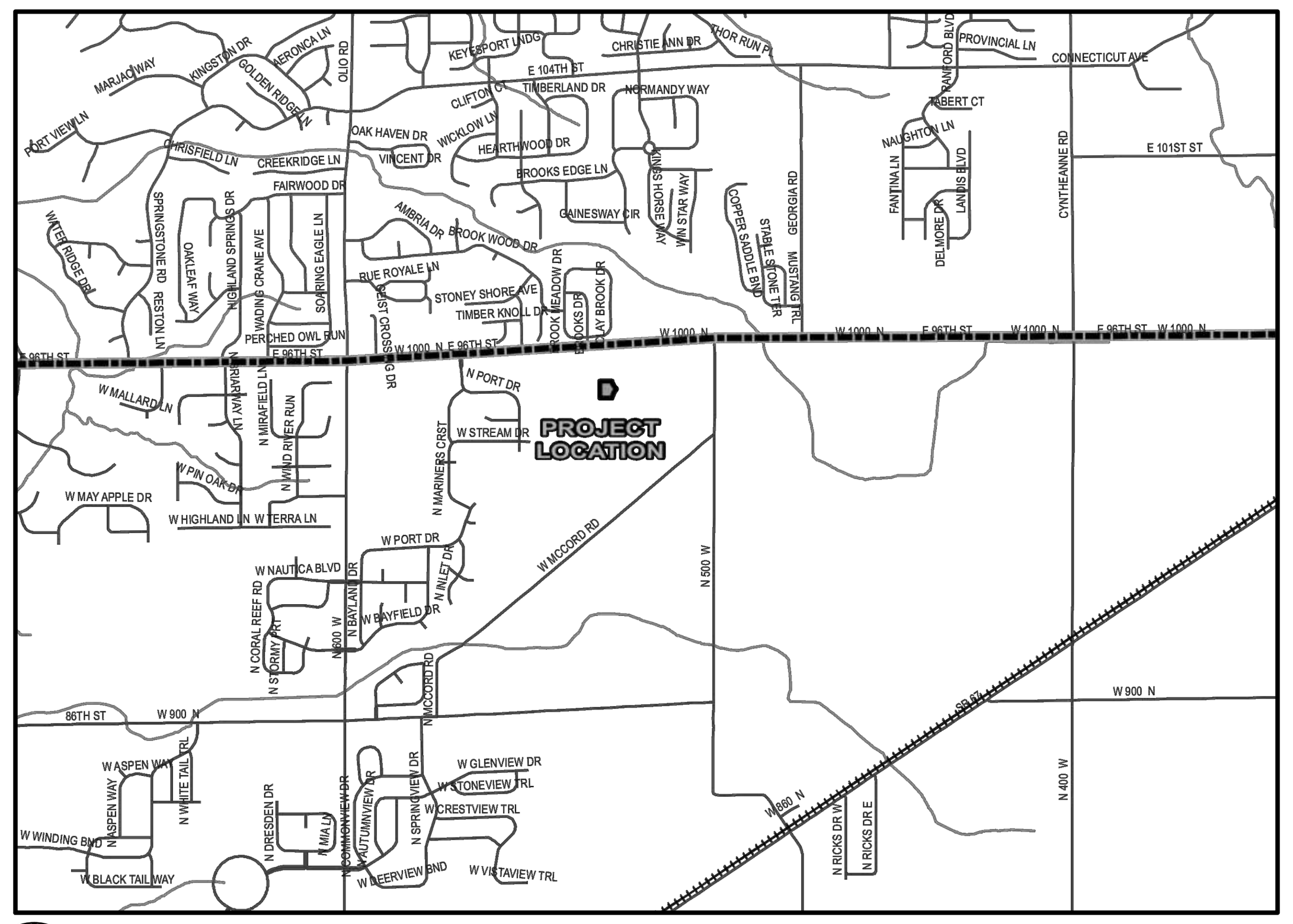
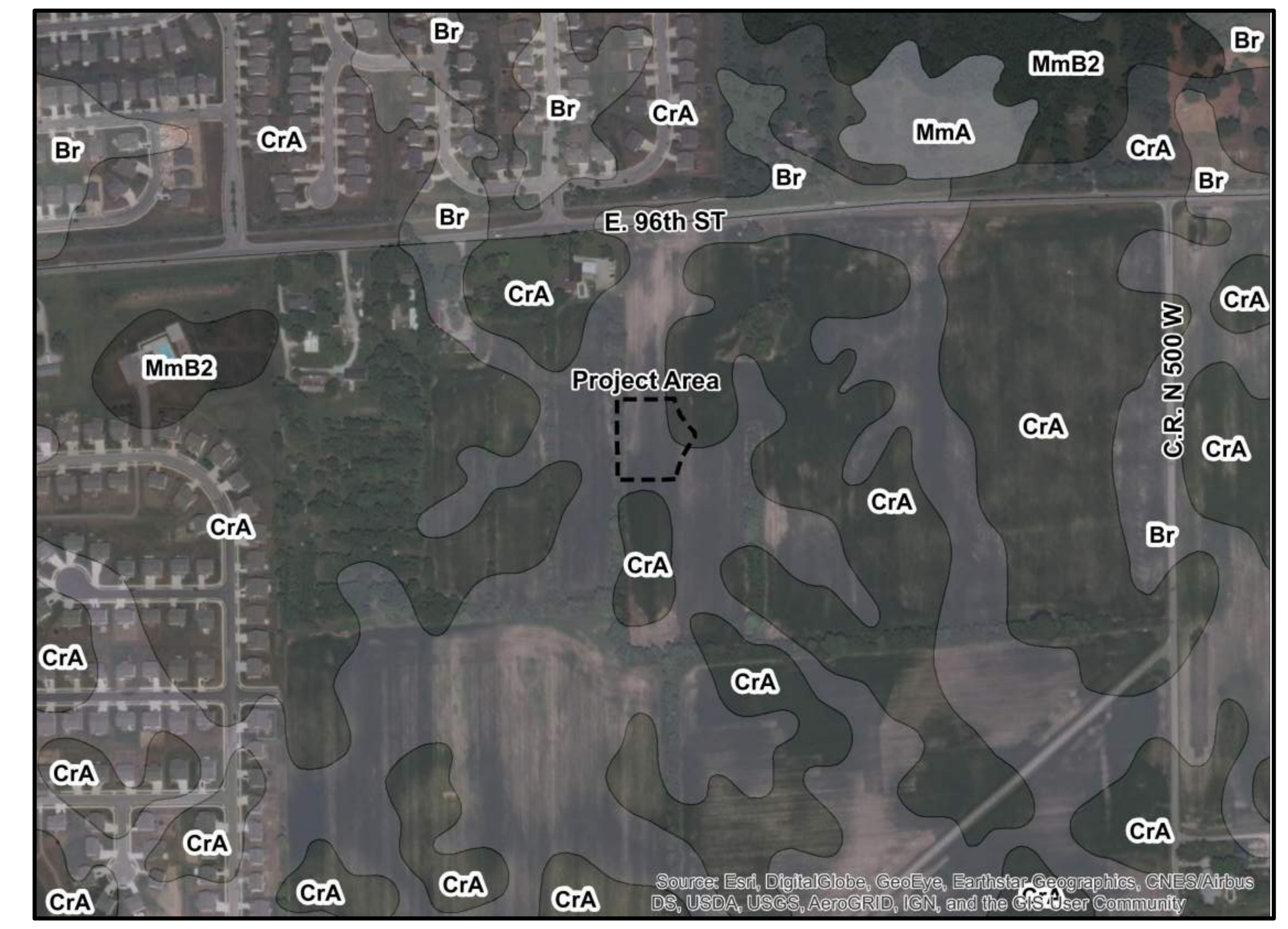
McCORD POINTE
SEC. 7 AMENITY AREA
Lennar Homes of Indiana, LLC



LOCATION MAP
SCALE 1"= 1,000 FEET

DEVELOPER:
LENNAR HOMES OF INDIANA, LLC
STUART HUCKELBERRY
11555 N. MERIDIAN ST., SUITE 400
CARMEL, IN 46032
(317) 659-3200

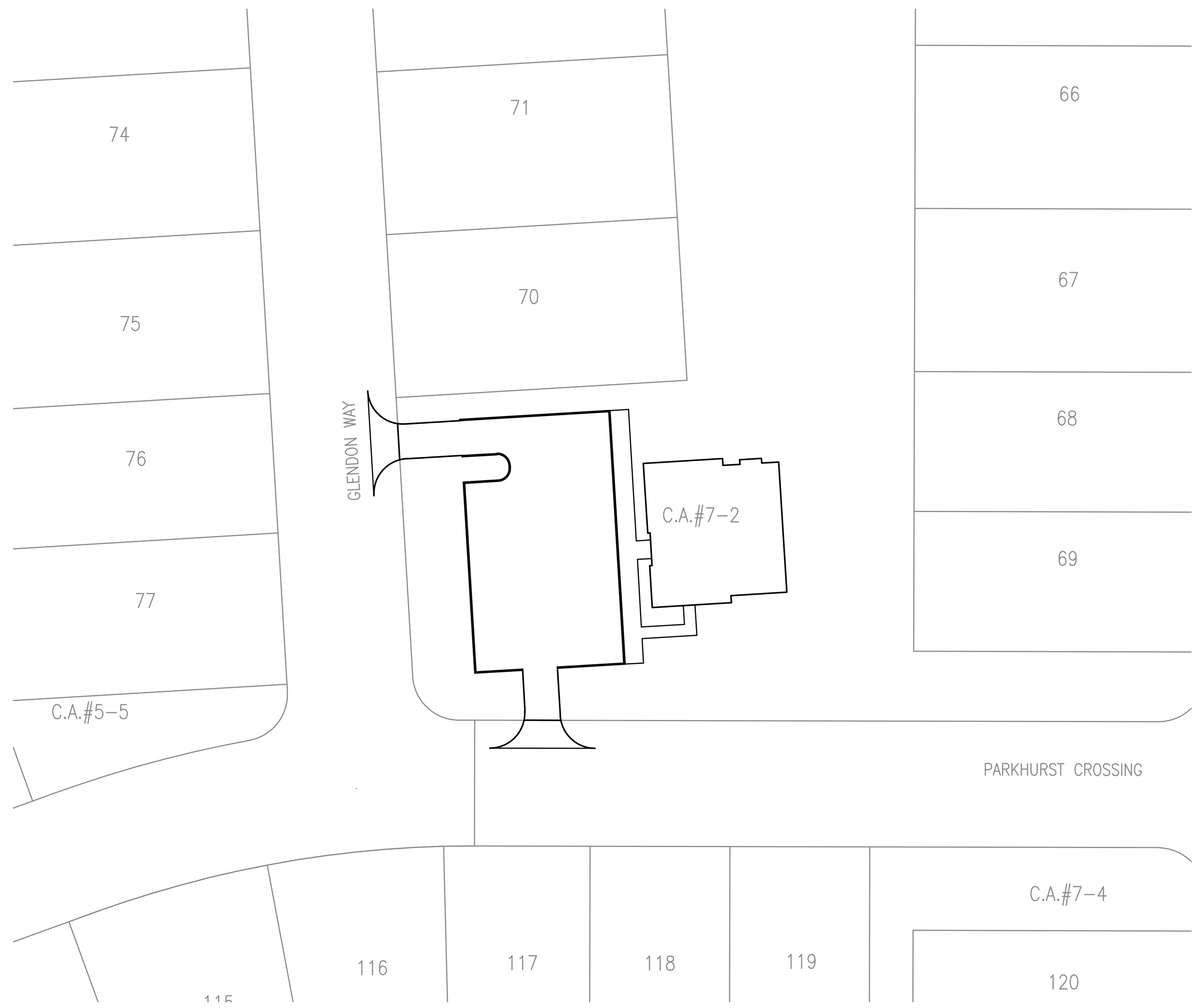
CIVIL ENGINEER and SURVEYOR:
HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
(317) 347-3663
keichhorn@hwcengineering.com



SOILS MAP
NOT TO SCALE

SOIL DESCRIPTIONS/LIMITATIONS

1. Br – Brookston silty clay loam, 0 to 2 percent slopes
For the construction of local roads and streets, this soil is rated very limited due to a high potential for ponding, limited depth to a saturated zone (water table), high potential for frost action, moderate potential for shrink/swell action, and low strength. For the construction of homes, this soil is rated very limited due to a limited depth to a saturated zone (water table) and high potential for ponding. The potential for shrink/swell action is low however.
2. CrA – Crosby silty loam, fine-loamy subsoil, 0 to 2 percent slopes
For the construction of local roads and streets, this soil is rated very limited due to a high potential for frost action, limited depth to a saturated zone (water table), and low strength. For the construction of homes, this soil is rated very limited due to a limited depth to a saturated zone (water table).



SITE MAP
SCALE: 1" = 50'

SHEET LIST TABLE

Sheet Title	Sheet Description
C1.0	COVER
C1.1	SITE IMPROVEMENTS PLAN
C1.2	GRADING PLAN
C1.3	PRE-CONSTRUCTION STORMWATER POLLUTION PREVENTION & DEMOLITION PLAN
C1.4	ACTIVE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN
C1.5	POST CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN
C1.6	UTILITY PLAN
C8.0	STORMWATER POLLUTION PREVENTION NOTES
C8.1-C8.4	STORMWATER POLLUTION PREVENTION DETAILS
C8.5	CONSTRUCTION DETAILS

BENCHMARK INFORMATION:
CUT SQUARE ON BACK OF CURB AT INTERSECTION OF NORTH ANCHOR BEND AND NORTH MARINERS CREST. SQUARE IS AT THE NORTH EAST PORTION OF INTERSECTION 3' WEST OF A FIRE HYDRANT.
ELEVATION = 847.28 (NGVD 29)

McCORDSVILLE TOWN STANDARDS SHEET LIST TABLE

Sheet Title	Sheet Description
1	DIRECTIONS FOR USE & GENERAL NOTES
2	RIGHT-OF-WAY SECTIONS & PAVEMENT SPECIFICATIONS
3	RIGHT-OF-WAY DETAILS
4	UTILITY LOCATION GUIDELINES
5	DRIVE WAY & HANDICAP RAMP DETAILS
6	STORM SEWER STRUCTURE DETAILS
7	STORM SEWER BEDDING DETAILS AND GENERAL NOTES
8	SANITARY SEWER SPECIFICATIONS
9	SANITARY SEWER DETAILS
10	SANITARY SEWER LIFT STATION STANDARDS & GUIDELINES

PLAN COMMISSION APPROVAL ______________
DRAINAGE APPROVAL ______________
ADDRESS APPROVAL ______________
EROSION CONTROL APPROVAL ______________
COUNTY ENGINEER APPROVAL ______________
COUNTY SANITARIAN APPROVAL ______________
COUNTY COMMISSIONERS APPROVAL ______________

SITE DATA

LOTS: 0
DISTURBED AREA: 1.0 AC
START CONSTRUCTION: SEPTEMBER 2020
END CONSTRUCTION: APRIL 2021

ZONED McCORD POINTE AMENDED PUD ORDINANCE NO. 101017B, AN ORDINANCE AMENDING THE TOWN OF McCORDSVILLE ZONING ORDINANCE NO. 121410, AS AMENDED.

CONTACT INFORMATION:

CITIZENS ENERGY GROUP/ CWA AUTHORITY, INC. (WATER)
BRAD HOSTETLER
2150 DR. MARTIN LUTHER KING JR. STREET
INDIANAPOLIS, INDIANA 46202
P: (317) 927-4351
BHOSTETLER@CITIZENSENERGYGROUP.COM

NINESTAR CONNECT (Electric & Telecom)
ERIC MEYER (317) 323-2074
2243 East Main Street
Greenfield, Indiana 46140
EMEYER@NINESTARCONNECT.COM

COMCAST
MATT STRINGER
5330 E. 65th Street
Indianapolis, IN 46220
P: (317) 774-3384
F: (317) 219-5090
matthew_stringer@cable.comcast.com

VECTREN
SANDRA CASEY
16000 Allisonville Road
Noblesville, Indiana 46061
P: (317) 776-5532,
F: (317) 776-5553
Mailing Address: P.O. Box 1700
Noblesville, Indiana 46061
sandra.casey@centerpointenergy.com

MCCORDSVILLE FIRE DEPARTMENT
7580 N Form Street
McCordsville, Indiana 46055
P: (317) 335-9236

TOWN OF MCCORDSVILLE PLANNING AND BUILDING DEPT
RYAN CRUM
6280 W 800 N
McCordsville, Indiana 46055
P: (317) 335-3604
rcrum@mccordsville.org

TOWN OF MCCORDSVILLE ENGINEERING DEPARTMENT
MARK WITSMAN
6280 W 800 N
McCordsville, IN 46055
P: (317) 335-3604
mwitsman@mccordsville.org

TOWN OF MCCORDSVILLE PUBLIC WORKS
RON CRIDER
6280 W 800 N
McCordsville, IN 46055
P: (317) 335-3493
rcrider@mccordsville.org

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
MCCORDSVILLE, INDIANA
COVER SHEET

PRELIMINARY
NOT FOR CONSTRUCTION
KRISTOPHER K. EICHHORN REGISTERED No. 11400758 STATE OF INDIANA PROFESSIONAL ENGINEER
Kristopher K. Eichhorn

DRAWN BY: DC
CHECKED BY: KE
DATE: MARCH 2022
SCALE: AS SHOWN
JOB NUMBER: 2019-003-A
SHEET
C1.0
COVER SHEET

Plot Date: Aug 22, 2022 Plot Time: 4:42pm File Name: W:\calatlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A.Cover Sheet.dwg, Layout: C1.0 By: keichhorn

SITE IMPROVEMENT GENERAL NOTES:

1. ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS INCLUDING SIDEWALKS SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVEMENT AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

2. WHERE NECESSARY, UTILITY SERVICE CONDUITS SHALL BE INSTALLED UNDER PAVED AREAS AND BACKFILLED AS SPECIFIED ABOVE BEFORE PAVEMENT IS CONSTRUCTED. COORDINATE CONDUIT REQUIREMENTS WITH UTILITY COMPANIES AND MECHANICAL CONTRACTORS.

3. FOLLOWING THE COMPLETION OF ALL UNDERGROUND WORK IN PAVED AREAS, AGGREGATE BASE SHALL BE APPLIED AND COMPACTED TO THE THICKNESS INDICATED ON THE APPROPRIATE PAVEMENT DESIGN DETAIL. COMPACT BASE COURSE AT OPTIMUM MOISTURE CONTENT TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D-1557. WHEN THICKNESS OF COMPACTED BASE EXCEEDS 6 INCHES, PLACE MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES OR LESS THAN 3 INCHES THICK WHEN COMPACTED. COMPACT WITH A MEDIUM WEIGHT SMOOTH WHEELED ROLLER OR EQUIVALENT. ALONG CURBS, WALLS AND ALL LOCATIONS NOT ACCESSIBLE TO THE ROLLER, COMPACT AGGREGATE BASE WITH HAND OPERATED TAMPERS.

4. BITUMINOUS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDOT STANDARD SPECIFICATIONS, SECTION 400. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH INDOT STANDARD SPECIFICATIONS, SECTION 500. SEE CONSTRUCTION DETAILS FOR PAVEMENT DESIGN INFORMATION.

5. THE CONNECTION OF NEW PAVEMENT TO EXISTING PAVEMENT IN THE PARKING LOTS AND DRIVEWAYS SHALL MATCH EXISTING GRADES AND PROFILES. A LAP JOINT IS REQUIRED FOR CONNECTIONS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENTS.

6. UNLESS NOTED OTHERWISE, ALL PAVEMENT STRIPING WITHIN THE PROJECT SITE SHALL BE PAINTED WITH WHITE LATEX, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAINT WITH MECHANICAL EQUIPMENT AND/OR STENCILS TO PRODUCE CLEAN, STRAIGHT AND UNIFORM EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PRODUCE A MINIMUM 12 TO 15 MILS DRY THICKNESS.

7. PORTLAND CEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-150. ONLY ONE BRAND AND MANUFACTURER OF APPROVED CEMENT SHALL BE USED FOR ANY ONE STRUCTURE. REGULAR FINE AND COARSE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33. ALL WATER USED SHALL BE POTABLE, CLEAN AND FREE FROM OILS, ACIDS, ALKALIS, ORGANIC MATERIAL OR OTHER SUBSTANCES THAT MAY BE DELETERIOUS TO CONCRETE OR STEEL.

8. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. WELDED WIRE FABRIC OR WIRE MESH SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-185. REINFORCEMENT SHALL BE CUT AND BENT IN ACCORDANCE WITH ACI 315. COMPLY WITH ARSI RECOMMENDED PRACTICE "PLACING REINFORCING BARS" FOR PLACING AND SUPPORTING REINFORCEMENT.

9. ALL CONCRETE USED ON THIS PROJECT SHALL BE CLASS A STRUCTURAL CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, 6-1/2 BAGS, 2 TO 4 INCH SLUMP RANGE, 5% TO 8% AIR CONTENT. CLASS A CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH ACI 211.1. ALL READY MIXED CONCRETE SHALL BE MIXED, DELIVERED, AND PLACED IN ACCORDANCE WITH ASTM C-94.

10. FORMS SHALL BE CONSTRUCTED OF WOOD, PLYWOOD, STEEL, OR OTHER APPROVED MATERIALS AND SHALL BE MORTAR TIGHT. THE FORMS AND ASSOCIATED FALSEWORK SHALL BE SUBSTANTIAL AND UNYIELDING AND SHALL BE CONSTRUCTED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE DIMENSIONS AND CONTOURS SHOWN ON THE DRAWINGS. FORM SURFACES SHALL BE SMOOTH AND FREE FROM HOLES, DENTS, SAGS, AND OTHER IRREGULARITIES. THE FORMS SHALL BE COATED WITH A NON-STAINING OIL BEFORE CONCRETE IS POURED. REMOVE FORMS A MINIMUM OF 24 HOURS AFTER PLACING CONCRETE.

11. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304. FORMED CONCRETE SHALL BE UNIFORMLY CONSOLIDATED USING A MECHANICAL VIBRATOR. COMPLY WITH THE RECOMMENDATIONS OF ACI 306R FOR COLD WEATHER PLACEMENT AND ACI 305R FOR HOT WEATHER PLACEMENT. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND TO ENSURE PROPER MOISTURE CONTROL DURING CURING.

GEOMETRIC LAYOUT NOTES:

1. ALL DIMENSIONS ARE REFERENCED TO THE EDGE OF PAVEMENT, EDGE OF SIDEWALK, FRONT OF CURB, OR OUTSIDE SURFACE OF BUILDING WALL UNLESS OTHERWISE NOTED.

2. REFER TO BUILDING PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS

3. THE TYPICAL PARKING SPACE IS 9' WIDE BY 18' DEEP FOR PARKING SPACES.

4. THE HANDICAP ACCESSIBLE PARKING SPACES (9'X18' MIN.) ARE TO BE IN ACCORDANCE WITH ADA SPECIFICATIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS. DIGITAL FILES OF CONSTRUCTION PLANS ARE AVAILABLE UPON REQUEST.

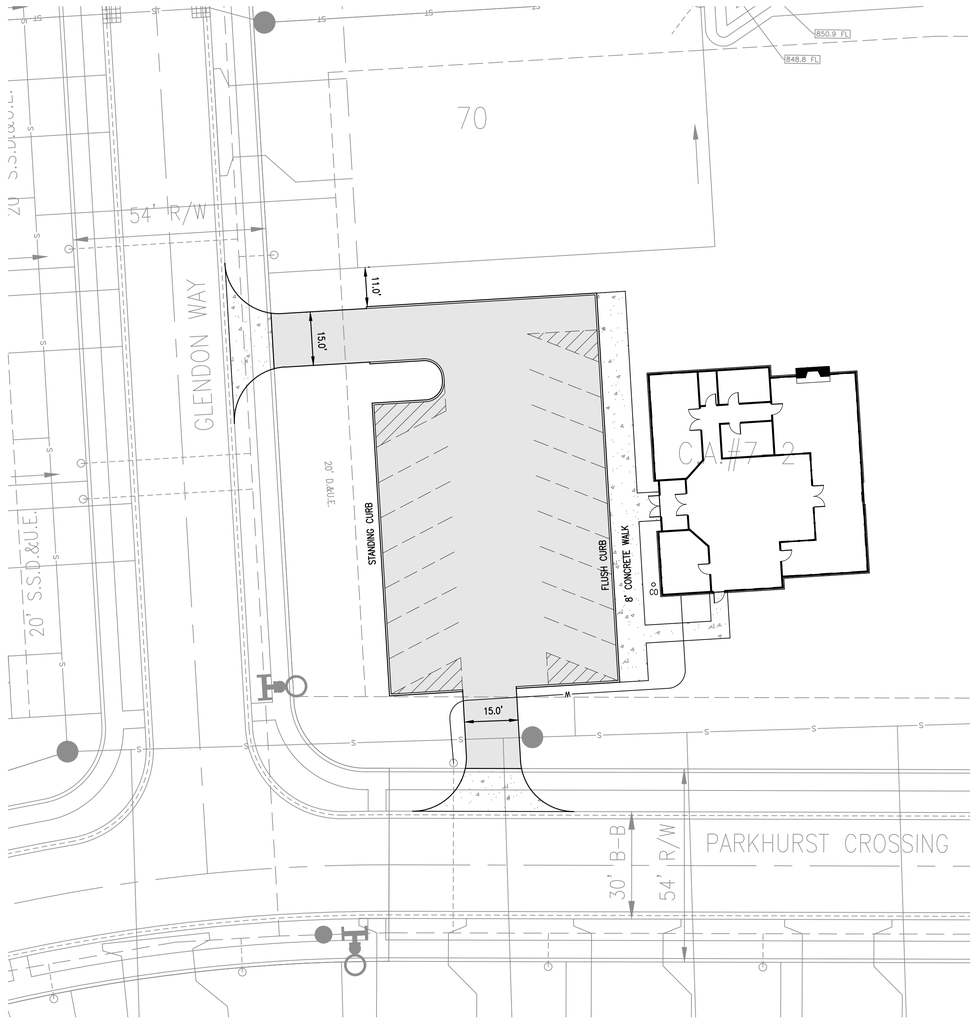
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTS. ANY PROPERTY CORNER MONUMENT DISTURBED OR DESTROYED DURING CONSTRUCTION ACTIVITY SHALL BE REPLACED BY AN INDIANA LICENSED SURVEYOR AT CONTRACTOR'S EXPENSE.

7. CONTRACTOR IS RESPONSIBLE FOR PROTECTING BENCHMARKS. IF BENCHMARKS ARE TO BE DISTURBED OR REMOVED AS PART OF THE DEMOLITION PLAN ACTIVITY, CONTRACTOR SHALL HAVE A INDIANA LICENSED SURVEYOR ESTABLISH ANOTHER BENCHMARK AT A LOCATION OUT OF HARM'S WAY.

8. ANY DISCREPANCIES IN LAYOUT DIMENSIONS SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH WORK AT THAT LOCATION.

SITE IMPROVEMENT KEYNOTES: (#)

1. INSTALL 2' CONCRETE ROLL CURB PER SHEET C8.5, DETAIL# 4.
2. EXISTING 2' CONCRETE ROLL CURB.
3. INSTALL CONCRETE WALK SHEET C8.5, DETAILS #1, 2 & 3. CONTRACTOR TO ENSURE ALL WALKS INSTALLED MEET A.D.A. GUIDELINES.
4. ADA PARKING STALLS PER SHEET C8.5, DETAIL #9.
5. ADA RAMP PER SHEET C8.5, DETAILS #6, 7 & 8
6. INSTALL ACCESSIBLE PARKING SIGN PER SHEET C8.5 DETAIL #10.
7. INSTALL PAVEMENT STRIPING PER SHEET C8.5 DETAIL #9.
8. INSTALL ASPHALT PAVEMENT PER SHEET C8.5 DETAIL #5
9. EXISTING STORM SEWER STRUCTURE, SEE GRADING & UTILITY PLAN SHEET C1.2.
10. EXISTING FIRE HYDRANT, SEE GRADING & UTILITY PLAN SHEET C1.2.
11. EXISTING SANITARY SEWER STRUCTURE, SEE GRADING & UTILITY PLAN SHEET C1.2
12. POOL DECK: 4" CONCRETE FURNISHED BY THE POOL CONTRACTOR.
13. 6' BLACK ORNAMENTAL FENCE AT POOL DECK EDGE. FENCE TO BE ALONG PERIMETER EDGE OF POOL DECK, CORNERS OR COVERED PATIO TO CONNECT TO BUILDING PROVIDING FULL ENCLOSURE. – BY OTHERS
14. LANDSCAPING/GRASS.
15. SANITARY CLEAN OUT.
16. 4' BACK ORNAMENTAL FENCE SEPARATING CHILD POOL AND POOL. – BY OTHERS



LAND DESCRIPTION

Common Area 1A-3 in McCord Pointe Section 1A, an addition in Hancock County, Indiana as set forth in the plat recorded JANUARY 9, 2019 in Plat Cabinet D, Slide 45, as Instrument No. 201900250, in the Office of the Recorder of Hancock County, Indiana.

Indiana 811
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
Call 811 or 800-382-5544 Before you Dig!

GRAPHIC SCALE
0' 20' 40' 60'
(IN FEET)

LEGEND:

EXISTING		PROPOSED
	PROPERTY LINE	
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
x x x x x x	FENCE	x x x x x x
	SANITARY MANHOLE	
	STORM MANHOLE	
	STORM INLET	
	STORM END SECTION	
	EXISTING WATER VALVE	
	FIRE HYDRANT	
	LIGHT POLE	
	SIGN	
	CLEAN OUT STRUCTURE	
25	LOT NUMBER	
S.F.	SQUARE FEET	
D.&U.E.	DRAINAGE & UTILITY EASEMENT	
D.E.	DRAINAGE EASEMENT	
D.U.&S.S.E.	DRAINAGE UTILTIY & SANITARY SEWER EASEMENT	
C.A.	COMMON AREA	
R/W	PUBLIC RIGHT OF WAY	
D.&L.M.A.E.	DRAINAGE & LANDSCAPE, MAINTENANCE ACCESS EASEMENT	
	PROPOSED ASPHALT PAVEMENT	
	PROPOSED CONCRETE PAVEMENT	

PARKING TABLE

PROVIDED IN PLAN
17 – 9'x20' PARKING SPACES
0 – 9'x20' ACCESSIBLE SPACES

PREPARED BY:

HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE SEC. 7 AMENITY AREA
MCCORDSVILLE, INDIANA
SITE PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

KRISTOPHER K. EICHHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

Kristopher K. Eichhorn

DRAWN BY	JOB NUMBER
TS	2019-003-A
CHECKED BY	
KE	
DATE	
MARCH 2022	
SCALE	
AS SHOWN	

SHEET
C1.1
SITE PLAN

Plot Date: Aug 22, 2022 Plot Time: 4:49pm File Name: W:\calatlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A Site Plan.dwg, Layout: C1.1 By: kelchhorn

EARTHWORK NOTES:

1. EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 200 OF THE INDOT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER'S OFFICE AND THE OWNER AT LEAST 48 HOURS BEFORE BEGINNING EXCAVATION.

2. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER FOR THIS PROJECT PER PROJECT SPECIFICATIONS. THE GEOTECHNICAL ENGINEER WILL INSPECT SOIL CONDITIONS, PROOF-ROLLING, AND FIELD DENSITY OF COMPACTED FILLS. ALL SUBGRADES AND FILLS SHALL MEET OR EXCEED THE SPECIFIED DENSITIES, AS DISCUSSED BELOW. BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBGRADES OR FILLS WHICH ARE BELOW SPECIFIED DENSITIES WILL REQUIRE ADDITIONAL COMPACTION WORK AND TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER. COMPACTION TESTS SHALL BE TAKEN AT RANDOM INTERVALS AND ELEVATIONS THROUGHOUT THE FILL EMBANKMENTS.

3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE DURING FINISH GRADING AND LANDSCAPE WORK. STRIPPED TOPSOILS SHALL BE STOCKPILED AS SHOWN IN STORMWATER POLLUTION PREVENTION PLAN. TOPSOIL IS DEFINED AS FERTILE, FRIABLE NATURAL LOAM SURFACE SOILS, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, AND OTHER LITTER OR STONES LARGER THAN 1/2 INCH. LOOSE DEBRIS, TOPSOILS AND UNSUITABLE SUBSOILS SHALL BE STRIPPED FROM AREAS OF THE SITE THAT ARE TO BE DEVELOPED. THE CONTRACTOR SHOULD REVIEW THE GEOTECHNICAL REPORT, AS THE DEPTH OF STRIPPING OF SURFACE SOILS MAY VARY BY LOCATION WITHIN THE SITE. THE ENGINEER SHALL DESIGNATE ON-SITE LOCATIONS TO STORE OR DEPOSIT STRIPPED SOILS. CONTRACTOR SHALL REMOVE TOPSOILS AND UNSUITABLE SUBSOILS FROM ALL AREAS TO OCCUPIED BY BUILDINGS AND PAVEMENTS. IN ADDITION, ANY AREAS TO BE UTILIZED AS BORROW AREAS FOR FILL MATERIAL MUST ALSO BE STRIPPED OF TOPSOILS. A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE REPLACED IN LAWN AND LANDSCAPED AREAS. IF THE AMOUNT OF STOCKPILED TOPSOIL EXCEEDS QUANTITY REQUIRED, THE EXCESS SHALL BE SPREAD ON THE SITE WHERE DIRECTED BY THE ENGINEER OR DISPOSED OF OFFSITE.

4. ALL COMPACTED FILL MATERIAL SHALL BE SATISFACTORY BORROW SOILS APPROVED BY THE GEOTECHNICAL ENGINEER. ALL FILL MATERIAL SHALL BE FREE OF ORGANIC MATTER, LARGE ROCK GREATER THAN 3 INCHES, RUBBISH, OR OTHER UNSUITABLE MATERIAL. SAMPLES OF THE FILL MATERIALS SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO PLACEMENT. ALL FILL EMBANKMENTS UNDER PAVED AREAS, SIDEWALKS, AND PADS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM DENSITY TEST D698. THE TOP 12 INCHES OF BUILDING SUBGRADE AND EACH 8 INCH LAYER OF BUILDING FILL EMBANKMENTS SHALL BE COMPACTED TO 100% MAXIMUM DRY DENSITY. THE AREA OF COMPACTED FILL FOR THE BUILDING SHALL EXTEND AT LEAST 5 FEET BEYOND THE EXTERIOR WALLS. ALL OTHER FILLS SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY. FILL MATERIALS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO ENSURE COMPACTION SPECIFICATIONS ARE MET. EXCESSIVELY WET MATERIAL SHALL BE SPREAD AND DRIED SUFFICIENTLY SO THAT THE MOISTURE CONTENT WILL PERMIT PROPER COMPACTION. EACH LAYER SHALL BE UNIFORMLY COMPACTED USING A VIBRATORY COMPACTOR OR OTHER APPROVED EQUIPMENT SUITED TO THE LOCATION AND MATERIAL BEING PLACED. LIFTS SHALL NOT EXCEED 4 INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.

5. IN-PLACE DENSITY TESTS SHALL BE PERFORMED THROUGHOUT THE BUILDING FILL EMBANKMENTS. AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2000 SQ. FT OF BUILDING FILL OR SUBGRADE, BUT IN NO CASE FEWER THAN 3 TESTS. WHERE THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE COMPACTION SPECIFICATIONS ARE NOT OBTAINED, OR WHERE APPROVED COMPACTED FILLS ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT ACTIVITY OR ADVERSE WEATHER, THOSE AREAS SHALL BE REWORKED UNTIL COMPACTION CRITERIA ARE ACHIEVED. THE GEOTECHNICAL ENGINEER SHALL ISSUE A REPORT DOCUMENTING THE SUFFICIENCY OF THE FINAL COMPACTED FILL TO THE OWNER AND THE PROJECT ENGINEER.

6. AFTER THE PAVEMENT SUBGRADE SOILS HAVE BEEN FILLED AND COMPACTED, AND IN AREAS WHERE THE PAVEMENT SUBGRADE ELEVATIONS ARE ACHIEVED WITHOUT FILL OPERATIONS, THESE AREAS SHALL BE PROOF-ROLLED WITH A FULLY LOADED TRI-AXLE DUMP TRUCK, MEDIUM WEIGHT ROLLER OR OTHER APPROVED EQUIPMENT TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIALS ARE PRESENT. IF POCKETS OF UNSUITABLE MATERIALS ARE ENCOUNTERED, THEY SHALL BE REMOVED AND REPLACED WITH SPOT SUBGRADE REINFORCEMENT OR COMPACTED GRANULAR FILL. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING PROOF-ROLLING OPERATIONS AND SHALL SUBMIT A REPORT OF ACCEPTANCE TO THE ENGINEER AND OWNER.

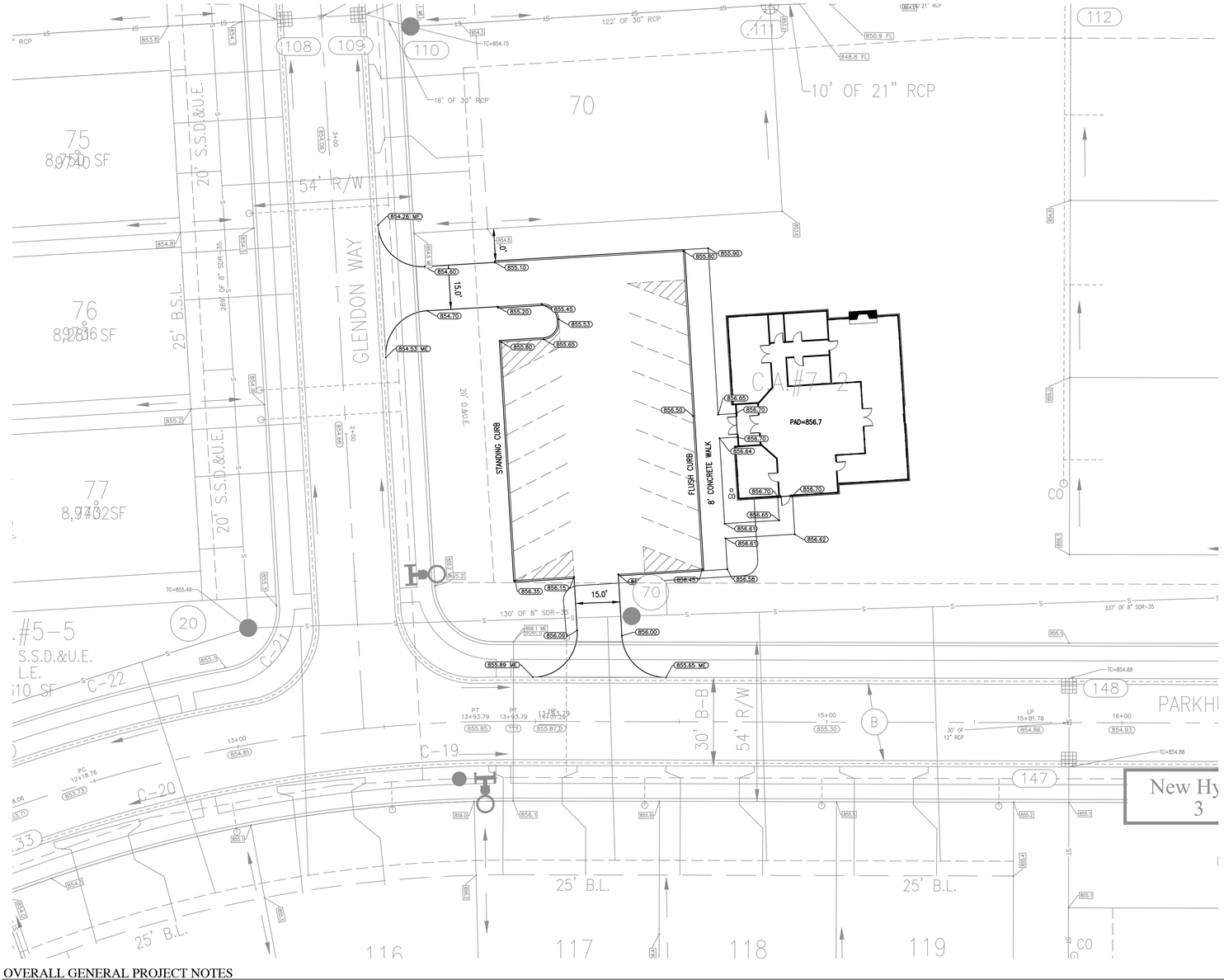
7. WHERE THE APPROVED COMPACTED SUBGRADES ARE DISTURBED BY CONTRACTOR'S SUBSEQUENT ACTIVITY OR ADVERSE WEATHER, THE SUBGRADES SHALL BE SCARIFIED AND RECOMPACTED AS SPECIFIED ABOVE PRIOR TO THE CONTINUATION OF CONSTRUCTION.

8. FOLLOWING THE COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE REPLACED IN AREAS DESIGNATED FOR SEEDING, SODDING, OR LANDSCAPING TO A MINIMUM DEPTH OF 6 INCHES. THE FINISHED SURFACE SHALL BE UNIFORMLY AND SMOOTHLY GRADED AND SHALL BE FREE OF DEPRESSED AREAS WHERE WATER WILL POND. LIGHTLY COMPACT TOPSOIL AFTER PLACEMENT. THE FINISHED SURFACE GRADES SHALL NOT BE MORE THAN 0.1 FOOT ABOVE OR BELOW THE GRADES INDICATED ON THE PLANS. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND ADJACENT FILL EMBANKMENTS.

9. EXCAVATE FOR STRUCTURES TO WITHIN 0.1 FOOT OF THE DESIGN ELEVATIONS AND DIMENSIONS. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMWORK. DO NOT DISTURB THE BOTTOM OF THE EXCAVATION INTENDED FOR BEARING SURFACE. EXCAVATE BY HAND TO FINAL GRADE BEFORE PLACING CONCRETE FORMWORK AND REINFORCEMENT SO FOOTINGS AND FOUNDATIONS BEAR ON UNDISTURBED COMPACTED SOILS.

10. BACKFILL MATERIAL SHALL BE FREE OF ROCKS, SLAG, RUBBLE AND DEBRIS. BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES LOOSE THICKNESS AND THOROUGHLY COMPACTED BY TAMPING OR ROLLING. WHERE BACKFILLING IS REQUIRED ON BOTH SIDES OF A FOUNDATION WALL, THE BACKFILL MATERIAL SHALL BE PLACED EQUALLY ON BOTH SIDES TO AVOID UNBALANCED SOIL PRESSURE ON ONE SIDE OF THE WALL.

11. TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED WITH "B" BORROW OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE PAVEMENT WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.



GRAPHIC SCALE

0' 20' 40' 60'

(IN FEET)

Indiana 811
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LEGEND:

EXISTING		PROPOSED
	PROPERTY LINE	
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	FENCE	
S	EXISTING SANITARY SEWER	
ST	EXISTING STORM SEWER	
W	EXISTING WATER MAIN	
G	EXISTING GAS LINE	
T	EXISTING TELPHONE LINE	
E	EXISTING ELECTRIC LINE	
	SANITARY MANHOLE	XXX
	STORM MANHOLE	XXX
	STORM INLET	XXX
	STORM END SECTION	XXX
	FIRE HYDRANT	
N/A	FLOW ARROW	
	LIGHT POLE	
	SIGN	
	CLEAN OUT STRUCTURE	
25	LOT NUMBER	
S.F.	SQUARE FEET	
D.&U.E.	DRAINAGE & UTILITY EASEMENT	
D.E.	DRAINAGE EASEMENT	
D.U.&S.S.E.	DRAINAGE UTILITY & SANITARY SEWER EASEMENT	
C.A.	COMMON AREA	
R/W	PUBLIC RIGHT OF WAY	
D.&L.M.A.E.	DRAINAGE & LANDSCAPE, MAINTENANCE ACCESS EASEMENT	
TB	TOP OF BANK GRADE	
TC	TOP OF CASTING GRADE	
ME	MATCH EXISTING GRADE	
FFE	FINISHED FLOOR ELEVATION	
MFPG	MINIMUM FLOOD PROTECTION GRADE	
MLAG	MINIMUM LOWEST ADJACENT GRADE	
	EMERGENCY OVERFLOW ROUTE	
XXX.X	SPOT ELEVATION	XXX.X
N/A	PAVEMENT ELEVATION	XXX.XX
	TOP OF CURB GUTTER	XXX.XX TC XXX.XX GUT
	TOP OF WALL ELEVATION	XXX.X TW
	BOTTOM OF WALL ELEVATION	XXX.X BW

STORM SEWER NOTES:

1. CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH TOWN OF MCCORDSVILLE AND SECTION 715 OF THE INDOT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS. ALL MAIN LINE STORM SEWER PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP). UNLESS SPECIFICALLY NOTED OTHERWISE STORM DRAIN PIPE FOR ROOF DOWNSPOUT AND OTHER MISCELLANEOUS CONNECTIONS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE (PVC SDR-35), IF APPLICABLE.

2. TRENCHES UNDER PAVED STREET AREAS SHALL BE BACKFILLED AND COMPACTED WITH "B" BORROW OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE PAVEMENT WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

3. THE CONTRACTOR SHALL NOTIFY THE TOWN OF MCCORDSVILLE AT LEAST 48 HOURS PRIOR TO ANY STORM SEWER EXCAVATION OR CONSTRUCTION. TOWN OF AVON PUBLIC WORKS DEPARTMENT APPROVAL IS REQUIRED BEFORE ANY MODIFICATIONS OR IMPROVEMENTS TO THE SITE DRAINAGE

4. ALL STORM DRAINS CROSSING WITHIN 18" VERTICALLY OF A SANITARY SEWER OR WATER MAIN SHALL HAVE A CONCRETE SPACER BLOCK POURED BETWEEN THE PIPES. WHERE WATER LINES AND SEWER LINES RUN PARALLEL WITH EACH OTHER, A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED.

5. PRIMARY DRAINAGE SYSTEM SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (ASTM A-76) UNLESS SPECIFICALLY NOTED OTHERWISE. PIPE FOR ROOF DRAINAGE CONNECTIONS AND SECONDARY SURFACE INLETS SHALL BE CONSTRUCTED OF PVC SDR-35 OR APPROVED EQUAL. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL END MADE INTEGRAL WITH THE PIPE. ROOF DRAIN PIPES BETWEEN THE BUILDING AND THE STORM STRUCTURES MAY HAVE VARIABLE SLOPES BASED ON UPSTREAM AND DOWNSTREAM INVERTS SHOWN ON THE PLANS AND POINT OF CONNECTION TO THE ROOF DOWNSPOUTS. SEE ARCHITECTURAL PLANS FOR INFORMATION REGARDING THE BUILDING ROOF DRAINS AND DOWNSPOUTS. PIPE MATERIAL SUBSTITUTIONS SHALL BE REQUESTED IN WRITING TO THE ENGINEER. INLETS, JUNCTION BOXES, AND MANHOLES MUST BE SIZED PROPERLY TO ACCOMMODATE THE PIPES CALLED FOR.

6. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION.

OVERALL GENERAL PROJECT NOTES

1. NOT ALL GAS, POWER, OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTORS BENEFIT. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY. IF MINOR CONFLICTS ARISE, THE CONTRACTOR MAY SHIFT THE PROPOSED LOCATION OF THE INSTALLATION OF THE WORK. BEFORE WORKING WITH OR AROUND UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR.

2. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE INDIANA OSHA AND ANY OTHER LOCAL STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, STANDARD DETAILS AND GENERAL INSTRUCTIONS TO FIELD EMPLOYEES. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. THE OPTION OF THE OWNER AND/OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS, AND TRAFFIC CONTROL DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, SAFETY MEETING REQUIREMENTS AND AGENCY REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY PRECAUTIONS, THERE WILL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK.

3. WHERE PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS OR BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER SUCH MONUMENTS ARE ENCOUNTERED AND CONFLICT WITH THE WORK, THE ENGINEER SHALL BE NOTIFIED BEFORE THEY ARE DISTURBED, THE MARKERS SHALL BE PROTECTED AFTER THE OWNER, ENGINEER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATIONS.

4. ALL MATERIALS DENOTED "SALVAGED" SHALL BE STORED AND PROTECTED AT THE SITE FOR THE OWNER TO COLLECT OR FOR THE CONTRACTOR TO RE-USE AS INDICATED.

5. THERE SHALL BE NO CHANGES WITHOUT WRITTEN APPROVAL OF ENGINEER.

6. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.

7. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS.

9. STRUCTURAL FILL: SHALL BE COMPACTED TO AT LEAST 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). SHALL BE FREE OF ORGANIC MATERIAL, DEBRIS, DELETERIOUS MATERIALS AND FROZEN SOLIDS.

10. SEE ARCHITECTURAL PLANS FOR BUILDING SPECIFICS.

PREPARED BY:

HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE SEC. 7 AMENITY AREA

GRADING PLAN

PRELIMINARY NOT FOR CONSTRUCTION

CHRISTOPHER K. ELCHHORN — REGISTERED — No. 11400758 — STATE OF INDIANA — PROFESSIONAL ENGINEER

DRAWN BY	JOB NUMBER 2019-003-A
TS	
CHECKED BY	
KE	
DATE	
MARCH 2022	
SCALE	
AS SHOWN	

SHEET

C1.2

GRADING PLAN

NOTES:
1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED.
2. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
3. THIS SHEET TO BE USED FOR STORMWATER POLLUTION PREVENTION PURPOSES ONLY.
4. GEOTEXTILE FABRIC SHALL BE PLACED UNDER STONE LAYER OF THE CONSTRUCTION ENTRANCE.
5. ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS.
6. WHERE EXISTING DRAIN TILES OR FIELD TILES ARE ENCOUNTERED WHERE APPLICABLE, INTERCEPT EXISTING TILES AND TIE THEM INTO THE STORM SYSTEM.
7. SHOULD THE CONTRACTOR CHOOSE TO UTILIZE LIME STABILIZATION FOR SOIL SUBGRADE UNDER PAVED AREAS, PLEASE REFERENCE NOTES ON CONSTRUCTION PLAN SHEET C8.0. WHILE THE NOTES ON SHEET C8.0 SHALL SERVE AS GENERAL GUIDELINES FOR USE OF LIME STABILIZATION, THE CONTRACTOR SHALL ADHERE TO SPECIFIC GUIDELINES AND SPECIFICATIONS FOR TRANSPORTATION, HANDLING, APPLICATION, CONTAINMENT AND SAFETY OF THE STABILIZATION MATERIAL AS OUTLINED BY THE MANUFACTURER AND/ OR SUPPLIER.

GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

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	SETBACK LINE	
	CENTERLINE	
	SWALE / FLOWLINE	
	FENCE	
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ST	EXISTING STORM SEWER	
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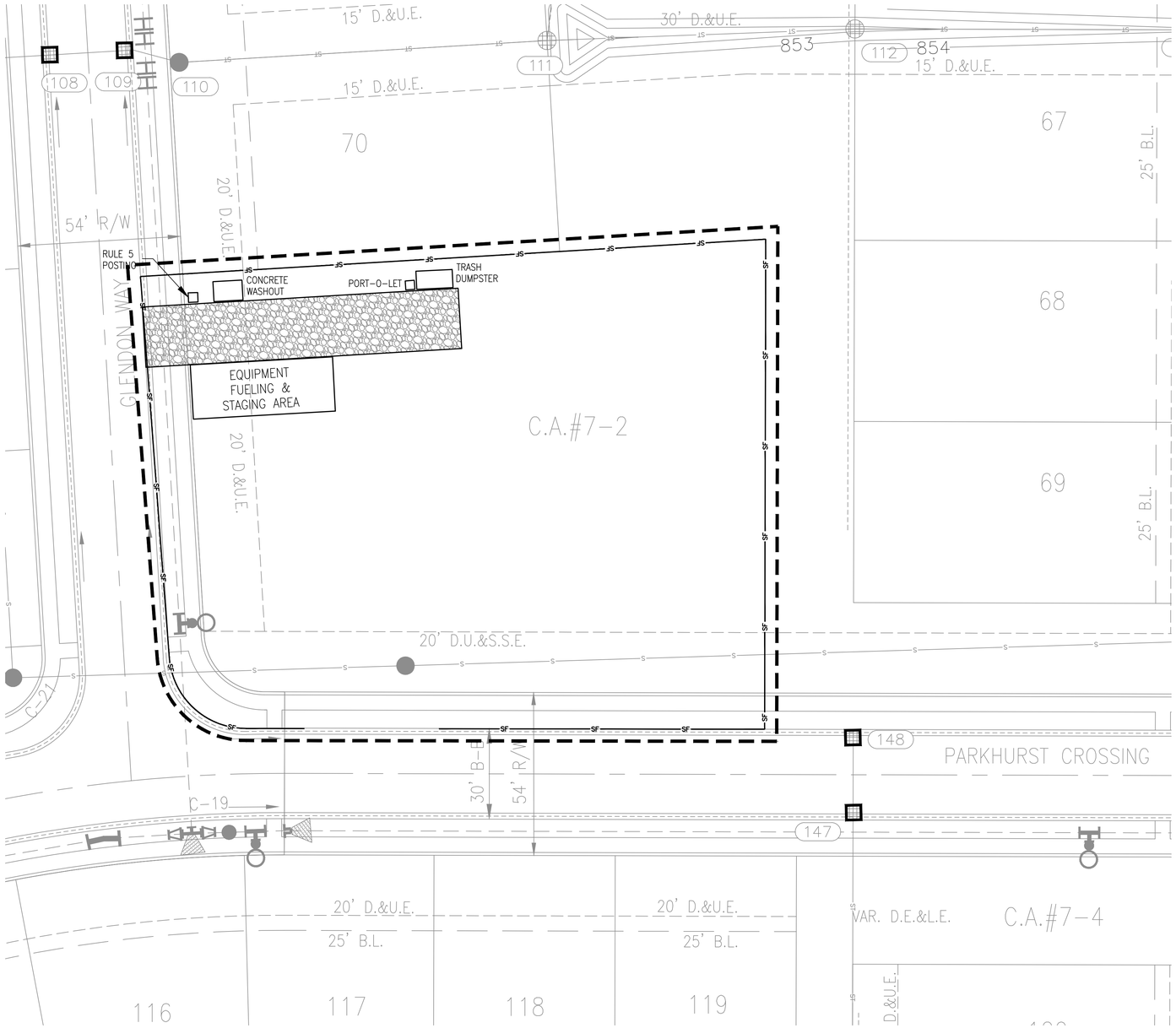
G	EXISTING GAS LINE	
T	EXISTING TELPHONE LINE	
E	EXISTING ELECTRIC LINE	
	EXISTING "DROP INLET PROTECTION BASKET"	
CURB INLET	EXISTING CURB INLET PROTECTION SEE SHEET C8.1 FOR DETAIL	
SF	SILT FENCE	
	CONSTRUCTION LIMITS	
	TEMPORARY SITE CONSTRUCTION ENTRANCE	



PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:
STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, INC.
PHONE: 317-659-3200
EMAIL: STUART.HUCKELBERRY@LENNAR.COM

NOTE:
SEE SHEET C8.0 FOR A LIST IN SEQUENCE OF CONSTRUCTION ACTIVITIES.

THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

PREPARED BY:
HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

REVISIONS

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HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
SEC. 7 AMENITY AREA
PRE-CONSTRUCTION SWPPP

PRELIMINARY
NOT FOR CONSTRUCTION
CHRISTOPHER K. ECKHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY TS	JOB NUMBER 2019-003-A
CHECKED BY KE	
DATE MARCH 2022	
SCALE AS SHOWN	
SHEET C1.3	

PRE-CONSTRUCTION SWPPP

Plot Date: Aug 22, 2022 Plot Time: 4:43pm File Name: W:\calatlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A.Erosion Control Plan.dwg, Layout: C1.3 By: keichhorn

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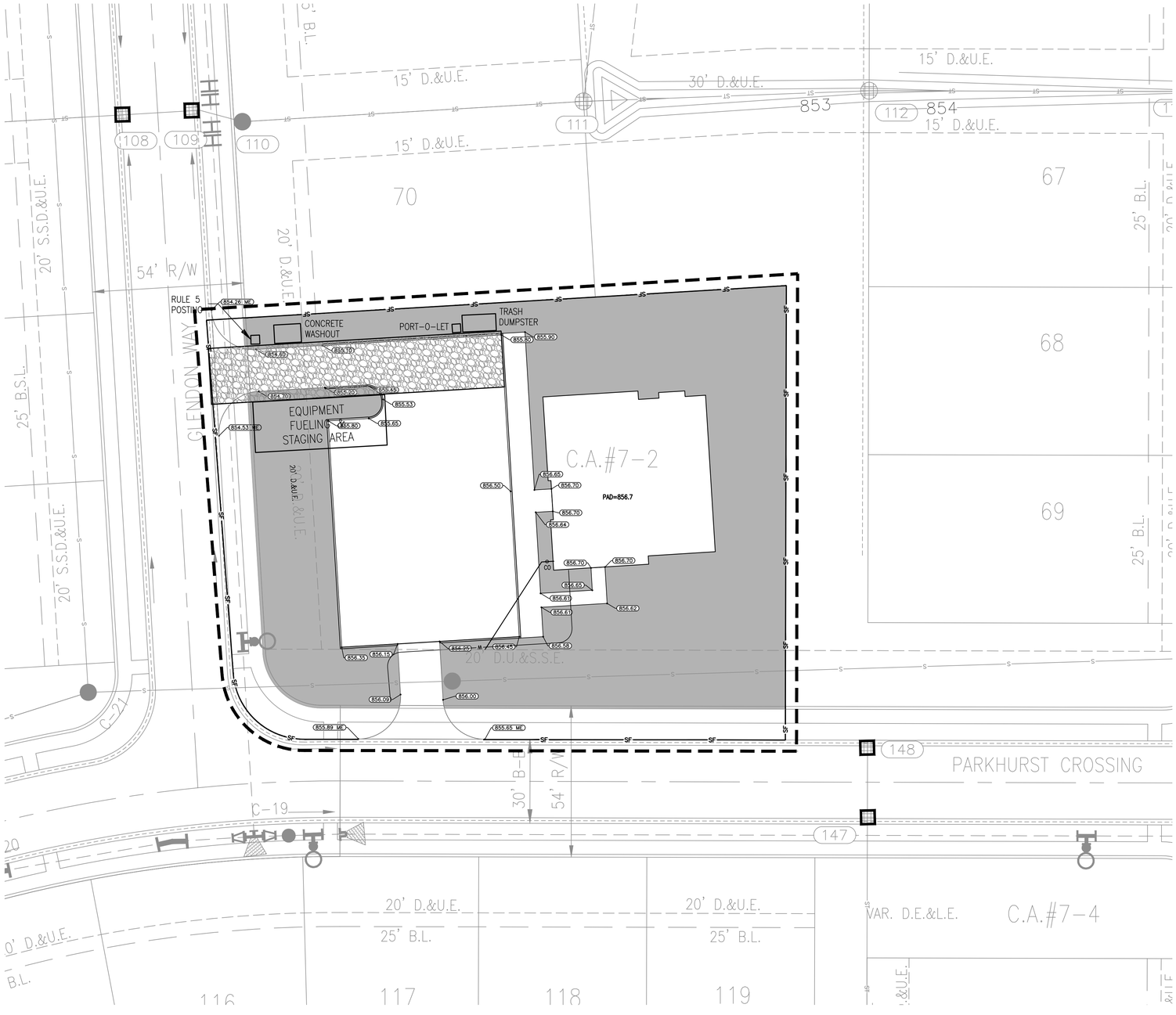

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	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
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	FENCE	
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ST	EXISTING STORM SEWER	
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E	EXISTING ELECTRIC LINE	
	PERMANENT SEEDING / SODDING	
	EXISTING "DROP INLET PROTECTION BASKET"	
CURB INLET	EXISTING CURB INLET PROTECTION SEE SHEET C8.1 FOR DETAIL	
SF	SILT FENCE	
	CONSTRUCTION LIMITS	
	TEMPORARY SITE CONSTRUCTION ENTRANCE	
	EROSION CONTROL BLANKET	

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PHONE: 317-659-3200
EMAIL: STUART.HUCKELBERRY@LENNAR.COM

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PREPARED BY:
HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

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INDIANAPOLIS - TERRE HAUTE
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MCCORD POINTE
SEC. 7 AMENITY AREA
ACTIVE CONSTRUCTION SWPPP

PRELIMINARY
NOT FOR CONSTRUCTION
KRISTOPHER K. EICHHORN
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	JOB NUMBER 2019-003-A
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MARCH 2022	
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ACTIVE CONSTRUCTION SWPPP	

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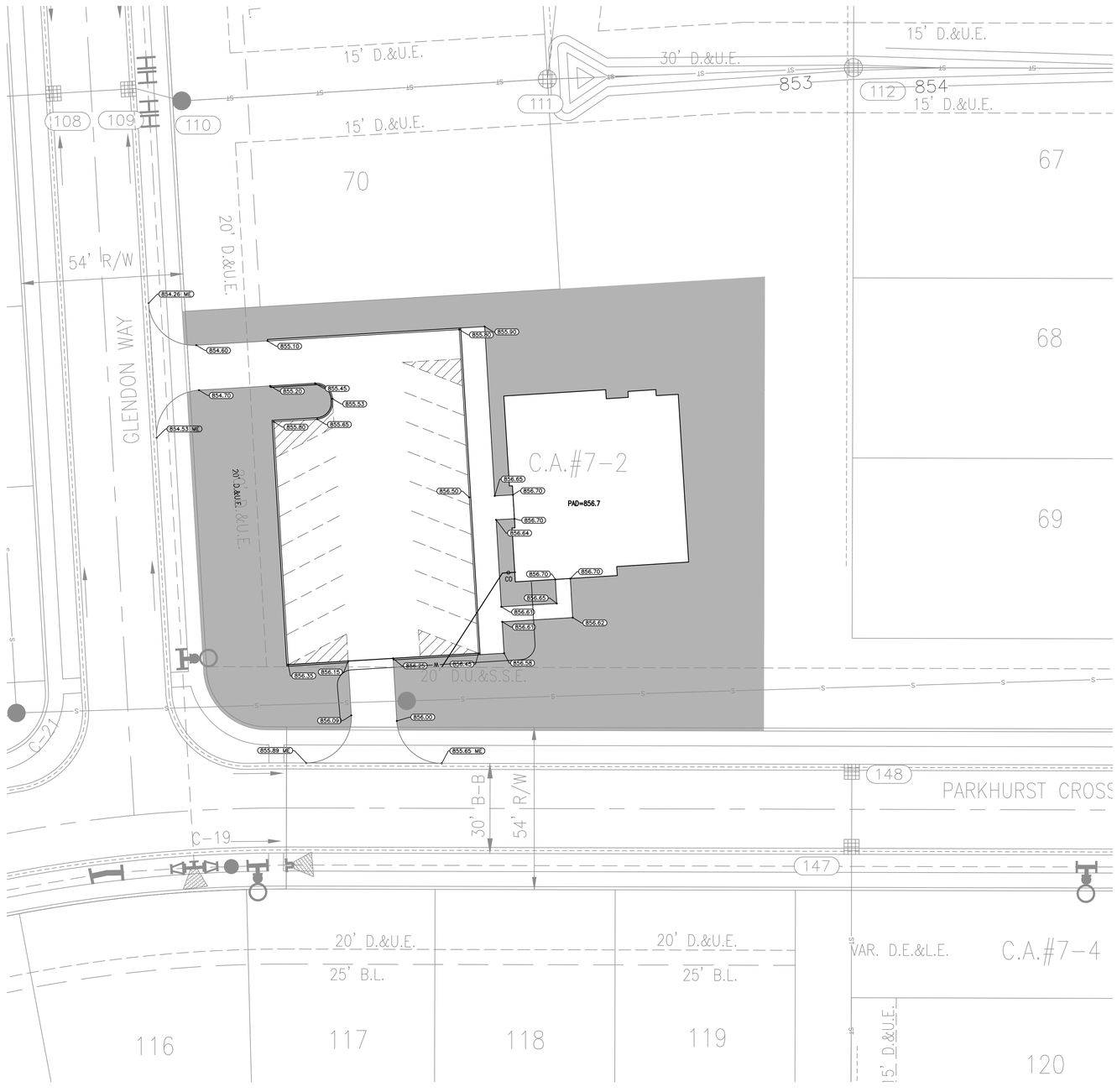

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www.hwcengineering.com

MCCORD POINTE
SEC. 7 AMENITY AREA
POST CONSTRUCTION SWPPP

PRELIMINARY
NOT FOR CONSTRUCTION
CHRISTOPHER K. LICHTHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	TS
CHECKED BY	KE
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WATER SYSTEM NOTES:

1. ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITIZENS ENERGY GROUP TYPICAL CONSTRUCTION SPECIFICATIONS AND DETAILS, AND SHALL MEET THE MINIMUM REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.

2. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 4'-5" OF COVER OVER THE TOP OF THE PIPE. A MINIMUM OF 18-INCHES VERTICAL SEPARATION AND 10-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS AND SEWERS (SANITARY AND STORM). PIPE DEPTHS SHOWN ON THESE PLANS ARE REFERENCED TO THE INVERT OF PIPE.

3. THE PROPOSED WATER SERVICE LINE WILL BE CONNECTED TO AN EXISTING WATER METER PIT. THE CONTRACTOR SHALL PERFORM ALL THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING FACILITIES. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE SHUT-OFFS WITH CITIZENS ENERGY GROUP.

4. TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED IN LIFTS WITH "B-BORROW" OR APPROVED GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATION SECTION 211. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

5. THE COMPLETED WATER SERVICE LINE SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH CITIZENS ENERGY GROUP REQUIREMENTS.

UTILITY NOTES:

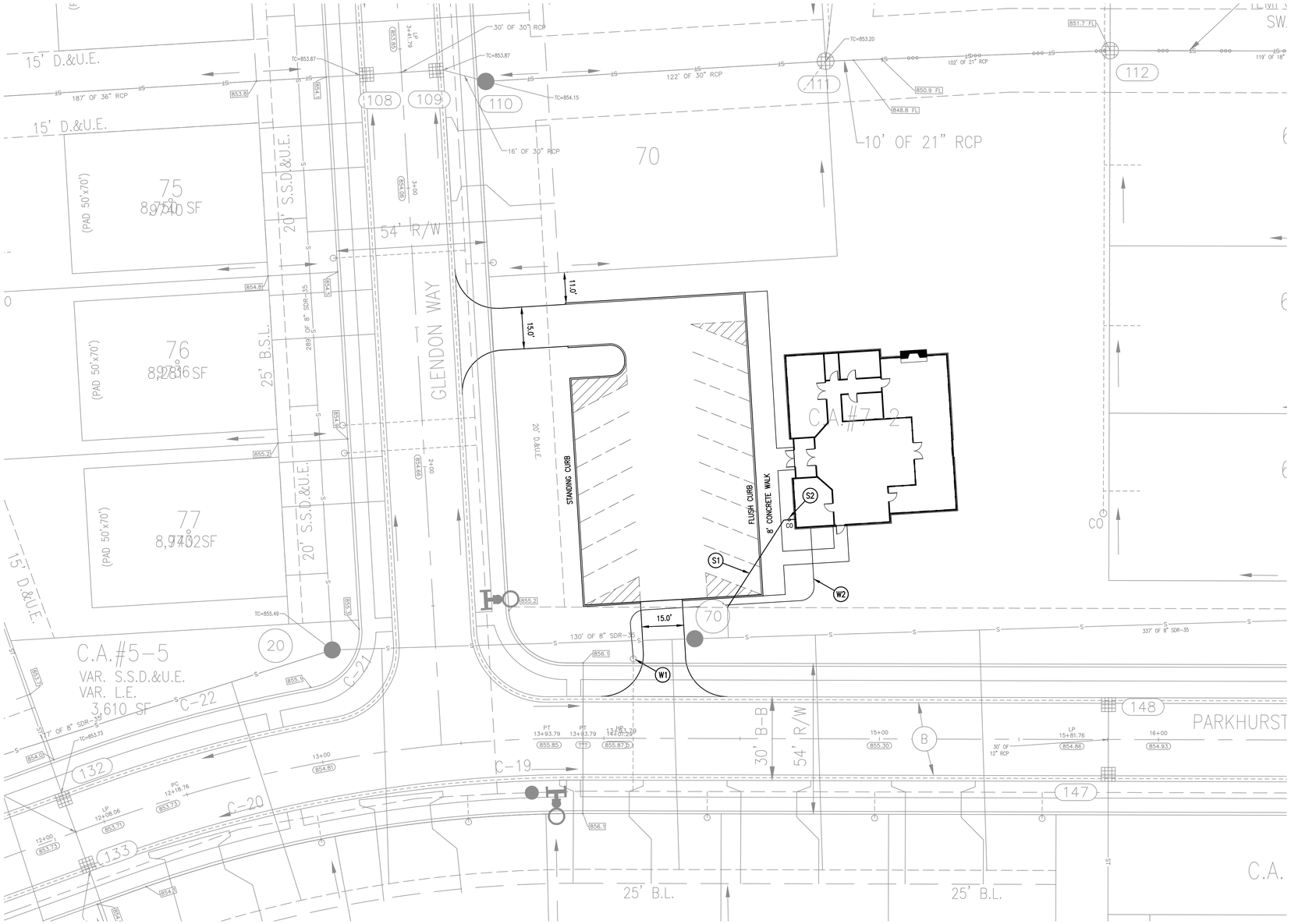
1. THE PROPOSED BUILDINGS SHALL BE CONSTRUCTED ACCORDING TO ARCHITECTURAL CONSTRUCTION PLANS.

REFER TO ARCHITECTURAL PLANS FOR ALL INFORMATION REGARDING UTILITY LAYOUT AND DETAILS WITHIN THE BUILDING AND EXTENDING OUT 5' FROM EXTERIOR FACE OF BUILDING. ALL MEP DESIGN AND COORDINATION IS THE RESPONSIBILITY OF ARCHITECT/CONTRACTOR. SITE WORK CONTRACTOR TO COORDINATE WITH ALL TRADES PRIOR TO START OF WORK.

2. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR INFORMATION..

3. ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS INCLUDING SIDEWALKS SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDOT STANDARD SPECIFICATIONS, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL SHALL EXTEND 5 FEET BEYOND THE LIMITS OF THE PAVED AREAS AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.

4. ALL WATER SERVICE AND SANITARY LINES SHALL BE IN CONFORMANCE WITH APPLICABLE INDIANA STATE DEPARTMENT OF HEALTH REGULATIONS AND GUIDELINES.



GRAPHIC SCALE

0' 20' 40' 60'

(IN FEET)

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C.A.	COMMON AREA
R/W	PUBLIC RIGHT OF WAY
D.&L.M.A.E.	DRAINAGE & LANDSCAPE, MAINTENANCE ACCESS EASEMENT

SITE UTILITY PLAN KEYNOTES:

(#) (NOT ALL KEY NOTES APPLY TO THIS SHEET)

SANITARY SEWER

S1. 6" SDR35 SANITARY LATERAL AT 1.0% MIN SLOPE (2% PREFERRED). LATERAL SEWER CLEANOUT WITHIN 3' OF BUILDING. CONTRACTOR TO NOTIFY ENGINEER IF FIELD CONDITIONS DIFFER PRIOR TO CONSTRUCTION. COORDINATE LOCATION WITH ARCHITECTURAL PLANS

S2. SANITARY LATERAL CLEANOUT.

WATER SERVICE

W1. CONNECT TO EXISTING 1" WATER METER PIT.
W2. 1" DOMESTIC WATER SERVICE LINE. 105 LF

ELECTRIC SERVICE (TO BE DETERMINED, ITEMS NOT SHOWN)

TELECOMMUNICATIONS (TO BE DETERMINED, IF REQUIRED: ITEMS NOT SHOWN)

GAS SERVICE (TO BE DETERMINED, IF REQUIRED: ITEMS NOT SHOWN)

SANITARY SEWER NOTES:

1. THE SANITARY SEWER SHALL MEET THE REQUIREMENTS OF THE TOWN OF MCCORDSVILLE AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) AND INDIANA STATE DEPARTMENT OF HEALTH FOR SANITARY SEWER COLLECTION SYSTEMS. SANITARY SEWER LATERAL TO BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) SDR-35 PIPE. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL MADE INTEGRAL WITH THE PIPE. SANITARY SEWERS SHALL BE SDR-26 PIPE FOR DEPTHS OF 15 FT OR GREATER.

2. SANITARY SEWER LATERALS FOR BUILDING CONNECTIONS SHALL BE 6" DIAMETER PVC SDR-35, LAID AT A MINIMUM SLOPE OF 1.00%.

4. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).

5. TRENCHES UNDER PAVED AREAS (EXCLUDING SIDEWALKS) SHALL BE BACKFILLED WITH GRANULAR MATERIAL PER INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", CURRENT EDITION, SECTION 211, AND COMPACTED IN LIFTS. GRANULAR MATERIAL SHALL EXTEND 5 FT BEYOND THE LIMITS OF THE PAVED AREA WITH A 1:1 OUTWARD SLOPE TO THE BOTTOM OF THE TRENCH.

6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND THE PIPE INVERT DEPTH WHERE THE PROPOSED CONNECTION IS MADE TO THE EXISTING SANITARY SEWER. VERTICAL DEVATIONS GREATER THAN 0.1 FT. AND HORIZONTAL DEVIATIONS GREATER THAN 1.0 FT. SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION AT THAT LOCATION.

7. MANHOLE OR CLEAN-OUT CASTINGS MAY NEED TO BE ELEVATED AFTER FINAL GRADING TO INSURE DRAINAGE AWAY FROM STRUCTURES.

PREPARED BY:

HWC ENGINEERING
135 N. PENNSYLVANIA ST., SUITE 2800
INDIANAPOLIS, IN 46204
P: 317-347-3663

REVISIONS

DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
SEC. 7 AMENITY AREA
UTILITY PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

KRISTOPHER K. EICHHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

Kristopher K. Eichhorn

DRAWN BY	JOB NUMBER 2019-003-A
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CHECKED BY	
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DATE	
MARCH 2022	
SCALE	
AS SHOWN	
SHEET	
C1.6	
UTILITY PLAN	

Plot Date: Aug 22, 2022 Plot Time: 4:44pm File Name: W:\calatlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A_Grading & Utility Plan.dwg, Layout: C1.6 By: kelchhorn

STORMWATER POLLUTION PREVENTION PLAN INDEX

A1	PLAN INDEX	SEE COVER SHEET C1.0
A2	11X17 PLAT	PROVIDED IN OVERALL SUBMITTAL.
A3	PROJECT TYPE	THIS PROJECT IS: MCCORD POINTE AMENITY AREA.
A4	VICINITY MAP	SEE SHEET C1.0
A5	LEGAL DESCRIPTION	SEE SHEET C1.1 FOR LEGAL DESCRIPTION. THE LATITUDE IS 39°55'35" N AND LONGITUDE IS 85°54'19" W.
A6	SITE IMPROVEMENTS	SEE SHEET C1.1.
A7	14 DIGIT HYDROLOGIC UNIT CODE	05120201100150
A8	STATE OR FEDERAL WATER QUALITY PERMITS	IDEM RULE 5
A9	POINTS WHERE STORMWATER WILL DISCHARGE SITE	STORMWATER FROM LAKE 1 OUTLETS TO AN EXISTING SWALE NORTH OF 96TH STREET, IN HAMILTON COUNTY, WHICH ULTIMATELY DRAINS NORTH TO THE BEE CAMP CREEK DRAIN WHICH OUTLETS INTO GEIST RESERVOIR.
A10	LOCATION OF WETLANDS, LAKES, WATER COURSES ADJACENT TO SITE	DELINEATED ON PLANS.
A11	RECEIVING WATERS	BEE CAMP CREEK DRAIN TO GEIST RESERVOIR.
A12	IDENTIFICATION OF POTENTIAL DISCHARGE TO GROUNDWATER	NONE
A13	100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOOD FRINGES	NONE
A14	PRE CONSTRUCTION AND POST CONSTRUCTION PEAK DISCHARGE	10-YR ALLOWABLE RELEASE RATE: 0.50 CFS 10-YR POST CONSTRUCTION RATE: 0.49 CFS
A15	ADJACENT LAND USES	SEE SHEET C1.1 NORTH: RESIDENTIAL LOTS EAST: RESIDENTIAL LOTS SOUTH: RESIDENTIAL LOTS WEST: AGRICULTURAL
A16	LOCATIONS AND BOUNDARIES OF DISTURBED AREAS	SEE SHEETS C1.3
A17	IDENTIFICATION OF EXISTING VEGETATIVE COVER	SEE SHEETS C1.3
A18	SOILS MAP	SEE SHEET C1.0
A19	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED STORMWATER SYSTEM	NONE
A20	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED OFFSITE CONSTRUCTION ACTIVITIES	NONE
A21	LOCATION OF SOIL STOCKPILE	NONE
A22	EXISTING SITE TOPOGRAPHY	SEE SHEETS C1.3.
A23	PROPOSED SITE TOPOGRAPHY	SEE SHEETS C1.2
B1	POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	ERODED SOILS AND SEDIMENTS; OILS, GREASES, COOLANTS, CONCRETE WASHOUT, PETROLEUM FUELS AND OTHER FLUIDS ASSOCIATED WITH OPERATION AND MAINTENANCE OF CONSTRUCTION EQUIPMENT PRESENT ON THE SITE; DEBRIS INCLUDING CUTTINGS, SEALANTS, ADHESIVES, AND COATINGS ASSOCIATED WITH INSTALLATION OF UNDERGROUND PIPES, INFRASTRUCTURE AND CONSTRUCTION OF THE BUILDING; PAINTS ASSOCIATED WITH PAVEMENT MARKING; FERTILIZERS ASSOCIATED WITH SEEDING AND PLANTING.
B2	SCHEDULE OF STORMWATER QUALITY MEASURES RELATED TO LAND DISTURBING ACTIVITIES	STORMWATER POLLUTION PREVENTION PLAN HAS BEEN DEVELOPED TO ELIMINATE SEDIMENT FROM LEAVING THE PROJECT DURING CONSTRUCTION ACTIVITIES PROTECTING ADJOINING PROPERTIES AND THE RECEIVING WATERS.

PRE-CONSTRUCTION SCHEDULE

The following local regulation, ordinances and requirements have been included for reference and are not intended to be enforceable by federal governments but may be enforceable by state governments. (Local Qualified or State Delegated Programs)

1 CONTRACTOR TO CALL INDIANA UNDERGROUND 811 BY CALLING 811 OR 800-382-5544 TO VERIFY LOCATION OF EXISTING UTILITIES TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION.

2 CONTRACTOR SHALL INSTALL STONE CONSTRUCTION ENTRANCE PRIOR TO THE START OF EARTHWORK IN ACCORDANCE WITH THE PLAN LOCATION ON SHEETS C1.3 AND C1.7.

3 CONTRACTOR TO INSTALL RULE 5 INFORMATION POSTING, TRASH DUMPSTER, AND PORT-O-LET AS SHOWN ON SHEETS C1.3 AND C1.4.

4 CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCE AROUND THE PERIMETER OF THE IMMEDIATE PHASE (SECTION) AS WELL AS THE LIMITS OF OFFSITE GRADING PRIOR TO ANY EARTHWORK ACTIVITIES SUCH AS EARTH MOVING OR STRIPPING.

5 CONTRACTOR SHALL INSTALL CONCRETE WASHOUT AREA AND CONSTRUCTION STAGING AREA PRIOR TO THE START OF EARTHWORK ACTIVITIES AS SHOWN ON SHEETS C1.2 AND C1.3.

6 CONTRACTOR TO EVALUATE LOCATION OF SOIL STOCKPILE AREAS AND PREPARE BY PLACING SILT FENCE DEFINING LIMITS. SEE SHEETS C1.3 AND C1.4.

7 ONCE PERIMETER ELEMENTS ARE INSTALLED, ANY UTILITY MODIFICATION OR RELOCATION PER SHEETS C1.1 CAN COMMENCE IN FINAL PREPARATION FOR MASS EARTHWORK OPERATIONS. ALL INTERIM FLOW REQUIREMENTS SUCH AS TEMPORARY SEDIMENT BASINS AND TEMPORARY DIVERSION SWALES SHALL BE COMPLETED PRIOR TO MASS EARTHWORK OPERATIONS. THESE MEASURES SHALL BE MAINTAINED AND ADJUSTED AS NEEDED UNTIL COMPLETION OF MASS EARTHWORK. EROSION CONTROL ADJUSTMENTS DURING DIFFERENT PHASES OF CONSTRUCTION LIKELY REQUIRED AND SUBJECT TO WEATHER CONDITIONS.

CONSTRUCTION SCHEDULE

8 BEGIN CLEARING AND GRADING ACTIVITIES AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND ITEMS 1-7 OF THE PRE-CONSTRUCTION SCHEDULE ARE COMPLETE. EARTHMOVING SHALL BE DONE IN A MANNER TO MINIMIZE EROSION. CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER AND UTILITY CONNECTION LOCATIONS AND ELEVATION PRIOR TO MOVING EARTH, CONTACT ENGINEER WITH ANY DISCREPANCIES. AS GRADING PROGRESSES, INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO CONTAIN SEDIMENT ON SITE.

9 CONTRACTOR SHALL STRIP TOPSOIL AND GRADE THE SITE PER PLAN AND PLACE PERMANENT AND TEMPORARY SEED AS INDICATED ON THE PLAN, INCLUDING SEEDING WITH FIBER BLANKET ON MOUNDS, POND BANKS, SWALES. DURATION OF EXPOSED AREAS SHALL BE KEPT MINIMAL DEPENDANT ON WEATHER, ALL POTENTIALLY IDLE AREAS FOR 15 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED PER IDEM RULE 5.

10 INSTALL SANITARY SEWERS

11 INSTALL STORM SEWER SYSTEM, SUBSURFACE DRAINAGE SYSTEM, AND SWALES. ALL STORM SEWER INLET PROTECTION AND OUTFALL RIP RAP SHALL BE INSTALLED AT THE TIME EACH INLET IS CONSTRUCTED PER SHEETS C1.5-C1.6.

12 PERMANENT AND FINAL VEGETATION, IN ADDITION TO STRUCTURAL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL PER SHEET C1.5-C1.6.

13 CONTRACTOR SHALL INSTALL REMAINING UTILITIES AND RE-SEED ALL DISTURBED AREAS.

14 CONTRACTOR SHALL INSTALL ALL STREETS AS INDICATED ON PLANS.

15 INSTALL LOT SPECIFIC BMPs INCLUDING WASTER RECEPTACLES, CURB LINE BMPs, WASHOUTS, AND STABILIZED ENTRANCES.

16 BUILDING FOUNDATION EXCAVATIONS

17 VERTICAL CONSTRUCTION AND HOME BUILDING

18 INSTALL PERMANENT OR TEMPORARY SOIL STABILIZATION AND LANDSCAPING

19 CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AND UNTIL SEDIMENTATION OF STREETS AND STORM SEWERS NO LONGER OCCURS. CONTRACTOR SHALL INSPECT ON A WEEKLY BASIS OR AFTER A SIGNIFICANT STORM EVENT. SEE SHEETS C8.0-C8.1 FOR DETAILS AND SPECIFICATIONS.

20 COMPLETE FINAL GRADING AND INSTALL SEEDING AND LANDSCAPING (IF APPLICABLE). STABILIZE ALL REMAINING EXPOSED AREAS AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.

21 ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH INDIANA 327 IAC 15-5 AND RULE #5.

B3	STABLE CONSTRUCTION ENTRANCE LOCATION AND SPECIFICATIONS	SEE SHEET C1.3-C1.5, C8.0-C8.1
B4	SEDIMENT CONTROL FOR SHEET FLOW AREAS	EE SHEET C1.3-C1.5, C8.0-C8.1S
B5	SEDIMENT CONTROL FOR CONCENTRATED FLOW AREAS	SEE SHEET C1.3-C1.5, C8.0-C8.1
B6	STORM SEWER PROTECTION MEASURES, LOCATIONS, SPECIFICATIONS	SEE SHEET C1.3-C1.5, C8.0-C8.1
B7	RUNOFF CONTROL MEASURES	SEE SHEET C1.3-C1.5, C8.0-C8.1
B8	STORMWATER OUTLET PROTECTION	SEE SHEET C1.3-C1.5, C8.0-C8.1
B9	GRADE STABILIZATION STRUCTURES	SEE SHEET C1.3-C1.5, C8.0-C8.1
B10	LOCATION, DIMENSION, SPECIFICATIONS AND DETAILS FOR STORMWATER QUALITY MEASURES	SEE SHEET C1.3-C1.5, C8.0-C8.1
B11	TEMPORARY SURFACE STABILIZATION FOR EACH SEASON	SEE SHEET C1.3-C1.5, C8.0-C8.1
B12	PERMANENT SURFACE STABILIZATION	SEE SHEET C1.3-C1.5, C8.0-C8.1
B13	MATERIAL HANDLING AND SPILL PREVENTION PLAN	THE CONTRACTOR SHALL PROVIDE A STONE SURFACE MATERIAL STAGING AREA. ALL LIQUID MATERIAL SHALL BE STORED IN A WEATHER-PROOF, VANDALISM RESISTANT ENCLOSURE OR REMOVED FROM THE SITE DURING NON-WORK HOURS. AN ON-SITE FUELING AREA SHALL BE DESIGNATED AWAY FROM DRAINAGE CHANNELS AND INLETS THAT WOULD PERMIT THE RAPID MOVEMENT OF SPILLED FUEL TO ADJACENT WATERWAYS. IF MORE THAN 200 GALLONS OF FUEL IS STORED ON-SITE, APPROPRIATE TEMPORARY CONTAINMENT FACILITIES SHALL BE INSTALLED TO PREVENT MIGRATION OF SPILLS. ALL MATERIALS SHALL BE HANDLED, APPLIED, AND DISPOSED OF IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ANY ACCIDENTS AND SPILLS MUST BE IMMEDIATELY REPORTED TO INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE AT (317) 233-7745. CONTACT CITY FIRE AND POLICE DEPARTMENT BY DIALING 911. CLEAN UP MEASURES SHALL BE APPROVED AND AUTHORIZED BY INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
B14	MONITORING AND MAINTENANCE OF POLLUTION PREVENTION MEASURES	SEE SHEET C1.3-C1.5, C8.0-C8.1
B15	EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS	SEE SHEET C8.0-C8.1
C1	DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE	POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH A SINGLE FAMILY RESIDENTIAL PROJECT INCLUDE, BUT ARE NOT LIMITED TO: VEHICULAR SOURCES SUCH AS LEAKING OIL, FUEL CONTAINERS, GREASE, BRAKE FLUID/DUST, WINDOW WASHER FLUID AND ANTIFREEZE. RUBBER FROM WEAR AND TEAR OF TIRES ON STREETS, GARBAGE FROM LITTERING, DEBRIS FROM LAWN SUCH AS MULCH AND LEAVES, HOME IMPROVEMENT MATERIALS SUCH AS PAINT AND CLEANING MATERIALS AND ELEVATED STORMWATER TEMPERATURES.
C2	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION	THE MOST SIGNIFICANT POST CONSTRUCTION POLLUTANT IS SOIL AND SEDIMENT DISCHARGE. THE POST CONSTRUCTION MEASURES USED TO MINIMIZE SEDIMENTATION IN WATERWAYS INCLUDE SWALES AND PONDS. THE SWALES WILL COLLECT RUNOFF FROM THE HOMES AND MAJORITY OF PAVEMENT. THE DESIGN OF THE SWALES WILL ALLOW SEDIMENT TO BE PARTIALLY INFILTRATED BEFORE STORMWATER ENTERS THE DESIGNED STORM SEWER SYSTEM. BEEHIVE INLETS WILL PREVENT LARGE ITEMS FROM ENTERING THE STORM PIPES AND LEAVING THE SITE. THE DETENTION BASINS WHICH ARE DESIGNED TO HAVE WATER IN IT AT ALL TIMES, WILL ALSO HELP REDUCE SEDIMENT AND TRASH BY ALLOWING IT TO DROP OUT PRIOR TO LEAVING LEAVING THE SITE. INSPECTION AND MAINTENANCE OF INFRASTRUCTURE IMPROVEMENTS IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER UNTIL PROJECT COMPLETION.
C3	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES	THE PRIMARY POST CONSTRUCTION MEASURES ARE MASTER PLANNED PONDS AND WATER QUALITY SWALES TO ADDRESS WATER QUALITY LOCATED THROUGHOUT THE SANCTUARY AT STEEPLECHASE. SECONDARY TREATMENT MEASURES INCLUDE VEGETATED STRIPS OR GRASS FILTER STRIPS, SWALES, PERMANENT SEEDING AND PLANTINGS, OUTLET PROTECTION, AND ENERGY/VELOCITY DISSIPATION
C4	LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE	SEE SHEET C1.3-C1.5, C8.0-C8.1
C5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES	SEE BMP OPERATIONS AND MAINTENANCE MANUAL FOR THE SANCTUARY AT STEEPLECHASE SECTION 6. IN GENERAL, THE SANCTUARY AT STEEPLECHASE DEVELOPMENT HAS BEEN MASTER PLANNED WITH PONDS AND WATER QUALITY SWALES IN ORDER TO ADDRESS WATER QUALITY. SECONDARY TREATMENT SYSTEMS SUCH AS SWALES, AND ENERGY DISSIPATION SUCH AS RIP-RAP ARE PRESENT THROUGHOUT THE DEVELOPMENT. THE HOME OWNERS ASSOCIATION WLL MAINTAIN POST CONSTRUCTION CONTROLS/BMP'S AFTER FILING THE NOT.
C6	DUST CONTROL/OFFSITE VEHICLE TRACKING	DURING CONSTRUCTION WATER TRUCKS SHOULD BE USED, AS NEEDED, BY EACH CONTRACTOR OR SUBCONTRACTOR TO REDUCE DUST. CONSTRUCTION TRAFFIC SHOULD ENTER AND EXIT THE SITE AT A CONSTRUCTION ENTRANCE WITH A ROCK PAD OR EQUIVALENT DEVICE. THE PURPOSE OF THE ROCK PAD IS TO MINIMIZE THE AMOUNT OF SOIL AND MUD THAT IS TRACKED INTO EXISTING STREETS. IF SEDIMENT ESCAPES THE CONSTRICTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS.
C7	STREET CLEANING AND STREET SWEEPING	PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARING SHOULD BE DONE BY DRY SWEEPING OR VACUUM TECHNIQUES. FOR HARD TO REMOVE SEDIMENT OR OTHER MATERIALS, WATER SPRAYERS ATTACHED TO A VACUUM BASED STREET SWEEPER MAY BE USED AS LONG AS ALL WATER LADEN MATERIAL IS REMOVED FROM THE STREET BY THE VACUUM SYSTEM.

PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:

STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, LLC
Phone: (317) 659-3200

OWNERS INFORMATION

LENNAR HOMES OF INDIANA, LLC
11555 N. MERIDIAN ST., SUITE 400
CARMEL, IN 46032
Phone: (317) 659-3200
CONTACT: STUART HUCKELBERRY

INSPECTORS INFORMATION

STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, LLC
Phone: (317) 659-3200
Lennar SWPPP Certified
Responsible landscaper - temporary and permanent stabilization, along with erosion /sediment controls
stuart.huckelberry@lennar.com

SEE SWPPP BOOK FOR TRAINING OF LENNAR ASSOCIATE AND DELEGATION LETTER

THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

SEEDING SCHEDULE

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TEMPORARY SEEDING DATES												
												WHEAT OATS OR RYE
												PERENNIAL RYGRASS
			INCREASE APPLICATION RATES 50% FOR DORMANT SEEDING									DORMANT SEEDING
PERMANENT SEEDING DATES												
												NON-IRRIGATED
												IRRIGATED
			INCREASE APPLICATION RATES 50% FOR DORMANT SEEDING									DORMANT SEEDING

NOTES:
1. PERMANENT SEEDING INFORMATION SHOWN ON THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. IF THE LANDSCAPING PLANS AND SPECIFICATIONS CONTAIN INFORMATION CONCERNING PERMANENT LAWN SEEDING AND/OR SODDING, THEN THAT INFORMATION SHALL SUPERSEDE SIMILAR INFORMATION INDICATED ON THIS SHEET.
2. AREAS TO BE SEEDED SHALL BE SMOOTH AND UNIFORM AND SHALL BE IN ACCORDANCE WITH THE FINISHED GRADE AND CROSS SECTION SHOWN ON THE PLANS.
3. AREAS TO BE SEEDED SHALL HAVE A MINIMUM TOPSOIL DEPTH OF 6 INCHES. LIGHTLY COMPACT PLACED TOPSOIL BY ROLLING OR TAMPING.
4. PRIOR TO REPLACING TOPSOIL, LOOSEN SUBSOIL TO ENSURE GOOD BOND WITH TOPSOIL.
5. APPLY SEEDING WITH 800 LB/ACRE OF 12-12-12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.
6. APPLY TEMPORARY SEEDING WITH 200 LB/ACRE OF 12-12-12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.
7. ON SLOPES GRADED AT 3:1 OR STEEPER, STRAW MULCH SHALL BE HELD IN PLACE WITH POLYMERIC PLASTIC NET TACKED WITH WIRE STAPLES, OR EQUIVALENT METHOD.
8. SEED MIXTURES AND APPLICATION RATES:
   GRASS MIX APPLIED AT 170 LB/ACRE (4 LB/1000 SQ.FT.) COMPRISED OF THE FOLLOWING:
   KENTUCKY 31 FESCUE - 95 LB/ACRE
   PERENNIAL RYEGRASS - 65 LB/ACRE
   JASPER RED FESCUE - 10 LB/ACRE

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
MCCORDSVILLE, INDIANA

SWPPP NOTES

PRELIMINARY
NOT FOR CONSTRUCTION

KRISTOPHER K. EICHHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY TD/GM	JOB NUMBER 2019-003-A
CHECKED BY KE	
DATE MARCH 2022	
SCALE AS SHOWN	
SHEET	

C8.0
SWPPP NOTES

SITE ACCESS & PREPARATION

Temporary Construction Ingress/Egress Pad (Large Sites—Two Acres or Larger)

*A **temporary construction ingress/egress pad** is a sediment control measure consisting of a stabilized aggregate pad with geotextile underlayment that is used at any point where construction traffic will be traversing between a large construction site and adjoining public right-of-way, street, alley, sidewalk, or parking areas.*

Purpose

To provide ingress/egress to a construction site and minimize tracking of mud and sediment onto public roadways.

Specifications

Location

- Avoid locating on steep slopes or at curves in public roads.

Dimensions

- Width 20 feet minimum or full width of entrance/exit roadway, whichever is greater.
- Length 150 feet minimum (length can be shorter for small sites).
- Thickness eight inches minimum.

Washing Facility (optional)

- Level area with three inch, or larger, washed aggregate or install a commercial wash rack.
- Divert waste water to a sediment trap or basin.

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

Materials

- One to two and one-half inch diameter washed aggregate [Indiana Department of Transportation Course Aggregate No. 2 (see Appendix D)].
- One-half to one and one-half inch diameter washed aggregate [INDOT CA No. 53 (see Appendix D)].
- Geotextile fabric underlayment (see Appendix C) (used as a separation layer to prevent intermixing of aggregate and the underlying soil material and to provide greater bearing strength when encountering wet conditions or soils with a seasonal high water table limitation).

Installation

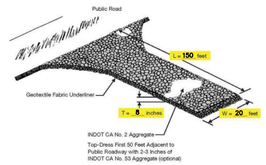
1. Remove all vegetation and other objectionable material from the foundation area.
2. Grade foundation and crown for positive drainage. If the slope of the construction entrance is toward a public road and exceeds two percent, construct an eight inch high diversion ridge with a ratio of 3-to-1 side slopes across the foundation area about 15 feet from the entrance to divert runoff away from the road (see Temporary Construction Ingress/Egress Pad Cross-Section View Worksheet).
3. Install a culvert pipe under the pad if needed to maintain proper public road drainage.
4. If wet conditions are anticipated, place geotextile fabric on the graded foundation to improve stability.
5. Place aggregate (INDOT CA No. 2) to the dimensions and grade shown in the construction plans, leaving the surface smooth and sloped for drainage.
6. Top-dress the first 50 feet adjacent to the public roadway with two to three inches of washed aggregate (INDOT CA No. 53) [optional, used primarily where the purpose of the pad is to keep soil from adhering to vehicle tires].
7. Where possible, divert all storm water runoff and drainage from the ingress/egress pad to a sediment trap or basin.

Maintenance

- Inspect daily.
- Reshape pad as needed for drainage and runoff control.
- Top dress with clean aggregate as needed.
- Immediately remove mud and sediment tracked or washed onto public roads.
- Flushing should only be used if the water can be conveyed into a sediment trap or basin.

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)



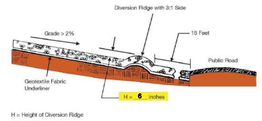
L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

(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

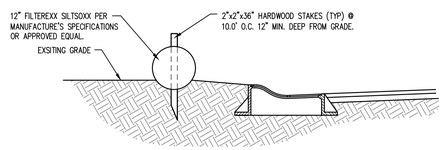
TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD (LARGE SITES—TWO ACRES OR LARGER)

Temporary Construction Ingress/Egress Pad
Cross-Section View Worksheet
(large sites two acres or larger)



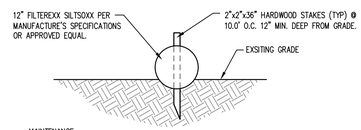
H = Height of Diversion Ridge
(Note: 8 inches minimum)

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



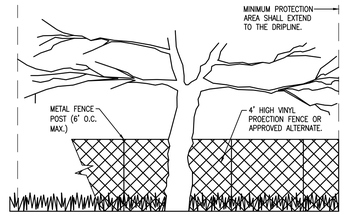
MAINTENANCE:
- INSPECT DAILY
- REMOVE ACCUMULATED SEDIMENT FROM PAVED AREA (DO NOT FLUSH WITH WATER) AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- INSPECT FOR DAMAGE BY VEHICULAR TRAFFIC AND REPAIR IF NEEDED.

COIR LOG (FIBER ROLL) ALONG CURB
NOT TO SCALE

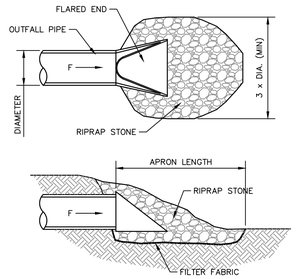


MAINTENANCE:
- INSPECT DAILY
- REMOVE ACCUMULATED SEDIMENT FROM PAVED AREA (DO NOT FLUSH WITH WATER) AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- INSPECT FOR DAMAGE BY VEHICULAR TRAFFIC AND REPAIR IF NEEDED.

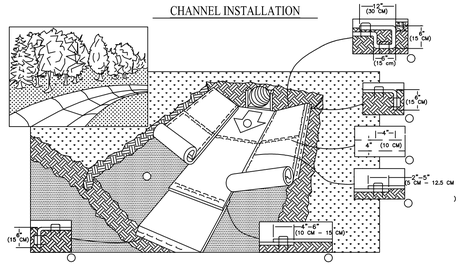
COIR LOG (FIBER ROLL.)



TREE PROTECTION DETAIL
NOT TO SCALE

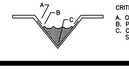


CHANNEL INSTALLATION



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP's.
3. ROLL CENTER RECP's IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM®, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE RECP's END OVER END (SHINGLE STYLE) WITH A 4" – 6" (10 CM –15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP's.
5. FULL LENGTH EDGE OF RECP's AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT RECP's MUST BE OVERLAPPED APPROXIMATELY 2" – 5" (5 CM –12.5 CM) (DEPENDING ON RECP's TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M – 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE RECP's MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.



CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

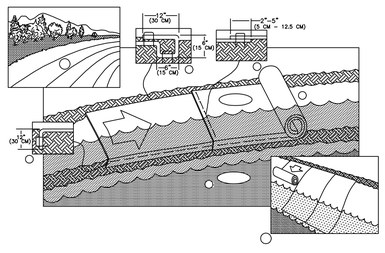
NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

EROSION CONTROL BLANKET

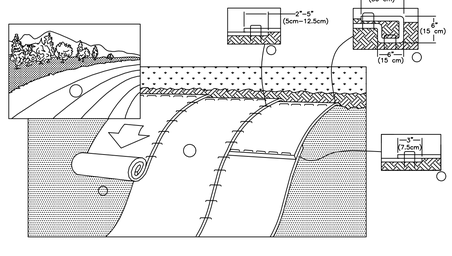
MAINTENANCE REQUIREMENTS:
- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

SHORELINE INSTALLATION



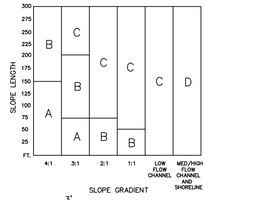
1. FOR EASIER INSTALLATION, LOWER WATER FROM LEVEL A TO LEVEL B BEFORE INSTALLATION.
2. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPERSIDE DOWN.
3. BEGIN AT THE TOP OF THE SHORELINE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BACK OVER SEED AND COMPACTED SOIL. SECURE OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
4. ROLL RECP's EITHER (A.) DOWN THE SHORELINE FOR LONG BANKS, (TOP TO BOTTOM) OR (B.) HORIZONTALLY ACROSS THE SHORELINE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM®, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
5. THE EDGES OF ALL HORIZONTAL AND VERTICAL SEAMS MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP.
   NOTE:
   * SEAM OVERLAP SHOULD BE SHINGLED ACCORDING TO PREDOMINANT EROSIVE ACTION.
6. THE EDGE OF THE BLANKET AT OR BELOW NORMAL WATER LEVEL MUST BE ANCHORED BY PLACING THE STAPLES/STAKES IN A 12" (30 CM) DEEP X 6" (15 CM) WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL).
   NOTE:
   * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

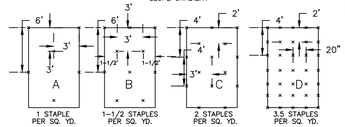
SLOPE INSTALLATION



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM®, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS WILL VARY DEPENDING UPON SLOPE LENGTH, SLOPE GRADE, SOIL TYPE AND AVERAGE ANNUAL RAINFALL.





EROSION CONTROL BLANKET
STAPLE PATTERN GUIDE
NOT-TO-SCALE

SEEDING SCHEDULE

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TEMPORARY SEEDING DATES												
												WHEAT OATS OR RYE.
												PERENNIAL RYGRASS
			INCREASE APPLICATION RATES 50% FOR DORMANT SEEDING									DORMANT SEEDING
PERMANENT SEEDING DATES												
												NON-IRRIGATED
												IRRIGATED
			INCREASE APPLICATION RATES 50% FOR DORMANT SEEDING									DORMANT SEEDING

NOTES:
1. PERMANENT SEEDING INFORMATION SHOWN ON THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. IF THE LANDSCAPING PLANS AND SPECIFICATIONS CONTAIN INFORMATION CONCERNING PERMANENT LAWN SEEDING AND/OR SODDING, THEN THAT INFORMATION SHALL SUPERSEDE SIMILAR INFORMATION INDICATED ON THIS SHEET.
2. AREAS TO BE SEEDED SHALL BE SMOOTH AND UNIFORM AND SHALL BE IN ACCORDANCE WITH THE FINISHED GRADE AND CROSS SECTION SHOWN ON THE PLANS.
3. AREAS TO BE SEEDED SHALL HAVE A MINIMUM TOPSOIL DEPTH OF 6 INCHES. LIGHTLY COMPACT PLACED TOPSOIL BY ROLLING OR TAMPING.
4. PRIOR TO REPLACING TOPSOIL, LOOSEN SUBSOIL TO ENSURE GOOD BOND WITH TOPSOIL.
5. APPLY SEEDING WITH 800 LB/ACRE OF 12–12–12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.
6. APPLY TEMPORARY SEEDING WITH 200 LB/ACRE OF 12–12–12 FERTILIZER AND MULCH WITH A CONTINUOUS BLANKET OF STRAW AT A RATE OF 2 TONS/ACRE, OR USE HYDROSEEDING TECHNIQUES WITH EQUIVALENT APPLICATION RATES.
7. ON SLOPES GRADED AT 3:1 OR STEEPER, STRAW MULCH SHALL BE HELD IN PLACE WITH POLYMERIC PLASTIC NET TACKED WITH WIRE STAPLES, OR EQUIVALENT METHOD.
8. SEED MIXTURES AND APPLICATION RATES:
   GRASS MIX APPLIED AT 170 LB/ACRE (4 LB/1000 SQ.FT.) COMPRISED OF THE FOLLOWING:
   KENTUCKY 31 FESCUE – 95 LB/ACRE
   PERENNIAL RYEGRASS – 65 LB/ACRE
   JASPER RED FESCUE – 10 LB/ACRE

THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:

STUART HUCKELBERRY

LENNAR HOMES OF INDIANA, LLC

Phone: (317) 659-3200

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

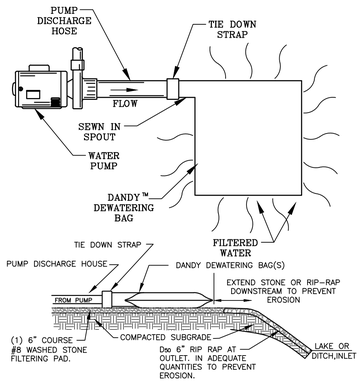
MCCORD POINTE
MCCORDSVILLE, INDIANA
SWPPP DETAILS

PRELIMINARY
NOT FOR CONSTRUCTION
CHRISTOPHER K. LICHTHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	JOB NUMBER 2019-003-A
TD/GM	
CHECKED BY	
KE	
DATE	
MARCH 2022	
SCALE	
AS SHOWN	
SHEET	

C8.1
SWPPP DETAILS

Plot Date: Aug 22, 2022 Plot Time: 4:52pm File Name: W:\coldtlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\1926 3-A SWPP Notes and Details.dwg, Layout: C8.1 By: keichhorn



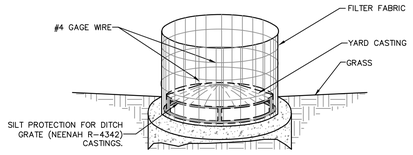
DANDY DEWATERING BAG

NOT-TO-SCALE

DANDY DEWATERING BAG™
SPECIFICATIONS

NOTE: THE DANDY DEWATERING BAG™ WILL BE **MANUFACTURED IN THE U.S.A.** FROM A NONWOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.9 (205) x 0.9 (205)
Grab Tensile Elongation	ASTM D 4632	%	50 x 50
Puncture Strength	ASTM D 4833	kN (lbs)	0.58 (130)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2618 (380)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.36 (80) X 0.36 (80)
UV Resistance	ASTM D 4355	%	70
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.180 (80)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	3866 (95)
Permittivity	ASTM D 4491	Sec⁻¹	1.2



MAINTENANCE
1. INSPECT THE DROP INLET PROTECTION AFTER EACH STORM EVENT, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. REMOVE SEDIMENT FROM THE POOL AREA TO ENSURE ADEQUATE RUNOFF STORAGE FOR THE NEXT RAIN.
3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ALL BARRELS, CONSTRUCTION MATERIAL, AND SEDIMENT AND DISPOSE OF PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE TOP OF THE INLET AND STABILIZE.

Drop Inlet Protection Basket

It is the intent of this device to detain water for the purpose of allowing suspended solids in the water to settle out before the water enters the storm structure. Some filtering will occur as water passes through the device.
The bottom of this device is to seal against the flat outer part of the casting. The overall dimension of the basket shall be no smaller than the water inlet perforations in the casting and no larger than the outer dimensions of the casting. The height shall be 13"
The basket frame shall be welded wire mesh rolled or bent and welded to itself to fit the casting. The wire size shall be no smaller than .149" dia. and openings no larger than 18 sq in. It is important that the bottom of the wire frame be smooth so as not to allow any leakage between the basket and casting. The top of the basket shall be open to prevent flooding during heavy storm events.
Fabric shall be woven polypropylene allowing 15-25gal/min/sq in. If non-woven fabric is used, the maintenance intervals should be increased to replace silt laden fabric. The fabric shall be attached to the frame and folded under the bottom to help seal against the casting.
This device should be used in conjunction with other Best Management Practices to maximize the efficiency of the erosion control plan.
Suppliers for this product include: Lakeside Supply Inc. (317) 281-2661, Turfgrass Inc (317) 894-3276.

BEEHIVE PROTECTION DETAIL

NOT-TO-SCALE

Location

- At curb inlets on paved roads and parking lots.
- Down grade from construction activities (e.g., individual home sites).

Materials

- Metal frame or basket with a top width and length such that the frame fits into the inlet. (The frame is supported by the structural integrity of the storm sewer.)
- The metal frame or geotextile should be designed with a bypass to allow storm water to flow into the storm sewer system during excessive storm events.
- The system should be designed for ease of maintenance.
- Geotextile fabric.

Table 1. Geotextile Fabric Specifications

Physical Property	Woven	Non-Woven
Filtering Efficiency	85%	85%
UV Resistance (inhibitors and stabilizers to ensure six month minimum life at temperatures of 0° F to 120° F)	70%	85%
Tensile Strength at 20% Elongation: Standard Strength	30 lbs./linear inch	50 lbs./linear inch
Extra Strength	50 lbs./linear inch	70 lbs./linear inch
Slurry Flow Rate	0.3 gal./min./sq. ft.	4.5 gal./min./sq. ft.
Water Flow Rate	15 gal./min./sq. ft.	220 gal./min./sq. ft.

Installation

1. Remove the storm sewer grate and place the frame into the grate opening.
2. Place geotextile fabric into the frame and secure according to the manufacturer's recommendations.
3. Replace the storm sewer grate.

Maintenance

- Inspect daily.
- Remove accumulated sediment and debris after each storm event. Deposit sediment in an area where it will not re-enter the paved area or storm drains.
- Replace or clean geotextile fabric as needed.
- When the contributing drainage area has been stabilized, remove inlet protection.

Materials

- Support posts
  - 2 x 2 inch or 2 x 4 inch hardwood posts.
  - Three feet length, minimum.
- 1 x 2 inch or 1 x 3 inch hardwood cross bracing lumber.
- Lathe.
- Staples or nails.
- Geotextile fabric

Table 1. Geotextile Fabric Specifications

Physical Property	Woven	Non-Woven
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Water Flow Rate	15 gal./min./sq. ft.	220 gal./min./sq. ft.

Installation

(see Exhibits 1 and 2)

1. Dig an eight-inch deep, four-inch wide trench around the perimeter of the inlet.
2. If using pre-assembled geotextile fabric and posts, drive the posts into the soil, tightly stretching the geotextile fabric between posts as each is driven. (Posts must be placed on the inlet side of the anchor trench with the geotextile fabric on the side of the trench farthest from the inlet.)

   Note: If assembling the geotextile fabric and posts on-site, drive the posts into the soil and then secure the geotextile fabric to the posts by placing a piece of lathe over the fabric and fastening it to the post (stretching the fabric between posts as it is fastened).

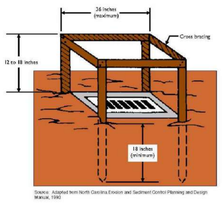
3. Use the wrap join method when joining posts (see **Silt Fence** on page 215).
4. Place the bottom 12 inches of geotextile fabric into the eight-inch deep trench, laying the remaining four inches in the bottom of the trench and extending away from the inlet.
5. Backfill the trench with soil material and compact it in place.
6. Brace the posts by nailing braces into each corner post or utilize rigid panels to support fabric.

   Note: **In situations where storm water may bypass the structure, either:**
   - Set the top of the geotextile fabric filter at least six inches lower than the ground elevation on the down-slope side of the storm drain inlet,
   - Build a temporary dike, compacted to six inches higher than the fabric, on the down-slope side of the storm drain inlet, AND/OR
   - Use in conjunction with excavated drop inlet protection (see **Excavated Drop Inlet Protection** on page 145).

Maintenance

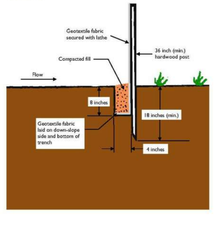
- Inspect daily.
- Inspect geotextile fabric and make needed repairs immediately.
- Remove sediment from pool area to provide storage for the next storm event. Avoid damaging or undercutting fabric during sediment removal.
- When contributing drainage area has been stabilized, remove sediment, properly dispose of all construction material, grade area to the elevation of the storm drain inlet top, then stabilize immediately.

Exhibit 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1990

Exhibit 2



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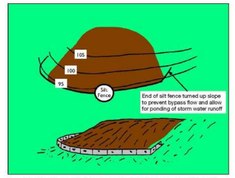


Source: Adapted from Commonwealth of Pennsylvania Erosion and Sediment Pollution Control Manual, 1990

Exhibit 2

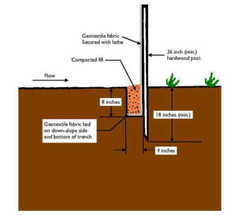
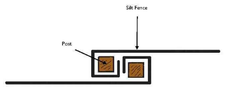


Exhibit 3



*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.*

Purpose

To trap sediment from small, disturbed areas by reducing the velocity of sheet flow. Silt fences capture sediment by ponding water to allow deposition, not by filtration.

Note: **Silt fence is not recommended for use as a diversion and should not be used across a stream, channel, ditch, swale, or anywhere that concentrated flow is anticipated.**

Specifications

Drainage Area

- Limited to one-quarter acre per 100 linear feet of fence.
- Further restricted by slope steepness (see Table 1).

Effective Life

Six months (maximum).

Location

- Installed parallel to the slope contour.
- Minimum of 10 feet beyond the toe of the slope to provide a broad, shallow sediment pool.
- Accessible for maintenance (removal of sediment and silt fence repair).

Spacing

Table 1. Slope Steepness Restrictions

Percent Slope		Maximum Distance
< 2%	< 50:1	100 feet
2% – 5%	50:1 to 20:1	75 feet
5% – 10%[1]	20:1 to 10:1	50 feet
10% – 20%[1]	10:1 to 5:1	25 feet
> 20%[1]	> 5:1	15 feet

[1] Consider other alternatives.
Note: Multiple rows of silt fence are not recommended on the same slope.

Trench

- Depth – eight inches minimum.
- Width – four inches minimum.
- After installing fence, backfill with soil material and compact (to bury and anchor the lower portion of the fence fabric).

Note: **An alternative to trenching is to use mechanical equipment to plow in the silt fence.**

Materials and Silt Fence Specifications

- Fabric – woven or non-woven geotextile fabric meeting specified minimums outlined in Table 2.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric
Filtering efficiency	85%	85%
Textile strength at 20% elongation: Standard strength	30 lbs. per linear inch	50 lbs. per linear inch
Extra strength	50 lbs. per linear inch	70 lbs. per linear inch
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet
Water flow rate	15 gal./min./square feet	220 gal./min./square feet
UV resistance	70%	85%
Post spacing	7 feet	5 feet

Note: Silt fences can be purchased commercially.

- Height – a minimum of 18 inches above ground level (30 inches maximum).
- Reinforcement – fabric securely fastened to posts with wood lathe.
- Support Posts
  - 2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).
  - Spacing
    - Eight feet maximum if fence is supported by wire mesh fencing.
    - Six feet maximum for extra-strength fabric without wire backing.

Installation

Prefabricated silt fence (see Exhibits 1, 2, and 3)

1. Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point (see Exhibit 1).
2. Excavate an eight-inch deep by four-inch wide trench along the entire length of the fence line (see Exhibit 2). Installation by plowing is also acceptable.
3. Install the silt fence with the filter fabric located on the up-slope side of the excavated trench and the support posts on the down-slope side of the trench.

PROTOCOL FOR STAGING PORTABLE TOILETS

Portable toilets (port-o-lets) will be provided on the construction site for Associates and trade workers in compliance with applicable statutes and regulations. In accordance with **Indiana 327 IAC 15-5-7 General requirements for storm water quality control:** appropriate measures shall be implemented to minimize or eliminate wastewater (i.e. objectionable substances from a portable toilet unit) being carried from the project site by run-off.

All portable toilet units be will provided by a professional sanitation service contractor who will transport, deliver, stage, and maintain each unit in accordance with applicable statutes and regulations. Each unit shall be equipped with one urinal, one toilet, and one hand sanitizer dispenser / handwash sink. Objectionable waste contained within the unit will be disposed of by the professional sanitation service contractor in compliance with applicable statutes and regulations.

The Builder will prepare a designated location for placement and staging of each portable toilet unit. The preferred location for each unit will promote long term staging, and discourage frequent relocation of the unit; however, the Builder may relocate the unit more frequently, as long as sequencing protocol is implemented. The following staging protocol will be implemented for portable toilets units:

- Each unit will be staged on a reasonably level / flat ground; this may include a graveled construction entrance when site conditions are appropriate;
- Each unit, when located on an individual lot, must be placed behind or within perimeter BMPs;
- On occasion, units may be *temporarily* staged on a non-permeable surface when appropriate perimeter BMPs are utilized;
- When possible, units may be staged within a concrete washout area;
- The provision of reasonable access to units is expected. To prevent slips, trips and falls, optimal staging may include the installation of a gravel / stone pathway from curb to unit. Pathways will never be fabricated from scrap lumber or trash material, nor in likeness of any bridge or gangplank approach;
- Each unit will be staged a minimum of 6' from any curb, ***and never located near any stormwater inlet or conveyance***;
- Each unit will be staged in a manner that is easily accessible for routine maintenance;
- Each unit will be properly secured by staking all four corners of the unit to the ground;
- Units will never be staged on or within any public walkway or street;
- Units will be inspected weekly for proper staging and to verify any evidence of leaking.

In accordance with **Indiana Rule 6.1: 327 IAC 2-6.1-1 Spills; Reporting, Containment, and response:** spills of objectionable substances, that *exceed* a quantity of one pound or one pint (i.e. from a portable toilet unit) shall be contained, cleaned, removed, and properly disposed. Spills of reportable quantity, as defined by Indiana Rule 6.1 will be managed in accordance with applicable statutes and regulations.

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Author: Kevin Rager Page 1 of 1 12/11/19

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PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:
STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, LLC
Phone: (317) 659-3200

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
MCCORDSVILLE, INDIANA

SWPPP DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

CHRISTOPHER K. EICHHORN REGISTERED No. 11400758 STATE OF INDIANA PROFESSIONAL ENGINEER

Kristopher K. Eichhorn

DRAWN BY	TS
CHECKED BY	KE
DATE	MARCH 2022
SCALE	AS SHOWN
JOB NUMBER	2019-003-A
SHEET	C8.2
	SWPPP DETAILS

Plot Date: Aug 22, 2022 Plot Time: 4:54pm File Name: W:\calatlantic homes\2019-263-a lennar— mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A-SWPP Notes and Details.dwg, Layout: C8.2 By: keichhorn

Sequence Describing Storm Water Quality Measure Implementation Relative to the Vertical Construction Activity on an Individual Lot within a Larger Development.

Introduction – The project site owner has identified eight (8) phases within the vertical construction sequence. During the period of construction activities, all storm water quality measures necessary to meet the requirements of the Indiana storm water Rule shall be maintained in working order. The SWPPP shall serve as a guideline for storm water quality, but should not be interpreted to be the only basis for implementing, in accordance with the Rule, all measures to adequately prevent polluted storm water run–off. Alternative measures to site stabilization are acceptable if the site owner or their representative can demonstrate they have implemented erosion and sediment control measures adequate to prevent sediment discharge. Generally, the project site owner will have permitted projects within multiple municipalities; therefore, BMP practices will be modified as required by the enforcement of applicable regulation. Please make reference to: "Protocol for when BMP Maintenance is Required".

From time construction activity begins, and until the individual lot is stabilized, the lot owner will:

–Protect adjacent properties from sedimentation;

–Prevent mud/sedimentation from depositing on the public street;
–Protect drainage ways from erosion and sedimentation;
–Prevent sediment laden water from entering storm sewer inlets.

The following storm water quality measures will take place on an individual lot/home– site:

Phase 1 – Foundation – During the period of construction activities:

- A qualified professional shall install silt fence at front curb and rear swale; wattles may be utilized as permitted by applicable regulations (i.e. frozen ground conditions, feasibility for site access, transitional BMP, etc. Additional silt fence will be installed adjacent to establish lots or common areas, or the full perimeter of lot/home–site, as required by the enforcement of applicable regulation. A qualified professional shall verify the presence of appropriate BMP protection for nearby storm water inlets; if not present, the CM will be notified and these BMP devices will be installed promptly.
- The installation of the following House Keeping BMPs will be installed upon start of construction as required by enforcement of applicable regulations:
  - o Portable toilet(s) will be appropriately staged throughout the project site. Note: Please make reference to: Protocol for Staging Portable Toilets;
  - o Trash containers or location of trash placement;
  - o Concrete washout (May be a stationary location for the entire site, or may be portable devices on an individual lot).
- Townhome Projects: Typically, a gravel staging area will be established on the site to accommodate storage of construction materials and equipment, concrete washout, and portable toilets. Perimeter silt fence or silt sock will be installed around the staging area. The project Construction Manager will evaluate each site for the appropriate location for the staging area.
- A temporary construction entrance shall be installed, as required by the enforcement of applicable regulations.
- Foundation soil stock pile may remain active throughout the Foundation Phase. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil stock piles will be distributed on site by machine grade in a timely manner.
- Up to two loads of soil may remain on site after backfill of foundation. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- All concrete washout will occur at the designated concrete washout area. Washout may occur onsite of an individual lot utilizing portable washout devices.
- All construction trash/debris will be contained on site in a manner permitted the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater "toolbox talks".

Phase 2 – Framing – During the period of construction activity:

- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up. Please refer to Builders Trash Act protocol.)
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater "toolbox talks".

Phase 3 – Mechanical Rough – During the period of construction activity:

- All paint washout shall be done utilizing paint containers. All paint containers shall be removed from the lot/home– site by the paint contractor.
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater "toolbox talks".

Phase 4 – Insulation/Drywall – During the period of construction activity:

- All drywall scrap and debris shall be removed from the lot/home site by the drywall contractor. The drywall contractor will be responsible for the appropriate disposal of all drywall material. Washout of drywall spackling compounds shall be contained in buckets and removed from the lot/home site by the drywall contractor.
- While in the process of installing brick veneer, bagged dry mix mortar and brick material will be covered by a vapor barrier material to prevent exposure to a rain event. A vapor barrier material will be applied to the soil surface where brick mortar will be mixed. Washout of mortar material may occur on site when utilizing appropriate portable washout container. Hardened mortar debris and brick trash will be staged at curb side by the brick contractor for removal; or, placed in the provided trash container (i.e. dumpster) as required by enforcement of applicable regulations. In addition to the aforementioned guidance, the following requirements shall apply for washout of brick mortar for all Lennar Townhome construction sites:
  - o The staging area for mixing brick mortar shall be adjacent to the Site concrete washout.
  - o All brick mortar washout shall occur (in semi–solid condition) directly into the concrete washout in lieu of utilizing a washout bag.
  - o Lennar will not provide a washout container bag for Townhome construction sites.
  - o Note: Please make reference to: Brick Mortar Washout Protocol – Lennar BMP for detailed staging guidance.
- All concrete washout will occur at the designated concrete washout area. Washout may occur onsite utilizing portable washout devices.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater toolbox talks.

Phase 5 – Exterior Finish – During the period of construction activity:

- A machine grade will occur on site to prepare for the installation of the permanent concrete driveway and walkways. During this transition, Curb back cut and/or wattles may be utilized as submittal BMP measures to adequately prevent polluted storm water run–off from the construction site.
- All concrete washout will occur at the designated concrete washout area. Washout may occur onsite utilizing portable washout devices.
- Washout of drywall spackling compounds, paint, tile grout, etc., shall be contained in buckets and removed from the lot/home site by the appropriate contractor.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater toolbox talks.

Phase 6 – Interior Finish – During the period of construction activity:

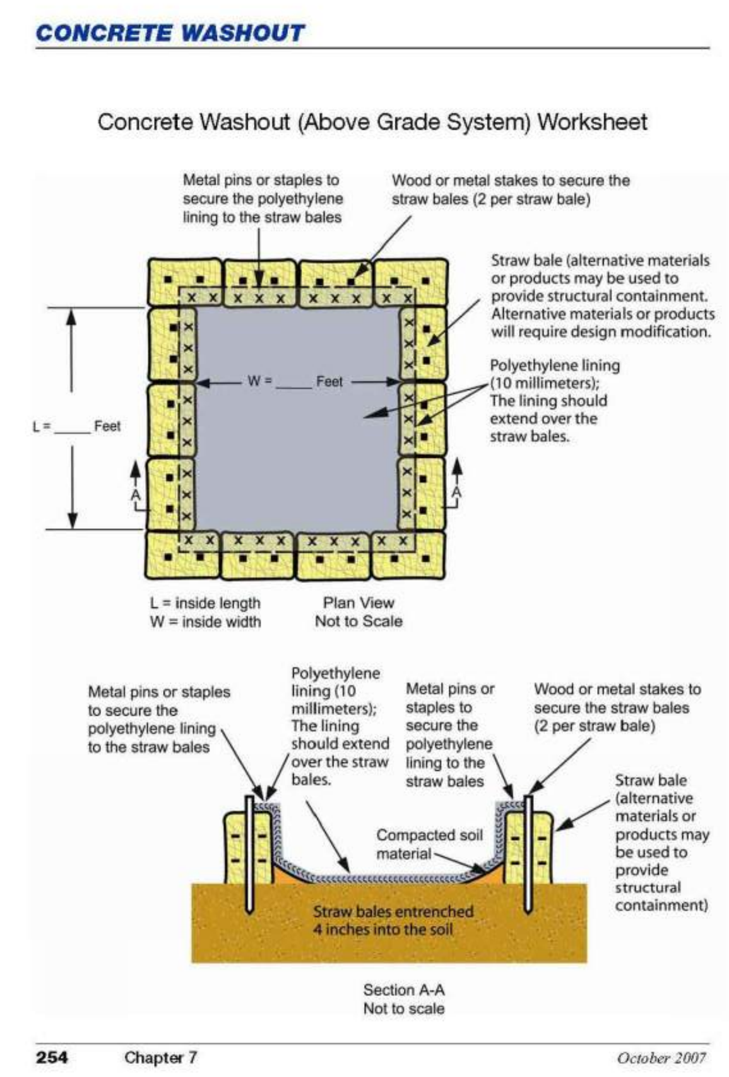
- Washout of drywall spackling compounds, paint, tile grout, etc., shall be contained in buckets and removed from the lot/home–site by the appropriate contractor.
- All concrete washout will occur at the designated concrete washout area. Washout may occur onsite utilizing portable washout devices.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater toolbox talks.

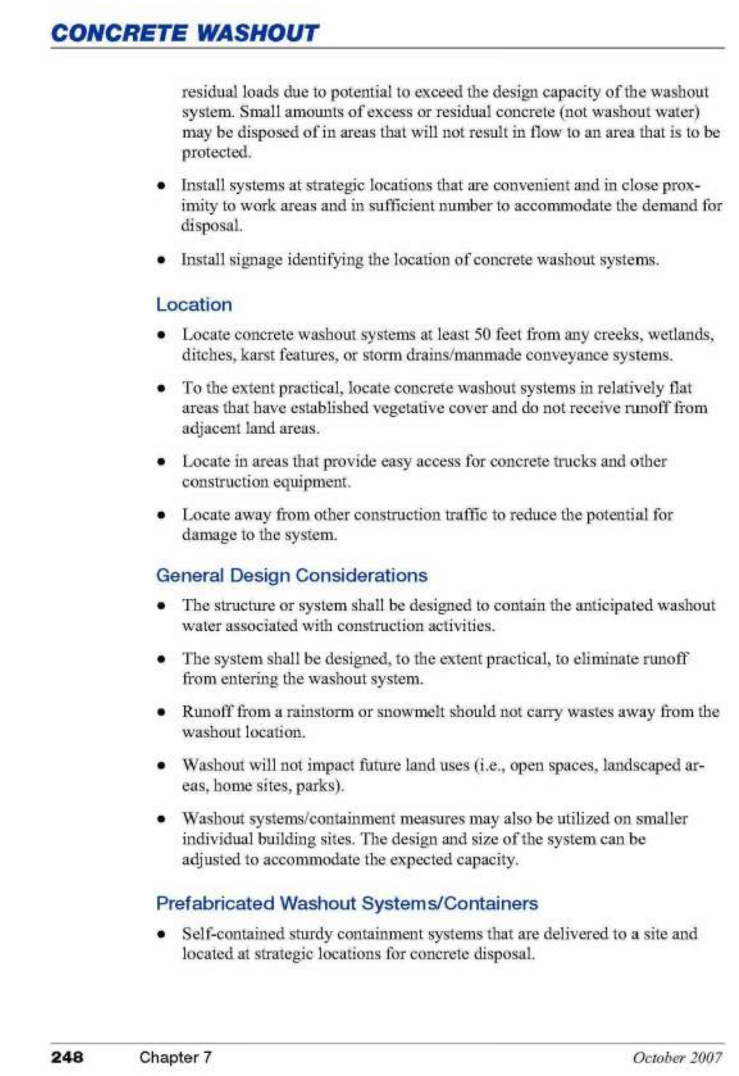
Phase 7 – Mechanical Trim – During the period of construction activity:

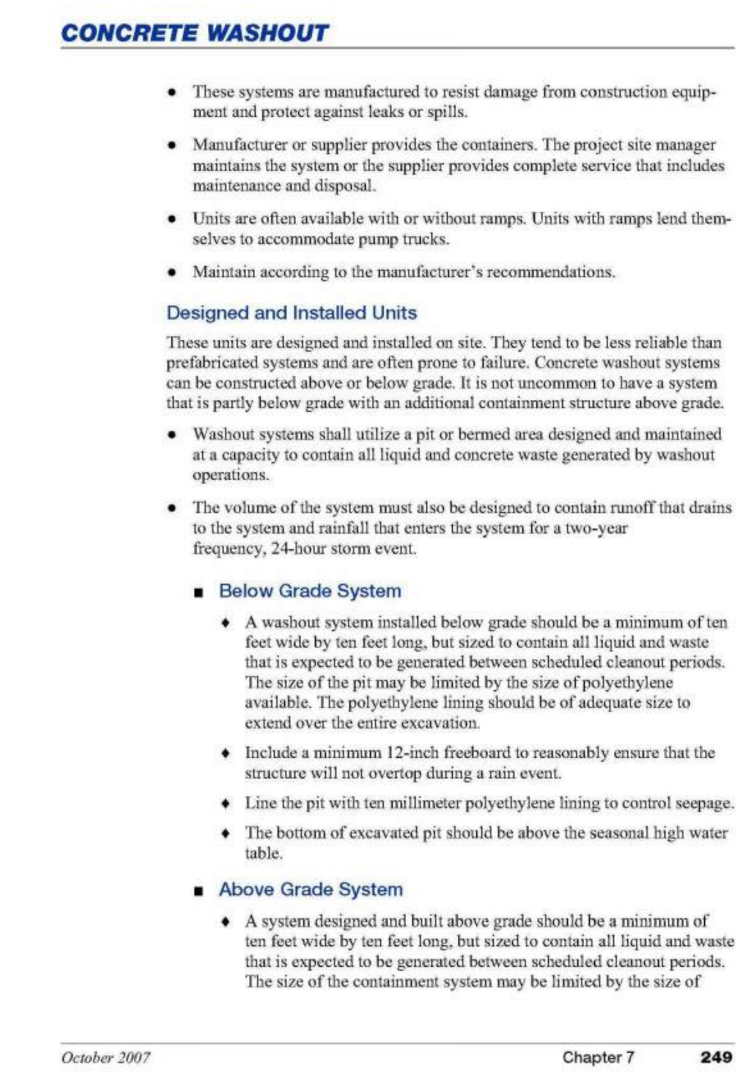
- A machine grade will be accomplish on site for purposes of filling ground settlement and surface erosion.
- Washout of drywall spackling compounds, paint, tile grout, etc., shall be contained and removed from the lot/home site by the appropriate contractor.
- All concrete washout will occur at the designated concrete washout area. Washout may occur onsite utilizing portable washout devices.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- Up to two loads of soil may remain on site. Soil stock piles shall be placed on the lot/home site in a manner as not to challenge the integrity of perimeter BMPs. Soil will be distributed on site by machine grade in a timely manner.
- A qualified person(s) shall inspect and maintain all storm water measures. Lennar site Associates will participate in bi–weekly stormwater toolbox talks.

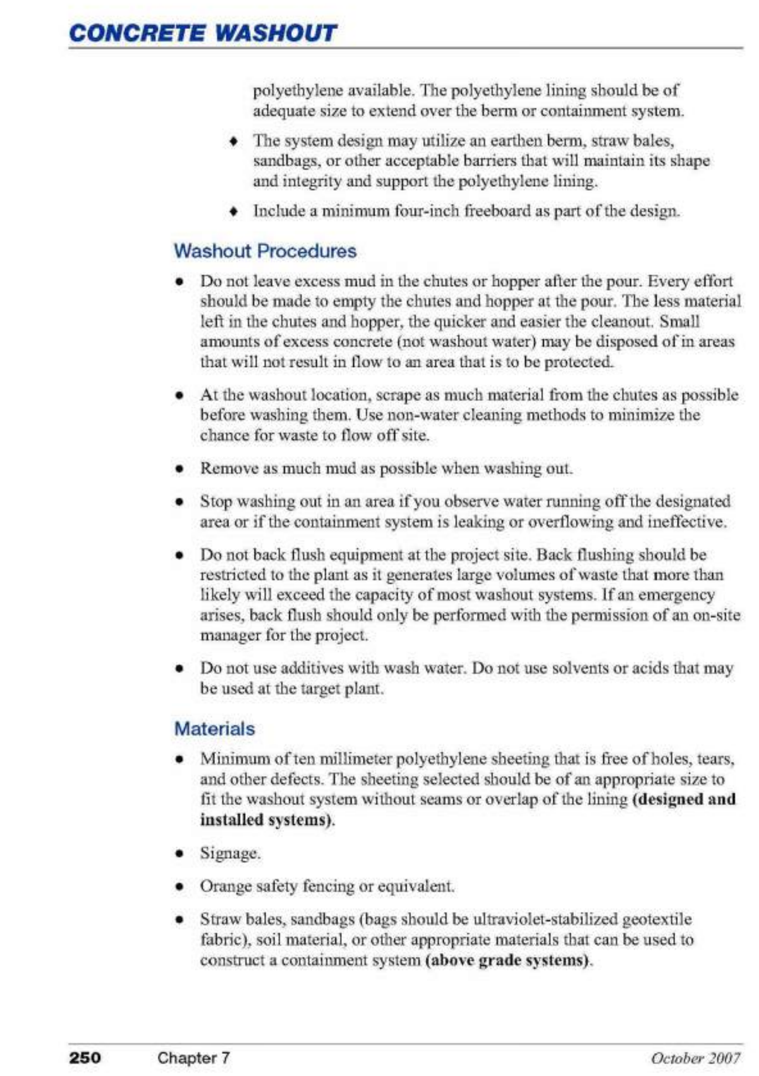
Phase 8 – Home Site Finish – During the period of construction activity:

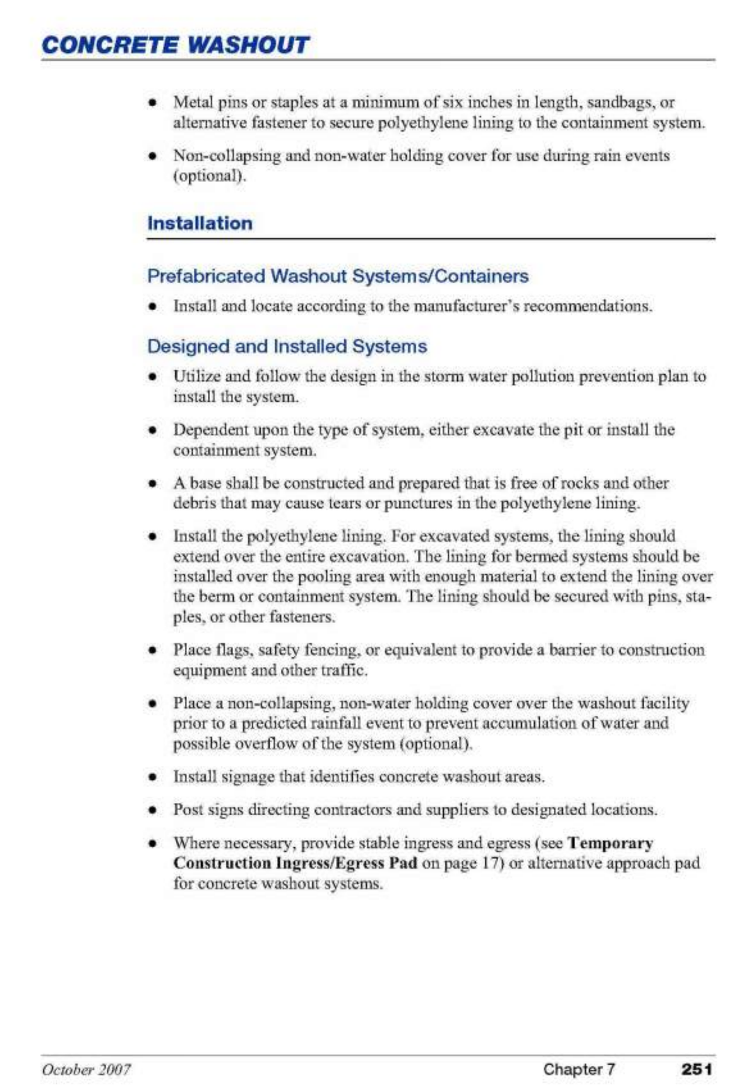
- During seasonal conditions, all silt fence will be removed, wattles or turf matt may be utilized as transitional BMP while awaiting final stabilization, a machine grade will be accomplished on site in preparation for final stabilization (Note: adverse soil conditions my limit winter grading). Sod will be installed at front yard to front corners of house structure. Side and rear yards will be seeded and PennMulch soil stabilizer/fertilizer applied to soil surface, a row of turf matting will be installed at the rear swale easement line, and one piece of sod will placed at each downspout located within a seeded area of the lot. Other turf matting may be positioned on seeded areas due to extreme lot grade. When full sod option is chosen, sod will be installed at side and rear yard in–lieu–of seed, no turf mat will be applied rear easement line, rear swale shall be over seeded. During the New Home Orientation, the new property owner will be informed of the requirement for, and benefits of, final stabilization, and the prevention of stormwater pollution.
- Upon the completion of construction activity, and during unseasonable conditions, existing erosion and sediment control measures will remain in place on site, wattles or turf mat may be applied at curb in–lieu–of silt fence. A qualified person shall inspect and maintain all storm water measures. During the New Home Orientation, the new property owner will be informed of the requirement for, and benefits of, final stabilization, and the prevention of stormwater pollution.
- When seasonal conditions return, all perimeter BMPs will be removed, wattles or turf mat may be utilized as transitional BMP while awaiting final stabilization, sod will be installed at front yard, side and rear yards will be seeded and PennMulch soil stabilizer/fertilizer w/ tackifier applied to soil surface, and one piece of sod will placed at each downspout located within a seeded area of the lot. A single row of turf matting will be installed at the rear swale easement line. If full sod option is chosen, sod will be installed at side and rear yard in–lieu–of seed, no turf mat will be applied rear easement line, rear swale shall be over seeded.
- Washout of drywall spackling compounds, paint, tile grout, etc., shall be contained in buckets and removed from the lot/home site by the appropriate contractor.
- All concrete washout may occur at the designated concrete washout area; or, washout may occur on site of an individual lot utilizing portable washout devices.
- All construction trash/debris will be contained on site in a manner permitted by the enforcement of applicable regulations (i.e. trash containers utilized as enforced by municipal authority, fly–a–way trash will be appropriately contained on site by end of day. Where permitted lumber trash /debris may be set at curb for weekly trash pick–up.)
- A qualified person(s) shall inspect and maintain all storm water measures, until transfer of ownership has occurred and the new property owner has been informed of the requirement for, and benefits of, final stabilization. Lennar site Associates will participate in bi–weekly stormwater toolbox talks.

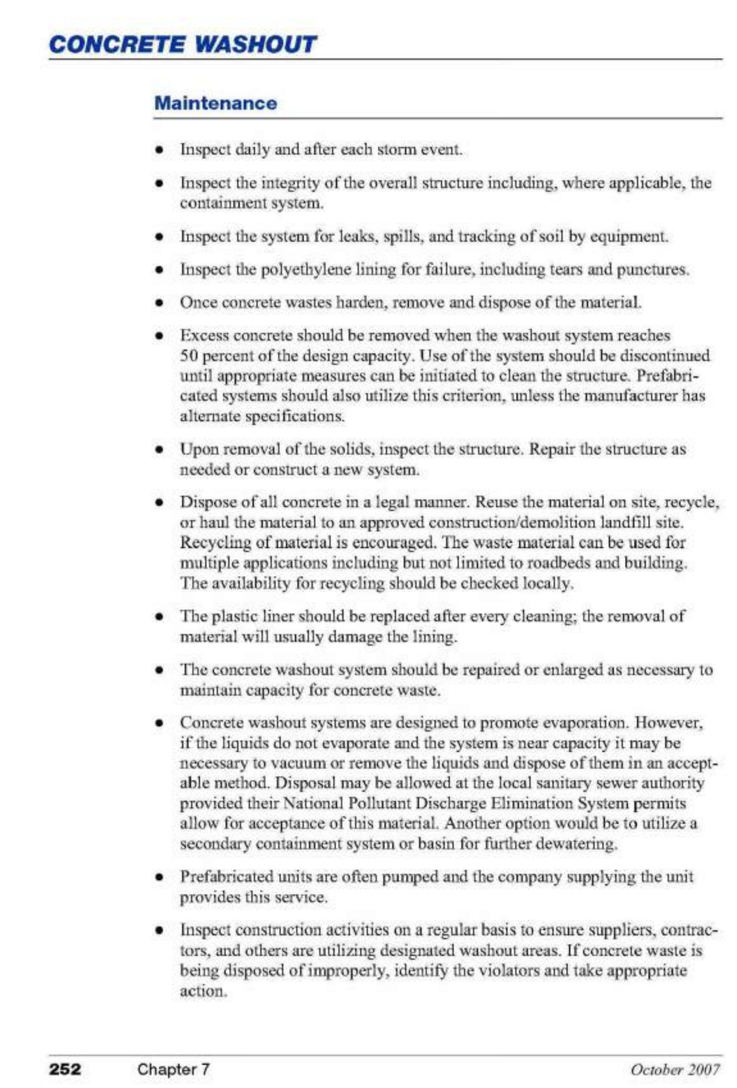


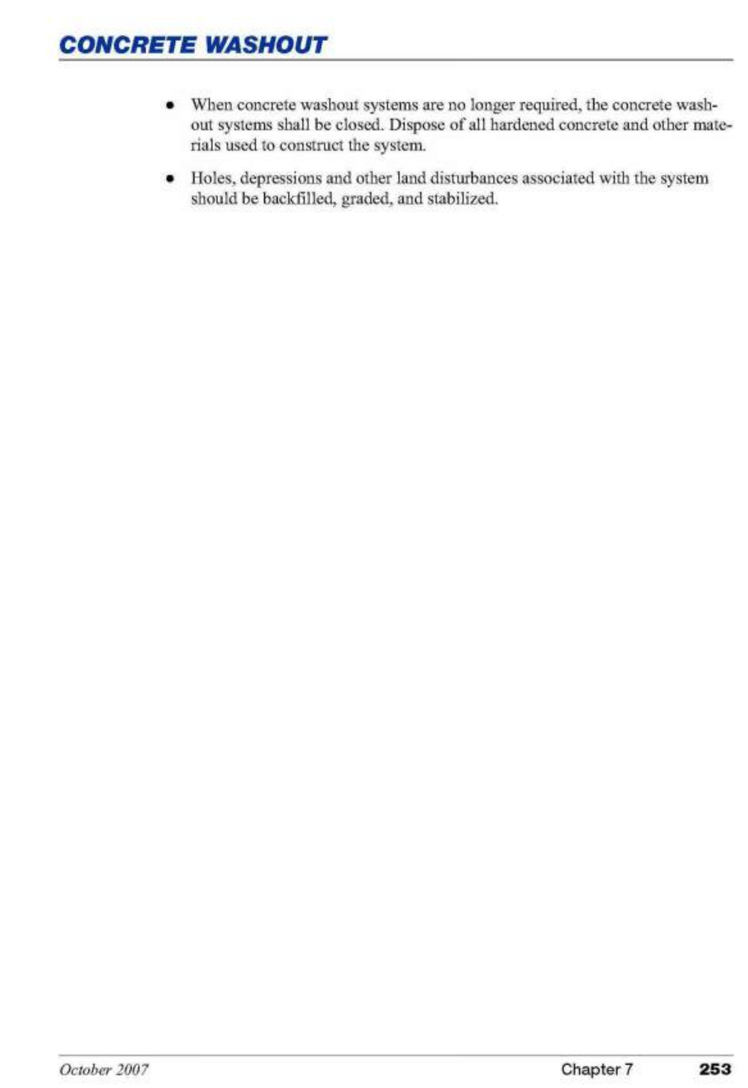


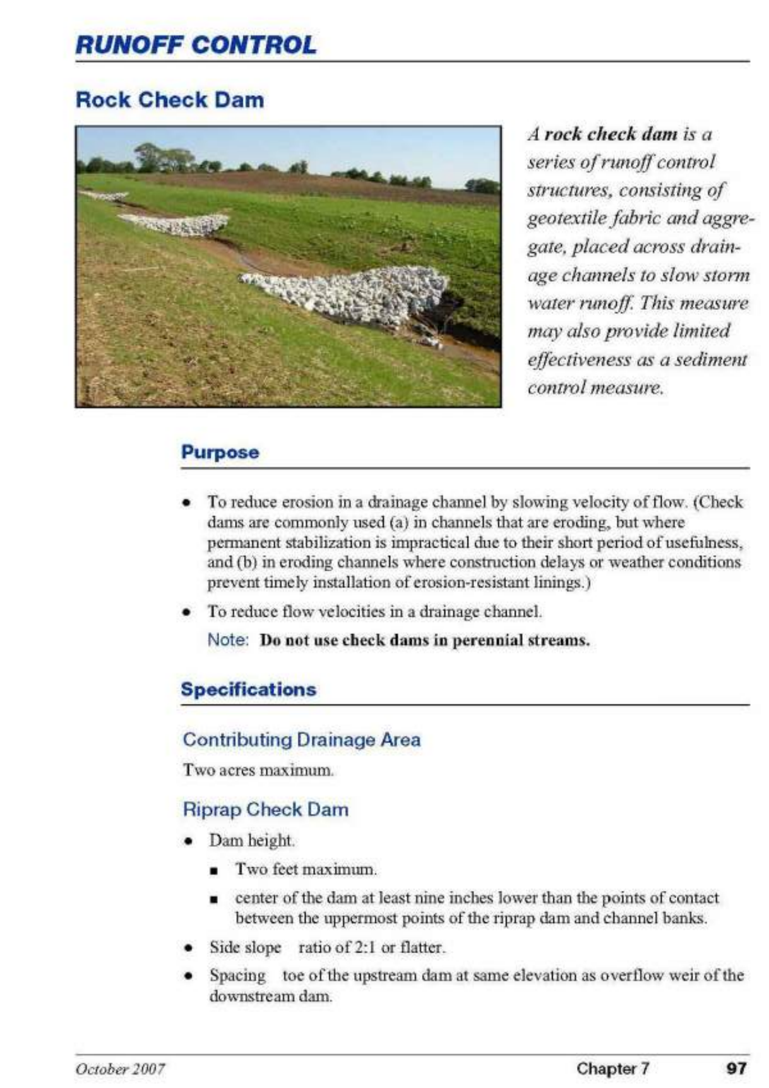


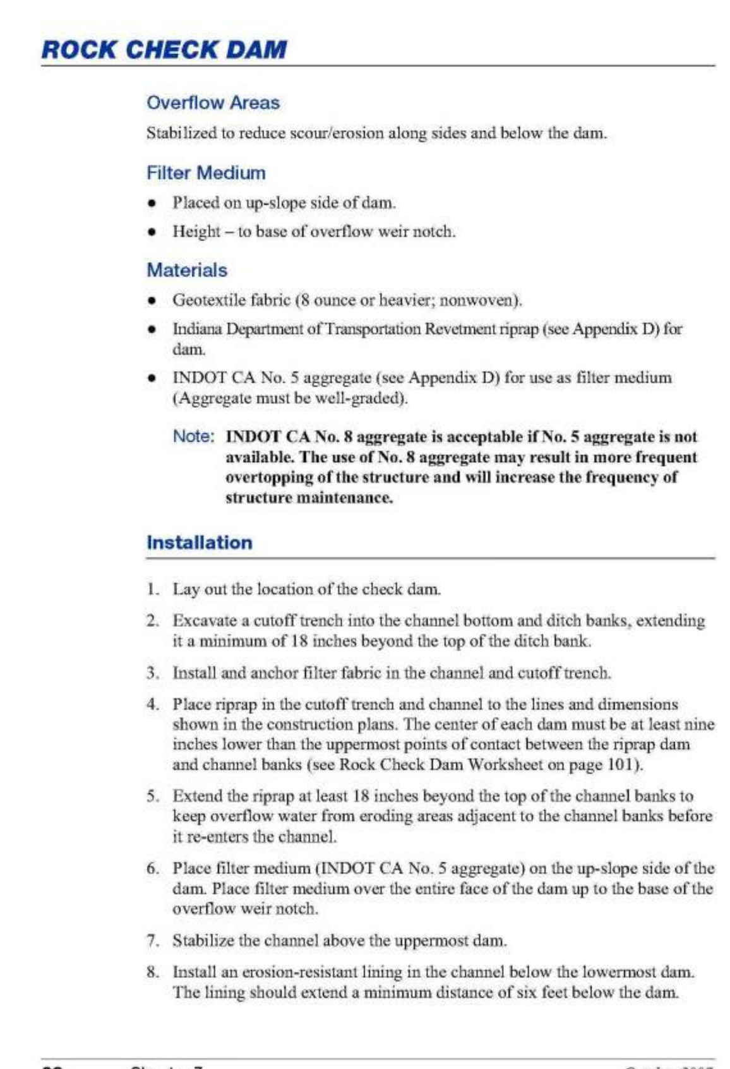


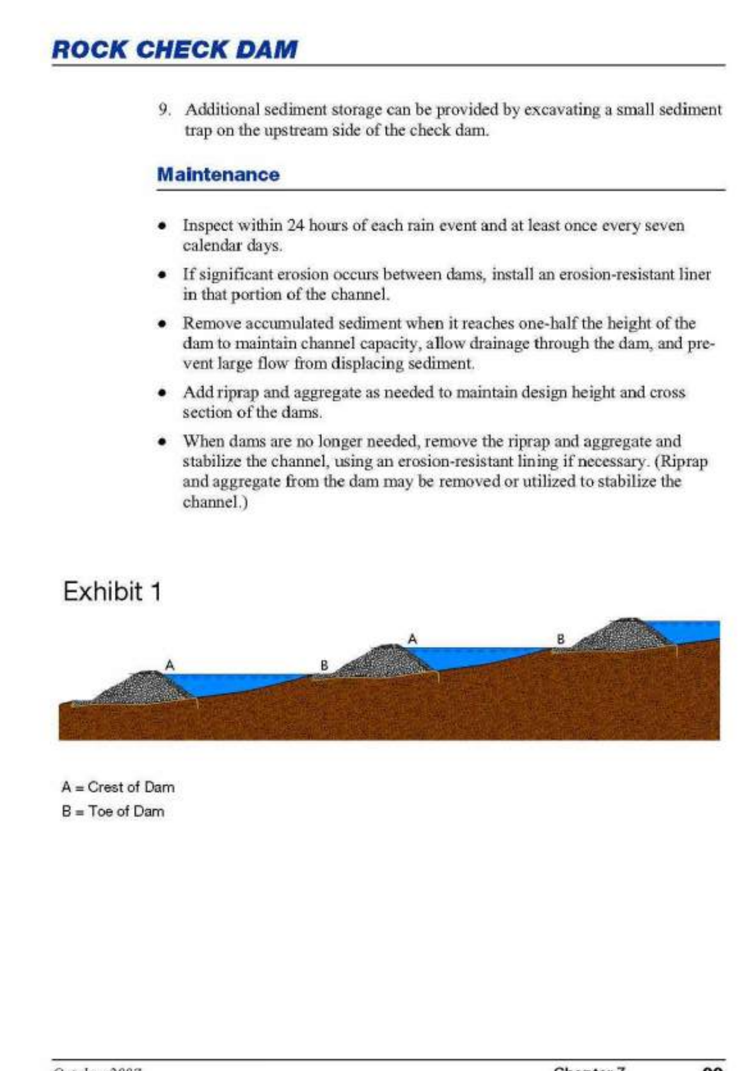


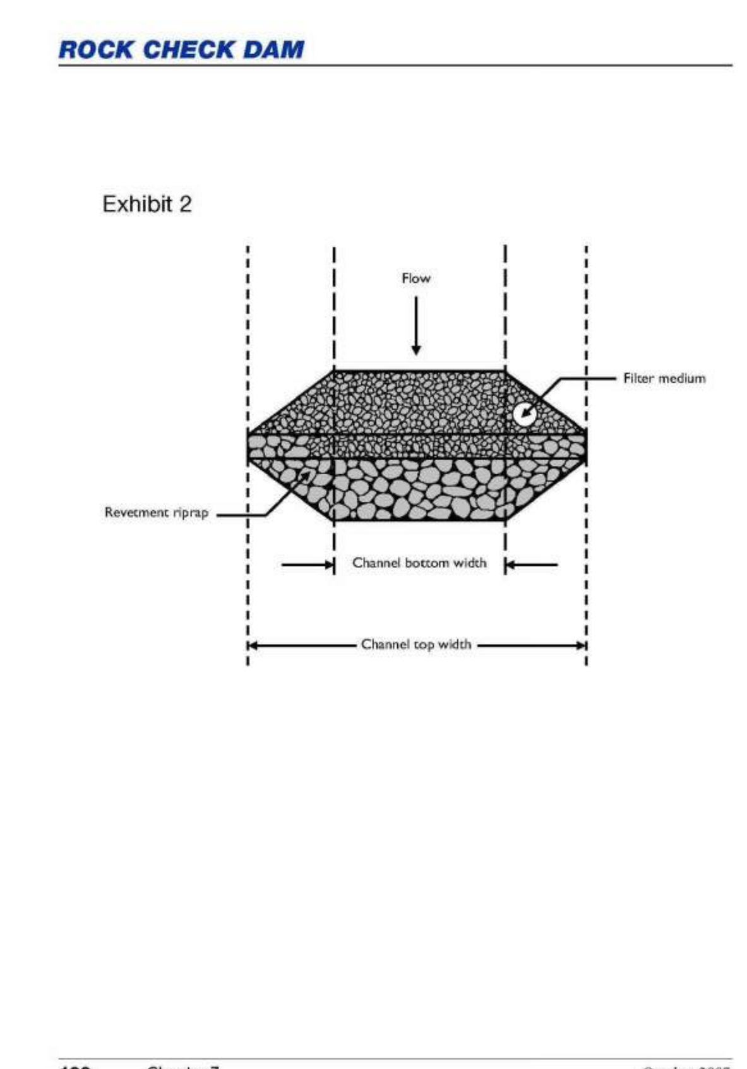


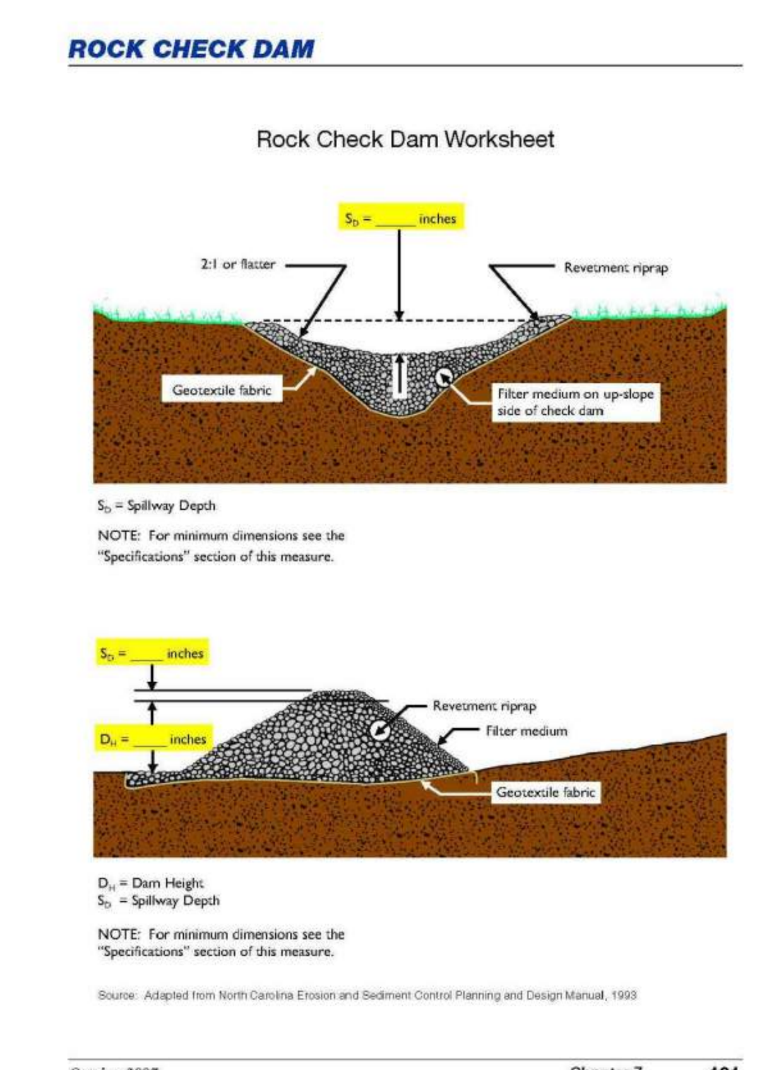












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PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:
STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, LLC
Phone: (317) 659-3200

REVISIONS		
DATE	DESCRIPTION	BY

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INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

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MCCORDSVILLE, INDIANA
SWPPP DETAILS

PRELIMINARY
NOT FOR CONSTRUCTION
KRISTOPHER K. EICHHORN REGISTERED No. 11400758 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY TS
CHECKED BY KE
DATE MARCH 2022
SCALE AS SHOWN
JOB NUMBER 2019-003-A
SHEET
C8.3
SWPPP DETAILS

Plot Date: Aug 22, 2022 Plot Time: 4:54pm File Name: W:\calatlantic homes\2019–263–a lennar– mccord pointe amenity\Design\CAD\section 7 amenity center\19263–A.SWPP Notes and Details.dwg, Layout: C8.3 By: keichhorn

Half (1/2) Yard – One Ton Bag

OTB-04: Half (1/2) Yard One Ton Bag™

Holds a half yard of material and 2,600 pounds. It has an open top and a closed bottom. It is perfect to deliver smaller quantities of product. **It can be used as a washout bag too.**

Size: 31"w x 31"l x 24"h
Capacity: 1/2 Cubic Yard, 2,600 lbs.

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Protocol for Propane Tank Staging

The purpose of this memo is to establish protocol regarding the staging of 100# propane tank storage, and the occasional utilization of propane heaters within a structure in Lennar communities. The Lennar Injury & Illness Prevention Plan (IIPP), Code of Safe Work Practices requires that any propane storage on construction site be properly managed. This will assure a safe working environment for Associates, Trade Partners, and Homeowners. The following guidelines shall be implemented by all Associates managing propane fuel on a construction site:

Propane Tank Storage:

- The staging area for propane storage must be located at least 20' behind the street curb.
  - Concrete washout lot is a good location when there is adequate space.
- Tanks must be place a minimum of 10' away from any structure or combustible material.
- Tanks must *always* be in the upright position.
- Tank staging area must be inspected weekly.
- A appropriate fire extinguisher must be readily available;
- It is *not* recommended that any Associate attempt to lift or relocate any 100# tank without assistance. Proper lifting techniques should always be utilized. Tanks larger than 100lbs should be *only* moved or handled by the Propane Supplier;
- Tanks are to be place on a level platform:
  - The platform can be built by your framer;
  - The platform should be substantial enough to accommodate no more than ten (10) one hundred pound propane tanks;
  - The platform should have rails and/or side panels on three sides to prevent tipping of tanks;
  - The open side of the platform should be always be chained or equivalent product;
  - **"Danger – Propane Gas"** signage should be posted so viewable from the public street or walkway.

Considerations When Utilizing Propane / Natural Gas Heaters:

- Do *not* allow Trade Partner's to place *any* fuel source (i.e. Kerosene, etc.) for temporary heat while working within a structure;
- *Only* a qualified Plumber or Fuel Supplier may install, connect, or disconnect any heater to the fuel source;
- A propane heater may only be utilized within a structure when the following guidelines are implemented:
  - The fuel source is located outside the structure as required (10' from structure or combustible material);
  - The heater is set on a non-combustible surface;
  - The heater is placed away from any combustible material… minimum of 3' to 6'… higher btu units may require more clearance per manufacturer specifications;
  - Tank supply hoses must never be place thru door openings; rather, place hoses thru window openings. Block window sash to prevent crushing of the supply line;
  - The heater is monitored while workers are within the structure;
  - There must be adequate ventilation to prevent carbon monoxide exposure.

Remember, we can never be so busy that we cannot be safe. Work Safe… Work Smart!

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Author: Kevin Rager Page 1 of 1 12/11/19

Re-Fueling Gas Operated Small Equipment Protocol

The purpose of this memo is to provide instruction to all Trade Partners regarding protocol when re-fueling gas operated small equipment on a Lennar construction site:

- **All fuel containers must meet OSHA standards for worker safety compliance, and DOT standards because fuel is being transported in a motor vehicle on a public roadway.** Approved fuel containers must meet the following standards:
  - Must contain less than five gallons of fuel;
  - Must be equipped with the following:
    - flash arrestor screen;
    - spill proof spring-closing lid;
    - child proof cap;
    - vent to release pressure and minimal vapor;
    - properly equipped metal cans are preferred;
    - plastic cans may be tolerated when meeting the above standards.
  - An appropriate fire extinguisher must be on site at all times when gas operated equipment is present and/or re-fueling is occurring.

- **Proper Re-fueling of small equipment on any Lennar construction site falls under the SWPPP (Storm Water Pollution Prevention Plan) guidelines for each construction site. Since fuels are considered hazardous substances by the USEPA, utilizing proper re-fueling protocol is important.** Considering that all OSHA /DOT requirements have been satisfied, proper re-fueling on a construction site should consider the following guidelines for compliance to the SWPPP:
  - Gas operated equipment and fuel containers should be securely staged on a non-permeable ground barrier or pan-like device;
  - Re-fueling of equipment may *only* be performed on a Lennar construction site when equipment is properly staged to prevent the spillage of fuel onto the ground.
  - In the event any fuel or motor fluid is spilled onto the ground, the contractor must immediately collect and remove polluted soils from the construction site for proper disposal by the contractor.
  - Leaking fuel containers or motor equipment should be removed from the construction site for proper repair / replacement.
  - Any spill of fuel and/or motor oil must be contained and cleaned by the subcontractor. Spills that meet or exceed "reportable" quantities must be immediately contained and reported to the site Construction Manager. The Construction Manager will assure proper protocol is followed for any clean-up of the spill, and determine if the Sub-Contractor is capable of managing the clean-up effort. The Construction Manager will determine when spill clean-up should be done by a professional remediation contractor.

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Brick Mortar Washout Protocol – Lennar BMP

As required by the Federal EPA, the State of Indiana, and Local Municipal Authorities, Lennar has designed and implemented a Storm Water Pollution Prevention Plan (SWPPP) for all construction sites. The SWPPP protects waterways from construction storm water run-off. Improper washout practices on construction sites can be a significant contributor to the pollution of surrounding waterways when stormwater run-off is poorly managed. **Lennar's SWPPP prohibits unlawful washout to occur on any construction site.** In an effort to provide specific direction to Trade partners regarding brick mortar washout, the following instructions are provided:

Lennar Individual Lot Construction Sites:

- Brick mortar washout is *never* allowed onto unprotected ground (this includes temporary graveled construction entrances, often referred to the temp drive).
- Any spillage of brick mortar washout onto the ground shall be removed and contained immediately.
- Equipment utilized for the mixing of brick mortar must be staged on a non-permeable barrier to protect the ground from washout spillage.
- Brick mortar washout must be contained within a water tight (non-permeable) container (i.e. non-permeable washout bag, etc).
- Lennar will provide one – half (1/2) yard washout container bag for each individual construction site. It will be included with the delivery of brick materials. When possible, the brick mason is encouraged to maintain usable bags for reuse on Lennar job sites.
- Brick mortar washout must be made into a semi-solid condition before being emptied into an approved container (i.e. the adding of sand to mixer washout to absorb fluid).
- The washout container bag should be placed at curb for trash pickup. When possible, the container should be place in the provided trash dumpster; or, its content emptied into the Site concrete washout.
- All hardened brick mortar and unused bags of mortar shall be treated as brick trash; collected and properly disposed per the Site trash disposal requirement. Unused mortar bags should *never* be broken open and spread onto the ground or temp drive.
- All fly-a-way trash (paper, wrappings, etc.) shall be contained in trash bags, or equivalent container; collected daily and properly disposed per the Site trash disposal requirement. Fly-a-way trash should *never* be left uncontained on the construction site.

In addition to the above practices, the following requirements shall apply for washout of brick mortar for all Lennar Townhome construction sites:

- The staging area for mixing brick mortar shall be adjacent to the Site concrete washout.
- All Brick mortar washout shall occur (in semi-solid condition) directly into the concrete washout in lieu of utilizing a washout bag.
- Lennar will not provide a washout container bag for Townhome construction sites.

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Solid Waste Trash Removal Protocol for an Individual Lot

The necessity to maintain clean and orderly job sites in our communities is a significant objective for Lennar Homes of Indiana, Inc. It is important that the first impression when entering a community or a new construction home, there is an appearance the site is being managed to achieve a clean and orderly job site. Keeping every job site free from accumulation of trash and debris will be beneficial to the builder, our customers, our homeowners, and provide a clean, safe, and professional work environment for all our Trade Partners. **Clean site… Done right… On time.**

Non-Construction trash (i.e. drink containers, food wrappers, other personal trash, etc.) shall not remain on any Lennar job site. Non-Construction trash must be removed from the site by the Trade Partner. All loose or fly-a-way construction trash must be contained in a trash bag or other disposable container.

Communities where trash containers (i.e. dumpsters) are *not* utilized for trash containment and removal. When allowed by the enforcement of applicable regulations, accumulated trash will be removed from each job site on a regularly scheduled basis, once every week. The Trade Partner providing solid waste removal services will provide the following on a weekly basis:

- Create and maintain a weekly trash route to collect trash from each job site.
- Remove all trash material left piled at the curb and/or left in the garage of each job site for disposal. (Note: Garage trash removal will begin after the drywall phase is completed, and will include sweeping the garage floor).

The following Trade Partners are allowed to *leave* construction trash in one pile placed in the front yard, located by the curb. All loose or fly-a-way construction trash must be contained in a trash bag or other disposable container. They are the following:

- Framer*
- Roof Shingle Installer
- Brick Mason
- Wood Siding Installer

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Direction to the Lennar Site Manager Regarding Spills

Depending on the phase of the construction site, the Land Project Manager and/or the Vertical Construction Manager or Area Construction Manager shall referred to as the "site manager".

Please note: Most spills typical to this site may not reportable to the State. However, it shall be the direction of the Permittee that all spill occurrences, which are excluded by the State as "reportable" shall be contained, cleaned, and brought to the attention of the site manager by the party responsible for the spill. The site manager will assure the spill has been properly managed by the party responsible for causing the spill. In the event the party causing the spill cannot be identified, or the product spilled cannot be identified, the site manager may utilize professional mediation clean-up resources available to Lennar. Should the spill be an insignificant quantity, and the product spilled provides no threat to the health and well-being of humans, the Site Manager may choose to contain and clean the spill themselves. However, no matter how the spill occurrence may be identified, it will be the site managers overall responsibility to assure the requirements of the Indiana CPG are satisfied.

The Indiana Rule 6.1. Spills; Reporting, Containment, and Response, 327 IAC 2-6.1-1 clarifies the following when referring to spills:

- When a spill occurrence is excluded by the Rule;
- What qualifies a spill occurrence as reportable to the State;
- When a spill occurrence qualifies as "reportable" to the State, the Rule provides direction as to:
  - when a report must be accomplished,
  - who will make the report,
  - where the report will be sent,
  - who will receive the report,
  - the time frame in which the report shall be sent..

The Indiana Rule 6.1 further states, "Notwithstanding any other section of this rule, **emergency spill response actions take precedence over reporting requirements**, and when emergency spill response activities render spill reporting inconsistent with effective response activities, communication of the spill report to the Indiana department of environmental management may be delayed. In situations where the spill report is delayed, the burden of proving the need for the delay shall be upon the responsible persons."

Finally, when a spill occurs on the site that is of "reportable" quantity or type, the Site Manager will contact the Division Environmental Manager for appropriate direction. **However, when the spill occurrence is of such magnitude as to be considered dangerous to life, limb property wildlife habitat the site manager will contact local emergency personnel immediately…. DIAL 911.** The Division Environmental Manager shall be contacted immediately after emergency services has been contacted.

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Protocol for the Transition from Land Development to Vertical Construction

The purpose for this sequence checklist is to identify how the transition will occur when a Land Development Project Section is ready to begin Vertical Construction. Vertical Construction will operate under the approval of the Project's Construction General Permit originally filed with the State. A copy of this checklist will remain in the Project Management Log.

The VP of Operations will determine when a Project Site Section is ready for the Pre-Construction Meeting. He will direct the VP of Land Development and the Director of Construction to schedule the meeting. The Land Project Manager, Director of Construction, Area Construction Manager, Construction Manager, Alpha Field Manager, and Division Environmental Manager will meet at the Project Site (participants might vary based on availability) to verify the following:

- ✓ The Site Plat has been recorded and all Permits are valid.
- ✓ The Project Site is compliant with the SWPPP / The PML documents are current (i.e. NOS included in book).
- ✓ All amendments regarding approved changes made to the site Plan are properly logged in the Project Management Log.
- ✓ All site BMPS are maintained and functioning as intended.
- ✓ Individual lots released for construction have established building pads, and swales.
- ✓ Access to all public utilities (water, sewer, gas, and electric) are present on all lots released for vertical construction.
- ✓ Once a section is released for Vertical Construction, there will be an understanding as to who is responsible for BMP maintenance related to individual lots not yet released for construction start, and including maintenance related to common areas (entry, ponds, swales, and recreational areas).
- ✓ BMP requirements for individual lots have been identified as may be required by the Municipal Authority and have been communicated to the site Construction Manager:
  - Perimeter silt fence requirements;
  - Approved BMPs identified;
  - Appropriate trash Containment.

- ✓ The BMP maintenance Trade Partner has been identified for Vertical Construction.
- ✓ The SWPPP Inspection Provider has been informed the Site now includes Vertical Construction.
- ✓ The Vertical Construction SWPPP Box is on site and compliant, or has been ordered and location determined.
- ✓ The Land Project Management Log has or will be moved from the Land SWPPP Box to the Vertical Construction SWPPP Box.
- ✓ Third Party Developer Projects: A Lennar Land Project Manager has been assigned to the Project for resolving Land related issues with the Third Party Developer.
- ✓ There is an agreement / understanding as to responsibility for BMP maintenance and Plan design issues related to swales, common areas, and individual lots not released for construction.
- ✓ A Construction Manager has been assigned to the community.
- ✓ The Municipal Vertical Construction Inspection process and contact person has been identified, and information provided to the Construction Manager.

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- ✓ The following has been provided to the Vertical Construction Manager:
  - Electronic access or paper copy of a full set of approved Project Plans;
  - **Location of all outfalls and where stormwater discharges from the project site;**
  - Community lot listing (including phase building order;
  - Community information;
  - Vertical Construction has been posted on SafetyPro and CM has access for inspections.

- ✓ The following items have be located on the project site for Vertical Construction as required by the SWPPP;
  - Portable Toilet is stage to required protocol;
  - Concrete Washout with proper signage.

Note: Any action items will be noted in punch list form. Punch list items will be accomplished in a timely manner and reported to the VP of Operations. Should punch list items continue to be unresolved, the V.P. of Operations may choose to delay Vertical Construction until all items are completed, or if items will not interfere with Vertical Construction Phase approve proceeding with construction.

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Protocol for when BMP Maintenance is Required for a Permitted Construction Site.

Introduction - The purpose of this protocol is to provide guidance as to when BMP maintenance is required on a permitted site, and should be noted on an inspection report. On occasion, guidance may be re-directed as required by the enforcement of applicable regulation.

When is maintenance required on a BMP?

- When the BMP is not permitted by applicable regulation.
- When the BMP is not installed correctly.
- When the BMP has failed.
- When the BMP no longer functions as intended.
- When the BMP is being utilized improperly.
- When the BMP is damaged to the extent that sediment is leaving or about to leave the site.

Note: Completed inventory home awaiting permanent stabilization. Continue to inspect and maintain perimeter BMPs routinely. A note will be made in comment section of inspection report regarding lot status.

Note: Transfer of Ownership of a home awaiting permanent stabilization. Perform inspection routinely. Only note maintenance when BMP is about to fail, or when BMP has failed, and creates the potential of a release of sediment into a swale, waterway, street, or stormwater inlet. A note will be made in the comment section of inspection report regarding the lot status.

Third Party SWPPP Inspector Responsibilities:

- The *entire* project site must be inspected noting all BMP maintenance required.
- Rain event inspections will be specific to maintenance required due to the event.
- Inspections need even-flow to avoid bursts of high volume repair and costs related to it.
- Failed printer issues that prevent the provision of a report being placed in the Inspection Log Book, must be resolved within the next day. The Site Manager should be notified.
- Maintenance related to a Third Party Developer should not be listed as an action item on the report. It may be added to comments if the items is a significant failure of a BMP. The CM should be notified.
- When you have a question regarding an item on the report, the site CM is your immediate contact. Questions needing immediate response should communicated via phone or text.
- The Third Party Inspector will meet with the CM / LPM after every inspection to review maintenance items. The CM /LPM will provide final direction regarding items to be included in the report.

BMP Maintenance Trades Attention:

- Make certain all repairs on a report are accomplished within five days of the report;
- Notify the site CM when you will begin repairs and when you are finished;
- Repairs that are reported to be oversighted must be accomplished within the next day;
- When you have a question regarding an item on the report, the site CM is your immediate contact. Questions needing immediate response should communicated via phone or text.

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THIS SHEET TO BE USED FOR EROSION CONTROL ONLY.

PERSON ONSITE RESPONSIBLE FOR EROSION CONTROL:
STUART HUCKELBERRY
LENNAR HOMES OF INDIANA, LLC
Phone: (317) 659-3200

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE
MCCORDSVILLE, INDIANA

SWPPP DETAILS

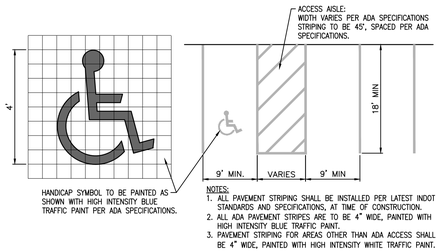
PRELIMINARY
NOT FOR CONSTRUCTION

CHRISTOPHER K. ECKHORN
REGISTERED
No. 11400758
STATE OF INDIANA
PROFESSIONAL ENGINEER

Kristopher K. Eckhorn

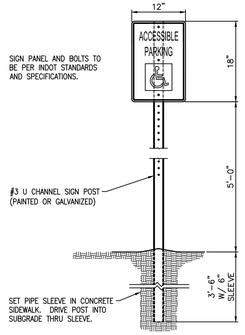
DRAWN BY	JOB NUMBER 2019-003-A
TS	
CHECKED BY	
KE	
DATE	
MARCH 2022	
SCALE	
AS SHOWN	
SHEET	
C8.4	
SWPPP DETAILS	

Plot Date: Aug 22, 2022 Plot Time: 4:54pm File Name: W:\calatlantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\19263-A_SWPP Notes and Details.dwg, Layout: C8.4 By: keichhorn

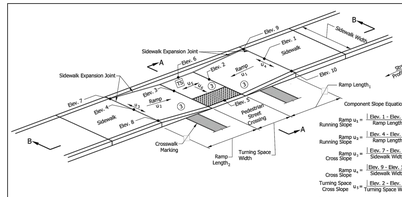


NOTES:
1. ALL PAVEMENT STRIPING SHALL BE INSTALLED PER LATEST INDOT STANDARDS AND SPECIFICATIONS, AT TIME OF CONSTRUCTION.
2. ALL ADA PAVEMENT STRIPES ARE TO BE 4" WIDE, PAINTED WITH HIGH INTENSITY BLUE TRAFFIC PAINT.
3. PAVEMENT STRIPING FOR AREAS OTHER THAN ADA ACCESS SHALL BE 4" WIDE, PAINTED WITH HIGH INTENSITY WHITE TRAFFIC PAINT.

9 PAVEMENT MARKING DETAILS
NOT TO SCALE



10 HANDICAP PARKING SIGN
NOT TO SCALE



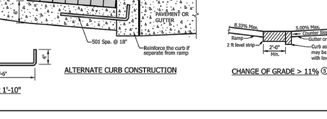
NOTES:
1. The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.
2. The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the back of the sidewalk, the minimum clear dimension shall be 4 ft x 5 ft, with the 5-ft dimension in the direction of the ramp running slope.
3. Curb ramp surface shall be coarse broomed transverse to the running slope.
4. Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SIDWK for sidewalk details.
5. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
6. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
7. See Standard Drawing E 604-CCSD-01 for sidewalk expansion joint details.

LEGEND:
Ramp
Detectable Warning Surface
TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION
PARALLEL CURB RAMP COMPONENT DETAILS
SEPTEMBER 2018
STANDARD DRAWING NO. E 604-SWCR-08

ELIZABETH W. PHILLIPS, No. 10200124, STATE OF INDIANA, REGISTERED PROFESSIONAL ENGINEER
/s/ Elizabeth W. Phillips 03/29/18
DESIGN STANDARDS ENGINEER DATE
/s/ John Lecky 04/25/18
CHIEF ENGINEER DATE

6 ADA RAMP DETAIL
NOT TO SCALE



NOTES:
3. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
2. Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:
Buffer or Other Non-Walkable Surface
Ramp
Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP TYPICAL PLACEMENT
SEPTEMBER 2016
STANDARD DRAWING NO. E 604-SWCR-05

ELIZABETH W. PHILLIPS, No. 10200124, STATE OF INDIANA, REGISTERED PROFESSIONAL ENGINEER
/s/ Elizabeth W. Phillips 03/11/16
DESIGN STANDARDS ENGINEER DATE
/s/ Mark A. Miller 03/18/16
CHIEF ENGINEER DATE

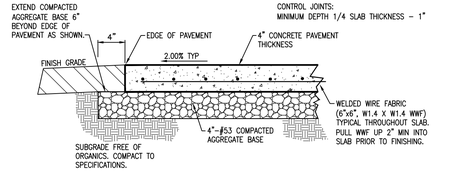
7 ADA RAMP DETAIL
NOT TO SCALE

NOTES:
1. Detectable warning surface shall consist of truncated domes and shall be aligned in a square or radial grid pattern. Where truncated domes are arrayed radially, they may differ in diameter and center-to-center spacing within the ranges specified.
2. The detectable warning surface shall be manufactured to fit the radii. Field cutting shall not alter the truncated dome spacing between the adjacent panels outside of the allowable range.
3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2-ft minimum level strip should be provided at the bottom of the ramp.
6. Where concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not exceed 2 in. within the ramp width.
7. Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

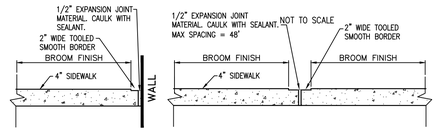
INDIANA DEPARTMENT OF TRANSPORTATION
DETECTABLE WARNING SURFACE DETAILS
SEPTEMBER 2016
STANDARD DRAWING NO. E 604-SWCR-14

ELIZABETH W. PHILLIPS, No. 10200124, STATE OF INDIANA, REGISTERED PROFESSIONAL ENGINEER
/s/ Elizabeth W. Phillips 03/11/16
DESIGN STANDARDS ENGINEER DATE
/s/ Mark A. Miller 03/18/16
CHIEF ENGINEER DATE

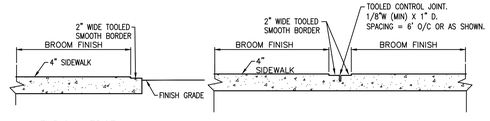
8 ADA RAMP DETAIL
NOT TO SCALE



1 CONCRETE SIDEWALK
NOT TO SCALE

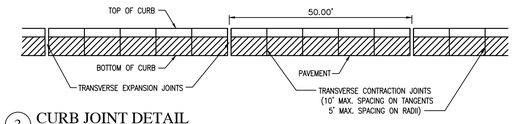


EXPANSION JOINTS

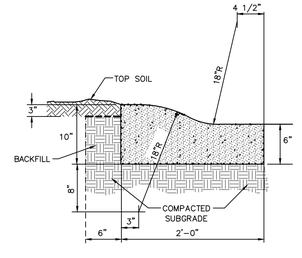


CONTROL JOINTS

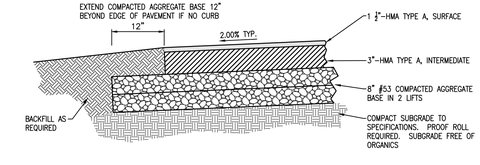
2 CONCRETE SIDEWALK JOINT & FINISHING DETAILS
NOT TO SCALE



3 CURB JOINT DETAIL
NOT TO SCALE



4 2' CONCRETE ROLL CURB (REVERSE SLOPE)
NOT TO SCALE



5 ASPHALT PAVEMENT SECTION
NOT TO SCALE

REVISIONS		
DATE	DESCRIPTION	BY

HWC ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNCIE - NEW ALBANY
www.hwcengineering.com

MCCORD POINTE SEC. 7 AMENITY AREA
MCCORDSVILLE, INDIANA

CONSTRUCTION DETAILS

PRELIMINARY
NOT FOR CONSTRUCTION
CHRISTOPHER K. LUCHSON, REGISTERED, No. 11400758, STATE OF INDIANA, PROFESSIONAL ENGINEER
Kristopher K Luchson

DRAWN BY	JOB NUMBER 2019-003-A
TD/GM	
CHECKED BY	
KE	
DATE	
MARCH 2022	
SCALE	
AS SHOWN	

SHEET
C8.5
CONSTRUCTION DETAILS

Plot Date: Aug 22, 2022 Plot Time: 4:45pm File Name: W:\coiltantic homes\2019-263-a lennar- mccord pointe amenity\Design\CAD\section 7 amenity center\1263-A. Const Details.dwg Layout: C8.5 By: kelchhorn