ADDENDUM NO. 04

Date: 06.26.2024

Project:
Westfield Washington School Corporation
Westfield Middle School West (Site Package)
17707 Centennial Road,
Westfield, IN. 46074

Owner:
C/O Westfield Washington School Corporation
19500 Tomlinson Road
Westfield, IN 46074

BUILDING A **BETTER** FUTURE

Construction Manager:
Hagerman, Inc
10315 Allisonville Road
Fishers, IN 46038

TO: All Interested Bidders of Record

This Addendum #04, Dated 06.26.2024, forms part of the contract documents and modifies the original Bidding Documents dated 05.20.2024. Please acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to acknowledge this Addendum may subject the Bidder to disqualification.

The Hagerman, Inc portion of this Addendum consists of the following information:

I. GENERAL INFORMATION

1. CSO, Context, and A-F Engineering Addendum #04 Dated 06.26.2024.

II. CHANGES TO THE PROJECT CONTRACT MANUAL

1. All Bidders shall review the updated Section 00 01 15 List of Drawings.

2. This Addendum includes added, updated, and revised “C”, Civil Drawings: C257, C302, C405, C500, C501, C502, C503, C504, C701, C704, C705, C706, C707, C708, C901, C907.

3. All contractors shall review the attached CSO, Context, A-F Engineering Addendum #04 Dated 06.26.2024 and incorporate the changes made to the drawings and specifications into the respective bid item scope of bid.

III. DESIGN INFORMATION

1. CSO, Context, and A-F Engineering Addendum #04 Dated 06.26.2024.

END OF SECTION

ADDENDUM

ARCHITECTURE · INTERIOR DESIGN

BRENTON C. HITE REGISTERED No. AR11700184 STATE OF INDIANA ARCHITECT

ADDENDUM NO: 04

PROJECT: Westfield Middle School – West (Site Package)

PROJECT NO: 2023061 DATE: June 26, 2024 BY: Brent Hite

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages: **1-4**

Attached Documents: **N/A**

Attached Drawing Sheets: **C257, C302, C405, C500, C501, C502, C503, C504, C701, C704, C705, C706, C707, C708, C901, C907**

PART 0 - GENERAL INFORMATION

0.1 NOT USED

PART 1 - BIDDING REQUIREMENTS

1.1 NOT USED

PART 2 - SPECIFICATIONS

2.1 NOT USED

PART 3 - DRAWINGS

CIVIL

3.1 C257 – PLAN "PR-B" STA. 00+00 TO STA. 05+00

A. Added Swale

3.2 C302 – GRADING PLAN

A. New Str. 733

B. Added Swale

8831 Keystone Crossing, Indianapolis, IN 46240 | 317.848.7800 | csoinc.net

3.3 C405 – SWPPP PLAN (FINAL)

A. Deleted Rock Check Dams

3.4 C500 – STRUCTURE DATA TABLE

A. Updated Structure Data Table as clouded.

3.5 C501 – UTILITY PLAN

A. Added 6” and 10” Roof Drains to go into Str. 821

B. Added 6” and 8” Roof Drains to go into Str. 828

C. Added 8” Roof Drain to go into Str. 830

D. Added 6” Roof Drain to go into Str. 834

E. Added 10” Roof Drain to go into Str. 833

F. W11 call out changed from 1” to 2”

G. Swale Length and Slope going into Str. 817

H. Added 8” Roof Drain to Str. 811.

3.6 C502 – UTILITY PLAN

A. Added new pipe Run Str. 733 to 739

B. Added Roof Drain Pipe Sleeves (6” & 10”) into Str. 733

C. Added 6” Sanitary laterals from the building

D. Added Elevations for Sanitary Lateral

E. New 8” Roof drain going into Structure 784.

F. Gas service line added.

G. Water Service lines shifted.

H. New 10” Roof drain into Structure 778.

3.7 C503 – UTILITY PLAN

A. Last 25’ turned into W12 call out.

B. Extended 2” water service line from the school to the south storage building. This 2” will be used for future irrigation package.

3.8 C504 – UTILITY PLAN

A. New 10” Roof drain into Structure 778.

B. Water service lines keynotes have been updated.

C. Telecom keynotes have been updated.

3.9 C701 – STORM PLAN & PROFILE

A. New Pipe run. Str. 733 to Str. 739

3.10 C704 – STORM PLAN & PROFILE

A. Added 6” Sanitary Lateral Crossing between Str. 777 – 778 & 726-727

B. Water connection service crossing lines shifted

C. New 10” Roof drain into Structure 778.

3.11 C705 – STORM PLAN & PROFILE

A. Added 6” Sanitary Lateral Crossing between Str. 784—785

B. Added 8” HDPE Roof Drain to go into Str. 784

3.12 C706 – STORM PLAN & PROFILE

A. Added 10” HDPE Roof Drain to go into Str 821

3.13 C707 – STORM PLAN & PROFILE

A. Added 8” HDPE Roof Drain to go into Str. 830

B. Added 8” HDPE Roof Drain to go into Str 828 (North)

C. Added 6” HDPE Roof Drain to go into Str 828 (West)

D. Added 8” HDPE Roof Drain to go into Str 811

3.14 C708 – STORM PLAN & PROFILE

A. Str. Run from 834 – 832 now has different pipe lengths

B. Added roof drain connections to Structures 833 & 834

3.15 C901 – SITE DETAILS

A. Added Box Culvert Detail, 12.

B. Detail numbers 12 changed to 13 and detail 13 changed to detail 14

3.16 C907 – SITE DETAILS

A. Updated FDC detail.

PART 4 - QUESTIONS AND ANSWERS

4.1 NOT USED

END ADDENDUM #04

SECTION 00 01 15
LIST OF DRAWINGS

DRAWINGS			
No.	Drawing Title	Drawing Date	Addendum
1OF12	TOPOGRAPHIC SURVEY 1 OF 12	8/18/2023	
2OF12	TOPOGRAPHIC SURVEY 2 OF 12	8/18/2023	
3OF12	TOPOGRAPHIC SURVEY 3 OF 12	8/18/2023	
4OF12	TOPOGRAPHIC SURVEY 4 OF 12	8/18/2023	
5OF12	TOPOGRAPHIC SURVEY 5 OF 12	8/18/2023	
6OF12	TOPOGRAPHIC SURVEY 6 OF 12	8/18/2023	
7OF12	TOPOGRAPHIC SURVEY 7 OF 12	8/18/2023	
8OF12	TOPOGRAPHIC SURVEY 8 OF 12	8/18/2023	
9OF12	TOPOGRAPHIC SURVEY 9 OF 12	8/18/2023	
10OF12	TOPOGRAPHIC SURVEY 10 OF 12	8/18/2023	
11OF12	TOPOGRAPHIC SURVEY 11 OF 12	8/18/2023	
12OF12	TOPOGRAPHIC SURVEY 12 OF 12	8/18/2023	
C100	COVER SHEET	6/24/2024	Addendum 03
C101	EXISTING CONDITIONS & DEMOLITION PLAN	6/17/2024	Addendum 02
C102	EXISTING CONDITIONS & DEMOLITION PLAN	6/17/2024	Addendum 02
C250	Index and Typ	6/24/2024	Addendum 03
C251	PLAN "PR-A" STA. 00+00 TO STA. 5+80	6/24/2024	Addendum 03
C252	PROFILE "PR-A" STA. 00+00 TO STA. 05+80	6/17/2024	Addendum 02
C253	PROFILE "PR-A" STA. 05+50 TO STA. 11+00	6/24/2024	Addendum 03
C254	PROFILE "PR-A" STA. 05+50 TO STA. 11+00	6/17/2024	Addendum 02
C255	PROFILE "PR-A" STA. 11+00 TO STA. 15+39	6/24/2024	Addendum 03
C256	PROFILE "PR-A" STA. 11+00 TO STA. 15+39	6/17/2024	Addendum 02
C257	PROFILE "PR-B" STA. 00+00 TO STA. 05+50	6/26/2024	Addendum 04
C258	PROFILE "PR-B" STA. 00+00 TO STA. 5+50	6/17/2024	Addendum 02
C259	PROFILE "PR-B" STA. 05+00 TO STA. 07+91	6/17/2024	Addendum 02
C260	PROFILE "PR-B" STA. 5+50 TO STA. 7+91	6/17/2024	Addendum 02
C261	PROFILE "PR-C" STA. 00+00 TO STA. 06+00	6/24/2024	Addendum 03
C262	PROFILE "PR-C" STA. 00+00 TO STA. 06+00	6/17/2024	Addendum 02
C263	PROFILE "PR-C" STA. 06+00 TO STA. 12+00	6/24/2024	Addendum 03
C264	PROFILE "PR-C" STA. 06+00 TO STA. 12+00	6/17/2024	Addendum 02
C265	PROFILE "PR-C" STA. 12+00 TO STA. 17+00	6/24/2024	Addendum 03
C266	PROFILE "PR-C" STA. 12+00 TO STA. 18+00	6/17/2024	Addendum 02
C267	PROFILE "PR-C" STA. 17+00 TO STA. 23+00	6/17/2024	Addendum 02
C268	PROFILE "PR-C" STA. 18+00 TO STA. 24+00	6/17/2024	Addendum 02
C269	PROFILE "PR-C" STA. 23+00 TO STA. 29+79	6/17/2024	Addendum 02

SECTION 00 01 15
LIST OF DRAWINGS

C270	PROFILE "PR-C" STA. 24+00 TO STA. 29+52	6/17/2024	Addendum 02
C300	OVERALL GRADING PLAN	6/17/2024	Addendum 02
C301	GRADING PLAN	6/24/2024	Addendum 03
C302	GRADING PLAN	6/26/2024	Addendum 04
C303	GRADING PLAN	6/24/2024	Addendum 03
C304	GRADING PLAN	6/17/2024	Addendum 02
C305	GRADING PLAN	6/24/2024	Addendum 03
C306	GRADING PLAN	6/17/2024	Addendum 02
C307	GRADING PLAN	6/24/2024	Addendum 03
C401	SWPPP PLAN (INITIAL)	6/17/2024	Addendum 02
C402	SWPPP PLAN (INITIAL)	6/17/2024	Addendum 02
C403	SWPPP PLAN (CONST.)	6/17/2024	Addendum 02
C404	SWPPP PLAN (CONST.)	6/17/2024	Addendum 02
C405	SWPPP PLAN (FINAL)	6/26/2024	Addendum 04
C406	SWPPP PLAN (FINAL)	6/17/2024	Addendum 02
C407	SWPPP PLAN (DETAILS)	6/17/2024	Addendum 02
C408	SWPPP PLAN (DETAILS)	6/17/2024	Addendum 02
C409	SWPPP PLAN (INFORMATION)	6/24/2024	Addendum 03
C410	SWPPP PLAN (INFORMATION)	6/17/2024	Addendum 02
C500	STRUCTURE DATA TABLE	6/26/2024	Addendum 04
C501	UTILITY PLAN	6/26/2024	Addendum 04
C502	UTILITY PLAN	6/26/2024	Addendum 04
C503	UTILITY PLAN	6/26/2024	Addendum 04
C504	UTILITY PLAN	6/24/2024	Addendum 03
C505	UTILITY PLAN	6/17/2024	Addendum 02
C601	SANITARY PLAN & PROFILE	6/24/2024	Addendum 03
C700	OVERALL UTILITY PLAN	6/24/2024	Addendum 03
C701	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C702	STORM PLAN & PROFILE	6/17/2024	Addendum 02
C703	STORM PLAN & PROFILE	6/17/2024	Addendum 02
C704	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C705	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C706	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C707	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C708	STORM PLAN & PROFILE	6/26/2024	Addendum 04
C709	STORM PLAN & PROFILE	6/24/2024	Addendum 03
C710	STORM PLAN & PROFILE	6/17/2024	Addendum 02

SECTION 00 01 15
LIST OF DRAWINGS

C711	STORM PLAN & PROFILE	6/17/2024	Addendum 02
C712	STORM PLAN & PROFILE	6/17/2024	Addendum 02
C713	STORM PLAN AND PROFILE	06/24/2024	Addendum 03
C901	SITE DETAILS	6/26/2024	Addendum 04
C902	SITE DETAILS	6/17/2024	Addendum 02
C903	SITE DETAILS	6/24/2024	Addendum 03
C904	SITE DETAILS	6/17/2024	Addendum 02
C905	SITE DETAILS	6/17/2024	Addendum 02
C906	SITE DETAILS	6/17/2024	Addendum 02
C907	SITE DETAILS	6/26/2024	Addendum 04
L010	TREE PRESERVATION PLAN	5/20/2024	
L100	REFERENCE PLAN	6/7/2024	Addendum 01
L101	MATERIALS & NOTES	6/7/2024	Addendum 01
L102	MATERIALS & NOTES	6/7/2024	Addendum 01
L103	MATERIALS & NOTES	6/7/2024	Addendum 01
L104	MATERIALS & NOTES	6/7/2024	Addendum 01
L105	MATERIALS & NOTES	6/7/2024	Addendum 01
L106	MATERIALS & NOTES	6/7/2024	Addendum 01
L107	MATERIALS & NOTES	6/7/2024	Addendum 01
L108	MATERIALS & NOTES	6/7/2024	Addendum 01
L301	ENLARGED ATHLETIC PLANS	6/7/2024	Addendum 01
L302	ENLARGED ATHLETIC PLANS	5/20/2024	
L303	ENLARGED ATHLETIC PLANS	6/7/2024	Addendum 01
L500	SITE DETAILS	6/7/2024	Addendum 01
L501	SITE DETAILS	5/20/2024	
L502	SITE DETAILS	6/17/2024	Addendum 02
L510	ATHLETIC DETAILS	6/24/2024	Addendum 03
L511	ATHLETIC DETAILS	5/20/2024	
L512	ATHLETIC DETIALS	6/17/2024	Addendum 02
L513	ATHLETIC DETAILS	6/24/2024	Addendum 03
S001	GENERAL STRUCTURAL NOTES	5/20/2024	
S002	GENERAL STRUCTURAL NOTES & SCHEDULES	5/20/2024	
S201A	FOUNDATION PLAN – UNIT A	5/20/2024	
S201B	FOUNDATION PLAN – UNIT B	5/20/2024	
S201C	FOUNDATION PLAN – UNIT C	5/20/2024	
S201D	FOUNDATION PLAN – UNIT D	5/20/2024	
S201E	FOUNDATION PLAN – UNIT E	5/20/2024	

SECTION 00 01 15
LIST OF DRAWINGS

S201F	FOUNDATION PLAN – UNIT F	5/20/2024	
S201G	FOUNDATION PLAN – UNIT G	5/20/2024	
S201H	FOUNDATION PLAN – UNIT H	5/20/2024	
S401	TYPICAL DETAILS	5/20/2024	
2023061	ARCHITECTURAL COVER SHEET	5/20/2024	
A100	SHEET INDEX	5/20/2024	
A101	OVERALL GROUND FLOOR PLAN	5/20/2024	
A102	OVERALL SECOND FLOOR PLAN	5/20/2024	
A120	COMPOSITE ROOF PLAN	5/20/2024	
A201A	PARTIAL GROUND FLOOR PLAN – UNIT A	5/20/2024	
A201B	PARTIAL GROUND FLOOR PLAN – UNIT B	5/20/2024	
A201C	PARTIAL GROUND FLOOR PLAN – UNIT C		
A201D	PARTIAL GROUND FLOOR PLAN – UNIT D	5/20/2024	
A201E	PARTIAL GROUND FLOOR PLAN – UNIT E	5/20/2024	
A201F	PARTIAL GROUND FLOOR PLAN – UNIT F	5/20/2024	
A201G	PARTIAL GROUND FLOOR PLAN – UNIT G	5/20/2024	
A201H	PARTIAL GROUND FLOOR PLAN – UNIT H	5/20/2024	
A202A	PARTIAL SECOND FLOOR PLAN – UNIT A	5/20/2024	
A202B	PARTIAL SECOND FLOOR PLAN – UNIT B	5/20/2024	
A202C	PARTIAL SECOND FLOOR PLAN – UNIT C	5/20/2024	
A202D	PARTIAL SECOND FLOOR PLAN – UNIT D	5/20/2024	
A202E	PARTIAL SECOND FLOOR PLAN – UNIT E	5/20/2024	
A202F	PARTIAL SECOND FLOOR PLAN – UNIT F	5/20/2024	
A202G	PARTIAL SECOND FLOOR PLAN – UNIT G	5/20/2024	
A202H	PARTIAL SECOND FLOOR PLAN – UNIT H	5/20/2024	
A203B	MEZZAINE LEVEL – UNIT B	5/20/2024	
A203C	MEZZAINE LEVEL – UNIT C	5/20/2024	
A320	OVERALL AXONOMETRIC VIEWS	5/20/2024	
A321	OVERALL AXONOMETRIC VIEWS	5/20/2024	
A330	STORAGE BUILDING PLANS AND ELEVATIONS	5/20/2024	
A340	OVERALL COLORED BUILDING ELEVATIONS	5/20/2024	
A341	OVERALL BUILDING ELEVATIONS	5/20/2024	
FP201	OVERALL GROUND FLOOR PLAN – FIRE PROTECTION	5/20/2024	
FP202	OVERALL SECOND FLOOR PLAN – FIRE PROTECTION	5/20/2024	
P101A	UNDERSLAB PLAN - UNIT A - PLUMBING	5/20/2024	
P101B	UNDERSLAB PLAN - UNIT B - PLUMBING	5/20/2024	
P101C	UNDERSLAB PLAN - UNIT C - PLUMBING	5/20/2024	

SECTION 00 01 15
LIST OF DRAWINGS

P101D	UNDERSLAB PLAN - UNIT D - PLUMBING	5/20/2024	
P101E	UNDERSLAB PLAN - UNIT E - PLUMBING	5/20/2024	
P101F	UNDERSLAB PLAN - UNIT F - PLUMBING	5/20/2024	
P101G	UNDERSLAB PLAN - UNIT G - PLUMBING	5/20/2024	
P101H	UNDERSLAB PLAN – UNIT H - PLUMBING	5/20/2024	
P301	ENLARGED MECHANICAL ROOM - PLUMBING	5/20/2024	
M100	PARTIAL SITE PLAN – WELL FIELD- MECHANICAL	5/20/2024	
M201F	GROUND FLOOR PLAN – UNIT F – AIR DISTRIBUTION	5/20/2024	
M301	ENLARGED PLANS - MECHANICAL	5/20/2024	
E100	SITE PLAN - ELECTRICAL	5/20/2024	
E211F	GROUND FLOOR PLAN – UNIT F – POWER	5/20/2024	
T001	TELECOM SITE PLAN	5/20/2024	
T002	SECURITY SITE PLAN	5/20/2024	
T101	GROUND FLOOR OVERALL DISTRIBUTION PLAN	5/20/2024	

END OF SECTION

LEGEND

	INDOT DRIVEWAY APPROACH. SEE DETAIL 610-DRIVE-04 ON SHEET C905
	EXISTING CENTENNIAL ROAD HARD SCAPE

GRADING PLAN LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
772.40ME	MATCH EXISTING		SWALE
772.40	PAVEMENT SPOT GRADE		POND BOTTOM
772.40	LAWN SPOT GRADE		POND CONTOUR
772.40	FLOW LINE SPOT GRADE		POND NORMAL POOL
772.40	TOP OF WALL SPOT GRADE	F.F.E.	FINISHED FLOOR ELEVATION
772.00	BOTTOM OF WALL SPOT GRADE	HP	HIGH POINT
771.20 / 770.70	TOP OF CURB AND BOTTOM OF CURB	LP	LOW POINT
1.00%	FLOW DIRECTION w/GRADE	801	INTERMEDIATE CONTOUR
3:1	H:V RATIO GRADE	800	INDEX CONTOUR
INV.=800.50	PIPE INVERT ELEVATION		GRADE BREAK
FR	FLOOD ROUTE		EXISTING INTERMEDIATE CONTOUR
			EXISTING INDEX CONTOUR
			S.S.D.

GRADING NOTES

1. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE PAVING AND FROM WITHIN THE LIMITS OF PROPOSED BUILDINGS AND STRUCTURES. TOPSOIL SHALL BE STRIPPED TO THE DEPTH SHOWN IN THE GEOTECHNICAL REPORT, OR TO A DEPTH OF 6 INCHES, WHICHEVER IS GREATER.
2. TOPSOILSHALL BE PLACED TO A DEPTH OF 4 TO 6 INCHES IN ALL AREAS TO BE SEEDED OR SODDED PER THE SPECIFICATIONS.
3. EXCESS TOPSOIL MAY BE PLACED IN MOUNDING AREAS AND NONSTRUCTURAL FILL AREAS AS AVAILABLE.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED OR SODDED UNLESS OTHERWISE SHOWN.
5. FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS UNLESS OTHERWISE SHOWN.
6. THE CONTRACTOR SHALL PERFORM AN EARTHWORK QUANTITY ANALYSIS PRIOR TO COMMENCING CONSTRUCTION TO CONFIRM SUCH QUANTITIES WITH THE ENGINEER. ADJUSTMENTS TO PROPOSED FINISH GRADES BASED UPON THE EARTHWORK QUANTITY ANALYSIS SHALL BE APPROVED BY THE ENGINEER.

0 20' 40'
SCALE: 1" = 20'

811 Know what's below. Call before you dig.

APPROVAL PENDING NOT FOR CONSTRUCTION

Z:\2023\23093L-CONTEXT, NEW WESTFIELD MIDDLE SCHOOL-WEST\DWGS\ROAD PLANS\DWG\23093L-PLAN.DWG plotted by STEVEN O'ROURKE on 6/26/2024 4:16:25 PM last saved by SOROURKE on 6/21/2024 3:08:21 PM

W

CSO
Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #4	06/26/2024

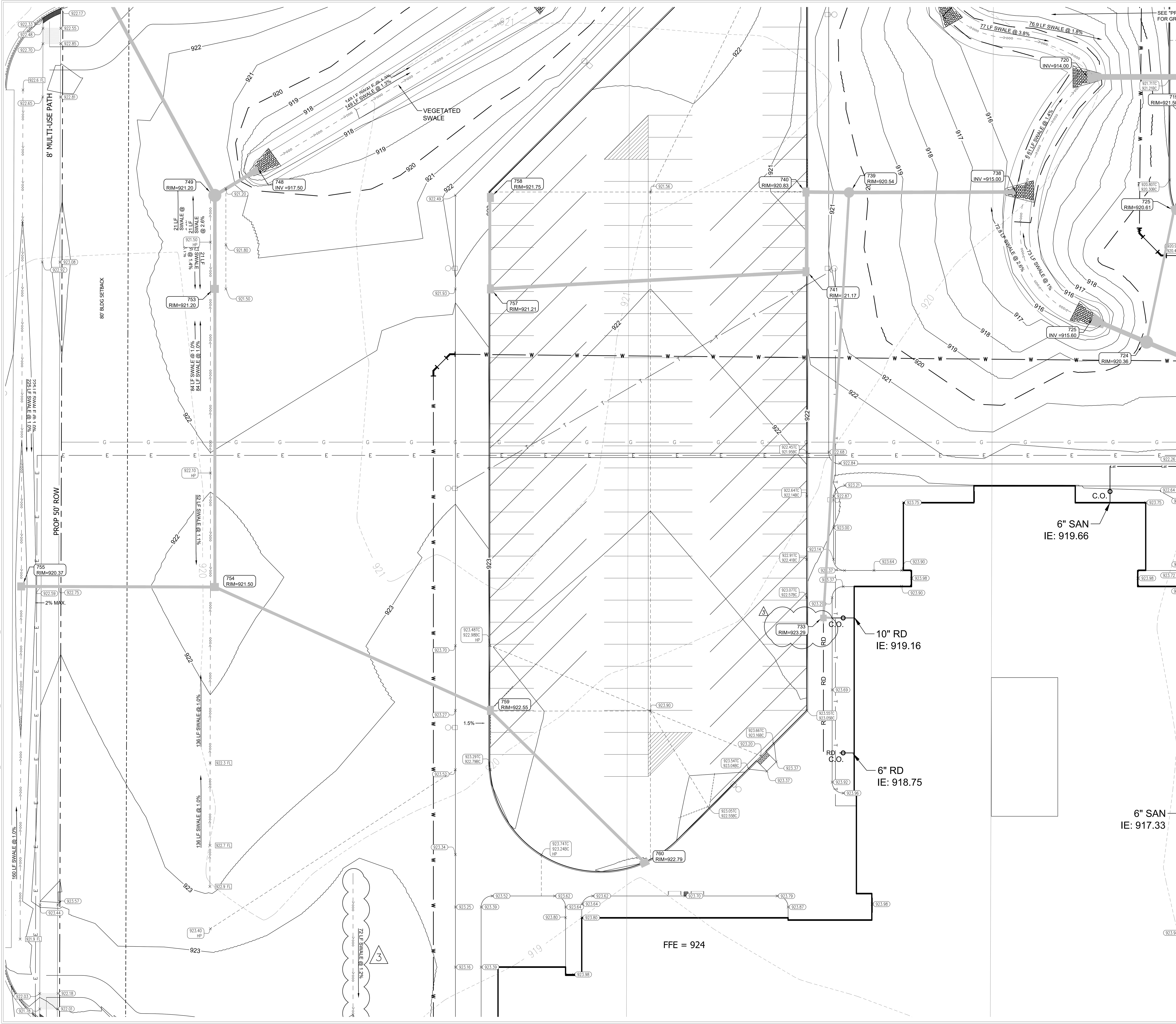
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

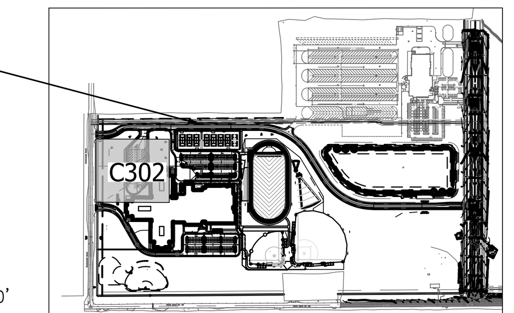
DRAWING TITLE:
PLAN
"PR-B"
STA. 00+00
TO
STA. 05+00

CERTIFIED BY:
KAREN K. COLLINS
REGISTERED
No. 10404538
STATE OF INDIANA
PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C257

PROJECT NUMBER
2023061





KEYMAP

SCALE: 1" = 20'

SEE "PR-C" PLAN SHEETS FOR GRADING IN THIS AREA.

GRADING NOTES

1. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE PAVING AND FROM WITHIN THE LIMITS OF PROPOSED BUILDINGS AND STRUCTURES. TOPSOIL SHALL BE STRIPPED TO THE DEPTH SHOWN IN THE GEOTECHNICAL REPORT, OR TO A DEPTH OF 6 INCHES, WHICHEVER IS GREATER.
2. TOPSOILSHALL BE PLACED TO A DEPTH OF 4 TO 6 INCHES IN ALL AREAS TO BE SEEDED OR SODDED PER THE SPECIFICATIONS.
3. EXCESS TOPSOIL MAY BE PLACED IN MOUNDING AREAS AND NONSTRUCTURAL FILL AREAS AS AVAILABLE.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED OR SODDED UNLESS OTHERWISE SHOWN.
5. FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS UNLESS OTHERWISE SHOWN.
6. THE CONTRACTOR SHALL PERFORM AN EARTHWORK QUANTITY ANALYSIS PRIOR TO COMMENCING CONSTRUCTION TO CONFIRM SUCH QUANTITIES WITH THE ENGINEER. ADJUSTMENTS TO PROPOSED FINISH GRADES BASED UPON THE EARTHWORK QUANTITY ANALYSIS SHALL BE APPROVED BY THE ENGINEER.

GRADING PLAN LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
772.40 ME	MATCH EXISTING		SWALE
772.40	PAVEMENT SPOT GRADE		POND BOTTOM
772.40 LA	LAWN SPOT GRADE		POND CONTOUR
HP 772.40	GROUND SPOT GRADE HIGH POINT		POND NORMAL POOL
772.40 FL	FLOW LINE SPOT GRADE	F.F.E.	FINISHED FLOOR ELEVATION
772.40 TW	TOP OF WALL SPOT GRADE	HP	HIGH POINT
772.00 BW	BOTTOM OF WALL SPOT GRADE	LP	LOW POINT
771.20 T.C. 770.70 B.C.	TOP OF CURB AND BOTTOM OF CURB	801	INTERMEDIATE CONTOUR
HP 771.20 T.C. 770.70 B.C.	TOP OF CURB AND BOTTOM OF CURB HIGH POINT	800	INDEX CONTOUR
771.20 T.C. ME 770.70 B.C. ME	TOP OF CURB AND BOTTOM OF CURB MATCH EXISTING		EXISTING INTERMEDIATE CONTOUR
1.00%	FLOW DIRECTION w/GRADE		EXISTING INDEX CONTOUR
3:1	H:V RATIO GRADE		BREAKLINES
INV.=800.50	PIPE INVERT ELEVATION		
FR	FLOOD ROUTE		

811 Know what's below. Call before you dig.

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

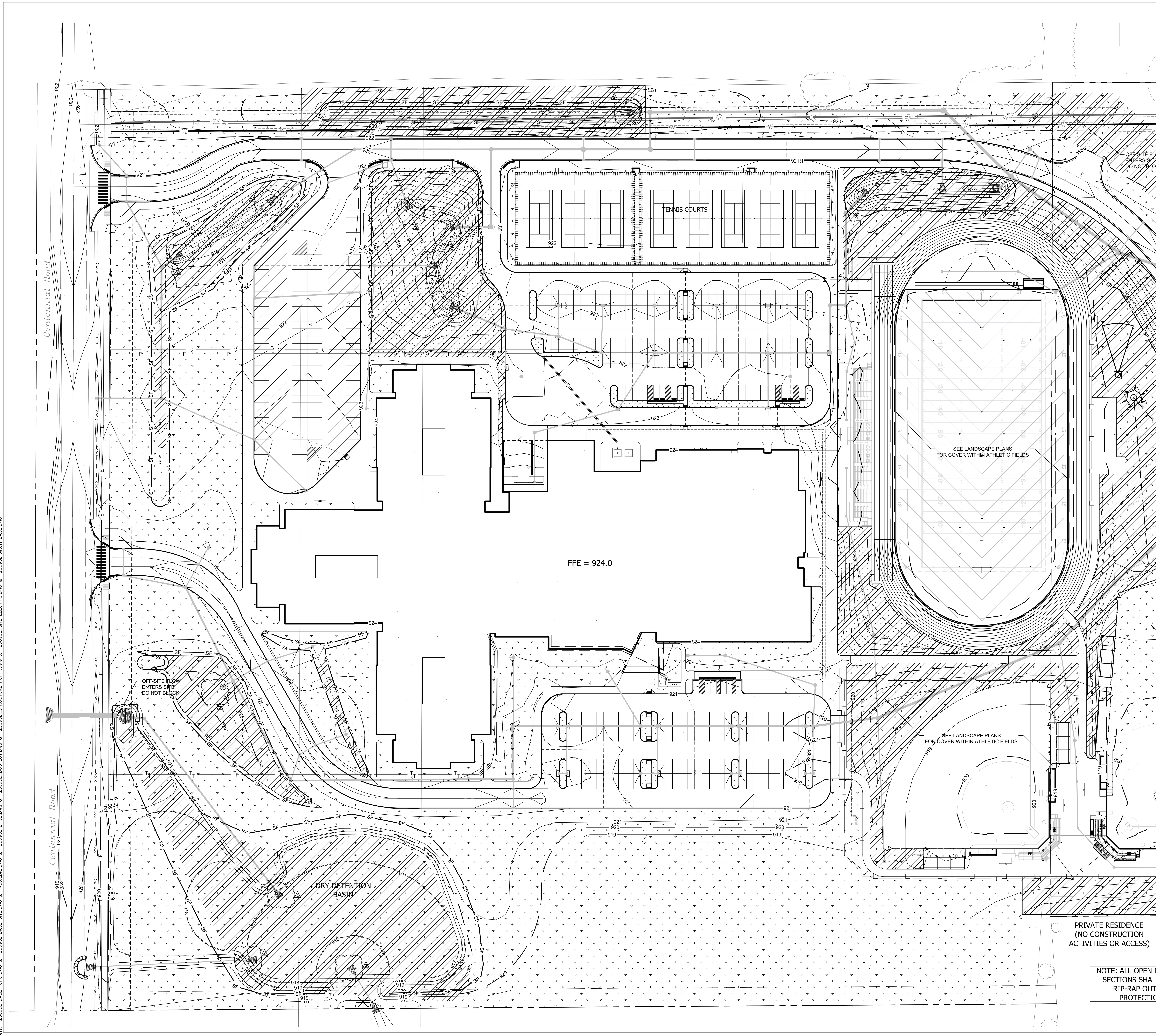
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
GRADING PLAN

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C302

PROJECT NUMBER
2023061



0 60' 120'

SCALE: 1" = 60'

EROSION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE DRAWINGS ARE CONSIDERED THE MINIMUM PRACTICES NECESSARY FOR COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AS IDENTIFIED UNDER SECTION 327-IAC-15-5 OF THE INDIANA ADMINISTRATIVE CODE. HOWEVER, SITE CONDITIONS, CONSTRUCTION METHODS, SEQUENCING OF WORK AND GENERAL PRACTICE MAY WARRANT VARIATION AND/OR ADDITIONS TO THE QUANTITIES AND LOCATIONS OF MEASURES AS SHOWN.
2. UNLESS OTHERWISE SHOWN, TEMPORARY CONTROL MEASURES SHALL BE REMOVED UPON SATISFACTORY ESTABLISHMENT OF PERMANENT VEGETATION.
3. SEE SHEET C407 FOR DETAILS AND SPECIFICATIONS REFERENCED ON THIS SHEET.
4. PERIMETER CONTROL MEASURES (I.E. SILT FENCE, DIVERSION DITCHES, TREE PROTECTION FENCING) SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK ACTIVITIES.
5. IN ADDITION TO THE MAINTENANCE REQUIREMENTS IDENTIFIED FOR INDIVIDUAL MEASURES, ALL EROSION CONTROL MEASURES INSTALLED UNDER THIS PROJECT SHALL BE INSPECTED WEEKLY TO ENSURE THEY ARE FUNCTIONING PROPERLY. MEASURES FOUND TO BE DEFICIENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY THEREAFTER.
6. THE CONTRACTOR SHALL MAINTAIN A STABLE CONSTRUCTION ENTRANCE AT ALL TIMES AND SHALL MAKE EFFORTS TO MINIMIZE THE ACCUMULATION OF SOIL, MUD AND DEBRIS ON ADJOINING ROADWAYS.
7. SYMBOLS FOR INLET PROTECTION MEASURES AND DITCH CHECKS ARE SHOWN LARGER THAN ACTUAL SIZE.
8. STABILIZATION MUST BE INITIATED BY THE END OF THE SEVENTH DAY THE AREA IS LEFT IDLE. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION OR AS INDICATED FOR PHASING AND LONG TERM SITE STABILIZATION.
9. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.
10. PORTABLE TOILETS SHALL BE ANCHORED TO THE GROUND TO PREVENT TIPPING AND SPILLS.
11. TWENTY-FOUR (24) HOURS PRIOR TO A QUALIFYING PRECIPITATION EVENT OR BY THE END OF THE NEXT BUSINESS DAY FOLLOWING EACH MEASURABLE STORM EVENT (EXCLUDES ACCUMULATED SNOW EVENTS); WHICH IS DEFINED AS A PRECIPITATION ACCUMULATION EQUAL TO, OR GREATER THAN, ONE-HALF (0.50) INCH OF RAINFALL WITHIN A 24-HOUR PERIOD. IF NO RAIN EVENT OCCURS WITHIN THE WORK WEEK A MINIMUM OF ONE INSPECTION MUST OCCUR. IN THE EVENT OF MULTIPLE QUALIFYING EVENTS DURING THE WORK WEEK, NO MORE THAN THREE (3) INSPECTIONS WOULD BE REQUIRED TO MEET THE SELF-MONITORING COMMITMENT.

EROSION CONTROL LEGEND

LINE TYPE / SYMBOL	DESCRIPTION	LINE TYPE / SYMBOL	DESCRIPTION
	PERMANENT SEED AND STRAW MULCH AND/OR EROSION CONTROL BLANKET DEPENDING ON SEASON AND CONSTRUCTION REQUIREMENTS. SEE EROSION PLAN C407 FOR PERMANENT SEED MIX SPECIFICATIONS.		DISCHARGE POINT (WHERE STORMWATER LEAVES SITE)
	NORTH AMERICAN GREEN SC150 BN EROSION CONTROL BLANKET OVER PERMANENT SEED. SEE EROSION PLAN C407 FOR SEED MIX SPECIFICATIONS.		NORTH AMERICAN GREEN SC250 PERMANENT TURF REINFORCEMENT MAT OVER PERMANENT SEED. SEE EROSION PLAN C407 FOR SEED MIX SPECIFICATIONS.
	SOD		RIP-RAP @ CULVERT INLET/OUTLET
		SF	SILT FENCE (SEDIMENT FENCE)
			INSTALL NAG SC250 TURF REINFORCEMENT MAT OVER PERMANENT SEED OVER ENTIRE EMERGENCY SPILLWAY
	RIPRAP OUTLET/CHANNEL PROTECTION		

CONSTRUCTION & POST CONSTRUCTION SEQUENCING NOTES

1. REPAIR OR REPLACE ALL EXISTING SILT FENCE, CHECK DAMS OR INLET PROTECTION DAMAGED DURING EARTHWORK OR CONSTRUCTION ACTIVITIES.
2. DESIGNATE THE PERSON RESPONSIBLE FOR COMPLYING WITH THE ON-SITE SWPPP INSPECTIONS UNTIL ALL DISTURBED AREAS ON SITE SITE HAVE REACHED 70 PERCENT VEGETATIVE COVER DENSITY.
3. IF WORK OR CONSTRUCTION HAS STOPPED FOR 7 DAYS OR MORE BEFORE PERMANENT SEED IS APPLIED, INSTALL TEMPORARY SEED AND MULCH AS DESCRIBED ON SHEET C403. COORDINATE RESPONSIBILITY FOR COMPLETING THE SITE REVIEW AFTER EACH ½" RAINFALL AND A MINIMUM OF ONE TIME A WEEK. NO MORE THAN THREE (3) REPORTS AREA REQUIRED IN A SINGLE WEEK.
4. FOR ALL PHASES, COMPLETE MASS GRADING AND EXCAVATION. INSTALL ALL UTILITIES AS INDICATED. HAUL ALL EXCESS EXCAVATION SPOILS OFFSITE.
6. COMPLETE FILL, BACKFILL, AND ROUGH GRADING REQUIRED TO RETURN ALL AREAS WITHIN CONSTRUCTION ZONE TO SUBGRADE GRADE ELEVATION INDICATED ON PLANS. ALL FILL MATERIAL UNDER PAVEMENT OR BUILDINGS SHALL BE APPROVED BY ON-SITE GEOTECHNICAL ENGINEER.
7. PREPARE ALL PAVEMENT SUBGRADES PER PLANS AND SPECIFICATIONS.
8. MAINTAIN ALL INLET PROTECTION, CHECK DAMS AND SILT FENCING IN THE SITE PROJECT BY CLEANING OUT EVERY WEEK AND AFTER EVERY RAIN EVENT OF 1/2" OR GREATER DEPTH.
9. PERFORM FINAL GRADING AND SEEDBED PREPARATION.
10. PLACE PERMANENT SEEDING AND MULCH OR EROSION CONTROL BLANKET WITHIN 30 HOURS OF SEEDBED PREPARATION. INSTALL EROSION CONTROL BLANKETS INDICATED ON PLANS.
11. FINAL STABILIZATION IS CONSIDERED COMPLETE WHEN ALL LAND DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND A UNIFORM VEGETATED SURFACE WITH 70% DENSITY IS ACHIEVED ON ALL DISTURBED/DENUDED AREAS AND AREAS NOT HAVING A PERMANENT STRUCTURE. THE CONTRACTOR SHALL OVER-SEED AS REQUIRED TO OBTAIN 70 PERCENT VEGETATIVE DENSITY IF REQUIRED.
12. AFTER SITE HAS REACHED 70% VEGETATIVE COVER, CONTRACTOR SHALL REMOVE REMAINING TEMPORARY BMP STRUCTURES AND REPAIR AND RE-SEED ANY DISTURBED AREAS AS REQUIRED.
13. ONCE THE CONSTRUCTION ACTIVITY IS COMPLETED (BY PERMIT LANGUAGE, WHEN FINAL STABILIZATION HAS OCCURRED), A COMPLETED STORMWATER GENERAL PERMIT NOTICE OF TERMINATION (NOT) MUST BE SUBMITTED TO IDEM.

THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIAL IN THE STREET

ADJACENT ROADS MUST BE SWEPT DAILY

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brett Hite
work: (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #4	06/26/2024

ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
SWPPP PLAN (FINAL)

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C405

PROJECT NUMBER
2023061

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
705	42" Pipe End Section	907.98	42" (W)	904.00 (W)		RCP	1747464.40	176832.96	NO
706	MH 7' DIA;R-1772	914.21	42" (NW) 12" (NE) 24" (SW) 42" (E)	905.04 (NW) 909.00 (NE) 909.80 (SW)	905.04 (E)	RCP RCP RCP RCP	1747536.71	176617.36	NO
707	MH 7' DIA;R-1772	916.23	42" (NW) 12" (NE) 18" (SW) 42" (SE)	905.63 (NW) 910.50 (NE) 912.05 (SW)	905.63 (SE)	RCP RCP RCP RCP	1747639.04	176471.65	NO
708	MH 7' DIA;R-1772	918.71	36" (W) 42" (SE)	910.02 (W)	905.92 (SE)	RCP RCP	1747728.46	176380.86	NO
709	MH 6' DIA;R-1772	918.78	30" (S) 24" (W) 36" (E)	912.20 (S) 914.47 (W)	911.70 (E)	RCP RCP RCP	1747725.92	175984.00	NO
710	24" Pipe End Section	917.15	24" (E)		914.80 (E)	RCP	1747725.78	175961.76	NO
711	MH 6' DIA;R-1772	920.66	30" (W) 30" (N)	912.33 (W)	912.33 (N)	RCP RCP	1747675.91	175984.38	NO
712	MH 6' DIA;R-1772	921.58	12" (S) 12" (N) 30" (W) 30" (E)	915.50 (S) 915.50 (N) 912.56 (W)	912.56 (E)	RCP RCP RCP RCP	1747675.91	175893.95	NO
713	MH 5' DIA;R-1772	922.84	24" (W) 30" (S) 30" (E)	913.24 (W) 913.05 (S)	912.84 (E)	RCP RCP RCP	1747675.91	175769.38	NO
714	MH 4' DIA;R-1772	921.94	18" (SW) 24" (E)	913.92 (SW)	913.52 (E)	RCP RCP	1747675.91	175584.58	NO
715	24" Pipe End Section	918.25	18" (NE)		915.90 (NE)	RCP	1747608.42	175475.08	NO
719	MH 5' DIA;R-1772	921.50	30" (W) 30" (N)	913.73 (W)	913.63 (N)	RCP RCP	1747570.91	175769.37	NO
720	30" Pipe End Section	916.98	30" (E)		914.00 (E)	RCP	1747570.91	175720.14	NO
723	30" Pipe End Section	920.07					1747461.09	175722.19	NO
724	MH 5' DIA;R-1772	920.36	12" (N) 24" (SE) 24" (NW)	916.50 (N) 915.70 (SE)	915.70 (NW)	RCP RCP RCP	1747450.60	175746.93	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
771	MH 5' DIA;R-3405	920.06	30" (W) 12" (S) 30" (N)	914.60 (W) 915.80 (S)	914.60 (N)	RCP RCP RCP	1747465.06	176248.98	NO
772	MH 5' DIA; R-3455-C	920.18	30" (S) 30" (E)	914.70 (S)	914.70 (E)	RCP RCP	1747465.09	176227.49	NO
773	MH 5' DIA; R-3455-C	920.22	24" (W) 30" (N)	915.30 (W)	914.90 (N)	RCP RCP	1747401.09	176227.49	NO
774	MH 4' DIA; R-3455-C	920.85	15" (S) 24" (W) 12" (N) 24" (E)	916.24 (S) 915.44 (W) 916.24 (N)	915.50 (E)	RCP RCP RCP RCP	1747401.09	176143.49	NO
775	MH 4' DIA; R-3455-C	921.00	24" (W) 12" (N) 24" (E)	915.55 (W) 916.35 (N)	915.55 (E)	RCP RCP RCP	1747401.09	176073.49	NO
776	MH 4' DIA; R-3455-C	920.68	15" (SW) 15" (N) 24" (E)	916.25 (SW) 916.35 (N)	915.65 (E)	RCP RCP RCP	1747401.09	175990.49	NO
777	MH 4' DIA; R-3010	922.34	15" (W) 15" (NE)	916.50 (W)	916.50 (NE)	RCP RCP	1747324.41	175940.56	NO
778	MH 4' DIA;R-1772	923.18	15" (S) 10" (E) 15" (E)	916.75 (S) 916.75 (E)	916.75 (E)	RCP HDPE RCP	1747293.33	175828.25	NO
779	INLET AM; R-3472	919.80	15" (N)		916.90 (N)	RCP	1747226.83	175828.14	NO
780	INLET AM; R-3405	919.10	12" (S) 12" (N)	915.97 (S)	915.97 (N)	RCP RCP	1747415.29	176260.45	NO
781	INLET M; R-3455-C	920.45	15" (S)		916.70 (S)	RCP	1747465.09	175990.49	NO
782	INLET M; R-3455-C	920.45	12" (S)		916.70 (S)	RCP	1747465.09	176073.49	NO
783	INLET M; R-3455-C	920.35	12" (S)		916.60 (S)	RCP	1747465.09	176143.49	NO
784	INLET J; R-3287-10V	922.05	12" (W) 8" (SE) 15" (N)	917.70 (W) 918.41 (SE)	917.50 (N)	RCP HDPE RCP	1747327.09	176143.68	NO
785	INLET J; R-3287-10V	922.20	12" (E)		917.95 (E)	RCP	1747327.09	176073.66	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
833	MH 4' DIA.;R-1772	922.42	12" (W) 10" (N) 15" (E)	917.70 (W) 917.90 (N)	917.50 (E)	RCP HDPE RCP	1746991.88	176085.49	NO
834	MH 4' DIA.;R-1772	922.26	6" (NW) 12" (E)	919.00 (NW)	918.50 (E)	HDPE RCP	1746991.88	176035.30	NO
836	INLET J; R-3287-10V	920.60	12" (W) 12" (N)	915.30 (W)	915.30 (N)	RCP RCP	1746832.42	175871.41	NO
837	INLET J; R-3287-10V	920.60	12" (E)		915.50 (E)	RCP	1746832.42	175861.41	NO
839	INLET J; R-3287-10V	920.15	12" (W) 12" (N)	915.00 (W)	915.00 (N)	RCP RCP	1746832.41	175994.41	NO
840	INLET J; R-3287-10V	920.40	12" (E)		915.20 (E)	RCP	1746832.41	175971.41	NO
842	INLET J; R-3287-10V	920.10	12" (W) 12" (N)	916.25 (W)	914.55 (N)	RCP RCP	1746832.39	176104.41	NO
843	INLET J; R-3287-10V	920.10	12" (E)		916.45 (E)	RCP	1746832.39	176094.41	NO
845	INLET J; R-3287-10V	919.80	12" (W) 12" (N)	915.85 (W)	915.75 (N)	RCP RCP	1746832.38	176204.42	NO
846	INLET J; R-3287-10V	919.70	12" (E)		915.95 (E)	RCP	1746832.38	176194.42	NO
847	MH 4' DIA.; R-4342	917.60	12" (N) 12" (S)	913.60 (N)	911.65 (S)	RCP RCP	1747019.90	176286.57	NO
848	INLET F; R-4215-C	917.99	12" (N)		914.50 (N)	RCP	1746713.14	176301.11	NO
850	INLET F; R-4215-C	918.10	12" (S) 12" (N)	910.85 (S)	910.85 (N)	RCP RCP	1746876.88	176557.96	NO
851	INLET AM; R-3405	918.40	12" (SE) 12" (N)	911.95 (SE)	911.85 (N)	RCP RCP	1746758.71	176561.98	NO
852	INLET AM; R-3405	918.90	12" (E) 12" (NW)	912.30 (E)	912.30 (NW)	RCP RCP	1746705.94	176610.97	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
725	INLET J; R-3287-10V	920.61	12" (S)		917.11 (S)	RCP	1747510.46	175759.40	NO
726	MH 4' DIA; R-3287-10V	920.76	18" (E) 12" (S) 24" (NW)	916.20 (E) 916.60 (S)	915.80 (NW)	RCP RCP RCP	1747433.05	175788.72	NO
727	INLET M; R-3455-C	921.20	12" (N)		916.81 (N)	RCP	1747381.10	175788.74	NO
728	MH 4' DIA; R-3455-C	921.47	18" (E) 12" (N) 18" (W)	916.65 (E) 917.05 (N)	916.65 (W)	RCP RCP RCP	1747423.22	175860.49	NO
729	INLET M; R-3455-C	920.45	12" (S)		917.20 (S)	RCP	1747465.09	175860.49	NO
731	INLET J; R-3287-10V	922.04	15" (N) 18" (W)	916.98 (N)	916.78 (W)	RCP RCP	1747401.09	175917.97	NO
732	INLET M; R-3455-C	920.55	15" (S)		917.12 (S)	RCP	1747465.09	175920.49	NO
733	INLET AM; R-1878 A6L	923.29	10" (E) 6" (S) 12" (N)	918.33 (E) 918.67 (S)	919.16 (N)	HDPE HDPE RCP	1747325.81	175600.25	NO
734	INLET J; R-3287-10V	921.29	12" (S)		916.00 (S)	RCP	1747690.37	175894.05	NO
735	INLET J; R-3287-10V	921.28	12" (E) 12" (N)	915.72 (E)	915.72 (N)	RCP RCP	1747661.37	175894.54	NO
736	INLET J; R-3287-10V	920.19	12" (N) 12" (W)	916.35 (N)	916.25 (W)	RCP RCP	1747661.37	176044.46	NO
737	INLET J; R-3287-10V	920.19	12" (W)		916.45 (W)	RCP	1747690.37	176044.63	NO
738	12" Pipe End Section	918.16					1747518.70	175687.47	NO
739	MH 4' DIA.;R-1772	920.54	18" (W) 12" (S) 18" (E)	915.98 (W) 916.08 (S)	915.98 (E)	RCP RCP RCP	1747518.48	175611.89	NO
740	INLET M; R-3455-C	920.83	18" (S) 18" (E)	916.08 (S)	916.08 (E)	RCP RCP	1747518.70	175592.66	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
786	INLET AM; R-3405	919.57	12" (E)		915.57 (E)	RCP	1747511.14	176378.51	NO
787	INLET J; R-3287-10V	913.04	12" (NE) 12" (SW)	909.10 (NE)	909.10 (SW)	RCP RCP	1747555.90	176631.52	NO
788	INLET J; R-3287-10V	913.04	12" (SW)		909.25 (SW)	RCP	1747577.19	176651.21	NO
789	INLET AM; R-3405	919.57	12" (W) 12" (SE)	915.09 (W)	915.09 (SE)	RCP RCP	1747511.14	176481.59	NO
790	42" Pipe End Section	907.44	36" (SW)	904.00 (SW)		RCP	1747345.44	176910.40	NO
791	MH 6' DIA.;R-1772	911.10	36" (SW) 36" (NE)	904.10 (SW)	904.10 (NE)	RCP RCP	1747318.82	176874.78	NO
792	INLET AM; R-3405	919.58	12" (N) 12" (S)	916.11 (S)	916.11 (N)	RCP RCP	1747375.71	176249.63	NO
793	MH 6' DIA.;R-1772	911.22	36" (SW) 36" (NE)	904.30 (SW)	904.30 (NE)	RCP RCP	1747307.21	176859.30	NO
794	MH 6' DIA.;R-1772	910.99	36" (SW) 15" (NW) 36" (NE)	904.40 (SW) 906.80 (NW)	904.40 (NE)	RCP RCP RCP	1747287.61	176834.19	NO
795	MH 5' DIA.; R-4342	909.67	36" (SW) 36" (NE)	904.56 (SW)	904.56 (NE)	RCP RCP	1747266.18	176806.74	NO
796	MH 5' DIA.; R-4342	916.40	36" (SW) 36" (NE)	905.55 (SW)	905.55 (NE)	RCP RCP	1747090.37	176611.91	NO
797	MH 5' DIA.; R-4342	918.00	36" (W) 12" (S) 36" (NE)	906.98 (W) 909.38 (S)	906.88 (NE)	RCP RCP RCP	1747008.26	176537.50	NO
798	MH 5' DIA.; R-4342	917.45	30" (W) 12" (S) 12" (N) 36" (E)	908.28 (W) 911.74 (S) 910.00 (N)	907.78 (E)	RCP RCP RCP RCP	1746907.70	176291.98	NO
799	Manhole, 4' Dia; R-1772	919.98	12" (NW) 24" (NE)	913.42 (NW)	911.92 (NE)	RCP RCP	1747483.03	176532.32	NO
800	INLET AM; R-3405	919.58	12" (N)		916.32 (N)	RCP	1747310.71	176249.63	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
853	INLET AM; R-3405	918.95	12" (W)		912.74 (W)	RCP	1746705.43	176671.53	NO
854	INLET AM; R-3405	918.42	12" (S) 12" (N)	911.32 (S)	911.32 (N)	RCP RCP	1746821.71	176561.10	NO
855	INLET F; R-4215-C	909.20	15" (SE)		905.70 (SE)	RCP	1747158.23	176927.68	NO
856	INLET AM; R-3405	919.58	12" (N) 12" (S)	915.82 (N)	915.82 (S)	RCP RCP	1747180.70	176249.63	NO
857	MH 4' DIA.;R-1772	911.11	15" (SW) 12" (NE) 15" (NE)	906.90 (SW) 907.10 (NE)	906.90 (SE)	RCP RCP RCP	1747301.14	176824.49	NO
858	INLET J; R-3287-10V	910.82	12" (SW)		907.20 (SW)	RCP	1747309.92	176836.36	NO
859	INLET J; R-3287-10V	910.82	12" (NW) 15" (NE)	907.20 (NW)	907.00 (NE)	RCP RCP	1747292.53	176812.85	NO
860	INLET J; R-3287-10V	911.97	12" (NE) 12" (SW)	908.10 (NE)	908.00 (SW)	RCP RCP	1747435.75	176721.01	NO
861	INLET J; R-3287-10V	911.97	12" (SW)		908.25 (SW)	RCP	1747451.80	176746.35	NO
862	18" Pipe End Section	905.81	18" (S)	904.00 (S)		RCP	1747243.57	177041.35	NO
863	MH 5' DIA.;R-1772	910.52	18" (S) 18" (N)	904.10 (S)	904.10 (N)	RCP RCP	1747200.86	177025.33	NO
864	INLET AM; R-3405	919.58	12" (S)		916.08 (S)	RCP	1747245.70	176249.63	NO
865	MH 5' DIA.;R-1772	910.55	18" (S) 18" (N)	904.30 (S)	904.30 (N)	RCP RCP	1747182.79	177018.40	NO
866	MH 5' DIA.;R-1772	910.49	15" (SE) 12" (W) 15" (S) 18" (N)	904.99 (SE) 905.00 (W) 904.60 (S)	904.40 (N)	RCP RCP RCP RCP	1747175.35	177015.91	NO
867	INLET J; R-3287-10V	909.88	12" (SW) 12" (E)	905.30 (SW)	905.20 (E)	RCP RCP	1747193.07	176965.70	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
741	INLET M; R-3455-C	921.17	18" (W) 18" (N)	916.28 (W)	916.28 (N)	RCP RCP	1747482.52	175592.66	NO
742	15" Pipe End Section	918.44					1747603.02	175655.00	NO
743	INLET J; R-3287-10V	921.94	15" (N) 12" (W) 15" (S)	917.09 (N) 917.09 (W)	917.09 (S)	RCP RCP RCP	1747660.87	175633.91	NO
744	INLET J; R-3287-10V	921.94	12" (W) 15" (S)	917.19 (W)	917.19 (S)	RCP RCP	1747690.87	175633.91	NO
745	INLET J; R-3287-10V	921.27	12" (S) 12" (E)	917.56 (S)	917.56 (E)	RCP RCP	1747690.77	175512.40	NO
746	INLET J; R-3287-10V	921.27	12" (N)		917.66 (N)	RCP	1747660.87	175512.45	NO
747	INLET J; R-3287-10V	922.49	12" (E)		917.67 (E)	RCP	1747630.87	175548.58	NO
748	18" Pipe End Section	919.31					1747529.05	175343.74	NO
749	MH 5' DIA.;R-1772	921.20	18" (S) 18" (NW) 18" (NE)	917.60 (S) 917.60 (NW)	917.60 (NE)	RCP RCP RCP	1747517.15	175324.04	NO
750	INLET M; R-3010	921.82	15" (N) 18" (SE)	917.84 (N)	917.78 (SE)	RCP RCP	1747604.88	175276.54	NO
751	INLET M; R-3010	921.94	15" (NW) 15" (S)	917.94 (NW)	917.94 (S)	RCP RCP	1747640.88	175276.54	NO
752	INLET F; R-4215-C	921.10	15" (SE)		918.07 (SE)	RCP	1747681.87	175239.36	NO
753	INLET F; R-4215-C	921.20	15" (S) 18" (N)	917.90 (S)	917.70 (N)	RCP RCP	1747474.74	175324.04	NO
754	INLET J; R-3287-10V	921.50	15" (W) 15" (SE) 18" (S)	918.20 (W) 918.30 (SE)	918.20 (N)	RCP RCP RCP	1747339.50	175324.04	NO
755	INLET F; R-4215-C	920.37	15" (E)		918.40 (E)	RCP	1747339.75	175236.14	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
801	INLET J; R-3287-10V	919.69	30" (W) 15" (N) 12" (S) 30" (E)	908.85 (W) 914.00 (N) 914.79 (S)	908.73 (E)	RCP RCP RCP RCP	1746896.38	176204.42	NO
802	MH 5' DIA; R-3287-10V	919.70	30" (W) 30" (E)	909.05 (W)	908.95 (E)	RCP RCP	1746896.38	176194.42	NO
803	MH 5' DIA; R-3287-10V	920.10	30" (W) 12" (S) 30" (E)	909.45 (W) 912.95 (S)	909.35 (E)	RCP RCP RCP	1746896.39	176104.42	NO
804	MH 5' DIA; R-3287-10V	920.10	30" (W) 30" (E)	909.65 (W)	909.55 (E)	RCP RCP	1746896.39	176094.42	NO
805	MH 5' DIA; R-3287-10V	920.15	30" (W) 12" (S) 30" (E)	910.10 (W) 913.50 (S)	910.00 (E)	RCP RCP RCP	1746896.41	175994.42	NO
806	MH 5' DIA; R-3287-10V	920.26	24" (W) 15" (NW) 30" (E)	910.65 (W) 916.40 (NW)	910.15 (E)	RCP RCP RCP	1746896.41	175971.42	NO
807	INLET J; R-3287-10V	920.26	24" (W) 12" (S) 24" (E)	911.10 (W) 914.00 (S)	911.00 (E)	RCP RCP RCP	1746896.42	175871.42	NO
808	INLET J; R-3287-10V	920.26	24" (W) 24" (E)	911.40 (W)	911.30 (E)	RCP RCP	1746896.42	175861.42	NO
809	MH 4' DIA.; R-4342	920.87	24" (S) 12" (N) 24" (E)	911.70 (S) 915.68 (N)	911.60 (E)	RCP RCP RCP	1746896.43	175798.99	NO
810	MH 4' DIA.;R-1772	922.22	12" (S) 24" (W) 24" (E)	917.60 (S) 912.80 (W)	911.87 (N)	RCP RCP RCP	1746825.20	175798.99	NO
811	MH 4' DIA.;R-1772	922.83	24" (W) 8" (NW) 24" (NE)	913.05 (W) 914.23 (NW)	912.95 (E)	RCP HDPE RCP	1746824.72	175739.18	NO
812	MH 4' DIA.;R-1772	921.25	24" (NW) 12" (N) 24" (E)	913.90 (NW) 916.50 (N)	913.50 (E)	RCP RCP RCP	1746822.83	175498.41	NO
813	MH 4' DIA.;R-1772	920.29	24" (NW) 15" (NE) 15" (SW) 24" (SE)	914.50 (NW) 914.95 (NE) 915.00 (SW)	914.20 (SE)	RCP RCP RCP RCP	1746957.56	175420.61	NO
814	MH 4' DIA.; R-3010	922.29	12" (NE) 18" (W) 24" (SE)	917.70 (NE) 915.50 (W)	915.00 (SE)	RCP RCP RCP	1747083.97	175356.09	NO
815	INLET J; R-3287-10V	921.56	12" (N) 18" (E)	916.35 (N)	915.85 (E)	RCP RCP	1747099.98	175272.15	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
868	INLET J; R-3287-10V	909.87	12" (NE)		906.00 (NE)	RCP	1747167.26	176951.41	NO
870	MH 4' DIA.; R-4342	910.00	15" (S) 15" (S) 15" (NW) 15" (N)	905.41 (S) 904.85 (S) 904.85 (NW)	904.85 (N)	RCP RCP RCP RCP	1747123.14	176999.42	NO
871	INLET F; R-4215-C	910.22	15" (N)		906.50 (N)	RCP	1746659.30	176986.30	NO
872	INLET F; R-4215-C	913.03	15" (S) 15" (N)	905.41 (S)	905.31 (N)	RCP RCP	1746962.83	176994.89	NO
873	INLET J; R-3287-10V	910.25	15" (E) 12" (S) 15" (NW)	905.10 (E) 905.95 (S)	905.10 (NW)	RCP RCP RCP	1747157.31	177057.27	NO
874	INLET J; R-3287-10V	910.46	12" (E) 12" (S) 15" (W)	905.75 (E) 906.01 (S)	905.75 (W)	RCP RCP RCP	1747145.39	177237.40	NO
875	INLET J; R-3287-10V	909.91	12" (S) 12" (W)	906.20 (S)	906.20 (W)	RCP RCP	1747145.03	177357.91	NO
876	INLET J; R-3287-10V	909.91	12" (N)		906.30 (N)	RCP	1747116.03	177357.91	NO
878	INLET J; R-3287-10V	910.47	12" (N)		906.75 (N)	RCP	1747115.95	177237.29	NO
880	INLET J; R-3287-10V	910.24	12" (N)		906.25 (N)	RCP	1747128.25	177049.79	NO
905	MH 4' DIA.; R-4342	909.00	24" (E)		904.45 (E)	RCP	1747095.51	177306.09	NO
906	MH 4' DIA.; R-4342	909.10	24" (W) 24" (N)	904.25 (W)	904.25 (N)	RCP RCP	1747095.58	177407.63	NO
907	24" Pipe End Section	903.54	24" (S)	904.00 (S)		RCP	1747221.89	177407.51	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
756	12" Pipe End Section	912.76	15" (N)	913.60 (N)		RCP	1747626.58	176378.98	NO
757	INLET J; R-3287-10V	921.21	15" (N) 18" (E)	917.25 (N)	917.05 (E)	RCP RCP	1747474.74	175448.82	NO
758	INLET J; R-3287-10V	921.75	15" (S)		917.40 (S)	RCP	1747516.24	175448.82	NO
759	INLET J; R-3287-10V	922.55	15" (SE) 15" (NW)	918.51 (SE)	918.51 (NW)	RCP RCP	1747283.54	175448.82	NO
760	INLET J; R-3287-10V	922.79	15" (NW)		918.76 (NW)	RCP	1747214.62	175518.91	NO
761	18" Pipe End Section	914.31	18" (NE)		912.50 (NE)	RCP	1747622.95	176455.80	NO
762	INLET J; R-3287-10V	917.73	15" (W) 15" (S)	913.85 (W)	913.85 (S)	RCP RCP	1747690.16	176379.70	NO
763	INLET J; R-3287-10V	919.48	15" (S) 15" (S)	915.40 (S)	915.40 (S)	RCP RCP	1747690.37	176294.50	NO
764	INLET J; R-3287-10V	919.48	15" (N)		915.65 (N)	RCP	1747661.37	176294.50	NO
765	INLET J; R-3287-10V	917.73	15" (N) 15" (S)	913.75 (N)	913.75 (S)	RCP RCP	1747661.18	176378.82	NO
766	24" Pipe End Section	916.75					1747613.93	176270.59	NO
767	MH 4' DIA.;R-1772	915.94	12" (SE) 12" (SW)	910.70 (SE)	910.70 (SW)	RCP RCP	1747676.40	176497.59	NO
768	INLET J; R-3287-10V	915.07	12" (S) 12" (NW)	910.90 (S)	910.80 (NW)	RCP RCP	1747664.51	176510.72	NO
769	INLET J; R-3287-10V	915.08	12" (S)		911.00 (N)	RCP	1747637.46	176500.27	NO
770	MH 5' DIA.;R-1772	920.36	30" (S) 30" (NE)	914.50 (S)	914.50 (NE)	RCP RCP	1747589.42	176248.48	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
816	INLET J; R-3287-10V	921.29	12" (S)		917.50 (S)	RCP	1747135.98	175272.15	NO
817	INLET F; R-4215-C	921.90	12" (SW)		918.65 (SW)	RCP	1747137.52	175386.74	NO
818	INLET J; R-3287-10V	922.29	12" (NE) 12" (SW)	918.50 (NE)	918.50 (SW)	RCP RCP	1747115.21	175373.98	NO
819	INLET J; R-3287-10V	923.01	15" (NE) 15" (SW)	916.50 (NE)	915.10 (SW)	RCP RCP	1746971.35	175444.34	NO
820	INLET J; R-3287-10V	922.59	15" (E) 15" (SW)	917.00 (E)	916.70 (SW)	RCP RCP	1746984.16	175466.97	NO
821	INLET F; R-4215-C	922.87	10" (E) 15" (W)	918.41 (E)	918.00 (W)	HDPE RCP	1747004.05	175528.29	NO
822	INLET J; R-3287-10V	922.34	12" (NE) 12" (S)	916.74 (NE)	916.64 (S)	RCP RCP	1746857.95	175509.81	NO
823	INLET J; R-3287-10V	921.90	12" (E) 12" (SW)	917.00 (E)	916.90 (SW)	RCP RCP	1746870.93	175532.34	NO
824	INLET F; R-4215-C	921.50	12" (W)		918.00 (W)	RCP	1746885.50	175573.51	NO
825	INLET F; R-4215-C	919.00	15" (NE)		915.25 (NE)	RCP	1746949.46	175406.59	NO
826	INLET J; R-3287-10V	921.67	12" (S) 12" (N)	917.85 (S)	917.85 (N)	RCP RCP	1746811.88	175798.98	NO
827	INLET M; R-3010	921.67	12" (N)		917.95 (N)	RCP	1746785.88	175798.97	NO
828	MH 4' DIA.; R-2535	922.96	8" (N) 6" (W) 15" (S)	918.30 (N) 915.50 (W)	918.00 (S)	HDPE HDPE RCP	1746989.11	175799.50	NO
830	MH 4' DIA.; R-2535	922.49	8" (NW) 15" (S)	918.50 (NW)	918.00 (SE)	HDPE RCP	1746970.25	175927.01	NO
832	MH 4' DIA.;R-1772	920.79	15" (W) 15" (S)	916.40 (W)	915.40 (S)	RCP RCP	1746951.88	176207.49	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
878	36" Pipe End Section	908.82	72" (S)		905.20 (S)	Reinforced Concrete Pipe	1747152.39	177498.42	NO
879	36" Pipe End Section	908.72	72" (N)	905.10 (N)		Reinforced Concrete Pipe	1747090.39	177498.42	NO
880	36" Pipe End Section	908.82	72" (S)		905.20 (S)	Reinforced Concrete Pipe	1747152.39	177511.42	NO
881	36" Pipe End Section	908.72	72" (N)	905.10 (N)		Reinforced Concrete Pipe	1747090.39	177511.42	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
306	Null Structure	-0.41					1746918.25	175178.65	NO
307	Null Structure	-0.41					1746919.15	175236.20	NO
887	24" Pipe End Section	920.44	60" (E)		917.90 (E)	Reinforced Concrete Pipe	1746912.07	175178.74	NO
889	24" Pipe End Section	920.24	60" (W)	917.70 (W)		Reinforced Concrete Pipe	1746910.98	175263.67	NO
890	24" Pipe End Section	920.05	24" (E)		917.70 (E)	RCP	1746908.45	175282.75	NO
891	MH 4' DIA.;R-1772	920.91	24" (W) 24" (SE)	917.60 (W)	917.60 (SE)	RCP RCP	1746906.58	175300.60	NO
892	24" Pipe End Section	919.35	24" (NW)	917.00 (NW)		RCP	1746666.92	175483.77	NO
893	12" Pipe End Section	919.07	12" (E)		917.80 (E)	RCP	1746571.12	175230.98	NO
894	12" Pipe End Section	918.27	12" (W)	917.00 (W)		RCP	1746580.96	175449.04	NO
895	12" Pipe End Section	916.77	12" (SE)		915.50 (SE)	RCP	1746563.95	175583.06	NO
896	12" Pipe End Section	916.57	12" (NW)	915.30 (NW)		RCP	1746517.65	175611.23	NO

STRUCTURE DATA TABLE

STR. No.	CASTING TYPE	CASTING ELEVATION	PIPE SIZE	INVERT IN	INVERT OUT	PIPE MATERIAL	NORTHING	EASTING	STORM BMP (Y/N)
701	30" Pipe End Section	905.35					1746983.02	177637.05	NO
702	MH 5' DIA.;R-1772	907.81	15" (N) 30" (S)	903.50 (N)	903.50 (S)	RCP RCP	1747210.90	177637.15	NO
703	15" Pipe End Section	905.04	15" (S)		903.50 (S)	RCP	1747223.89	177637.26	NO
901	MH 7' DIA.;R-1772	911.22	24" (S) 24" (E)	904.40 (S)	904.40 (E)	RCP RCP	1747321.19	176859.97	YES
904	MH 6' DIA.;R-1772	911.02	15" (SE) 15" (E)	903.00 (SE)	903.00 (E)	RCP RCP	1747195.27	177011.42	YES

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

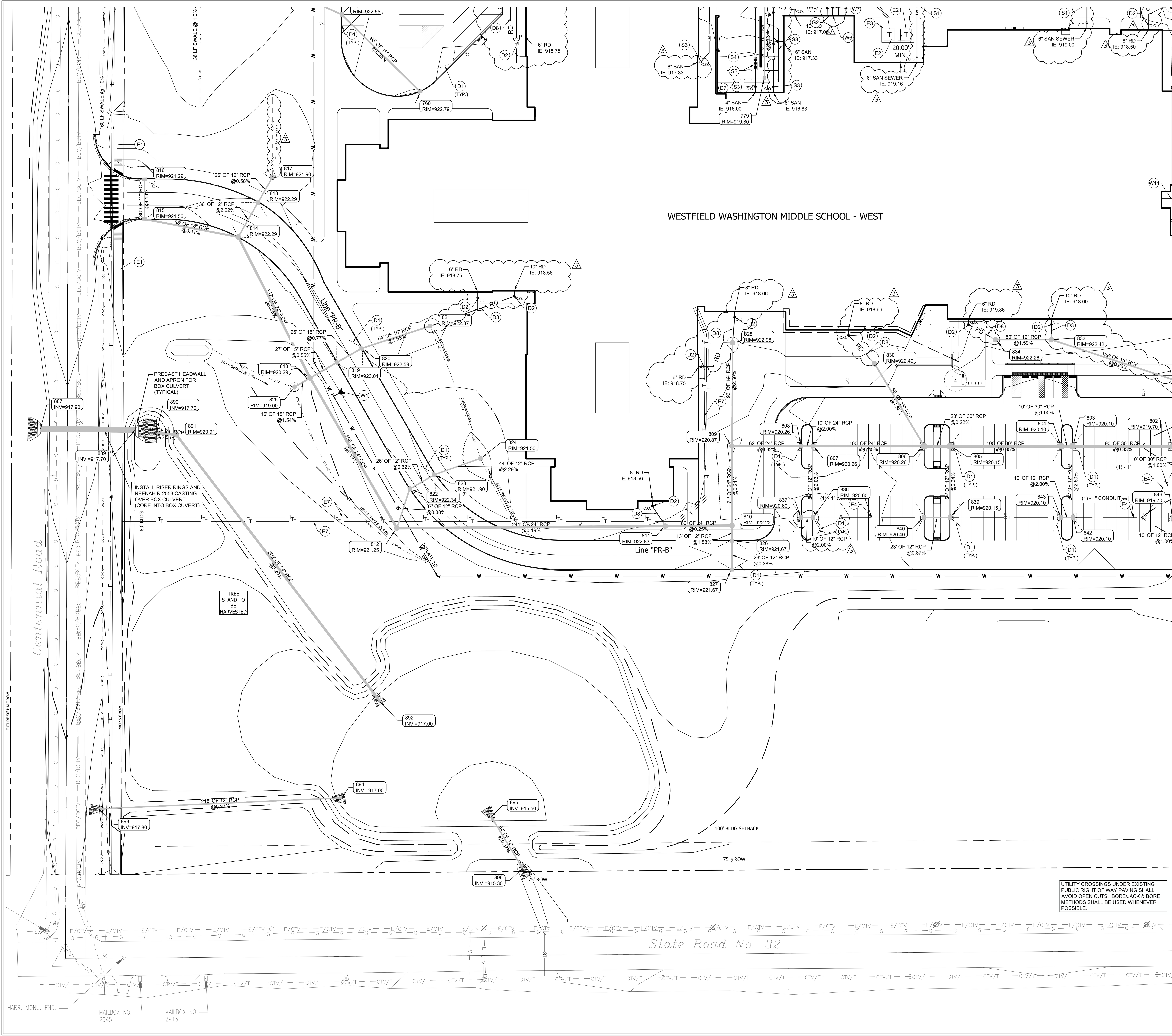
DRAWING TITLE:
STRUCTURE DATA TABLE

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C500

PROJECT NUMBER
2023061

Z:\2023\23093L-CONTEXT, NEW WESTFIELD MIDDLE SCHOOL-WEST\DWGS\C501 UTILITY PLAN.DWG plotted by STEVEN O'ROURKE on 6/26/2024 4:32:01 PM last saved by SOROURKE on 6/26/2024 4:24:59 PM
Xrefs: 23093L BASE TOPO.DWG & 23093L BASE SITE.DWG & X36X24E.DWG & 23093L L-SB.DWG & 23093L_BUS LOT.DWG & 23093L_SITE ELECTRIC.DWG & 23093L_STRUCTURE POINTING & 23093L ARCH BASE.DWG



SCALE: 1" = 40'

KEYMAP

UTILITY NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
2. PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITIES.
3. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL SA-9.
4. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 54 INCHES OF COVER AS MEASURED FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE.
5. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.
6. WHERE WATER FITTINGS ARE REQUIRED, DUCTILE IRON (DI) FITTINGS SHALL BE USED. FITTING JOINTS SHALL BE OF STANDARD MJ TYPE (ANSI/AWWA C111/A21.11) OR PJ TYPE (ANSI/AWWA C111/A21.11).
7. DI FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, 350 PSI AND SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA C104/A21.4 AND SHALL BE OUTSIDE COATED WITH A BITUMINOUS COATING.
8. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
9. PIPE LENGTHS SHOWN FOR STORM SEWERS ARE MEASURED TO THE DOWNSTREAM END OF END SECTIONS.
10. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
11. ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
12. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.
13. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
14. ALL INLET CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 24 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.
15. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
16. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
17. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB OUTS. INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
18. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
19. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
20. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.
21. MR. MANHOLE (CONCRETE COLLAR) SHALL BE ADDED TO ALL EXISTING VALVES, MANHOLES AND INLETS IN PAVEMENT.

UTILITY KEY NOTE LEGEND

D - DRAINAGE / STORM SEWER

- D1 15 LF 6" SSD @ 1% MIN SLOPE
- D2 CLEANOUT
- D3 10" ROOF DRAIN @ 0.4% MIN SLOPE
- D4 PRECAST WINGWALLS, APRON, AND FOUNDATION SYSTEM TO BE DELEGATED DESIGN BY MANUFACTURER.
- D5 MANHOLE BURIED UNDER FUTURE SYNTHETIC TURF.
- D6 12" DUAL WALL PERFORATED HDPE.
- D7 TRENCH DRAIN. (SEE DETAIL ON C901)
- D8 ROOF DRAIN @ 1% MIN SLOPE SIZE AS INDICATED

E - ELECTRIC, TELECOM & GEOTHERMAL

- E1 (2) 4" SCHEDULE 40 PVC CONDUITS FOR PRIMARY ELECTRIC SERVICE UNDER PAVEMENT. COORDINATE WITH DUKE
- E2 TRANSFORMER (1500 KW)
- E3 TRANSFORMER PAD PER UTILITY OWNER SPECIFICATIONS. (SEE SITE ELECTRIC PLANS)
- E4 1" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E5 2" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E6 (2) 3" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E7 (3) 4" TELECOM CONDUIT LINE WITH (2) HANDHOLE BY BUILDING & ROAD (SEE DESIGN 27 PLANS)
- E8 (2) 10" GEOTHERMAL LINES (SEE REDIMOND PLANS)

G - GAS

- G1 GAS SERVICE LINE. COORDINATE WITH LOCAL UTILITY PROVIDER. (SEE MEP PLANS)
- G2 GAS METER (SEE MEP PLANS)
- 8 SEE SITE UTILITY PLAN BY OTHERS

S - SANITARY SEWER

- S1 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE.
- S2 GREASE INTERCEPTOR
- S3 CLEANOUT
- S4 SAMPLE STRUCTURE
- S5 SANITARY MANHOLE

W - WATER / FIRE PROTECTION

- W1 FIRE HYDRANT
- W2 FIRE DEPARTMENT CONNECTION W/ 4" SERVICE LINE (COORDINATE WITH MEP PLANS)
- W3 8-INCH WATER MAIN (C900 PVC)
- W4 8-INCH PRESSURE CONNECTION (HOT TAP) TO EXISTING 20-INCH WATERMAIN
- W5 4-INCH DOMESTIC SERVICE CONNECTION (COORDINATE FINAL SIZING WITH MEP PLANS)
- W6 8-INCH FIRE SERVICE LINE
- W7 POST INDICATOR VALVE
- W8 OMIT
- W9 OMIT
- W10 8"X4" TEE
- W11 2" WATER SERVICE TYPE K COPPER
- W12 ¾" WATER SERVICE TYPE K COPPER PLUG END FOR FUTURE CONNECTION TO STORAGE SHED

811 Know what's below. Call before you dig.

APPROVAL PENDING NOT FOR CONSTRUCTION

W

CSO
Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1964

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	06/17/2024
3	ADDENDUM #3	06/21/2024
4	ADDENDUM #4	06/26/2024

ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

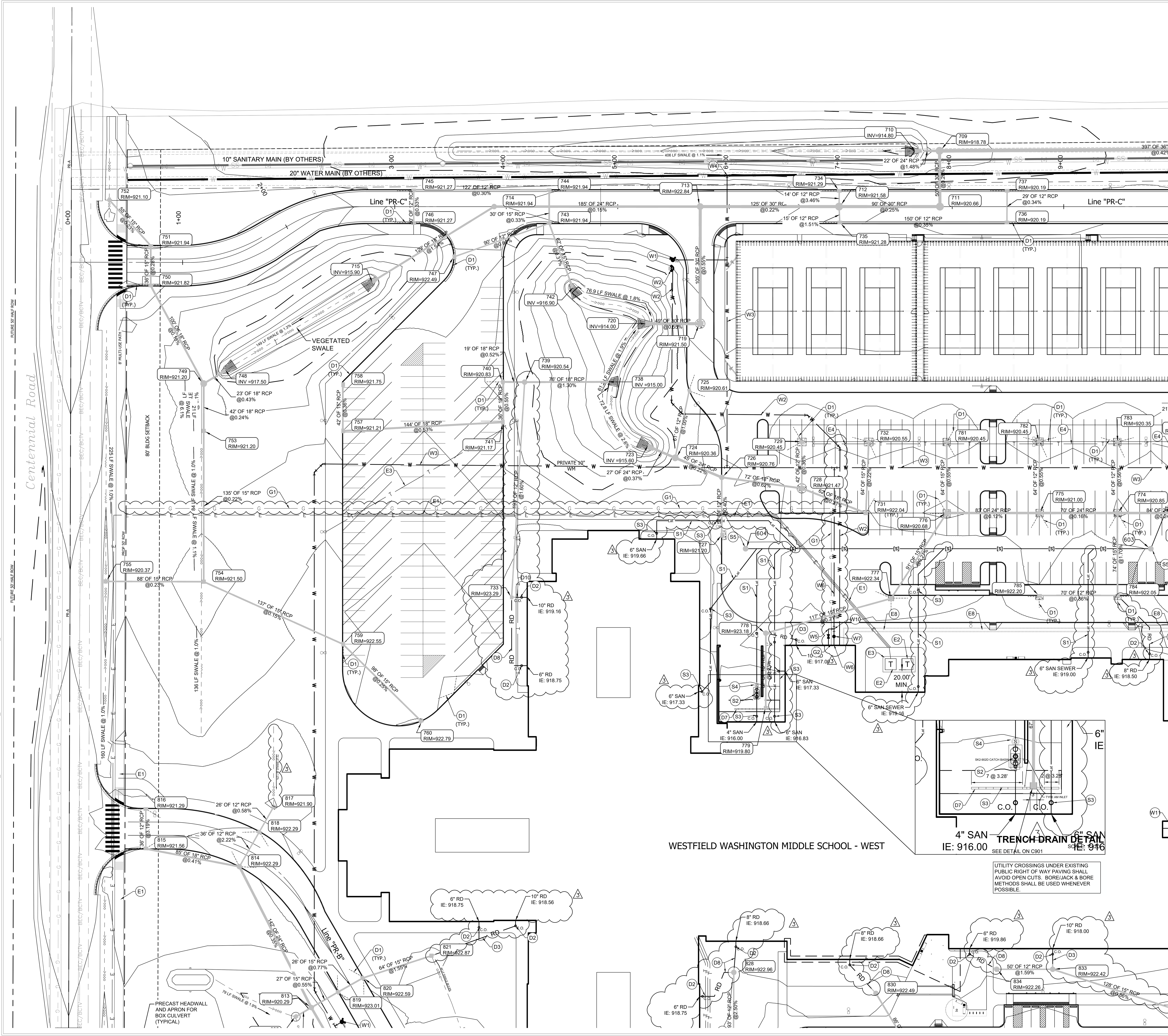
DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

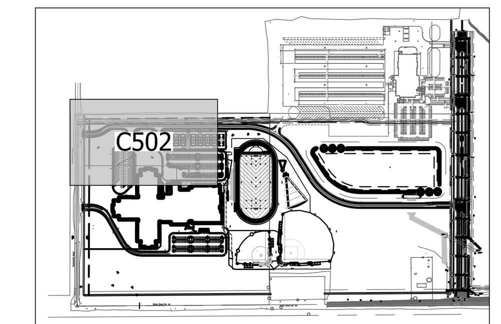
DRAWING NUMBER
C501

PROJECT NUMBER
2023061

Z:\2023\23093L-CONTEXT, NEW WESTFIELD MIDDLE SCHOOL-WEST\DWG\C501 UTILITY PLAN.DWG plotted by STEVEN O'ROURKE on 6/26/2024 4:32:11 PM last saved by SOROURKE on 6/26/2024 4:24:59 PM



SCALE: 1" = 40'



KEYMAP

UTILITY NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
2. PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITIES.
3. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL SA-9.
4. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 54 INCHES OF COVER AS MEASURED FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE.
5. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.
6. WHERE WATER FITTINGS ARE REQUIRED, DUCTILE IRON (DI) FITTINGS SHALL BE USED. FITTING JOINTS SHALL BE OF STANDARD MJ TYPE (ANSI/AWWA C111/A21.11) OR PJ TYPE (ANSI/AWWA C111/A21.11).
7. DI FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, 350 PSI AND SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA C104/A21.4 AND SHALL BE OUTSIDE COATED WITH A BITUMINOUS COATING.
8. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
9. PIPE LENGTHS SHOWN FOR STORM SEWERS ARE MEASURED TO THE DOWNSTREAM END OF END SECTIONS.
10. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
11. ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
12. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.
13. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
14. ALL INLET CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 24 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.
15. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
16. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
17. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB OUTS. INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
18. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
19. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
20. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.
21. MR. MANHOLE (CONCRETE COLLAR) SHALL BE ADDED TO ALL EXISTING VALVES, MANHOLES AND INLETS IN PAVEMENT.

UTILITY KEY NOTE LEGEND

D - DRAINAGE / STORM SEWER

D1 15 LF 6" SSD @ 1% MIN SLOPE
D2 CLEANOUT
D3 10" ROOF DRAIN @ 0.4% MIN SLOPE
D4 PRECAST WINGWALLS, APRON, AND FOUNDATION SYSTEM TO BE DELEGATED DESIGN BY MANUFACTURER.
D5 MANHOLE BURIED UNDER FUTURE SYNTHETIC TURF.
D6 12" DUAL WALL PERFORATED HDPE.
D7 TRENCH DRAIN. (SEE DETAIL ON C901)
D8 ROOF DRAIN @ 1% MIN SLOPE SIZE AS INDICATED

E - ELECTRIC, TELECOM & GEOTHERMAL

E1 (2) 4" SCHEDULE 40 PVC CONDUITS FOR PRIMARY ELECTRIC SERVICE UNDER PAVEMENT. COORDINATE WITH DUKE
E2 TRANSFORMER (1500 KW)
E3 TRANSFORMER PAD PER UTILITY OWNER SPECIFICATIONS. (SEE SITE ELECTRIC PLANS)
E4 1" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
E5 2" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
E6 (2) 3" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
E7 (3) 4" TELECOM CONDUIT LINE WITH (2) HANDHOLE BY BUILDING & ROAD (SEE DESIGN 27 PLANS)
E8 (2) 10" GEOTHERMAL LINES (SEE REDIMOND PLANS)

G - GAS

G1 GAS SERVICE LINE. COORDINATE WITH LOCAL UTILITY PROVIDER. (SEE MEP PLANS)
G2 GAS METER (SEE MEP PLANS)

SEE SITE UTILITY PLAN BY OTHERS

S - SANITARY SEWER

S1 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE.
S2 GREASE INTERCEPTOR
S3 CLEANOUT
S4 SAMPLE STRUCTURE
S5 SANITARY MANHOLE

811 Know what's below. Call before you dig.

W - WATER / FIRE PROTECTION

W1 FIRE HYDRANT
W2 FIRE DEPARTMENT CONNECTION W/ 4" SERVICE LINE (COORDINATE WITH MEP PLANS)
W3 8-INCH WATER MAIN (C900 PVC)
W4 8-INCH PRESSURE CONNECTION (HOT TAP) TO EXISTING 20-INCH WATERMAIN
W5 4-INCH DOMESTIC SERVICE CONNECTION (COORDINATE FINAL SIZING WITH MEP PLANS)
W6 8-INCH FIRE SERVICE LINE
W7 POST INDICATOR VALVE
W8 OMIT
W9 OMIT
W10 8"X4" TEE
W11 2" WATER SERVICE TYPE K COPPER
W12 $\frac{3}{4}$" WATER SERVICE TYPE K COPPER PLUG END FOR FUTURE CONNECTION TO STORAGE SHED

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

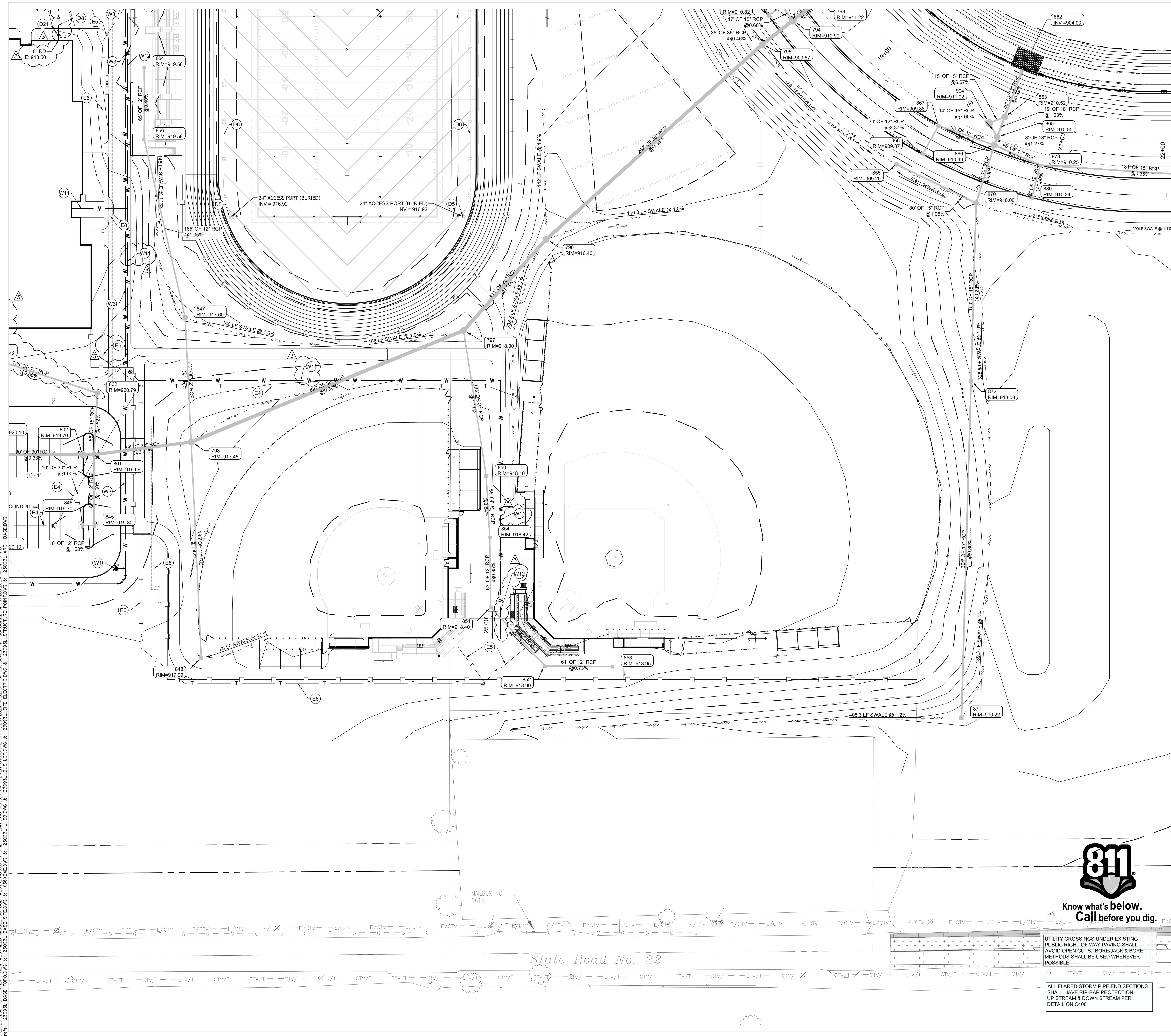
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
UTILITY PLAN

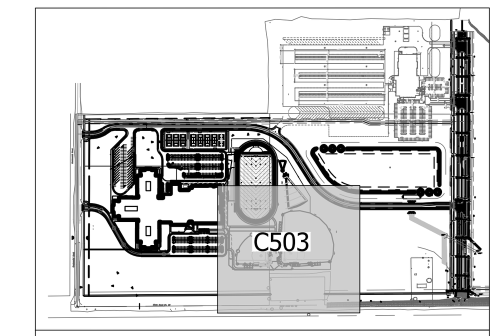
CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C502

PROJECT NUMBER
2023061



SCALE: 1" = 40'



KEYMAP

UTILITY NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
2. PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITIES.
3. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL SA-9.
4. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 54 INCHES OF COVER AS MEASURED FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE.
5. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.
6. WHERE WATER FITTINGS ARE REQUIRED, DUCTILE IRON (DI) FITTINGS SHALL BE USED. FITTING JOINTS SHALL BE OF STANDARD MJ TYPE (ANSI/AWWA C111/A21.11) OR PJ TYPE (ANSI/AWWA C111/A21.11).
7. DI FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, 350 PSI AND SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA C104/A21.4 AND SHALL BE OUTSIDE COATED WITH A BITUMINOUS COATING.
8. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
9. PIPE LENGTHS SHOWN FOR STORM SEWERS ARE MEASURED TO THE DOWNSTREAM END OF END SECTIONS.
10. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
11. ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
12. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.
13. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
14. ALL INLET CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 24 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.
15. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
16. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
17. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB OUTS. INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
18. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
19. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
20. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.
21. MR. MANHOLE (CONCRETE COLLAR) SHALL BE ADDED TO ALL EXISTING VALVES, MANHOLES AND INLETS IN PAVEMENT.

UTILITY KEY NOTE LEGEND

D - DRAINAGE / STORM SEWER

- D1 15 LF 6" SSD @ 1% MIN SLOPE
- D2 CLEANOUT
- D3 10" ROOF DRAIN @ 0.4% MIN SLOPE
- D4 PRECAST WINGWALLS, APRON, AND FOUNDATION SYSTEM TO BE DELEGATED DESIGN BY MANUFACTURER.
- D5 MANHOLE BURIED UNDER FUTURE SYNTHETIC TURF.
- D6 12" DUAL WALL PERFORATED HDPE.
- D7 TRENCH DRAIN. (SEE DETAIL ON C901)
- D8 ROOF DRAIN @ 1% MIN SLOPE SIZE AS INDICATED

E - ELECTRIC, TELECOM & GEOTHERMAL

- E1 (2) 4" SCHEDULE 40 PVC CONDUITS FOR PRIMARY ELECTRIC SERVICE UNDER PAVEMENT. COORDINATE WITH DUKE
- E2 TRANSFORMER (1500 KW)
- E3 TRANSFORMER PAD PER UTILITY OWNER SPECIFICATIONS. (SEE SITE ELECTRIC PLANS)
- E4 1" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E5 2" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E6 (2) 3" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E7 (3) 4" TELECOM CONDUIT LINE WITH (2) HANDHOLE BY BUILDING & ROAD (SEE DESIGN 27 PLANS)
- E8 (2) 10" GEOTHERMAL LINES (SEE REDIMOND PLANS)

G - GAS

- G1 GAS SERVICE LINE. COORDINATE WITH LOCAL UTILITY PROVIDER. (SEE MEP PLANS)
- G2 GAS METER (SEE MEP PLANS)

SEE SITE UTILITY PLAN BY OTHERS

S - SANITARY SEWER

- S1 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE.
- S2 GREASE INTERCEPTOR
- S3 CLEANOUT
- S4 SAMPLE STRUCTURE
- S5 SANITARY MANHOLE

W - WATER / FIRE PROTECTION

- W1 FIRE HYDRANT
- W2 FIRE DEPARTMENT CONNECTION W/ 4" SERVICE LINE (COORDINATE WITH MEP PLANS)
- W3 8-INCH WATER MAIN (C900 PVC)
- W4 8-INCH PRESSURE CONNECTION (HOT TAP) TO EXISTING 20-INCH WATERMAIN
- W5 4-INCH DOMESTIC SERVICE CONNECTION (COORDINATE FINAL SIZING WITH MEP PLANS)
- W6 8-INCH FIRE SERVICE LINE
- W7 POST INDICATOR VALVE
- W8 OMIT
- W9 OMIT
- W10 8"X4" TEE
- W11 2" WATER SERVICE TYPE K COPPER 3
- W12 $\frac{3}{4}$" WATER SERVICE TYPE K COPPER PLUG END FOR FUTURE CONNECTION TO STORAGE SHED

Know what's below. Call before you dig.

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brett Hite
work: (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:		
1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

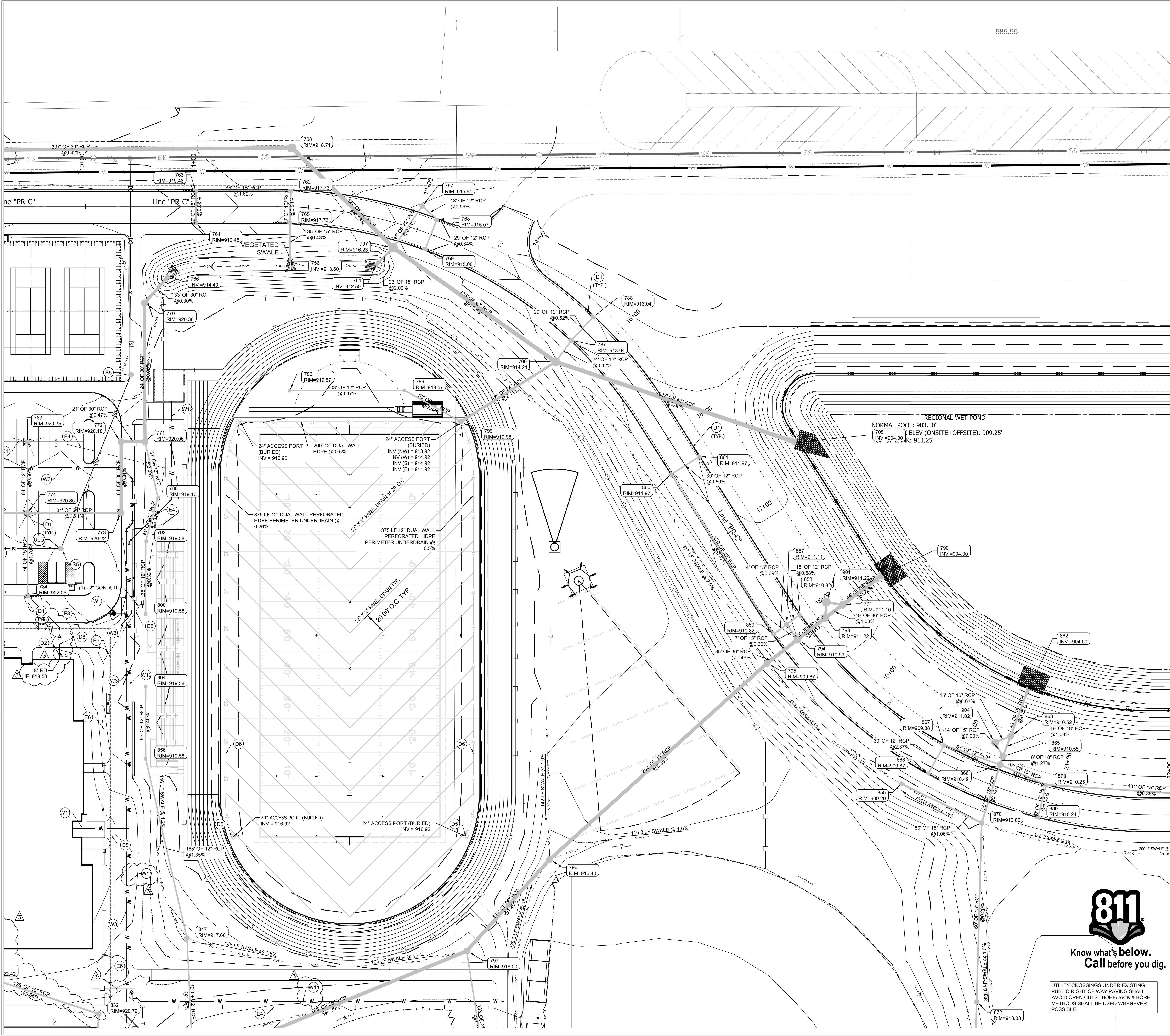
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

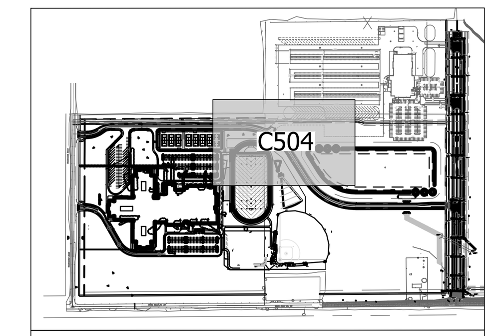
DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C503

PROJECT NUMBER
2023061





SCALE: 1" = 40'

KEYMAP

UTILITY NOTES

1. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
2. PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITIES.
3. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL SA-9.
4. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 54 INCHES OF COVER AS MEASURED FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE.
5. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.
6. WHERE WATER FITTINGS ARE REQUIRED, DUCTILE IRON (DI) FITTINGS SHALL BE USED. FITTING JOINTS SHALL BE OF STANDARD MJ TYPE (ANSI/AWWA C111/A21.11) OR PJ TYPE (ANSI/AWWA C111/A21.11).
7. DI FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10, 350 PSI AND SHALL BE CEMENT MORTAR LINED PER ANSI/AWWA C104/A21.4 AND SHALL BE OUTSIDE COATED WITH A BITUMINOUS COATING.
8. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
9. PIPE LENGTHS SHOWN FOR STORM SEWERS ARE MEASURED TO THE DOWNSTREAM END OF END SECTIONS.
10. WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
11. ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
12. ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE CONE AND/OR BARREL SECTION OF THE STRUCTURE.
13. PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
14. ALL INLET CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 24 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.
15. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS, ETC. WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED TO DISCONNECT BY THE OWNER, UTILITY COMPANIES, AND GOVERNING AUTHORITIES. THE CONTRACTOR SHALL INSTALL AS NECESSARY, TEMPORARY SITE LIGHTING, GAS, SANITARY, WATER, STORM, ELECTRIC, TELEPHONE, AND CABLE SERVICES TO SERVICE BUILDING(S) TO REMAIN OPEN.
16. CONTRACTOR TO PROVIDE SLEEVES UNDER FOOTINGS OR THROUGH FOUNDATIONS FOR UTILITY CONNECTIONS.
17. CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC. AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING/CANOPY STUB OUTS. INCLUDING ROOF/FOOTING DRAIN CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
18. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR SITE LIGHTING PER SITE LIGHTING PLAN (BY OTHERS).
19. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR IRRIGATION PER IRRIGATION PLAN (BY OTHERS).
20. CONTRACTOR WILL BE RESPONSIBLE TO REPAIR, REPLACE, AND/OR RECONNECT ANY EXISTING DRAINAGE TILES NOT SHOWN ON THE PLANS, WHICH CROSS THROUGH EXCAVATED TRENCHES. ANY DRAINAGE TILE ENCOUNTERED IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A MEASUREMENT TAKEN FROM THE NEAREST MANHOLE OR INLET STRUCTURE TO THE CENTERLINE OF THE TILE.
21. MR. MANHOLE (CONCRETE COLLAR) SHALL BE ADDED TO ALL EXISTING VALVES, MANHOLES AND INLETS IN PAVEMENT.

UTILITY KEY NOTE LEGEND

D - DRAINAGE / STORM SEWER

- D1 15 LF 6" SSD @ 1% MIN SLOPE
- D2 CLEANOUT
- D3 10" ROOF DRAIN @ 0.4% MIN SLOPE
- D4 PRECAST WINGWALLS, APRON, AND FOUNDATION SYSTEM TO BE DELEGATED DESIGN BY MANUFACTURER.
- D5 MANHOLE BURIED UNDER FUTURE SYNTHETIC TURF.
- D6 12" DUAL WALL PERFORATED HDPE.
- D7 TRENCH DRAIN. (SEE DETAIL ON C901)
- D8 ROOF DRAIN @ 1% MIN SLOPE SIZE AS INDICATED

E - ELECTRIC, TELECOM & GEOTHERMAL

- E1 (2) 4" SCHEDULE 40 PVC CONDUITS FOR PRIMARY ELECTRIC SERVICE UNDER PAVEMENT. COORDINATE WITH DUKE
- E2 TRANSFORMER (1500 KW)
- E3 TRANSFORMER PAD PER UTILITY OWNER SPECIFICATIONS. (SEE SITE ELECTRIC PLANS)
- E4 1" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E5 2" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E6 (2) 3" TELECOM CONDUIT LINE (SEE DESIGN 27 PLANS)
- E7 (3) 4" TELECOM CONDUIT LINE WITH (2) HANDHOLE BY BUILDING & ROAD (SEE DESIGN 27 PLANS)
- E8 (2) 10" GEOTHERMAL LINES (SEE REDIMOND PLANS)
- SEE SITE UTILITY PLAN BY OTHERS

G - GAS

- G1 GAS SERVICE LINE. COORDINATE WITH LOCAL UTILITY PROVIDER. (SEE MEP PLANS)
- G2 GAS METER (SEE MEP PLANS)

S - SANITARY SEWER

- S1 6" PVC SANITARY LATERAL @ 1.04% MIN. SLOPE.
- S2 GREASE INTERCEPTOR
- S3 CLEANOUT
- S4 SAMPLE STRUCTURE
- S5 SANITARY MANHOLE

W - WATER / FIRE PROTECTION

- W1 FIRE HYDRANT
- W2 FIRE DEPARTMENT CONNECTION W/ 4" SERVICE LINE (COORDINATE WITH MEP PLANS)
- W3 8-INCH WATER MAIN (C900 PVC)
- W4 8-INCH PRESSURE CONNECTION (HOT TAP) TO EXISTING 20-INCH WATERMAIN
- W5 4-INCH DOMESTIC SERVICE CONNECTION (COORDINATE FINAL SIZING WITH MEP PLANS)
- W6 8-INCH FIRE SERVICE LINE
- W7 POST INDICATOR VALVE
- W8 OMIT
- W9 OMIT
- W10 8"X4" TEE
- W11 2" WATER SERVICE TYPE K COPPER
- W12 ¾" WATER SERVICE TYPE K COPPER PLUG END FOR FUTURE CONNECTION TO STORAGE SHED

811
Know what's below. Call before you dig.

UTILITY CROSSINGS UNDER EXISTING PUBLIC RIGHT OF WAY PAVING SHALL AVOID OPEN CUTS. BORE/JACK & BORE METHODS SHALL BE USED WHENEVER POSSIBLE.

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brett Hite
work: (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

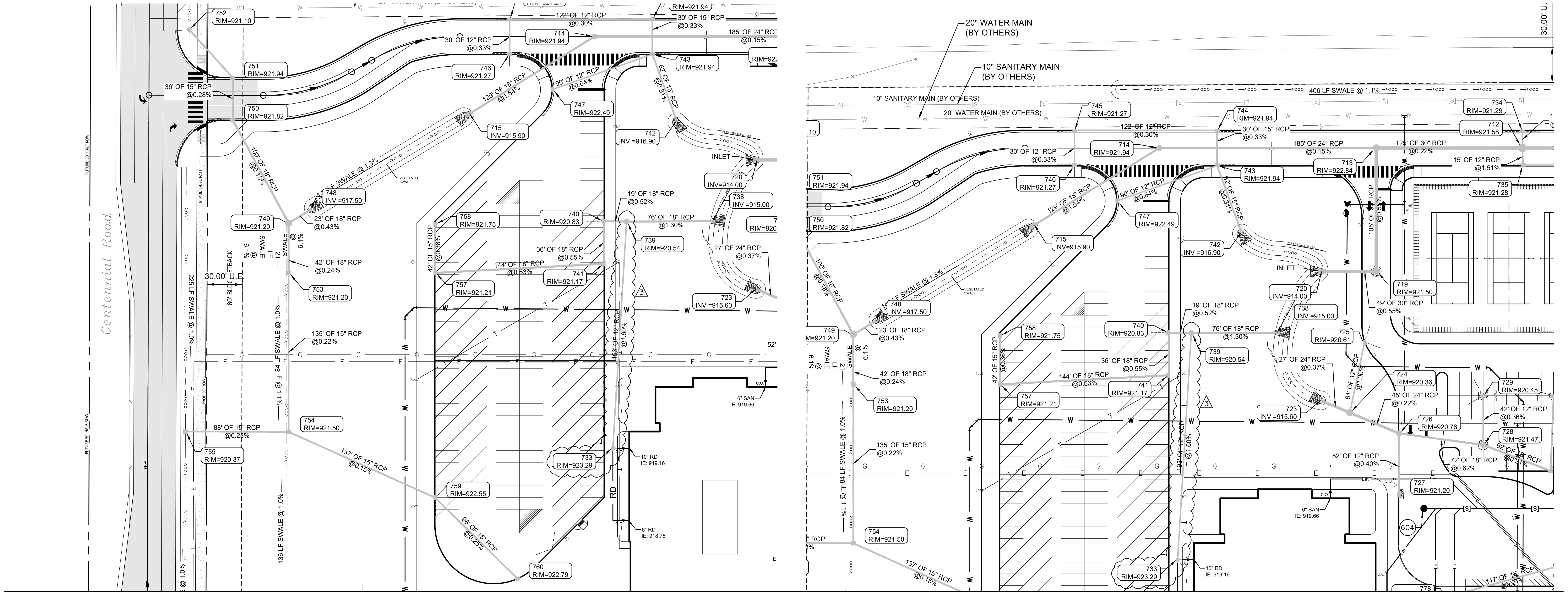
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
UTILITY PLAN

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

DRAWING NUMBER
C504

PROJECT NUMBER
2023061



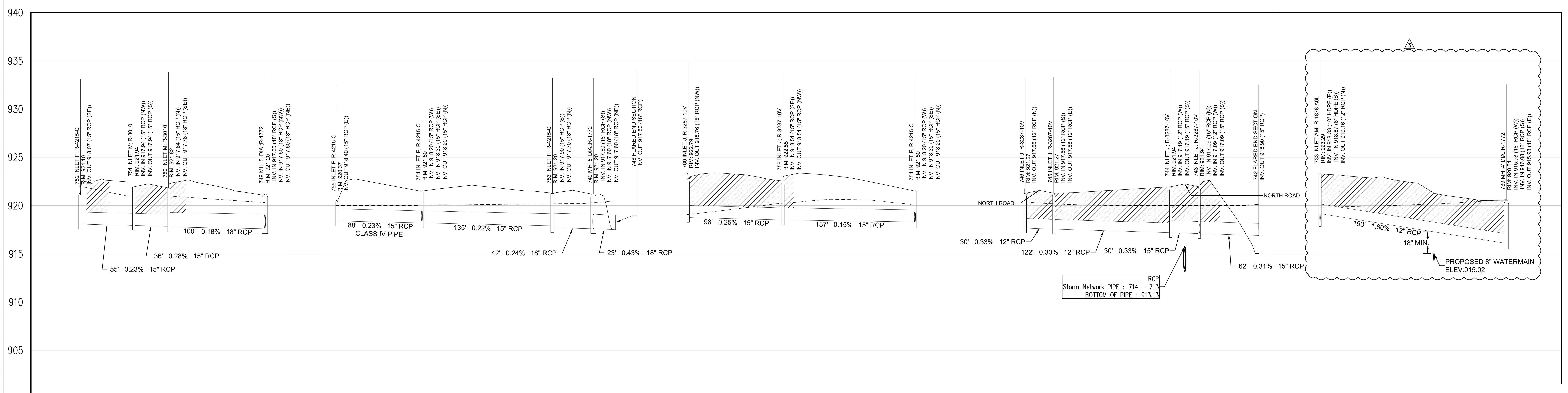
STORM SEWER PLAN

SCALE: 1" = 50'

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's below. Call before you dig.



LEGEND		
Existing Grade	New Grade	Granular Backfill

STORM SEWER PROFILE

SCALE: HORZ.: 1" = 50'
VERT.: 1" = 5'

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

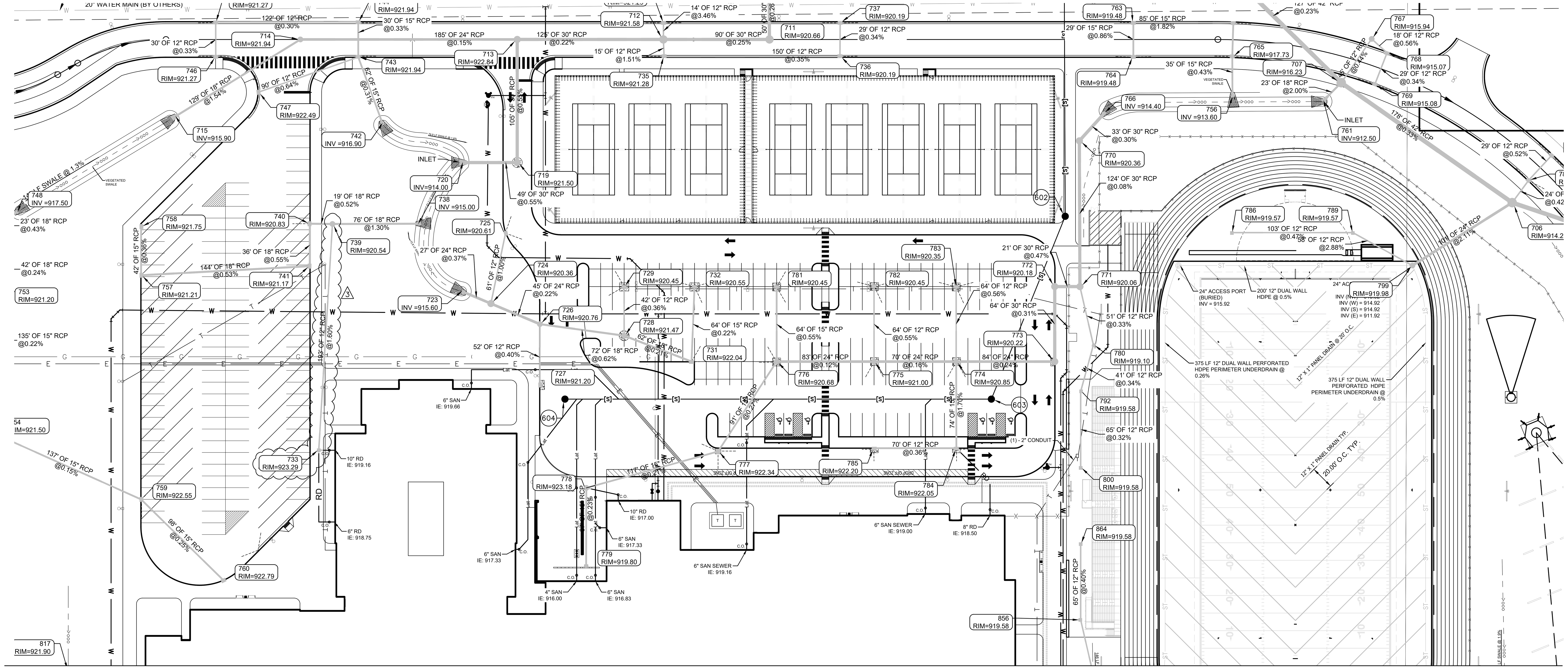
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C701

PROJECT NUMBER
2023061



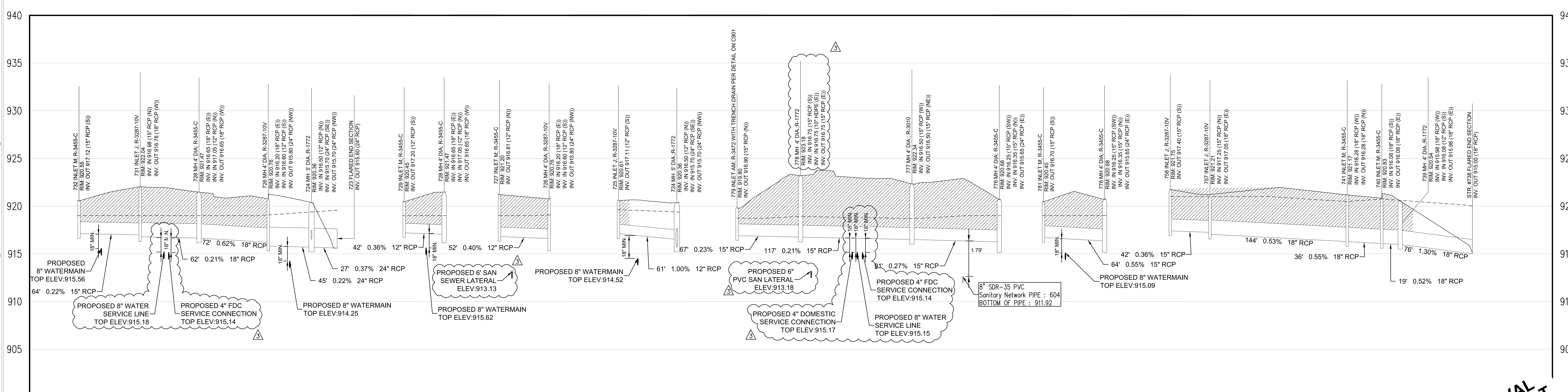
STORM SEWER PLAN

SCALE: 1" = 50'

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's below. Call before you dig.



STORM SEWER PROFILE

LEGEND		
Existing Grade	New Grade	Granular Backfill

SCALE: HORZ.: 1" = 50' VERT.: 1" = 5'

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
email: BHite@csoinc.net
317.848.7800
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

REVISIONS:		
2	ADDENDUM #2	06/17/2024
3	ADDENDUM #3	06/21/2024
4	ADDENDUM #4	06/26/2024

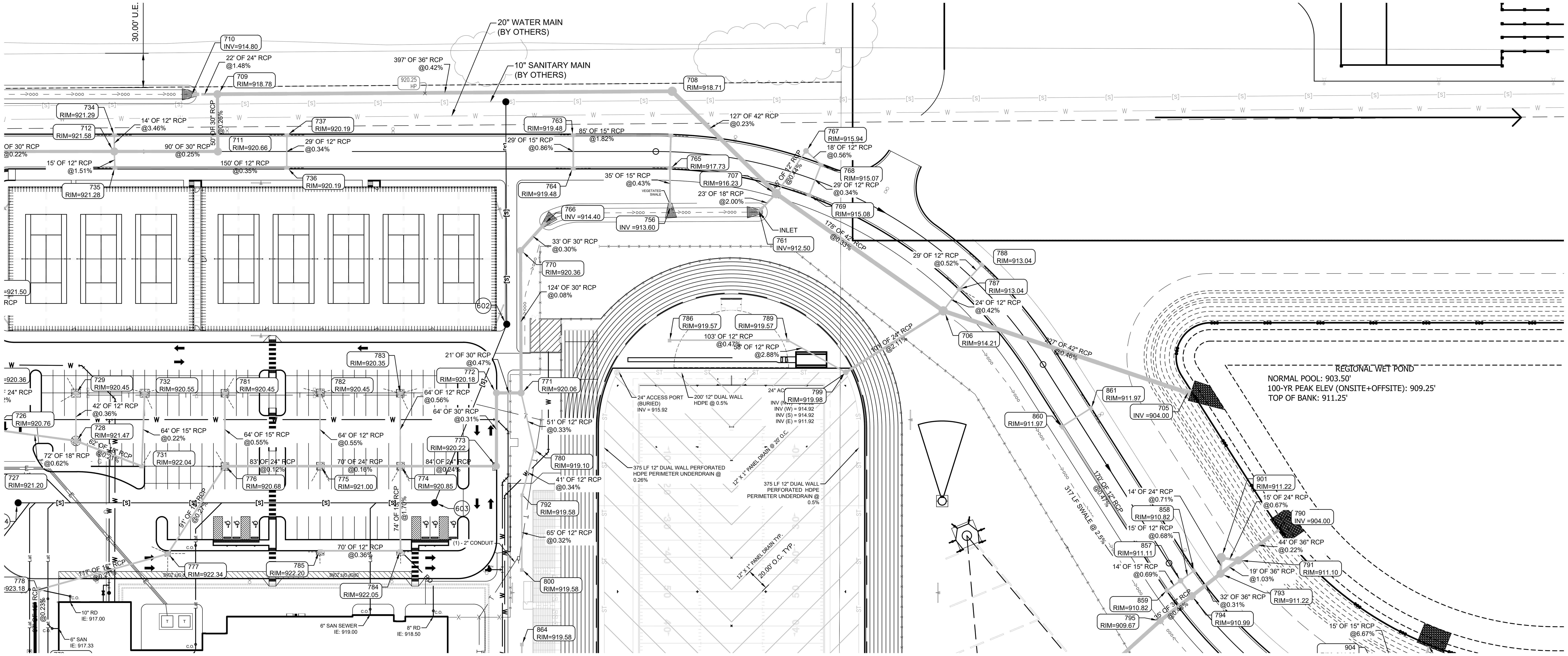
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

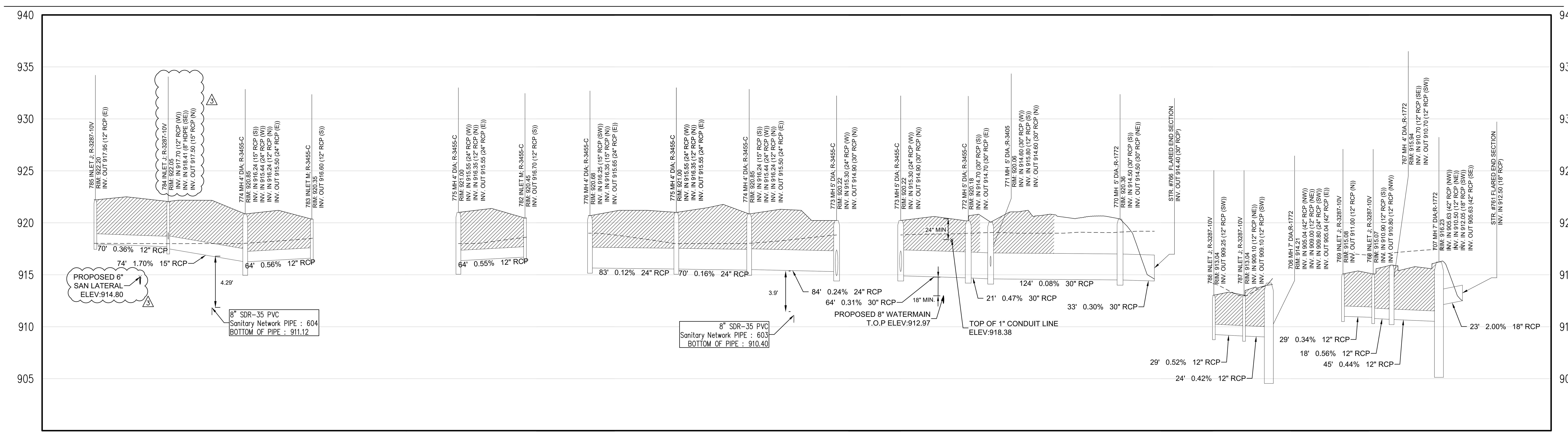
DRAWING NUMBER
C704

PROJECT NUMBER
2023061



SCALE: 1" = 50'

STORM SEWER PLAN



GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's below. Call before you dig.

LEGEND		
Existing Grade	New Grade	Granular Backfill

STORM SEWER PROFILE

SCALE: HORZ.: 1" = 50' VERT.: 1" = 5'

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
work (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

REVISIONS:

2	ADDENDUM #2	05/17/2024
3	ADDENDUM #3	06/21/2024
4	ADDENDUM #4	06/26/2024

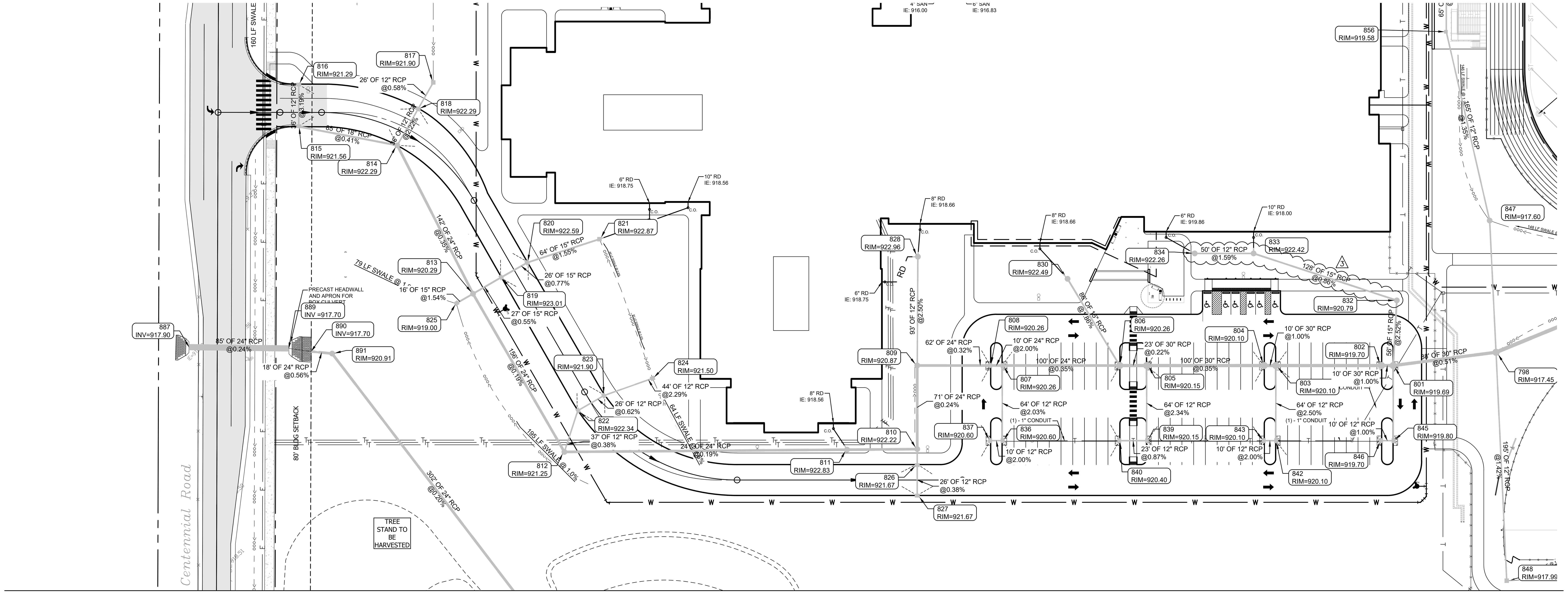
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

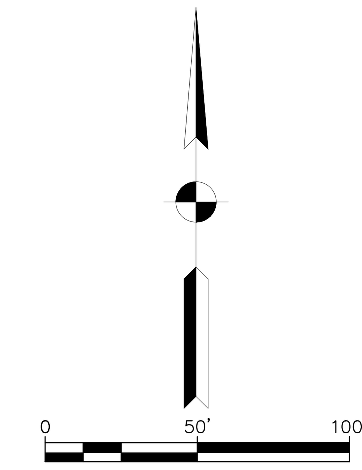
CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C705

PROJECT NUMBER
2023061



STORM SEWER PLAN

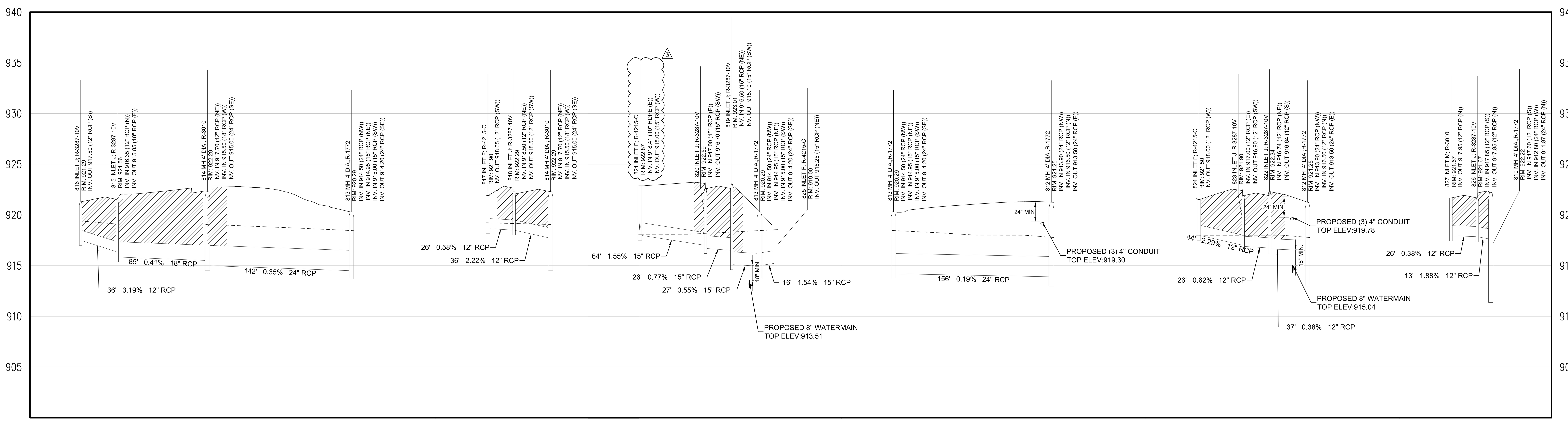


SCALE: 1" = 50'

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE 0.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's **below.** **Call** before you dig.



STORM SEWER PROFILE

LEGEND

Existing Grade	New Grade	Granular Backfill

SCALE: HORZ.: 1" = 50' / VERT.: 1" = 5'

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brett Hite
work: (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	06/17/2024
2	ADDENDUM #3	06/21/2024
3	ADDENDUM #4	06/26/2024

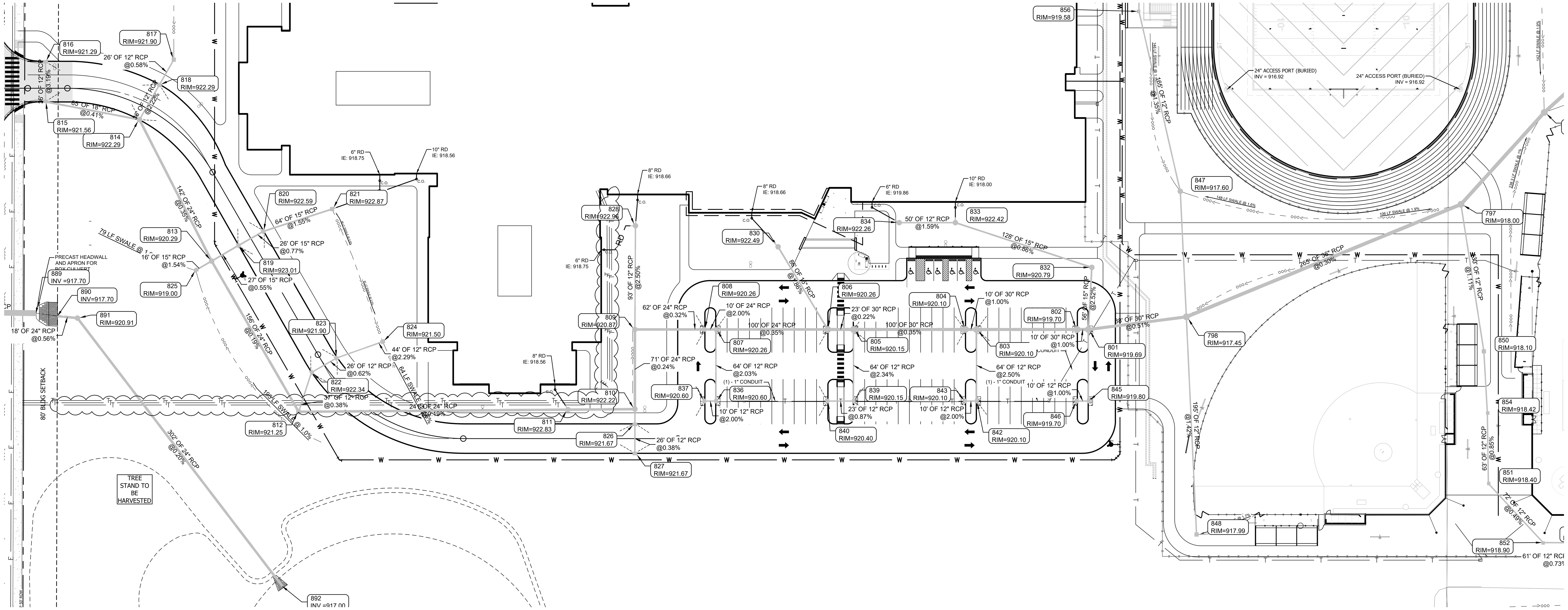
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C706

PROJECT NUMBER
2023061



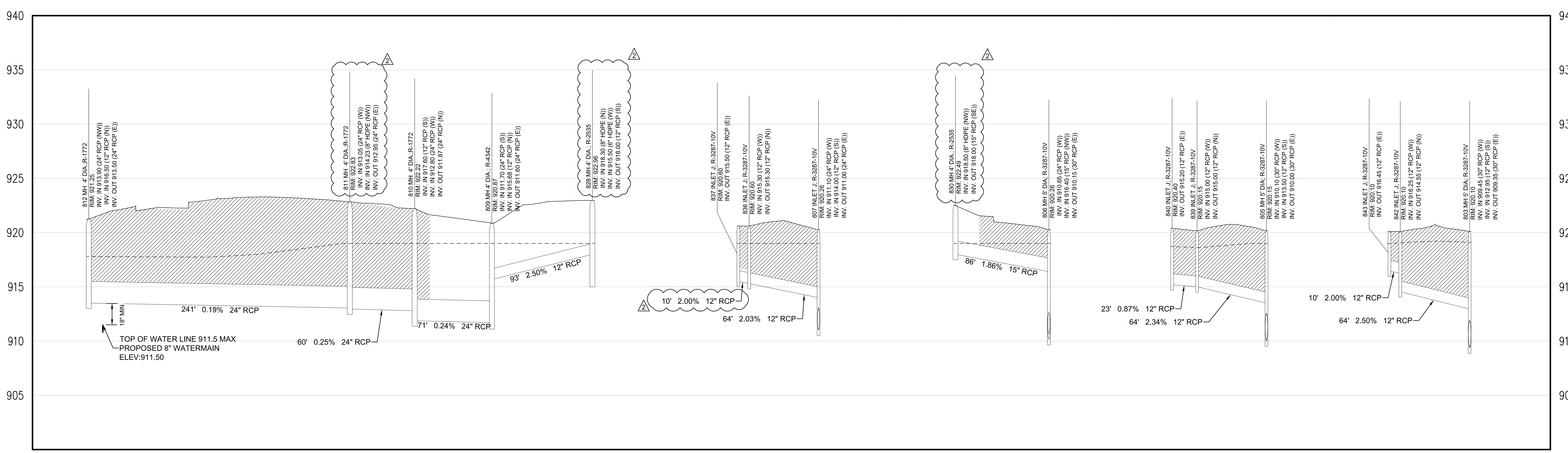
STORM SEWER PLAN

SCALE: 1" = 50'

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE 0.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's below. Call before you dig.



LEGEND		
Existing Grade	New Grade	Granular Backfill

STORM SEWER PROFILE

SCALE: HORZ.: 1" = 50' / VERT.: 1" = 5'

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brett Hite
work: (317) 848-7800
email: BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:		
1	ADDENDUM #2	06/17/2024
2	ADDENDUM #4	06/26/2024

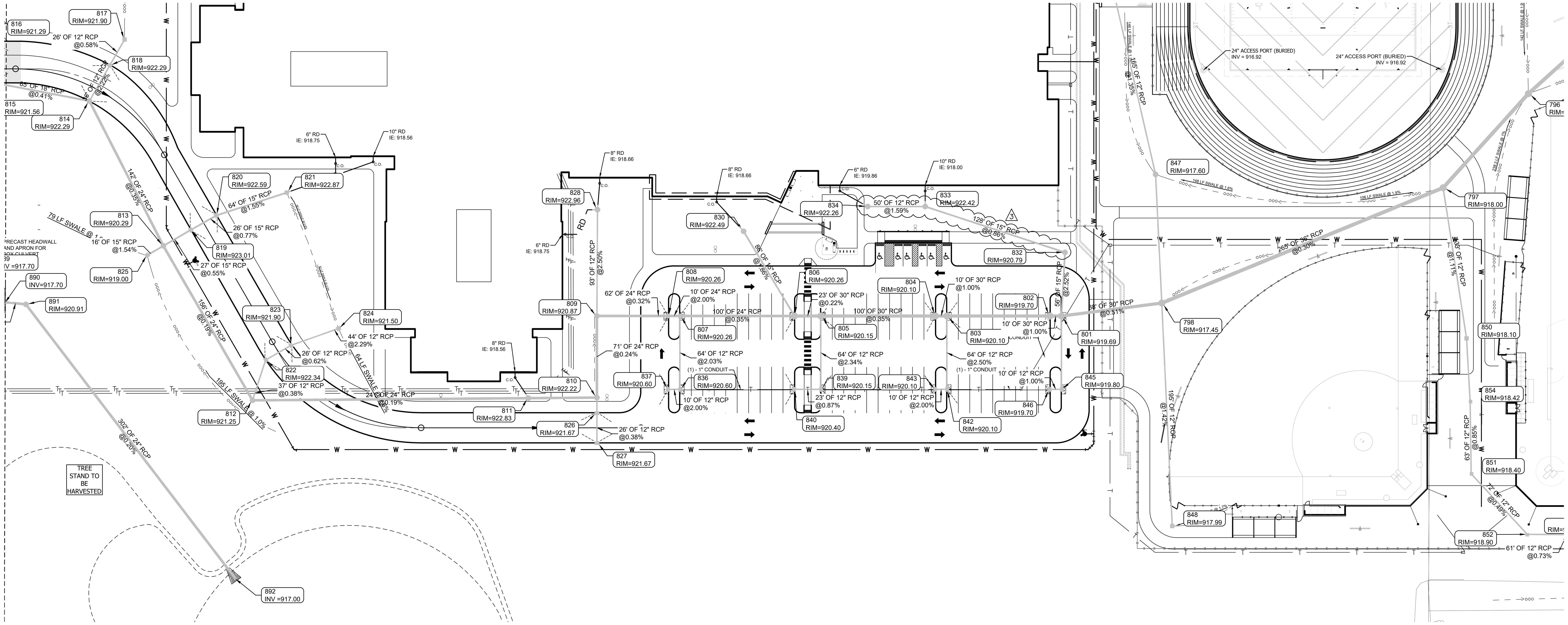
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

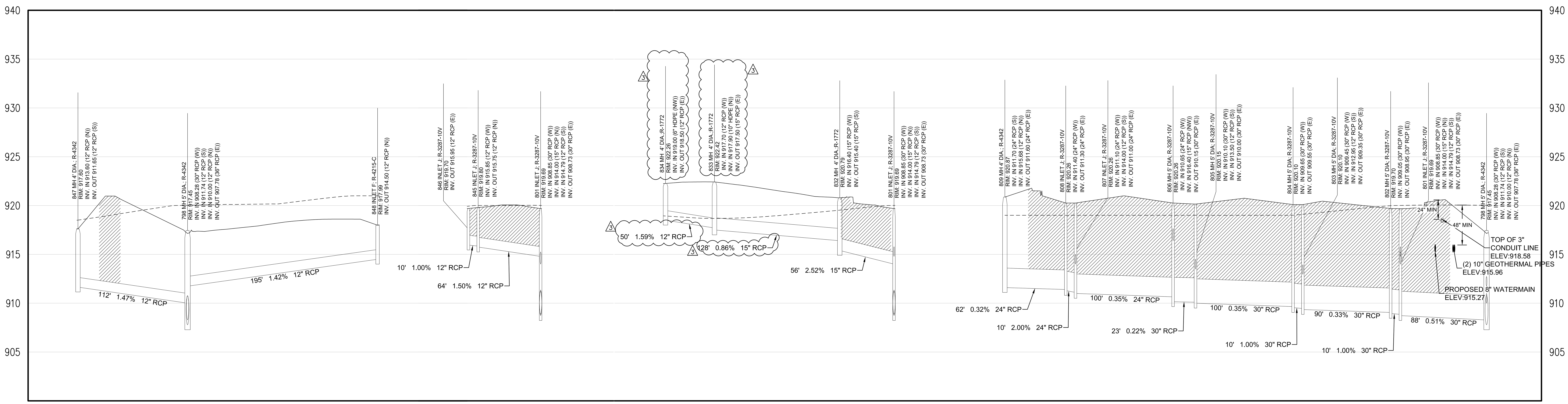
CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C707

PROJECT NUMBER
2023061



STORM SEWER PLAN



STORM SEWER PROFILE

LEGEND		
Existing Grade	New Grade	Granular Backfill

SCALE: HORZ.: 1" = 50'
VERT.: 1" = 5'

SCALE: 1" = 50'

GENERAL NOTES

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.

811 Know what's below. Call before you dig.

APPROVAL PENDING NOT FOR CONSTRUCTION

CSO
Brent Hite
email: BHite@csoinc.net
work: (317) 848-7800
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

REVISIONS:	
2 ADDENDUM #2	06/17/2024
3 ADDENDUM #3	06/21/2024
4 ADDENDUM #4	06/26/2024

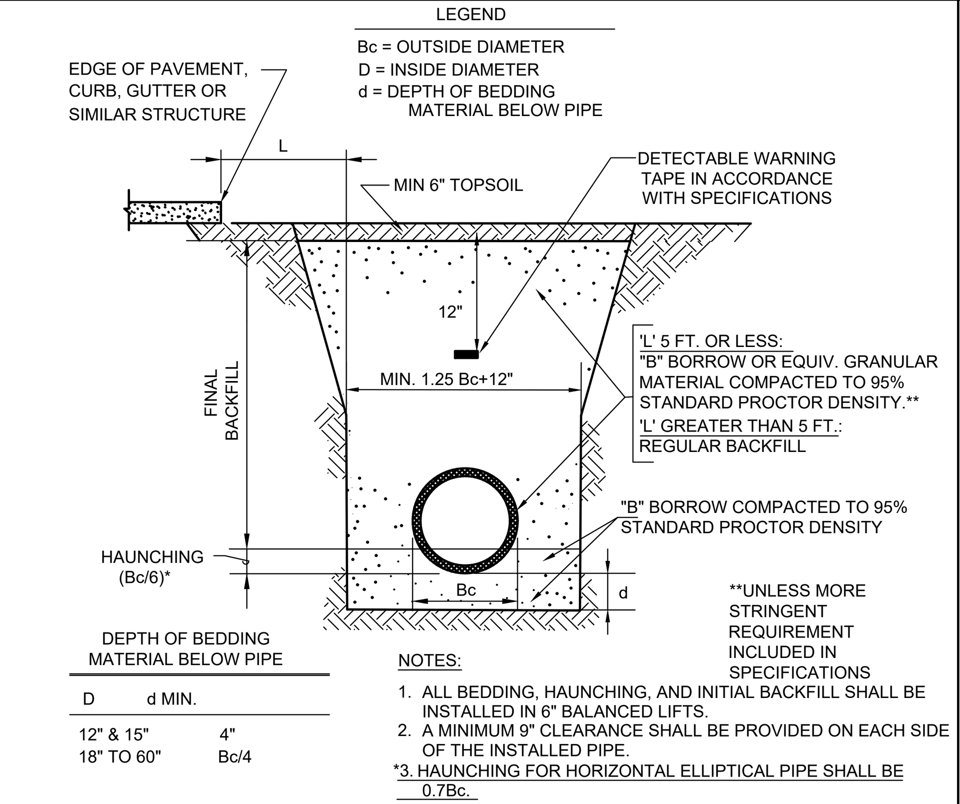
ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
STORM PLAN & PROFILE

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

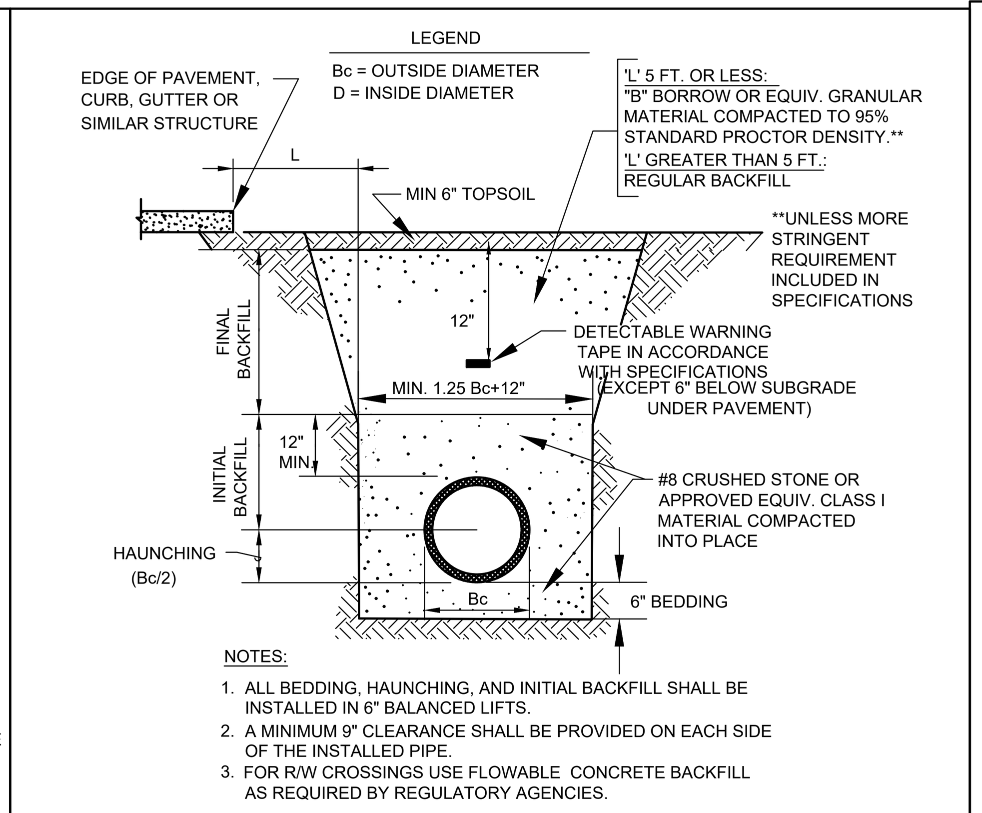
DRAWING NUMBER
C708

PROJECT NUMBER
2023061



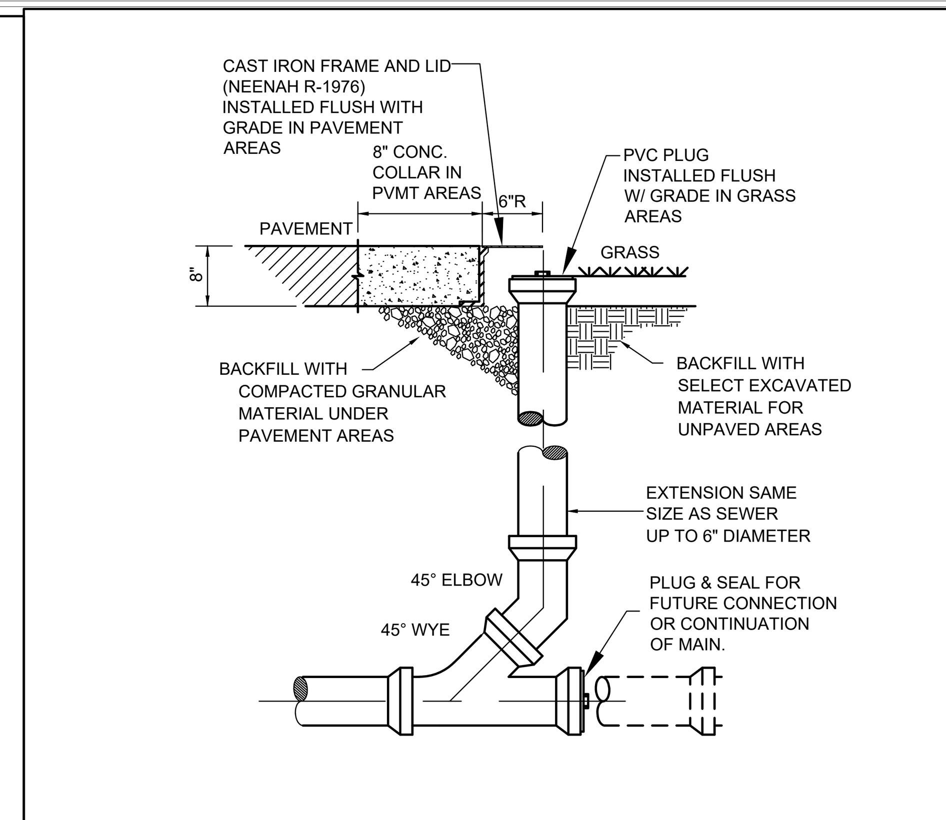
NOTES:
1. ALL BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" BALANCED LIFTS.
2. A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.
*3. HAUNCHING FOR HORIZONTAL ELLIPTICAL PIPE SHALL BE 0.7Bc.

1 REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL
SCALE: NONE

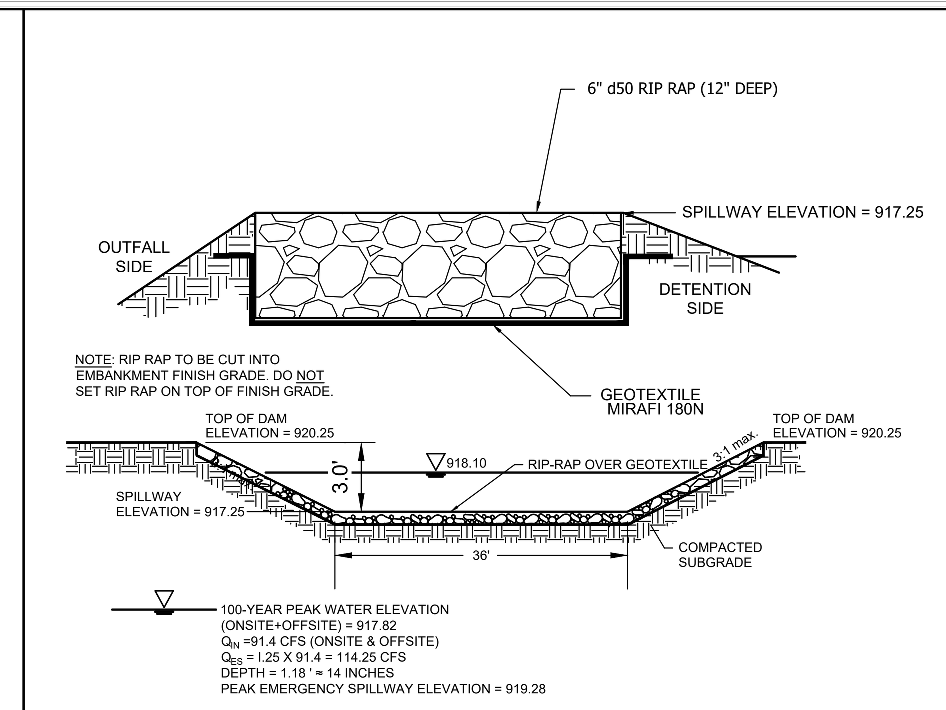


NOTES:
1. ALL BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" BALANCED LIFTS.
2. A MINIMUM 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.
3. FOR R/W CROSSINGS USE FLOWABLE CONCRETE BACKFILL AS REQUIRED BY REGULATORY AGENCIES.

2 PVC AND HDPE TRENCH DETAIL
SCALE: NONE



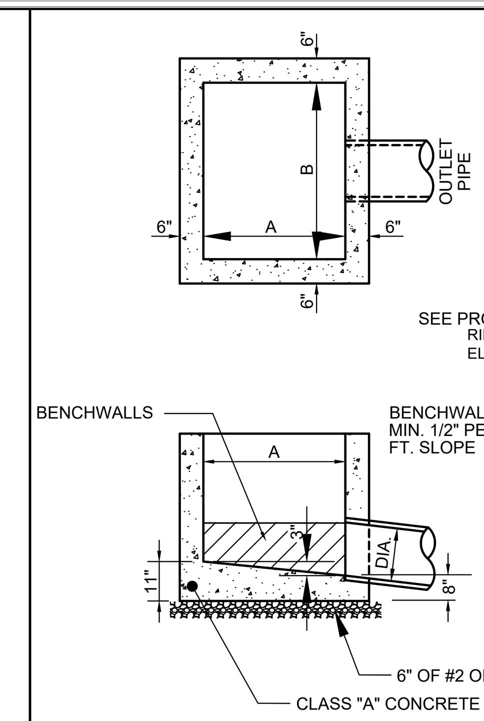
3 CLEANOUT (IN-LINE)
SCALE: NONE



4 SW DRY DETENTION SECONDARY OUTLET & EMERGENCY SPILLWAY WEIR

BOX INLET SCHEDULE				
INLET TYPE	A	B	MAX PIPE Ø	
TYPE A *	22"	22"	15"	15"
TYPE AM *	24"	24"	18"	18"
TYPE B	30"	46"	21"	21"
TYPE E,F *	30"	30"	21"	21"
TYPE J,M *	24"	36"	18"	27"
TYPE S,T	15"	61"	0"	36"

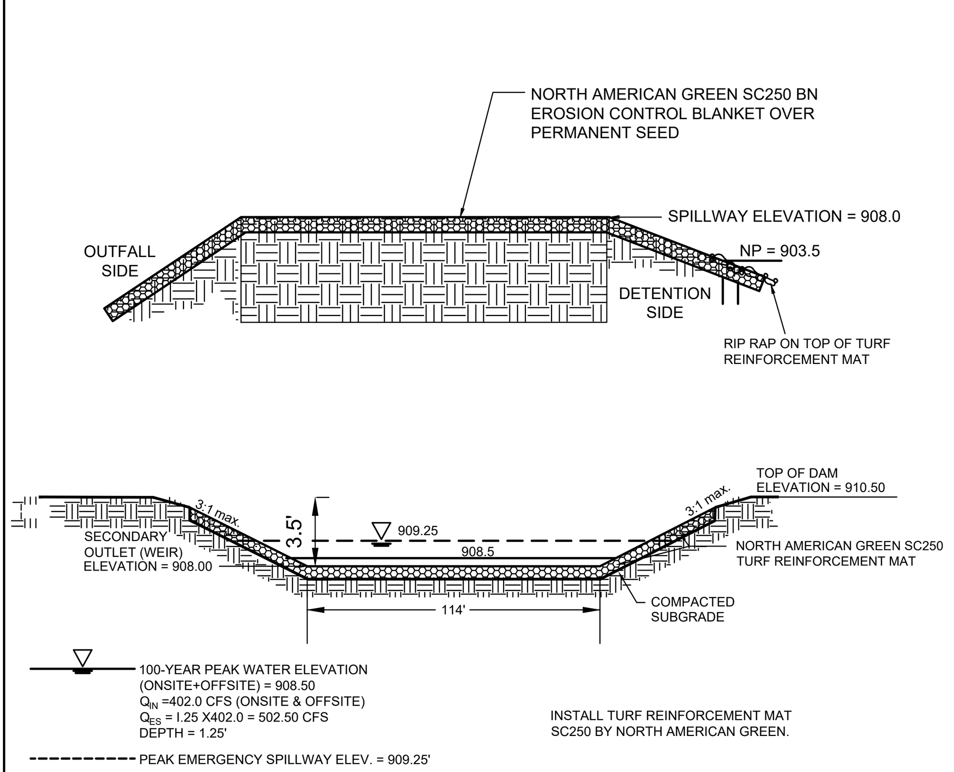
* -PRECAST ADJUSTING SECTIONS AVAILABLE



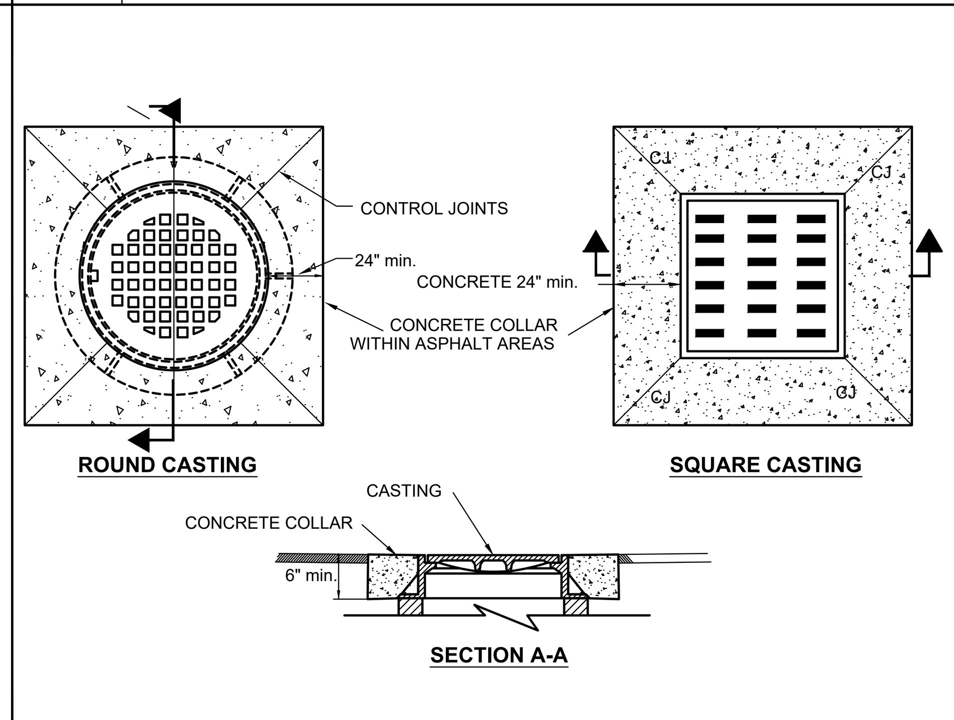
THE MAXIMUM ALLOWABLE DEPTH FOR TYPE A OR TYPE A MODIFIED BOX INLET IS 4' FROM THE CASTING TO THE LOWEST INVERT. WHERE DEPTH IS GREATER THAN 4', A MANHOLE STRUCTURE MUST BE INSTALLED.

BENCHWALLS SHALL FORM A DEFINED CHANNEL TO A MINIMUM HEIGHT OF 80% OF THE INSIDE DIAMETER OF THE INLET AND OUT PIPES.

5 BOX INLET DETAIL

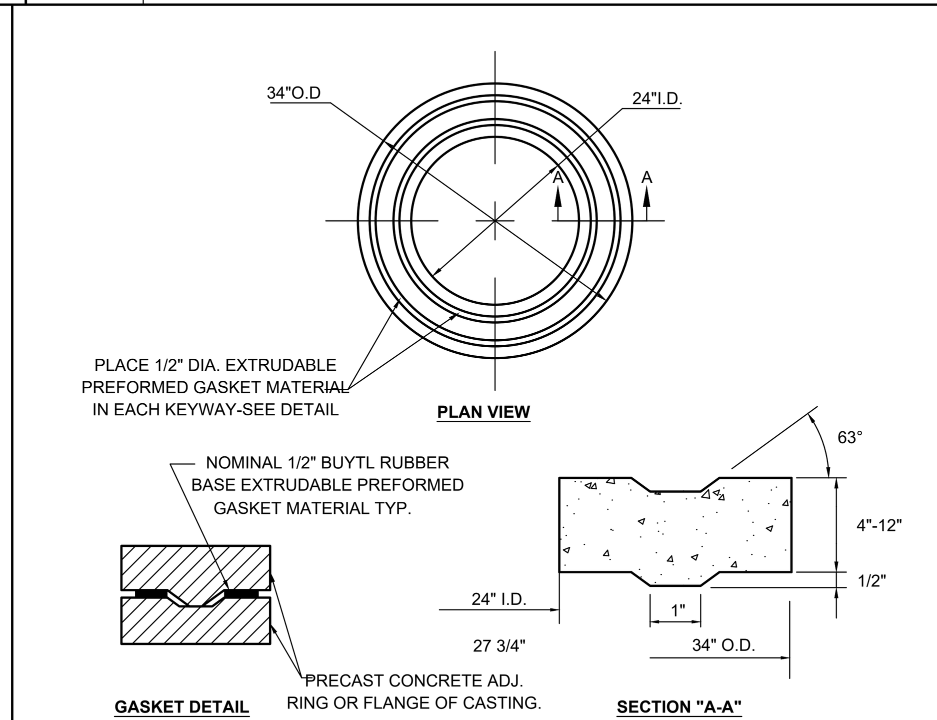


6 REGIONAL WET DETENTION SECONDARY OUTLET WEIR AND EMERGENCY SPILLWAY

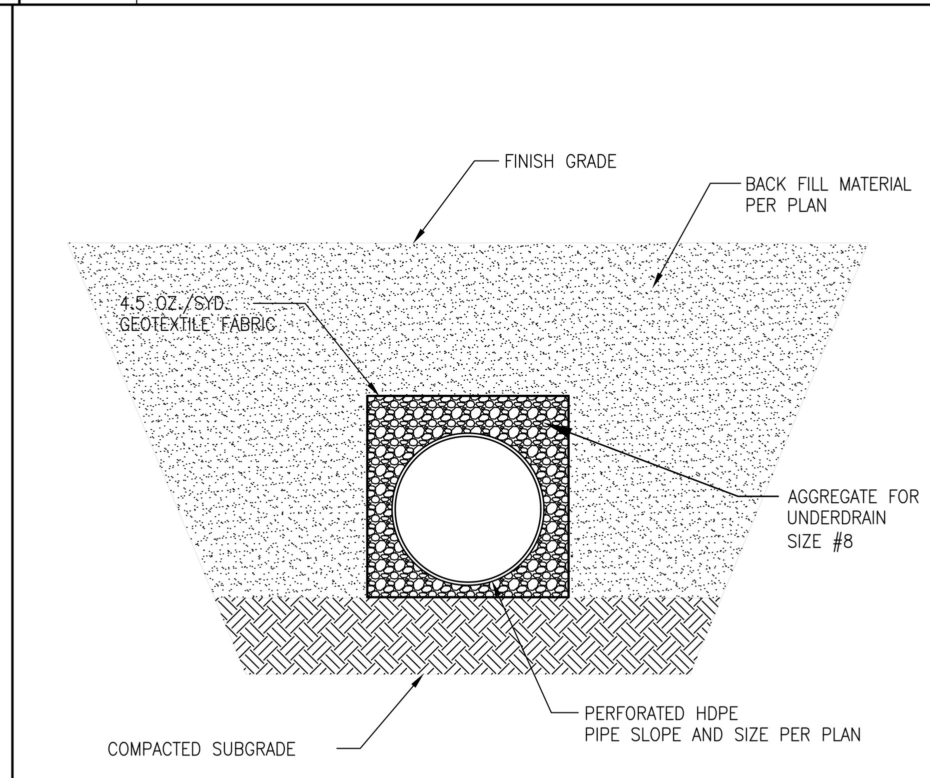


NOTES:
1. ALL INLET CASTINGS SHALL HAVE "NO DUMPING DRAINS TO STREAM" AND A FISH SYMBOL CAST INTO TOP OF CASTING.

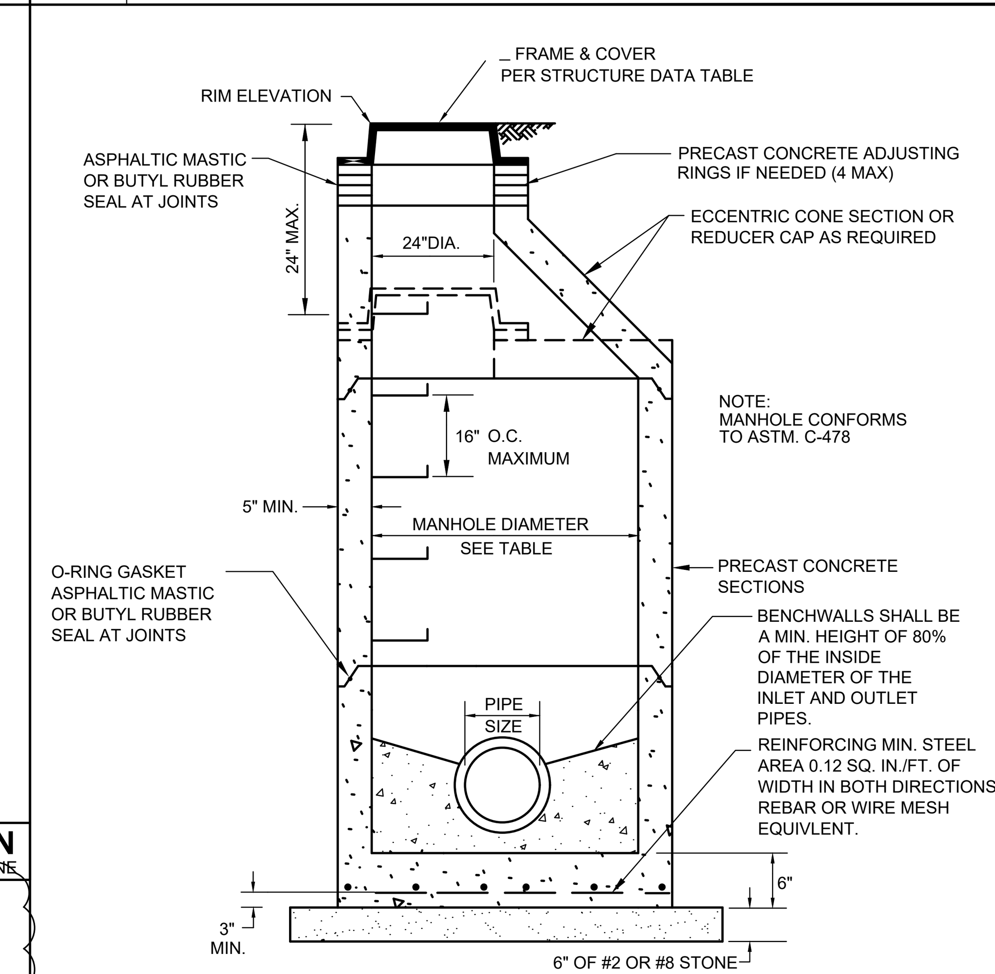
7 CONCRETE COLLAR FOR CASTINGS IN PARKING LOTS
SCALE: NONE



8 PRECAST CONCRETE ADJUSTING RING
SCALE: NONE



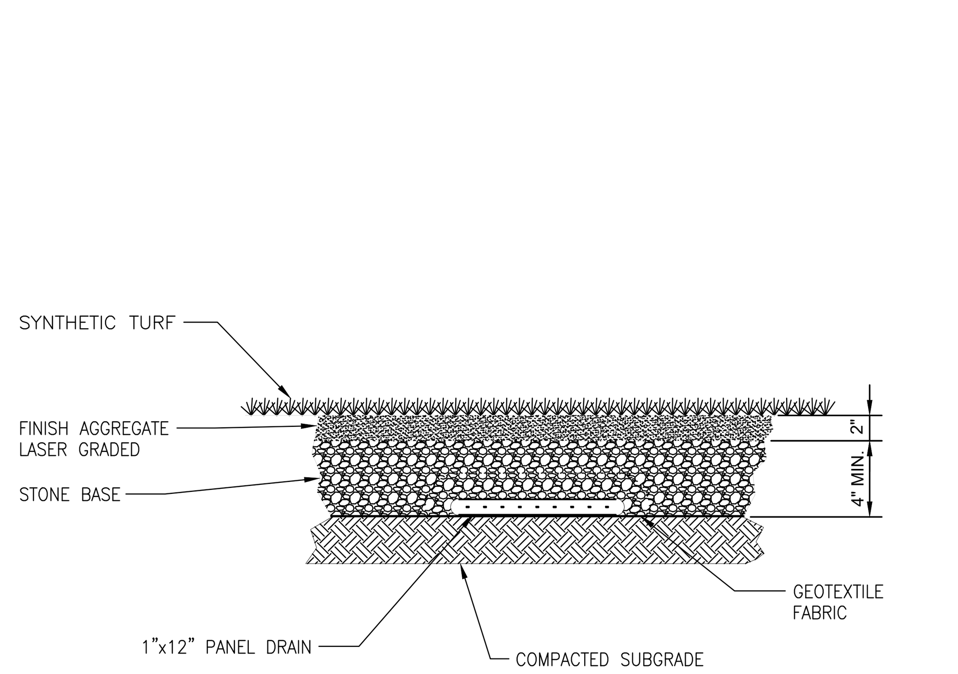
9 FOOTBALL FIELD PERFORATED HDPE INSTALLATION
SCALE: NONE



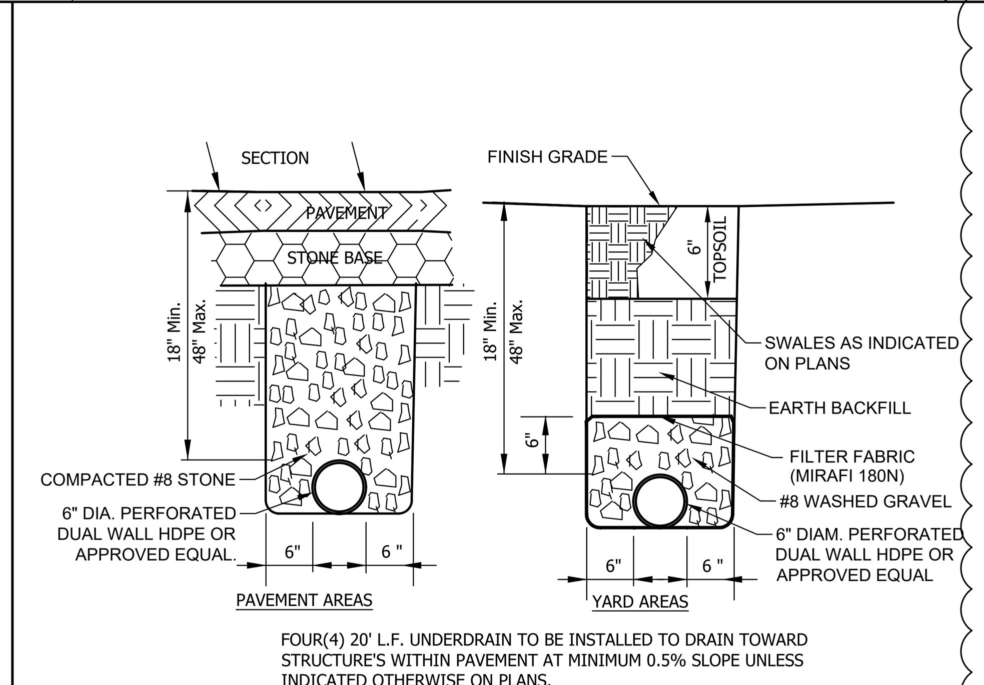
NOTE: MANHOLE STEPS SHALL BE POLYPROPYLENE, POLYPROPYLENE COATED STEEL REINFORCING OR AN APPROVED NON-CORROSIVE FIBERGLASS MATERIAL. THE COPOLYMER POLYPROPYLENE SHALL MEET THE REQUIREMENTS OF ASTM D-4101 REINFORCED WITH DEFORMED 3/8 INCH MINIMUM DIAMETER REINFORCING STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. NON-COATED CAST IRON STEPS ARE NOT ACCEPTABLE.

PIPE SIZE	MANHOLE DIAMETERS PIPES ENTERING/LEAVING AT 0°-45° BEND	45°-90° BEND
8"-21"	48"	48"
24"	48"	60"
27"-30"	60"	60"
33"-36"	60"	72"
PIPE SIZE	PIPE TURNS	MANHOLE DIA.
24"-33"	> THAN 45°-90°	60"
33"-36"	STRAIGHT THRU	60"
42"-48"	UP TO 45°	72"
42"	> THAN 45°-90°	84"
48"	UP TO 45°	84"
48"	> THAN 45°-90°	96"
54"-66"	UP TO 60°	96"

13 STANDARD STORM SEWER MANHOLE
SCALE: NONE

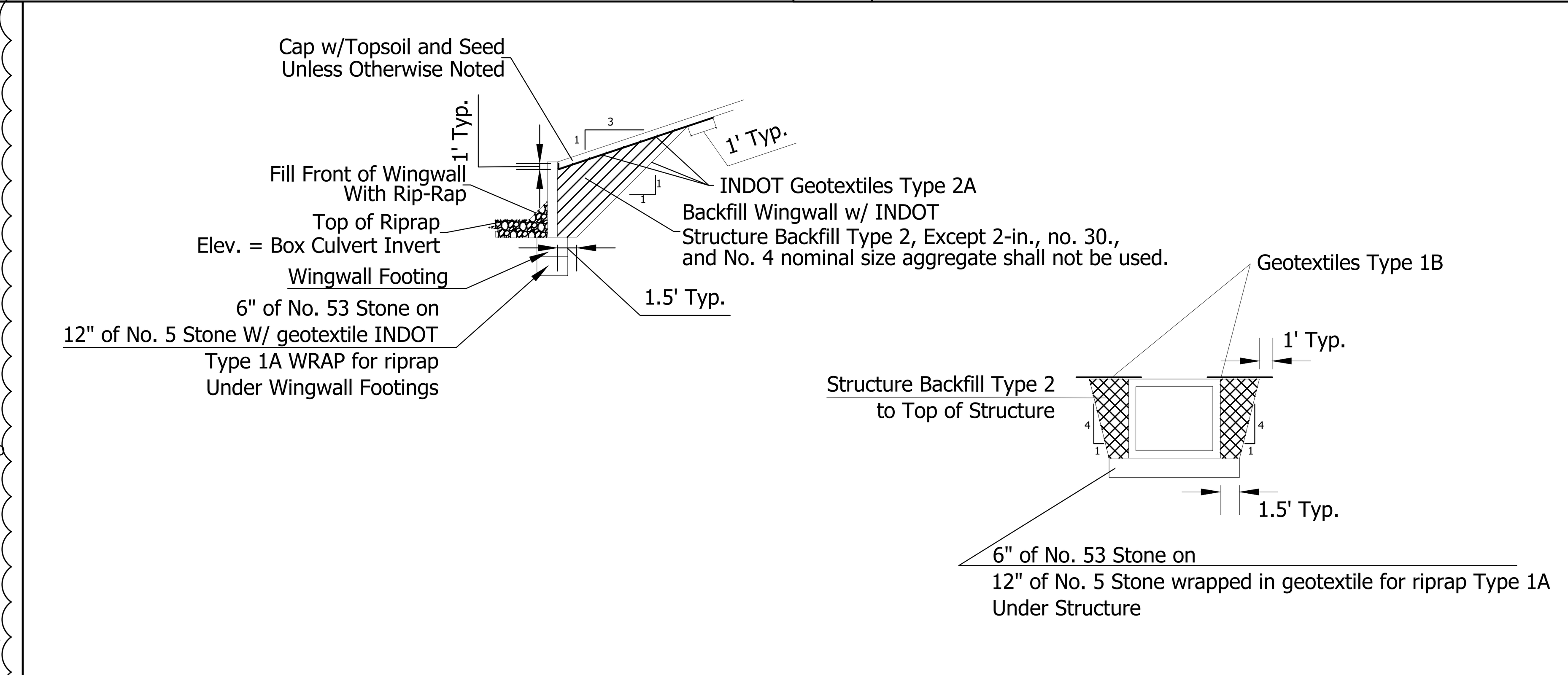


10 PANEL DRAIN INSTALLATION
SCALE: NONE

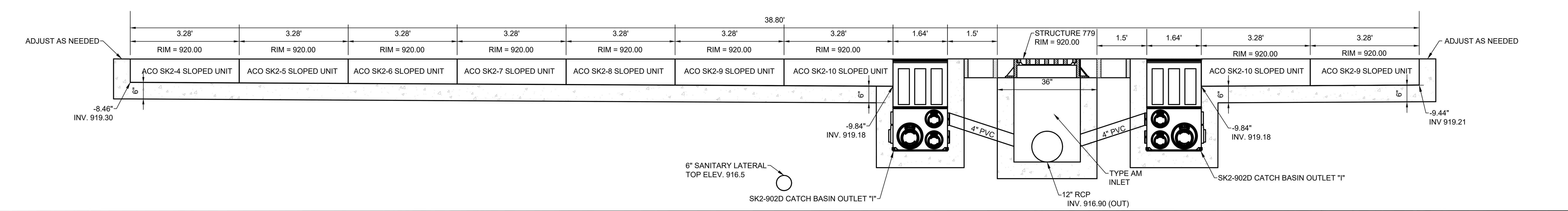


FOUR(4) 20' L.F. UNDERDRAIN TO BE INSTALLED TO DRAIN TOWARD STRUCTURE'S WITHIN PAVEMENT AT MINIMUM 0.5% SLOPE UNLESS INDICATED OTHERWISE ON PLANS.

11 SUBSURFACE DRAIN DETAIL



12 BOX CULVERT WINGWALL BACKFILL & SCOUR PROTECTION DETAIL



14 ACO S200K POWER TRENCH DRAIN DETAIL
SCALE: NONE

Z:\2023\23061-CONTEXT, NEW WESTFIELD MIDDLE SCHOOL-WEST\DWGS\C901 SITE DETAILS.DWG plotted by STEVEN O'ROURKE on 6/26/2024 4:12:19 PM last saved by SOROURKE on 6/26/2024 4:06:57 PM
Xrefs: X3042AE.DWG & XC-8 STD CCW PCS ACAD.DWG & XC-3 STD CCW PCS ACAD.DWG

CSO
Brent Hite
work 317.848.7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	06/17/2024
3	ADDENDUM #3	06/21/2024
4	ADDENDUM #4	06/26/2024

ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

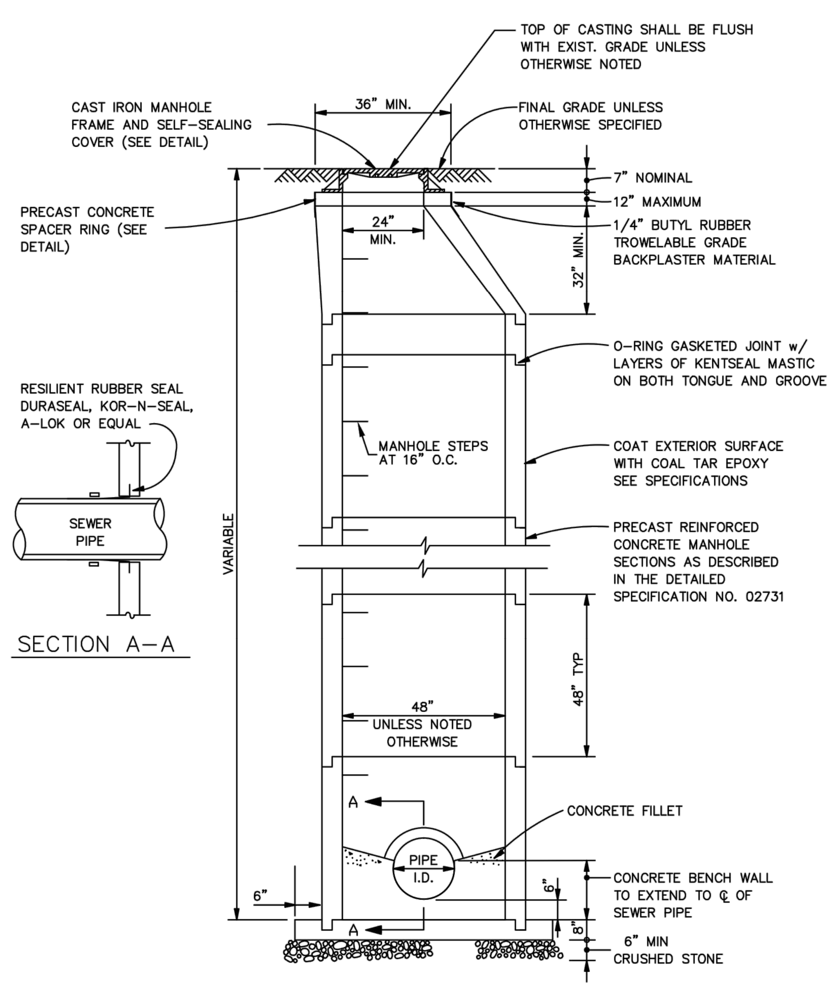
DRAWING TITLE:
SITE DETAILS

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER
Karen Collins

APPROVAL PENDING NOT FOR CONSTRUCTION

DRAWING NUMBER
C901

PROJECT NUMBER
2023061



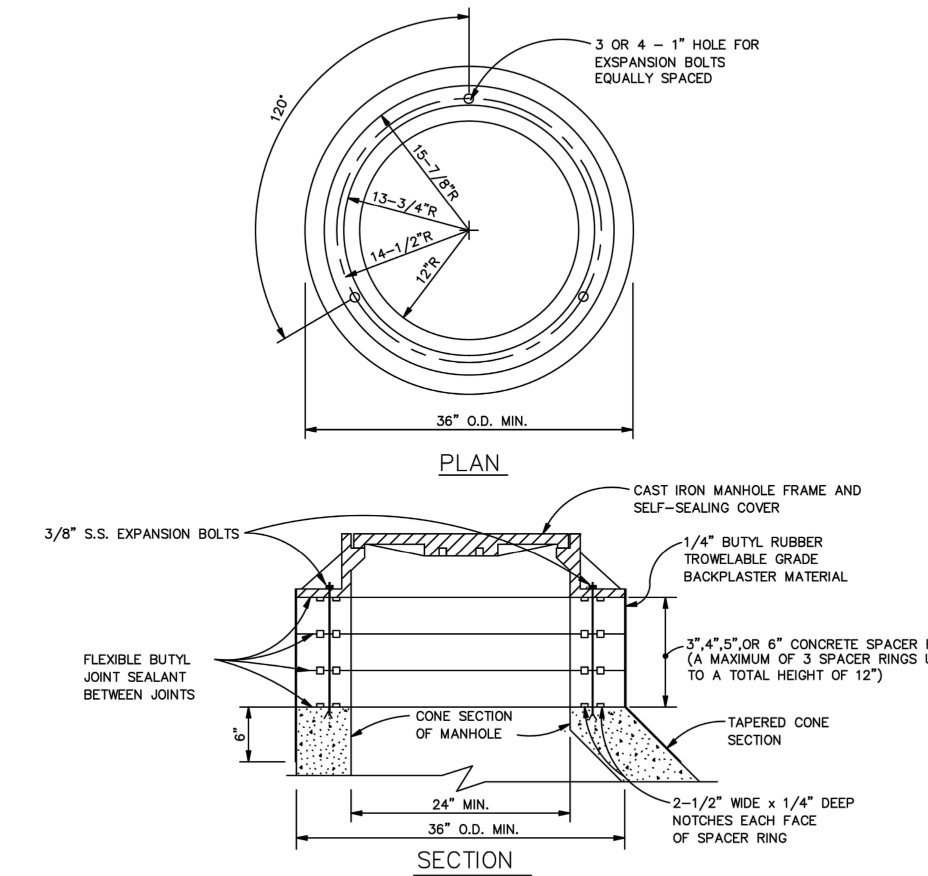
STANDARD SANITARY MANHOLE DETAIL

CITY OF Westfield INDIANA

NEIL B. VANTREES REGISTERED No. 10809092 STATE OF INDIANA PROFESSIONAL ENGINEER

CITY OF WESTFIELD, INDIANA

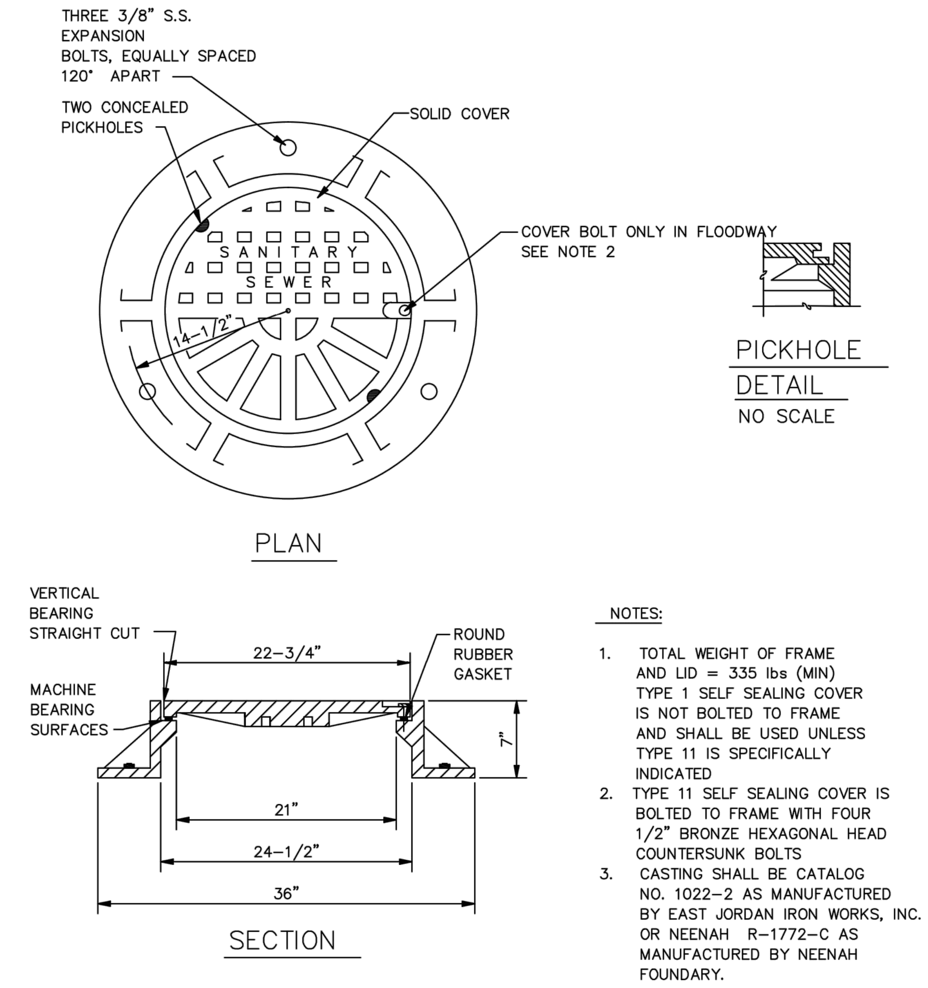
4/1/14 DATE FIGURE S-1



STANDARD SANITARY MANHOLE SPACER RING DETAIL

TOWN OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE S-2



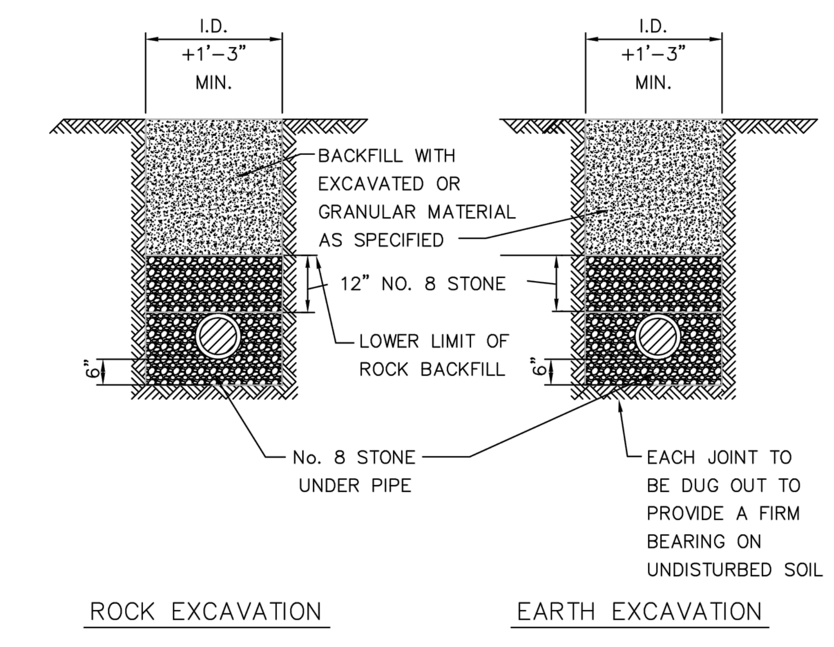
NOTES:

1. TOTAL WEIGHT OF FRAME AND LID = 335 lbs (MIN) TYPE 1 SELF SEALING COVER IS NOT BOLTED TO FRAME AND SHALL BE USED UNLESS TYPE 11 IS SPECIFICALLY INDICATED
2. TYPE 11 SELF SEALING COVER IS BOLTED TO FRAME WITH FOUR 1/2" BRONZE HEXAGONAL HEAD COUNTERSUNK BOLTS
3. CASTING SHALL BE CATALOG NO. 1022-2 AS MANUFACTURED BY EAST JORDAN IRON WORKS, INC. OR NEENAH R-1772-C AS MANUFACTURED BY NEENAH FOUNDARY.

STANDARD SANITARY MANHOLE FRAME AND COVER DETAILS

CITY OF WESTFIELD, INDIANA

4/1/14 DATE FIGURE S-3



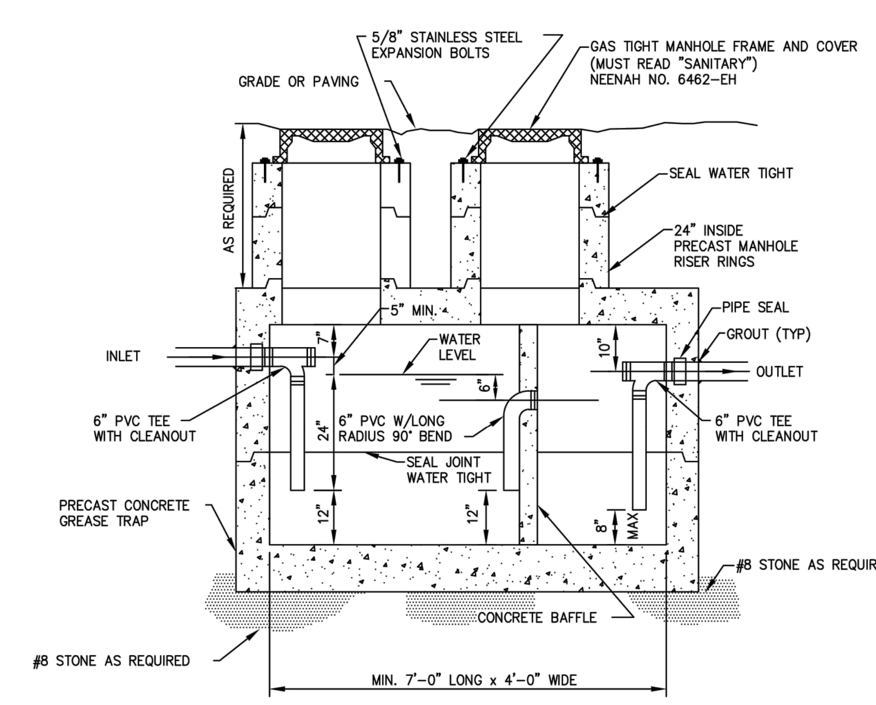
NOTES:
THIS DETAIL SHALL APPLY TO ALL SANITARY SEWER PIPE
ALL STONE TO BE INDOT CLASS 1 STONE

SEWER PIPE BEDDING DETAIL

CITY OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE S-5

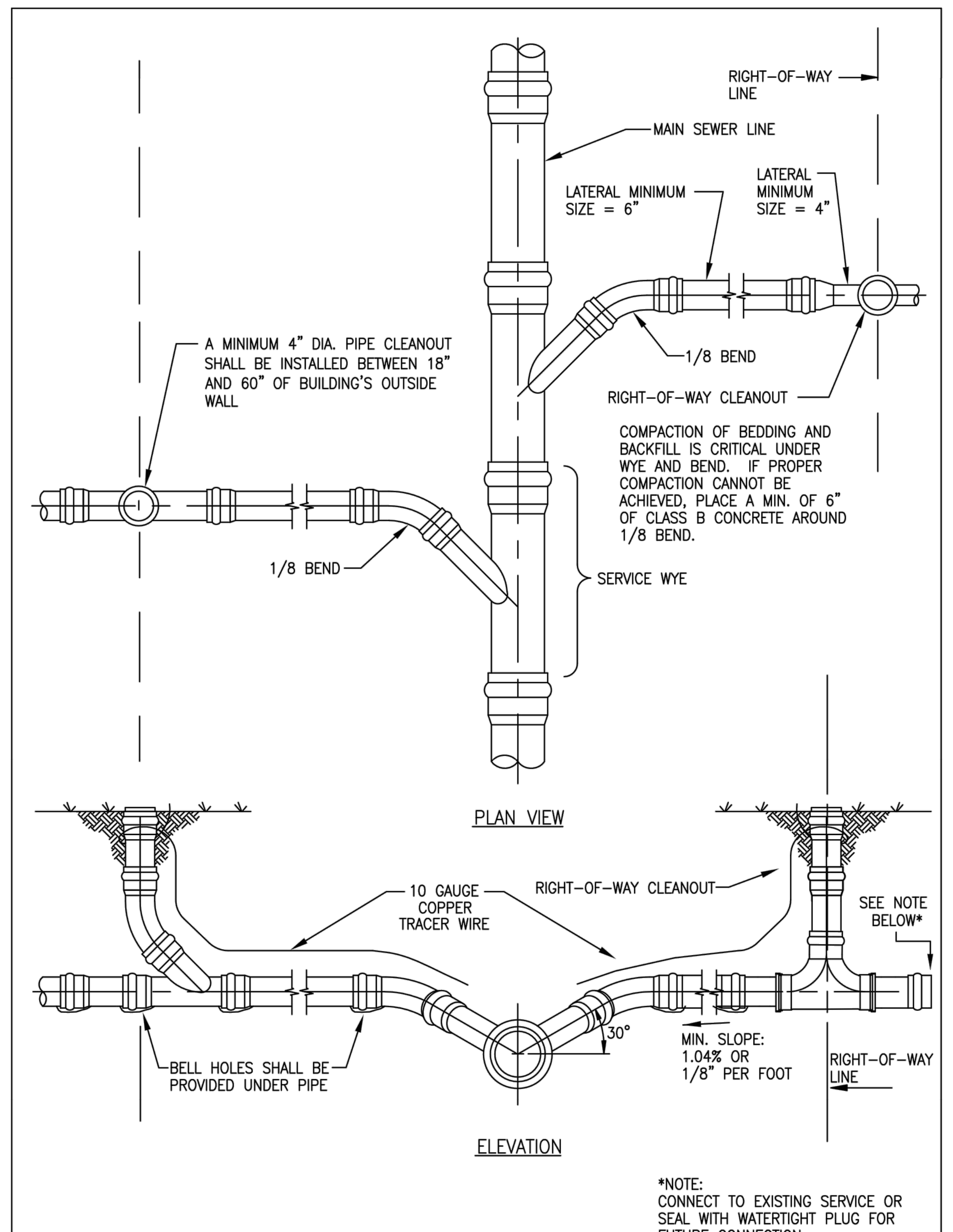
GENERAL NOTES
1. ALL TANK JOINTS SHALL BE SEALED WATERTIGHT WITH BUTYL RUBBER EXTRUDIBLE PREFORMED GASKET MATERIAL, HAMILTON KENT-SEAL OR EQUAL.
2. ALL OUTSIDE RISER RINGS SURFACES SHALL BE WATERPROFFED ⅜" WITH TROWELABLE GRADE BUTYL RUBBER BACK PLASTER.
3. PIPE SEALS SHALL BE TUF-TITE, POLYLOK, OR EQUAL.



GREASE TRAP DETAIL

CITY OF WESTFIELD, INDIANA

4/1/14 DATE FIGURE S-14



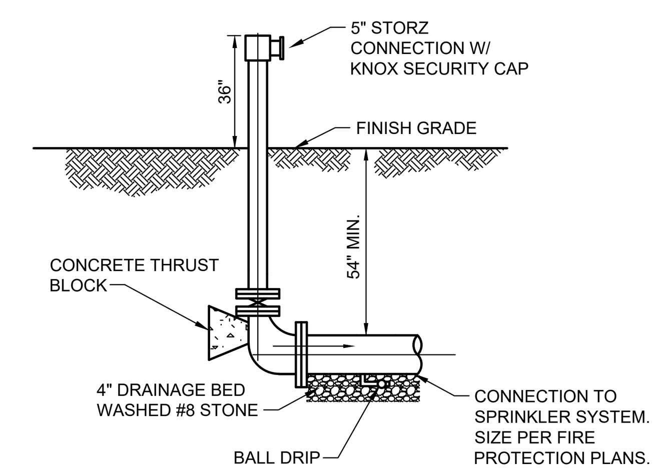
*NOTE:
CONNECT TO EXISTING SERVICE OR SEAL WITH WATERTIGHT PLUG FOR FUTURE CONNECTION.

NOT TO SCALE

CITIZENS ENERGY GROUP

SERVICE CONNECTION FOR SHALLOW SEWERS (Less than 15' deep)

FIGURE 400.05



COORDINATE W/ WESTFIELD FIRE DEPARTMENT

WA-16A FIRE DEPARTMENT CONNECTION DETAIL

SCALE: NONE

APPROVAL PENDING NOT FOR CONSTRUCTION

Z:\2023\23061-CONTEXT, NEW WESTFIELD MIDDLE SCHOOL-WEST\DWGS\C901 SITE DETAILS.DWG plotted by STEVEN O'ROURKE on 6/26/2024 4:16:40 PM last saved by SOROURKE on 6/26/2024 4:06:57 PM
Xrefs: X30424E.DWG & XC-8 STD CCW PCS ACAD.DWG & XC-3 STD CCW PCS ACAD.DWG

W

CSO

Brent Hite
work (317) 848-7800
email BHite@csoinc.net
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net

A&F ENGINEERING
Transportation & Site Engineering
Creating Order Since 1966

PROJECT:
WESTFIELD WASHINGTON SCHOOLS
WESTFIELD MIDDLE SCHOOL WEST
EARLY SITE PACKAGE
17707 CENTENNIAL RD, WESTFIELD, IN 46074

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

2	ADDENDUM #2	06/17/2024
3	ADDENDUM #3	06/21/2024
4	ADDENDUM #4	06/26/2024

ISSUE DATE	DRAWN BY	CHECKED BY
05/20/24	SO	KC

DRAWING TITLE:
SITE DETAILS

CERTIFIED BY:
KAREN K. COLLINS REGISTERED No. 10404538 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING NUMBER
C907

PROJECT NUMBER
2023061