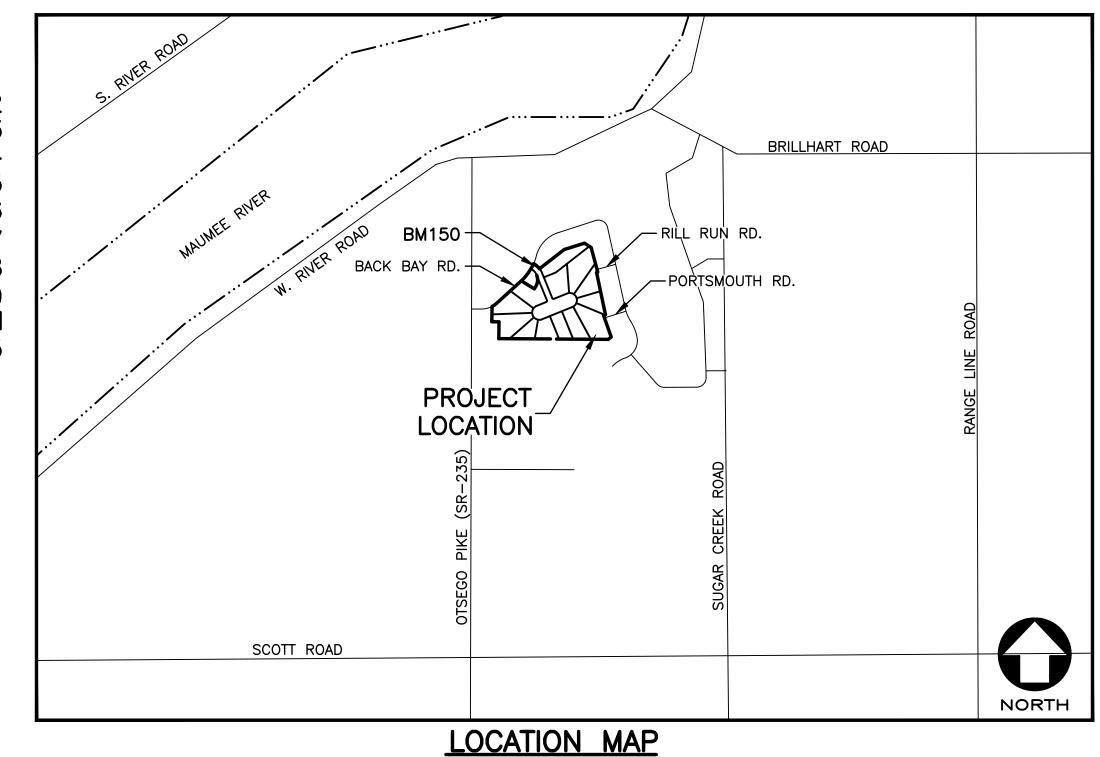
FOR

The Reserve at Williamsburg On The River Plat One

WASHINGTON TOWNSHIP, WOOD COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET GENERAL NOTES AND SPECIFICATIONS GENERAL NOTES, SPECIFICATIONS, & GENERAL SUMMARY INTERSECTION DETAILS AND STREET SIGNING PLAN TYPICAL SECTIONS AND BIORETENTION POND DETAILS BASIN DETAILS EXISTING SITE/TOPO PLAN SITE PLAN SITE GRADING PLAN PLAN AND PROFILES.	2 4 5 6 9
PLAN AND PROFILES	



BENCH MARK DATA

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THE RESERVE AT WILLIAMSBURG ON THE RIVER PLAT ONE IS A PROPOSED DEVELOPMENT THAT INCLUDES INSTALLATION OF ALL INFRASTRUCTURE TO SERVE 13 SINGLE FAMILY LOTS.

OHIO UTILITIES PROTECTION SERVICE

CALL 1-800-362-2764

TWO WORKING DAYS
BEFORE YOU DIG

NON-MEMBERS MUST BE CALLED DIRECTLY

CONVENTIONAL SIGNS

	PROPOSED	<u>EXISTING</u>
SANITARY SEWER	. —————— —	———s——
STORM SEWER	. ——— —	— — —ST— —
WATERLINE	. ——————— —	——————
SANITARY MANHOLE	(§)	s
STORM MANHOLE	•	🗊
CATCH BASIN		CB
YARD BASIN	•	©B
WATER VALVE IN MANHOLE		w
HYDRANT		
CENTERLINE		
TYPE B MONUMENT		🚓

INSPECTION SCHEDULING

FOR INSPECTION CALL 419-354-9060 BETWEEN 7:30 A.M. AND 4:00 P.M. 48 HOURS IN ADVANCE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR.

STANDARD DRAWINGS

<u>ODOT</u>

CB-2-2A,B,C	CATCH BASIN NO.'S. 2-2A,B,C	•
MH-3	MANHOLE NO. 3	
RM-1.1		1/15/21
CB-2-3, 2-4	CATCH BASINS NO.'S 2-3, 2-4	1/21/22

SUPPLEMENTAL SPECIFICATIONS (ODOT)

SS 800	REVISIONS TO	2013 ODOT CMS	1/21/15
SS 811	CONDUIT AND	DRAINAGE STRUCTURES	1/18/13

WOOD COUNTY:	(http://engineer.co.wood.oh.us/index.php/standard-drawings)	
TRENCH DETAILS		8/05/

PLAN. 1" = 5 PROFILE, HORIZONTAL 1" = 5

PROFILE, VERTICAL CROSS—SECTION, HORIZONTAL CROSS—SECTION, VERTICAL 1" = 5' 1" = 20' 1" = 5'

APPROVED BY

JAL M. MUSTERIC DE DE

WOOD COUNTY ENGINEER

OZ JUN ZOZZ

THE RESE WILLIAMSBURG

5/13/22

CHECKED BY:

REVIEWED BY:

3-16-22

10E09360

THE ABOVE SIGNATURE CONSTITUTES ACKNOWLEDGEMENT THOSE ITEMS OUTLINED IN THE CURRENT EDITION OF THE "WOOD COUNTY SUBDIVISION AND SITE IMPROVEMENT MANUAL" OR AS AMENDED BY THE WOOD COUNTY ENGINEER, HAVE BEEN UTILIZED. TECHNICAL CORRECTNESS AND INTERPRETATION OF THOSE ITEMS CONTAINED WITHIN THE MANUAL REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. THE ABOVE SIGNATURE IS VALID FOR 18 MONTHS FROM THE DATE OF SIGNING.

DEVELOPED BY:

PRESERVE PROPERTIES, LLC 3242 EXECUTIVE PARKWAY, SUITE 203 TOLEDO, OHIO 43606 866-444-4955

WADE SMITH

OWNER (MEMBER

OWNER/MEMBER

PAVEMENT AND DRAINAGE THE R

THE RESERVE AT WILLIAMSBURG ON THE RIVER PLAT ONE

DATED JANUARY 1, 2019

2.REGULATIONS

ALL WORK MUST COMPLY WITH APPLICABLE FEDERAL. STATE AND LOCAL REGULATIONS IN ALL RESPECTS, INCLUDING COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.

3.LICENSES AND PERMITS

ALL LICENSES AND PERMITS REQUIRED BY LOCAL, STATE OR FEDERAL AGENCIES SHALL BE OBTAINED BY THE CONTRACTOR.

4.BEGINNING CONSTRUCTION

THE WOOD COUNTY ENGINEER SHALL BE NOTIFIED SEVEN (7) DAYS PRIOR TO THE BEGINNING OF ACTUAL CONSTRUCTION.

5.STAKING RESPONSIBILITY

THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PRESERVATION OF INITIAL STAKEOUT WORK ORDERED AND OWNER IS NOT RESPONSIBLE FOR DISTURBED STAKING AND RESTAKING OF INITIAL STAKEOUT WORK ORDERED. OWNER WILL BE GIVEN A SEVEN (7) DAY NOTICE FOR ALL STAKEOUT WORK ORDERED PER ODOT ITEM 623.

6.EXISTING BENCH MARKS, MONUMENTS AND CONTROL POINTS

EXISTING SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNER POINTS AND CONTROL POINTS DAMAGED OR DISTURBED BY CONSTRUCTION WILL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR. SHOULD THE CONTRACTOR FAIL TO PROPERLY REPLACE THESE POINTS, THE WOOD COUNTY ENGINEER SHALL REPLACE THESE POINTS AT THE CONTRACTOR'S EXPENSE, AFTER THREE (3) WEEKS NOTICE. THE CONTRACTOR IS TO NOTIFY THE WOOD COUNTY ENGINEER OF ANY ANTICIPATED CONFLICTS.

7.EXISTING STORM DRAINAGE

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN EXISTING SEWER FLOWS AT ALL TIMES AND SHALL PROMPTLY REPLACE IN KIND ANY STORM SEWER DISTURBED BY CONSTRUCTION TO THE SATISFACTION OF THE WOOD COUNTY ENGINEER. THE COST OF MAKING INSPECTIONS AND ANY REPAIRING OR CORRECTION OF SEWERS AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. WHERE CONSTRUCTION CROSSES AN EXISTING DITCH OR FOLLOWS THE COURSE OF SUCH DITCH, THE CONTRACTOR MAY DIVERT THE FLOW OF DRAINAGE WATER TEMPORARILY AT HIS OWN COST AND EXPENSE WITH THE APPROVAL OF THE WOOD COUNTY ENGINEER. DITCH FLOW SHALL BE MAINTAINED AT ALL TIMES.

8.INSPECTION

ALL WORK PERFORMED ON THIS PROJECT IS SUBJECT TO THE INSPECTION AND APPROVAL OF THE WOOD COUNTY ENGINEER. COST OF INSPECTION BY THE WOOD COUNTY ENGINEER SHALL BE PAID FOR BY THE DEVELOPER.

9.AS-BUILT DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A COMPLETE SET OF CONSTRUCTION DRAWINGS CLEARLY MARKED TO SHOW ALL DEVIATIONS FROM THE APPROVED PLANS. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL PROVIDE THE COUNTY ENGINEER WITH A SET OF MYLAR AS-BUILT DRAWINGS.

10. SUBDIVISION IMPROVEMENT MAINTENANCE BOND

PRIOR TO THE DATE OF FINAL ACCEPTANCE OF THE STORM DRAINAGE, ROADWAY AND PAVEMENT IMPROVEMENTS BY WOOD COUNTY AND THE PLACEMENT OF SAID IMPROVEMENTS ON THE PUBLIC ROAD SYSTEM, THE CONTRACTOR SHALL FURNISH A SUBDIVISION IMPROVEMENT MAINTENANCE BOND TO WOOD COUNTY. THE BOND SHALL BE FOR A TWO (2) YEAR PERIOD IN THE AMOUNT OF TWENTY-FIVE (25) PERCENT OF THE COST OF IMPROVEMENT. THE COST OF THE MAINTENANCE BOND SHALL BE INCLUDED IN THE CONTRACTOR'S BID UNDER ITEM SPECIAL, SUBDIVISION IMPROVEMENT MAINTENANCE BOND.

11. MAINTAINING PUBLIC SAFETY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL LIGHTS, SIGNS AND BARRICADES NECESSARY TO MAINTAIN PUBLIC SAFETY PER ODOT ITEM 614.

12. MAINTENANCE OF TRAFFIC

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON DEDICATED ROADS. IF CONSTRUCTION ALONG DEDICATED ROADS INTERFERES WITH TRAFFIC, IN THE OPINION OF THE WOOD COUNTY ENGINEER, THEN TWO (2) FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR DURING ONE LANE OPERATIONS AT THE INTERSECTION, A THIRD FLAGGER WILL BE NEEDED TO DIRECT INGRESS/EGRESS TRAFFIC FOR HIGH MEADOW LANE AND VILLAGE DRIVE. ALL BARRICADES, SIGNS, FLAGMEN AND OTHER TRAFFIC CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, ITEM 614. MAINTAINING TRAFFIC AND THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

13. ROAD NAME SIGNS AND STOP SIGNS

ROAD NAME SIGNS AND STOP SIGNS WILL BE PLACED BY THE WOOD COUNTY ENGINEER. THE COST SHALL BE PAID BY THE DEVELOPER.

14. UNDERGROUND UTILITIES AND UTILITY ADJUSTMENTS

THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE. THE EXACT LOCATION SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY EACH RESPECTIVE UTILITY COMPANY AND THE OHIO UTILITY PROTECTION SERVICE (800-362-2764), AT LEAST SEVEN (7) DAYS PRIOR TO THE TIME OF CONSTRUCTION. ANY AND ALL ADJUSTMENTS OR EXTENSIONS REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THE PLANS.

15. UTILITY OWNERSHIP

THE FOLLOWING IS A LIST OF THE OWNERS OF UTILITIES KNOWN TO BE WITHIN THE LIMITS OF CONSTRUCTION:

SPECTRUM (PHONE AND CABLE) 2010 JEFFERSON AVE. DEFIANCE, OH 43512 419-610-7698

SUBURBAN NATURAL GAS 211 FRONT ST. CYGNET, OH 43413 419-655-2345

VILLAGE OF GRAND RAPIDS (WATER) 17460 SYCAMORE RD. GRAND RAPIDS, OHIO 43522 419-832-5305

NORTHWESTERN WATER & SEWER DISTRICT (SANITARY) 12560 MIDDLETON PIKE BOWLING GREEN, OH 43402 419-354-9090

TOLEDO EDISON 900 LEMOYNE ROAD NORTHWOOD, OH 43619 419-249-5967

WOOD COUNTY ENGINEER ONE COURTHOUSE SQUARE BOWLING GREEN, OH 43402 419-354-9060

OHIO UTILITIES PROTECTION SERVICE (OUPS) 1-800-362-2764

16. EXISTING DRAINAGE TILE

ALL EXISTING DRAINAGE TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO AN APPROPRIATE DRAINAGE OUTLET APPROVED BY THE COUNTY ENGINEER. COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT CONDUIT ITEM.

17. SHALLOW PIPE UNDERDRAINS ALL PIPE UNDERDRAINS SHALL BE CONNECTED TO AN APPROPRIATE DRAINAGE OUTLET OR AS DIRECTED BY THE COUNTY ENGINEER.

18. EMBANKMENT CONSTRUCTION

WHERE NECESSARY TO CONSTRUCT PAVEMENT SUBGRADE IN FILL, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL BENEATH THE PROPOSED PAVEMENT AND INCLUDE THE COST OF REMOVAL IN THE LUMP SUM FOR ITEM 201, CLEARING AND GRUBBING.

19. PAVEMENT CONSTRUCTION

NO PAVEMENT SHALL BE PLACED UNTIL ALL WATER SERVICES, VALVE BOXES AND ELECTRICAL CONDUIT HAVE BEEN INSTALLED.

20. TRENCH MAINTENANCE

AT ALL TIMES DURING THE PROGRESS OF THE WORK, AND UNTIL THE RELEASE FROM HIS GUARANTEE BY THE COUNTY, THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED TRENCHES. ANY SETTLEMENT THAT OCCURS DURING SUCH TIME SHALL BE FILLED IMMEDIATELY.

21.RIGHT-OF-WAY RESTORATION

ALL EXISTING FEATURES IN EXISTING COUNTY OR TOWNSHIP RIGHTS-OF-WAY THAT ARE DISTURBED DUE TO CONSTRUCTION, SUCH AS: MAILBOXES, TREES, SHRUBS, BUSHES, GUARDRAILS, DRIVEWAYS, ROADWAY PAVEMENT, SWALES, SEWERS, CATCH BASINS, BERMS, SEEDED AREAS, ETC. SHALL BE REPLACED TO THEIR ORIGINAL CONDITIONS IN ACCORDANCE WITH CURRENT ODOT SPECIFICATION ITEM 107.10 AND TO THE SATISFACTION OF THE WOOD COUNTY ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT ITEM.

22. SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE AS PER ODOT ITEM 659, USING THE FOLLOWING SEED MIXTURE: 50% CREEPING RED FESCUE, 25% DOMESTIC RYEGRASS, AND 25% KENTUCKY BLUEGRASS. ALL REAR LOT SWALES AND/OR DRAINAGE SWALES SHALL BE RESTORED AFTER ALL UTILITIES HAVE BEEN CONSTRUCTED. THESE AREAS SHALL BE SEEDED AND MULCHED AS PER ABOVE SEEDING MIXTURE. SEEDING AND MULCHING SHALL NOT BE PLACED WITHOUT APPROVAL OF THE WOOD COUNTY ENGINEER.

23.ESTIMATED QUANTITIES

THE ESTIMATED PLAN QUANTITIES ARE FOR THE PURPOSE OF COMPETITIVE BIDDING AND NOT NECESSARILY THE FINAL PAY QUANTITIES. FINAL FIELD MEASUREMENTS AND CALCULATIONS SHALL DETERMINE THE FINAL PAY QUANTITES. DURING THE BIDDING PERIOD THE CONTRACTOR SHALL COMMUNICATE TO THE PROJECT ENGINEER ANY DIFFERENCES IN HIS BID QUANTITIES AND THOSE LISTED ON THE PLANS.

24.HAUL ROUTES

THE CONTRACTOR SHALL MAINTAIN ALL HAUL ROUTES IN A CONDITION ACCEPTABLE TO THE COUNTY ENGINEER, FOR THE DURATION OF THE PROJECT. THIS MAINTENANCE INCLUDES THE REMOVAL OF MUD, STONE AND OTHER FOREIGN MATERIALS.

25.ROOF DRAINS

ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

GRADING & PAVING NOTES

1. GENERAL SPECIFICATIONS

THE CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE ALL GRUBBING. CLEARING. EXCAVATING. STOCKPILING. EMBANKMENT, GRADING, COMPACTING AND PAVING IN ACCORDANCE WITH THE PLANS AND THE INTENT OF THE CONTRACT DOCUMENTS. IN GENERAL, ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE ADHERED TO.

2.RESTORATION

THE CONTRACTOR SHALL RESTORE ALL DISTURBED OFF-SITE AREAS TO A CONDITION EQUAL OR BETTER THAN THAT EXISTING PRIOR TO BEGINNING CONSTRUCTION.

3. EROSION PROTECTION

THE CONTRACTOR SHALL PROVIDE ALL ACCEPTABLE AND COMMON PRACTICES TO MINIMIZE WIND AND WATER EROSION OF THE SOILS AT THE PROJECT, THE CONTRACTOR SHALL MONITOR AND EMPLOY BOTH TEMPORARY AND PERMANENT METHODS TO THE SATISFACTION OF THE OWNER, THE WOOD COUNTY ENGINEER ODOT DISTRICT 2 AND OEPA.

4.CLEARING AND GRUBBING

IF DEEMED NECESSARY, THE CONTRACTOR SHALL CLEAR AND STRIP THE PROJECT ROADWAYS OF ALL VEGETATION, ROOTS, TOPSOIL, REFUSE AND OTHER DELETERIOUS NON-SOIL MATERIALS TO BE DISPOSED OF AT AN APPROVED DUMP SITE. MATERIAL CONSIDERED ACCEPTABLE TOPSOIL SHALL BE STOCKPILED IN AN AREA ON SITE DESIGNATED BY THE OWNER, WHICH COST SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

5.EXCAVATION AND EMBANKMENT

AFTER CLEARING AND STRIPPING THE CONTRACTOR SHALL EXCAVATE THOSE AREAS REQUIRING FURTHER EXCAVATION AND EMBANK THOSE AREAS OF THE RIGHT OF WAY AND LOTS. PRIOR TO PLACING OF THE FILL, AREAS TO SUPPORT NEW FILL PAVEMENTS OR FUTURE BUILDINGS SHALL BE CAREFULLY EVALUATED BY A GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL REQUIRE PROOF ROLLING OF THE SOIL WITH A 20 TO 30 TON LOADED TRUCK TO LOCATE SOFT. WEAK, WET SOILS PRESENT AT THE TIME OF CONSTRUCTION, ANY UNSUITABLE MATERIALS SHALL BE REPLACED WITH ACCEPTABLE MATERIAL PROPERLY COMPACTED.

STRUCTURAL FILL SHOULD BE PLACED IN LIFTS OF 6 TO 8 - INCHES LOOSE MEASURE. ALL FILL MATERIAL SHOULD BE PLACED IN HORIZONTAL LIFTS ADEQUATELY KEYED INTO SUBGRADE SOILS. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR (ASTM D698) UNLESS OTHER DIRECTIVES FROM A RETAINED GEOTECHNICAL ENGINEER ARE GIVEN. ALL FILL SHALL BE TESTED WITH AT LEAST ONE (1) FIELD DENSITY TEST PER EVERY 2500 SQUARE FEET OF FILL AREA PER EACH LIFT OF COMPACTED FILL WITHIN THE RIGHT OF

ALL AREAS SHALL BE GRADED TO WITHIN ONE-INCH (1") OF DESIGN PAVEMENT

ALL FILL MATERIAL SHALL BE ACCEPTABLE TO A RETAINED GEOTECHNICAL ENGINEER. NO SLAG MATERIAL SHALL BE PERMITTED. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ODOT ITEM 203.

6. TESTING

A.SUBGRADE COMPACTION TEST

COMPACTION OF EMBANKMENT AND PAVEMENT SUBGRADE AREAS SHALL BE AT 98% AS DETERMINED BY THE STANDARD PROCTOR TEST. COMPACTION TESTS SHALL BE TAKEN EVERY FOUR HUNDRED (400) LINEAL FEET MAXIMUM PER THE WOOD COUNTY ENGINEER.

B.BASE COMPACTION

COMPACTION OF SUBBASE AND BASE MATERIALS SHALL BE AS PER ODOT SPECIFICATIONS. COMPACTION OF SUBBASE AND BASE MATERIALS SHALL BE AT 98% AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698). COMPACTION TESTS SHALL BE TAKEN EVERY FOUR HUNDRED (400) LINEAL FEET MAXIMUM PER THE WOOD COUNTY ENGINEER.

C.CONCRETE TEST

THREE (3) CONCRETE CYLINDERS SHALL BE TESTED FROM EACH DAYS POUR PER THE WOOD COUNTY ENGINEER. CONCRETE SHALL MEET A MINIMUM OF 4000 PSI AT 28 DAYS.

D.ASPHALT CONCRETE CERTIFICATION

PROVIDE JOB-MIX FORMULA CERTIFICATION TO THE WOOD COUNTY ENGINEER FOR EACH PAVEMENT TYPE, CONFORMING TO THE REQUIREMENTS OF ODOT ITEM 441.

FELLER, FINCH & ASSOCIATES, INC. REVISION DATE DESIGN BY: CMG

> DRAWN BY: RSP DATE: 3-16-22

CHK'D BY: GNF

DRAWING: 10E09360DP00/

7.COST

MATERIAL SAMPLING AND TESTING SHALL BE BY A TESTING FIRM APPROVED BY THE WOOD COUNTY ENGINEER. WOOD COUNTY ENGINEER SHALL RECEIVE AN ORIGINAL COPY OF ALL TEST REPORTS DIRECTLY FROM THE TESTING FIRM. THE COST OF MATERIAL SAMPLING AND TESTING SHALL BE PAID BY THE DEVELOPER.

8.SEEDING / TOPSOIL

ALL AREAS OF THE RIGHT OF WAY NOT OTHERWISE OCCUPIED SHALL BE COVERED WITH A MINIMUM OF FOUR INCHES (4") OF TOPSOIL, SEEDED, AND MULCHED IN ACCORDANCE WITH PREVIOUS SECTIONS OF THIS SPECIFICATION.

9. OVERLOT GRADING

THE CONTRACTOR SHALL PROVIDE THE MINIMUM OVERLOT GRADING AND DRAINAGE WORK NECESSARY TO PREVENT STANDING WATER IN THE LOTS DURING THE INTERIM PERIOD BETWEEN DEVELOPMENT OF THE PROPOSED RIGHT OF WAYS AND FINAL LOT DEVELOPMENT. THIS WORK INCLUDES SURFACE GRADING OF THE LOTS, CUTTING SWALES ACROSS THE LOTS AND THE POSSIBLE USE OF STORM SEWER LATERALS AS TEMPORARY DRAINAGE OUTLETS FOR THE LOTS IF NECESSARY. ALL SURFACE WATER RUNOFF SHALL BE DIRECTED TO A STORM SEWER OR EXISTING DRAINAGE DITCH.

10. BACK LOT DRAINAGE

ALL BACK LOT DRAINAGE SWALES SHALL BE CONSTRUCTED IN CONJUNCTION WITH PAVEMENT SUBGRADE PREPARATION. NO PUBLIC UTILITIES SHALL BE PLACED WITHIN THE DRAINAGE AND UTILITY EASEMENT UNTIL THE REAR LOT GRADING HAS BEEN APPROVED BY THE WOOD COUNTY ENGINEER.

11.ITEM SPECIAL - SUBGRADE IMPROVEMENT

AREAS DESIGNATED BY THE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE WOOD COUNTY ENGINEER FOR SUBGRADE IMPROVEMENT SHALL BE UNDERCUT AND BACKFILLED WITH STONE MATERIALS PRIOR TO PLACEMENT OF THE AGGREGATE BASE COURSE. A MINIMUM UNDERCUT OF 6" SHALL BE PROVIDED. ACCEPTABLE STONE MATERIALS ARE NO. 1 AND NO. 2 SIZE AGGREGATE AND ITEM 304, AGGREGATE BASE. COMPACTION SHALL BE EQUAL TO OR EXCEEDING 98% OF MAXIMUM STANDARD PROCTOR DRY UNIT WEIGHT (ASTM D698).

PAYMENT WILL BE BASED UPON THE QUANTITY OF EXCAVATION ONLY AND SHALL INCLUDE BACKFILLING WITH APPROVED MATERIALS. A CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

STORM SEWER GENERAL NOTES

1. PIPE

ALL SEWER PIPE SHALL BE A MINIMUM OF 12" DIAMETER PIPE EXCEPT FOR METER LINES AND UNDERDRAINS. ALL PIPE 12" DIAMETER AND SMALLER SHALL BE EITHER PVC MEETING THE LATEST REQUIREMENTS OF ASTM F-794, WITH A MINIMUM PIPE STIFFNESS OF 60 PSI; PVC MEETING THE LATEST REQUIREMENTS OF ASTM F-949. WITH A MINIMUM PIPE STIFFNESS OF 50 PSI: PVC MEETING THE LATEST REQUIREMENTS OF ASTM D-3034, SDR 35 (TYPE PSM); OR REINFORCED CONCRETE "O"RING PIPE MEETING THE LATEST REQUIREMENTS OF ASTM C-76, CLASS III. ALL PVC PIPE SHALL HAVE A MINIMUM CELL CLASSIFICATION OF 12454-B. 12454-C OR 12364-A PER ASTM D-1784.

ALL SEWER PIPE 15" DIAMETER AND LARGER SHALL BE EITHER PVC MEETING THE LATEST REQUIREMENTS OF ASTM F-794, WITH A MINIMUM PIPE STIFFNESS OF 46 PSI; PVC MEETING THE LATEST REQUIREMENTS OF ASTM F-949, WITH A MINIMUM PIPE STIFFNESS OF 50 PSI: OR REINFORCED CONCRETE "O"RING PIPE MEETING THE LATEST REQUIREMENTS OF ASTM C-76, CLASS III. (ALL ELLIPTICAL PIPE SHALL BE REINFORCED CONCRETE). ALL PVC PIPE SHALL HAVE A MINIMUM CELL CLASSIFICATION OF 12454-B, 12454-C OR 12364-A PER ASTM D-1784. 60" CULVERT SHALL BE REINFORCED CONCRETE "O" RING PIPE.

2.JOINTS

THE JOINTS FOR ALL SEWER PIPE SHALL BE O-RING TYPE MEETING THE REQUIREMENTS OF ODOT ITEM 706.11 (ASTM C-443) FOR CONCRETE AND ASTM D-3212 FOR PVC

3.DEFLECTION TESTING

ALL FLEXIBLE PIPE SHALL BE TESTED FOR DEFLECTION. TESTS SHALL BE CONDUCTED, IN THE PRESENCE OF A REPRESENTATIVE OF THE COUNTY; NO LESS THAN 30 DAYS AFTER FINAL FULL BACKFILL HAS BEEN PLACED. NO PIPE SHALL EXCEED A DEFLECTION OF 5% WHERE POSSIBLE, ELECTRONIC EQUIPMENT IS NOT AVAILABLE, DEFLECTION TESTS CAN BE RUN USING RIGID MANDRELS WITH DIAMETERS EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. ALL TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

STORM SEWER GENERAL NOTES CONTINUED

4.BEDDING

ALL BEDDING SHALL BE CLASS "B" BEDDING AND MEET THE REQUIREMENTS OF ODOT ITEM 611.06 BEDDING. WHERE PVC PIPE IS USED, THE BEDDING SHALL BE EXTENDED TO 12" ABOVE THE TOP OF THE PIPE.



GENERAL NOTES AND SPECIFICATIONS THE RESERVE AT WILLIAMSBURG ON THE RIVER PLAT ONE PAVEMENT AND DRAINAGE

5.BACKFILL

TYPE A AND TYPE B PIPE WITHIN FIVE (5) FEET OF THE EDGE OR BACK OF CURB OF EXISTING OR PROPOSED PAVEMENT AND UNDER THE EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL TO THE SUBGRADE. GRANULAR MATERIAL SHALL MEET THE GRADING REQUIREMENTS OF ITEM 411 OR 304 STONE, ODOT SPECIFICATIONS, OR 1997 ODOT SPECIFICATIONS AS MODIFIED BY THE WOOD COUNTY ENGINEER (MAXIMUM DRY DENSITY EXCEEDING 105 POUNDS/CUBIC FEET AND 98% COMPACTION AS DETERMINED BY THE STANDARD PROCTOR TEST ASTM D698). THE WOOD COUNTY ENGINEER RESERVES THE RIGHT TO ORDER COMPACTION TESTS IF THE WOOD COUNTY ENGINEER DEEMS NECESSARY. TYPE C PIPE OUTSIDE THE LIMITS OF FIVE (5) FEET FROM THE EDGE OR BACK OF CURB OF THE EXISTING OR PROPOSED PAVEMENT MAY BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL. ITEM 411 OR 304 STONE APPROVED GRANULAR MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE PER LINEAL FOOT OF PIPE.

6. CONNECTING TO/OR CROSSING EXISTING UTILITIES

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO. OR TO CROSS OVER OR UNDER AN EXISTING UTILITY; IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING UTILITY AS TO LINE AND GRADE BEFORE LAYING THE PROPOSED CONDUIT. WHEN CONNECTING TO AN EXISTING MANHOLE THE CONTRACTOR SHALL CUT A CIRCULAR HOLE AND INSTALL A KOR-N-SEAL BOOT OR APPROVED EQUAL.

7.SERVICE CONNECTIONS

ALL SEWER SERVICE CONNECTIONS SHALL BE PROPERLY PLUGGED, WITH THE COST OF ALL LABOR AND MATERIALS FOR INSTALLATION INCLUDED IN THE UNIT PRICE BID FOR THE CONDUIT. THE ENDS OF ALL SEWER SERVICE CONNECTIONS SHALL BE MARKED WITH A TWO INCH (2") BY FOUR INCH (4") STAKE EXTENDING FROM THE FLOW LINE TO WITHIN 18 INCHES OF PROPOSED FINISHED GRADE.

8.PLUGS AND FITTINGS

ANY PIPE NOT CONNECTED SHALL BE FITTED WITH PREMIUM JOINT PLUGS FASTENED IN AN APPROVED MANNER. ALL PIPE SPECIALS, SUCH AS PLUGS, BENDS, TEES, WYES, ETC., SHALL BE ONE—PIECE FACTORY FORMED AND CONSIDERED PAID FOR IN THE UNIT PRICE FOR THE PERTINENT CONDUIT ITEM.

9.MANHOLES, CATCH BASINS AND HEADWALLS

MANHOLES, CATCH BASINS AND HEADWALLS SHALL BE CONSTRUCTED ACCORDING TO THE ODOT STANDARD CONSTRUCTION DRAWINGS. ALL CATCH BASINS AND MANHOLES SHALL BE BUILT WITHOUT SUMPS UNLESS OTHERWISE NOTED.

10. MANHOLES

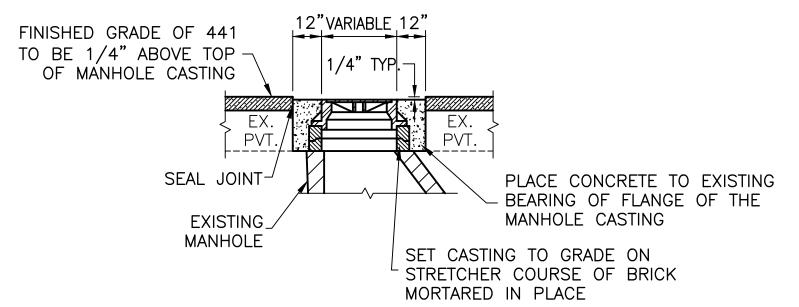
ALL MANHOLES SHALL BE PRECAST CONCRETE CONSTRUCTED ACCORDING TO THE ODOT STANDARDS CONSTRUCTION DRAWING. THE RISER SECTIONS WILL BE "O-RING" TYPE CONFORMING TO ASTM C-443.

11. MANHOLE RIM ELEVATIONS

WHEN MANHOLES ARE LOCATED WITHIN THE PAVEMENT, THE UPPERMOST SURFACE OF THE FRAME OR COVER SHALL BE ¼ INCH BELOW THE PAVEMENT SURFACE. WHEN MANHOLES ARE LOCATED OUTSIDE THE PAVEMENT, THE TOP SHALL BE SET ONE INCH (1") ABOVE THE FINISHED GROUND GRADE TOP ELEVATIONS SHOWN ON THE DRAWINGS ARE GIVEN AT GROUND OR PAVEMENT.

12. STORM SEWER ACCEPTANCE

PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE WOOD COUNTY ENGINEER, ALL STORM SEWERS INSTALLED OR REPAIRED SHALL BE THOROUGHLY CLEANED AND FLUSHED WITH CLEAN WATER AND ALL NEW INLETS AND MANHOLES CONSTRUCTED AS PART OF THE PROJECT SHALL BE FREE OF FOREIGN MATTER AND IN A CLEAN CONDITION.



RESET CASTING BY THE FOLLOWING METHOD:

- STEP 1 THE ASPHALT CONCRETE, INCLUDING LEVELING, BINDER AND WEARING COURSES, SHALL BE LAID CONTINUOUSLY OVER THE CASTING. SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR, THE ENGINEER, AND THE INSPECTORS. FOR THE MARKING AND RE-ESTABLISHMENT OF THE LOCATIONS OF THE CASTINGS.
- STEP 2 AFTER COMPLETELY PLACING AND COMPACTING THE ASPHALT CONCRETE, ONE—HALF THE WIDTH OF THE STREET SHALL BE BARRICADED. THE NEW ASPHALT CONCRETE SURFACE AND THE OLD PAVEMENT SHALL BE NEATLY CUT AWAY WITH AIR SPADES AND REMOVED IN A CIRCULAR AREA OF SPECIFIED DIAMETER AROUND EACH CASTING, DOWN TO THE EXISTING BEARING OF THE FLANGE OF THE CASTINGS AS DETAILED.
- STEP 3 THE CASTING SHALL THEN BE RAISED TO 1/4" BELOW THE NEW ASPHALT CONCRETE SURFACE AND SET TO GRADE. THE EXCAVATED AREA AROUND THE CASTING SHALL THEN BE FILLED AND COMPACTED TO 1/4" BELOW THE NEW SURFACE WITH "HIGH-EARLY STRENGTH" CONCRETE AS SPECIFIED BY THE ENGINEER. THE CONCRETE SHALL BE ALLOWED TO CURE AT LEAST TWENTY-FIVE (24) HOURS BEFORE THIS SIDE OF THE STREET IS OPENED TO TRAFFIC.
- STEP 4 AFTER STEP 3 HAS BEEN COMPLETED THE REMAINING ONE—HALF THE WIDTH OF THE STREET SHALL BE COMPLETED IN THE SAME MANNER AS OUTLINED IN STEP 2 AND 3 ABOVE.
- STEP 5 ALL SANITARY MANHOLES ADJUSTMENT RINGS AND CASTINGS SHALL BE SEALED WITH AN INTERNAL OR EXTERNAL SEAL. INTERNAL SEALS SHALL BE FLEX SEAL. EXTERNAL SEALS SHALL BE WRAPID SEAL OR APPROVED EQUAL. SEALS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE NORTHWESTERN WATER AND SEWER DISTRICT.

FOR SPECIFICATIONS ON RESETTING CATCH BASINS REFER TO C.M.S. SPECIFICATION SS811.

PAYMENT FOR ADJUSTMENT OF EXISTING MANHOLE / CATCH BASIN / CURB BOX CASTINGS SHALL BE PAID FOR UNDER ITEM SS811, ADJUST CASTING TO GRADE. PAYMENT FOR PLACEMENT AND ADJUSTMENT OF NEW CASTINGS TO FINAL GRADE SHALL BE PAID FOR UNDER THE PERTINENT NEW MANHOLE OR CATCH BASIN PAY ITEM.

DETAIL OF ADJUSTMENT AND PLACEMENT
OF MANHOLE / CATCH BASIN / CURB BOX CASTINGS
INCLUDING NEW CONSTRUCTION

	FELLER, FIN				INC.
^	REVISION DATE		DESIGN	BY:	CMG
<u>/1</u> \	BIO POND MOVED	6/7/22	DRAWN E	3Y:	RSP
			DATE:	3-	-16-22
			CHK'D B	Y:	GNF
			DRAWING	: 10E093	60DP00A1

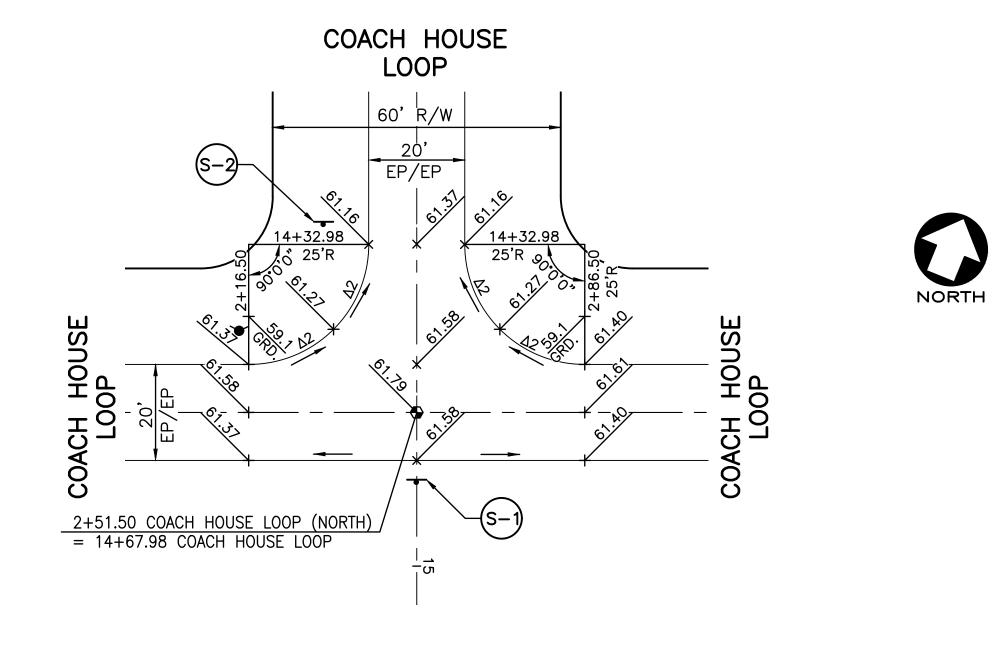
GENERAL SUMMARY

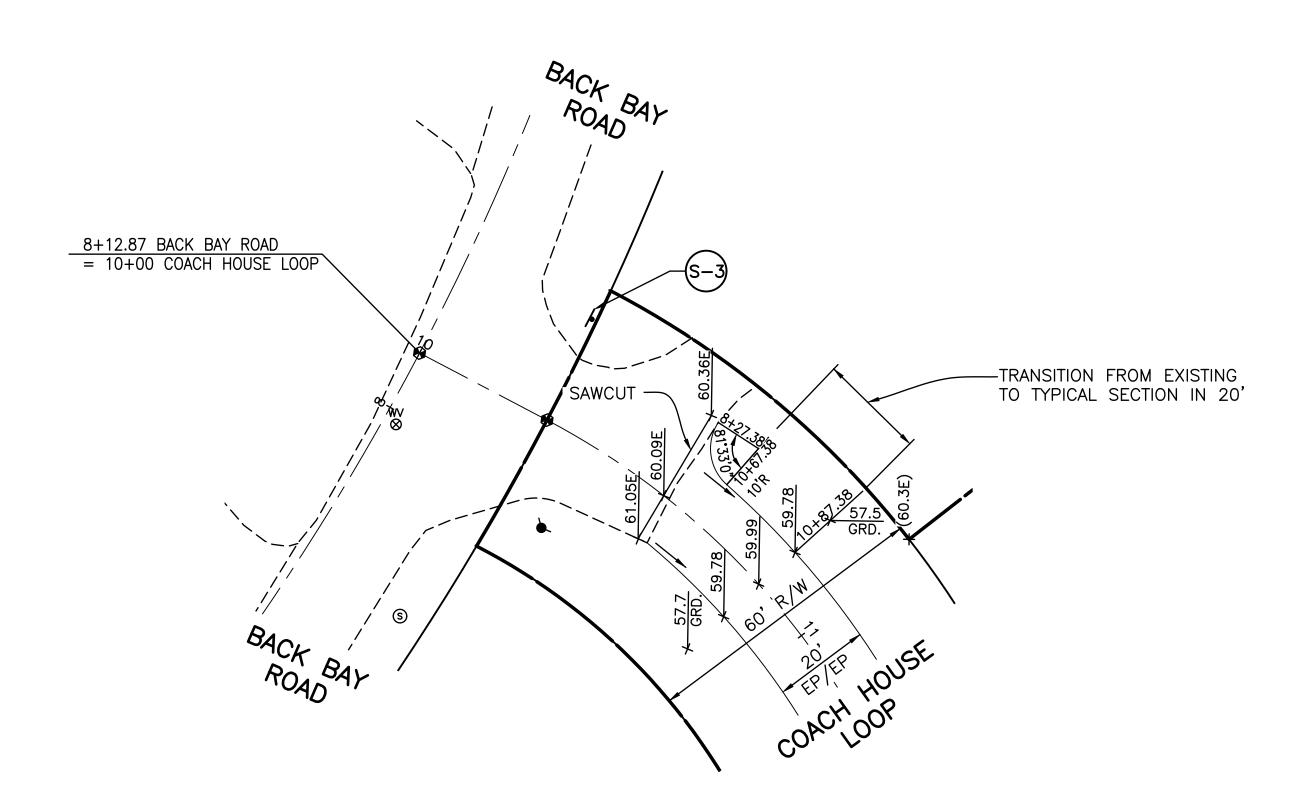
ITEM	QTY.	UNIT	DESCRIPTION
		RO	ADWAY AND PAVEMENT
203	11,958	CU. YD.	
203	14,293	CU. YD.	EXCAVATION, AS PER PLAN
204	3,057	SQ. YD.	SUBGRADE COMPACTION
623	21	EACH	TYPE A MONUMENTS (BY OTHERS)
623	6	EACH	TYPE B MONUMENTS
304	1,119	CU. YD.	AGGREGATE BASE, AS PER PLAN
407	153	GALLON	TACK COAT FOR INTERMEDIATE COURSE
441	213	CU. YD.	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449) PG64-22
441	128	CU. YD.	ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449) PG64-22
SPEC.	2	EACH	GUARDRAIL BARRICADE
SPEC.	300	CU. YD.	SUBGRADE IMPROVEMENT (CONTINGENCY)
SPEC.	416	SQ. FT.	ASPHALT REMOVED
SPEC.	1	LUMP SUM	SUBDIVISION IMPROVEMENT MAINTENANCE BOND
SPEC.	1	LUMP SUM	SUBDIVISION IMPROVEMENT MAINTENANCE BOND
			DRAINAGE
601	850		No. 1 AND No. 2 COARSE AGGREGATE, ODOT 703.01
601	9.7	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C W/O FILTER
605	419	FT.	6" UNDERDRAIN, 707.31
611	90	FT.	6" CONDUIT, TYPE B, AS PER PLAN
611	114	FT.	12" CONDUIT, TYPE B, AS PER PLAN
611	66	FT.	15" CONDUIT, TYPE B, AS PER PLAN
611	30	FT.	21" CONDUIT, TYPE B, AS PER PLAN
611	<u>/1(225)</u>	FT.	8" CONDUIT, TYPE C, CMP
611	657	FT.	6" CONDUIT, TYPE C, AS PER PLAN
611	326	FT.	12" CONDUIT, TYPE C, AS PER PLAN
611	1,028	FT.	15" CONDUIT, TYPE C, AS PER PLAN
611	169	FT.	18" CONDUIT, TYPE C, AS PER PLAN
611	404	FT.	21" CONDUIT, TYPE C, AS PER PLAN
611	4	EACH	ODOT No. 3 MANHOLE
611	7	EACH	ODOT CATCH BASIN NO. 2-2B
611	1	EACH	ODOT CATCH BASIN NO. 2-4
0554	45444		DIODETENTION ADEA
SPEC.	17,144	SQ. FT.	BIORETENTION AREA

SEE SWP3 PLANS FOR EROSION CONTROL QUANTITIES.



FELLER, FIN			, INC.
REVISION	DATE	DESIGN BY:	CMG
		DRAWN BY:	RSP
		DATE:	3-16-22
		CHK'D BY:	GNF
		DRAWING: 10E0	9360DP00A1





INTERSECTION DETAILS

SCALE: 1"= 20'

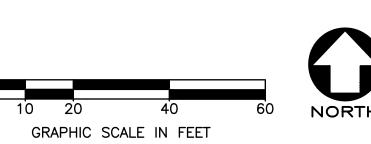
NOTES:

ALL RADII AND DIMENSIONS ARE TO EDGE OF PAVEMENT.

ALL ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.

ADD 600.00 TO ALL ELEVATIONS.

GRD = PROPOSED GROUND GRADE



	SIGNING QUANTITIES								
	LOCATION					ODOT ITEM 630			
ТУРЕ	STREET	STATION	SIDE	CODE	SIZE	SIGN, FLAT SHEET	GROUND MOUNTED SUPPORT		
	OTTLET			0002	W x H (INCHES)	TYPE G	NO. 3 POST		
SIGN					(INCLIES)	SQ. FT.	FT.		
S-2	COACH HOUSE LOOP	14+28.28	RT.	R1-1-30	30x30	6.25	13.0		
S-1	COACH HOUSE LOOP	14+82	ON Q	STREET NAME COACH HOUSE LOOP	36x6	1.5	10.0		
	COACH HOUSE EOOI	14+02	ON &	STREET_NAME COACH_HOUSE_LOOP	36x6	1.5	12.0		
S-3	COACH HOUSE LOOP	10+28	LT.	STREET NAME BACK BAY ROAD	36×6	1.5	14.5		
	COACH HOUSE EOOF	10+26		STREET_NAME 36x6	1.5	14.5			
				R1-1-30	30x30	6.25			
TOTA	ALS	18.5	39.5						

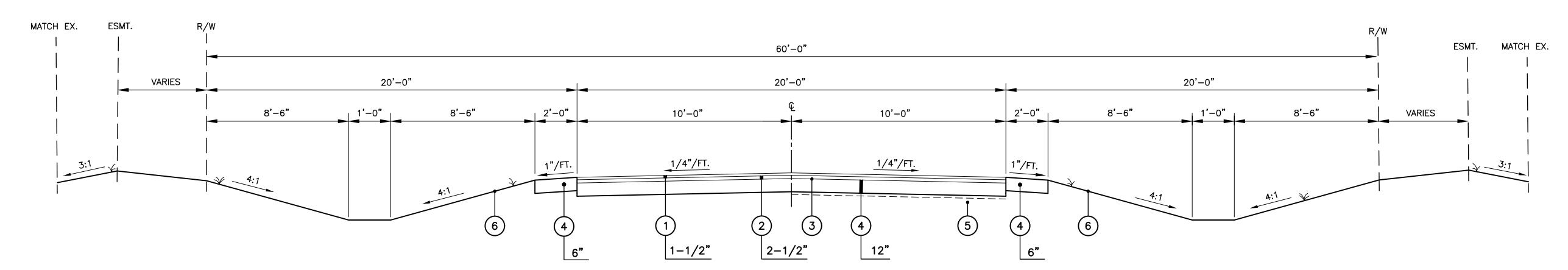
TOTAL QUANTITIES HAVE NOT BEEN CARRIED TO THE GENERAL SUMMARY AS ROAD NAME SIGNS AND STOP SIGNS SHALL BE PLACED BY THE WOOD COUNTY ENGINEER. THE COST FOR SUCH SIGNS SHALL BE PAID FOR BY THE DEVELOPER.

SIGN	TYPES
(S-1)	S-3
STREET NAME STREET NAME D3-1 (2)	STREET NAME STREET NAME STOP
(S-2)	R1-1-30

BENCH MARK DATA

SITE BENCH MARK No. 150
MAG NAIL IN WEST FACE OF POWER POLE AT THE NORTHEAST CORNER OF INTERSECTION OF BACK BAY ROAD AND COACH HOUSE LOOP.

STOP R1-1-30



COACH HOUSE LOOP, STA. 10+87.38 TO STA. 14+32.98 = 345.60 LIN. FT.

COACH HOUSE LOOP (NORTH), STA. 0+55 TO STA. 2+16.50 = 187.19 LIN. FT. * STA. 2+86.50 TO STA. 4+86.12 = 225.31 LIN. FT. *

COACH HOUSE LOOP (SOUTH), STA. 0+55 TO STA. 4+86.12 = 482.50 LIN. FT. *

TOTAL = 1240.60 LIN. FT.

* LENGTH BASED ON CENTERLINE LENGTH

TYPICAL ROAD SECTION

TYPICAL SECTION LEGEND

1) ITEM 441 1-1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449) PG 64 - 22

(2) ITEM 441 2 1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449)

(3) ITEM 407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./SQ YD.

(4) ITEM 304 AGGREGATE BASE (THICKNESS PER PLAN)

(5) ITEM 204 SUBGRADE COMPACTION

(6) ITEM 659 SEEDING AND MULCHING; COMMERCIAL FERTILIZER

PLANTING SOIL REQUIREMENTS

- TEXTURE CLASS: LOAMY SAND. HAVING NO LESS THAT 80% SAND AND GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE
- pH RANGE: 5.2-8.0
- SOLUBLE SALTS: 500 PPM MAXIMUM
- DECOMPOSED ORGANIC MATTER: 3-5% BY WEIGHT [NOTE: THIS TRANSLATES TO 8-20% ORGANIC MATTER BY VOLUME. SEE NOTE ON "CREATING A SUITABLE SOIL MEDIA" BELOW]
- PHOSPHORUS: PHOSPHORUS OF THE PLANTING MEDIA SHOULD FALL BETWEEN 15 AND 60 MG/KG (PPM) AS DETERMINED BY THE MEHLICH III TEST. FOR SITES IN WATERSHEDS WITH A PHOSPHORUS TMDL OR SITES WITH HIGH PHOSPHORUS LOADS, THE PHOSPHORUS CONTENT OF THE PLANTING MEDIA SHOULD FALL BETWEEN 10 AND 30 MG/KG AS DETERMINED BY THE MEHLICH III
- SAND ADDED SHALL BE CLEAN AND MEET AASHTO M−6 OR ASTM C-33 WITH A GRAIN SIZE OF 0.02-0.04" INCHES.

CREATING SUITABLE SOIL MEDIA - TO MEET THE ABOVE SOIL MEDIA CRITERIA, THE FOLLOWING MIX (BY VOLUME) IS RECOMMENDED AS A STARTING POINT:

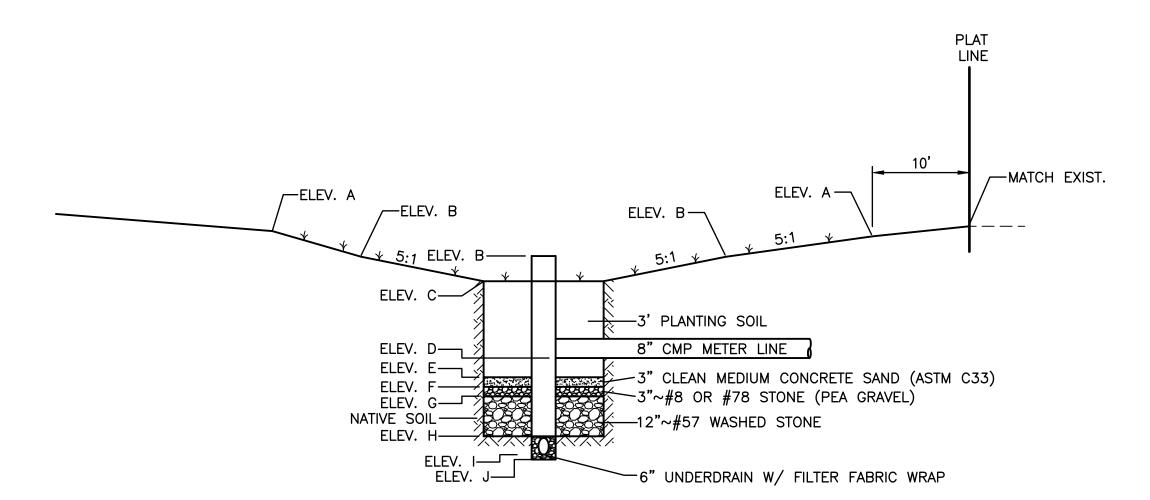
SAND: 7.5 PARTS CLEAN SAND (I.E., ASTM C-33 OR EQUIVALENT, <1% PASSING NO. 200 SIEVE)

NATIVE SOIL: 1.5 PART (LOAM, SILT LOAM OR CLAY LOAM TEXTURE)

DECOMPOSED ORGANIC MATTER: 1 PART (LEAF COMPOST, PINE BARK FINES, MULCH FINES, ETC.)

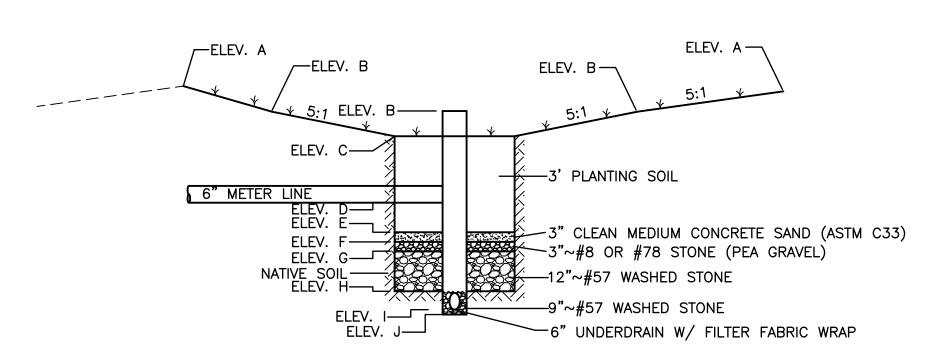
BASED ON TESTING, EXPERIENCE AND NATIVE SOIL CHARACTERISTICS THE SAND, SOIL

OR ORGANIC MATTER CONTENT CAN BE ADJUSTED TO ACHIEVE THE DESIRED MIX. THE SOIL MIX SUPPLIER SHOULD PRE-TEST THE SAND, NATIVE SOIL AND ORGANIC MATTER TO EVALUATE THEIR PHOSPHORUS CONTENT. THE SOIL MIX SUPPLIER MUST PRESENT A SOIL TEST SHOWING THE PLANTING MEDIA MEETS THE CRITERIA ABOVE.



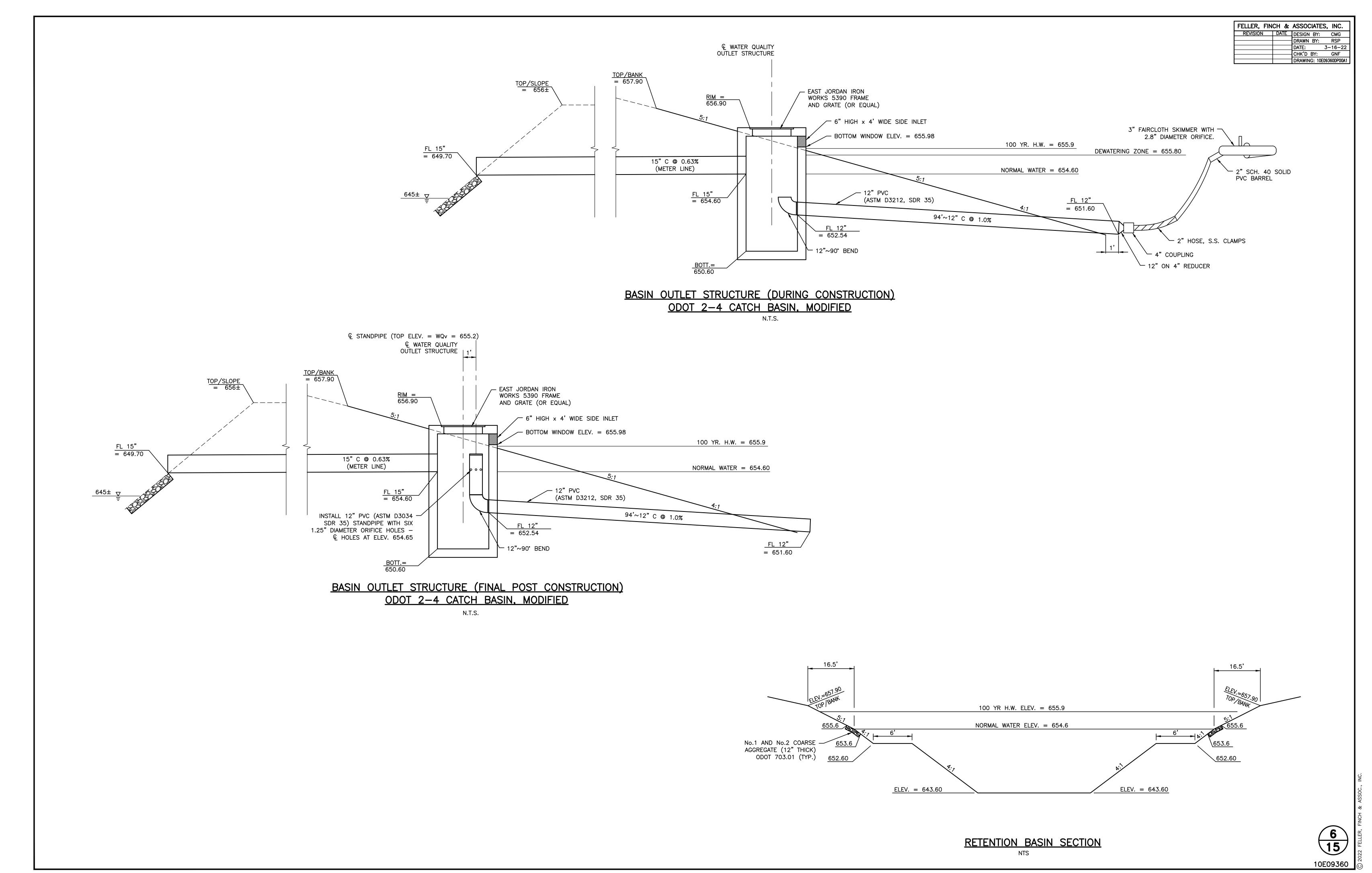
BIORETENTION POND #1 SECTION

POND	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F	ELEV. G	ELEV. H	ELEV. I	ELEV. J
1	657.8	657.1	656.1	653.60	653.1	652.85	652.60	651.60	651.10	650.85



BIORETENTION POND #2 SECTION

POND	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F	ELEV. G	ELEV. H	ELEV. I	ELEV. J
2	658.5	658.0	657.0	654.50	654.0	653.75	653.50	652.50	652.00	651.75



0 NORTH SCALE: 1" = 50'

FELLER, FINCH & ASSOCIATES, INC.

REVISION DATE DESIGN BY: CMG
DRAWN BY: RSP
DATE: 3-16-22
CHK'D BY: GNF
DRAWING: 10E09360DP00A

AS PER FEMA COMMUNITY PANEL NUMBER 39173C0108D EFFECTIVE DATE SEPT. 2, 2011, THIS PROJECT IS NOT WITHIN THE 100 YEAR FLOOD HAZARD AREA.

SOILS TYPE

AnA - AURAND FINE SANDY LOAM
EMA - EEL SILT LOAM
SNA - SLOAN SILTY LOAM
StC2 - ST CLAIR LOAM
SuE2 - ST CLAIR SILTY CLAY LOAM
NpB2 - NAPPANEE SILTY CLAY LOAM
NpA - NAPPANEE SILTY CLAY LOAM
NnA - NAPPANEE LOAM

LEGEND

MONUMENT LEGEND

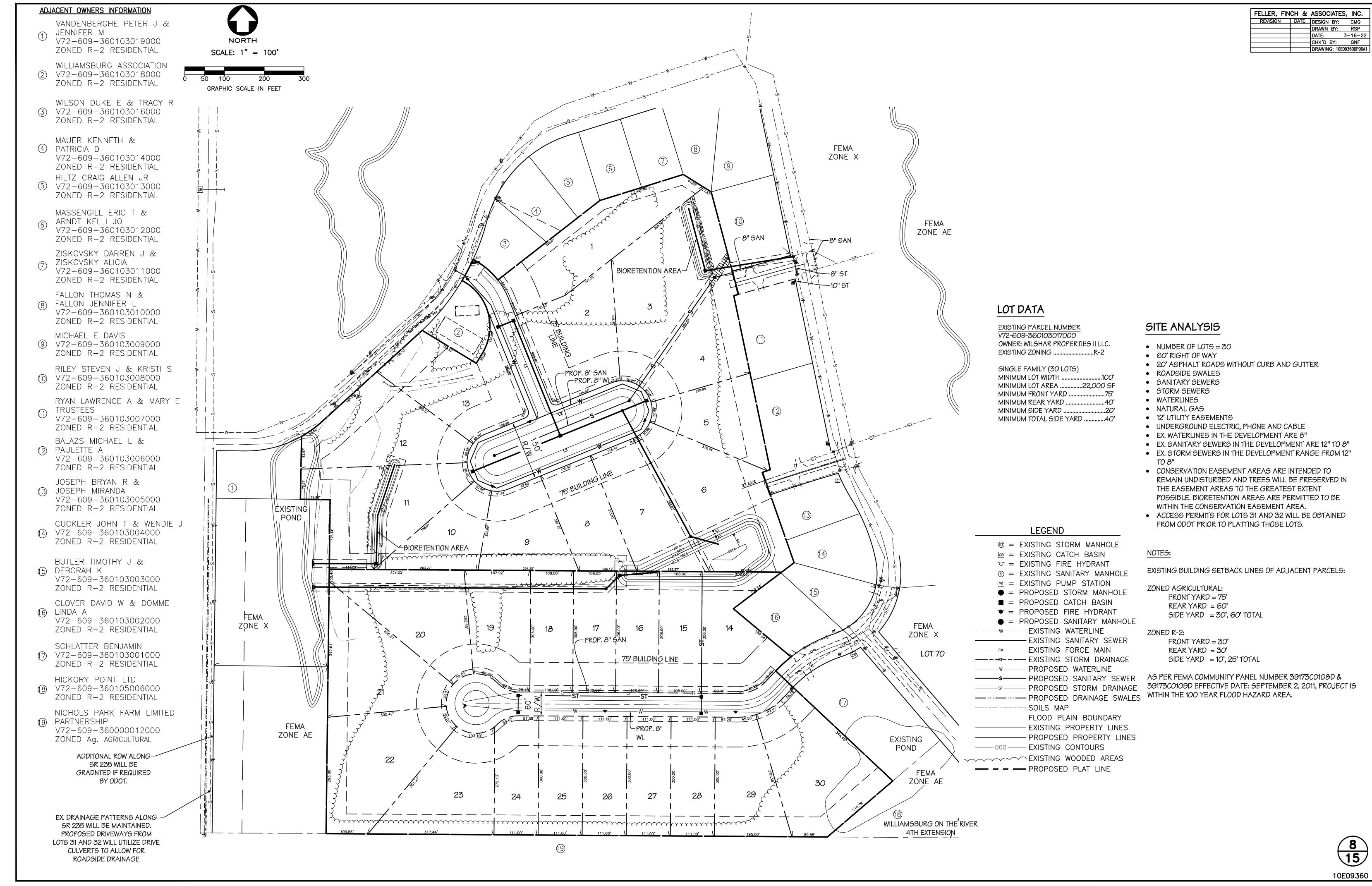
BENCH MARK DATA

SITE BENCH MARK No. 150

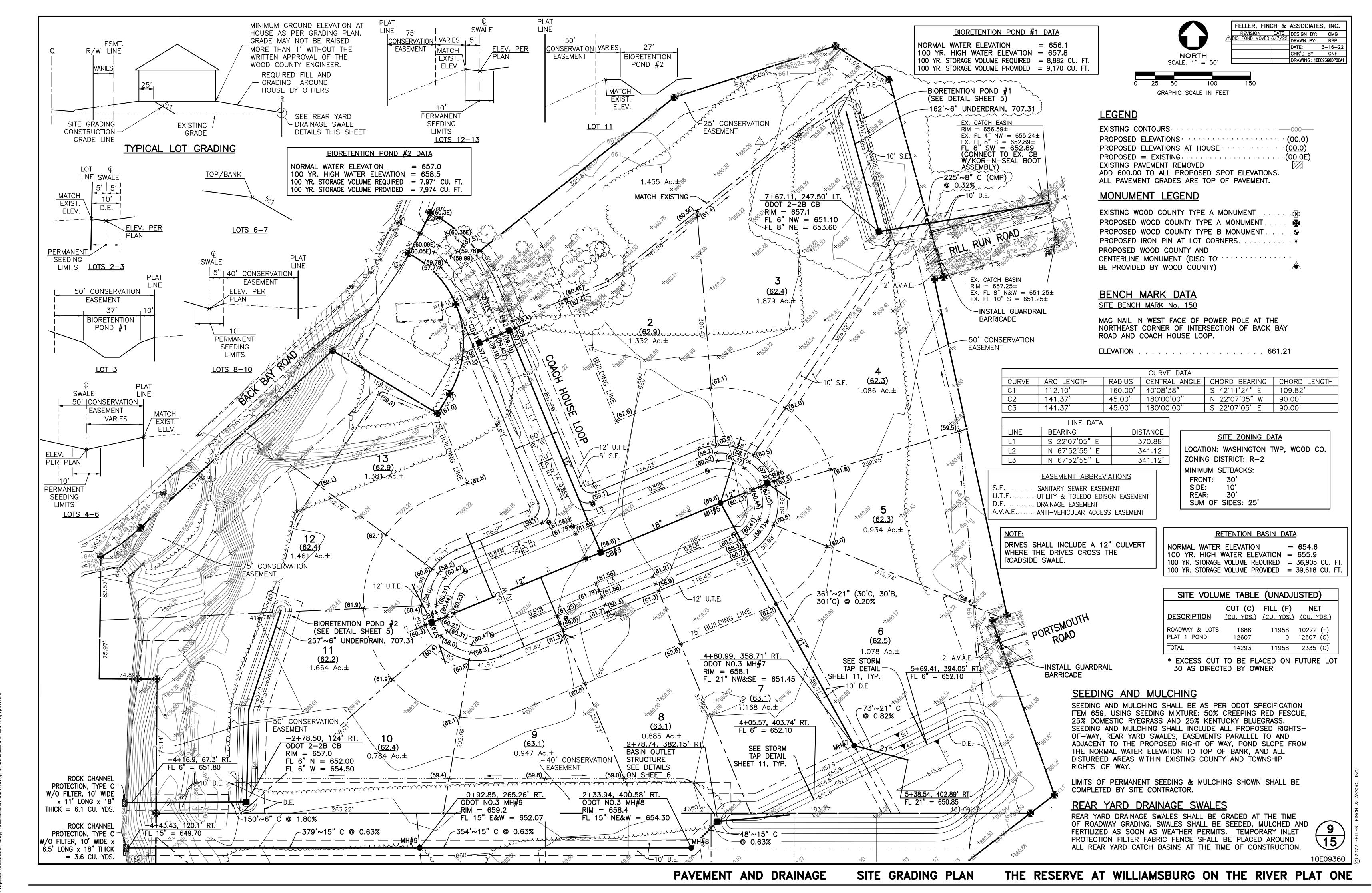
MAG NAIL IN WEST FACE OF POWER POLE AT THE NORTHEAST CORNER OF INTERSECTION OF BACK BAY ROAD AND COACH HOUSE LOOP.

SuE2 SuE2 NnA

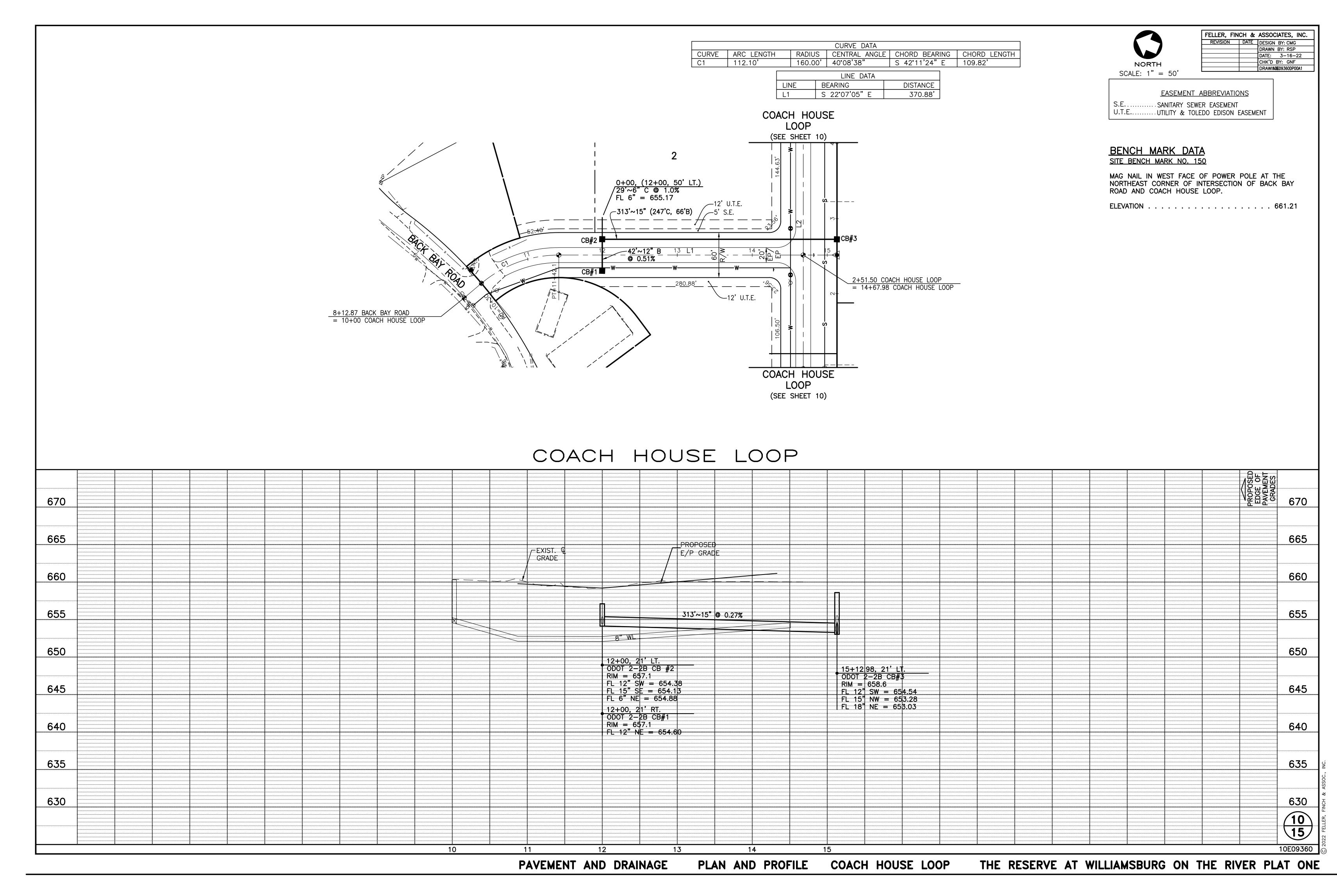
7 15



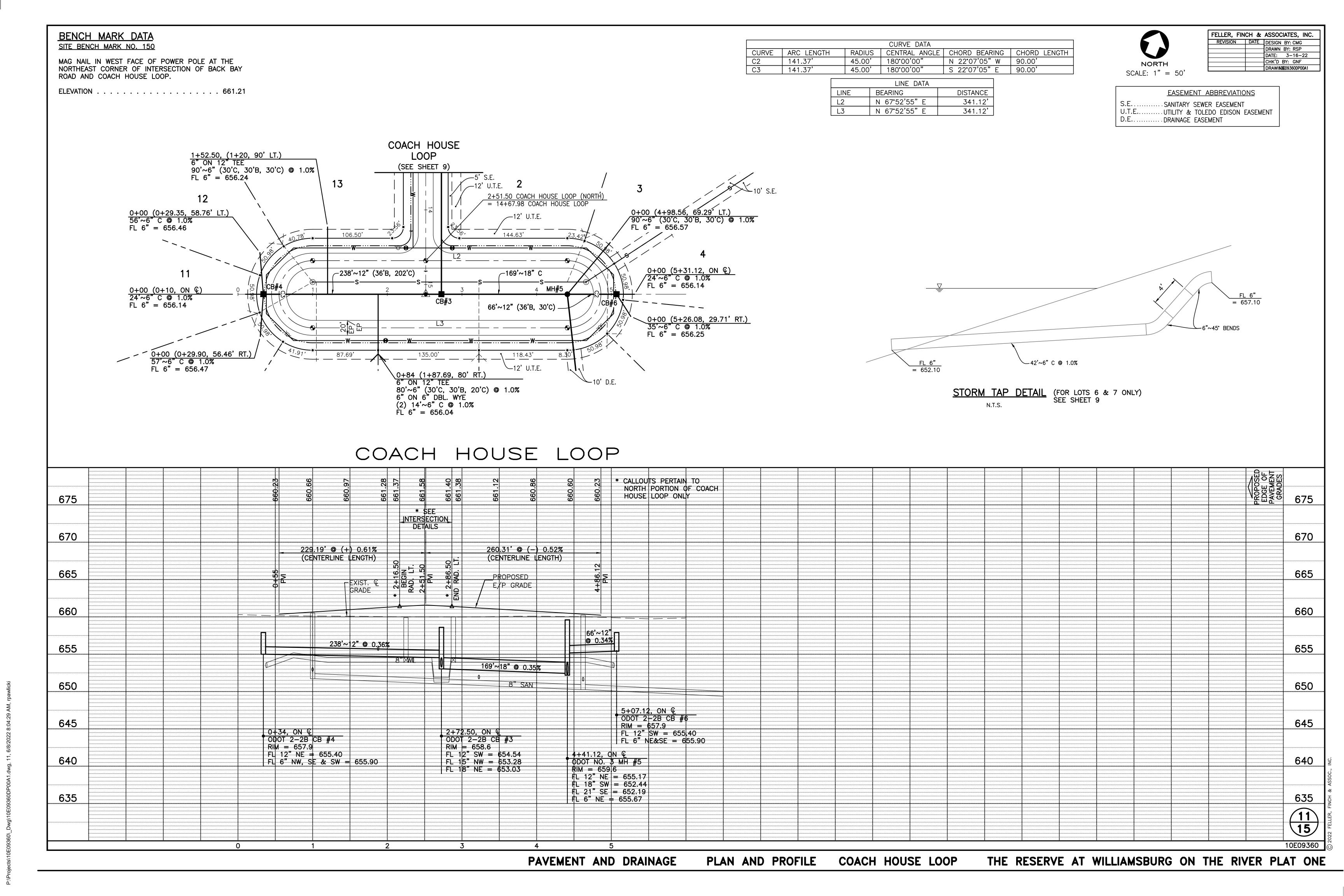
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