

LEGEND :

- X753.68 EXISTING SPOT ELEVATION
- - - - - EXISTING CONTOUR LINE
- - - - - EXISTING SANITARY SEWER W/ MANHOLE,
- - - - - EXISTING STORM SEWER W/ END SECTION, MANHOLE, YARD INLET, AND CURB INLET
- - - - - EXISTING WATER LINE W/ WATER METER, VALVE AND FIRE HYDRANT ASSEMBLY
- - - - - EXISTING BURIED GAS MAIN W/ METER AND VALVE
- - - - - EXISTING BURIED TELEPHONE CABLE W/ MANHOLE
- - - - - EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
- - - - - EXISTING OVERHEAD POWER LINE
- - - - - EXISTING UTILITY POLE W/ GUYWIRE
- - - - - EXISTING UTILITY PEDESTAL
- - - - - EXISTING MAILBOX
- - - - - EXISTING TRAFFIC SIGN
- - - - - EXISTING TREE/SHRUB ROW
- X - X - EXISTING CHAINLINK FENCE
- - - - - S.S., D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
- - - - - D.&U.E. DRAINAGE AND UTILITY EASEMENT
- - - - - B.S.L. BUILDING SETBACK LINE

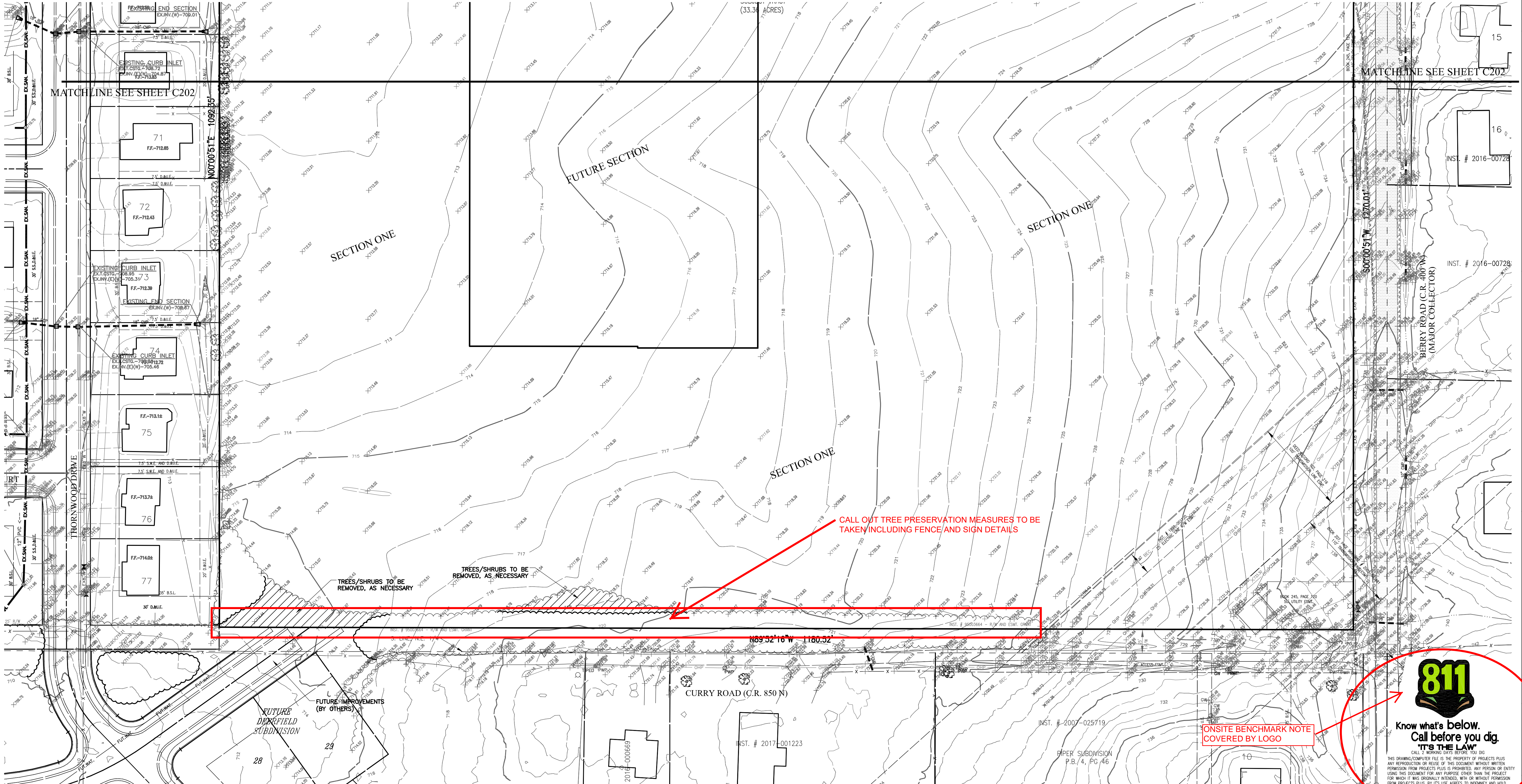
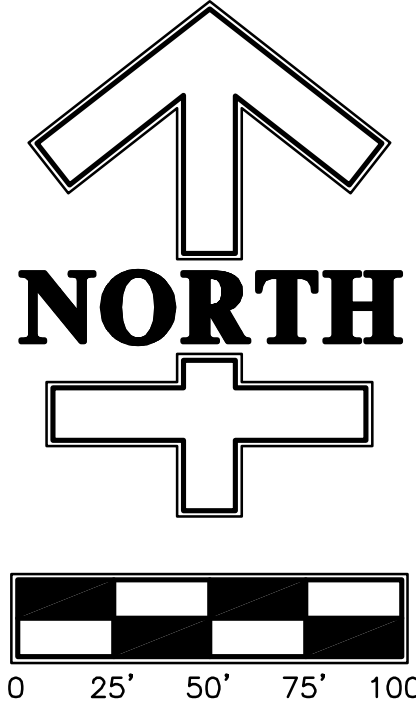
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FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAT AND RESTRICTIONS

BENCHMARK INFORMATION

- SITE ELEVATIONS ARE BASED ON GPS GEIOD "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
- ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113M-R3E)



DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	EXISTING SITE PLAN
PROJECT	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
SEAL	
JOB NUMBER	20019.01
SHEET	C201
DATE	AUGUST 30, 2022

PROJECTS plus
GREENWOOD SURVEYING COMPANY
 SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317)-882-5003

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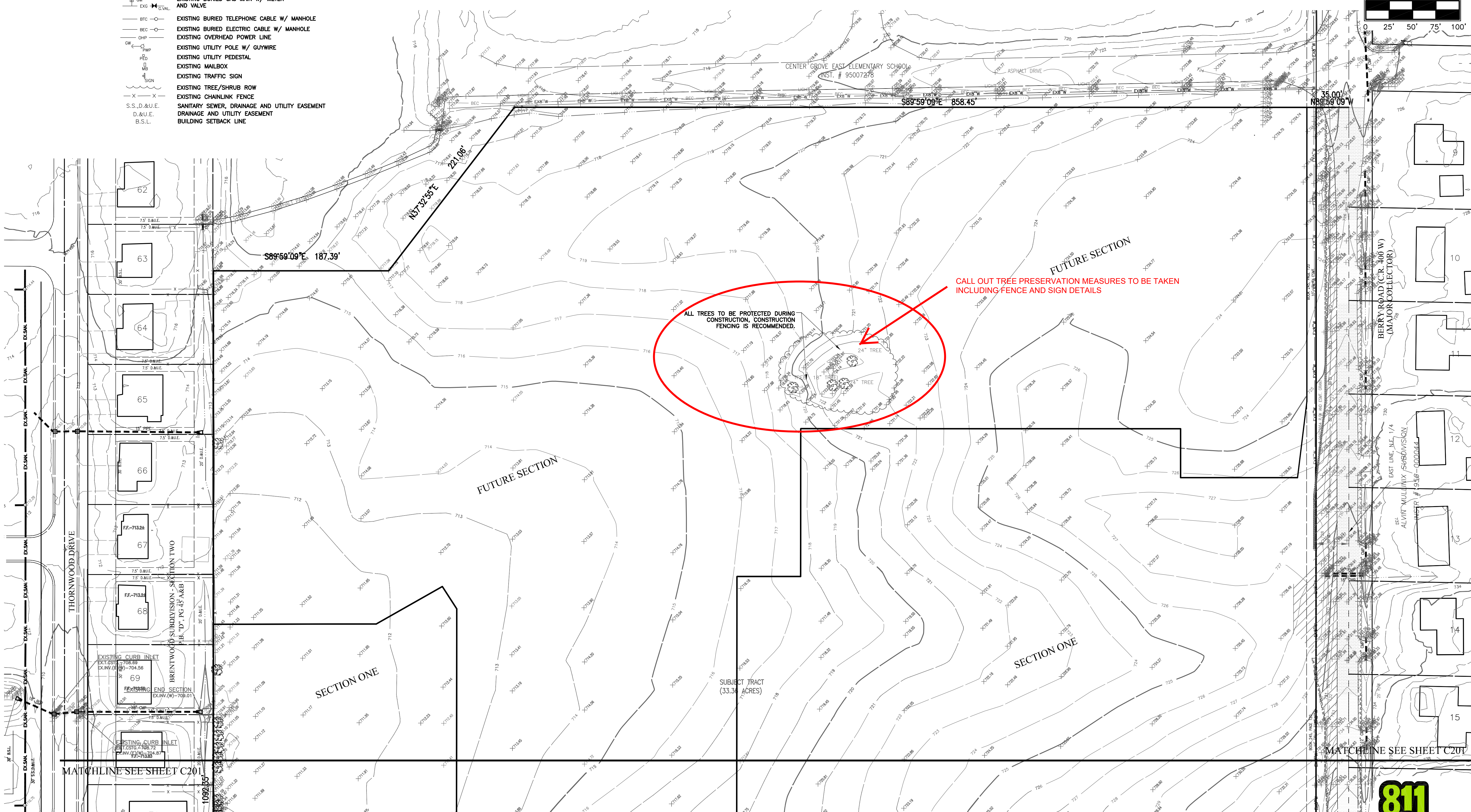
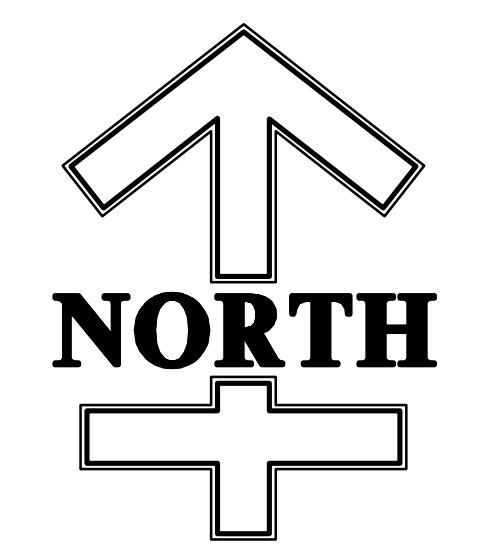
- LEGEND :**
- X175.68 EXISTING SPOT ELEVATION
 - 75.2 EXISTING CONTOUR LINE
 - EX-SAN EXISTING SANITARY SEWER W/ MANHOLE
 - EX-SW EXISTING STORM SEWER W/ END SECTION, MANHOLE, YARD INLET, AND CURB INLET
 - EX-WM EXISTING WATER LINE W/ WATER METER, VALVE AND FIRE HYDRANT ASSEMBLY
 - EX-GM EXISTING BURIED GAS MAIN W/ METER AND VALVE
 - EX-BTC EXISTING BURIED TELEPHONE CABLE W/ MANHOLE
 - EX-BEC EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
 - EX-HP EXISTING OVERHEAD POWER LINE
 - EX-GW EXISTING UTILITY POLE W/ GUYWIRE
 - EX-PED EXISTING UTILITY PEDESTAL
 - EX-MB EXISTING MAILBOX
 - EX-SIGN EXISTING TRAFFIC SIGN
 - EX-TREE EXISTING TREE/SHRUB ROW
 - EX-S.S.D.&U.E. EXISTING CHAINLINK FENCE
 - EX-D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - EX-B.S.L. DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE

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DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
PROJECT	BERRY CHASE - SECTION ONE
TITLE	EXISTING SITE PLAN
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>ALVIN MULLENIX SUBDIVISION LAWYER # 258-0000444</p> <p>SEAL JEFFERY K. SMITH REGISTERED No. 19419 STATE OF INDIANA PROFESSIONAL ENGINEER Jeffery K. Smith 8/30/22</p>	
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JOB NUMBER	20019.01
SHEET	C202
DATE	AUGUST 30, 2022

GENERAL NOTES

1. THE CONTRACTOR SHALL STRIP TOPSOIL IN ALL FILL AREAS AND REDISTRIBUTED OVER FILL AREAS A MAXIMUM OF THREE (3) INCHES PRIOR TO SEEDING.
2. EXCESS TOPSOIL SHALL BE STOCKPILED IN AN AREA PER THE APPROVED SWPPP EROSION CONTROL PLAN.
3. EXISTING WELLS AND SEPTIC SYSTEMS ON THE SITE MUST BE PROPERLY ABANDONED WITH PLUMBING AND SEWER OR HEALTH DEPARTMENT PERSONNEL PRESENT.

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SIDE AND REAR YARD SETBACKS:

1. SIDE YARD: 10' MIN., 20' AGGREGATE.
2. REAR YARD: 20' MIN.

SANITARY NOTE:

WHERE THE SANITARY DRAINAGE SYSTEM CAN DISCHARGE INTO THE SEWER BY GRAVITY FLOW, THE LOWEST FLOOR ELEVATION WHERE A PLUMBING FIXTURE OR FLOOR DRAIN IS INSTALLED MUST BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE LOWEST DOWNSTREAM OR UPSTREAM MANHOLE CASTING NEAREST TO THE SUBJECT LATERAL CONNECTION.

BENCHMARK INFORMATION

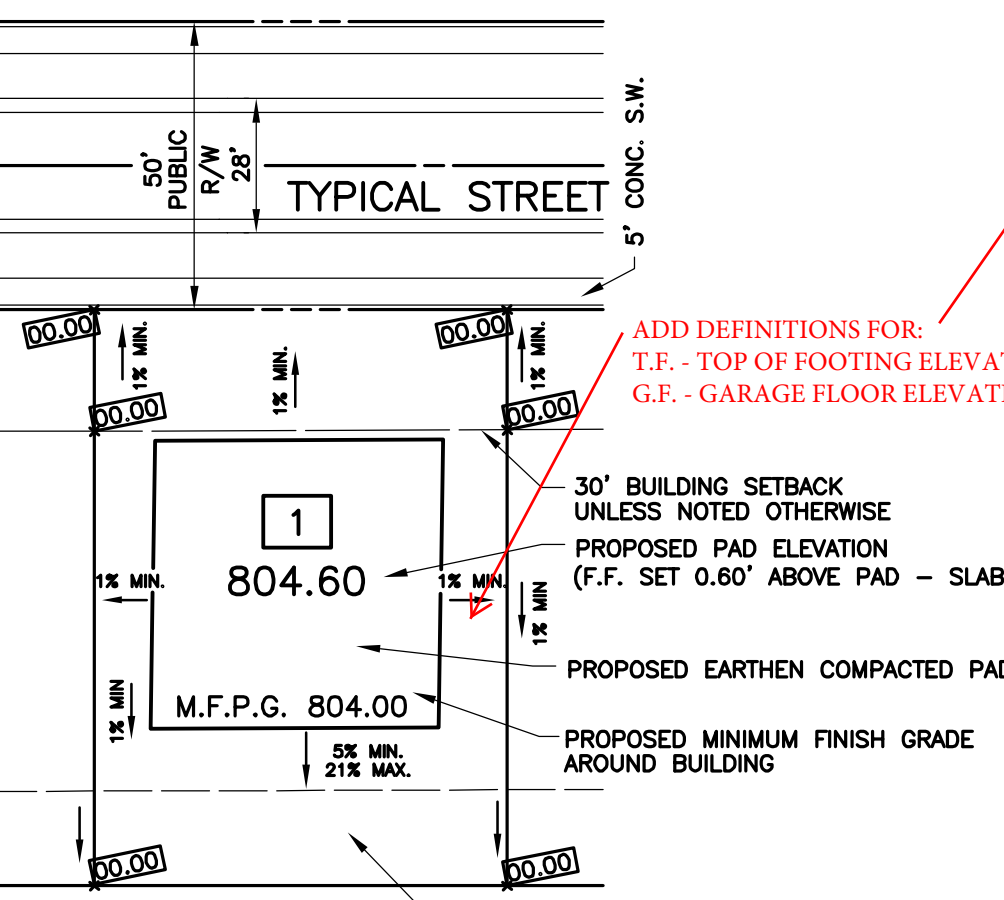
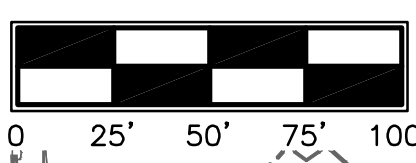
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LEGEND :

- 752 EXISTING CONTOUR LINE
- EX.SAN EXISTING SANITARY SEWER W/ MANHOLE, EXISTING STORM SEWER W/ END SECTION, MANHOLE, YARD INLET, AND CURB INLET
- EX.GM EXISTING BURIED GAS MAIN W/ METER AND VALVE
- EX.BTC EXISTING BURIED TELEPHONE CABLE W/ MANHOLE
- EX.BEC EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
- EX.OHP EXISTING OVERHEAD POWER LINE
- EX.UPL EXISTING UTILITY POLE W/ GUYWIRE
- EX.UPE EXISTING UTILITY PEDESTAL
- EX.MBX EXISTING MAILBOX
- EX.TS EXISTING TRAFFIC SIGN
- EX.TSR EXISTING TREE/SHRUB ROW
- EX.CNF EXISTING CHAINLINK FENCE
- S.S.D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
- D.&U.E. DRAINAGE AND UTILITY EASEMENT
- B.S.L. BUILDING SETBACK LINE
- R/W RIGHT-OF-WAY

- 27 LOT NUMBER
- 754.50 PROPOSED PAD ELEVATION, DEVELOPER SHALL GRADE PAD TO DRAIN
- MINIMUM FLOOD PROTECTION GRADE
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- 406 STRUCTURE NUMBER
- PROPOSED FLOWLINE
- PROPOSED FLOW DIRECTION
- PROPOSED SPOT ELEVATION
- MATCH EXISTING GRADE
- PROPOSED HANDICAP ACCESS RAMP
- PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- PROPOSED AREA LIGHT

ADD T.P.E. DEFINITION TO LEGEND



TYPICAL LOT GRADING PLAN

SHOW MFPG FOR FRONT AND REAR ON ALL LOTS (NONE SHOWN); LIST "NA" IF NOT APPLICABLE.



SHOW FLOOD PATH ELEVATIONS BETWEEN LOTS IN BRENTWOOD SECTION 2

FOR DETAIL OF DETENTION POND SEE SHEET NO. C406

MATCHLINE SEE SHEET C301



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DATE	REVISION	SYMBOL	SCALE	DRAWN	CHECKED	CERTIFIED
			1"=50'	JPH	JKS	JKS

PROJECT: BERRY CHASE - SECTION ONE
 WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
 TITLE: PROPOSED SITE PLAN

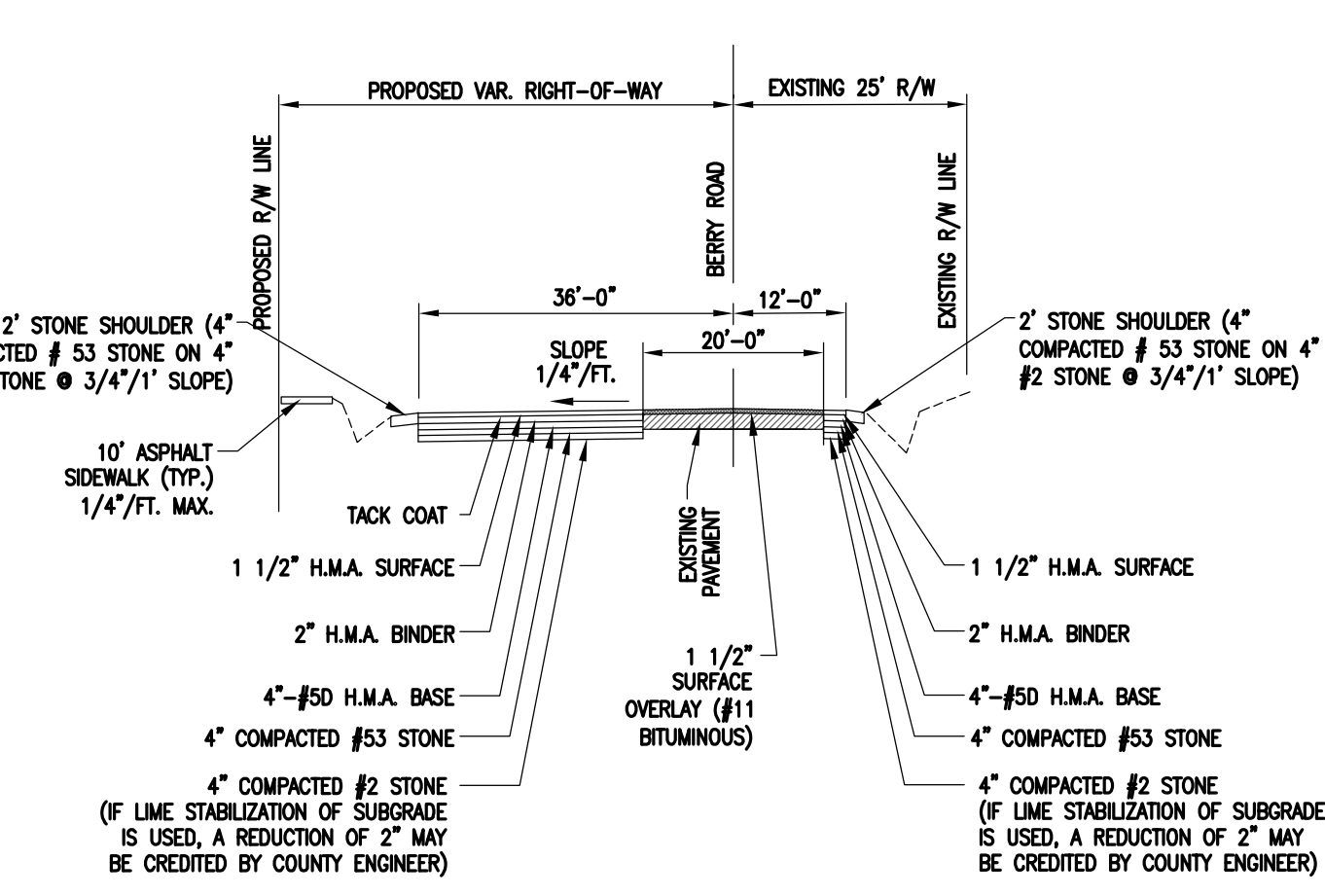
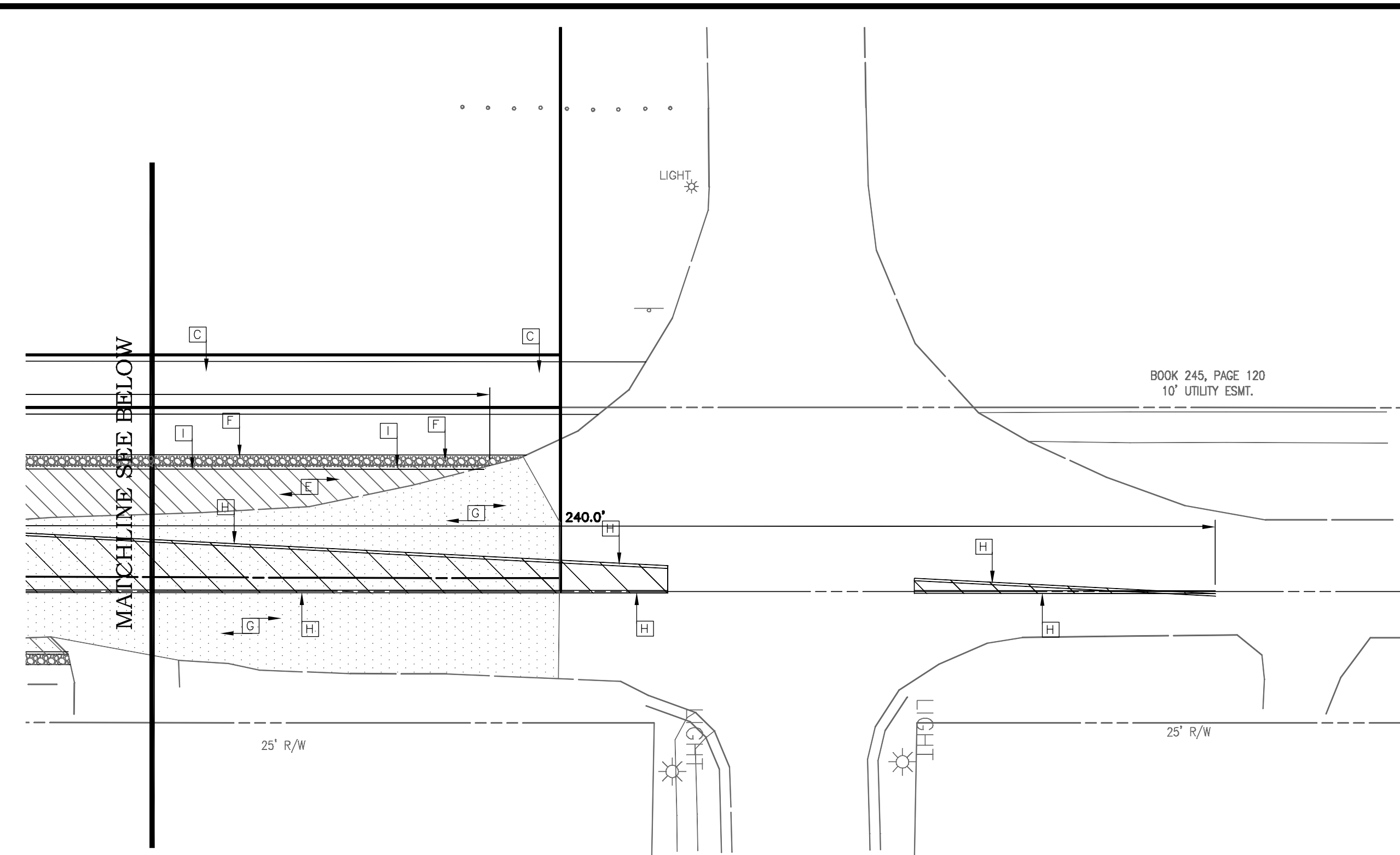
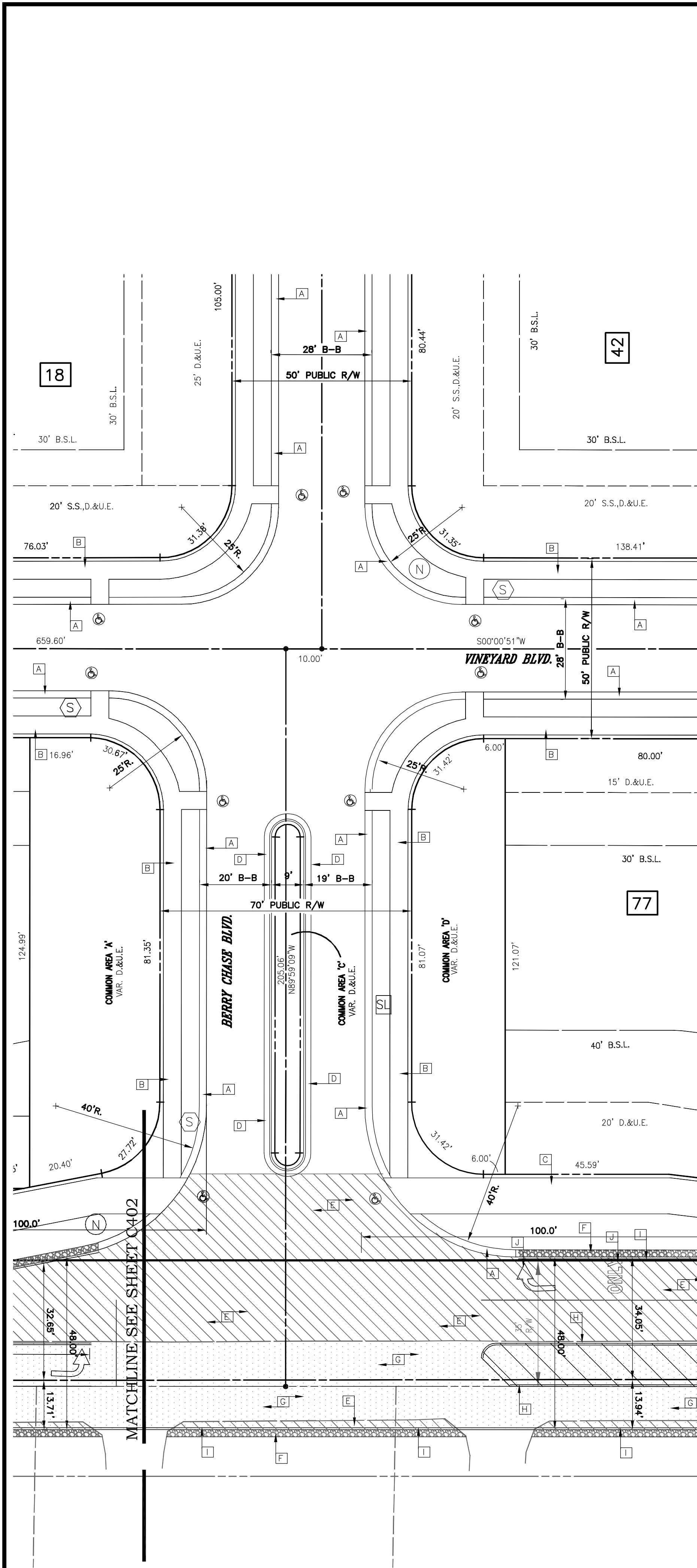
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 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317)-882-5003

SEAL
 JEFFERY K. SMITH
 REGISTERED
 No. 19419
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Jeffrey K. Smith
 8/30/22

JOB NUMBER: 20019.01
 SHEET

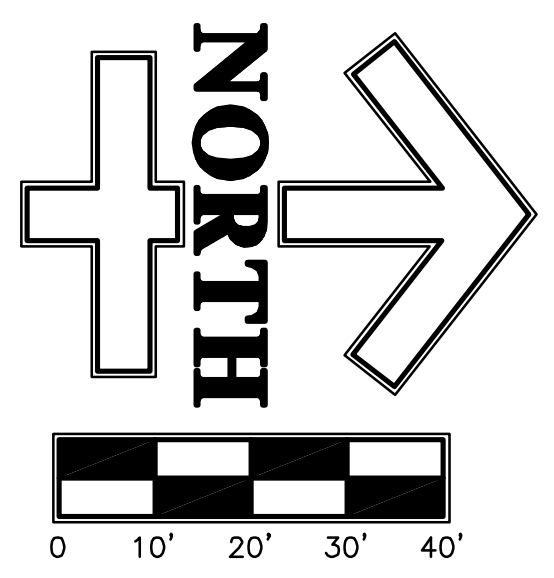
C302

DATE: AUGUST 30, 2022



BERRY ROAD IMPROVEMENTS
NO SCALE

- KEYNOTE LEGEND :**
- A 2' CONC. ROLL CURB (TYP.)
 - B 5' CONC. SIDEWALK (TYP.)
 - C 10' ASPHALT PATH
 - D 6" CONC. CHAIRBACK CURB
 - E INDICATES AREA OF FULL DEPTH R/W PAVEMENT
 - F INDICATES AREA OF 2' STONE SHOULDER
 - G INDICATES AREA OF 1 1/2" ASPHALT OVERLAY (#11 BITUMINOUS)
 - H DUAL YELLOW CENTERLINE THERMOPLASTIC PAVEMENT STRIPING
 - I WHITE THERMOPLASTIC PAVEMENT STRIPING
 - J WHITE THERMOPLASTIC RIGHT TURN ARROW



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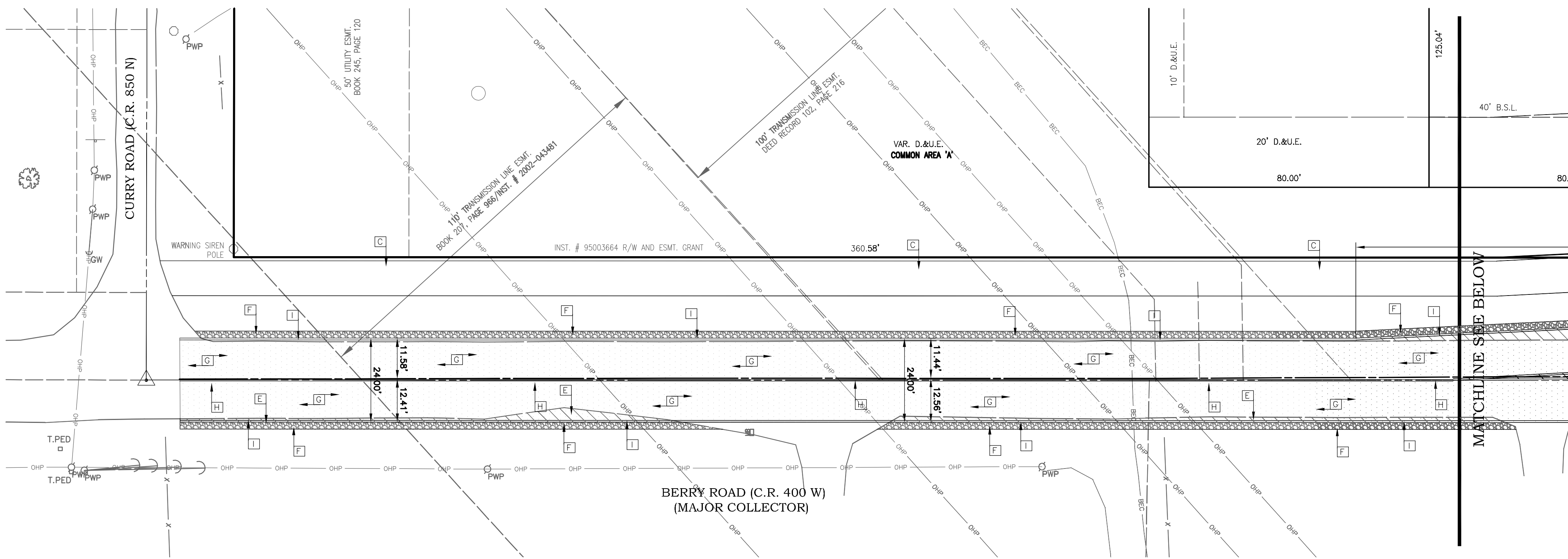
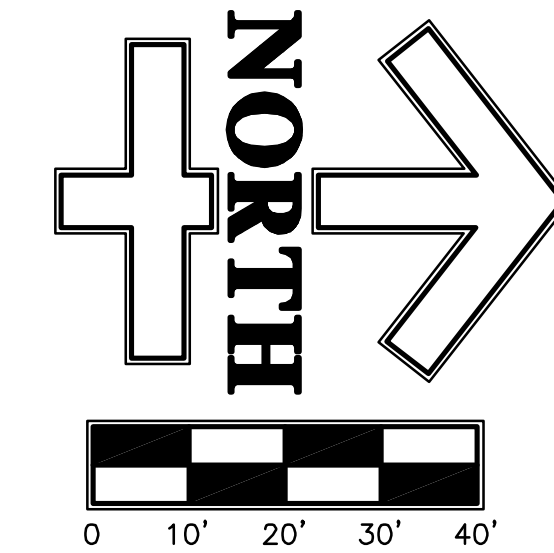
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 - ALL PAVEMENT STRIPING TO BE THERMOPLASTIC, AND PLACED AFTER (30) THIRTY DAY ASPHALTIC CURE PERIOD. (TEMPORARY CENTERLINE STRIPING TO BE PLACED UNTIL FINAL STRIPING).
 - ASPHALTIC OVERLAY TO EXTEND TO FAR LIMITS OF WIDENING WORK.

- LEGEND :**
- 27 LOT NUMBER
 - PROPOSED HANDICAP ACCESS RAMP
 - PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
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TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	ENTRANCE DETAIL (GEOMETRIC)
PROJECTS plus GREENWOOD SURVEYING COMPANY SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003	
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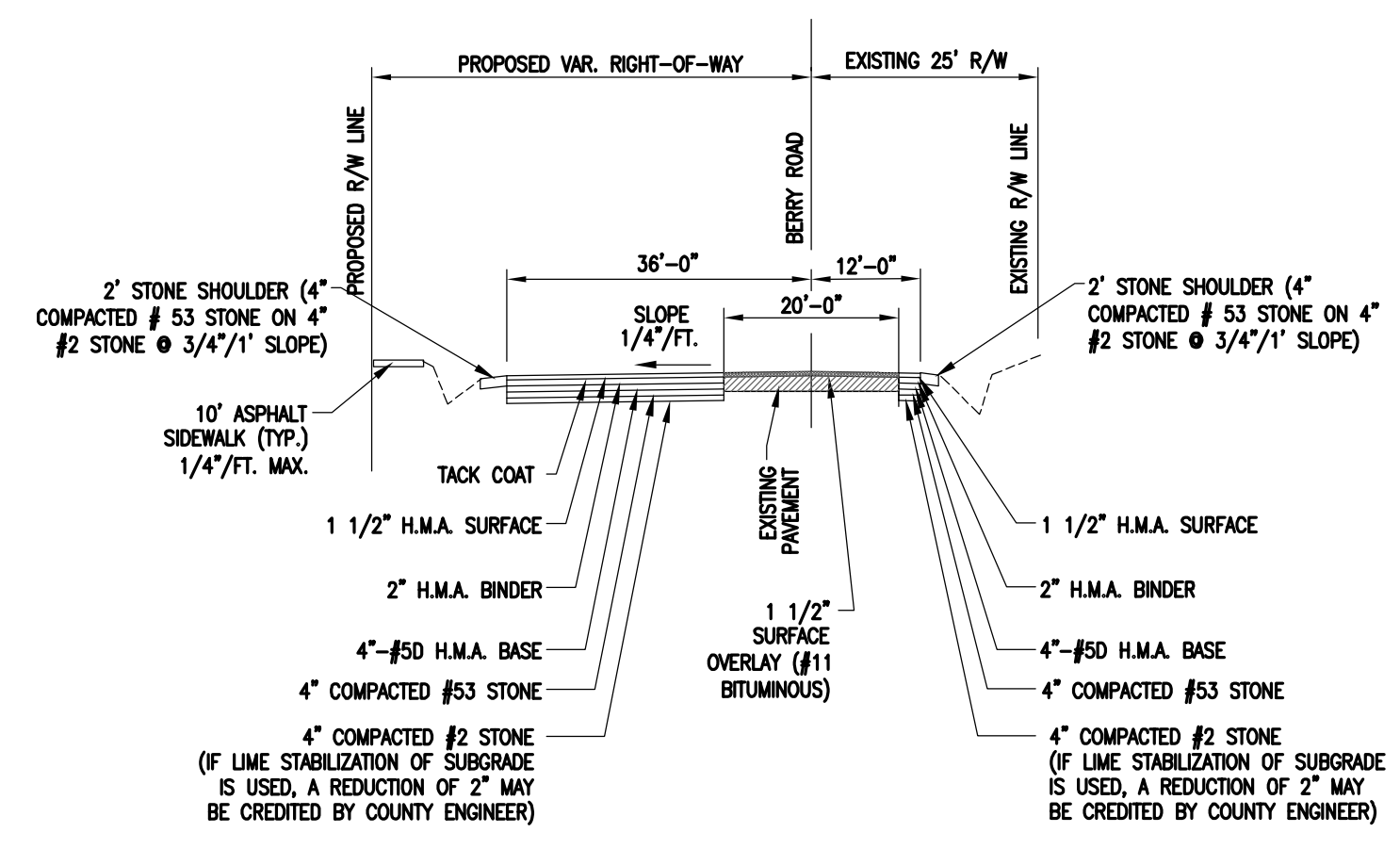
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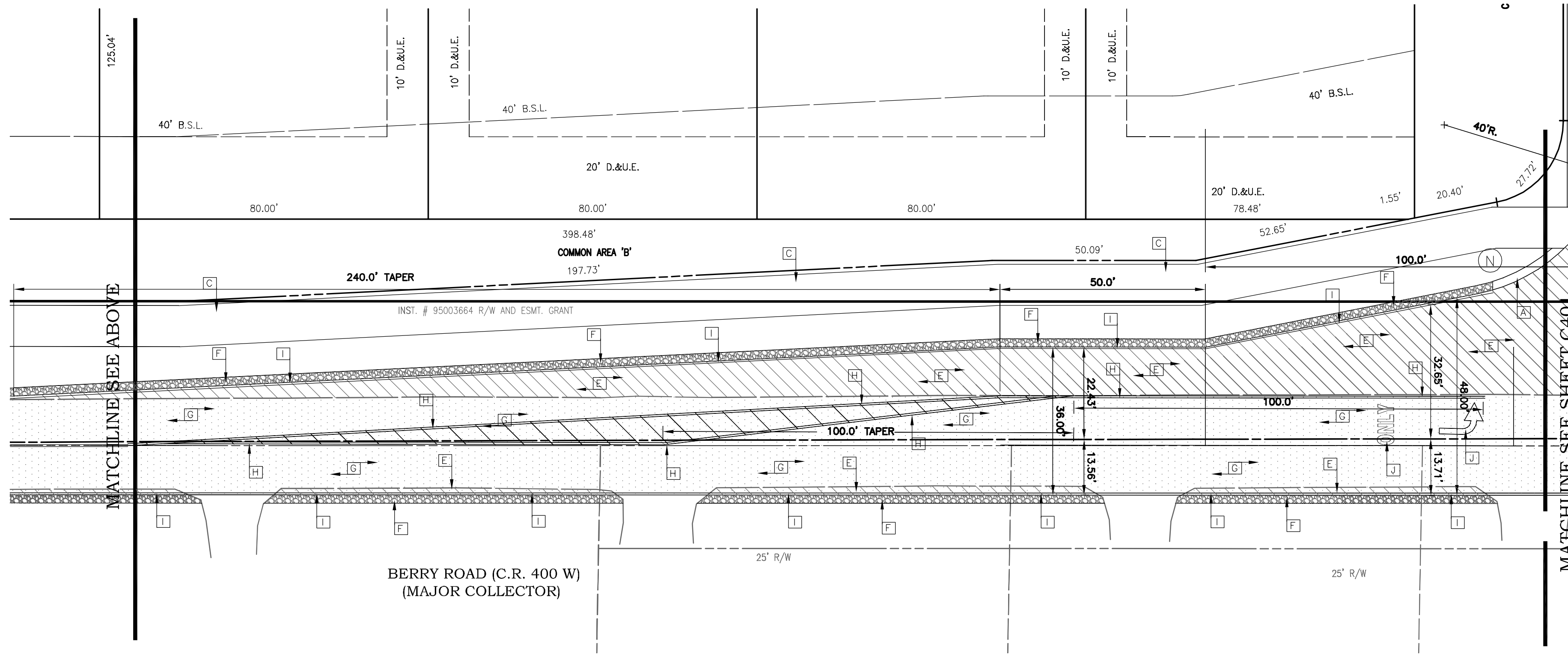
BERRY ROAD IMPROVEMENTS
NO SCALE

KEYNOTE LEGEND :

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- B 5' CONC. SIDEWALK (TYP.)
- C 10' ASPHALT PATH
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- RIGHT-OF-WAY



BERRY ROAD (C.R. 400 W)
(MAJOR COLLECTOR)

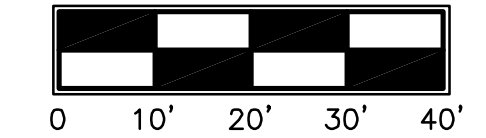
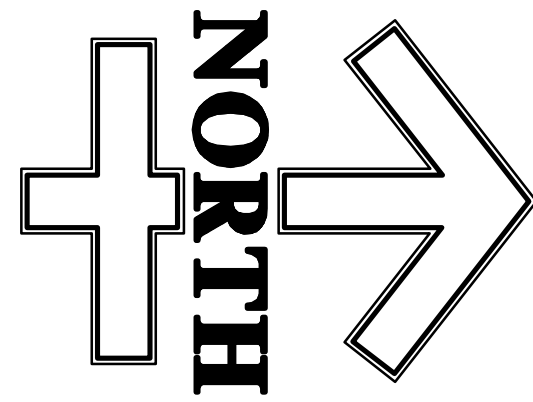
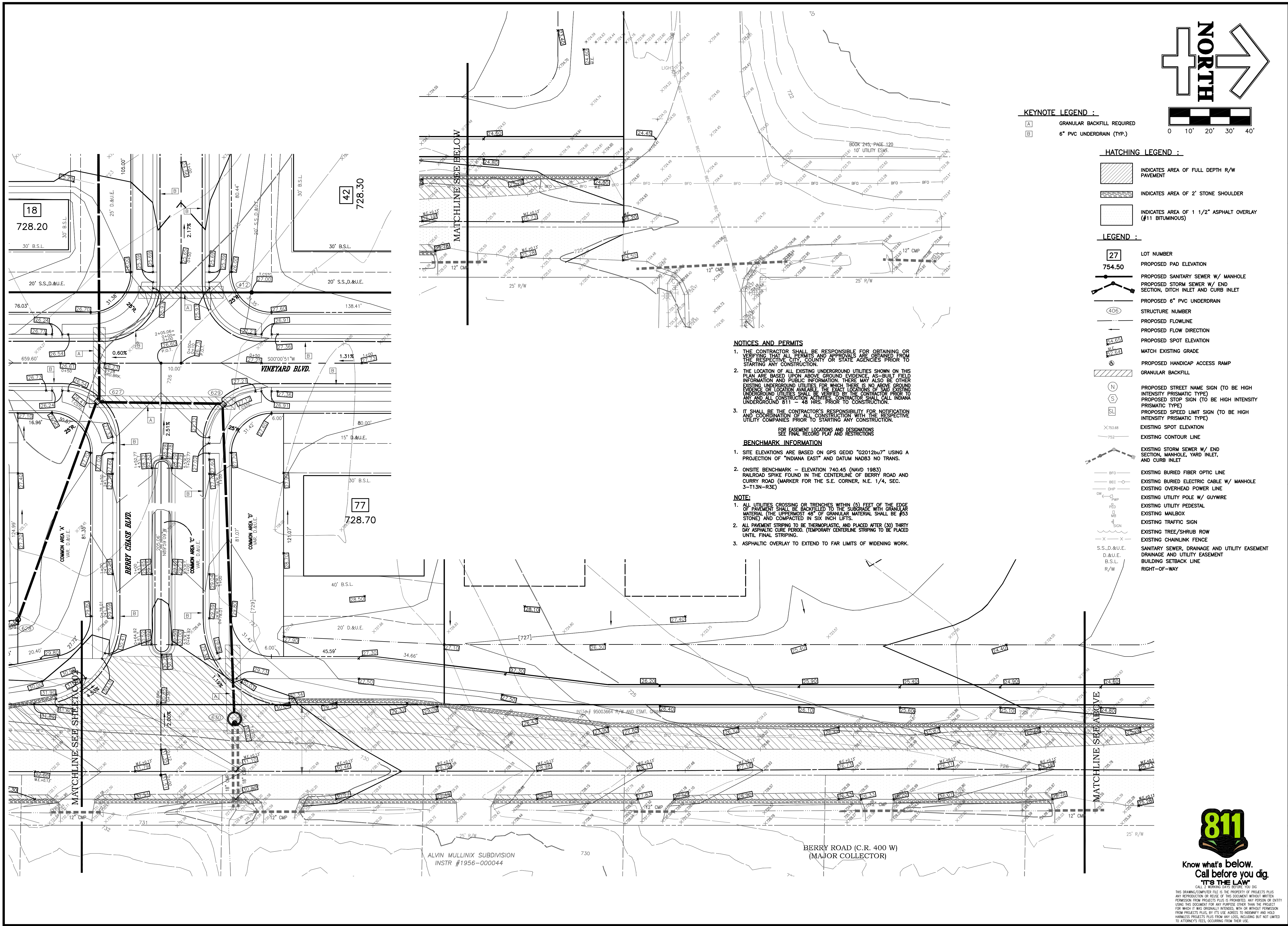
DATE	REVISION	SYMBOL	SCALE	DRAWN	CHECKED	CERTIFIED
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PROJECT: BERRY CHASE - SECTION ONE						
DRAWING: WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA						
TITLE: ENTRANCE DETAIL (GEOMETRIC)						

PROJECTS plus
GREENWOOD SURVEYING COMPANY
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
(317)-882-5003

SEAL
JEFFERY K. SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 19419
STATE OF INDIANA
8/30/22

811
Know what's below.
Call before you dig.
IT'S THE LAW

JOB NUMBER
20019.01
SHEET
C402
DATE
AUGUST 30, 2022



- KEYNOTE LEGEND :**
- A GRANULAR BACKFILL REQUIRED
 - B 6" PVC UNDERDRAIN (TYP.)

- HATCHING LEGEND :**
- INDICATES AREA OF FULL DEPTH R/W PAVEMENT
 - INDICATES AREA OF 2' STONE SHOULDER
 - INDICATES AREA OF 1 1/2" ASPHALT OVERLAY (#11 BITUMINOUS)

- LEGEND :**
- LOT NUMBER
 - PROPOSED PAD ELEVATION
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED 6" PVC UNDERDRAIN
 - STRUCTURE NUMBER
 - PROPOSED FLOWLINE
 - PROPOSED FLOW DIRECTION
 - PROPOSED SPOT ELEVATION
 - MATCH EXISTING GRADE
 - PROPOSED HANDICAP ACCESS RAMP
 - GRANULAR BACKFILL
 - PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOUR LINE
 - EXISTING STORM SEWER W/ END SECTION, MANHOLE, YARD INLET, AND CURB INLET
 - EXISTING BURIED FIBER OPTIC LINE
 - EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
 - EXISTING OVERHEAD POWER LINE
 - EXISTING UTILITY POLE W/ GUYWIRE
 - EXISTING UTILITY PEDESTAL
 - EXISTING MAILBOX
 - EXISTING TRAFFIC SIGN
 - EXISTING TREE/SHRUB ROW
 - EXISTING CHAINLINK FENCE
 - SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - DRAINAGE AND UTILITY EASEMENT
 - BUILDING SETBACK LINE
 - RIGHT-OF-WAY

NOTICES AND PERMITS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
- THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, AS-BUILT FIELD INFORMATION AND PUBLIC INFORMATION. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR LOCATION AVAILABLE. THE EXACT LOCATIONS OF SUCH EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CALL INDIANA UNDERGROUND 811 - 48 HRS. PRIOR TO CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

BENCHMARK INFORMATION

- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
- ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)

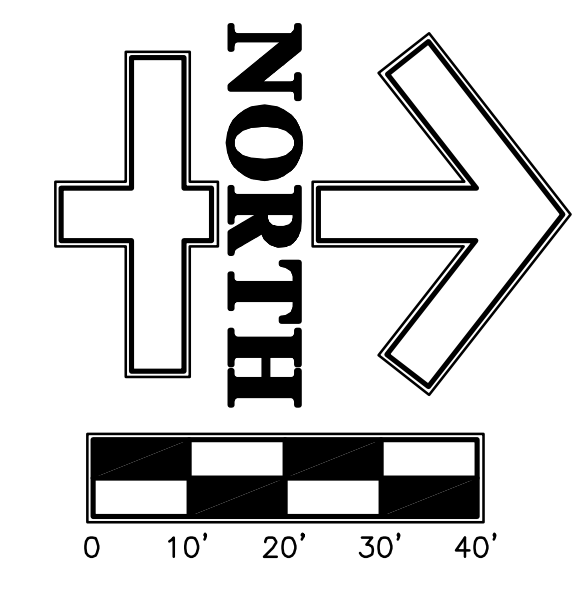
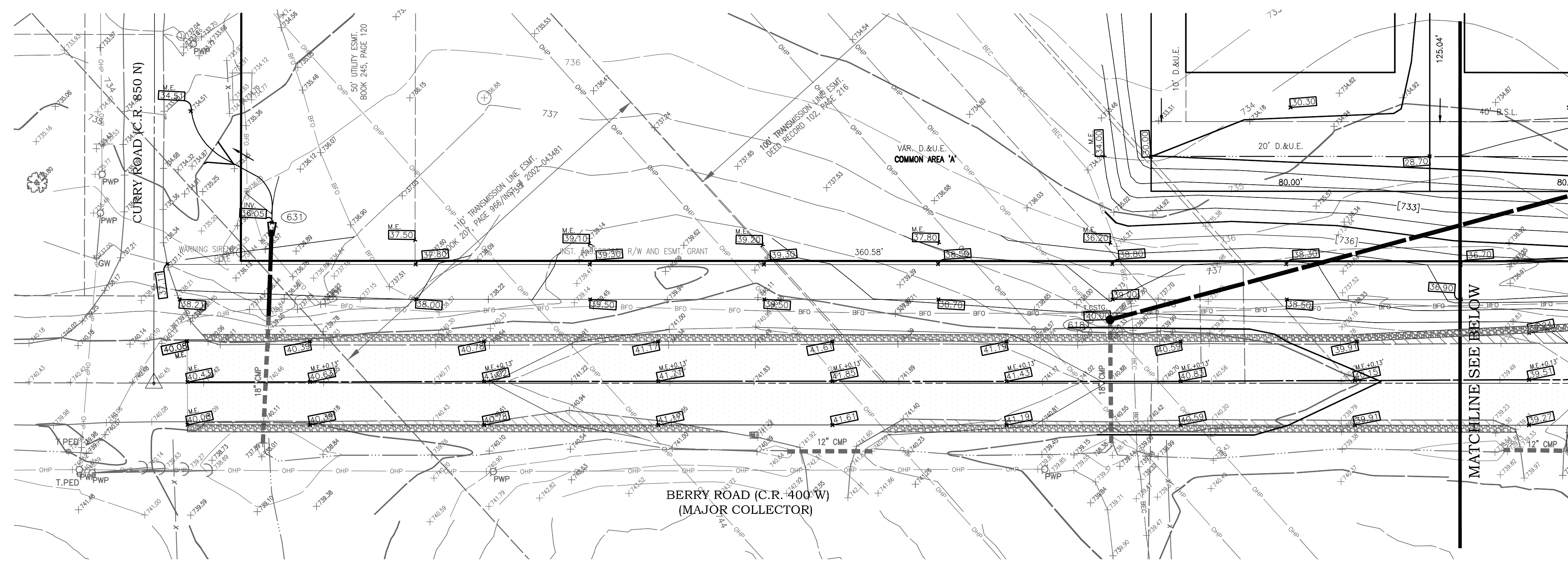
NOTE:

- ALL UTILITIES CROSSING OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SURFACE WITH GRANULAR MATERIAL (THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
- ALL PAVEMENT STRIPING TO BE THERMOPLASTIC AND PLACED AFTER (30) THIRTY DAY ASPHALTIC CURE PERIOD. (TEMPORARY CENTERLINE STRIPING TO BE PLACED UNTIL FINAL STRIPING).
- ASPHALTIC OVERLAY TO EXTEND TO FAR LIMITS OF WIDENING WORK.

DATE	
REVISION	
SYMBOL	
SCALE	1"=20'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	ENTRANCE DETAIL (GRADING)
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003</p>	
SEAL	
<p>JEFFERY K. SMITH No. 19419 STATE OF INDIANA PROFESSIONAL ENGINEER <i>Jeffery K. Smith</i> 8/30/22</p>	
JOB NUMBER	20019.01
SHEET	C403
DATE	AUGUST 30, 2022



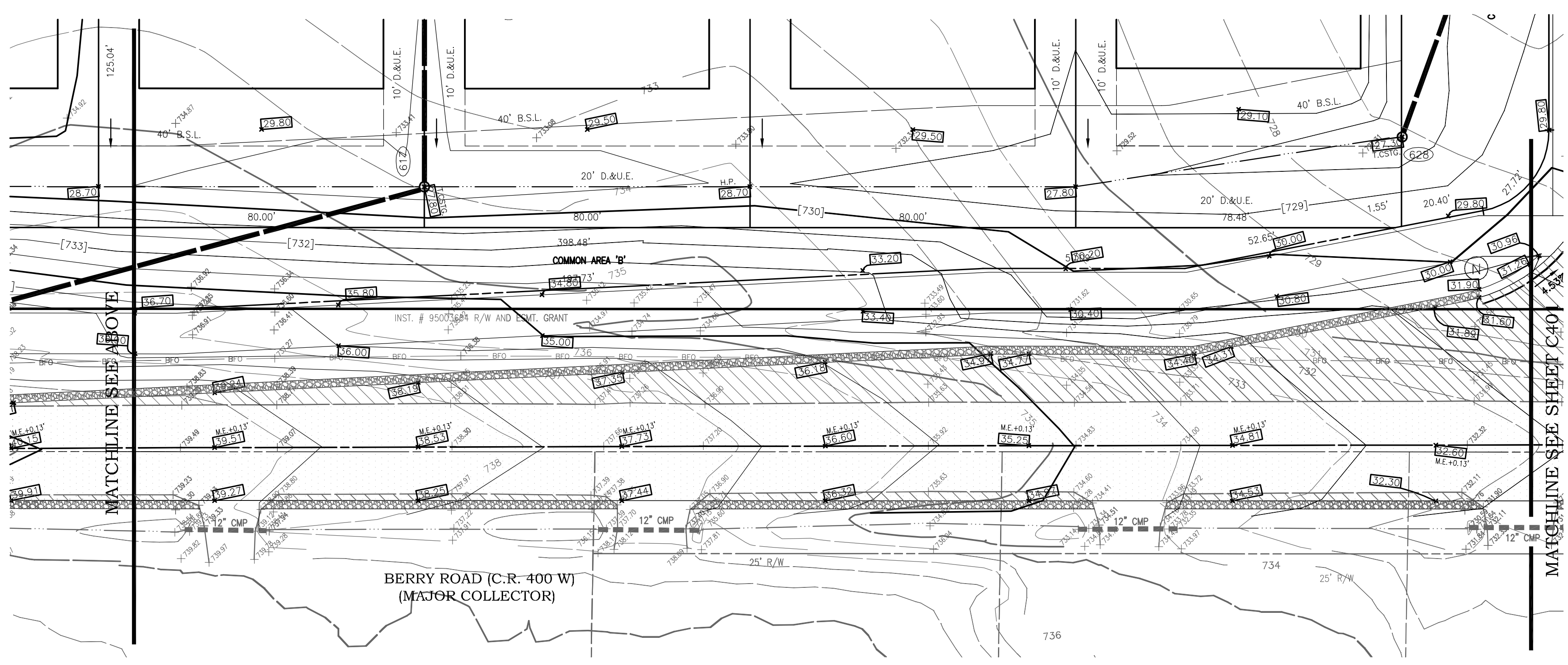
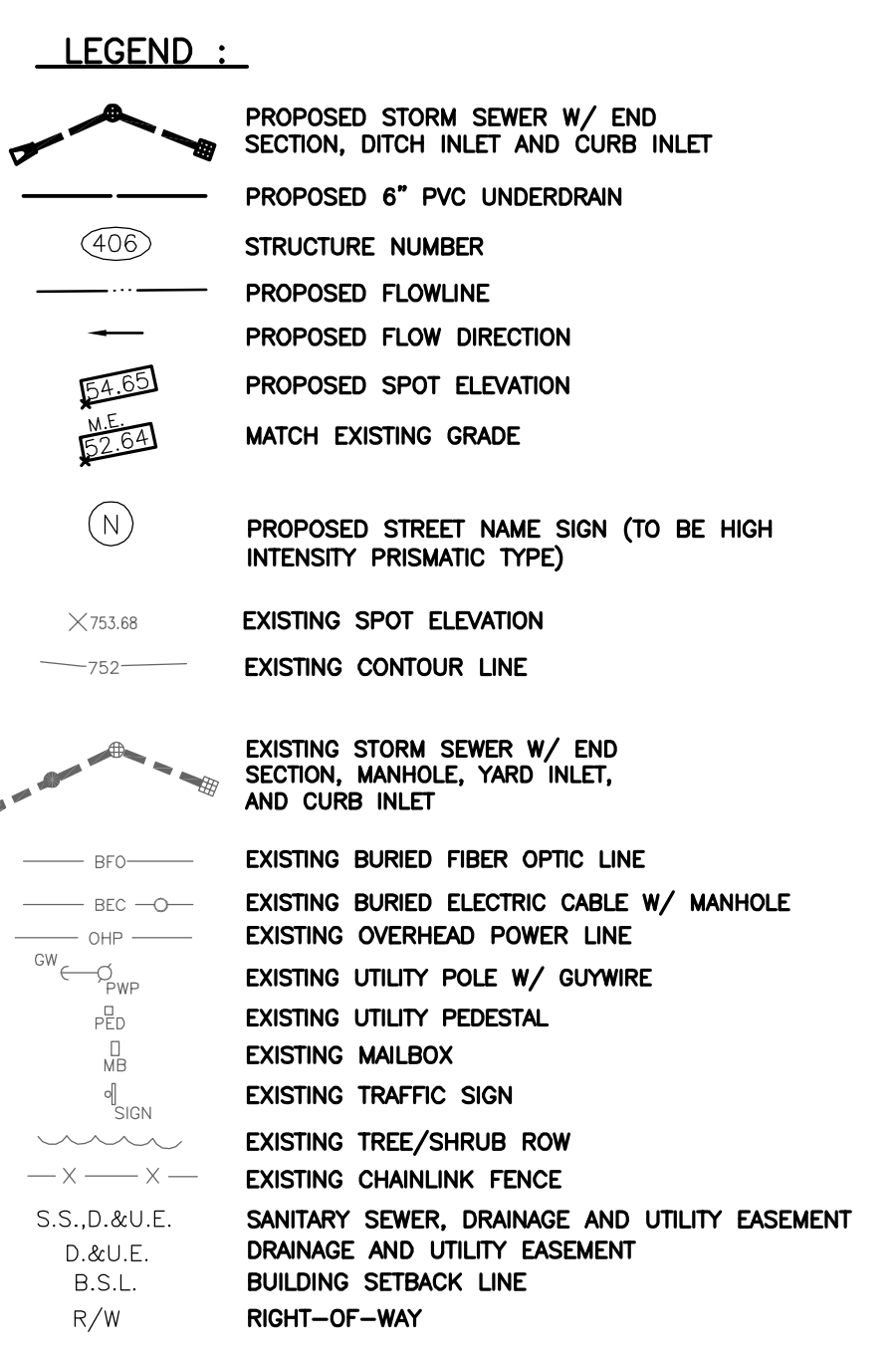
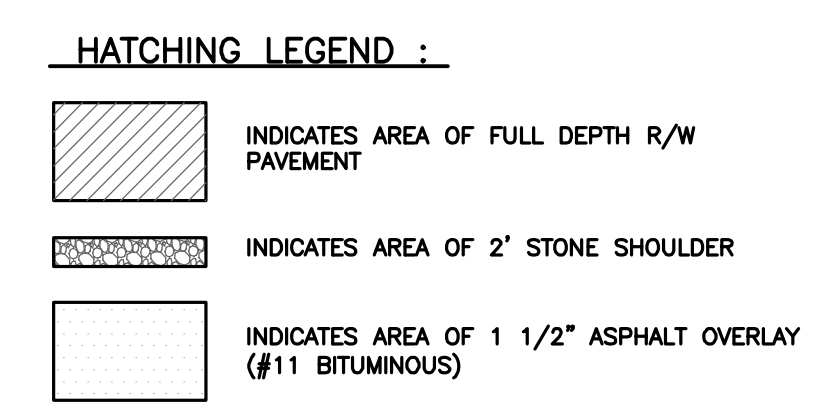
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- BENCHMARK INFORMATION**
- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
 - ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)

- NOTE:**
- ALL UTILITIES CROSSING OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL (THE UPPERMOST 4" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
 - ALL PAVEMENT STRIPING TO BE THERMOPLASTIC, AND PLACED AFTER (30) THIRTY DAY ASPHALTIC CURE PERIOD. (TEMPORARY CENTERLINE STRIPING TO BE PLACED UNTIL FINAL STRIPING.
 - ASPHALTIC OVERLAY TO EXTEND TO FAR LIMITS OF WIDENING WORK.



DATE	REVISION	SYMBOL	SCALE	DRAWN	CHECKED	CERTIFIED
			1"=20'	JPH	JKS	JKS
PROJECT: BERRY CHASE - SECTION ONE						
TITLE: WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA						
ENTRANCE DETAIL (GRADING)						

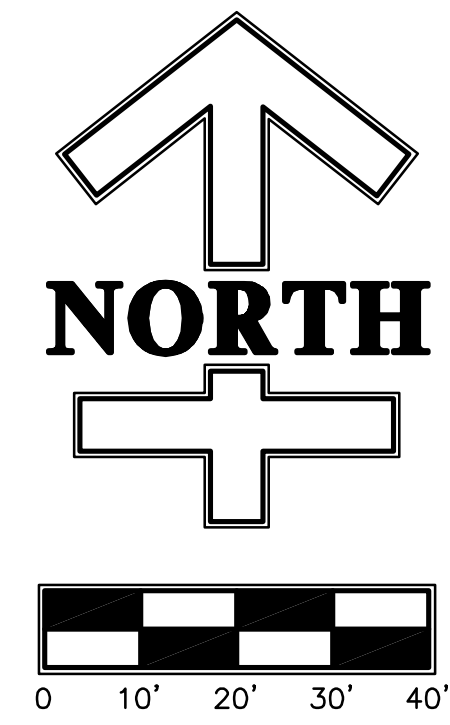
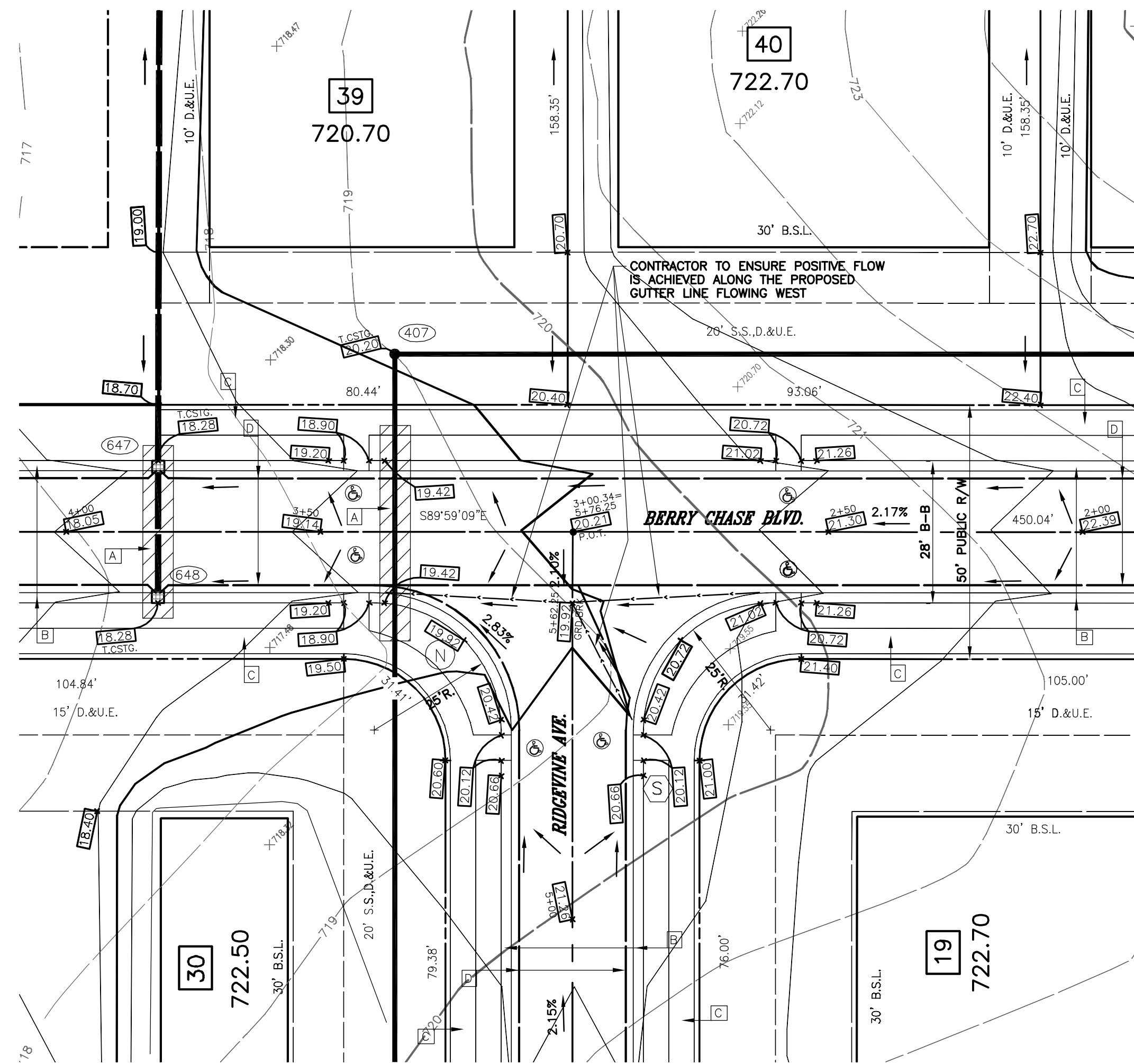
PROJECTS plus
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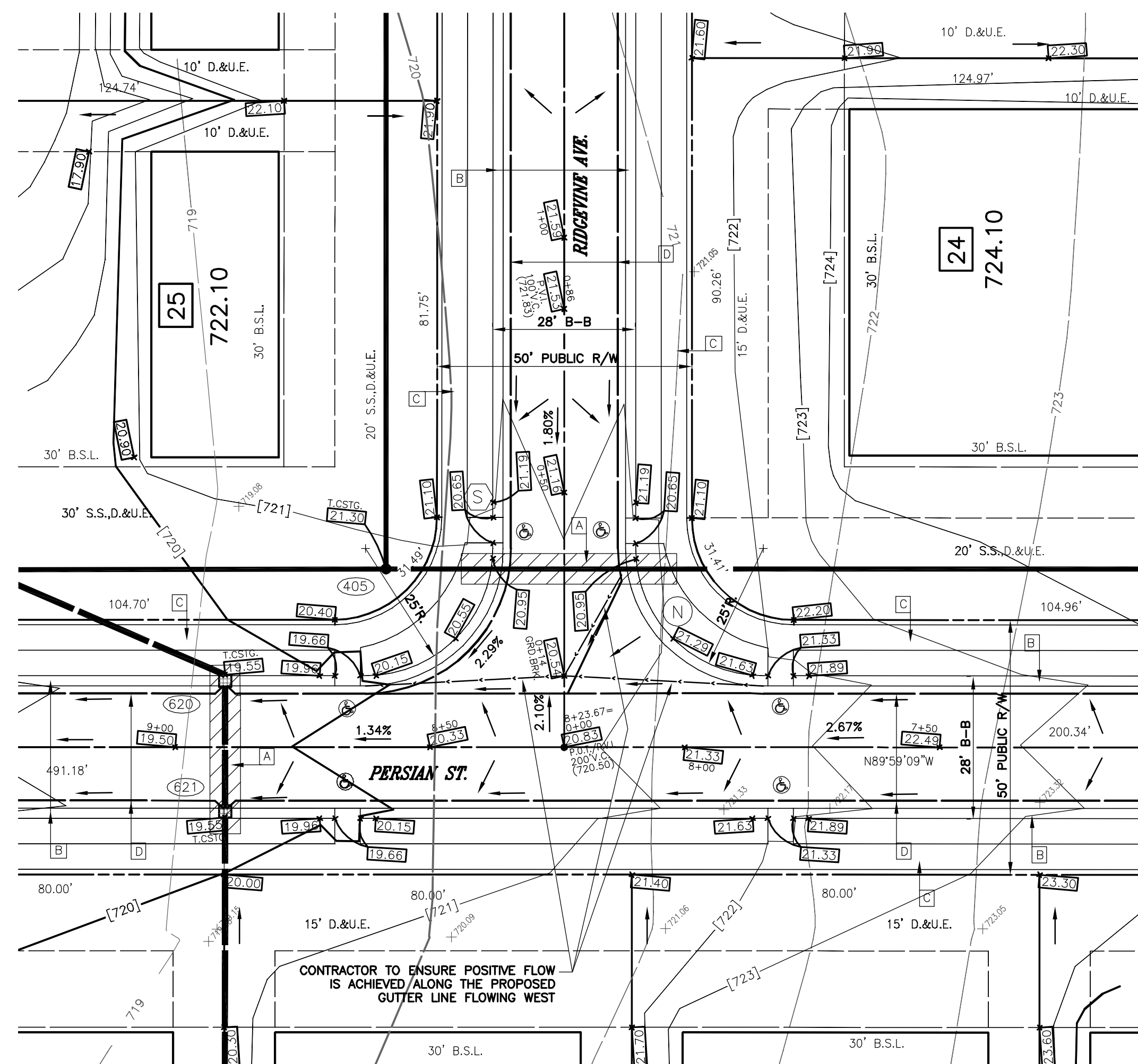
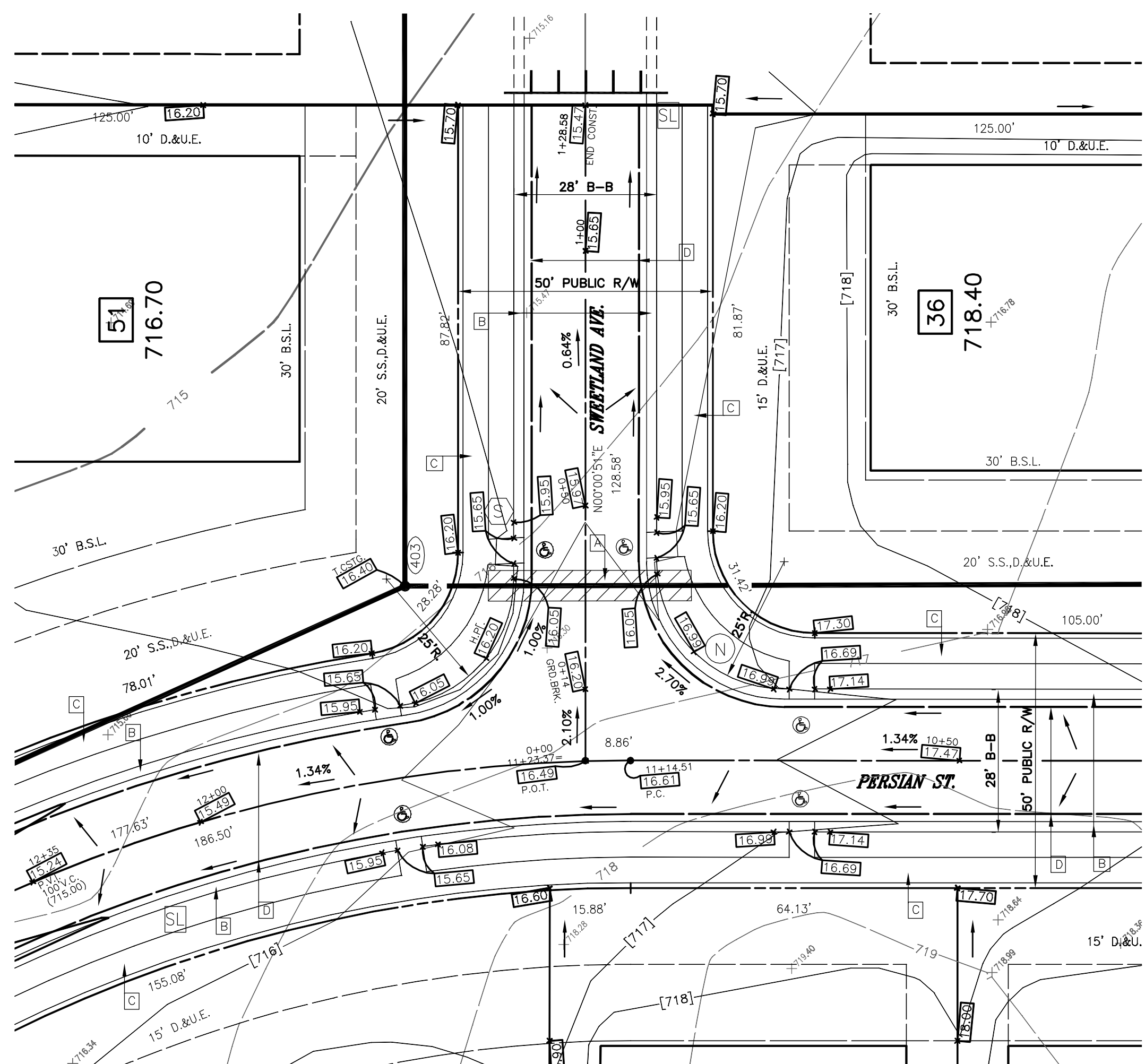


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JOB NUMBER
20019.01
 SHEET
C404
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AUGUST 30, 2022



- LEGEND :**
- 27 LOT NUMBER
 - 754.50 PROPOSED PAD ELEVATION
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED 6" PVC UNDERDRAIN
 - 406 STRUCTURE NUMBER
 - PROPOSED FLOW DIRECTION
 - PROPOSED SPOT ELEVATION
 - MATCH EXISTING GRADE
 - PROPOSED HANDICAP ACCESS RAMP
 - GRANULAR BACKFILL
 - S.S.,D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - D.&U.E. DRAINAGE AND UTILITY EASEMENT
 - B.S.L. BUILDING SETBACK LINE
 - R/W RIGHT-OF-WAY
 - N PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - S PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - SL PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- KEYNOTE LEGEND :**
- A GRANULAR BACKFILL REQUIRED
 - B 2' CONC. ROLL CURB (TYP.)
 - C 5' CONC. SIDEWALK (TYP.)
 - D 6" PVC UNDERDRAIN (TYP.)



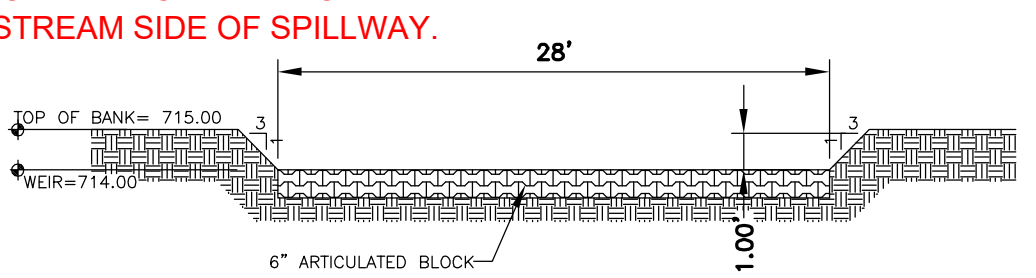
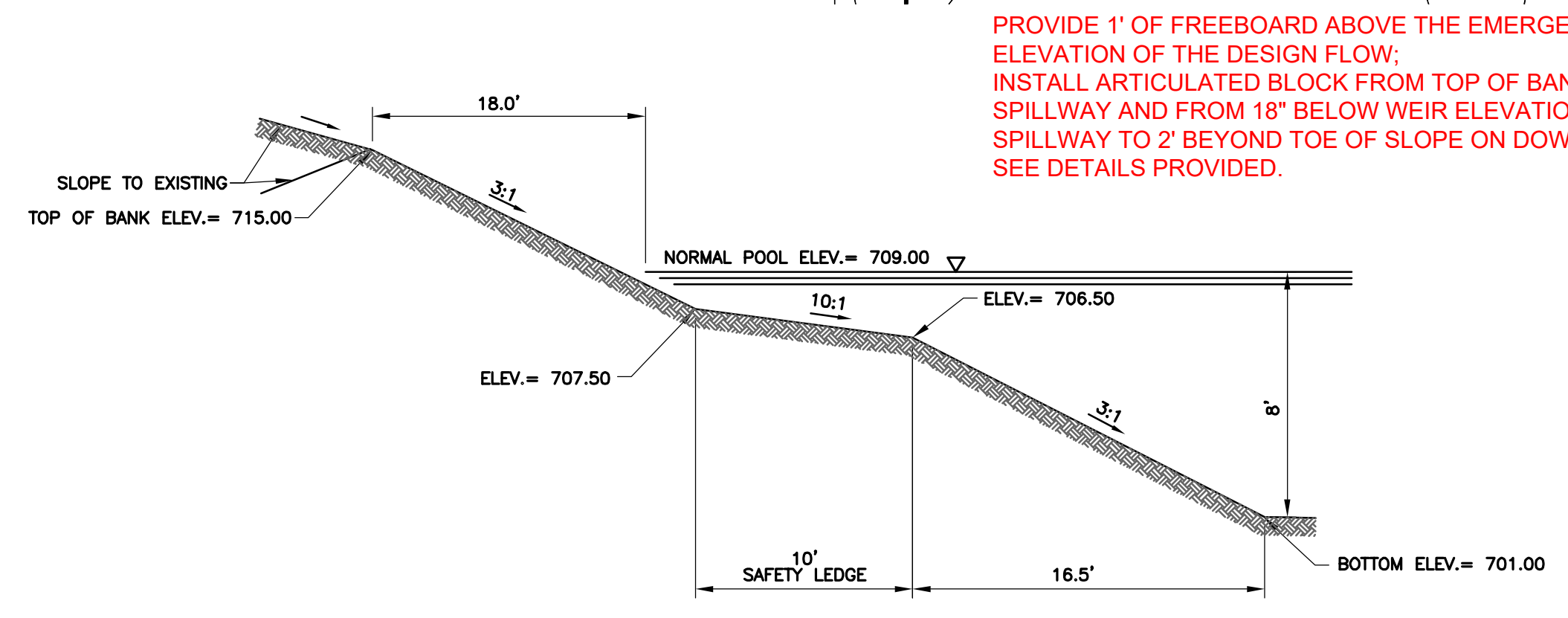
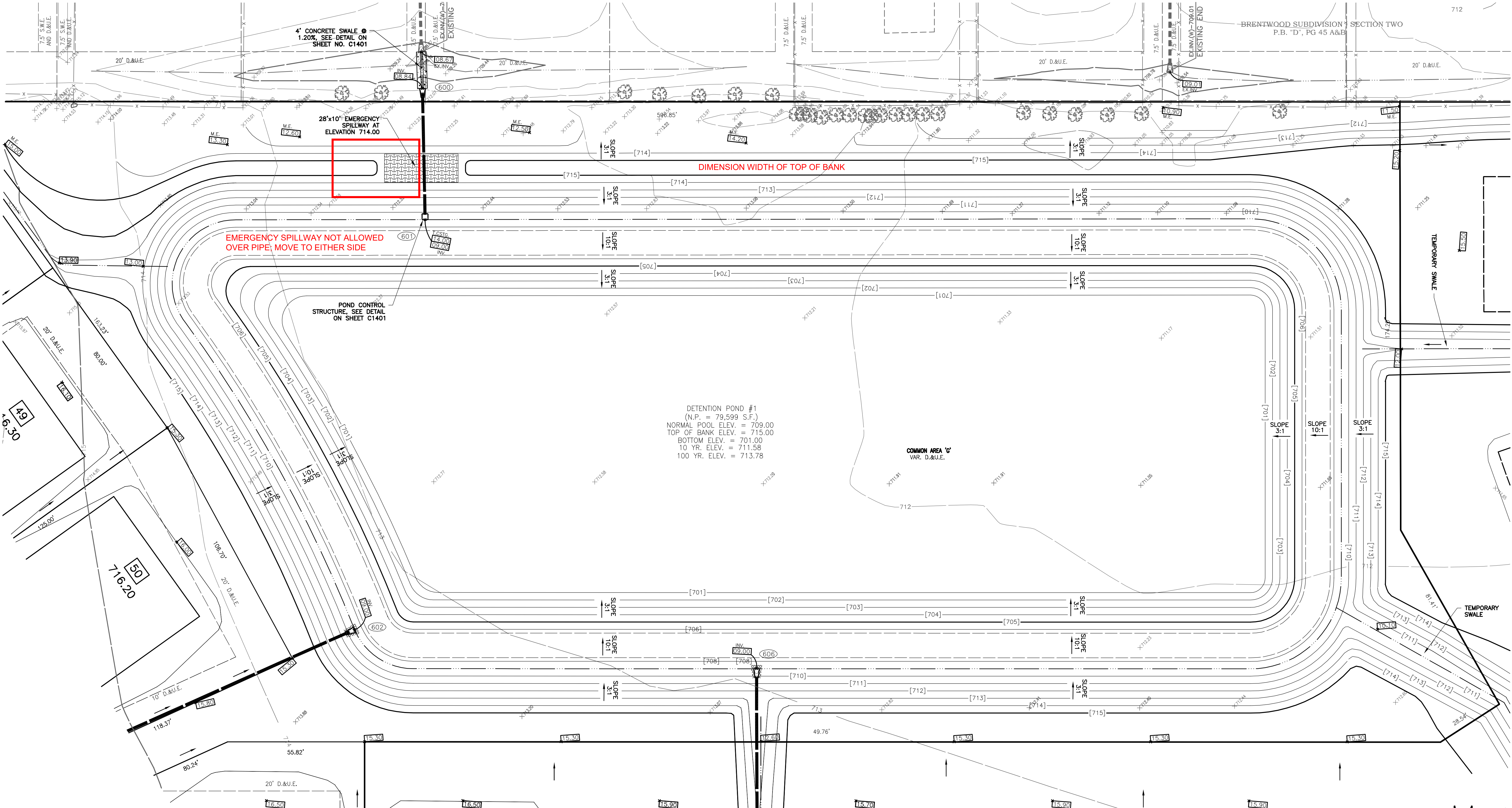
- NOTES**
- ALL UTILITY CROSSINGS OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL AND COMPACTED IN SIX INCH LIFTS.
 - TRAFFIC CONTROL DEVICES SHALL MEET I.M.U.T.C.D. STANDARDS
 - THE PAVING/SUBGRADE CONTRACTOR SHALL NOTIFY THE PLANNING DEPARTMENT (317) 346-4257 AT LEAST 24 HOURS PRIOR TO PROOF ROLL ON THE PROPOSED STREETS.

- NOTICES AND PERMITS**
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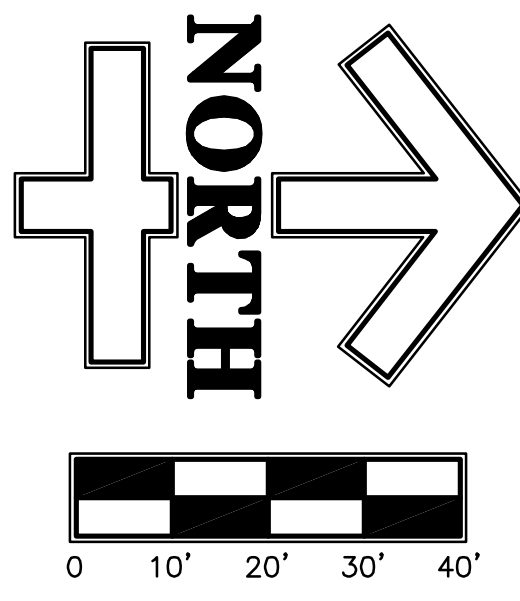
DATE		REVISION		SYMBOL		SCALE	DRAWN	CHECKED	CERTIFIED
						1"=20'	JPH	JKS	JKS
PROJECT		TITLE		PROJECT		DRAWN		CHECKED	
BERRY CHASE - SECTION ONE		INTERSECTION DETAILS		BERRY CHASE - SECTION ONE		JPH		JKS	
WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA		INTERSECTION DETAILS		WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA		JPH		JKS	
PROJECTS <i>plus</i>		GREENWOOD SURVEYING COMPANY		PROJECTS <i>plus</i>		GREENWOOD SURVEYING COMPANY		PROJECTS <i>plus</i>	
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT		1257 Airport Parkway, Suite A - Greenwood, Indiana 46143		SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT		1257 Airport Parkway, Suite A - Greenwood, Indiana 46143		SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT	
(317)-882-5003		(317)-882-5003		(317)-882-5003		(317)-882-5003		(317)-882-5003	
SEAL		SEAL		SEAL		SEAL		SEAL	
JEFFERY K. SMITH		JEFFERY K. SMITH		JEFFERY K. SMITH		JEFFERY K. SMITH		JEFFERY K. SMITH	
REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER	
No. 19419		No. 19419		No. 19419		No. 19419		No. 19419	
INDIANA STATE OF		INDIANA STATE OF		INDIANA STATE OF		INDIANA STATE OF		INDIANA STATE OF	
Jeffery K. Smith		Jeffery K. Smith		Jeffery K. Smith		Jeffery K. Smith		Jeffery K. Smith	
8/30/22		8/30/22		8/30/22		8/30/22		8/30/22	
JOB NUMBER		JOB NUMBER		JOB NUMBER		JOB NUMBER		JOB NUMBER	
20019.01		20019.01		20019.01		20019.01		20019.01	
SHEET		SHEET		SHEET		SHEET		SHEET	
C405		C405		C405		C405		C405	
DATE		DATE		DATE		DATE		DATE	
AUGUST 30, 2022		AUGUST 30, 2022		AUGUST 30, 2022		AUGUST 30, 2022		AUGUST 30, 2022	



NOTE:
DUE TO THE SOIL CONDITIONS CONTRACTOR SHALL SEAL THE PROPOSED DETENTION POND WITH A 2 FT. THICK LAYER OF COMPACTED (90-92 %) CLAY MATERIAL (OR APPROVED SUITABLE MATERIAL) ALONG THE BASE AND SIDES. THE MATERIAL, METHOD OF CONSTRUCTION OR ANY ALTERNATE METHOD TO SEAL THE POND SHALL BE APPROVED BY THE ENGINEER.

- NOTES**
- ALL UTILITY CROSSINGS OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL AND COMPACTED IN SIX INCH LIFTS.
 - TRAFFIC CONTROL DEVICES SHALL MEET I.M.U.T.C.D. STANDARDS
 - THE PAVING/SUBGRADE CONTRACTOR SHALL NOTIFY THE PLANNING DEPARTMENT (317) 346-4350 AT LEAST 24 HOURS PRIOR TO PLOP ROLL ON THE PROPOSED STREETS.
- BENCHMARK INFORMATION**
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 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.
- FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAT AND RESTRICTIONS

- LEGEND :**
- (406) PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - STRUCTURE NUMBER
 - PROPOSED FLOWLINE
 - PROPOSED FLOW DIRECTION
 - PROPOSED SPOT ELEVATION
 - MATCH EXISTING GRADE
 - (756) PROPOSED CONTOUR LINE
 - X753.68 EXISTING TREE/SHRUB ROW
 - 752 EXISTING SPOT ELEVATION
 - EXISTING CONTOUR LINE
 - EXG EXISTING BURIED GAS MAIN AND VALVE
 - BTC EXISTING BURIED TELEPHONE CABLE W/ MANHOLE
 - BEC EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
 - CHP EXISTING OVERHEAD POWER LINE
 - EXISTING UTILITY POLE W/ GUYWIRE




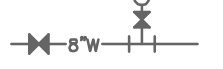

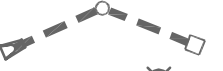

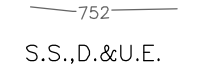
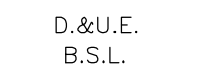





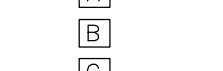
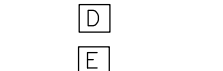







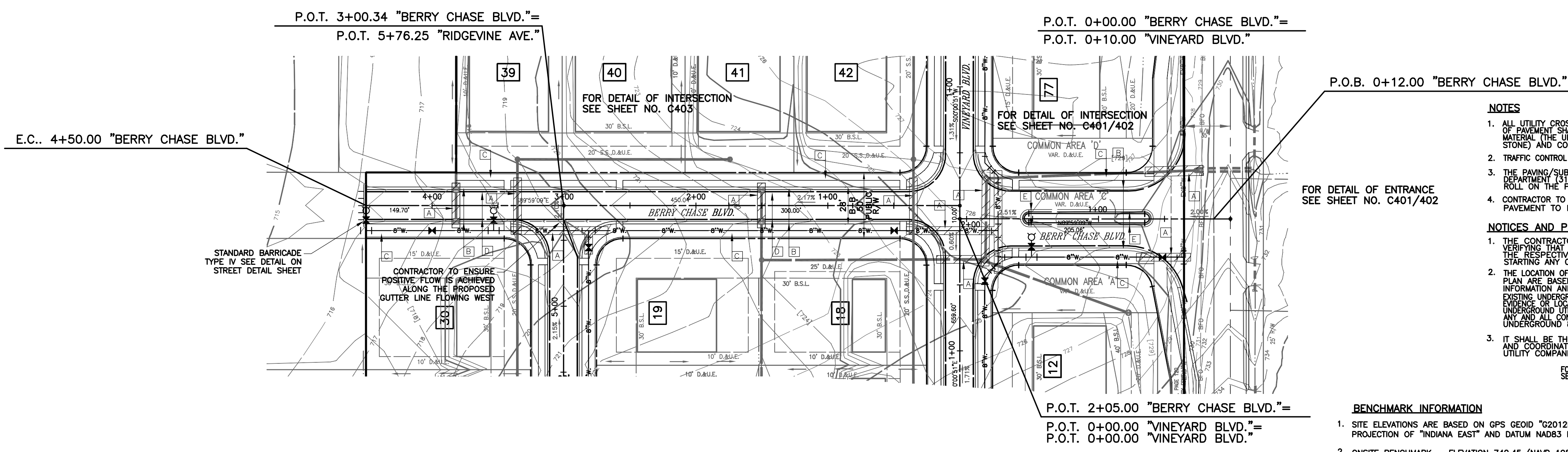
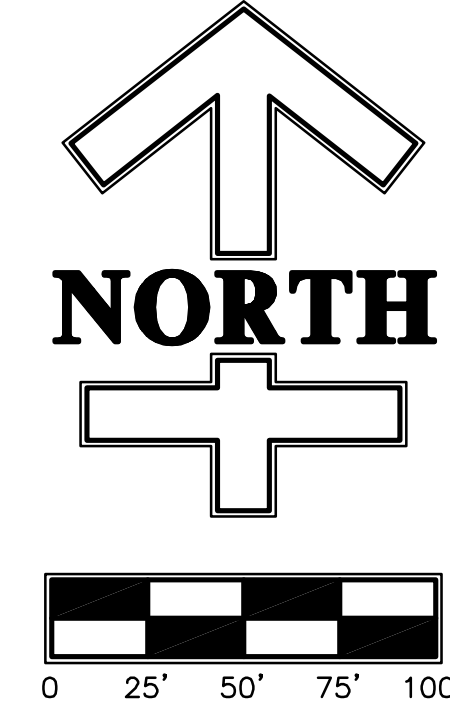
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SYMBOL	
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CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	DETENTION POND DETAIL
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003</p>	
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JOB NUMBER	20019.01
SHEET	C406
DATE	AUGUST 30, 2022

LEGEND :

-  LOT NUMBER
 -  PROPOSED SANITARY SEWER W/ MANHOLE
 -  PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 -  PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
 -  PROPOSED 6" PVC UNDERDRAIN
 -  EXISTING SANITARY SEWER W/ MANHOLE
 -  EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 -  EXISTING WATER LINE W/ FIRE HYDRANT
 -  EXISTING CONTOUR LINE
 -  SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 -  DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE
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 -  GRANULAR BACKFILL
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 -  PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- KEYNOTE LEGEND :**
-  GRANULAR BACKFILL REQUIRED
 -  2' CONC. ROLL CURB (TYP.)
 -  5' CONC. SIDEWALK (TYP.)
 -  6" PVC UNDERDRAIN (TYP.)
 -  6" CONC. CHAIRBACK CURB



- NOTES**
- ALL UTILITY CROSSINGS OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL (THE UPPERMOST 4" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
 - TRAFFIC CONTROL DEVICES SHALL MEET CURRENT I.M.U.T.C.D. STANDARDS
 - THE PAVING/SUBGRADE CONTRACTOR SHALL NOTIFY THE ENGINEERING DEPARTMENT (317) 346-4360 AT LEAST 24 HOURS PRIOR TO PROOF ROLL ON THE PROPOSED STREETS.
 - CONTRACTOR TO VERIFY EXACT LOCATION AND ELEVATION OF EXISTING PAVEMENT TO INSURE A SMOOTH AND CONTINUOUS TRANSITION.

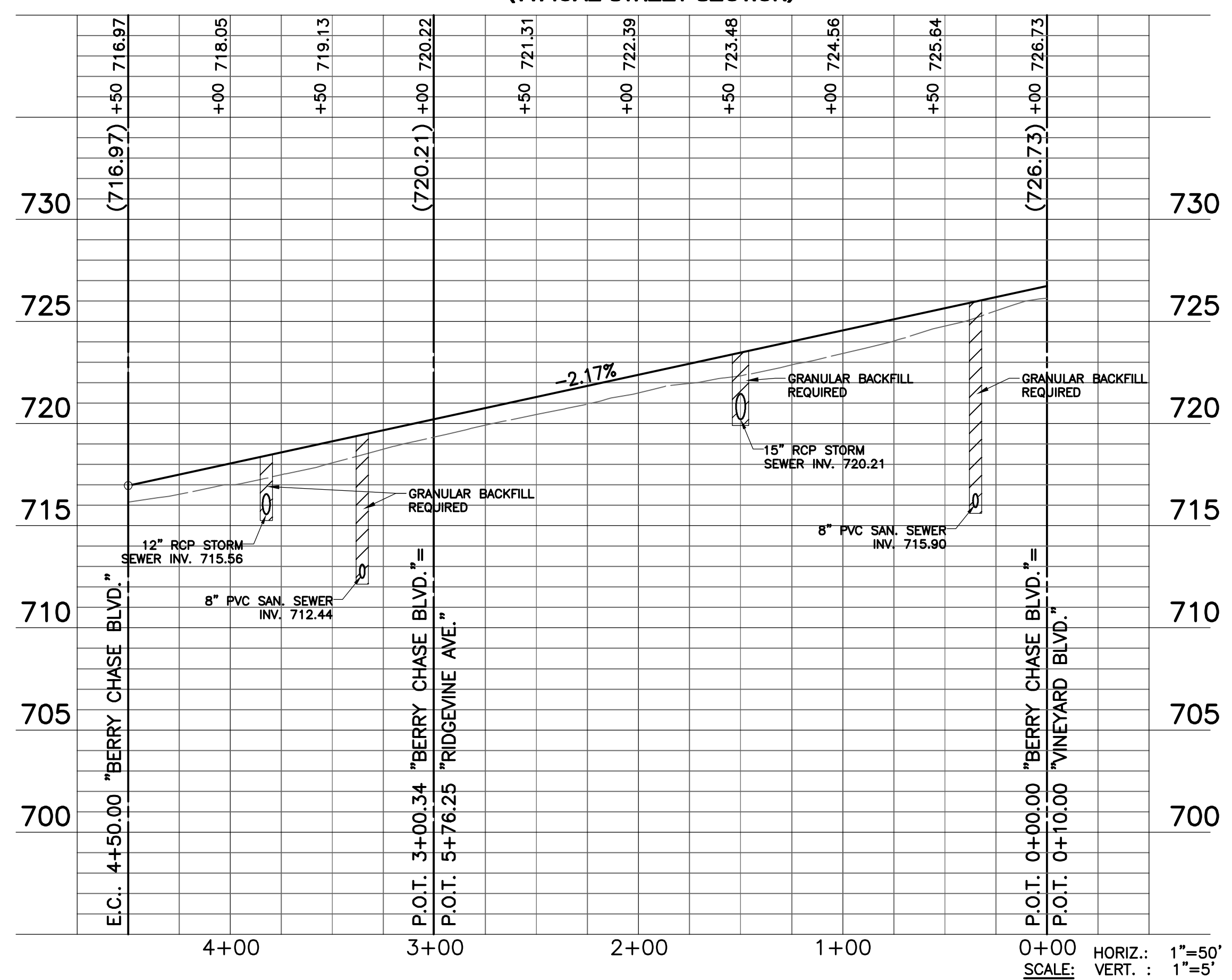
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 - THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, AS-BUILT FIELD INFORMATION AND PUBLIC INFORMATION. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR LOCATION AVAILABLE. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CALL INDIANA UNDERGROUND 811 - 48 HRS. PRIOR TO CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

- BENCHMARK INFORMATION**
- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
 - ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)

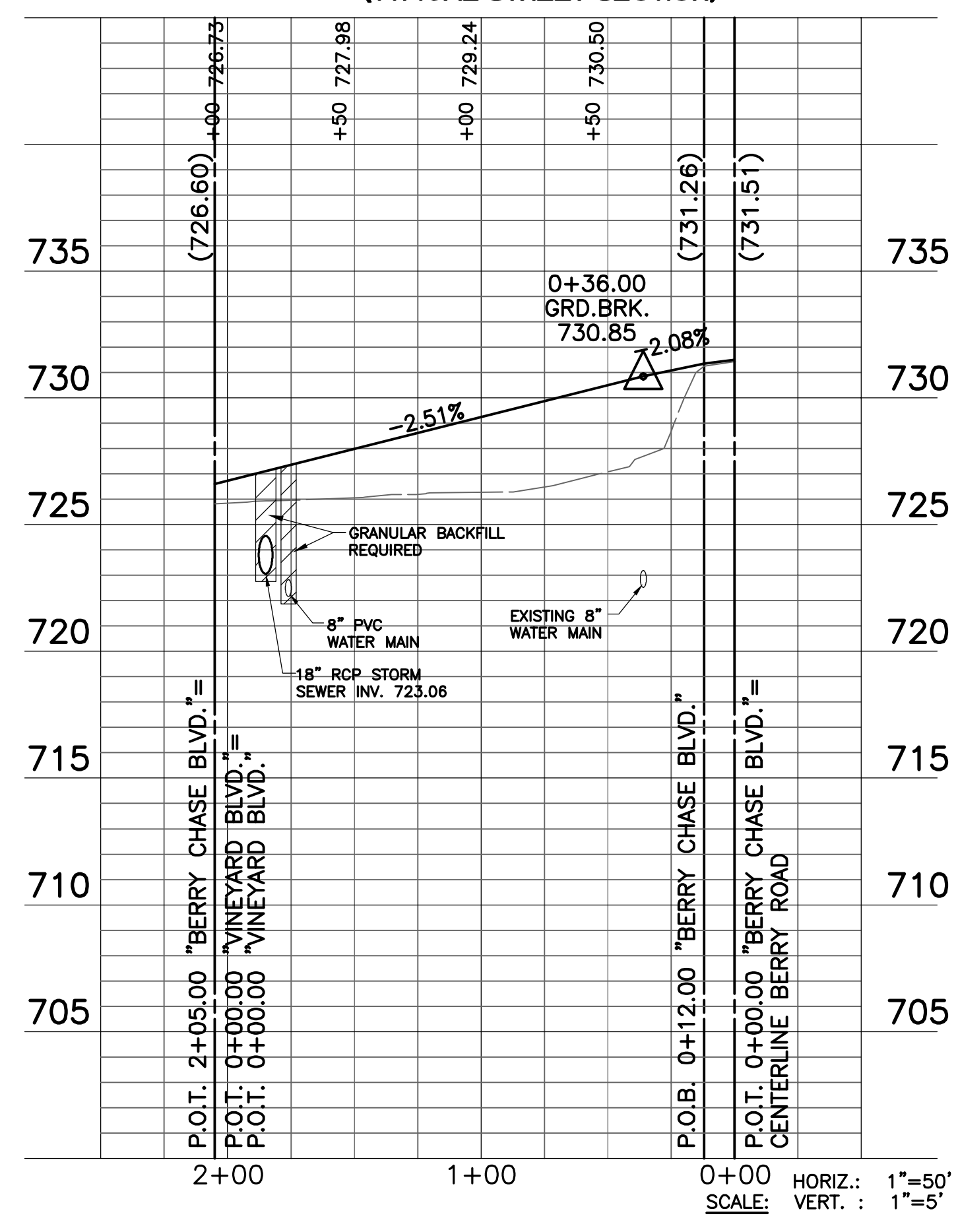



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"BERRY CHASE BLVD." (TYPICAL STREET SECTION)

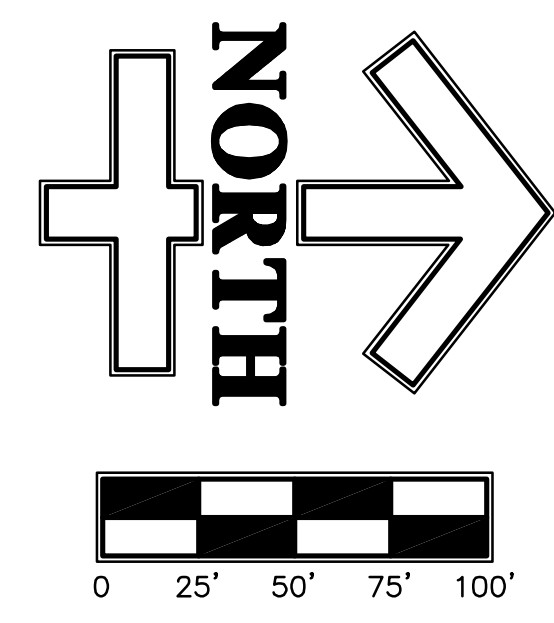
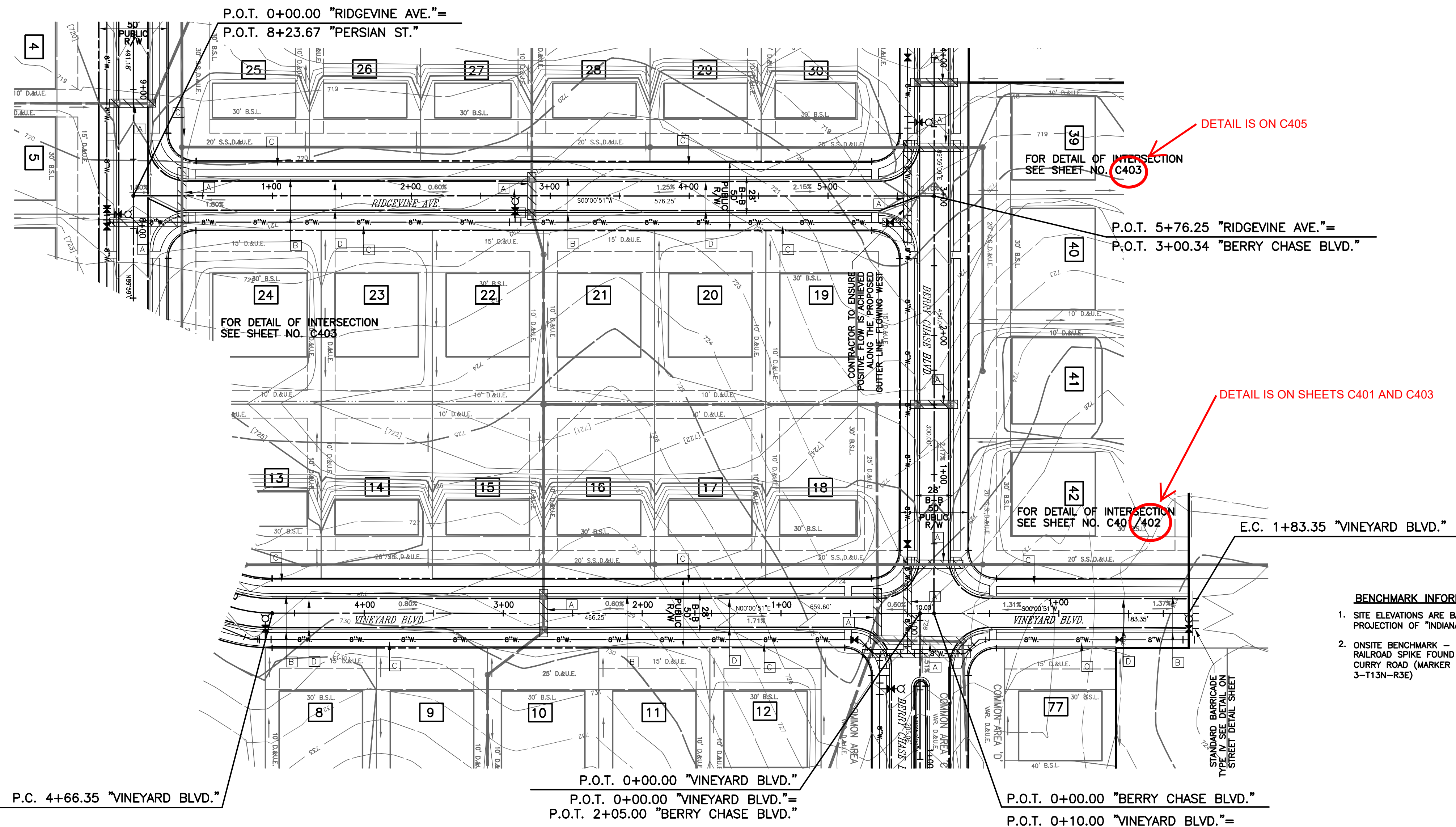


"BERRY CHASE BLVD." (TYPICAL STREET SECTION)



DATE		REVISION		SYMBOL		SCALE		PROJECT	
								BERRY CHASE - SECTION ONE	STREET PLAN AND PROFILE
				AS SHOWN	DRAWN	CHECKED	CERTIFIED	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA	TITLE
				JPH	JKS	JKS	JKS		
PROJECTS plus									GREENWOOD SURVEYING COMPANY
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317) 882-5003									SEAL
									JOB NUMBER 20019.01 SHEET
C501									DATE AUGUST 30, 2022

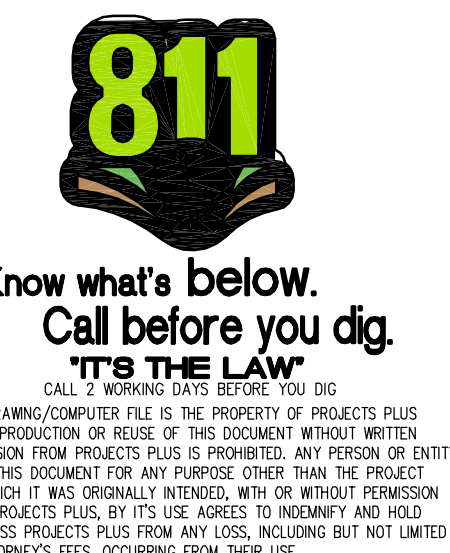
- LEGEND :**
- LOT NUMBER
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
 - PROPOSED 6" PVC UNDERDRAIN
 - EXISTING SANITARY SEWER W/ MANHOLE
 - EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - EXISTING WATER LINE W/ FIRE HYDRANT
 - EXISTING CONTOUR LINE
 - SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE
 - PROPOSED HANDICAP ACCESS RAMP
 - GRANULAR BACKFILL
 - PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- KEYNOTE LEGEND :**
- A** GRANULAR BACKFILL REQUIRED
 - B** 2' CONC. ROLL CURB (TYP.)
 - C** 5' CONC. SIDEWALK (TYP.)
 - D** 6" PVC UNDERDRAIN (TYP.)



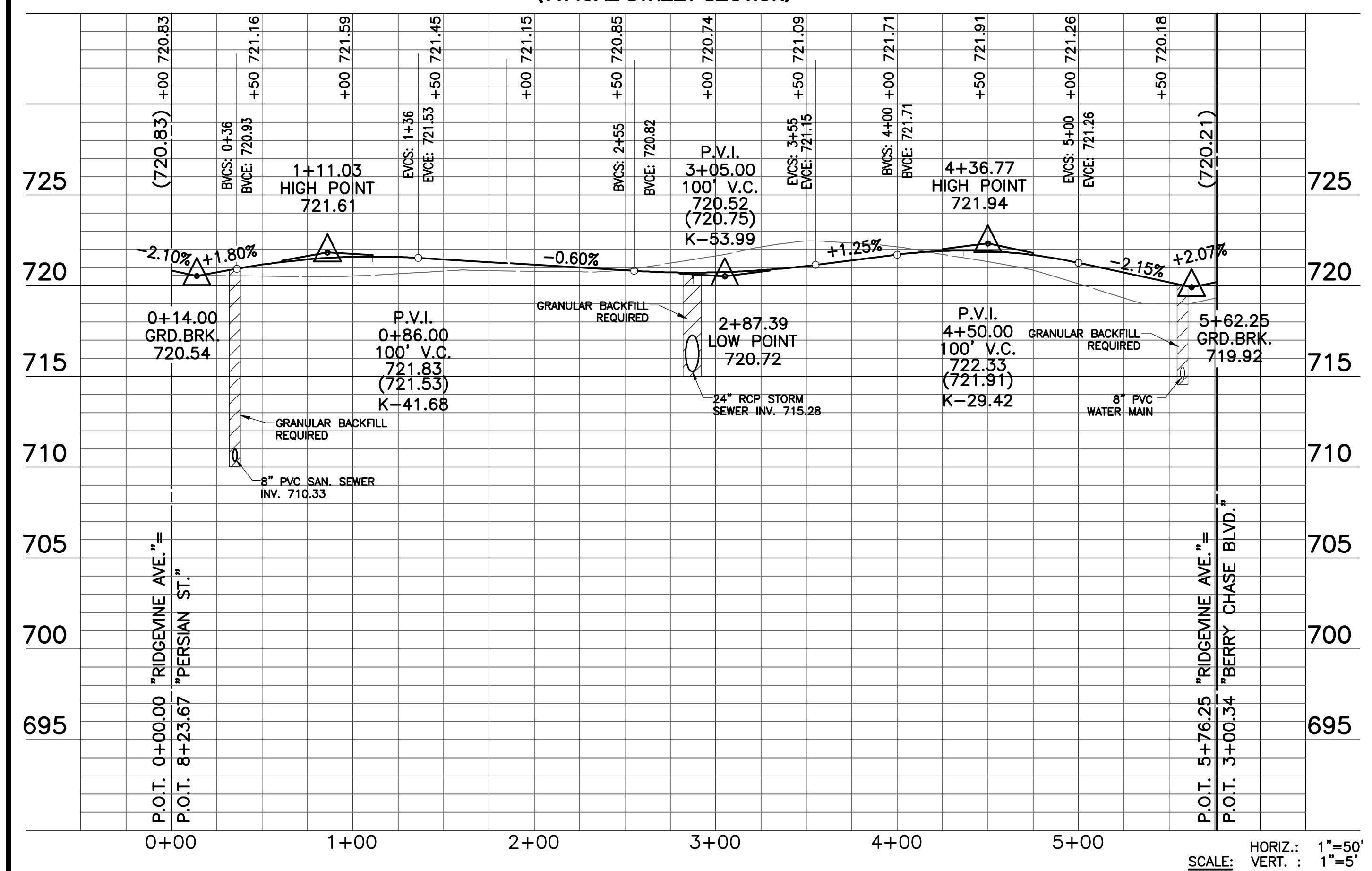
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 - TRAFFIC CONTROL DEVICES SHALL MEET CURRENT I.M.U.T.C.D. STANDARDS
 - THE PAVING/SUBGRADE CONTRACTOR SHALL NOTIFY THE ENGINEERING DEPARTMENT (317) 348-4360 AT LEAST 24 HOURS PRIOR TO PROOF ROLL ON THE PROPOSED STREETS.
 - CONTRACTOR TO VERIFY EXIST LOCATION AND ELEVATION OF EXISTING PAVEMENT TO INSURE A SMOOTH AND CONTINUOUS TRANSITION.

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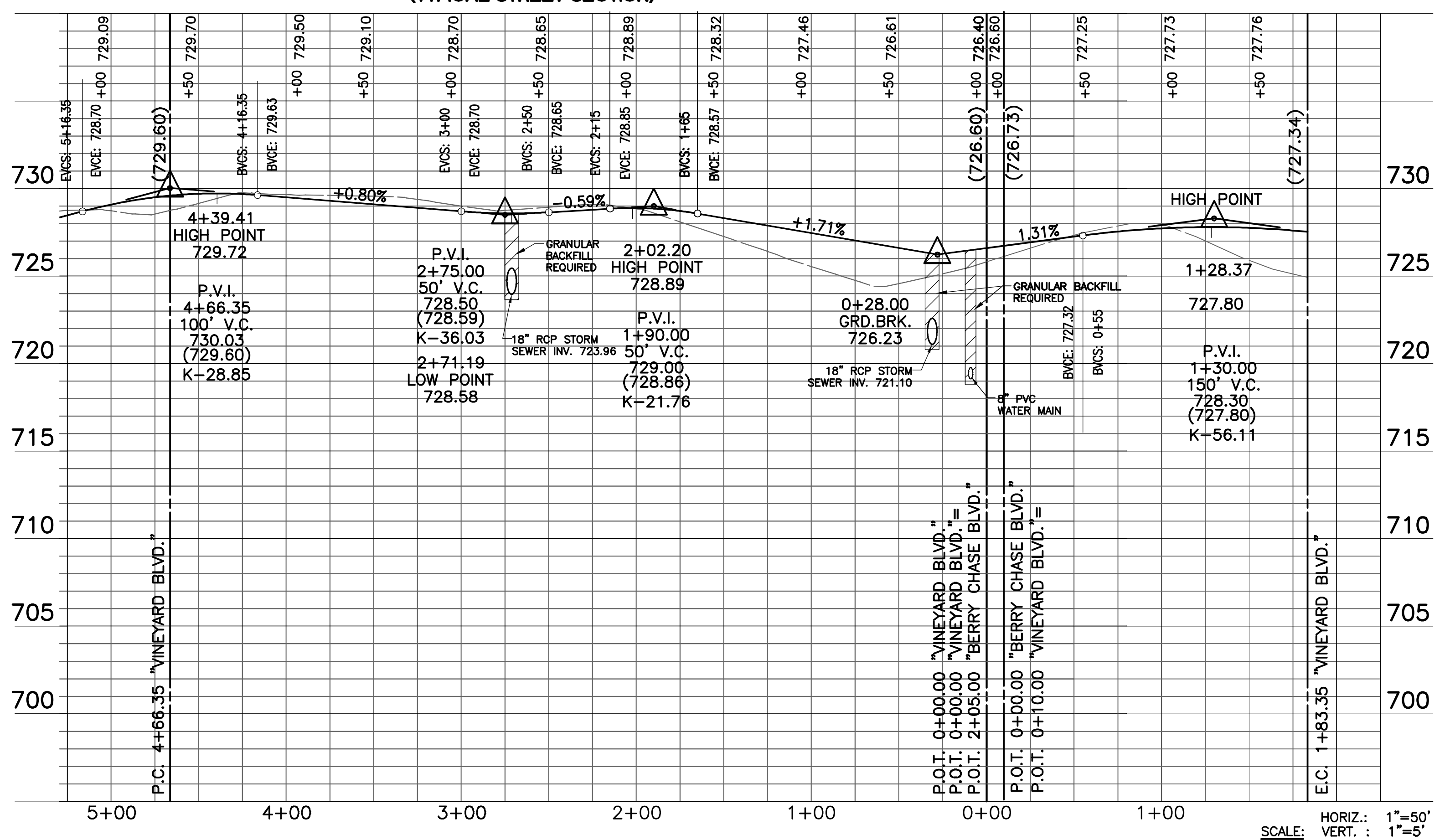
- BENCHMARK INFORMATION**
- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
 - ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)



"RIDGEVINE AVE." (TYPICAL STREET SECTION)



"VINEYARD BLVD." (TYPICAL STREET SECTION)



DATE: _____

REVISION: _____

SYMBOL: _____

SCALE: AS SHOWN

PROJECT: BERRY CHASE - SECTION ONE

TITLE: WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA

DESIGNED BY: JPH

CHECKED BY: JKS

CERTIFIED BY: JKS

STREET PLAN AND PROFILE

PROJECTS plus

GREENWOOD SURVEYING COMPANY

SEAL: LEFFERY K. SMITH, REGISTERED PROFESSIONAL ENGINEER, No. 19419, STATE OF INDIANA

Signature: Jeffrey K. Smith 8/30/22

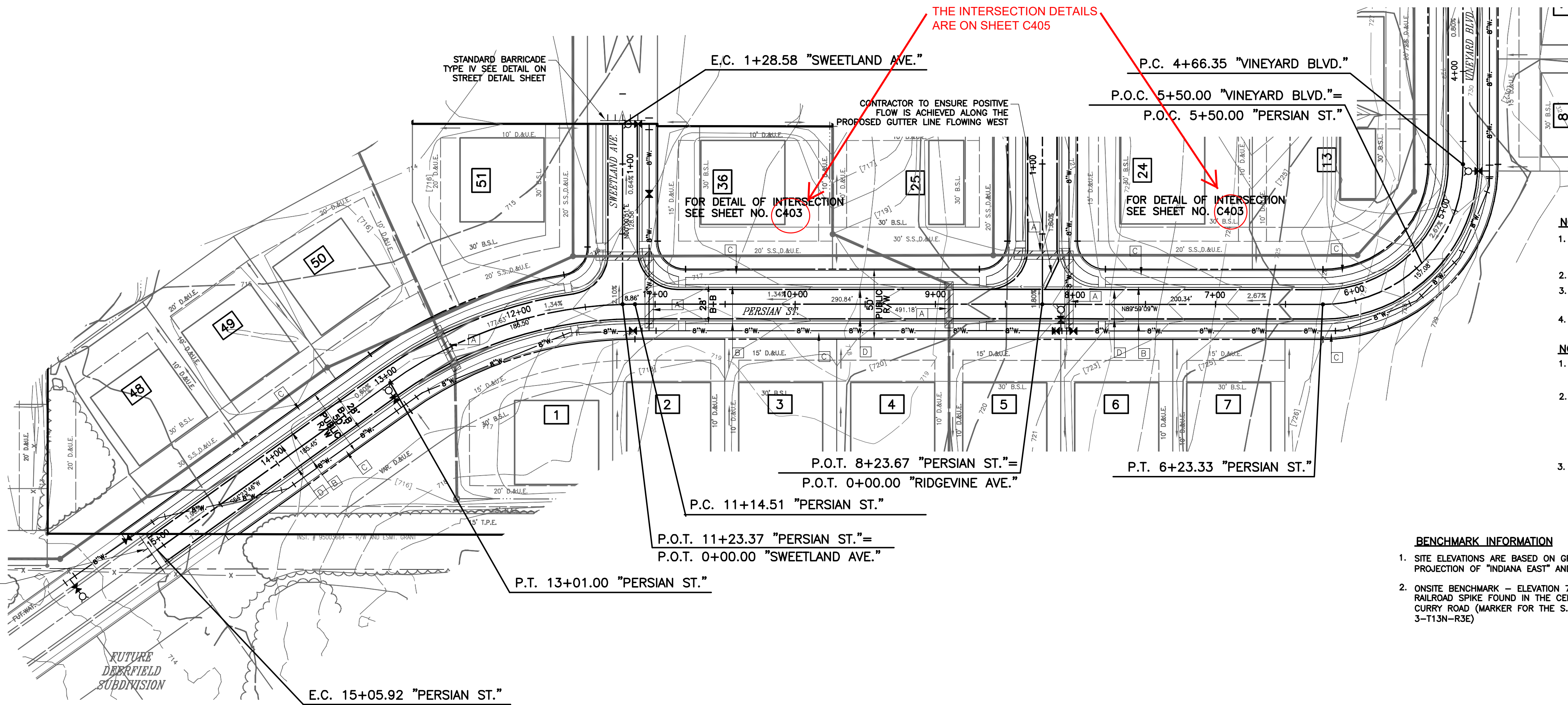
JOB NUMBER: 20019.01

SHEET: C502

DATE: AUGUST 30, 2022

- LEGEND :**
- [27] LOT NUMBER
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
 - PROPOSED 6" PVC UNDERDRAIN
 - EX. SAN. — EXISTING SANITARY SEWER W/ MANHOLE
 - EX. ST. — EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - EX. W. — EXISTING WATER LINE W/ FIRE HYDRANT
 - EX. C. — EXISTING CONTOUR LINE
 - S.S.D.&U.E. — SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - D.&U.E. — DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE
 - ⊙ — PROPOSED HANDICAP ACCESS RAMP
 - ▨ — GRANULAR BACKFILL
 - Ⓝ — PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - Ⓢ — PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - Ⓛ — PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
- KEYNOTE LEGEND :**
- A GRANULAR BACKFILL REQUIRED
 - B 2' CONC. ROLL CURB (TYP.)
 - C 5' CONC. SIDEWALK (TYP.)
 - D 6" PVC UNDERDRAIN (TYP.)

STANDARD BARRICADE TYPE IV SEE DETAIL ON STREET DETAIL SHEET



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FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAN AND RESTRICTIONS

BENCHMARK INFORMATION

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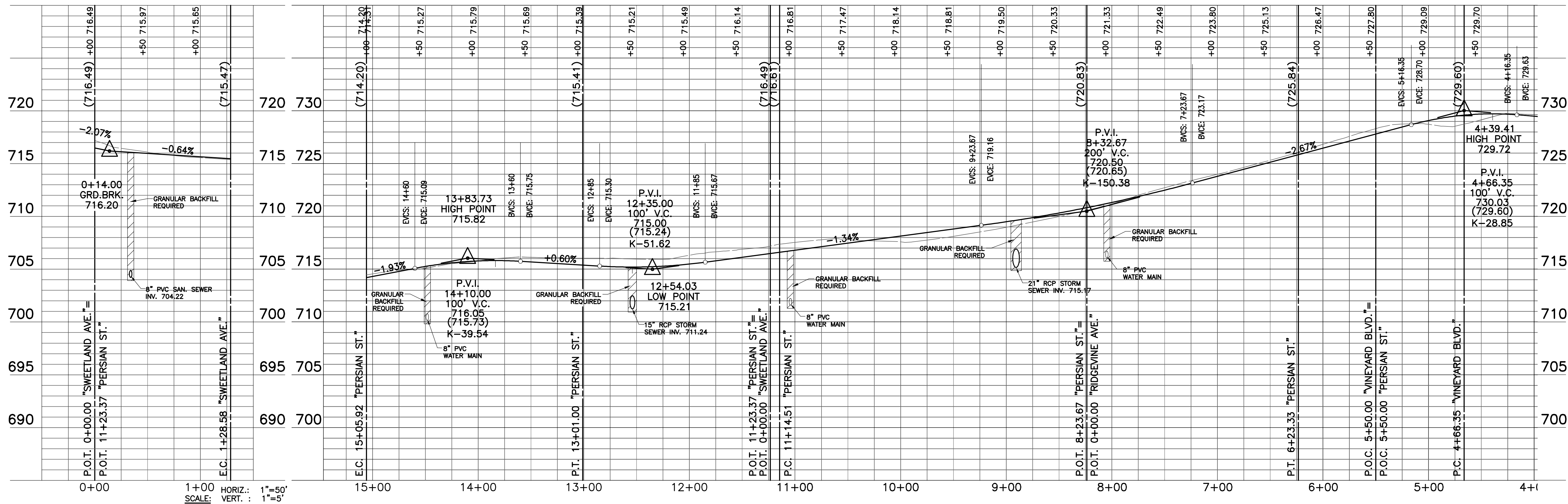


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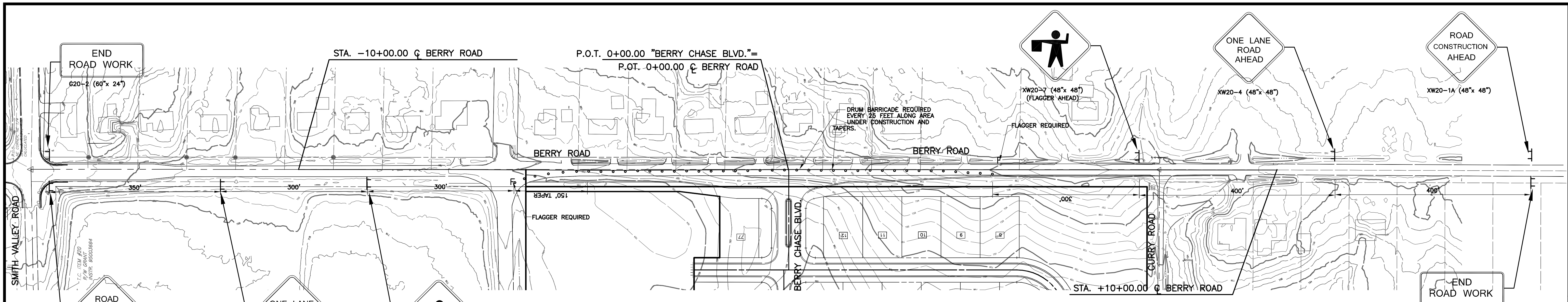
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"SWEETLAND AVE." (TYPICAL STREET SECTION)

"PERSIAN ST." (TYPICAL STREET SECTION)



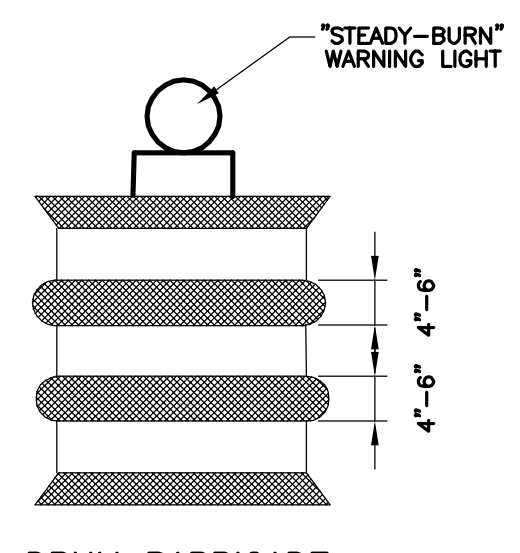
DATE	
REVISION	
SYMBOL	
SCALE	AS SHOWN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	STREET PLAN AND PROFILE
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>SEAL JEFFERY K. SMITH REGISTERED PROFESSIONAL ENGINEER No. 19419 STATE OF INDIANA Jeffery K. Smith 8/30/22</p>	
JOB NUMBER	20019.01
SHEET	C503
DATE	AUGUST 30, 2022



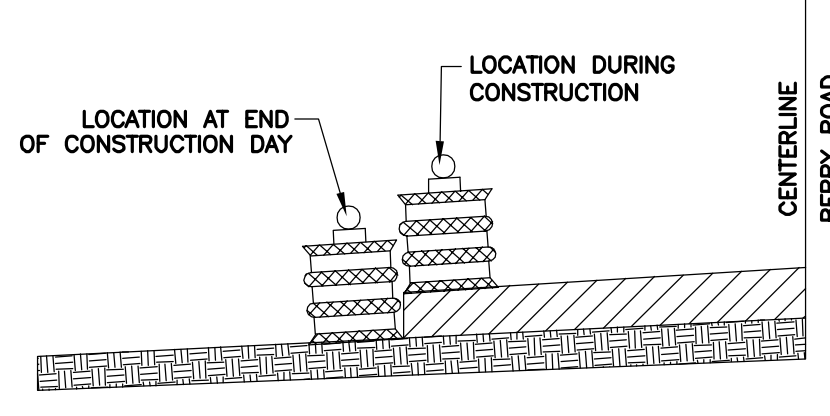
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DRUM BARRICADE
ADJUSTMENTS DUE TO ODD SIZE DRUMS SHOULD BE DIVIDED BETWEEN UPPER AND LOWER STRIPES.

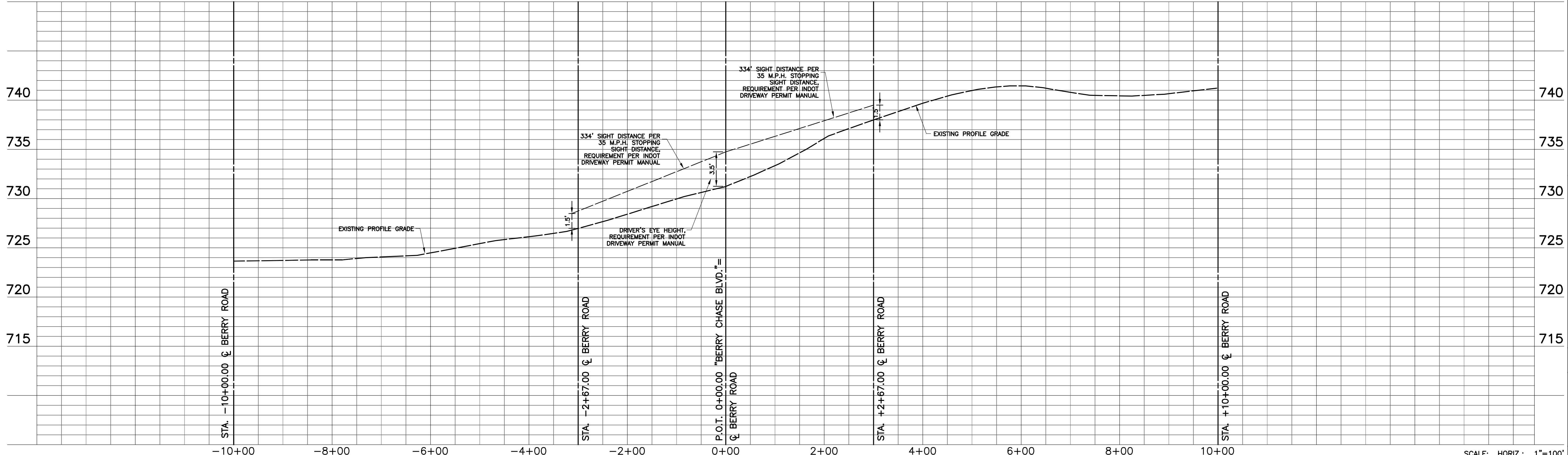


DRUM LOCATION

GENERAL NOTES:

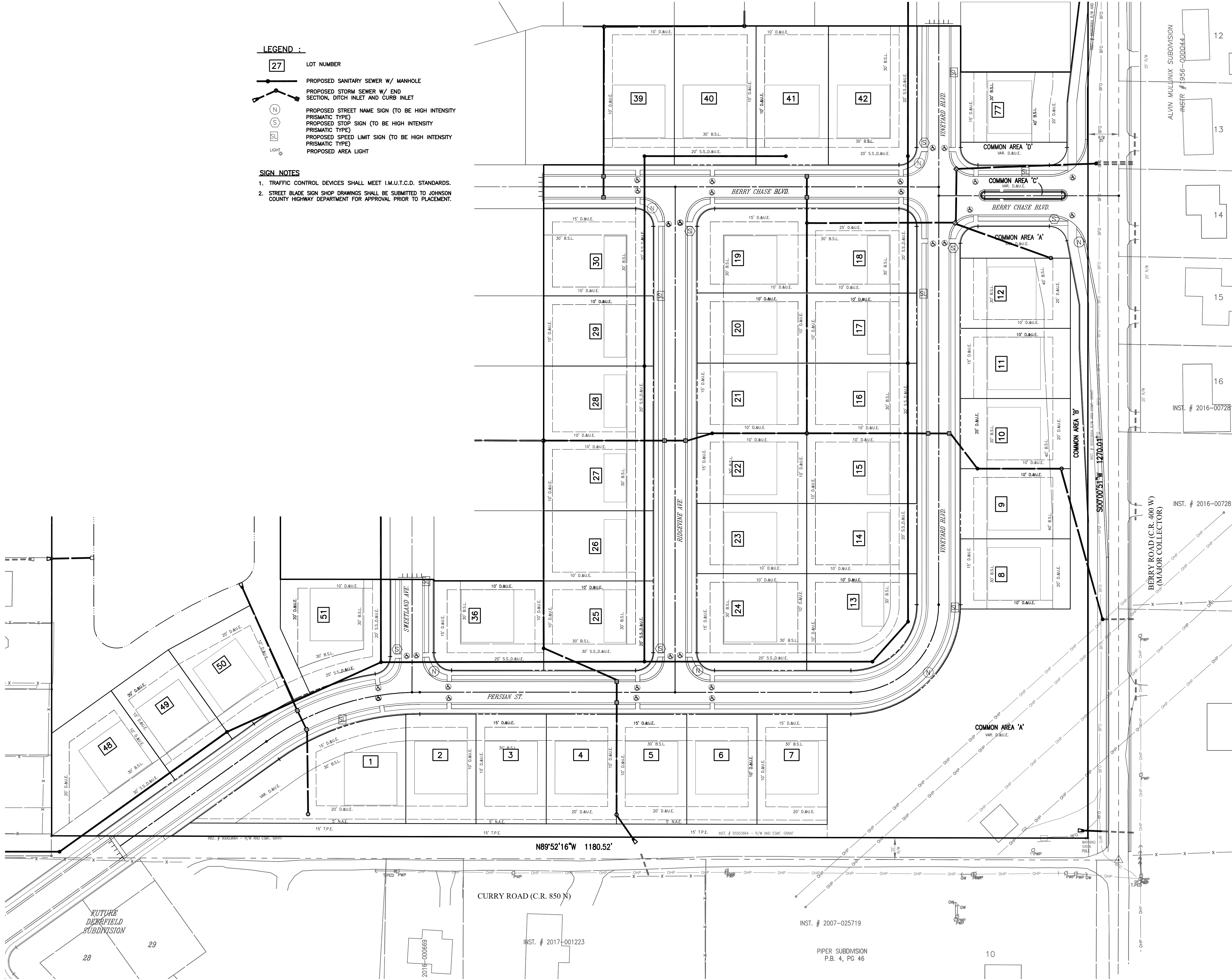
1. ALL TRAFFIC CONSTRUCTION SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS SHALL CONFORM WITH INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST AMENDED EDITIONS.
2. CONSTRUCTION WARNING LIGHTS SHALL BE REQUIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
3. ADDITIONAL SIGNS AND BARRICADES SHALL BE REQUIRED AS DIRECTED.
4. DRUMS OR BARRICADES SHALL BE PLACED ALONG THE OUTSIDE 3 FT. OF THE EXISTING PAVEMENT DURING CONSTRUCTION.
5. "ROAD CONSTRUCTION AHEAD" AND "END CONSTRUCTION" SIGNS ARE REQUIRED ON BOTH SIDES OF BERRY ROAD, AT EACH END OF THE CONSTRUCTION AREA LIMITS.
6. REGULATORY TRAFFIC CONTROL MEASURES AND DEVICES USED IN THE CONSTRUCTION AREAS ARE SHOWN FOR CONSTRUCTION OF THE ENTRANCE ACCELERATION/DECELERATION LANES ONLY. TRAFFIC CONTROL MEASURES AND DEVICES FOR THE CONSTRUCTION OF THE PASSING BUSTER AND OPPOSITE DIRECTION OF TRAVEL SHALL BE THE SAME AS ILLUSTRATED.
7. ALL WOOD POSTS AND SUPPORT MEMBERS SHALL BE PAINTED WITH TWO (2) COATS OF WHITE PAINT.
8. LOCATION OF BARRICADE AS PER PLANS.
9. * REFLECTIVE SHEETING TO BE IN ACCORDANCE WITH I.S.H.C. STANDARD SPECIFICATIONS 912.10.
10. REFER TO SECTION 800 OF THE INDIANA STATE HIGHWAY COMMISSIONS STANDARD SPECIFICATIONS AND LATEST ADDITION OF INDIANA MANUAL FOR UNIFORM TRAFFIC CONTROL, DEVICES.

"BERRY ROAD"
(35 M.P.H.)



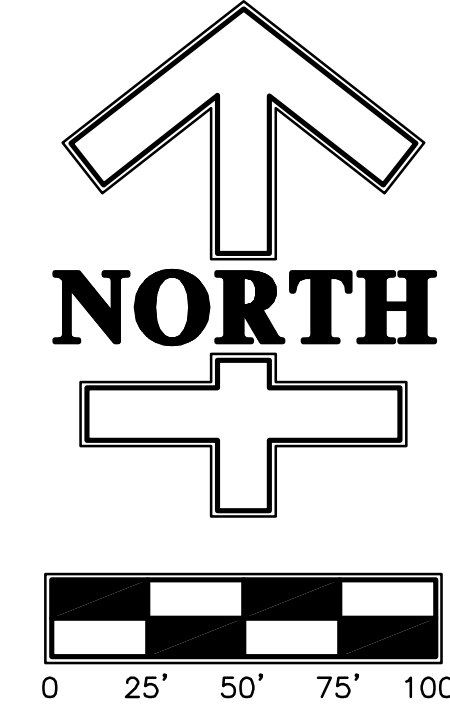
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DATE	
REVISION	
SYMBOL	
SCALE	1"=100'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	TRAFFIC MAINTENANCE PLAN
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>SEAL JEFFERY K. SMITH REGISTERED PROFESSIONAL ENGINEER No. 19419 STATE OF INDIANA Jeffery K. Smith 8/30/22</p> <p>JOB NUMBER 20019.01 SHEET C601</p> <p>DATE AUGUST 30, 2022</p>	



- LEGEND :**
- 27 LOT NUMBER
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED STREET NAME SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED STOP SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED SPEED LIMIT SIGN (TO BE HIGH INTENSITY PRISMATIC TYPE)
 - PROPOSED AREA LIGHT

- SIGN NOTES**
1. TRAFFIC CONTROL DEVICES SHALL MEET I.M.U.T.C.D. STANDARDS.
 2. STREET BLADE SIGN SHOP DRAWINGS SHALL BE SUBMITTED TO JOHNSON COUNTY HIGHWAY DEPARTMENT FOR APPROVAL PRIOR TO PLACEMENT.



DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
TITLE	INTERIOR TRAFFIC CONTROL PLAN
PROJECTS plus GREENWOOD SURVEYING COMPANY <small>SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003</small>	
JOB NUMBER	20019.01
SHEET	C701
DATE	AUGUST 30, 2022

811
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DATE	
REVISION	
SYMBOL	
SCALE	AS SHOWN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	STORM SEWER PLAN AND PROFILE

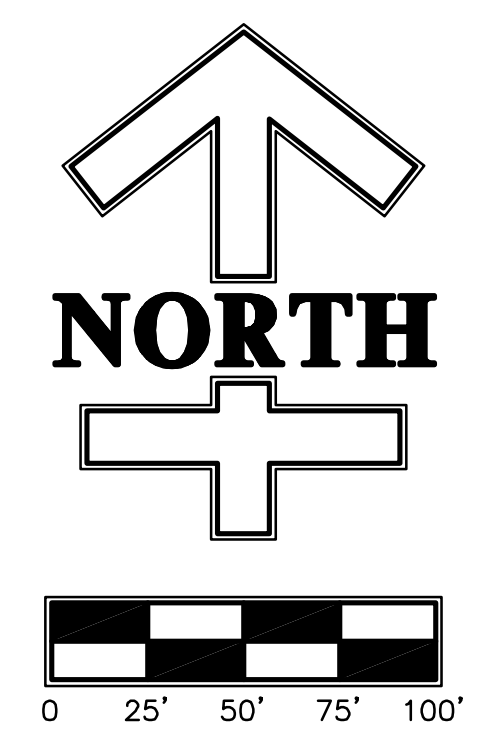
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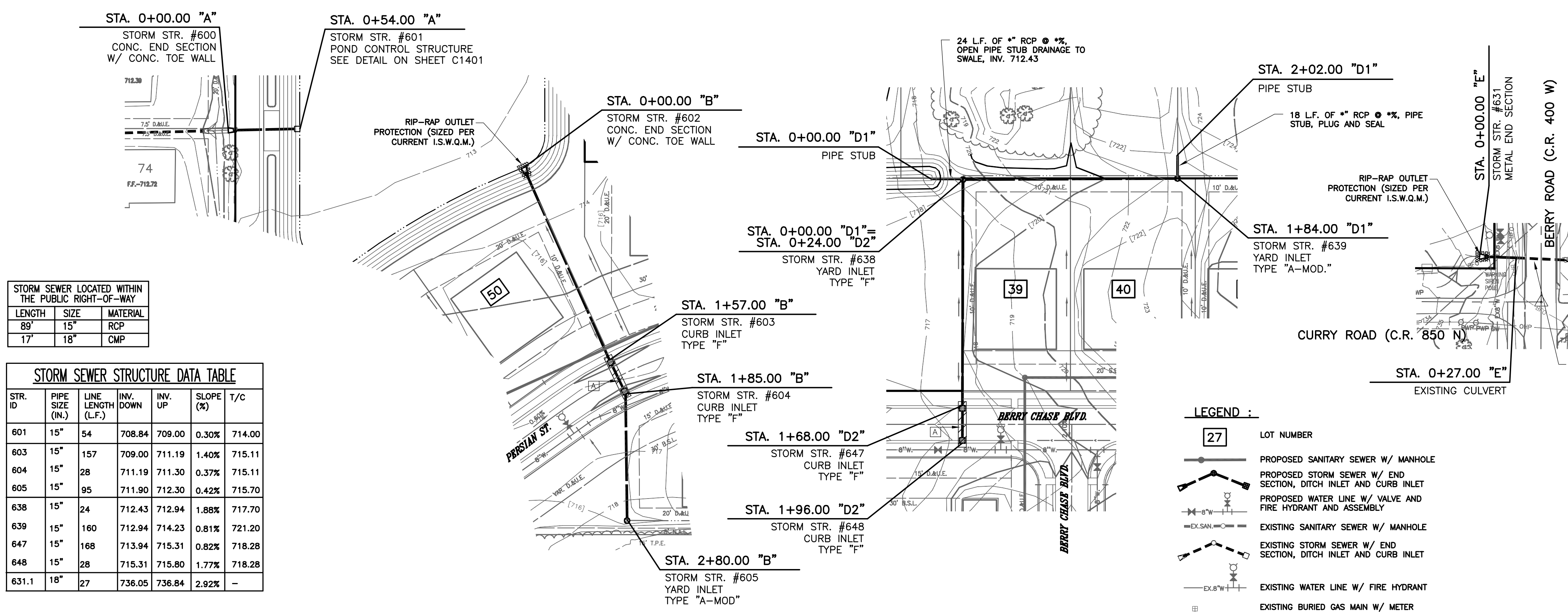


CASTING NOTE:

- ALL STORM CASTINGS ARE TO BE OF THE "ENVIRONMENTAL" TYPE AND EMBOSSED WITH THE APPROPRIATE LANGUAGE AND SYMBOLS.

GENERAL NOTES

- ALL UTILITIES CROSSING OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL (THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
- ANY FIELD TILE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE REPELATED IN COMPLIANCE WITH STATE AND LOCAL LAWS AND REGULATIONS. STRUCTURES MUST BE CORE DRILLED.

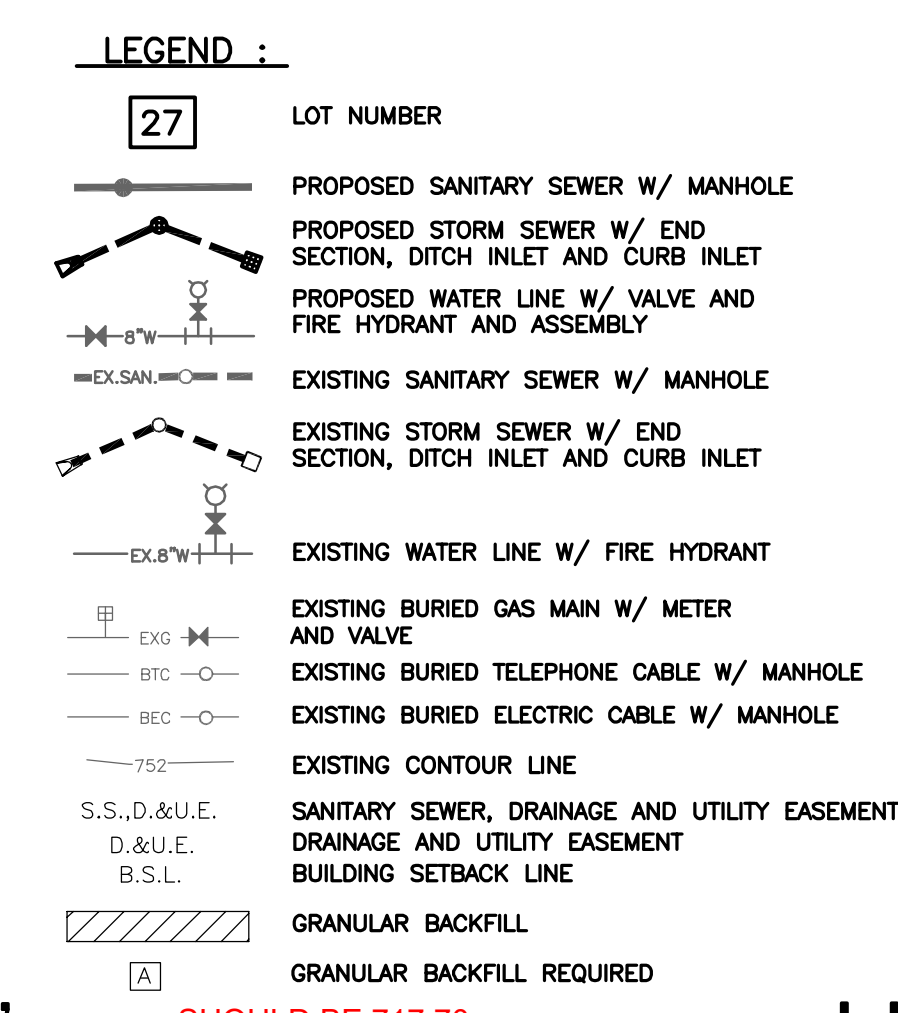


STORM SEWER LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY

LENGTH	SIZE	MATERIAL
89'	15"	RCP
17'	18"	CMP

STORM SEWER STRUCTURE DATA TABLE

STR. ID	PIPE SIZE (IN.)	LINE LENGTH (L.F.)	INV. DOWN	INV. UP	SLOPE (%)	T/C
601	15"	54	708.84	709.00	0.30%	714.00
603	15"	157	709.00	711.19	1.40%	715.11
604	15"	28	711.19	711.30	0.37%	715.11
605	15"	95	711.90	712.30	0.42%	715.70
638	15"	24	712.43	712.94	1.88%	717.70
639	15"	160	712.94	714.23	0.81%	721.20
647	15"	168	713.94	715.31	0.82%	718.28
648	15"	28	715.31	715.80	1.77%	718.28
631.1	18"	27	736.05	736.84	2.92%	-



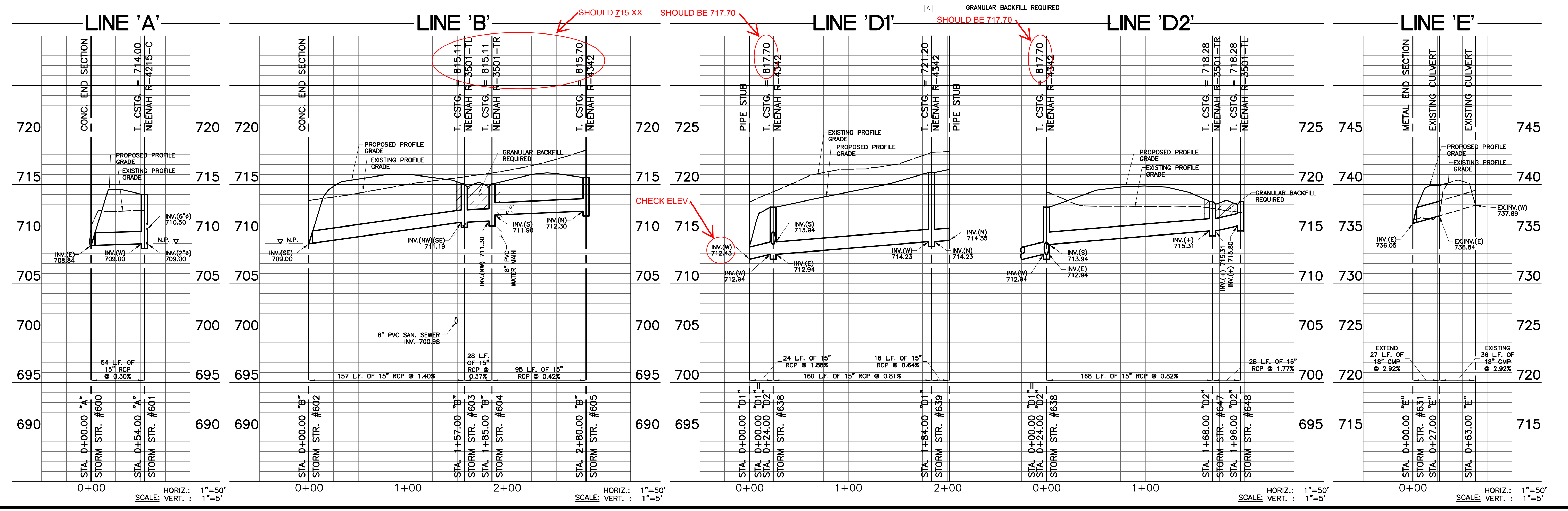
811

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PROJECTS plus

GREENWOOD SURVEYING COMPANY

STATE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
(317)-882-5003

SEAL

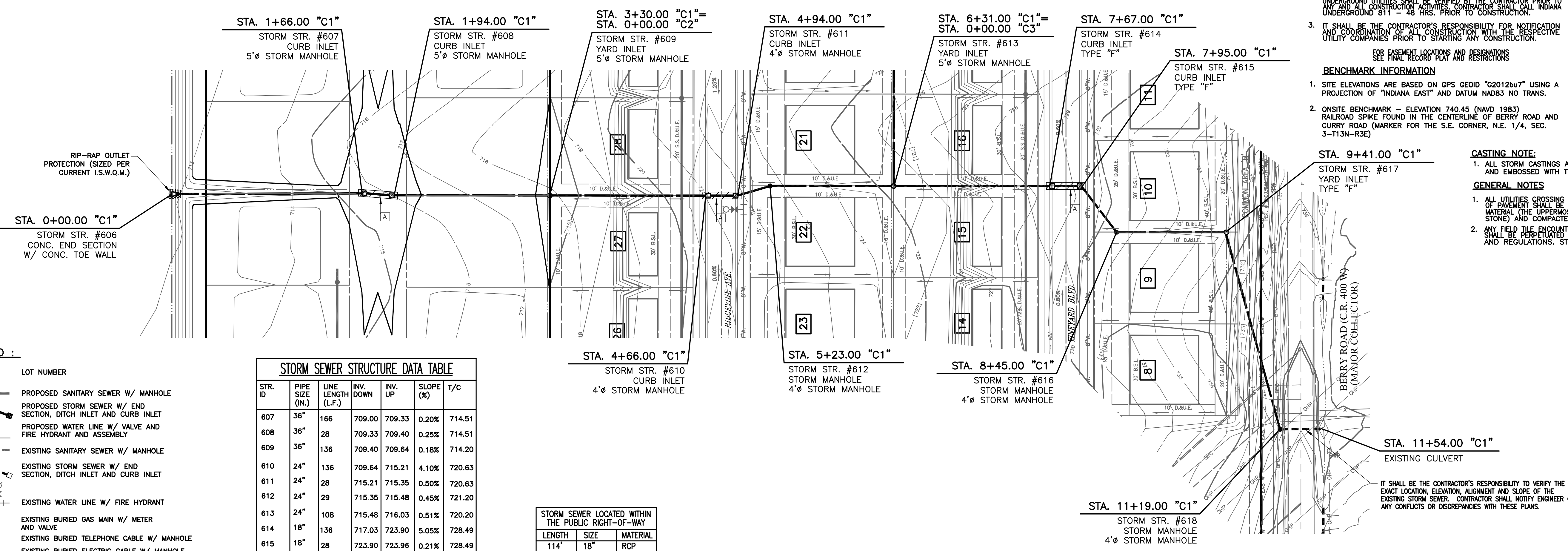
JEFFERY K. SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 19419
STATE OF INDIANA

Jeffery K. Smith
8/30/22

JOB NUMBER
2019.01

SHEET
C801

DATE
AUGUST 30, 2022



NOTICES AND PERMITS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
- THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, AS-BUILT FIELD INFORMATION AND PUBLIC INFORMATION. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR LOCATION AVAILABLE. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CALL INDIANA UNDERGROUND 811 - 48 HRS. PRIOR TO CONSTRUCTION.
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FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAT AND RESTRICTIONS

BENCHMARK INFORMATION

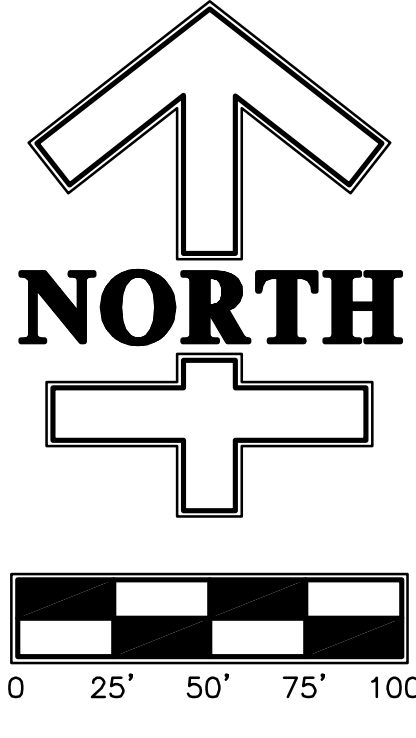
- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
- ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)

CASTING NOTE:

- ALL STORM CASTINGS ARE TO BE OF THE "ENVIRONMENTAL" TYPE AND EMBOSSED WITH THE APPROPRIATE LANGUAGE AND SYMBOLS.

GENERAL NOTES

- ALL UTILITIES CROSSING OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL (THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
- ANY FIELD TILE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE RE-ELEVATED IN COMPLIANCE WITH STATE AND LOCAL LAWS AND REGULATIONS. STRUCTURES MUST BE CORE DRILLED.



LEGEND :

- 27 LOT NUMBER
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
- EXISTING SANITARY SEWER W/ MANHOLE
- EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- EXISTING WATER LINE W/ FIRE HYDRANT
- EXISTING BURIED GAS MAIN W/ METER AND VALVE
- EXISTING BURIED TELEPHONE CABLE W/ MANHOLE
- EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
- EXISTING CONTOUR LINE
- S.S., D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
- D.&U.E. DRAINAGE AND UTILITY EASEMENT
- B.S.L. BUILDING SETBACK LINE
- GRANULAR BACKFILL
- GRANULAR BACKFILL REQUIRED

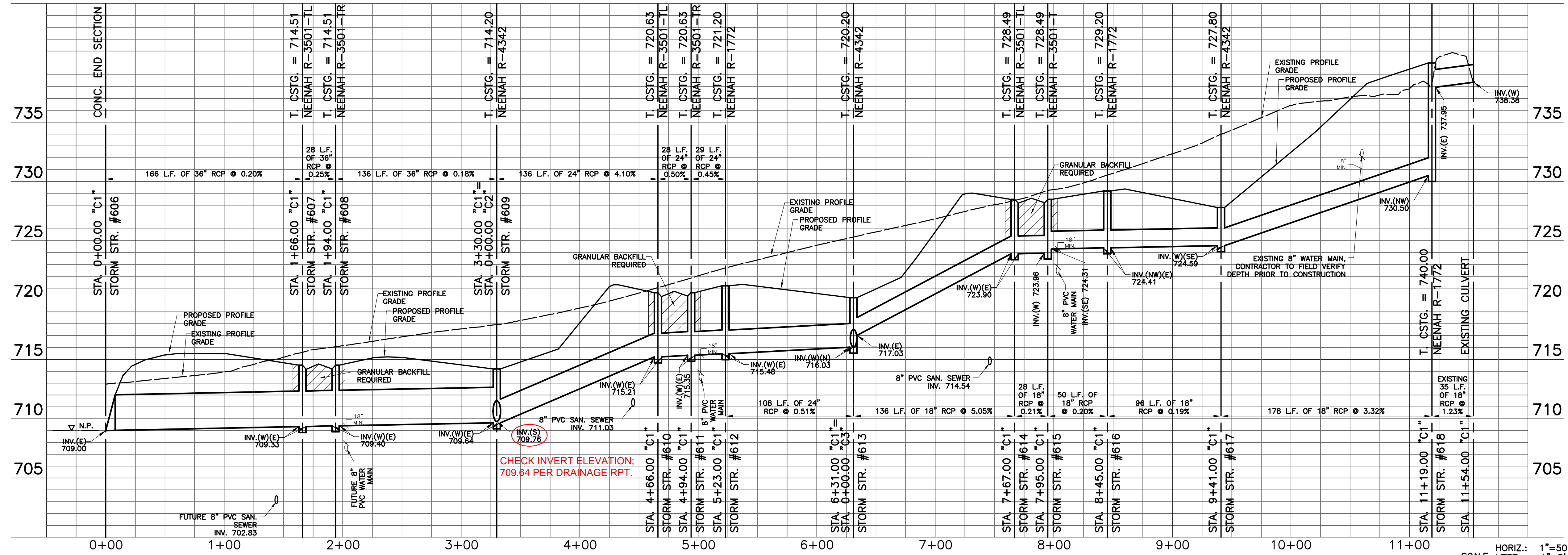
STORM SEWER STRUCTURE DATA TABLE

STR. ID	PIPE SIZE (IN.)	LINE LENGTH (L.F.)	INV. DOWN	INV. UP	SLOPE (%)	T/C
607	36"	166	709.00	709.33	0.20%	714.51
608	36"	28	709.33	709.40	0.25%	714.51
609	36"	136	709.40	709.64	0.18%	714.20
610	24"	136	709.64	715.21	4.10%	720.63
611	24"	28	715.21	715.35	0.50%	720.63
612	24"	29	715.35	715.48	0.45%	721.20
613	24"	108	715.48	716.03	0.51%	720.20
614	18"	136	717.03	723.90	5.05%	728.49
615	18"	28	723.90	723.96	0.21%	728.49
616	18"	50	724.31	724.41	0.20%	729.20
617	18"	96	724.41	724.59	0.19%	727.80
618	18"	178	724.59	730.50	3.32%	740.00
EX618.1	18"	35	737.95	738.38	1.23%	-

STORM SEWER LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY

LENGTH	SIZE	MATERIAL
114'	18"	RCP
50'	24"	RCP
50'	36"	RCP

LINE 'C1'



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DATE	REVISION	SYMBOL	SCALE	AS SHOWN	DRAWN	CHECKED	CERTIFIED
					JPH	JKS	JKS

PROJECT: BERRY CHASE - SECTION ONE
 TITLE: WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
 DRAWN: JPH
 CHECKED: JKS
 CERTIFIED: JKS

PROJECTS plus
 GREENWOOD SURVEYING COMPANY

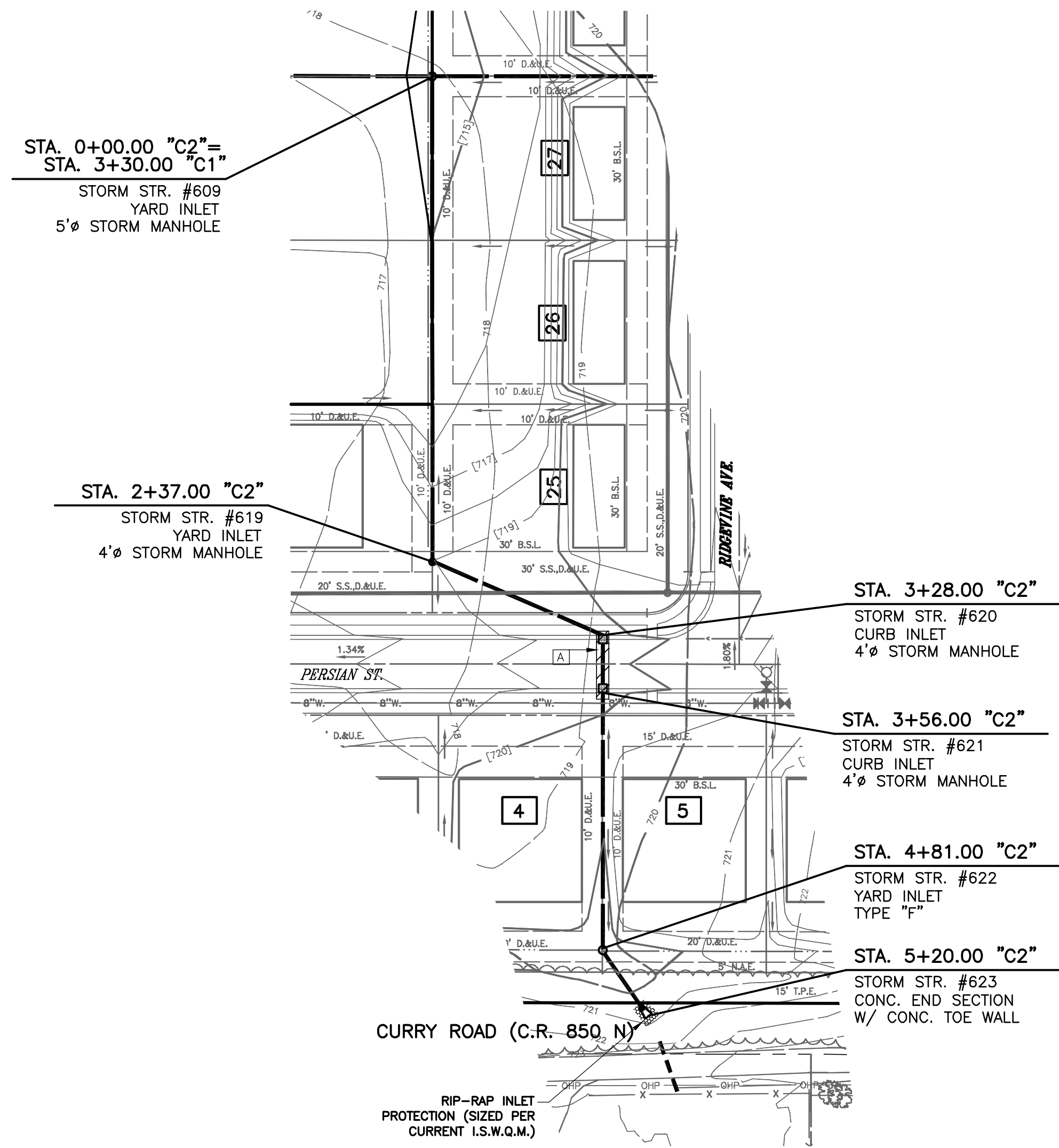
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317)-882-5003

SEAL

JEFFERY K. SMITH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19419
 STATE OF INDIANA

Jeffery K. Smith
 8/30/22

JOB NUMBER: 20019.01
 SHEET: C802
 DATE: AUGUST 30, 2022



STORM SEWER LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY		
LENGTH	SIZE	MATERIAL
50'	21"	RCP

STORM SEWER STRUCTURE DATA TABLE						
STR. ID	PIPE SIZE (IN.)	LINE LENGTH (L.F.)	INV. DOWN	INV. UP	SLOPE (%)	T/C
619	21"	237	709.76	714.50	2.00%	719.00
620	21"	91	714.50	715.10	0.66%	719.55
621	21"	28	715.10	715.25	0.54%	719.55
622	21"	125	715.25	715.70	0.36%	719.30
623	18"	39	715.70	720.00	11.03%	-

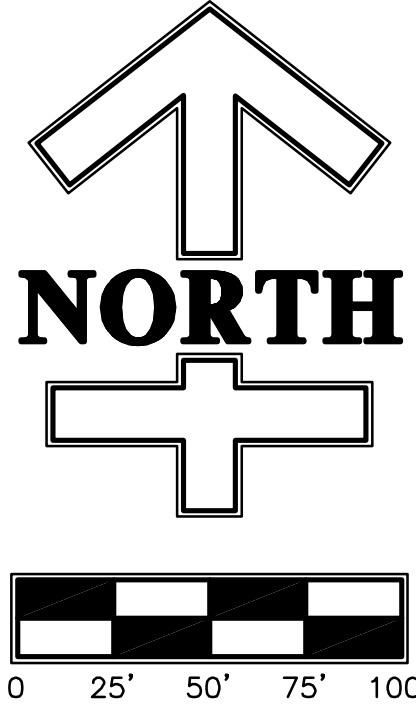
NOTICES AND PERMITS

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FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAT AND RESTRICTIONS

BENCHMARK INFORMATION

- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
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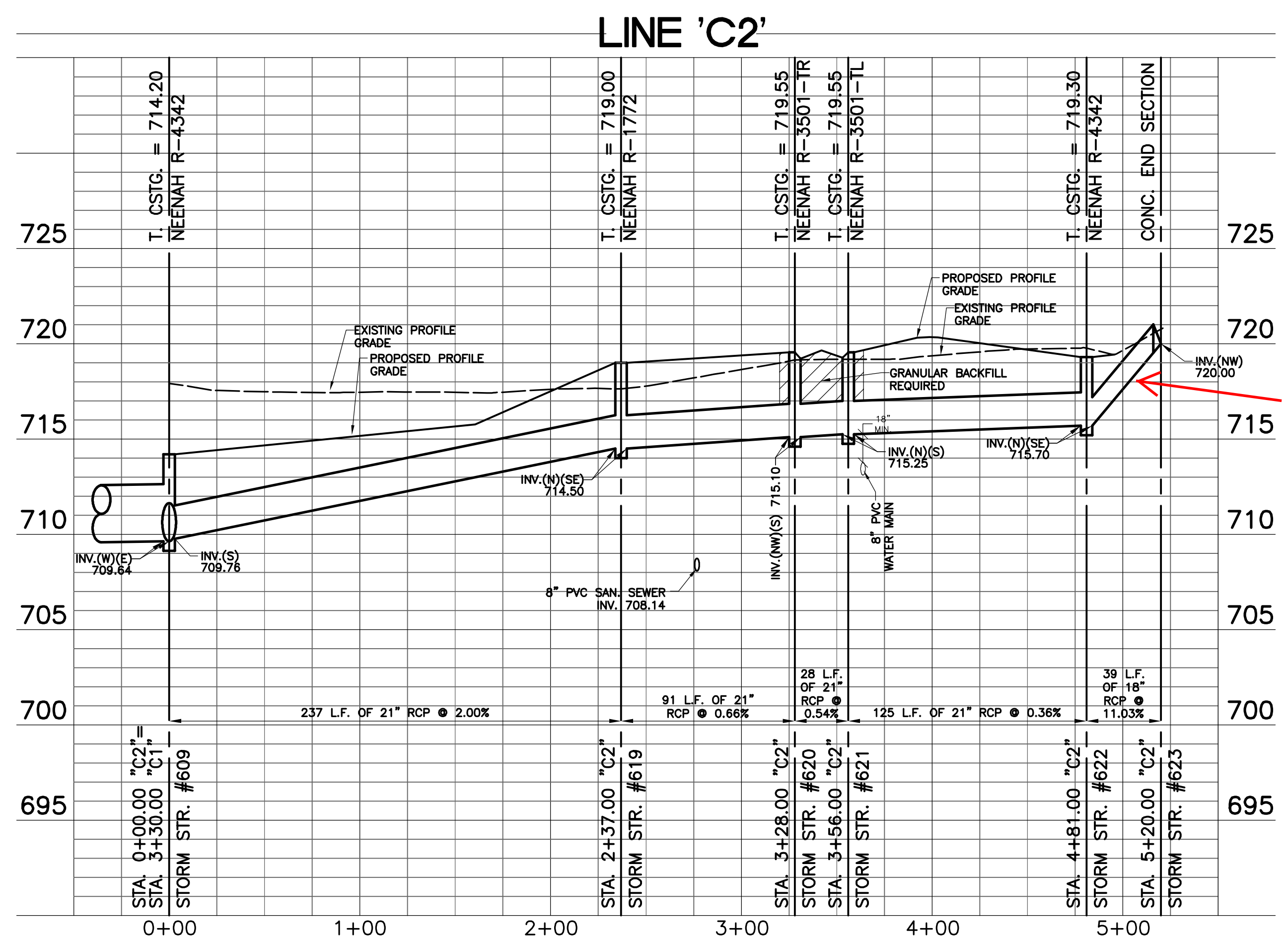
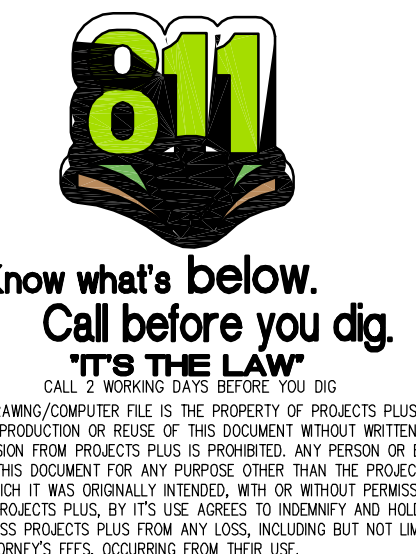
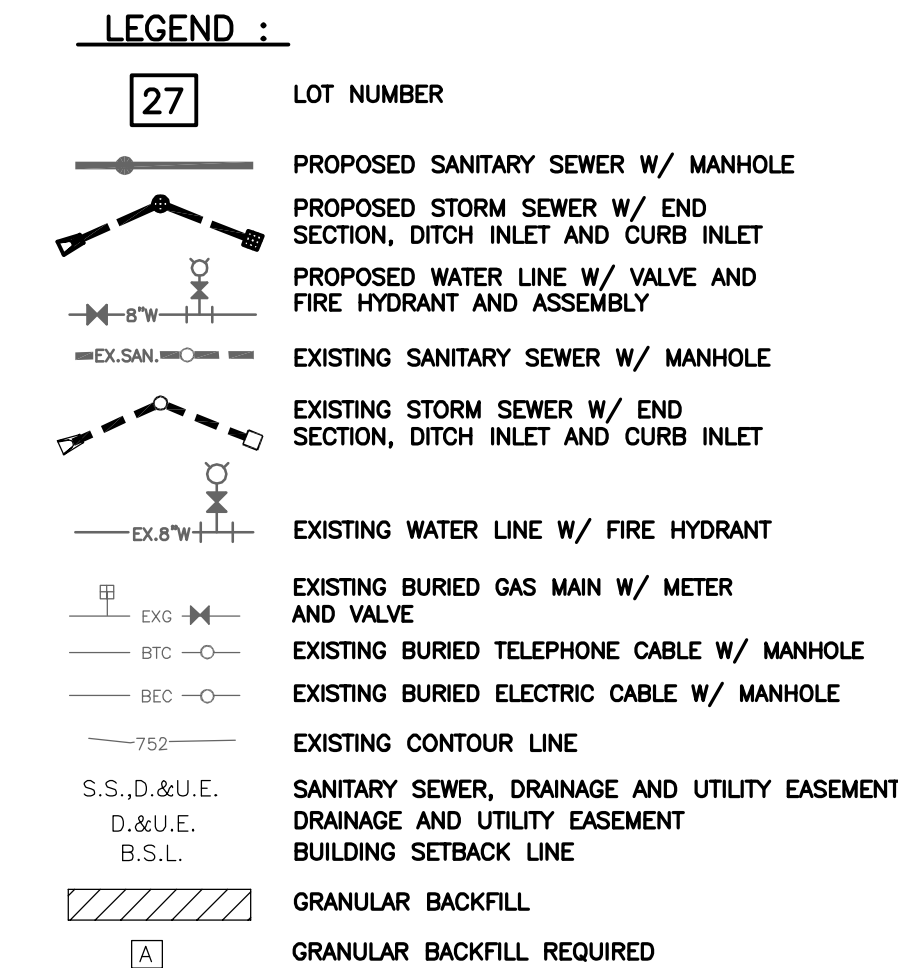


CASTING NOTE:

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GENERAL NOTES

- ALL UTILITIES CROSSING OR TRENCHES WITHIN (5) FEET OF THE EDGE OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL (THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
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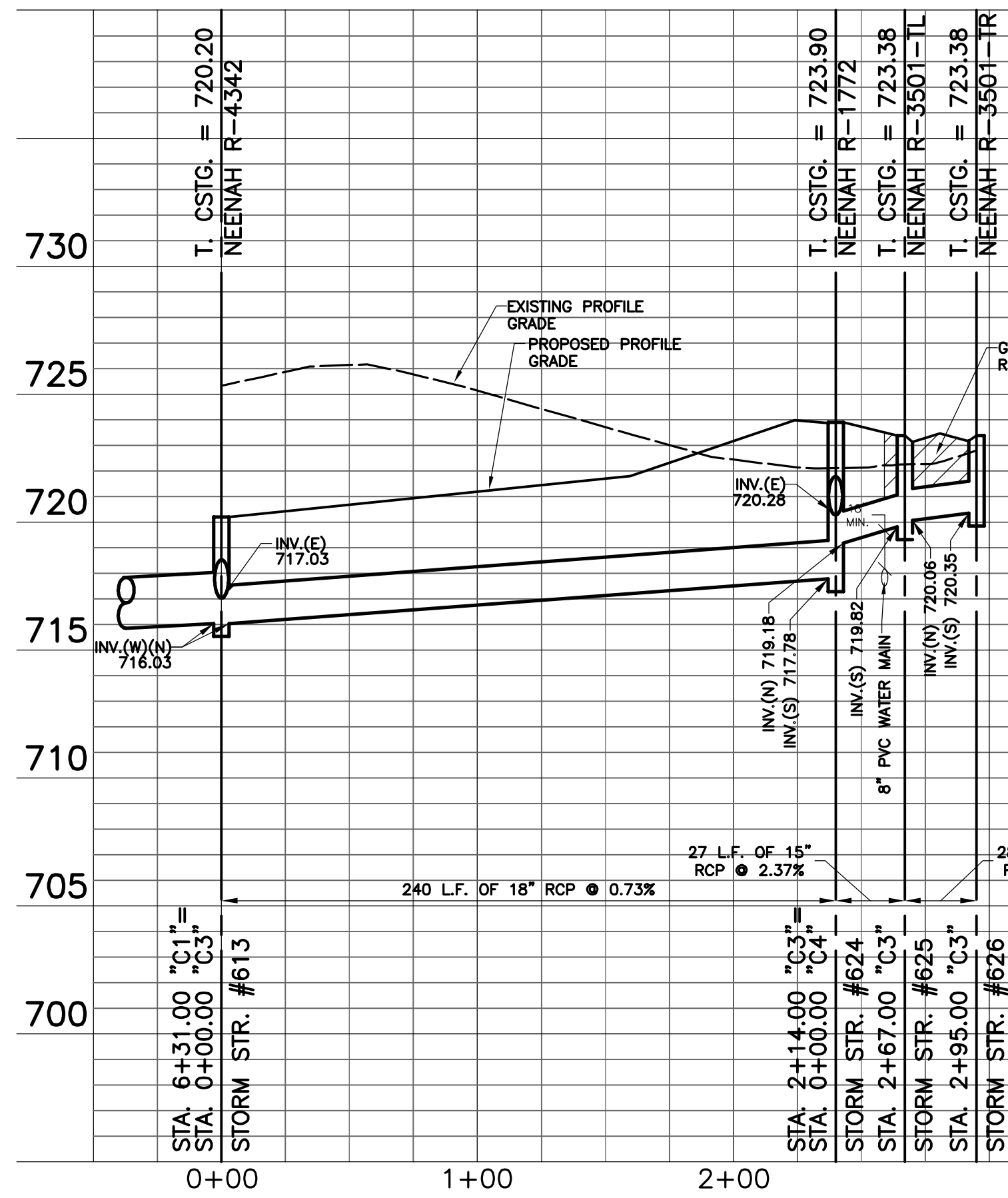
FULL-FLOW VELOCITY AS SHOWN IS 21.39 FPS AND IS NOT ACCEPTABLE (10 FPS IS STANDARD MAXIMUM VELOCITY). THE MAXIMUM SLOPE TO ACHIEVE LESS THAN 10 FPS FOR AN 18" RPC IS 2.24%. PLACE AN INLET AT UPSTREAM END.

DATE	
REVISION	
SYMBOL	
SCALE	AS SHOWN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	STORM SEWER PLAN AND PROFILE
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003</p>	
<p>SEAL</p> <p>JEFFERY K. SMITH REGISTERED PROFESSIONAL ENGINEER No. 19419 STATE OF INDIANA</p> <p>Jeffery K. Smith 8/30/22</p>	
<p>JOB NUMBER 20019.01</p> <p>SHEET C803</p> <p>DATE AUGUST 30, 2022</p>	

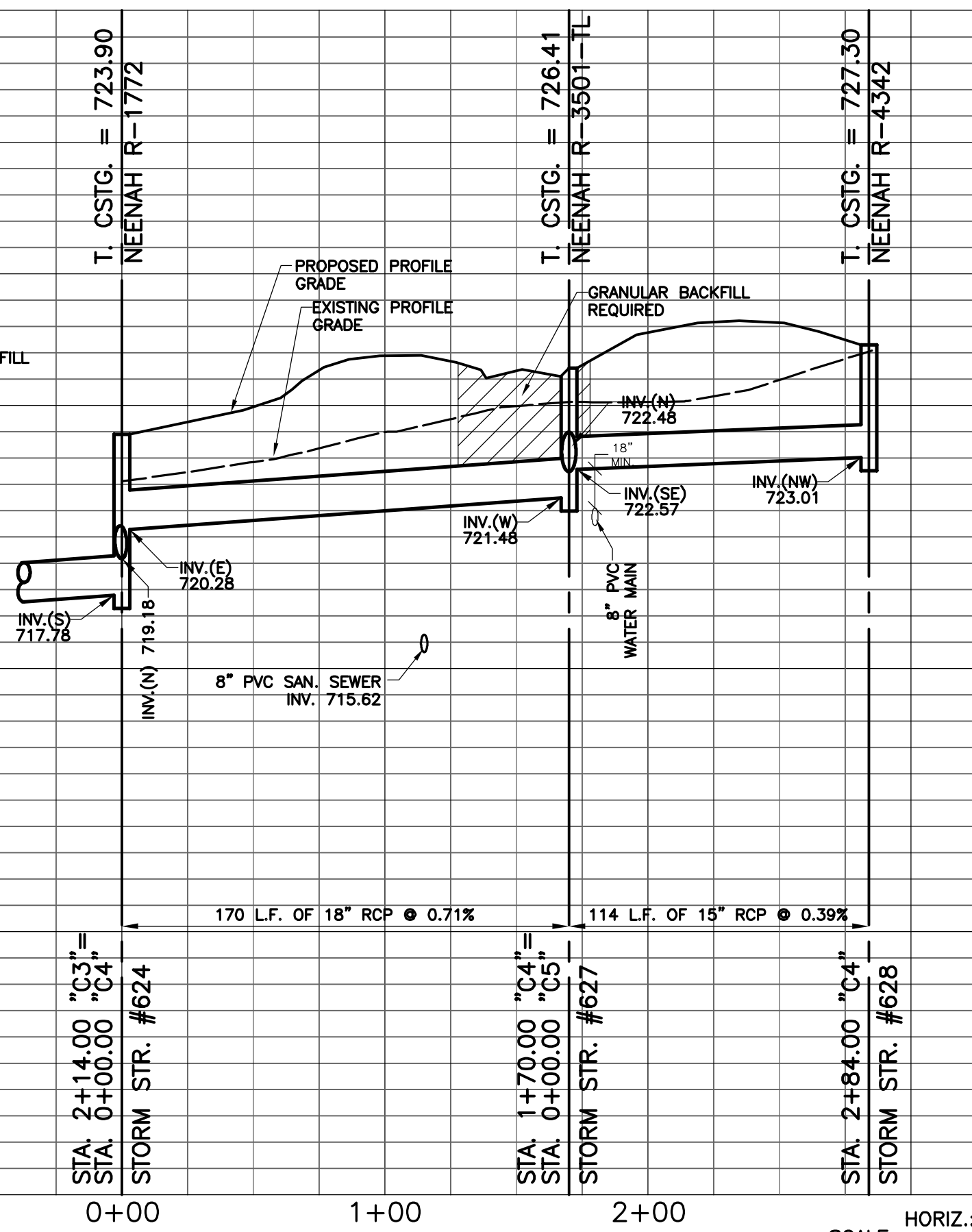
STORM SEWER STRUCTURE DATA TABLE						
STR. ID	PIPE SIZE (IN)	LINE LENGTH (L.F.)	INV. DOWN	INV. UP	SLOPE (%)	T/C
624	18"	240	716.03	717.78	0.66%	723.90
625	15"	27	719.18	719.82	0.54%	723.38
626	15"	28	720.06	720.35	0.36%	723.38
627	18"	170	720.28	721.48	0.71%	726.41
628	15"	114	722.57	723.01	0.39%	727.30
629	18"	64	722.48	723.68	1.88%	727.12
630	18"	158	723.68	727.45	2.39%	730.62
EX630.1	18"	42	727.45	727.79	0.81%	-

STORM SEWER LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY		
LENGTH	SIZE	MATERIAL
57'	15"	RCP
266'	18"	RCP

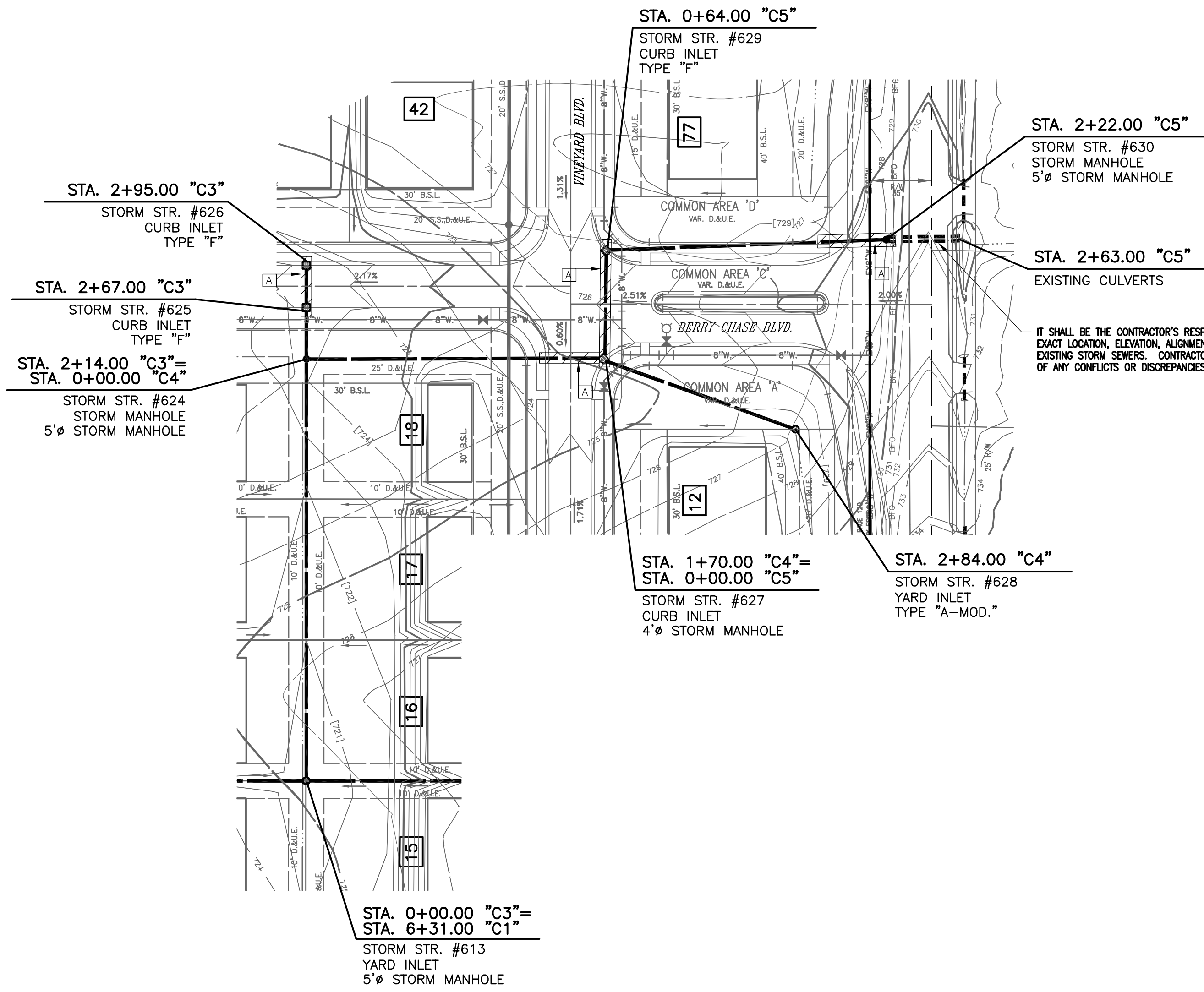
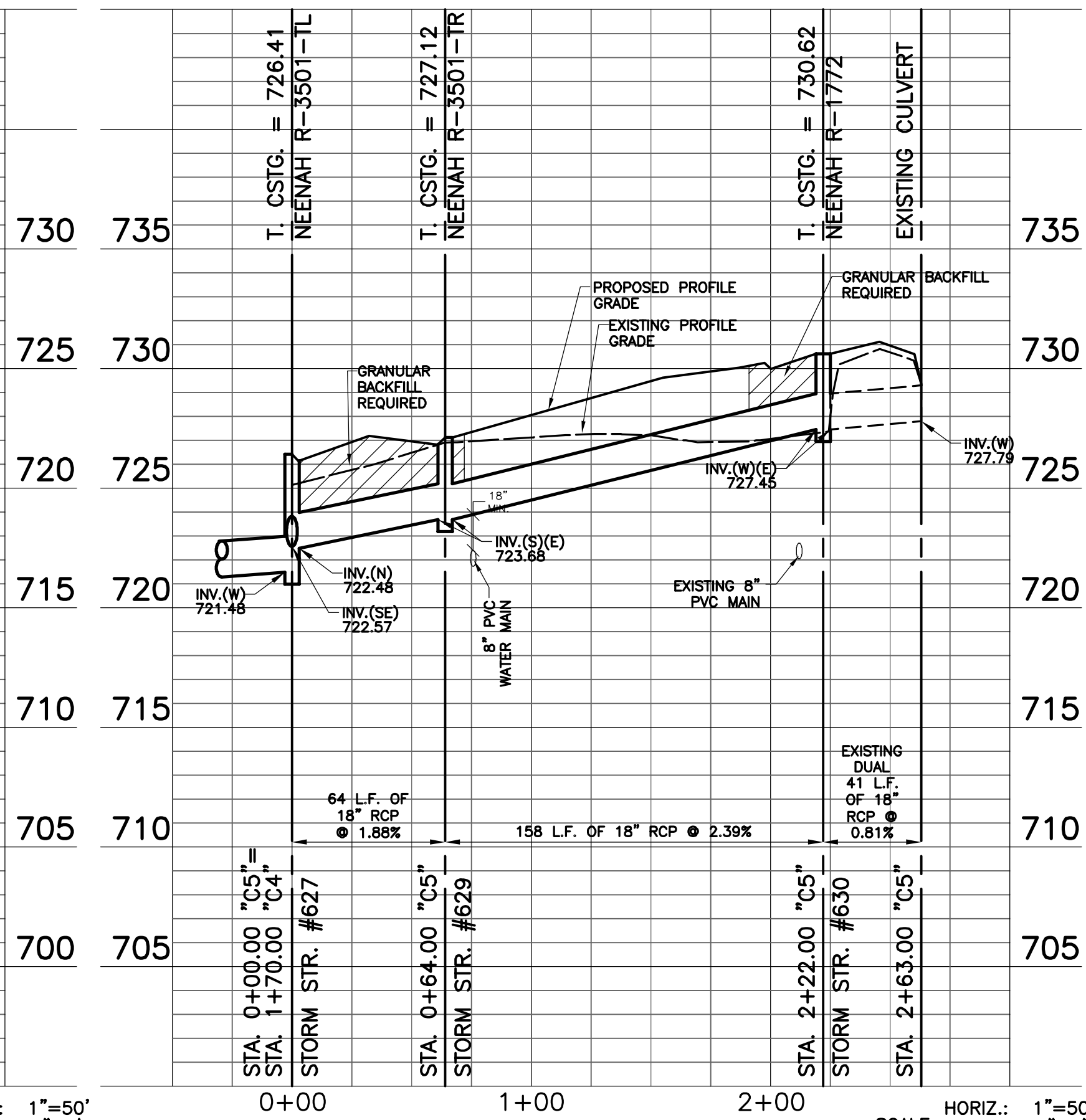
LINE 'C3'



LINE 'C4'



LINE 'C5'



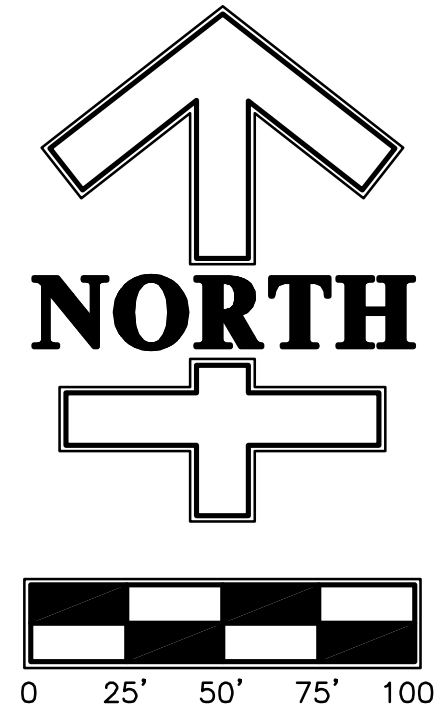
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BENCHMARK INFORMATION

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CASTING NOTE:

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GENERAL NOTES

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LEGEND :

- 27 LOT NUMBER
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
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- EXISTING BURIED ELECTRIC CABLE W/ MANHOLE
- EXISTING CONTOUR LINE
- S.S., D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
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- B.S.L. BUILDING SETBACK LINE
- GRANULAR BACKFILL
- GRANULAR BACKFILL REQUIRED



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DATE	REVISION	SYMBOL	SCALE	AS SHOWN	DRAWN	CHECKED	CERTIFIED
				JPH	JPH	JKS	JKS

PROJECT: BERRY CHASE - SECTION ONE
 TITLE: WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
 DRAWN: JPH
 CHECKED: JKS
 CERTIFIED: JKS

PROJECTS plus
 GREENWOOD SURVEYING COMPANY
 SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317)-882-5003

SEAL: JEFFREY K. SMITH, REGISTERED PROFESSIONAL ENGINEER, No. 19419, STATE OF INDIANA
 Signature: Jeffrey K. Smith 8/30/22

JOB NUMBER: 20019.01
 SHEET: C804
 DATE: AUGUST 30, 2022

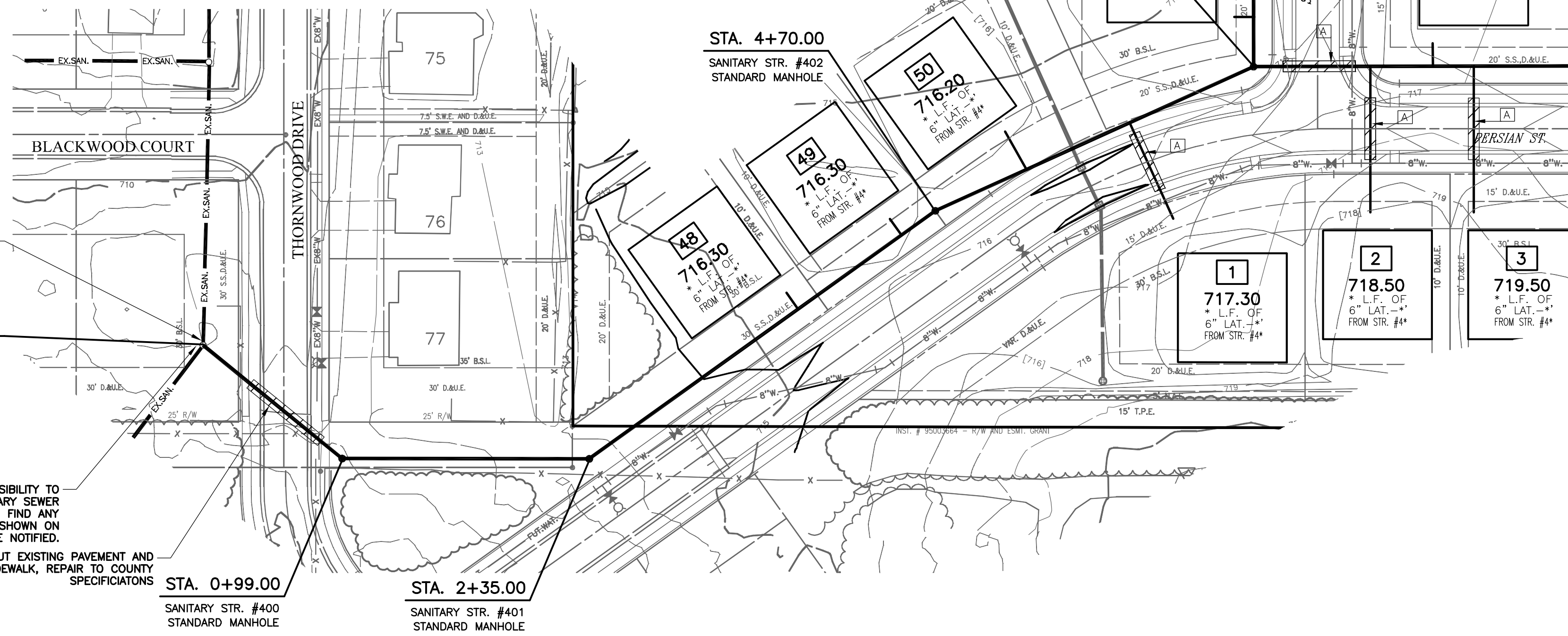
SANITARY NOTE:
 WHERE THE SANITARY DRAINAGE SYSTEM CAN DISCHARGE INTO THE SEWER BY GRAVITY FLOW, THE LOWEST FLOOR ELEVATION WHERE A PLUMBING FIXTURE OR FLOOR DRAIN IS INSTALLED MUST BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE LOWEST DOWNSTREAM OR UPSTREAM MANHOLE CASTING NEAREST TO THE SUBJECT LATERAL CONNECTION.

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ADJACENT HOME OWNER PRIOR TO CONSTRUCTION.
 CONTRACTOR SHALL RESTORE/REPAIR EXISTING LAWN AND LANDSCAPE AREAS TO THEIR EXISTING CONDITIONS IMMEDIATELY AFTER CONSTRUCTION OF CONNECTION.

STA. 0+00.00
 SANITARY STR. #EX1
 EXISTING MANHOLE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF SANITARY SEWER MANHOLE. IF THE CONTRACTOR SHOULD FIND ANY DIFFERENCES THAN THE INFORMATION SHOWN ON THESE PLANS THE ENGINEER SHALL BE NOTIFIED.

OPEN CUT EXISTING PAVEMENT AND SIDEWALK, REPAIR TO COUNTY SPECIFICATIONS



LEGEND :

- 27 LOT NUMBER
- 754.50 PROPOSED EARTHEN PAD ELEVATION
- 65 L.F. OF 6\"/>

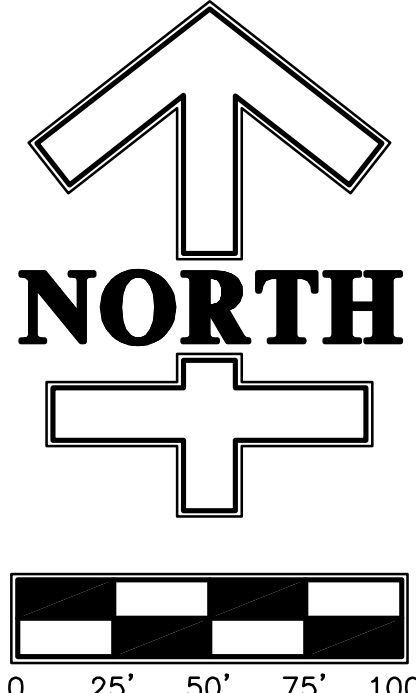
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BENCHMARK INFORMATION

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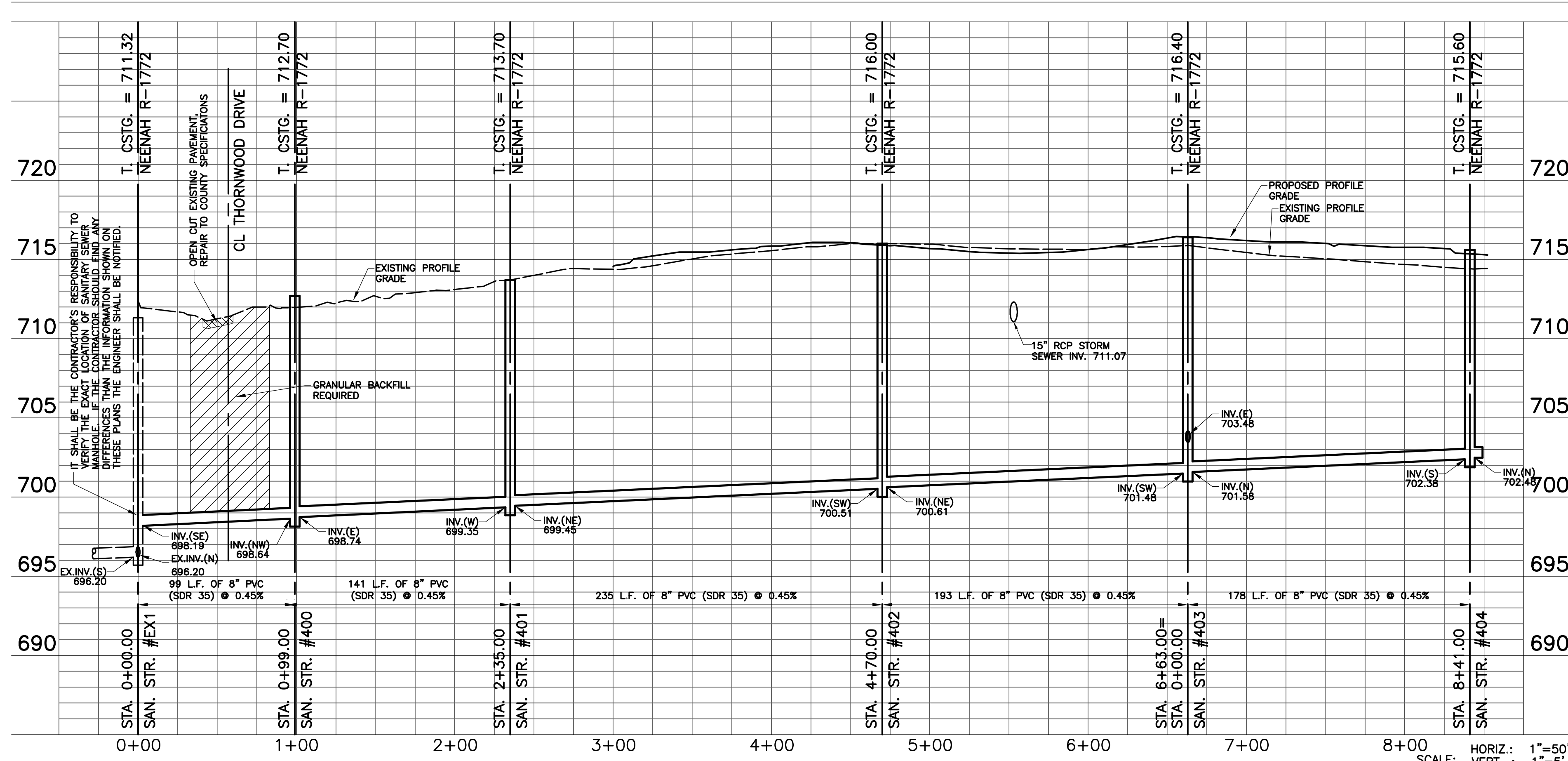
GENERAL NOTES

- NONE OF THE SANITARY SEWER IN THIS PROJECT ARE TO BE CONSTRUCTED UNTIL THE LETTER OF APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT HAS BEEN RECEIVED BY THE ENGINEER AND A COPY FORWARDED TO THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.
- IF ALTERNATE STRUCTURES ARE TO BE SUPPLIED, SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED IN WRITING PRIOR TO INSTALLATION.
- SANITARY LATERALS SHALL BE LAID AT A GRADE NOT LESS THAN 1.08% TO A DEPTH AT THE PROPERTY LINE OF NOT LESS THAN 6.00 FEET. CONTRACTOR TO PROVIDE 100% WATER TIGHTNESS, AND A 2" DIA. PVC PIPE EXTENDING 4" ABOVE GRADE, ADDITIONAL 1/2" METAL LOCATOR ROD OR MAGNETIC LOCATOR TAPE SHALL BE INSTALLED AT THE END OF PIPE WITHIN 3' OF FINISH GRADE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE AVAILABLE TO THE BUILDER, DIMENSIONS TO LOCATE SEWER STUBS AND/OR ANY UTILITY CONDUIT STUBS INSTALLED.
- ALL UTILITY CROSSINGS OR TRENCHES WITHIN (5) FEET OF THE EDGE OF OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL. THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL BETWEEN WATER MAINS, SANITARY & STORM SEWERS, ALSO A MINIMUM OF 10" HORIZONTAL SEPARATION BETWEEN WATER MAINS & SANITARY SEWER
- ALL SANITARY PIPES GREATER THAN 15 FEET DEEP SHALL BE RATED AS HEAVY WALL S.D.R.-26.
- EXISTING WELLS AND SEPTIC SYSTEMS ON THIS SITE MUST BE PROPERLY ABANDONED WITH PLANNING AND ZONING OR HEALTH DEPARTMENT PERSONNEL PRESENT.

FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAN AND RESTRICTIONS



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HORIZ.: 1"=50'
 VERT.: 1"=5'

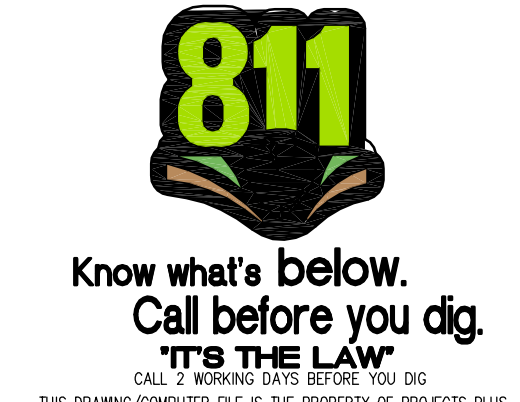
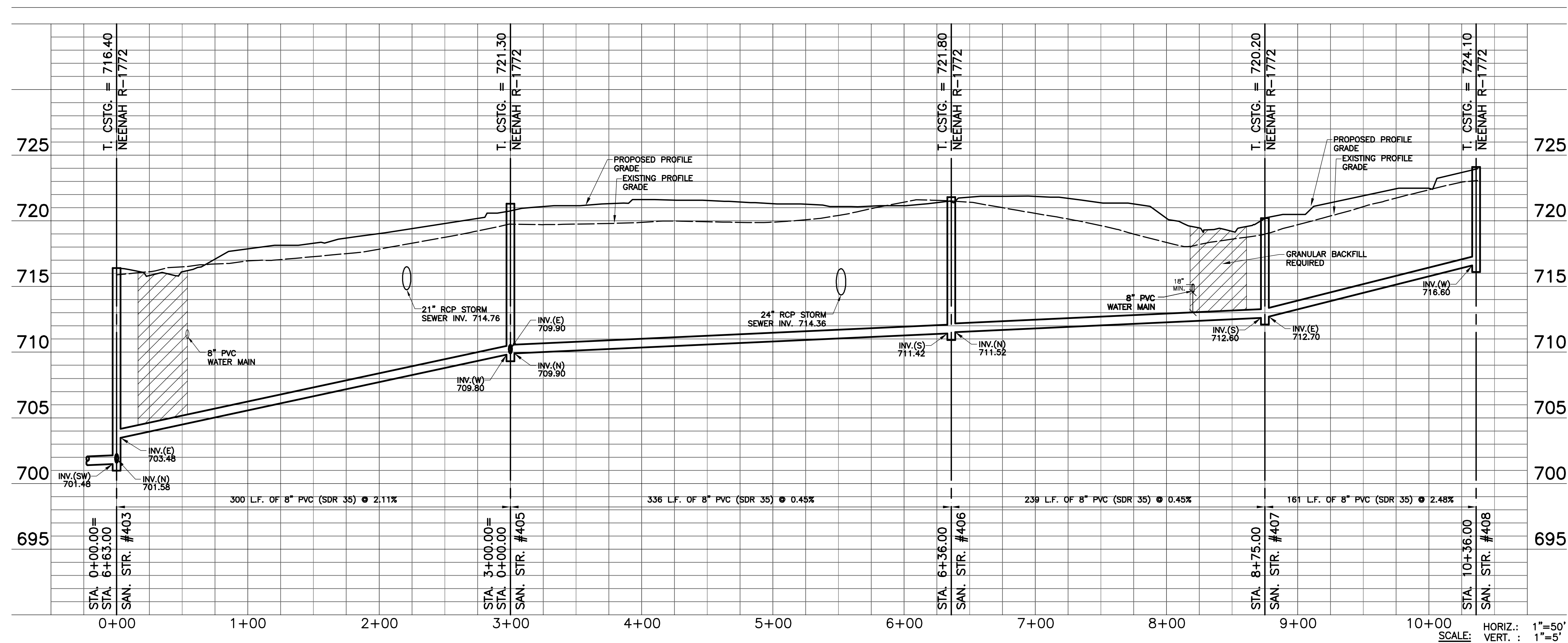
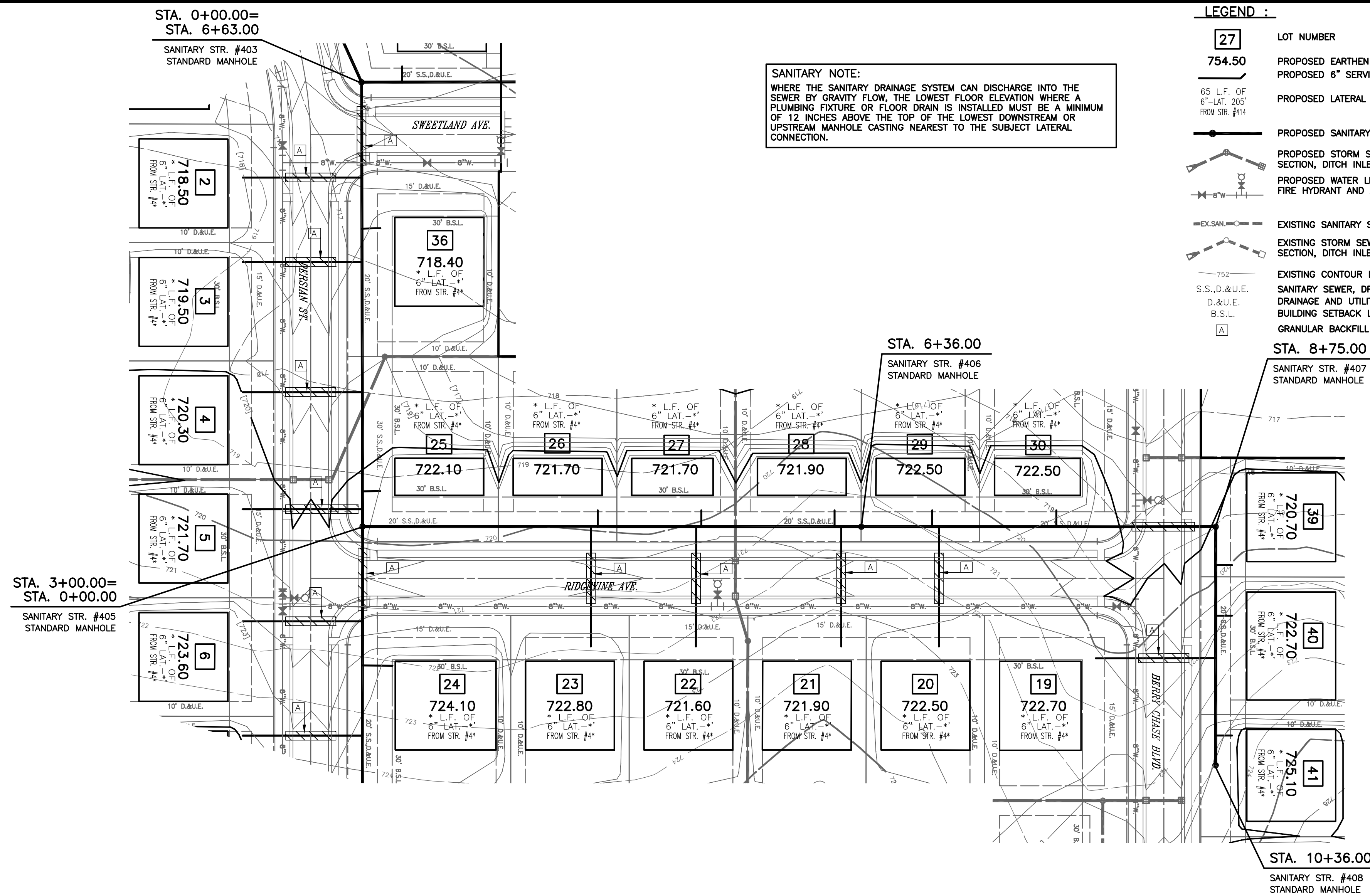
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								WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA	CHECKED BY: JKS
								TITLE	CERTIFIED BY: JKS
								SANITARY SEWER PLAN AND PROFILE AND LATERAL LOCATIONS	

PROJECTS plus
 GREENWOOD SURVEYING COMPANY

1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317) 882-5003

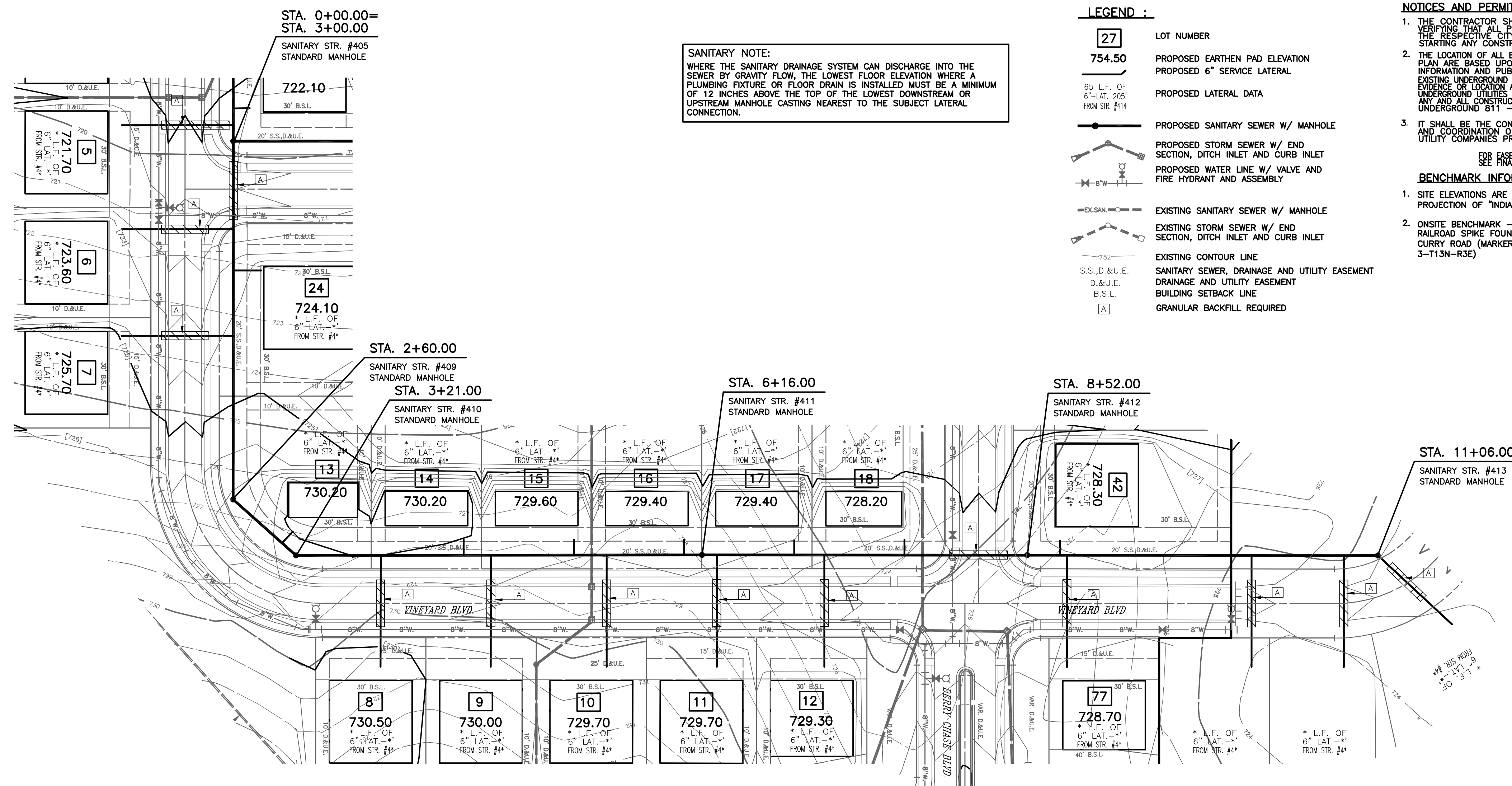
SEAL
 JEFFERY K. SMITH
 REGISTERED PROFESSIONAL ENGINEER
 No. 19419
 STATE OF INDIANA
 JEFFERY K. SMITH
 8/30/22

JOB NUMBER
20019.01
 SHEET
C901
 DATE
AUGUST 30, 2022



DATE	
REVISION	
SYMBOL	
SCALE	AS SHOWN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	SANITARY SEWER PLAN AND PROFILE AND LATERAL LOCATIONS
SEAL	
JOB NUMBER	20019.01
SHEET	C902
DATE	AUGUST 30, 2022

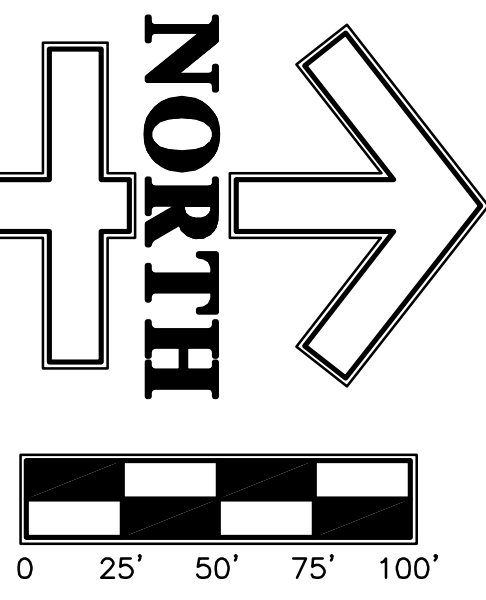
PROJECTS plus
GREENWOOD SURVEYING COMPANY
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
(317)-882-5003



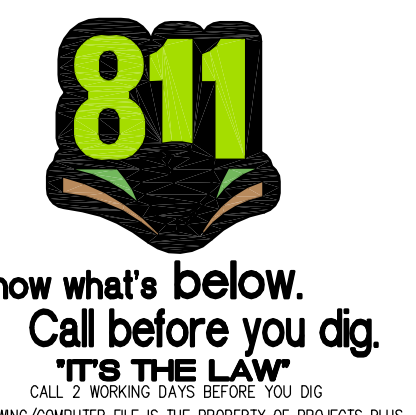
SANITARY NOTE:
WHERE THE SANITARY DRAINAGE SYSTEM CAN DISCHARGE INTO THE SEWER BY GRAVITY FLOW, THE LOWEST FLOOR ELEVATION WHERE A PLUMBING FIXTURE OR FLOOR DRAIN IS INSTALLED MUST BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE LOWEST DOWNSTREAM OR UPSTREAM MANHOLE CASTING NEAREST TO THE SUBJECT LATERAL CONNECTION.

- LEGEND :**
- 27 LOT NUMBER
 - 754.50 PROPOSED EARTHEN PAD ELEVATION
 - 65 L.F. OF 6" LAT. 205' FROM STR. #14 PROPOSED 6" SERVICE LATERAL
 - PROPOSED LATERAL DATA
 - PROPOSED SANITARY SEWER W/ MANHOLE
 - PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT AND ASSEMBLY
 - EXISTING SANITARY SEWER W/ MANHOLE
 - EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
 - EXISTING CONTOUR LINE
 - S.S.D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
 - D.&U.E. DRAINAGE AND UTILITY EASEMENT
 - B.S.L. BUILDING SETBACK LINE
 - GRANULAR BACKFILL REQUIRED

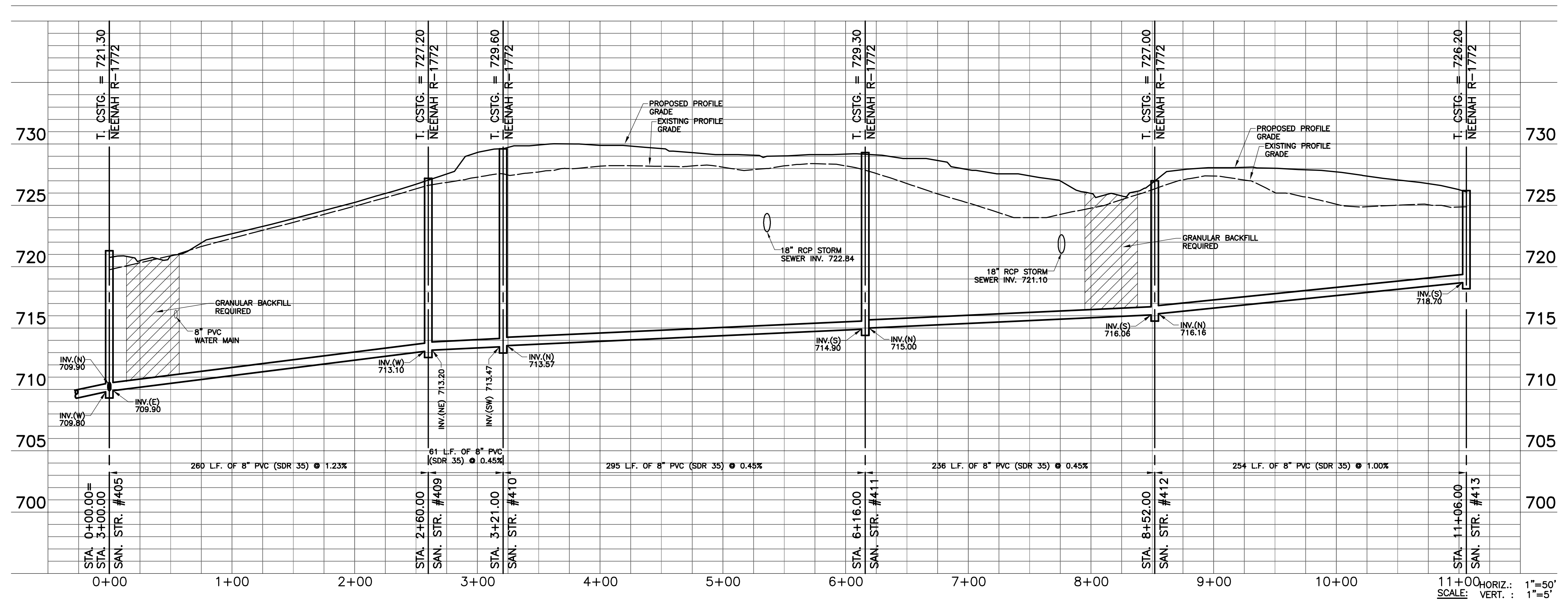
- NOTICES AND PERMITS**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
 - THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE, AS-BUILT FIELD INFORMATION AND PUBLIC INFORMATION. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR LOCATION AVAILABLE. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CALL INDIANA UNDERGROUND 811 - 48 HRS. PRIOR TO CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.
- BENCHMARK INFORMATION**
- SITE ELEVATIONS ARE BASED ON GPS GEOID "G2012bu7" USING A PROJECTION OF "INDIANA EAST" AND DATUM NAD83 NO TRANS.
 - ONSITE BENCHMARK - ELEVATION 740.45 (NAVD 1983) RAILROAD SPIKE FOUND IN THE CENTERLINE OF BERRY ROAD AND CURRY ROAD (MARKER FOR THE S.E. CORNER, N.E. 1/4, SEC. 3-113N-R3E)



- GENERAL NOTES**
- NONE OF THE SANITARY SEWER IN THIS PROJECT ARE TO BE CONSTRUCTED UNTIL THE LETTER OF APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT HAS BEEN RECEIVED BY THE ENGINEER AND A COPY FORWARDED TO THE CONTRACTOR.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.
 - IF ALTERNATE STRUCTURES ARE TO BE SUPPLIED, SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED IN WRITING PRIOR TO INSTALLATION.
 - SANITARY LATERALS SHALL BE LAID AT A GRADE NOT LESS THAN 1.08% TO A DEPTH AT THE PROPERTY LINE OF NOT LESS THAN 6.00 FEET. CONTRACTOR TO PROVIDE 100% WATER TIGHTNESS, AND A 2" DIA. PVC PIPE EXTENDING 4" ABOVE GRADE, ADDITIONAL 1/2" METAL LOCATOR ROD OR MAGNETIC LOCATOR TAPE SHALL BE INSTALLED AT THE END OF PIPE WITHIN 3' OF FINISH GRADE.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE AVAILABLE TO THE BUILDER, DIMENSIONS TO LOCATE SEWER STUBS AND/OR ANY UTILITY CONDUIT STUBS INSTALLED.
 - ALL UTILITY CROSSINGS OR TRENCHES WITHIN (5) FEET OF THE EDGE OF OF PAVEMENT SHALL BE BACKFILLED TO THE SUBGRADE WITH GRANULAR MATERIAL. THE UPPERMOST 48" OF GRANULAR MATERIAL SHALL BE #53 STONE) AND COMPACTED IN SIX INCH LIFTS.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL BETWEEN WATER MAINS, SANITARY & STORM SEWERS, ALSO A MINIMUM OF 10" HORIZONTAL SEPARATION BETWEEN WATER MAINS & SANITARY SEWER
 - ALL SANITARY PIPES GREATER THAN 15 FEET DEEP SHALL BE RATED AS HEAVY WALL S.D.R.-26.
 - EXISTING WELLS AND SEPTIC SYSTEMS ON THIS SITE MUST BE PROPERLY ABANDONED WITH PLANNING AND ZONING OR HEALTH DEPARTMENT PERSONNEL PRESENT.
- FOR EASEMENT LOCATIONS AND DESIGNATIONS SEE FINAL RECORD PLAT AND RESTRICTIONS



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DATE	
REVISION	
SYMBOL	
SCALE	AS SHOWN
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS

PROJECT: BERRY CHASE - SECTION ONE
WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA

TITLE: SANITARY SEWER PLAN AND PROFILE AND LATERAL LOCATIONS

SEAL: LEFFERY K. SMITH, REGISTERED PROFESSIONAL ENGINEER, No. 19419, STATE OF INDIANA, 8/30/22

JOB NUMBER: 20019.01
SHEET: C903

DATE: AUGUST 30, 2022

INDEX OF REQUIRED INFORMATION FOR CONSTRUCTION STORM WATER POLLUTION PREVENTION FOR BERRY CHASE - SECTION ONE

Table with columns: ELEMENT SHEET, ELEMENT SHEET, ELEMENT SHEET, ELEMENT SHEET, ELEMENT SHEET. Lists various sheet references for erosion control plan index.

- A2. VIGNY MAP ON TITLE SHEET - SEE SHEET C101
A3. BERRY CHASE - SECTION ONE IS A PROPOSED RESIDENTIAL SUBDIVISION WITH WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA. THE CONSTRUCTION IMPROVEMENTS SHALL CONSIST OF ASPHALT PAVEMENT AND CONCRETE CURBS, CONCRETE WALKS, STORM SEWERS, SANITARY SEWERS, WATER MAIN EXTENSION AND EARTHWORK FOR 40 RESIDENTIAL LOTS.

- B1. POTENTIAL STORM WATER POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE GASOLINE, OIL AND OTHER FLUIDS FROM CONSTRUCTION EQUIPMENT, CONCRETE, ASPHALT AND SEDIMENT LOADED RUNOFF. CONTRACTOR SHALL ESTABLISH AN EMPLOYEE PARKING AREA AND VEHICLE MAINTENANCE AREA AS SHOWN ON THE PLAN(S). A PROPER CONCRETE WASHOUT AREA SHALL ALSO BE ESTABLISHED AS SHOWN ON THE PLAN(S). THIS WASHOUT PIT SHALL MEET REQUIREMENTS SET FORTH IN THE CURRENT I.S.W.Q.M. FOR DETAIL OF WASHOUT PIT SEE SHEET C1202.

- B2. A CONSTRUCTION ENTRANCE LOCATION IS SHOWN ON STORM SEWER POLLUTION PREVENTION PLAN(S) - SEE SHEET(S) C1001-C1005, FOR SPECIFICATIONS AND DETAILS REGARDING THE ENTRANCE IS SHOWN STORM WATER POLLUTION PREVENTION DETAIL SHEET, SEE SHEET C1202
B3. SURFACE STABILIZATION METHODS SHOWN ON STORM WATER POLLUTION PREVENTION SHEET(S), SEE SHEET(S) C1001-C1005, FOR DETAIL. SEE GENERAL NOTE ON THE STORM WATER POLLUTION PREVENTION SHEET(S), CONTRACTOR SHALL INSTALL THE REQUIRED SEEDING, MULCH BLANKETS OR OTHER SURFACE STABILIZATION MEASURES SHOWN ON THE PLAN(S).

- B4. SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW SHOWN ON STORM SEWER POLLUTION PREVENTION PLAN(S) - SEE SHEET(S) C1001-C1005, DETAIL ON SHEET C1202. CONTRACTOR TO GRADE DIMENSIONARY DITCHES TO CHANNEL WATER AS CONSTRUCTION PROCEEDS SO THAT SEDIMENT IS NOT ALLOWED TO FLOW UNFILTERED. NORTH AMERICAN GREEN SS-150 SHALL BE UTILIZED.
B5. SEDIMENT CONTROL MEASURES FOR SHEET FLOW SHOWN ON STORM SEWER POLLUTION PREVENTION PLAN(S) - SEE SHEET(S) C1001-C1005, DETAIL ON SHEET C1201. CONTRACTOR TO ENSURE ALL REQUIRED MEASURES OF FILTER FENCE ARE INSTALLED AND REQUIRED VEGETATIVE FILTER STRIPS ARE MAINTAINED.

- A. DETENTION PONDS BANK EROSION SHOULD BE ADDRESSED AS SOON AS IT BECOMES VISIBLE BY FILLING THE ERODED AREA WITH SUITABLE SOIL AND ESTABLISHING VEGETATION IMMEDIATELY, PREFERABLY BY SOODING. THE SAME MEASURE SHOULD BE USED FOR STEEP BANKS OR ANY BECOMING SHALLOWS. THE PONDS SHOULD ALSO BE MONITORED FOR SEDIMENT. IF THE BOTTOM OF THE POND RECEIVED SIGNIFICANT SEDIMENT (LESS THAN 2 FEET DEEP), THE SEDIMENT SHOULD BE REMOVED AND REPLACED ON-SITE. AN ENGINEER SHOULD BE CONTACTED TO IDENTIFY THE SOURCE AND RECOMMEND REPAIRS.

STANDARD EROSION NOTES:

- 1) IF ANY EXPORT OF MATERIAL SHALL OCCUR, A MODIFICATION OF THE S.W.P.P.P. IS REQUIRED.
2) POST CONTRACTORS/PERMIT HOLDERS BOARD, I.D.E.M. N.O.I. AND S.W.P.P.P. MUST BE DISPLAYED.
3) SILT FENCE TO BE NUTEC 3-NWS 6 APPROVED EQUAL.

- GENERAL NOTES:
1. PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, SHALL INSPECT THE SITE FOR STORM WATER POLLUTION PREVENTION DEVICES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY 1/2 INCH RAIN EVENT.

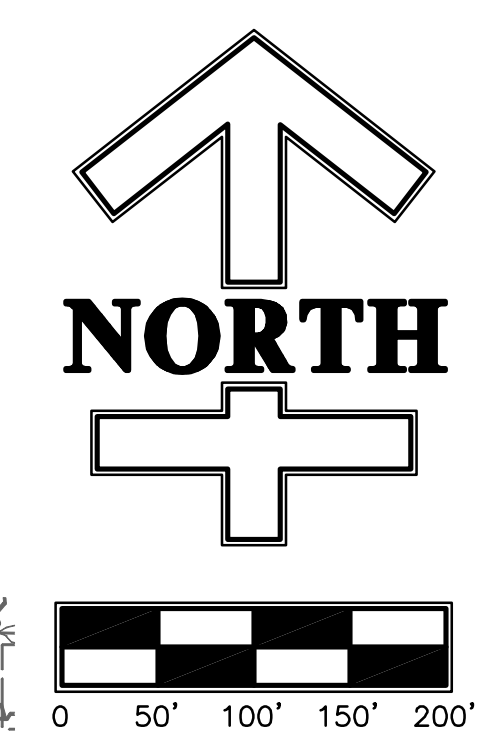
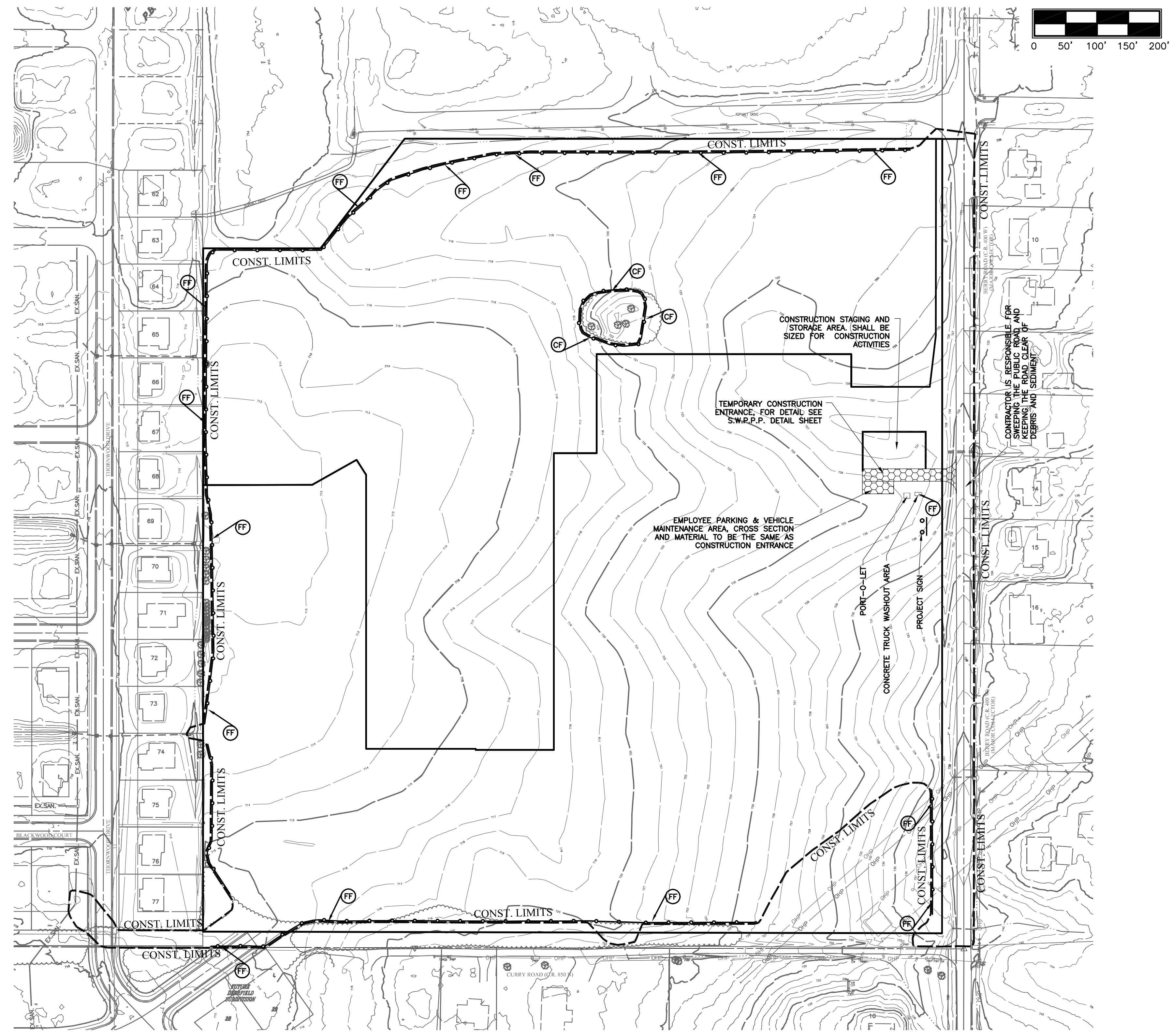
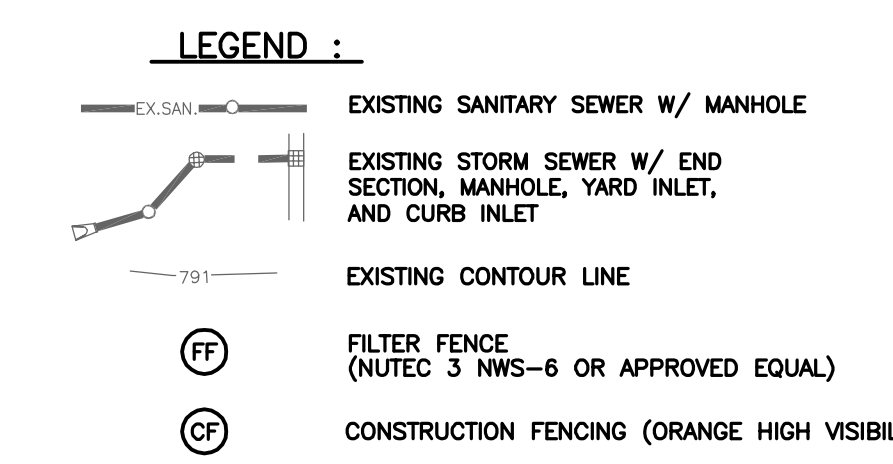


Table with columns: DATE, REVISION, SYMBOL, SCALE, DRAWN, CHECKED, CERTIFIED. Includes project title 'BERRY CHASE - SECTION ONE' and 'STORM WATER POLLUTION PREVENTION PLAN (INITIAL PRE CONST.)'.

PROJECTS plus GREENWOOD SURVEYING COMPANY logo and contact information for Jeffery K. Smith, Professional Engineer, No. 19419.

Professional Engineer seal for Jeffery K. Smith, No. 19419, State of Indiana, dated 8/30/22.

811 logo and slogan 'Know what's below. Call before you dig. IT'S THE LAW' with website URL www.itslaw.com.

Job number 20019.01, sheet C1001, and date AUGUST 30, 2022.






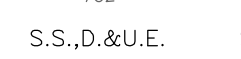
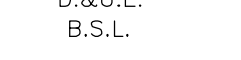







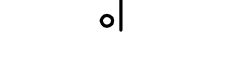


GENERAL NOTES:

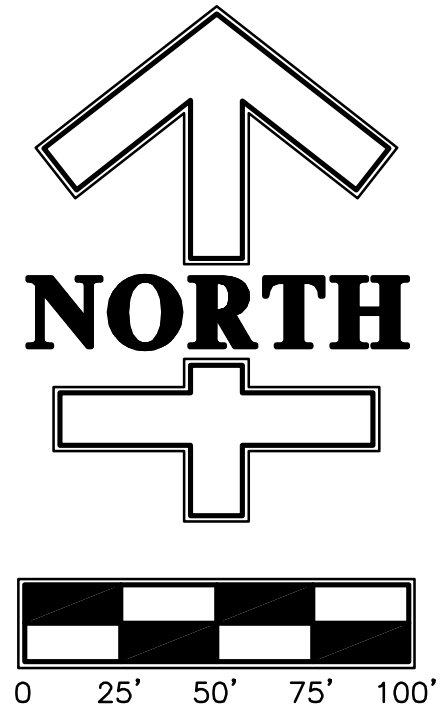
1. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDEM "STORMWATER QUALITY MANUAL" AND THE SSCS "FIELD OFFICE TECHNICAL GUIDE".
2. TEMPORARY SEEDING - THE AREAS WHERE STRIPPING, CUTS OR FILLS HAVE BEEN GRADED SHALL BE SEED FOR SILT AND EROSION PROTECTION AS PER I.S.W.Q.M. SPECIFICATIONS (TEMPORARY SEEDING). SEEDING SHALL BE PER THE SEEDING SCHEDULE SHOWN ON THE EROSION CONTROL DETAIL SHEET.
3. PERMANENT SEEDING - THE AREAS WHERE STRIPPING, CUTS OR FILLS HAVE BEEN GRADED, AND PERMANENT VEGETATIVE COVER REQUIRED, SHALL BE SEED FOR SILT AND EROSION PROTECTION AS PER I.S.W.Q.M. SPECIFICATIONS (PERMANENT SEEDING). SEEDING SHALL BE PER THE SEEDING SCHEDULE SHOWN ON THE EROSION CONTROL DETAIL SHEET.
4. MULCHING - MULCHING IS REQUIRED FOR ALL TEMPORARY AND PERMANENT SEEDING AREAS AS TO PREVENT REMOVAL BY WIND OR WATER. MULCHING SHALL BE ANCHORED AS OUTLINED IN I.S.W.Q.M. SPECIFICATIONS (MULCHING), BY A COMBINATION OF THE FOLLOWING:
 - A. MULCH ANCHORING TOOL OR FARM DISK
 - B. CLAYING WITH DOZER TRACKS
 - C. WOOD HYDROMULCH FIBERS
 - D. SYNTHETIC TACOPERS, BINDER OR SOLID STABILIZERS
 - E. NETTING
5. EROSION CONTROL BLANKET/NETTING - BLANKET IS REQUIRED AT SLOPED AREAS AND CONVEYANCE CHANNELS TO PREVENT EROSION AND PROTECT SOIL AND SEEDING FROM WATER RUNOFF. EROSION CONTROL BLANKETS SHALL BE INSTALLED PER CURRENT I.S.W.Q.M. SPECIFICATIONS (SURFACE STABILIZATION).
6. WATER QUALITY MAINTENANCE - AT THE COMPLETION OF CONSTRUCTION ALL EXCESS SOIL AND OTHER MATERIAL SHALL BE REMOVED FROM THE SITE TO ENSURE PROPER WATER QUALITY. THE SITE AND ITS STORM WATER CONVEYANCE FACILITIES SHALL BE INSPECTED AT REGULAR INTERVALS AND AFTER ALL MAJOR RAIN EVENTS. THE STORM WATER CONVEYANCE SYSTEMS SHALL BE KEPT FREE OF DEBRIS AND FLUIDS THAT COULD POTENTIALLY POLLUTE STORM WATER RUNOFF.
7. PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, SHALL INSPECT THE SITE FOR STORM WATER POLLUTION DEFICIENCIES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY 1/2 INCH RAIN EVENT.
8. ALL HAZARDOUS MATERIALS USED DURING THE CONSTRUCTION OF THIS SITE SHALL BE HANDLED AT ALL TIMES ACCORDING TO RECOMMENDATIONS IN THE MATERIAL SAFETY DATA SHEETS PROVIDED BY THE MANUFACTURER. SITE CONTRACTOR TO IMPLEMENT A SPILL PREVENTION PLAN PRIOR TO START OF CONSTRUCTION.

STANDARD EROSION NOTES:

- 1) IF ANY EXPORT OF MATERIAL SHALL OCCUR, A MODIFICATION OF THE S.W.P.P. IS REQUIRED.
- 2) POST CONTRACTORS/PERMIT HOLDERS BOARD, I.D.E.M. N.O.I. AND S.W.P.P. MUST BE DISPLAYED.
- 3) SILT FENCE TO BE NUTEC 3-NWS-6 APPROVED EQUAL.
- 4) STATE/COUNTY OFFICIALS HAVE THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS SITE CONDITIONS WARRANT.
- 5) CONCRETE WASTE WATER MUST DISCHARGE INTO AN APPROVED ON-SITE CONTAINMENT UNIT.
- 6) POST CONSTRUCTION PAVEMENT INLET PROTECTION MUST BE INSTALLED PRIOR TO COMPLETION OF THE PROJECT.
- 7) IDEM OCP PERMIT REQUIRES ALL DISTURBED AREAS THAT WILL POTENTIALLY BE IDLE FOR 7 DAYS OR MORE TO BE STABILIZED (SEED, MULCHED, ETC.) IMMEDIATELY.
- 8) FOR EROSION CONTROL IMPLEMENTATION AND MAINTENANCE SCHEDULE SEE "EROSION CONTROL REQUIREMENTS" ON SHEET NO. C1201.
- 9) THE CITY ENGINEER/CITY OF FISHERS HAS THE RIGHT TO REQUIRE ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES IN THE FIELD AS CONDITIONS WARRANT.
- 10) THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREETS.
- 11) THIS SHEET TO BE USED FOR STORMWATER POLLUTION PREVENTION PURPOSES ONLY.
- 12) ALL PORTABLE TOILETS MUST BE ANCHORED.
- 13) CONTRACTOR SHALL INSTALL ALL PROPOSED ROAD STONE SUBBASE AS SOON AS THE STREETS ARE BROUGHT TO GRADE, OR ADDITIONAL GRADE STABILIZATION SHALL BE REQUIRED.
- 14) DURING RESIDENTIAL BUILDING LOT CONSTRUCTION ALL SILT FENCE, INLET PROTECTION, STREET SWEEPING, CONSTRUCTION ENTRANCE, AND CONCRETE WASHOUT REQUIREMENTS ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION BY THE DEVELOPER AND BUILDERS.
- 15) ALL EROSION CONTROL MEASURES INDICATED SHALL BE MAINTAINED BY THE CONTRACTOR AND OWNER, CONTACT PERSON: MICHAEL REEVE - M/R HOMES OF INDIANA, L.P. 8425 WOODFIELD CROSSING BLVD, SUITE 100W INDIANAPOLIS, IN 46240 (704) 363-4491 - MREEVE@MHHOMES.COM



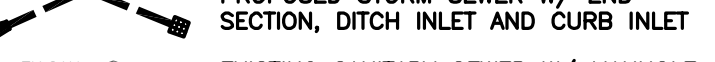


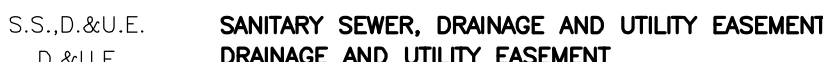

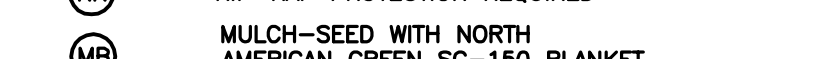
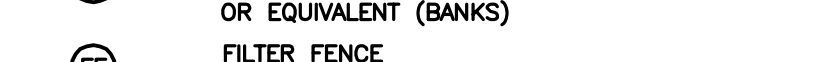
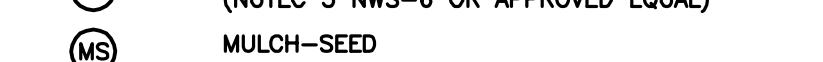



LEGEND :

-  LOT NUMBER
-  PROPOSED SANITARY SEWER W/ MANHOLE
-  PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
-  EXISTING SANITARY SEWER W/ MANHOLE
-  EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
-  EXISTING CONTOUR LINE
-  SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
-  D.U.E.
-  B.S.L.
-  RIP-RAP PROTECTION REQUIRED
-  MULCH-SEED WITH NORTH AMERICAN GREEN SC-150 BLANKET OR EQUIVALENT (BANKS)
-  FILTER FENCE (NUTEC 3 NWS-6 OR APPROVED EQUAL)
-  MULCH-SEED
-  TEMPORARY-SEED
-  DROP INLET PROTECTION
-  SODDING
-  EROSION CONTROL PROJECT SIGN. INCLUDES SWPPP APPROVAL, NAME & PHONE NO. OF CONTACT PERSON, LOCATION OF CONSTRUCTION PLANS



DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
PROJECT	STORM WATER POLLUTION PREVENTION PLAN (CONSTRUCTION/GRADING PHASE)
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>SEAL: JEFFERY K. SMITH, REGISTERED PROFESSIONAL ENGINEER, No. 19419, STATE OF INDIANA</p> <p>Signature: Jeffery K. Smith, 8/30/22</p> <p>811 Know what's below. Call before you dig. IT'S THE LAW</p> <p>CALL TO MARKING SITE BEFORE YOU DIG</p> <p>THIS DRAWING/COMPUTER FILE IS THE PROPERTY OF PROJECTS PLUS. ANY REPRODUCTION OR REUSE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION FROM PROJECTS PLUS IS PROHIBITED. ANY PERSON OR ENTITY USING THIS DOCUMENT FOR ANY PURPOSE OTHER THAN THE PROJECT FOR WHICH IT WAS ORIGINALLY INTENDED, WITH OR WITHOUT PERMISSION FROM PROJECTS PLUS, BY ITS USE AGREES TO INDEMNIFY AND HOLD HARMLESS PROJECTS PLUS FROM ANY LOSS, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES, OCCURRING FROM THEIR USE.</p>	
JOB NUMBER	20019.01
SHEET	C1002
DATE	AUGUST 30, 2022

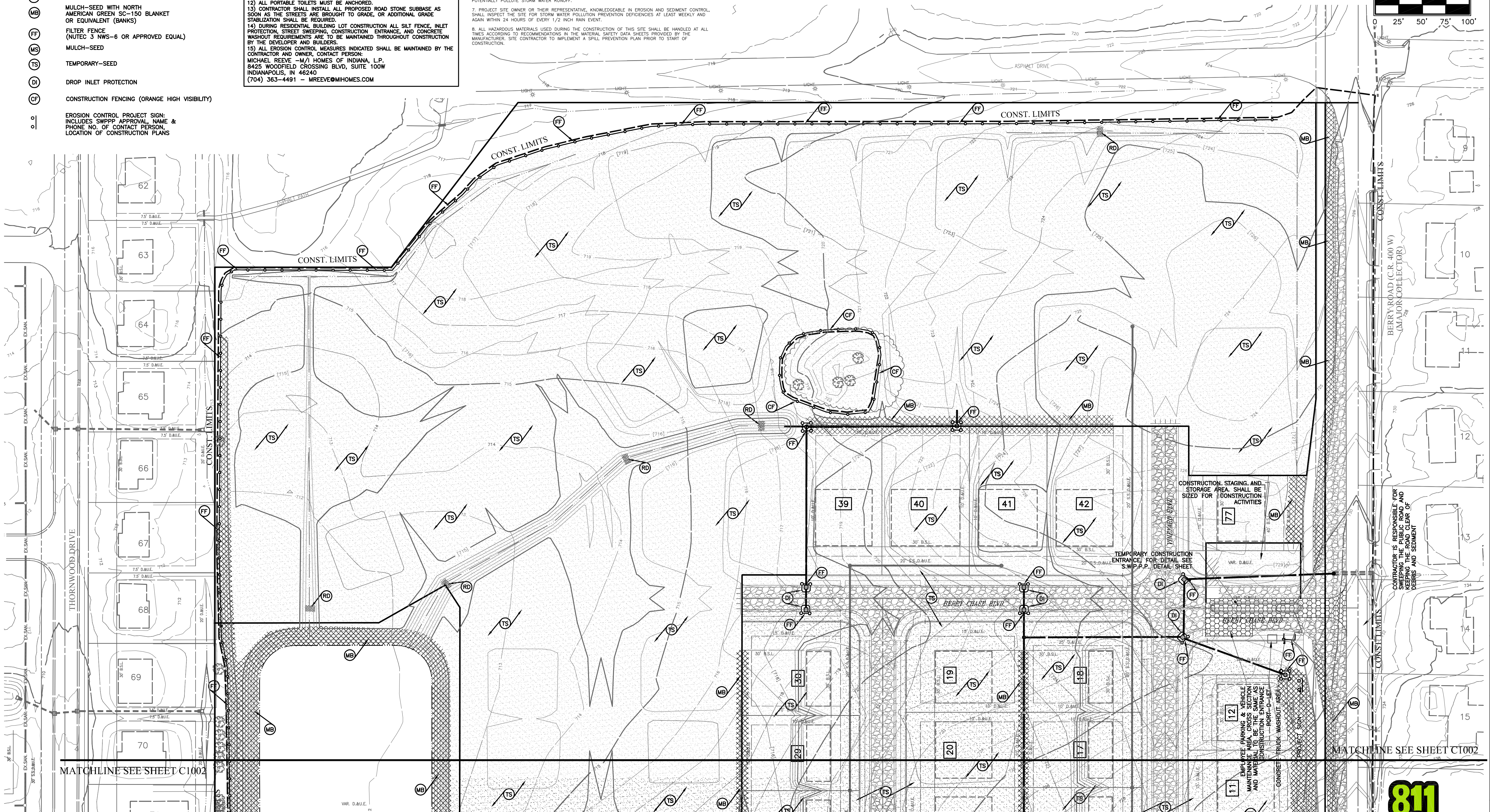
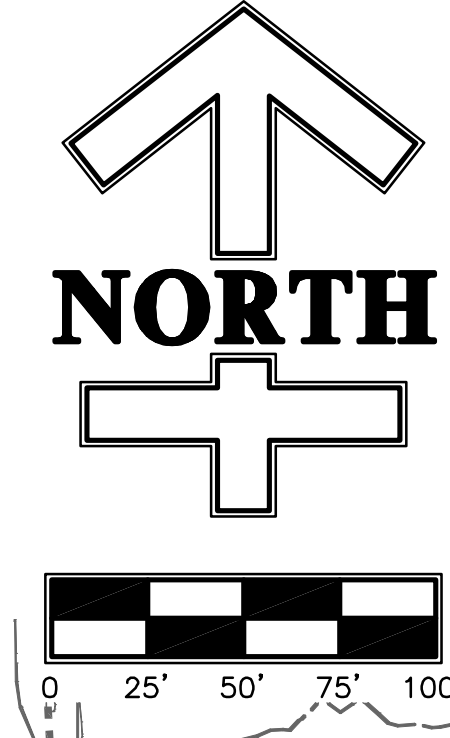
LEGEND :

-  LOT NUMBER
-  PROPOSED SANITARY SEWER W/ MANHOLE SECTION, DITCH INLET AND CURB INLET
-  EXISTING SANITARY SEWER W/ MANHOLE SECTION, DITCH INLET AND CURB INLET
-  EXISTING CONTOUR LINE
-  SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT
-  RIP-RAP PROTECTION REQUIRED
-  MULCH-SEED WITH NORTH AMERICAN GREEN SC-150 BLANKET OR EQUIVALENT (BANKS)
-  FILTER FENCE (NUTEC 3 NWS-6 OR APPROVED EQUAL)
-  MULCH-SEED
-  TEMPORARY-SEED
-  DROP INLET PROTECTION
-  CONSTRUCTION FENCING (ORANGE HIGH VISIBILITY)
-  EROSION CONTROL PROJECT SIGN INCLUDES SWPPP APPROVAL NAME & PHONE NO. OF CONTACT PERSON, LOCATION OF CONSTRUCTION PLANS

STANDARD EROSION NOTES:

- 1) IF ANY EXPORT OF MATERIAL SHALL OCCUR, A MODIFICATION OF THE S.W.P.P.P. IS REQUIRED.
- 2) POST CONTRACTORS/PERMIT HOLDERS BOARD, I.D.E.M. N.O.I. AND S.W.P.P.P. MUST BE DISPLAYED.
- 3) SILT FENCE TO BE NUTEC 3-NWS 6 APPROVED EQUAL.
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- 5) CONCRETE WASTE WATER MUST DISCHARGE INTO AN APPROVED ONSITE CONTAINMENT UNIT.
- 6) POST CONSTRUCTION PAVEMENT INLET PROTECTION MUST BE INSTALLED PRIOR TO COMPLETION OF THE PROJECT.
- 7) IDEM GCP PERMIT REQUIRES ALL DISTURBED AREAS THAT WILL POTENTIALLY BE IDLE FOR 7 DAYS OR MORE TO BE STABILIZED (SEEDED, MULCHED, ETC.) IMMEDIATELY.
- 8) FOR EROSION CONTROL IMPLEMENTATION AND MAINTENANCE SCHEDULE SEE "EROSION CONTROL REQUIREMENTS" ON SHEET NO. C1201.
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- 15) ALL EROSION CONTROL MEASURES INDICATED SHALL BE MAINTAINED BY THE CONTRACTOR AND OWNER, CONTACT PERSON: MICHAEL REEVE - M/J HOMES OF INDIANA, L.P. 8425 WOODFIELD CROSSING BLVD, SUITE 100W INDIANAPOLIS, IN 46240 (704) 363-4491 - MREEVE@MHHOMES.COM

- GENERAL NOTES:**
1. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE IDEM "STORMWATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
 2. TEMPORARY SEEDING - THE AREAS WHERE STRIPPING, CUTS OR FILLS HAVE BEEN GRADED SHALL BE SEEDED FOR SILT AND EROSION PROTECTION AS PER I.S.W.Q.M. SPECIFICATIONS (TEMPORARY SEEDING). SEEDING SHALL BE PER THE SEEDING SCHEDULE SHOWN ON THE EROSION CONTROL DETAIL SHEET.
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 - B. CLEARING WITH DOZER TRACKS
 - C. WOOD HYDROMULCH FIBERS
 - D. SYNTHETIC TACKIFIERS, BINDER OR SOLID STABILIZERS
 - E. NETTING
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 6. WATER QUALITY MAINTENANCE - AT THE COMPLETION OF CONSTRUCTION ALL EXCESS SOIL AND OTHER MATERIAL SHALL BE REMOVED FROM THE SITE, TO ENSURE PROPER WATER QUALITY THE SITE AND ITS STORM WATER CONVEYANCE FACILITIES SHALL BE INSPECTED AT REGULAR INTERVALS AND AFTER ALL MAJOR RAIN EVENTS. THE STORM WATER CONVEYANCE SYSTEMS SHALL BE KEPT FREE OF DEBRIS AND FLUIDS THAT COULD POTENTIALLY POLLUTE STORM WATER RUNOFF.
 7. PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, SHALL INSPECT THE SITE FOR STORM WATER POLLUTION PREVENTION DEFICIENCIES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY 1/2 INCH RAIN EVENT.
 8. ALL HAZARDOUS MATERIALS USED DURING THE CONSTRUCTION OF THIS SITE SHALL BE HANDLED AT ALL TIMES ACCORDING TO RECOMMENDATIONS IN THE MATERIAL SAFETY DATA SHEETS PROVIDED BY THE MANUFACTURER. SITE CONTRACTOR TO IMPLEMENT A SPILL PREVENTION PLAN PRIOR TO START OF CONSTRUCTION.



DATE	REVISION	SYMBOL

SCALE	DRAWN	CHECKED	CERTIFIED
1"=50'	JPH	JKS	JKS

PROJECT: BERRY CHASE - SECTION ONE
 WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
 TITLE: STORM WATER POLLUTION PREVENTION PLAN (CONSTRUCTION/GRADING PHASE)

PROJECTS plus
 GREENWOOD SURVEYING COMPANY
 SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143
 (317)-882-5003

SEAL
 DEFEY K. SUIT
 REGISTERED
 No. 19419
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 Jeffrey K. Suit
 8/30/22



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JOB NUMBER: 20019.01
 SHEET: C1003
 DATE: AUGUST 30, 2022

GENERAL NOTES:

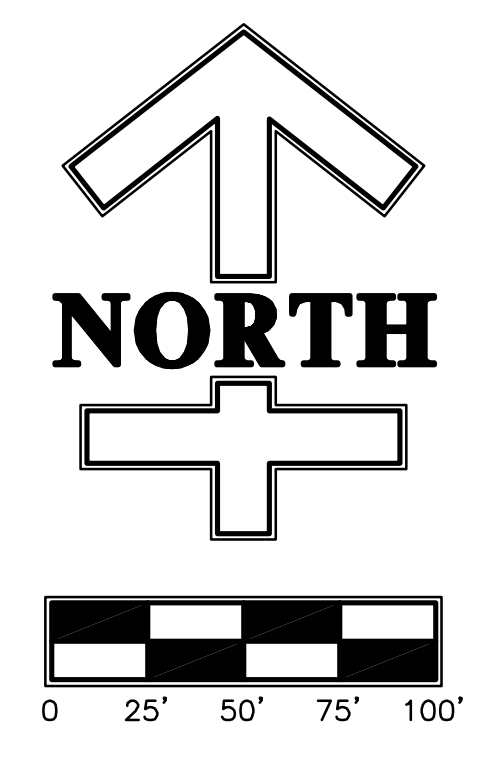
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LEGEND :

- 27 LOT NUMBER
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- EXISTING SANITARY SEWER W/ MANHOLE
- EXISTING STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
- EXISTING CONTOUR LINE
- S.S., D.&U.E. SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT DRAINAGE AND UTILITY EASEMENT BUILDING SETBACK LINE
- B.S.L.
- RR RIP-RAP PROTECTION REQUIRED
- MB MULCH-SEED WITH NORTH AMERICAN GREEN SC-150 BLANKET OR EQUIVALENT (BANKS)
- PS PERMANENT-SEED
- TS TEMPORARY-SEED
- HF FILTER FENCE TO BE PLACED ALONG BACK OF CURB PRIOR TO CONSTRUCTION COMMENCING ON THE LOT. THE FENCE MUST BE MAINTAINED UNTIL STABLE GRASS IS ATTAINED.



DETENTION POND #1
(N.P. = 79,509 S.F.)
NORMAL POOL ELEV. = 709.00
TOP OF BANK ELEV. = 715.00
BOTTOM OF BANK ELEV. = 701.00
10 YR. ELEV. = 711.58
100 YR. ELEV. = 713.78


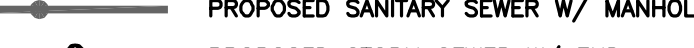










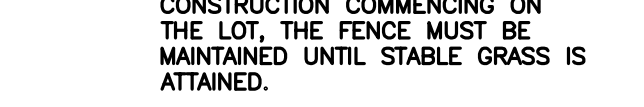
COMMON AREA 'C'
VAR. D.&U.E.

COMMON AREA 'A'
VAR. D.&U.E.



DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	STORM WATER POLLUTION PREVENTION PLAN (POST CONSTR.)
PROJECTS plus GREENWOOD SURVEYING COMPANY SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317) 882-5003	
SEAL	
JOB NUMBER	20019.01
SHEET	C1004
DATE	AUGUST 30, 2022

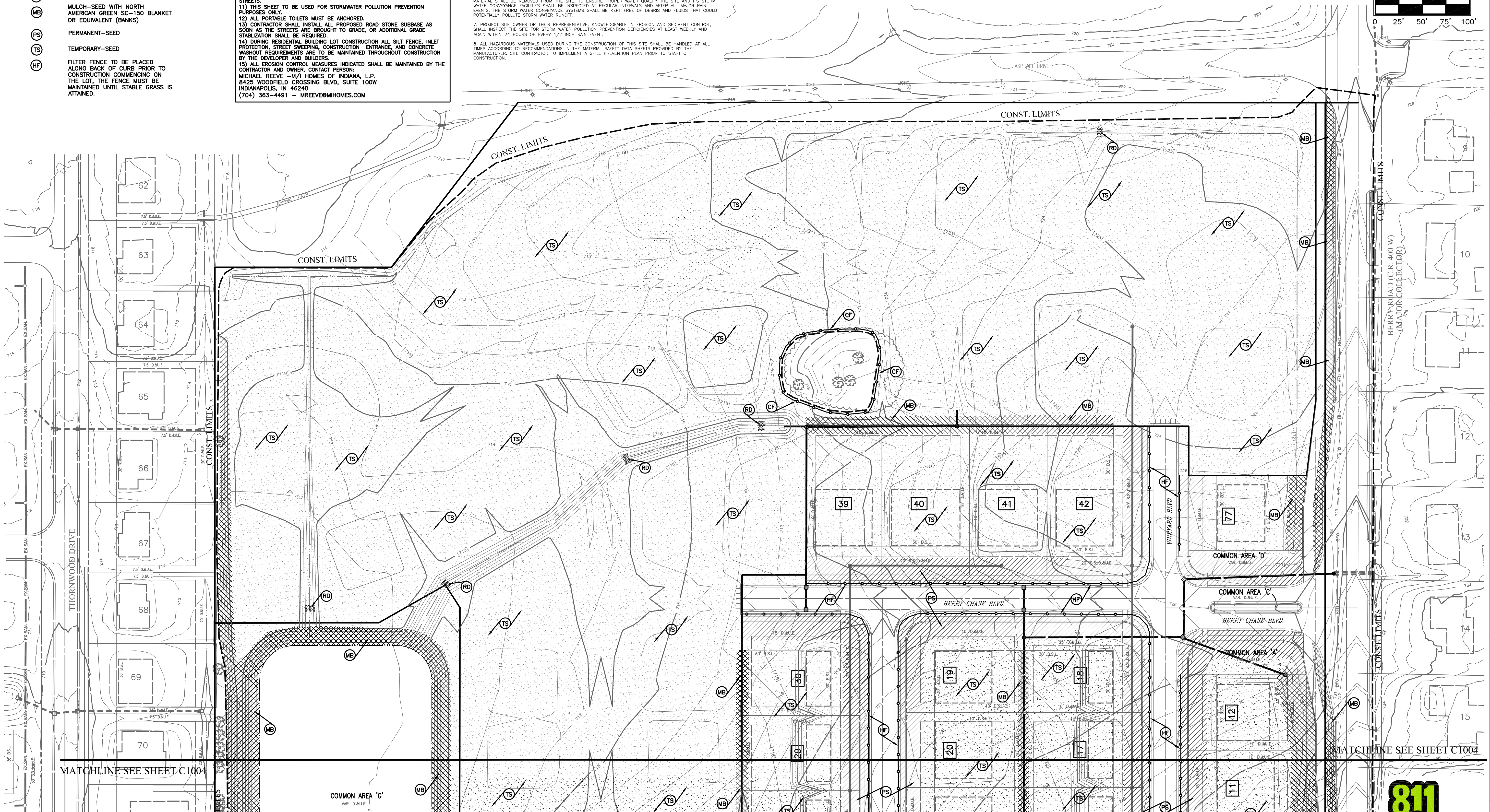
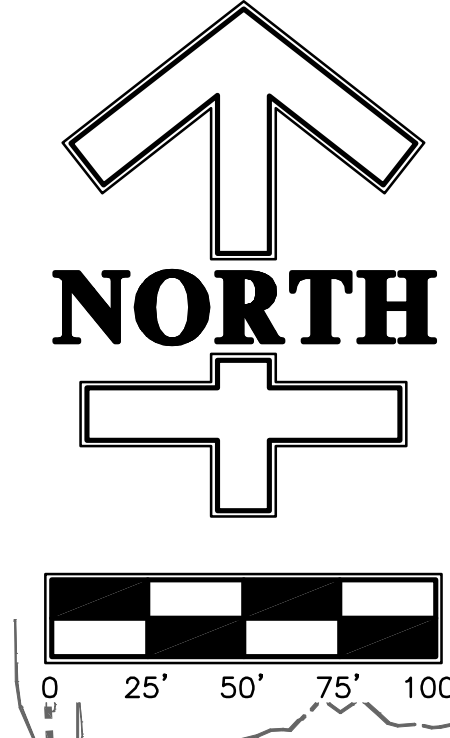
LEGEND :

-  LOT NUMBER
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-  PROPOSED STORM SEWER W/ END SECTION, DITCH INLET AND CURB INLET
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-  MULCH-SEED WITH NORTH AMERICAN GREEN SC-150 BLANKET OR EQUIVALENT (BANKS)
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-  TEMPORARY-SEED
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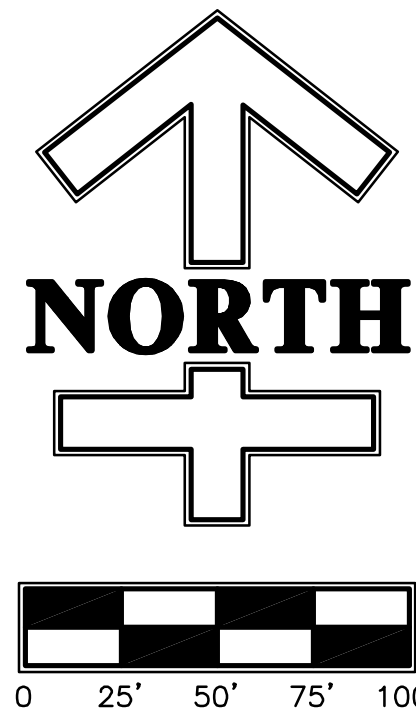


DATE		REVISION		SYMBOL		SCALE	PROJECT
						1"=50'	BERRY CHASE - SECTION ONE
						DRAWN	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
						CHECKED	TITLE
						CERTIFIED	STORM WATER POLLUTION PREVENTION PLAN (POST CONSTR.)
<p>PROJECTS plus</p> <p>GREENWOOD SURVEYING COMPANY</p> <p>SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317) 882-5003</p>							
<p>SEAL</p> <p>JEFFERY K. SMITH REGISTERED No. 19419 STATE OF INDIANA PROFESSIONAL ENGINEER</p> <p><i>Jeffery K. Smith</i> 8/30/22</p>							
<p>JOB NUMBER 20019.01</p> <p>SHEET</p>							
<p>C1005</p>							
<p>DATE AUGUST 30, 2022</p>							



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TOTAL WATERLINE LENGTHS		
PIPE SIZE	PIPE MATERIAL	PIPE TOTAL
3"	HDPE DR-9	0'
6"	PVC C900 DR-14	0'
8"	PVC C900 DR-14	3138'
12"	PVC C900 DR-14	0'
TOTAL =		3138'



NOTICES AND PERMITS

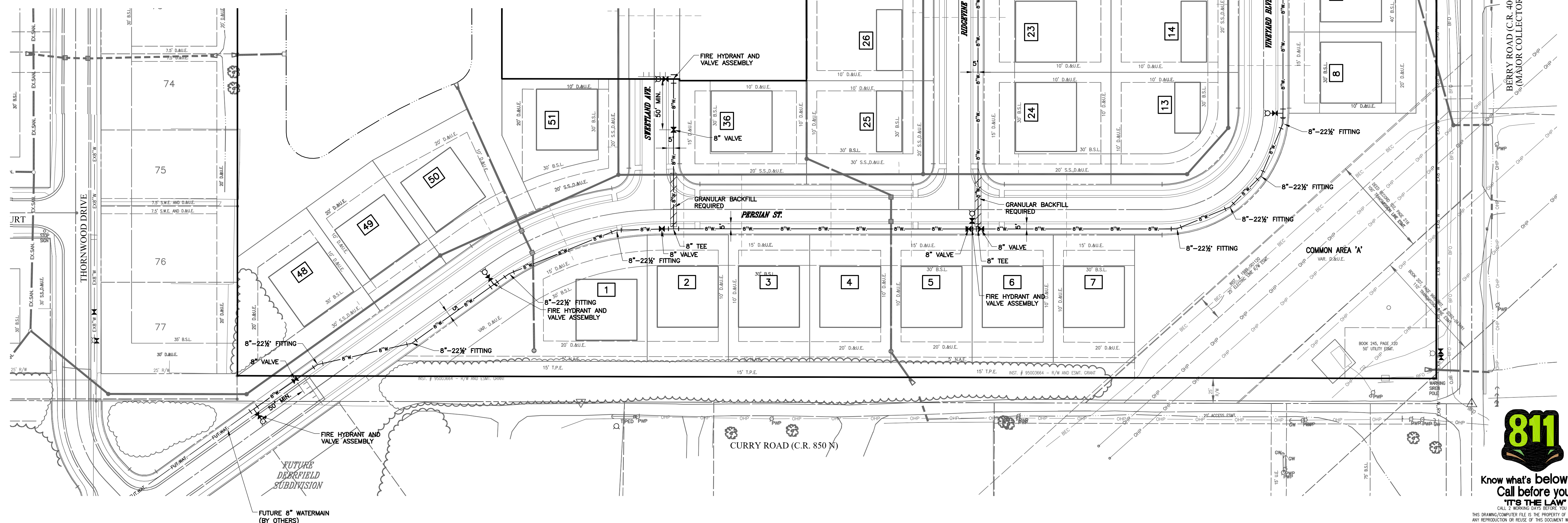
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY OR STATE AGENCIES PRIOR TO STARTING ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING ANY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO STARTING ANY CONSTRUCTION.

BARGERSVILLE UTILITY NOTES:

- THE WATER AND SANITARY SEWER MAINS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET AND CROSS AS AT AS NEAR 90° ANGLE AS POSSIBLE.
- ALL VERTICAL DROPS NEED TO BE CONSTRUCTED WITH DUCTILE IRON PIPING PER BARGERSVILLE UTILITY REQUIREMENTS.

LEGEND :

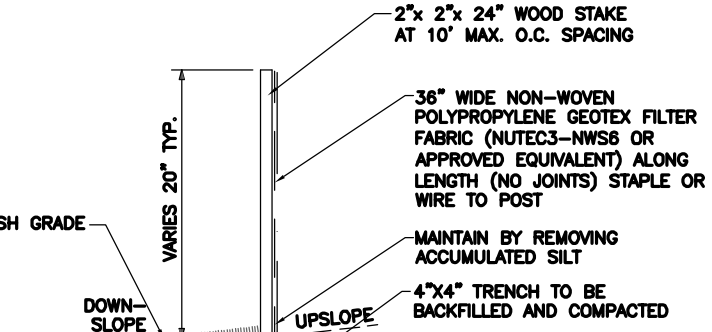
- LOT NUMBER
- PROPOSED SANITARY SEWER W/ MANHOLE
- PROPOSED STORM SEWER W/ END SECTION, MANHOLE, DITCH INLET AND CURB INLET
- PROPOSED WATER LINE W/ VALVE AND FIRE HYDRANT ASSEMBLY
- EXISTING SANITARY SEWER W/ MANHOLE
- EXISTING STORM SEWER W/ END SECTION, MANHOLE, YARD INLET, AND CURB INLET
- EXISTING WATER LINE W/ VALVE AND FIRE HYDRANT ASSEMBLY
- EXISTING TREE/SHRUB ROW, SANITARY SEWER, DRAINAGE AND UTILITY EASEMENT, DRAINAGE AND UTILITY EASEMENT, BUILDING SETBACK LINE
- GRANULAR BACKFILL



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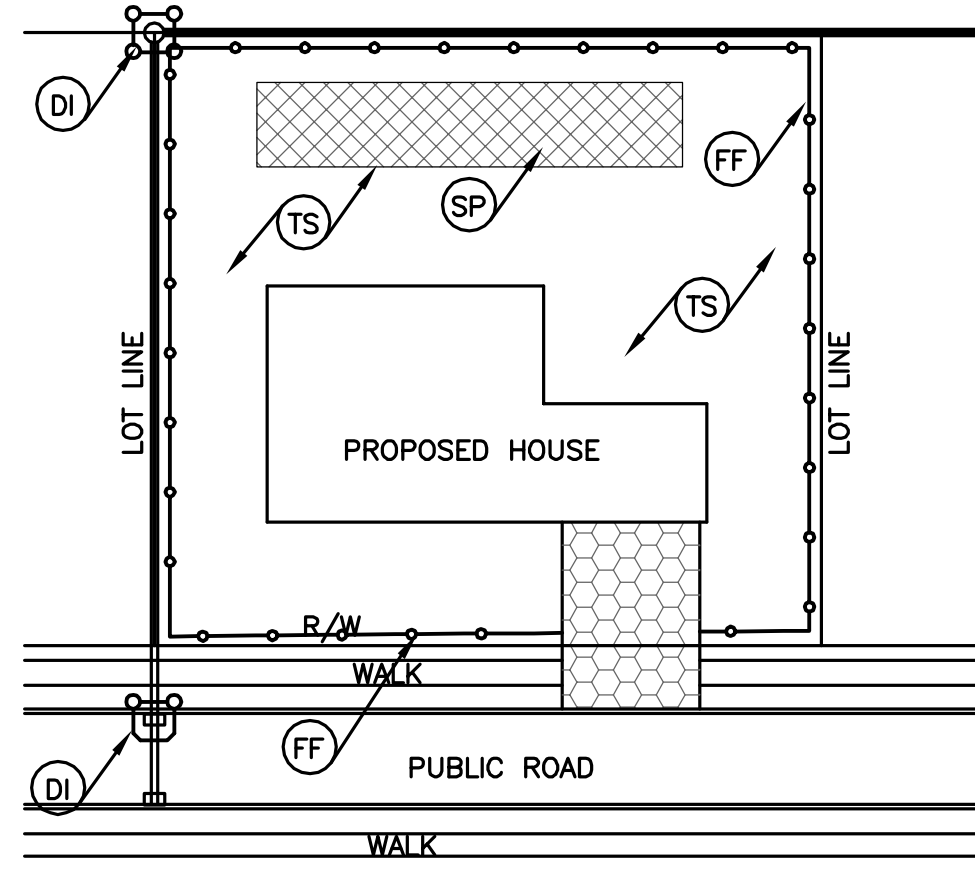
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DATE	
REVISION	
SYMBOL	
SCALE	1"=50'
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
	WATER DISTRIBUTION PLAN
<p>PROJECTS plus GREENWOOD SURVEYING COMPANY</p> <p>SEAL JEFFERY K. SMITH REGISTERED PROFESSIONAL ENGINEER No. 19419 STATE OF INDIANA Jeffery K. Smith 8/30/22</p> <p>SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT 1257 Airport Parkway, Suite A - Greenwood, Indiana 46143 (317)-882-5003</p>	
JOB NUMBER	20019.01
SHEET	C1101
DATE	AUGUST 30, 2022



- 1. INSPECT ONCE PER WEEK OR AFTER EACH RAIN EVENT... 2. IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY...

FILTER FENCE INSTALLATION DETAIL



LEGEND :

- FF FILTER FENCE
TS TEMPORARY SEEDING
DI DROP INLET PROTECTION
SP STOCKPILE PROTECTION
GRAVEL CONSTRUCTION ENTRANCE

INDIVIDUAL LOT EROSION PLAN

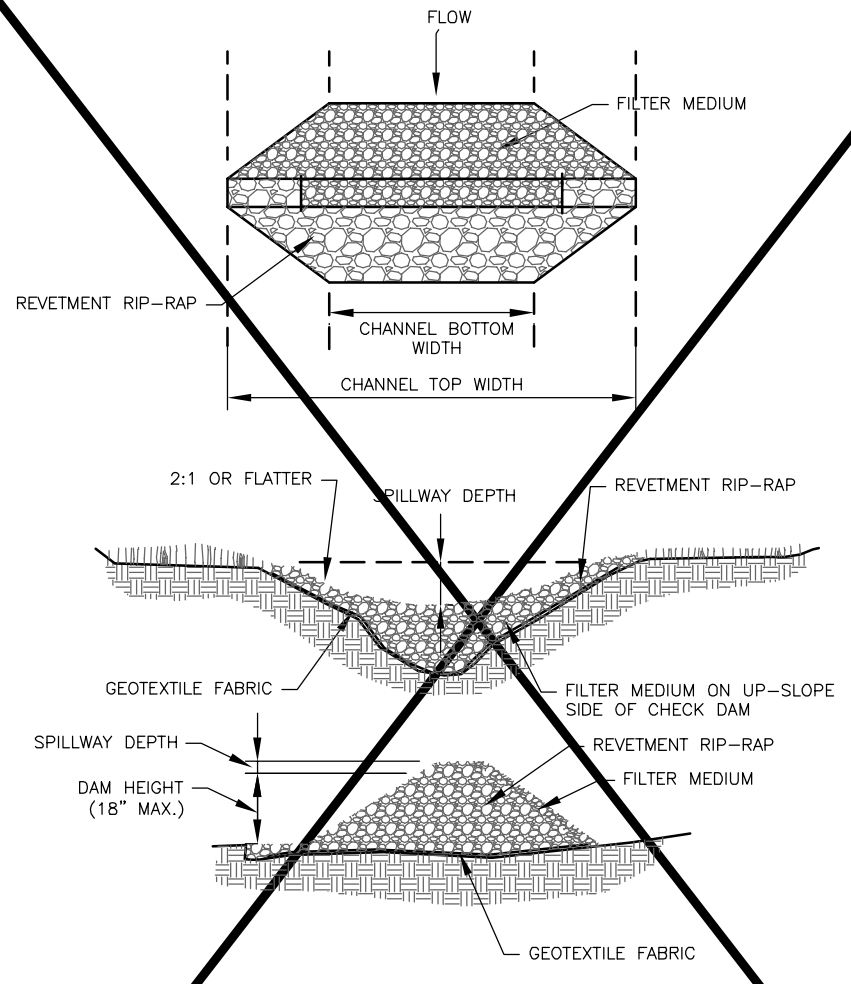
INDIVIDUAL LOT EROSION NOTES :

- 1. ALL EROSION CONTROL MEASURES SHALL BE IN COMPLIANCE WITH THE INDIANA STORM WATER QUALITY MANUAL - PLANNING AND SPECIFICATIONS GUIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL AND POST-CONSTRUCTION WATER QUALITY, OCTOBER 2007.
2. THE SILT FENCE AND APPROPRIATE EROSION CONTROL SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION...
3. CONCRETE WASHOUT BASIN TO BE AVAILABLE WITHIN SUBDIVISION OR BUILDER WILL NEED TO INSTALL ONE.

SECTION 2 - MATERIAL HANDLING AND SPILL PREVENTION PLAN

MATERIAL HANDLING AND SPILL PREVENTION PLAN
IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTORS SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL.

- 1. CONSTRUCTION EQUIPMENT
A. FUELING, LUBRICATION AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION...
B. EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS...



ROCK CHECK DAM DETAIL

SECTION 1 - EMERGENCY RESPONSE NUMBERS

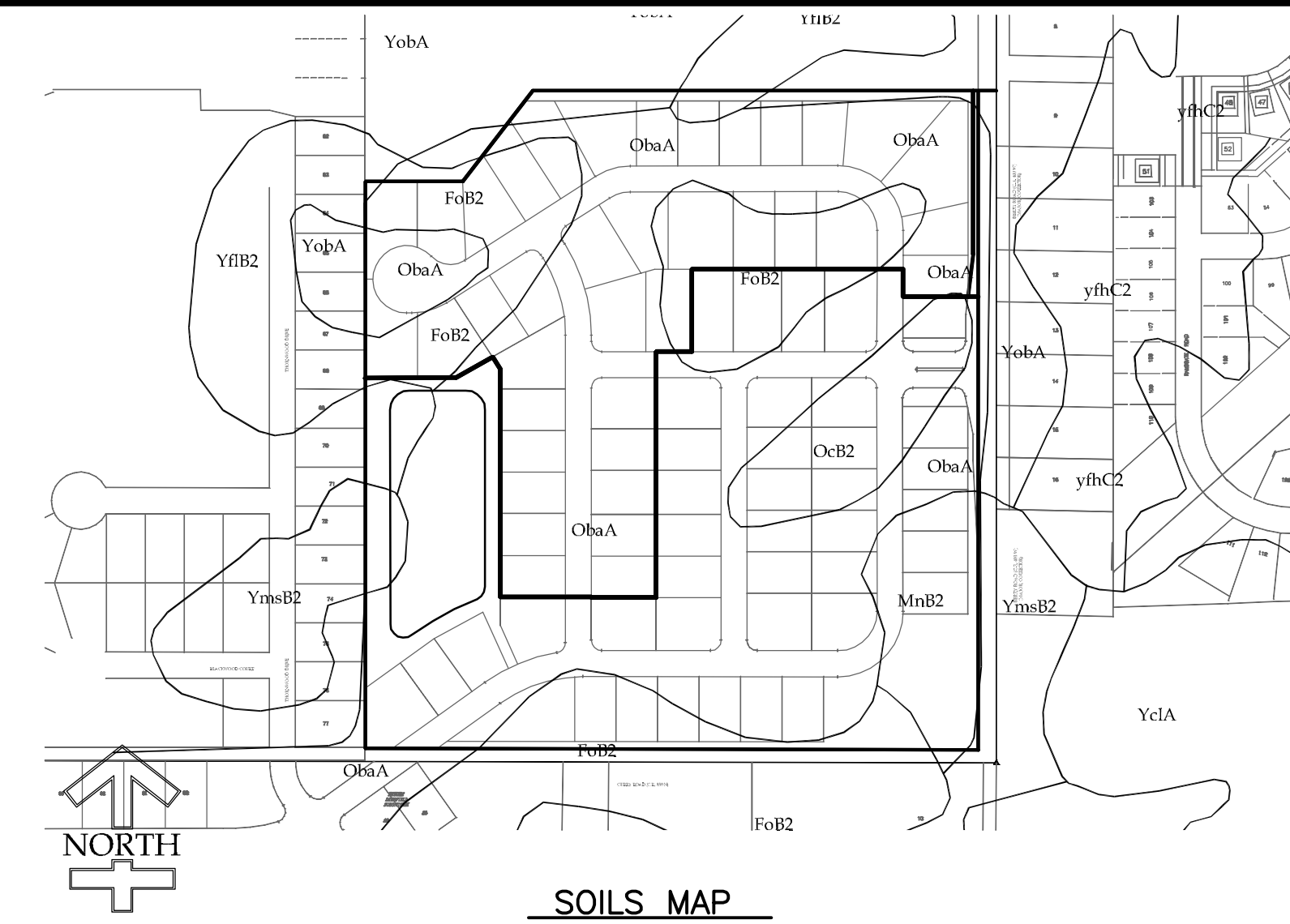
Table listing emergency response numbers for various departments: CITY FIRE DEPARTMENT (EMERGENCY-911), CITY POLICE DEPARTMENT (EMERGENCY-911), INDIANA DEPARTMENT OF NATURAL RESOURCES (812-477-8773), INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (317-233-7745), HAMILTON COUNTY SOIL AND WATER (317-773-2181).

THIS PLAN TO BE USED FOR EROSION CONTROL PURPOSES ONLY. THE CITY/COUNTY ENGINEER HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FIELD AS CONDITIONS WARRANT.

ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL DATED OCTOBER 2007 BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (DEM).

SOILS TYPE LEGEND

- MmB2 MIAMI SILT LOAM, 2 TO 6 PERCENT SLOPES, ERODED. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT ENGINEERING USES ARE MODERATE POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, AND MODERATELY SLOW PERMEABILITY...
Oca OCKLEY LOAM, 0 TO 2 PERCENT SLOPES, ERODED. THE MAIN SOIL FEATURES THAT ADVERSELY AFFECT ENGINEERING USES ARE MODERATE POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, AND SLOW PERMEABILITY...



SOILS MAP

EROSION CONTROL REQUIREMENTS FOR COMPLIANCE WITH IDEM GENERAL PERMIT RULES FOR STORM WATER RUNOFF FROM CONSTRUCTION SITES

- 1. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL DATED OCTOBER 2007 BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (DEM).
2. THE EROSION CONTROL MEASURES INCLUDED IN THIS PLAN SHALL BE INSTALLED PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES...
3. ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH FILTER FABRIC, OR EQUIVALENT BARRIERS AS SHOWN ON THIS PLAN...

EROSION CONTROL CONSTRUCTION SEQUENCE SCHEDULING

Table with columns for Construction Phase, Construction Schedule Considerations, Monitoring and Maintenance Schedule, and Construction Start Date. Rows include Pre-Construction Actions, Construction Access, Sediment Barriers and Traps, Runoff Control, Runoff Conveyance Systems, Land Clearing and Grading, Surface Stabilization, Utility/Pavement Construction, Building Construction, and Landscaping and Final Stabilization.

TEMPORARY SEEDING DATES: Grid showing seeding requirements for Wheat or Rye, Oats, and Annual Ryegrass from Jan to Dec.

SEEDING DATES: Grid showing seeding requirements for Native Seed, Non-irrigated, Irrigated, and Dormant Seeding from Jan to Dec.

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

- * LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.
** INCREASE SEEDING APPLICATION BY 50%

PERMANENT SEEDING DATES SEEDING DATES

Table of seed requirements: KIND OF SEED, 1000 SQ.FT., ACRE, REMARKS. Includes Wheat or Rye, Spring Oats, and Annual Ryegrass.

TEMPORARY SEED MIXTURES

Table of seed mixtures: SPECIES, SEEDING RATE LBS/ACRE, SUITABLE PH, SITE SUITABILITY (DROUGHTY, WELL DRAINED, WET).

PERMANENT SEED MIXTURES

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

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

SELECT A SEEDING MIXTURE BASED ON PROJECTED USE OF THE AREA, WHILE CONSIDERING BEST SEEDING DATES.

SEEDING PREPARATION

Revision table with columns for Date, Revision, Symbol, Scale, and Name. Includes entries for JPH, JKS, and JKS.

Scale table with columns for Scale, None, Drawing, Checked, and Certified. Includes entries for JPH, JKS, and JKS.

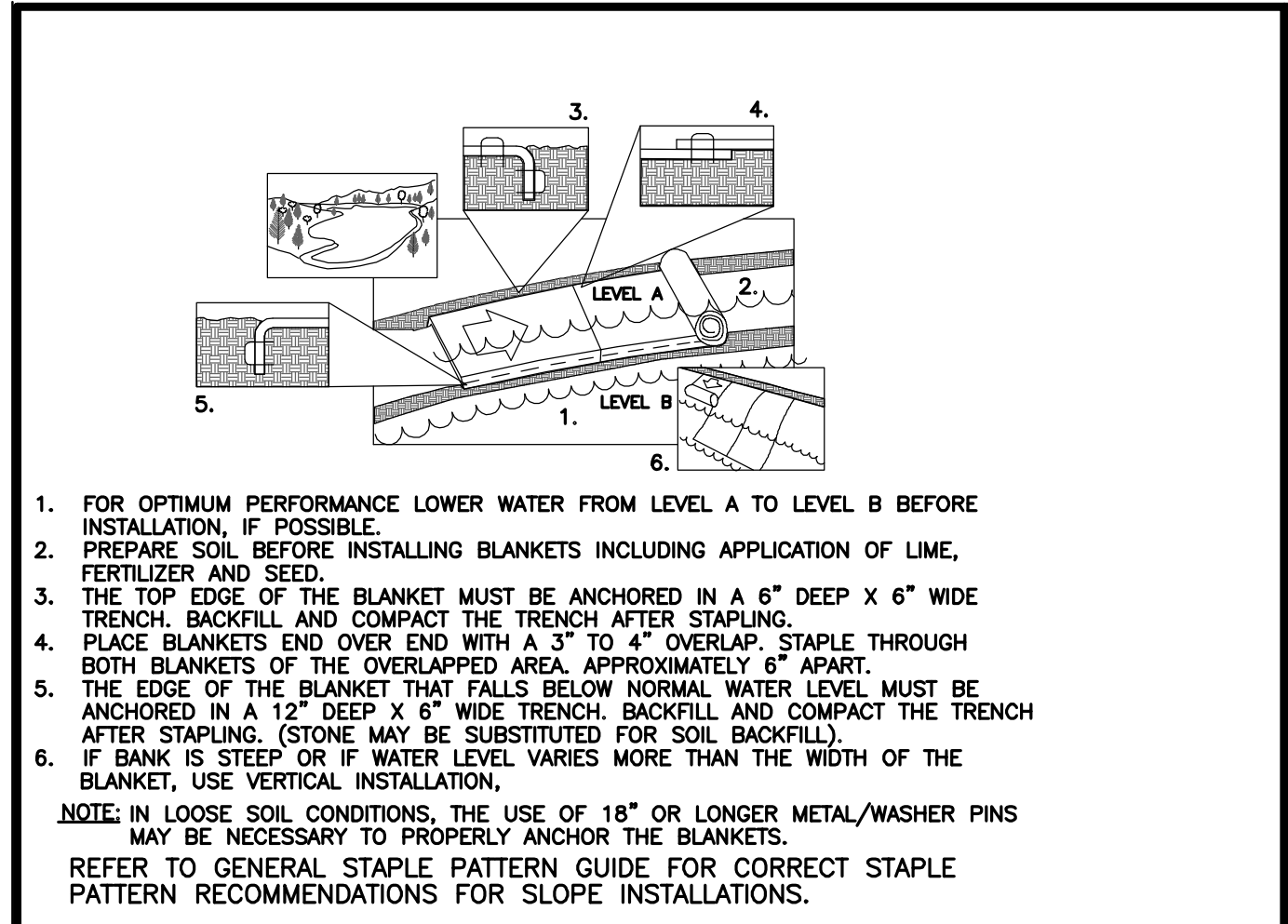
PROJECT: BERRY CHASE - SECTION ONE
WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA

PROJECT TITLE: STORM WATER POLLUTION PREVENTION PLAN DETAILS

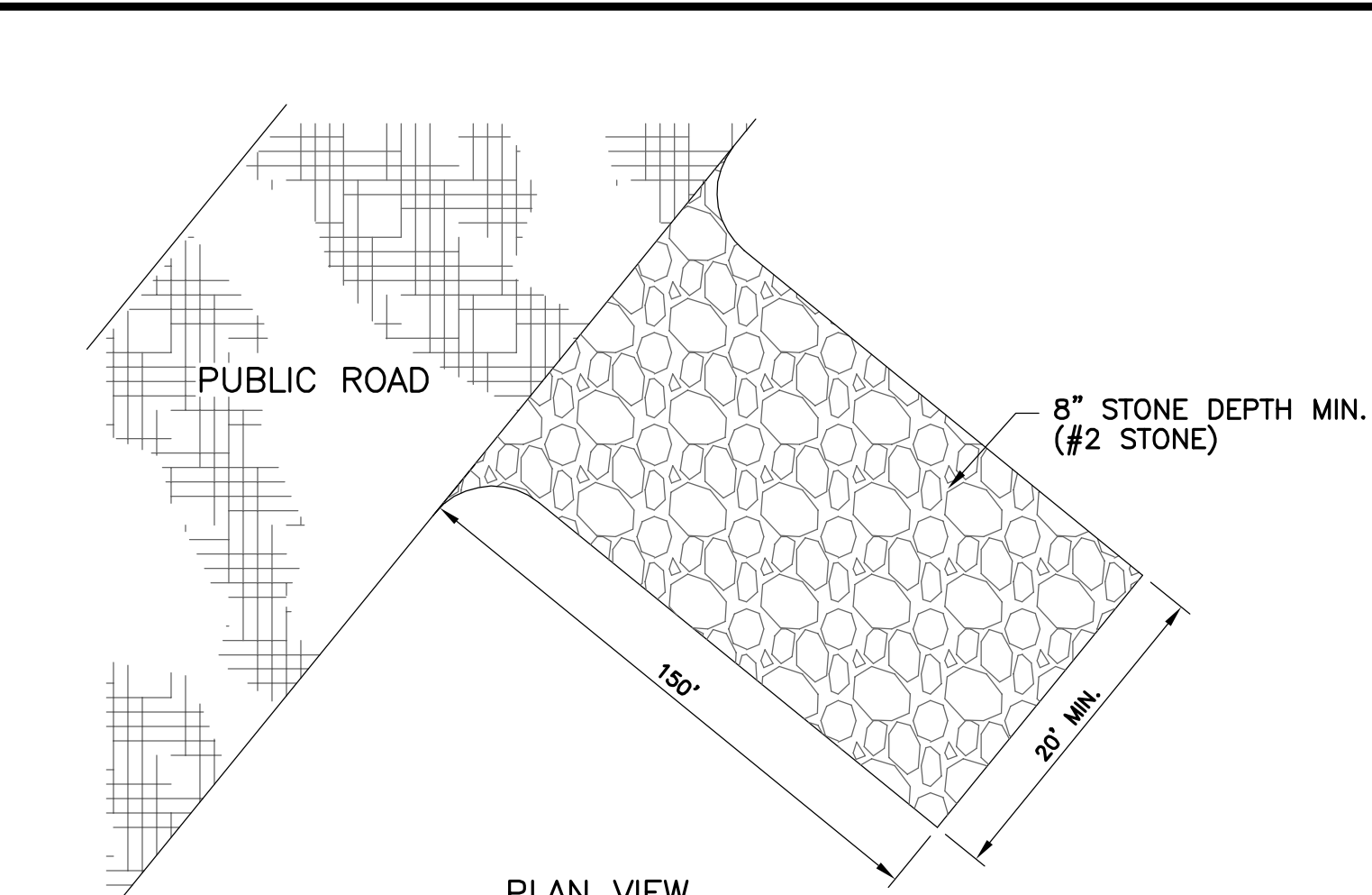
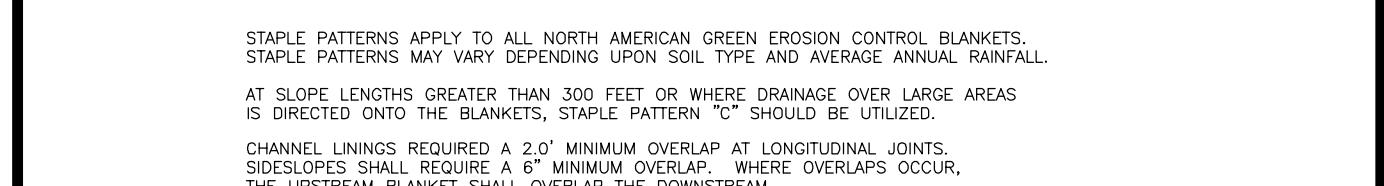
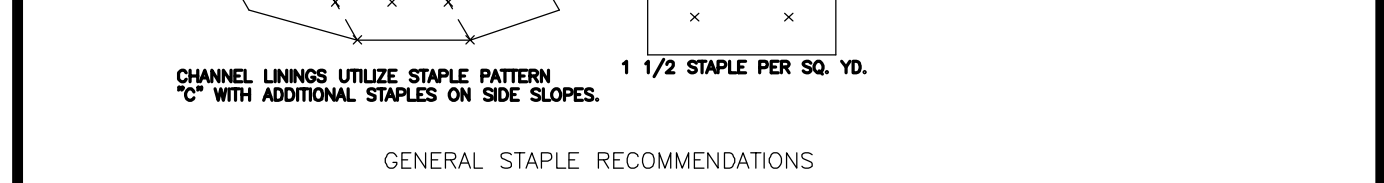
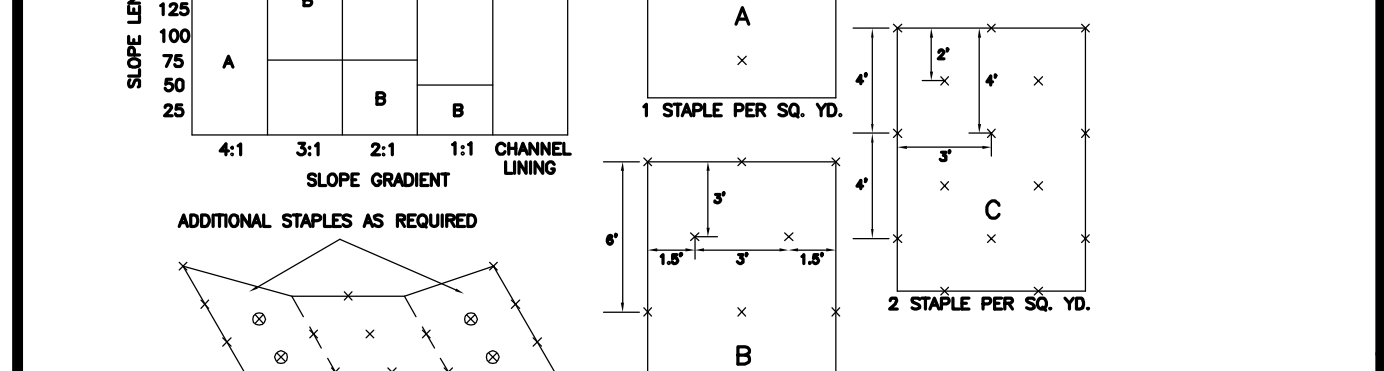
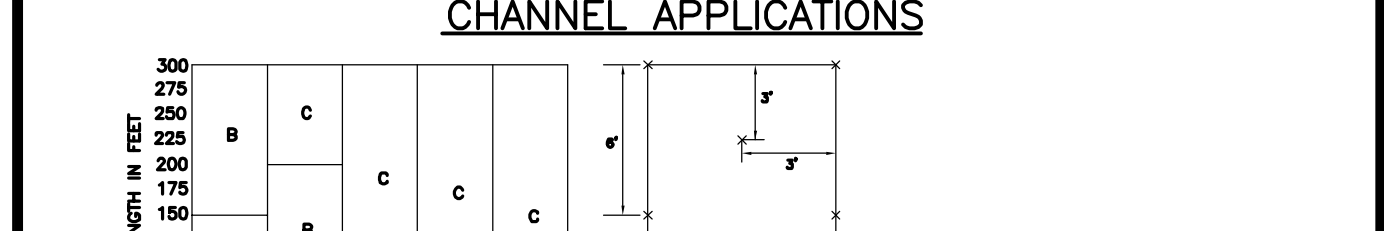
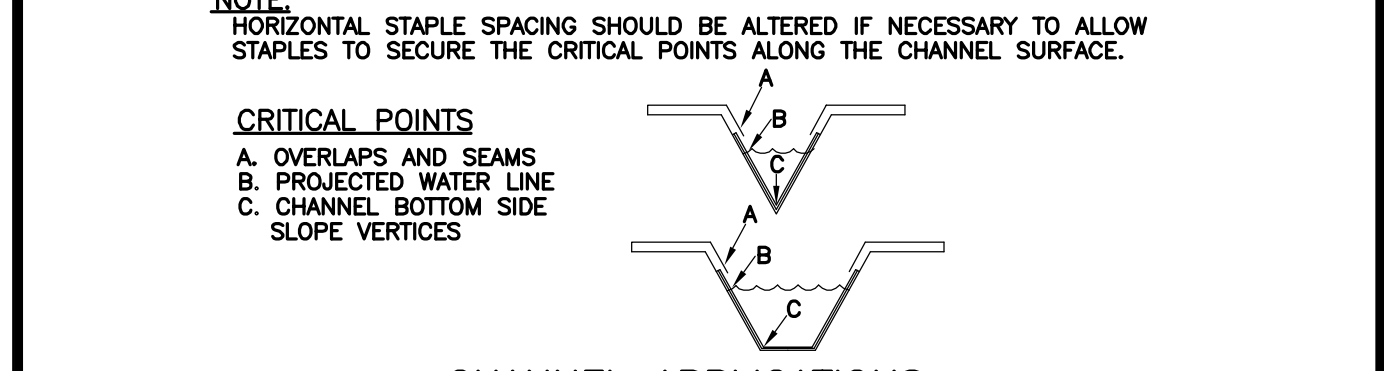
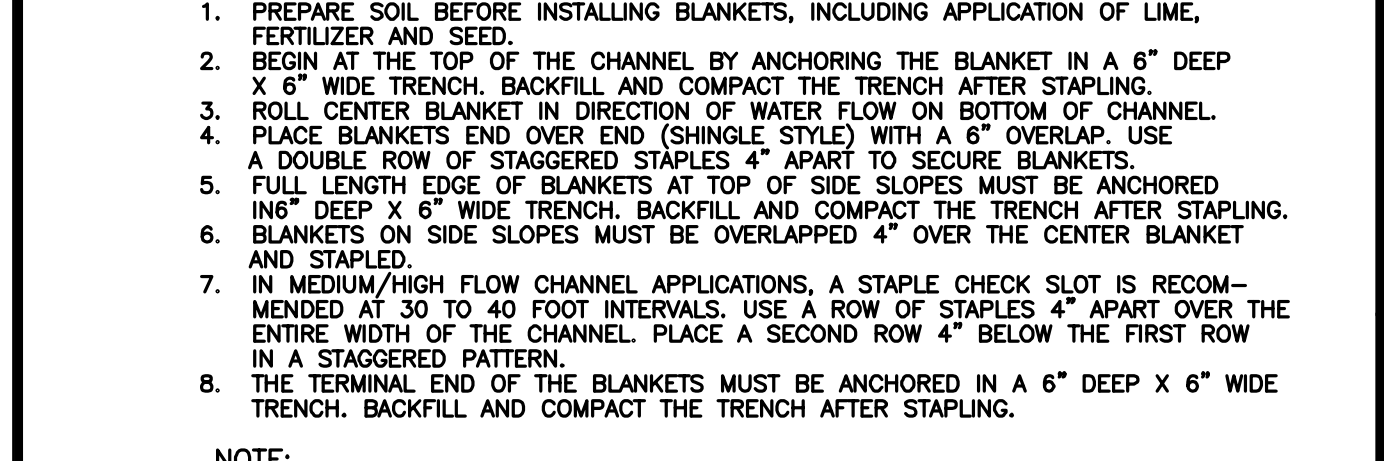
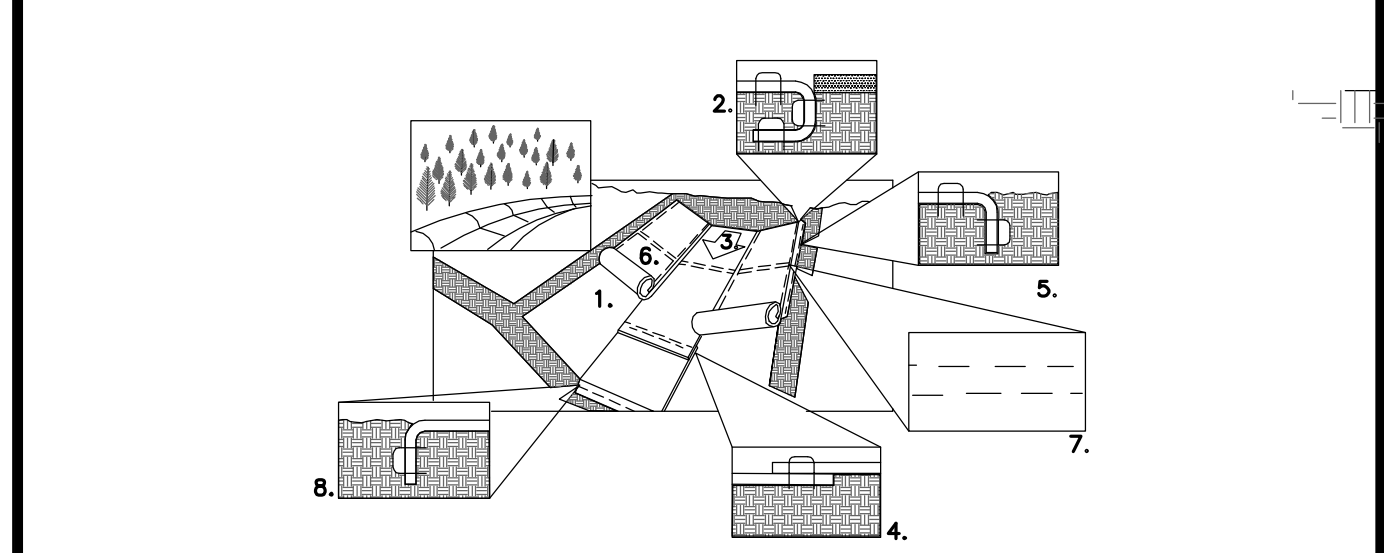
PROJECTS plus GREENWOOD SURVEYING COMPANY
SITE ENGINEERING-LAND SURVEYING-CONSTRUCTION LAYOUT
1257 Airport Parkway, Suite A - Greenwood, Indiana
(317)-882-5003

Professional Engineer seal for Jeffrey K. Smith, No. 19419, State of Indiana.

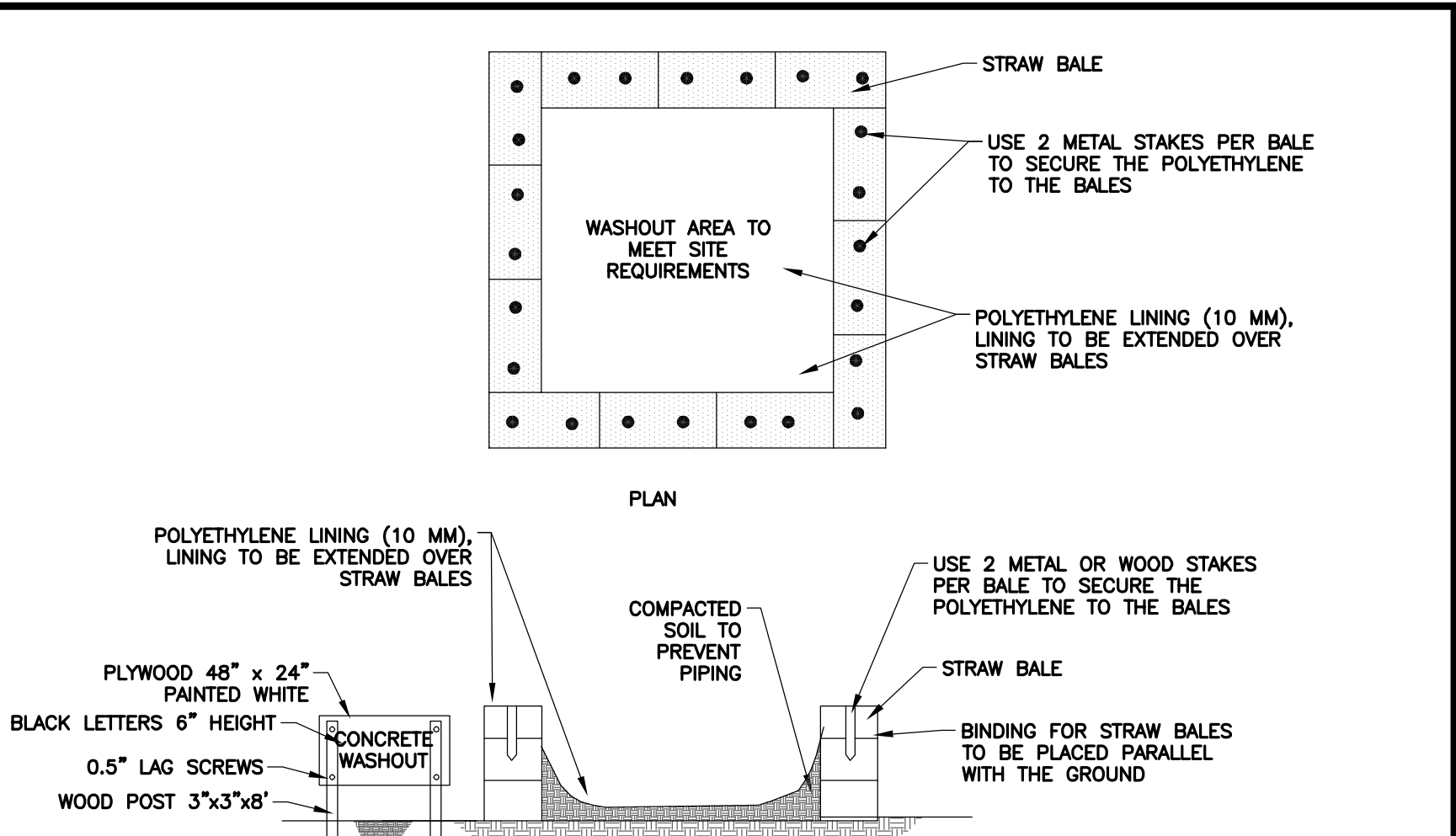
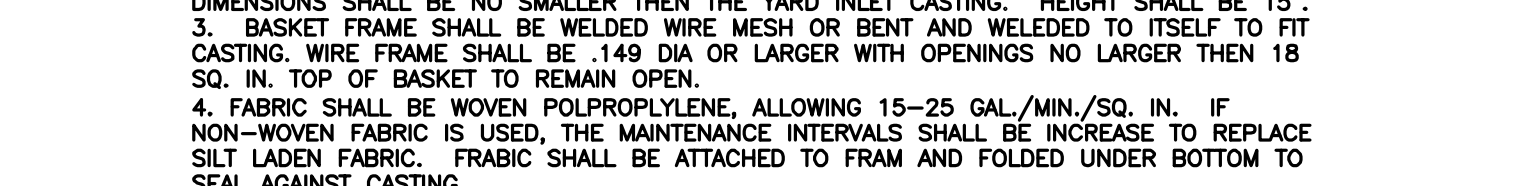
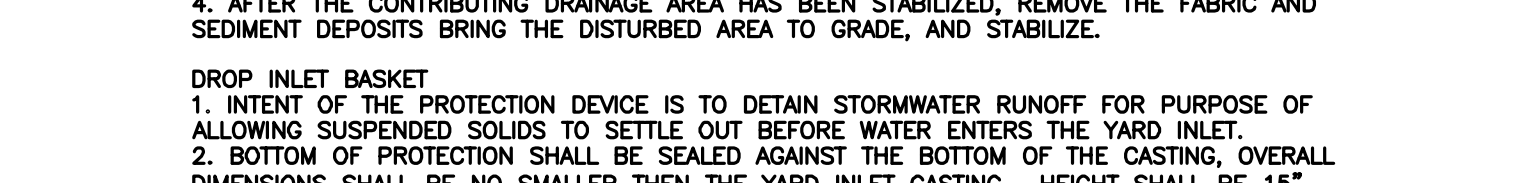
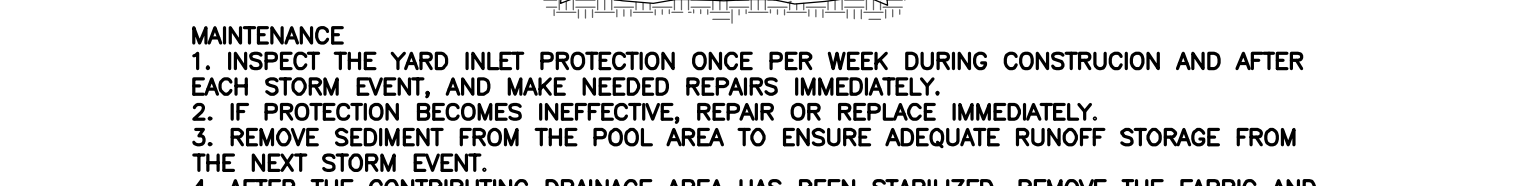
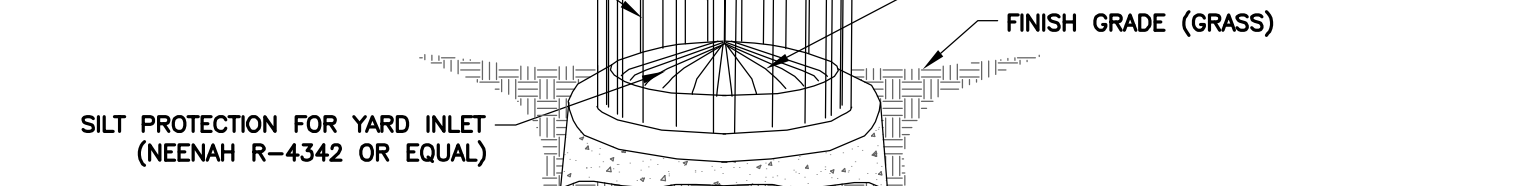
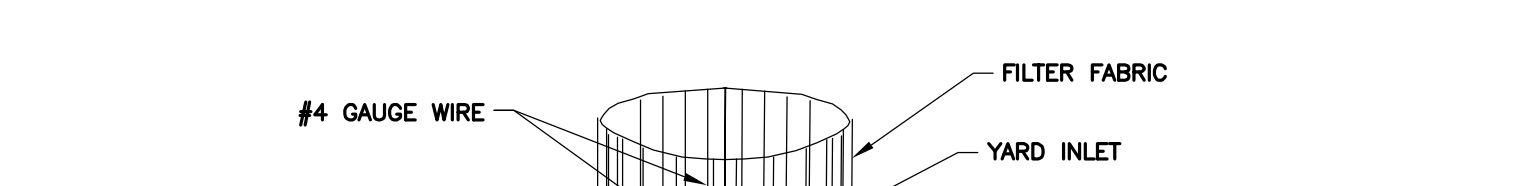
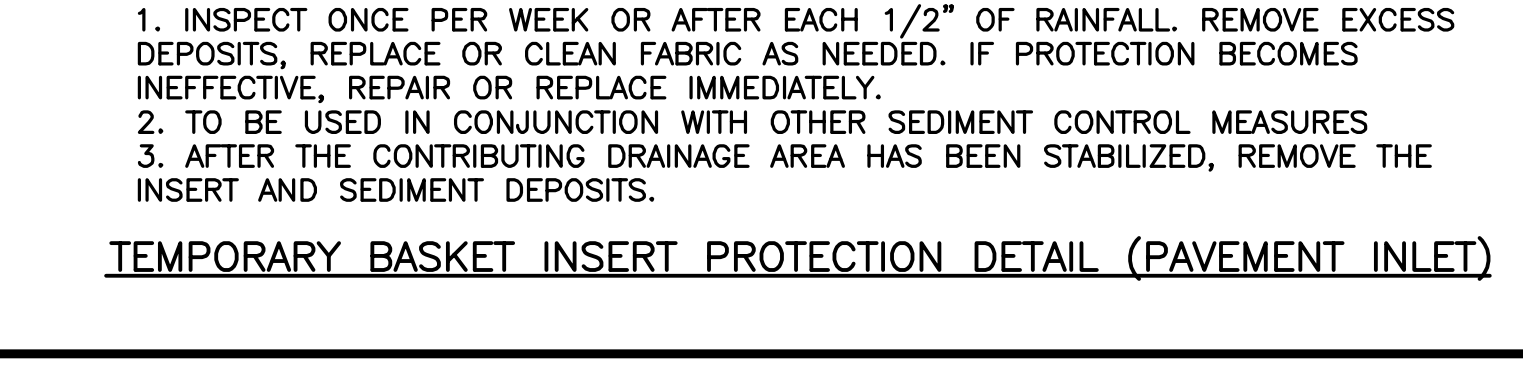
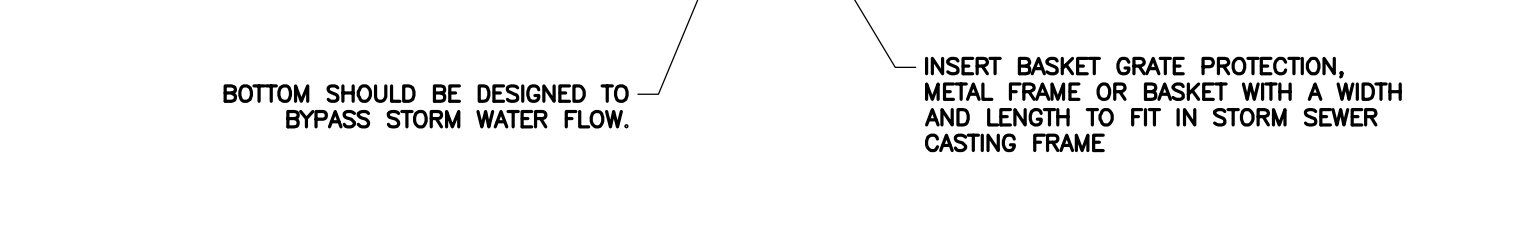
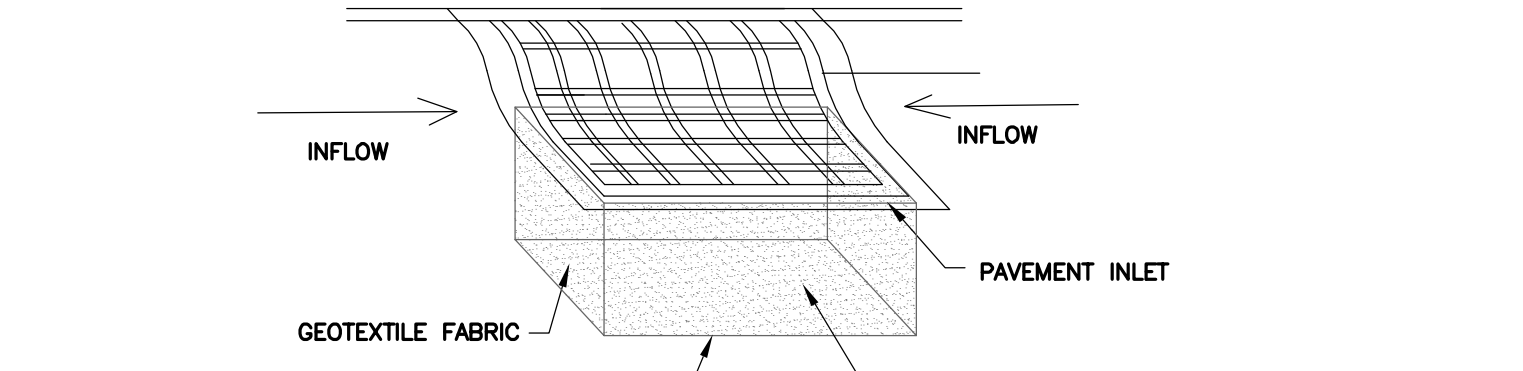
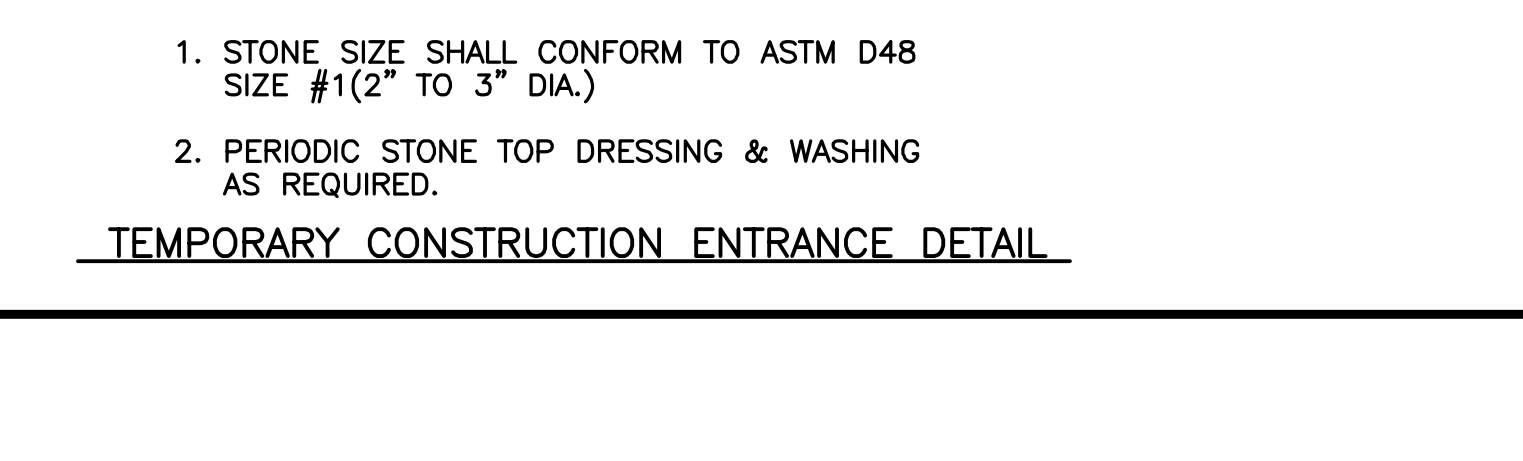
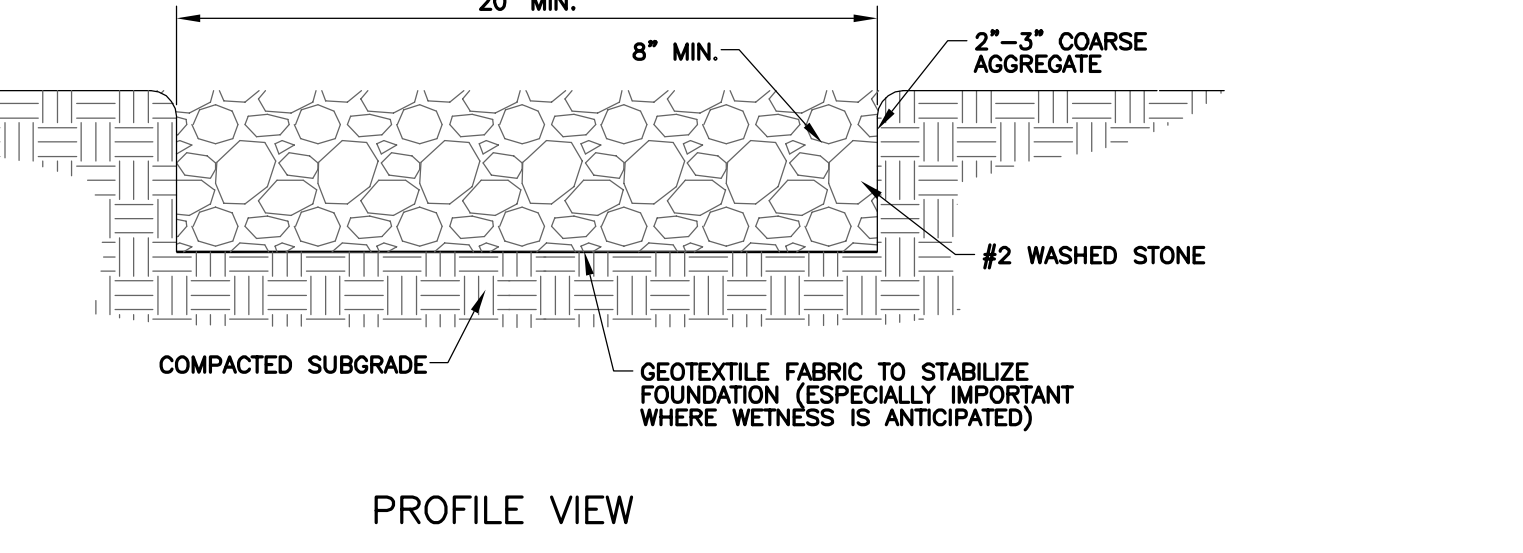
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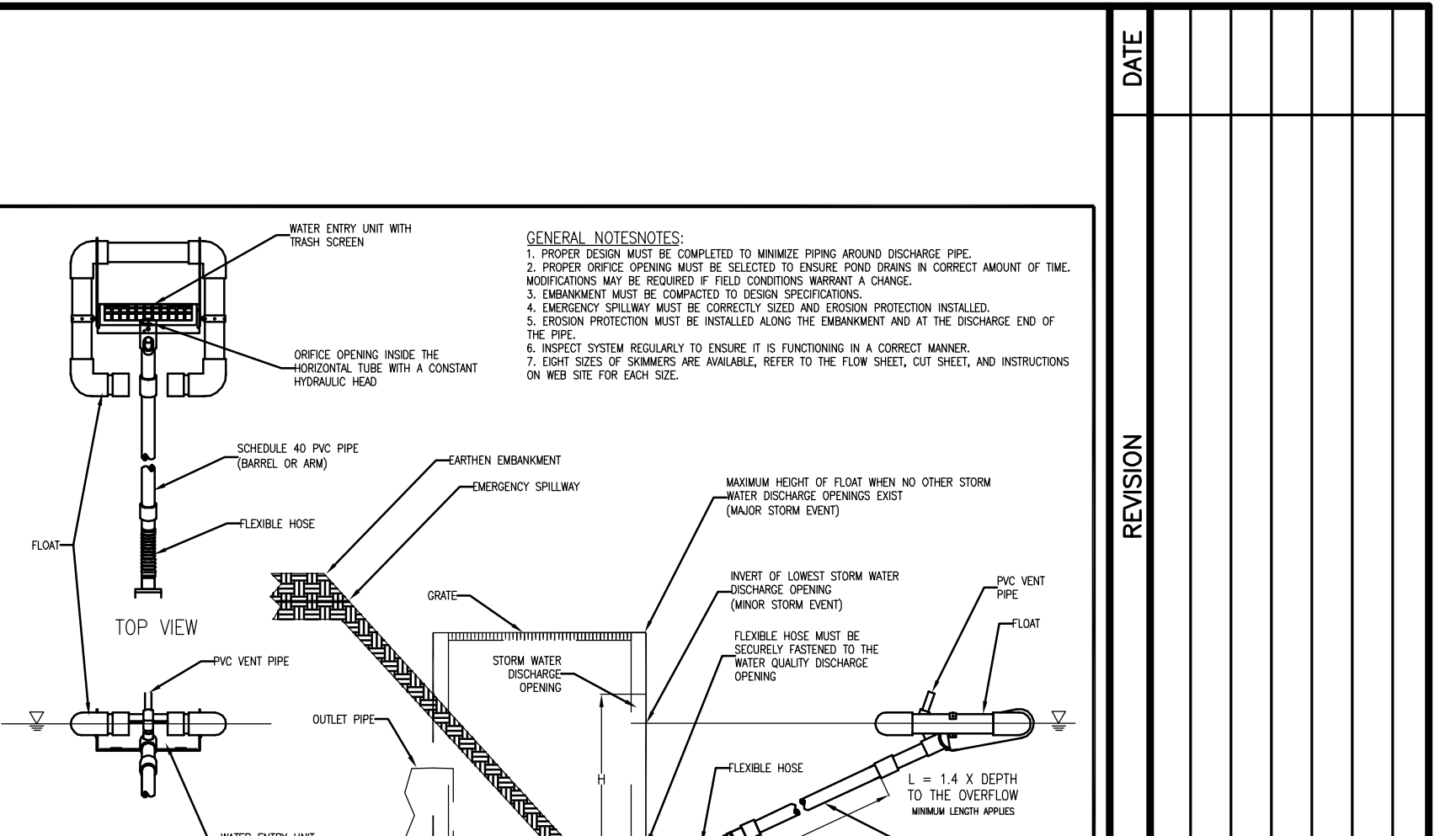
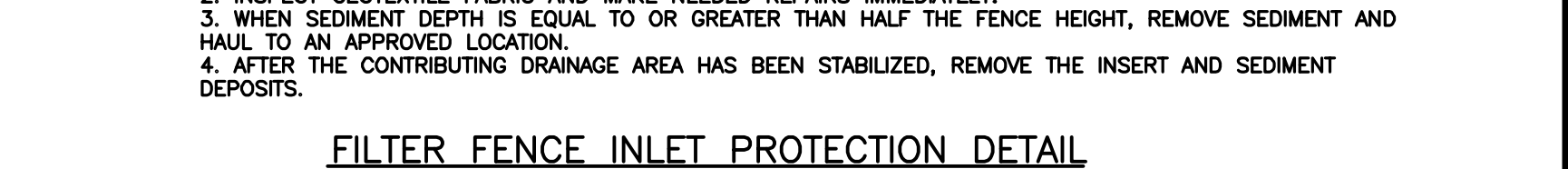
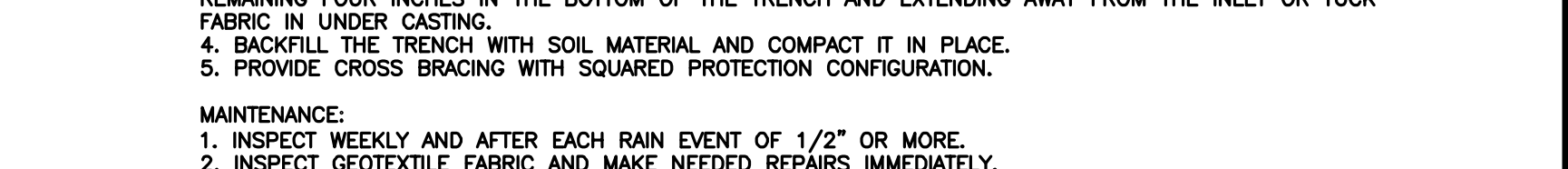
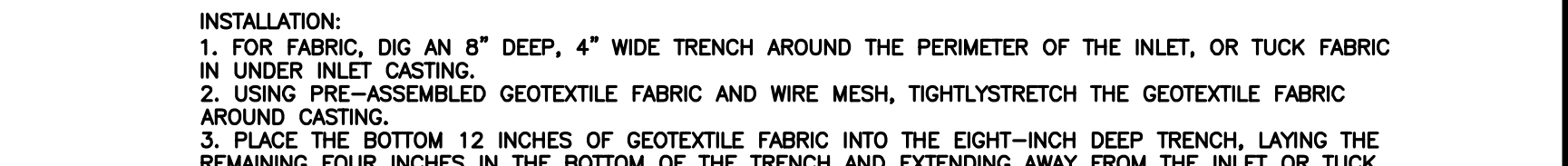
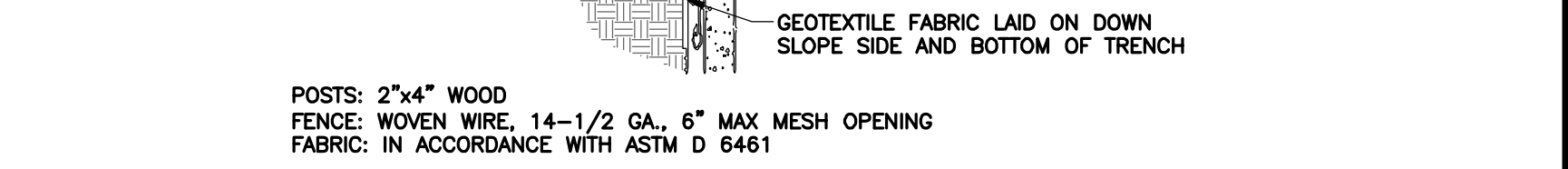
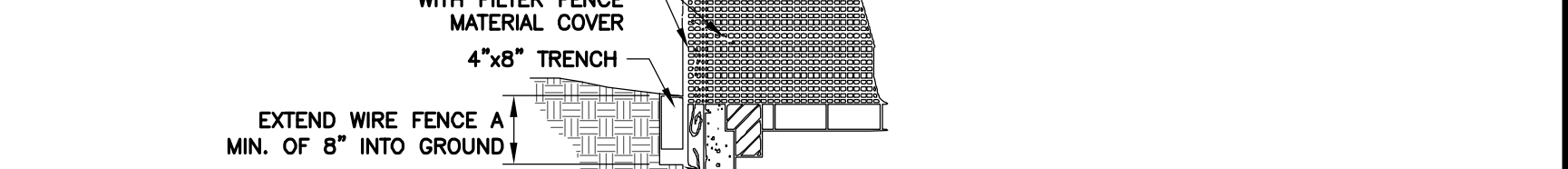
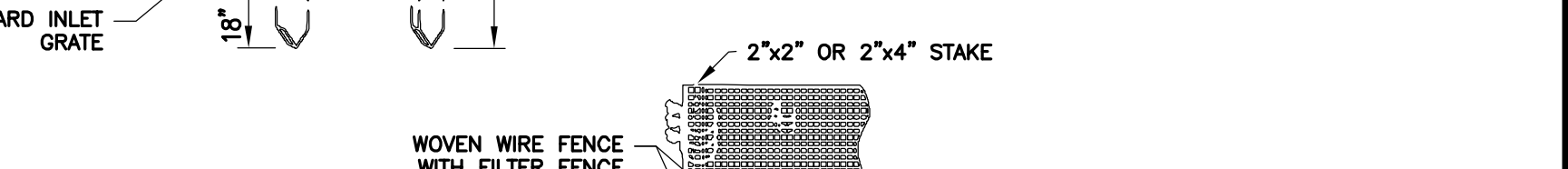
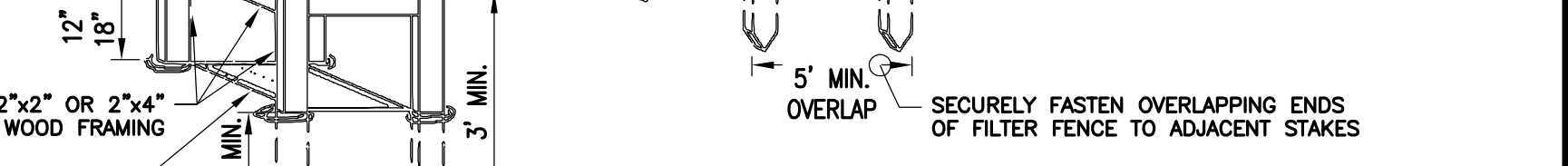
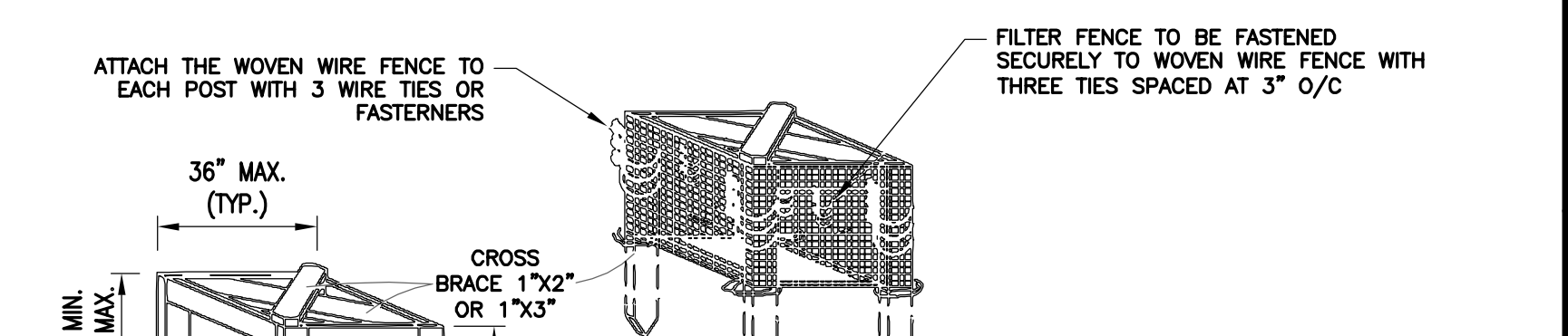
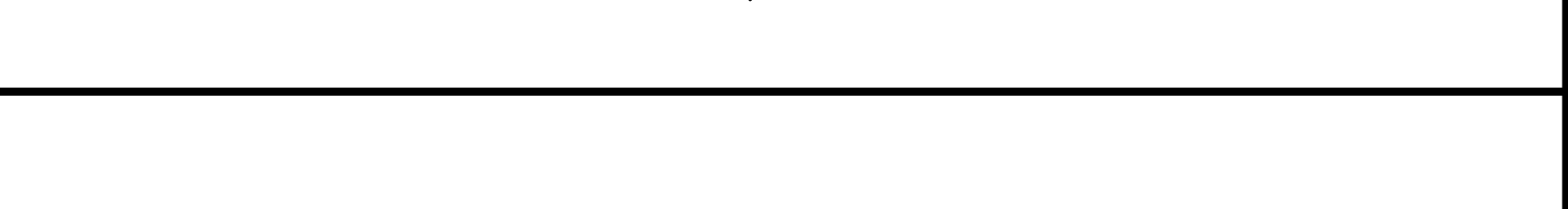
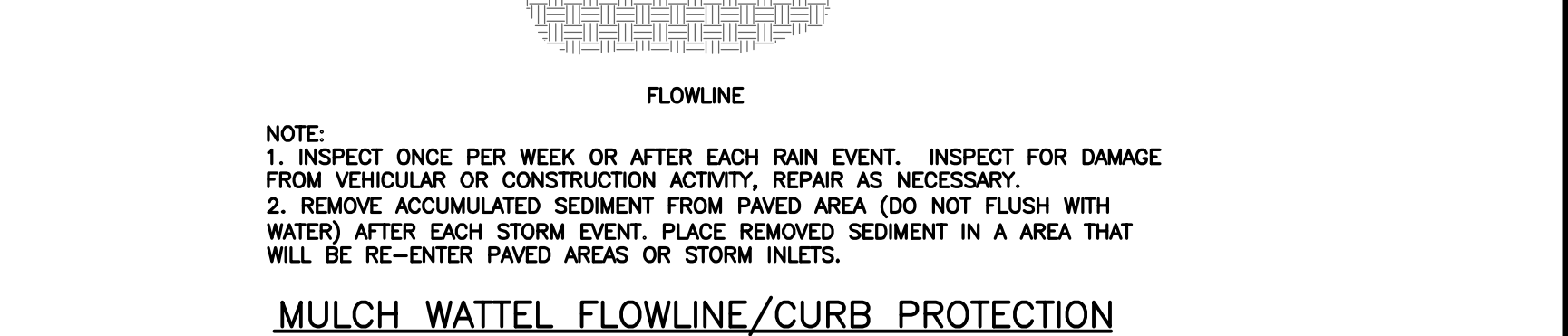
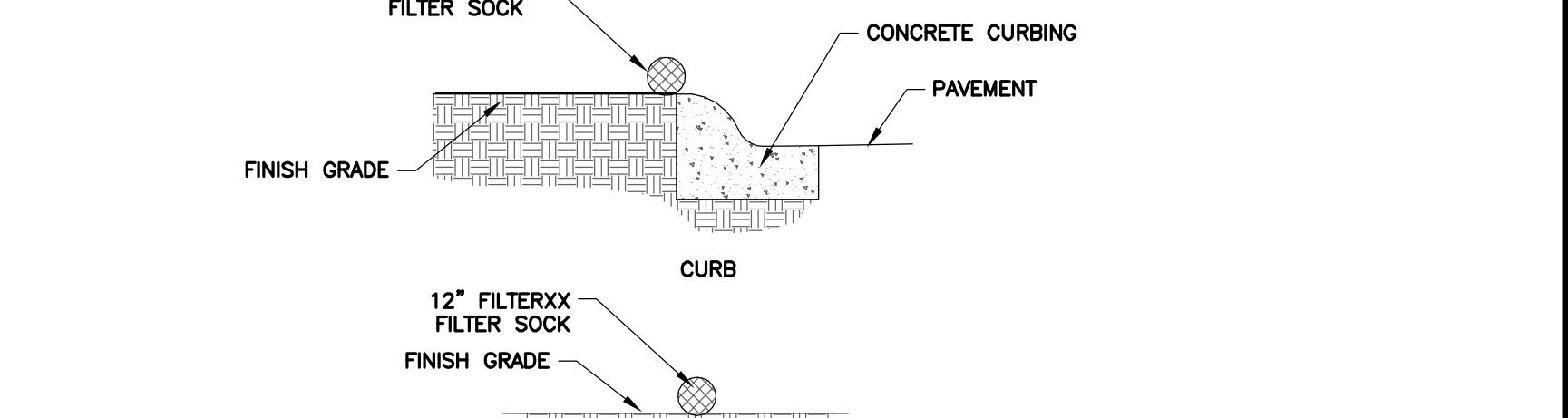
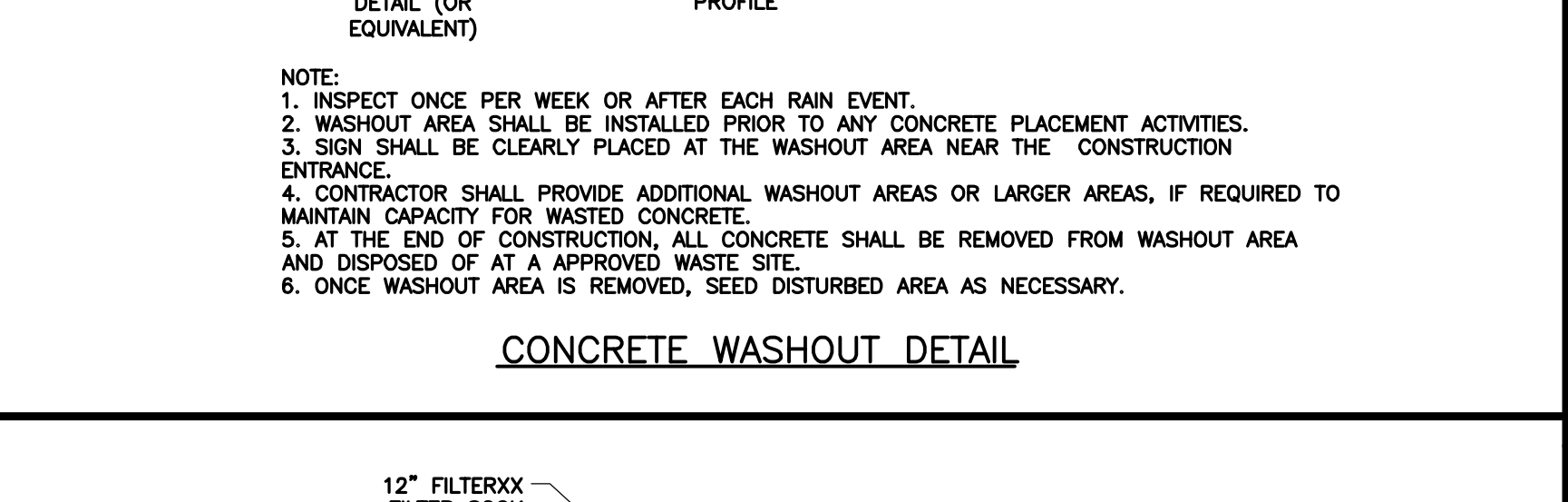
SHORELINE APPLICATIONS



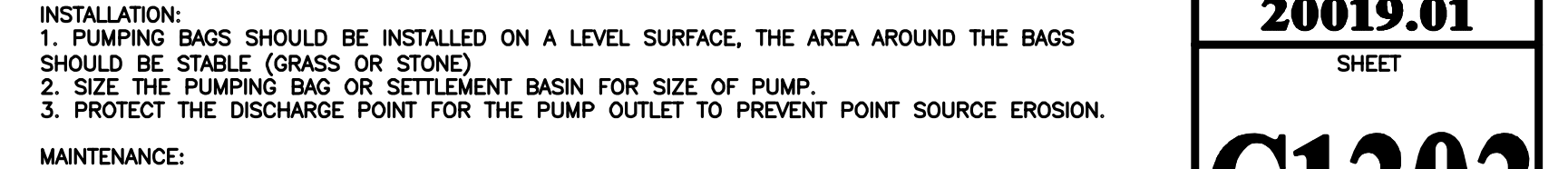
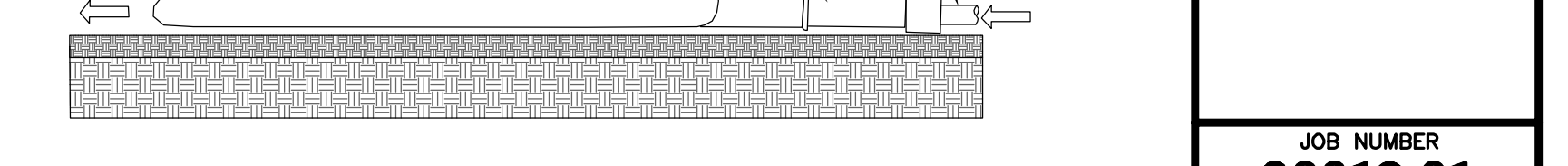
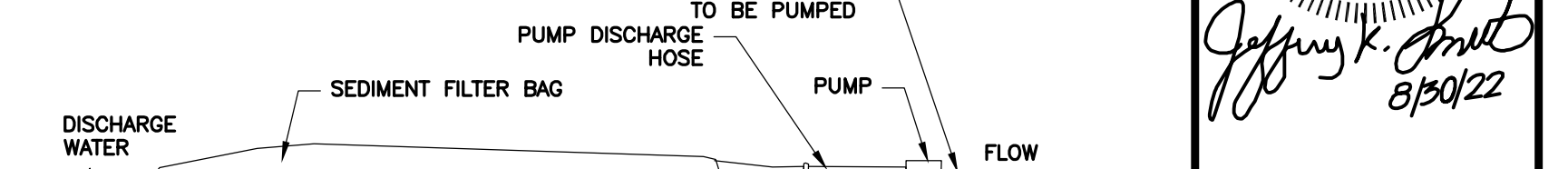
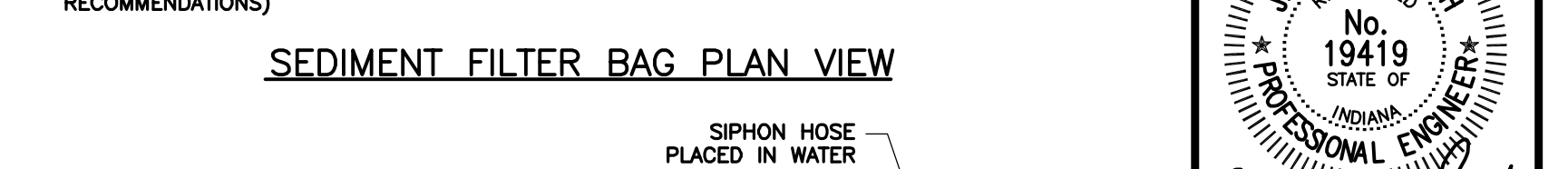
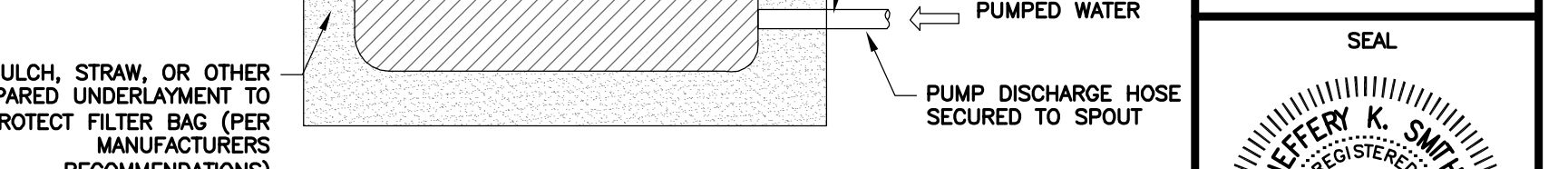
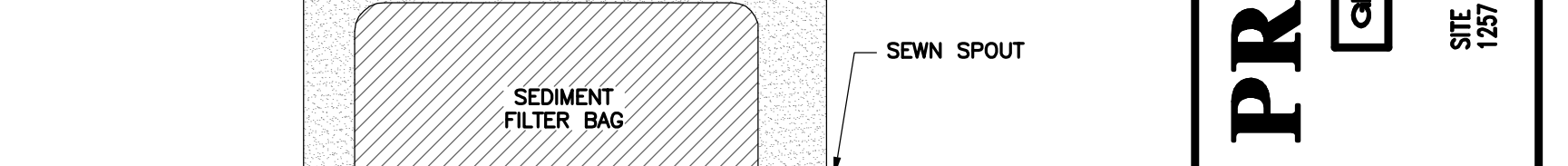
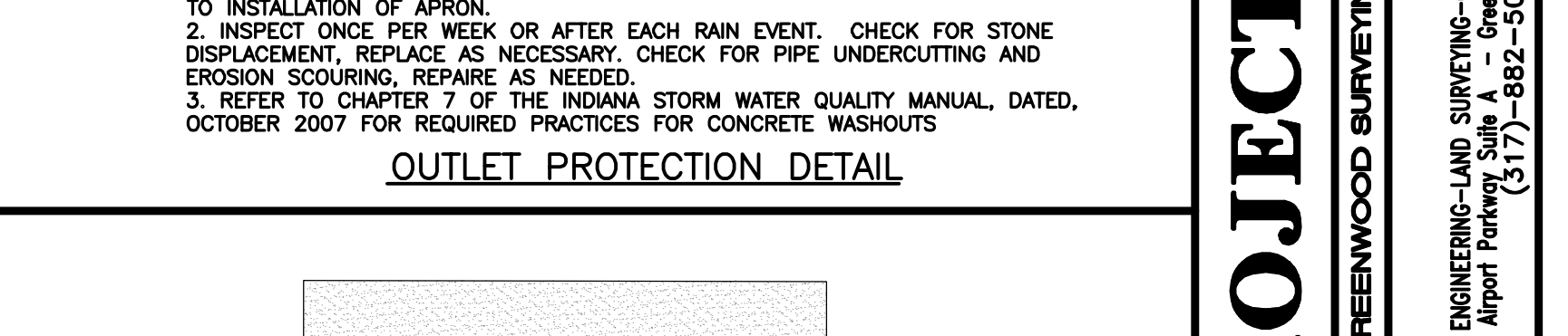
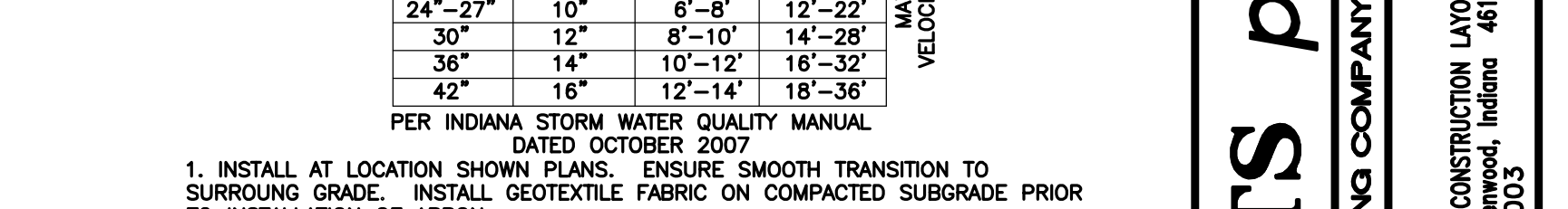
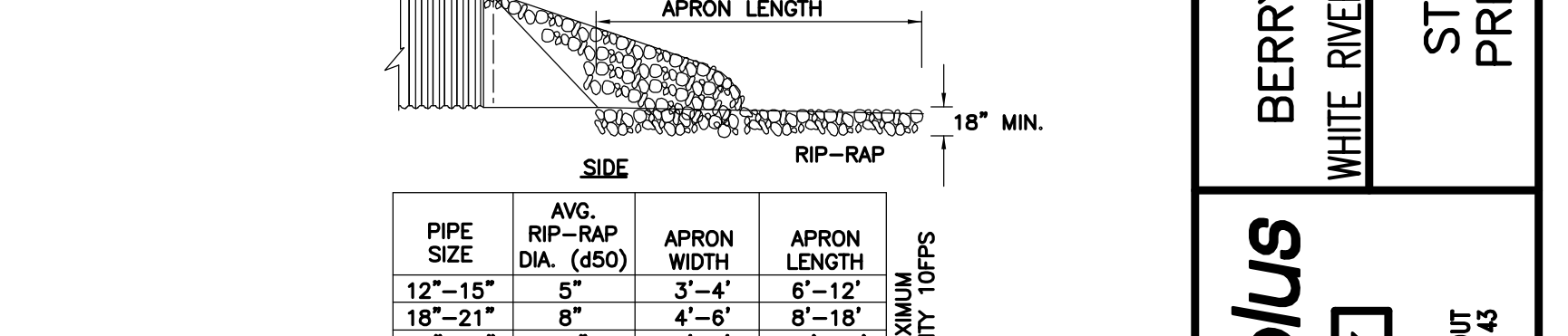
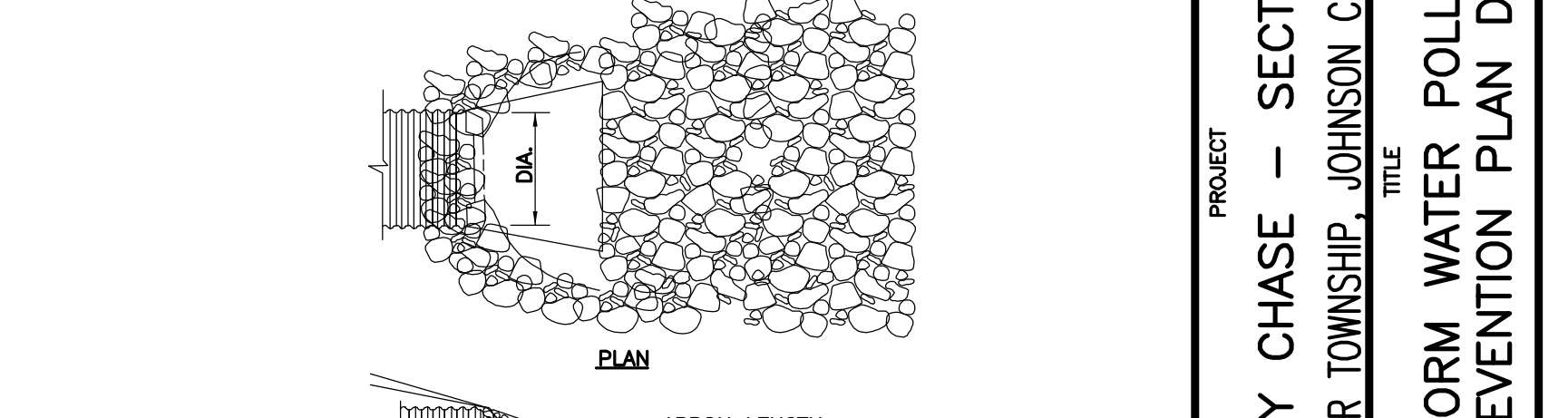
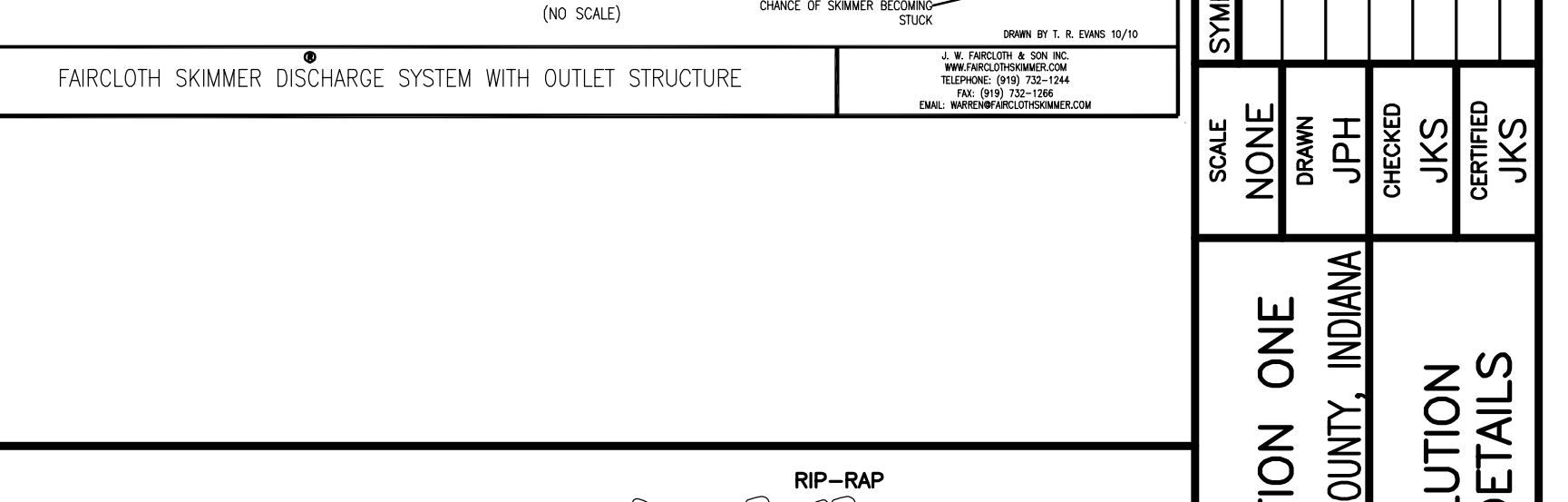
SHORELINE APPLICATIONS



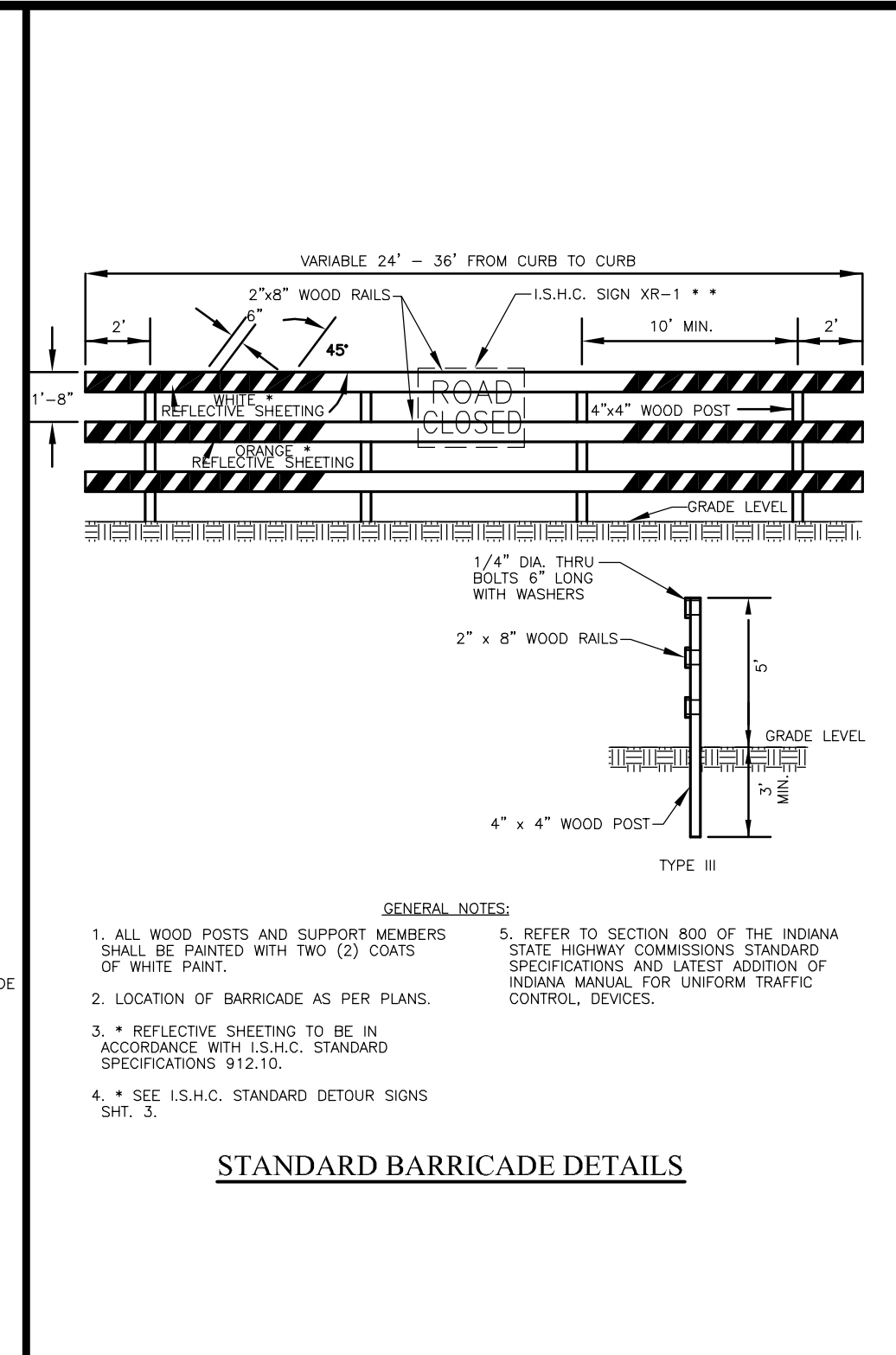
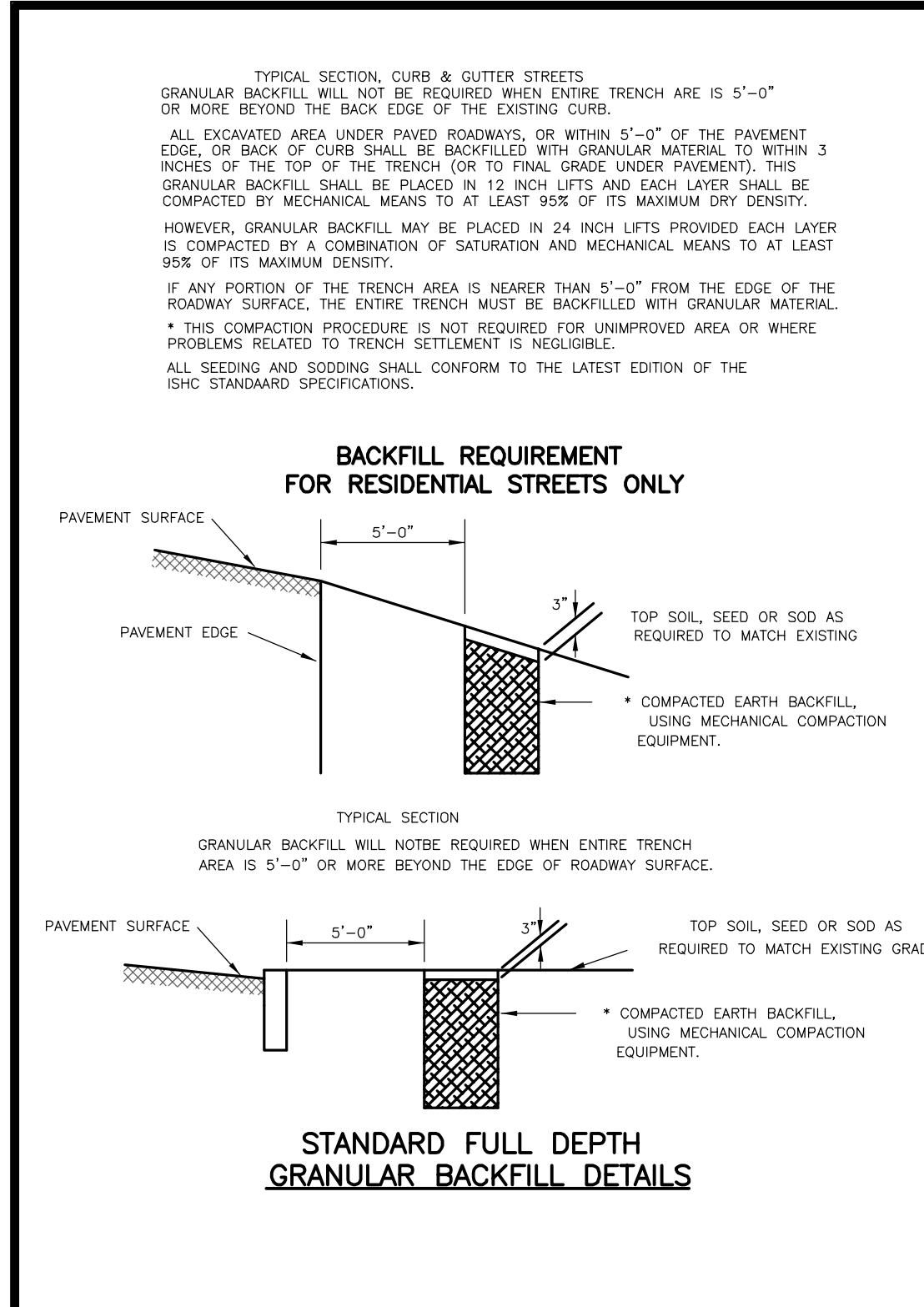
SHORELINE APPLICATIONS



SHORELINE APPLICATIONS



DATE	
REVISION	
SYMBOL	
SCALE	NONE
DRAWN	JPH
CHECKED	JKS
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
PROJECT	STORM WATER POLLUTION PREVENTION PLAN DETAILS
COMPANY	GREENWOOD SURVEYING COMPANY
REGISTERED	REGISTERED PROFESSIONAL ENGINEER
NO.	19419
STATE OF	INDIANA
SIGNATURE	Jeffery K. Smith
DATE	8/30/22
JOB NUMBER	20019.01
SHEET	
PROJECT	C1202
DATE	AUGUST 30, 2022



GENERAL NOTES FOR CURB AND GUTTER

WHERE SIDEWALK IS CONSTRUCTED IMMEDIATELY ADJACENT TO CURB, THE SURFACE OF THE SIDEWALK SHALL BE CONSTRUCTED WITH 1/2" HIGHER THAN THE TOP OF THE CURB.

TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" OF SPACING AS INDICATED OR DIRECTED.

COST OF TRANSVERSE PREFORMED JOINT FILLER TO BE INCLUDED IN CONTRACT PRICE FOR "CONCRETE SIDEWALK".

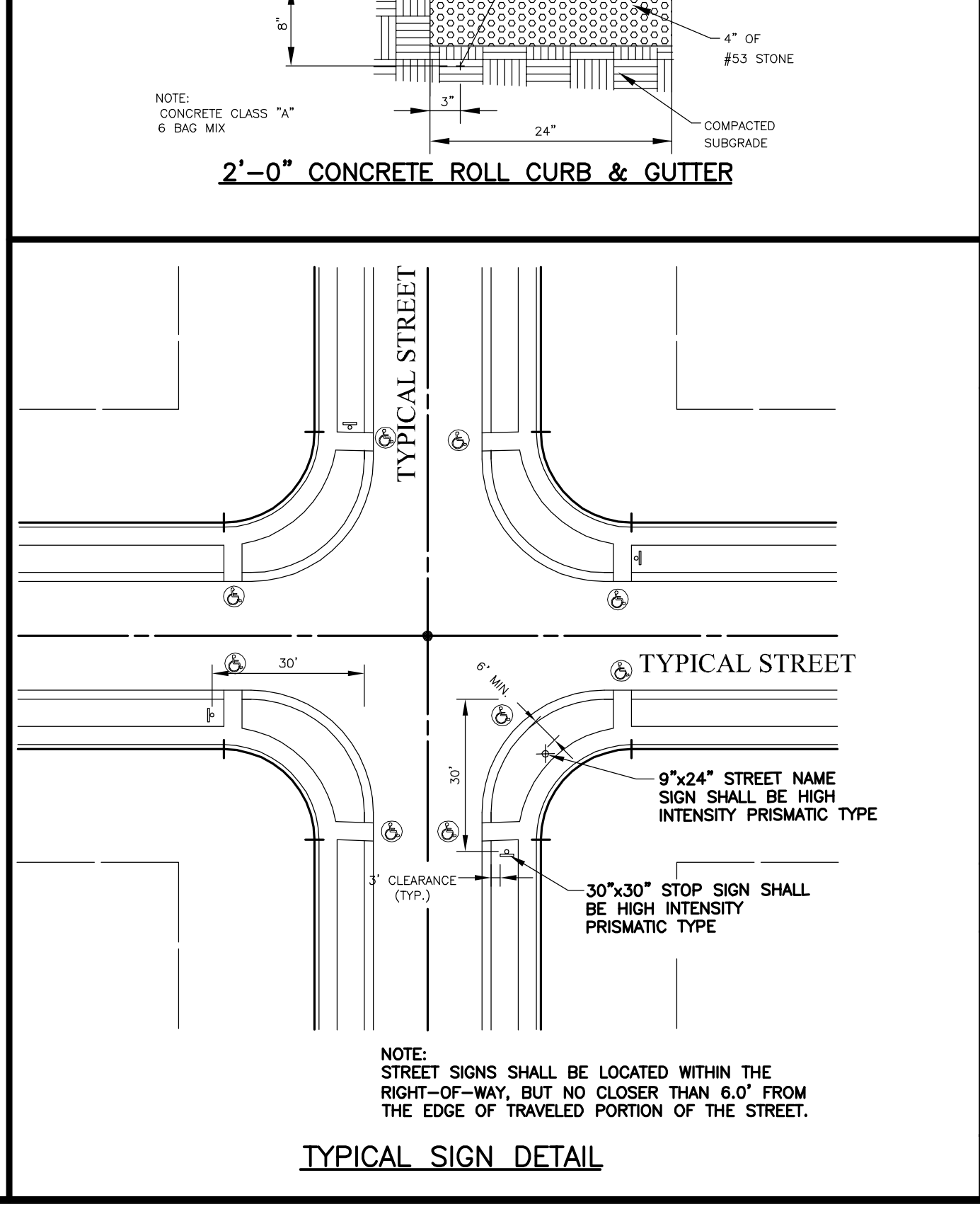
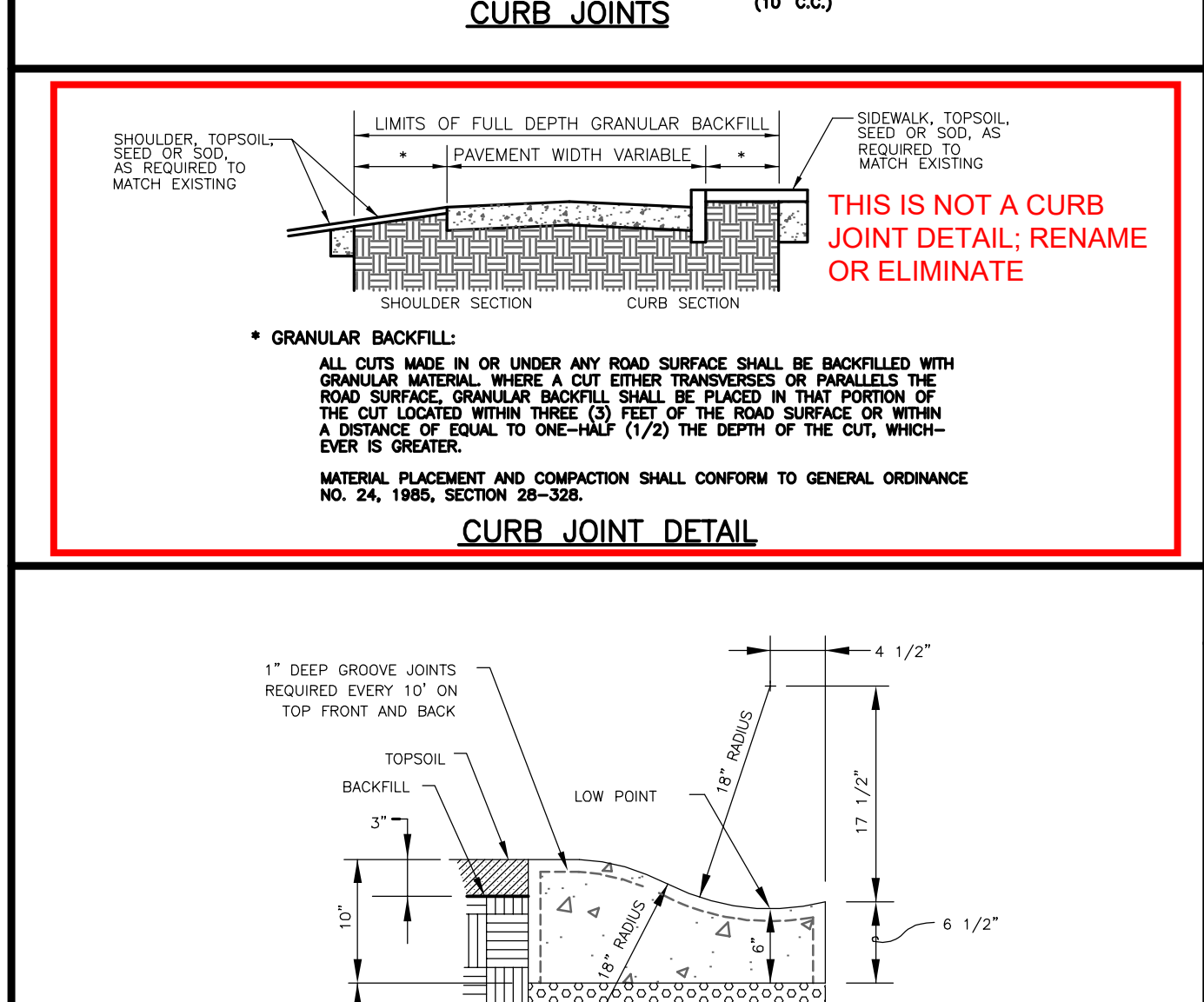
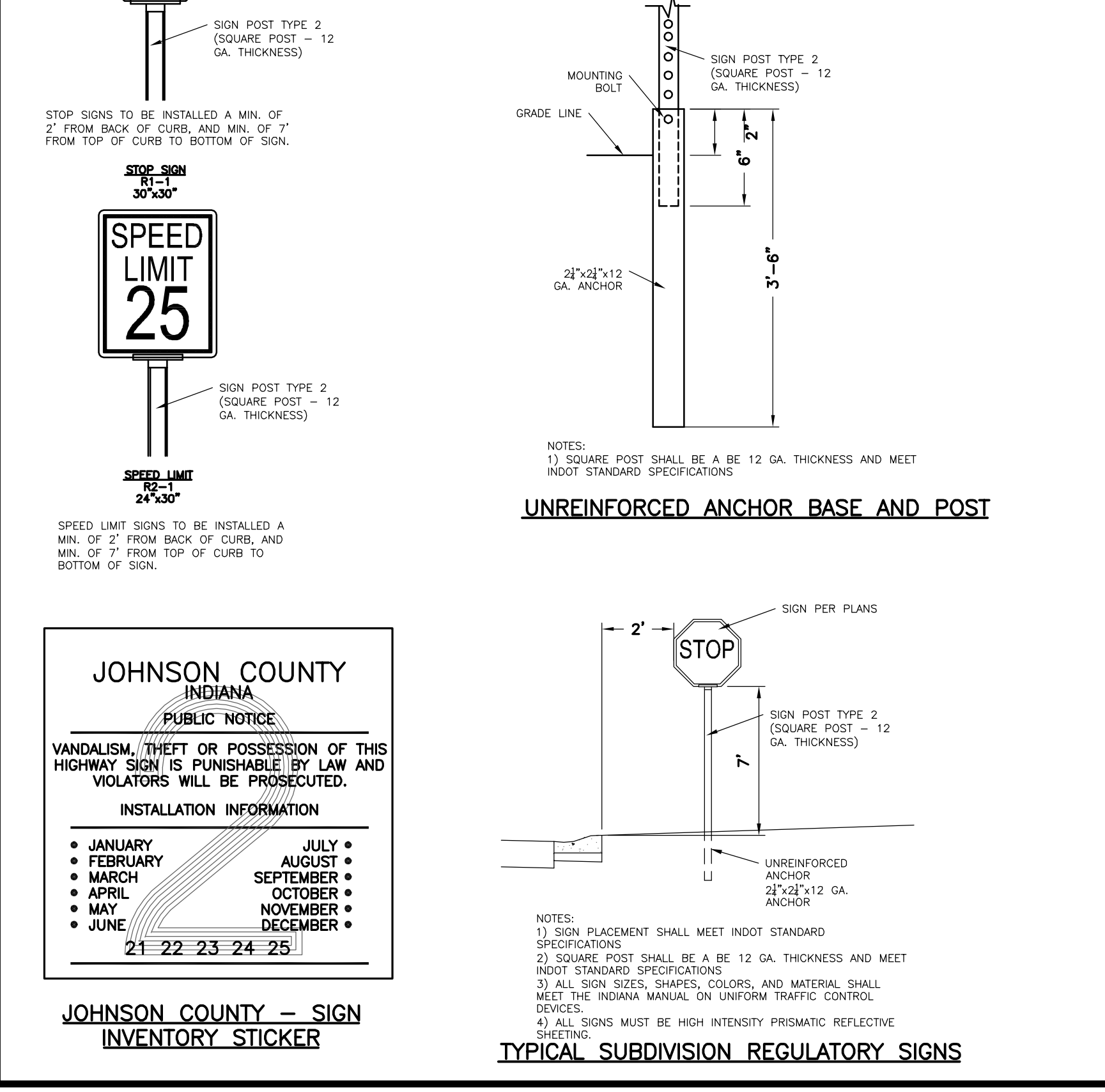
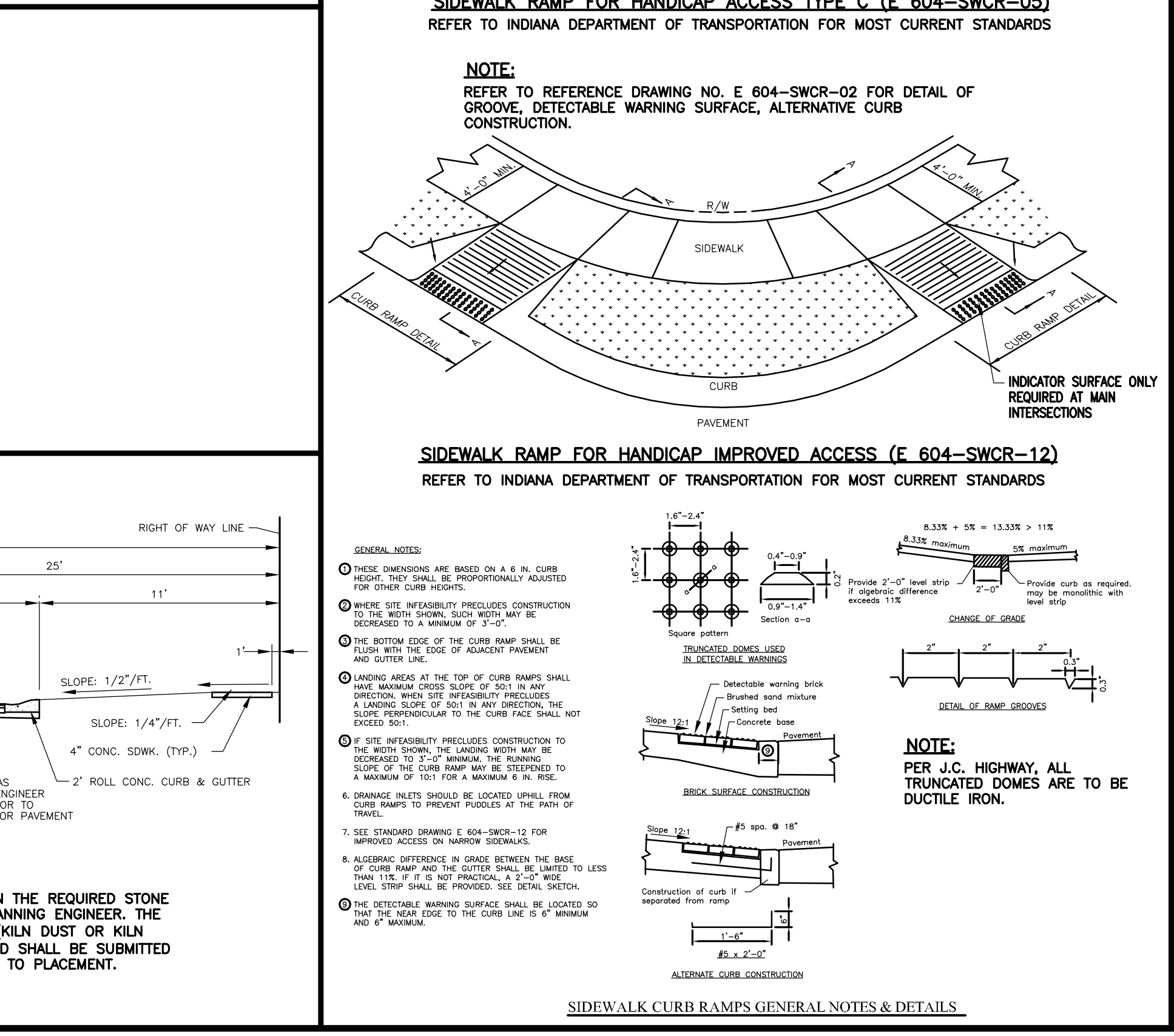
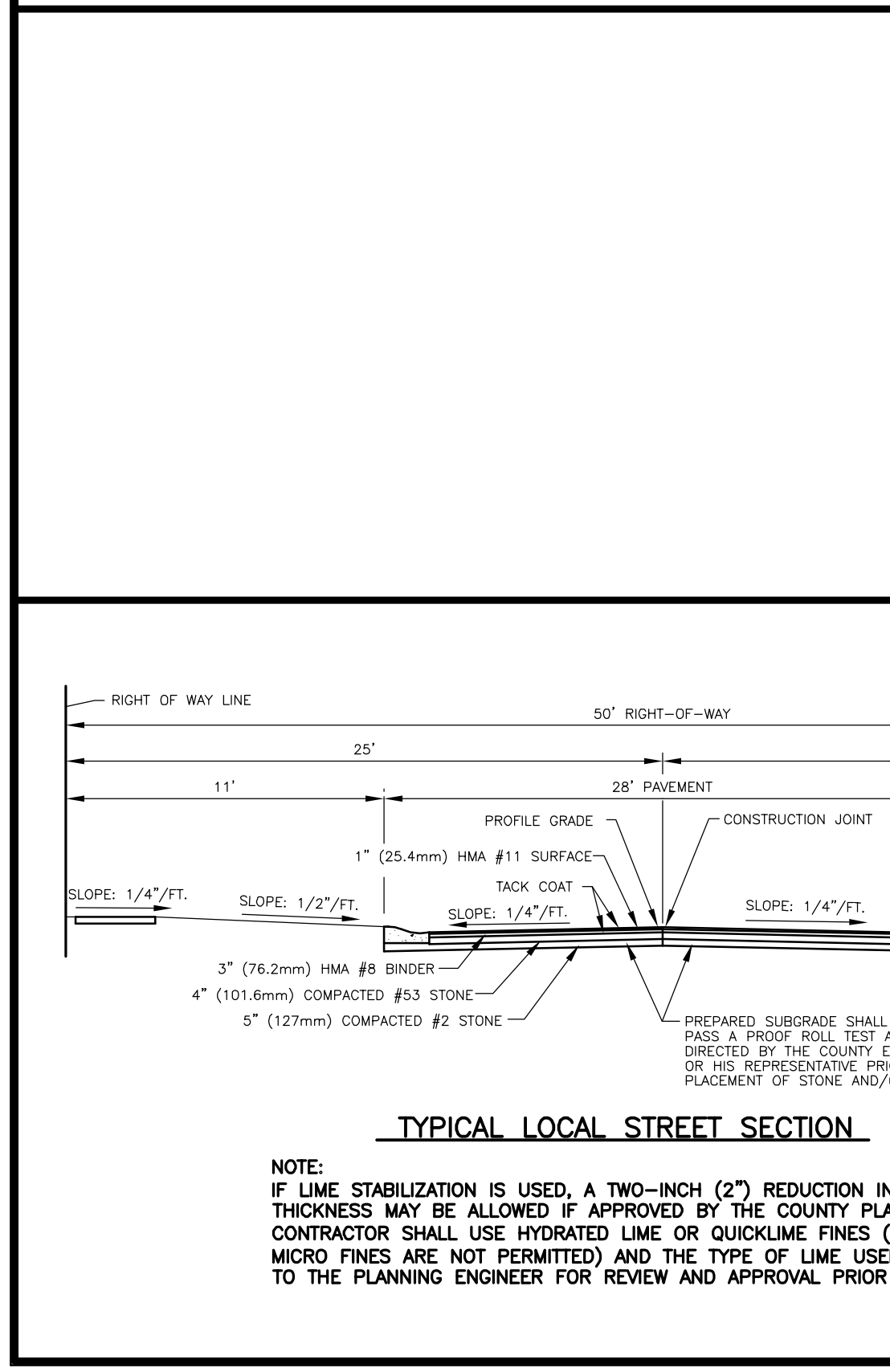
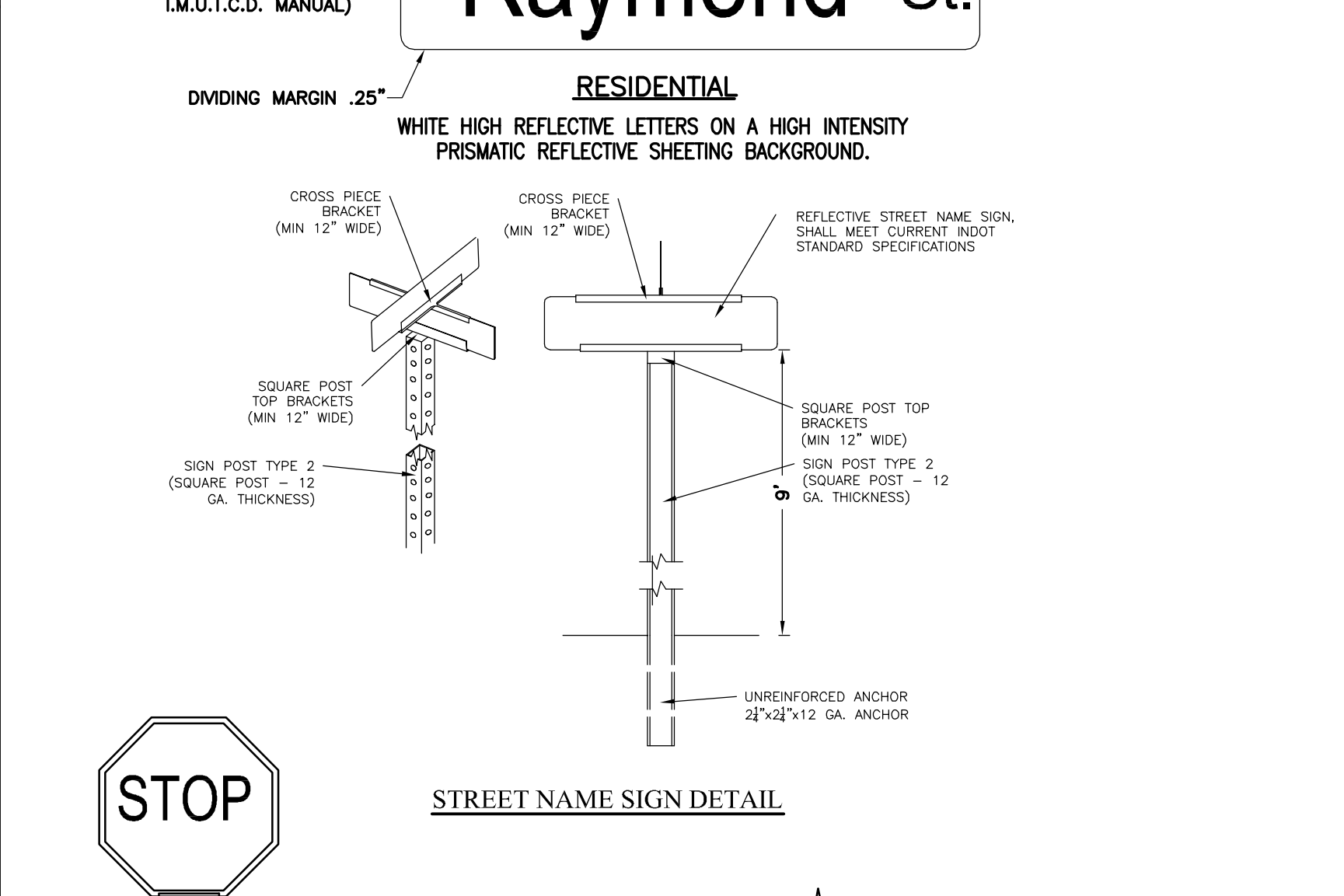
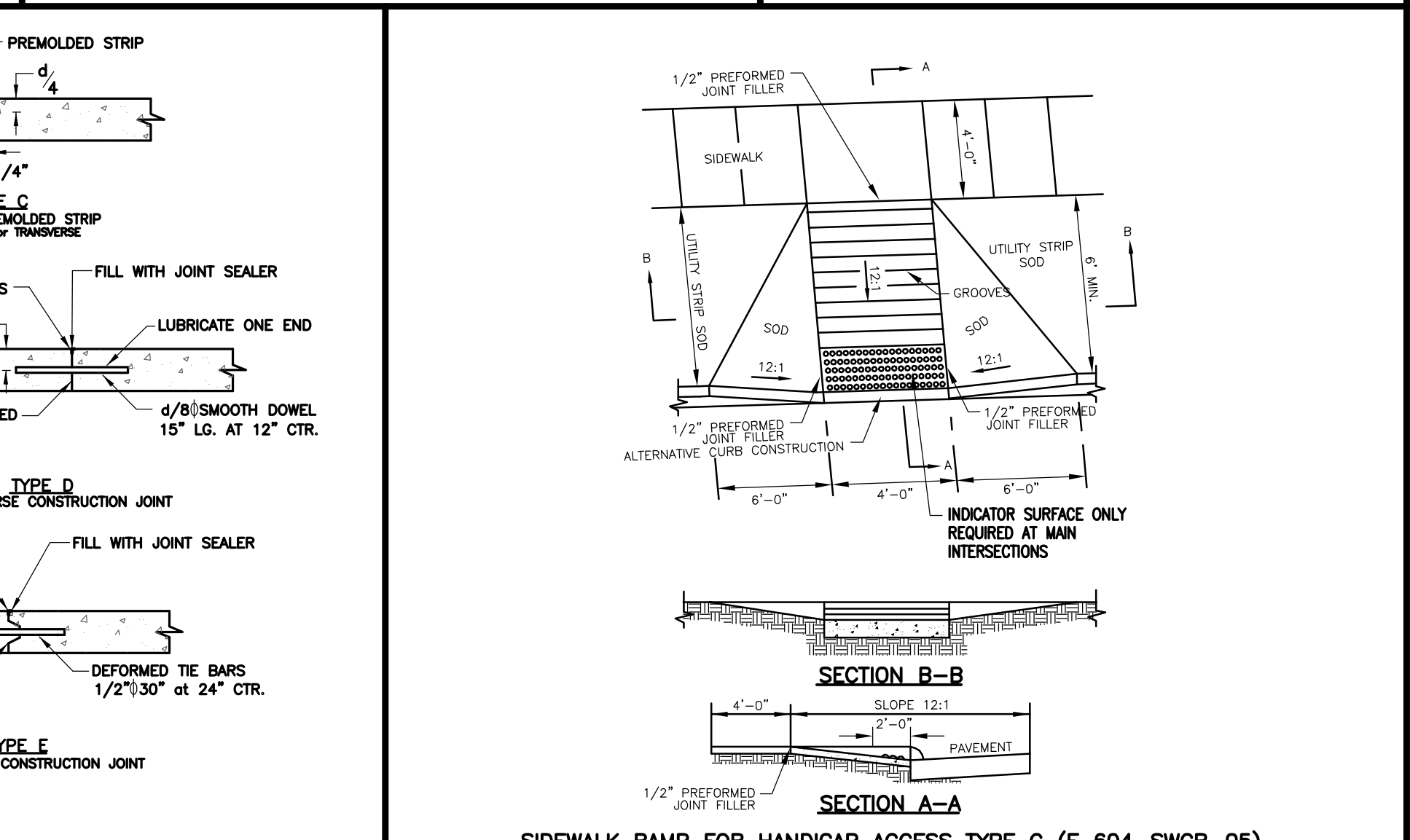
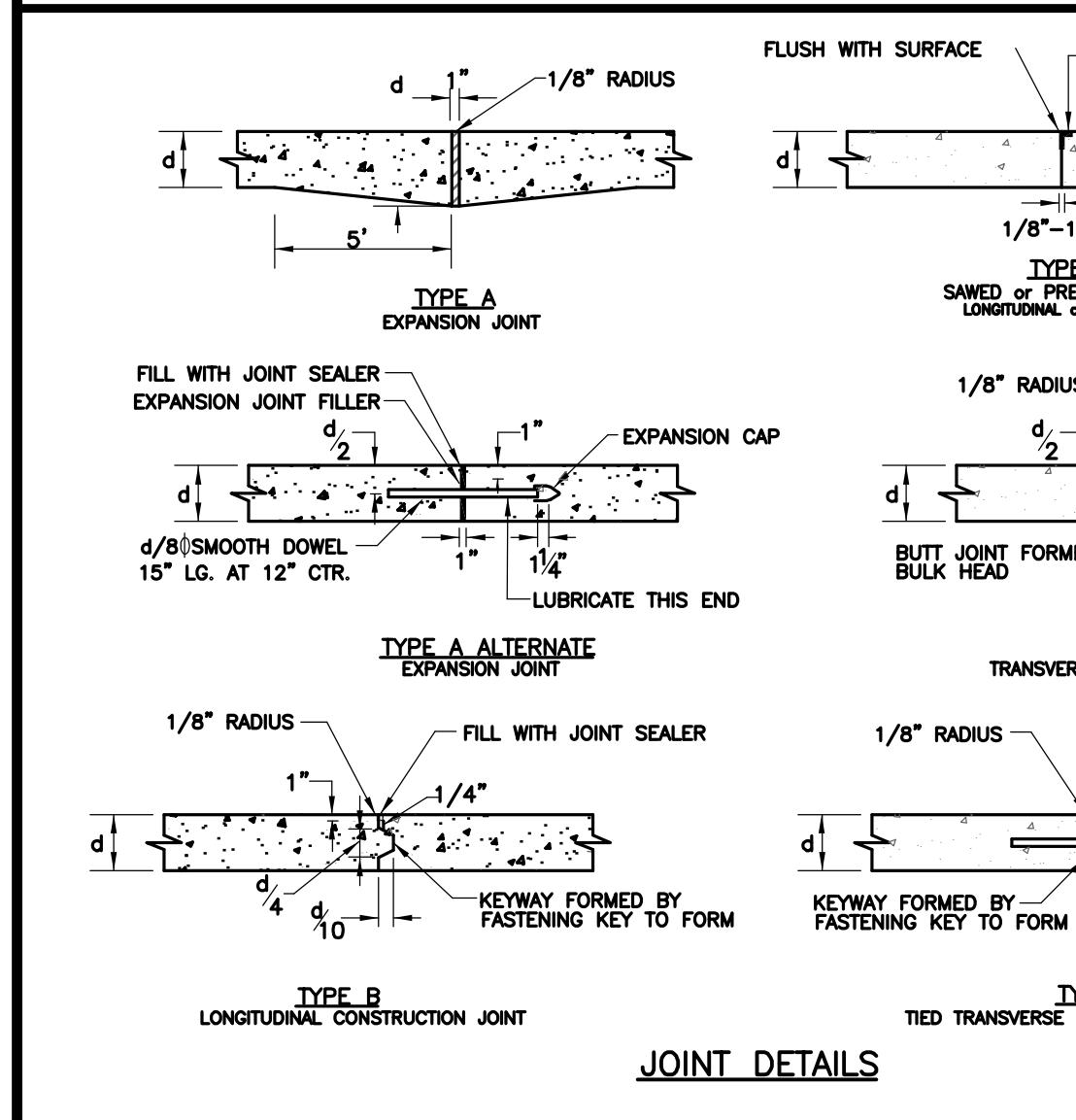
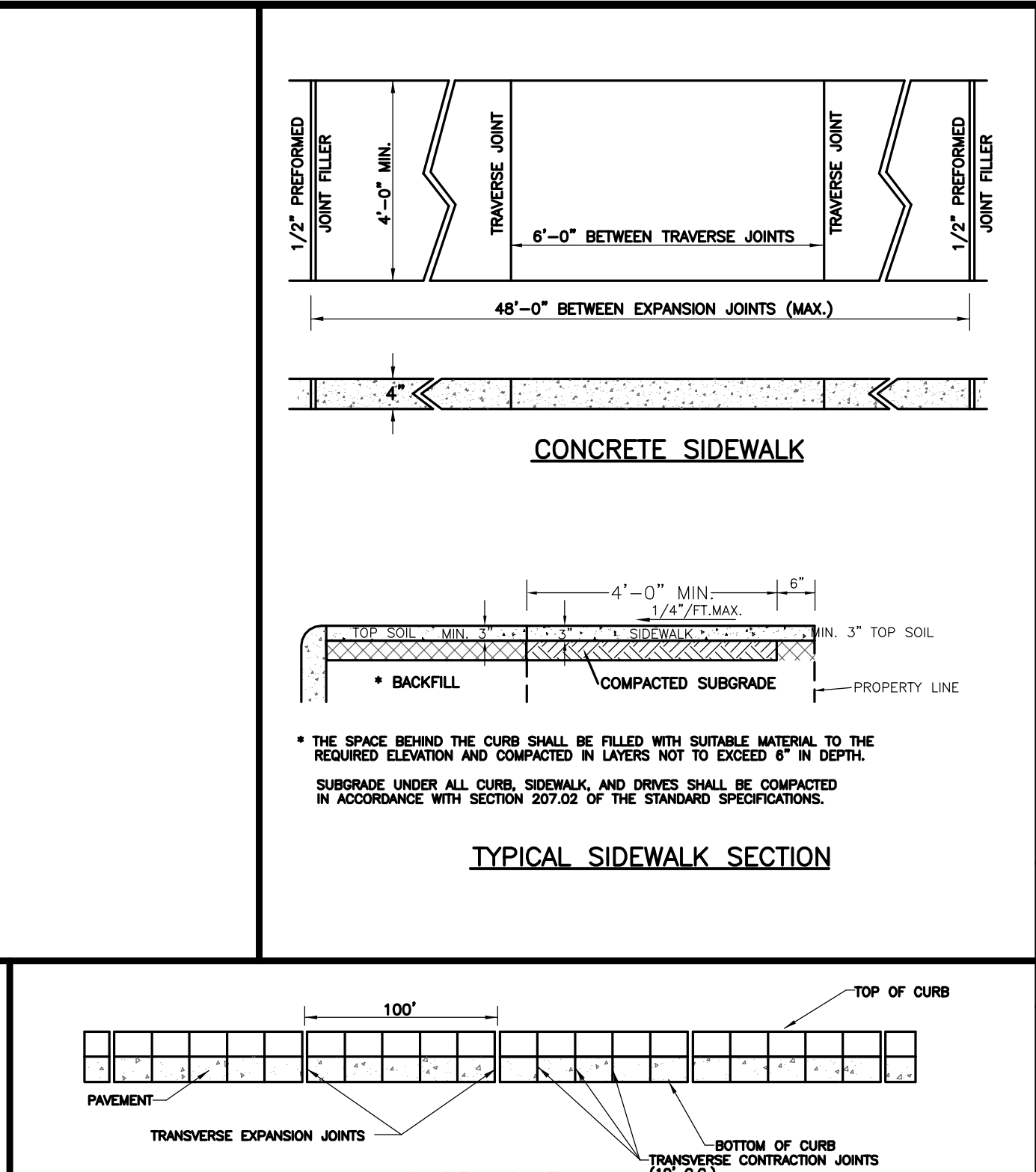
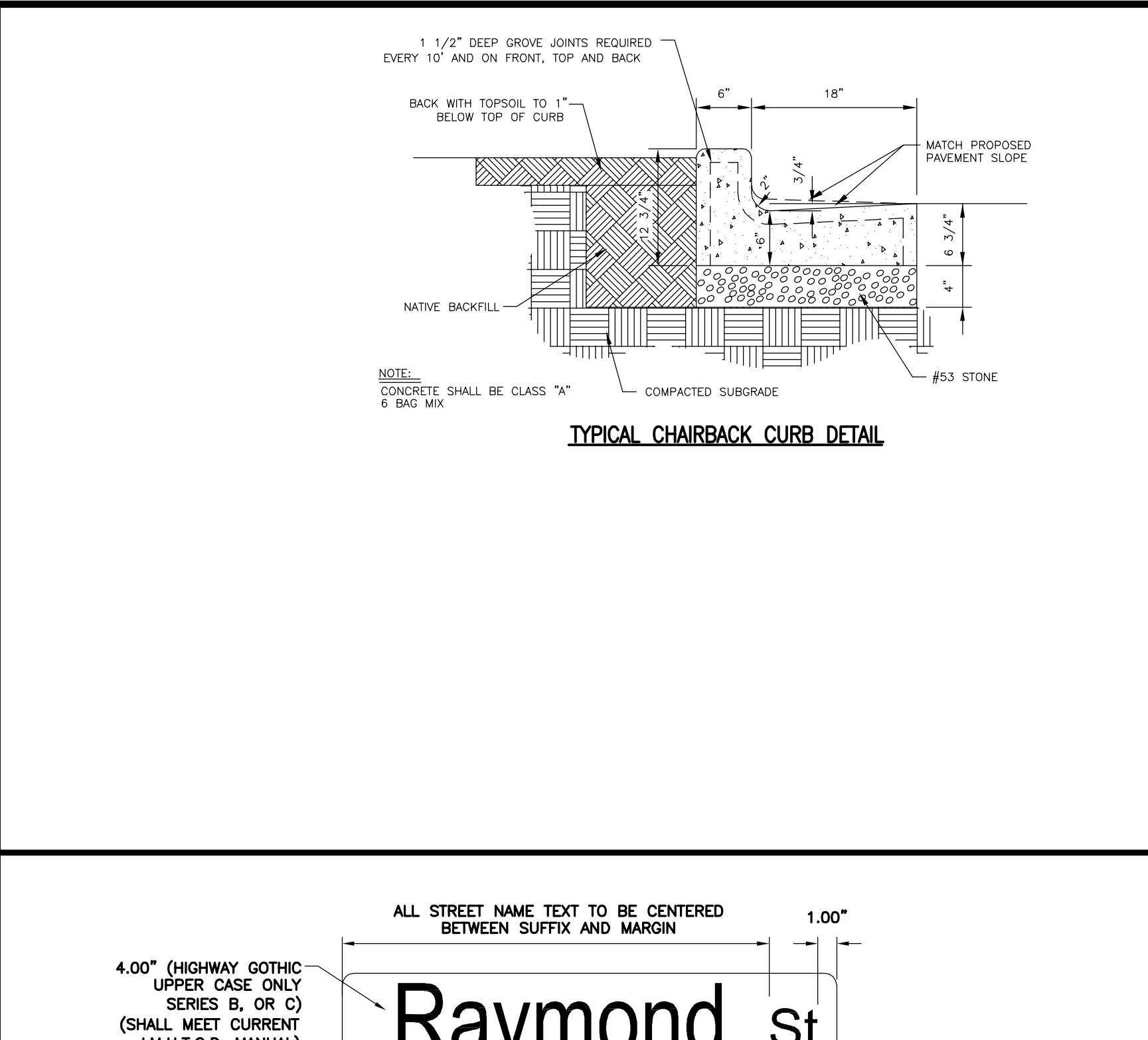
* COMPACTED SUBGRADE - THE UPPER 6 INCHES SHALL COMPLY WITH THE DENSITY REQUIREMENTS OF THE CONTRACT IMMEDIATELY PRIOR TO PLACING THE MATERIAL THEREON. ALL SOFT YIELDING OR OTHER UNSUITABLE MATERIAL, WHICH CANNOT BE COMPACTED SATISFACTORILY, SHALL BE REMOVED. ALL ROCK ENCOUNTERED SHALL BE REMOVED OR BROKEN UP AT LEAST SIX (6) INCHES BELOW THE SUBGRADE SURFACE. ANY HOLES OR DEPRESSIONS RESULTING FROM THE REMOVAL OF THE UNSUITABLE MATERIAL SHALL BE FILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO CONFORM WITH THE SURROUNDING SUBGRADE SURFACE.

** WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, THE SPACE BEHIND THE NEW CURB SHALL BE FILLED WITH GRANULAR MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4".

*** WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY 1/2" ROUND REINFORCED BARS AT ABOUT 3 FOOT INTERVALS. IF NO CONCRETE PAVEMENT IS BEING BUILT, AT THE TIME, THE CURB IS CONSTRUCTED, EXPANSION JOINTS SHOULD BE PLACED AT THE ENDS OF ALL RETURNS AND AT INTERVALS NOT TO EXCEED 100 FEET. CONTRACTION JOINTS SHOULD BE INSTALLED AT 20 FOOT SPACING.

GENERAL NOTES:

- WHEN THE INTERSECTION IS NOT SIGNALIZED, SIDEWALK RAMPS SHALL BE PLACED ON THE RESIDENTIAL STREET SIDE ONLY. WHEN INTERSECTION IS SIGNALIZED, SIDEWALK RAMPS SHALL BE PLACED ON BOTH RESIDENTIAL STREET AND ARTERIAL STREET SIDE.
- CURB CUT RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED.
- RAMPS SHALL BE PROVIDED AT ALL CORNERS OF STREET INTERSECTIONS WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT WALK LOCATIONS IN MID-BLOCK IN THE VICINITIES OF HOSPITALS, MEDICAL CENTERS, AND ATHLETIC STADIUMS.
- SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COURSE BROOMING, TRANSVERSE TO THE SLOPE OF THE RAMP.
- SIDEWALKS SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.
- CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON ALL RAMPS WITH NO BREAKS IN GRADE.
- DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH RAMPS, EXCEPT WHERE EXISTING DRAINAGE STRUCTURES ARE BEING UTILIZED IN THE NEW CONSTRUCTION. LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER LOCATION OF DRAINAGE STRUCTURE.
- THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGHOUT THE AREA OF THE RAMP.
- EXPANSION JOINT FOR THE RAMP SHALL BE A MAXIMUM 1/2" WIDE. THE TOP OF THE JOINT FILLER FOR RAMP TYPES SHALL BE FLUSH WITH ADJACENT CONCRETE.
- CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS.
- SLOPE OF RAMP MAY BE MODIFIED WHEN FIELD CONDITIONS WARRANT AND WHEN APPROVED BY THE JOHNSON COUNTY PLANNING ENGINEER.



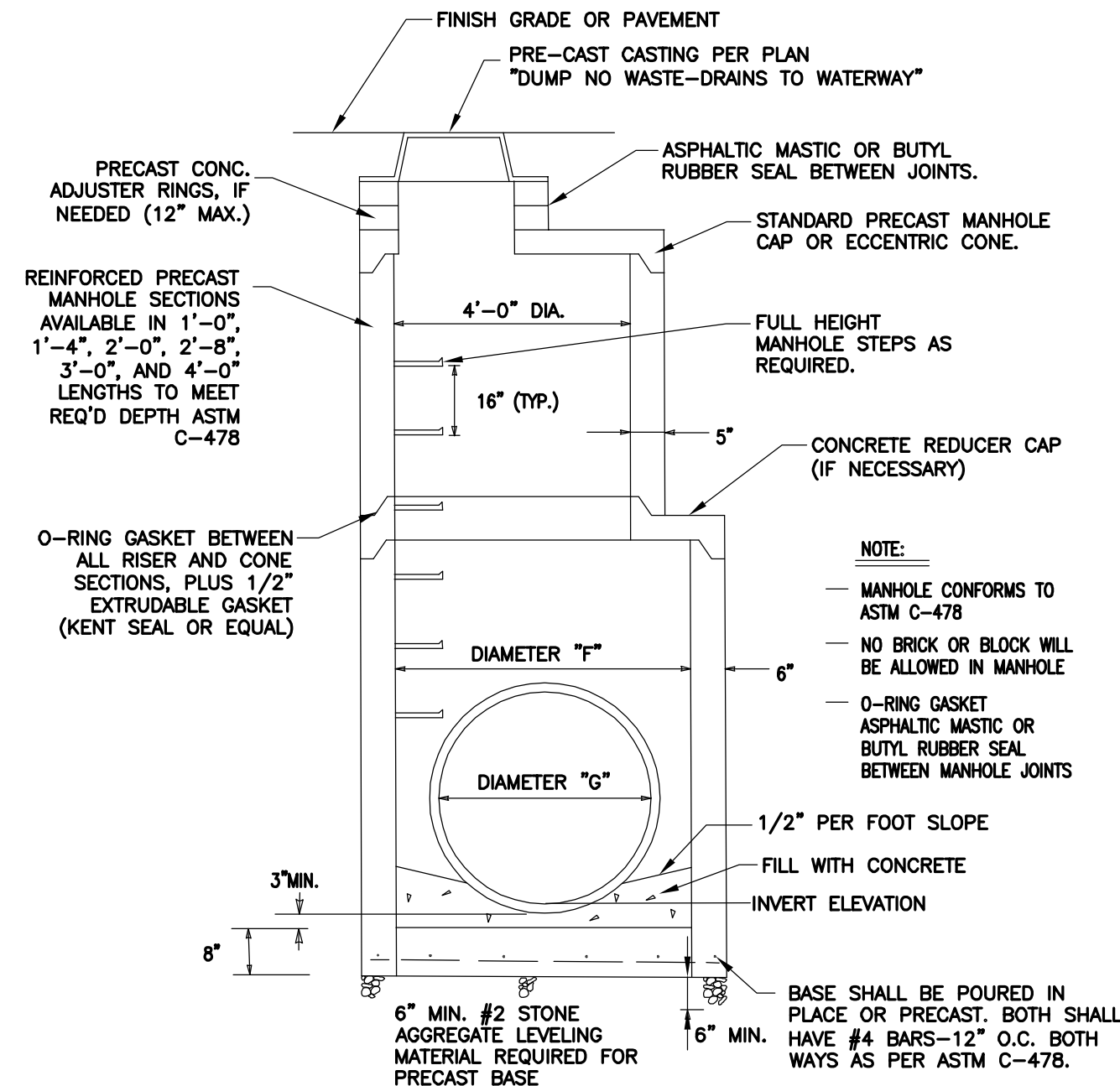
DATE	
REVISION	
SYMBOL	
SCALE	NONE
DRAWN	JPH
CHECKED	JPH
CERTIFIED	JKS
PROJECT	BERRY CHASE - SECTION ONE
TITLE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
SEAL	
JOB NUMBER	20019.01
SHEET	C1301
DATE	AUGUST 30, 2022

GREENWOOD SURVEYING COMPANY

CIVIL ENGINEERING - LAND SURVEYING
LAND PLANNING & CONSTRUCTION MANAGEMENT
2650 Fairview Plaza, Suite W - Greenwood, Indiana 46142
(317)-882-5003

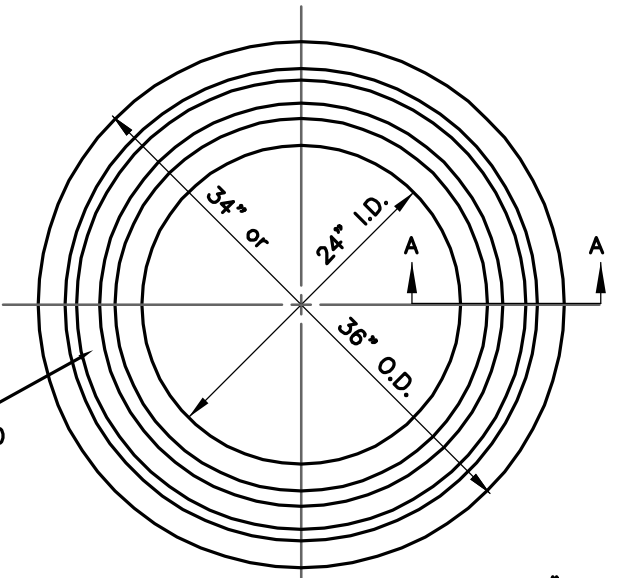
PROJECTS plus

PIPE SIZE (DIA. "G")	MANHOLE (DIA. "F") PIPES ENTERING/LEAVING AT 0-45 DEGREES	MANHOLE (DIA. "F") PIPES ENTERING/LEAVING AT 45-90 DEGREES
12"-21"	48"	48"
24"	48"	60"
27"-30"	60"	60"
33"-36"	60"	72"
42"	72"	84"
48"	72"	96"
54"	96"	108"
60"	96"	108"

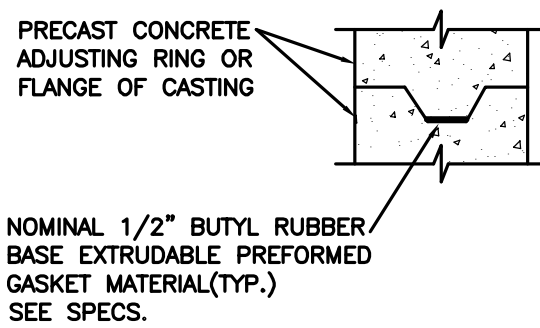


STANDARD STORM MANHOLE

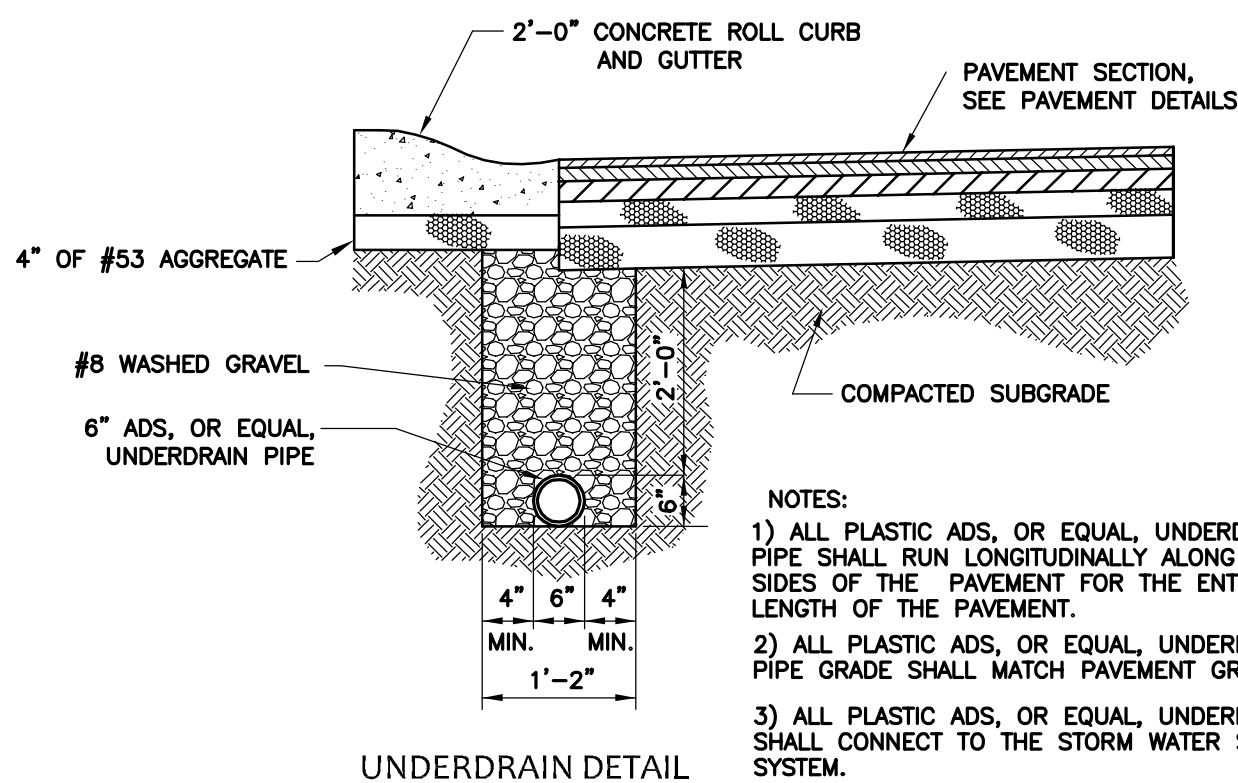
NOTES:
1) ALL STRUCTURES TO BE PRE-CAST. NO CAST IN PLACE STRUCTURES ALLOWED.



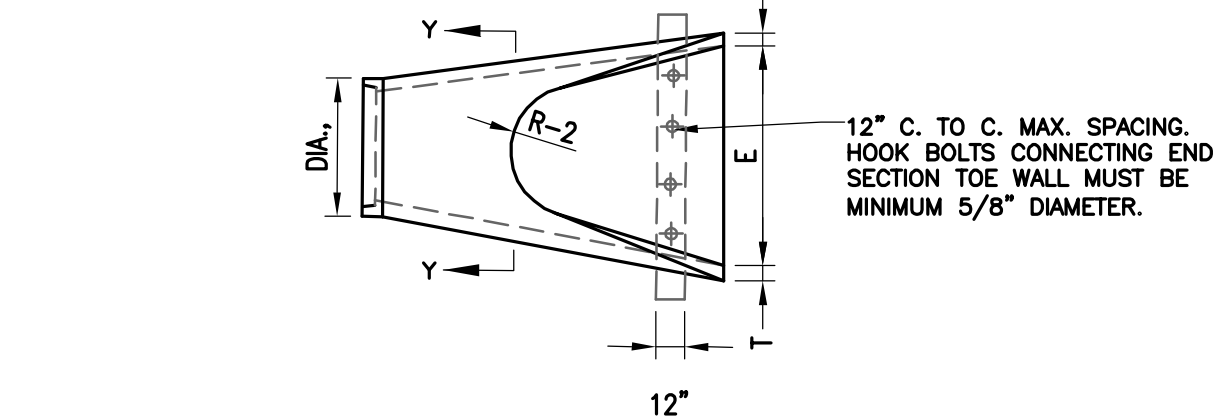
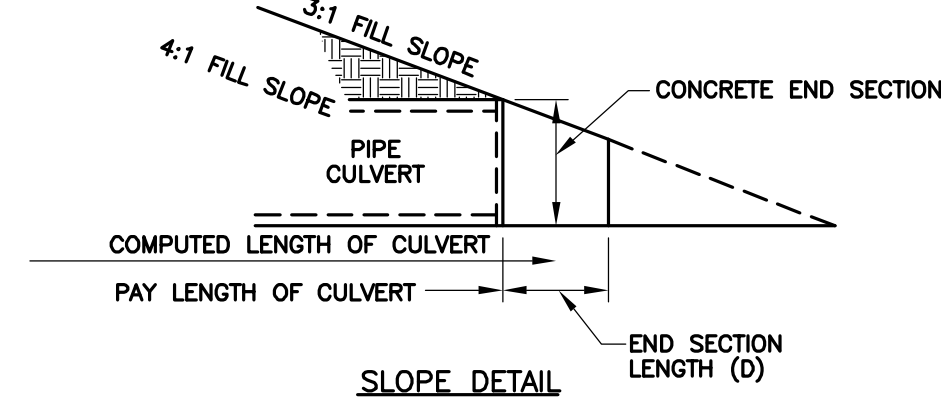
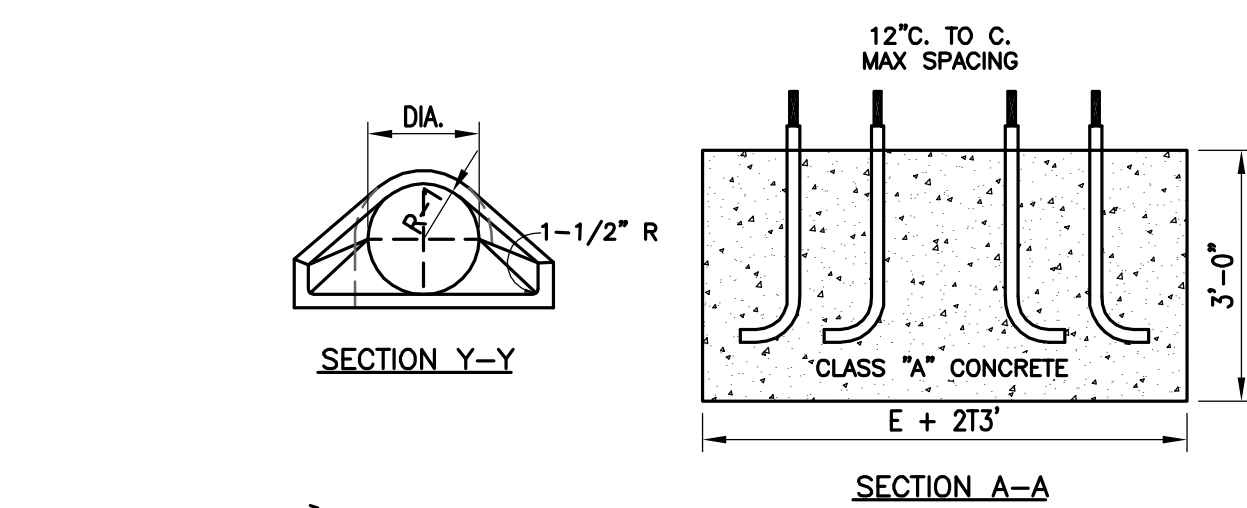
PLACE 1/2" DIAMETER EXTRUDABLE PREFORMED GASKET MATERIAL IN KEYWAY (SEE DETAIL)



ADJUSTING RING DETAIL



NOTES:
1) ALL PLASTIC ADS, OR EQUAL, UNDERDRAIN PIPE SHALL RUN LONGITUDINALLY ALONG BOTH SIDES OF THE PAVEMENT FOR THE ENTIRE LENGTH OF THE PAVEMENT.
2) ALL PLASTIC ADS, OR EQUAL, UNDERDRAIN PIPE GRADE SHALL MATCH PAVEMENT GRADE.
3) ALL PLASTIC ADS, OR EQUAL, UNDERDRAIN SHALL CONNECT TO THE STORM WATER SEWER SYSTEM.

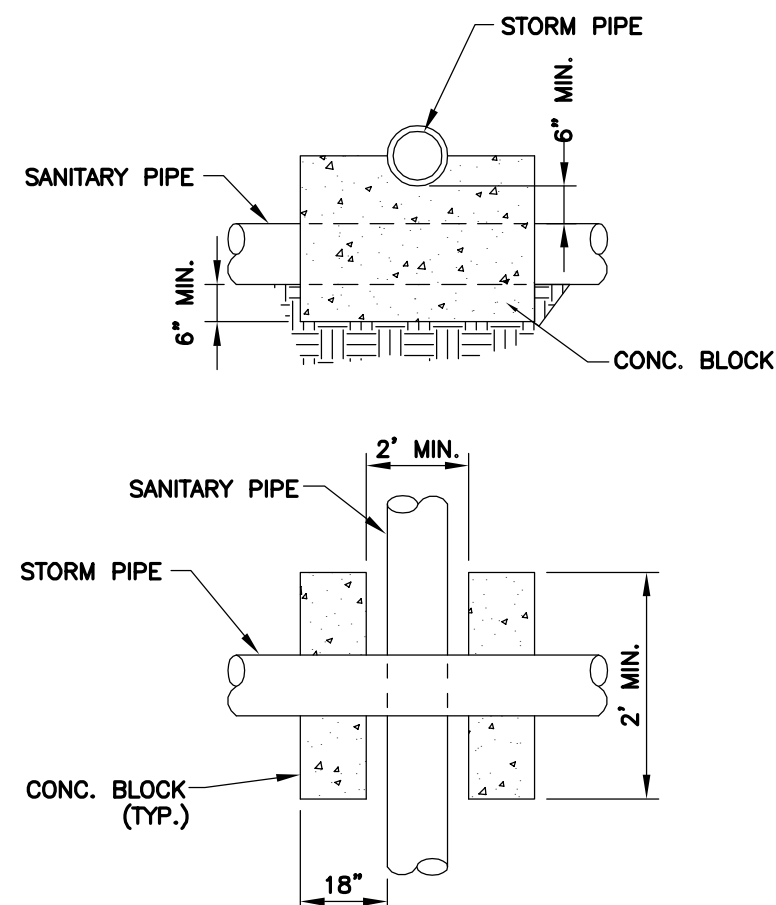


LONGITUDINAL SECTION

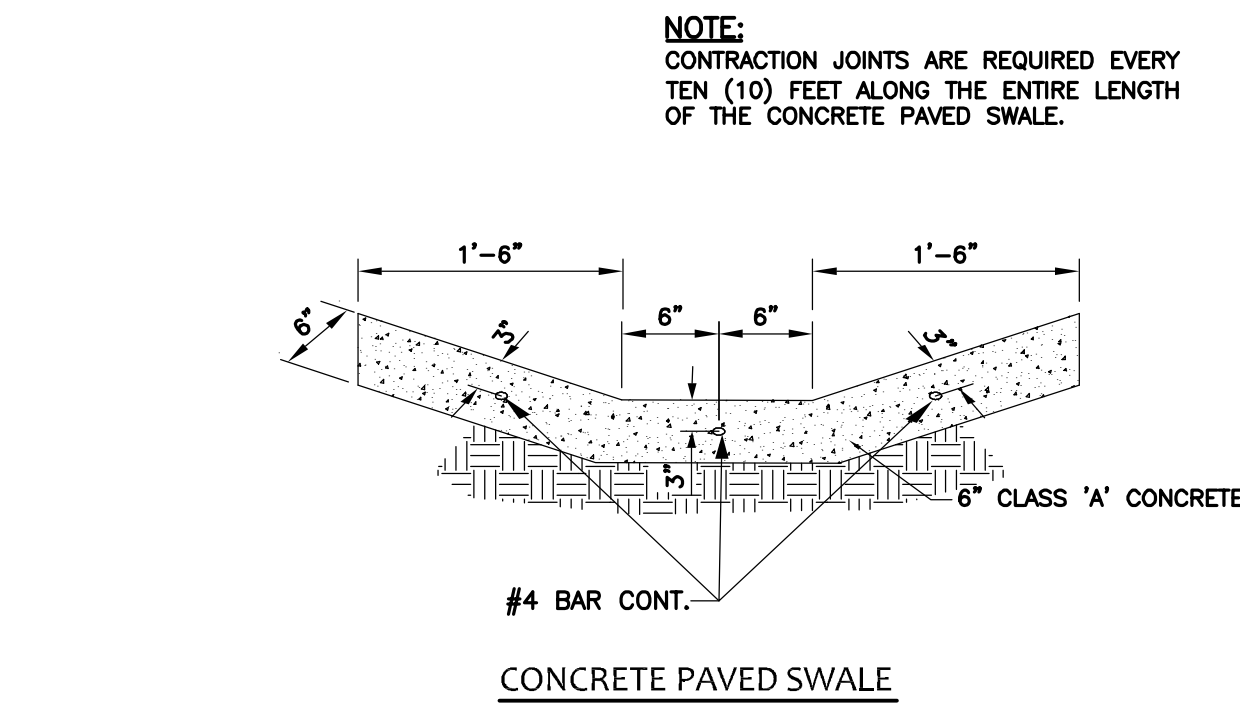
DIA.	WALL	WT. SEC.	A	B	C	D	E	R-1	R-2	SKIRT	
12	2	530	4	24	48 7/8	72 7/8	24	10 1/16	9	3 1/2	
15	2 1/4	740	6	27	46 7/8	73	30	12 1/2	11	3 1/2	
18	2 1/2	990	9	27	46 7/8	73	36	15 1/2	12	4	
21	2 3/4	1280	9	35	38	73	42	16 1/8	13	4	
24	3	1520	9 1/2	43	43 1/2	30	73 1/2	48	18 1/16	14	4 1/2
27	3 1/4	1930	10 1/2	48	25 1/2	73 1/2	54	17 3/4	14 1/2	4 1/2	
30	3 1/2	2190	12	54	19 3/4	73 3/4	60	18 5/16	15	5	
33	3 3/4	2150	13 1/2	63	58 1/2	59 1/4	87 3/4	23 3/4	17 1/2	5 1/2	
36	4	4100	15	63	54 3/4	87 3/4	72	24 1/16	20	5 1/2	
42	4 1/2	5380	21	83	38	88	78	27 1/4	22	5 1/2	
48	5	6550	24	72	28	98	84	28 1/8	22	5 3/4	
54	5 1/2	8040	27	65	35	100	90	32 7/8	24	6 1/4	

NOTES:
CONCRETE IN THIS SECTION SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 CLASS 11 (AS SET OUT IN STANDARD SPECIFICATIONS).
REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR THE REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 CLASS II FOR THE SIZE OF CONNECTION PIPE.
REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LEG OF STEEL IN THE "C" PORTION.
THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.
IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.
VARIATION IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITIONS OF STEEL AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76.
CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. HOOK BOLTS CONNECTING END SECTION TO TOE WALL MUST BE MINIMUM 5/8" DIAMETER.

PRECAST CONCRETE END SECTION

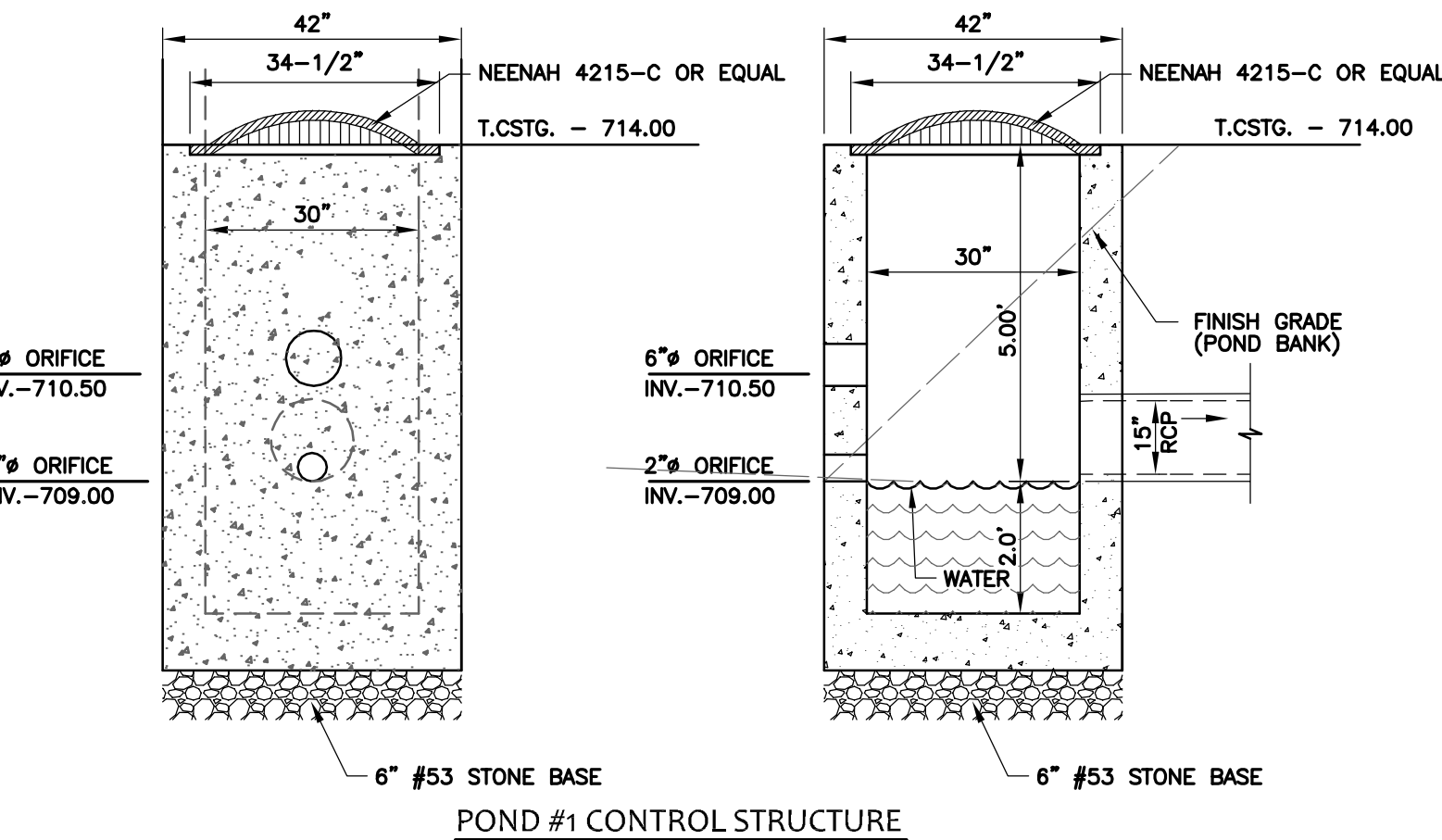


CONCRETE CRADLE IF NECESSARY

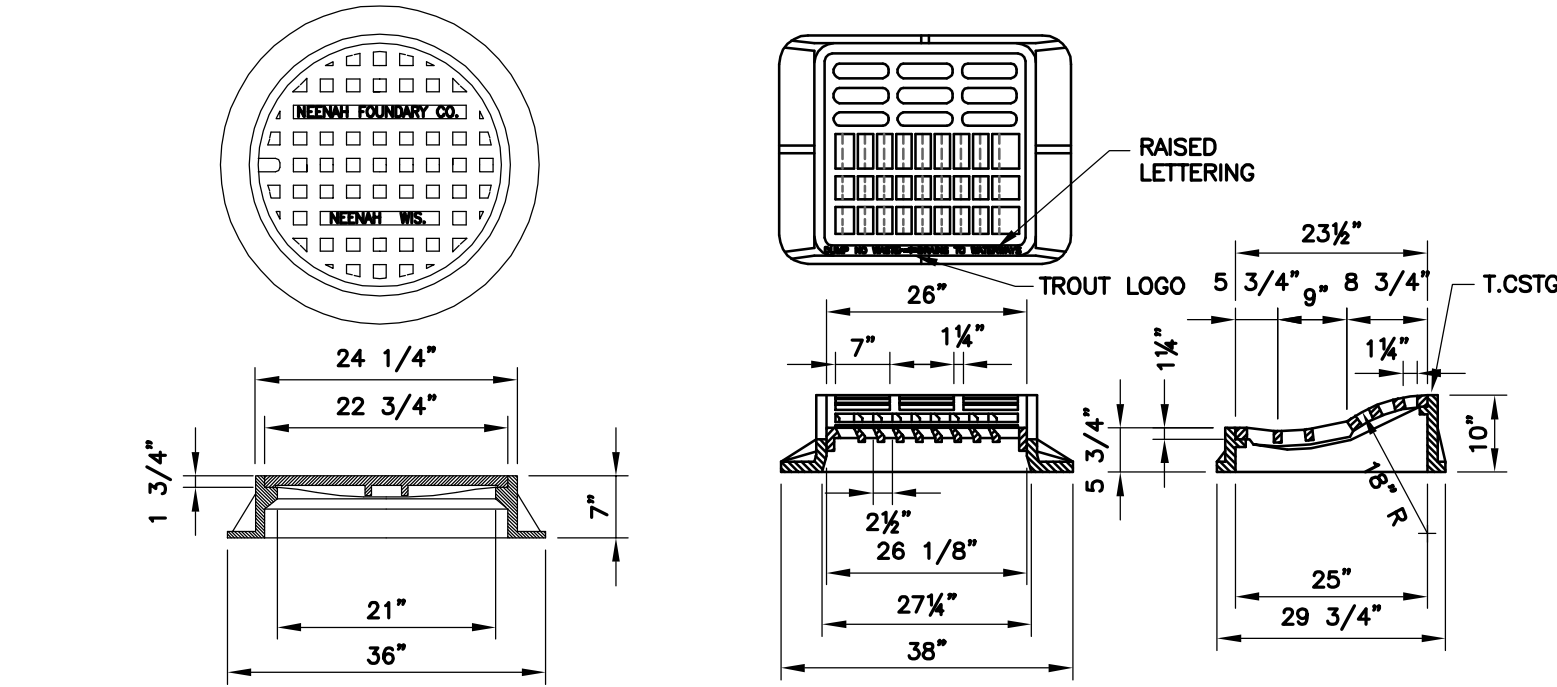


CONCRETE PAVED SWALE

ADDITIONAL DETAILS REQUIRED:
1. METAL END SECTION
2. DUAL INLETS (USED AT ALL SAGS - SEE DETAIL ATTACHED TO COMMENT LETTER)
3. ARMOR AT EMERGENCY SPILLWAY (SEE DETAIL ATTACHED TO COMMENT LETTER)



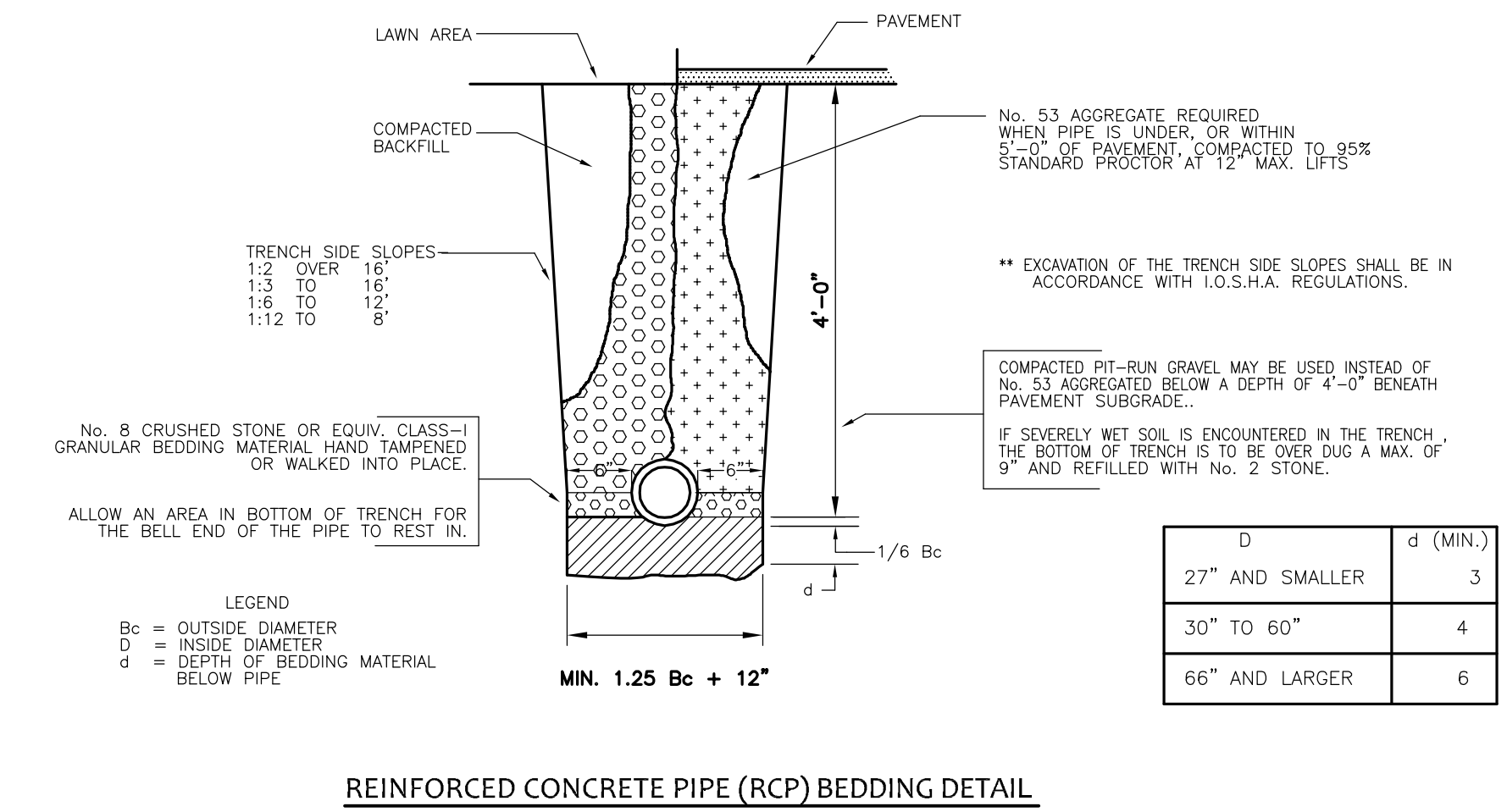
POND #1 CONTROL STRUCTURE



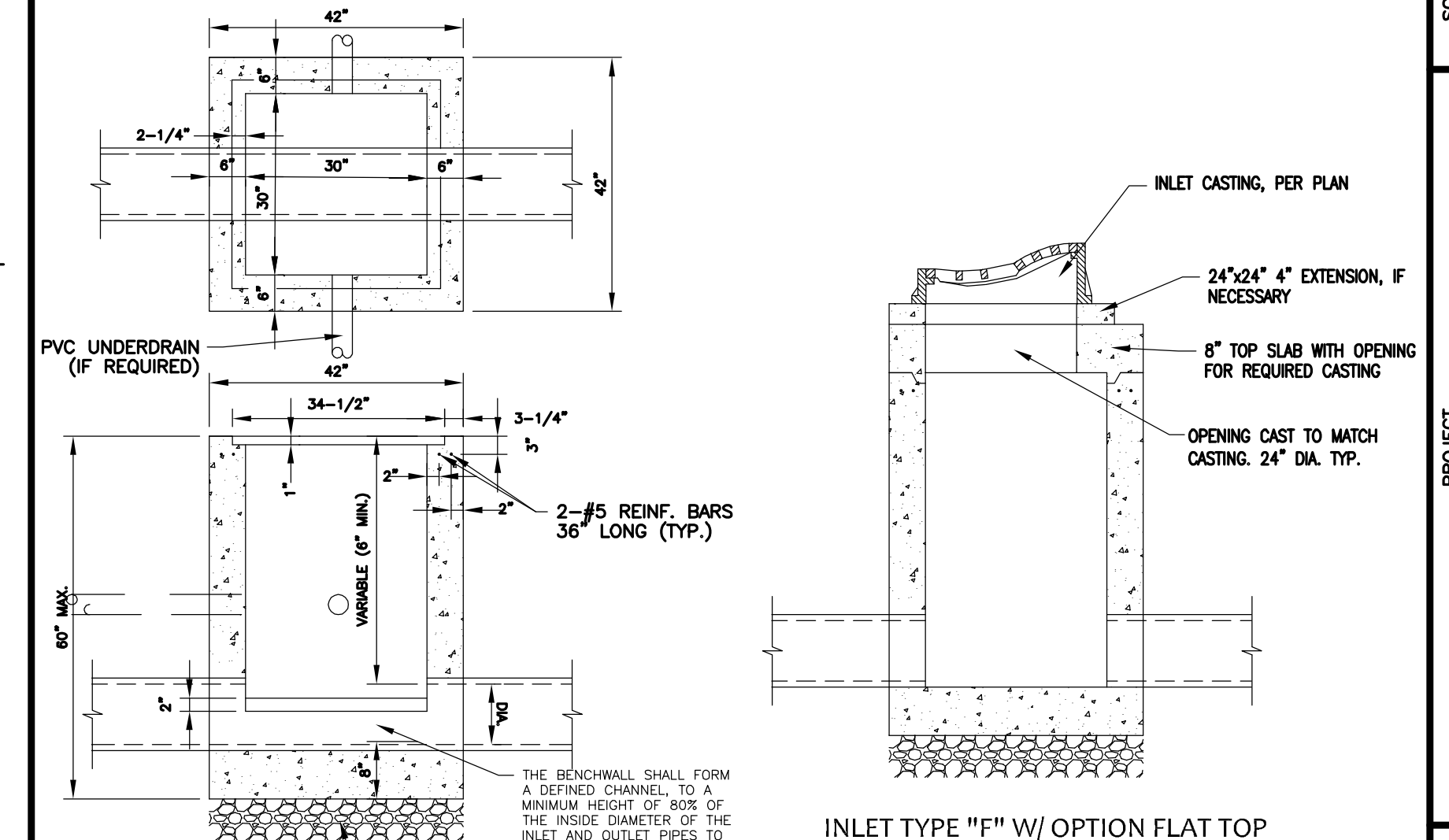
HEAVY DUTY
ALSO AVAILABLE WITH NON-ROCKING FEATURE.
ALSO FURNISHED WITH 34" DIAMETER FLANGE.

R-1772 MANHOLE FRAME, SOLID LID

CASTING NOTE:
ALL STORM CASTINGS ARE TO HAVE THE REQUIRED "NO DUMPING, DRAINS TO STREAM" AND A SYMBOL OF A FISH CAST IN RAISED OR RECESSED LETTER AT A HEIGHT OF 1" MINIMUM.

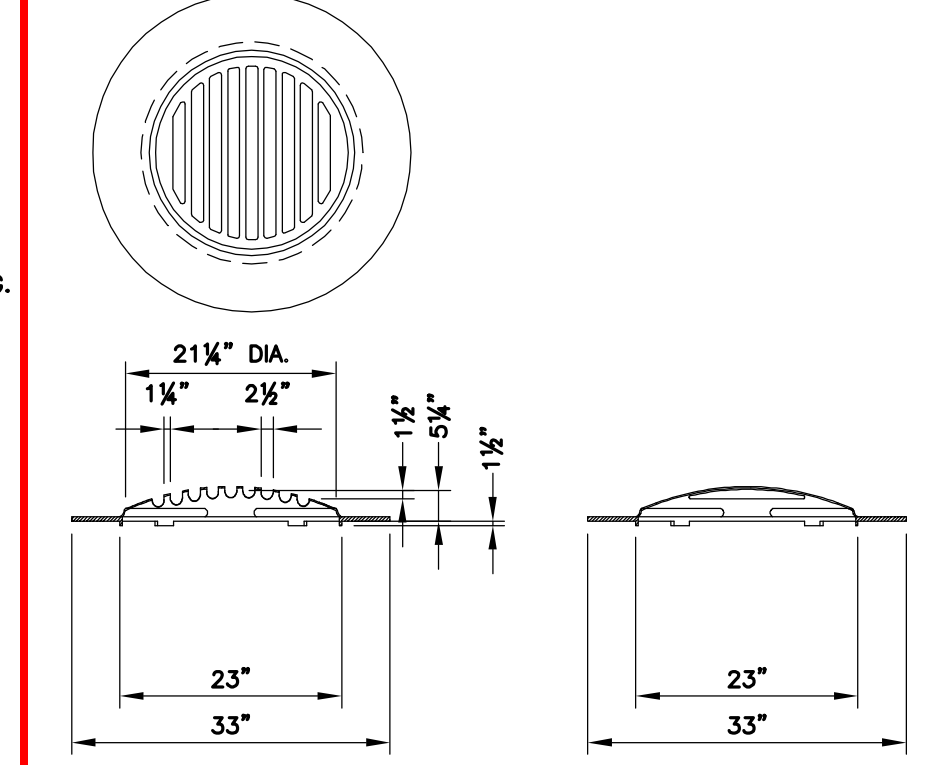


REINFORCED CONCRETE PIPE (RCP) BEDDING DETAIL



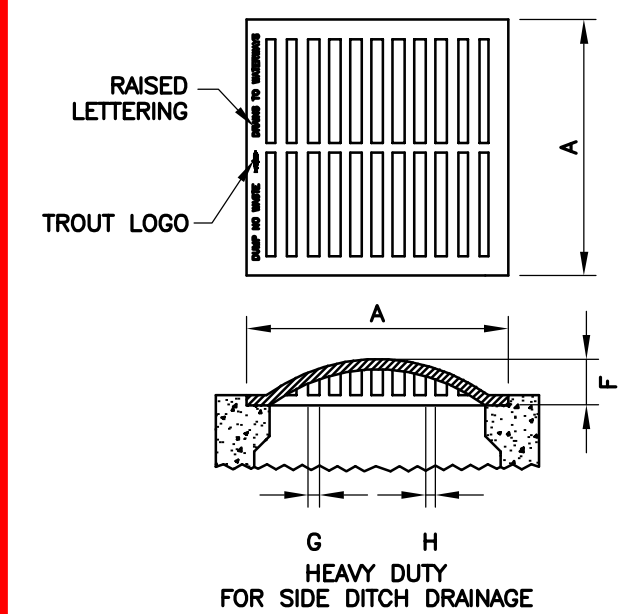
NOTES:
1. IN ACCORDANCE WITH INDIANA STATE HIGHWAY SPECIFICATIONS.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH 4000 P.S.I.
3. PRECAST ADJUSTING SECTIONS AVAILABLE.

INLET TYPE "F"



R-4342 DITCH GRATE, STOOL TYPE

THIS CASTING IS NOT APPROPRIATE FOR A 30"-SQUARE INLET; USE INDOT TYPE 7 (NEENAH R-4215-C)



CATALOG NO.	DIMENSIONS IN INCHES				WT. LBS.	
	A	F	G	H		
R-4215-A	24x30	4	1 1/4	1 5/8	1 1/2	160
R-4215-C	34x34	6	1 1/2	1 1/4	190	

R-4215 SERIES CONVEX GRATES

DATE	REVISION	SYMBOL	SCALE	NONE	DRWN	JPH	CHECKED	JPH	CERTIFIED	JKS

PROJECT TITLE
BERRY CHASE - SECTION ONE
WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
STORM SEWER DETAILS

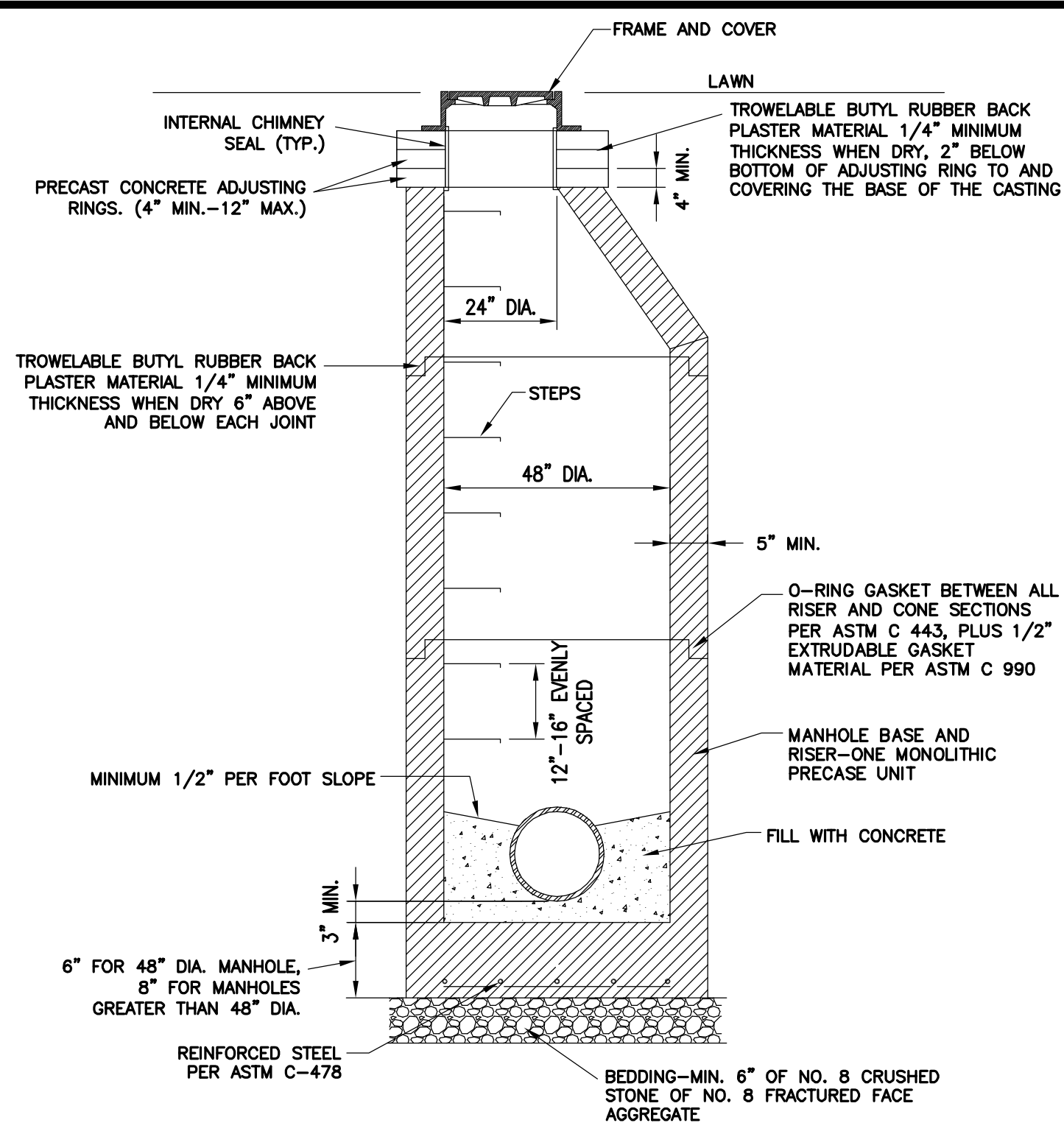
PROJECTS plus
GREENWOOD SURVEYING COMPANY
ENGINEERING, LAND SURVEYING, CONSTRUCTION MANAGEMENT
2850 Fairview Place Suite # - Greenwood, Indiana (317)-882-5003

SEAL
JEFFERY K. SMITH
REGISTERED PROFESSIONAL ENGINEER
No. 19419
STATE OF INDIANA
Jeffery K. Smith
8/30/22

JOB NUMBER
20019.01
SHEET

C1401

DATE
AUGUST 30, 2022



STANDARD SANITARY MANHOLE – FIGURE 300.01

NOTES:

- MANHOLE STEPS SHALL BE POLYPROPYLENE, POLYPROPYLENE COATED STEEL REINFORCING OR AN APPROVED NON-CORROSIVE FIBERGLASS MATERIAL. THE COPOLYMER POLYPROPYLENE SHALL MEET THE REQUIREMENTS OF ASTM D-4101 REINFORCED WITH DEFORMED 3/8 INCH MINIMUM DIAMETER REINFORCING STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. NON-COATED CAST IRON STEPS ARE NOT ACCEPTABLE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL INFILTRATION TESTS AND THE INFILTRATION FROM THE INFILTRATION TEST SHALL NOT EXCEED A RATE OF 100 GALLONS PER INCH OF PIPE DIAMETER PER DAY PER MILE OF PIPE.
- THE BASE AND FIRST BARREL SECTION SHALL BE ONE COMPLETE PRECAST UNIT.

MANHOLE DIAMETERS

THE FOLLOWING ARE MINIMUM MANHOLE DIAMETERS FOR SANITARY SEWERS ENTERING/EXITING A MANHOLE AT THE GIVEN RANGE OF ANGLES.

PIPE SIZE	PIPES ENTERING LEAVING AT	
	0°-45° BEND	45°-90° BEND
18" OR LESS	48"	48"
21"-24"	48"	60"
27"	60"	72"
30"-36"	60"	84"
42"	72"	96"
48"	N/A	SPECIAL DESIGN
54" OR LARGER	N/A	N/A

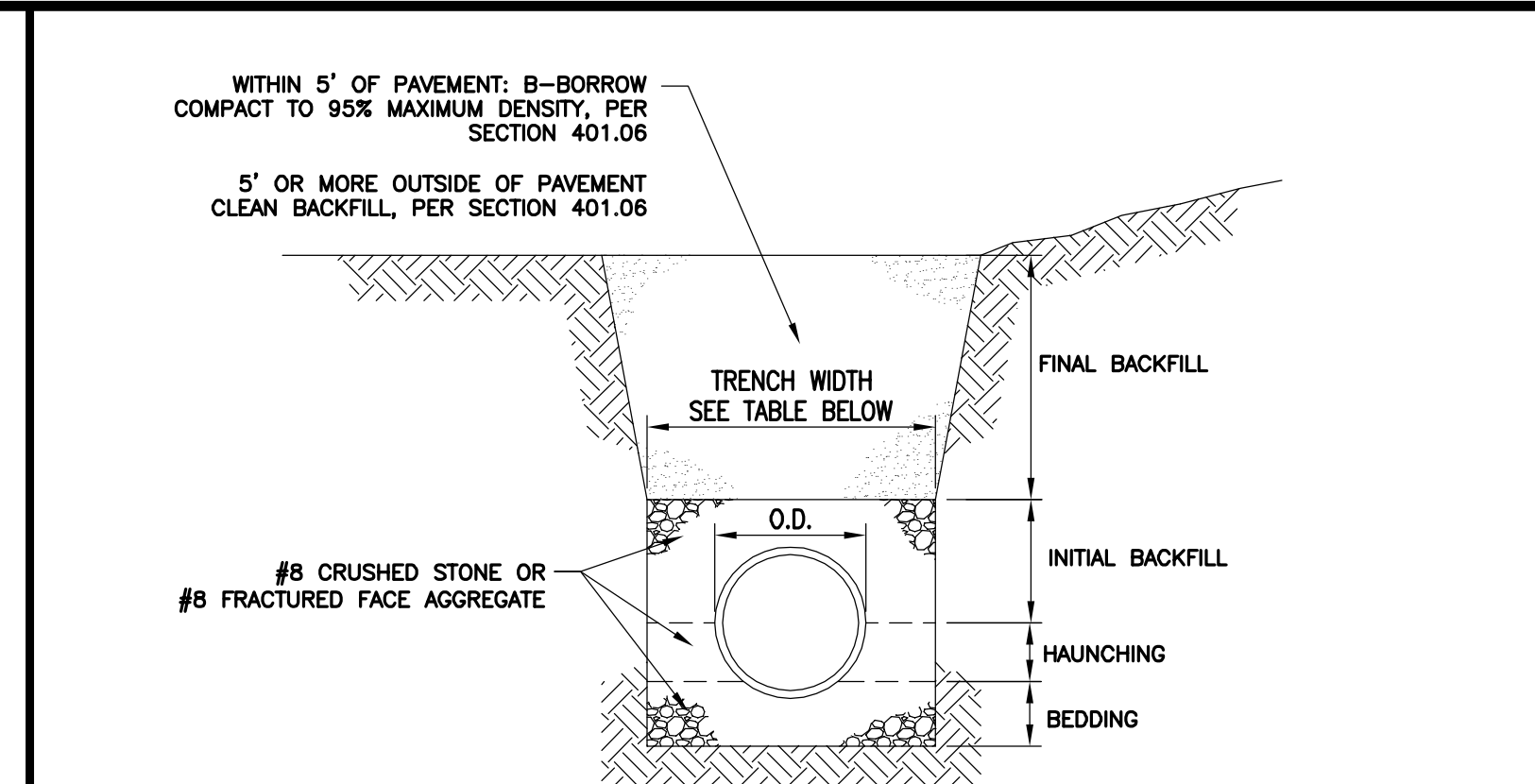
SEWER PIPE TO MANHOLE CONNECTIONS

TO CONNECT A SANITARY SEWER TO A MANHOLE, EITHER A FLEXIBLE BOOT KOR-N-SEAL 1 OR 2, FLEXIBLE CONNECTOR, CAST-IN-PLACE DURA-SEAL GASKET, T-LOCK GASKET OR AN APPROVED EQUAL SHALL BE USED. CONNECTIONS TO AN EXISTING MANHOLE SHALL BE A FLEXIBLE BOOT KOR-N-SEAL OR APPROVED EQUAL.

IF THE FLEXIBLE BOOT CONNECTION IS USED, IT SHALL BE PLACED IN THE REINFORCED CONCRETE MANHOLE BASE AND SECURED TO THE PIPE BY A STAINLESS STEEL CLAMP. FLEXIBLE CONNECTORS SHALL CONFORM TO ASTM C-923.

THE CAST-IN-PLACE INFLATABLE GASKET SHALL CONFORM TO ASTM C-923.

ALL CONNECTIONS SHALL PROVIDE FOR A WATERTIGHT SEAL BETWEEN THE PIPE AND MANHOLE. THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED UPON TO ASSURE A FLEXIBLE WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE



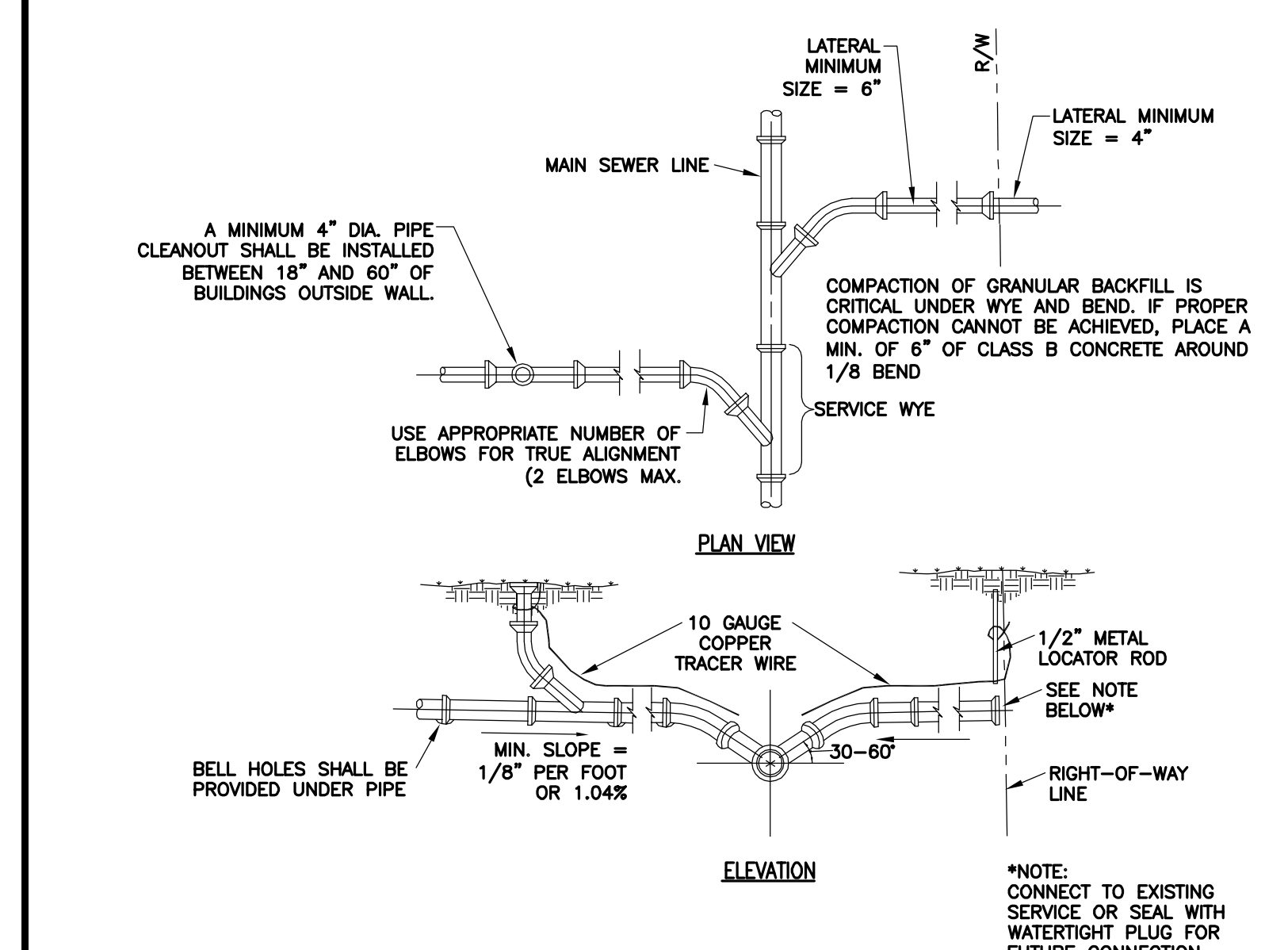
MINIMUM BEDDING, HAUNCHING, AND INITIAL BACKFILL DEPTHS

PIPE SIZE	BEDDING (BELOW PIPE BARREL)	HAUNCHING AND INITIAL BACKFILL (ABOVE TOP OF PIPE)
UNDER 8"	4" MIN.	4" MIN.
8" TO 15"	4" MIN.	12" MIN.
18" AND OVER	8" MIN.	12" MIN.

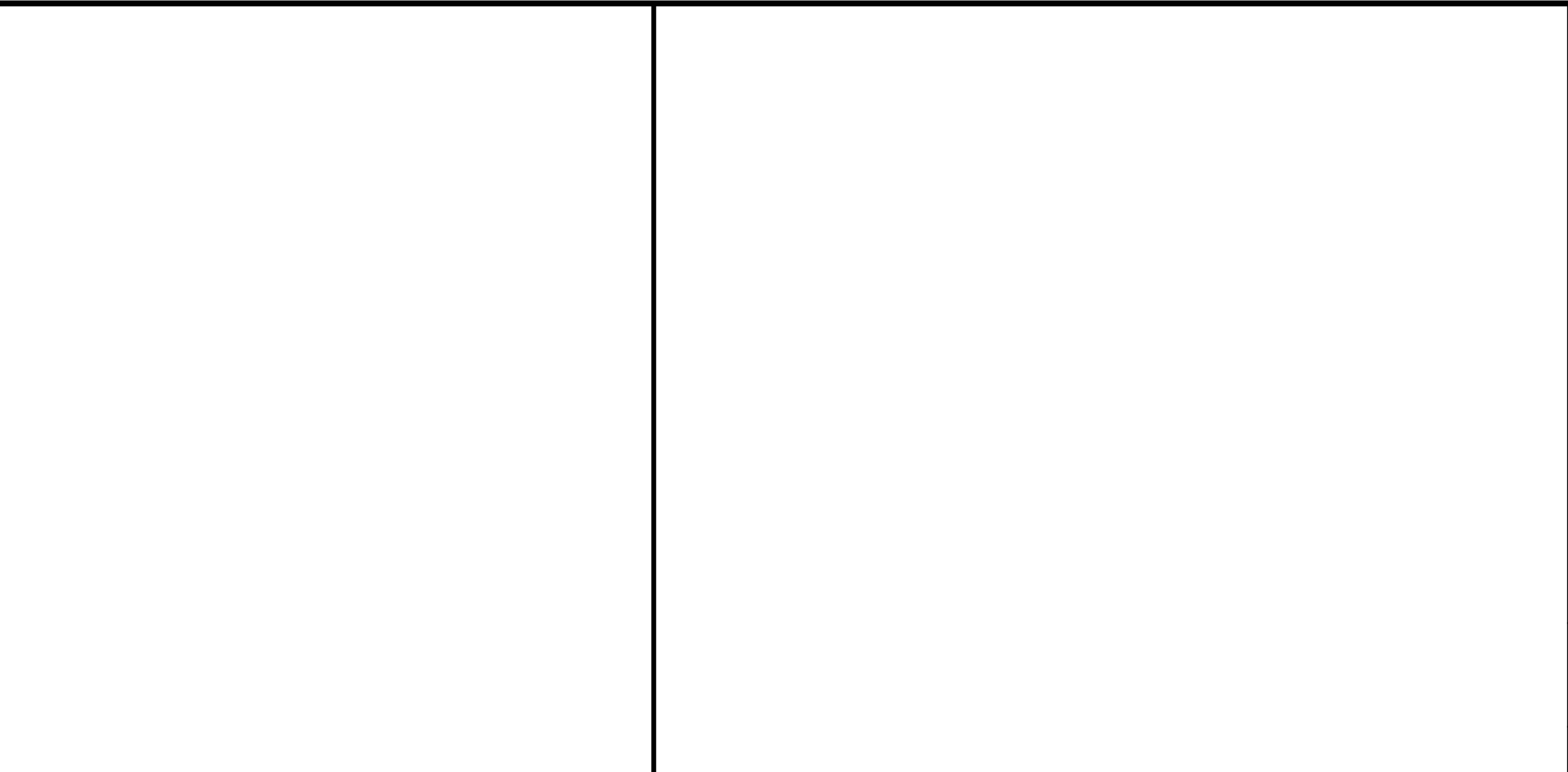
MINIMUM TRENCH WIDTHS

PIPE SIZE	MINIMUM WIDTH
UP TO 18"	O.D. + 16"
18" AND OVER	(O.D.X1.25) + 12"

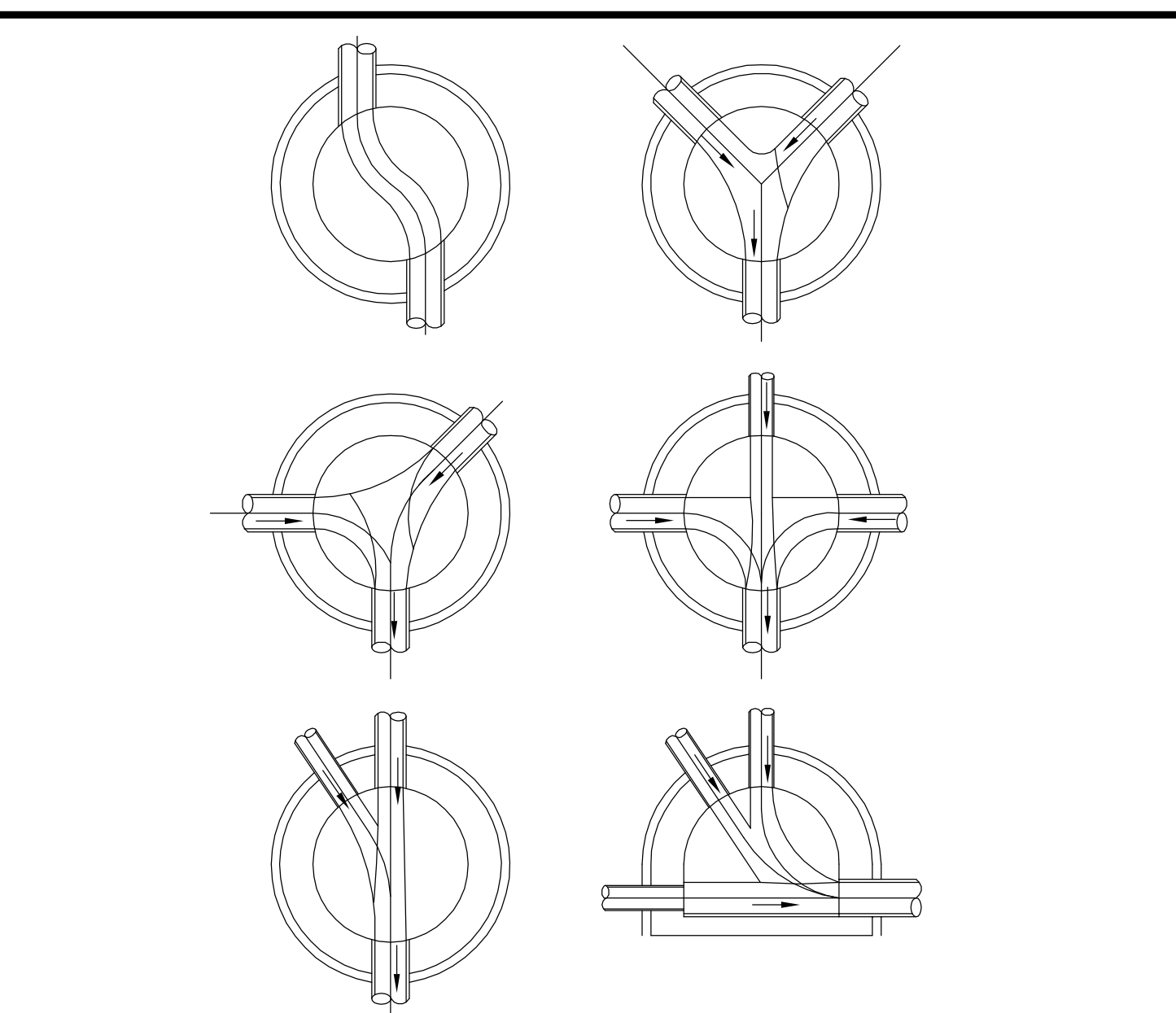
FLEXIBLE PIPE BEDDING AND BACKFILL REQUIREMENTS – FIGURE 400.01



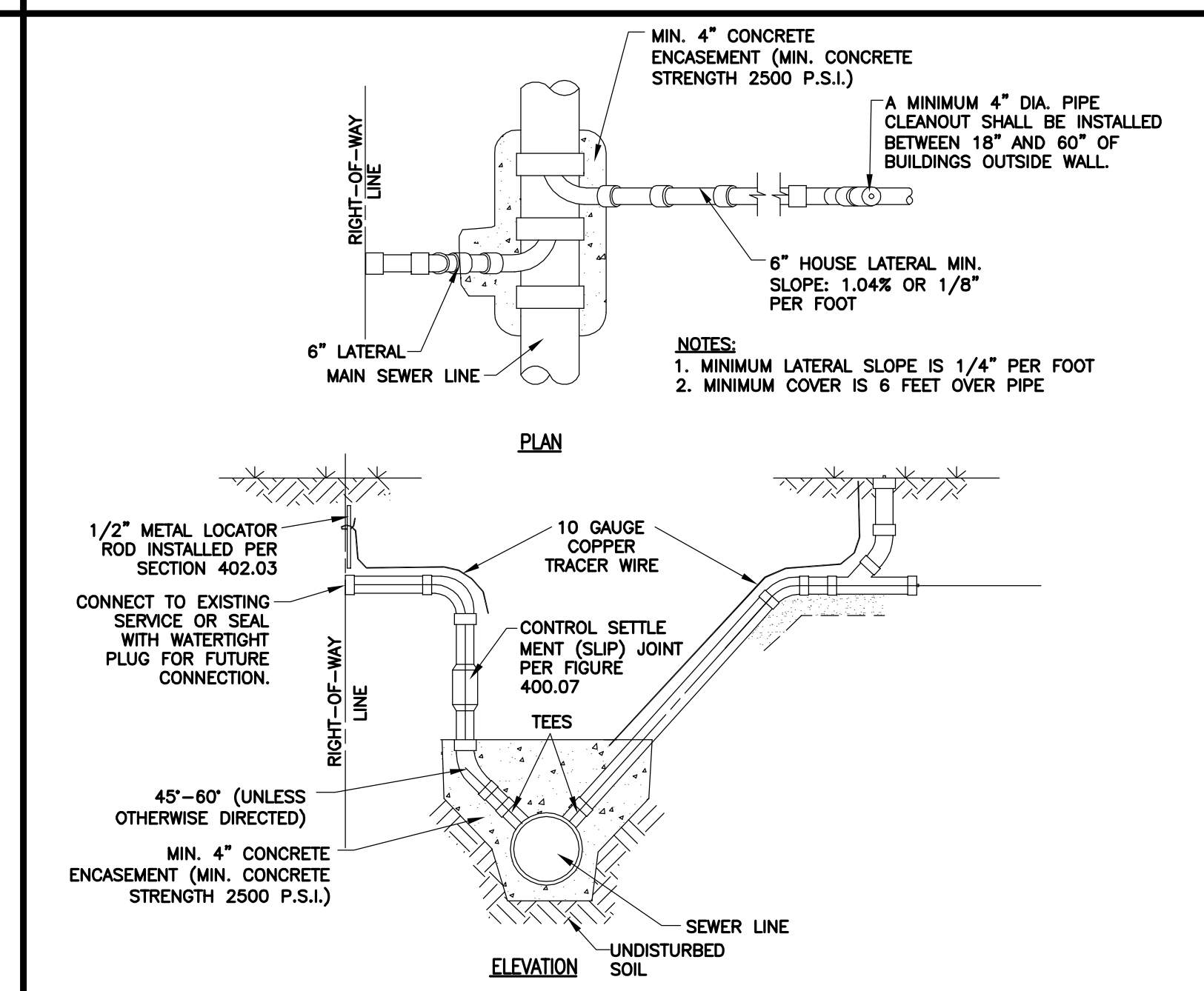
SERVICE CONNECTION FOR SHALLOW SEWERS – FIGURE 400.05 (LESS THAN 15' DEEP)



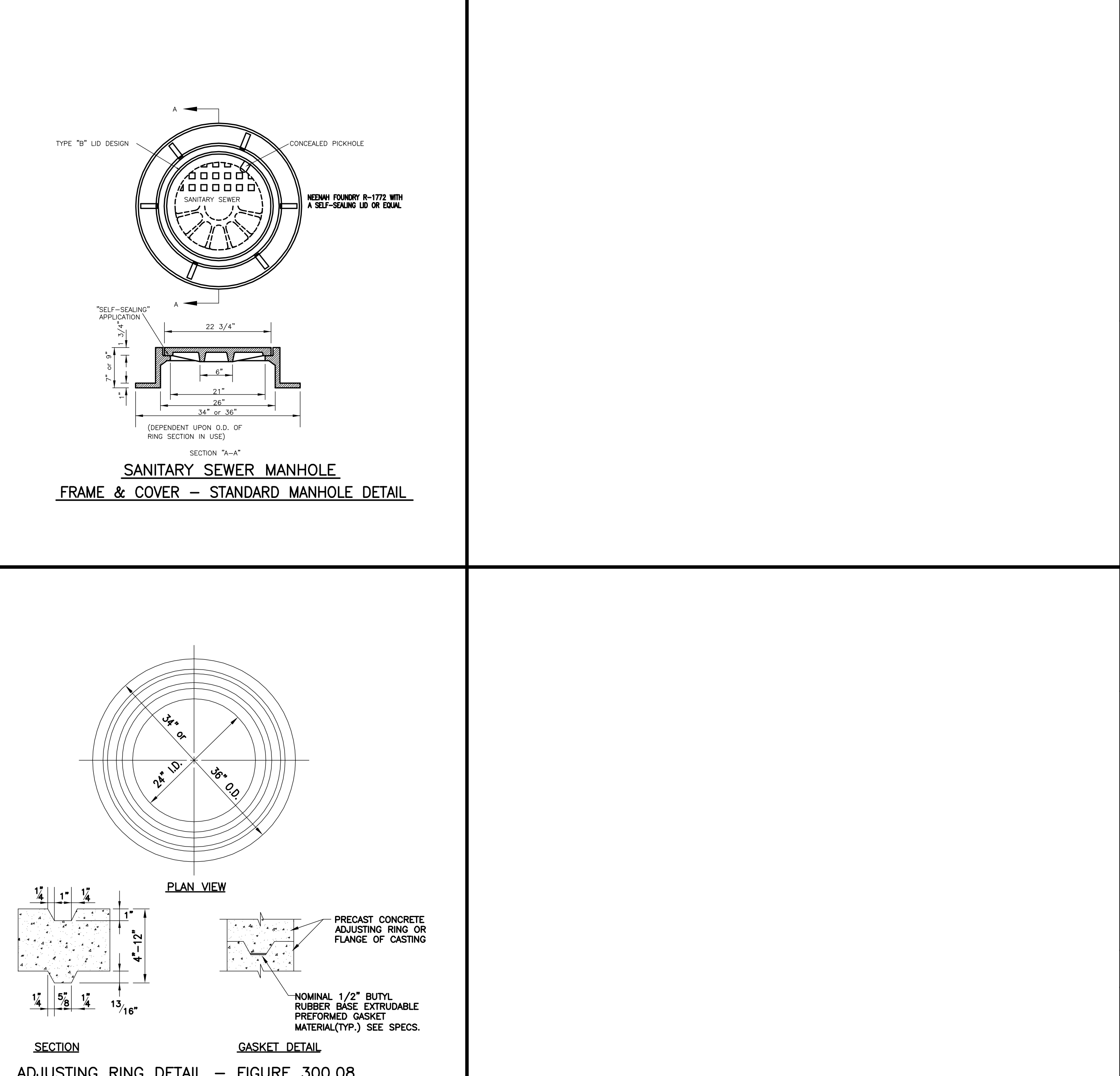
SANITARY SEWER MANHOLE FRAME & COVER – STANDARD MANHOLE DETAIL



STANDARD MANHOLE BENCHES – FIGURE 300.02



SERVICE CONNECTION FOR DEEP SEWERS – FIGURE 400.06 (15' DEEP AND OVER)



ADJUSTING RING DETAIL – FIGURE 300.08

DATE		REVISION		SYMBOL		SCALE		PROJECT	
						NONE	DRAWN	BERRY CHASE – SECTION ONE	WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
						JPH	CHECKED	SANITARY SEWER DETAILS	SANITARY SEWER DETAILS
						JKS	CERTIFIED		
						JKS	CERTIFIED		

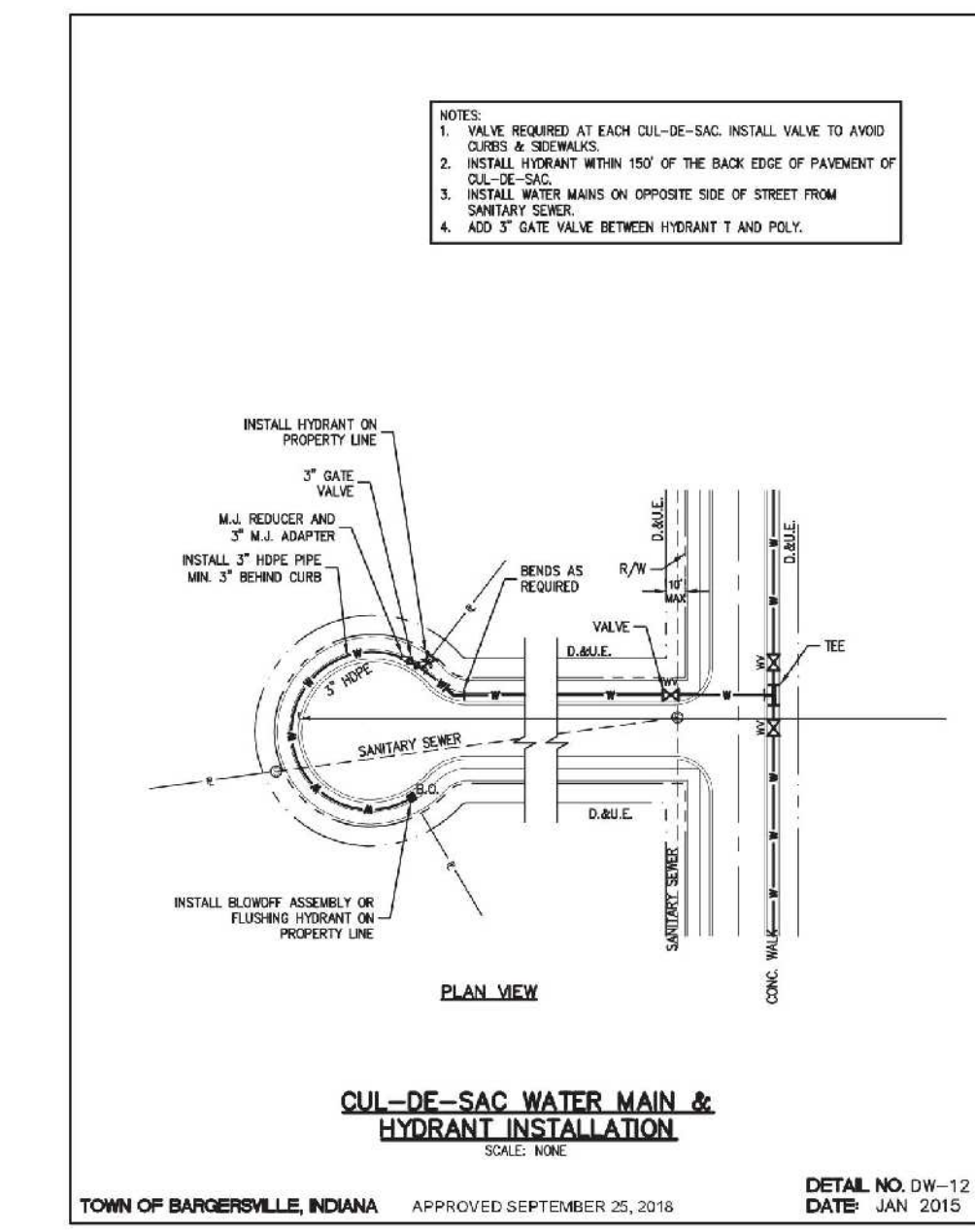
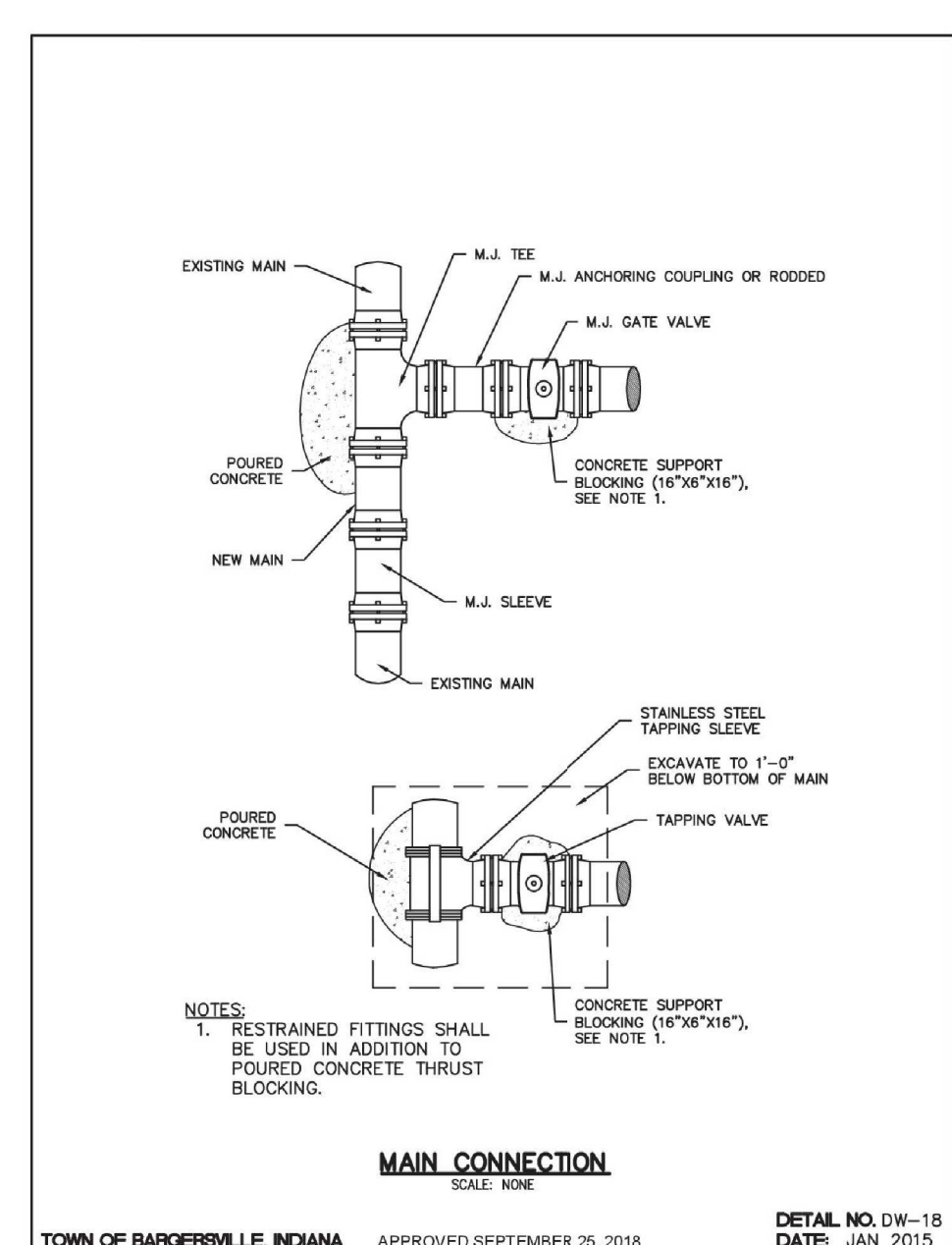
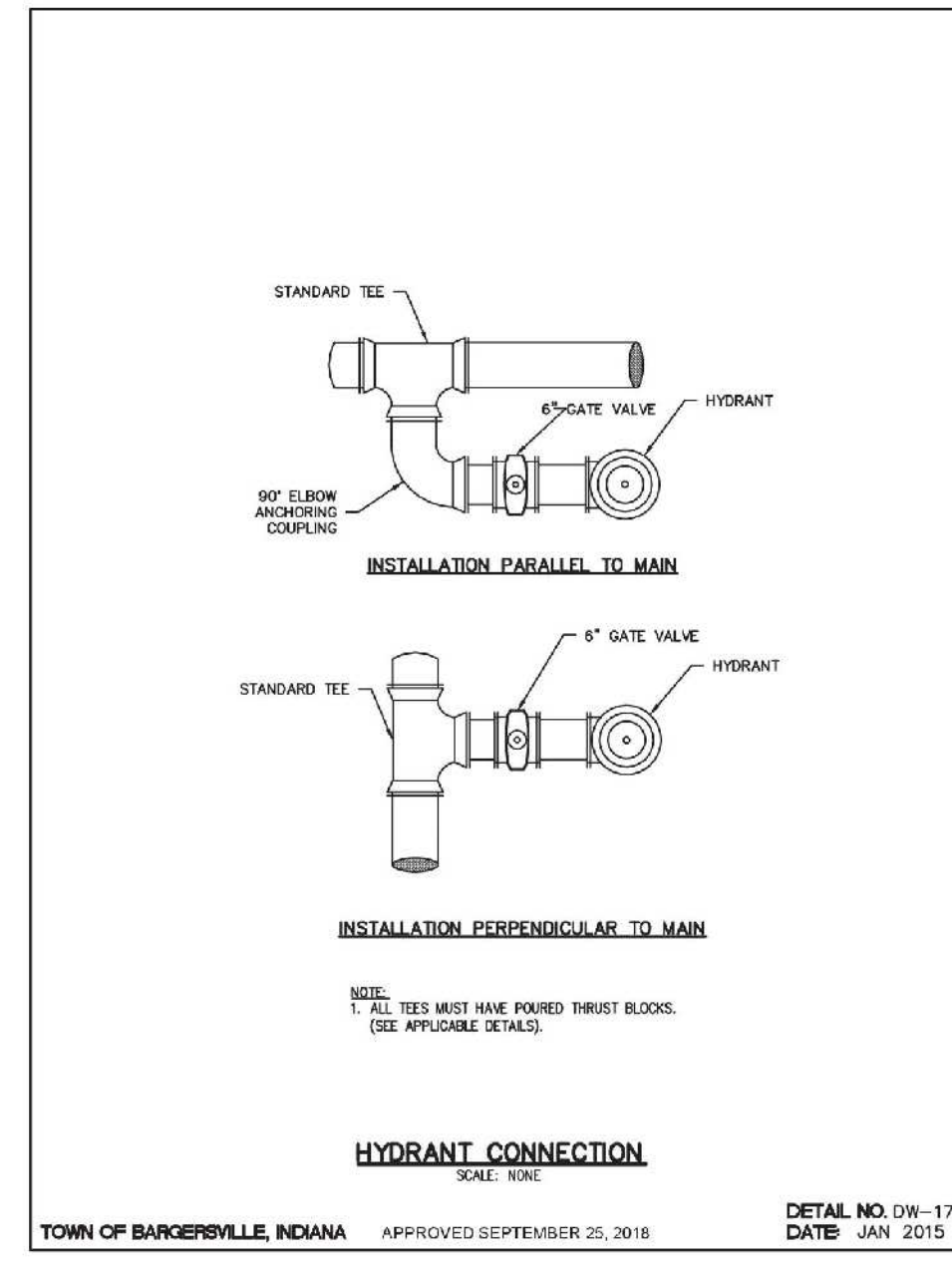
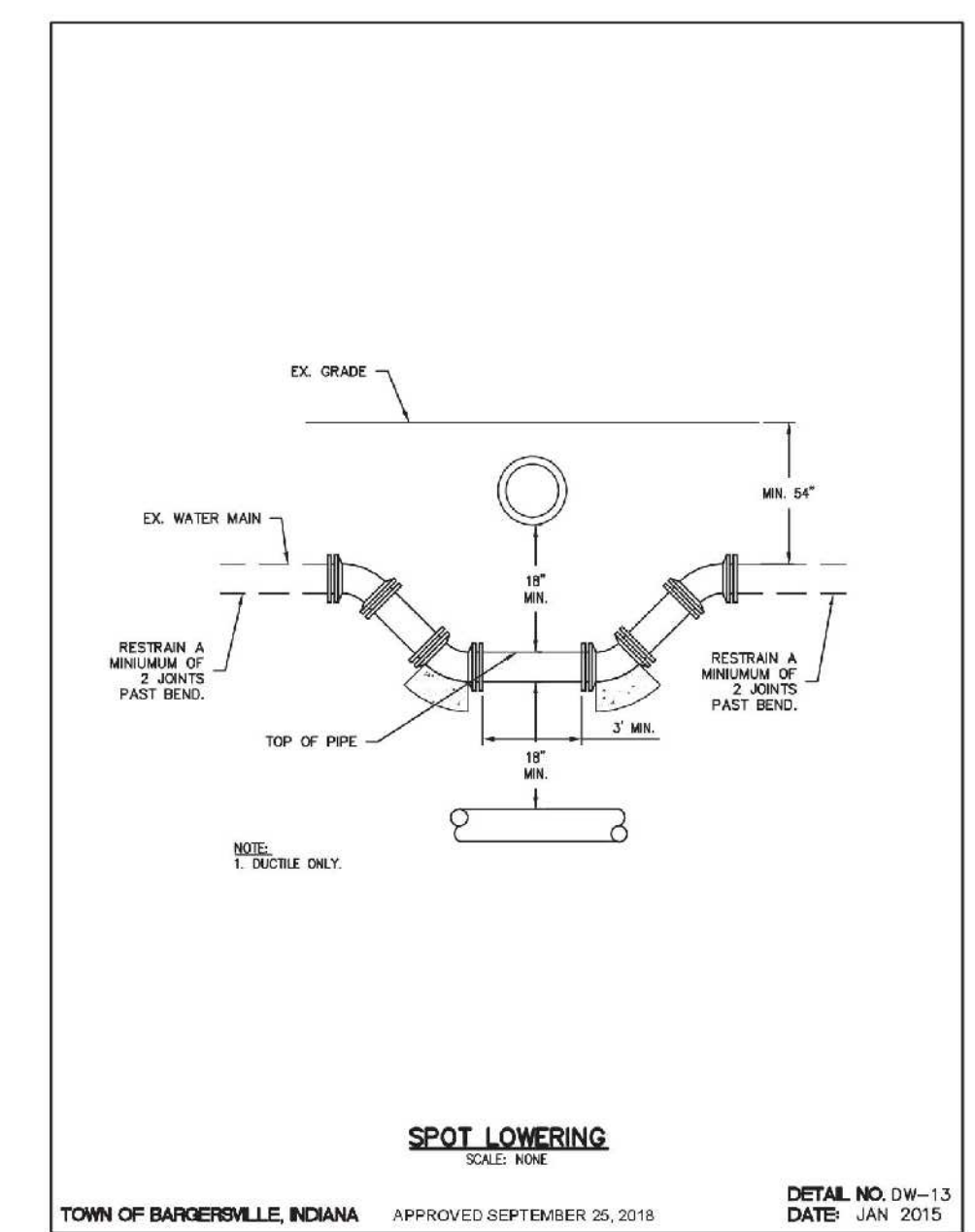
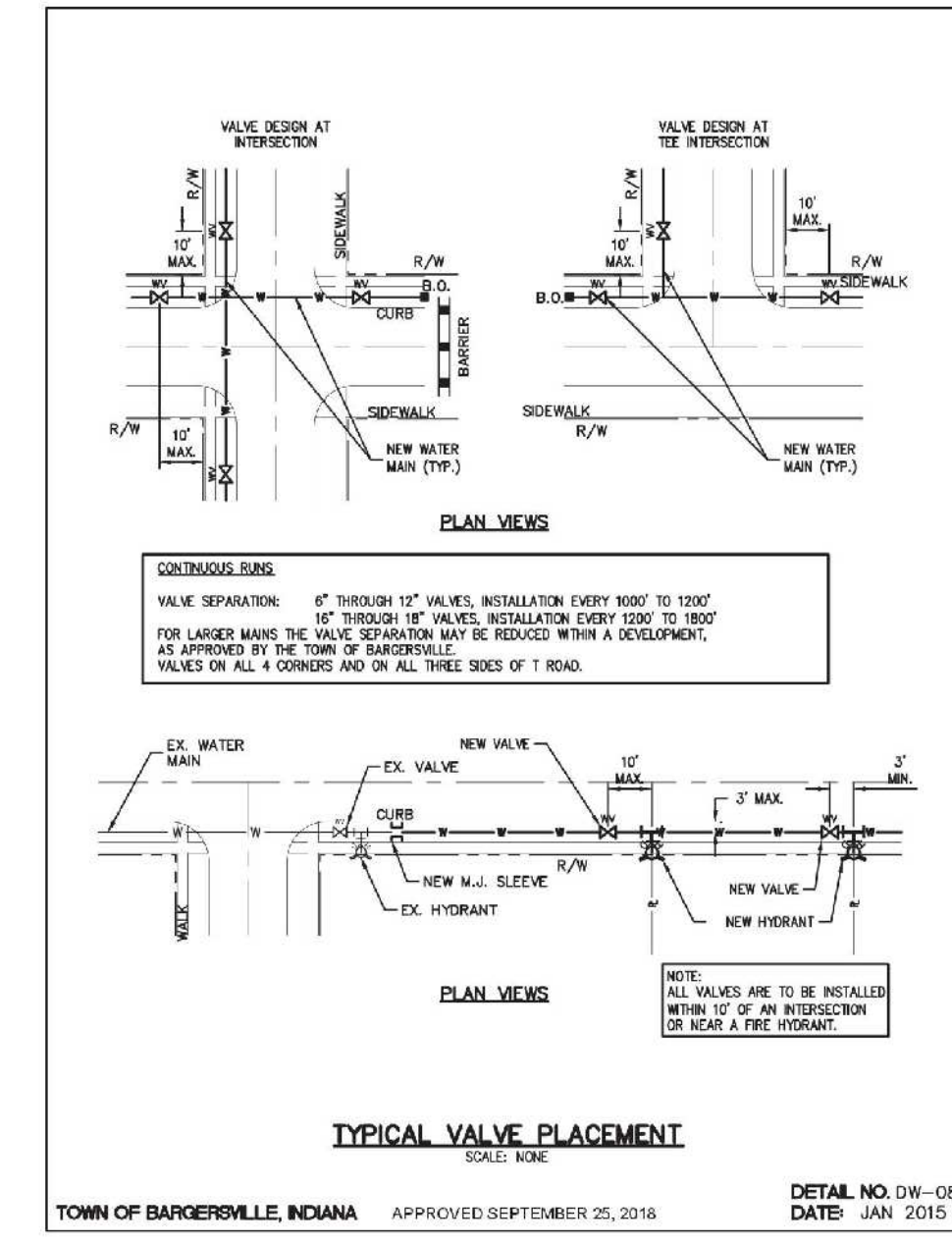
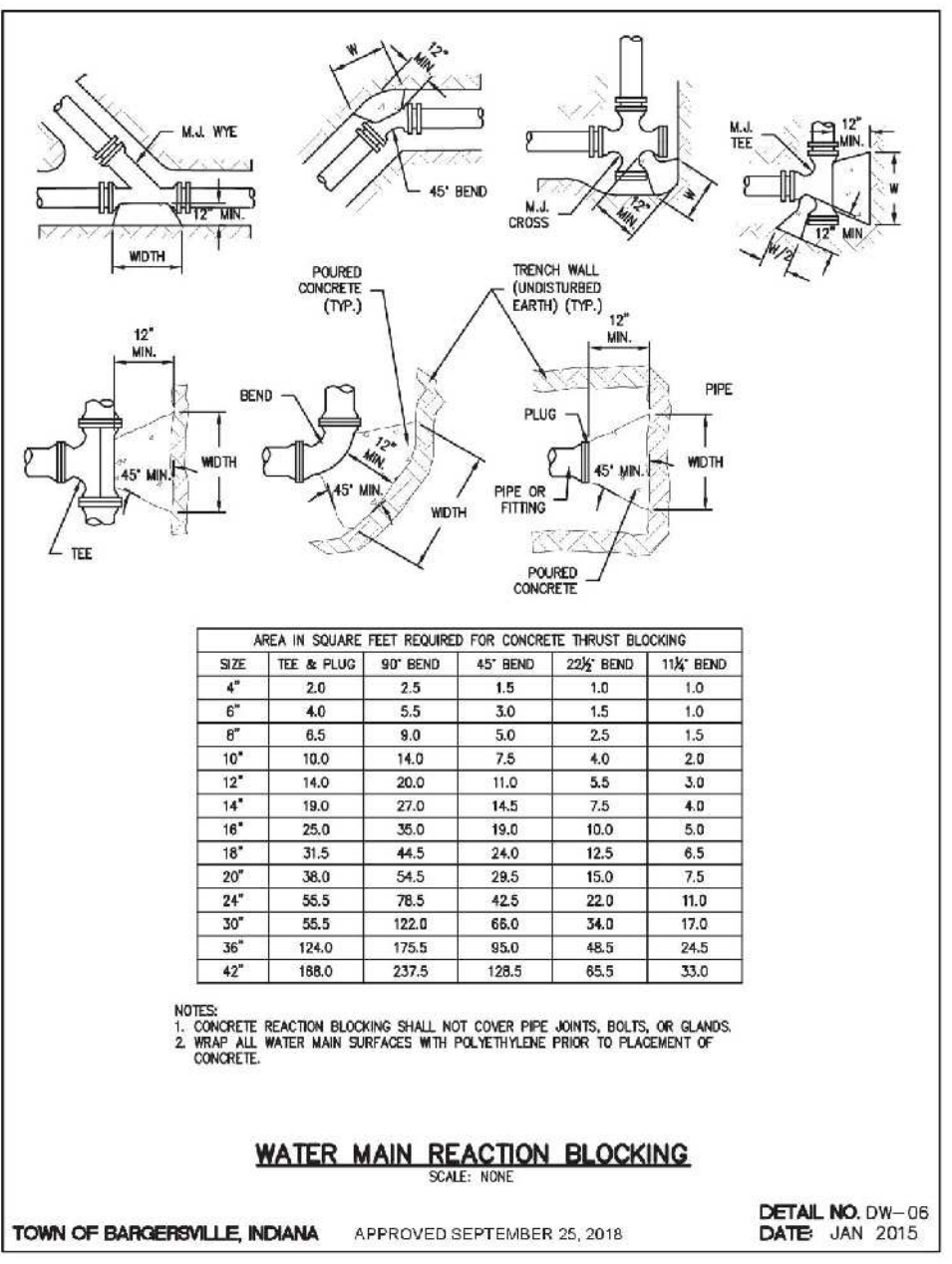
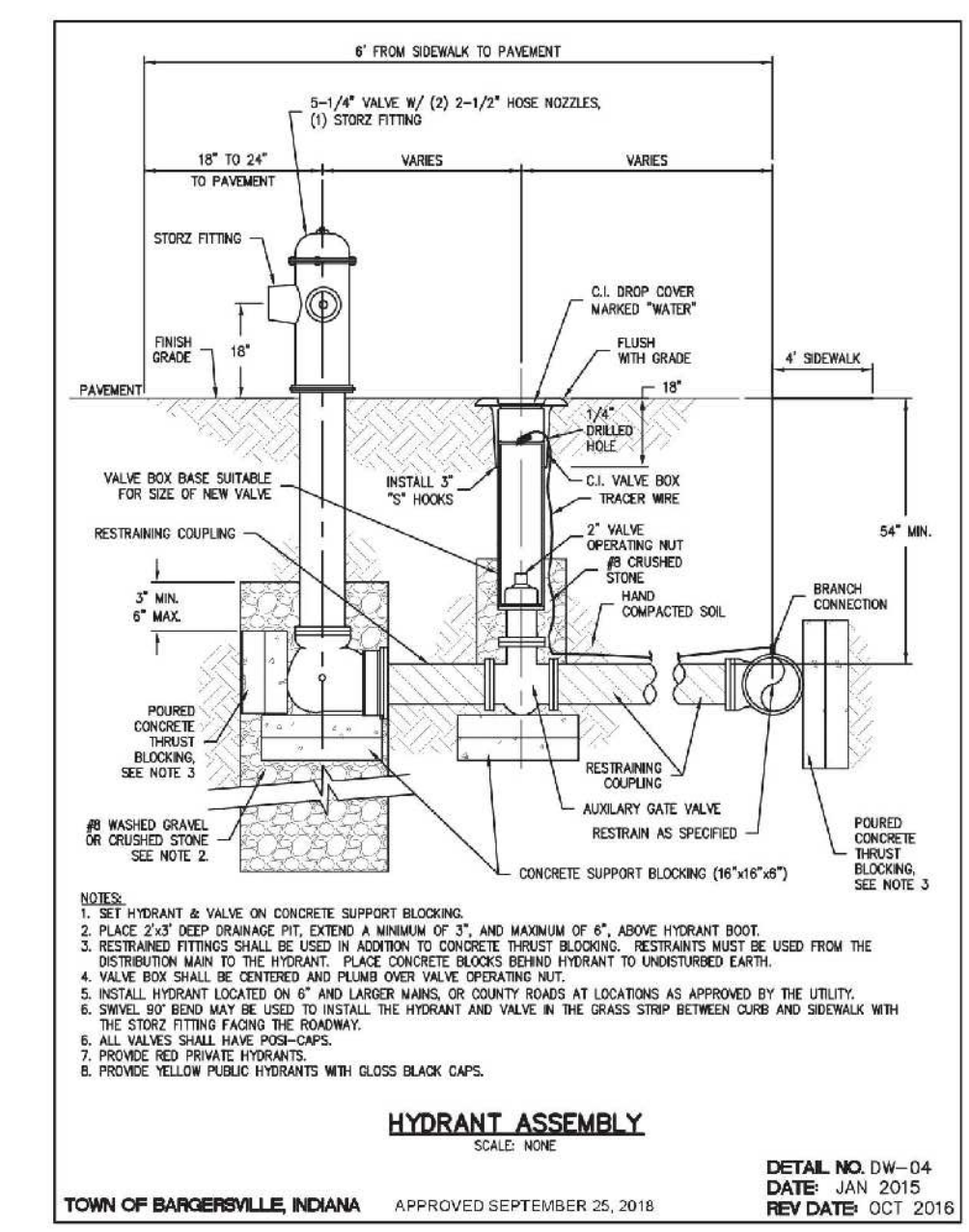
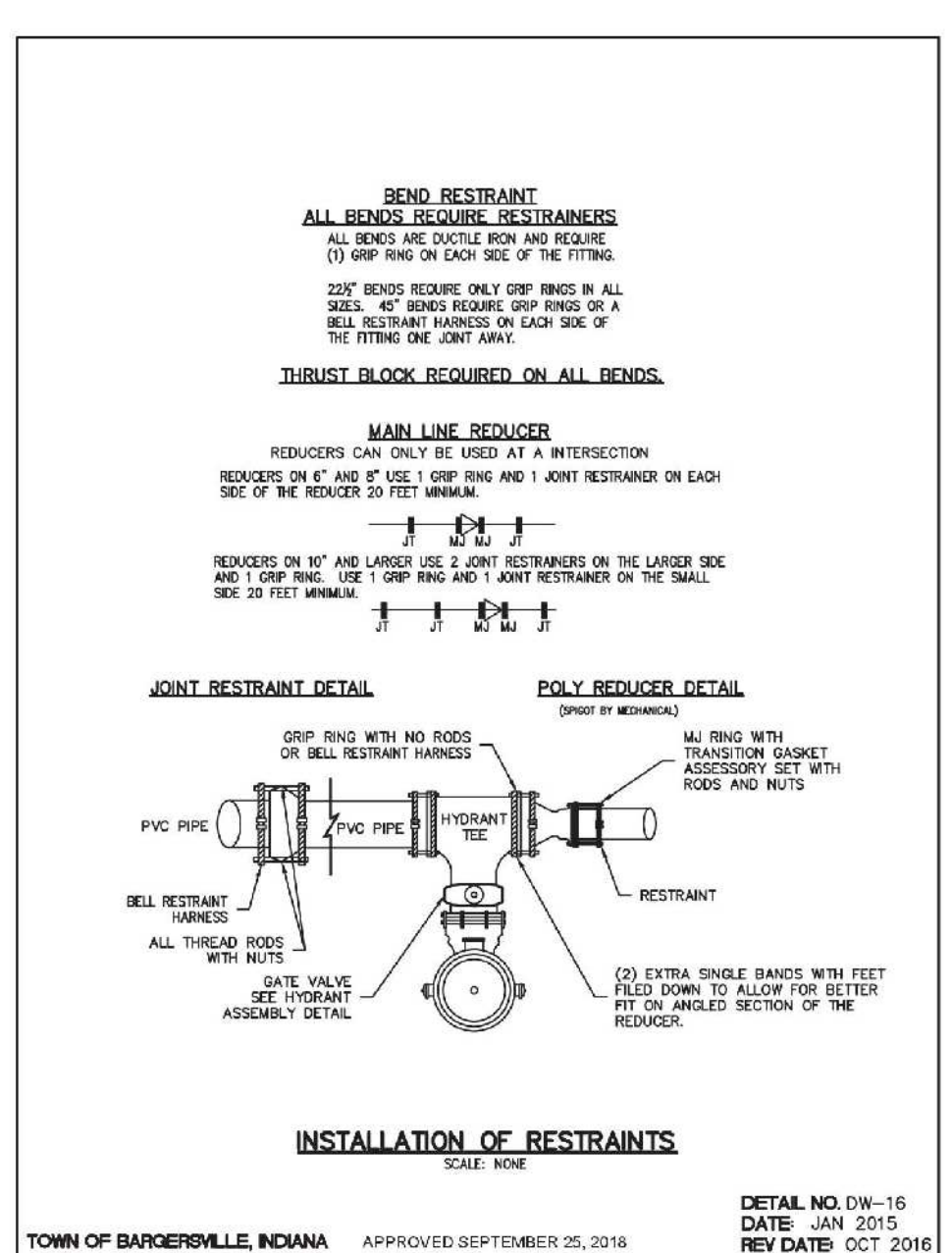
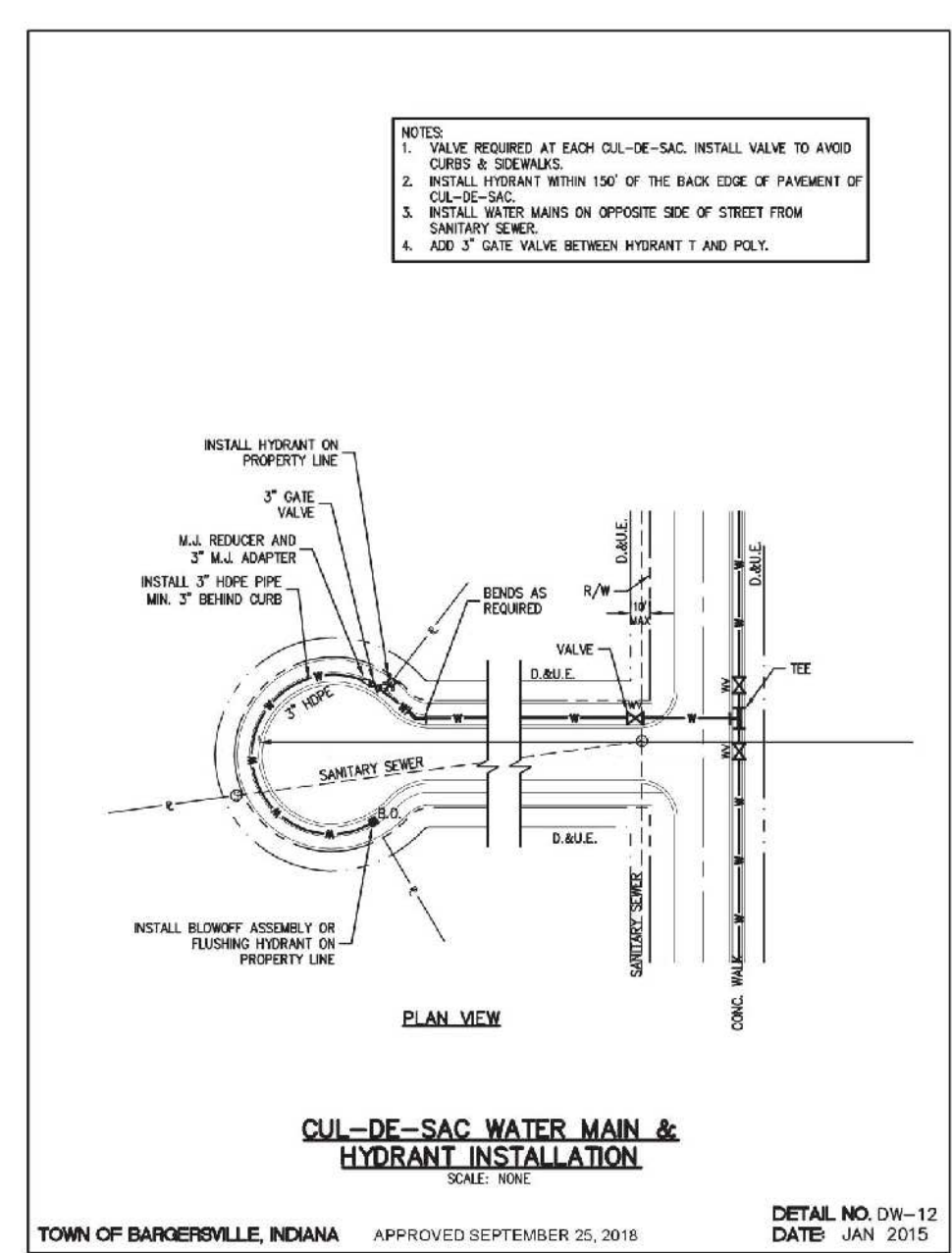
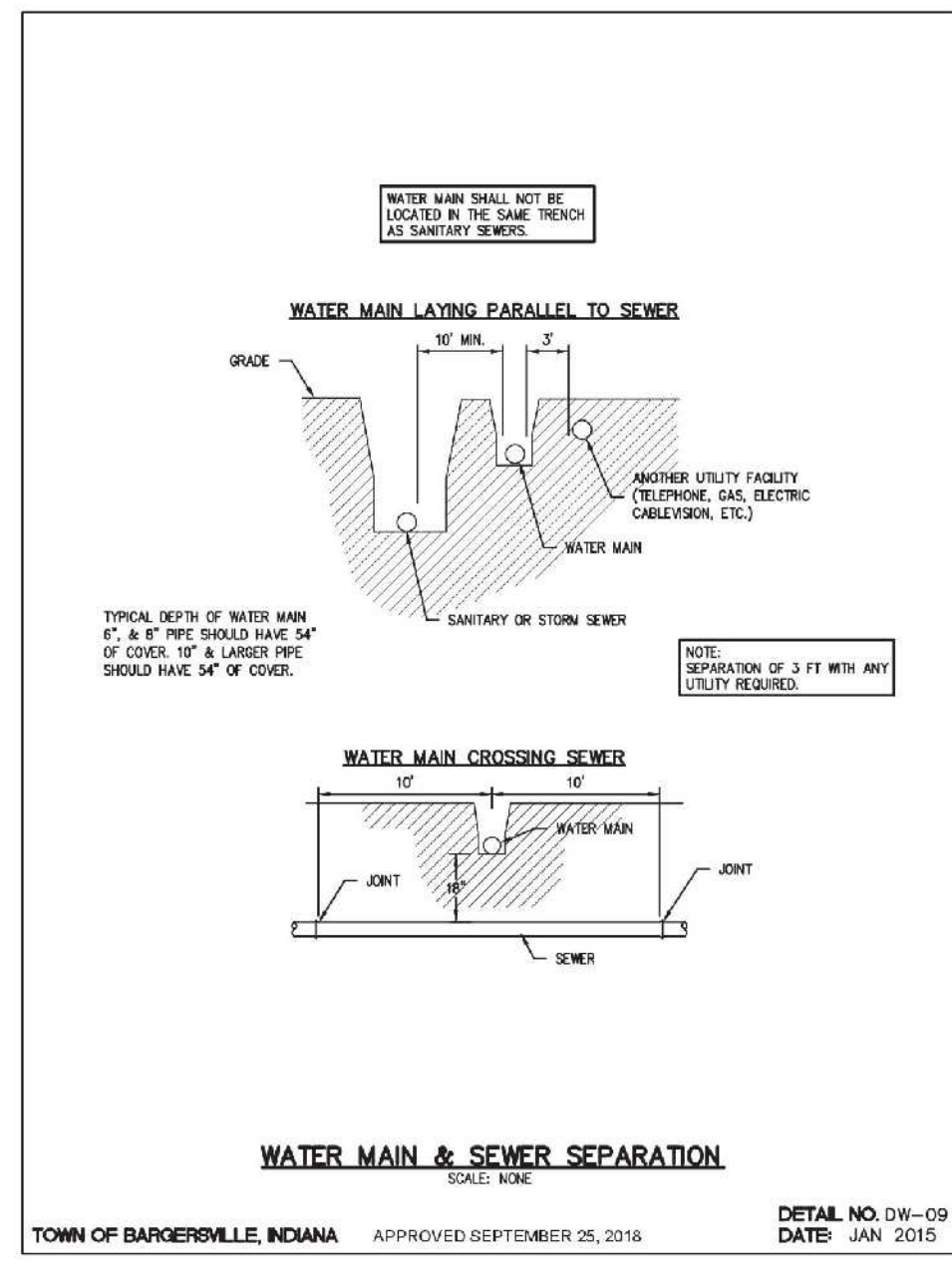
PROJECTS plus

GREENWOOD SURVEYING COMPANY

ENGINEERING, LAND SURVEYING, CIVIL PLANNING, CONSTRUCTION MANAGEMENT
2850 Fairview Place, Suite # - Greenwood, Indiana (317)-882-5003

Jeffrey K. Smith
8/30/22

JOB NUMBER	20019.01
SHEET	C1501
DATE	AUGUST 30, 2022



DATE	REVISION	SYMBOL	SCALE
			NONE
			DRAWN
			CHECKED
			CERTIFIED

PROJECT: BERRY CHASE - SECTION ONE
 WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA
 TITLE: WATER DETAILS

PROJECTS plus
 GREENWOOD SURVEYING COMPANY
 ENGINEERING - LAND SURVEYING
 LAND PLANNING - CONSTRUCTION MANAGEMENT
 2850 Fairview Place Suite # - Greenwood, Indiana
 (317) - 882-5003

SEAL
 JEFFERY K. SUIT
 REGISTERED PROFESSIONAL ENGINEER
 No. 19419
 STATE OF INDIANA
 8/30/22

JOB NUMBER: 20019.01
 SHEET: C1601
 DATE: AUGUST 30, 2022

SITE WORK GENERAL NOTES AND SPECIFICATIONS

GENERAL: WHEREVER A CONFLICT OR DEFICIENCY OCCURS BETWEEN THE CONSTRUCTION STANDARDS AND SPECIFICATIONS ADOPTED BY THE JOHNSON COUNTY PLANNING AND HIGHWAY DEPARTMENTS. THE HIGHER OR MORE RESTRICTIVE STANDARD OR SPECIFICATION SHALL APPLY.

A. NOTICES AND PERMITS
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION...

B. CLEARING AND GRUBBING
1. CLEARING AND GRUBBING SHALL CONSIST OF CUTTING, REMOVAL AND SATISFACTORY DISPOSAL OF ALL TREES, DOWNY TIMBER, BRUSH, PROTECTING ROOTS, STUMPS, RUBBISH, Boulders, BROKEN CONCRETE, FENCING (AS DESIGNATED) AND OTHER MATERIALS WITHIN THE PROJECT SITE...

C. TREE REMOVAL AND PROTECTION
1. TREES SHALL BE REMOVED FROM THE PROJECT SITE ONLY WHERE THE AREA IS TO BE OCCUPIED BY ROAD AND SURFACED AREAS IN ACCORDANCE WITH SPECIFICATIONS OF THE JOHNSON COUNTY PLANNING AND HIGHWAY DEPARTMENTS PLANNING...

D. STRIPPING OF TOPSOIL
1. THE CONTRACTOR SHALL VERIFY THAT ALL TOPSOIL HAS BEEN REMOVED IN THE AREAS TO BE CONSTRUCTED BY ROAD, WALKS AND DESIGNATED BUILDING AREAS. TOPSOIL SHALL BE REMOVED TO A DEPTH OF SIX (6) INCHES OR DEEPER, IF NECESSARY...

E. GRADING
1. THE CONTRACTOR SHALL PERFORM ALL GRADING OPERATIONS TO BRING SUBGRADES, AFTER FINAL COMPACTION, TO THE REQUIRED GRADES AND SECTIONS FOR SITE IMPROVEMENT.

F. STANDARD SANITARY SEWER CONSTRUCTION
1. CURRENT CITIZENS ENERGY GROUP SPECIFICATIONS (CITY OF GREENWOOD SANITATION), COUNTY AND STATE SPECIFICATIONS SHALL PREVAIL AS TO MATERIALS AND METHODS OF CONSTRUCTION...

12. THE CONTRACTOR SHALL PROVIDE PROJECTS PLUS WITH "AS-BUILT" LATERAL LOCATIONS.
13. MANHOLE SECTIONS SHALL HAVE "O" RINGS WHICH SHALL MEET A.S.T.M. C-478.
14. MANHOLE WATERSTOPS SHALL BE INSTALLED AT ALL CONNECTIONS TO MANHOLES, WHERE FLEXIBLE TYPE MANHOLE CONNECTIONS ARE NOT USED.

15. ALL PRECAST MANHOLES SHALL BE BEDDED ON A GRANULAR FOUNDATION.
16. THE CONTRACTOR SHALL REMOVE BY PUMPING OR OTHER SUITABLE METHODS ANY WATER WHICH MAY ACCUMULATE IN TRENCHES.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS FOR LEAKAGE, INFILTRATION AND DEFLECTION AS ESTABLISHED BY THE CITY OF GREENWOOD, I.D.E.U.M. AND THE STATE BOARD OF HEALTH...
20. TRENCH SHALL BE OPENED SUFFICIENTLY AHEAD OF PIPE LAYING TO REVEAL OBSTRUCTIONS...

ALLOWABLE TIME TABLE:

Table with columns: PIPE DIAMETER in., MINIMUM TIME MINUS., LENGTH MINIMUM TIME FT., TIME FOR LONGER LENGTHS, SPECIFICATION TIME FOR LENGTH (L) SHOWN, MIN:S. Rows for 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36 inches.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS FOR LEAKAGE, INFILTRATION AND DEFLECTION AS ESTABLISHED BY THE CITY OF GREENWOOD, I.D.E.U.M. AND THE STATE BOARD OF HEALTH...

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS FOR LEAKAGE, INFILTRATION AND DEFLECTION AS ESTABLISHED BY THE CITY OF GREENWOOD, I.D.E.U.M. AND THE STATE BOARD OF HEALTH...

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS FOR LEAKAGE, INFILTRATION AND DEFLECTION AS ESTABLISHED BY THE CITY OF GREENWOOD, I.D.E.U.M. AND THE STATE BOARD OF HEALTH...

Table for MANHOLE DEPTH (FT.) vs. TIME (SEC). Diameter = 48", Time = 60", 72".

FOR EACH ADDITIONAL 2" ADD: 5 7 8

CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE RESULTS OF EACH MANHOLE VACUUM TEST, SUCH REPORTS SHALL INCLUDE A DESCRIPTION OF THE LOCATION OF THE MANHOLE, THE TIME, DATE AND WEATHER OF THE TEST, A LIST OF ALL PERSONS PRESENT, THE DIAMETER AND DEPTH OF THE MANHOLE AND THE ALLOWABLE TEST RESULTS...

19. PIPE SHALL BE LAID IN OPEN TRENCHES, EXCEPT WHEN CONDITIONS REQUIRE AND THE APPROPRIATE APPROVING AGENCIES GIVE WRITTEN PERMISSION FOR TUNNELING OR JACKING OF PIPE.

20. TRENCH SHALL BE OPENED SUFFICIENTLY AHEAD OF PIPE LAYING TO REVEAL OBSTRUCTIONS AND SHALL BE PROPERLY PROTECTED AND/OR BARRICADED WHEN LEFT UNATTENDED.

21. TRENCHES SHALL BE SHEETED AND BRACED AS NECESSARY TO PROTECT WORKMEN AND ADJACENT STRUCTURES. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH I.O.S.H.A. STANDARDS TO PROTECT WORKMEN.

22. THE FLOW CHANNELS FOR THE SANITARY SEWER MANHOLES SHALL BE U-SHAPED WITH THE BENCHMARKS EXTENDING TO THE CROWN OF THE INCOMING AND OUTGOING PIPES.

23. NUMBER 5/8 STONE BACKFILL SHALL BE REQUIRED UNDER ALL PAVEMENT AREAS AND WITHIN 5' OF THE EDGE OF PAVEMENT.

24. ALL TRENCHES UNDER PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

25. THE MINIMUM CELL CLASSIFICATION FOR P.V.C. SHALL BE 12454B OR C PER A.S.T.M. STANDARDS.

26. ALL GRAVITY AND FORCEMAIN PIPE SHALL BE INSTALLED WITH BELL END OF THE PIPE AT THE UPSTREAM SIDE OF FLOW OR AT THE END IN WHICH THE FIRST RECEIVES THE FLOW.

27. ALL FORCEMAIN SHALL BE HYDROSTATICALLY TESTED. THE FORCEMAIN TEST SECTION SHALL BE SLOWLY FILLED WITH WATER AND PRESSURIZED TO A TEST PRESSURE 50 HIGHER THAN NORMAL OPERATING PRESSURE...

28. THE CITY OF GREENWOOD SHALL BE NOTIFIED IN ADVANCED OF ALL SANITARY SEWER TESTING.

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2. ELECTRIC AND TELEPHONE
a. CONDUIT SHALL BE REQUIRED FOR ALL CROSSINGS UNDER PAVEMENT AREAS.
b. THE CONTRACTOR SHALL COORDINATE PLACEMENT OF THESE CONDUITS WITH THE POWER AND TELEPHONE COMPANIES PRIOR TO THE START OF ALL PERSONS PRESENT...

J. GRANULAR BACKFILL
SHALL BE IN ACCORDANCE WITH CURRENT I.N.D.O.T. STANDARD SPECIFICATIONS, AS REVISED.

K. PAVEMENT CONSTRUCTION
1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND CONFORM TO THE MINIMUM STANDARDS OF THE JOHNSON COUNTY PLANNING AND HIGHWAY DEPARTMENTS...

2. FLEXIBLE PAVEMENT
a. MATERIALS
01. GENERAL: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS.

02. COMPACTED AGGREGATE BASE: SOUND, ANGULAR CRUSHED LIMESTONE, CRUSHED OR UNCRUSHED GRAVEL, COURSE AGGREGATE SHALL BE CLASS A, B, C, OR D AND CONFORM TO INDIANA DEPARTMENT OF TRANSPORTATION (I.N.D.O.T.) STANDARD SPECIFICATION SECTION 903.

03. BASE COURSE AGGREGATE: SOUND, ANGULAR CRUSHED STONE, CRUSHED OR UNCRUSHED GRAVEL, OR CRUSHED SLAG, SAND, STONE, OR SLAG SCREENINGS. COURSE AGGREGATES SHALL BE CLASS A OR B AND CONFORM TO CURRENT I.N.D.O.T. STANDARD SPECIFICATION SECTION 903.

04. COURSE AGGREGATE FOR SURFACE AND BINDER MIXTURES: CRUSHED STONE, CRUSHED GRANEL, CRUSHED SLAB, AND SHARP EDGED NATURAL SAND. SURFACE COURSE AGGREGATES SHALL BE CLASS A AND CONFORM TO CURRENT I.N.D.O.T. STANDARD SPECIFICATIONS, AS REVISED, SECTION 903.

05. ASPHALT CEMENT: PETROLEUM ASPHALT CEMENT, AP 5 WITH PENETRATION OF 60-70 OR VISCOSITY GRADED ASPHALT CEMENT AC-20 CONFORMING TO I.N.D.O.T. STANDARD SPECIFICATION SECTION 903.

06. PRIME COAT: MEDIUM-CURE LIQUID ASPHALT OR ASPHALT EMULSION CONFORMING TO CURRENT I.N.D.O.T. STANDARD SPECIFICATIONS, AS REVISED, SECTION 408.

07. TACK COAT: RAPID-CURE LIQUID ASPHALT OR ASPHALT EMULSION CONFORMING TO I.N.D.O.T. STANDARD SPECIFICATION SECTION 408.

08. LANE MARKING PAINT: CHLORINATED RUBBER-ALYD TYPE, AASHO M248 (FS T1-P-115), TYPE III.
09. SEAL COAT: ASPHALT PAVEMENT SEALER (BLACK) ASTM- D-3200.

b. ASPHALT-AGGREGATE MIXTURE
ALL BITUMINOUS MIXTURES ARE TO CONFORM TO CURRENT I.N.D.O.T. STANDARD SPECIFICATIONS, AS REVISED. CONTRACTOR SHALL PROVIDE A JOB MIX FORMULA PER EACH TYPE OF ASPHALT PAVEMENT TO CONSTRUCTION...

01. SURFACE COURSE: TYPE #11
02. BINDER COURSE: #8
03. BASE COURSE: TYPE #50

c. SURFACE PREPARATION
01. REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE APPLYING PRIME COAT.

02. AGGREGATE BASE: AFTER PLACEMENT, PROOF ROLL COMPACTED AGGREGATE BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTON.

03. TACK COAT: APPLY TO CONTACT SURFACES OF PREVIOUSLY CONSTRUCTED ASPHALT AND ASPHALT AGGREGATE OR PROJECTING INTO POLLUTION PREVENTION PLAN (SWPP) INCLUDED IN THESE CONSTRUCTION PLANS...

04. ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAING.
05. EXERCISE CARE IN APPLYING BITUMINOUS MATERIALS TO AVOID SHEARING OF ADJOINING SURFACES. REMOVE AND CLEAN DAMAGED SURFACES.

d. PAVING THE MIX
01. GENERAL: PLACE BITUMINOUS AGGREGATE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F, (107 DEGREES C). PLACE INACCESSIBLE AND SMALL AREAS BY HAND...

02. SECOND LIFT: SIZE NO. 53.
03. PRIME COAT: SUBBASE SURFACE SHALL BE PRIMED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTION 408 OF I.N.D.O.T. STANDARD SPECIFICATIONS.

04. HOT ASPHALT CONCRETE BINDER COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTHS INDICATED ON DETAILS.

05. TACK COAT: BINDER COURSE SHALL BE TACKED PRIOR TO THE INSTALLATION OF THE SURFACE COURSE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTION 409 OF CURRENT I.N.D.O.T. STANDARD SPECIFICATIONS, AS REVISED.

06. SURFACE COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTH INDICATED ON DETAILS. FINISH ELEVATION SHALL BE TRUE TO LINE AND GRADE WITHIN 1/2" OF TRUE ELEVATION.

07. PAVEMENT FINISH: PAVING STRIPS NOT LESS THAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT/ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTEND ROLLING TO OVERLAP PREVIOUS STRIPS...

Table with columns: DATE, REVISION, SYMBOL, SCALE, NONE, DRAWING, JPH, CHECKED, JPH, CERTIFIED, JKS

BERRY CHASE - SECTION ONE WHITE RIVER TOWNSHIP - JOHNSON COUNTY, INDIANA SPECIFICATIONS

PROJECT TITLE

PROJECTS plus GREENWOOD SURVEYING COMPANY logo and address: 2650 Fairview Place Suite 100 Greenwood, Indiana (317) 882-5003

CIVIL ENGINEERING, LAND PLANNING, CONSTRUCTION MANAGEMENT, 2650 Fairview Place Suite 100 Greenwood, Indiana (317) 882-5003

GREENWOOD SURVEYING COMPANY logo and address: 2650 Fairview Place Suite 100 Greenwood, Indiana (317) 882-5003

Professional Engineer Seal: Jeffery K. Smith, No. 19419, State of Indiana, Registered Professional Engineer

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JOB NUMBER 20019.01 SHEET

C1701

DATE AUGUST 30, 2022