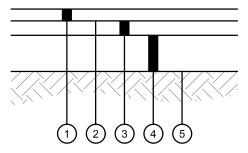
# A GENERAL NOTES

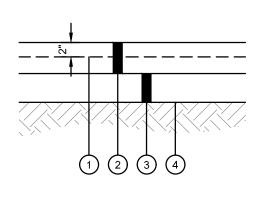
Ш	1.	THE CITY OF CINCINNATI, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF CINCINNATI REQUIREMENTS, THE CITY OF CINCINNATI REQUIREMENTS SHALL PREVAIL.
	2.	THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
	4. 5. 6. 7. 8.	REGULATIONS. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK, FAILURE TO VISIT THE SITE SHALL NOT RELIEVE HIM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
U	9.	ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
0 K M I N C	11. 12. 13. 14. 15.	ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (DDNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: DIVISION OF WATER, OHIO DEPARTMENT OF NATURAL RESOURCES, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224, (614)2656717. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT. THE CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT FOR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.
Ц С		CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
R A N	2. 3. 4.	PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE
•	5. 6. 7.	GEOTECHNICAL ENGINEER. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS-BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF CINCINNATI AND THE OHIO EPA.
Z U	9.	ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY. ILITY NOTES ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING
S Ш	2.	STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE
	3.	UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
	4.	UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
Ш >	5. 6. 7.	COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES AND CONFORM TO ADA
	8. 9.	REQUIREMENTS. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED. ALL CATCH BASINS WITH DEPTH GREATER THAN 4.5' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT
А Ш	10.	ITEM 611. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 4' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
2		DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
U		IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
		ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
		ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
Ш Ч Д		ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
О Ш		ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
٩.	22.	ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
О Ш	24.	ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER. SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF
2		CINCINNATI. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF CINCINNATI AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER
A S V	27.	THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER. WATERLINE SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI. WATERLINE 2 INCHES AND UNDER TO BE "K" COPPER OR
		POLYTUBING.



- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE (1)SURFACE COURSE, TYPE 1, PG64-22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
  - 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
  - (4)8" ODOT ITEM 304 AGGREGATE BASE
  - SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

# STANDARD DUTY ASPHALT PAVEMENT DETAIL

N.T.S

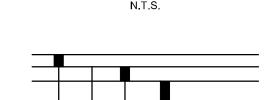


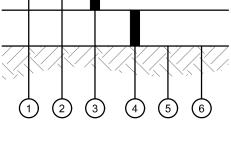
- (1)6X6 W4XW4 WELDED WIRE REINFORCEMENT
- 8" ODOT ITEM 452 NONREINFORCED PORTLAND (2)CEMENT CONCRETE PAVEMENT
- (3) 6" ODOT ITEM 304 AGGREGATE BASE

2

3 C100

- SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT
- HEAVY DUTY CONCRETE PAVEMENT DETAIL

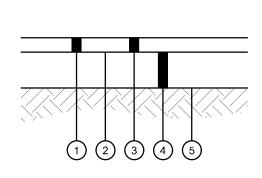




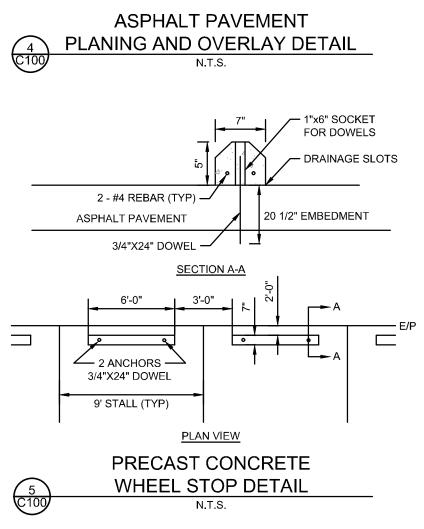
- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 4" ODOT ITEM 441 ASPHALT CONCRETE
- INTERMEDIATE COURSE, TYPE 2, PG64-22
- 4 8" ODOT ITEM 304 AGGREGATE BASE
- WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09
- (5)TYPE D
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM (6) 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

#### HEAVY DUTY ASPHALT PAVEMENT DETAIL

N.T.S.



- 1 1/2" ODOT ITEM 254 PAVEMENT PLANING, (1)ASPHALT CONCRETE
- 2 ODOT ITEM 407 TACK COAT
- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE
- SURFACE COURSE, TYPE 1, PG64-22
- (4)EXISTING PAVEMENT SECTION
- (5)EXISTING SUBGRADE



NOTES:

SLOPE OF 2.00%.

DOORS.

8 C100

WITH THE FINAL SURFACE.

1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS

SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.

3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS

4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH

5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING

EXTERIOR CONCRETE SLAB WALK

WITH INTEGRAL CURB DETAIL

N.T.S.

WIDE BY 1 1/2" DEEP AND. JOINTS TO BE TOOLED, SAWED.

6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING

WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS

INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8"

60. pt

50:1 MAX. SLOPE

1'-6"

24" WIDE

4" THICK\*

CONCRETE

6A. NAT.

MAX

24" WIDE

4" THICK\*

CONCRETE

(10) (C100)

SURFACE OF PAVEMENT

PAVEMENT

STREET

GRADE BREAK —

PAVEMENT

<sup>4'-0"</sup> MIN

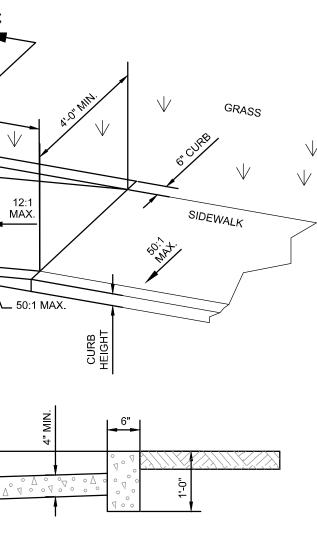
5'-0" PREF

LANDING

С

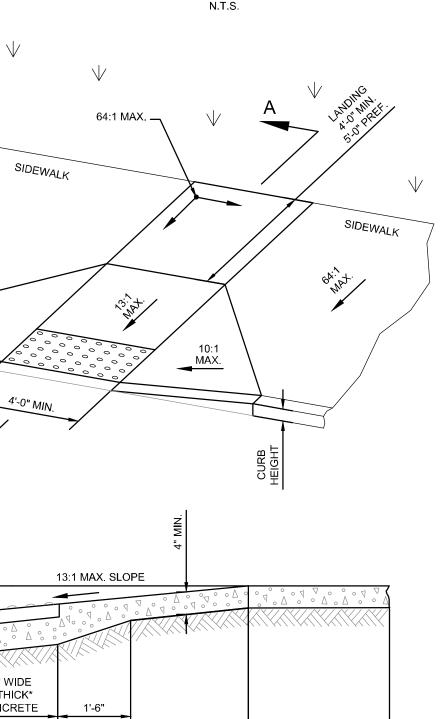
GRADE BREAK

- NOTES: GENERAL 1. DETECTABLE WARNINGS ARE A DISTINCTIVE SURFACE PATTERN OF TRUNCATED DOMES WHICH ARE DETECTABLE BY CANE OR UNDERFOOT TO ALERT PEOPLE WITH VISION IMPAIRMENTS OF THEIR APPROACH TO STREETS AND HAZARDOUS DROP-OFFS. PLACEMENT SIDEWALK 2. DETECTABLE WARNINGS ARE TO BE INSTALLED AT ANY LOCATION WHERE PEDESTRIANS MIGHT CROSS PATHS 80. H WITH VEHICULAR TRAFFIC LANES, SUCH AS THE BASE OF CURB RAMPS OR AT BLENDED CURBS. A 24" STRIP OF DOMES IS TO BE INSTALLED FOR THE FULL WIDTH OF THE RAMP OR WALK. 3. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4". PRODUCTS & COLORS 4. COLOR OF THE DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND 50:1 MAX. 🜙 RAMP. BLACK IS NOT AN ACCEPTABLE COLOR. APPROVED PRODUCTS AND GUIDANCE ON COLOR MAY BE FOUND ON THE ODOT OFFICE OF ROADWAY ENGINEERING SERVICE'S DETECTABLE WARNINGS APPROVED LIST. INSTALL PRODUCTS AS PER MANUFACTURER'S PRINTED INSTRUCTIONS. 1.6" MIN. 2.4" MAX. 50% TO 65% OF BASE DIAMETER PAVEMENT 0.9" MIN. DIRECTION 1.4" MAX. OF RAMP SQUARE PATTERN, HEIGHT AND DIAMETER PARALLEL ALIGNMENT DETECTABLE WARNINGS DETAIL N.T.S. BUILDING 🔨 LINE - JOINT SEALANT JOINT SEALANT 1/2" \ - EXPANSION JOINT - EXPANSION JOINT - MATERIAL MATERIAL CONTROL JOINT WALK EDGE EXPANSION JOINT AT BUILDING LINE SLOPE -----∠ 5" ODOT ITEM 304 WALK TYPICAL SECTION WALK EDGE AT LAWN ARE NOTES: 1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES. WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP. JOINTS TO BE TOOLED, SAWED. 3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%. 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE. 5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS. 6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL. **EXTERIOR CONCRETE** SLAB WALK DETAIL C100 N.T.S. BUILDING 🔨 LINE - JOINT SEALANT JOINT SEALANT 1/2" EXPANSION JOINT - EXPANSION JOINT MATERIAL MATERIAL 06060606060 1/4" R -JOINT SEALER CONTROL JOINT EXPANSION JOINT WALK EDGE AT BUILDING LINE PREFORMED JOINT MATERIAL ODOT ITEM 705.03 WHEN ADJACENT TO RIGID PAVEMENT OR SLOPE -----CONCRETE BASES - SEAL Δ. Δ. <sup>Δ</sup>. Δ. BARRIER CURB DETAIL CONTROL -PAVEMENT JOINT (TYP) **ITEM 304** WALK TYPICAL SECTION 6" HIGH CURE AT PAVEMENT EDGE
  - ROUND OFF CONC. TOP TO SMOOTH FINISH - 6" DIA. GALV. STEEL PIPE FILL WITH CONCRETE -CONC. TO BE 4000PSI WITH 4-5% AIR ENTRAINMENT - PAINT SAFETY YELLOW - SLOPE AWAY FOR PROPER DRAINAGE - FINISH GRADE 18" DIA. CONC. BASE PIPE BOLLARD DETAIL N.T.S.



# SECTION C-C

# CURB RAMP DETAIL - DOUBLE SIDED PARALLEL

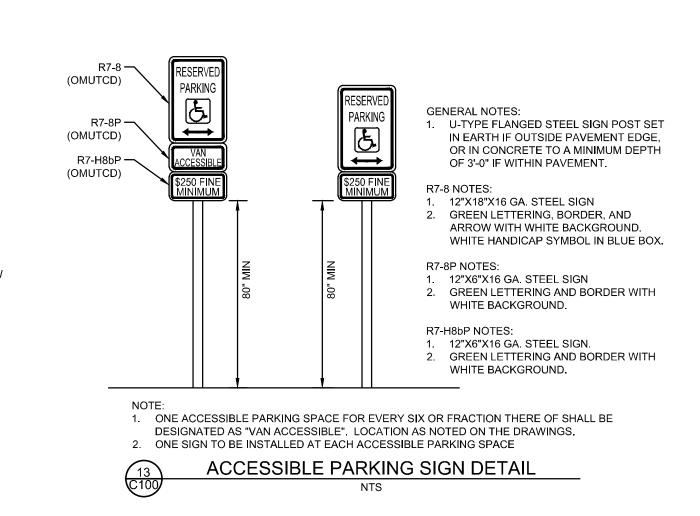


SECTION A-A

RAMP

#### CURB RAMP DETAIL - PERPENDICULAR WITH FLARED SIDES N.T.S.

LANDING



NOTES:

- 1. WHILE RAMPS MAY BE SKEWED TO THE CROSSWALK, THE ENTIRE LOWER LANDING AREA MUST FALL WITHIN THE CROSS WALK THAT THE RAMP SERVES AND CANNOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC.
- THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITIONS SHALL BE 20:1 OR FLATTER.
- THE BOTTOM EDGE OF THE RAMP SHALL CHANGE PLANES PERPENDICULAR TO THE LANDING.

**KLEINGERS** 

CIVIL ENGINEERING | www.kleingers.com

**ARCHITECTURE** 513.779.7851

SURVEYING

LANDSCAPE

SEAL:

TE OF

STEVEN

KORTE

E-61033

GROUP

6219 Centre Park Dr.

West Chester, OH 45069

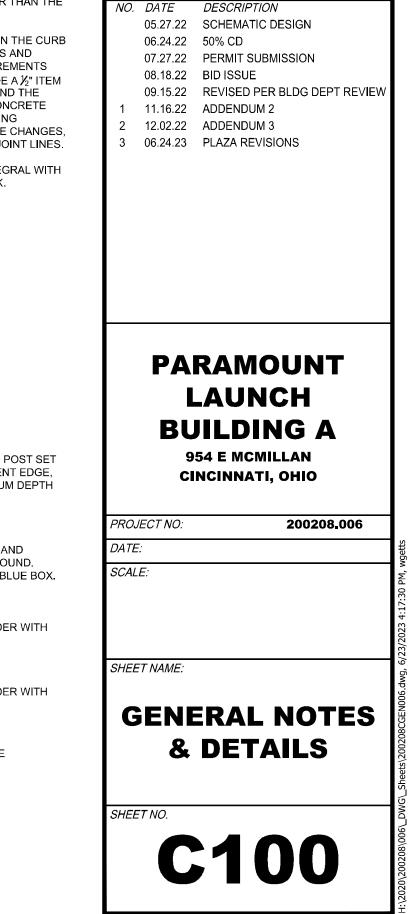
- THE EDGE OF THE CURB SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER AND SURFACE SLOPES THAT MEET GRADE BREAKS SHALL ALSO BE FLUSH.
- RAMP LANDINGS SHALL BE 4' MIN. X 4' MIN. WITH A 50:1 OR FLATTER CROSS SLOPE AND RUNNING SLOPE.
- 6. DETECTABLE WARNINGS: INSTALL DETECTABLE WARNINGS ON EACH CURB RAMP WITH APPROVED MATERIALS, AS SHOWN IN SEPARATE DETAIL. INSTALL THESE PROPRIETY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS
- DRAINAGE: CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB RAMP ALLOWS FOR PROPER DRAINAGE, WITHOUT EXCEEDING ALLOWABLE CROSS SLOPE OR RAMP SLOPES. VERTICAL CHANGE IN LEVEL EXCEEDING ⅛" BETWEEN THE 1) PAVEMENT AND GUTTER, AND 2) GUTTER AND RAMP, ARE NOT ALLOWED.
- SURFACE TEXTURE: TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK.
- JOINTS: PROVIDE EXPANSION JOINTS IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK. PROVIDE A 1/2" ITEM 705.03 EXPANSION JOINT FILLER AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALKS. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGES AND SLOPE CHANGES, AND DO NOT NECESSARILY INDICATE JOINT LINES.

\*WHERE POSSIBLE, POUR RAMP AREA INTEGRAL WITH THE CURB, OTHERWISE USE 6" THICK WALK.

# NOTES:

- 1. WHILE RAMPS MAY BE SKEWED TO THE CROSSWALK, THE ENTIRE LOWER LANDING AREA MUST FALL WITHIN THE CROSS WALK THAT THE RAMP SERVES AND CANNOT BE LOCATED IN THE TRAVELED LANE OF OPPOSING TRAFFIC
- 2. THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITIONS SHALL BE 20:1 OR FLATTER.
- 3. THE BOTTOM EDGE OF THE RAMP SHALL CHANGE PLANES PERPENDICULAR TO THE LANDING.
- 4. THE EDGE OF THE CURB SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER AND SURFACE SLOPES THAT MEET GRADE BREAKS SHALL ALSO BE FLUSH.
- 5. RAMP LANDINGS SHALL BE 4' MIN. X 4' MIN. WITH A 64:1 OR FLATTER CROSS SLOPE AND RUNNING SLOPE.
- 6. DETECTABLE WARNINGS: INSTALL DETECTABLE WARNINGS ON EACH CURB RAMP WITH APPROVED MATERIALS, AS SHOWN IN SEPARATE DETAIL. INSTALL THESE PROPRIETY PRODUCTS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 7. DRAINAGE: CONTRACTOR IS TO ENSURE THE BASE OF EACH CONSTRUCTED CURB RAMP ALLOWS FOR PROPER DRAINAGE, WITHOUT EXCEEDING ALLOWABLE CROSS SLOPE OR RAMP SLOPES. VERTICAL CHANGE IN LEVEL EXCEEDING  $\chi_{\rm S}$ " BETWEEN THE 1) PAVEMENT AND GUTTER, AND 2) GUTTER AND RAMP, ARE NOT ALLOWED.
- 8. SURFACE TEXTURE: TEXTURE CONCRETE SURFACES BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES TO BE ROUGHER THAN THE ADJACENT WALK
- 9. JOINTS: PROVIDE EXPANSION JOINTS IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK. PROVIDE A 1/2" ITEM 705.03 EXPANSION JOINT FILLER AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALKS. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGES AND SLOPE CHANGES AND DO NOT NECESSARILY INDICATE JOINT LINES.

\*WHERE POSSIBLE, POUR RAMP AREA INTEGRAL WITH THE CURB, OTHERWISE USE 6" THICK WALK.



FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE COMMITMENT NO. OH-FAM-16-001339 EFFECTIVE DATE: JUNE 19, 2020

- 12. PROVISIONS (B) FOR NON-DISCRIMINATION COVENANTS, (C) FOR OPEN-OCCUPANCY CONDITIONS AND (D) FOR THE PROHIBITION OF LEAD-BASED PAINT, AS SUCH AGREEMENTS AND CONDITIONS ARE SET FORTH IN QUIT CLAIM DEED DATED AUGUST 31, 1982 AND RECORDED SEPTEMBER 10, 1982 IN DEED BOOK 4227, PAGE 565, HAMILTON COUNTY, OHIO RECORDS, AS AFFECTED BY: (DOCUMENT PERTAINS TO SURVEYED PROPERTY- BLANKET IN NATURE- NOT PLOTTED)
- AS AFFECTED BY CERTIFICATE OF COMPLETION RECORDED IN DEED BOOK 4259, PAGE 692, HAMILTON COUNTY, OHIO RECORDS.
- (DOCUMENT PERTAINS TO SURVEYED PROPERTY- BLANKET IN NATURE- NOT PLOTTED) AS AFFECTED BY AFFIDAVIT OF FACTS IN AID OF TITLE AND RELEASE OF DEED RESTRICTION RECORDED NOVEMBER 6, 2017 IN OFFICIAL RECORD BOOK 13539, PAGE 2485, HAMILTON COUNTY, OHIO RECORDS. (DOCUMENT PERTAINS TO SURVEYED PROPERTY- BLANKET IN NATURE- NOT PLOTTED)
- EASEMENTS AS GRANTED AND RESERVED IN DEED RECORDED IN DEED BOOK 1221, PAGE 437 AND DEED RECORDED IN DEED BOOK 1376, PAGE 471, HAMILTON COUNTY, OHIO RECORDS. (SUBJECT EASEMENT IS LOCATED ON OVER OR ACROSS SURVEYED PROPERTY-APPROX. LOCATION PLOTTED AND LABELED AS ITEM #13)
- RESERVATION FOR THE WIDENING OF MCMILLAN AVENUE AND THE RIGHT TO USE AND MAINTAIN ANY AND ALL SEWER, GAS, WATER, STEAM AND/OR DRAIN PIPES, AS SET FORTH IN INSTRUMENT RECORDED IN DEED BOOK 1782, PAGE 607, HAMILTON COUNTY, OHIO RECORDS. (SUBJECT EASEMENT IS LOCATED ON OVER OR ACROSS SURVEYED PROPERTY-LOCATION PLOTTED AND LABELED AS ITEM #14)
- EASEMENT FOR DRIVEWAY AS SET FORTH IN EASEMENT RECORDED IN DEED BOOK 2770, PAGE 355, HAMILTON COUNTY, OHIO RECORDS, INCLUDING ALL MAINTENANCE OBLIGATIONS, COSTS, AND RESTRICTIONS AS SET FORTH THEREIN. (DOCUMENT PERTAINS TO SURVEYED PROPERTY -BLANKET IN NATURE - NOT PLOTTED)
- CONTRACT FOR SALE OF LAND FOR PRIVATE DEVELOPMENT BY AND BETWEEN CITY OF CINCINNATI, A MUNICIPAL CORPORATION, AND KOETZLE DEVELOPMENT CORPORATION, AN OHIO CORPORATION, DATED OCTOBER 31, 1979 AND RECORDED IN MORTGAGE BOOK 4413, PAGE 1587 AND RE-RECORDED IN MORTGAGE BOOK 4415, PAGE 295, HAMILTON COUNTY, OHIO RECORDS, AS AFFECTED BY:
- ASSIGNMENT AGREEMENT FROM KOETZLE DEVELOPMENT CORPORATION (ASSIGNOR) TO WINSTON E. FOLKERS (ASSIGNEE), DATED JULY 2, 1982 AND RECORDED SEPTEMBER 1, 1982 IN RELEASE BOOK 339, PAGE 817, HAMILTON COUNTY, OHIO RECORDS.
- ADDENDUM TO CONTRACT FOR SALE OF LAND FOR PRIVATE REDEVELOPMENT RECORDED SEPTEMBER 1, 1982 IN MORTGAGE BOOK 4415, PAGE 352, HAMILTON COUNTY, OHIO RECORDS.
- (SUBJECT EASEMENT IS LOCATED ON OVER OR ACROSS SURVEYED PROPERTY PLOTTED AND LABELED AS ITEM #18)
- . GROUND LEASE INCLUDING BUT NOT LIMITED TO (I) A RIGHT OF FIRST REFUSAL AND (II) THE SEVERANCE AND SEPARATE OWNERSHIP OF FEE SIMPLE TITLE TO THE IMPROVEMENTS IN FAVOR OF THE TENANT, BY AND BETWEEN WINSTON E. FOLKERS AND THE KROGER CO., AN OHIO CORPORATION, DATED AUGUST 20, 1982 AND RECORDED SEPTEMBER 10, 1982 IN LEASE BOOK 335, PAGE 156, HAMILTON COUNTY, OHIO RECORDS, AS AFFECTED BY:
- GROUND LEASE AMENDMENT RECORDED JANUARY 11, 1984 IN LEASE BOOK 335, PAGE 1079, HAMILTON COUNTY, OHIO RECORDS.
- TRANSFER AND ASSIGNMENT OF GROUND LEASE AGREEMENT FROM THE KROGER CO, AN OHIO CORPORATION (ASSIGNOR) TO KANSIANA PROPERTIES CORP., A DELAWARE CORPORATION (ASSIGNEE), RECORDED FEBRUARY 7, 1984 IN LEASE BOOK 335, PAGE 1136, HAMILTON COUNTY, OHIO RECORDS.
- TRANSFER AND ASSIGNMENT OF GROUND LEASE AGREEMENT AND DEED TO IMPROVEMENT FROM KANSIANA PROPERTIES CORP., A DELAWARE CORPORATION (ASSIGNOR) TO KANSIANA ASSOCIATES, L.P., A DELAWARE LIMITED PARTNERSHIP (ASSIGNEE), RECORDED NOVEMBER 27, 1984 IN LEASE BOOK 351, PAGE 88 AND DEED BOOK 4301, PAGE 592, HAMILTON COUNTY, OHIO RECORDS.
- ASSIGNMENT AND ASSUMPTION OF GROUND LEASE, TWO PARTY AGREEMENT AND COLLATERAL ASSIGNMENT OF LEASE FROM KANSIANA ASSOCIATES, L.P., A DELAWARE LIMITED PARTNERSHIP (ASSIGNOR) TO AMCAP ACADIA CINCINNATI, LLC, A DELAWARE LIMITED LIABILITY COMPANY (ASSIGNEE), RECORDED JANUARY 29, 2003 IN OFFICIAL RECORD BOOK 9152, PAGE 2233, HAMILTON COUNTY, OHIO RECORDS.
- ASSIGNMENT AND ASSUMPTION OF GROUND LEASE FROM AMCAP ACADIA CINCINNATI, LLC, A DELAWARE LIMITED LIABILITY COMPANY (ASSIGNOR) TO JPF-AG/CINCINNATI, LLC, A DELAWARE LIMITED LIABILITY COMPANY (ASSIGNEE), DATED NOVEMBER 30, 2011 AND RECORDED DECEMBER 16, 2011 AND RECORDED DECEMBER 16, 2011 IN OFFICIAL RECORD BOOK 11896, PAGE 628, HAMILTON COUNTY, OHIO RECORDS.
- MEMORANDUM OF ASSIGNMENT AND ASSUMPTION OF GROUND LEASE AGREEMENT FROM JPF-AG/CINCINNATI, A DELAWARE LIMITED LIABILITY COMPANY (ASSIGNOR) TO WHRF HOLDINGS III, LLC, AN OHIO NON PROFIT LIMITED LIABILITY COMPANY (ASSIGNEE), DATED OCTOBER 31, 2017 AND RECORDED NOVEMBER 6, 2017 IN OFFICIAL RECORD BOOK 13539, PAGE 2491, HAMILTON COUNTY, OHIO RECORDS. (DOCUMENT PERTAINS TO SURVEYED PROPERTY -BLANKET IN NATURE - NOT PLOTTED)
- EASEMENTS WHICH MAY LIE WITHIN THE PORTIONS OF THE PROPERTY COMPRISED OF THE VACATED VAIL STREET, SAME HAVING BEEN VACATED BY CITY OF CINCINNATI PER ORDINANCE NO. 419-1937, A CERTIFIED COPY BEING RECORDED IN DEED BOOK 1770, PAGE 649, HAMILTON COUNTY, OHIO RECORDS. (SUBJECT EASEMENT IS LOCATED ON OVER OR ACROSS SURVEYED PROPERTY PLOTTED AND

LABELED AS ITEM #21)

(N00°24'30"E DEED) (N89°15'00"W DEED) N05°59'18"E 183°40'22"W 67. BLDG COR N83°40'22" RT N/ 15'00"W DFF

TOP = 836.25

LBERTAVE

TOP = 839.08

INV = 826.16

TOP = 836.65

INV = 833.45

INGRESS EGRESS

ROSS NOTCH SE

D.B. 4415 PG. 352

*₩EASEMENT* 

067-0003-0001

PORT OF GREATER CINCINNATI

DEVELOPMENT AUTHORITY

O.R. 13568 PG . 466

0.7162 ACRES (DEED)

P.B. 448 PG. 61

SECTION 7

INV (N, S) = 823.46

INV (E) = 823.8

TOP = 837.15

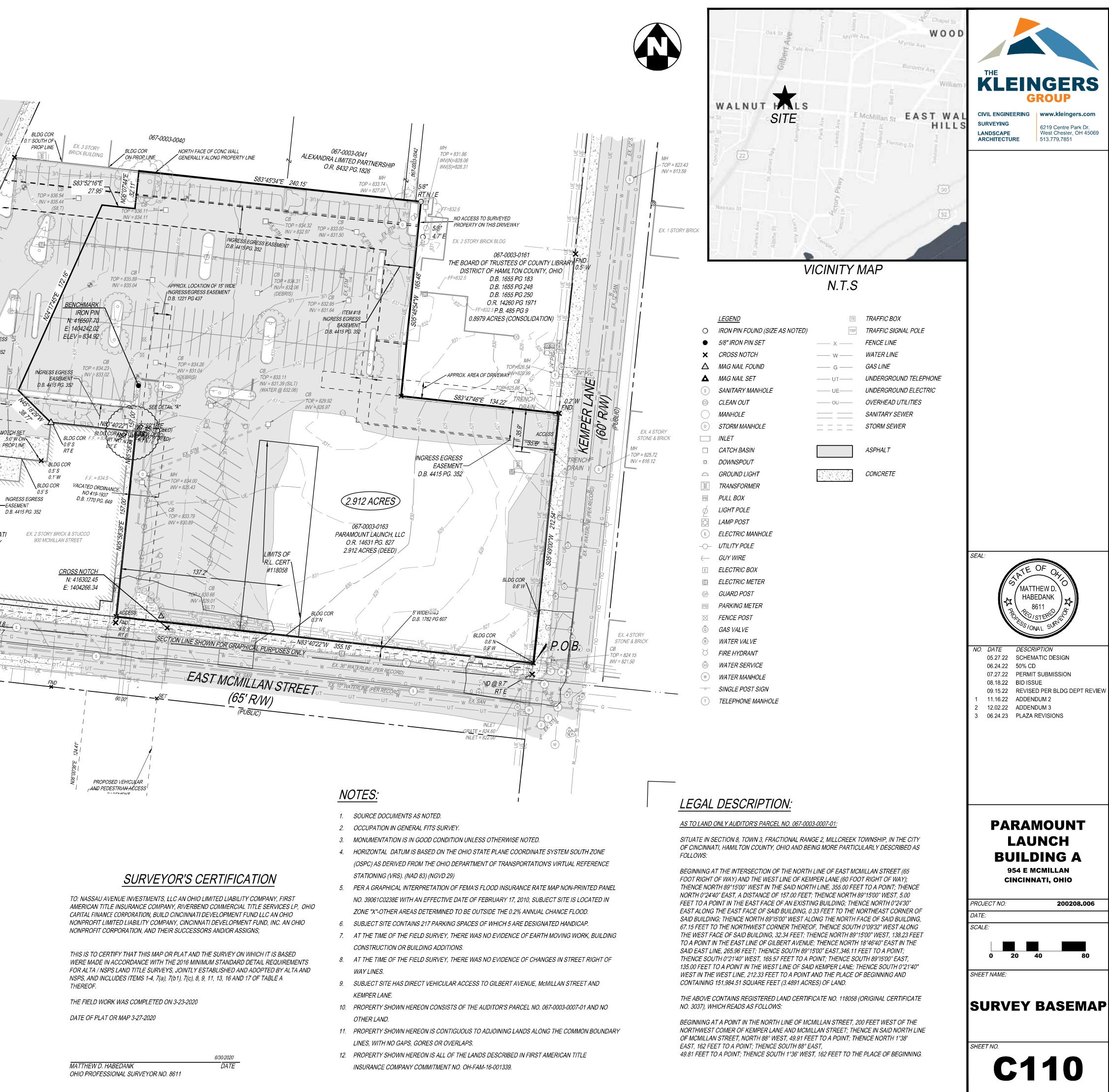
(N, S) = 824.36

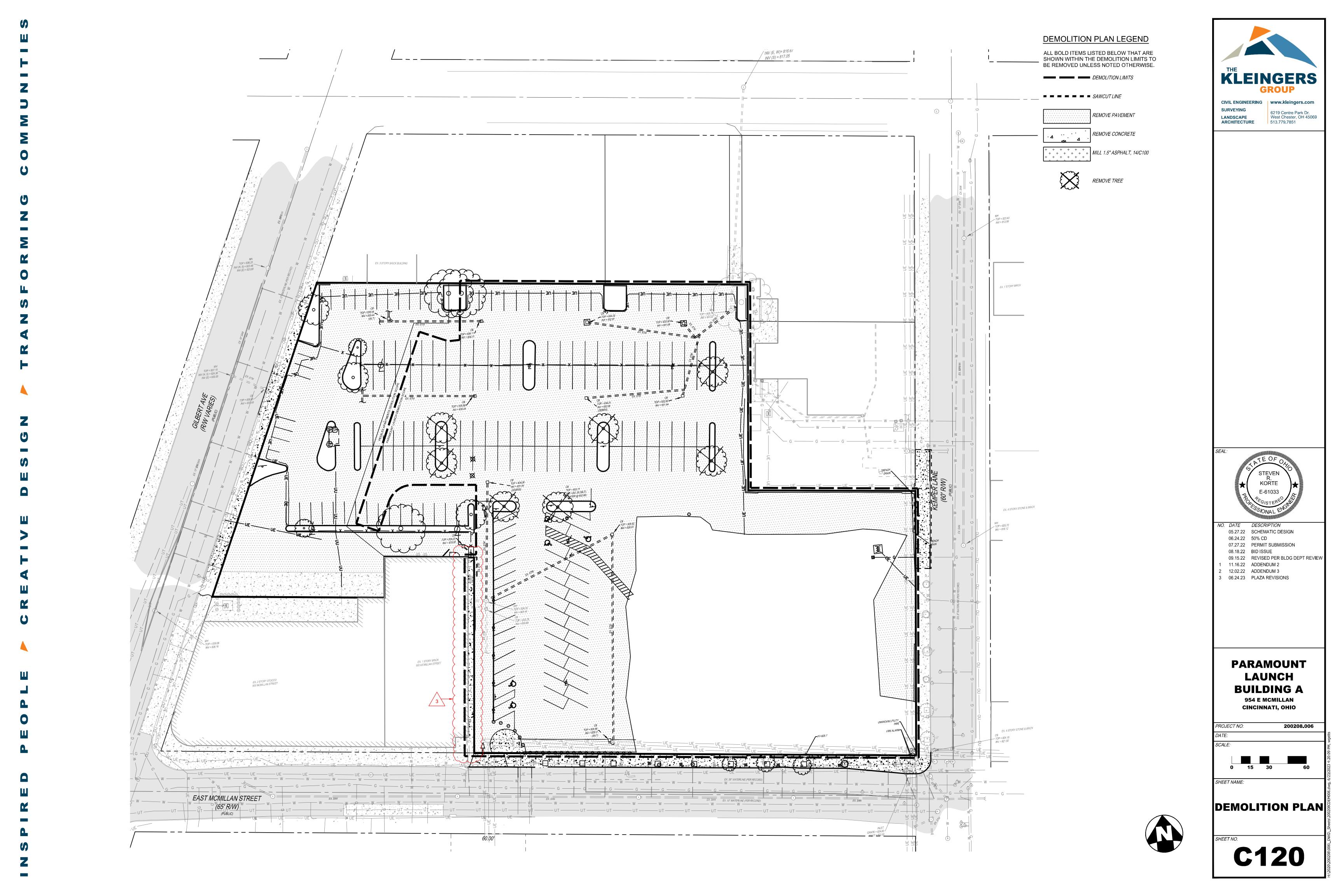
INV (E) = 830.05

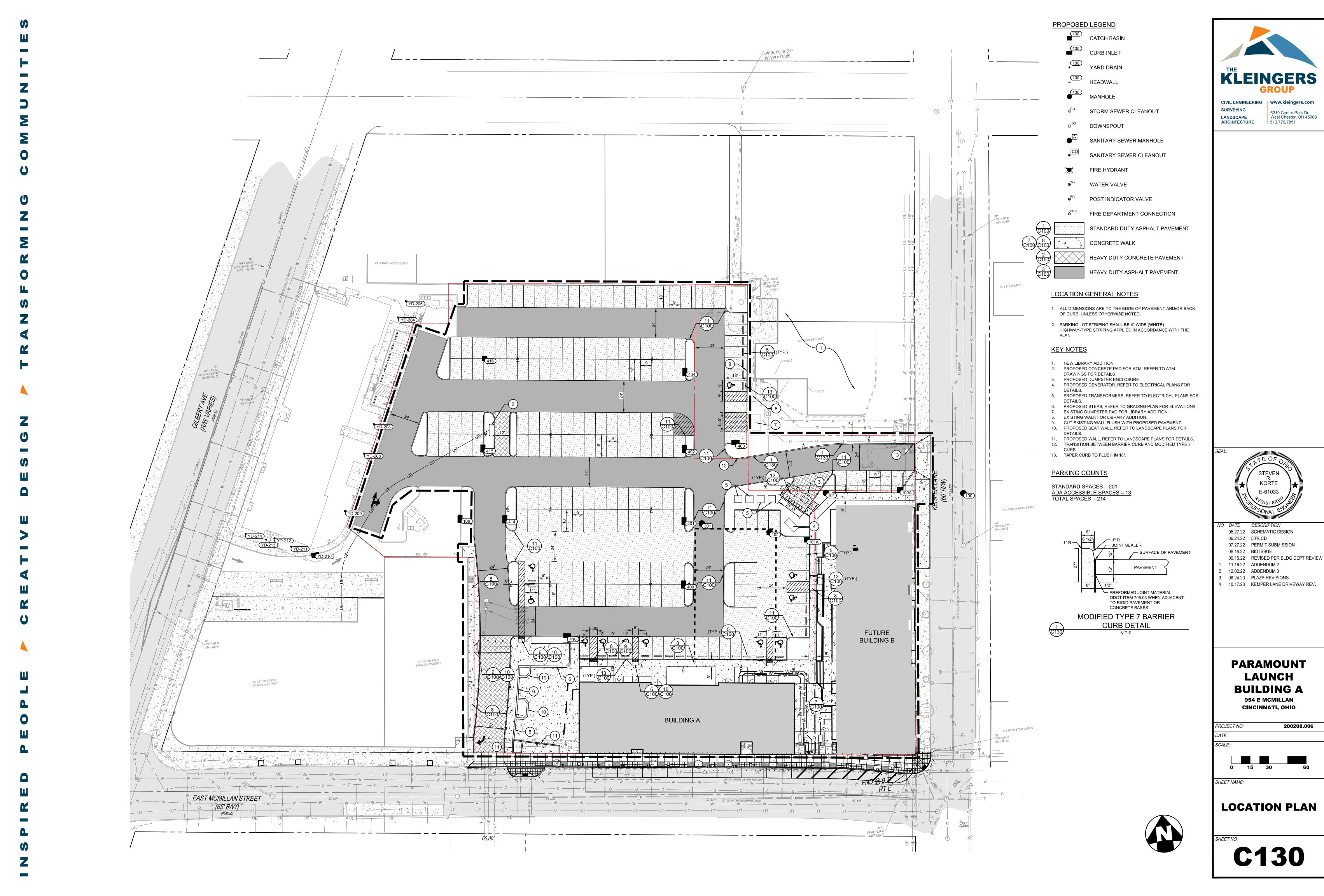
DETAIL "A" SCALE 1" = 5'

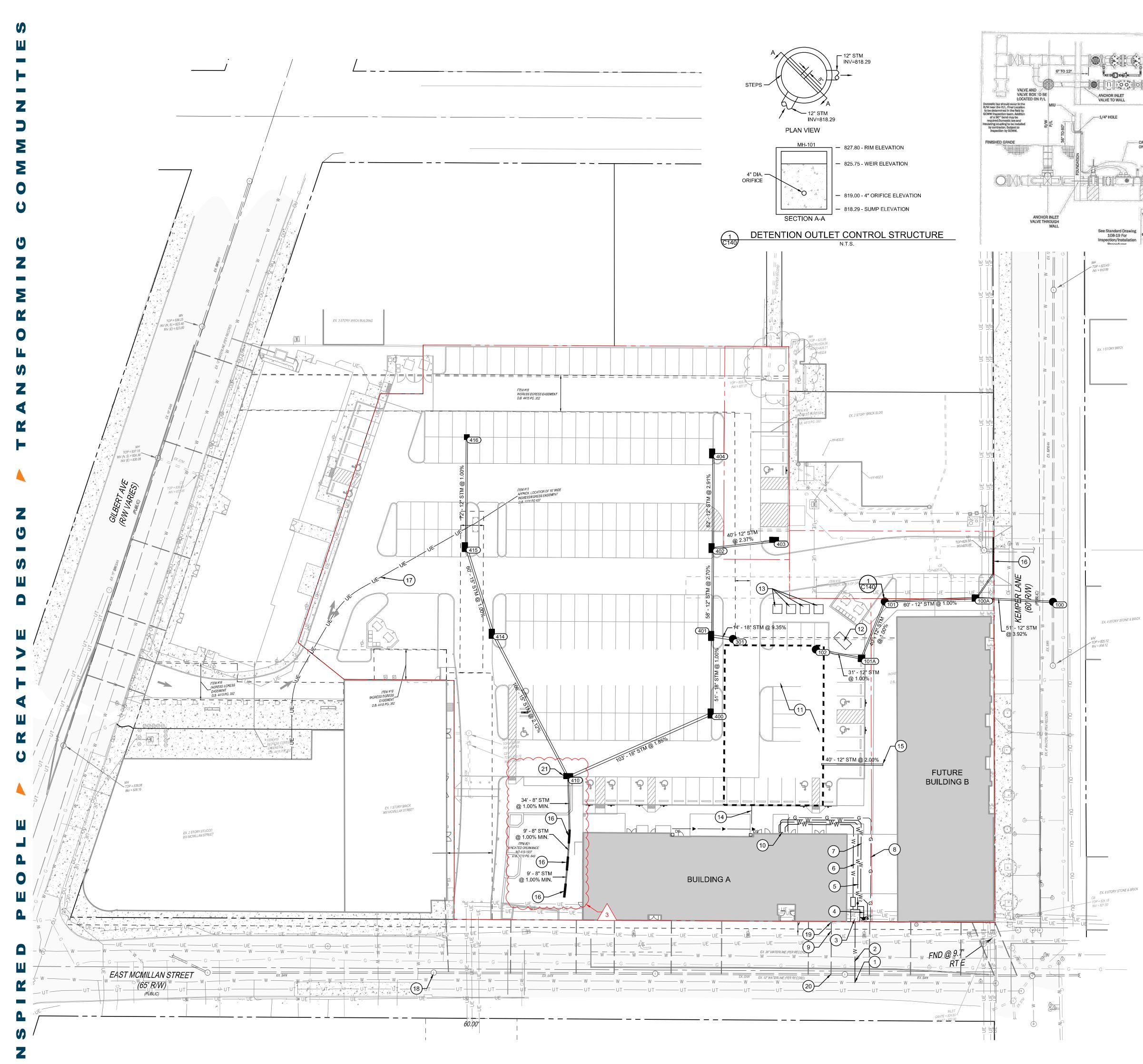
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 811 OR 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.







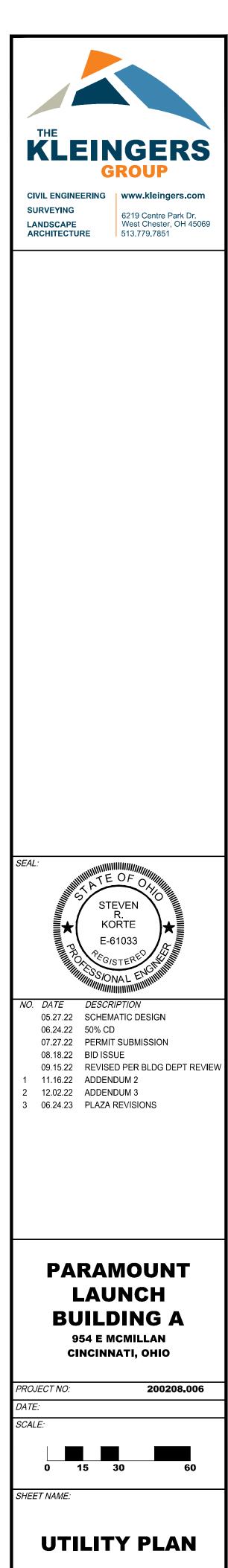




		PROPOSE	ED LEGEND						
	DETAILS: A) SEE 108-1D, & 1E FOR MATERIAL	STM	STORM SEWER PIPE						
NW N	SPECIFICATIONS AND 108-1F FOR EMR SPECIFICATIONS. B) SEE 108-8A FOR PIPING ARRANGEMENT ON DOMESTIC METER.		CATCH BASIN						
24" M	C) SEE 108-9 FOR PIPING ARRANGEMENT ON DETECTOR CHECK VALVE ASSEMBLY. D) 24* MINIMUM CLEARANCE SHALL BE		CURB INLET						
24" MIN	MAINTAINED BETWEEN DOMESTIC METER AND DOUBLE DETECTOR CHECK VALVE ASSEMBLY AND A MINIMUM OF 24" FROM ANY WALL. DC METER SHALL BE INSTALLED ON THE SIDE	•100	YARD DRAIN						
	OPPOSITE OF THE DOMESTIC METER. E) DETECTOR CHECK METER TO BE PURCHASED FROM AND INSTALLED BY GCWW. F) ANY PUMPER CONNECTION MUST BE		HEADWALL						
	INSTALLED ON OPPOSITE SIDE OF DOUBLE DETECTOR CHECK METER ASSEMBLY AND DOWNSTREAM OF OUTLET VALVE.		MANHOLE						
ABLE TO METER	<ul> <li>G) A VALVE BOX COMPLETE MUST BE INSTALLED ON THE DOMESTIC BRANCH.</li> <li>H) BLOCKING MUST BE UNDER OS &amp; Y VALVES.</li> </ul>	o <sup>co</sup>	STORM SEWER CLEANOUT						
	All taps 4 <sup>a</sup> and larger will require a shutdown and cutting in a mechanically restrained tee of appropriate size on the main line.		DOWNSPOUT						
	Wet taps are not permitted. Property owner is responsible for all excavation, backfill, and restoration work per GCWW specifications.	SAN	SANITARY SEWER PIPE						
	All dead end pipe stubs must be mechanically restrained.		SANITARY SEWER MANHOLE						
	4" OR LARGER FIRE DUAL SERVICE INSIDE EMR SETTING FOR 4" OR LARGER FIRE AND	•	SANITARY SEWER CLEANOUT						
WATER	APPROVED DATE STANDARD DRAWING	WAT	WATERLINE PIPE						
		÷y ⊳	FIRE HYDRANT						
		<b>8</b> <sup>WV</sup>	WATER VALVE						
		<b>8</b> PIV	POST INDICATOR VALVE						
	<u>KEY NOTES</u> (1)	o <sup>FDC</sup>	FIRE DEPARTMENT CONNECTION						
	<ol> <li>PROPOSED 8" FIRE SUPPRES</li> <li>PROPOSED 6" FIRE SUPPRES</li> <li>PROPOSED 4" DOMESTIC WA</li> <li>PROPOSED 4" DOMESTIC WA</li> <li>PROPOSED 4" FIRE SUPPRES</li> <li>PROPOSED GAS SERVICE TO</li> <li>CONTRACTOR TO LOCATE AN ONCE LOCATED, CLEAN THE</li> <li>REFER TO MEP PLAN FOR CO</li> <li>PROPOSED GENERATOR. RE</li> <li>PROPOSED GENERATOR. RE</li> <li>PROPOSED B" DOWNSPOUT O DETENTION BASIN.</li> <li>STUB 12" STORM PIPE FOR FI</li> <li>PROPOSED (4) 2" CONDUITS</li> <li>RIM ELEVATION OF UPSTREA</li> <li>PROPOSED SANITARY CLEAN</li> <li>SMU DOUBLE GUTTER INLET</li> <li>SMU DOUBLE GUTTER INLET</li> <li>MSD NOTES</li> <li>IF LOWEST LEVEL ELEVATION OR BE</li> </ol>	ATER SERVICE TO METER STIC METER PIT PER GO SION WATER LINE TO F SION WATER LINE TO B ATER LINE TO BUILDING. SION WATER LINE TO R METER. REFER TO SITE ND VIDEO THE EXISTING LATERAL OF ALL DEBRI ONTINUATION. GROUND DETENTION SY FER TO ELECTRICAL PL COLLECTOR. MINIMUM 2 UTURE BUILDING. ADA COMPLIANT STAIN TO ATM. DETAILED BY O M SANITARY MANHOLE NOUT AT RIGHT OF WAY. LINE SEWER AT EXISTIN , STANDARD DRAWING 4 NOTES APPED/REMOVED AT EXIST ATION DRAIN LINE TO NE BELOW RIM ELEVATION PUMPED TO GRAVITY.	R PIT. WWW STANDARD DRAWING THIS SHEET. IRE HYDRANT. UILDING. EMOTE FDC. MEP PLANS FOR DETAILS. LATERAL TO VERIFY THE SIZE AND CONDITION. S DOWN TO THE MAIN FOR CONTINUED USE. STEM. ANS FOR DETAILS. L PLANS FOR DETAILS. 4" COVER & 1.00% SLOPE. TOE INTO UNDERGROUND LESS STEEL GRATE, OR APPROVED EQUAL. THERS. = 834.21. IG SANITARY LATERAL APPROXIMATELY 813.54. 19013. J STING STRUCTURES OR AT THE RIGHT OF WAY. GAREST STORM STRUCTURE. OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE						
	<ol> <li>A PERMIT IS REQUIRED BY MSD FOR THE STORMWATER TAP CONNECTION TO THE EXISTING COMBINED SEWER LINE. FOR QUESTIONS ABOUT MSD TAP PERMITS, CALL (513) 244-1330 OR EMAIL MSDTAPPERMITS@CINCINNATI-OH.GOV.</li> </ol>								
	SMU STANDARD PLAN	I NOTES							
	CITY'S MUNICIPAL CODE ALONG	WITH THE LATEST EDITI	NCINNATI SHALL COMPLY WITH CHAPTER 720 OF THE ONS OF SMU'S: A) DETENTION OPERATION AND D) PIPE MATERIALS POLICY, AND E) BUI ES &						

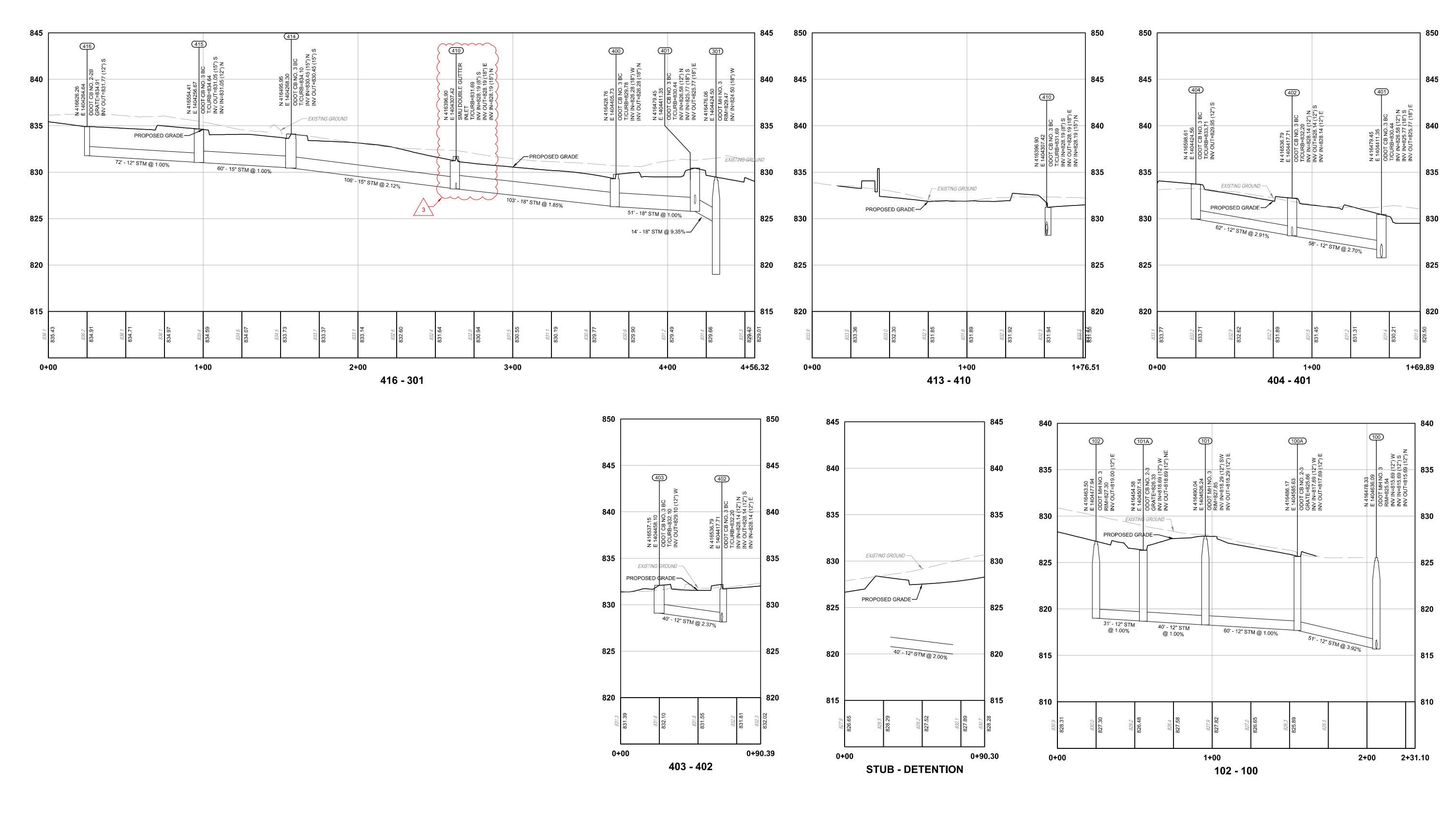
- MAINTENANCE PLAN, B) FEES, C) STANDARD DRAWINGS, D) PIPE MATERIALS POLICY, AND E) RULES & REGULATIONS. THESE DOCUMENTS CAN BE DOWNLOADED FROM SMU'S WEBSITE AT: HTTP://WWW.CINCINNATI-OH.GOV/STORMWATER/. IF THERE ARE CONFLICTS BETWEEN THESE DOCUMENTS SMU SHALL BE CONTACTED TO RESOLVE THE ISSUE PRIOR TO WORK COMMENCING. SMU CAN BE REACHED AT 513-591-7746 OR STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
  2. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE INSTALLED AS EARLY AS
- TEMPORART EROSION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE INSTALLED AS EARLY AS
  POSSIBLE AND BE MAINTAINED THROUGHOUT THE PROJECT.
   A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/MUNICIPAL SEPARATE STORM SEWER
- SYSTEM (MS4) PERMIT IS REQUIRED IF THE TOTAL LAND DISTURBANCE WILL BE EQUAL TO OR GREATER THAN ONE ACRE IN A STORM ONLY SEWER AND/OR IF DISCHARGING TO A CREEK. A COPY OF THE PERMIT MUST ACCOMPANY THE REQUEST FOR APPROVAL OF THE PLAN.
  SMU DOES NOT ALLOW TWO-PIECE CASTINGS OR SLAB TOP MANHOLES AND ONLY REINFORCED CONCRETE
- SMU DOES NOT ALLOW TWO-FIECE CASTINGS OR SEAB TOF MANIFOLES AND ONET REINFORCED CONCE PIPE (RCP) OR DUCTILE IRON PIPE (DIP) IS PERMITTED WITHIN AN EASEMENT OR RIGHT-OF-WAY.
   SMU DOES NOT ALLOW ANY DRAINAGE STRUCTURES WITHIN 5 FEET OF A DRIVEWAY.
- ALL PUBLIC STORM DRAINAGE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND WITH THE LATEST EDITION OF THE CITY OF CINCINNATI SUPPLEMENT TO THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. IF THERE IS A CONFLICT BETWEEN THE GOVERNING SPECIFICATIONS THE MOST STRINGENT SHALL BE USED. SMU SHALL BE CONTACTED TO RESOLVE ANY DISCREPANCIES PRIOR TO WORK COMMENCING. SMU CAN BE REACHED AT 513-591-7746 OR STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
- 7. THE OWNERS OF ALL PROPERTIES SHOWN ON THIS IMPROVEMENT PLAN SHALL BE SUBJECT TO ALL APPLICABLE SEWER MAINLINE INSPECTION FEES, SERVICE CHARGES, ASSESSMENTS, TAP-IN CHARGES OR OTHER FEES, WHICH HAVE BEEN ESTABLISHED BY CITY COUNCIL, CITY OF CINCINNATI.
- 8. ALL WORK DONE ON STORMWATER INFRASTRUCTURE WITHIN THE CITY OF CINCINNATI MUST BE DONE BY A CONTRACTOR WHO IS AN APPROVED SEWER TAPPER PROPERLY LICENSED AND BONDED THROUGH THE METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI.
- 9. A STORMWATER TAP PERMIT IS REQUIRED FOR EACH BUILDING. BOND OR FINAL ACCEPTANCE OF THE MAIN LINE IS REQUIRED PRIOR TO ISSUANCE OF A TAP PERMIT. A SKETCH SHALL BE SUBMITTED BY THE PLUMBER, WHICH SHALL SHOW THE ELEVATION AND LOCATION OF THE STORMWATER TAP WITH RESPECT TO THE NEAREST STORM MANHOLE. A REQUEST FOR APPLICATION CAN BE SENT TO STORMWATERMANAGEMENT@CINCINNATI-OH.GOV.
- 10. ALL PUBLIC STORMWATER INFRASTRUCTURE THAT IS BEING TAPPED INTO MUST BE CORED, AND INSPECTED AS PART OF THE TAP PERMIT PROCESS.
- 11. ALL STORMWATER INFRASTRUCTURE WITHIN THIS DEVELOPMENT IS TO BE PRIVATE AND MAINTAINED BY THE OWNER(S). [ONLY IF APPLICABLE.]
- 12. STORMWATER INFRASTRUCTURE CONSTRUCTION MUST COMMENCE WITHIN 12 MONTHS AND BE COMPLETED WITHIN 36 MONTHS OF THE DATE OF APPROVAL SHOWN HEREON OR THESE PLANS BECOME VOID.
- 13. NEAR THE COMPLETION OF WORK ON ALL STORMWATER INFRASTRUCTURE, THE [CONTRACTOR/OWNER/DEVELOPER/ETC.] SHALL REQUEST CAGIS IDS FROM SMU. UPON COMPLETION OF THE WORK USING SAID IDS THE [CONTRACTOR/OWNER/DEVELOPER/ETC.] SHALL CLOSE CIRCUIT TELEVISE (CCTV) THE PUBLIC STORMWATER MAINLINES AS WELL AS PROVIDE DIGITAL PHOTOGRAPHS OF THE LINES AND STRUCTURES. THE CCTV SHALL BE PIPELINE ASSESSMENT CERTIFICATION PROGRAM (PACP)-COMPLIANT AND SUBMITTED TO SMU FOR APPROVAL.
- 14. FINAL ACCEPTANCE: IN ORDER FOR SMU TO GRANT FINAL ACCEPTANCE THE FOLLOWING MUST BE SUPPLIED: A. AS-BUILT DRAWINGS WITH ACCURATE LOCATIONS, DESCRIPTIONS, AND QUANTITIES OF THE INSTALLED MATERIALS B. FINAL CLEANING AND INSPECTION BY THE OWNER OF THE INFRASTRUCTURE MUST BE COMPLETED AND WITHOUT CONFLICTS.
- 15. SMU RESERVES THE RIGHT TO REFUSE OWNERSHIP ON BEHALF OF THE CITY.



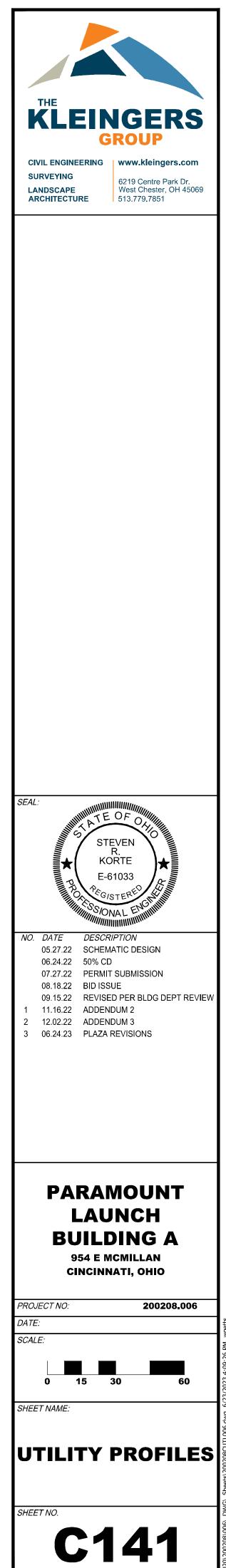


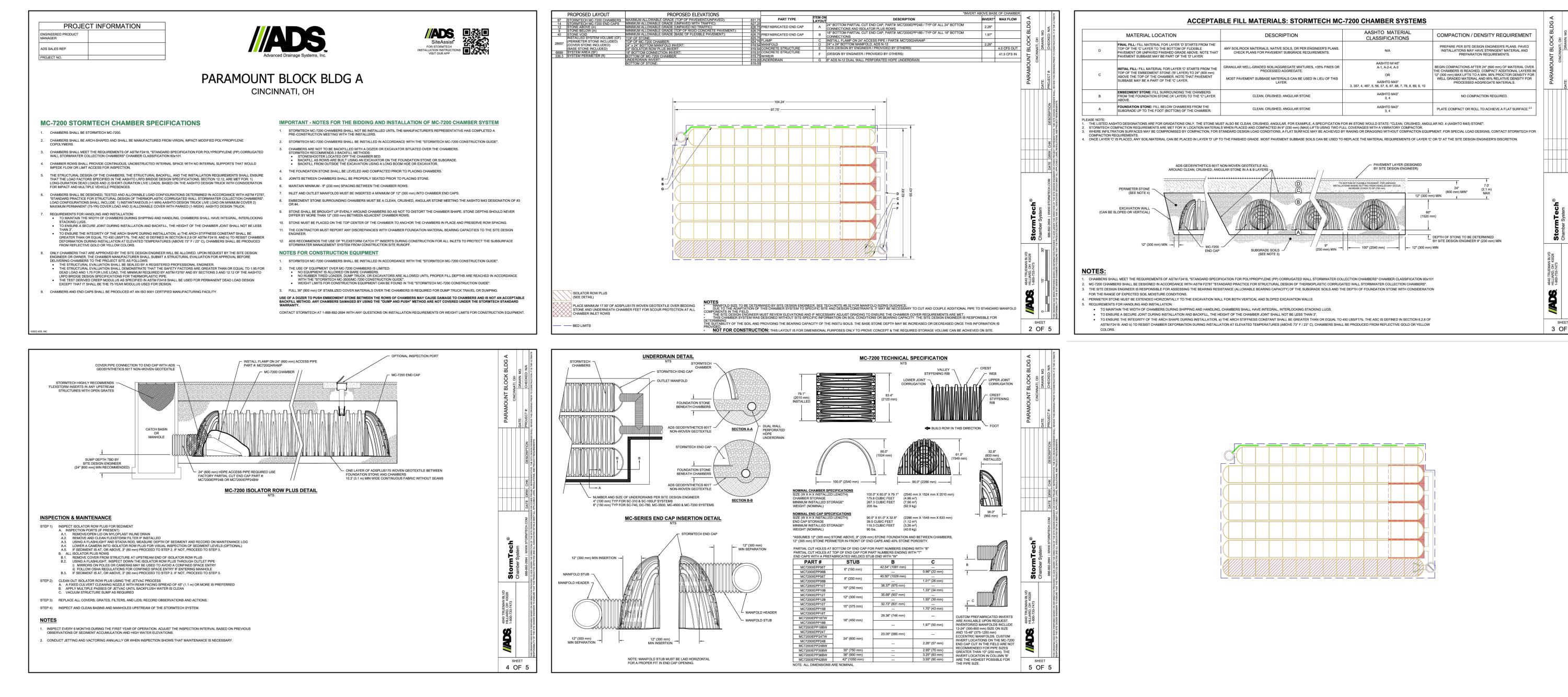


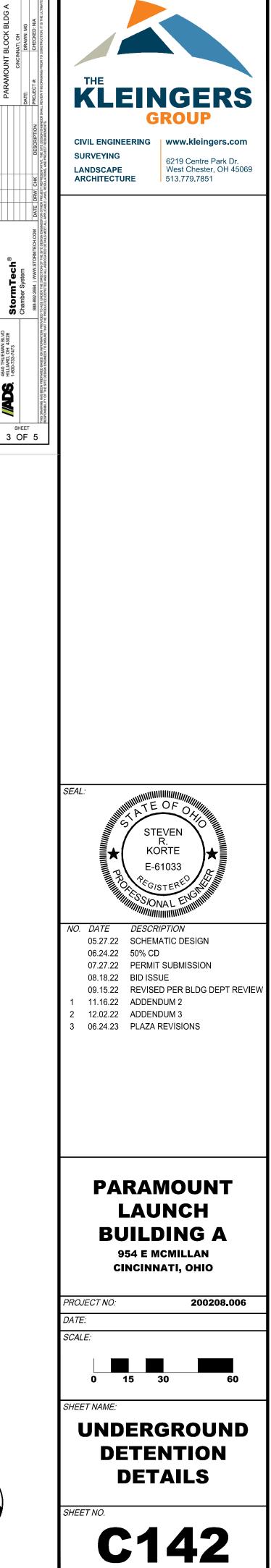
sheet NO.



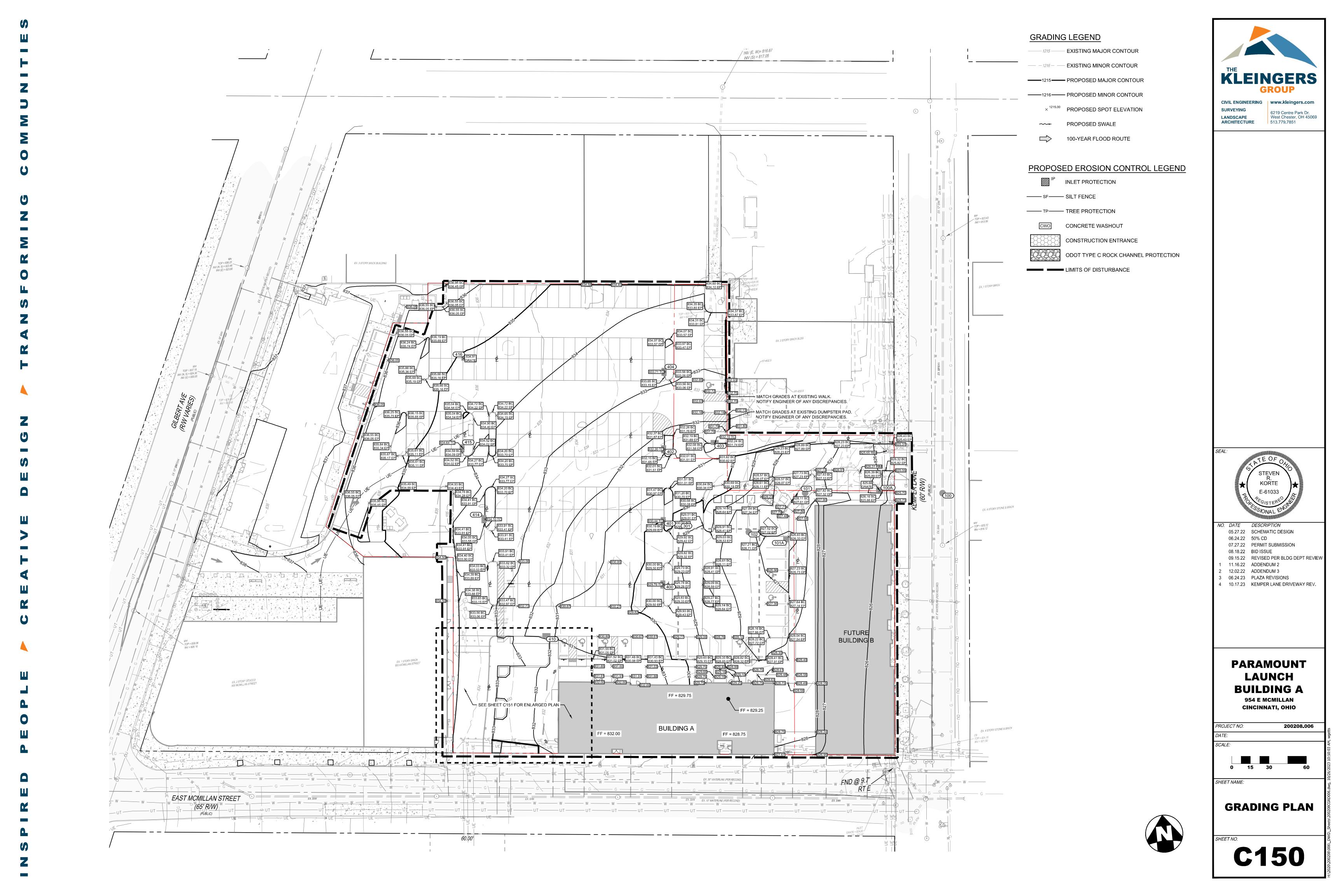


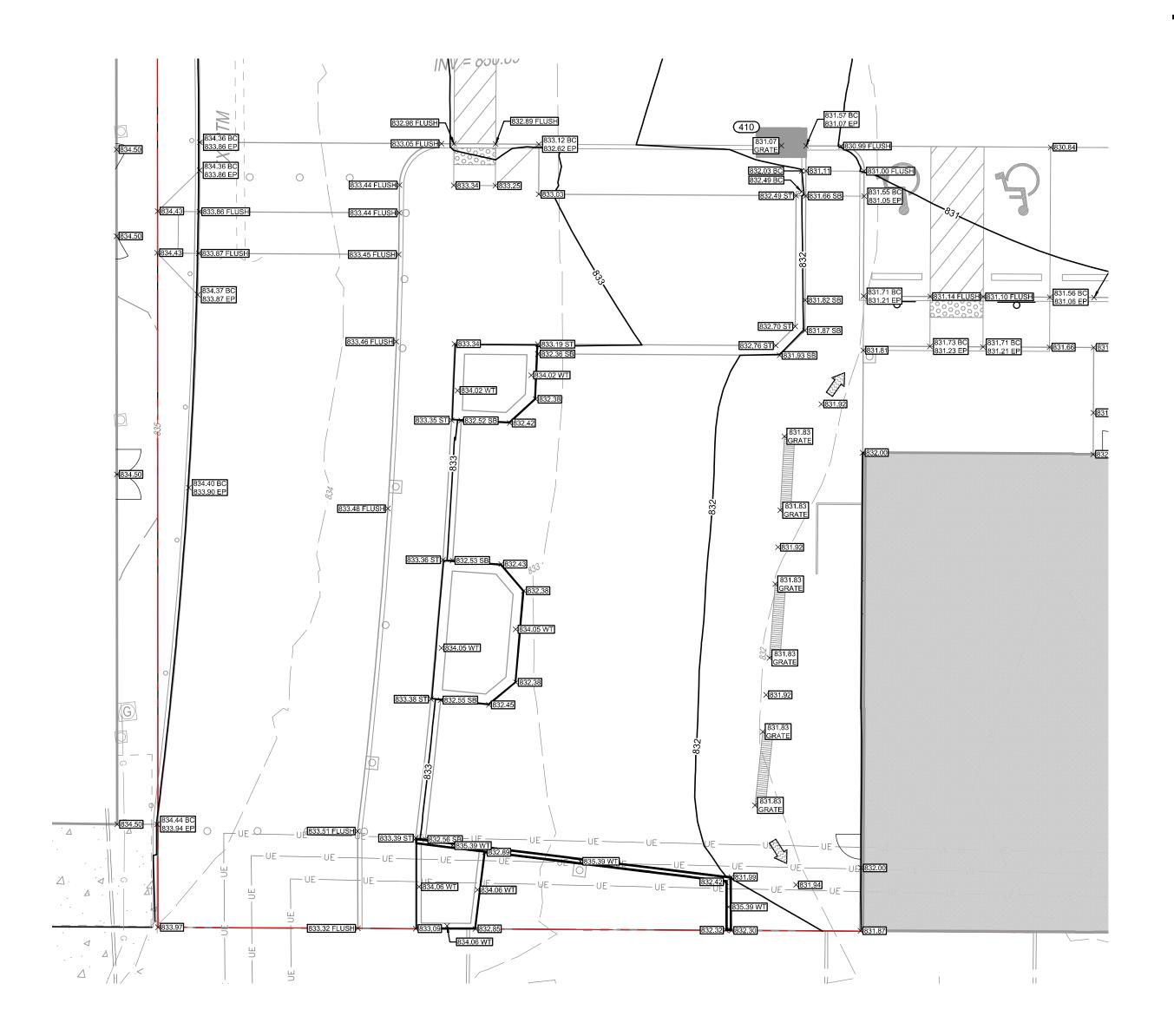






N





# GRADING LEGEND

× <sup>1215.00</sup>	PROPOSED SPOT ELEVATION
~~~	PROPOSED SWALE

100-YEAR FLOOD ROUTE

# PROPOSED EROSION CONTROL LEGEND

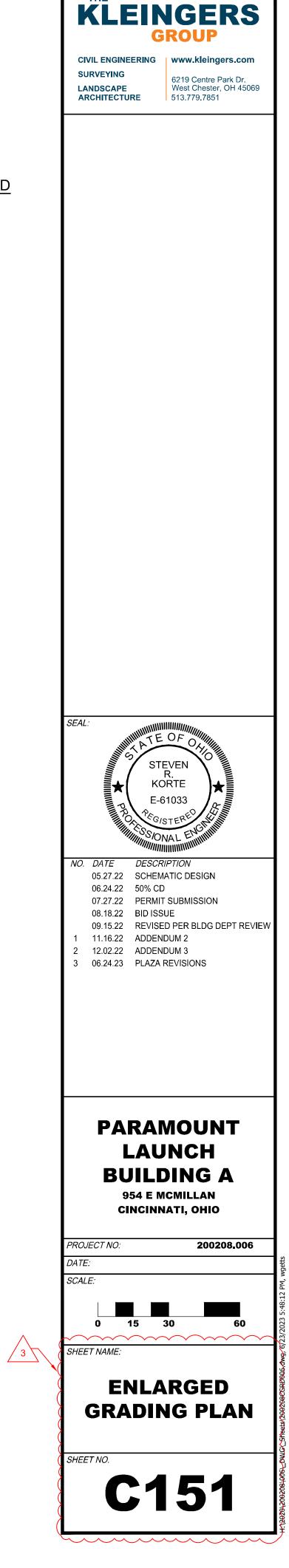
	ET PROTECTION
--	---------------

CWO CONCRETE WASHOUT

	CONSTRUCTION ENTRANCE
02020202	

ODOT TYPE C ROCK CHANNEL PROTECTION

LIMITS OF DISTURBANCE



DEMOLITION AND CLEARING OF THE EXISTING SITE FOR CONSTRUCTION OF A NEW MULTI-FAMILY RESIDENTIAL AND COMMERCIAL BUILDING.

LATITUDE: LONGITUDE: ESTIMATED CONSTRUCTIONS DATES:	N 39.126770° W 84.489602° XX/XX/XXXX - XX/XX/XXXX	CLEAN WA
TOTAL SITE AREA:	1.14 ACRES	THERE SH
TOTAL DISTURBED AREA:	1.14 ACRES	WATER ML
EXISTING IMPERVIOUS AREA: PROPOSED IMPERVIOUS AREA: TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION: INCREASE IN IMPERVIOUS AREA:	1.05 ACRES 0.98 ACRES 0.98 ACRES -7%	NO SOLID ALL PROC DISPOSED
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C=0.45	ALL CONS
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C=0.85	HEALTH RI
IMMEDIATE RECEIVING WATER/MS4:	MSD COMBINED SEWER	OTHER ER
ULTIMATE RECEIVING STREAM:	OHIO RIVER	RESPONSI
EXISTING LAND USE:	PARKING LOT	DISCRETIC

SOILS:

## CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

- A) INSTALL EROSION CONTROL ITEMS.
- B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
- C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE

URBAN LAND

- STRIPPING OPERATION. D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
- E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
- F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION **REGULATIONS INCLUDING:**
- 1. SEEDING
- 2. DITCH MATTING
- 3. INLET PROTECTION
- 4. MULCHING
- 5. WATERING

## EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER	
SITE SUPERINTENDE	ENT		
PROJECT ENGINEER			ANY A OR M
			ANY A
CONTAINMENT PRO	CEDURES TO PREVENT THE MATERIAI	BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START _ FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER R MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:	THE S
	SONNEL FROM THE SPILL AREA AND R		
2) STOP THE S		OFE OFF AREA.	
,		E PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.	TEMP
,		OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.	FORT
,			
SPILL KITS WILL BE I	LOCATED ON THE PROJECT AS DESIG	NATED ON THE SWPPP PLAN.	
			4
REGULATORY PROC		PER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH	ANY D
			WATE
ADDITIONAL EMERG	ENCY CONTACT NUMBERS:	24 HOUR PHONE NO .:	FOR
OHIO EPA		614-728-3898	AREA
			DAYS FEET
			DISTU
GENERAL NO	TES		ALL TEMPC
BY THE OHIO EPA SI	NCE MARCH 10, 2003 AND WITH A REV	POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED ISION IN APRIL 2018. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION	REACHED. SEEDIN
			MULCH ANI GRADING II
	SHALL INFORM ALL SUBCONTRACTOR ALL SUCH NOTIFICATIONS AND/OR DIS	S OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND CUSSIONS.	WHICH CAN

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND ATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

IALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN UST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

) OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND OF AT A PUBLICLY OWNED TREATMENT WORKS.

STRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND EGULATIONS.

ROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE IBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

# STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000005. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION								
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS							
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE							
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE							
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA							

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000005. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION								
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS							
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS							
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).							
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER							

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN

# SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN

2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE. 3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.

4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDIN
SEED TYPE
PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS
SMALL GRAIN STRAW
FERTILIZER

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

## STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

#### TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

		_									_		
STABILIZATION TYPE	J	F	М	А	Μ	J	J	А	S	0	Ν	D	
PERMANENT SEEDING			•	٠	٠	*	*	*	٠	٠			*
DORMANT SEEDING		•	•							•	•	•	*
TEMPORARY SEEDING			•	•	•	*	*	*	•	•			
SODDING			**	**	**	**	**	**	**				
MULCHING	•	•	•	•	•	•	•	•	٠	•	•	•	

#### **INSPECTIONS**

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- THE INSPECTION DATE;
- 2 DISCHARGES OCCURRED;
- 5.
- LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
- 9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

# MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.27.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

#### DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE: VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.

- MANUFACTURERS INSTRUCTIONS.
- 3. ADHESIVE

LATEX EMULSION RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC) ACRYLIC EMULSION (NO TRAFFIC) ACRYLIC EMULSION (TRAFFIC)

## PERMITTEE

<u>NAME</u> ADDRESS1 ADDRESS2 PHONE: <u>FAX:</u> CONTACT: EMAIL:

IG & MULCHING FOR EROSION CONTROL			
<u>PER 1,000 SQ FT</u>	PER ACRE		
1 POUND	40 POUNDS		
1 POUND 1 POUND	40 POUNDS 40 POUNDS		

12-12-12

90 POUNDS

6 POUNDS OF

10-10-10 OR

IRRIGATION NEEDED \* IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

2 TONS

250 POUNDS OF

10-10-10 OR

12-12-12

NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;

WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY

4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION; LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;

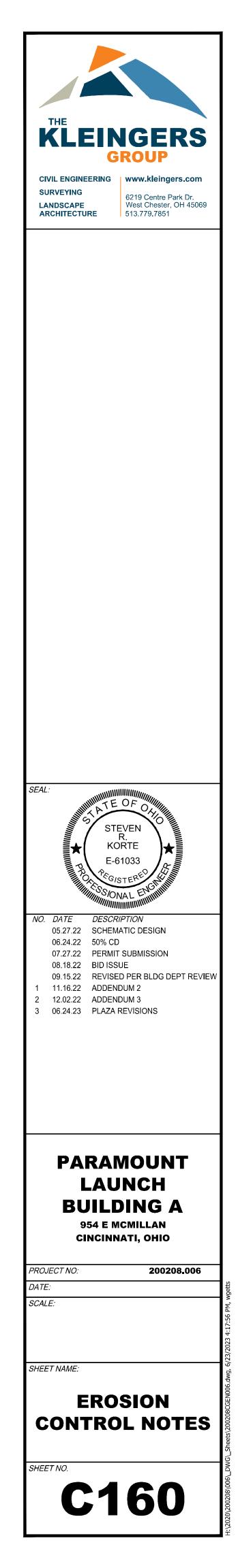
LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND

WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO

SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

WATER DILUTION (ADHESIVE: WATER)	<u>NOZZLE</u> <u>TYPE</u>	APPLICATION RATE (GAL/AC)
12.5:1	FINE	235
4:1	FINE	300
7:1	COARSE	450
3.5:1	COARSE	350

GENERAL PERMIT:	OHC000005	
NPDES PERMIT:	xxxxxxx	
DATE OF ISSUE:	XX/XX/XXXX	



# SPILL PREVENTION

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

## GOOD HOUSEKEEPING

- 1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- 2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- 4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- 5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. 6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- 7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

#### HAZARDOUS PRODUCTS:

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- 2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- 3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

# SPILL CONTROL PRACTICES

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

- 1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- 2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE
- 3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
- 5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
- 6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- 7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

# PRODUCT SPECIFIC PRACTICES

#### PETROLEUM PRODUCTS

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

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

#### **FERTILIZERS**

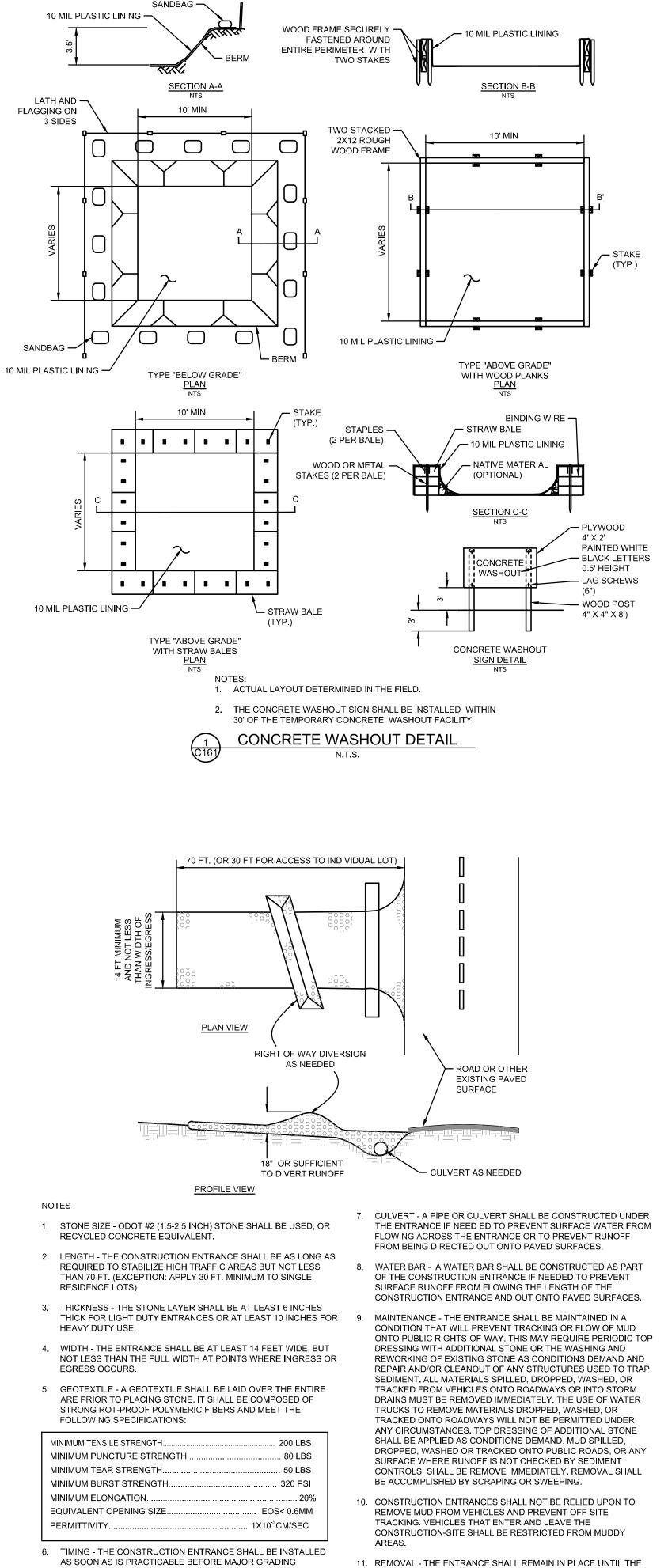
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

#### PAINTS

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

#### CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.



ACTIVITIES.

CONSTRUCTION ENTRANCE DETAIL N.T.S.

DISTURBED AREA IS STABILIZED OR REPLACED WITH A

PERMANENT ROADWAY OR ENTRANCE.

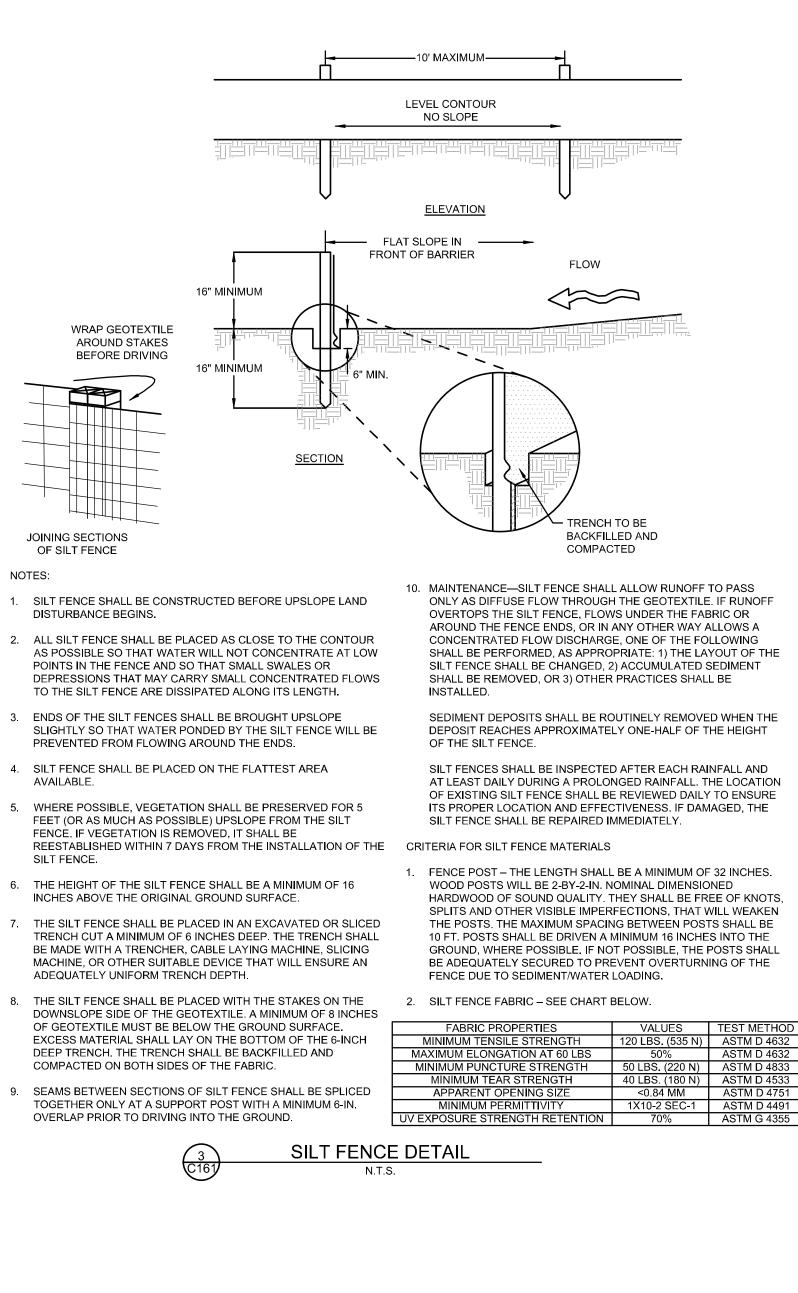
GRAB GRAB T PUN MULLE

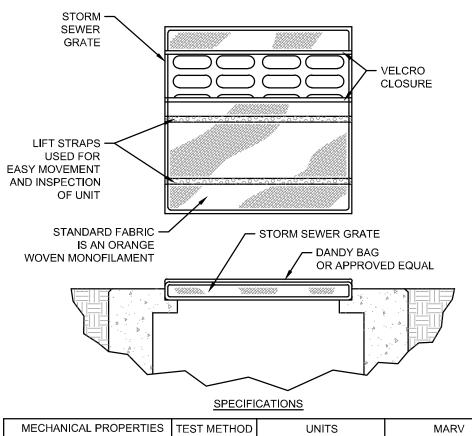
TRAPEZ

#### WRAP GEOTEXTILE AROUND STAKES **BEFORE DRIVING**

JOINING SECTIONS OF SILT FENCE

- NOTES 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- POINTS IN THE FENCE AND SO THAT SMALL SWALES OR
- 3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE
- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- FENCE. IF VEGETATION IS REMOVED, IT SHALL BE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- ADEQUATELY UNIFORM TRENCH DEPTH.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC
- OVERLAP PRIOR TO DRIVING INTO THE GROUND





	TEOTIMETHOD	onno	
TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
TENSILE ELONGATION	ASTM D 4632	%	24 X 10
ICTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
EN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
ZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
JV RESISTENCE	ASTM D 4355	%	90
RENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M <sup>2</sup> (GAL/MIN/FT <sup>2</sup> )	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC <sup>-1</sup>	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH. ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG DETAIL

