

- ### KEYNOTES
- A. SAWCUT ASPHALT ROAD
 - B. SAWCUT AND REMOVE CURB AND GUTTER TO NEAREST JOINT LINE
 - C. PROTECT LANDSCAPING
 - D. SAWCUT AND REMOVE CONCRETE SIDEWALK TO NEAREST JOINT LINE
 - E. REMOVE AND RESET TRAFFIC SIGN
 - F. PROTECT INLET AND PIPE
 - G. NOT USED
 - H. REMOVE VEGETATION

- ### DEMOLITION LEGEND
- CONCRETE CURB & GUTTER
 - SAWCUT PAVEMENT
 - REMOVE UTILITY
 - REMOVE ASPHALT
 - REMOVE CONCRETE
 - REMOVE VEGETATION AS NECESSARY FOR CONSTRUCTION
 - OBJECT TO BE PROTECTED

EXISTING LEGEND

SYMBOL	DESCRIPTION
— / —	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊠	TELE/FIBER OPTIC/GAS MARKER
⊙	GAS METER / VALVE
□	CLEAN-OUT
⊠	ELEC. METER BOX/TRANSFORMER
⊠	ELEC. / TELEPHONE PEDESTAL
⊠	GUARD POST/POST WITH LIGHT
⊠	AIR CONDITIONER / GENERATOR
⊠	MAGNAIL SET/FOUND
⊠	REBAR SET/FOUND
⊠	SQUARE / ROUND / CURB INLET
⊠	TRAFFIC/COMBO/ POWER POLE
⊠	LIGHT POLE - SQUARE / ROUND
⊠	CONIFEROUS TREE & SIZE
⊠	DECIDUOUS TREE & SIZE
⊠	DRAINAGE /SANITARY MANHOLE
⊠	COMBINATION/MISC. LID MANHOLE
⊠	BEEHIVE ROUND/SQUARE INLET
⊠	GUY WIRE / GROUND LIGHT
⊠	UNDG. WATER LINE
⊠	UNDG. GAS LINE
⊠	UNDG. TELEPHONE LINE
⊠	UNDG. ELECTRIC LINE
⊠	OVERHEAD ELE. & TEL
⊠	OVERHEAD ELE TEL & CAB
⊠	OVERHEAD ELECTRIC
⊠	vitrified clay pipe
⊠	reinforced concrete pipe
⊠	polyethylene coated pipe
⊠	high-density polyethylene pipe
⊠	ductile iron pipe

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

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

GENERAL NOTES

1. THE DEMOLITION PLAN IS BASED ON INFORMATION PROVIDED ON THE TOPOGRAPHIC SURVEY. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COMPARING THE DOCUMENTS TO THE FIELD CONDITIONS. IF DISCREPANCIES OCCUR, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING STRUCTURES, STONE, CONCRETE AND PAVEMENT OFF SITE UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A MONUMENT IS MOVED OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SURVEYOR OF RECORD.
4. THIS SECTION REQUIRES THE REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:
 - a. SPECIFIED OBJECTS
 - b. VEGETATION WITHIN THE WORK AREA.
5. CONTRACTOR SHALL SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF THE CONTRACT AND APPROPRIATE SPECIFICATION SECTIONS:
 - a. A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.
6. JOB CONDITIONS
 - a. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.
 - b. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.
 - c. EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
 - d. TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
 - e. DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
 - f. PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION, CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
 - g. DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
 - h. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES. (AS REQUIRED)
7. DEMOLITION
 - a. BELOW-GRADE CONSTRUCTION: DEMOLISH FOUNDATION WALLS AND BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
 - b. FILLING VOIDS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION. BACK FILL TO BE COMPACTED TO 90% STANDARD PROCTOR OR 98% ON NEW STRUCTURES.
8. DISPOSAL OF DEMOLISHED MATERIALS
 - a. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
 - b. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
9. TEMPORARY TRAFFIC CONTROL DURING DEMOLITION AND CONSTRUCTION SHALL CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.

BENCHMARK DATA

BENCHMARK	ELEVATION	DATE
HCSO 104	PUBLISHED ELEVATIONS 809.09 (NAVD 88) MEASURED ELEVATION 808.99 (NAVD 88)	
CSC TBM #3044	ELEVATION 850.88	

MAG NAIL WITH HAMILTON COUNTY WASHER FOUND ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TRAFFIC POLE, LOCATED 75.7 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD AND 57.8 FEET NORTH OF THE CENTERLINE OF STATE ROAD 32.

CSC TBM #1
A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.

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SIGNATURE: *Kelly Ann Cantor*



DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS	DATE	DESCRIPTION

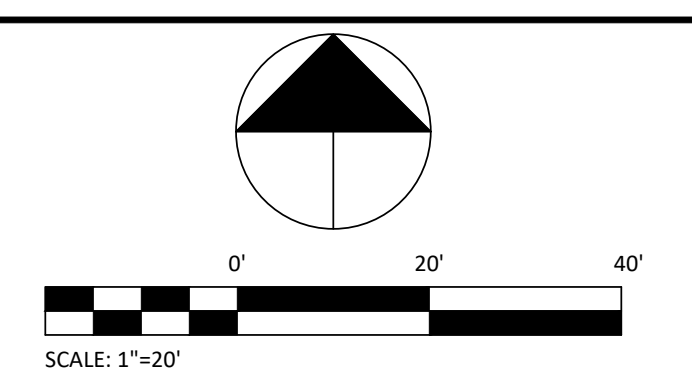
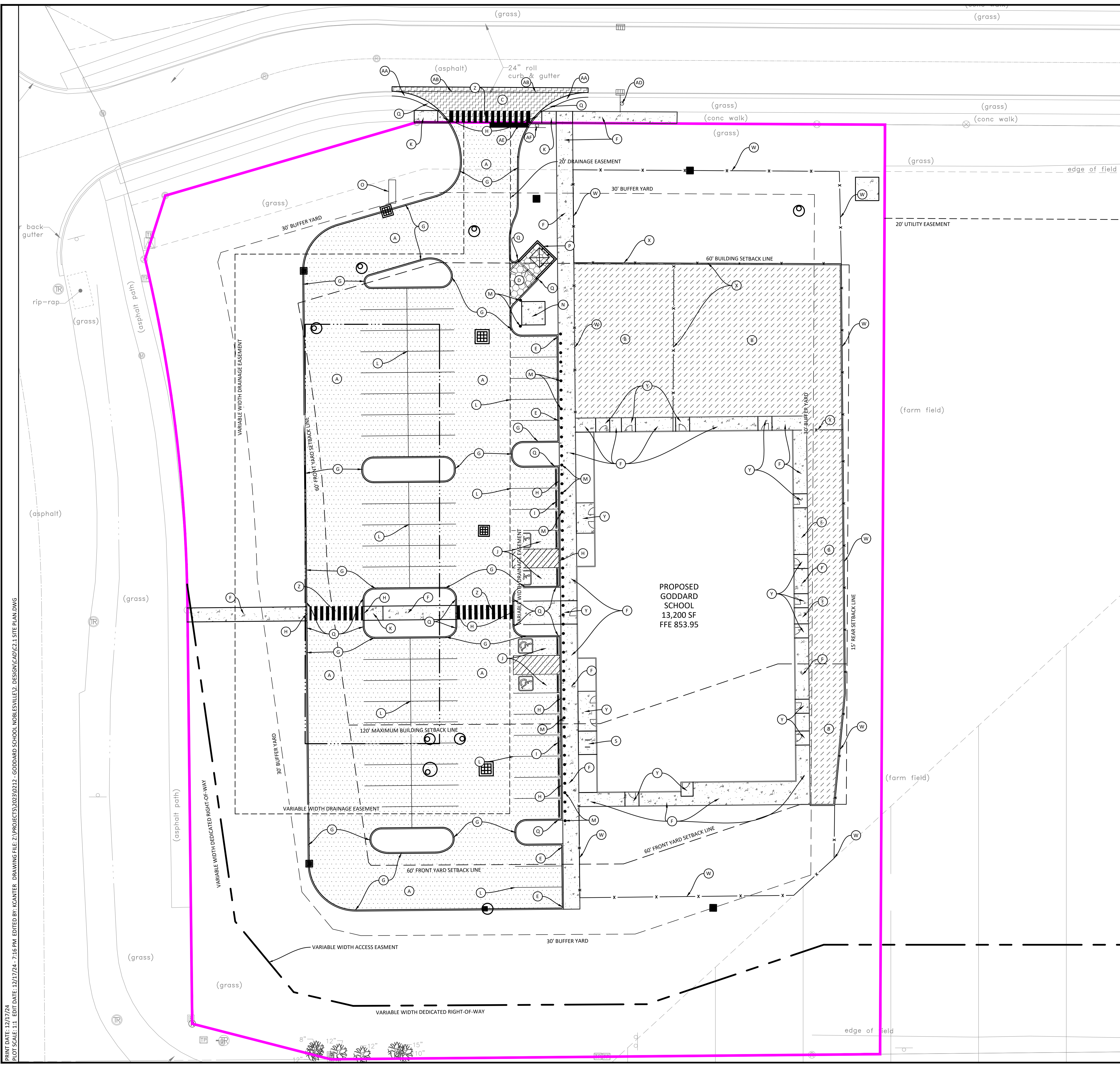


THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

SHEET TITLE: **DEMOLITION PLAN**

SHEET NUMBER: **C1.2**

PRINT DATE: 12/17/24
 PLOT SCALE: 1"=20'
 EDIT DATE: 12/17/24 1:40 PM
 EDITOR: ATALERO
 DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE\2 - DESIGN\CAD\C1.2 DEMOLITION PLAN.DWG



BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

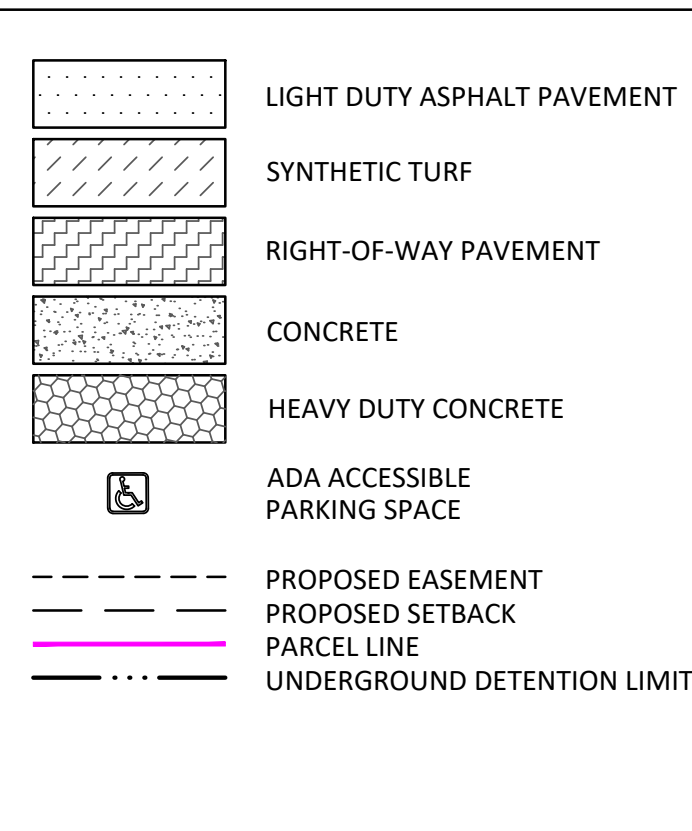
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- ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
- ALL DIMENSIONS ARE PARALLEL WITH OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCY IS DISCOVERED. ANY DAMAGE TO EXISTING FACILITIES WILL BE CORRECT AND PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
- ALL EXCAVATED AREAS SHALL BE SEED AFTER FINISH GRADING OR IF LEFT UNDISTURBED FOR MORE THAN 7 DAYS UNLESS OTHERWISE NOTED. ALL NEW SEED AREAS SHALL HAVE A MINIMUM OF 4" OF TOP SOIL.
- ALL UTILITY TRENCHES UNDER AND WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
- ALL SIDEWALKS SHALL COMPLY WITH PROWAG ADA STANDARDS, WITH A MAXIMUM CROSS SLOPE OF 1/4" FT. & MAXIMUM LINEAR SLOPE OF 1:20.
- THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A CORNER MONUMENT IS MOVED OR DAMAGED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OR SURVEYOR OF RECORD.
- CONCRETE JOINTS TO BE PROVIDED IN ACCORDANCE WITH ACI GUIDELINES.
- HORIZONTAL LAYOUT PLAN FOR CONSTRUCTION STAKING TO BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE FAMILIAR WITH CITY OF NOBLESVILLE CONSTRUCTION STANDARDS, LATEST EDITION.
- CONTRACT SHALL BE FAMILIAR WITH GODDARD STANDARDS AND SPECIFICATIONS.

KEYNOTES

- A. LIGHT DUTY ASPHALT
- B. SYNTHETIC TURF
- C. RIGHT OF WAY ASPHALT
- D. HEAVY DUTY CONCRETE
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- M. PROTECTIVE POST (BOLLARD)
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- O. PERMANENT MONUMENT SIGN
- P. DUMPSTER ENCLOSURE, SEE ARCHITECTURAL PLANS
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- Z. CROSSWALK STRIPING
- AA. TYPE 1 CONCRETE ROLL CURB
- AB. CURB REVEAL THROUGH DRIVE APPROACH
- AC. CURB TRANSITION
- AD. RELOCATED SIGN
- AE. STOP BAR
- AF. STOP SIGN

SITE LEGEND



SITE DATA

SITE ZONING:	PB
PROJECT AREA:	2.44 ACRES
BUILDING AREA:	13,20 SF
STANDARD PARKING: HANDICAP PARKING PROVIDED (includes 2 van accessible space)	62 4
TOTAL PROPOSED PARKING PROVIDED	66
REQUIRED PARKING: 1 SPACE PER 200 SF	66

REQUESTED WAIVERS

- TRASH RECEPTACLE IN FRONT YARD
- FENCING IN NORTH BUFFER YARD
- MONUMENT SIGN IN NORTH BUFFER YARD
- MONUMENT SIGN CLOSER THAN 10' FROM RIGHT-OF-WAY
- FENCING IN EAST BUFFER YARD
- FOUNDATION PLANTINGS OUTSIDE OF FENCING, MORE THAN 10' FROM BUILDING FOUNDATION

EXISTING LEGEND

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CSC TBM #3044	ELEVATION 850.88	SHEET NUMBER
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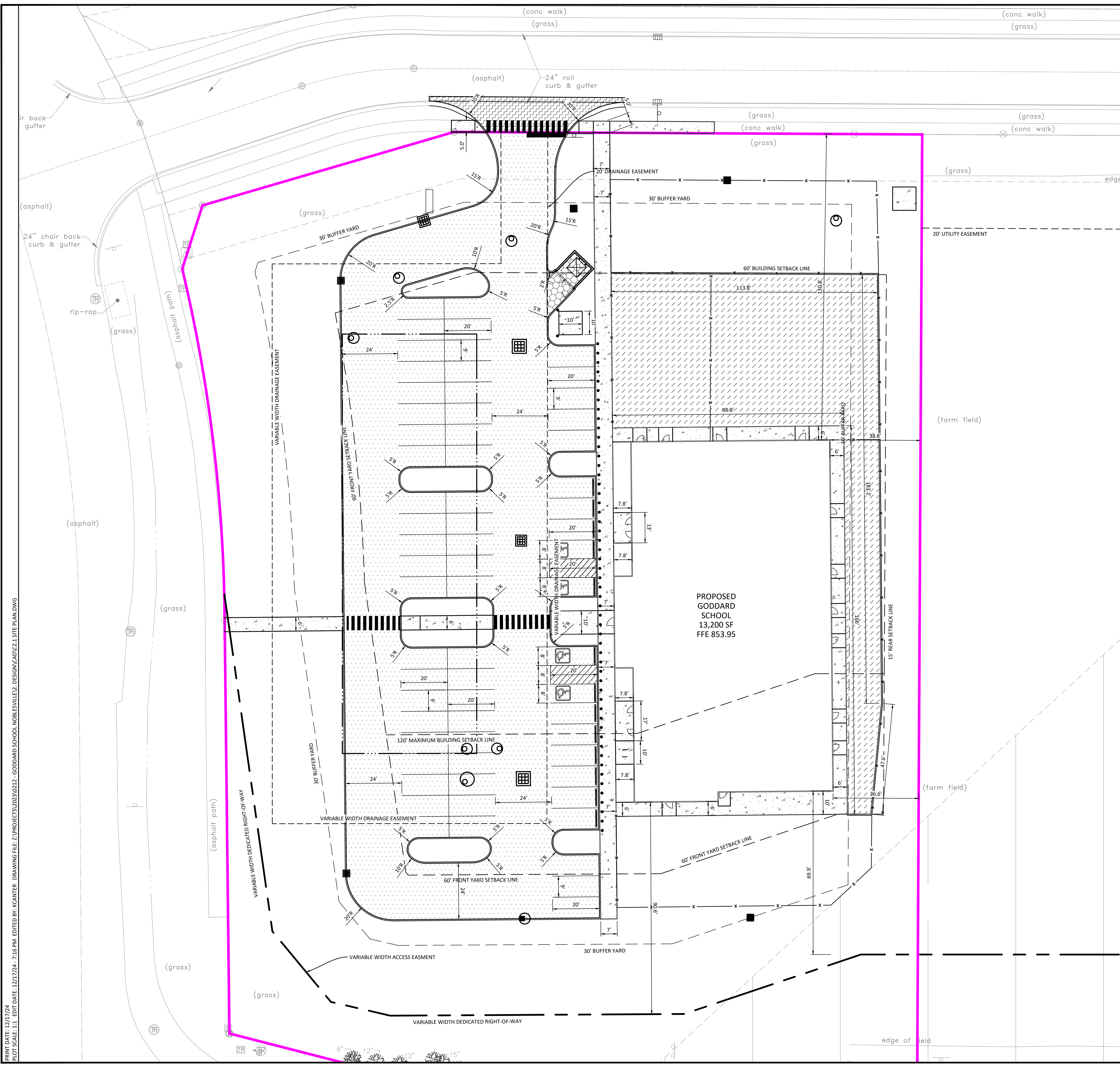
SIGNATURE: *Kelly Carter*
SEAL:

DATE	12/18/2024	
PROJECT NO.	2023.0212	
REVISIONS		
NO.	DATE	DESCRIPTION

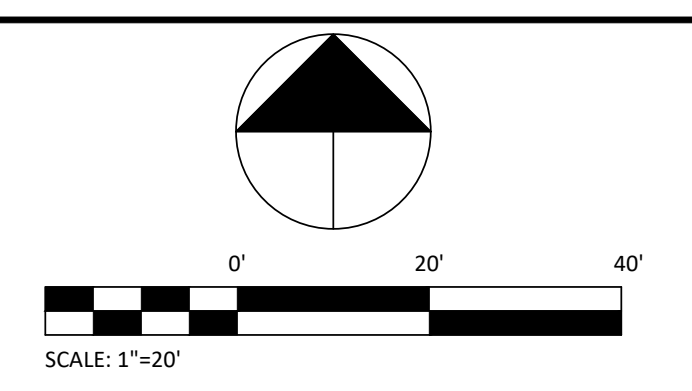


PROJECT TITLE
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DETAILED DEVELOPMENT PLAN**
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PRINT DATE: 12/17/24
PLOT SCALE: 1:1
DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE\2. DESIGN\CAD\C2.1 SITE PLAN.DWG
DESIGNER: KANTER
EDITED BY: KANTER
DATE: 12/17/24 - 7:16 PM



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SITE LEGEND

- LIGHT DUTY ASPHALT PAVEMENT
- SYNTHETIC TURF
- RIGHT-OF-WAY PAVEMENT
- CONCRETE
- HEAVY DUTY CONCRETE
- ADA ACCESSIBLE PARKING SPACE
- PROPOSED EASEMENT
- PROPOSED SETBACK
- PARCEL LINE
- UNDERGROUND DETENTION LIMITS

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BUILDING AREA:	13,20 SF
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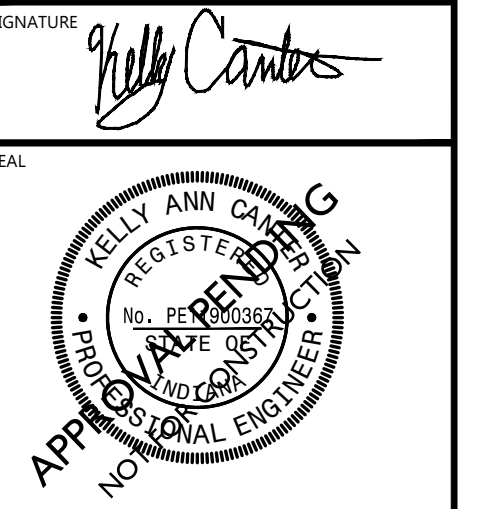
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	UNDG. WATER LINE
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HCSO 104	PUBLISHED ELEVATIONS 809.09 (NAVD 88) MEASURED ELEVATION 808.99 (NAVD 88)	SHEET TITLE
A STATE SURVEY STANDARD DISK, STAMPED 104 SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED AT THE SOUTHWEST CORNER OF MILL CREEK ROAD AND THE OLD CENTRAL INDIANA RAILROAD.		SITE DIMENSION PLAN
CSC TBM #3044	ELEVATION 850.88	SHEET NUMBER
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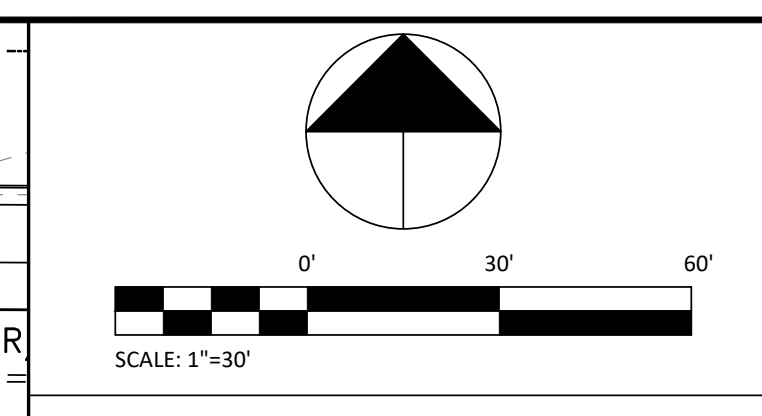
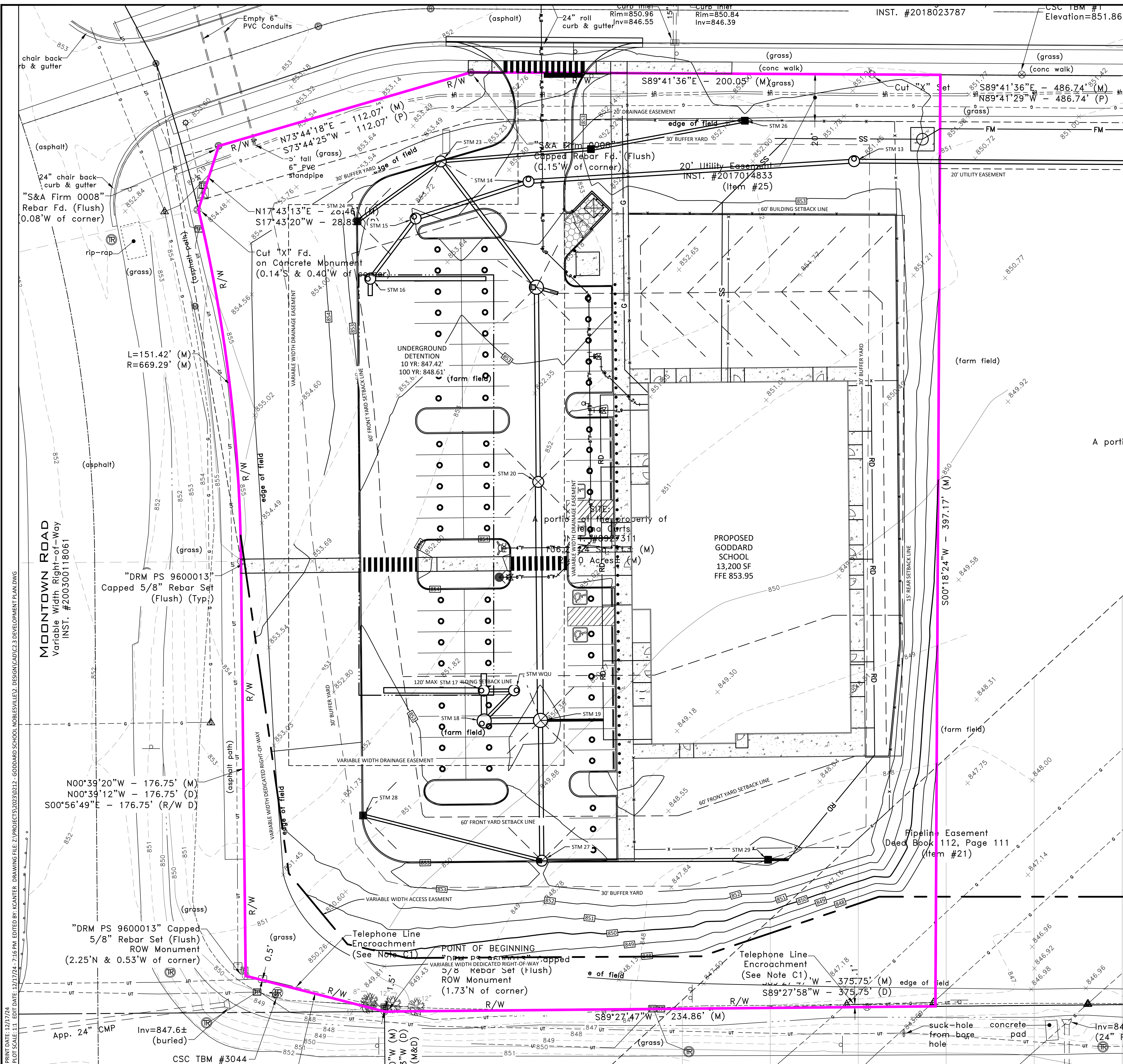
DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS	NO.	DATE	DESCRIPTION



THE GODDARD SCHOOL
 FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
 4903 CASTAMERE DRIVE
 NOBLESVILLE, INDIANA 46062

SHEET NUMBER
C2.2



SITE DATA

SITE ZONING:	PB
PROJECT AREA:	2.44 ACRES
BUILDING AREA:	13,20 SF
STANDARD PARKING:	62
HANDICAP PARKING PROVIDED (includes 2 van accessible space)	4
TOTAL PROPOSED PARKING PROVIDED	66
REQUIRED PARKING:	66
1 SPACE PER 200 SF	

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

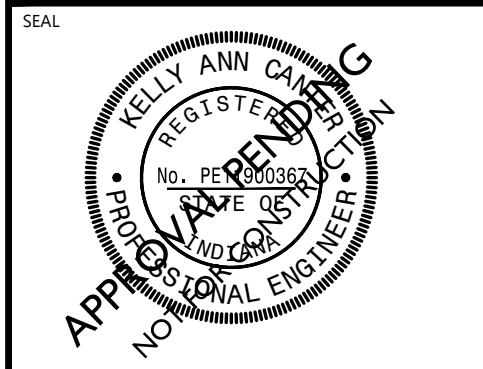
REQUESTED WAIVERS

- TRASH RECEPTACLE IN FRONT YARDS
- FENCING IN NORTH BUFFER YARD
- MONUMENT SIGN IN NORTH BUFFER YARD
- BUILDING IN EAST BUFFER YARD
- FENCING IN EAST BUFFER YARD
- FOUNDATION PLANTINGS OUTSIDE OF FENCING, MORE THAN 10' FROM BUILDING FOUNDATION

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SIGNATURE: *Kelly Ann Carter*



DATE: 12/18/2024
PROJECT NO: 2023.0212

EXISTING LEGEND

SYMBOL	DESCRIPTION
— / —	SIGN / TWO POST SIGN
⊕	WATER VALVE/FIRE HYD/METER
⊕	TELE/FIBER OPTIC/GAS MARKER
⊕	GAS METER / VALVE
○	CLEAN-OUT
⊕	ELEC. METER BOX/TRANSFORMER
⊕	ELEC. / TELEPHONE PEDESTAL
⊕	GUARD POST/POST with LIGHT
⊕	AIR CONDITIONER / GENERATOR
⊕	MAGNAIL SET/FOUND
⊕	REBAR SET/FOUND
⊕	SQUARE / ROUND / CURB INLET
⊕	TRAFFIC/COMBO/ POWER POLE
⊕	LIGHT POLE - SQUARE / ROUND
⊕	CONIFEROUS TREE & SIZE
⊕	DECIDUOUS TREE & SIZE
⊕	DRAINAGE /SANITARY MANHOLE
⊕	COMBINATION/MISC. LID MANHOLE
⊕	BEEHIVE ROUND/SQUARE INLET
⊕	GUY WIRE / GROUND LIGHT
— WTR —	UNDG. WATER LINE
— GAS —	UNDG. GAS LINE
— TEL —	UNDG. TELEPHONE LINE
— ELEC —	UNDG. ELECTRIC LINE
— OET —	OVERHEAD ELE. & TEL
— OETC —	OVERHEAD ELE TEL & CAB
— OE —	OVERHEAD ELECTRIC
— VCP —	vinylified clay pipe
— RCP —	reinforced concrete pipe
— PVC —	polyethylene coated pipe
— HDPE —	high-density polyethylene pipe
— DI —	ductile iron pipe

REVISIONS

NO.	DATE	DESCRIPTION



PROJECT TITLE

**THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN**
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

BENCHMARK DATA

HCSO 104 PUBLISHED ELEVATIONS 809.09 (NAVD 88)
MEASURED ELEVATION 808.99 (NAVD 88)

A STATE SURVEY STANDARD DISK, STAMPED 104 SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED AT THE SOUTHWEST CORNER OF MILL CREEK ROAD AND THE OLD CENTRAL INDIANA RAILROAD.

CSC TBM #3044 ELEVATION 850.88

MAG NAIL WITH HAMILTON COUNTY WASHER FOUND ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TRAFFIC POLE, LOCATED 75.7 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD AND 57.8 FEET NORTH OF THE CENTERLINE OF STATE ROAD 32.

CSC TBM #1
A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.

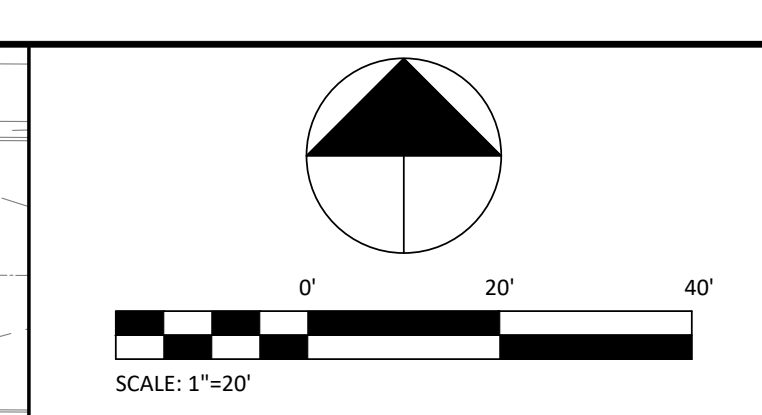
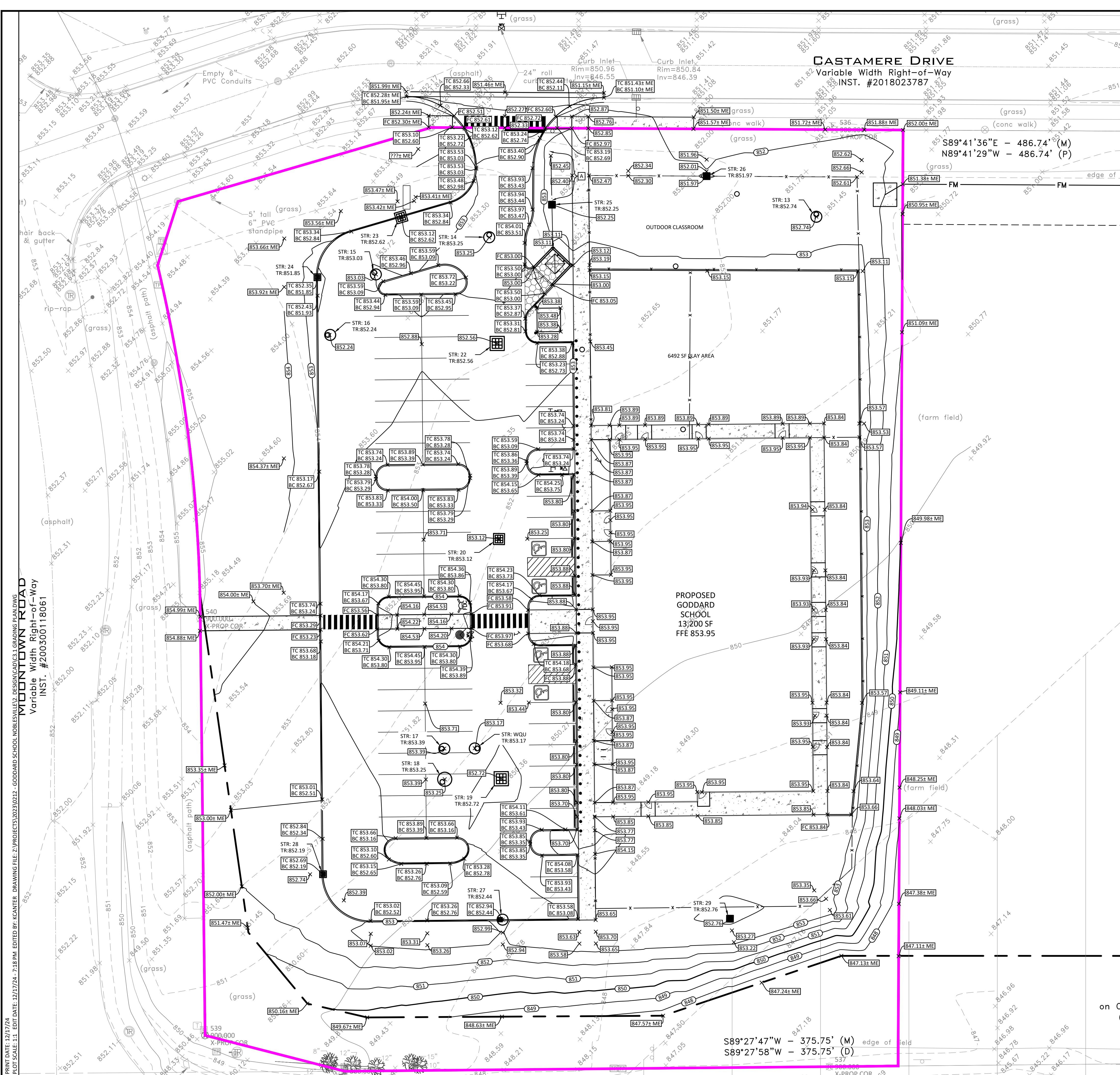
SHEET TITLE: **DEVELOPMENT PLAN**

SHEET NUMBER: **C2.3**

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

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PRINT DATE: 12/17/24
 PLOT SCALE: 1"=30'
 DATE: 12/17/24 7:16 PM
 EDITOR: KCANTEER
 DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE\2. DESIGN\CAD\C2.3 DEVELOPMENT PLAN.DWG
 DESIGNER: KCANTEER



GRADING LEGEND

ME	MATCH EXISTING
HP	HIGH POINT
LP	LOW POINT
BC	BOTTOM OF CURB
TC	TOP OF CURB
TR	TOP OF RIM/CASTING
FL	FLOWLINE
CON	CONTOURS
FLW	FLOW LINE
TC 000.00 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
FC 000.00	FLUSH CURB
000.00 ME	MATCH EXISTING ELEVATION.
	CONTRACTOR TO VERIFY ELEVATION SHOWN MATCHES EXISTING TIE-IN ELEVATION. NOTIFY ENGINEER IF VARIES BY 1/4" OR MORE.
→	FLOW ARROW
+	FLOOD ROUTE

NOTE: BUILDING FFE = 853.95'

KEYNOTES

- A. PROVIDE POSITIVE DRAINAGE TO INLET/LOW POINT

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED BY THE RESPONSIBLE PARTY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF UNDER OR WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, THE CONTRACTOR SHALL PROOF ROLL WITH A HEAVY WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUB-DRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR SHALL TEST FOR, AND CORRECT ANY DEFICIENT CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO STANDARD INDOT SPECIFICATIONS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. CONTRACTOR SHALL VERIFY ELEVATION OF ALL EXISTING STORM SEWERS BEFORE INSTALLATION OF THE PROPOSED STORM SEWER. IF A CONDITION IS DISCOVERED THAT PREVENTS INSTALLATIONS PER THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
14. CONTRACTOR SHALL PERFORM GRADING AND COMPACTION AND LIME STABILIZATION OF PAVEMENT SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
15. STRUCTURES RECEIVING SURFACE DRAINS SHALL HAVE BOTH PORTS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
16. ALL EXISTING UTILITY CASTINGS, LIDS, AND ACCESS SHALL BE SET TO FINAL GRADE UNLESS OTHERWISE DIRECTED.
17. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.

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SIGNATURE: *Nelly Carter*

SEAL: *APPROVED FOR THE STATE OF INDIANA*

DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS:

NO.	DATE	DESCRIPTION

EXISTING LEGEND

LEGEND:

SYMBOL	DESCRIPTION
— / —	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊕	TELE/FIBER OPTIC/GAS MARKER
⊖	CLEAN-OUT
⊞	ELEC. METER BOX/TRANSFORMER
⊟	ELEC. / TELEPHONE PEDAESTAL
⊠	GUARD POST/POST WITH LIGHT
⊡	AIR CONDITIONER / GENERATOR
⊢	MAGNAIL SET/FOUND
⊣	REBAR SET/FOUND
⊤	SQUARE / ROUND / CURB INLET
⊥	TRAFFIC/COMBO / POWER POLE
⊦	LIGHT POLE - SQUARE / ROUND
⊧	CONIFEROUS TREE & SIZE
⊨	DECIDUOUS TREE & SIZE
⊩	DRAINAGE /SANITARY MANHOLE
⊪	COMBINATION/MISC. LID MANHOLE
⊫	BEEHIVE ROUND/SQUARE INLET
⊬	GUY WIRE / GROUND LIGHT
—WTR—	UNDG. WATER LINE
—G—	UNDG. GAS LINE
—UT—	UNDG. TELEPHONE LINE
—UE—	UNDG. ELECTRIC LINE
—OET—	OVERHEAD ELE. & TEL
—OETC—	OVERHEAD ELE TEL & CAB
—OE—	OVERHEAD ELECTRIC
VCP	vitriified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

HCSO 104 PUBLISHED ELEVATIONS 809.09 (NAVD 88)
MEASURED ELEVATION 808.99 (NAVD 88)

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CSC TBM #1

A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.

Indiana 811
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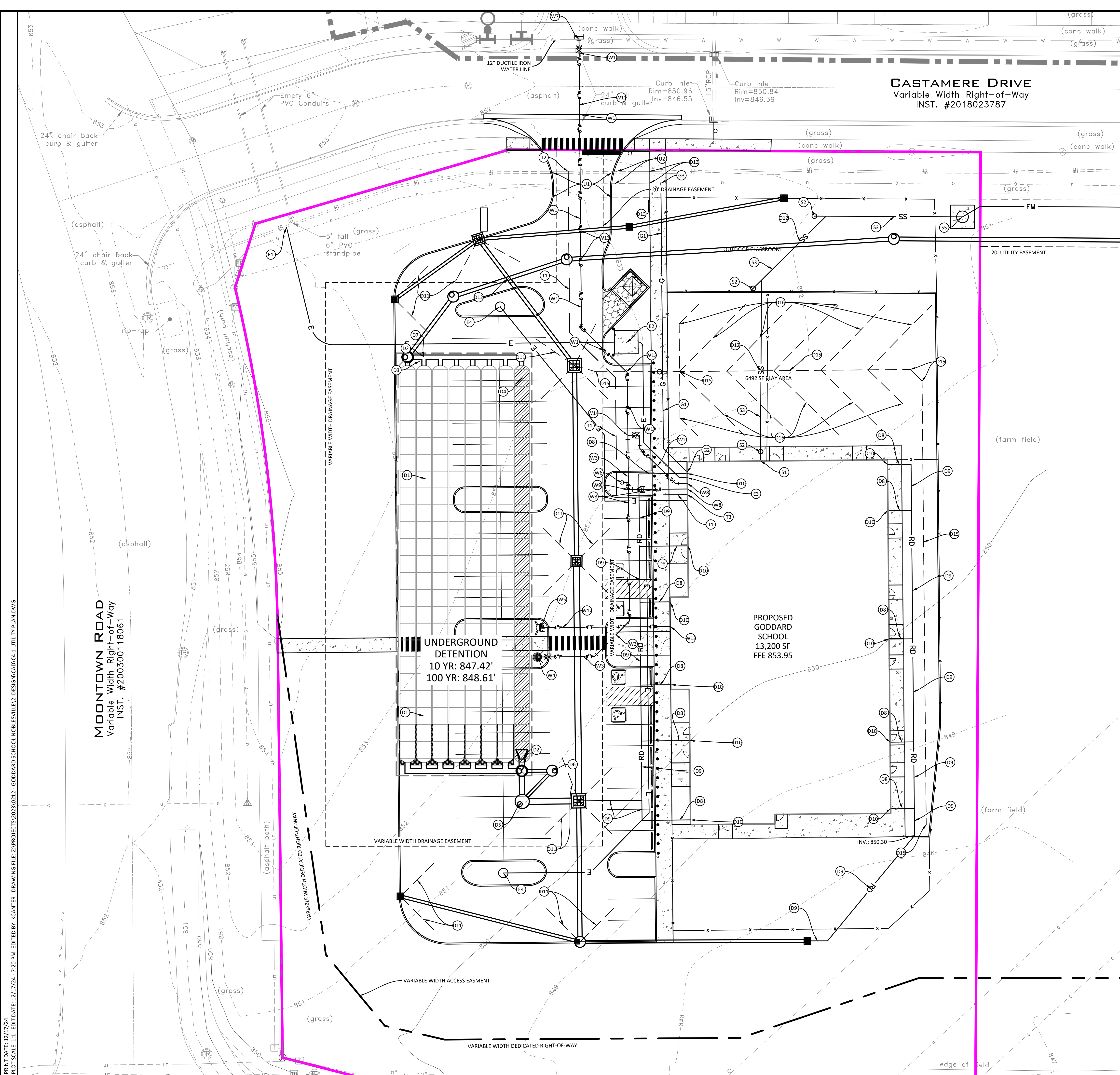
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THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

SHEET TITLE: **GRADING PLAN**

SHEET NUMBER: **C3.1**

PRINT DATE: 12/17/24
PLOT DATE: 11/11/24
DESIGNER: KANTER
DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE\2. GRADING PLAN.DWG
MOUNTAIN ROAD
Variable Width Right-of-Way
INST. #200300118061

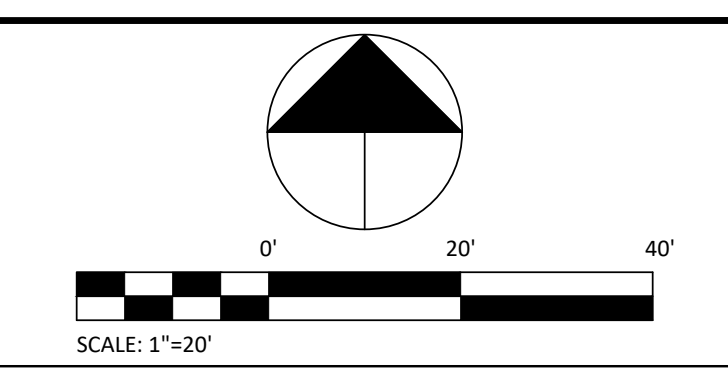


CASTAMERE DRIVE
Variable Width Right-of-Way
INST. #2018023787

MOONTOWN ROAD
Variable Width Right-of-Way
INST. #200300118061

PROPOSED
GODDARD
SCHOOL
13,200 SF
FFE 853.95

UNDERGROUND
DETENTION
10 YR: 847.42'
100 YR: 848.61'



KEYNOTES

- WATER**
- W1. 6" C900 PVC WATER LINE PER CITIZEN'S ENERGY GROUP (CEG) STANDARDS
 - W2. 2" C901 PVC DOMESTIC WATER LINE PER CEG STANDARDS
 - W3. 6" C900 PVC FIRE SERVICE WATER LINE PER CEG STANDARDS
 - W4. FIRE HYDRANT ASSEMBLY PER NOBLESVILLE FIRE DEPARTMENT (NFD) STANDARDS.
 - W5. FIRE DEPARTMENT CONNECTION PER NFD STANDARDS.
 - W6. POST INDICATOR VALVE PER CEG AND NFD STANDARDS. PIV TO BE 40" MINIMUM FROM BUILDING. PROVIDE PROTECTIVE POSTS ON EITHER SIDE OF PIV.
 - W7. 6" STAINLESS STEEL TAPPING SLEEVE AND VALVE PER CITY STANDARDS.
 - W8. CONNECTION TO BUILDING. REFER TO MEP FOR CONTINUATION.
 - W9. 6"x6" TEE AND 6" VALVE PER CEG STANDARDS.
 - W10. WATER VALVE PER CEG STANDARDS.
 - W11. BORE UNDER STREET PER CITY OF NOBLESVILLE STANDARDS
 - W12. FIRE DEPARTMENT CONNECTION PER NFD STANDARDS.
 - W13. MAINTAIN 18" VERTICAL SEPARATION.
 - W14. 6"x2" TEE AND 2" VALVE PER CEG STANDARDS SANITARY
 - S1. CONNECTION TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - S2. SANITARY CLEANOUT PER CITY STANDARDS.
 - S3. 6" SDR-35 PVC SANITARY LATERAL AT 1.05% MIN SLOPE PER CITY STANDARDS.
 - S4. CONTRACTOR TO VERIFY FORCEMAIN INVERT. CONNECT NEW FORCEMAIN TO EXISTING FORCEMAIN PER CITY STANDARDS.
 - S5. LIFT STATION, SEE LIFT STATION DESIGN PLANS.
- DRAINAGE**
- D1. UNDERGROUND DETENTION SYSTEM, SEE DETAILS.
 - D2. DETENTION MANIFOLD STRUCTURE. SEE DETAILS.
 - D3. 6" UNDERDRAIN, CONNECT TO OUTLET CONTROL STRUCTURE.
 - D4. DETENTION SYSTEM INSPECTION PORT, SEE DETAILS.
 - D5. DIVERSION STRUCTURE. SEE DETAILS.
 - D6. WATER QUALITY UNIT - XC-4. SEE DETAILS.
 - D7. OUTLET CONTROL STRUCTURE. SEE DETAILS.
 - D8. 6" DUAL WALL HDPE ROOF DRAIN AT 0.75% MIN. SLOPE
 - D9. 8" DUAL WALL HDPE ROOF DRAIN AT 0.5% MIN. SLOPE
 - D10. DOWNSPOUT BOOT, SEE PLUMBING PLANS FOR CONTINUATION. SEE DETAILS.
 - D11. 20 LF OF 6" DUAL WALL PERFORATED HDPE SUBSURFACE DRAIN (SSD). CAP UPSTREAM END. CONNECT TO STRUCTURE.
 - D12. PROVIDE CONCRETE CRADLE IF 18" SEPARATION CANNOT BE MAINTAINED/PROVIDED.
 - D13. NOT USED
 - D14. LOCATE UTILITY AT STORM CROSSING, PROVIDE DEPTHS, SIZE, AND LOCATION TO ENGINEER. IF CONFLICT EXISTS, LOWER UTILITY, PROVIDE CONFLICT STRUCTURE, OR ALTERNATIVE STORM STRUCTURE AND CROSSING IN COORDINATION WITH UTILITY COMPANY.
 - D15. SYNTHETIC TURF 12" COLLECTOR DRAIN AT 0.50% SLOPE MIN. SEE DETAILS.
 - D16. 1"x12" FLAT PANEL DRAINS. SEE DETAILS.
- ELECTRIC**
- E1. ELECTRIC SERVICE TO SITE PER ELECTRICAL PLANS
 - E2. TRANSFORMER PAD LOCATION PER LOCAL UTILITY STANDARDS. PROVIDE BOLLARDS AT TRANSFORMER FOR PROTECTION FROM VEHICULAR IMPACT.
 - E3. SERVICE TO BUILDING REFER TO ELECTRICAL PLANS FOR CONTINUATION.
 - E4. ELECTRICAL LIGHT POLE, SEE ELECTRICAL PLANS/DETAILS.
- TELECOMMUNICATIONS**
- T1. TELEPHONE AND FIBER CONDUIT
 - T2. TELEPHONE AND FIBER SERVICE
 - T3. TELEPHONE AND FIBER SERVICE TO BUILDING, REFER TO MEP FOR CONTINUATION
- GAS**
- G1. 2" GAS SERVICE LINE.
 - G2. GAS METER. CONNECTION TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - G3. CONNECTION TO EXISTING LINE. COORDINATE WITH UTILITY AND OWNER FOR SERVICE.
- UTILITY**
- U1. PROVIDE GRANULAR BACKFILL OVER EXISTING PIPES TO BE LOCATED UNDER OR WITHIN 5' OF PROPOSED PAVEMENT.
 - U2. VERIFY UTILITY CROSSING PRIOR TO CONSTRUCTION TO CONFIRM DEPTH OF UTILITY AND NO CONFLICT AT CROSSINGS.
- GENERAL NOTE:**
COORDINATE ALL UTILITY LOCATIONS AT THE BUILDING WITH MECHANICAL, ELECTRICAL, AND PLUMBING PLANS.
COORDINATE SITE ELECTRIC WITH ELECTRICAL PLANS.

UTILITY LEGEND

	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	ELECTRIC LINE
	TELEPHONE LINE
	ROOF DRAIN
	WATER LINE
	VALVE
	WATER METER PIT
	HYDRANT
	CLEANOUT (STORM & SANITARY)



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

GENERAL NOTES

1. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
2. ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
3. ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
4. ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
5. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
7. ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
9. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
10. ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
11. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
12. ALL SEWER PIPES UNDER OR WITHIN 5' OF PAVEMENT SHALL BE BACKFILLED WITH GRANULAR BACKFILL FOR BACKFILL PURPOSES, PAVED SHOULDERS, CURBS, GUTTER, AND SIDE WALKS ARE CONSIDER PAVEMENT. FOR PIPES WITHIN INDIANA STATE RIGHTS-OF-WAY, BACKFILL SHALL BE PROVIDED PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. LOCAL JURISDICTION REQUIREMENTS MAY DICTATE MORE STRINGENT REQUIREMENTS AT TIME OF CONSTRUCTION AND INSPECTION.
13. CONTRACTOR TO PROVIDE SURVEYED AS-BUILT/RECORD DRAWINGS OF ALL STORM SEWERS AND SANITARY SEWER MAINS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.

EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE/FIBER OPTIC/GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST WITH LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	DRAINAGE / SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
	UNDG. WATER LINE
	UNDG. GAS LINE
	UNDG. TELEPHONE LINE
	UNDG. ELECTRIC LINE
	OVERHEAD ELE. & TEL
	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
	vitrified clay pipe
	reinforced concrete pipe
	polyethylene coated pipe
	high-density polyethylene pipe
	ductile iron pipe

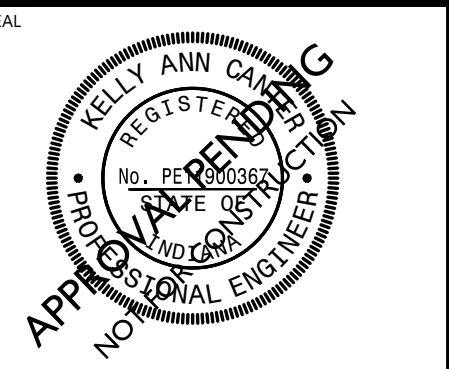
BENCHMARK DATA

HC50 104	PUBLISHED ELEVATIONS 809.09 (NAVD 88) MEASURED ELEVATION 808.99 (NAVD 88)	SHEET TITLE
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CSC TBM #3044	ELEVATION 850.88	SHEET NUMBER
MAG NAIL WITH HAMILTON COUNTY WASHER FOUND ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TRAFFIC POLE, LOCATED 75.7 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD AND 57.8 FEET NORTH OF THE CENTERLINE OF STATE ROAD 32.		C4.1
CSC TBM #1		
A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.		

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SIGNATURE
Nelly Carter

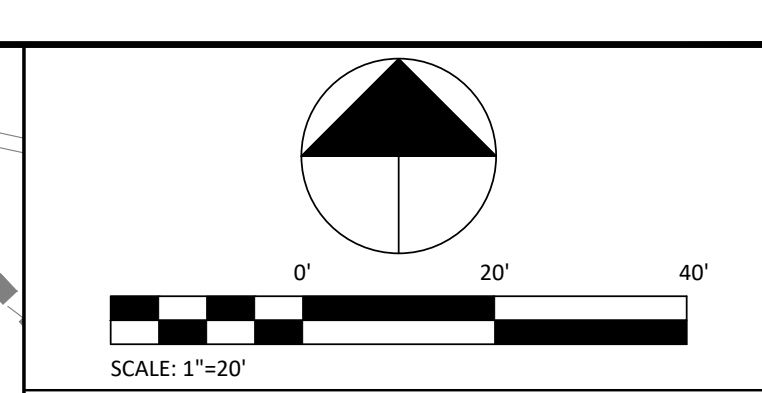
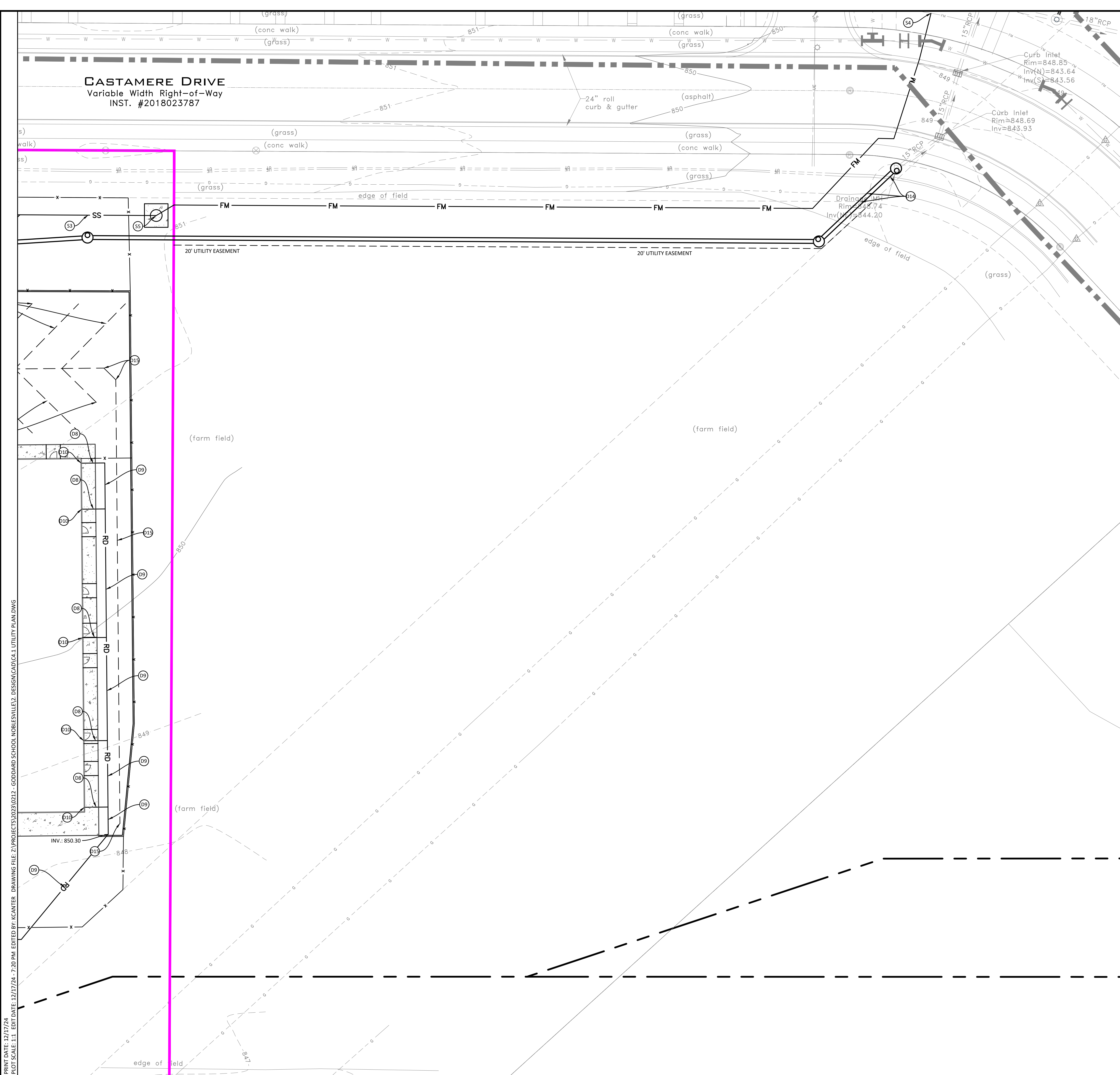


DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS	DATE	DESCRIPTION



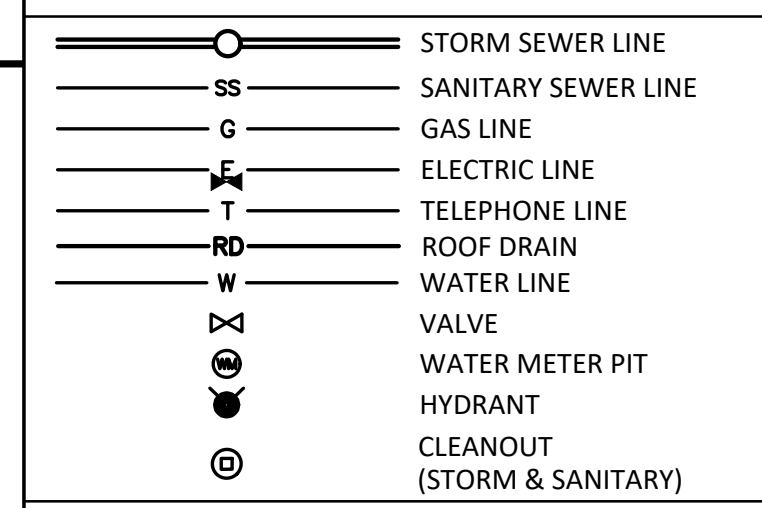
PROJECT TITLE
THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062



KEYNOTES

- WATER**
- W1. 6" C900 PVC WATER LINE PER CITIZEN'S ENERGY GROUP (CEG) STANDARDS
 - W2. 2" C901 PVC DOMESTIC WATER LINE PER CEG STANDARDS
 - W3. 6" C900 PVC FIRE SERVICE WATER LINE PER CEG STANDARDS
 - W4. FIRE HYDRANT ASSEMBLY PER NOBLESVILLE FIRE DEPARTMENT (NFD) STANDARDS.
 - W5. FIRE DEPARTMENT CONNECTION PER NFD STANDARDS.
 - W6. POST INDICATOR VALVE PER CEG AND NFD STANDARDS. PIV TO BE 40' MINIMUM FROM BUILDING. PROVIDE PROTECTIVE POSTS ON EITHER SIDE OF PIV.
 - W7. 6" STAINLESS STEEL TAPPING SLEEVE AND VALVE PER CITY STANDARDS.
 - W8. CONNECTION TO BUILDING. REFER TO MEP FOR CONTINUATION.
 - W9. 6"x6" TEE AND 6" VALVE PER CEG STANDARDS.
 - W10. WATER VALVE PER CEG STANDARDS.
 - W11. BORE UNDER STREET PER CITY OF NOBLESVILLE STANDARDS
 - W12. FIRE DEPARTMENT CONNECTION PER NFD STANDARDS.
 - W13. MAINTAIN 18" VERTICAL SEPARATION.
 - W14. 6"x2" TEE AND 2" VALVE PER CEG STANDARDS SANITARY
 - W15. CONNECTION TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - W16. SANITARY CLEANOUT PER CITY STANDARDS.
 - W17. 6" SDR-35 PVC SANITARY LATERAL AT 1.05% MIN SLOPE PER CITY STANDARDS.
 - W18. CONTRACTOR TO VERIFY FORCEMAIN INVERT. CONNECT NEW FORCEMAIN TO EXISTING FORCEMAIN PER CITY STANDARDS.
 - W19. LIFT STATION, SEE LIFT STATION DESIGN PLANS.
- DRAINAGE**
- D1. UNDERGROUND DETENTION SYSTEM, SEE DETAILS.
 - D2. DETENTION MANIFOLD STRUCTURE. SEE DETAILS.
 - D3. 6" UNDERDRAIN, CONNECT TO OUTLET CONTROL STRUCTURE.
 - D4. DETENTION SYSTEM INSPECTION PORT, SEE DETAILS.
 - D5. DIVERSION STRUCTURE. SEE DETAILS.
 - D6. WATER QUALITY UNIT - XC-4. SEE DETAILS.
 - D7. OUTLET CONTROL STRUCTURE. SEE DETAILS.
 - D8. 6" DUAL WALL HDPE ROOF DRAIN AT 0.75% MIN. SLOPE
 - D9. 8" DUAL WALL HDPE ROOF DRAIN AT 0.5% MIN. SLOPE
 - D10. DOWNSPOUT BOOT, SEE PLUMBING PLANS FOR CONTINUATION. SEE DETAILS.
 - D11. 20 LF OF 6" DUAL WALL PERFORATED HDPE SUBSURFACE DRAIN (SSD). CAP UPSTREAM END. CONNECT TO STRUCTURE.
 - D12. PROVIDE CONCRETE CRADLE IF 18" SEPARATION CANNOT BE MAINTAINED/PROVIDED.
 - D13. NOT USED
 - D14. LOCATE UTILITY AT STORM CROSSING, PROVIDE DEPTHS, SIZE, AND LOCATION TO ENGINEER. IF CONFLICT EXISTS, LOWER UTILITY, PROVIDE CONFLICT STRUCTURE, OR ALTERNATIVE STORM STRUCTURE AND CROSSING IN COORDINATION WITH UTILITY COMPANY.
 - D15. SYNTHETIC TURF 12" COLLECTOR DRAIN AT 0.50% SLOPE MIN. SEE DETAILS.
 - D16. 1"x12" FLAT PANEL DRAINS. SEE DETAILS.
- ELECTRIC**
- E1. ELECTRIC SERVICE TO SITE PER ELECTRICAL PLANS
 - E2. TRANSFORMER PAD LOCATION PER LOCAL UTILITY STANDARDS. PROVIDE BOLLARDS AT TRANSFORMER FOR PROTECTION FROM VEHICULAR IMPACT.
 - E3. SERVICE TO BUILDING REFER TO ELECTRICAL PLANS FOR CONTINUATION.
 - E4. ELECTRICAL LIGHT POLE, SEE ELECTRIC PLANS/DETAILS.
- TELECOMMUNICATIONS**
- T1. TELEPHONE AND FIBER CONDUIT
 - T2. TELEPHONE AND FIBER SERVICE
 - T3. TELEPHONE AND FIBER SERVICE TO BUILDING, REFER TO MEP FOR CONTINUATION
- GAS**
- G1. 2" GAS SERVICE LINE.
 - G2. GAS METER. CONNECTION TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION.
 - G3. CONNECTION TO EXISTING LINE. COORDINATE WITH UTILITY AND OWNER FOR SERVICE.
- UTILITY**
- U1. PROVIDE GRANULAR BACKFILL OVER EXISTING PIPES TO BE LOCATED UNDER OR WITHIN 5' OF PROPOSED PAVEMENT.
 - U2. VERIFY UTILITY CROSSING PRIOR TO CONSTRUCTION TO CONFIRM DEPTH OF UTILITY AND NO CONFLICT AT CROSSINGS.
- GENERAL NOTE:**
COORDINATE ALL UTILITY LOCATIONS AT THE BUILDING WITH MECHANICAL, ELECTRICAL, AND PLUMBING PLANS.
COORDINATE SITE ELECTRIC WITH ELECTRIC PLANS.

UTILITY LEGEND



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

GENERAL NOTES

1. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE UTILITIES FOR PROPER STAKE LOCATION BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
2. ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
3. ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
4. ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
5. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
7. ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
9. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
10. ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
11. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
12. ALL SEWER PIPES UNDER OR WITHIN 5' OF PAVEMENT SHALL BE BACKFILLED WITH GRANULAR BACKFILL FOR BACKFILL PURPOSES, PAVED SHOULDERS, CURBS, GUTTER, AND SIDE WALKS ARE CONSIDER PAVEMENT. FOR PIPES WITHIN INDIANA STATE RIGHTS-OF-WAY, BACKFILL SHALL BE PROVIDED PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. LOCAL JURISDICTION REQUIREMENTS MAY DICTATE MORE STRINGENT REQUIREMENTS AT TIME OF CONSTRUCTION AND INSPECTION.
13. CONTRACTOR TO PROVIDE SURVEYED AS-BUILT/RECORD DRAWINGS OF ALL STORM SEWERS AND SANITARY SEWER MAINS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.

EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION
— / —	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊠	TELE/FIBER OPTIC/GAS MARKER
⊙	GAS METER / VALVE
○	CLEAN-OUT
⊠	ELEC. METER BOX/TRANSFORMER
⊠	ELEC. / TELEPHONE PEDESTAL
⊠	GUARD POST/POST WITH LIGHT
⊠	AIR CONDITIONER / GENERATOR
⊠	MAGNAIL SET/FOUND
⊠	REBAR SET/FOUND
⊠	SQUARE / ROUND / CURB INLET
⊠	TRAFFIC/COMBO/ POWER POLE
⊠	LIGHT POLE - SQUARE / ROUND
⊠	CONIFEROUS TREE & SIZE
⊠	DECIDUOUS TREE & SIZE
⊠	DRAINAGE /SANITARY MANHOLE
⊠	COMBINATION/MISC. LID MANHOLE
⊠	BEEHIVE ROUND/SQUARE INLET
⊠	GUY WIRE / GROUND LIGHT
---	UNDG. WATER LINE
---	UNDG. GAS LINE
---	UNDG. TELEPHONE LINE
---	UNDG. ELECTRIC LINE
---	OVERHEAD ELE. & TEL
---	OVERHEAD ELE TEL & CAB
---	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

HCSO 104	PUBLISHED ELEVATIONS 809.09 (NAVD 88) MEASURED ELEVATION 808.99 (NAVD 88)	SHEET TITLE	UTILITY PLAN
CSC TBM #3044	ELEVATION 850.88	SHEET NUMBER	C4.2
MAG NAIL WITH HAMILTON COUNTY WASHER FOUND ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TRAFFIC POLE, LOCATED 75.7 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD AND 57.8 FEET NORTH OF THE CENTERLINE OF STATE ROAD 32.			
CSC TBM #1			
A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.			

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SIGNATURE: *Nelly Cantner*

SEAL:

DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS

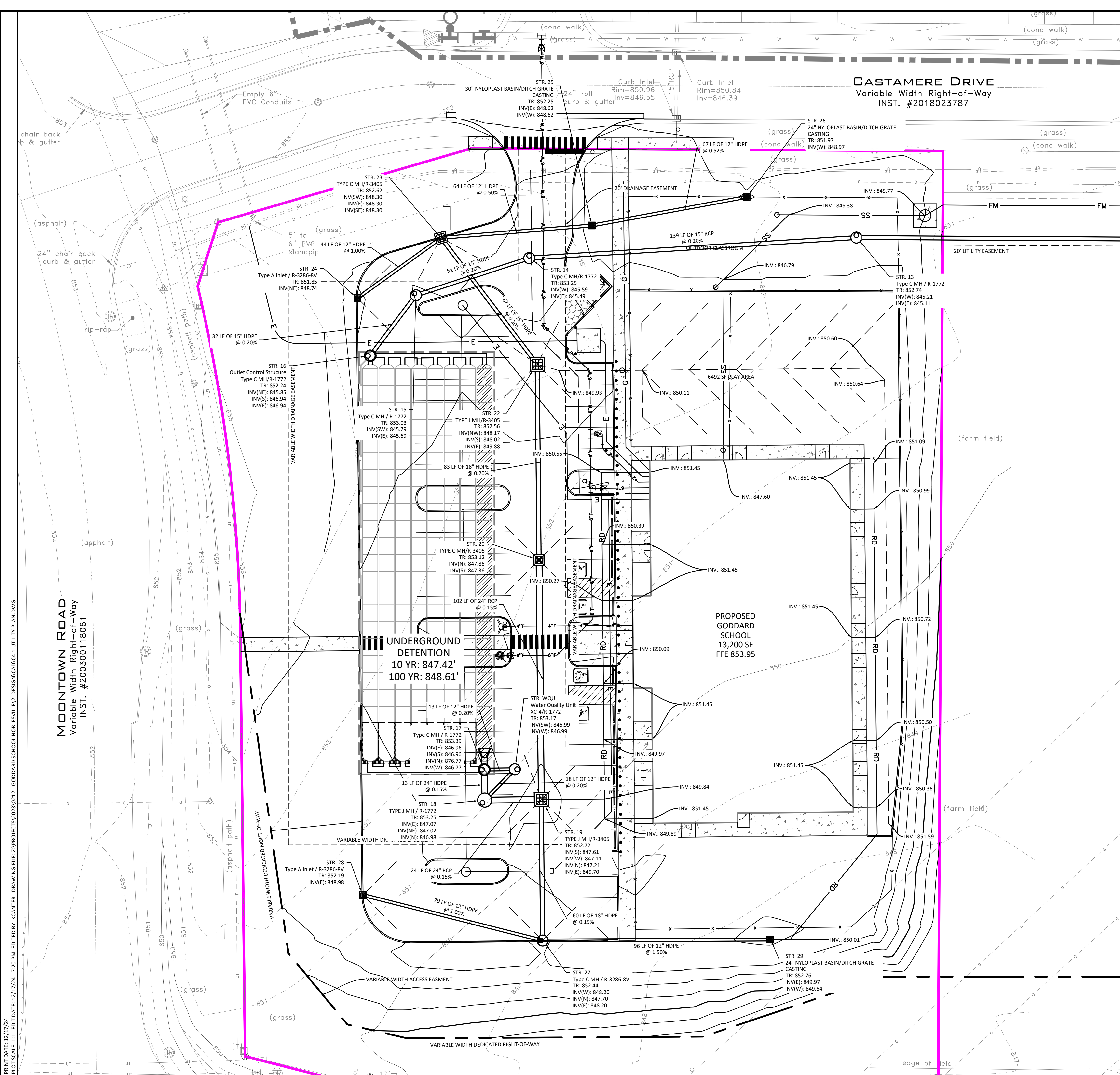
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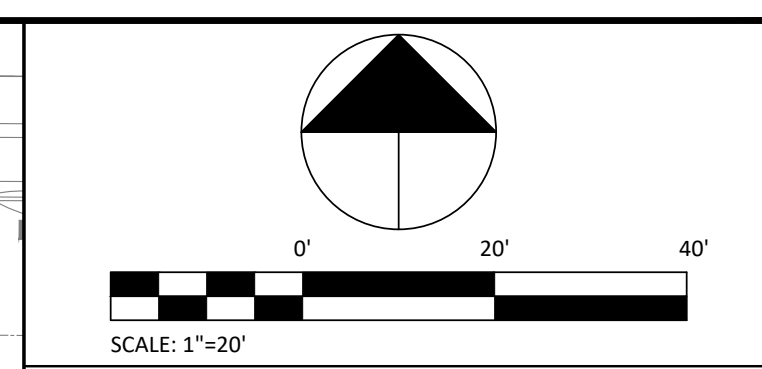
PROJECT TITLE

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DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

PRINT DATE: 12/17/24
PLOT SCALE: 1:1
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EDIT DATE: 12/17/24 - 7:20 PM
EDITED BY: KCANTNER



CASTAMERE DRIVE
Variable Width Right-of-Way
INST. #2018023787



KEYNOTES

- WATER**
- W1. 6" C900 PVC WATER LINE PER CITIZEN'S ENERGY GROUP (CEG) STANDARDS
 - W2. 2" C901 PVC DOMESTIC WATER LINE PER CEG STANDARDS
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 - W5. FIRE DEPARTMENT CONNECTION PER NFD STANDARDS.
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- D1. UNDERGROUND DETENTION SYSTEM, SEE DETAILS.
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EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION:
— / —	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊠	TELE/FIBER OPTIC/GAS MARKER
⊙	GAS METER / VALVE
○	CLEAN-OUT
⊞	ELEC. METER BOX/TRANSFORMER
⊞	ELEC. / TELEPHONE PEDESTAL
⊞	GUARD POST/POST WITH LIGHT
⊞	AIR CONDITIONER / GENERATOR
⊞	MAGNAIL SET/FOUND
⊞	REBAR SET/FOUND
⊞	SQUARE / ROUND / CURB INLET
⊞	TRAFFIC/COMBO/ POWER POLE
⊞	LIGHT POLE - SQUARE / ROUND
⊞	CONIFEROUS TREE & SIZE
⊞	DECIDUOUS TREE & SIZE
⊞	DRAINAGE /SANITARY MANHOLE
⊞	COMBINATION/MISC. LID MANHOLE
⊞	BEEHIVE ROUND/SQUARE INLET
⊞	GUY WIRE / GROUND LIGHT
⊞	UNDG. WATER LINE
⊞	UNDG. GAS LINE
⊞	UNDG. TELEPHONE LINE
⊞	UNDG. ELECTRIC LINE
⊞	OVERHEAD ELE. & TEL
⊞	OVERHEAD ELE TEL & CAB
⊞	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

UTILITY LEGEND

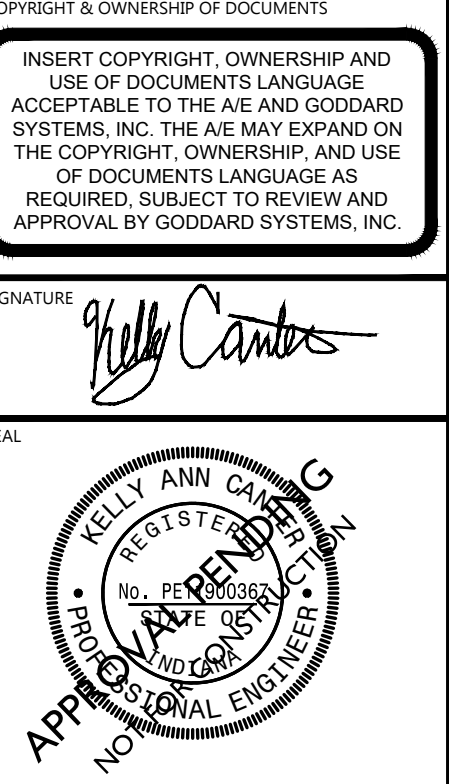
—	STORM SEWER LINE
SS	SANITARY SEWER LINE
G	GAS LINE
E	ELECTRIC LINE
T	TELEPHONE LINE
R	ROOF DRAIN
W	WATER LINE
V	VALVE
⊞	WATER METER PIT
⊞	HYDRANT
⊞	CLEANOUT (STORM & SANITARY)



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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A CLUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.		



REVISIONS	DATE	DESCRIPTION
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	2023.0212	



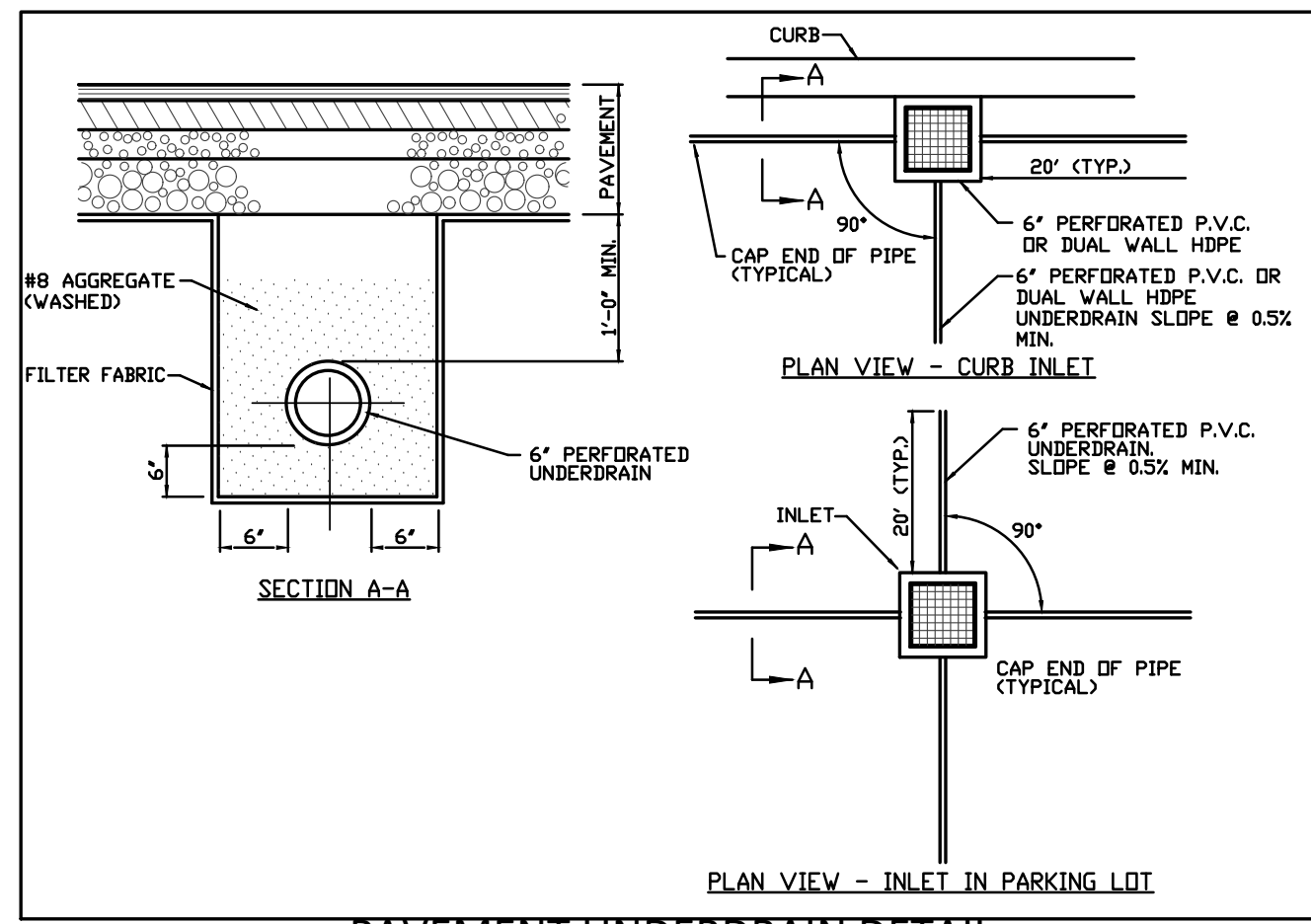
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DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA
46062

UTILITY PLAN

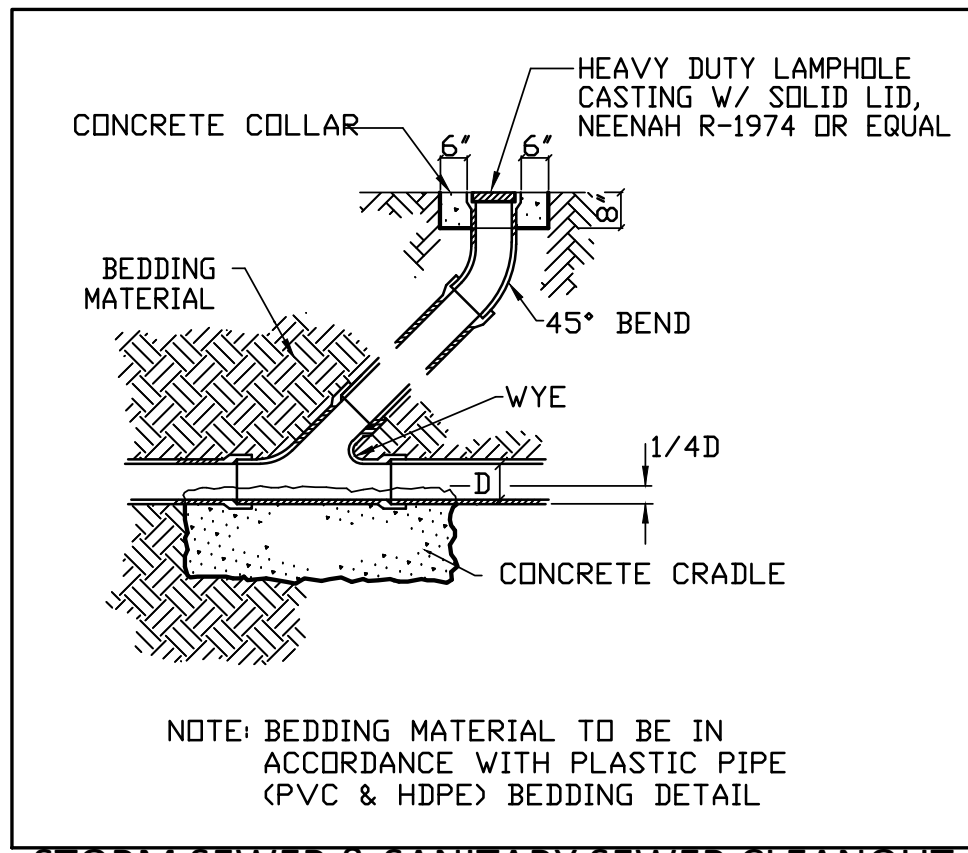
C4.3

MOONTOWN ROAD
Variable Width Right-of-Way
INST. #200300118061

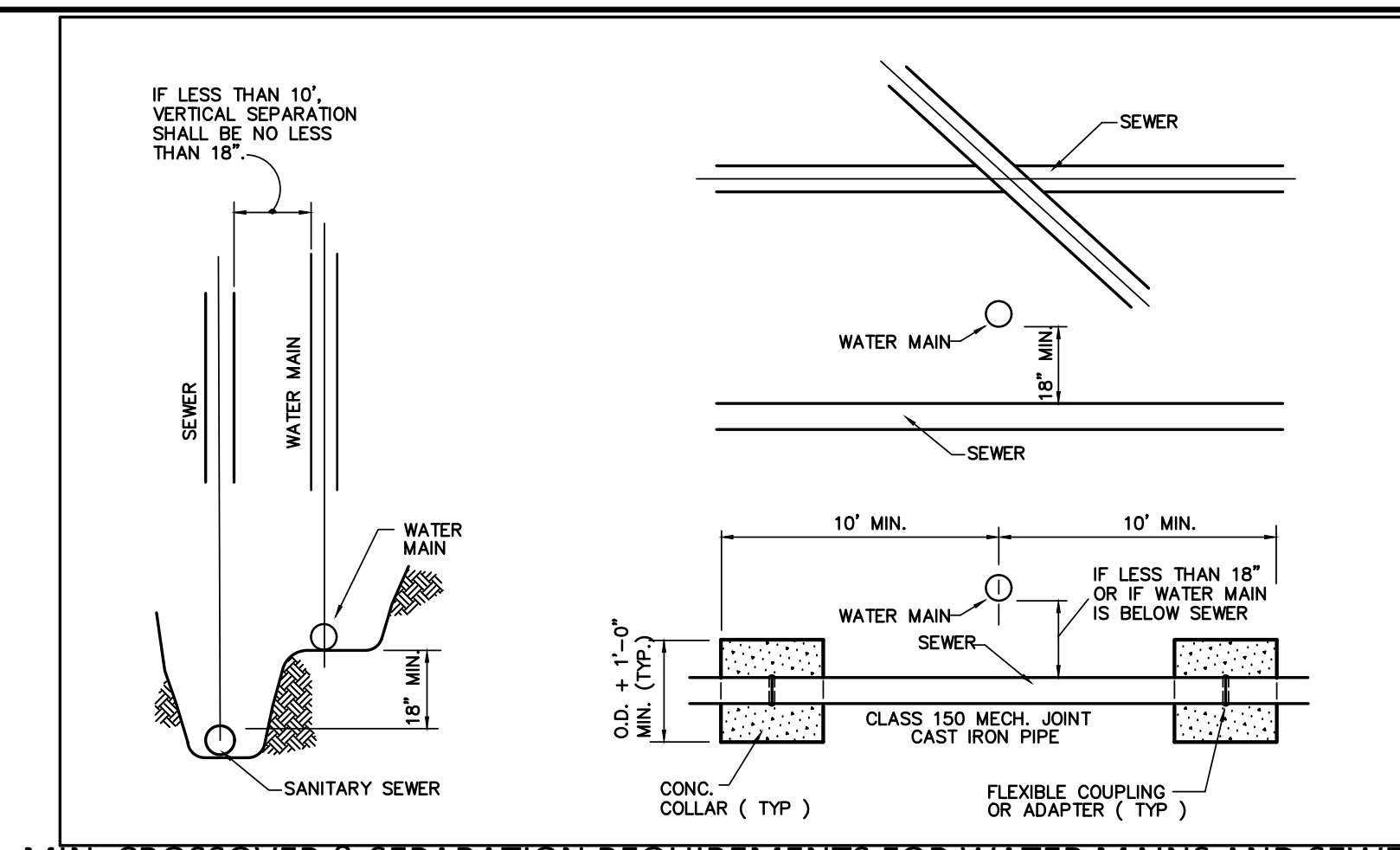
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DESIGNER: KANTOR



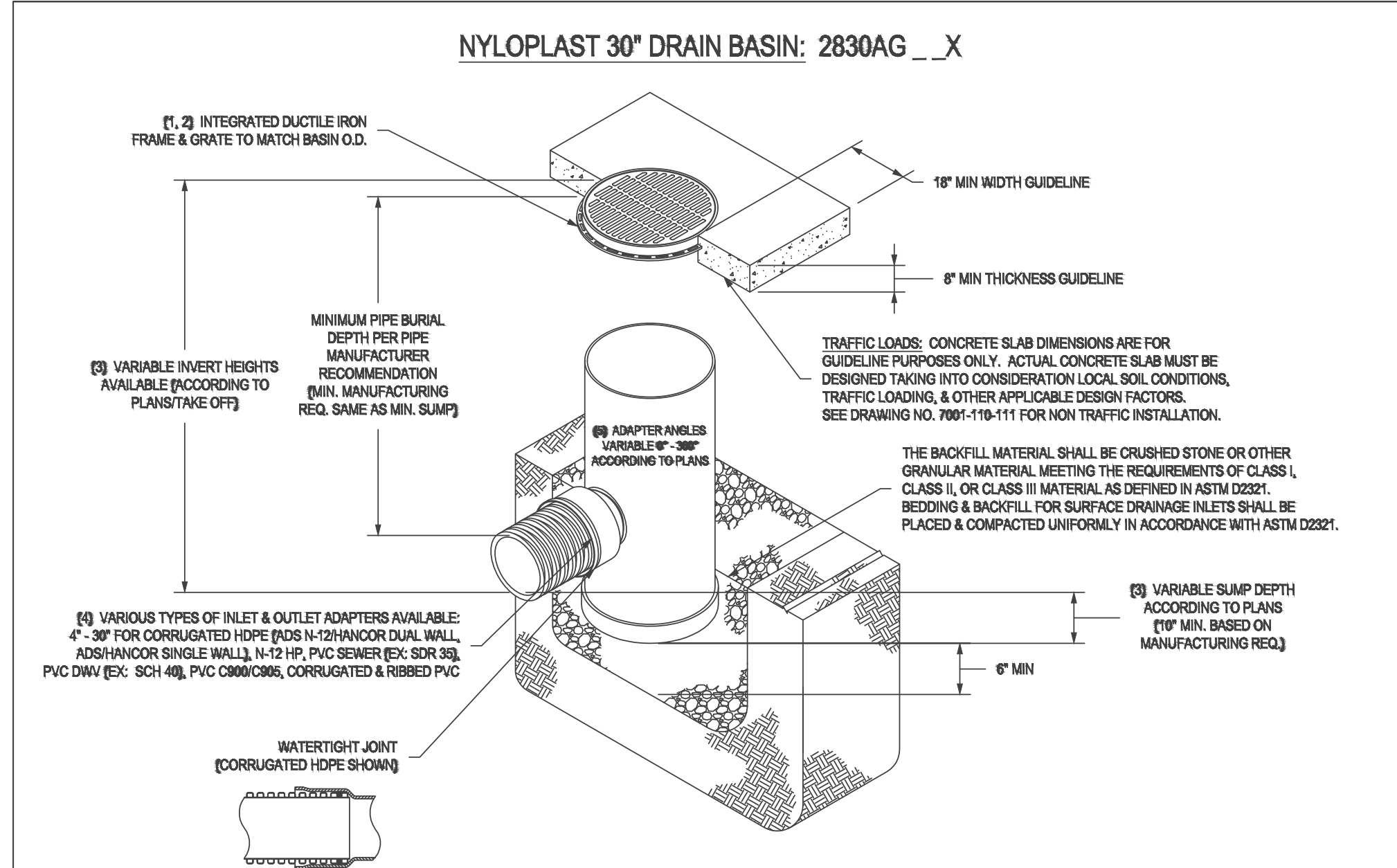
PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE



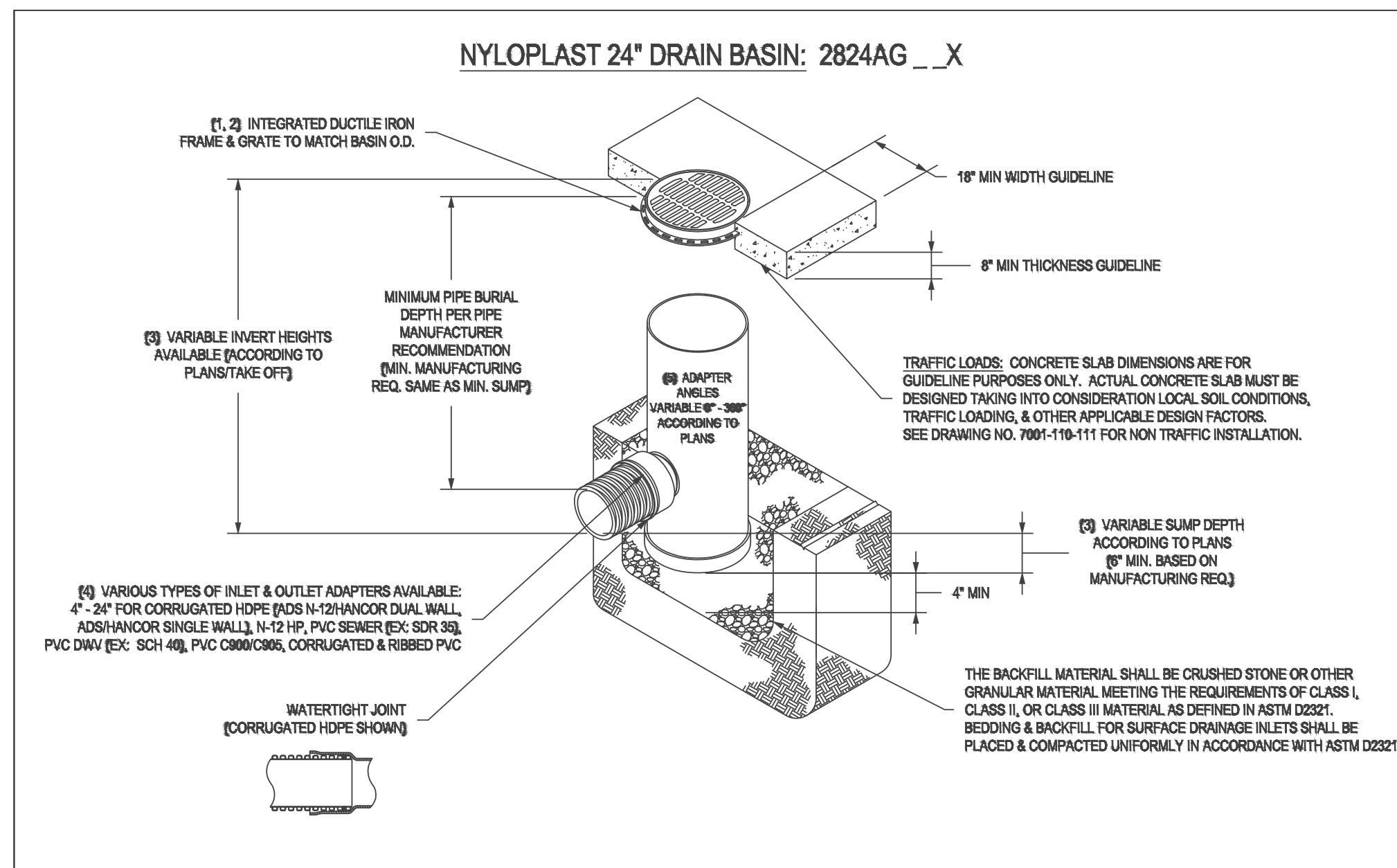
STORM SEWER & SANITARY SEWER CLEANOUT
NOT TO SCALE



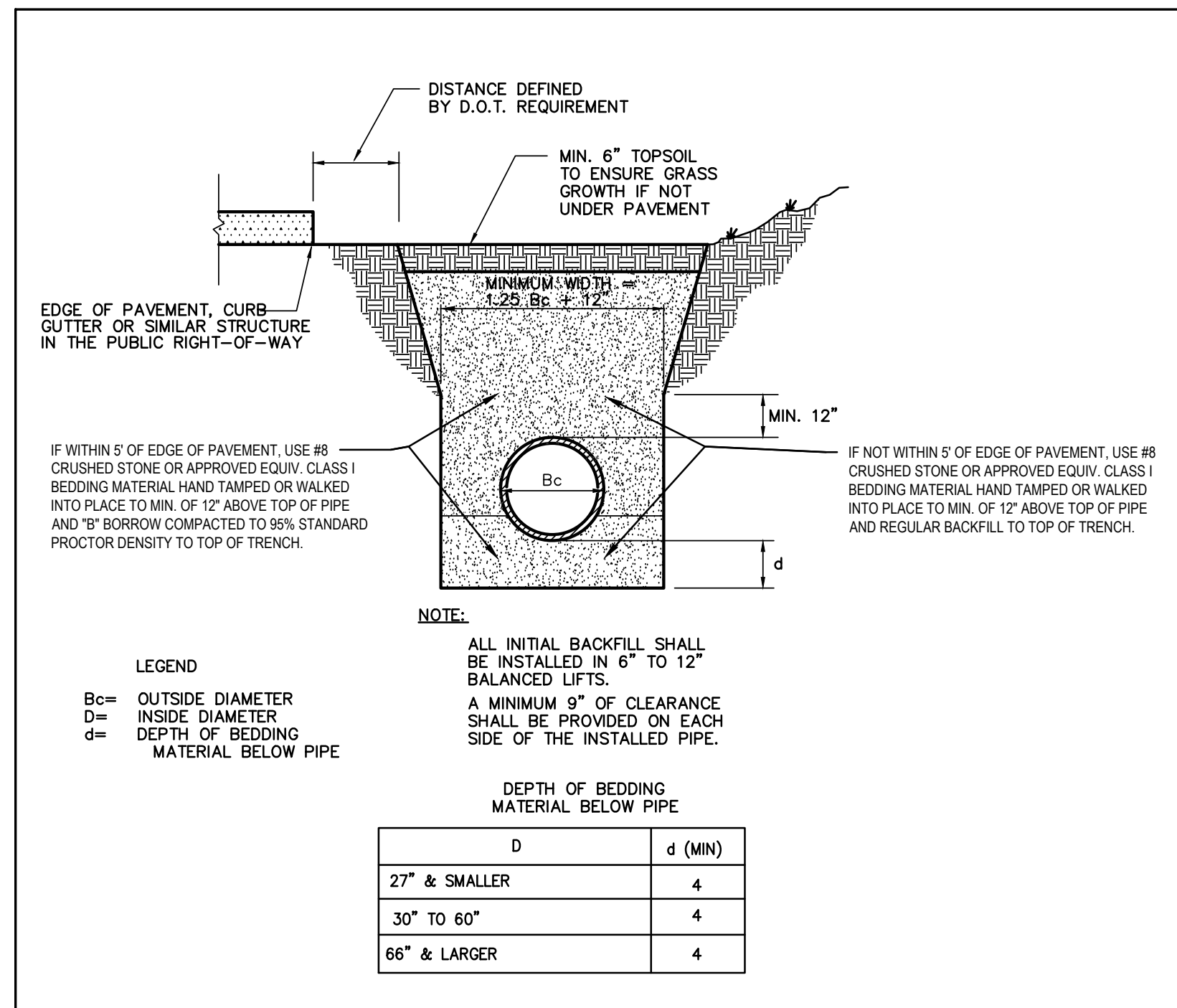
MIN. CROSSOVER & SEPARATION REQUIREMENTS FOR WATER MAINS AND SEWERS
NOT TO SCALE



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3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 4' DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 886-1700/5.		REVISED BY NHR		30 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL.
4 - DRAINAGE CONNECTION JOINT THICKNESS SHALL CONFORM TO ASTM D882 FOR CORRUGATED HDPE (N-12 HANCOOR DUAL WALL, N-12 HP, & PVC SEWER) & 3/16" TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 886-1700/2.		DATE 03-14-18		DWG NO. 7001-110-190 REV G
5 - ADAPTERS CAN BE INSTALLED ON ANY ANGLE 0° TO 300°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 886-1700/2.		DWG SIZE A	SCALE 1:40	SHEET 1 OF 1



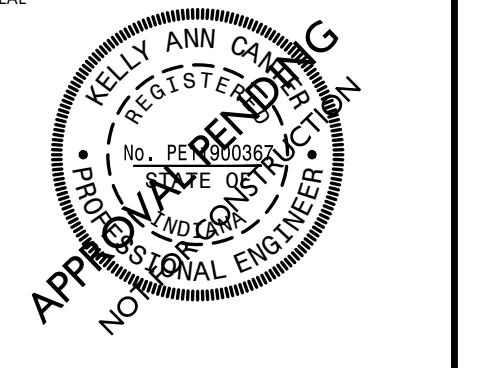
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4 - DRAINAGE CONNECTION JOINT THICKNESS SHALL CONFORM TO ASTM D882 FOR CORRUGATED HDPE (N-12 HANCOOR DUAL WALL, N-12 HP, & PVC SEWER).		DATE 03-14-18		DWG NO. 7001-110-192 REV E
5 - ADAPTERS CAN BE INSTALLED ON ANY ANGLE 0° TO 300°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 886-1700/2.		DWG SIZE A	SCALE 1:40	SHEET 1 OF 1



PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL
NOT TO SCALE

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SIGNATURE
Kelly Ann Calkins



DATE 12/18/2024

PROJECT NO. 2023.0212

NO.	DATE	DESCRIPTION



PROJECT TITLE

46062

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA

SHEET TITLE

UTILITY DETAILS

SHEET NUMBER

C4.5

PRINT DATE: 12/17/24 PLOT SCALE: 1:1 EDIT DATE: 12/17/24 - 2:37 PM EDITED BY: NBALENTINE DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE2 - DESIGN\CAD\C4.5 UTILITY DETAILS.DWG

PROJECT INFORMATION

ENGINEERED PRODUCT: ADS MANAGER
 ADS SALES REP: [REDACTED]
 PROJECT NO: [REDACTED]

ADS
 Advanced Drainage Systems, Inc.

ADS
 SiteASST
 FULL COVERAGE
 INSTALLATION INSTRUCTIONS
 VEG 08 01 19

GODDARD SCHOOL MC-3500
 NOBLESVILLE, IN, USA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-BEAM AND SHALL BE MANUFACTURED FROM VIRGIN IMPACT MODIFIED POLYPROPYLENE COPOLYMER.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F1418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBER" CHAMBER CLASSIFICATION 4405 (DESIGNATION B).
- CHAMBERS SHALL PROVIDE CONTRAINTS, UNRESTRICTED INTERNAL SPACES WITH NO INTERNAL SUPPORTS THAT WOULD IMPED FLOW OR LIMIT ACCESS FOR REPAIR.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL INSURE THAT THE LOAD FACTORS DESCRIBED IN THE ASHTO DESIGN SPECIFICATIONS, SECTION 12.2, ARE MET FOR THE CHAMBERS AND THE BACKFILL UNDER ALL LOADS. BASED ON THE ASHTO DESIGN TRUCK WITH COMBINATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD DETERMINATIONS DETERMINED IN ACCORDANCE WITH ASTM F2737, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF FIBERGLASS REINFORCED POLYESTER CORROGATED WALL STORMWATER COLLECTION CHAMBERS" (COVER STONE INCLUDED) (BASE STONE INCLUDED) (MAXIMUM PERMANENT 75% COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED VEHICLE, ASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STITCHING LINES.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 7".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONTACT SHALL BE GREATER THAN OR EQUAL TO ASHTO. THE ARCH IS DEFINED IN SECTION 2.8 OF ASTM F1418, AND TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES ABOVE 77° F / 27° C, CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD YELLOW COLOR.
- OTHER CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED UPON REVIEW BY THE SITE DESIGN ENGINEER OF COVER. THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE REVIEWED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL BE REVIEWED BY THE SITE DESIGN ENGINEER. THE EVALUATION SHALL BE GREATER THAN OR EQUAL TO 1.66 FOR (1) COVER LOAD AND 1.25 FOR (2) LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2737 AND BY SECTION 3 AND 12 OF THE ASHTO LIVE LOAD DESIGN SPECIFICATION FOR COVER LOADS.
 - THE TEST DERIVED COVER MODULUS AS SPECIFIED BY ASTM F2737 SHALL BE USED FOR PERMANENT COVER LOAD DESIGN EXCEPT THAT IT SHALL BE THE TESTER MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANHOLE TOPS TO BE DETERMINED BY SITE DESIGN ENGINEER. SET TO NOTE E233 FOR MANHOLE ZONING. DUE TO THE ADJUSTMENT OF THIS CHAMBER REQUIREMENTS ARE MET FOR A LOCATION. CONTRACTOR SHALL PLACE AND CONNECT WITH A VIBROSTAKE CONNECTION.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINE SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINE SYSTEMS, THE MEMBRANE LINE SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTECHNICAL PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLER.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
- CHAMBERS ARE NOT TO BE ENCASED WITH A DODGER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
- STORMTECH RECOMMENDS BACKFILL METHODS:
 - STORMTECH LOCATED OFF THE CHAMBER AND
 - BACKFILL SHOULD BE THE USUAL ANGLE OF SLOPE TO THE FOUNDATION STONE OR SURFACE.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 4" (100 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANHOLES MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- FOUNDATION STONE BEARING CAPACITIES MUST BE CLEAN, CRUSHED ANGULAR STONE OR PRESERVE ROW SPACING.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO AVOID THE CHAMBER IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "SUBSTORM CATCH" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO HEAVY TRUCKS, LOADERS, GRADERS OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
 - HEAVY LOADS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
- USE OF A COVER TO PROTECT THE FIBERGLASS BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "COVER AND PARK" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	ASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
1. FILL BELOW THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE (NOTE: THIS FILL MAY BE PART OF THE 'C' LAYER)	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEERS PLANS. CHECK PLANS FOR PREVIOUS SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRENGTH MATERIAL AND PREPARATION REQUIREMENTS.
2. FILL ABOVE THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE (NOTE: THIS FILL MAY BE PART OF THE 'C' LAYER)	SPRINKLER WELL-GRADED SAND/GRASS/AGGREGATE MIXTURES, 10% FINES OR GREATER.	ASHTO M 801 A, 1, 2, 4, 4.1	DESIGN COMPACTION OF FILL OF 200 mm OF MATERIAL OVER THE CHAMBERS IS REQUIRED. COMPACTION SHOULD BE IN ACCORDANCE WITH THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
3. FILL ABOVE THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE (NOTE: THIS FILL MAY BE PART OF THE 'C' LAYER)	MOST PREVIOUS SUBGRADE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO M 801 3, 3.97, 4, 4.07, 5, 5.6, 5.7, 6.1, 6.7, 7.8, 8, 8.8, 9, 10	DESIGN COMPACTION OF FILL OF 200 mm OF MATERIAL OVER THE CHAMBERS IS REQUIRED. COMPACTION SHOULD BE IN ACCORDANCE WITH THE STORMTECH MC-3500-4000 CONSTRUCTION GUIDE.
4. FOUNDATION STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE 'A' LAYERS TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE*	ASHTO M 801 3, 3.97, 4, 4.07, 5, 5.6, 5.7	NO COMPACTION REQUIRED.
5. FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT BOTTOM OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE*	ASHTO M 801 3, 3.97, 4, 4.07, 5, 5.6, 5.7	FLATE COMPACTION OR ROLL TO ACHIEVE A FLAT SURFACE.**

* RECYCLED CONCRETE AGGREGATE IS USED IN LIEU OF THE MATERIAL, SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 2.30 RECYCLED CONCRETE STRUCTURAL BACKFILL.

NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F1418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 4405 (DESIGNATION B).
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2737, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF FIBERGLASS REINFORCED POLYESTER CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" (COVER STONE INCLUDED) (BASE STONE INCLUDED) (MAXIMUM PERMANENT 75% COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED VEHICLE, ASHTO DESIGN TRUCK.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE CAPACITY OF FOUNDATION STONE WITH COMBINATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED FULLY TO THE EXCAVATION WALL FOR BOTH DIRECTIONS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STITCHING LINES.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 7".
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INSPECTION & MAINTENANCE

STEP 1: INSPECT CHAMBER FOR DAMAGE TO THE ELEMENTS

- INSPECTION PORTS IF PRESENT
- REMOVAL OF COVER OR UNPAVED FINISHED GRADE
- REMOVAL AND CLEAN FLEXIBLE FILTER IF INSTALLED
- USING A BRUSH AND 3% HOCl SOLUTION, REMOVE ALL DEBRIS FROM THE SURFACE OF THE CHAMBER
- IF REMOVAL IS AT OR ABOVE 7' (2100 mm) HEIGHT TO STEP 2. IF NOT, PROCEED TO STEP 2.
- ALWAYS WEAR SAFETY GEAR

STEP 2: CLEAN OUT ISOLATOR ROW PLUS USING THE JETTING PROCESS

- CLEAN ALL MATERIALS FROM THE ISOLATOR ROW PLUS THROUGH OUTLET
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS

STEP 3: REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS

STEP 4: INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM

NOTES:

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL, BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

* THE PARTY DESIGNER/CHECKER CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FROM A SUPPLIER TO INSPECTION PORT INSTALLATION.

PROPOSED LAYOUT

184	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	858.35
16	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	852.35
18	STONE ABOVE (in)	TOP OF STONE:	851.85
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	851.85
40	STONE VOID	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	851.85
	INSTALLED SYSTEM VOLUME (CF)	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	851.85
36983	PERIMETER STONE (INCLUDED)	TOP OF MC-3500 CHAMBER:	850.35
	(BASE STONE INCLUDED)	24" x 24" BOTTOM MANIFOLD INVERT:	846.77
10292	SYSTEM AREA (SF)	24" ISOLATOR ROW PLUS INVERT:	846.77
473.3	SYSTEM PERIMETER (ft)	18" x 18" BOTTOM MANIFOLD INVERT:	846.75
		BOTTOM OF MC-3500 CHAMBER:	846.63
		UNDERDRAIN INVERT:	845.85
		BOTTOM OF STONE:	845.85

PROPOSED ELEVATIONS:

179.20'
188.58'

PART TYPE

ITEM ON LAYOUT	DESCRIPTION	INVERT	MAX FLOW
A	24" BOTTOM PRE-CORED END CAP, PART# MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"	
B	18" BOTTOM PRE-CORED END CAP, PART# MC3500IEPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS	1.77"	
C	INSTALL FLAMP ON 24" ACCESS PIPE / PART# MCLAMP	2.06"	
D	24" x 24" BOTTOM MANIFOLD, ADS N-12	1.77"	
E	18" x 18" BOTTOM MANIFOLD, ADS N-12	1.77"	
F	PIPE CONNECTION		8.0 CFS OUT
G	CONCRETE STRUCTURE		
H	CONCRETE STRUCTURE		
I	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		
J	10" SET DETAIL		

***INVERT ABOVE BASE OF CHAMBER**

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES:

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

UNDERDRAIN DETAIL

MC-3500 TECHNICAL SPECIFICATION

MC-3500 END CAP INSERTION DETAIL

MC-3500 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

STEP 1: INSPECT CHAMBER FOR DAMAGE TO THE ELEMENTS

- INSPECTION PORTS IF PRESENT
- REMOVAL OF COVER OR UNPAVED FINISHED GRADE
- REMOVAL AND CLEAN FLEXIBLE FILTER IF INSTALLED
- USING A BRUSH AND 3% HOCl SOLUTION, REMOVE ALL DEBRIS FROM THE SURFACE OF THE CHAMBER
- IF REMOVAL IS AT OR ABOVE 7' (2100 mm) HEIGHT TO STEP 2. IF NOT, PROCEED TO STEP 2.
- ALWAYS WEAR SAFETY GEAR

STEP 2: CLEAN OUT ISOLATOR ROW PLUS USING THE JETTING PROCESS

- CLEAN ALL MATERIALS FROM THE ISOLATOR ROW PLUS THROUGH OUTLET
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
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- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE UPSTREAM END OF ISOLATOR ROW PLUS
- REMOVE COVER FROM STRUCTURE DOWNSTREAM END OF ISOLATOR ROW PLUS

STEP 3: REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS

STEP 4: INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM

NOTES:

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL, BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

* THE PARTY DESIGNER/CHECKER CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FROM A SUPPLIER TO INSPECTION PORT INSTALLATION.

StormTech Chamber System

4640 TRULIANA BLVD
 HIGH POINT, NC 28626
 1-800-733-7472

ADS

GODDARD SCHOOL MC-3500
 NOBLESVILLE, IN, USA

DATE: 12/13/2024
 DRAWN: NIB
 CHECKED: IVA
 PROJECT #: [REDACTED]

DESCRIPTION: 1-800-821-6710 | WWW.STORMTECH.COM
 DATE: [REDACTED]
 CUIK: [REDACTED]

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SHEET 2 OF 5

AquaShield® Polymer Coated Steel (PCS) Stormwater Treatment System

Projected View SCALE 1:70

Plan View SCALE 1:40

Elevation View SCALE 1:40

Standard Detail

NOTES:

- As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
- XC-4 inlet/outlet pipe size ranges up to 27 in [686 mm].
- XC-4 chamber height may vary up to 99 in [2515 mm], depending on inlet/outlet pipe size.
- Orientation may vary from a minimum of 90° to a maximum of 180°. Clockwise or counterclockwise orientation as needed.

VERIDUS GROUP

6280 N. Shadeland Avenue, Suite A
 Indianapolis, IN 46220
 Phone: (317) 598-6647
 www.theveridusgroup.com

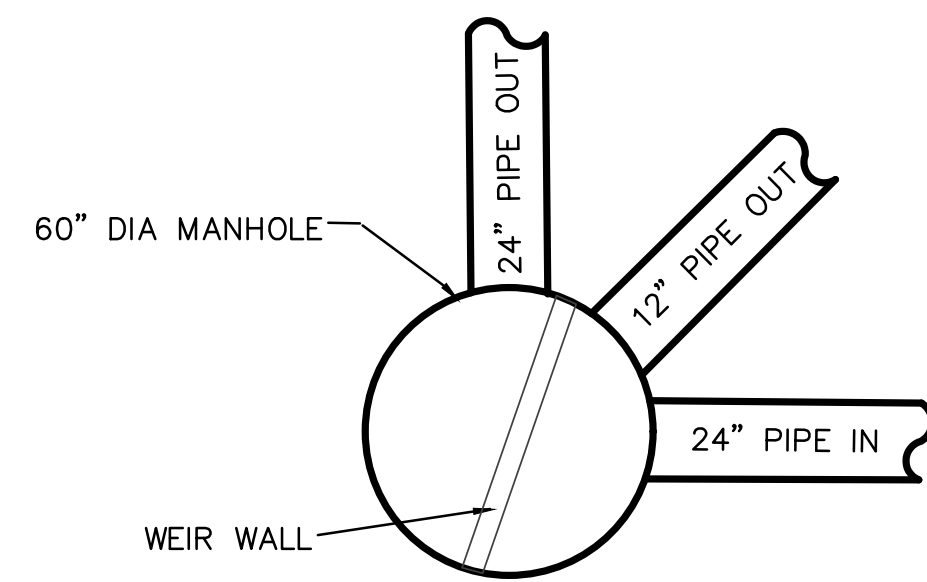
THE GODDARD SCHOOL FOR EARLY CHILDHOOD DEVELOPMENT DETAILED DEVELOPMENT PLAN

4903 CASTAMERE DRIVE
 NOBLESVILLE, INDIANA

46062

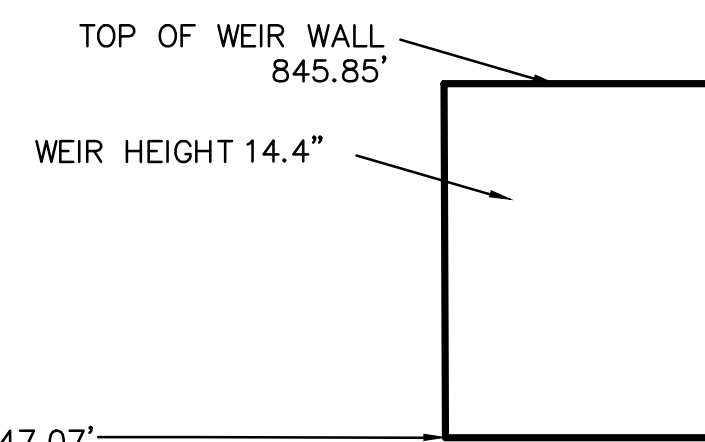
UTILITY DETAILS

SHEET NUMBER: C4.6



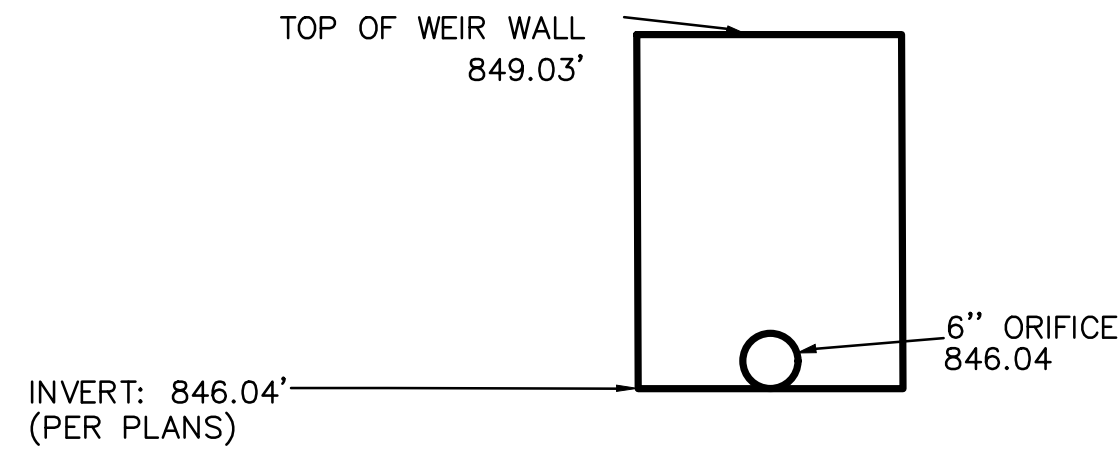
WEIR WALL TO BE CONSTRUCTED OUT OF CAST IN PLACE CLASS A OR HIGHER CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. WEIR WALL SHALL BE DOWELED INTO BOTH SIDES OF STRUCTURE WITH RECOMMENDED SPACING OF 9"-12" O.C. REFER TO INDOT SPECIFICATION SECTION 707.04(C).

DIVERSION STRUCTURE DETAIL (PLAN VIEW)
NOT TO SCALE



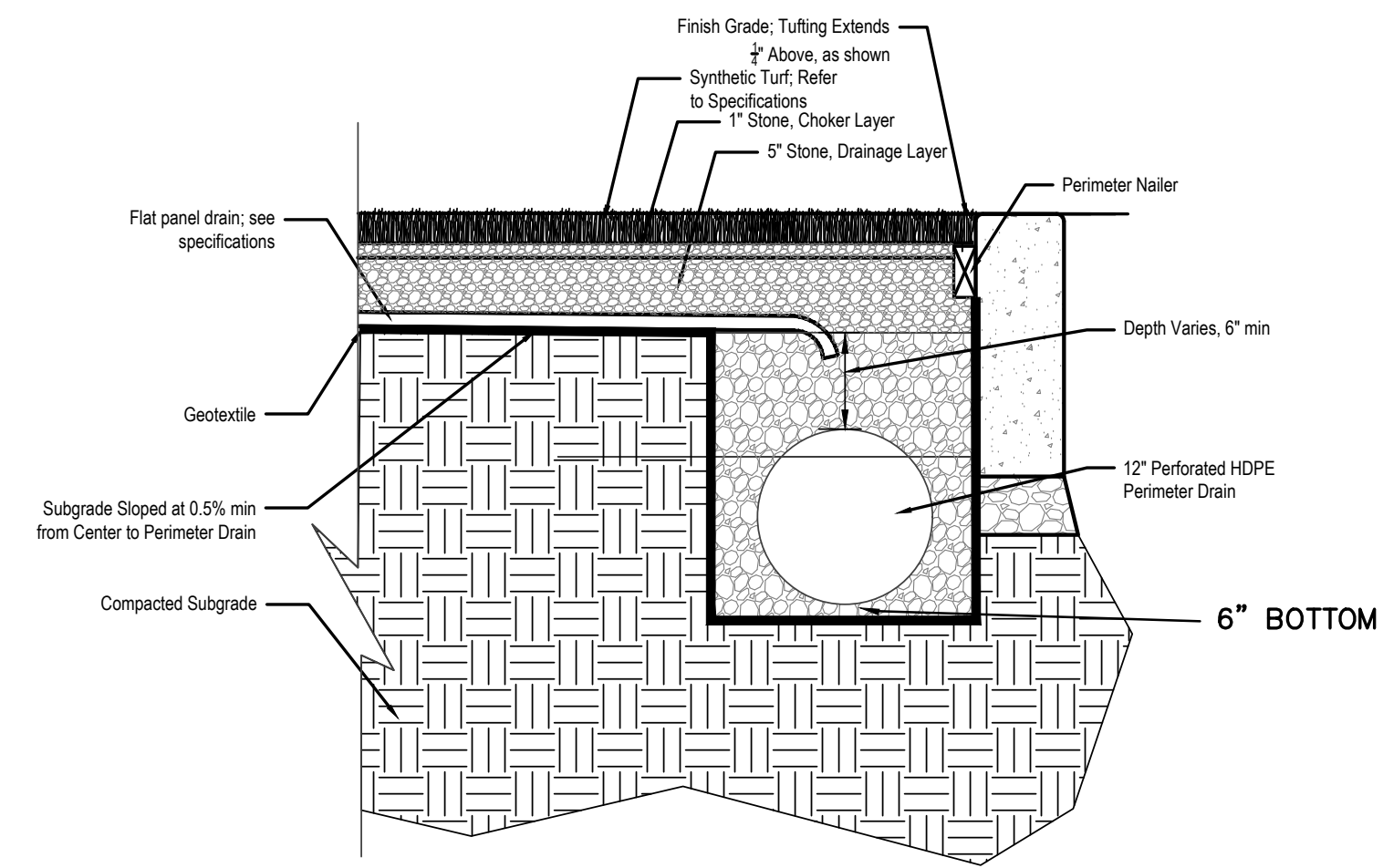
INVERT: 847.07'
(PER PLANS)

STR 18 DIVERSION STRUCTURE DETAIL WEIR WALL
NOT TO SCALE

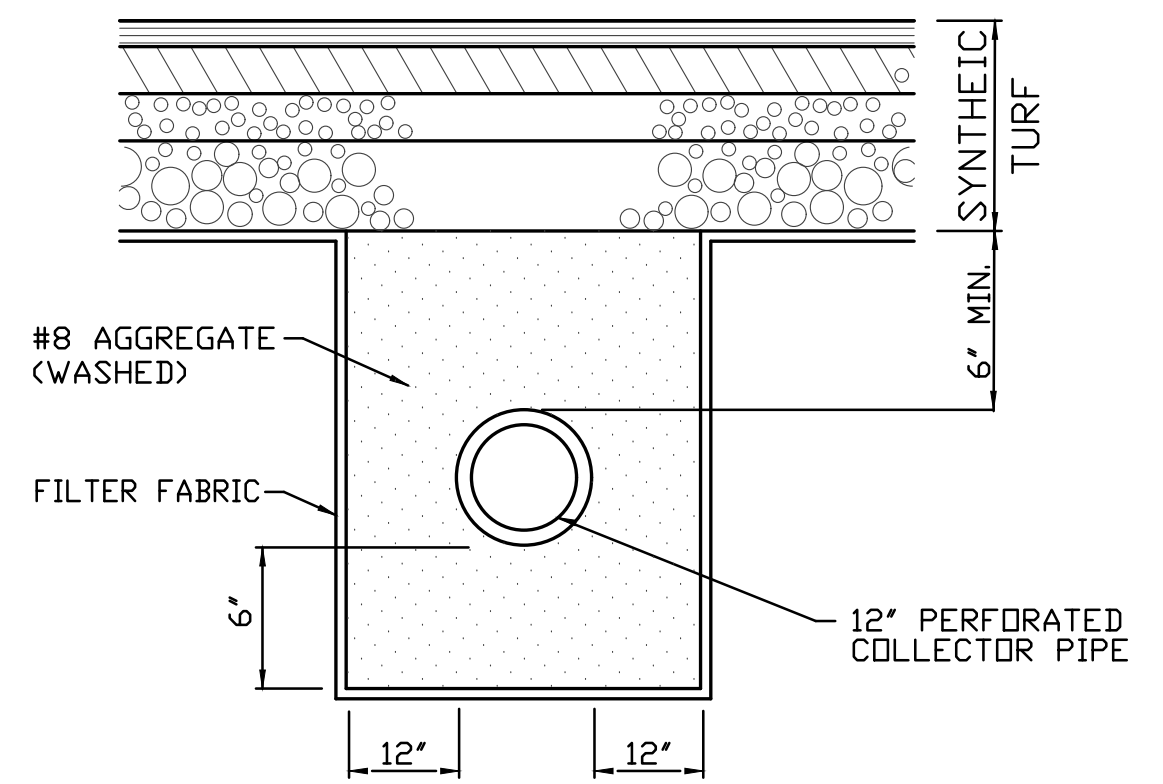


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(PER PLANS)

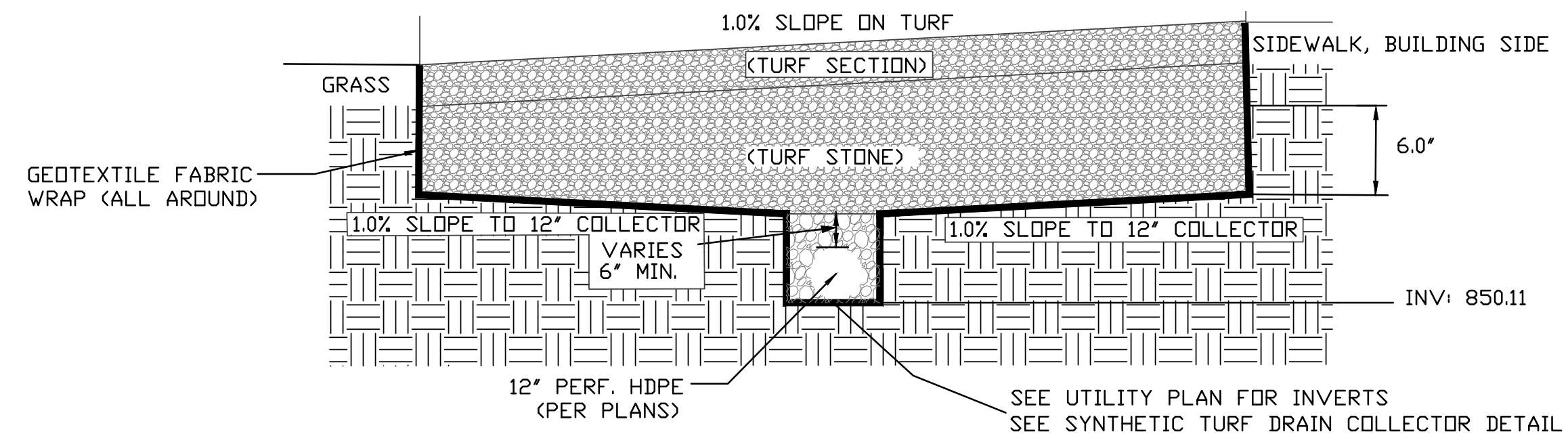
STR 16 OUTLET CONTROL STRUCTURE DETAIL WEIR WALL
NOT TO SCALE



SYNTHETIC TURF AND SUBGRADE DRAINAGE DETAIL
NOT TO SCALE



SYNTHETIC TURF COLLECTOR DRAIN DETAIL
NOT TO SCALE

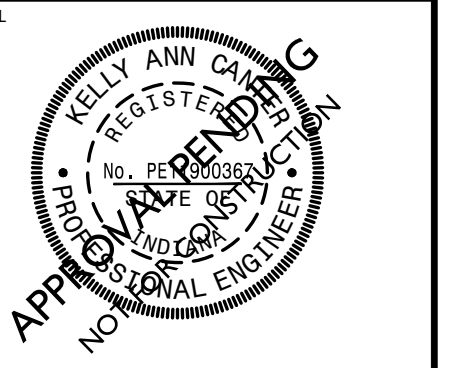


SYNTHETIC FIELD UNDERGROUND STONE DETAIL
NOT TO SCALE

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SIGNATURE
Kelly Ann Cantor



12/18/2024

DATE: 12/18/2024
PROJECT NO: 2023.0212

REVISIONS	NO.	DATE	DESCRIPTION



PROJECT TITLE

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER

C4.7

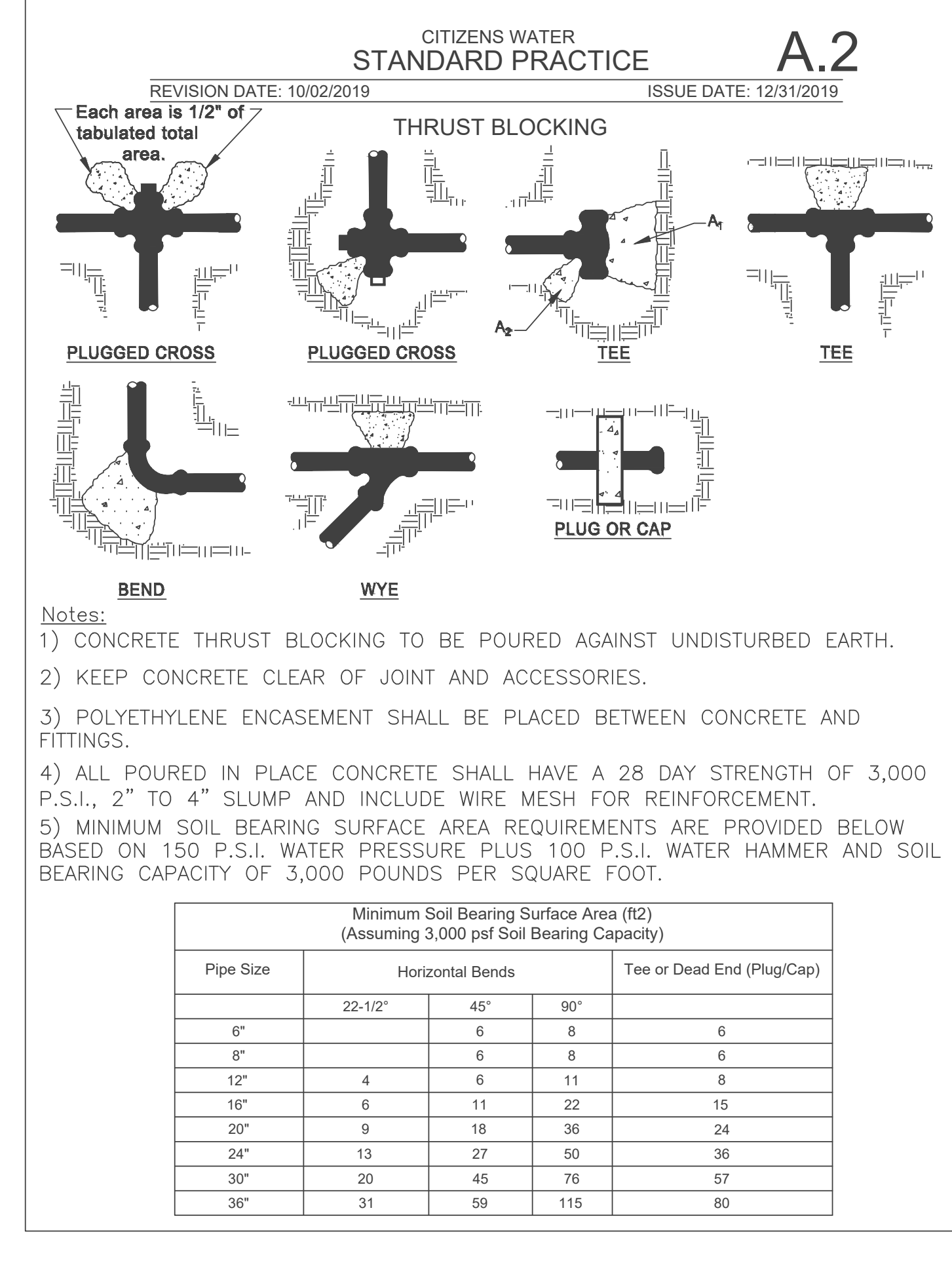
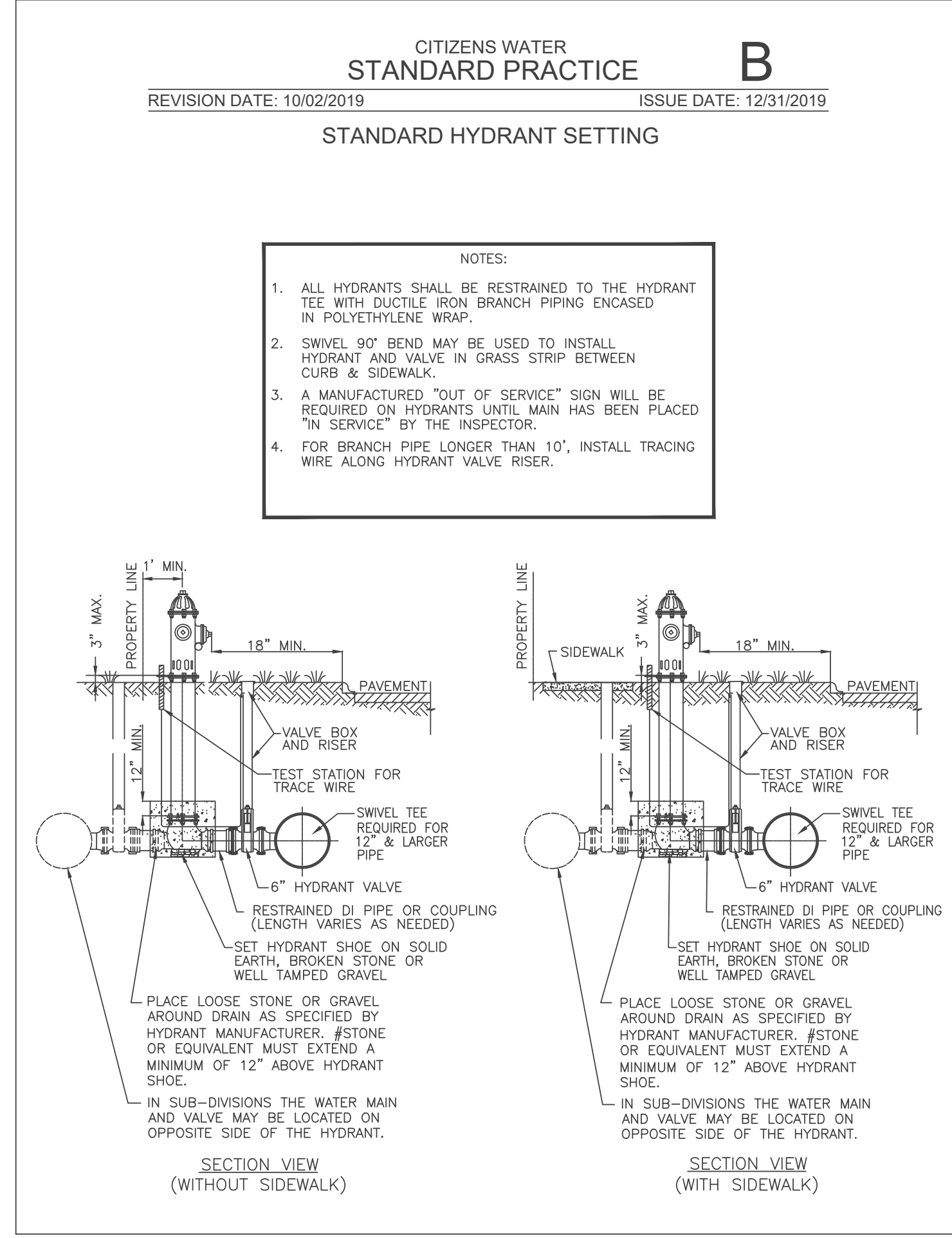
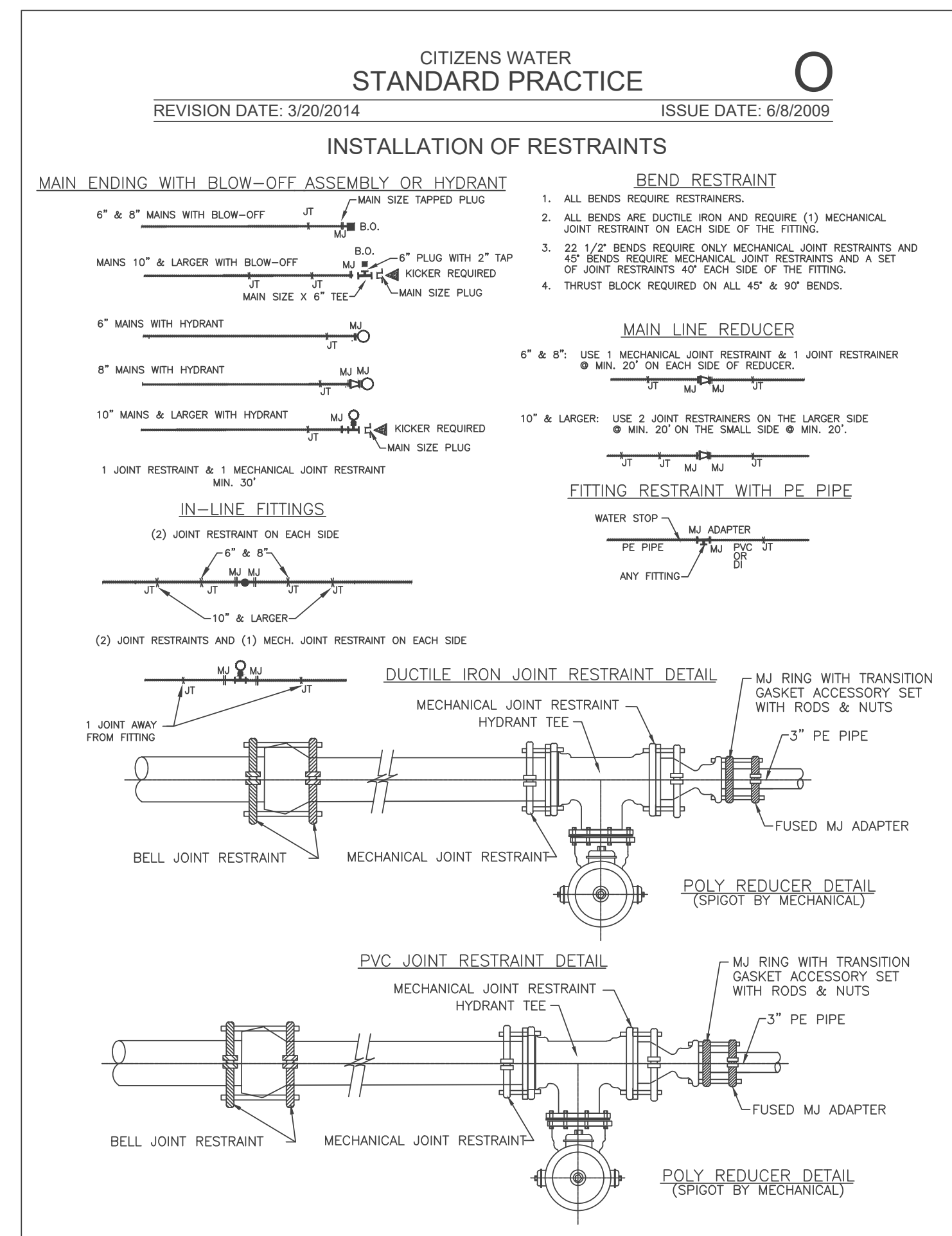
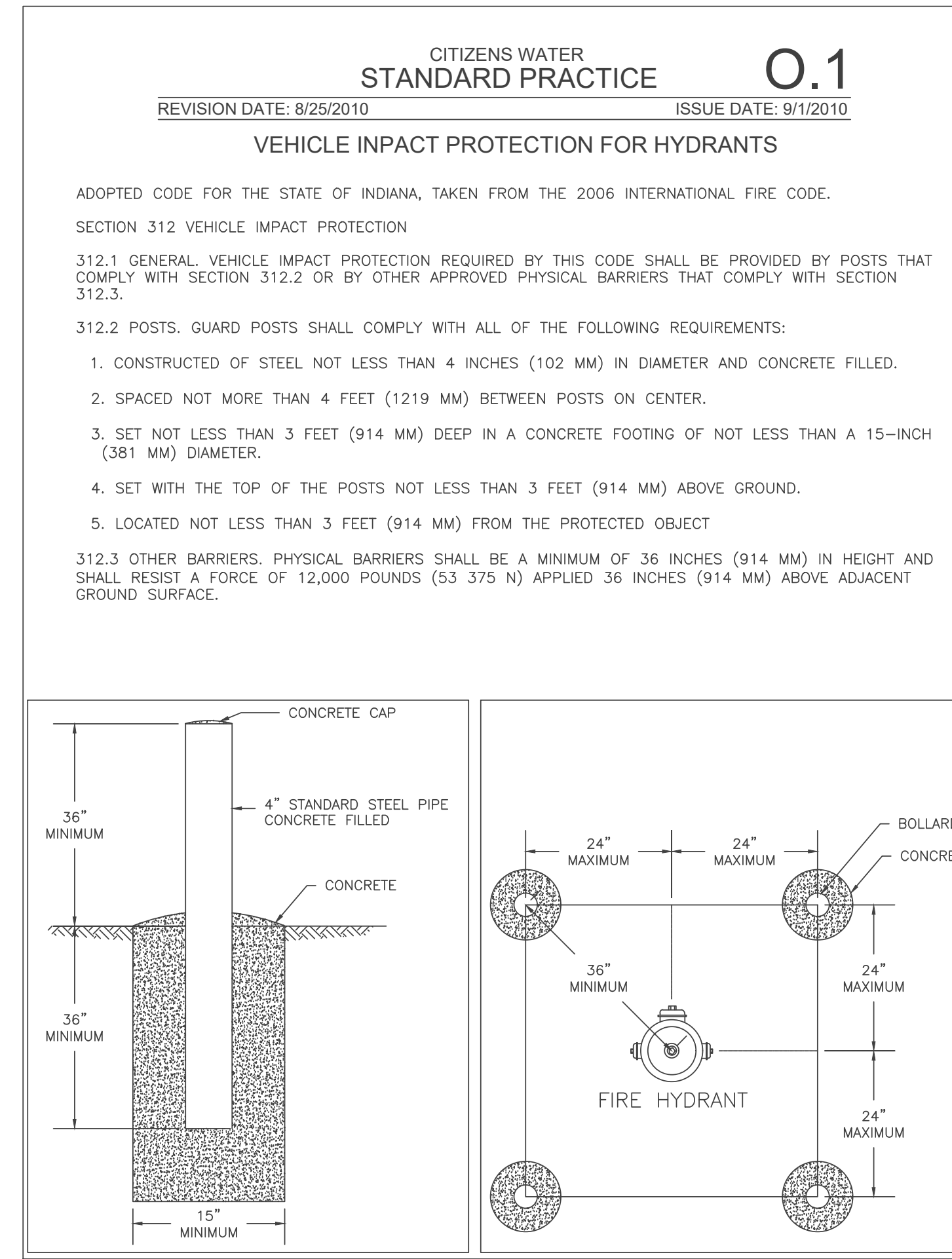
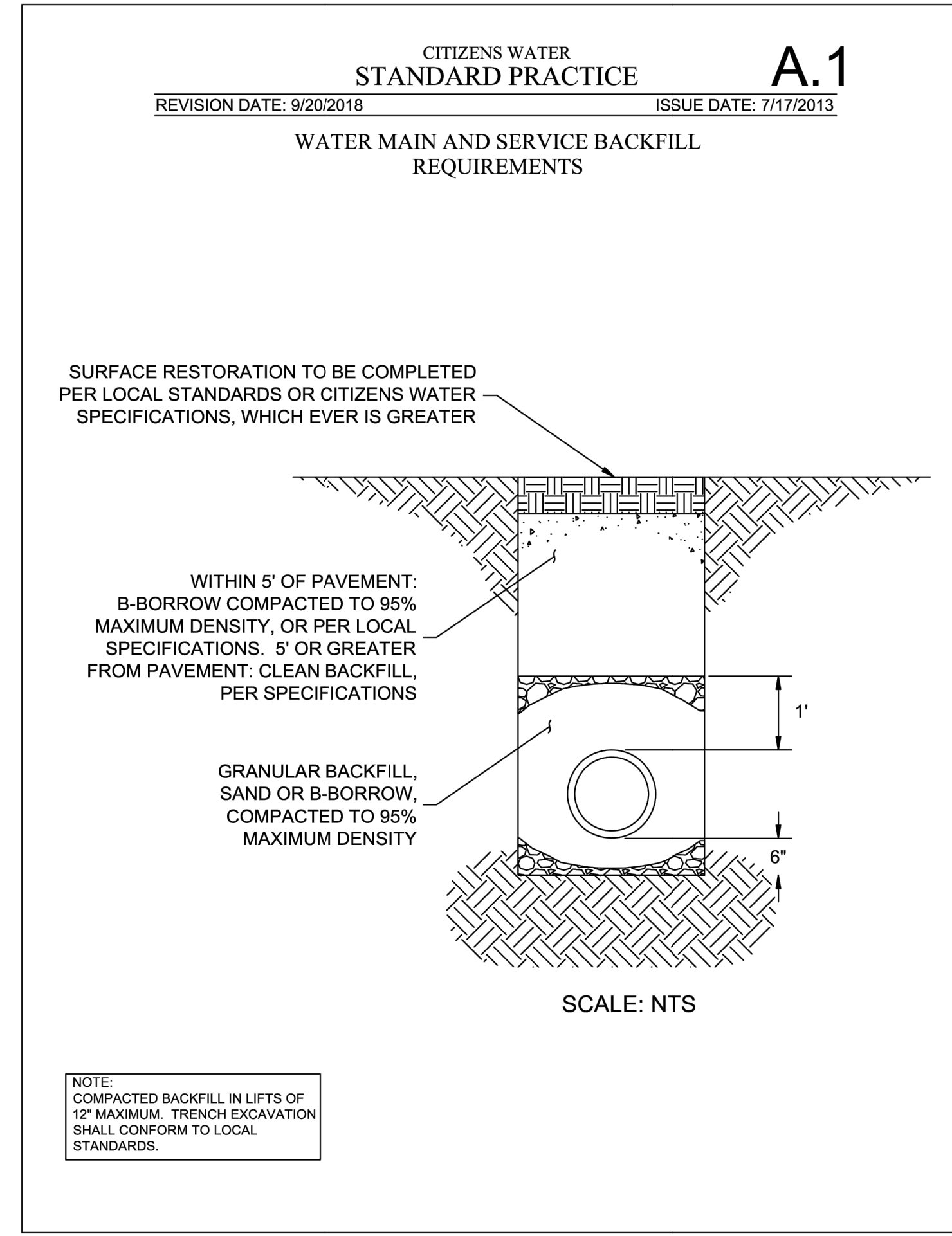
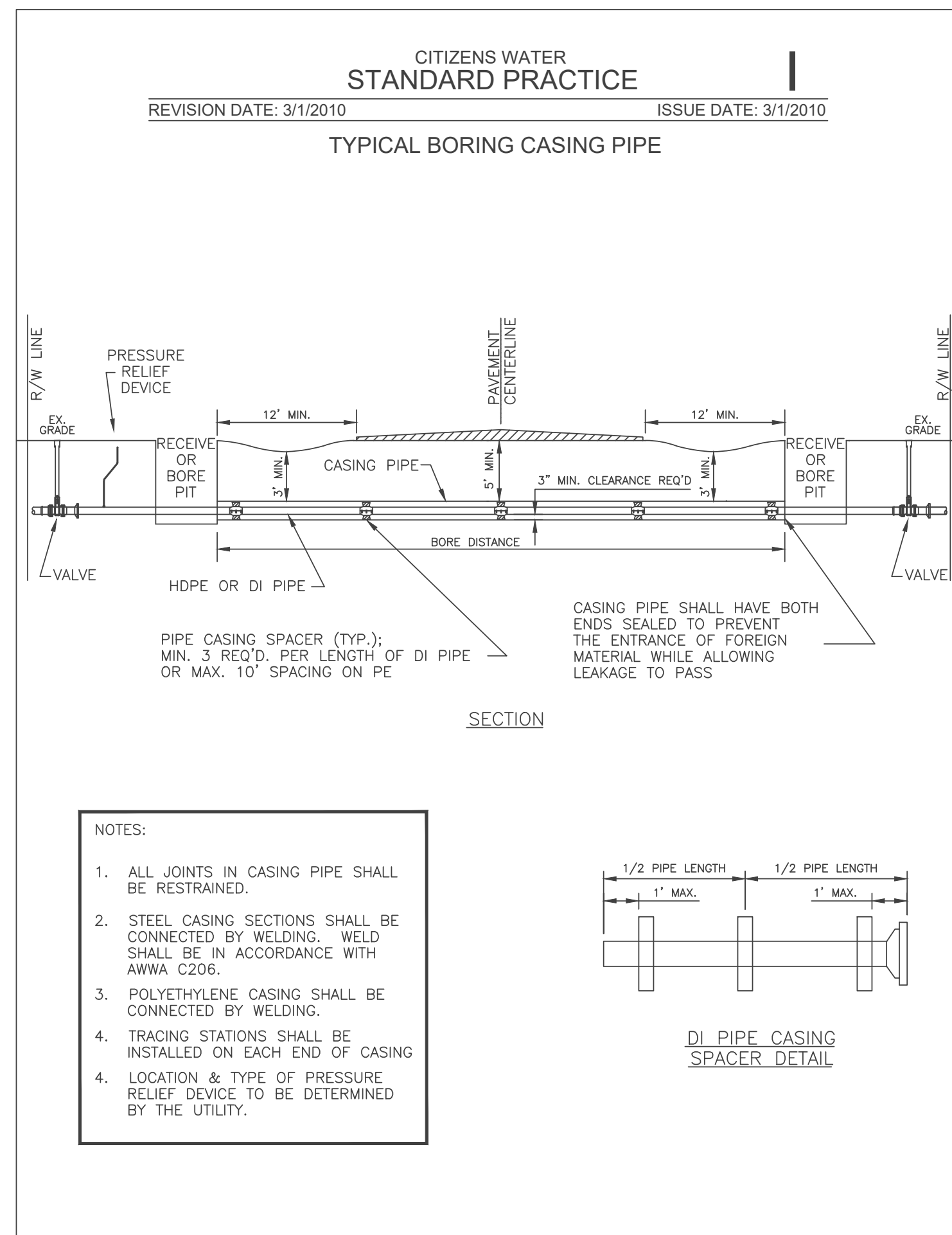
SEE ALSO:

- CEG WATER STANDARDS MANUAL
- CITY OF NOBLESVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS

SEE ALSO CITIZENS ENERGY WATER STANDARDS FOR SPECIFICATIONS AND DETAILS.

<https://info.citizensenergygroup.com/permits-and-forms>

<https://2545024.fs1.hubspotusercontent-na1.net/hubfs/2545024/site/permits%20and%20forms%20documents/2024%20Water%20Standards%20Manual%20Updated.pdf>



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SIGNATURE

SEAL

12/18/2024

DATE: 12/18/2024
 PROJECT NO: 2023.0212

REVISIONS

NO.	DATE	DESCRIPTION



PROJECT TITLE

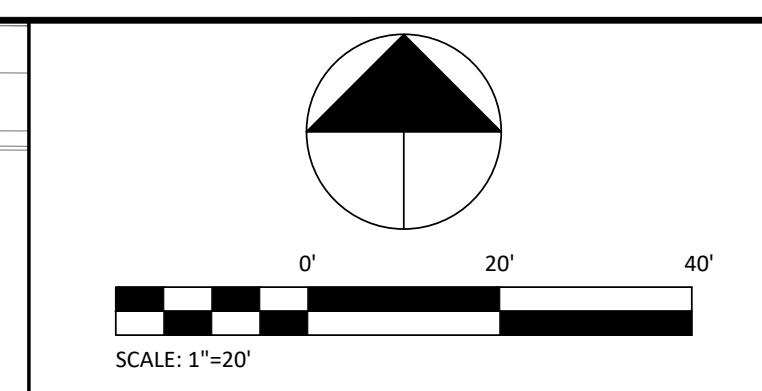
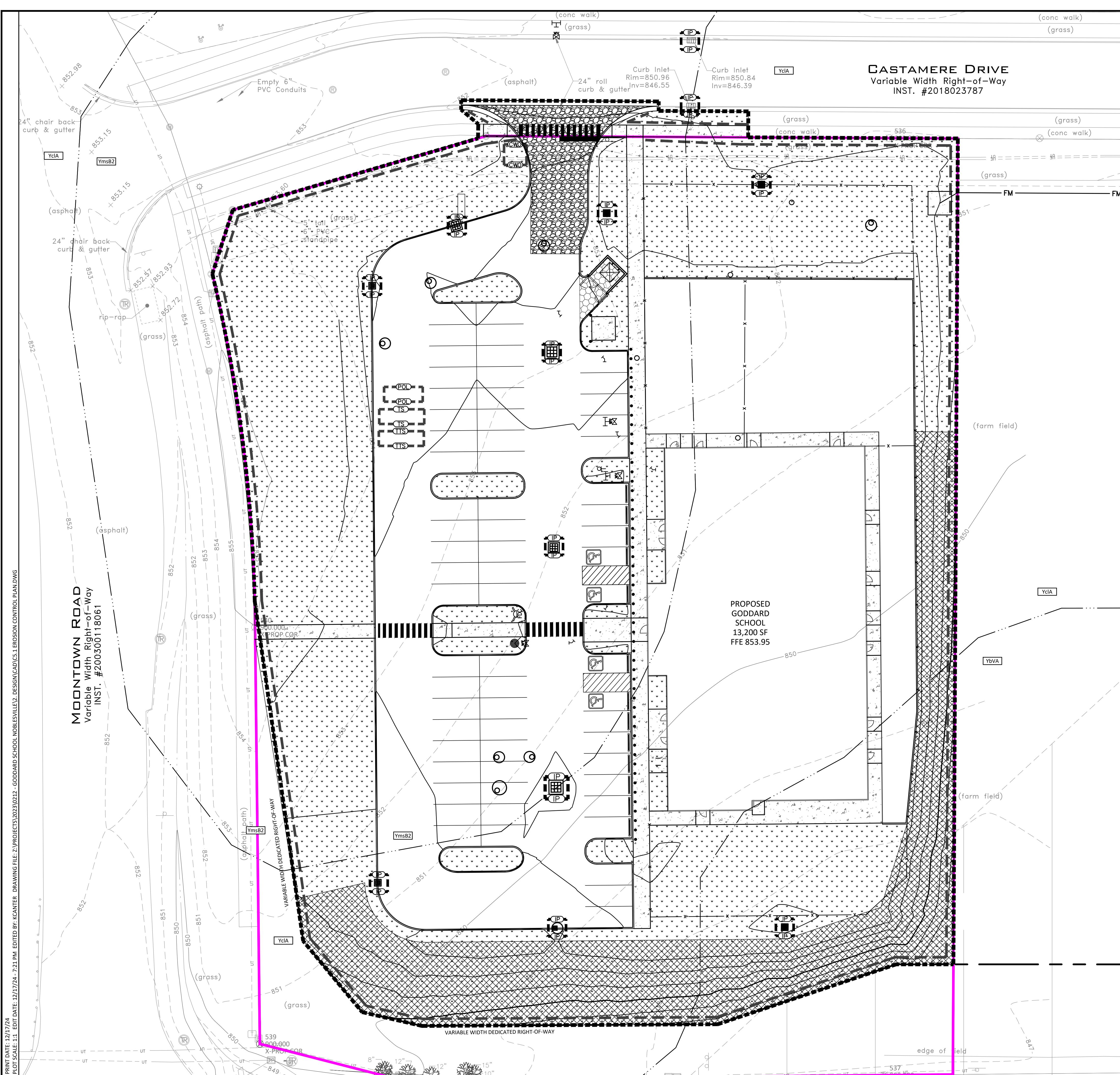
THE GODDARD SCHOOL
 FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
 4903 CASTAMERE DRIVE
 NOBLESVILLE, INDIANA 46062

SHEET TITLE
UTILITY DETAILS

SHEET NUMBER

C4.8

PRINT DATE: 12/17/24 PLOT SCALE: 1:1 EDIT DATE: 12/17/24 - 2:37 PM EDITED BY: NBALENTINE DRAWING FILE: Z:\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE2 - DESIGN\CAD\C4.5 UTILITY DETAILS.DWG



EROSION CONTROL LEGEND

- 668 EXISTING CONTOUR
- 668 PROPOSED CONTOUR
- SF TEMPORARY SILT FENCE
- CONSTRUCTION LIMITS
- CF TEMPORARY CONSTRUCTION FENCE
- IP TEMPORARY INLET PROTECTION
- OP TEMPORARY OUTLET PROTECTION (10' LENGTH)
- CWO CONCRETE WASHOUT AREA
- POLO PORT-O-LET LOCATION
- TS TEMPORARY MATERIAL STORAGE AREA
- TTS TEMPORARY TRASH STORAGE AREA
- TSS TEMPORARY SOIL STORAGE AREA
- EROSION CONTROL BLANKET / EROSION CONTROL GROUND COVER AS APPROVED BY THE ENGINEER
- GRAVEL CONSTRUCTION ENTRANCE
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AND / OR VEGETATION AFTER CONSTRUCTION. REFER TO LANDSCAPE ARCHITECT FOR SEEDING REQUIREMENTS.

- HYDROLOGIC SOIL GROUP BOUNDARY
- Br Brookston silty clay loam, 0 to 2 percent slopes
- CYA Crosby Silt Loam, clay loam-Urban land complex, 0 to 2 percent slopes
- YBVA Brookston silty clay loam-Urban land complex, 0 to 2 percent slopes
- YCIA Crosby silt loam, fine lamyu subsoil-Urban land complex, 0 to 2 percent slopes
- YmsB2 Miami silt loam-Urban land complex, 2 to 6 percent slopes, eroded

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-077, DATED 11/02/2023.

GENERAL NOTES

1. LAND ALTERATIONS WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT MINIMIZE EROSION.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING TREES AND ETC. WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
11. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON THE FLOOD INSURANCE RATE MAP FOR HAMILTON COUNTY, INDIANA PANEL 18057C0137G DATED NOVEMBER 19, 2014.
12. SCHEDULE OF EARTHWORK ACTIVITIES:
 - A. THE DURATION OF THE TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS WHEN ACTIVITY CEASES FOR MORE THAN 14 DAYS OR AS DIRECTED BY THE ENGINEER.
 - B. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
 - C. STOCKPILES SHALL BE LOCATED AS SHOWN. STOCKPILES SHALL HAVE SILT FENCE AROUND THE PERIMETER AND BE SEEDED IF IT IS UNDISTURBED FOR MORE THAN 14 CONSECUTIVE DAYS.
13. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.

EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION
— / —	SIGN / TWO POST SIGN
⊗	WATER VALVE/FIRE HYD/METER
⊠	TELE/FIBER OPTIC/GAS MARKER
⊕	GAS METER / VALVE
—	CLEAN-OUT
⊠	ELEC. METER BOX/TRANSFORMER
⊠	ELEC. / TELEPHONE PEDESTAL
⊕	GUARD POST/POST WITH LIGHT
⊠	AIR CONDITIONER / GENERATOR
⊠	MAGNAIL SET/FOUND
⊠	REBAR SET/FOUND
⊠	SQUARE / ROUND / CURB INLET
⊠	TRAFFIC/COMBO/ POWER POLE
⊠	LIGHT POLE - SQUARE / ROUND
⊠	CONIFEROUS TREE & SIZE
⊠	DECIDUOUS TREE & SIZE
⊠	DRAINAGE /SANITARY MANHOLE
⊠	COMBINATION/MISC. LID MANHOLE
⊠	BEEHIVE ROUND/SQUARE INLET
⊠	GUY WIRE / GROUND LIGHT
—	UNDG. WATER LINE
—	UNDG. GAS LINE
—	UNDG. TELEPHONE LINE
—	UNDG. ELECTRIC LINE
—	OVERHEAD ELE. & TEL
—	OVERHEAD ELE. TEL & CAB
—	OVERHEAD ELECTRIC
VCP	vitriified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

HCSO 104 PUBLISHED ELEVATIONS 809.09 (NAVD 88)
MEASURED ELEVATION 808.99 (NAVD 88)

A STATE SURVEY STANDARD DISK, STAMPED 104 SET IN THE TOP OF A CONCRETE POST FLUSH WITH THE GROUND, LOCATED AT THE SOUTHWEST CORNER OF MILL CREEK ROAD AND THE OLD CENTRAL INDIANA RAILROAD.

CSC TBM #3044 ELEVATION 850.88

MAG NAIL WITH HAMILTON COUNTY WASHER FOUND ON THE SOUTHWEST CORNER OF THE CONCRETE BASE OF A TRAFFIC POLE, LOCATED 75.7 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD AND 57.8 FEET NORTH OF THE CENTERLINE OF STATE ROAD 32.

CSC TBM #1

A CUT "X" SET OF THE SOUTH SIDE OF A CONCRETE WALK LOCATED 26.7 FEET SOUTH OF THE CENTERLINE OF CASTAMERE DRIVE AND 433.3 FEET EAST OF THE CENTERLINE OF MOONTOWN ROAD.

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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SIGNATURE: *Nelly Carter*

SEAL: *Professional Engineer*

DATE: 12/18/2024

PROJECT NO: 2023.0212

REVISIONS:

NO.	DATE	DESCRIPTION



PROJECT TITLE

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA 46062

SHEET TITLE

EROSION CONTROL PLAN

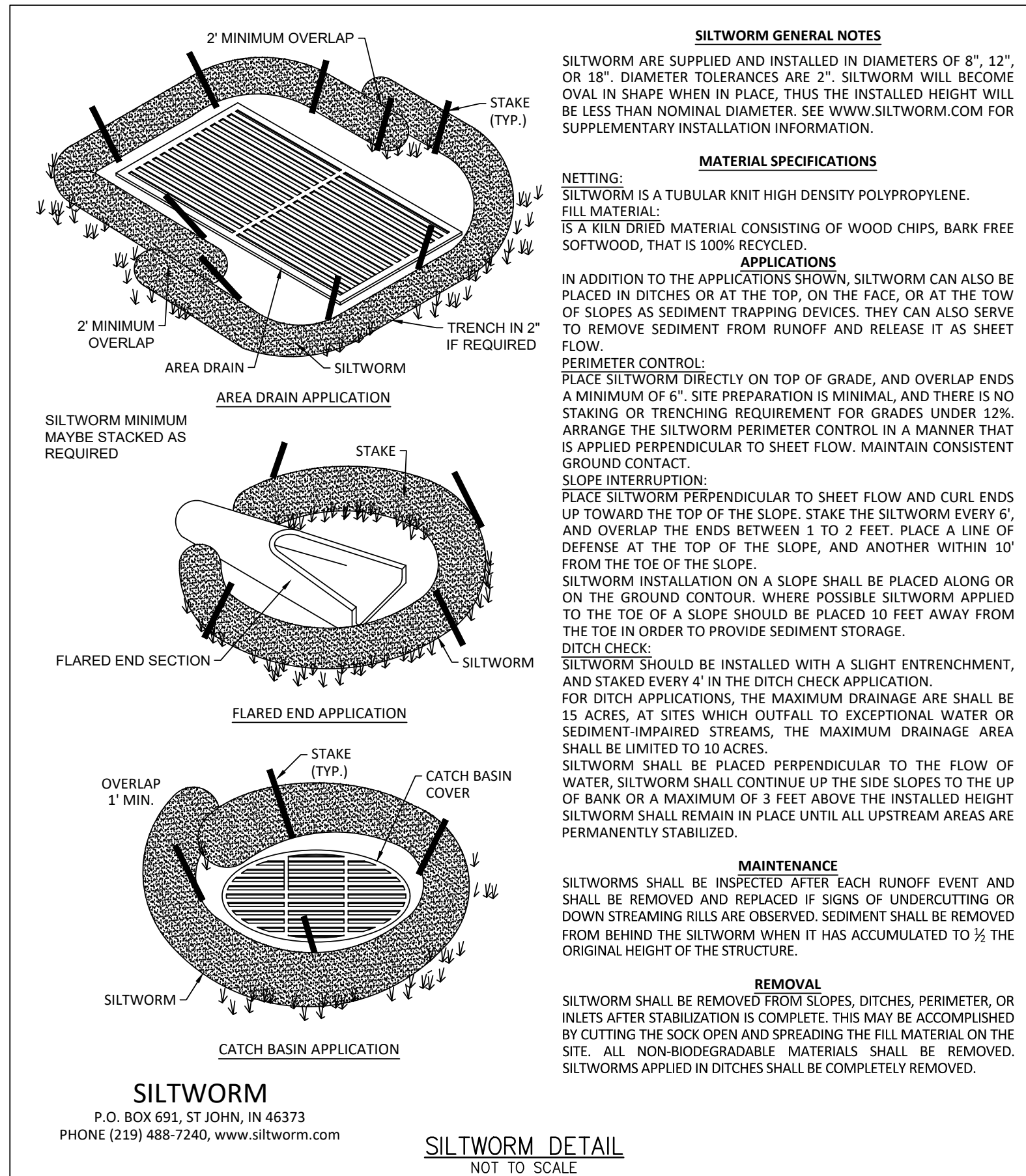
SHEET NUMBER

C5.1

PRINT DATE: 12/17/24
PLOT SCALE: 1:1
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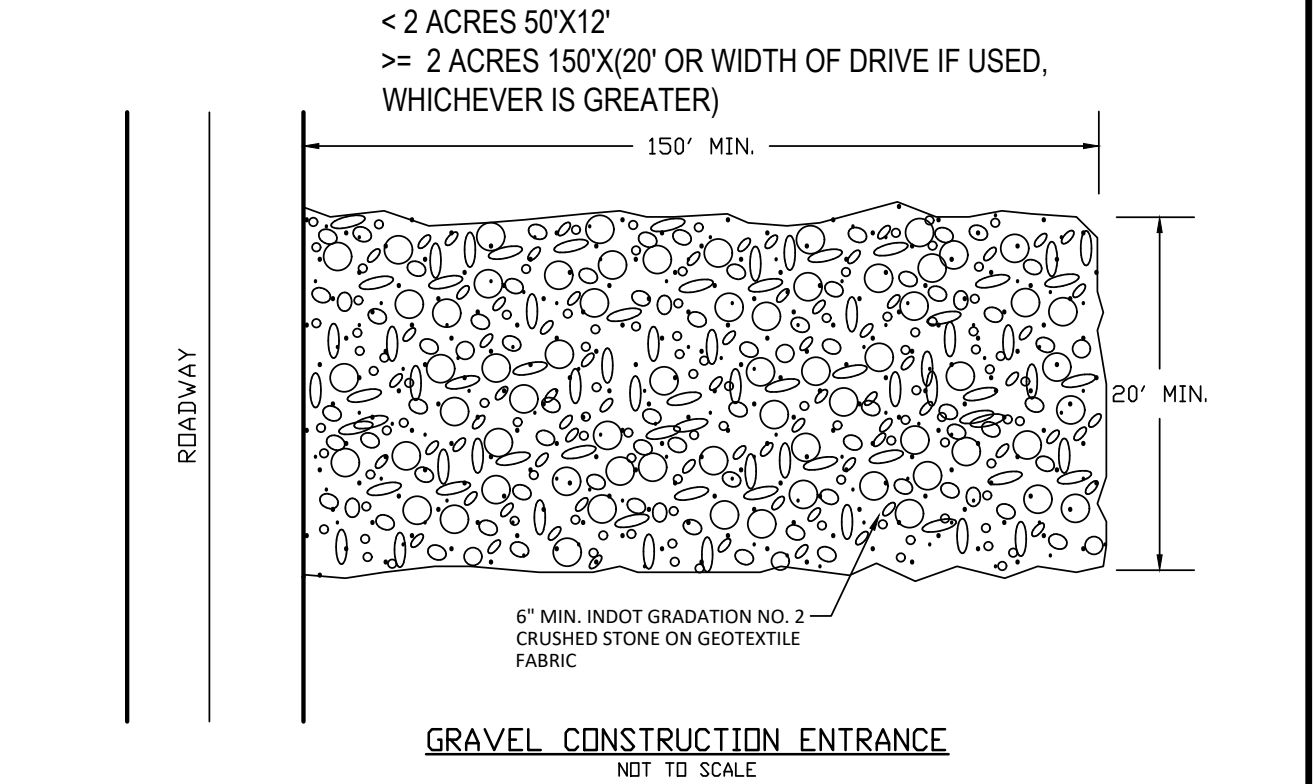
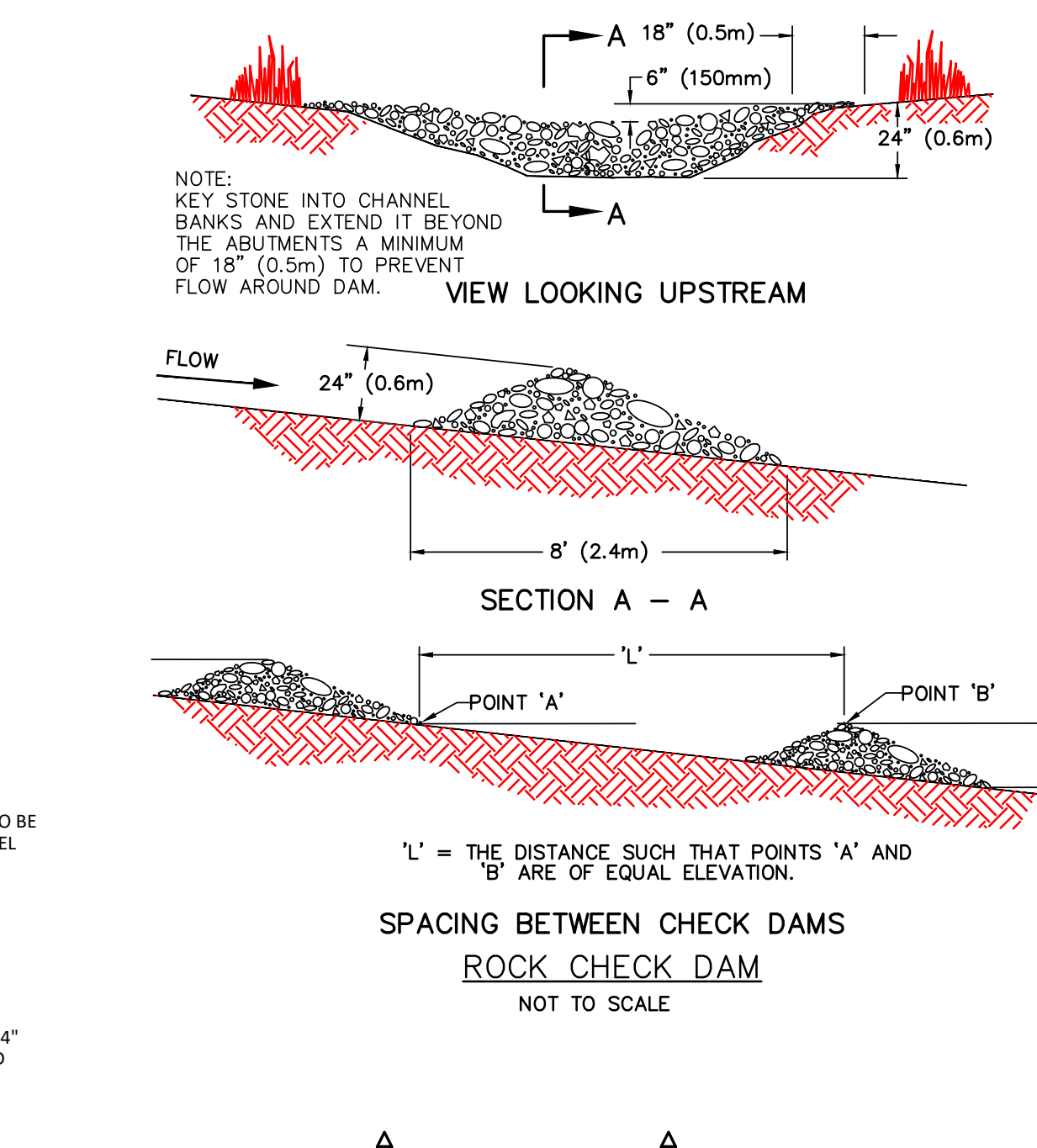
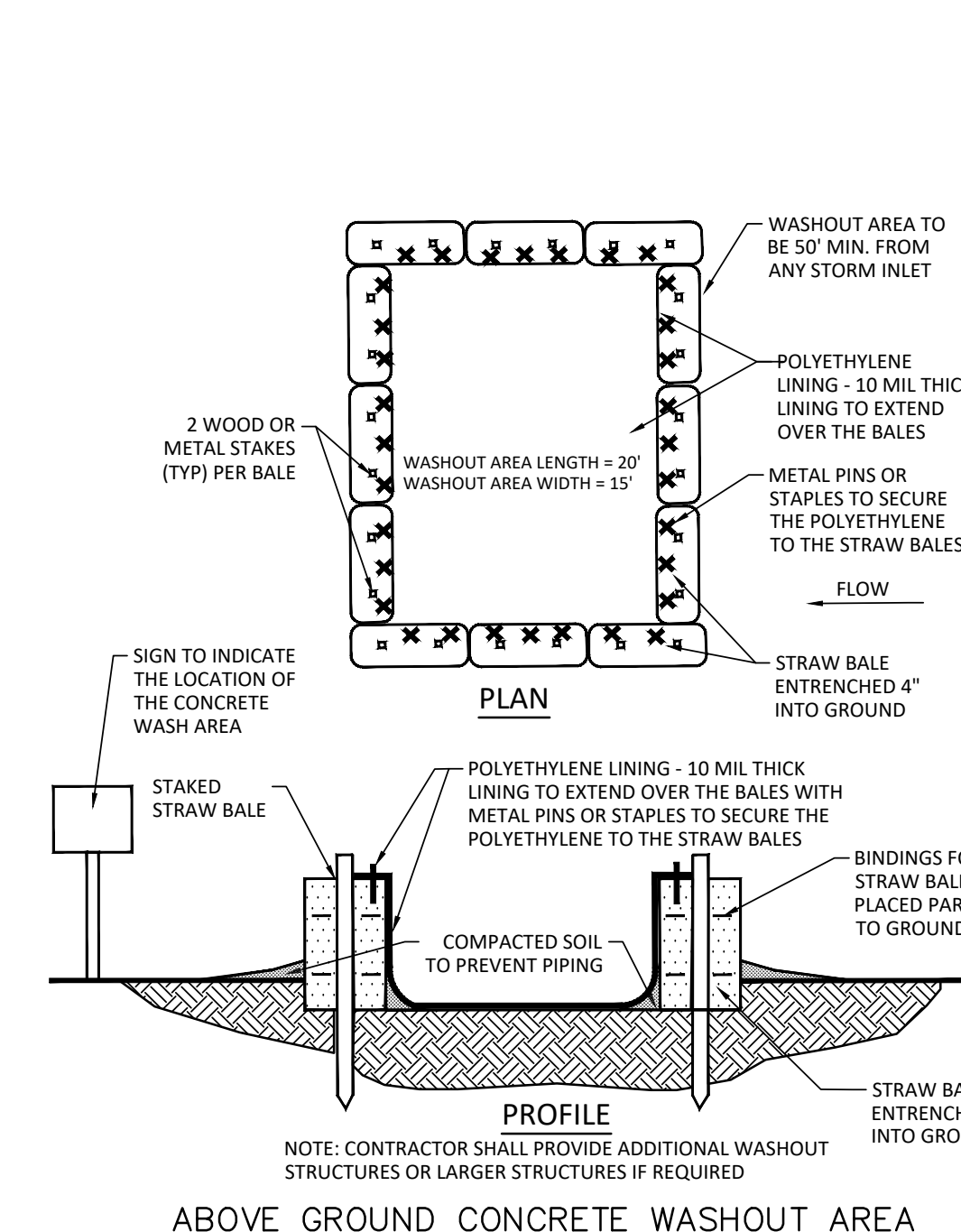
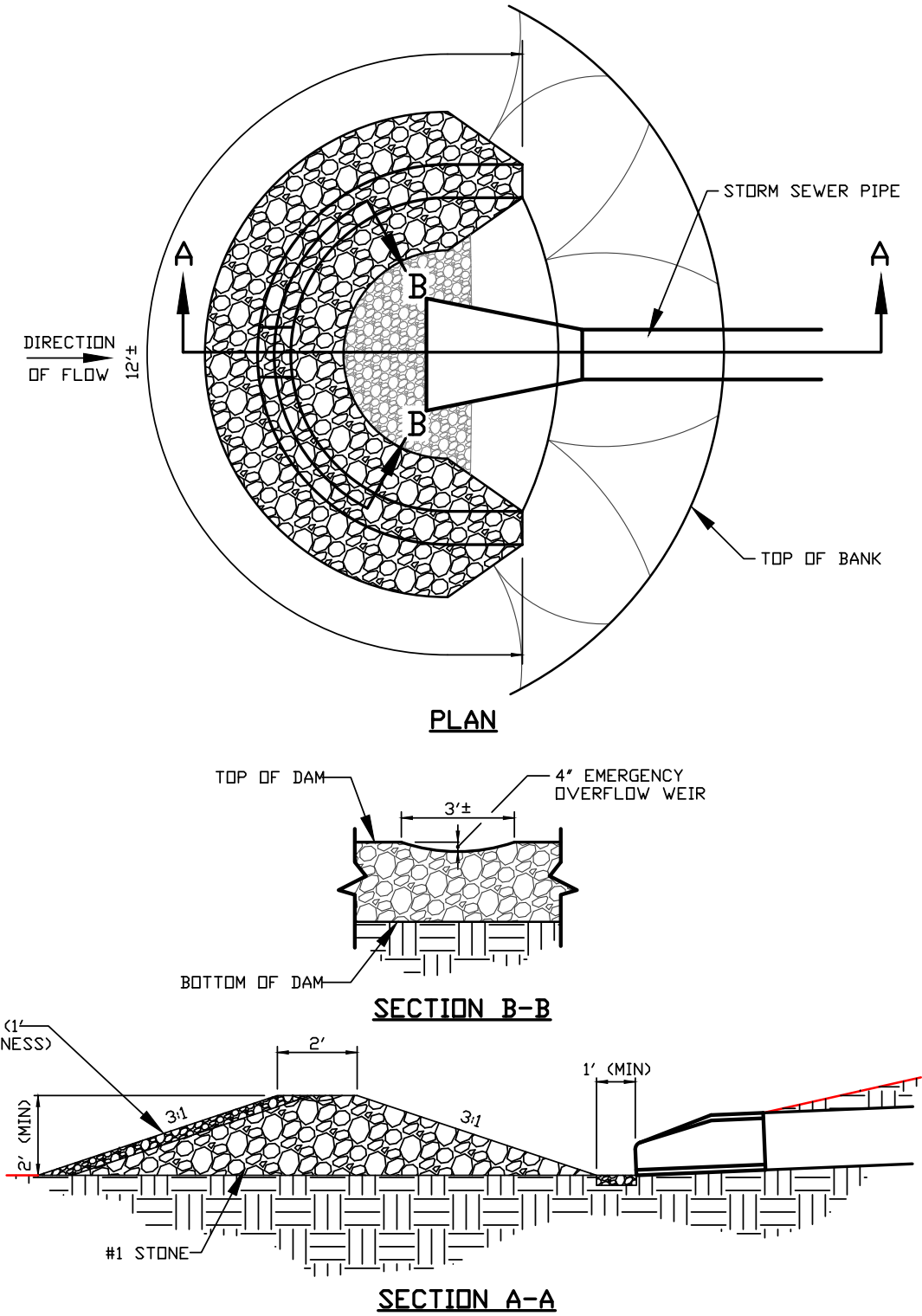
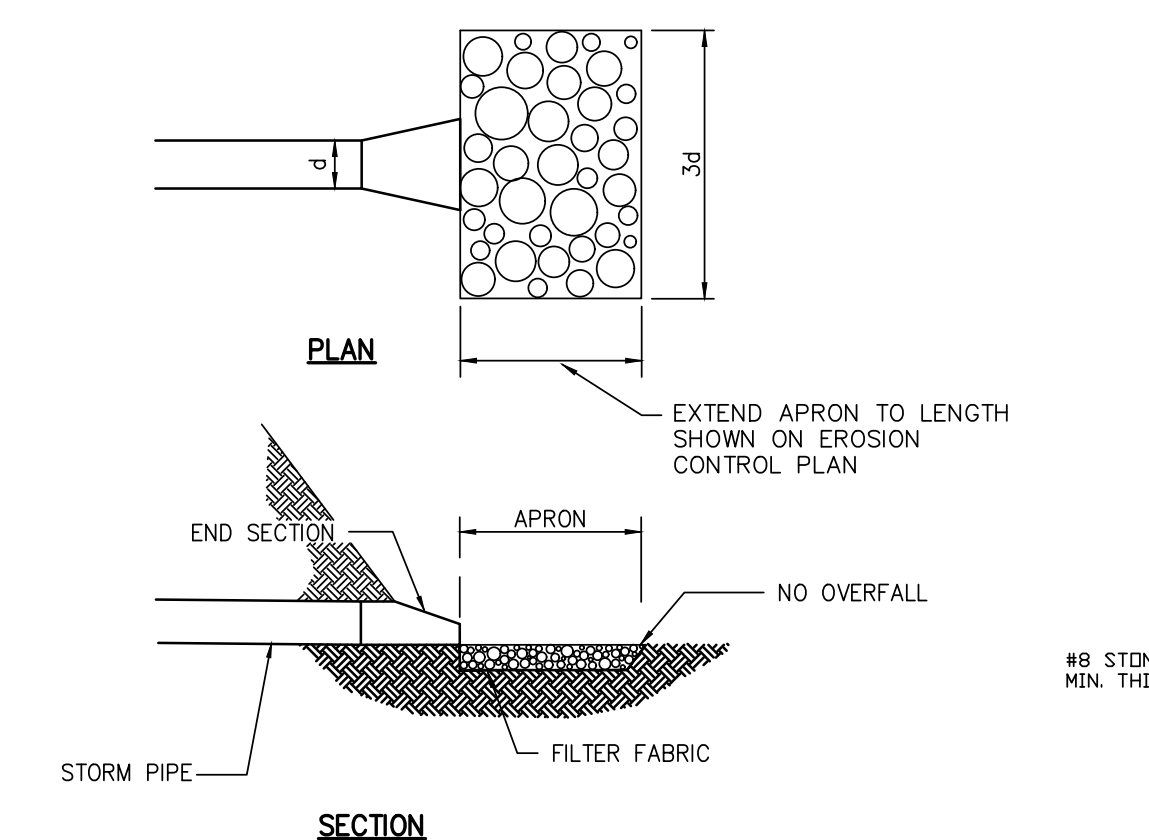
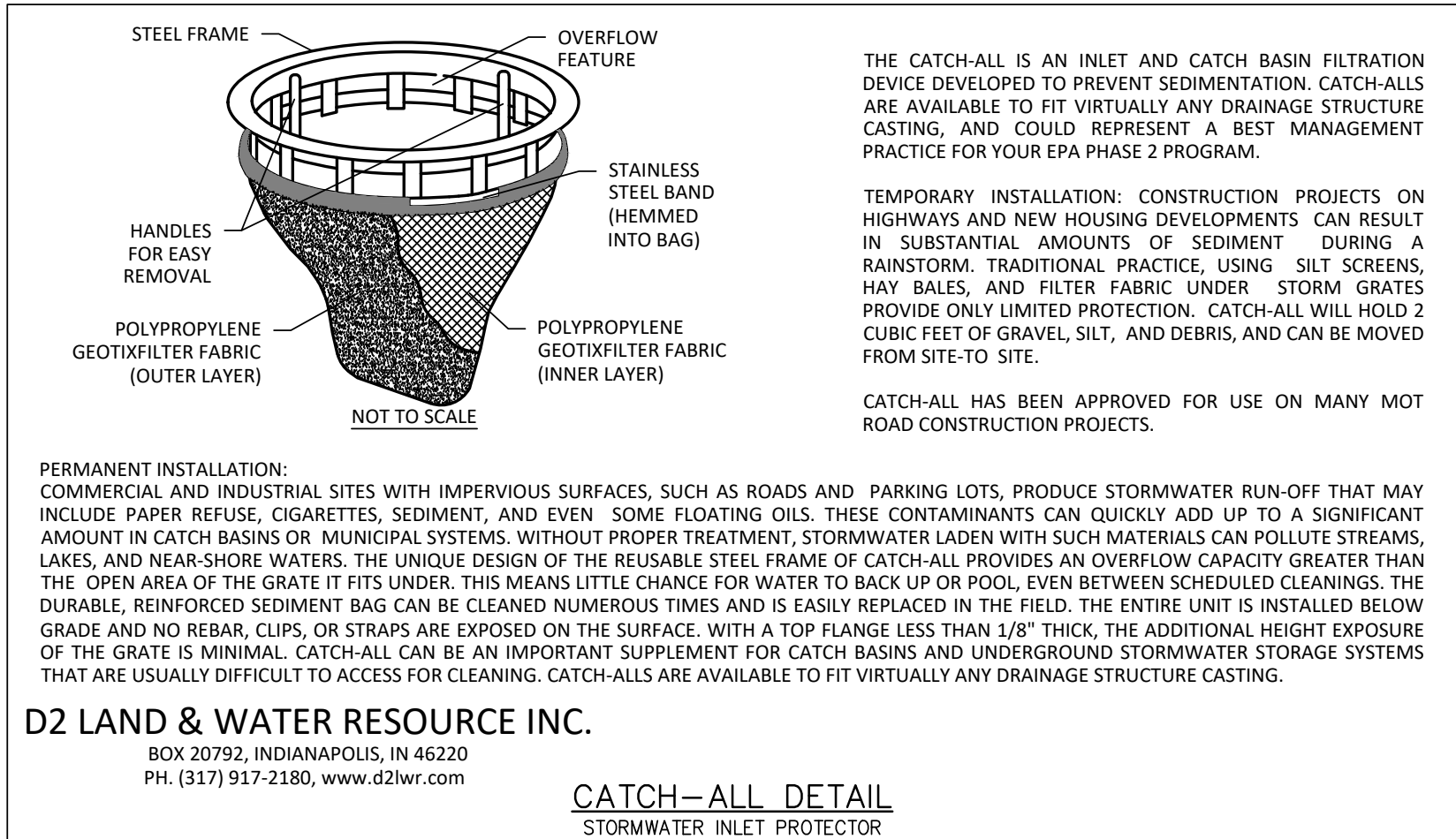
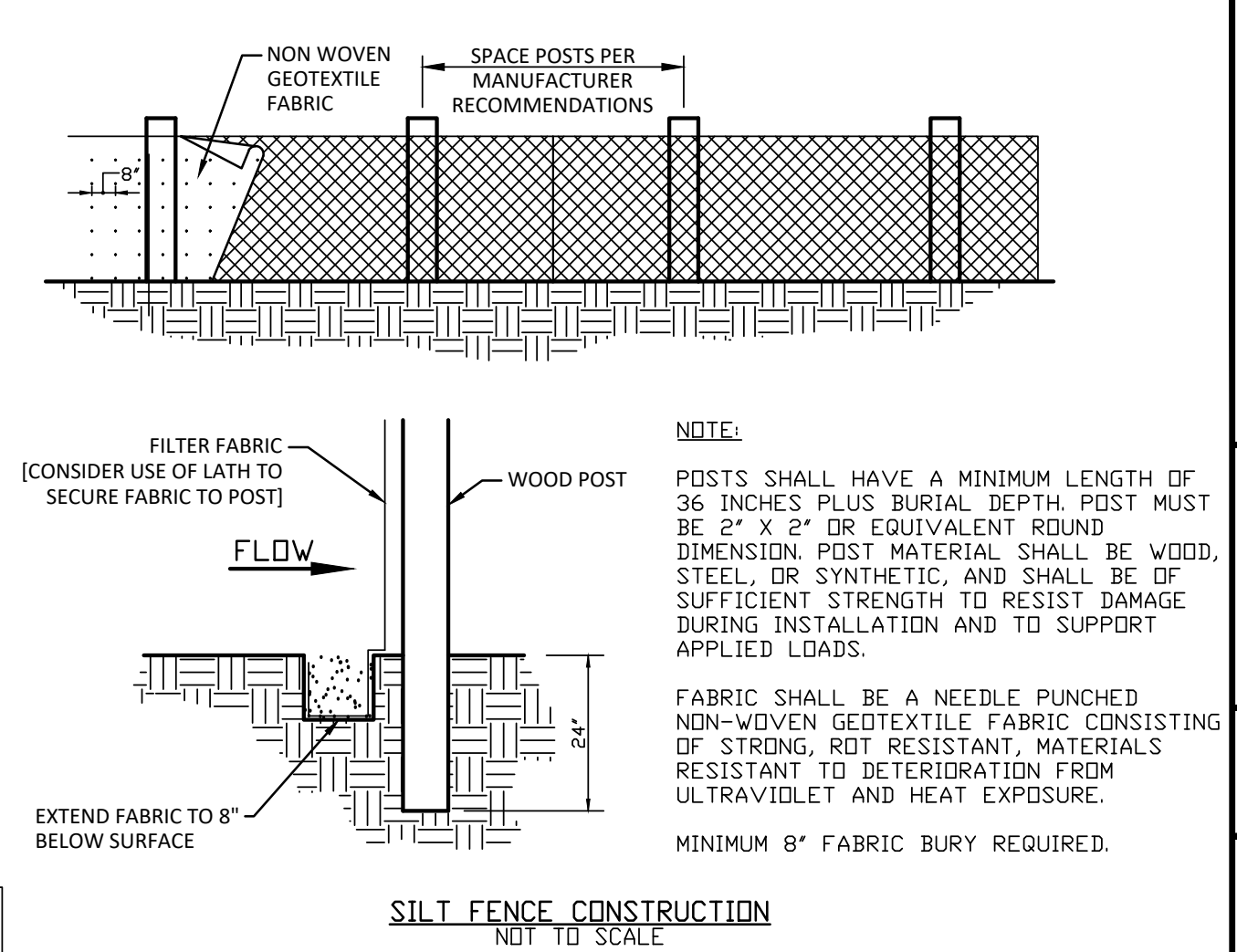
EROSION CONTROL NOTES:

- CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, GRADING, AND STORM SEWER SYSTEM.
- PRELIMINARY CONSTRUCTION SCHEDULE. CONSTRUCTION SHALL BEGIN IN THE SPRING 2025. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2026. THIS SCHEDULE IS SUBJECT TO CHANGE.
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- THIS PLAN SHALL NOT BE CONSIDERED AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY ON SITE INSPECTION.
- SEDIMENT LADEN WATER SHALL BE OBTAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE SURROUNDED BY ROCK DONUTS.
- EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
- THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
- ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
- SCHEDULE OF EROSION CONTROL ACTIVITIES:
 - INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
 - TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
 - FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
 - SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
- ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 90 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
- CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT THE GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
- CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.
- THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
- PORTABLE TOILETS MUST BE ANCHORED



SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING		A	A	A	A	A	A	A	A	A	A	A
DORMANT SEEDING	B											
TEMPORARY SEEDING		C	C	C	C	C	C	C	C	C	C	C

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
 B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
 C = SPRING OATS 3 BUSHELS/ACRE
 D = WHEAT OR RYE 2 BUSHELS/ACRE
 E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
 1/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



NOTES:
1. FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND WELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 8 IN. THICK
2. STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
3. MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL).

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SIGNATURE

SEAL
APPROVED FOR CONSTRUCTION
KELLY ANN CAKING
REGISTERED PROFESSIONAL ENGINEER
NO. 100000000
INDIANA
NO. 100000000
INDIANA

DATE: 12/18/2024

PROJECT NO: 2023.0212

REVISIONS	DATE	DESCRIPTION



PROJECT TITLE

46062

THE GODDARD SCHOOL
FOR EARLY CHILDHOOD DEVELOPMENT
DETAILED DEVELOPMENT PLAN
4903 CASTAMERE DRIVE
NOBLESVILLE, INDIANA

EROSION CONTROL DETAILS

SHEET NUMBER

C5.5

PRINT DATE: 12/17/24 PLOT SCALE: 1:1 EDIT DATE: 12/17/24 9:55 AM EDITED BY: KCANTER DRAWING FILE: \\d0.0.0.12\CLIENT FILES\PROJECTS\2023\0212 - GODDARD SCHOOL NOBLESVILLE\2. DESIGN\CAD\C5.5 EROSION CONTROL DETAILS.DWG

SITE NAME

The area scheduled for construction is known as "GODDARD SCHOOL - NOBLESVILLE" (hereinafter referred to as the "Project").

OWNER'S INFORMATION

Name: The Goddard School Of Carmel West
Address: 10445 Commerce Drive
Carmel, Indiana 46220
Representative: Mitch Manders
Telephone: (317) 415 0408

OPERATOR'S INFORMATION

Name: TBD
Address: TBD
Representative: TBD
Title: TBD
Telephone: TBD

NOTICE OF INTENT

All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited, however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements:

- a) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.
b) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A1 INDEX OF THE LOCATION OF REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLANS

Refer to the Site Plan.

A2 VICINITY MAP

Refer to Title Sheet

A3 PROJECT NARRATIVE

THIS PROJECT CONSIST OF 2.44 ACRES SITE WITH A 13,200 SF BUILDING, PARKING LOT, PLAY AREAS AND ASSOCIATED UTILITIES CONNECTIONS.

THE EXTERIOR SIGNAGE IS PER GODDARD DESIGN STANDARDS AS COORDINATED BY GODDARD UNDER A SEPARATE PERMIT SUBMITTAL. THE INTERIOR LAYOUT IS DESIGNER PER THE CURRENT GODDARD PROTOTYPE DESIGN STANDARDS.

A4 PROJECT LOCATION

The property is located 3302 Westfield Rd, between Castamere Dr and Westfield Rd in NOBLESVILLE, IN 46062, at a latitude of 40°02'38" N and a longitude of 86°38'20" W.

A5 LEGAL DESCRIPTION OF THE PROJECT SITE

See Sheet T1.1 - Title sheet

A6 11" x 17" PLAT

Refer to the Site Plan.

A7 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGS

The lot is located in an unshaded Zone "X" (areas determined to be outside the 0.2 percent annual chance floodplain) as indicated on the Hamilton, Indiana, Flood Insurance Rate Map 18057C01376 dated 11/19/2024

A8 ADJACENT LAND USE

North: Residential
East: Residential
South: Residential
West: Residential

A9 IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL

White river has an approved TMDLs plan, dated 04/09/2004

A10 IDENTIFICATION OF ALL RECEIVING WATERS

White river is the ultimate receiving water for the project area.

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED

The project will be discharging to Vestal Ditch. Vestal Ditch is not on the 303(d) list for E.coli. White river is on the 303(d) list for E.coli

A12 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS

The Natural Resources Conservation Service (NRCS) Web Soil Survey of Hamilton County, Indiana, indicates Brookston silt clay, Crosby silt loam fine-loamy subsoil, Brookston silt clay loam-urbanland complex, Crosby silt loam, fine loamy subsoil-urban land complex, and Miami silt loam-urban land complex) are located on the site.

The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

A13 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE

Vestal Ditch is located on the east side of the project. No wetlands, lakes have been identified on the site that may be impacted.

A14 STATE AND FEDERAL WATER QUALITY PERMITS

IDEM GCSP

A15 IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS

The project will it affect the existing cover

A16 EXISTING SITE TOPOGRAPHY

Refer to the Existing Topography Plan

A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE

There is no Run-off entering the site

A18 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE

Stormwater drainage from the site will be conveyed by a proposed storm sewer. The project drainage will be divided by two where the north side of the project will discharge to the east along Castamere Dr, and the south side of the project will be discharge to the south side in direction to Westfield Dr.

A19 LOCATION OF ALL EXISTING STRUCTURES ON PROJECT SITE

Refer to the Utility Plan or Storm Sewer Plan and Profiles

AXX LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS

Locations of stormwater systems: Refer to the Utility Plan or Storm Sewer Plan and Profiles
Size of storm sewer: Refer to the Utility Plan or Storm Sewer Plan and Profiles
Details of storm inlets and manholes: Refer to Site Details

A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT

There are no location on site where surface water may be discharged into ground water

A21 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER

There are no locations on site where surface water may be discharged into ground water.

A22 PROJECT ACREAGE

Total Acreage: 2.44 Acres

A23 PROJECT LAND DISTURBANCE

Proposed Land Disturbance: 2.44 Acres

A24 PROPOSED FINAL SITE TOPOGRAPHY

Refer to the Grading Plan

A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.

A26 LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS

Refer to Utility Plan sheets C4.1 and C4.2

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE

Refer to Utility Plan sheets C4.1 and C4.2

A28 LOCATIONS OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS

Refer to Utility Plan sheets C4.1 and C4.2

A29 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL

Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.

A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT

Erosion and Sediments control measurements.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS

Not applicable to this project

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

The following potential pollutant sources may be associated with construction activities on site:

- 1. Material storage areas (more specifically described below)
2. Construction waste material
3. Fuel storage areas and fueling stations
4. Exposed soils
5. Leaking vehicles and equipment
6. Sanitary waste from temporary toilet facilities
7. Litter
8. Windblown dust
9. Soil tracking off site from construction equipment

The following construction materials may be staged or stored on site at various points during development of the site:

- 1. Structural fill
2. Pavement Base Stone
3. HDPE, PVC, RCP or Ductile iron pipe
4. Precast concrete, HDPE or PVC drainage and sanitary structures
5. Rock rip-rap

B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details.

B3 TEMPORARY AND PERMANENT SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more. Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.

- A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorus, and 2 percent potassium by weight.
C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus and potassium made up of a composition by weight of 5 percent.
D. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorus, and 2 percent potassium by weight.
E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
G. Install erosion control blankets as indicated on the plan.
H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B6 RUNOFF CONTROL MEASURES

Permanent Vegetations, Silt fence, Etc. See erosion control plan, Sheet CS.1

B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS

Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS

Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B9 DEWATERING APPLICATION AND MANAGEMENT METHODS

No dewatering

B9 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES

N/A

B11 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

Inspection Schedule/Reporting
All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identifies any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.

Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections

All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

- 1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination

Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOI within thirty (30) days after one or more of the following conditions have been met:

- 1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B12 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

- 1. Schedule pre-construction meeting with local stormwater authority.
2. Install construction entrance.
3. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
4. Install staging area, fueling station, material storage area and concrete truck washout.
5. Strip the top soil and grade.
6. Complete the cut and fill on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
7. Prior to building construction install stone surface for paved areas.
8. Building pads left dormant for more than 15 days, must be temporarily seeded.
9. Start building construction. Install staging area for building materials.
10. Install storm sewer and other structures immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
11. Seed the perimeter of the site.
12. Complete utility installation, curbs, paving and building construction.
13. Install landscaping plant material and stabilize all disturbed areas.

Remove all erosion and sediment control practices when areas have a uniform grass cover.

B13 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

Since the entire site is under a single ownership, there are not any individual building lots.

B14/B15 MATERIAL HANDLING AND SPILL PREVENTION AND RESPONSE PLAN

Solid Waste Disposal
No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste
Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

Dust Control/Off-Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

Sanitary/Septic
Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by the contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water Source
Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas
Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage
Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original containers is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations. As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Material Handling and Spill Prevention
Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall describe the location of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout
All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan
Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the

discovery of the spill.

- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
• Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
• Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
• Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
• Contact 911 if the spill could be a safety issue.
• Contact supervisors and designated site inspectors immediately.
• Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.

- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
• Immediately contact the local Fire Department at 911 to report any hazardous material spill.
• Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
• As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
• Name, address and phone number of person making the spill report
• The location of the spill
• The time of the spill
• Identification of the spilled substance
• Approximate quantity of the substance that has been spilled or may be further spilled
• The duration and source of the spill
• Name and location of the damaged waters
• Name of spill response organization
• What measures were taken in the spill response
• Other information that may be significant

Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

The proposed land use is a institutional. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.

Pollutant Source: Building
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash dumpster
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Parking lot
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and landscape areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Vegetative Filter Strip
A vegetative filter strip are used to trap sediment from small, disturbed areas by reducing velocity of sheet flow. Vegetative filter strips capture sediment by filtering storm water runoff and allowing sediment to settle out.

Permanent Vegetation
Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 1:3 slopes. Proposed landscape trees and shrubs will also be added. These Bio areas will act as a natural filter strip to help improve storm water quality. The vegetated areas will slow the velocities of storm water runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

Isolator Row (or similar)
The isolator row is a filter fabric media that filters out sediment and other contaminants as storm water exits through the fabric.

Proposed Detention Basin
Basins collect, temporarily hold, and gradually release excess storm water from storm events. Detention is achieved through the use of an outlet structure that regulates the rate of storm water outflow.

Mechanical BMP (Aqum-swirl, etc.)
A BMP structure will be installed at the downstream end of the storm sewer system, prior to the storm sewer outlet. The primary purpose of the BMP is to remove sediment, oils and floatable debris from the stormwater prior to discharging from the site.

Good Housekeeping Measures
Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

North Pre-construction 10-year discharge: 1.09 cfs
North Post-construction 10-year discharge: 1.08 cfs
North Pre-construction 100-year discharge: 2.42 cfs
North Post-construction 100-year discharge