FINAL ENGINEERING PLANS FOR

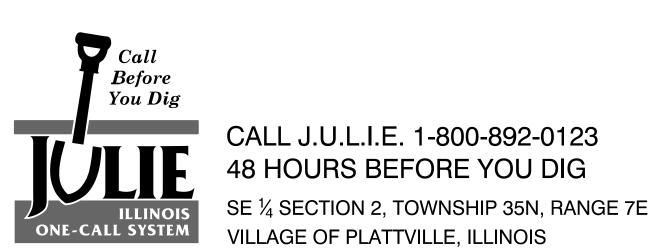
PLETCHER DRIVE DRAINAGE IMPROVEMENTS

PLAN LEGEND

EXISTING	LINETYPES	PROPOSED
	- — — PROPERTY LINE - — - — — — SETBACK LINE — — - — — — CENTERLINE — — - — — — CONTOUR — — -	
© 0 1 2 3	- — — GUARDRAIL — — — — SANITARY MANHOLE — — — STORM MANHOLE — — — — — — — — — — — — — — — — — — —	

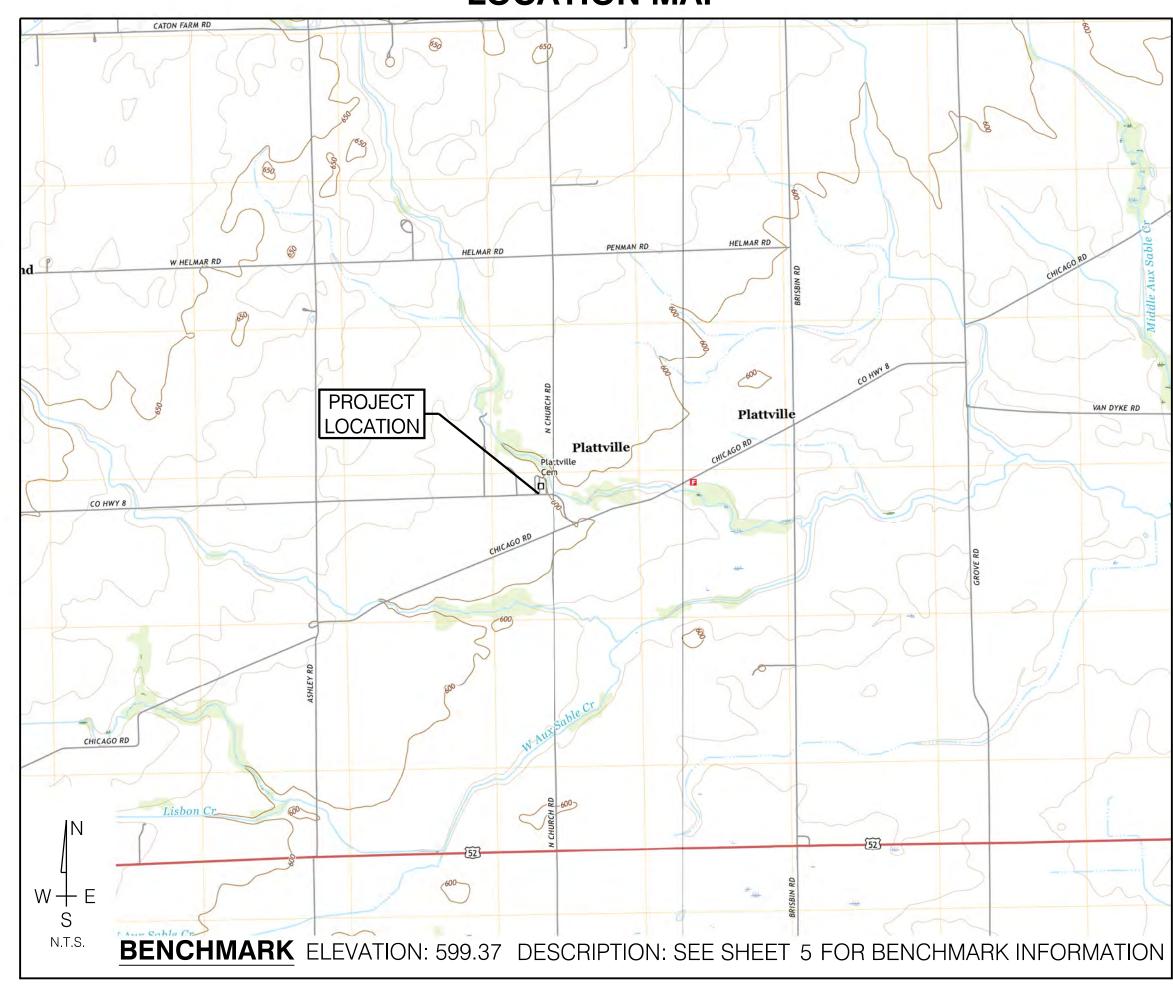
PERMITS

	1	
AGENCY	DATE	PERMIT #
IEPA (NPDES ILR10 - NOI)		



PLATTVILLE, ILLINOIS

WBK PROJECT NO. 20-0205 **SECTION NO. 20-00160-00-DR LOCATION MAP**



WBK engineering

WBK ENGINEERING, LLC

116 WEST MAIN STREET, SUITE 201, ST. CHARLES, ILLINOIS 60174 P: 630.443.7755 F: 630.443.0533 WWW.WBKENGINEERING.COM

> PROFESSIONAL DESIGN FIRM NO. 184.007317 **EXPIRATION DATE: 04/30/2021**

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REVISIONS

ORIGIN	IAL PLAN [DATE: 11/02/20	
#	SHT NO.	DESCRIPTION	DATE
1	ALL	ISSUED FOR UTILITY REVIEW	11/20/20
2	ALL	95% PRE-FINAL SUBMITTAL	01/22/21
3	ALL	100% ISSUED FOR BID	02/12/21

CLIENT

KENDALL COUNTY HIGHWAY DEPARTMENT 6780 ROUTE 47 YORKVILLE, IL 60560 630-553-7616

COUNTY ENGINEER

09-23-21

DATE

FRANCIS C. KLAAS, P.E.

ENGINEER

ILLINOIS REGISTRATION NO.: 062-044539 EXPIRATION DATE: 11/30/2021 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL AND EXPIRATION DATE OF SEAL OF THE ENGINEER

CIVIL ENGINEER

Just Buhe

2/12/2021 DATE

JUSTIN L. BENHAM, P.E.

ILLINOIS REGISTRATION NO.: 062-068300 EXPIRATION DATE: 11/30/2021 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL AND EXPIRATION DATE OF SEAL OF THE ENGINEER



SEAL

REFERENCED SPECIFICATIONS AND CODES

THE FOLLOWING DOCUMENTS SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, ALWAYS UTILIZING THE LATEST EDITION. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL APPLY. THE CITED DOCUMENTS, COMBINED WITH THESE CONSTRUCTION PLANS AND ASSOCIATED PROJECT SPECIFICATIONS, ARE ALL TO BE CONSIDERED PART OF THE WORK. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED PART OF THESE IMPROVEMENTS.

- 1) THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (SSRBC) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "CULVERT MANUAL".
- 3) THE ILLINOIS DEPARTMENT OF TRANSPORTATION "BUREAU OF LOCAL ROADS AND STREETS MANUAL", AS WELL AS ALL OTHER APPLICABLE CODES, DETAILS, SPECIFICATIONS, AND STANDARD PRACTICES OF ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 4) THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- 5) THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY "ILLINOIS URBAN MANUAL" (IUM).
- 6) THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD).
- 7) SECTION 404 OF THE CLEAN WATER ACT, SECTION 10 OF THE RIVERS AND HARBORS ACT OF 1899, AND THE RULES AND REGULATIONS ENFORCED BY THE US ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT.
- 8) THE ILLINOIS ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT.
- 9) THE KENDALL COUNTY STORMWATER MANAGEMENT ORDINANCE AND ASSOCIATED TECHNICAL REFERENCE MANUAL, AS WELL AS ALL OTHER APPLICABLE CODES, ORDINANCES, DETAILS, SPECIFICATIONS, AND STANDARD PRACTICES OF KENDALL COUNTY.

GENERAL PROJECT NOTES

- 1) ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE PRIOR TO SUBMITTING
- 2) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 3) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THEY MUST BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY WORK BEGINS. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED AT THEIR OWN RISK AND EXPENSE.
- 4) IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR PROJECT DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED AT THEIR OWN RISK AND EXPENSE.
- 5) IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR PROJECT DETAILS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- 6) THE CONTRACTOR SHALL DESIGNATE A JOB SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR COMPLLIES WITH THE PROJECT PLANS AND SPECIFICATIONS.
- 7) AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL NOTIFY ALL TESTING AGENCIES AS CONTRACTED BY THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE TO NOTIFY SUCH AGENCIES RESULTING IN THE TESTING AGENCIES BEING UNABLE TO VISIT THE SITE WILL RESULT IN THE CONTRACTOR SUSPENDING OPERATIONS THAT PERTAIN TO TESTING UNTIL THE TESTING AGENCIES ARE PRESENT ON-SITE. ANY COSTS ASSOCIATED WITH THIS SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.
- 8) AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY RESPONSE AGENCIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES. AT NO TIME SHALL ACCESS TO BUILDINGS AND ROADWAYS WITHIN THE PROJECT LIMITS BE DENIED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
- 9) THE CONTRACTOR'S SUPERINTENDENT SHALL BE REQUIRED TO MAINTAIN IN THEIR POSSESSION AT ALL TIMES A COPY OF THE APPROVED ENGINEERING PLANS, SPECIFICATIONS AND ALL PROJECT PERMITS

GENERAL PROJECT NOTES (CONTINUED)

- 10) ANY EXISTING SIGNS, LIGHT STANDARDS OR UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED FOR REMOVAL SHALL BE KEPT OPERATIONAL AND MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE. THIS SHALL INCLUDE THE TEMPORARY REMOVAL, RELOCATION AND/OR RESETTING OF SUCH ITEMS AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND/OR OWNER. ANY ITEMS THAT ARE NOT TO BE RESET SHALL BE DELIVERED TO THEIR RESPECTIVE OWNER.
- 11) THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND ANY OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. FAILURE TO PROVIDE PROTECTION RESULTING IN DAMAGES TO EXISTING ROADWAYS, SIDEWALKS, CURBS, UTILITY STRUCTURES AND OTHER PUBLIC INFRASTRUCTURE WILL REQUIRE THE CONTRACTOR TO MAKE REPAIRS AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- 12) THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL BENCHMARKS, SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER OR THE OWNER'S REPRESENTATIVE HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 13) THE CONTRACTOR SHALL NOT DELIVER AND STORE ANY MATERIALS ON THE PROJECT SITE MORE THAN SEVEN (7) DAYS IN ADVANCE OF COMMENCING WORK. ALL STORAGE LOCATIONS MUST BE APPROVED IN ADVANCE BY THE ENGINEER. STORAGE LOCATIONS THAT FALL OUTSIDE THE PROJECT LIMITS WILL NOT BE ALLOWED. NO PORTION OF THE ROADWAY MAY BE USED FOR MATERIAL STORAGE AT ANY POINT DURING CONSTRUCTION.
- 14) ALL REPAIRS AND/OR REPLACEMENTS TO THE PARKWAY, PAVEMENT, CURBS, SIDEWALKS ETC. AS A RESULT OF DAMAGE DUE TO MATERIAL STORAGE ACTIVITIES SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.
- 15) THE ENGINEER WILL INSPECT ALL WORK PRIOR TO FINAL APPROVAL. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE MADE UNTIL ALL WORK HAS BEEN APPROVED AND CERTIFIED COMPLETE BY THE ENGINEER.

EXISTING UTILITIES

- 1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL EXISTING UTILITY FACILITIES AND THEIR EXACT LOCATIONS. PRIOR TO COMMENCEMENT OF SITE DITURBING ACTIVITIES, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1-800-892-0123 FOR FIELD LOCATION OF BURIED UTILITIES. A MINIMUM 48-HOUR NOTIFICATION PERIOD IS REQUIRED.
- 2) IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE PROPOSED IMPROVEMENTS, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER
- 3) TO THE BEST OF OUR KNOWLEDGE, EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTLITIES LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY ARE SHOWN ON THE PLANS IN ACCORDANCE WITH AVAILABLE RECORDS.
- 4) THE CONTRACTOR SHALL NOTIFY EXISTING UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- 6) THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
- 7) THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES INVOLVED WITH THE REMOVAL. TEMPORARY RELOCATION. SUPPORT. PROTECTION, RECONSTRUCTION OR ABANDONMENT BY THESE COMPANIES OF ANY AND ALL SERVICES OR FACILITIES OWNED OR OPERATED BY THEM WITHIN THE PROJECT LIMITS.

EXCAVATION, PROPOSED UTILITIES AND SITE GRADING

- 1) THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND SHALL PROVIDE FIELD ENGINEERING SERVICES TO PERFORM SUCH WORK.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEY AND SHALL PROVIDE FIELD ENGINEERING SERVICES TO PERFORM SUCH WORK.
- 3) THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION LAYOUT STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SHORING AND BRACING, SHEET PILINING, UPRIGHTS, STRINGERS, CROSS BRACES, TRENCH BOXES, ETC. AS REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS. THIS WORK SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.
- 5) THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER.
- 6) IN THE EVENT THAT UNSTABLE/SOFT MATERIALS ARE ENCOUNTERED. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE DECISION TO REMOVE SAID MATERIALS, AND TO WHAT EXTENT, SHALL BE MADE BY THE
- 7) PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATIONS OF ALL UTILITY CONNECTIONS SO AS TO AVOID CONFLICTS DURING CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THEY MUST BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY WORK BEGINS. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED AT THEIR OWN RISK AND EXPENSE.
- 8) NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE ENGINEER. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT OF ANY ASPHALT OR CONCRETE AFTER FORMS HAVE BEEN SET.
- 9) THE CONTRACTOR SHALL WORK BASED ON THEIR OWN EXPLORATIONS AND OBSERVATIONS TO DETERMINE CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.
- 10) THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.
- 11) STATIONS AND OFFSETS SHOWN ON THE CONSTRUCTION PLANS FOR UTILITY STRUCTURES ARE TO THE CENTER OF THE STRUCTURE. RIM ELEVATIONS SHOWN FOR UTILITY STRUCTURES ARE TO PAVEMENT/FINISHED GRADE ELEVATION. STATIONS AND OFFSETS SHOWN FOR FLARED END SECTIONS ARE TO THE TOP MID-POINT OF THE TOE OF THE FLARED END SECTION.
- 12) DUE TO SPACE CONSTRAINTS, IT IS REQUIRED THAT TOPSOIL WILL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN OFF-SITE LOCATION THE CONTRACTOR SHALL NOT BE ALLOWED TO STRIP, STOCKPILE AND RESPREAD EXISTING TOPSOIL ON THE SITE. THE REMOVAL OF EXISTING TOPSOIL SHALL BE PAID FOR AS "EARTH EXCAVATION".
- 13) THE CONTRACTOR SHALL ONLY BE PAID FOR EARTHWORK ONCE. REGARDLESS OF STAGING AND HOW MANY TIMES THE EXCAVATED MATERIALS ARE HANDLED. HANDLING OF EXCAVATED MATERIALS MORE THAN ONCE TO BETTER FACILITATE CONSTRUCTION ACTIVITIES SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- 14) ALL EXCAVATION AND EMBANKMENT LOCATIONS SHALL BE CONSTRUCTED TO FOUR (4) INCHES BELOW FINISHED GRADE TO ALLOW FOR PLACEMENT OF TOPSOIL MATERIALS.
- 15) THE SUB-GRADE SHALL BE GRADED TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS.
- 16) EMBANKMENT MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION. FILL MATERIALS SHALL NOT BE PLACED OVER EXISTING TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
- 17) THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. IF ADDITIONAL WORK IS REQUIRED DUE TO THE CONTRACTOR'S FAILURE TO FACILITATE POSITIVE DRAINAGE DURING CONSTRUCTION, SUCH WORK SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.
- 18) IN THE EVENT THAT WATER ENTERS AN EXCAVATION, THE CONTRACTOR SHALL REMOVE SUCH WATER IN A TIMELY MANNER TO PREVENT SOFTENING AND OTHER SOIL CHANGES DETRIMENTAL TO SUBGRADE STABILITY. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PUMPS, SUMPS, DISCHARGE LINES AND OTHER NECESSARY COMPONENTS TO MAINTAIN A DEWATERING SYSTEM TO CONVEY WATER AWAY FROM EXCAVATIONS AS DIRECTED BY THE ENGINEER.

TOPOGRAPHIC SURVEY

- 1) THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 88.
- 2) THE TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS COMPLETED ON FEBRUARY 3, 2020 BY WBK ENGINEERING, LLC. SUPPLEMENTAL PROJECT SURVEYS WERE COMPLETED ON SEPTEMBER 4, 2020 AND NOVEMBER 23, 2020 BY WBK ENGINEERING, LLC.

SOIL EROSION AND SEDIMENT CONTROL

- 1) ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SHALL BE IN ACCORDANCE WITH THE PROJECT SWPPP AND ALL PROJECT PERMITTING REQUIREMENTS. ALL PRE-CONSTRUCTION DEVICES AND MEASURES MUST BE IN PLACE PRIOR TO THE START OF SOIL-DISTURBING CONSTRUCTION ACTIVITIES.
- 2) THE CONTRACTOR SHALL MAINTAIN ALL STREETS, DRIVEWAYS, PARKING AREAS AND RIGHTS-OF-WAY FREE OF MUD, SOIL AND CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL CLEAN STREETS OF THESE ITEMS AS DIRECTED BY THE ENGINEER OR AT THE END OF EACH WORKING DAY AT A MINIMUM.
- 3) NO CONSTRUCTION EQUIPMENT OR VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE WASTE MATERIALS, CLEANERS OR WASHWATERS WILL BE INTRODUCED INTO OR FLOW DIRECTLY INTO STORM SEWER SYSTEMS OR WATERCOURSES.
- 4) THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND IMMEDIATELY REMOVE ALL EQUIPMENT (INCLUDING ANY FUEL, EXPLOSIVES OR OTHER HAZARDOUS MATERIAL) FROM FLOOD PRONE AREAS IN THE EVENT OF ISSUANCE OF ANY FLOOD WATCHES OR WARNINGS.
- 5) AT THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL REMOVE ANY LOOSE MATERIAL THAT HAS BEEN DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES OR GUTTERS SUCH THAT THE FLOW OF WATER IS NOT IMPEDED. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ALL DIRT AND DEBRIS PRIOR TO FINAL PROJECT INSPECTION.
- 6) ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE DURATION OF CONSTRUCTION. DAMAGED OR INEFFECTIVE DEVICES AND MEASURES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER WITHIN A PERIOD OF 24 HOURS.
- 7) THE CONTRACTOR SHALL NOT REMOVE ANY SOIL EROSION AND SEDIMENT CONTROL DEVICES OR MEASURES FROM OPERATION UNTIL DIRECTED TO DO SO BY THE ENGINEER.

PERMITS

THE FOLLOWING PERMITS ARE REQUIRED FOR THIS PROJECT. ALL PERMITS MUST BE ISSUED AND IN HAND PRIOR TO COMMENCEMENT OF CONSTRUCTION.

1) ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NPDES ILR10 PERMIT - NOTICE OF INTENT (NOI)

REMOVALS

- 1) ITEMS SPECIFIED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL IDENTIFY AND COMMUNICATE TO THE ENGINEER ALL LOCATIONS THAT ARE TO BE UTILIZED FOR SUCH DISPOSAL.
- 2) THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL OF DELETERIOUS MATERIALS AS REQUIRED BY THE ENGINEER.
- 3) ITEMS SPECIFIED FOR REMOVAL SUCH AS PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBS, ETC. SHALL BE CUT WITH A PAVEMENT SAW PRIOR TO REMOVAL. SAW CUTS SHALL BE MADE AT THE REMOVAL LIMITS OF THE ITEM BEING REMOVED AS MARKED BY THE ENGINEER.
- 4) THE CONTRACTOR SHALL NOT DAMAGE, REMOVE OR OTHERWISE IMPACT ITEMS NOT SPECIFIED FOR REMOVAL ON THE PROJECT PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. IN THE EVENT THAT AN ITEM IS DAMAGED OR REMOVED, THE CONTRACTOR SHALL RESTORE THE ITEM TO IT'S ORIGINAL CONDITION AT THEIR OWN EXPENSE.

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PROJECT NO. 20-0205 DATE: 02/12/21

DRAWING NO. GN1 SHEET

SUMMARY OF QUANTITIES

ITEM NO.	IDOT CODE	ITEM	QUANT I TY	UNIT
1	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36.0
2	20101000	TEMPORARY FENCE	FOOT	320.0
3	20200100	EARTH EXCAVATION	CU YD	1,974.0
4	20201200	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10.0
5	20800150	TRENCH BACKFILL	CU YD	146.0
6	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	121.0
7	21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	4,801.0
8	21400100	GRADING AND SHAPING DITCHES	FOOT	1,182.0
9	25000210	SEEDING CLASS 2A	ACRE	1.0
10	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90.0
11	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90.0
12	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90.0
13	25100630	EROSION CONTROL BLANKET	SQ YD	4,801.0
14	28000305	TEMPORARY DITCH CHECKS	FOOT	105.0
15	28000315	AGGREGATE DITCH CHECKS	TON	20.0
16	28100105	STONE RIPRAP, CLASS A3 15"	SQ YD	82.0
17	28200200	FILTER FABRIC	SQ YD	96.0
18	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	10.0
19	35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	121.0
20	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	42.0
21	40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	TON	14.0
22	44000100	PAVEMENT REMOVAL	SQ YD	121.0
23	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	152.0
24	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	44.0
25	44201747	CLASS D PATCHES, TYPE IV 8"	SQ YD	109.0
26	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	32.0
27	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1.0
28	54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" EQRS	EACH	2.0
29	54214527	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42" EQRS	EACH	2.0
30	54262736	METAL FLARED END SECTIONS, 36"	EACH	4.0
31	550A0340	STORM SEWERS, CLASS A, TYPE 2 12" (RCP)	FOOT	5.0
32	550A0420	STORM SEWERS, CLASS A, TYPE 2 27" (RCP)	FOOT	5.0
33	550A0430	STORM SEWERS, CLASS A, TYPE 2 30" (RCP)	FOOT	18.0
34	550A0450	STORM SEWERS, CLASS A, TYPE 2 36" (CMP)	FOOT	82.0
35	550A5100	STORM SEWERS, CLASS A, TYPE 2 30" EQRS (RCP)	FOOT	114.0
36	550A5500	STORM SEWERS, CLASS A, TYPE 2 42" EQRS (RCP)	FOOT	36.0
37	60223700	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1.0
38	60224020	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2.0
39	60500040	REMOVING MANHOLES	EACH	3.0
40	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	44.0
41	67100100	MOBILIZATION	L SUM	1.0
42	X5510100	STORM SEWER REMOVAL (SPECIAL)	FOOT	272.0
43	X7010218	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0
44	Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	136.0
45	-	CONSTRUCTION LAYOUT AND AS-BUILT SURVEY	L SUM	1.0
46	-	PVC TILE DRAIN, 6"	FOOT	1,130.0
47	-	PVC TILE DRAIN CLEANOUT, 6"	EACH	4.0
48	-	PVC TILE DRAIN CONNECTION	EACH	6.0

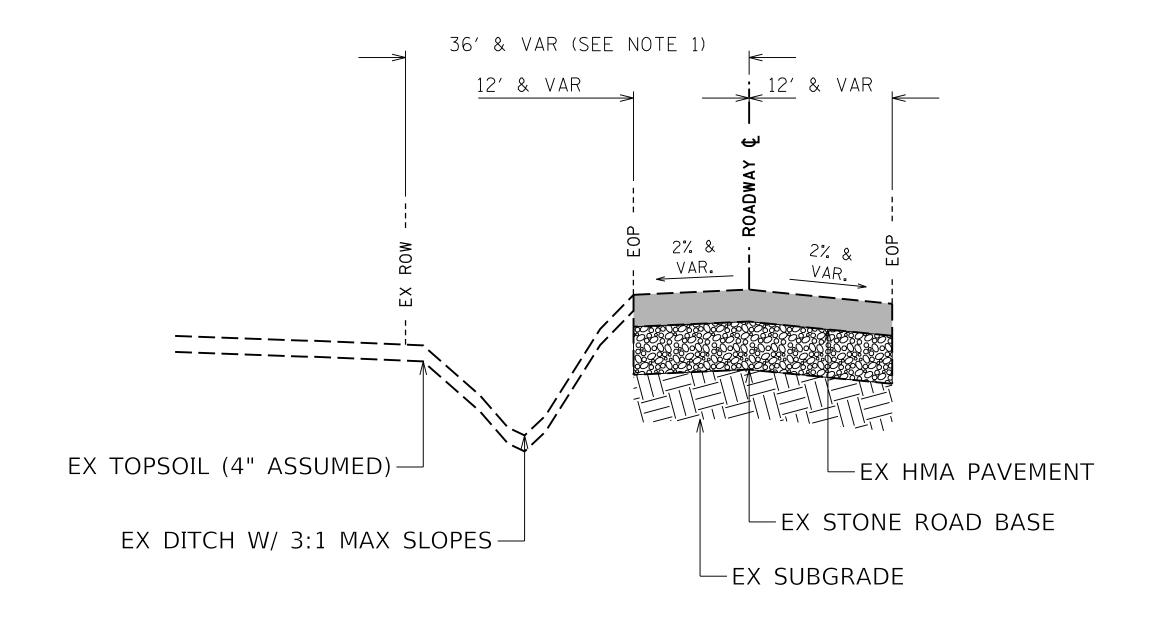
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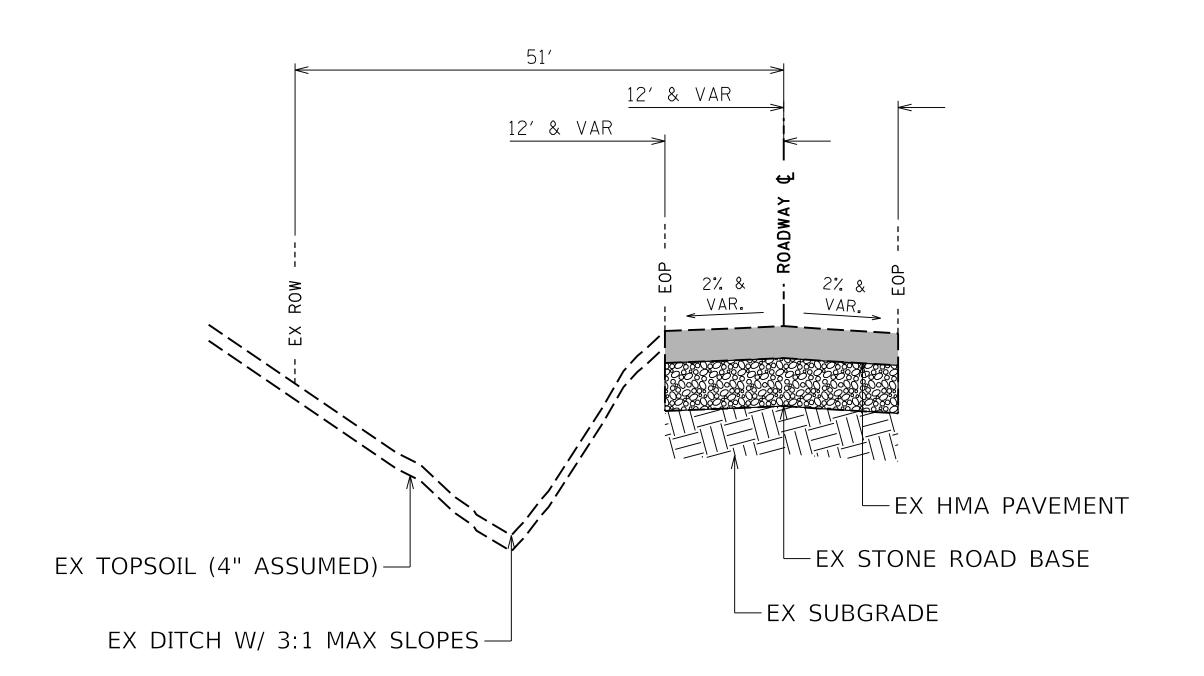
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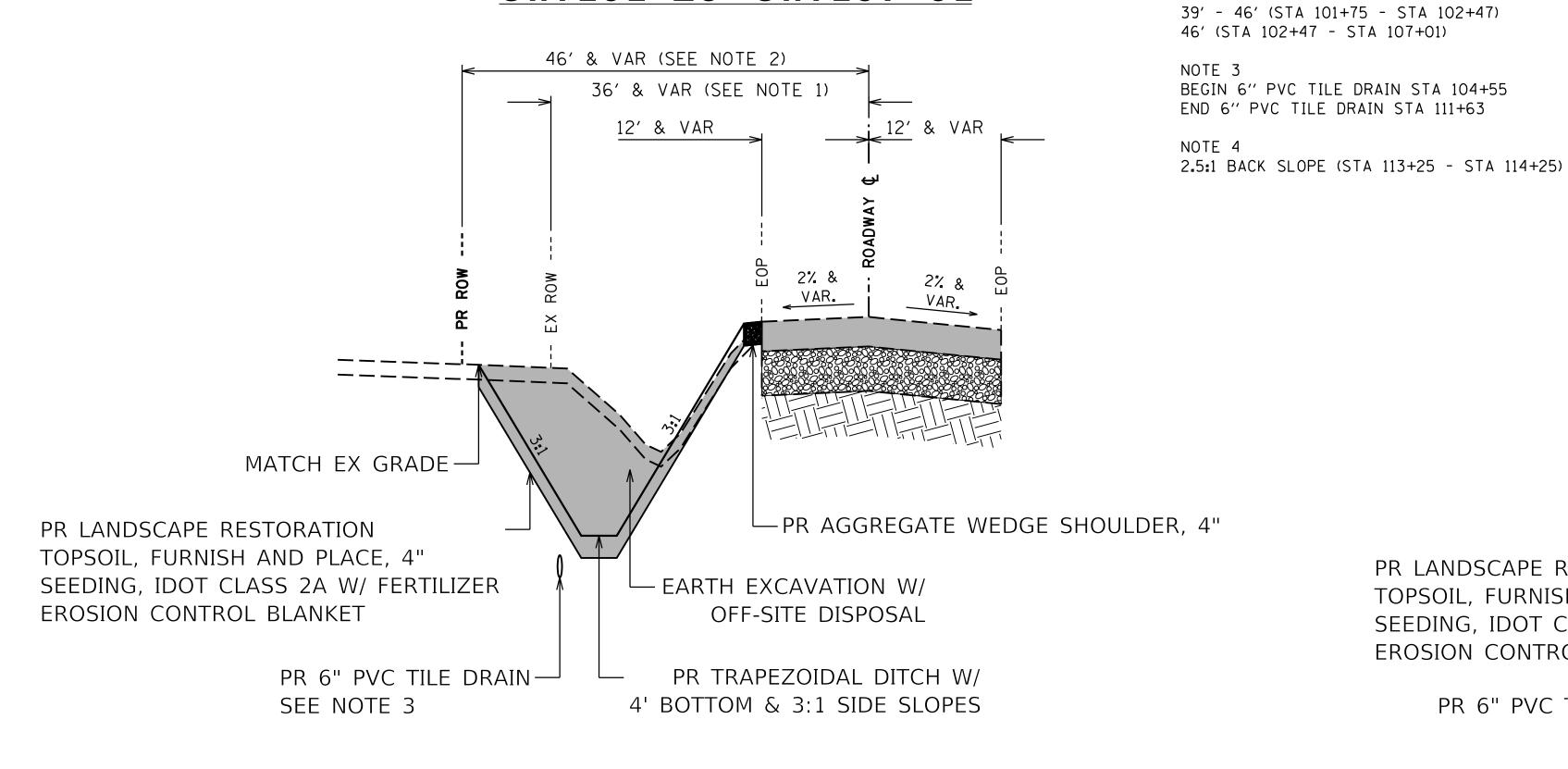
EX TYPICAL SECTION STA 101+25 - STA 107+01



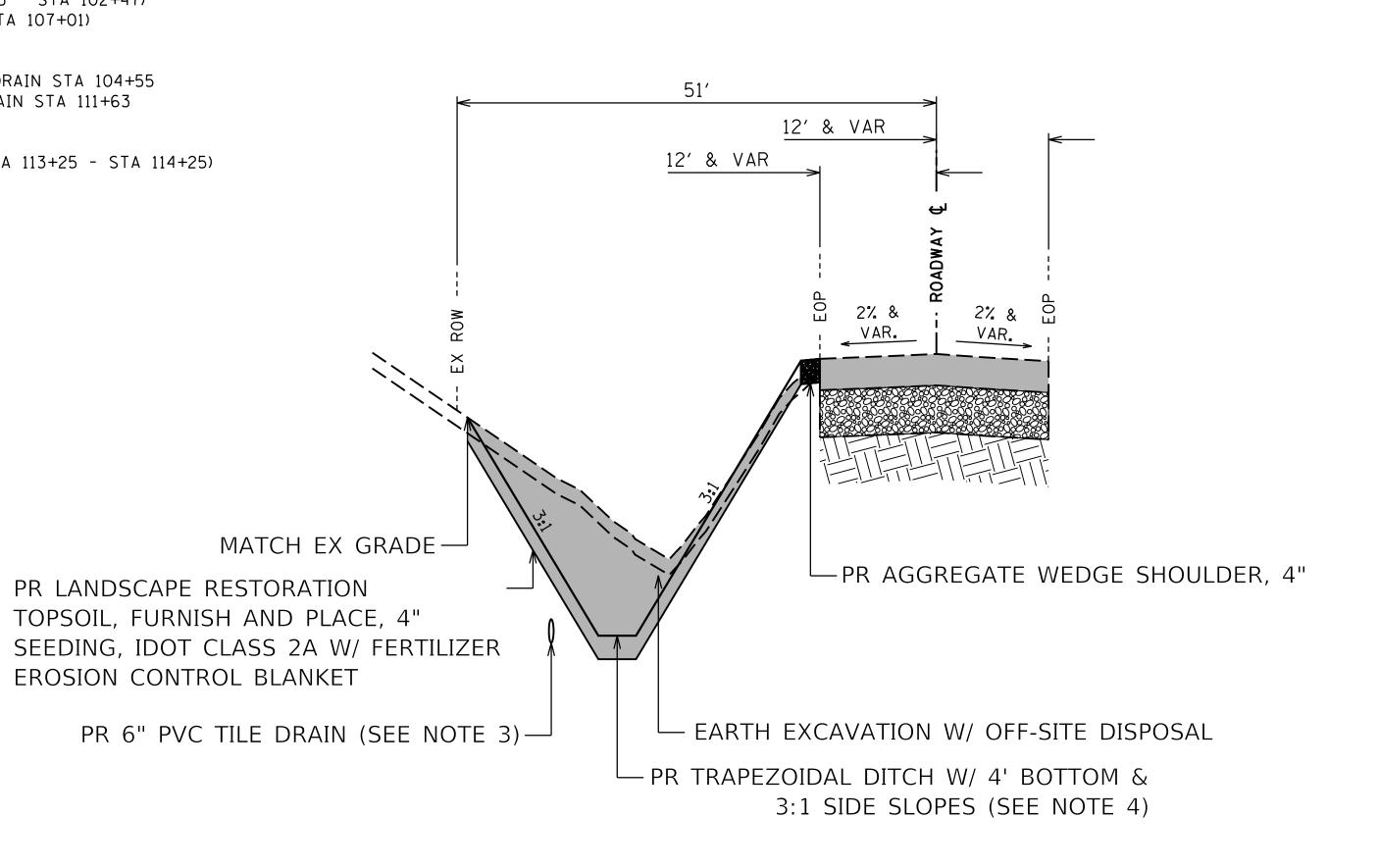
EX TYPICAL SECTION STA 107+01 - STA 115+27



PR TYPICAL SECTION STA 101+25 - STA 107+01



NOTE 1 34' (STA 101+25 - STA 102+47) 36' (STA 102+47 - STA 107+01) NOTE 2 PR TYPICAL SECTION STA 107+01 - STA 115+27



N STREET, SUITE 201

N STREET, SUITE 201

HIGHWAY DEPARTMENT
6780 ROUTE 47

YORKVILLE, IL 60560
630-553-7616

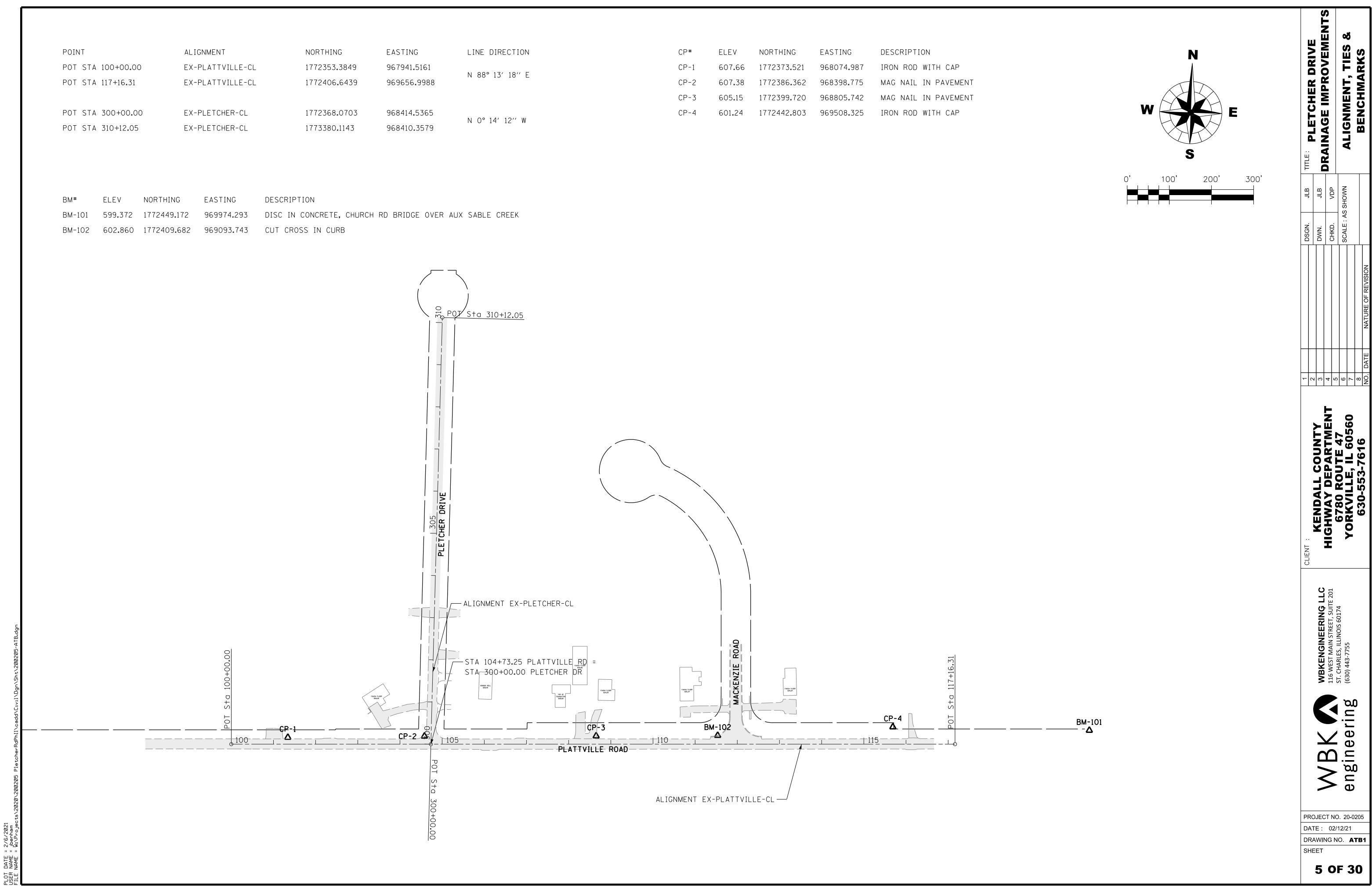
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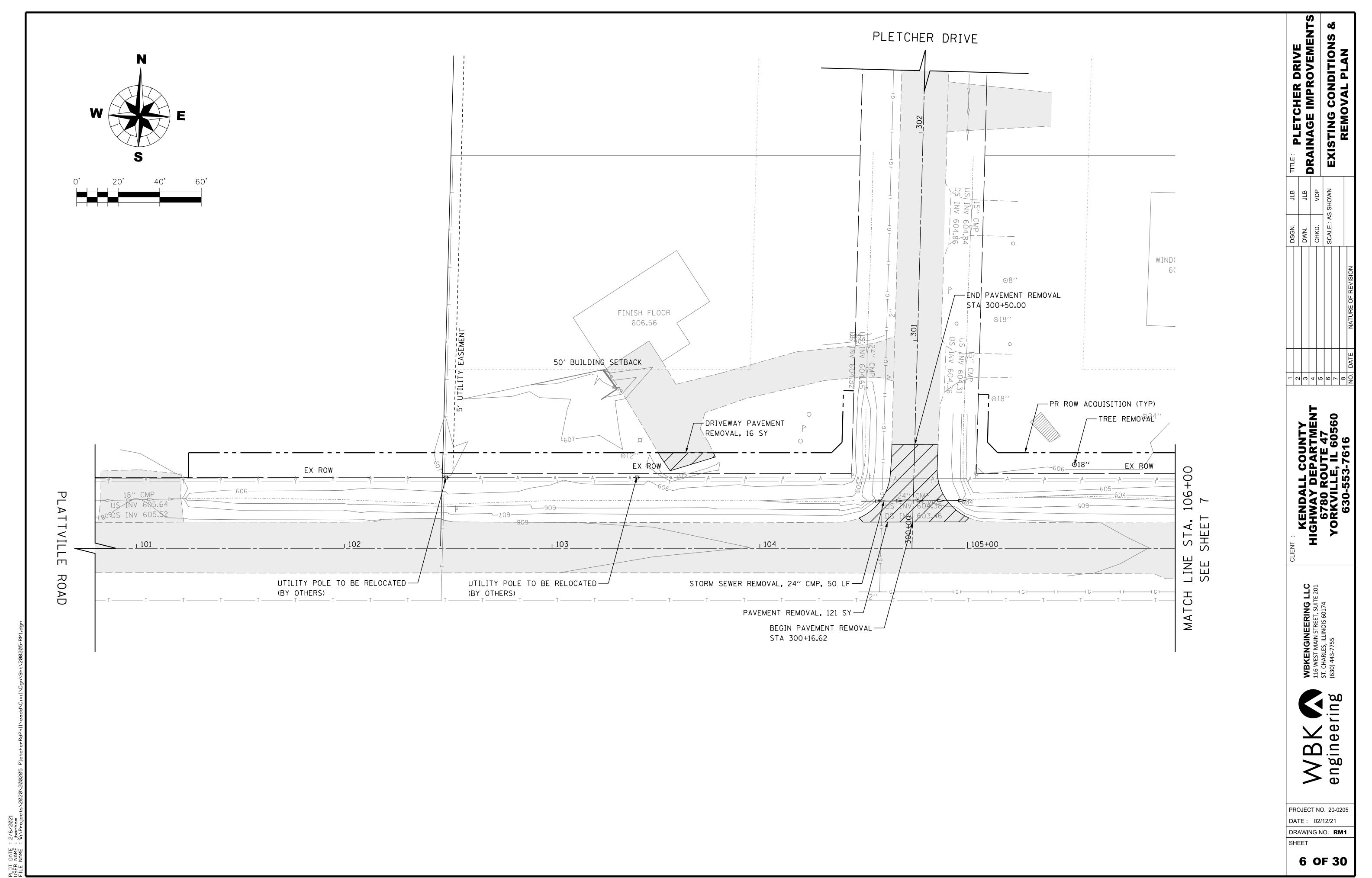
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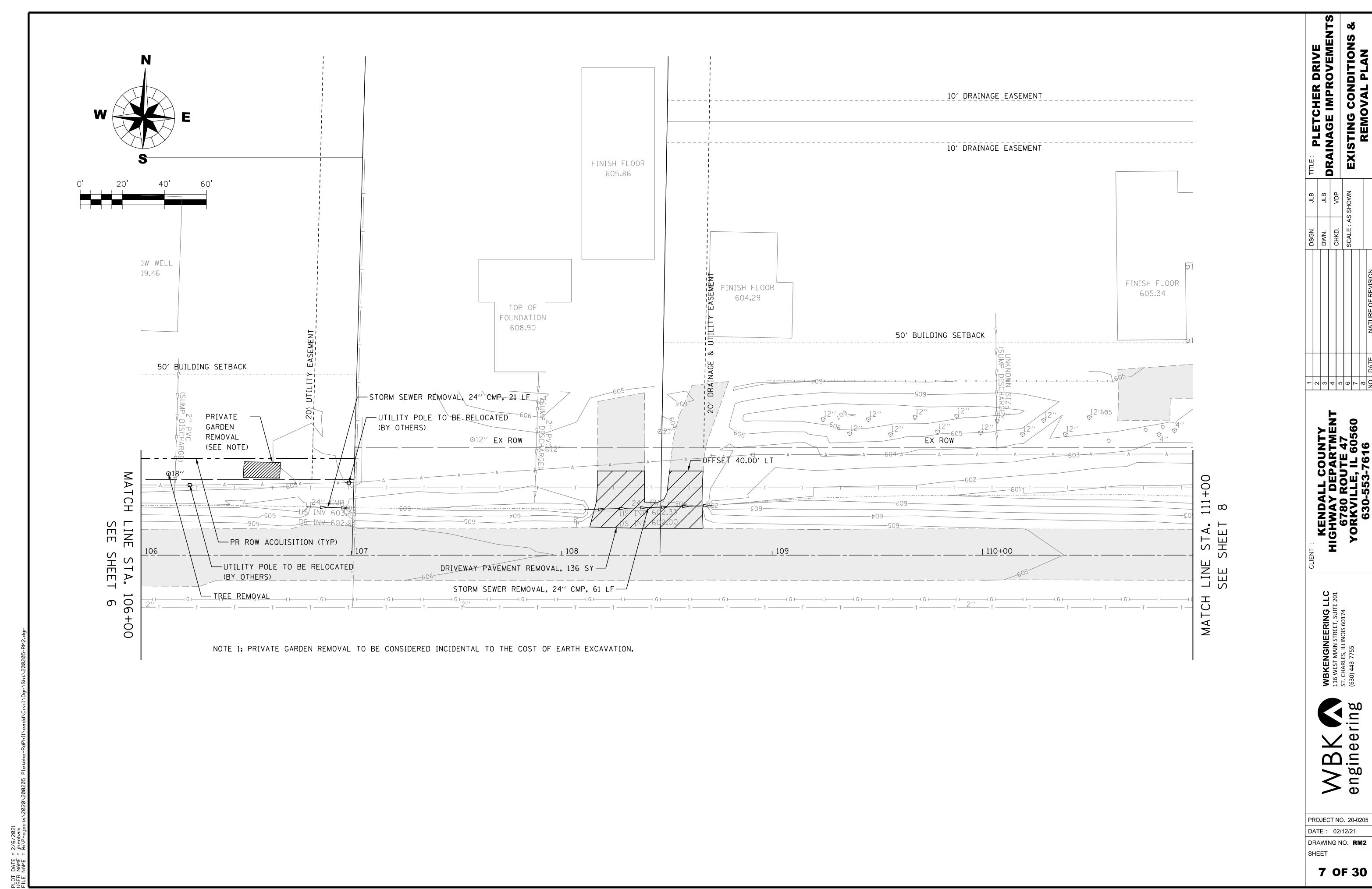
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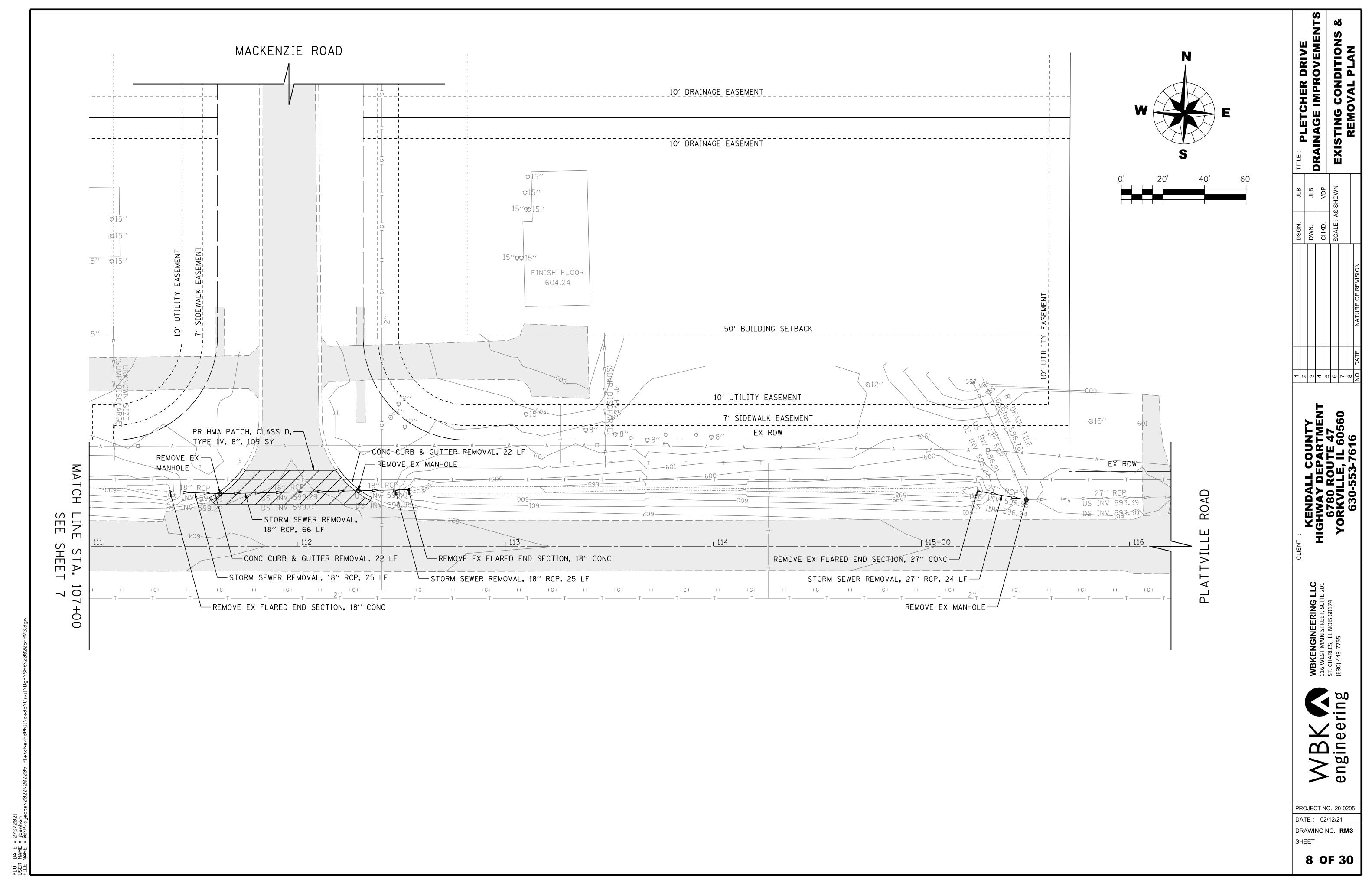
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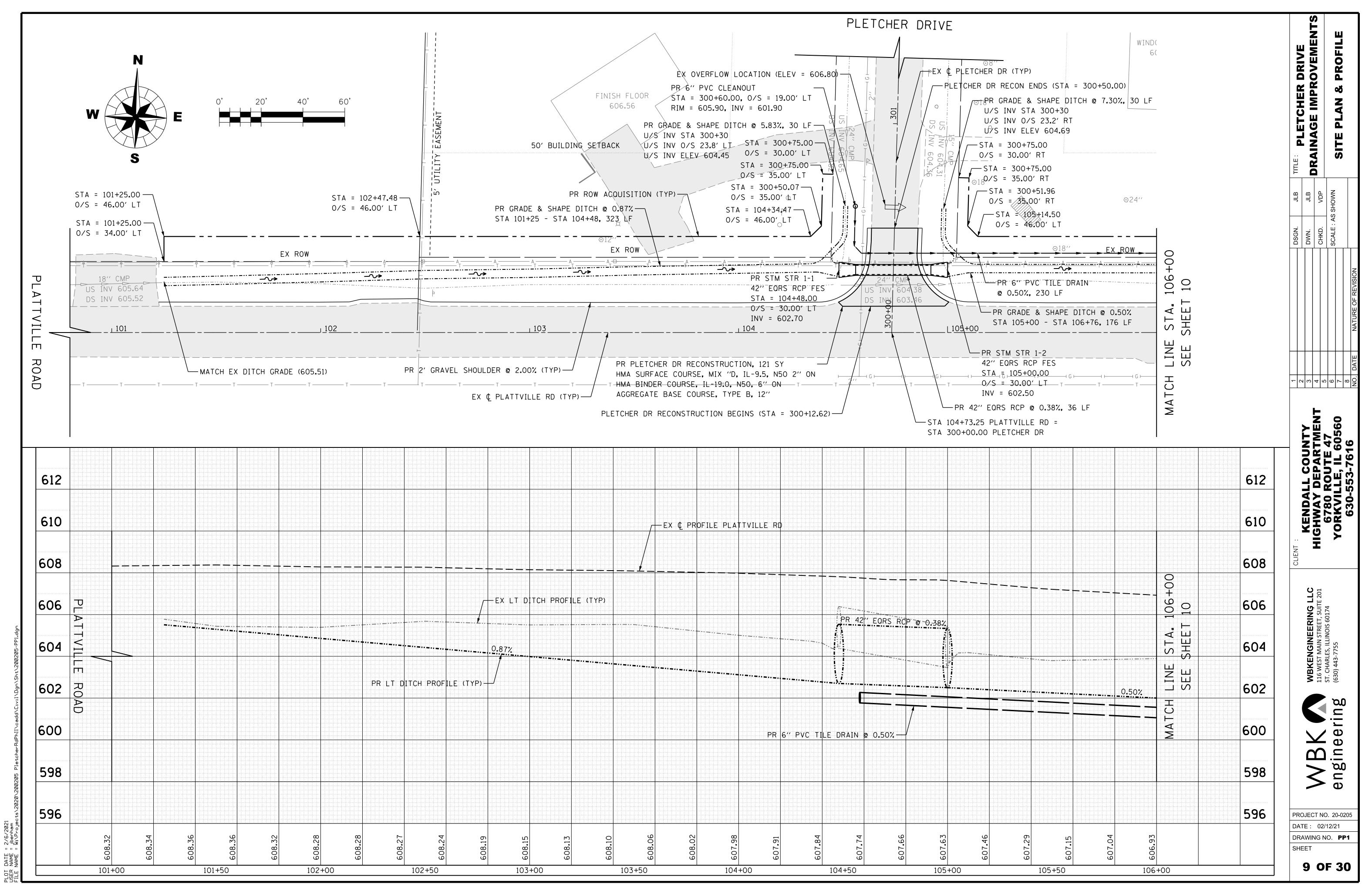
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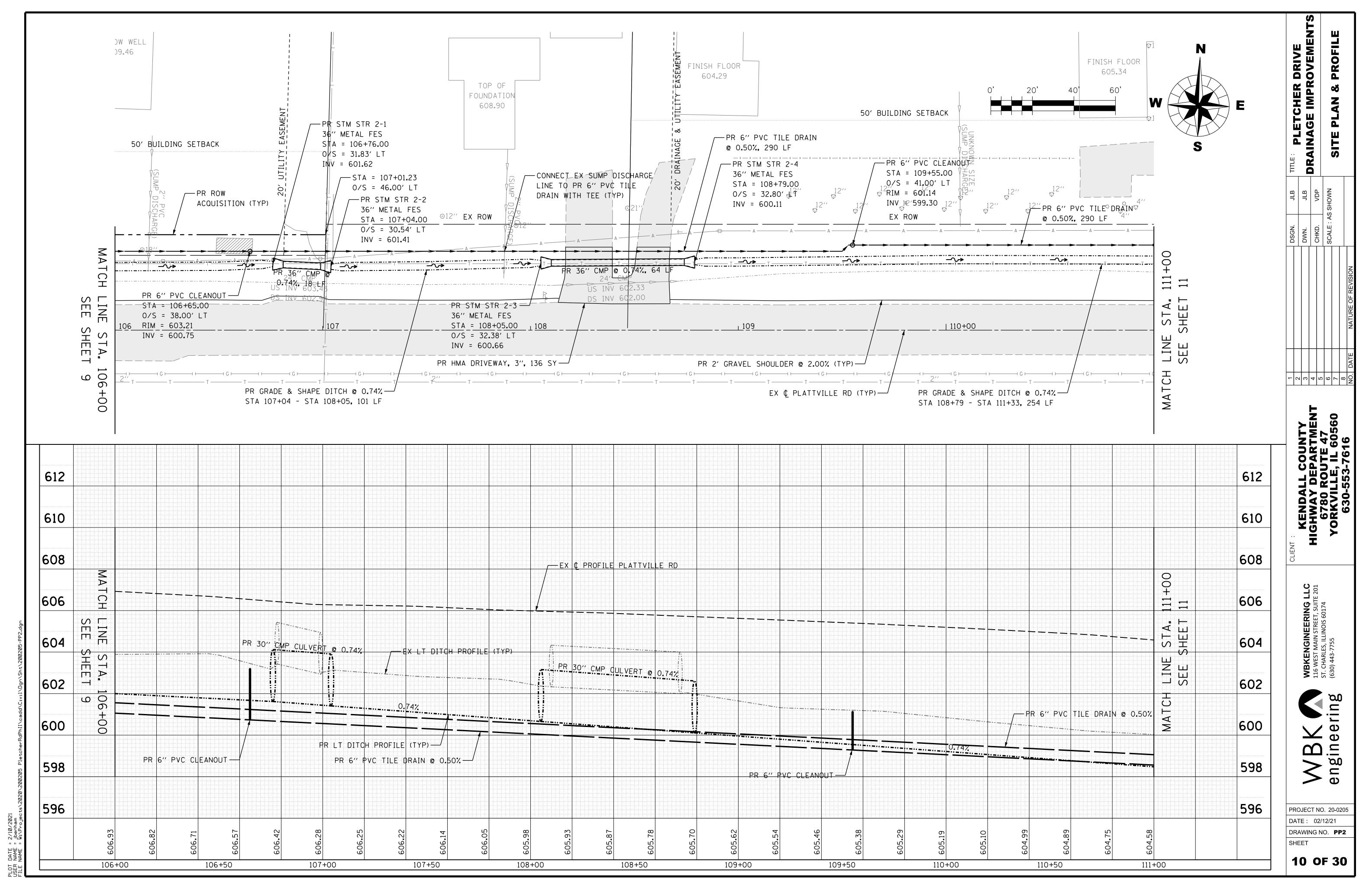


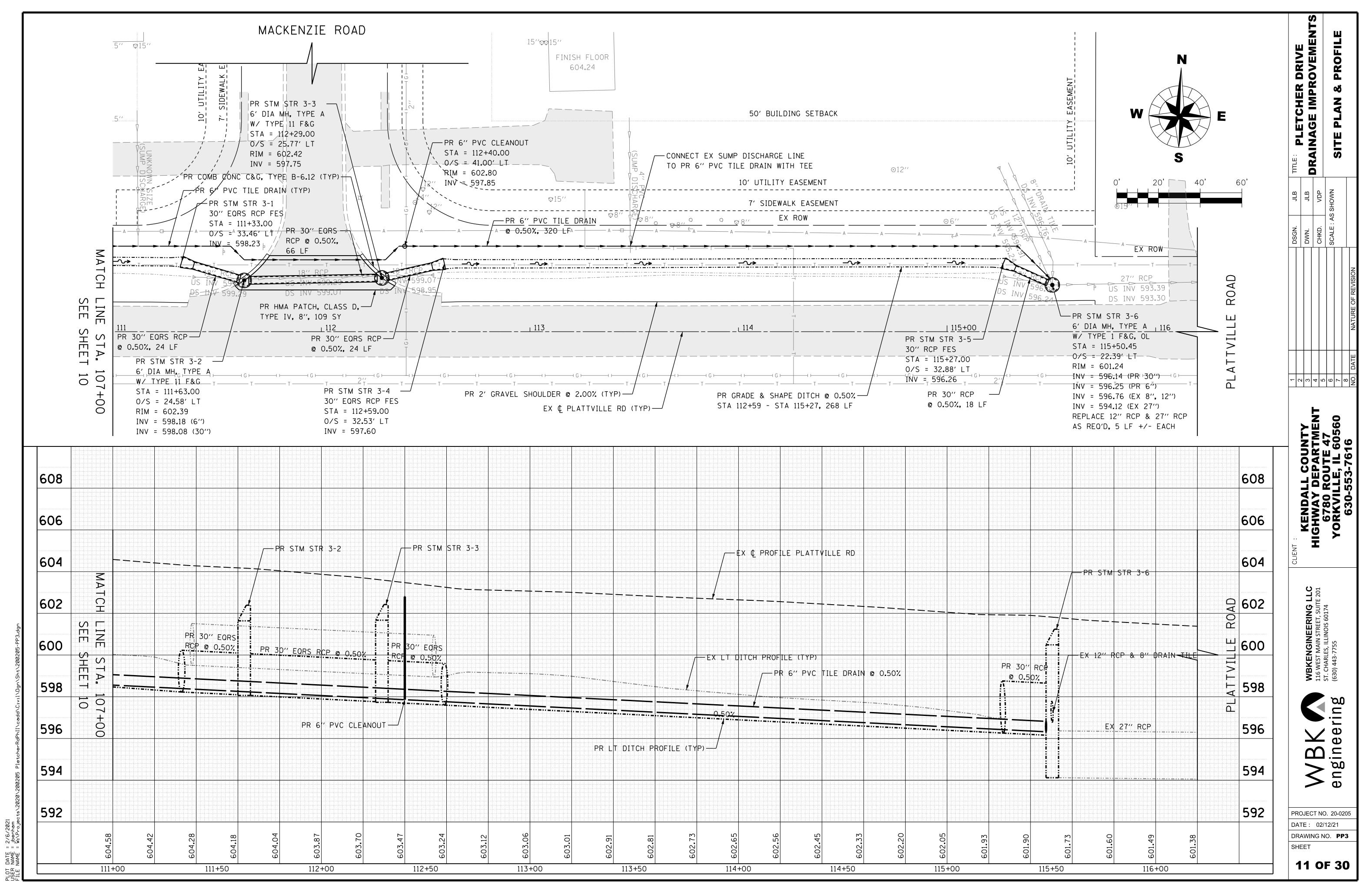












THIS STORMWATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL

PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THE PERMIT IS ISSUED AND EFFECTIVE FROM AUGUST 3, 2018 AND IT EXPIRES ON JULY 31, 2023. THE PLAN CONSISTS OF THE SWPPP NARRATIVE AND NOTES, THE SWPPP PLAN SHEETS, INCLUDING ON AND OFF-SITE CONTROLS AND THE SWPPP DETAILS. THIS PLAN IS ONLY COMPLETE WHEN THE COMPONENT PARTS ARE INCLUDED.

1. SITE DESCRIPTION:

- A. THE WORK UNDER THIS CONTRACT WILL BE COMPLETED WITHIN THE RIGHT-OF-WAY FOR PLATTVILLE ROAD AND PLETCHER DRIVE.
- B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF THE MAJOR ACTIVITIES WHICH WILL DISTURB SOIL FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:
- a. INSTALL PREVENTATIVE EROSION CONTROL MEASURES INCLUDING ROCK CHECK DAM AT
- DOWNSTREAM SITE OUTLET AND TREE PROTECTION FENCING. b. INSTALL NEW STORM SEWER AND DRIVEWAY/ROADWAY CULVERT IMPROVEMENTS.
- c. INSTALL NEW ROCK OUTLET PROTECTION.
- d. EXCAVATE, GRADE AND SHAPE NEW DITCHES. INSTALL PIPE UNDERDRAIN SYSTEM AND
- PLACE TEMPORARY DITCH CHECKS CONCURRENTLY.
- e. REPLACE CONCRETE COMBINATION CURB AND GUTTER. f. REPLACE ASPHALT DRIVEWAY/ROADWAY PAVEMENTS.
- g. RESTORE ALL AREAS OF DISTURBANCE WITH TOPSOIL, SEED, AND EROSION CONTROL
- h. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES FROM THE SITE.
- C. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.0 ACRES. THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING OR OTHER
- D. THE ESTIMATED RUNOFF COEFFICIENT FOR THE PROJECT IS 0.3 FOR EXISTING CONDITIONS AND 0.3 FOR THE PROPOSED PROJECT.
- E. A SITE MAP INDICATING DRAINAGE PATTERNS, APPROXIMATE SLOPES, VEHICLE ENTRANCES AND EXITS, CONTROLS FOR PREVENTION OF OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, LOCATIONS OF STRUCTURAL AND NONSTRUCTURAL CONTROLS, LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, LOCATIONS OF STOCKPILES OR MATERIAL STORAGE, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED INTO SURFACE WATER IS INCLUDED ON SHEET EC1.
- F. THE SITE DRAINS BY CHANNELIZED DITCH FLOW INTO A STORM SEWER WHICH IS DIRECTLY TRIBUTARY TO AUX SABLE CREEK. THERE ARE 0.0 ACRES OF WETLANDS ONSITE.

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1.B ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO AND ARE A PART OF THIS PLAN. THE SOIL EROSION AND SEDIMENT CONTROL PLAN DRAWINGS INCLUDED, DEFINE THE SIZE AND LOCATION OF THE MEASURES TO BE INSTALLED DURING THE CONSTRUCTION OF THIS PROJECT.

A. SOIL EROSION AND SEDIMENT CONTROLS

- a. STABILIZATION PRACTICES:
- PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE, AND WHEN STABILIZATION MEASURES ARE INITIATED ARE INCLUDED IN THE PLAN. EXCEPT AS PROVIDED IN 2.A.a AND 2.B, STABILIZATION MEASURES SHALL BE PERFORMED ON A DAILY BASIS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE. DESCRIPTION OF STABILIZATION PRACTICES:
- DUST CONTROL WILL BE ACCOMPLISHED USING WATERING TRUCKS AS DIRECTED BY THE ENGINEER.
- SEDIMENT TRACK-OUT WILL BE CONTROLLED THROUGH SWEEPING, SHOVELING, OR VACUUMING PAVED SURFACES OUTSIDE OF THE SITE BY THE END OF THE SAME BUSINESS DAY IN WICH THE TRACK-OUT OCCURS.
- TEMPORARY SEEDING WILL BE USED TO STABILIZE THE CONSTRUCTION AREAS WHERE THE FINAL GRADE HAS BEEN REACHED BUT CANNOT BE PERMANENTLY STABILIZED DUE TO THE PLANTING SEASON RESTRICTIONS.
- VEGETATIVE BUFFER STRIPS WILL BE USED WHERE APPLICABLE.
- STOCKPILES THAT ARE TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL HAVE SOIL EROSION AND SEDIMENT CONTROL PROVIDED. AT A MINIMUM, PERIMETER EROSION BARRIER WILL BE PLACED AROUND THE BOTTOM OF THE
- STOCKPILES THAT ARE TO REMAIN FOR MORE THAN 14 CALENDAR DAYS SHALL RECEIVE TEMPORARY SEED.
- . STRUCTURAL PRACTICES:
- PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. STRUCTURAL PRACTICES WILL BE PLACED ON UPLAND SOILS TO THE DEGREE PRACTICABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT:
- INSTALLATION OF TEMPORARY DITCH CHECKS TO INTERCEPT CHANNELIZED DITCH FLOWS EXITING THE SITE.
- MAINTENANCE AND PROTECTION OF EXISTING TREES, VEGETATION AND OTHER PLANTINGS.
- SUMP PIT FOR DEWATERING SITE AS NEEDED.

B. STORM WATER MANAGEMENT

- PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL THE POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER THE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT. a. THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF
- TECHNICAL GUIDANCE CONTAINED IN THE IEPA'S ILLINOIS URBAN MANUAL AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS. THE STORM WATER POLLUTANT CONTROL
- MEASURES SHALL INCLUDE: ROCK OUTLET PROTECTION
- PIPE UNDERDRAIN SYSTEM
- VEGETATED CHANNELS

- PERMANENT SEEDING WITH EROSION CONTROL BLANKET
- b. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (I.E., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES). STORM WATER MANAGEMENT CONTROL INCLUDES: ROCK OUTLET PROTECTION
- VEGETATED CHANNELS

- a. NON HAZARDOUS WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON-SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE U.S., EXCEPT AS AUTHORIZED BY
- HAZARDOUS WASTE STORAGE & DISPOSAL: SHALL CONFORM TO THE IDOT SPECIAL PROVISION AND BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL
- c. SANITARY WASTE DISPOSAL: THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH THE APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. THE CONTRACTOR SHALL NOT CREATE OR ALLOW UNSANITARY CONDITIONS. SEPARATE AUTHORIZATION IS REQUIRED FOR INSTALLATION OF SANITARY SEWER OR SEPTIC SYSTEMS.
- d. OFF-SITE VEHICLE TRACKING: EACH SITE SHALL HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PLAN DETAILS. WHERE THE CONTRACTOR'S EQUIPMENT IS OPERATED ON ANY PORTION OF THE TRAVELED SURFACE OR STRUCTURES USED BY TRAFFIC ON OR ADJACENT TO THE PROJECT, THE CONTRACTOR SHALL CLEAN (NOT FLUSHING OF) THE TRAVELED SURFACE OF ALL DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS OR MORE FREQUENTLY IF DIRECTED BY THE
- e. DEWATERING DEVICES: IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM SOIL EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH A SUMP PIT INTO A SEDIMENT BASIN. ALL SUMPED DISCHARGES TO WATERS OF THE US SHALL BE PERMITTED BY THE USACE.
- f. SITE CLEANUP: TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM THE DISPOSITION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER SOIL EROSION AND SEDIMENTATION.
- TREATMENT CHEMICALS: POLYMER FLOCCULANTS OR TREATMENT CHEMICALS SHALL BE USED FOR REDUCING TURBIDITY IN STORM WATER RUNOFF AND MINIMIZING EROSION. ALL TREATMENT CHEMICALS SHALL BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION AND WILL ONLY BE USED BY STAFF WHO ARE PROPERLY
- D. APPROVED COUNTY, STATE & LOCAL PLANS: THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE CURRENT VERSION OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL STANDARDS AND SPECIFICATIONS. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE BELOW. REQUIREMENTS SPECIFIED IN SOIL EROSION AND SEDIMENT CONTROL PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS, OR SITE PERMITS APPROVED BY COUNTY, STATE, OR LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF A NOTICE OF INTENT (NOI), INCORPORATED AND ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN. THE SOIL EROSION AND SEDIMENT CONTROL FOR THIS SITE MUST MEET THE REQUIREMENTS OF THE FOLLOWING AGENCIES:

3. MAINTENANCE:

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS. THE CONTRACTOR WILL ASSIGN A SOIL EROSION AND SEDIMENT CONTROL MANAGER (SESCM) TO THE PROJECT. HIS DUTIES WILL BE TO SUPERVISE THE MAINTENANCE OF THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND IMPLEMENTATION OF THIS PLAN.

THE FOLLOWING SHALL BE THE MINIMUM MAINTENANCE REQUIRED:

- A. VEGETATIVE SOIL EROSION MEASURES THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, VEGETATIVE FILTERS, ETC., SHALL BE MAINTAINED PERIODICALLY AND SUPPLIED ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.
- B. WATER TREATMENT SYSTEM WILL BE CLEANED AND ITEMS REPLACED AS RECOMMENDED BY THE DESIGNER OF THE SYSTEM. SEDIMENT ACCUMULATION WILL BE REMOVED AT A MINIMUM WHEN THE HEIGHT IS EQUAL TO 50% OF THE HEIGHT OF THE BAFFLE OR CURTAIN.
- C. PERIMETER EROSION BARRIER AND ROLLED EXCELSIOR LOGS WILL BE EXAMINED REGULARLY AND REPAIRED AS NECESSARY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A HEIGHT EQUAL TO 50% OF THE HEIGHT OF THE BARRIER.
- D. STABILIZED ACCESS ROAD AND STABILIZED CONSTRUCTION ENTRANCES SHALL HAVE SEDIMENT BUILD UP REMOVED AS NECESSARY.

4. INSPECTIONS

THE ENGINEER WILL BE RESPONSIBLE FOR CONDUCTING SOIL EROSION AND SEDIMENT CONTROL INSPECTIONS. THE CONTRACTOR'S SESCM SHALL BE NOTIFIED WHEN THE INSPECTIONS ARE TO TAKE PLACE AND IS EXPECTED TO BE PRESENT DURING THE INSPECTIONS. A MAINTENANCE INSPECTION REPORT WILL BE COMPLETED AFTER EACH INSPECTION. A COPY OF THE REPORT IS TO BE COMPLETED BY THE INSPECTOR AND STORED ON-SITE WITH A COPY GIVEN TO THE CONTRACTOR. THE INSPECTION SHALL INCLUDE ALL DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, THE STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ALL MAJOR OUTFALLS. SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN STORM (OR EQUIVALENT SNOWFALL) THAT IS 0.5 INCHES OR GREATER. DEPTH OF RAIN FALL WILL BE DETERMINED BY AN ON-SITE RAIN GAUGE. THE ENGINEER SHALL READ THE RAIN GAUGE DAILY AND AFTER EACH RAIN STORM.

- A. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY INSPECTIONS WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOWMELT OCCURS.
- B. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.
- C. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS

- ENTERING THE DRAINAGE SYSTEM AND WATERWAYS. SOIL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF THE COMPLETION OF THE INSPECTION REPORT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER THE MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE TRACKING.
- D. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE, THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTION SHALL BE IMPLEMENTED WITHIN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.
- E. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTION TAKEN IN ACCORDANCE WITH SECTION 4.B SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL
- F. IF ANY VIOLATIONS OF THE PROVISIONS OF THIS PLAN ARE IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE ENGINEER SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ABOUT THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. THE IEPA MUST BE NOTIFIED BY PHONE, FAX, OR E-MAIL WITHIN 24 HOURS OF THE DISCOVERY OF THE NONCOMPLIANCE ACTION. THE ION REPORT MUST BE FILED WITHIN 5 DAYS OF THE INCIDENT. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL 1021 NORTH GRAND AVENUE EAST P.O. BOX 19276 SPRINGFIELD, IL 62794-9276

NON-STORM WATER DISCHARGES:

epa.swnoncomp@illinois.gov

ADDRESS:

EXCEPT FOR THE FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY ARE TREATED BY THE MEASURES INCLUDED IN THESE PLANS. THESE SOURCES INCLUDE THE FOLLOWING:

- FIRE HYDRANT FLUSHINGS
- WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
- WATER USED TO CONTROL DUST
- POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS LANDSCAPE IRRIGATION DRAINAGES
- ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS
- PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS
- MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
- UNCONTAMINATED AIR CONDITIONING CONDENSATE
- UNCONTAMINATED GROUND WATER FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS

6. INVENTORY FOR POLLUTION PREVENTION PLAN:

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION. (TABLE TO BE FILLED IN BY CONTRACTOR)

7. SPILL PREVENTION - MATERIAL MANAGEMENT PRACTICES:

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 STORMWATER RUNOFF.

GOOD HOUSEKEEPING:

CONSTRUCTION PROJECT:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE

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

HAZARDOUS PRODUCTS:

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
- 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:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. 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
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCES.

8. POST-CONSTRUCTION STORMWATER MANAGEMENT

THE FOLLOWING MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION AND MAINTENANCE OF THESE MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA. THE MEASURES ARE AS FOLLOWS:

- ROCK OUTLET PROTECTION
- PIPE UNDERDRAIN SYSTEM
- VEGETATED CHANNELS PERMANENT SEEDING WITH EROSION CONTROL BLANKET

ADDITIONAL EROSION AND SEDIMENT NOTES

FLOODWAY.

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL (LATEST EDITION).
- 2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
- 5. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE DISCHARGE. PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS AT THE INLET AND OUTLET USING EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES. SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER
- STRUCTURES IS STRICTLY PROHIBITED. 6. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
- REQUIREMENTS SET FORTH BY THE ILLINOIS EPA. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR CRITICAL AREAS
- SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOWS. 8. THE COMPLETED SLOPES SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED
- AT ONE TIME. ALL DISTURBED AREAS SHALL BE COVERED IN AN ACCEPTABLE OR APPROVED TYPE OF
- PERMANENT SEEDING UNLESS OTHERWISE INDICATED. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
- ALL ADJACENT STREETS AND PARKING LOTS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- CONCRETE WASHOUT LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN A MANNER CONSISTENT WITH THE LATEST VERSION OF THE ILLINOIS URBAN
- 13. STOCKPILE LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. STOCKPILES MAY NOT BE LOCATED WITHIN THE LIMITS OF THE

PROJECT NO. 20-0205 DATE: 02/12/21 DRAWING NO. **SW1**

12 OF 30

SHEET

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERM
	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		\triangleright
VEGETATIVE SOIL COVER	DORMANT SEEDING	X	(DS)	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		\triangleright
SOIL COVER	SODDING		(50)	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS		
	PLANTS, TREES, & SHRUBS		GC	WHERE SEEDING MAY BE DIFFICULT. PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		
	MULCHING		M	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.		
NON VEGETATIVE	EROSION CONTROL BLANKET	X	EB	PROTECTS AND PRESERVES MOISTURE FOR PERMANENT SEEDING ON STEEP SLOPES, AREAS OF PERIODIC CONCENTRATED RUNOFF (DITCHES) OR IN AREAS THAT MAY BE DAMAGED BY PEDESTRIAN TRAFFIC.	X	
SOIL COVER	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING		P	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION		CD	TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
DIVERGIONG	COMBINATION DIVERSION		DC	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
DIVERSIONS	CURB AND GUTTER		CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
	COFFERDAM		CD	STRUCTURAL DIVERSION OF WATER FOR CONSTRUCTION IN FLOWING WATER.		
	BARE CHANNEL		BC	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	STRUCTURAL STREAMBANK STABILIZATION		(SSS)	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER.		
WATERWAYS	VEGETATIVE CHANNEL	\times	(v)	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		
	VEGETATIVE STREAMBANK STABILIZATION		(vs)	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER AND PROVIDES NATURAL, PLEASING APPEARANCE.		
	LINED CHANNEL		(LC)	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
	DITCH CHECKS	X	SDC	USED IN DITCHES TO RETARD THE VELOCITY OF WATER IN A DITCH TO MINIMIZE SOIL EROSION PRIOR TO THE DITCH BEING VEGETATED.	X	
ENGLOSED	STORM SEWER		ST	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		
ENCLOSED DRAINAGE	UNDERDRAIN	X	(9)	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		>
	STRAIGHT PIPE SPILLWAY		(SS)	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
ODILL MAYO	DROP INLET SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
SPILLWAYS	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
OUTLETS	LINED APRON		LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
	EMBANKMENT SEDIMENT BASIN		ES	USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
SEDIMENT BASINS	EXCAVATED SEDIMENT BASIN		(xs)	USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
	COMBINATION SEDIMENT BASIN		(cs)	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		
	BARRIER FILTER		BF	USED TO FILTER SEDIMENT FROM RUNOFF.		
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
SEDIMENT FILTERS	FILTER FABRIC		FF	USED FOR ROADWAY CURB INLETS.		
-	SILT FENCE		(SF)	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF.		
	POLYMER TREATMENT		PT	TREATMENT OF WATER WITH ANIONIC POLYACRYLAMIDE TO CAUSE SEDIMENT FLOCCULATION AND DEPOSITION PRIOR TO DISCHARGE.		
MUD AND	STABILIZED CONST. ENTRANCE		(SE)	PREVENTS MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
DUST	DUOT AND TRAFFIC	\overline{V}		PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	_

CONSTRUCTION STAGING:
PLETCHER DRIVE DRAINAGE IMPROVEMENTS PROJECT

PRE-CONSTRUCTION

 INSTALL PREVENTATIVE EROSION CONTROL MEASURES INCLUDING ROCK CHECK DAM AT DOWNSTREAM SITE OUTLET AND TREE PROTECTION FENCING.

CONSTRUCTION

- 1. INSTALL NEW STORM SEWER AND DRIVEWAY/ROADWAY CULVERT IMPROVEMENTS.
- 2. INSTALL NEW ROCK OUTLET PROTECTION.
- 3. EXCAVATE, GRADE AND SHAPE NEW DITCHES. INSTALL PIPE UNDERDRAIN SYSTEM AND PLACE TEMPORARY DITCH CHECKS CONCURRENTLY.
- 4. REPLACE CONCRETE COMBINATION CURB AND GUTTER.
- 5. REPLACE ASPHALT DRIVEWAY/ROADWAY PAVEMENTS.
- 6. RESTORE ALL AREAS OF DISTURBANCE WITH TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
- 7. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES FROM THE SITE.

CONSTRUCTION STAGING NOTES:

THE CONTRACTOR WILL NOT BE ALLOWED TO CLEAR MORE THAN ONE STAGE AT A TIME. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COPMLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF THE STABILIZATION WORK IN AN AREA. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED PRIOR TO STARTING THE NEXT STAGE OF CONSTRUCTION.

WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER TO PROVIDE PROPER SOIL EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET, HEAVY MULCH, OR HYDRO MULCH.

SOIL PROTECTION SCHEDULE

STA TYF	ABILIZATION PE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ост.	NOV.	DEC.
	RMANENT EDING				A				A				
	RMANT EDING	В										+B	
	MPORARY EDING			<u>,C</u>				, D					
NAL II	LCHING -	Ε											
IVIOI	LUTING -												

- A. IDOT SEED MIX CLASS 2A 200 LBS/ACRE
- B. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING
- C. SPRING OATS 100 LBS/ACRE
- D. WHEAT OR CEREAL RYE 150 LBS/ACRE.
- E. HYDRAULIC MULCH 750 LBS AND 1000 GAL OF WATER PER ACRE

INSPECTION AND MAINTENANCE TABLE

ACTIVITY	RESPONSIBLE PARTY	DURATION
MAINTENANCE OF STABILIZATION DURING CONSTRUCTION		DURING CONSTRUCTION AS NEEDED
OBSERVATION OF STABILIZATION DURING CONSTRUCTION		WEEKLY AND W/IN 24 HRS AFTER RAINFALL EVENT OF 0.5" OR GREATER
VEGETATION MAINTENANCE		1 YEAR FROM COMPLETION
VEGETATION AND STABILIZATION MAINTENANCE		ONGOING FROM PROJECT COMPLETION

CONTRACTOR CERTIFICATION

CONTRACTOR CERTIFICA	TION	
NATIONAL POLLUTANT DIS	SCHARGE ELIMINATION SYSTEM (GES ASSOCIATED WITH INDUSTRI	THE TERMS AND CONDITIONS OF THE GENERAL NPDES) PERMIT (ILR10) THAT AUTHORIZES THE AL ACTIVITY FROM THE CONSTRUCTION SITE
GENERAL CONTRACTOR		
SIGNATURE	TITLE	DATE
COMPANY		_
SUB-CONTRACTOR RE	SPONSIBLE FOR:	
SIGNATURE	TITLE	DATE
COMPANY		_
WITNESSED BY OWNER		
SIGNATURE	TITLE	DATE
COMPANY		_

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL GENERAL AND SPECIAL REQUIREMENTS, CONDITIONS, AND PROVISIONS OR ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS ISSUED FOR THIS PROJECT.

WBK ENGINEERING, LLC IS NOT RESPONSIBLE FOR IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN, INCLUDING MAINTENANCE AND/OR REPAIR OF SOIL EROSION AND SEDIMENT CONTROL MEASURES, OR FOR COMPLIANCE OF THE CONTRACTORS (AND SUB-CONTRACTORS) WITH THE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

WBKENGINEE 116 WEST MAIN STRI ST. CHARLES, ILLINOI (630) 443-7755

COUNTY PARTMEN1 JTE 47 , IL 60560 -7616

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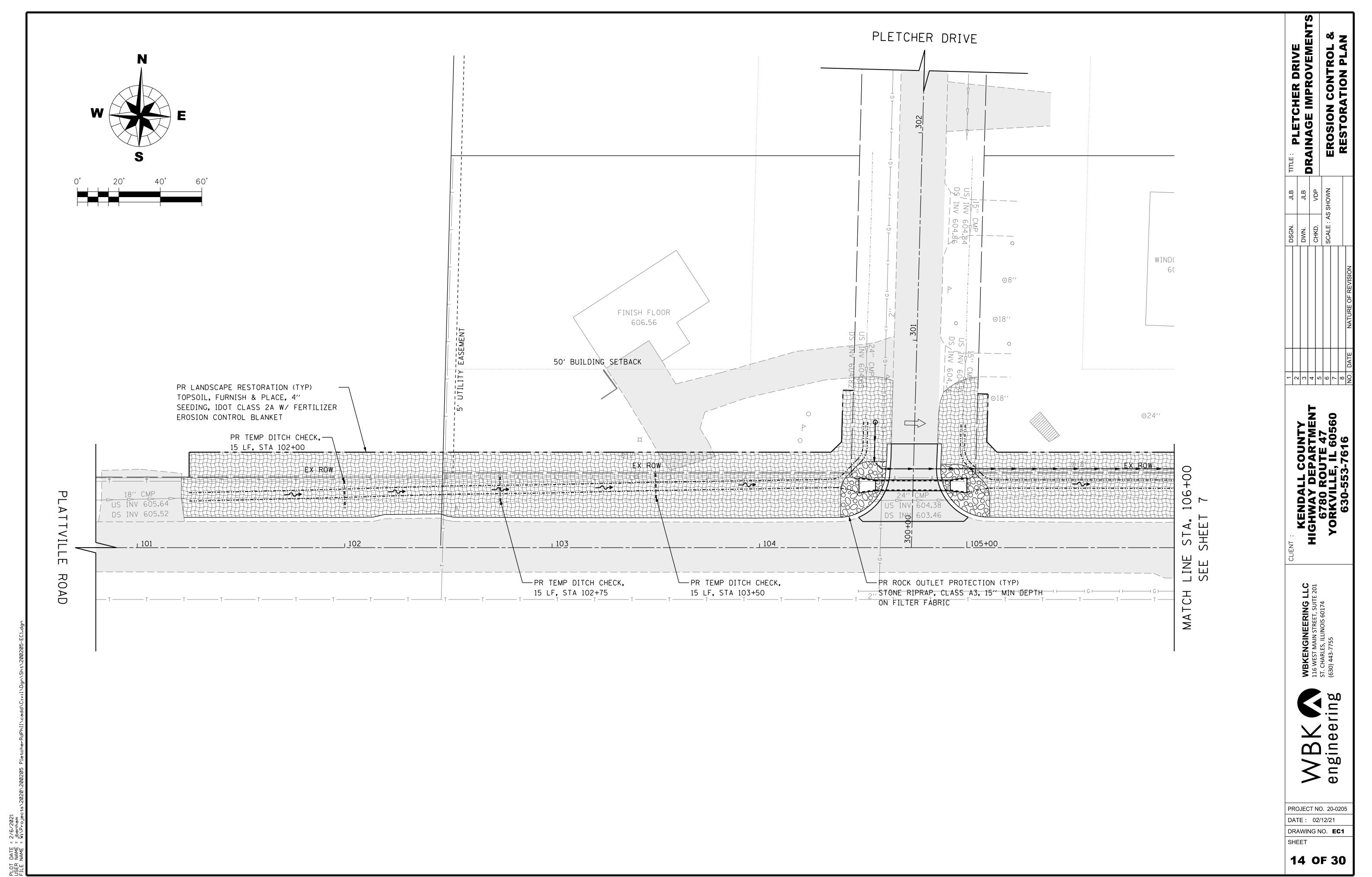
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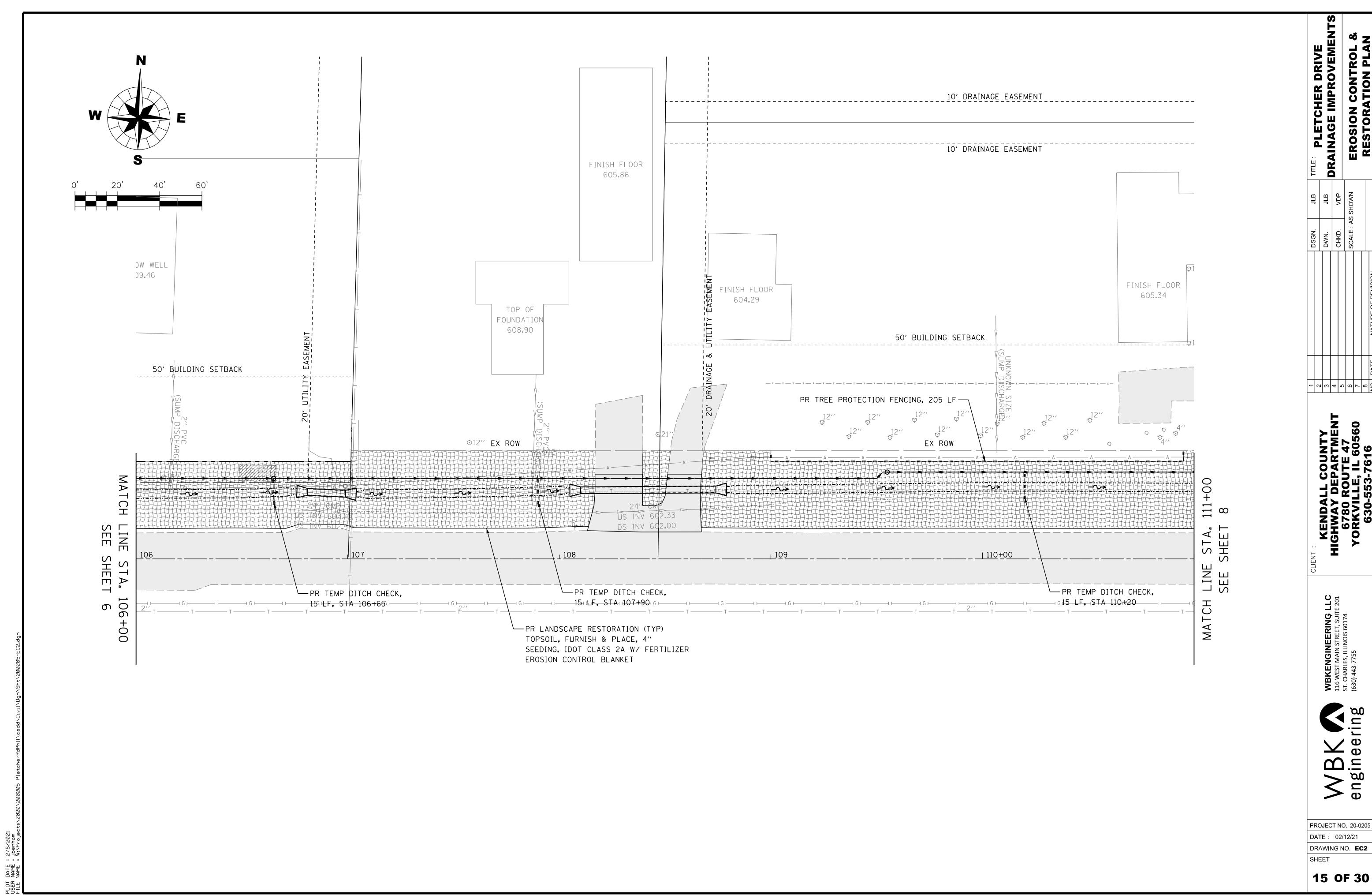
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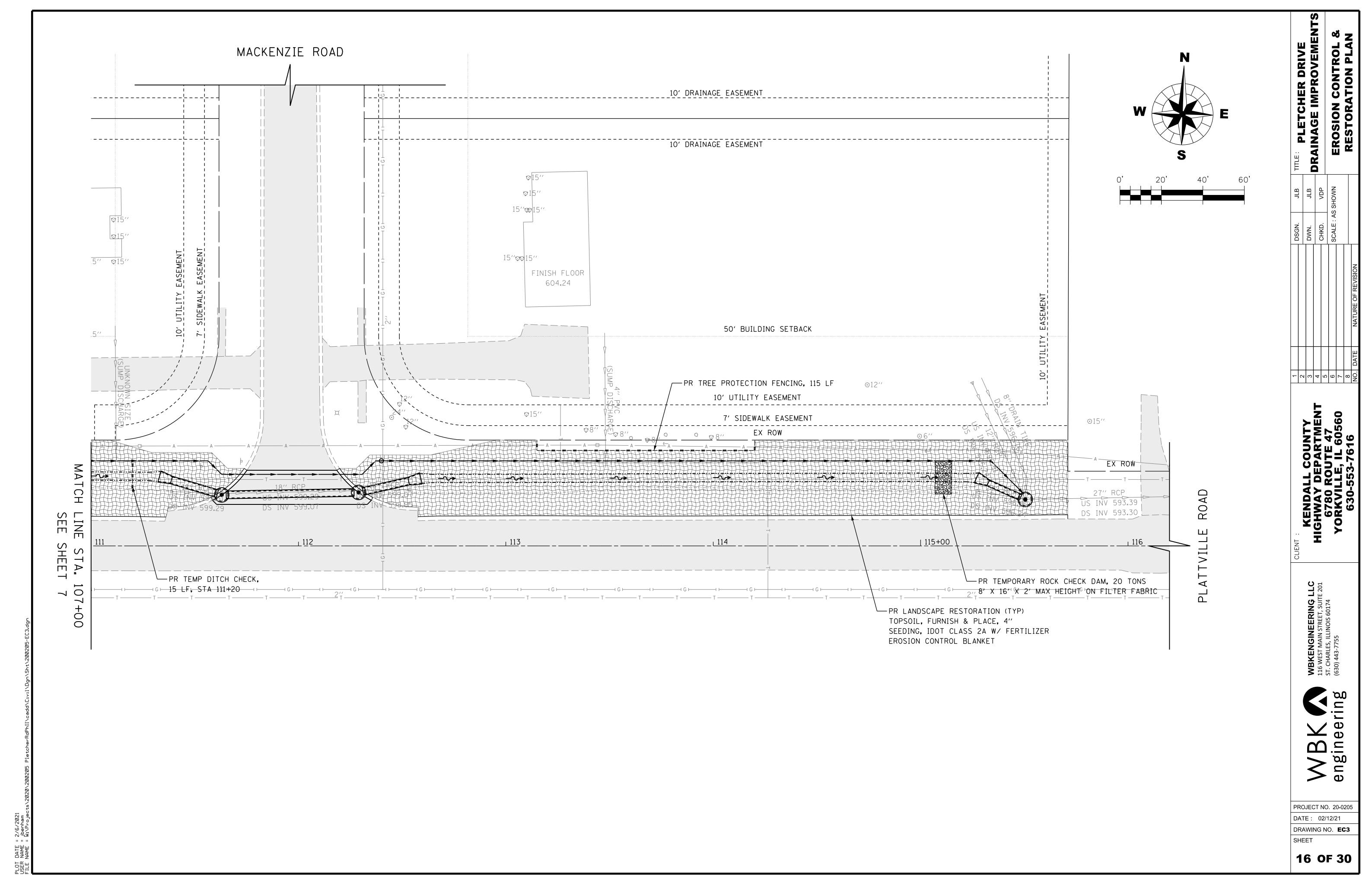
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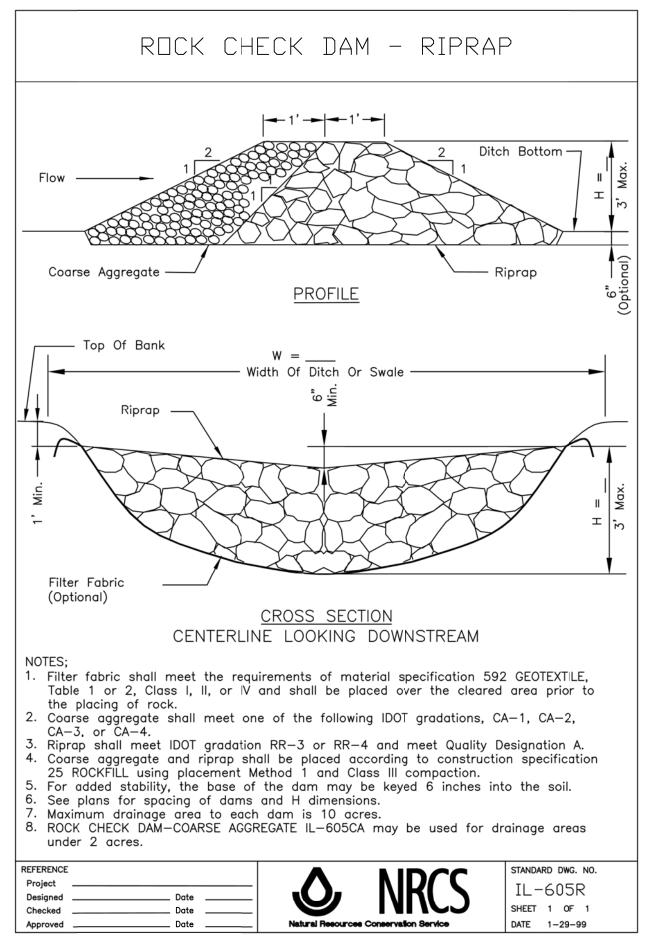
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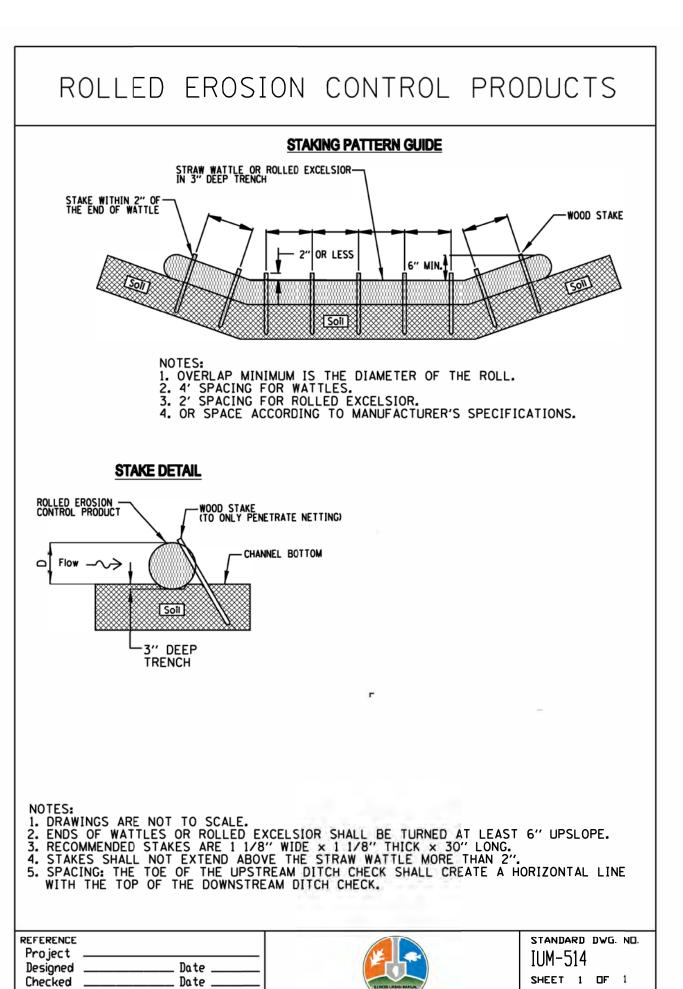
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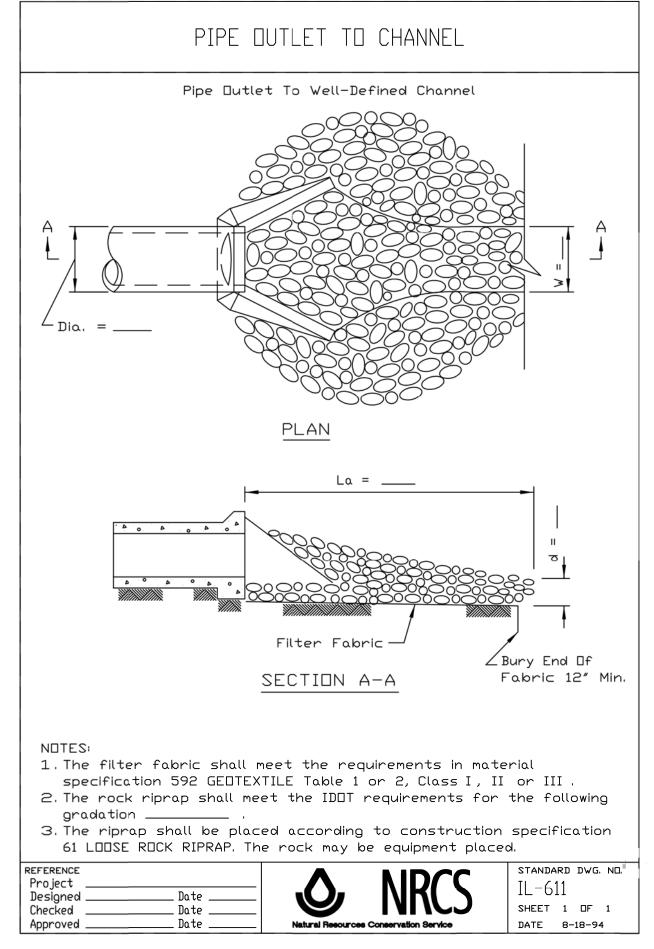


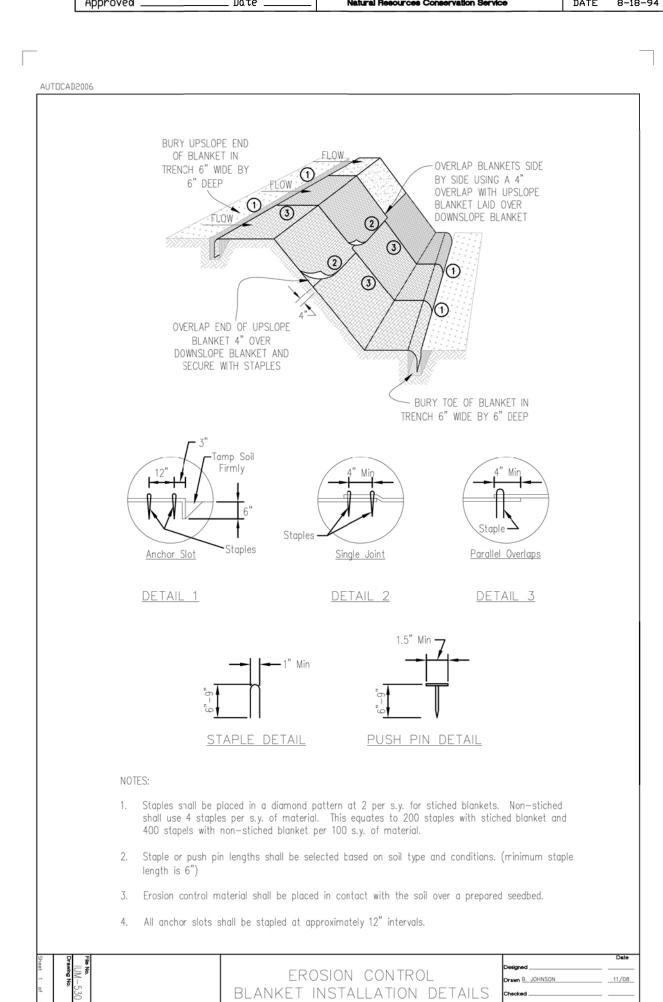


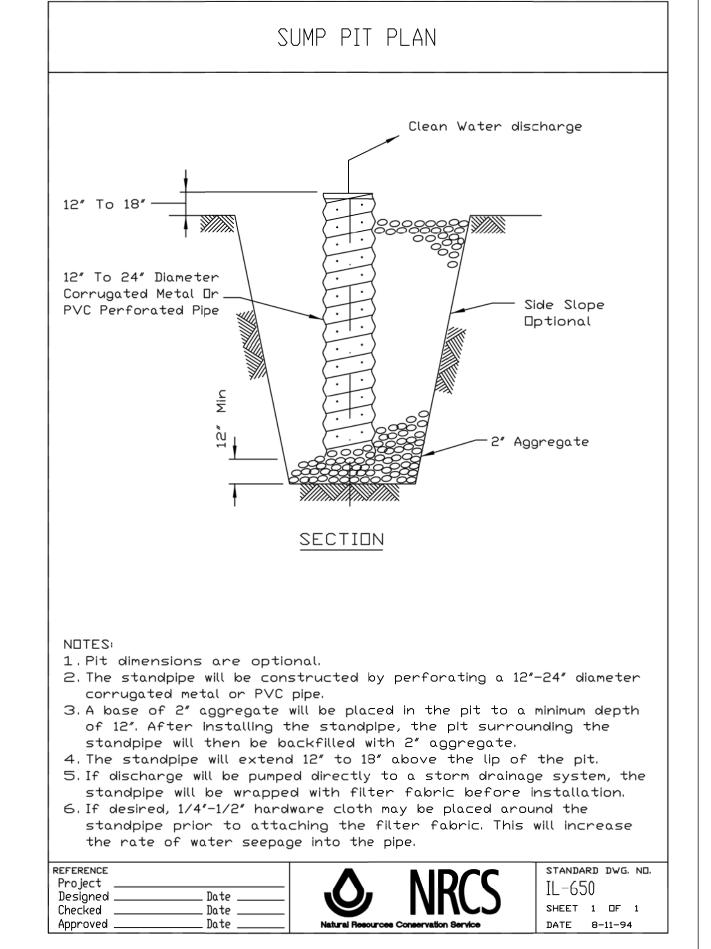


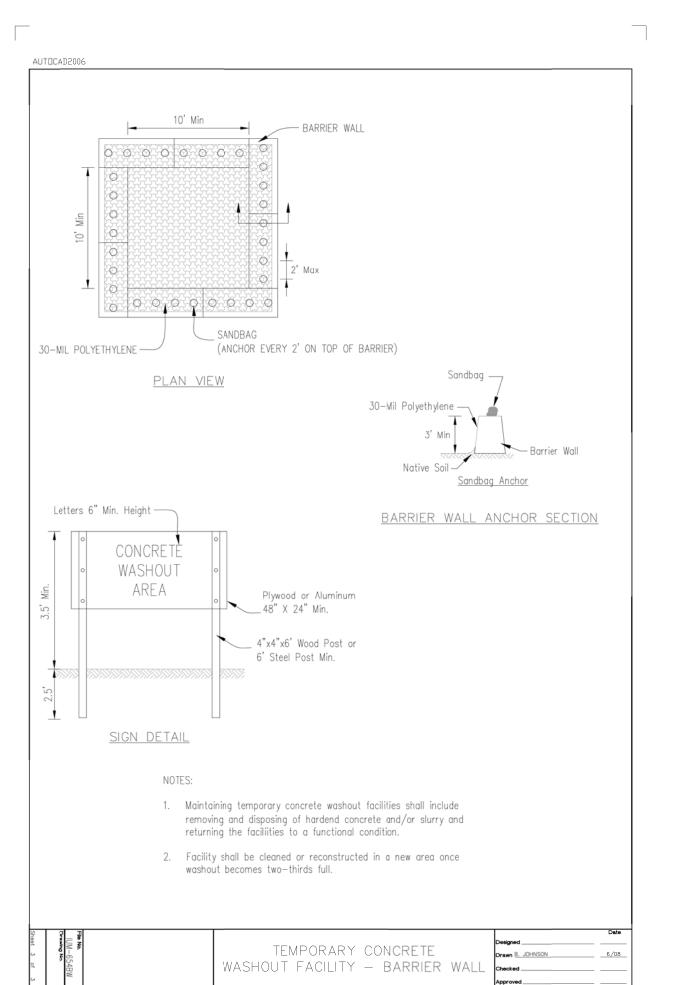


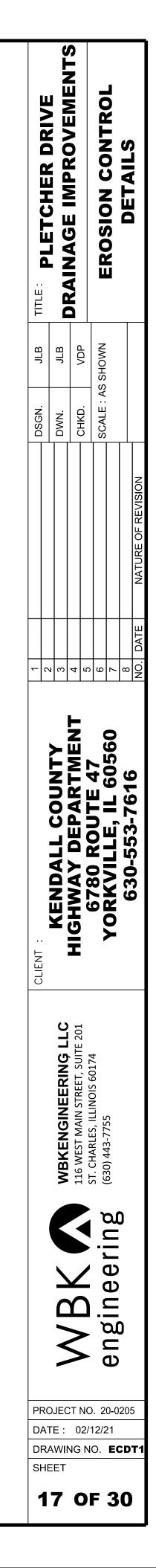
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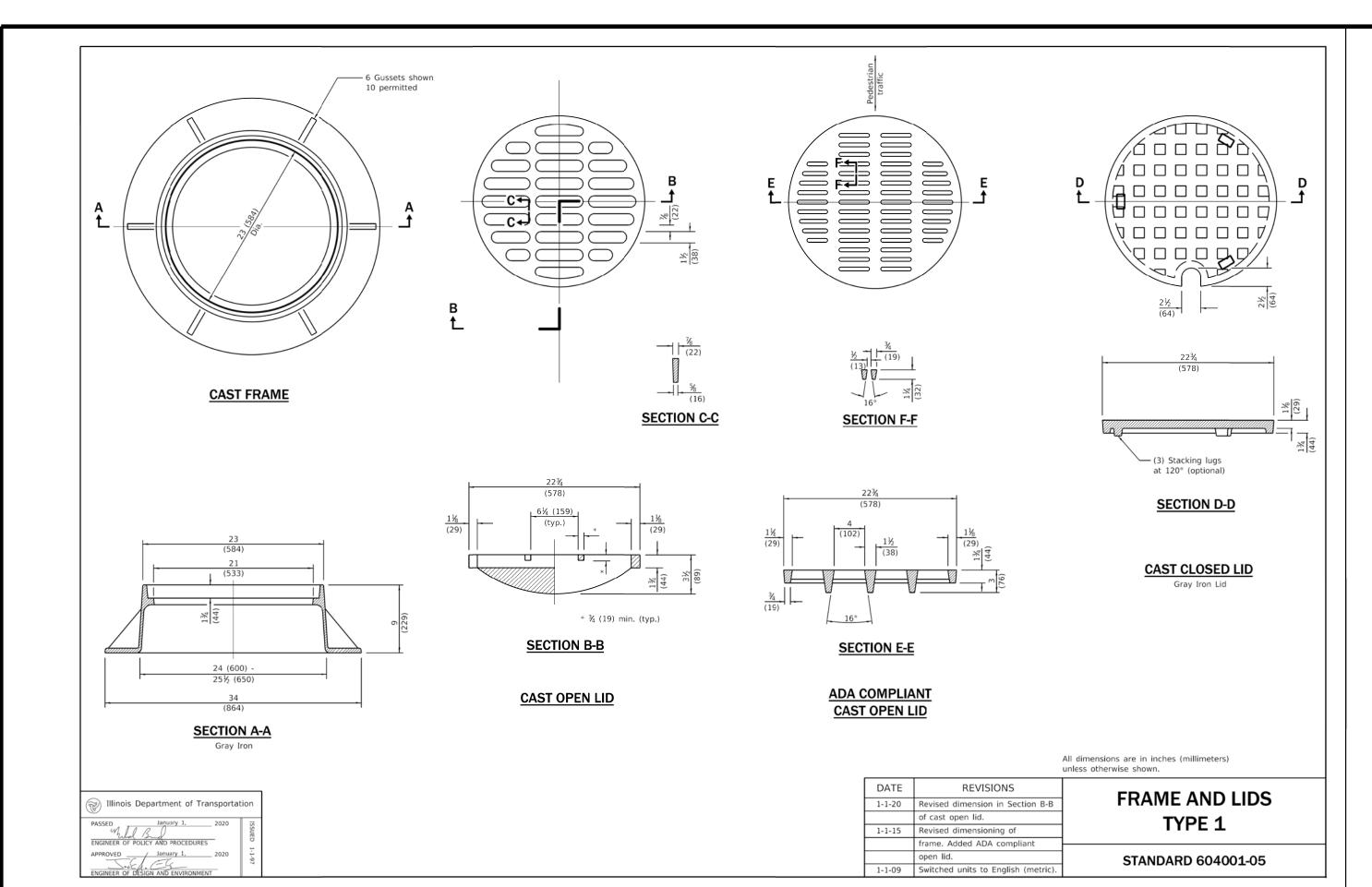


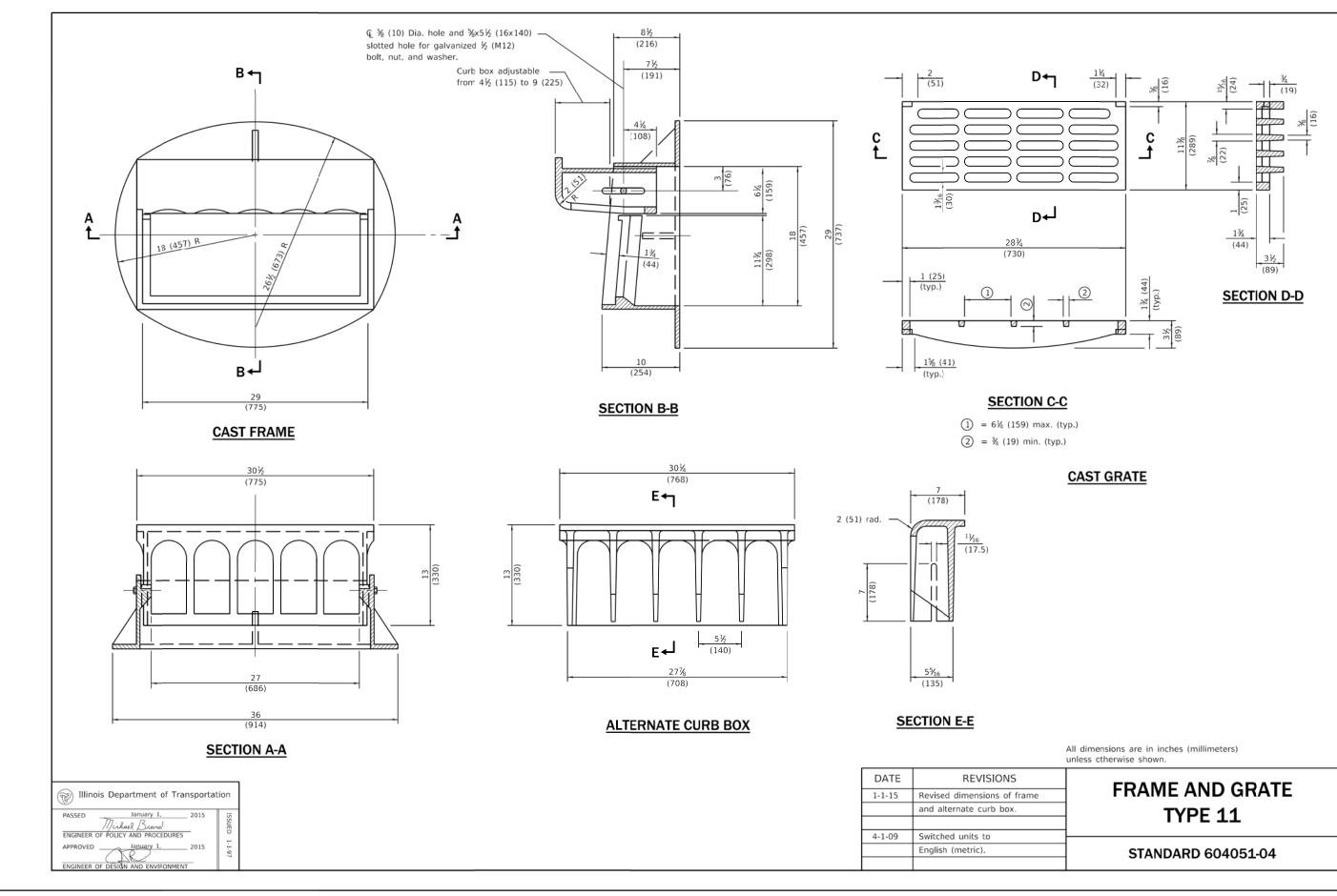


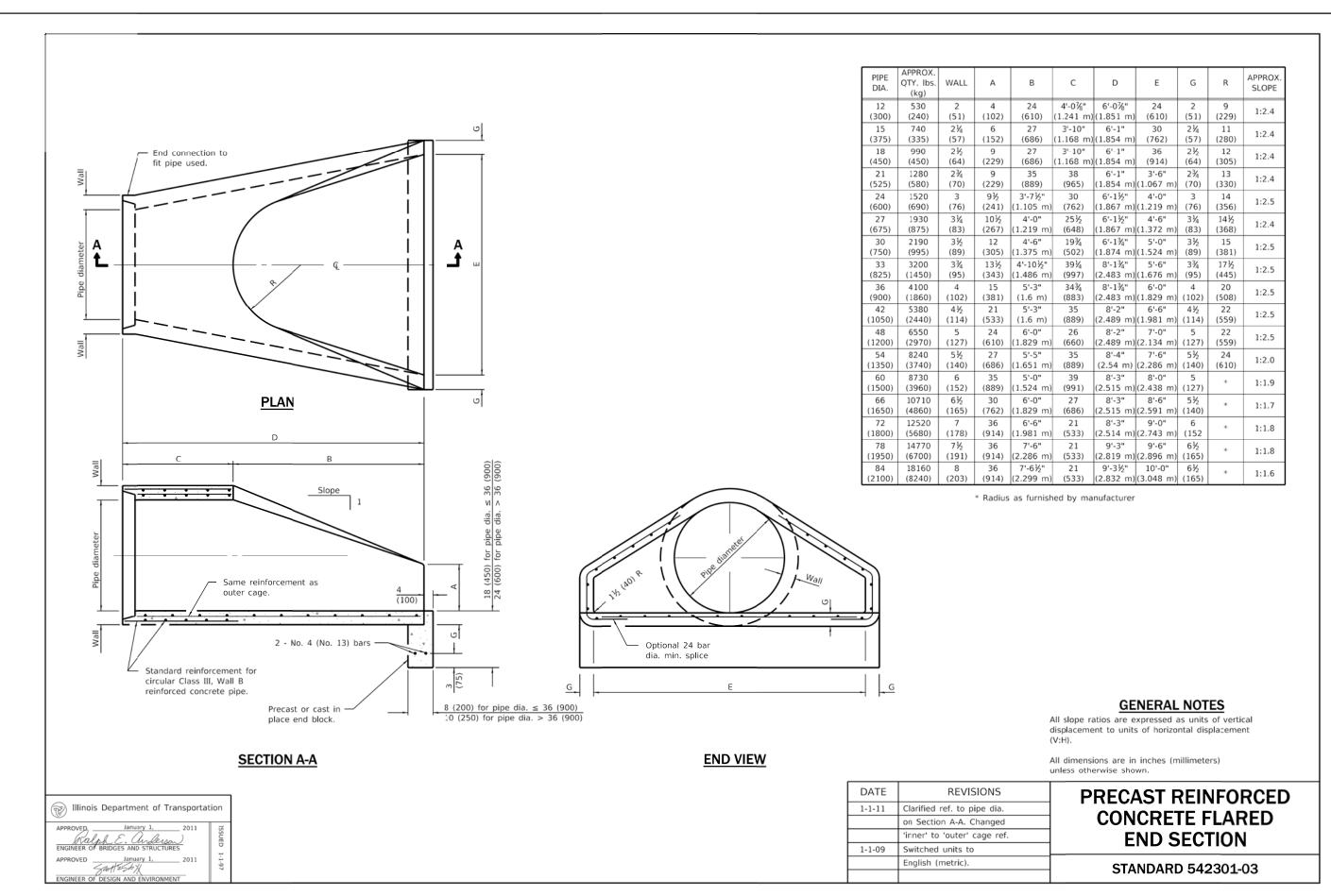


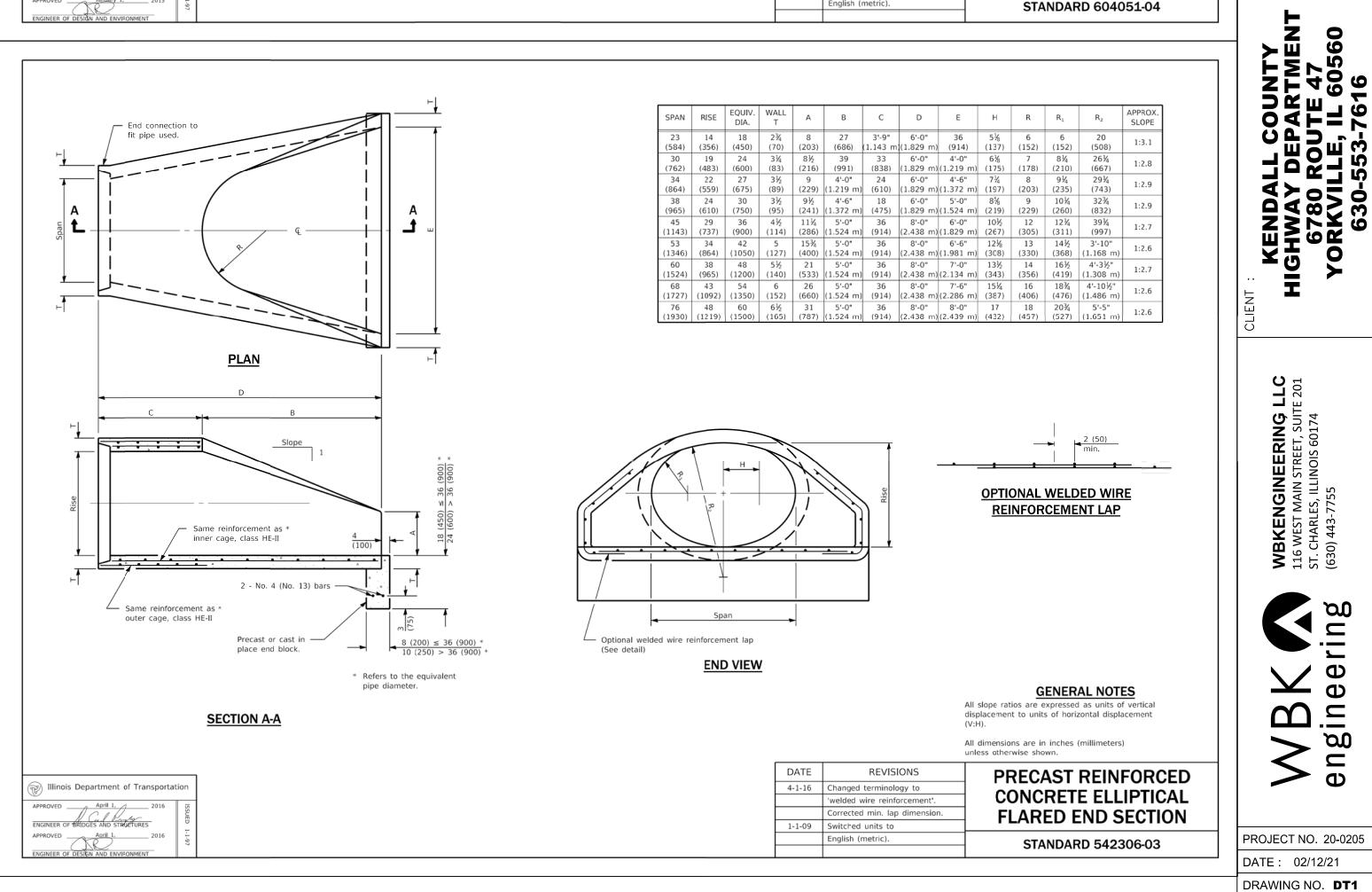


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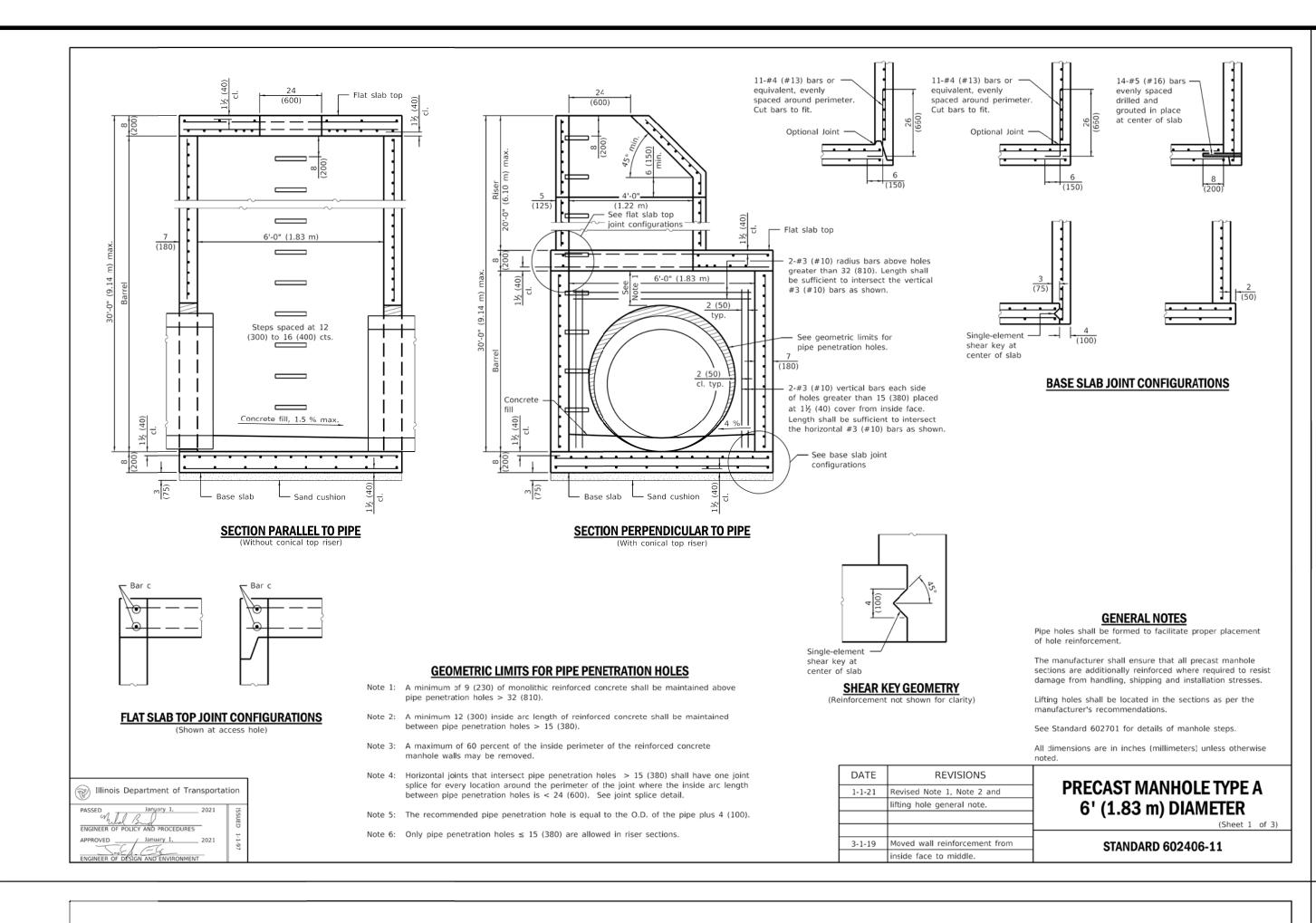


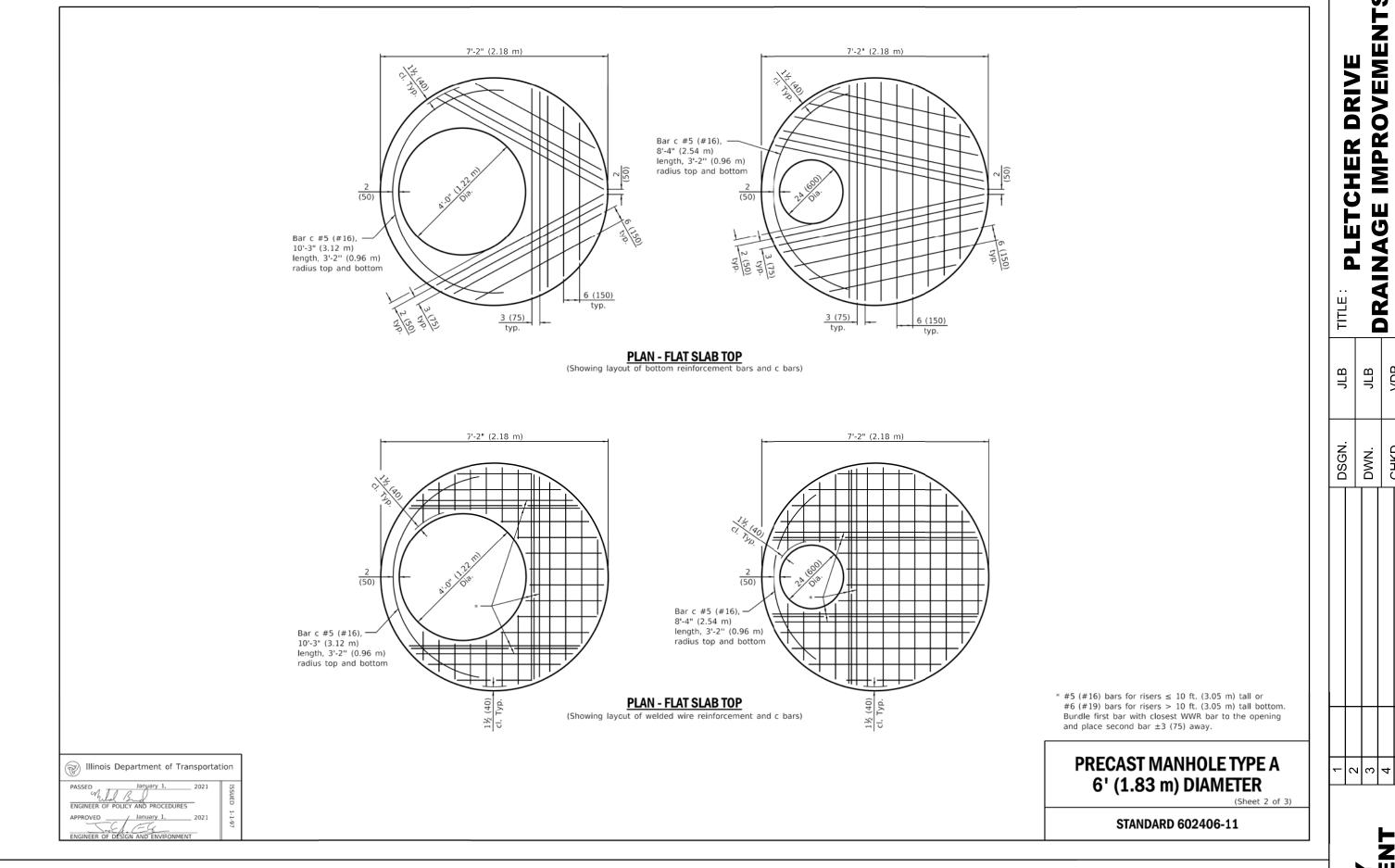
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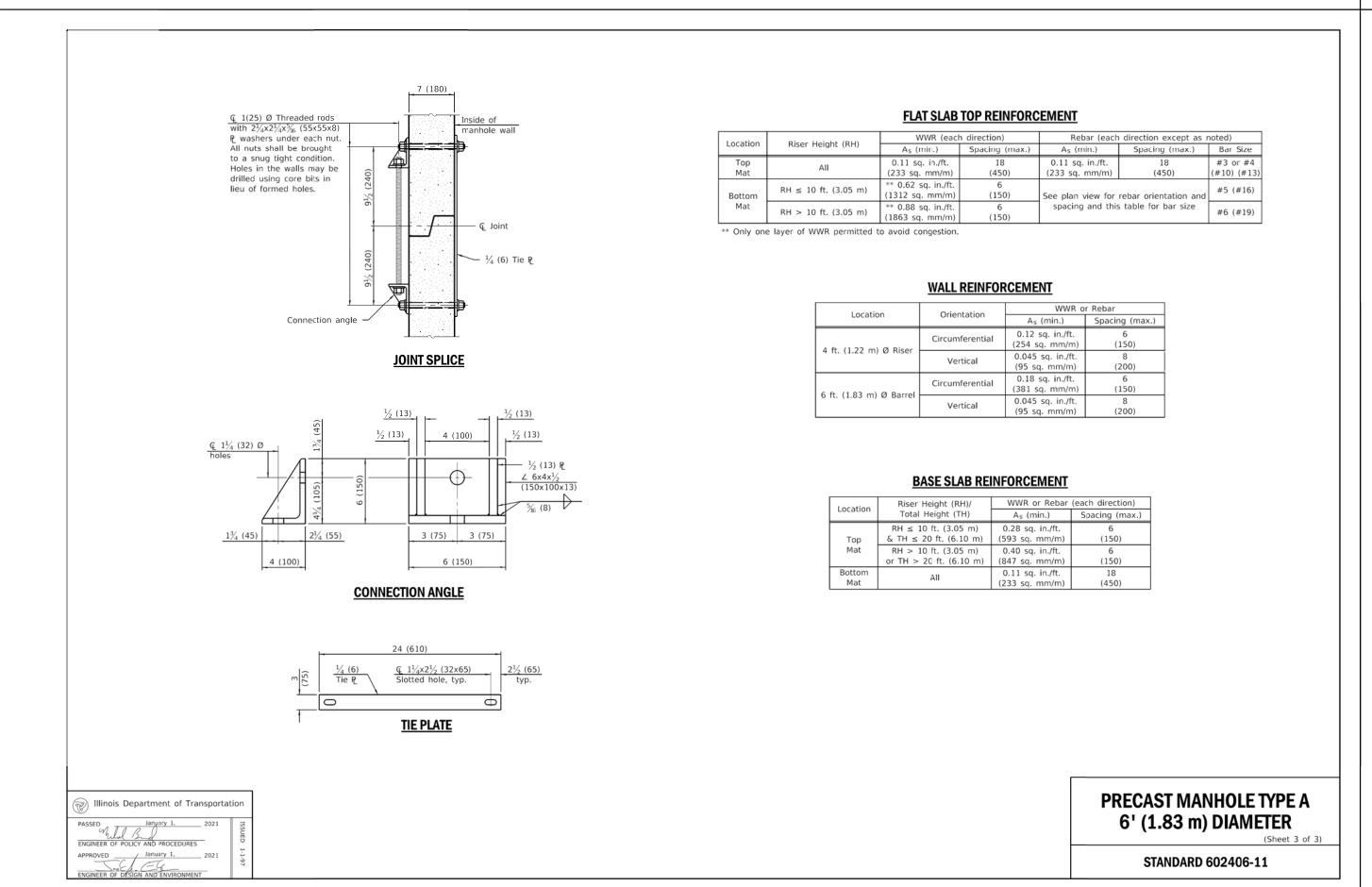
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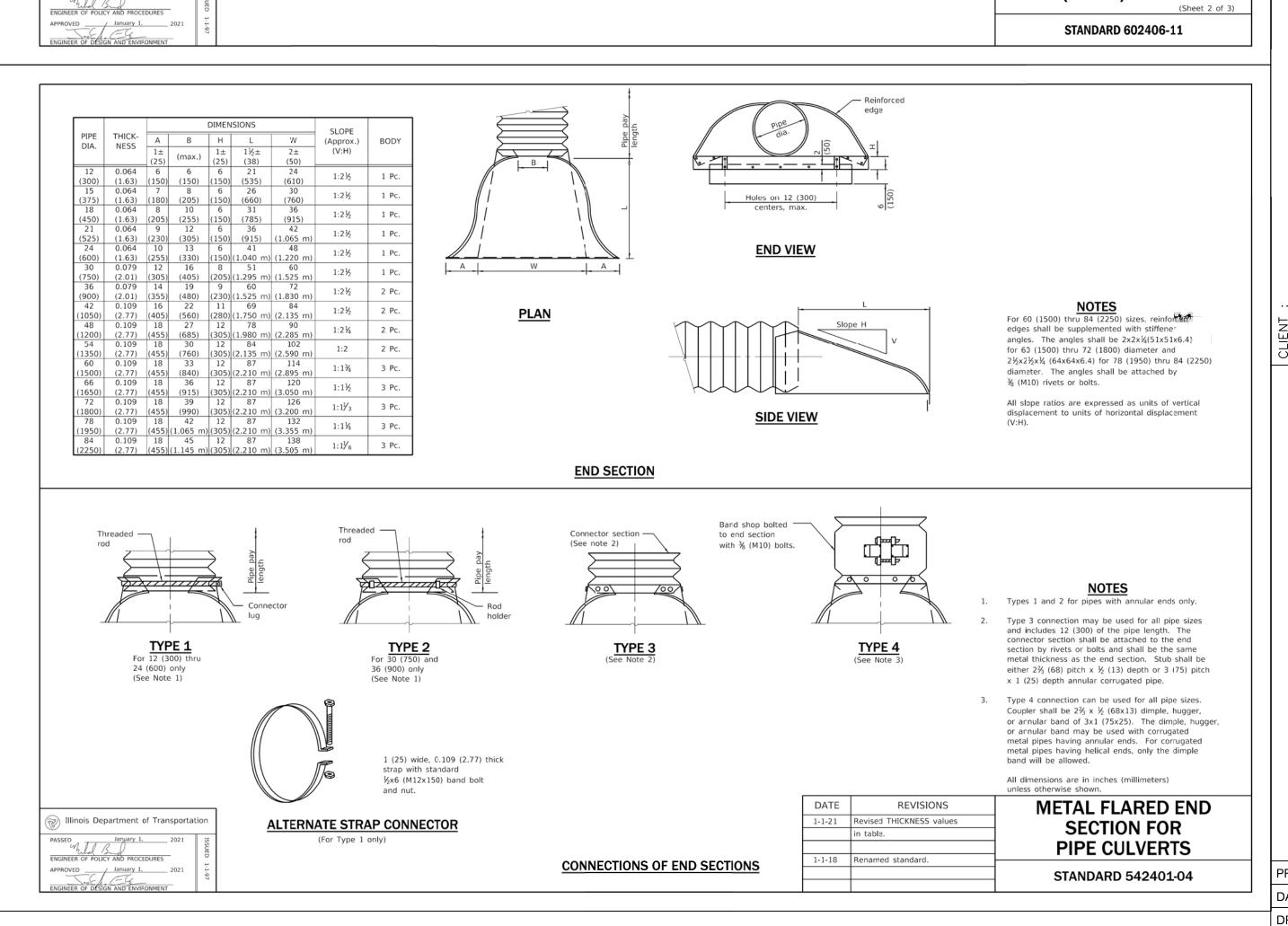
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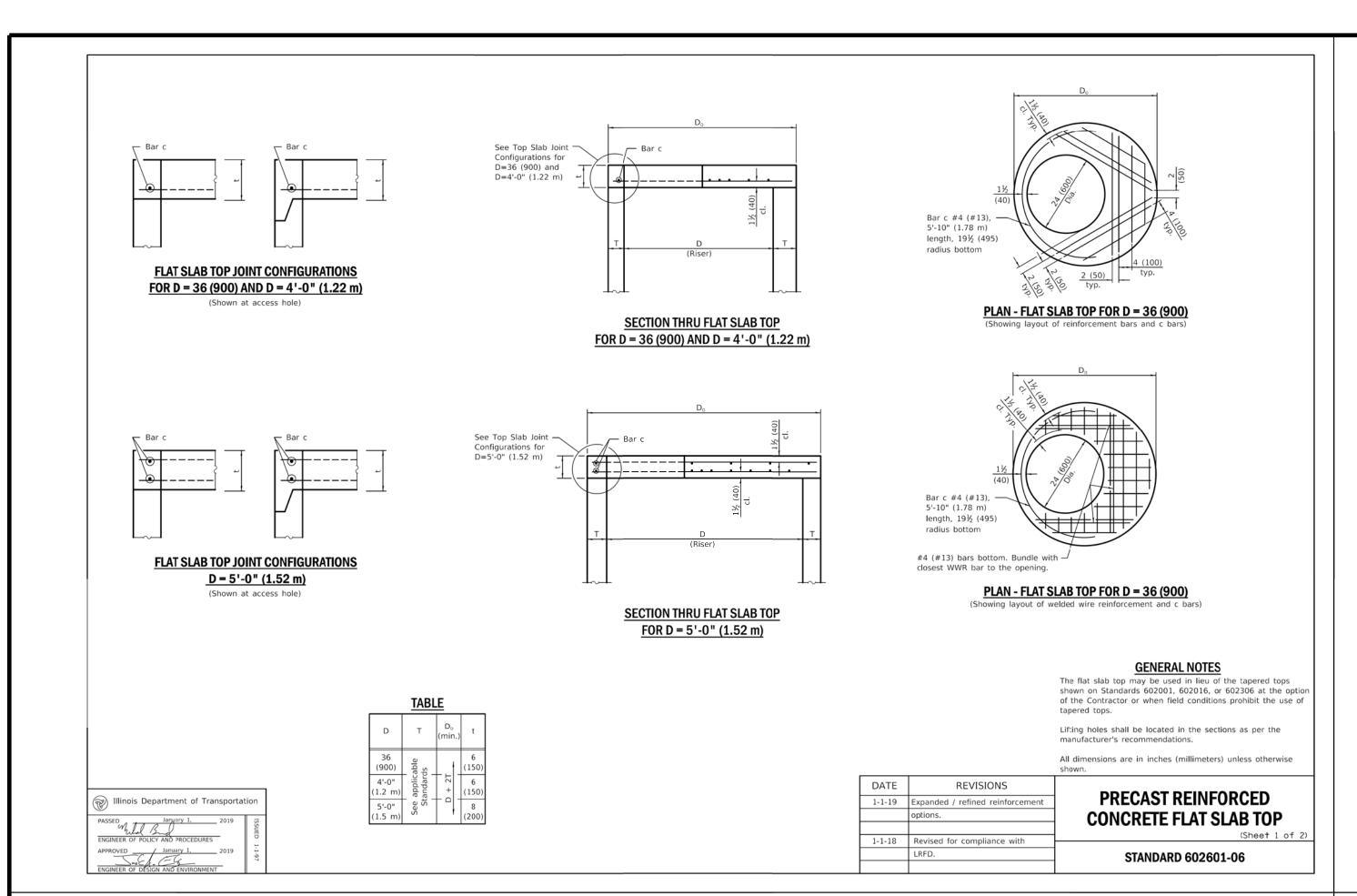


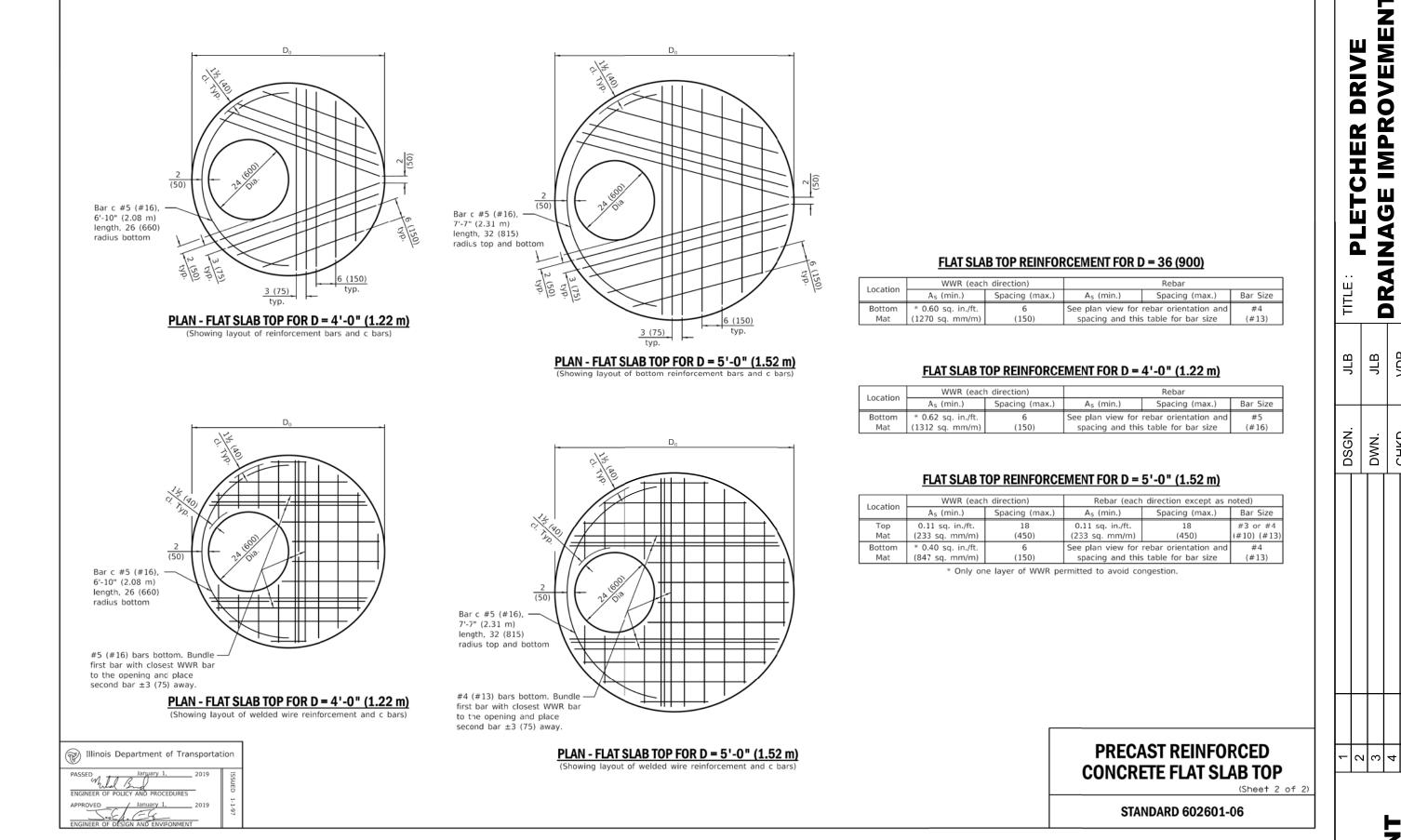


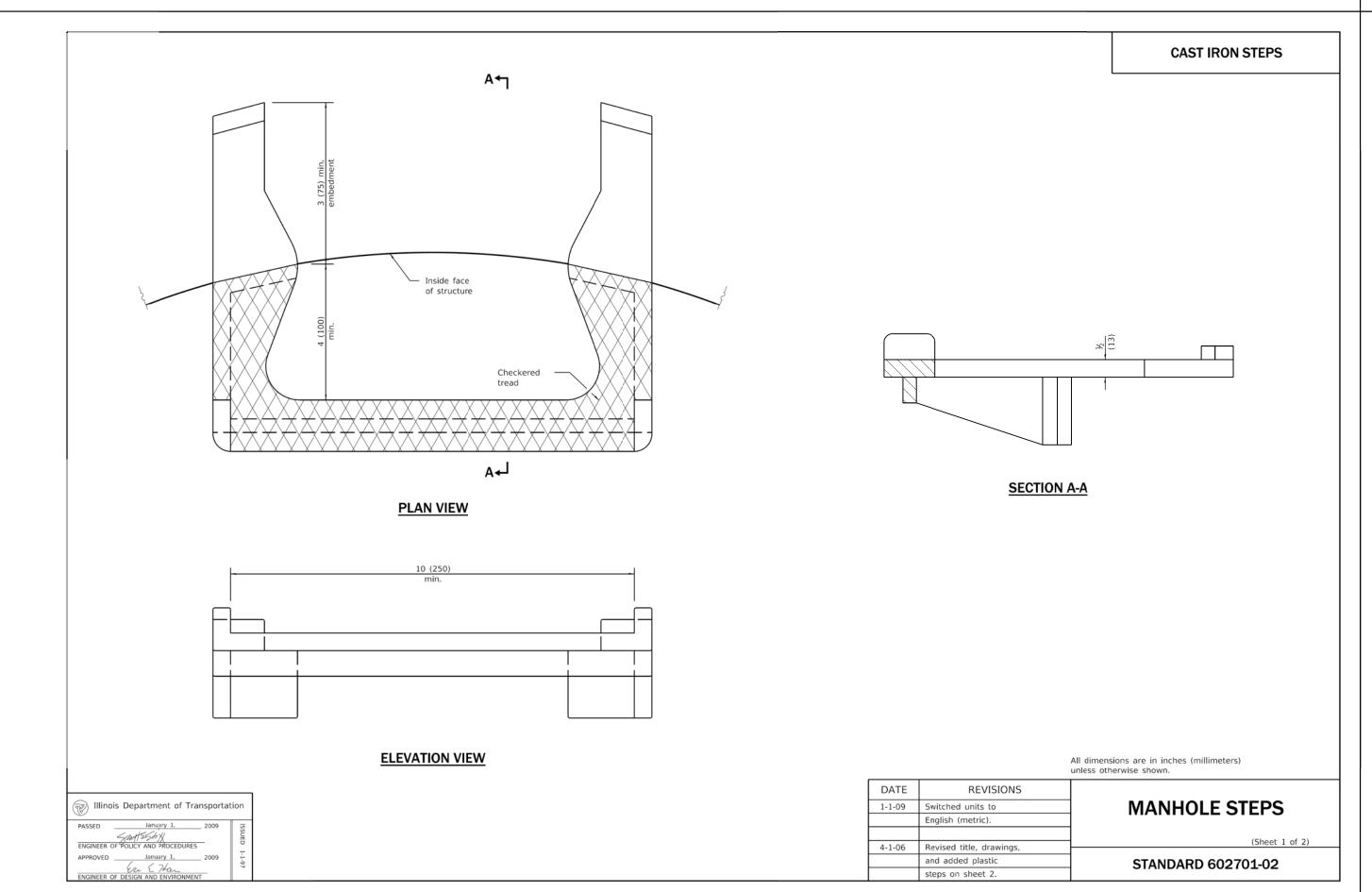
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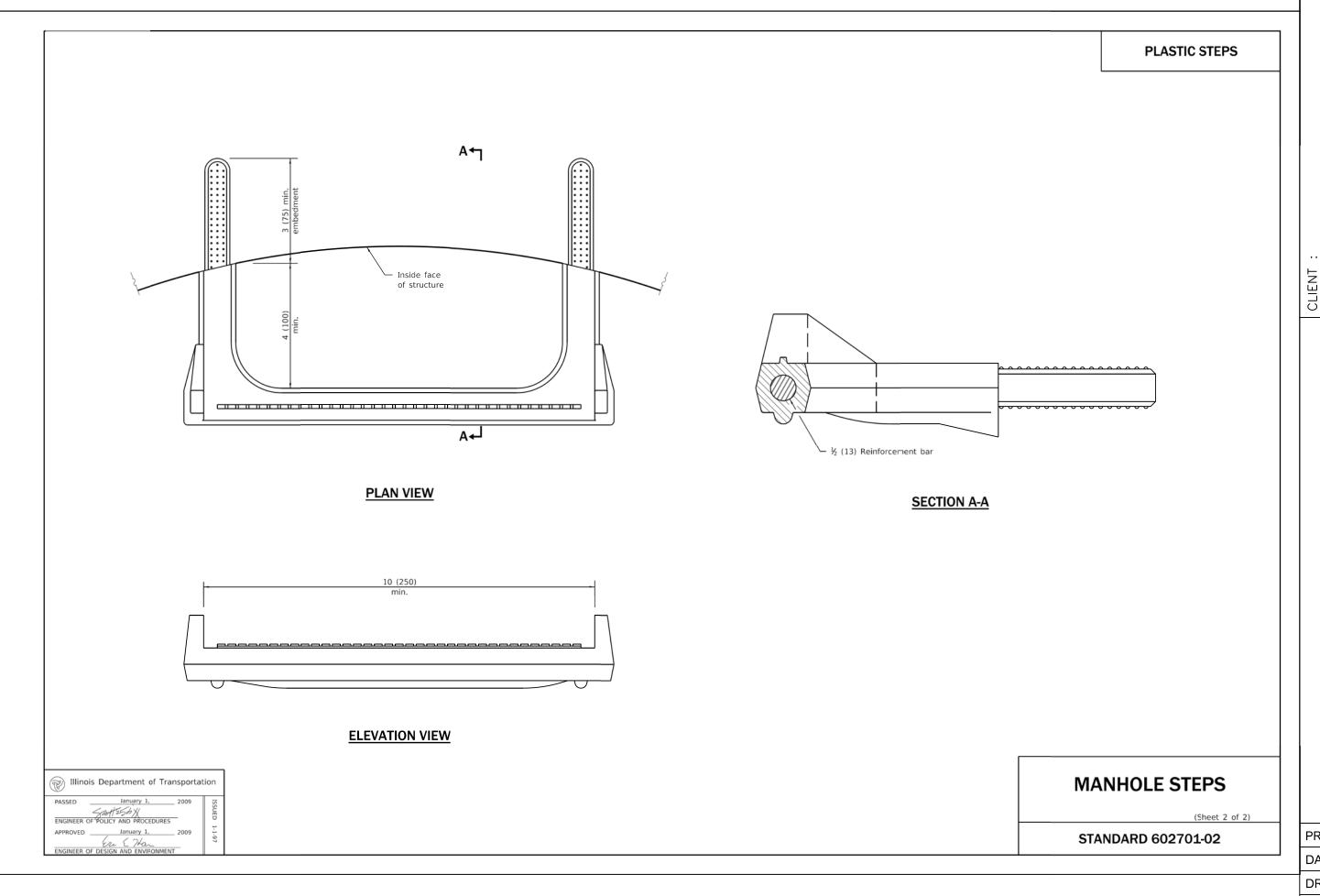
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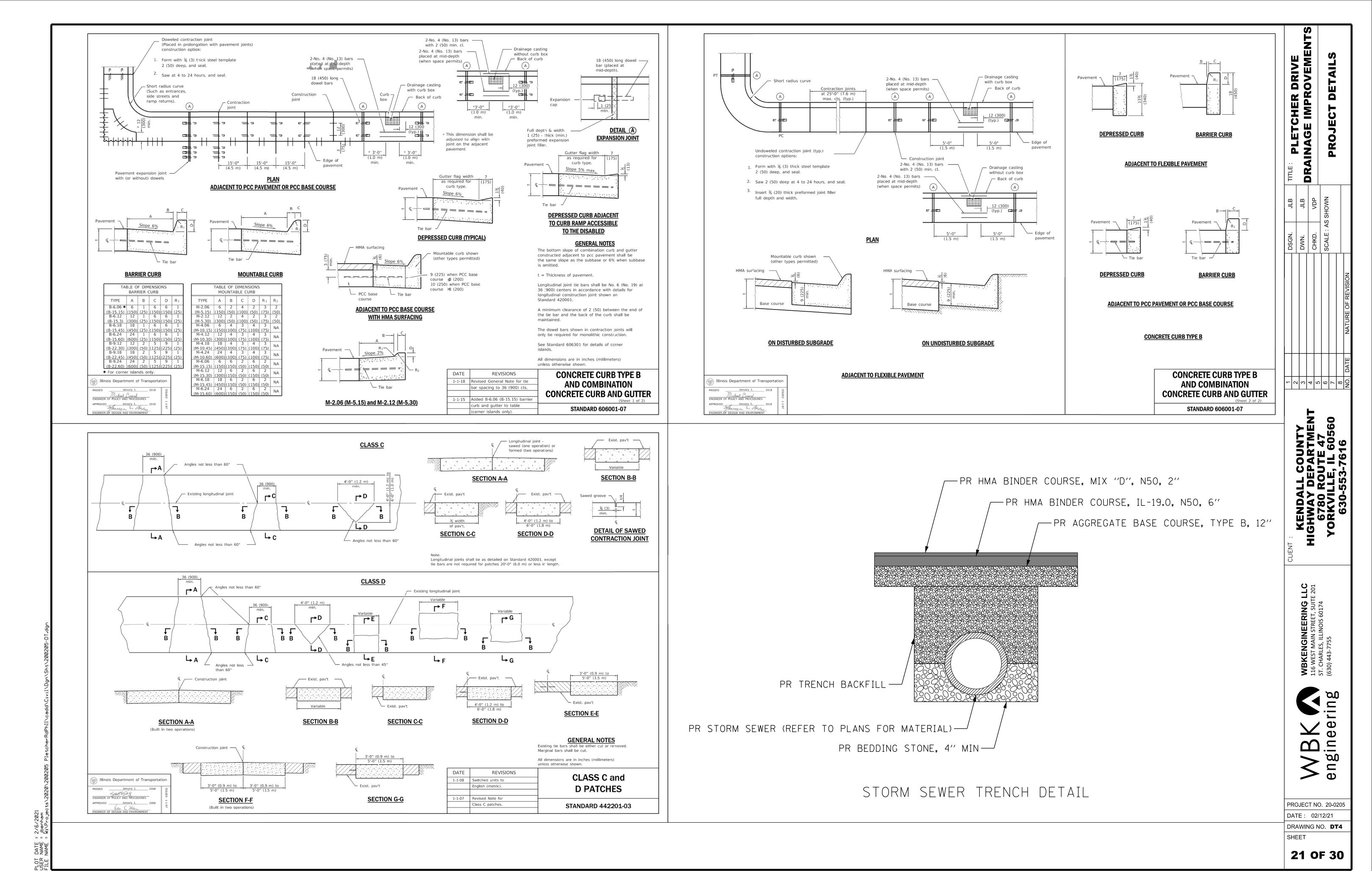


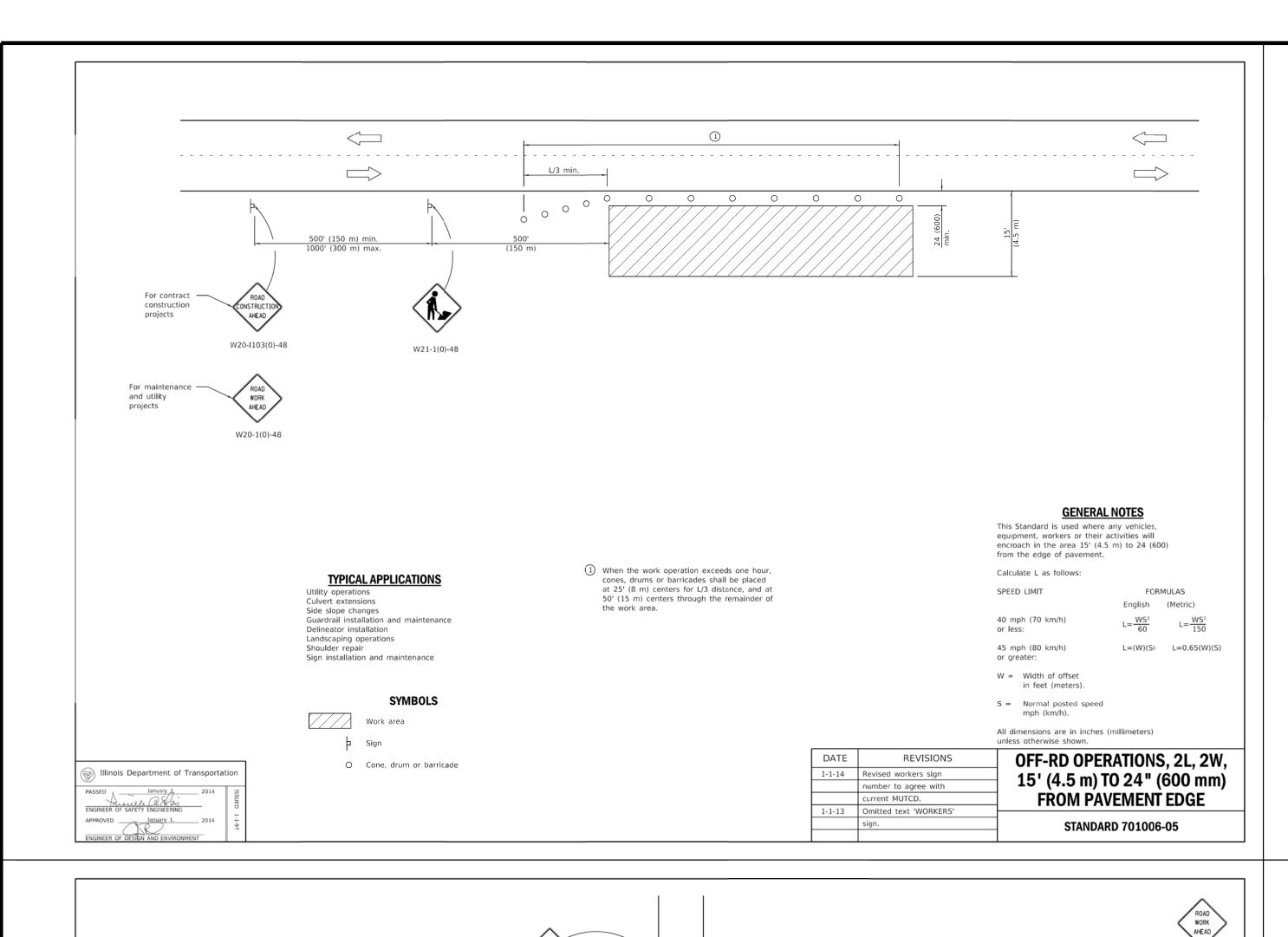


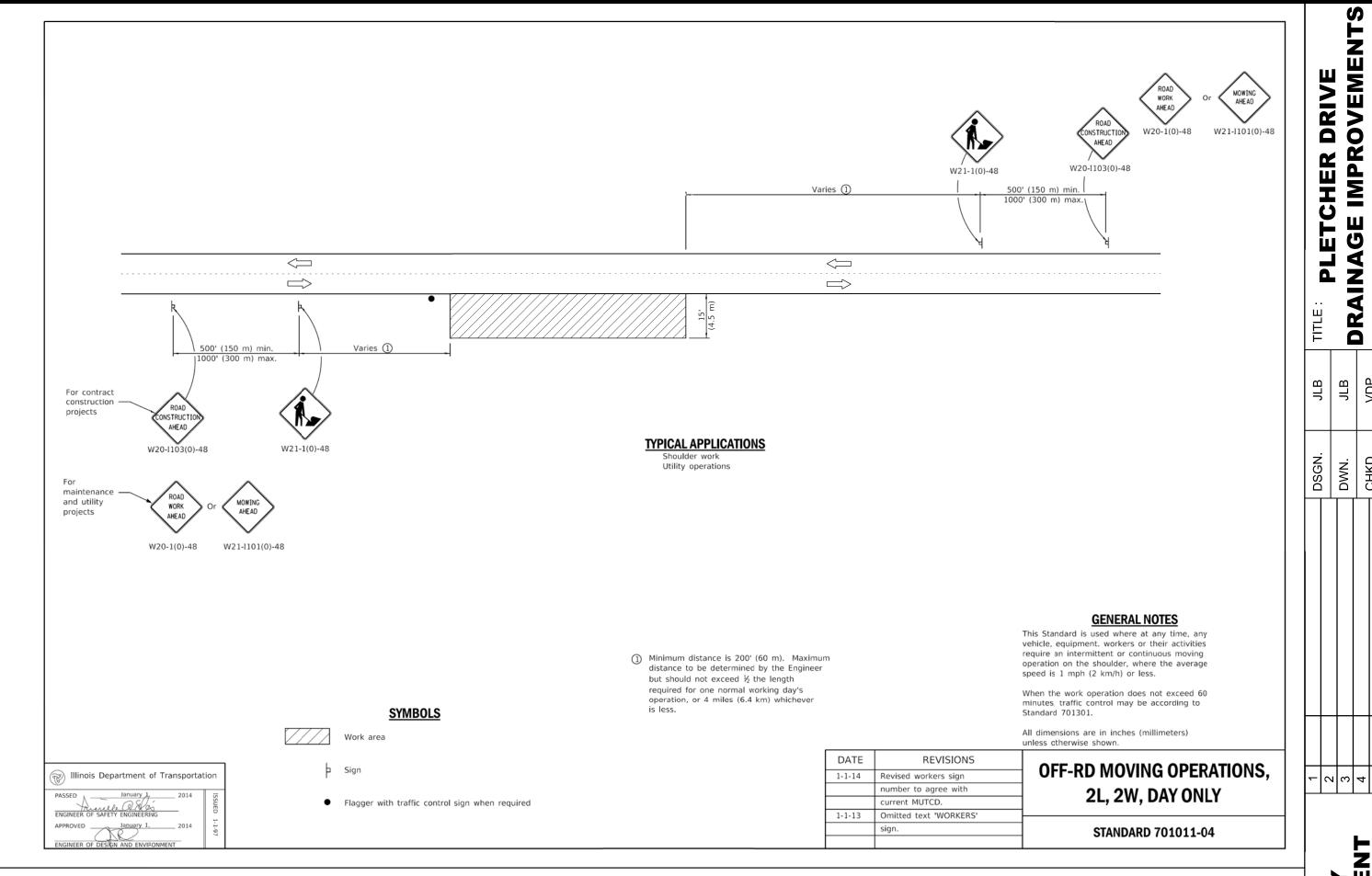


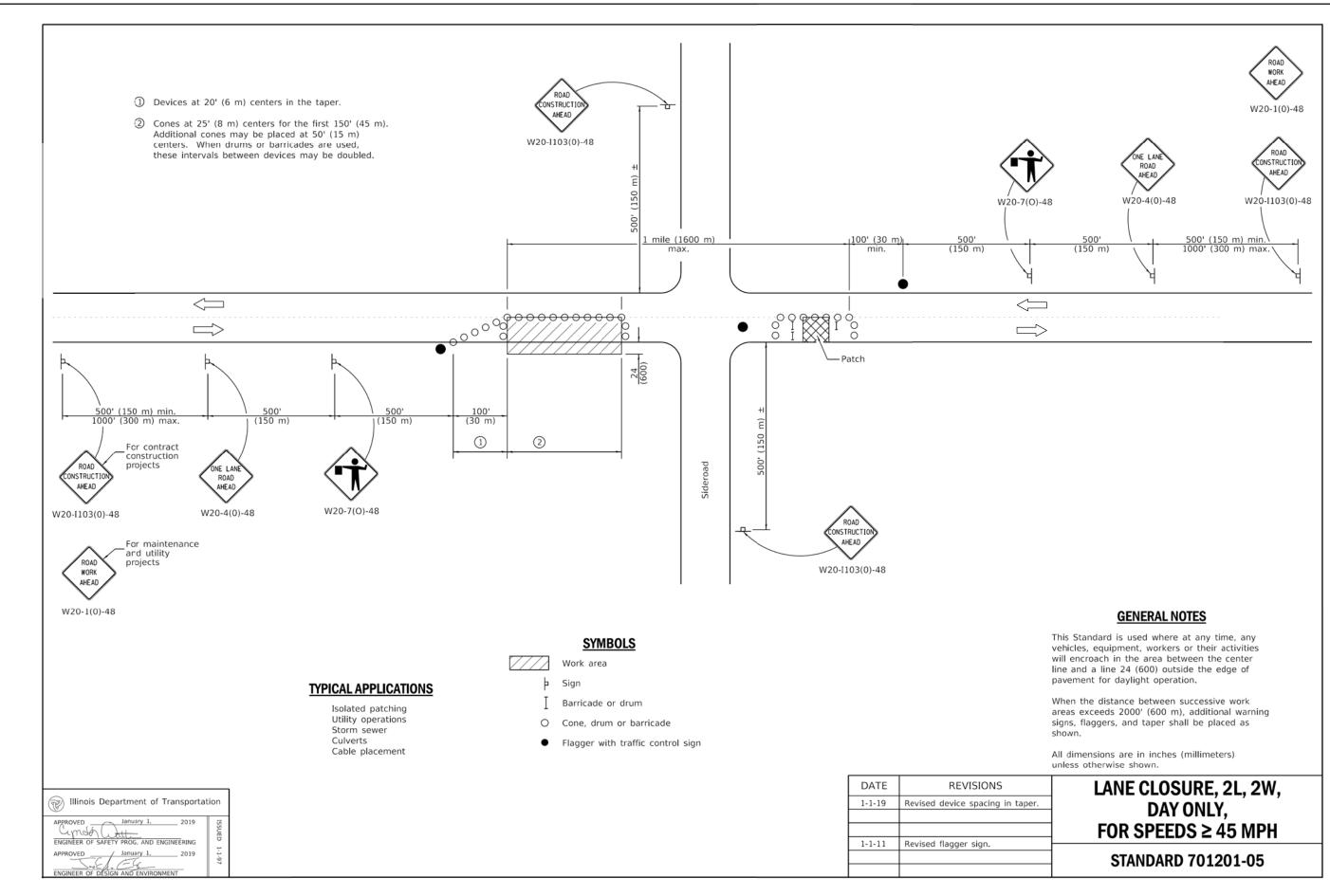


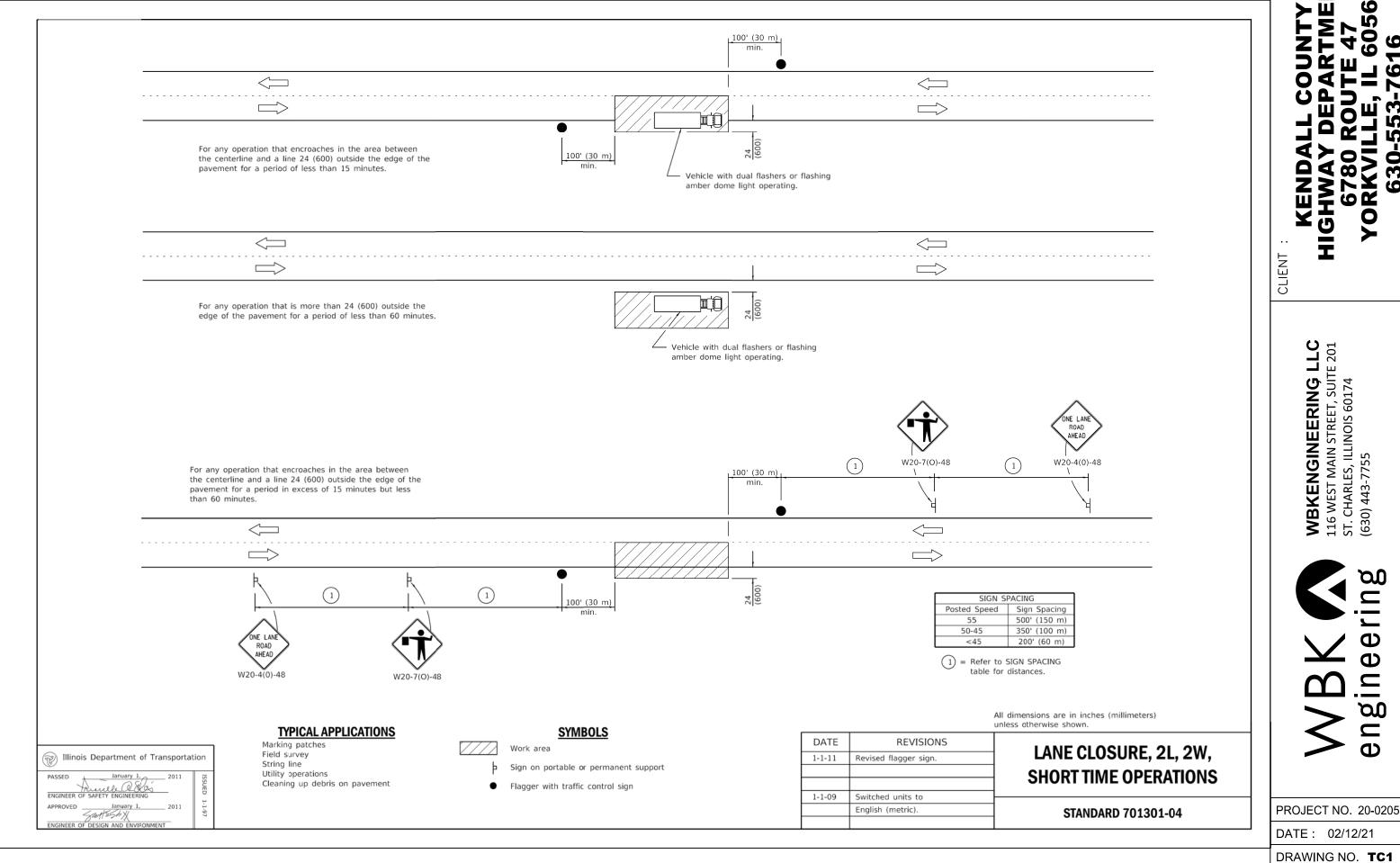
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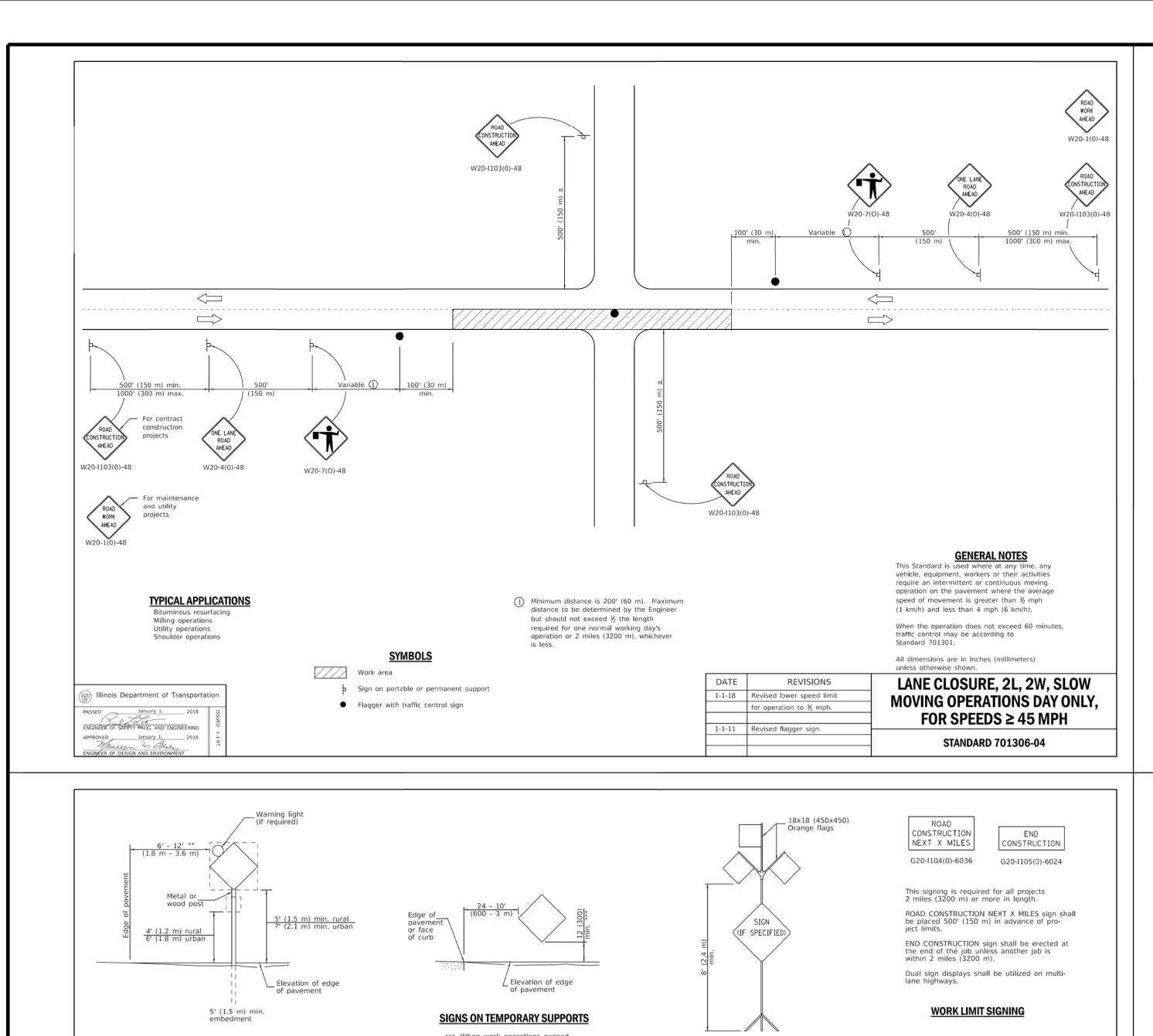


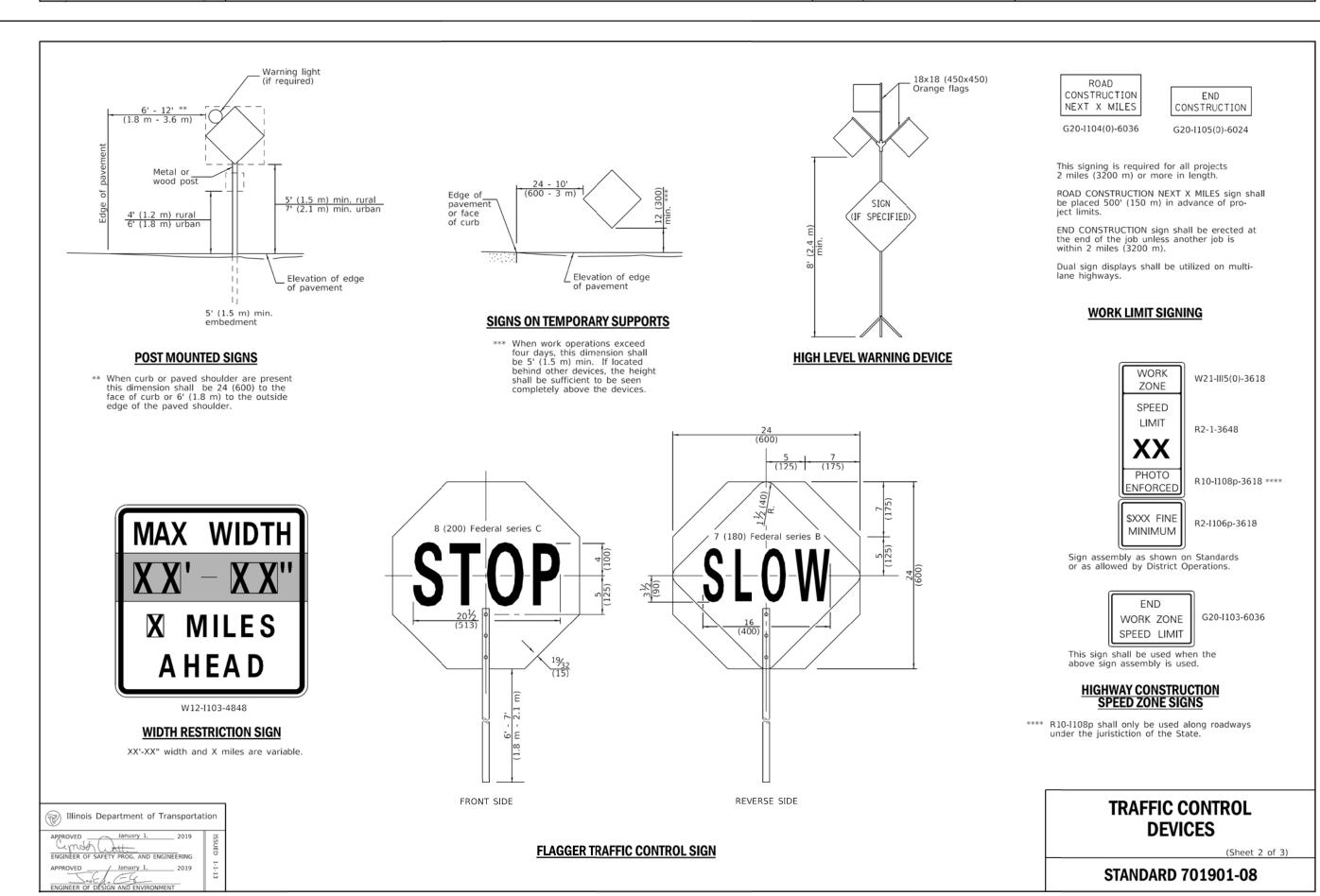


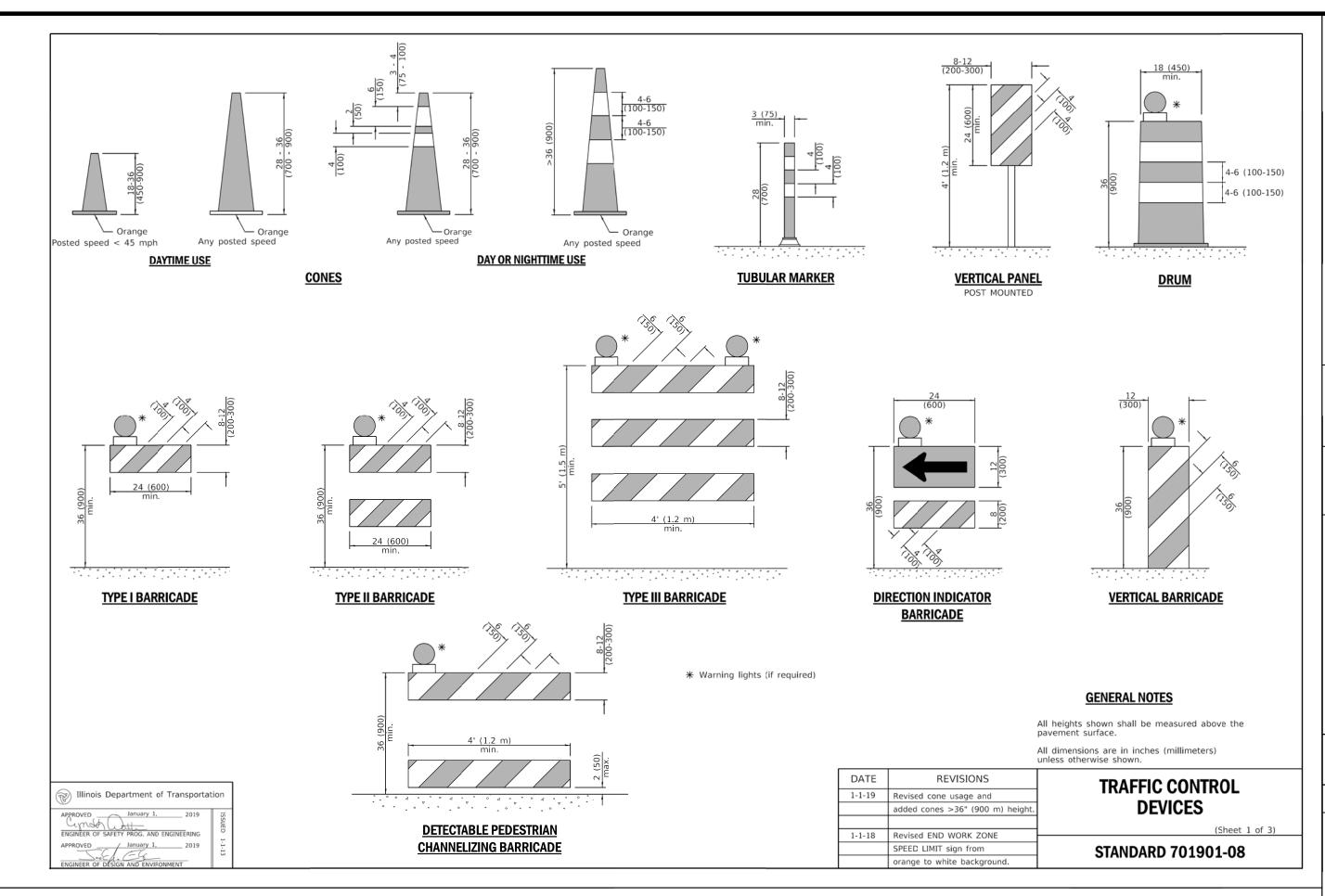


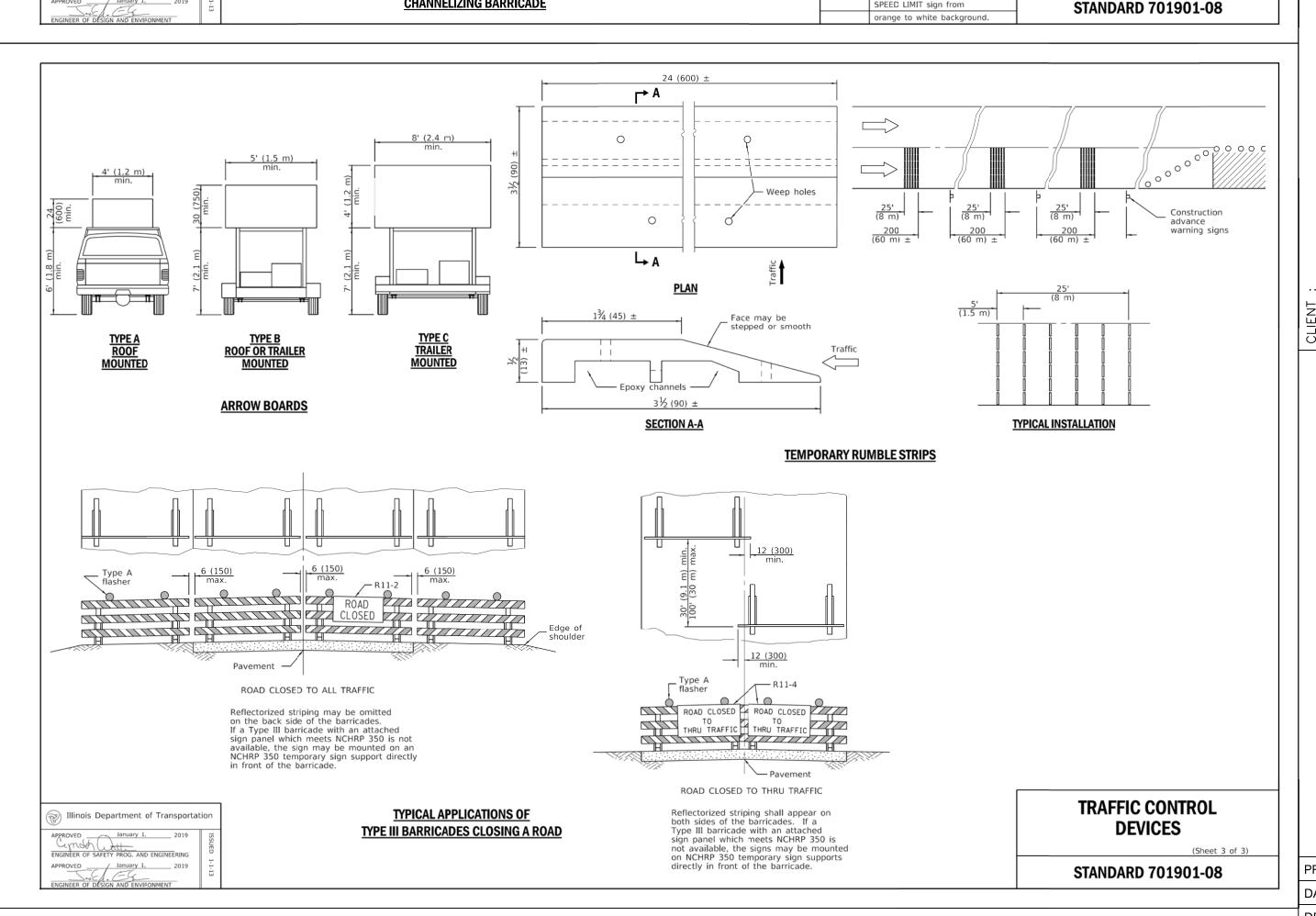


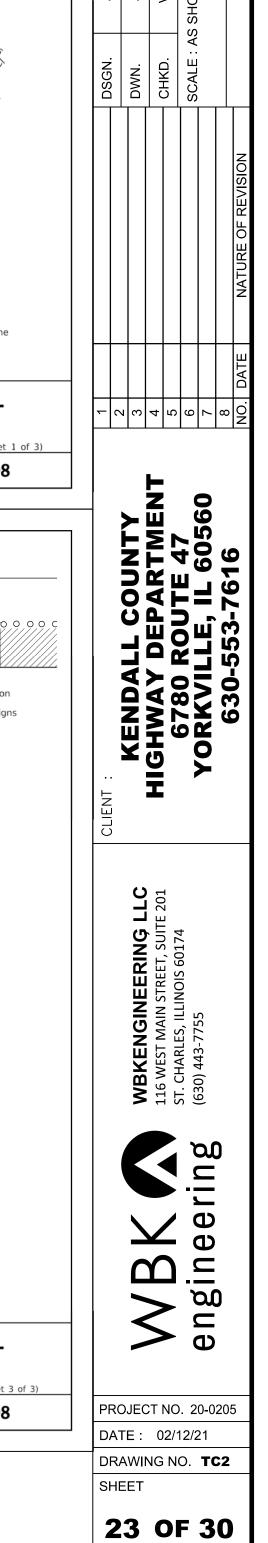
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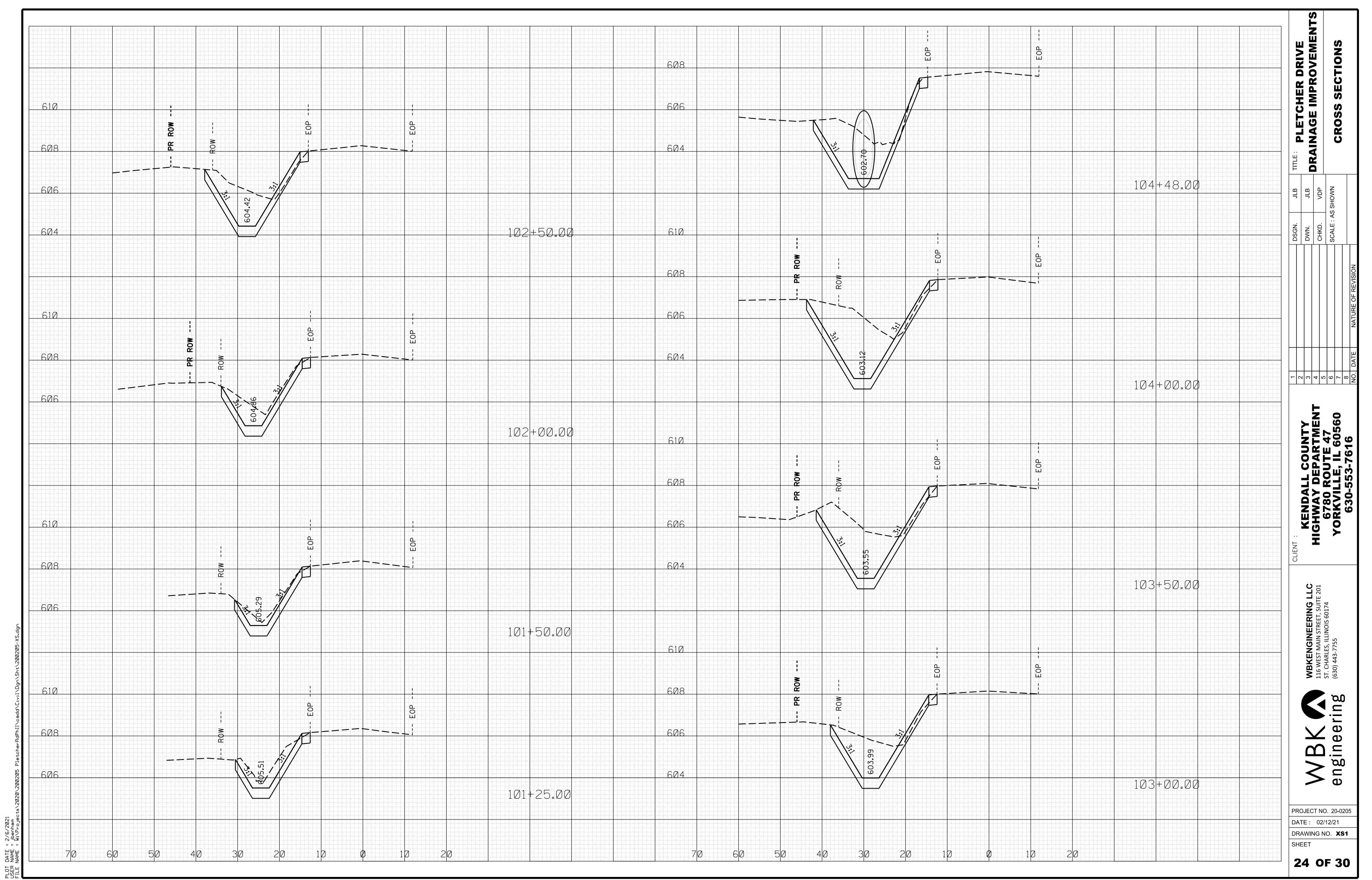


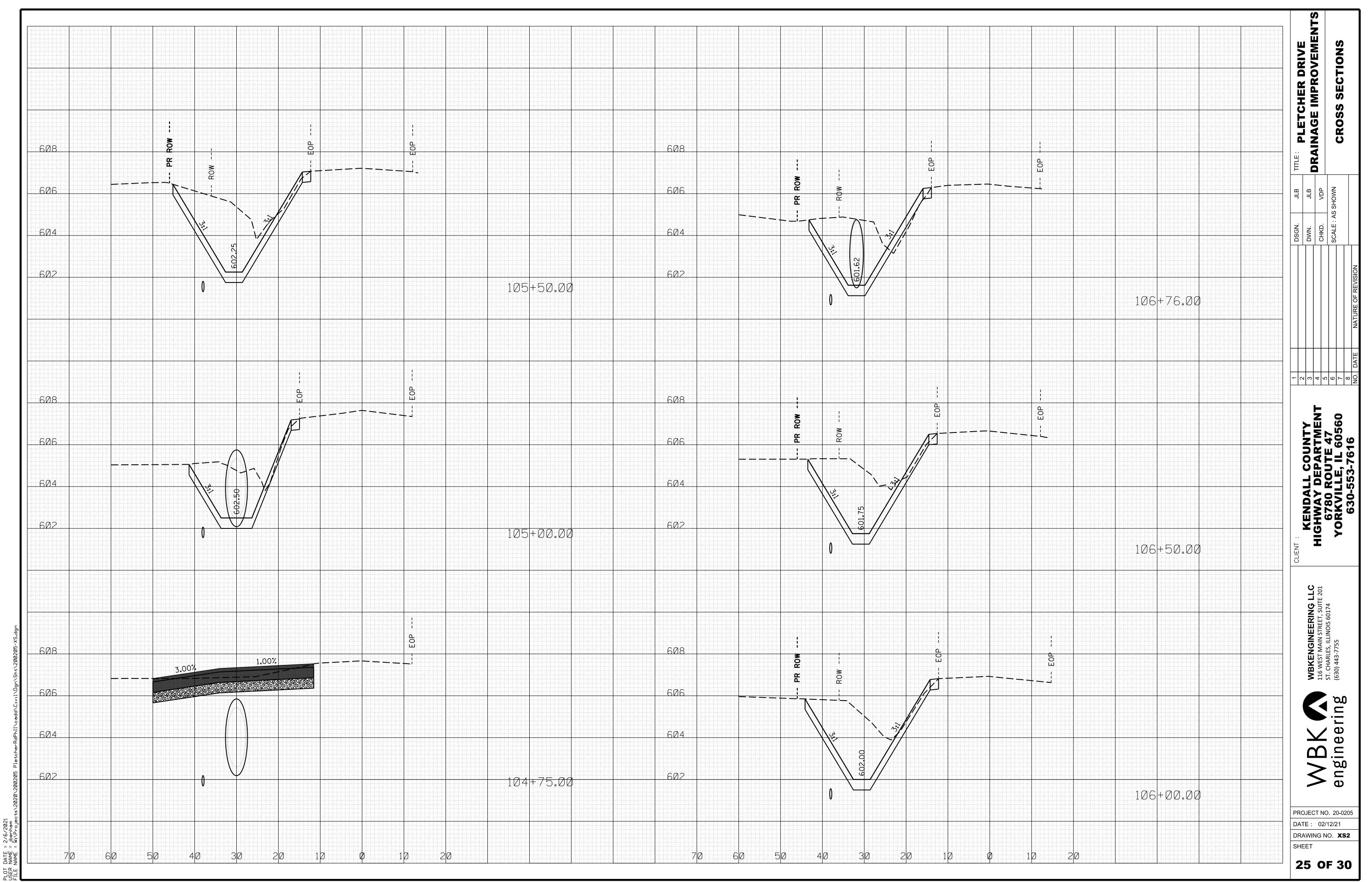


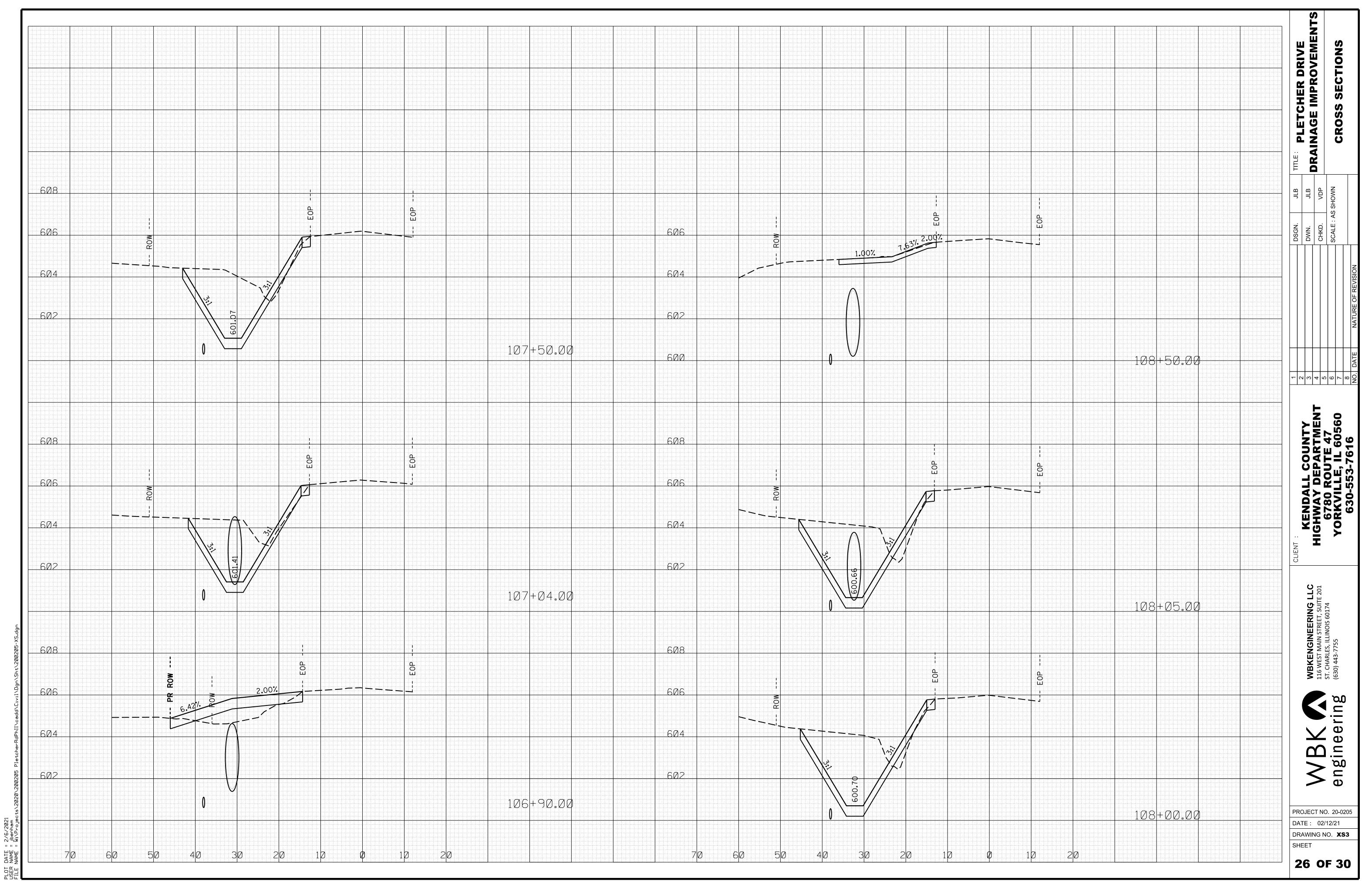


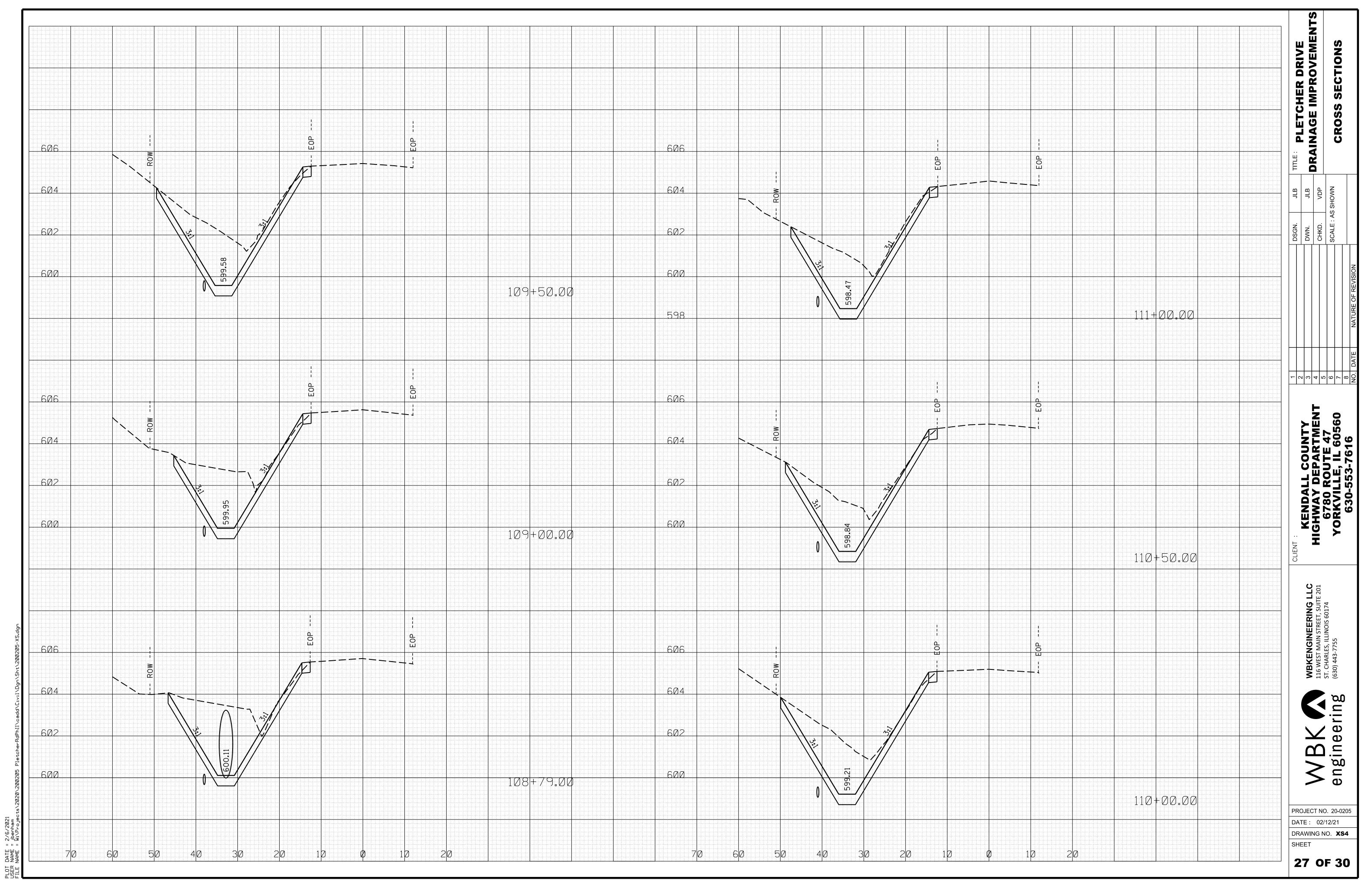
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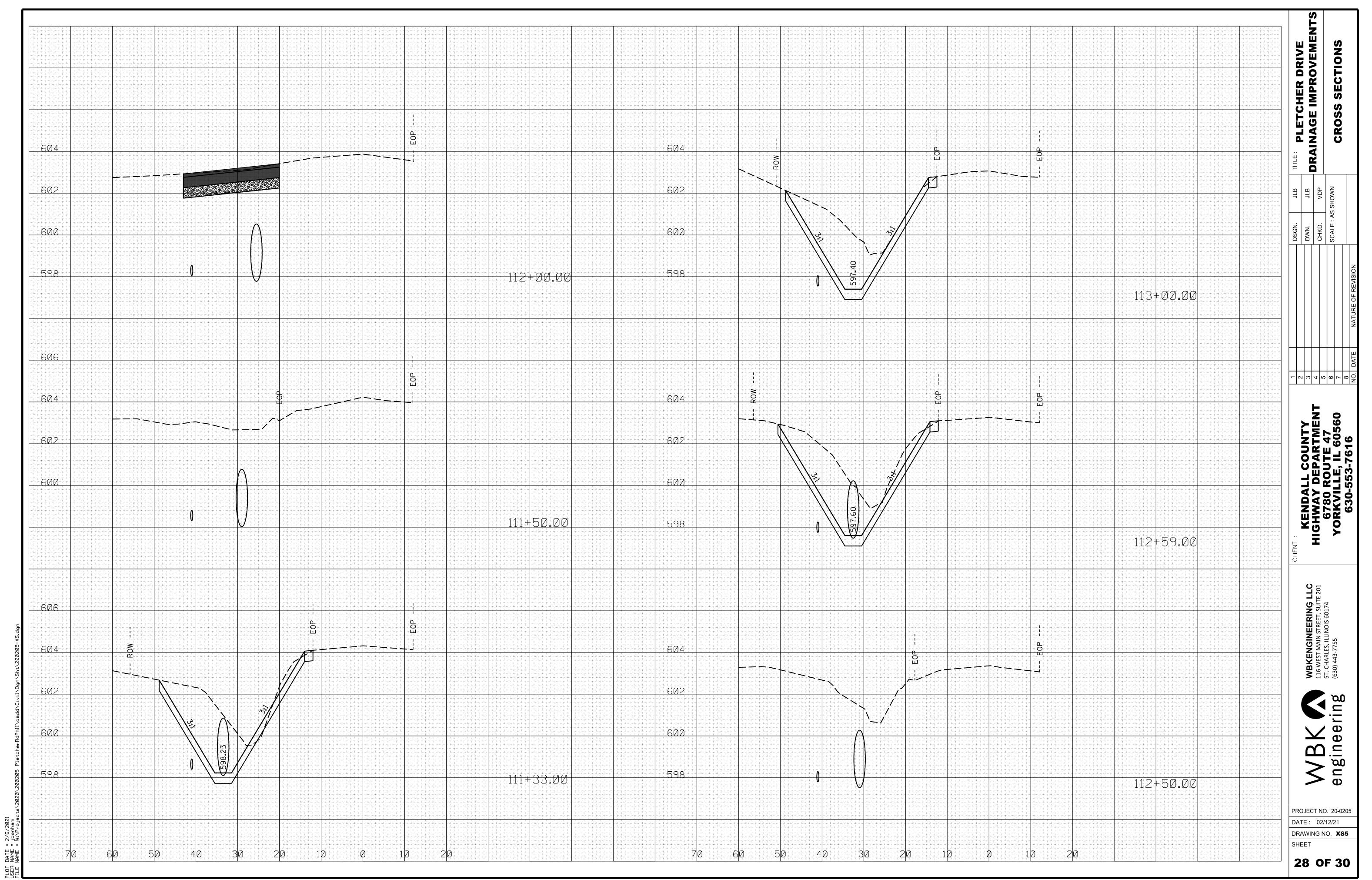
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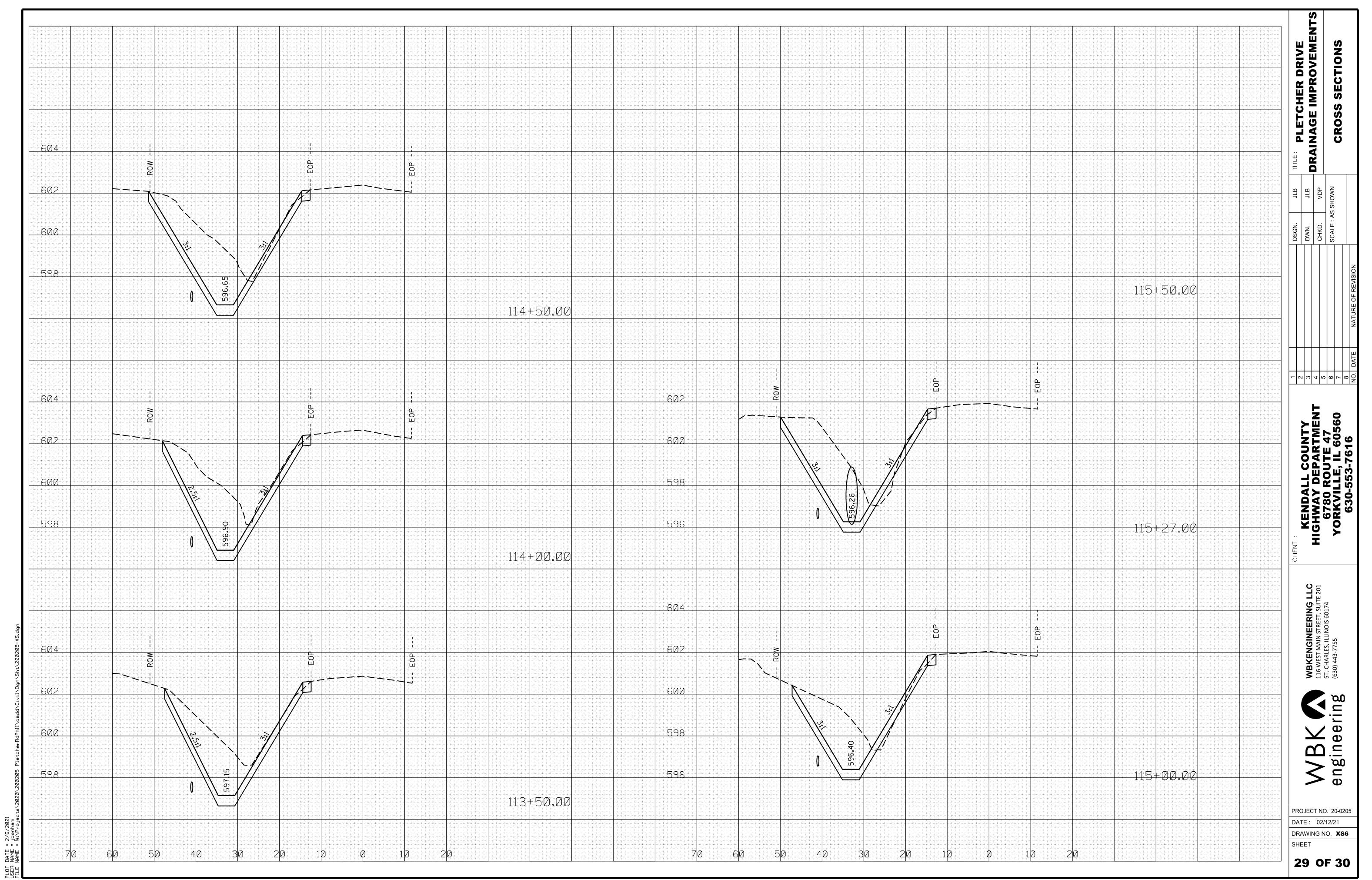












			Earth Exc	avation	Fill		
Station	Earth Excavation (SF)	Fill (SF)	Average End Area	Volume	Average End Area	Volume	
			SF	СҮ	SF	СҮ	
01+25.00	16.06	0.00	+		+		
	25.55		14.35	13.29	0.00	0.00	
01+50.00	12.64	0.00					
03+00 00	19.34	0.00	15.99	29.61	0.00	0.00	
02+00.00	19.34	0.00	23.58	43.67	0.00	0.00	
02+50.00	27.82	0.00	23.30	+3.07	0.00	0.00	
			28.58	52.93	0.00	0.00	
3+00.00	29.34	0.00					
03+50.00	43.60	0.00	36.47	67.54	0.00	0.00	
15+30.00	45.00	0.00	47.68	88.30	0.00	0.00	
04+00.00	51.76	0.00	.,,,,,,		3,55		
			47.13	83.79	0.01	0.02	
04+48.00	42.50	0.02					
05+00.00	42.60	0.00			+		
			49.72	92.07	0.00	0.00	
05+50.00	56.84	0.00					
00.00.00	FF 60	0.00	56.26	104.19	0.00	0.00	
06+00.00	55.68	0.00	54.83	101.54	0.00	0.00	
06+50.00	53.98	0.00	J4.03	101.54	0.00	0.00	
	-		50.60	48.73	0.59	0.57	
06+76.00	47.22	1.18					
			27.73	14.38	1.93	1.00	
6+90.00	8.24	2.68	25.98	13.47	1.35	0.70	
7+04.00	43.72	0.02	23.36	13.4/	1.55	0.70	
7.01.00	19.72	0.02	46.45	79.14	0.28	0.48	
7+50.00	49.18	0.54					
			52.89	97.94	1.06	1.96	
8+00.00	56.60	1.58	F7.62	10.67	2.13	0.39	
8+05.00	58.66	2.68	57.63	10.67	2.15	0.59	
8+79.00	60.32	0.00	F4.02	42.72	0.00	0.00	
9+00.00	49.54	0.00	54.93	42.72	0.00	0.00	
3100.00	+3.54	0.00	51.30	95.00	0.00	0.00	
9+50.00	53.06	0.00					
			52.61	97.43	0.00	0.00	
0+00.00	52.16	0.00	F0.00	04.40	0.00	0.00	
.0+50.00	49.56	0.00	50.86	94.19	0.00	0.00	
.5.50.00	73.30	0.00	50.16	92.89	0.00	0.00	
1+00.00	50.76	0.00					
			54.61	66.75	0.06	0.07	
1+33.00	58.46	0.12					
					+		
2+59.00	65.78	0.00			+		
		· -	61.38	93.21	0.00	0.00	
13+00.00	56.98	0.00					
2.50.00	40.00	0.00	53.02	98.19	0.00	0.00	
3+50.00	49.06	0.00	53.26	98.63	0.00	0.00	
4+00.00	57.46	0.00	33.20	20.03	0.00	0.00	
		<u> </u>	58.75	108.80	0.00	0.00	
4+50.00	60.04	0.00					
F : 00 00	40.00	0.00	51.17	94.76	0.34	0.63	
5+00.00	42.30	0.68	50.42	50.42	1.02	1.02	
15+27.00	58.54	1.36	JU.42	JU.4Z	1.02	1.02	
			Total	1974.20	Total	6.84	

TITLE: PLETCHER DRIVE DRAINAGE IMPROVEMENTS CROSS SECTIONS EARTHWORK TABLE KENDALL COUNTY
HIGHWAY DEPARTMENT
6780 ROUTE 47
YORKVILLE, IL 60560
630-553-7616 WBKENGINEERING LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755

PROJECT NO. 20-0205 DATE: 02/12/21

DRAWING NO. XS7