

All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project.

4803 Ross Road, L., Newburgh, IN 47030
812-464-9555 Phone 812-464-2514 Fax
morleycorp.com

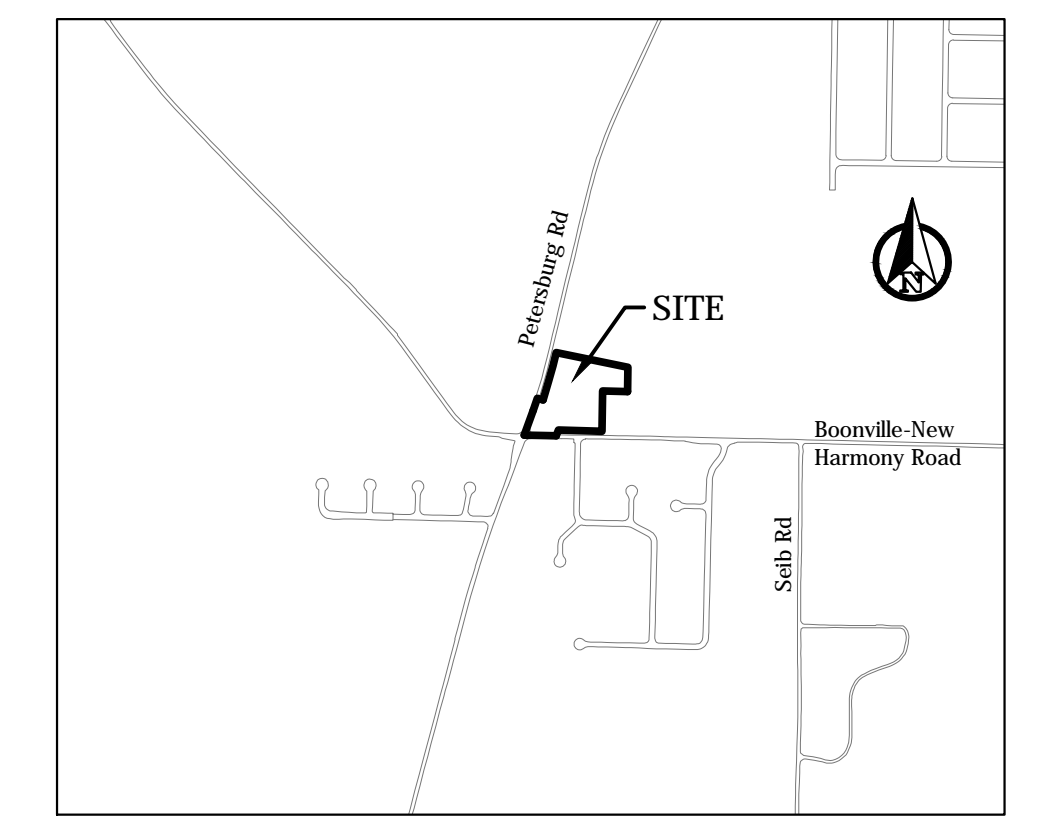
Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil
Site Plan

Table with 2 columns: No., Date. Includes Revisions section with Scale: 1" = 30'. Designed by: JEM, Job Number: 11060.1-002-A. Drawn by: CRS, Date: 3.19.2021. Sheet Number: C101.

Existing Legend

- Building Setback Line, Center Line, Fence Line, Property Boundary Line, Right-of-way Line, Overhead Electric, Overhead Communication, Overhead Utilities, Undergound Communication, Undergound Electric, Undergound Gas, Undergound Water, See Surveyor's Report Item, See Surveyor's Notes, Monument found as noted, Calculated Dimension, Measured Dimension, Plat Dimension per Hammel-Wright, Record Dimension, Point Of Beginning, Point Of Commencement, Mag Nail with Washer stamped, 5/8" Rebar with cap stamped, Mag Nail with Washer stamped, See Surveyor's Report Item, Monument found as noted.



Site Summary

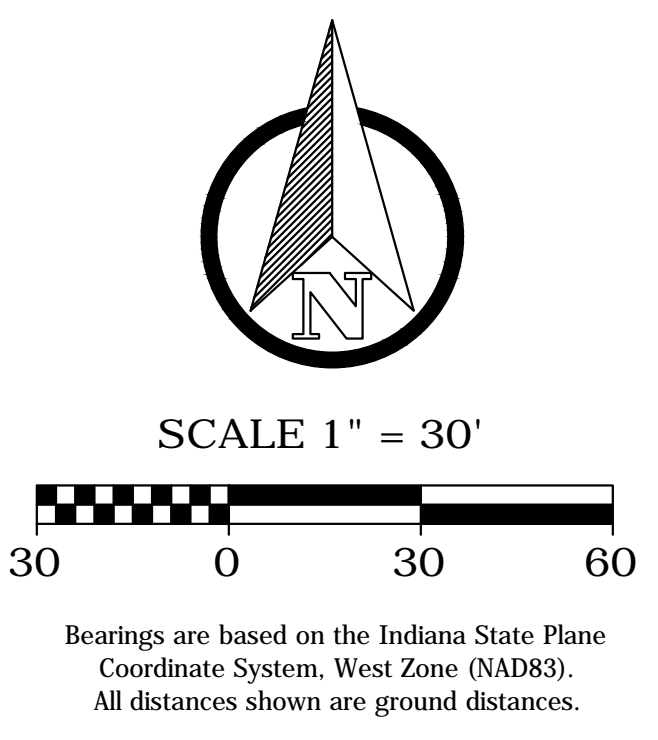
- Required Parking Determination: Convenience Store = C-4, Proposed Use = C-4, Current Zoning Classification = C-4, Building Size = 4,005 SF, Required Parking Spaces (1/500 SF) = 8 spaces, Required ADA Spaces = 1 space, Proposed Available ADA Spaces = 2 spaces, Proposed Total Available Parking = 21 spaces, Existing Impervious Area = 10,500 SF, Proposed Impervious Area = 40,000 SF, Net Impervious Area Increase = 29,500 SF.

Proposed Legend

- Building Footprint, Asphalt Pavement, Heavy Duty Asphalt Pavement, Concrete Sidewalk, Heavy Duty Concrete Pavement, Building Overhang/Canopy, Wheel Stop, ADA Parking Symbol, Number of Parking Spaces in Row, Sign, 6" Curb and Gutter, P.B. Pipe Bollard.

Temporary Benchmarks

Benchmark Data: Elevations are based on NAVD 88 (INCORS Network) utilizing on-site GPS observations. TBM 1 = 454.63, Chiseled 'X' on East head bolt on fire hydrant. ±20' South of Boonville-New Harmony Road centerline and ±190' East of the intersection of Boonville-New Harmony Road and Petersburg Road. TBM 2 = 454.91, Chiseled 'X' on South head bolt on fire hydrant. ±15' West of Petersburg Road centerline and ±448' North of the intersection of Boonville-New Harmony Road and Petersburg Road.

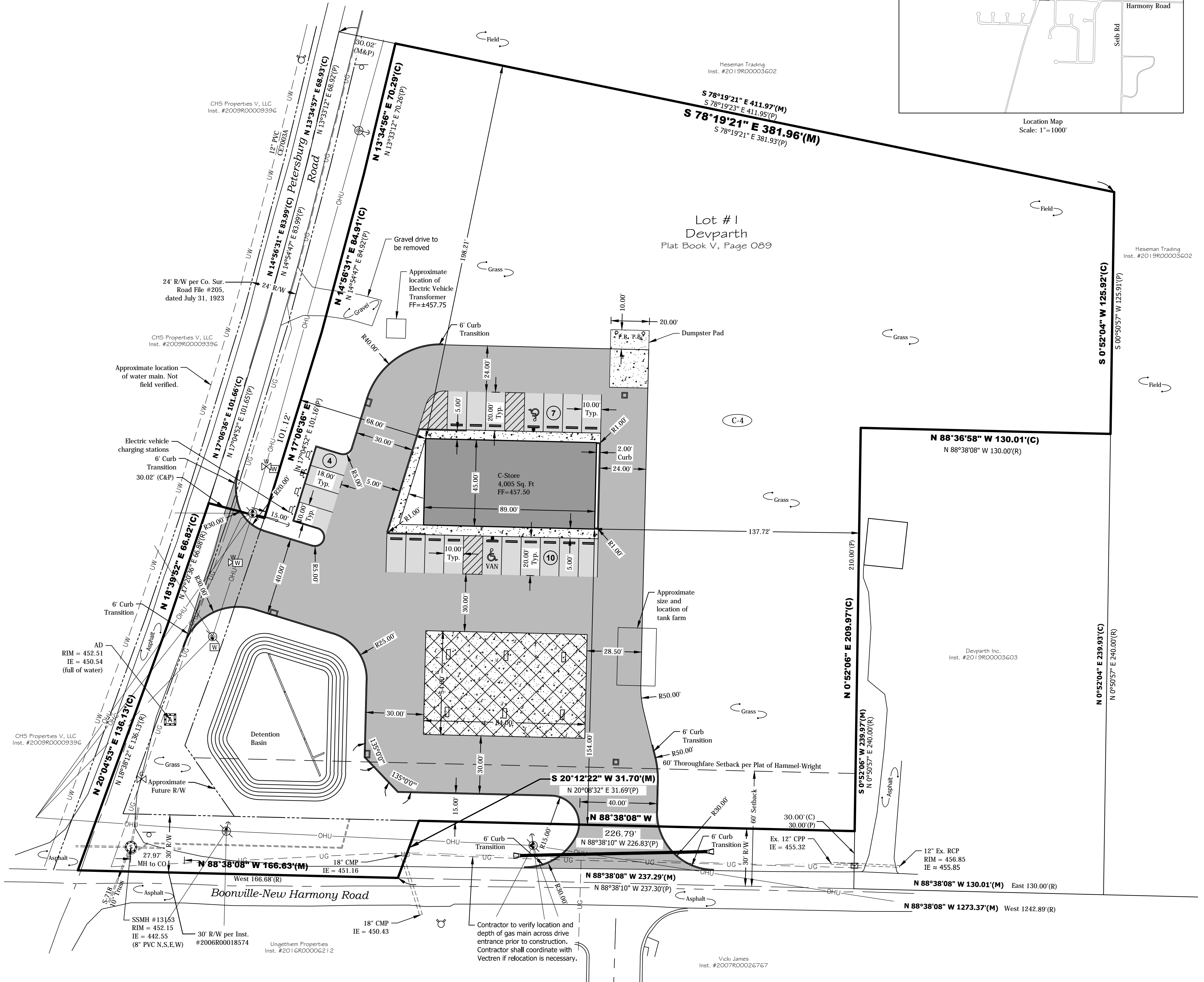


Resource List

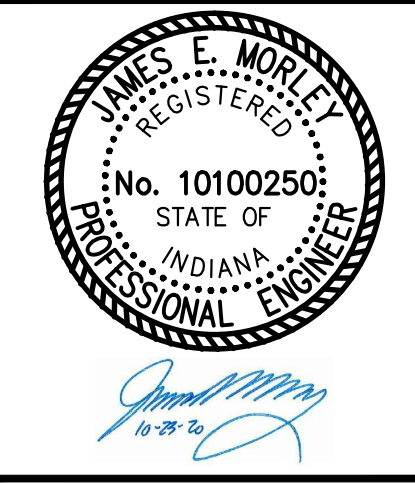
- Vectren Energy Delivery - electric: Jeremiah Parker (jparker@vectren.com), Electric Distribution Engineer, 1 North Main Street, Evansville, IN 47708. Vectren Energy Delivery - gas: Matt Stewart (mstewart@vectren.com), Gas Distribution Engineer, 1 North Main Street, Evansville, IN 47708. AT&T: Marc Clark (mc3429@att.com), Engineering Department, 134 NW Sixth Street, Evansville, IN 47708. Evansville Water and Sewer Utility: Doug Ohning (djonhning@ewsu.com), Manager of Planning and Development, PO Box 19, Evansville, IN 47740. Spectrum: Daryl Hulsey (daryl.hulsey@charter.com), Construction Coordinator, 1900 Old Business 41, P.O. Box 4658, Evansville, IN 47724-0658.

General Notes:

- Contractor shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work. The contractor is cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of various utility companies, and where possible measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. Indiana Underground Utility Locate Service Phone: 811. All elevations are based upon NAVD 1988. All dimensions are measured from face of curb unless otherwise stated on these plans. The subject property does not lie within that special Flood Zone "A" as said tract plots on Community Panel Number 18163C0109D of the Flood Insurance Rate Maps for Vanderburgh County, Indiana, Effective March 17, 2011. Erect and maintain all necessary barricades, detour signs, warning signals, and lights (in conformance with the Manual on Uniform Traffic Control Devices - latest edition) and INDOT Standard Specifications, memorandums and supplements required to direct traffic safely over or around the place where work is being done, that in any way interferes with traffic or pedestrians. Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort. Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement. Remainder of subject property rezoned to C-4 per Ordinance No. VC-9-2020 approved by Vanderburgh County Commissioners on October 27, 2020.



Indiana Underground Plant Protection Services. Notified: 02/28/2020. Ticket Number: 2002281907 & 2002281913. 811 logo. The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service. A. Utilities as marked on ground shown on survey. B. Contractor is responsible to contact the above at 811 prior to any work on site.



All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project.

4803 Rossford Ln., Newburgh, IN 47030
812-464-9556 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil Grading and Drainage Plan

No.	By	Date
Revisions		
Scale: 1" = 30'		
Designed By:	JEM	Job Number: 11060.1.002-A
Drawn By:	CRS	Date: 10.23.2020
Filename:	11060 Civil Base	
Sheet Number:	C102-A	

Existing Legend

- Building Setback Line
- Center Line
- Fence Line
- Property Boundary Line
- Right-of-way Line
- Overhead Electric
- Overhead Communication
- Overhead Utilities
- Underground Communication
- Underground Electric
- Underground Gas
- Underground Water
- See Surveyor's Report Item
- See Surveyor's Notes
- Calculated Dimension (C)
- Measured Dimension (M)
- Plat Dimension per Hammel-Wright (Plat Book U, Page 189) (P)
- Record Dimension (R)
- Point Of Beginning (P.O.B.)
- Point Of Commencement (P.O.C.)
- Mag Nail with Washer stamped "Morley ID#0023" (set flush)
- 5/8" Rebar with cap stamped "Greg Kissel IN RLS 20700076" (found flush)
- Mag Nail with Washer stamped "Greg Kissel IN RLS 20700076" (found flush)
- Monument found as noted

Proposed Legend

- Proposed Grade
- T.C. = Top of Curb Grade
- Gut. = Gutter Grade
- EP = Edge of Pavement
- EC = Edge of Concrete
- ME = Match Existing
- Proposed Valley Break Line
- Proposed Crest Break Line
- Storm Sewer Pipe
- Proposed Contour
- Area Drain, AD
- Curb Inlet, CI
- Flared End Section, FES
- Flowline and Direction of Flow

Site Grading Guidelines:

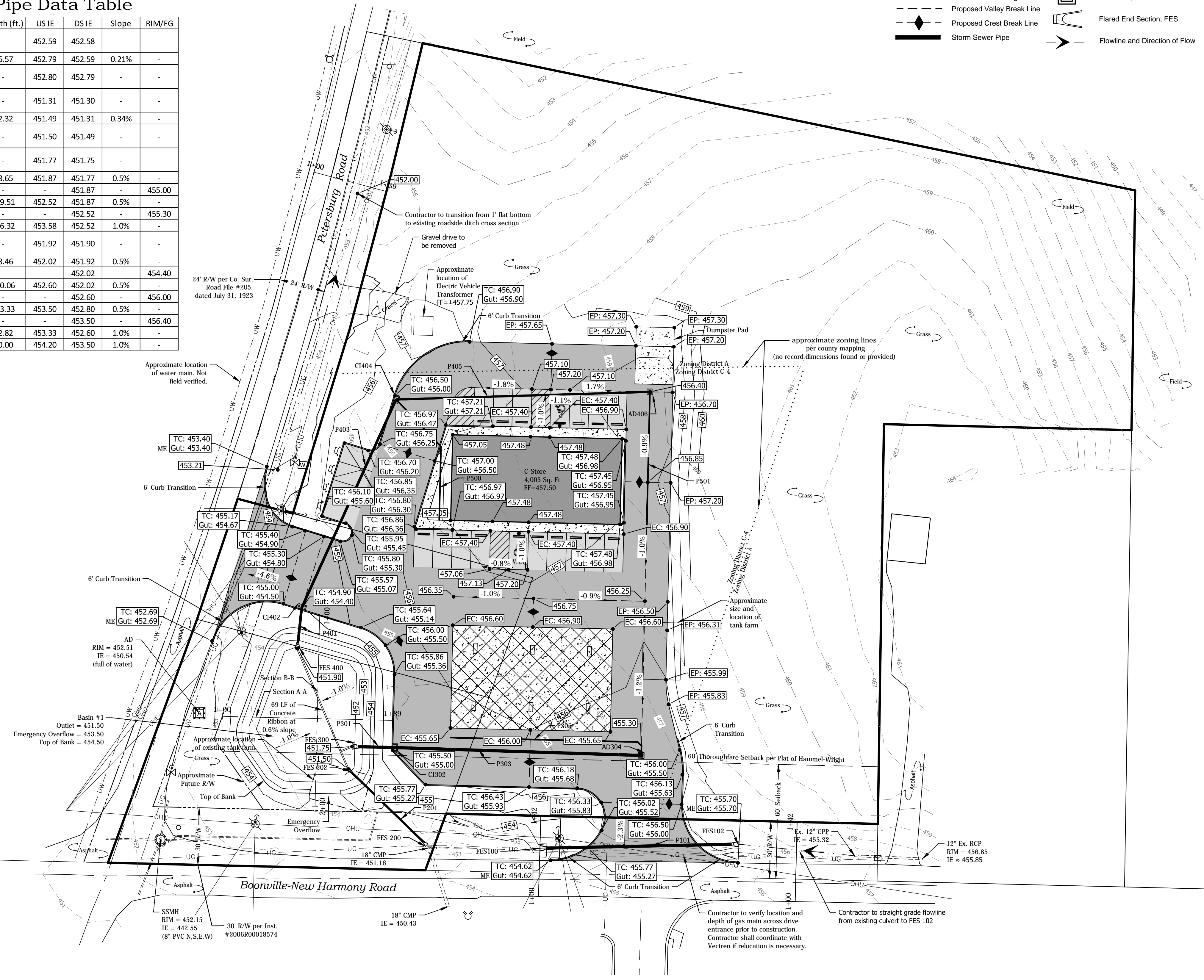
- Minimum pavement slope = 0.5% flow.
- All surfaces shall be graded to drain. All grading to slope away from buildings. All disturbed areas to be seeded and mulched.
- Local, state, and national laws and guidelines shall take precedence over design information if in conflict. Contractor shall inform client and Morley and Associates, Inc. in writing if any conflicts arise.
- Maximum cross slopes shall be 1:48 (2.0%) of pedestrian travel paths and landings.
- Changes in level 1/4 in. or less may be vertical without edge treatment. Changes in level between 1/4 in. and 1/2 in. shall be beveled with a slope no greater than 1:2. Changes in level greater than 1/2 in. shall incorporate a "ramp". Maximum slope on ramp shall be 1:12.
- Landings at a change in direction shall be 60 inches wide and 60 inches long (minimum).
- Maximum slope in an ADA parking space and its aisle shall be 1:50.
- All areas of new facilities and altered portions of existing facilities shall comply with the Americans with Disabilities Act (ADA) Accessibility Guidelines.
- Maximum earthen slope shall be 3:1 unless otherwise approved by an Engineer.
- Contractor to verify finish floor elevation prior to constructing parking lot. A maximum 1/4 in. drop in elevation from finish floor to edge of pavement shall be constructed at all doorways.

Seeding Schedule

- Permanent Vegetative Stabilization
- Seeding from November 15 to February 28:
 - Seed mixture will be applied at a rate of 3 to 4 pounds of Bluegrass and 1 pound of Tall Fescue per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place.
 - Fertilizer having a composition of 12-12-12 will not be applied until the following March. Fertilizer will be applied at a rate of 19 pounds per 1000 square feet.
 - Seeding from March 1 to November 14:
 - Seed mixture will be applied at a rate of 6 1/2 pounds of Kentucky 31 Fescue and 1 1/2 pounds of Perennial Rye per 1000 square feet.
 - Fertilizer having a composition of 12-12-12 will be applied at a rate of 19 pounds per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place. Schedule when each disturbed area will be stabilized.
 - Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50°F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Structure and Pipe Data Table

Structure	Description	Size (in.)	Length (ft.)	US IE	DS IE	Slope	RIM/FG
FES 100	FLARED END SECTION	18	-	452.59	452.58	-	-
P 101	HDPE	18	96.57	452.79	452.59	0.21%	-
FES 102	FLARED END SECTION	18	-	452.80	452.79	-	-
FES 200	FLARED END SECTION	10	-	451.31	451.30	-	-
P 201	HDPE	10	52.32	451.49	451.31	0.34%	-
FES 202	FLARED END SECTION	10	-	451.50	451.49	-	-
FES 300	FLARED END SECTION	18	-	451.77	451.75	-	-
P 301	HDPE	18	18.65	451.87	451.77	0.5%	-
CI 302	CURB INLET	-	-	-	451.87	-	455.00
P 303	HDPE	18	129.51	452.52	451.87	0.5%	-
AD 304	AREA DRAIN	-	-	-	452.52	-	455.30
P 305	PVC	8	106.32	453.58	452.52	1.0%	-
FES 400	FLARED END SECTION	15	-	451.92	451.90	-	-
P 401	HDPE	15	18.46	452.02	451.92	0.5%	-
CI 402	CURB INLET	-	-	-	452.02	-	454.40
P 403	HDPE	15	120.06	452.60	452.02	0.5%	-
CI 404	CURB INLET	-	-	-	452.60	-	456.00
P 405	HDPE	12	133.33	453.50	452.80	0.5%	-
AD 406	AREA DRAIN	-	-	-	453.50	-	456.40
P 500	PVC	8	72.82	453.33	452.60	1.0%	-
P 501	PVC	8	70.00	454.20	453.50	1.0%	-



Resource List

- Vectren Energy Delivery - electric**
Jeremiah Parker (jparker@vectren.com)
Electric Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-4754 - Office
812-205-1905 - Cell
- WOW**
James Fambrough (james.fambrough@wowinc.com)
6045 Wedeking Avenue, Evansville, IN 47715
812-437-0395 Office
812-305-4756 Cell
- Vectren Energy Delivery - gas**
Matt Stewart (mstewart@vectren.com)
Gas Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-5773
- Drainage or Public Land Issues in the County**
Jeff Mueller (jmueller@vanderburghsurveyor.com)
Vanderburgh County Surveyor
Room 325 Civic Center Complex
1 NW Martin Luther King Jr Blvd, Evansville, IN 47708
812-435-5210
- AT&T**
Marc Clark (mc3429@att.com)
Engineering Department
134 NW Sixth Street, Evansville, IN 47708
812-464-6050
- County Roads and Erosion Issues in the County**
John Stoll (jstoll@vanderburghgov.org)
Vanderburgh County Engineer
201 NW Fourth Street, Suite 306, Evansville, IN 47708
812-435-5773
- Evansville Water and Sewer Utility**
Doug Ohning (dohning@ewsu.com)
Manager of Planning and Development
PO Box 19, Evansville, IN 47740
812-421-2120, EXT. 2217
- CALL BEFORE YOU DIG-BURIED LINE LOCATION CALL 811**

General Notes:

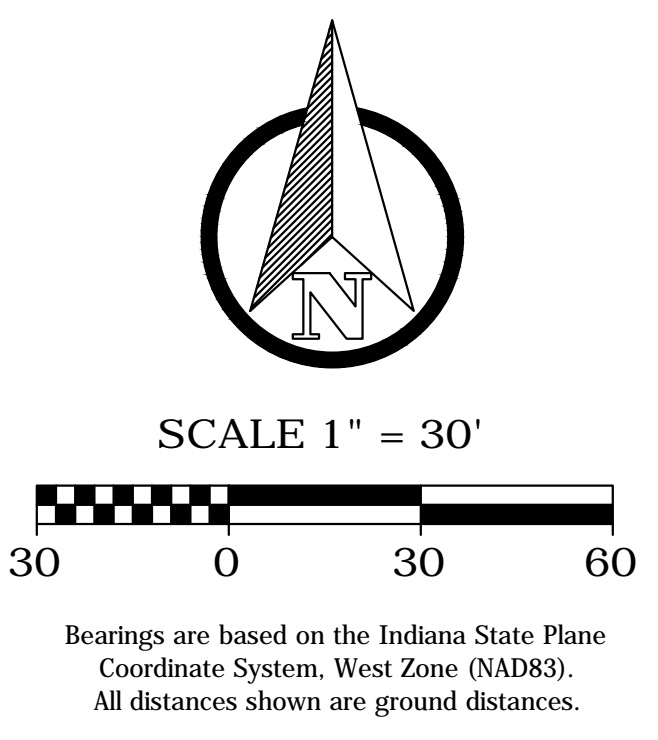
- Contractor and materials shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work.
- The contractor is cautioned that the location, elevation, size and/or material type of existing utilities as shown on these plans is based on records of various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor is responsible for the accurate location elevation, size and/or material type of all utilities and hazards whether shown or not. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location elevation, size and/or material type of utilities.
- Material specifications shall be in conformance with applicable portions of the INDOT Standard Specifications, (latest edition), memorandums and supplements unless specifically stated otherwise on these plans, contract documents or local code.
- All pipe lengths are measured center of structure to center of structure.
- Design pipe slopes are calculated from the center of structure to the center structure. Construction pipe slopes may vary slightly if the structure cross slope does not match the design pipe slope.
- The contractor shall repair and/or replace all existing utilities damaged as a result of this project.
- The contractor shall be responsible for notifying all occupants of interruption to their utilities that will be caused by this project.
- The contractor shall maintain the road right-of-way which has been disturbed. Maintenance shall meet the approval of the governing engineer.
- Contractor shall erect and maintain all necessary barricades, detour signs, warning signals and lights (in conformance with the Manual on Uniform Traffic Control Devices - latest edition) and INDOT Standard Specifications, memorandums and supplements required to direct traffic safely over or around the place where work is being done, that in any way interferes with traffic or pedestrians.
- Areas exposed by excavation or stripping and on which subgrade preparations are to be performed shall be scarified to minimum depth of 8" and compacted to minimum of 98% (pavement) and 98% (floor slabs and foundations) of optimum density, in accordance with ASTM D 698, at a moisture content of not less than 2% below and not more than 2% above the optimum moisture content. These areas shall then be proofrolled to detect any areas of insufficient compaction, soft and yielding material. Proofrolling shall be accomplished by making a minimum of two (2) complete passes with a fully-loaded tandem-axle dump truck, or approved equivalent, in each longitudinal and perpendicular directions under the supervision and direction of a field geotechnical engineer. Areas of failure shall be excavated and re-compacted as stated above.
- Fill materials used in preparation of subgrade shall be placed in lifts or layers not to exceed 8" loose measure and compacted to a minimum density of 98% (pavement) and 98% (floor slabs and foundations) of optimum density, in accordance with ASTM D 698, at a moisture content of not less than 2% below and not more than 2% above the optimum moisture content.
- Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort.
- Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement.
- No tree limbs, trunks, refuse from legally burnt vegetation, nor construction waste, demolition materials, or other man made material may be buried within the area in which an impounding structure will be located.
- Contractor shall ensure adequate protection of storm sewer pipes throughout entire construction sequence.
- Contractor shall connect downspouts to storm sewer network via P305, P500, or P501.

Indiana Underground Plant Protection Services
Notified: 02/28/2020
Ticket Number: 2002281907 & 2002281913

The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site pot holing has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.

811

A. Utilities as marked on ground shown on survey.
B. Contractor is responsible to contact the above at 811 prior to any work on site.





All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project.

4803 Rossford Ln., Newburgh, IN 47030
812-464-9556 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil Phase 1 Grading and Drainage Plan

No.	By	Date
Revisions		
Scale: 1" = 30'		
Designed By:	JEM	Job Number: 11060.1.002-A
Drawn By:	CRS	Date: 10.23.2020
Filename:	11060 Civil Base	
Sheet Number:	C102-B	

Existing Legend

- Building Setback Line
- Center Line
- Fence Line
- Property Boundary Line
- Right-of-way Line
- Overhead Electric
- Overhead Utilities
- Underground Communication
- Underground Electric
- Underground Gas
- Underground Water
- See Surveyor's Report Item
- See Surveyor's Notes
- Air Conditioner Unit
- Area Drain
- Cleanout
- Electric Meter
- Fire Hydrant
- Gas Valve
- Guy Wire
- Mail Box
- Sanitary Sewer Manhole
- Sign
- Utility Pole
- Utility Pole with Drop
- Utility Pole with Light
- Utility Pole with Meter
- Utility Pole Transformer
- Water Meter
- Water Valve
- Calculated Dimension (C)
- Measured Dimension (M)
- Plat Dimension per Hammel-Wright (Plat Book U, Page 189) (P)
- Record Dimension (R)
- Point Of Beginning (P.O.B.)
- Point Of Commencement (P.O.C.)
- Mag Nail with Washer stamped "Morley ID#0023" (set flush)
- 5/8" Rebar with cap stamped "Greg Kissel IN RLS 20700076" (found flush)
- Mag Nail with Washer stamped "Greg Kissel IN RLS 20700076" (found flush)
- Monument found as noted

Proposed Legend

- Proposed Grade
- Gut = Gutter Grade
- EP = Edge of Pavement
- EC = Edge of Concrete
- ME = Match Existing
- Proposed Valley Break Line
- Proposed Crest Break Line
- Storm Sewer Pipe
- Proposed Contour
- Area Drain, AD
- Curb Inlet, CI
- Flared End Section, FES
- Flowline and Direction of Flow

Seeding Schedule

- Permanent Vegetative Stabilization
- Seeding from November 15 to February 28:
 - Seed mixture will be applied at a rate of 3 to 4 pounds of Bluegrass and 1 pound of Tall Fescue per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place.
 - Fertilizer having a composition of 12-12-12 will not be applied until the following March. Fertilizer will be applied at a rate of 19 pounds per 1000 square feet.
 - Seeding from March 1 to November 14:
 - Seed mixture will be applied at a rate of 6 1/2 pounds of Kentucky 31 Fescue and 1 1/2 pounds of Perennial Rye per 1000 square feet.
 - Fertilizer having a composition of 12-12-12 will be applied at a rate of 19 pounds per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place. Schedule when each disturbed area will be stabilized.
 - Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50. F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Site Grading Guidelines:

- Minimum pavement slope = 0.5% flow.
- All surfaces shall be graded to drain. All grading to slope away from buildings. All disturbed areas to be seeded and mulched.
- Local, state, and national laws and guidelines shall take precedence over design information if in conflict. Contractor shall inform client and Morley and Associates, Inc. in writing if any conflicts arise.
- Maximum cross slopes shall be 1:48 (2.0%) of pedestrian travel paths and landings.
- Changes in level 1/4 in. or less may be vertical without edge treatment. Changes in level between 1/4 in. and 1/2 in. shall be beveled with a slope no greater than 1:2. Changes in level greater than 1/2 in. shall incorporate a "ramp". Maximum slope on ramp shall be 1:12.
- Landings at a change in direction shall be 60 inches wide and 60 inches long (minimum).
- Maximum slope in an ADA parking space and its aisle shall be 1:50.
- All areas of new facilities and altered portions of existing facilities shall comply with the Americans with Disabilities Act (ADA) Accessibility Guidelines.
- Maximum earthen slope shall be 3:1 unless otherwise approved by an Engineer.
- Contractor to verify finish floor elevation prior to constructing parking lot. A maximum 1/4 in. drop in elevation from finish floor to edge of pavement shall be constructed at all doorways.

Structure and Pipe Data Table

Structure	Description	Size (in.)	Length (ft.)	US IE	DS IE	Slope	RIM/FG
FES 100	FLARED END SECTION	18	-	452.59	452.58	-	-
P 101	HDPE	18	96.57	452.79	452.59	0.21%	-
FES 102	FLARED END SECTION	18	-	452.80	452.79	-	-
FES 200	FLARED END SECTION	10	-	451.31	451.30	-	-
P 201	HDPE	10	52.32	451.49	451.31	0.34%	-
FES 202	FLARED END SECTION	10	-	451.50	451.49	-	-
FES 300	FLARED END SECTION	18	-	451.77	451.75	-	-
P 301	HDPE	18	18.65	451.87	451.77	0.5%	-
CI 302	CURB INLET	-	-	-	451.87	-	455.00
P 303	HDPE	18	129.51	452.52	451.87	0.5%	-
AD 304	AREA DRAIN	-	-	-	452.52	-	455.30
P 305	PVC	8	106.32	453.58	452.52	1.0%	-
FES 400	FLARED END SECTION	15	-	451.92	451.90	-	-
P 401	HDPE	15	18.46	452.02	451.92	0.5%	-
CI 402	CURB INLET	-	-	-	452.02	-	454.40
P 403	HDPE	15	120.06	452.60	452.02	0.5%	-
CI 404	CURB INLET	-	-	-	452.60	-	456.00
P 405	HDPE	12	133.33	453.50	452.80	0.5%	-
AD 406	AREA DRAIN	-	-	-	453.50	-	456.40
P 500	PVC	8	72.82	453.33	452.60	1.0%	-
P 501	PVC	8	70.00	454.20	453.50	1.0%	-

Drainage Phasing Notes:

- As part of Phase 1, contractor shall install AD406, P405, CI404, 91 LF of P403, AD 304, 104 LF of P303, P101, FES 100 and FES 102 as well as all temporary basins and all temporary storm sewer pipes and structures, as shown on this plan.
- Phase 1 construction includes approximately 33,500 SF of impervious improvements, for which storage has been accounted for in both temporary basins.
- Refer to Phase 1 Storm Water Pollution Prevention Plan C504-B and the Storm Water Pollution Prevention Report for all erosion control measures for Phase 1 construction.
- Upon the completion of Phase 1 construction, contractor shall install the remaining storm sewer pipes and structures and construct the permanent detention basin. All temporary storm water facilities shall remain in place until such time that all permanent drainage facilities have been installed, inspected, and as-built/certifications have been submitted.

Resource List

- Vectren Energy Delivery - electric**
Jeremiah Parker (jparker@vectren.com)
Electric Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-4754 - Office
812-205-1905 - Cell
- WOW**
James Fambrough (james.fambrough@wowinc.com)
6045 Wedeking Avenue, Evansville, IN 47715
812-437-0395 Office
812-305-4756 Cell
- Vectren Energy Delivery - gas**
Matt Stewart (mstewart@vectren.com)
Gas Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-5773
- Drainage or Public Land Issues in the County**
Jeff Mueller (jmueller@vanderburghsurveyor.com)
Vanderburgh County Surveyor
Room 325 Civic Center Complex
1 NW Martin Luther King Jr Blvd, Evansville, IN 47708
812-435-5210
- County Roads and Erosion Issues in the County**
John Stoll (jstoll@vanderburghgov.org)
Vanderburgh County Engineer
201 NW Fourth Street, Suite 306, Evansville, IN 47708
812-435-5773
- CALL BEFORE YOU DIG-BURIED LINE LOCATION CALL 811**
- AT&T**
Marc Clark (mc3429@att.com)
Engineering Department
134 NW Sixth Street, Evansville, IN 47708
812-464-6050
- Evansville Water and Sewer Utility**
Doug Ohning (djonhning@ewsu.com)
Manager of Planning and Development
PO Box 19, Evansville, IN 47740
812-421-2120, EXT. 2217

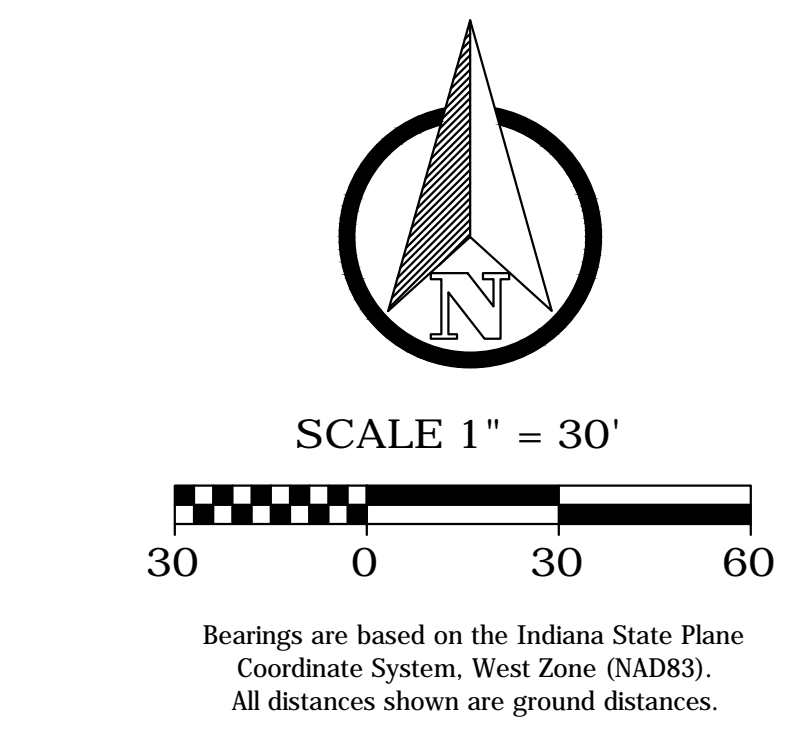
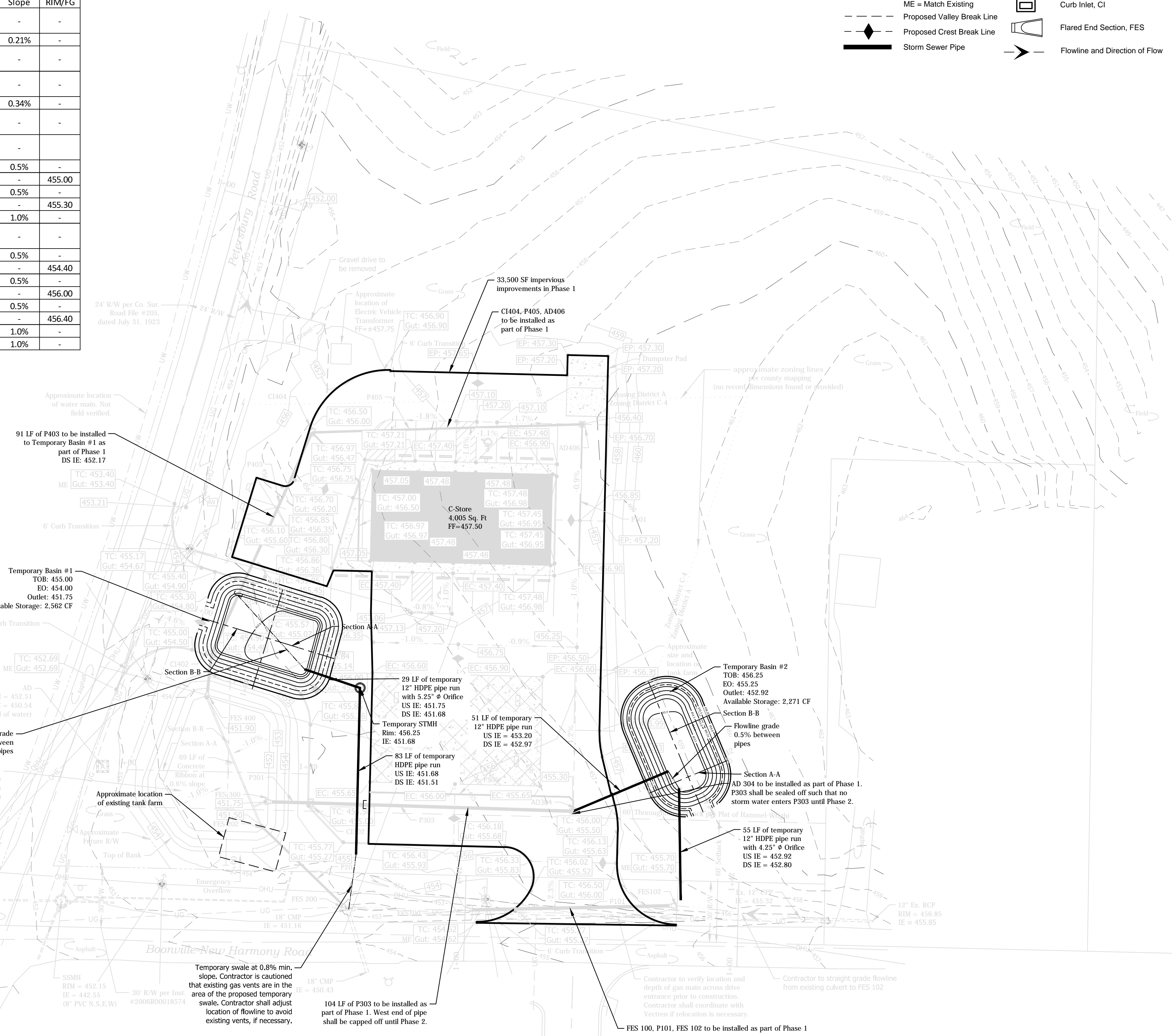
General Notes:

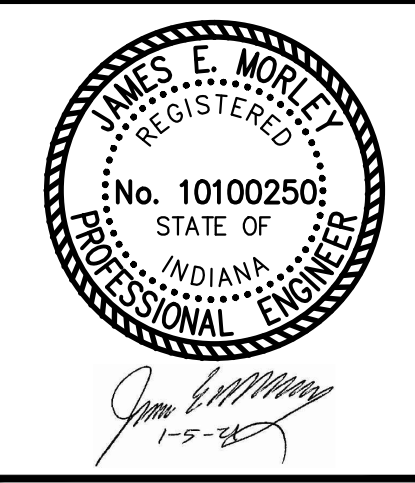
- Contractor and materials shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work.
- The contractor is cautioned that the location, elevation, size and/or material type of existing utilities as shown on these plans is based on records of various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor is responsible for the accurate location elevation, size and/or material type of all utilities and hazards whether shown or not. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location elevation, size and/or material type of utilities.
- Material specifications shall be in conformance with applicable portions of the INDOT Standard Specifications, (latest edition), memorandums and supplements unless specifically stated otherwise on these plans, contract documents or local code.
- All pipe lengths are measured center of structure to center of structure.
- Design pipe slopes are calculated from the center of structure to the center structure. Construction pipe slopes may vary slightly if the structure cross slope does not match the design pipe slope.
- The contractor shall repair and/or replace all existing utilities damaged as a result of this project.
- The contractor shall be responsible for notifying all occupants of interruption to their utilities that will be caused by this project.
- The contractor shall maintain the road right-of-way which has been disturbed. Maintenance shall meet the approval of the governing engineer.
- Contractor shall erect and maintain all necessary barricades, detour signs, warning signals and lights (in conformance with the Manual on Uniform Traffic Control Devices - latest edition) and INDOT Standard Specifications, memorandums and supplements required to direct traffic safely over or around the place where work is being done, that in any way interferes with traffic or pedestrians.
- Areas exposed by excavation or stripping and on which subgrade preparations are to be performed shall be scarified to minimum depth of 8" and compacted to minimum of 98% (pavement) and 98% (floor slabs and foundations) of optimum density, in accordance with ASTM D 698, at a moisture content of not less than 2% below and not more than 2% above the optimum moisture content. These areas shall then be proofrolled to detect any areas of insufficient compaction, soft and yielding material. Proofrolling shall be accomplished by making a minimum of two (2) complete passes with a fully-loaded tandem-axle dump truck, or approved equivalent, in each longitudinal and perpendicular directions under the supervision and direction of a field geotechnical engineer. Areas of failure shall be excavated and re-compacted as stated above.
- Fill materials used in preparation of subgrade shall be placed in lifts or layers not to exceed 8" loose measure and compacted to a minimum density of 98% (pavement) and 98% (floor slabs and foundations) of optimum density, in accordance with ASTM D 698, at a moisture content of not less than 2% below and not more than 2% above the optimum moisture content.
- Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort.
- Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement.
- No tree limbs, trunks, refuse from legally burnt vegetation, nor construction waste, demolition materials, or other man made material may be buried within the area in which an impounding structure will be located.
- Contractor shall ensure adequate protection of storm sewer pipes throughout entire construction sequence.
- Contractor shall connect downspouts to storm sewer network via P305, P500, or P501.

Indiana Underground Plant Protection Services
Notified: 02/28/2020
Ticket Number: 2002281907 & 2002281913

The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site spot holing has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.

A. Utilities as marked on ground shown on survey.
B. Contractor is responsible to contact the above at 811 prior to any work on site.





All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project.

4800 Rossford Ln., Newburgh, IN 47030
812-464-1555 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil Utility Plan

No.	By	Date
Revisions		
Scale: 1" = 30'		
Designed By:	JEM	Job Number: 11060.1.002-A
Drawn By:	CRS	Date: 1.5.2021
Filename:	11060 Civil Base	
Sheet Number:	C103	

Existing Legend

- (C) Calculated Dimension
- (M) Measured Dimension
- (P) Plat Dimension per Hammel-Wright (Plat Book U, Page 189)
- (R) Record Dimension
- P.O.B. Point Of Beginning
- P.O.C. Point Of Commencement
- Mag Nail with Washer stamped "Morley ID#0023" (set flush)
- 5/8" Rebar with cap stamped "Greg Kissel IN RLS 20700076" (found flush)
- Mag Nail with Washer stamped "Greg Kissel IN RLS 20700076" (found flush)
- Monument found as noted

General Notes

- Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort.
- Contractor shall be responsible for coordinating with Vectren for the location and installation of any electric and/or gas lines on site.
- Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement.

Proposed Legend

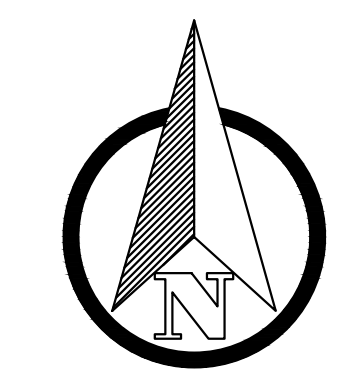
- Sanitary Sewer Lateral
- Water Line
- Cleanout
- Storm Sewer Pipe
- Building Footprint
- Area Drain, AD
- Curb Inlet, CI
- Flared End Section

Temporary Benchmarks

Benchmark Data: Elevations are based on NAVD 88 (INCORS Network) utilizing on-site GPS observations.

TBM 1 = 454.63
Chiseled "X" on East head bolt on fire hydrant. ±20' South of Boonville-New Harmony Road centerline and ±190' East of the intersection of Boonville-New Harmony Road and Petersburg Road.

TBM 2 = 454.91
Chiseled "X" on South head bolt on fire hydrant. ±15' West of Petersburg Road centerline and ±448' North of the intersection of Boonville-New Harmony Road and Petersburg Road.



SCALE 1" = 30'



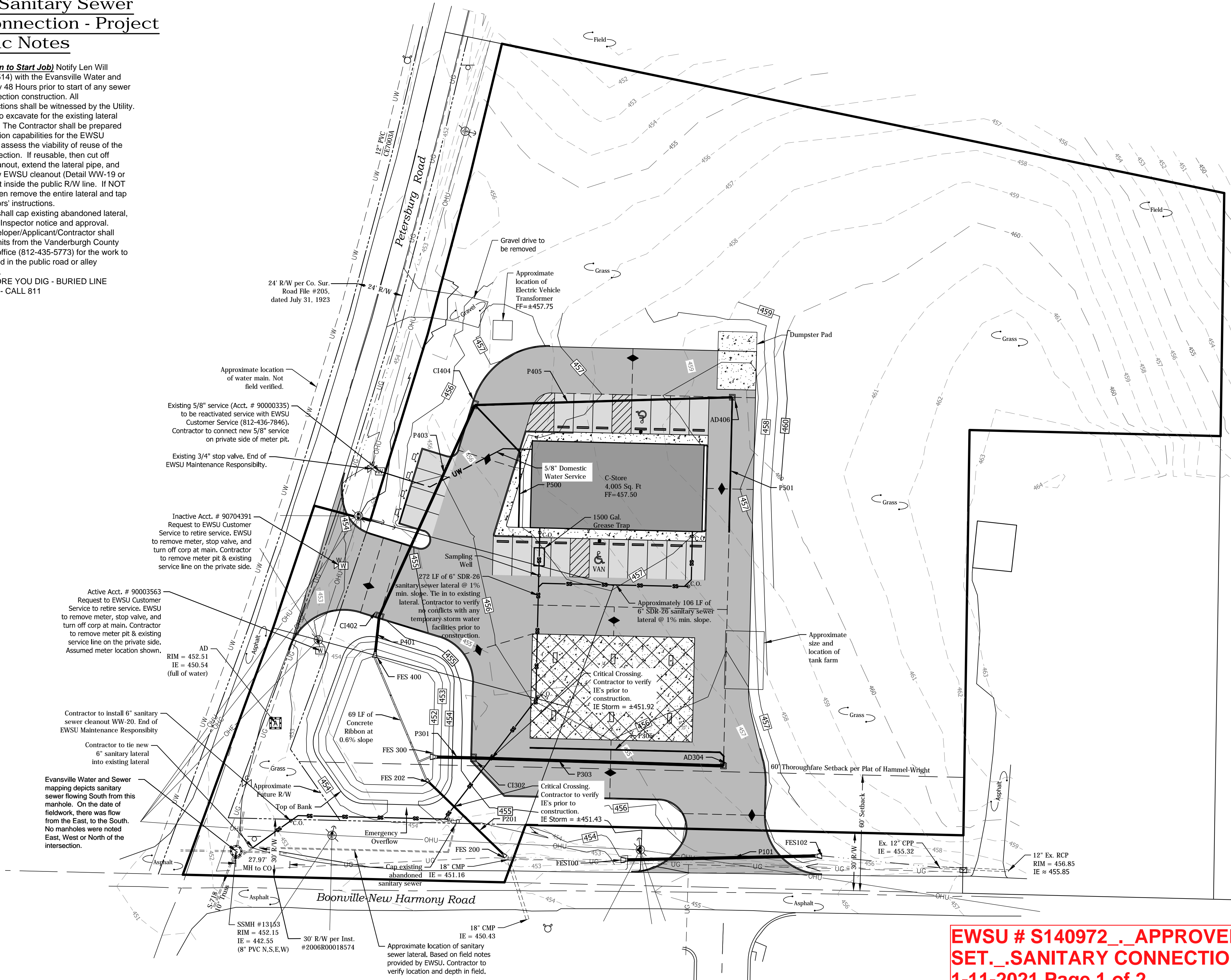
Bearings are based on the Indiana State Plane Coordinate System, West Zone (NAD83). All distances shown are ground distances.

EWSU Sanitary Sewer Tap/Connection - General Notes

- Contractor shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work, which may not be recognized on the approved plan set.
- The contractor is cautioned that the location and/or elevation of existing utilities, as shown on these plans, is based on records of various utility companies, and where possible measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. **Contractor shall locate existing utilities and establish elevations and clearances with proposed improvements prior to initiating construction.** Indiana underground utility locate service (IUPSS) phone: 811.
- Material specifications shall be in conformance with applicable portions of the IDEM standard specifications, (latest edition) unless specifically stated otherwise on these plans, contract documents, or EWSU water and sewer manual.
- All sanitary sewer tap/connections shall be witnessed by an EWSU inspector. The contractor is to provide a minimum of 48 hour notice (Len Will, 812-305-7514) before construction commences.
- Minimum of 18 inch vertical and 10 feet horizontal clearance to be maintained between water lines and sewer lines.
- Minimum depth of cover for sanitary sewer laterals is 3 feet to top of pipe.
- Any required easement shall be recorded and provided prior to start of construction.
- Taps shall be installed at the approved plan locations. Any desired location changes shall be approved by the EWSU utility inspector. Taps not to be made within 6 feet of any other tap. No taps or laterals to be made within 3 feet of any property line. No taps or laterals to be made within 6 feet of any utility pole or component.
- Bypass pumping and/or other methods may be necessary to complete the tapping of the existing sanitary sewers. The contractor is responsible for adhering to the Evansville Sewer Overflow Response Plan (SORP) as it has to do with sewer overflow responsibilities.
- Owner/Developer/Applicant/Contractor shall secure a Construction or Road Cut Permit through the Vanderburgh County Engineer's office (812-435-5773) for the work to be performed in the public road or alley right-of-way.
- All capping/plugging of all existing lateral tap/connections shall be witnessed by an EWSU inspector. The contractor is to provide a minimum of 24 hour notice (Len Will, 812-305-7514) before construction commences.

EWSU Sanitary Sewer Tap/Connection - Project Specific Notes

- (Notification to Start Job)** Notify Len Will (812-305-7514) with the Evansville Water and Sewer Utility 48 Hours prior to start of any sewer tap or connection construction. All taps/connections shall be witnessed by the Utility.
- Contractor to excavate for the existing lateral connection. The Contractor shall be prepared with inspection capabilities for the EWSU Inspector to assess the viability of reuse of the lateral connection. If reusable, then cut off existing cleanout, extend the lateral pipe, and install a new EWSU cleanout (Detail WW-19 or WW-20) just inside the public R/W line. If NOT reusable, then remove the entire lateral and tap per inspectors' instructions.
- Contractor shall cap existing abandoned lateral, with EWSU Inspector notice and approval.
- Owner/Developer/Applicant/Contractor shall secure permits from the Vanderburgh County Engineer's office (812-435-5773) for the work to be performed in the public road or alley right-of-way.
- CALL BEFORE YOU DIG - BURIED LINE LOCATION - CALL 811**



Resource List

- Vectren Energy Delivery - electric**
Jeremiah Parker (jparker@vectren.com)
Electric Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-4754 - Office
812-205-1905 - Cell
- WOW**
James Fambrough (james.fambrough@wowinc.com)
6045 Wedeking Avenue, Evansville, IN 47715
812-437-0395 Office
812-305-4756 Cell
- Vectren Energy Delivery - gas**
Matt Stewart (mstewart@vectren.com)
Gas Distribution Engineer
1 North Main Street, Evansville, IN 47708
812-491-5773
- Drainage or Public Land Issues in the County**
Jeff Mueller (jmueller@vanderburghsurveyor.com)
Vanderburgh County Surveyor
Room 325 Civic Center Complex
1 NW Martin Luther King Jr Blvd, Evansville, IN 47708
812-435-5210
- AT&T**
Marc Clark (mc3429@att.com)
Engineering Department
134 NW Sixth Street, Evansville, IN 47708
812-464-6050
- County Roads and Erosion Issues in the County**
John Stoll (jstoll@vanderburghgov.org)
Vanderburgh County Engineer
201 NW Fourth Street, Suite 306, Evansville, IN 47708
812-435-5773
- Evansville Water and Sewer Utility**
Doug Ohning (djonhning@ewsu.com)
Manager of Planning and Development
PO Box 19, Evansville, IN 47740
812-421-2120, EXT. 2217
- CALL BEFORE YOU DIG-BURIED LINE LOCATION CALL 811**
- Spectrum**
Daryl Hulsey (daryl.hulsey@charter.com)
Construction Coordinator
1900 Old Business 41, P.O. Box 4658, Evansville, IN 47724-0658
812-253-2755 Office
812-305-8348 Cell

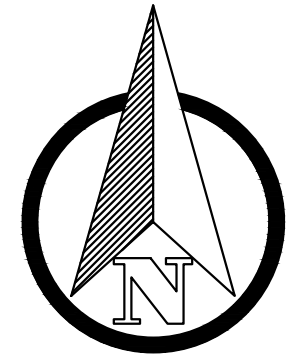
Indiana Underground Plant Protection Services
Notified: 02/28/2020
Ticket Number: 2002281907 & 2002281913

The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site spot holding has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.

811

A. Utilities as marked on ground shown on survey.
B. Contractor is responsible to contact the above at 811 prior to any work on site.

EWSU # S140972 - APPROVED PLAN SET - SANITARY CONNECTION
1-11-2021 Page 1 of 2



SCALE 1" = 30'



Bearings are based on the Indiana State Plane Coordinate System, West Zone (NAD83). All distances shown are ground distances.

Temporary Benchmarks

Benchmark Data: Elevations are based on NAVD 88 (INCORS Network) utilizing on-site GPS observations.

TBM 1 = 454.63 Chiseled 'X' on East head bolt on fire hydrant. ±20' South of Boonville-New Harmony Road centerline and ±190' East of the intersection of Boonville-New Harmony Road and Petersburg Road.

TBM 2 = 454.91 Chiseled 'X' on South head bolt on fire hydrant. ±15' West of Petersburg Road centerline and ±448' North of the intersection of Boonville-New Harmony Road and Petersburg Road.

Permanent Seeding Schedule

Permanent Vegetative Stabilization

- Seeding from November 15 to February 29: Seed mixture will be applied at a rate of 3 to 4 pounds of Bluegrass and 1 pound of Tall Fescue per 1000 square feet. Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place. Fertilizer having a composition of 12-12-12 will not be applied until the following March. Fertilizer will be applied at a rate of 19 pounds per 1000 square feet. Seeding from March 1 to November 14: Seed mixture will be applied at a rate of 6 1/2 pounds of Kentucky 31 Fescue and 1 1/2 pounds of Perennial Rye per 1000 square feet. Fertilizer having a composition of 12-12-12 will be applied at a rate of 19 pounds per 1000 square feet. Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place. Schedule when each disturbed area will be stabilized. Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50°F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Temporary Seeding Schedule

Temporary Vegetative Stabilization

- The contractor shall provide for immediate temporary seeding and mulching when construction activities are expected to cease for a period of more than 15 days or when directed by the Engineer. Contractor shall provide temporary seeding or covers for all soil stockpiles. Temporary seeding shall not be subjected to seasonal limitations as defined herein. Cold Season Seeding - Winter Wheat: 90 to 120 pounds per acre, 2.0 to 2.5 pounds per 1,000 square foot Cold and low pH tolerant, height up to 3 ft. Mild Season Seeding - Annual Rye Grass: 75 pounds per acre 2 pounds per 1,000 square foot Not heat tolerant, height up to 16 inches. Warm Season Seeding - Millets, Warm Season Annuals, Sudan Grass: 45 to 60 to 1.5 pounds per 1,000 square foot Aggressive growth, height up to 5 ft. The project shall be sequenced with the appropriate seasons for a vegetative temporary or permanent stabilization. If the project falls out of sequence for a vegetative stabilization, non-vegetative stabilization shall be implemented in the areas without temporary or permanent vegetative stabilization. Non-vegetative stabilization would include anchored mulch or other non-erosive material applied to seventy percent of the disturbed area. Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50°F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Existing Legend

- Air Conditioner Unit, Area Drain, Cleanout, Electric Meter, Fire Hydrant, Gas Meter, Gas Valve, Guy Wire, Mail Box, Sanitary Sewer Manhole, Sign, Utility Pole, Utility Pole with Drop, Utility Pole with Light, Utility Pole Transformer, Water Meter, Water Valve, Building Setback Line, Center Line, Fence Line, Property Boundary Line, Right-of-way Line, Overhead Electric, Overhead Communication, Overhead Utilities, Underground Electric, Underground Gas, Underground Water, See Surveyor's Report Item, See Surveyor's Notes, Calculated Dimension, Measured Dimension, Plat Dimension per Hammel-Wright (Plat Book U, Page 189), Record Dimension, Point Of Beginning, Point Of Commencement, Mag Nail with Washer stamped 'Morley ID#0023' (set flush), 5/8" Rebar with cap stamped 'Greg Kissel IN RLS 20700076' (found flush), Mag Nail with Washer stamped 'Greg Kissel IN RLS 20700076' (found flush), Monument found as noted.

Erosion Notes:

- All details and practice standards are shown in the most current edition of the Indiana Storm Water Quality Manual. Contractor should obtain a copy of this handbook from the following website www.idem.in.gov/stormwater or contact IDEM directly. Construct temporary gravel construction entrance/exit pad before commencing construction. Protect all drop inlets during construction with an approved form of drop inlet protection. The pollution prevention plans are general guidelines for the contractor to follow. The contractor is still required to keep all sediment off public roads and must follow all other guidelines as specified in the Indiana Storm Water Quality Manual. If any erosion control measure is not sufficient, the contractor shall add additional control measures as guided by the Indiana handbook. Filters, rock check dams, and/or silt fence may be required at locations other than those indicated on this plan. The contractor shall install such filters as needed to insure that runoff from disturbed areas does not leave the site without being treated. Topsoil shall be stockpiled and strategically located throughout the site. Bulk clearing of sediment from pavement by flushing with water shall not be permitted. Any improvements to existing swales or ditches shall not impede previous flow conditions. Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort.

Proposed Legend

- Permanent Seeding with mulching, Temporary Construction Ingress / Egress Pad, Motorized Heavy Equipment, Maintenance & Refueling Area and Employee Parking, Erosion Control Notification Sign, Portable Latrine - (suggested location), Construction Dumpster - (suggested location), F, Geotextile Fabric Drop Inlet Protection (ch 7 pg 153-157), C, Coir Mat Inlet Protection, G, Block and Gravel Drop Inlet Protection (ch 7 pg 163-166), Concrete Washout Basin, Stockpile (topsoil or subsoil) with Perimeter Silt Fence or Straw Bale Dam, Sediment Fence, Storm Sewer Pipe, Turf Reinforcement Mat, Erosion Control Blanket, Rock Dam, See C504, Energy Dissipater (Rip-rap Outlet Protection).

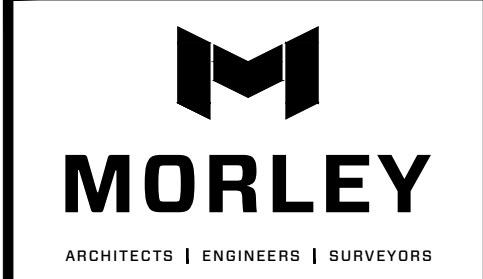
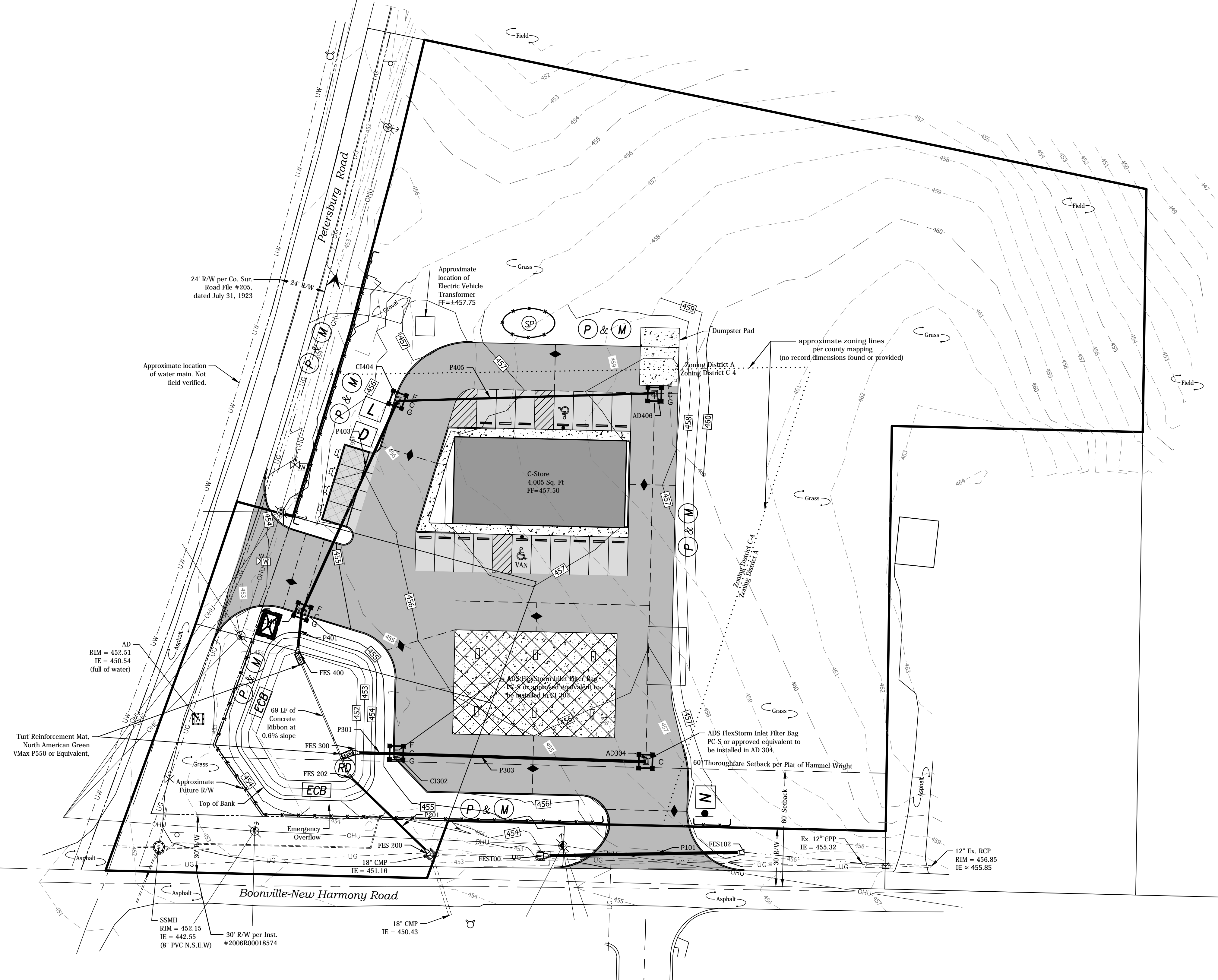
Disturbed Area = ± 1.92 Acres

Indiana Underground Plant Protection Services Notified: 02/28/2020 Ticket Number: 2002281907 & 2002281913

The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site pot holing has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.



A. Utilities as marked on ground shown on survey. B. Contractor is responsible to contact the above at 811 prior to any work on site.



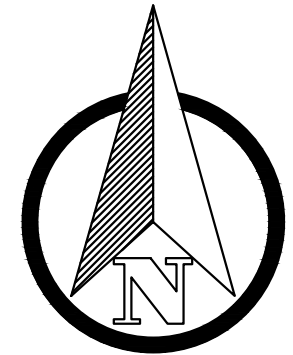
All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

4803 Rosebud Ln., Newburgh, IN 47030 812-464-9556 Phone 812-464-2514 Fax morleycorp.com

Convenience Store 11901 Petersburg Road Evansville, IN 47725

Civil Storm Water Pollution Prevention Plan

Table with 2 columns: No., Date. Includes a 'Revisions' section with fields for Scale (1" = 30'), Design By (JEM), Job Number (11060.1.002-A), Drawn By (CRS), Date (10.20.2020), and Sheet Number (C104-A).



SCALE 1" = 30'



Bearings are based on the Indiana State Plane Coordinate System, West Zone (NAD83). All distances shown are ground distances.

Temporary Benchmarks

Benchmark Data: Elevations are based on NAVD 88 (INCORS Network) utilizing on-site GPS observations.

TBM 1 = 454.63
Chiseled 'X' on East head bolt on fire hydrant. ±20' South of Boonville-New Harmony Road centerline and ±190' East of the intersection of Boonville-New Harmony Road and Petersburg Road.

TBM 2 = 454.91
Chiseled 'X' on South head bolt on fire hydrant. ±15' West of Petersburg Road centerline and ±448' North of the intersection of Boonville-New Harmony Road and Petersburg Road.

Permanent Seeding Schedule

Permanent Vegetative Stabilization

- Seeding from November 15 to February 29:
 - Seed mixture will be applied at a rate of 3 to 4 pounds of Bluegrass and 1 pound of Tall Fescue per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place.
 - Fertilizer having a composition of 12-12-12 will not be applied until the following March. Fertilizer will be applied at a rate of 19 pounds per 1000 square feet.
- Seeding from March 1 to November 14:
 - Seed mixture will be applied at a rate of 6 1/2 pounds of Kentucky 31 Fescue and 1 1/2 pounds of Perennial Rye per 1000 square feet.
 - Fertilizer having a composition of 12-12-12 will be applied at a rate of 19 pounds per 1000 square feet.
 - Mulch will be placed at a rate of 100 pounds per 1000 square feet and crimped into place. Schedule when each disturbed area will be stabilized.
- Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50°F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Temporary Seeding Schedule

Temporary Vegetative Stabilization

- The contractor shall provide for immediate temporary seeding and mulching when construction activities are expected to cease for a period of more than 15 days or when directed by the Engineer. Contractor shall provide temporary seeding or covers for all soil stockpiles. Temporary seeding shall not be subjected to seasonal limitations as defined herein.
- Cold Season Seeding - Winter Wheat:
 - 90 to 120 pounds per acre, 2.0 to 2.5 pounds per 1,000 square foot Cold and low pH tolerant, height up to 3 ft
- Mild Season Seeding - Annual Rye Grass:
 - 75 pounds per acre 2 pounds per 1,000 square foot Not heat tolerant, height up to 16 inches
- Warm Season Seeding - Millets, Warm Season Annuals, Sudan Grass:
 - 45 to 60 to 1.5 pounds per 1,000 square foot Aggressive growth, height up to 5 ft
- The project shall be sequenced with the appropriate seasons for a vegetative temporary or permanent stabilization. If the project falls out of sequence for a vegetative stabilization, non-vegetative stabilization shall be implemented in the areas without temporary or permanent vegetative stabilization. Non-vegetative stabilization would include anchored mulch or other non-erosive material applied to seventy percent of the disturbed area.
- Vegetated areas with a density of less than 70% shall be re-stabilized using appropriate methods to minimize the potential for erosion. If the project requires seeding when the soil temperatures are too low for germination to occur (less than 50°F), the contractor shall comply with the Indiana Storm Water Quality Manual for Dormant Seeding & Frost Seeding.

Existing Legend

- | | | | | | | | |
|--|----------------------|--|-------------------------|--|----------------------------|--------|--|
| | Air Conditioner Unit | | Mail Box | | Building Setback Line | (C) | Calculated Dimension |
| | Area Drain | | Sanitary Sewer Manhole | | Center Line | (M) | Measured Dimension |
| | Cleanout | | Sign | | Fence Line | (P) | Plat Dimension per Hammel-Wright (Plat Book U, Page 189) |
| | Electric Meter | | Utility Pole | | Property Boundary Line | (R) | Record Dimension |
| | Fire Hydrant | | Utility Pole with Drop | | Right-of-way Line | P.O.B. | Point Of Beginning |
| | Gas Meter | | Utility Pole with Light | | Overhead Electric | P.O.C. | Point Of Commencement |
| | Gas Valve | | Utility Pole with Meter | | Overhead Communication | | Mag Nail with Washer stamped "Morley ID#0023" (set flush) |
| | Guy Wire | | Water Meter | | Underground Utilities | | 5/8" Rebar with cap stamped "Greg Kissel IN RLS 20700076" (found flush) |
| | | | Water Valve | | Underground Electric | | Mag Nail with Washer stamped "Greg Kissel IN RLS 20700076" (found flush) |
| | | | | | Underground Gas | | Monument found as noted |
| | | | | | Underground Water | | |
| | | | | | See Surveyor's Report Item | | |
| | | | | | See Surveyor's Notes | | |

Erosion Notes:

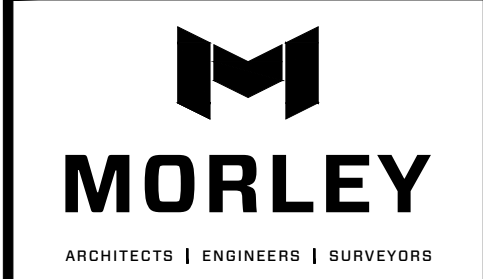
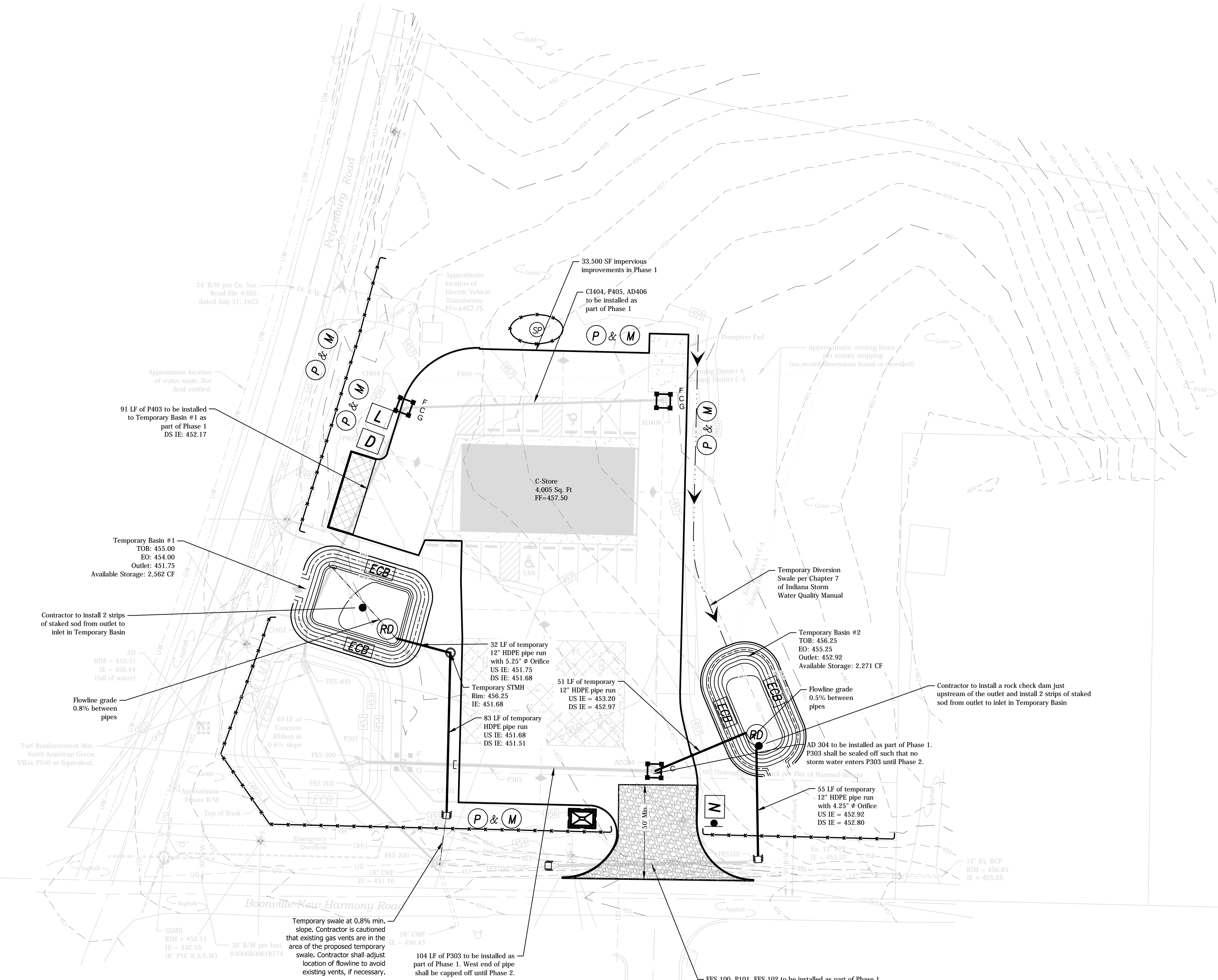
- All details and practice standards are shown in the most current edition of the Indiana Storm Water Quality Manual. Contractor should obtain a copy of this handbook from the following website www.idem.in.gov/stormwater or contact IDEM directly.
- Construct temporary gravel construction entrance/exit pad before commencing construction.
- Protect all drop inlets during construction with an approved form of drop inlet protection.
- The pollution prevention plans are general guidelines for the contractor to follow. The contractor is still required to keep all sediment off public roads and must follow all other guidelines as specified in the Indiana Storm Water Quality Manual.
- If any erosion control measure is not sufficient, the contractor shall add additional control measures as guided by the Indiana handbook.
- Filters, rock check dams, and/or silt fence may be required at locations other than those indicated on this plan. The contractor shall install such filters as needed to insure that runoff from disturbed areas does not leave the site without being treated.
- Topsail shall be stockpiled and strategically located throughout the site.
- Bulk clearing of sediment from pavement by flushing with water shall not be permitted.
- Any improvements to existing swales or ditches shall not impede previous flow conditions.
- Contractor shall verify all measurements and be responsible for any mistakes they may make as a result. If the contractor discovers any discrepancies in figures on the drawings, he/she shall report same to the Engineer before proceeding with any work affected by the discrepancy, and shall be held responsible for results should he/she fail to make such effort.

Proposed Legend

- | | |
|--|---|
| | Permanent Seeding with mulching |
| | Temporary Construction Ingress / Egress Pad |
| | Motorized Heavy Equipment, Maintenance & Refueling Area and Employee Parking |
| | Erosion Control Notification Sign |
| | Portable Latrine - (suggested location) |
| | Construction Dumpster - (suggested location) |
| | F, Geotextile Fabric Drop Inlet Protection (ch 7 pg 153-157)
C, Coir Mat Inlet Protection
G, Block and Gravel Drop Inlet Protection (ch 7 pg 163-166) |
| | Concrete Washout Basin |
| | Stockpile (topsoil or subsoil) with Perimeter Silt Fence or Straw Bale Dam |
| | Sediment Fence |
| | Storm Sewer Pipe |
| | Turf Reinforcement Mat |
| | Erosion Control Blanket |
| | Rock Dam, See C504 |
| | Energy Dissipator (Rip-rap Outlet Protection) |

Disturbed Area = ± 1.92 Acres

	Indiana Underground Plant Protection Services Notified: 02/28/2020 Ticket Number: 2002281907 & 2002281913
	The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site pot holing has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.
A. Utilities as marked on ground shown on survey. B. Contractor is responsible to contact the above at 811 prior to any work on site.	



All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

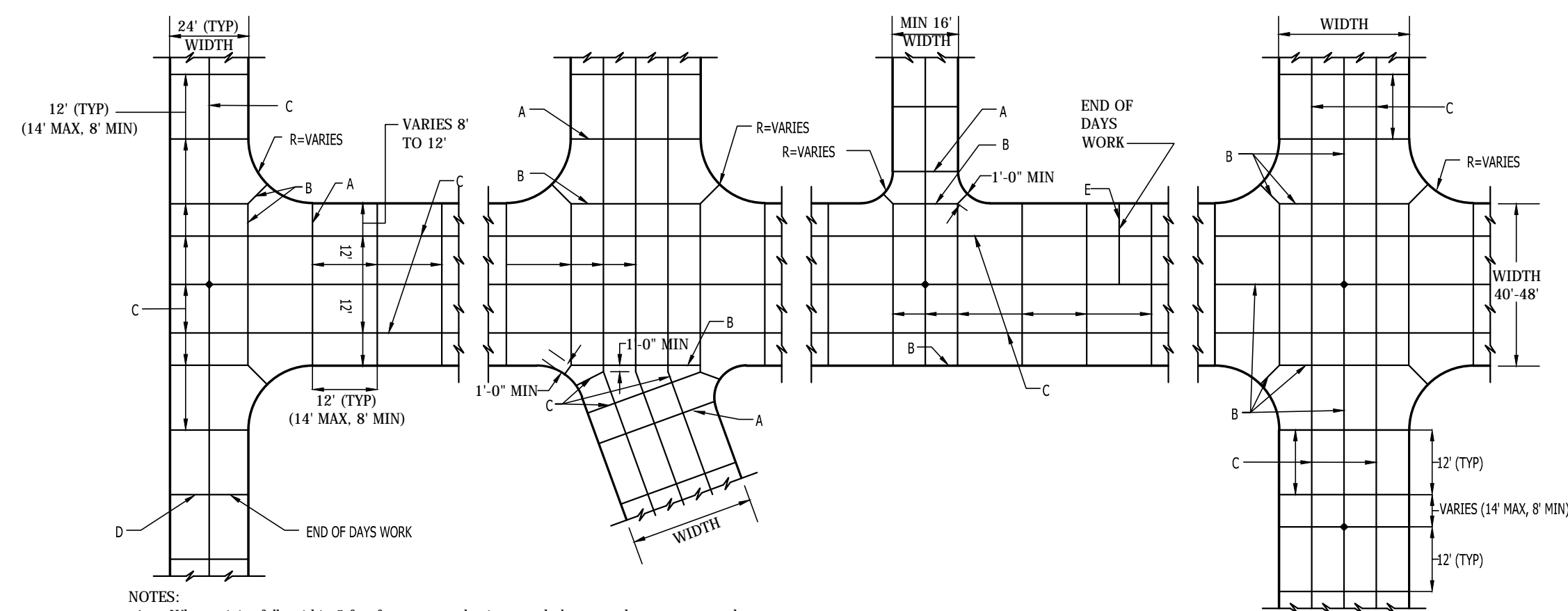
4803 Rosebud Ln., Newburgh, IN 47030
812-464-9556 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil

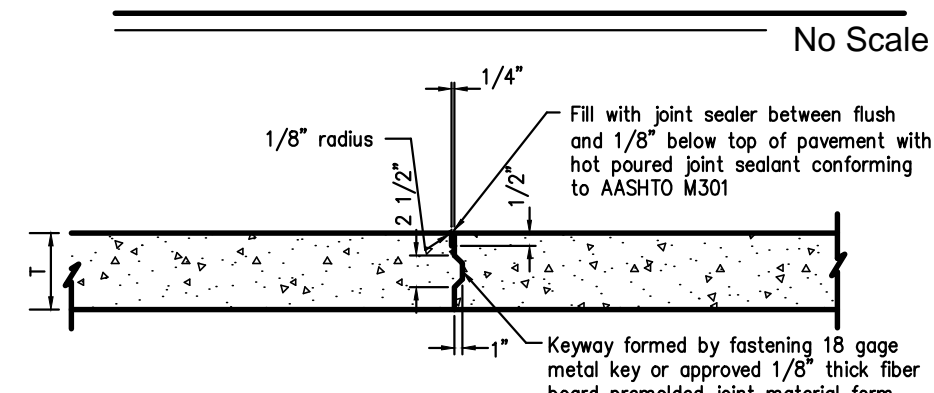
Phase 1 Storm Water Pollution Prevention Plan

No.	By	Date
Revisions		
Scale: 1" = 30'		
Designed By:	JEM	Job Number: 11060.1.002-A
Drawn By:	CRS	Date: 10.20.2020
Filename:	11060 Civil Base	
Sheet Number:	C104-B	

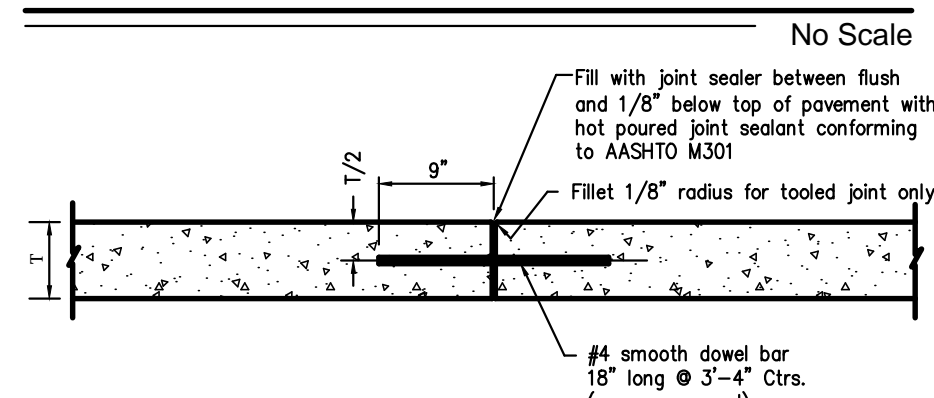


- NOTES:
- When a joint falls within 5 ft. of or contacts basins, manholes, or other structures, shorten one or more panels either side of opening to permit joint to fall on round structures and at or between corners of rectangular structures.
 - Joint Spacing not to exceed 12'-0"
 - T = Thickness of Pavement

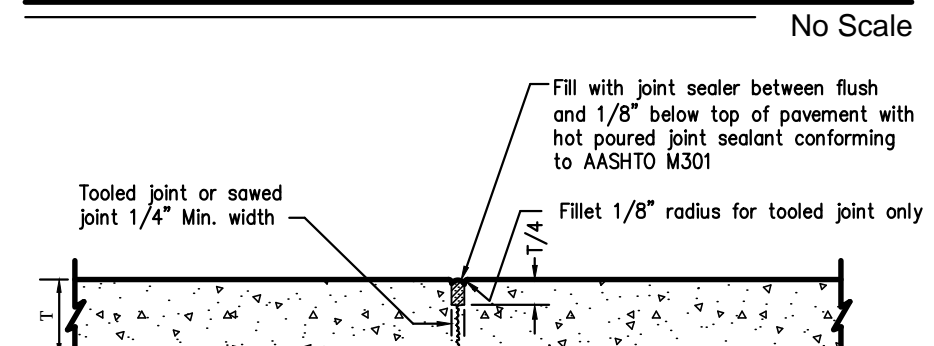
Plan of Joint Location



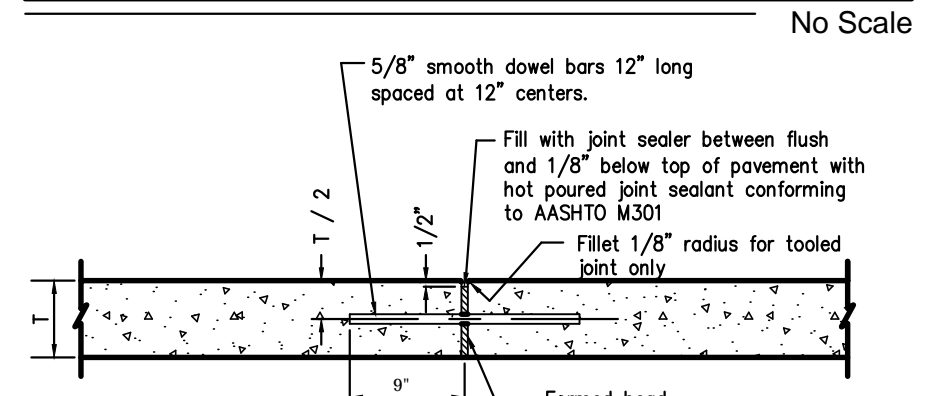
Type B - Longitudinal Construction Joint



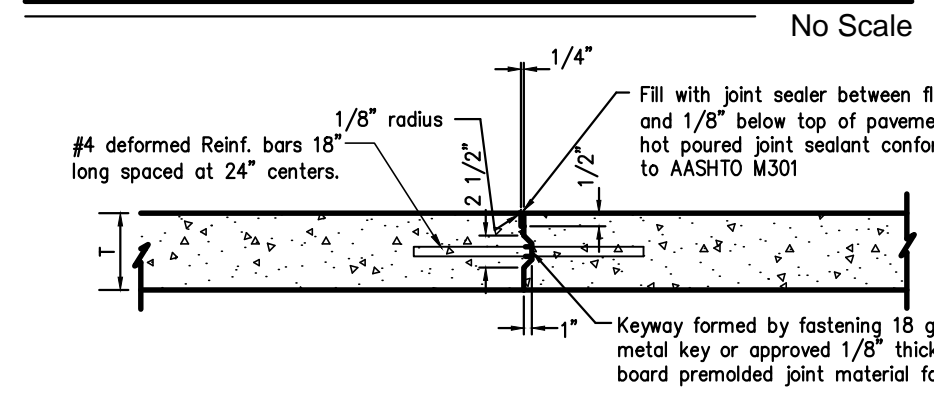
Type B (Alt) - Longitudinal Construction Joint



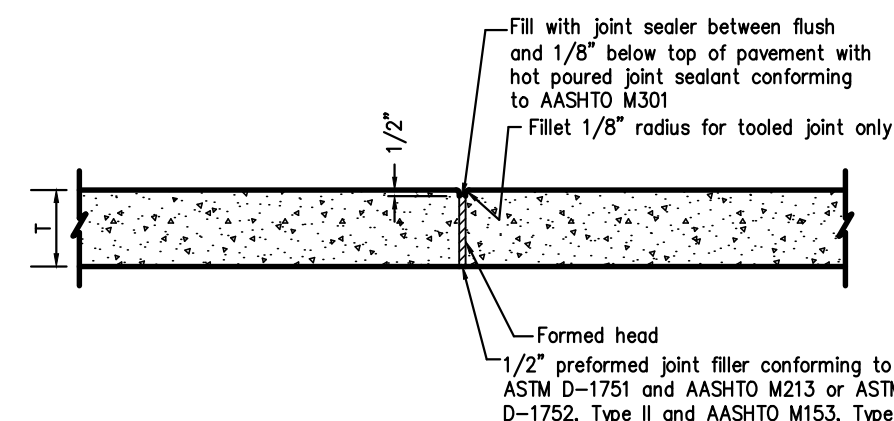
Type C - Longitudinal, Transverse or 'Ear' Contraction Joint



Type D - Transverse Construction Joint



Type E - Tied Transverse Construction Joint



Type A - Transverse Expansion Joint

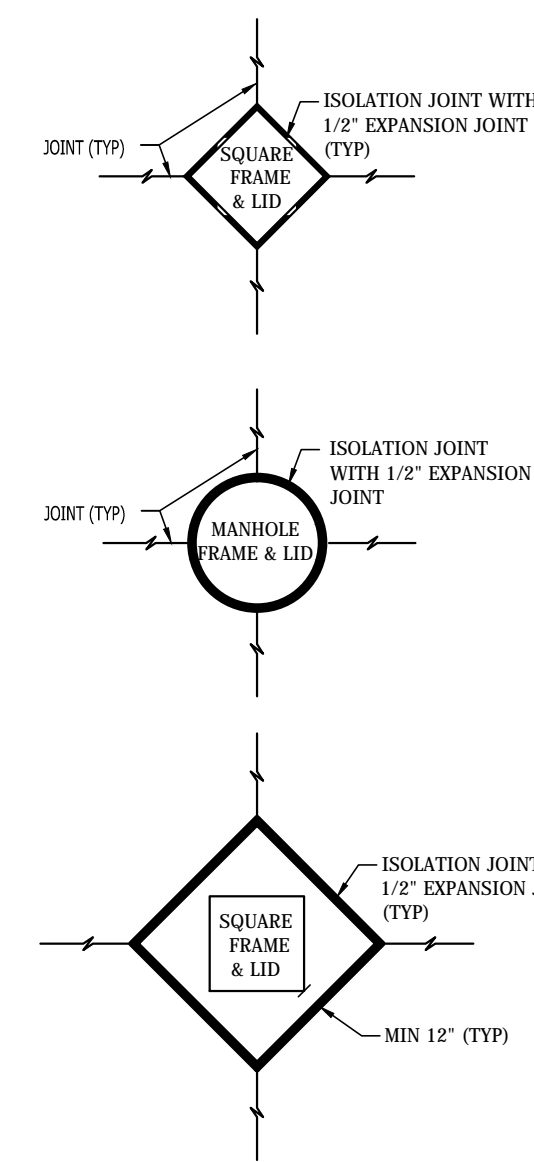


Type B (Alt) - Longitudinal Construction Joint

Type C - Longitudinal, Transverse or 'Ear' Contraction Joint

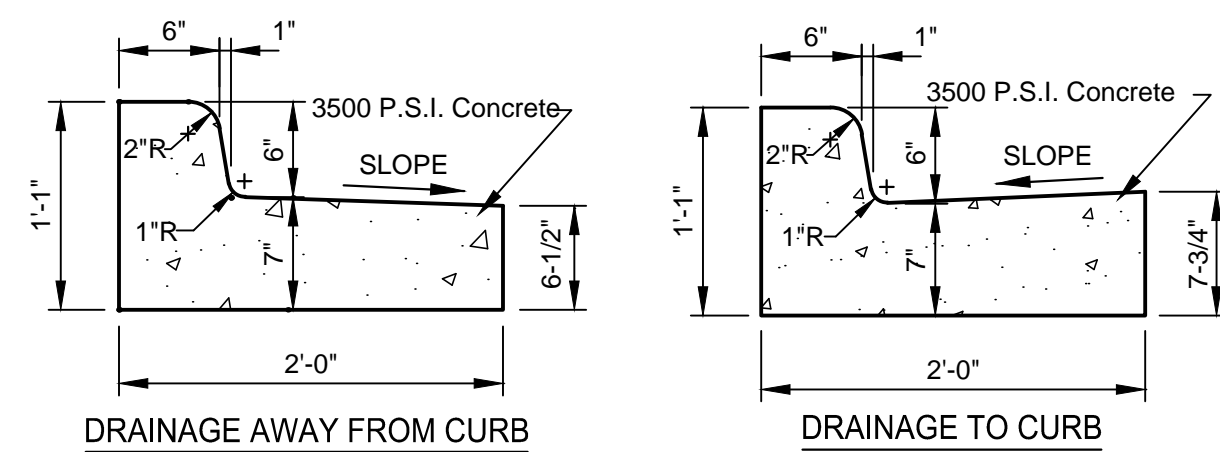
Type D - Transverse Construction Joint

Type E - Tied Transverse Construction Joint



Plan-Joint Detail at Round Structure or Square Structure in Slab

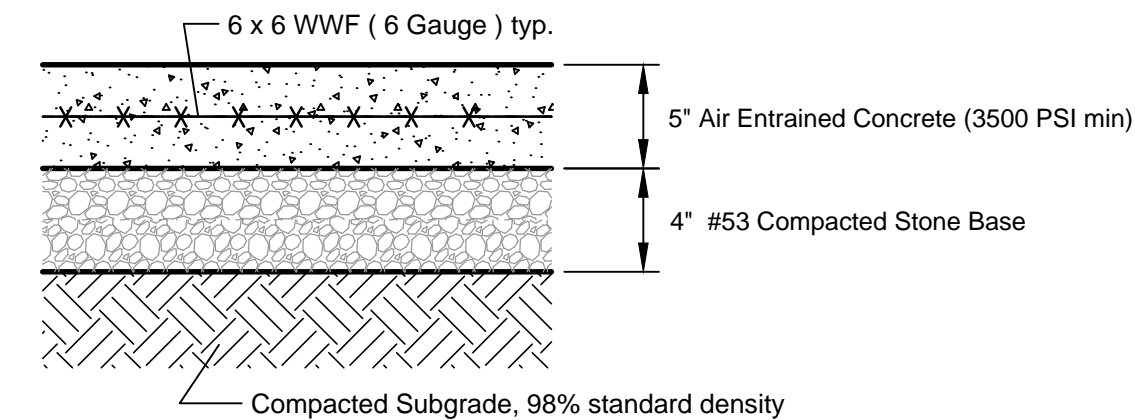
No Scale



- Notes:
- 1/2" Preformed Expansion Joint material at all P.C. & P.T. of Curb Radius
 - Tooled Contraction Joints at 10'-0" centers. Contraction Joint to be Minimum 2-1/2" deep and 1/8" wide.

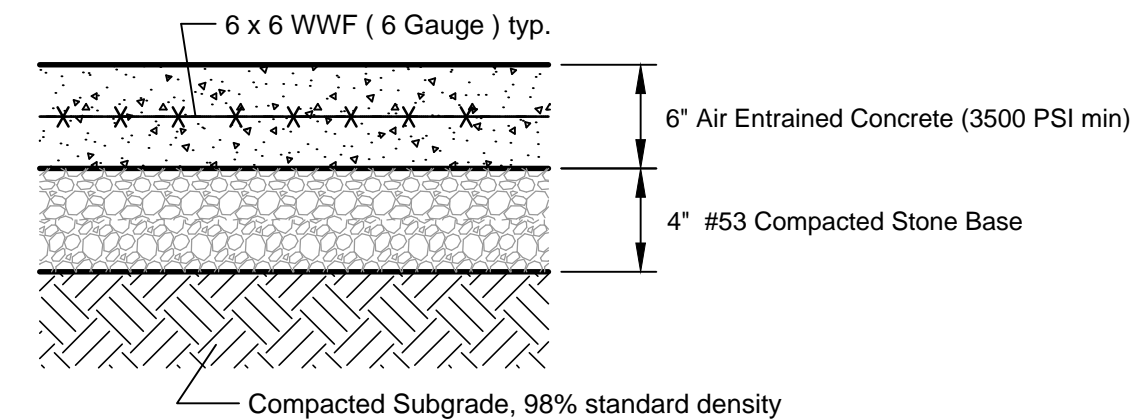
Straight Curb and Gutter Drain Toward & Away From Curb

Scale: 1"=1'-0"



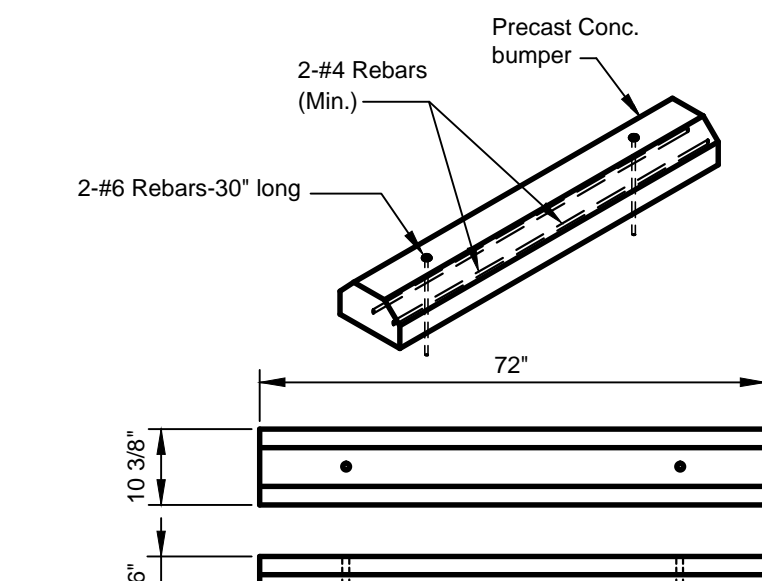
Standard Concrete Pavement

No Scale



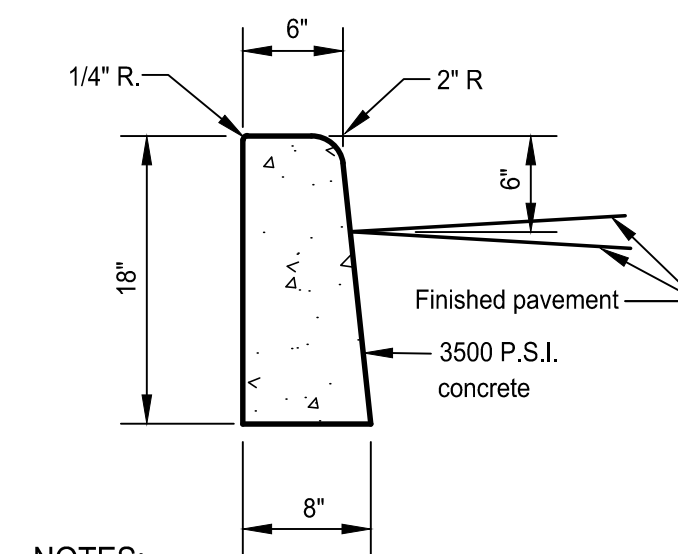
Heavy Duty Concrete Pavement

No Scale



Concrete Wheelstop Detail

No Scale

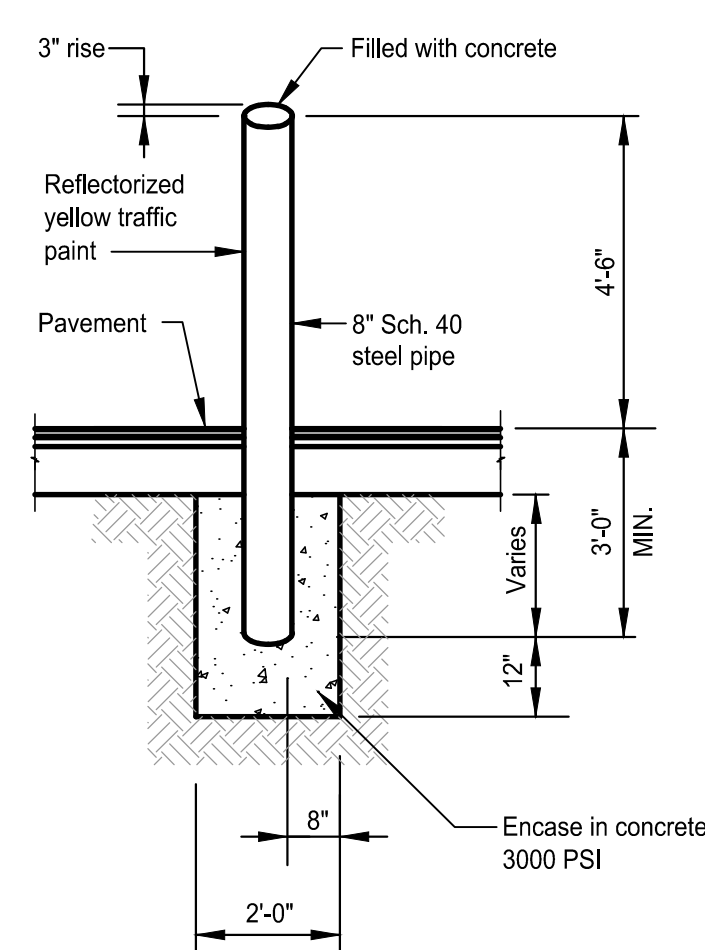


NOTES:

- 1/2" preformed expansion joint material at all P.C. & P.T. of curb.
- Tooled contraction joints at 10'-0" centers, contraction joint to be minimum 2" deep & 1/8" to 1/4" wide.

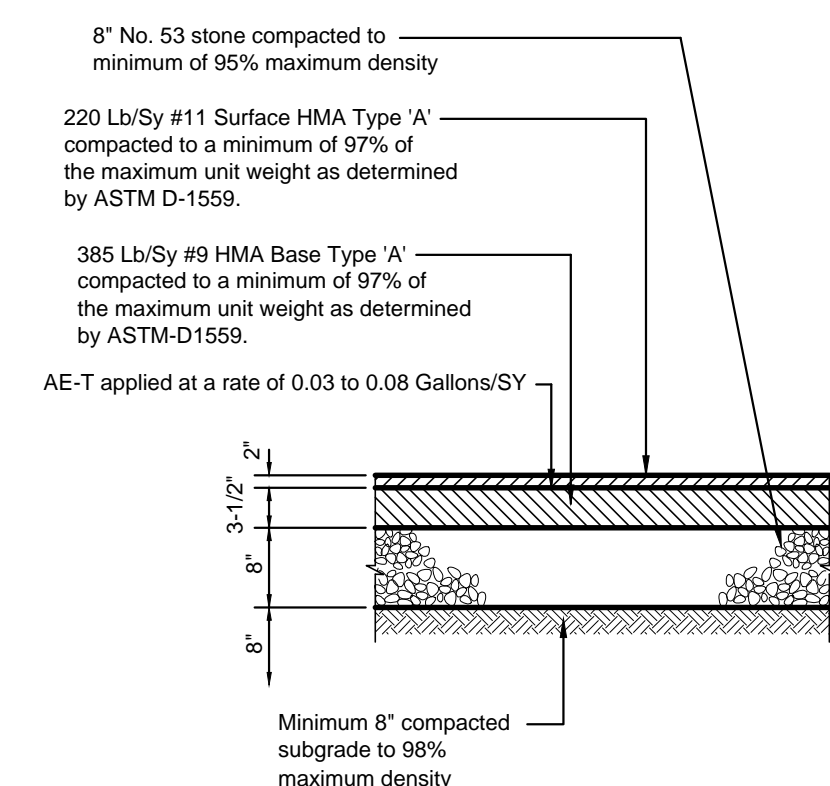
Standing Curb Detail

Scale: 1"=1'-0"



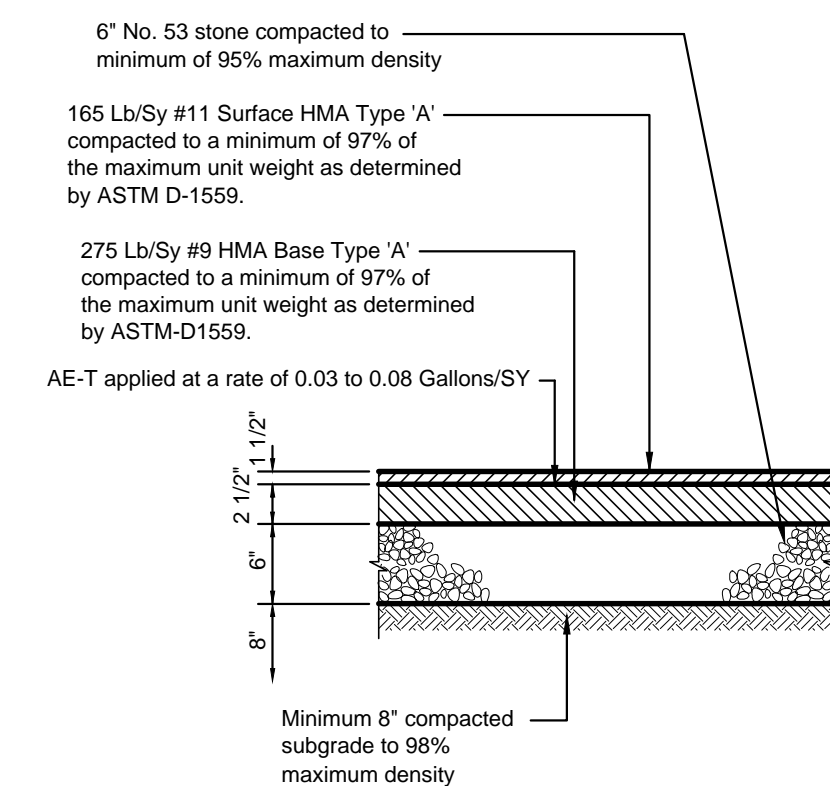
Typical Bollard Detail

No Scale



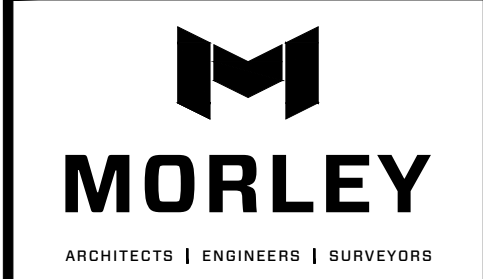
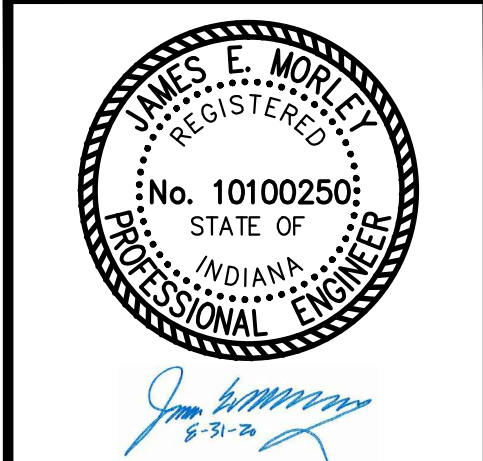
Heavy Duty Asphalt Pavement

No Scale



Standard Asphalt Pavement

No Scale



All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

4803 Rossford Ln., Newburgh, IN 47030
812-464-9555 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil Site Details

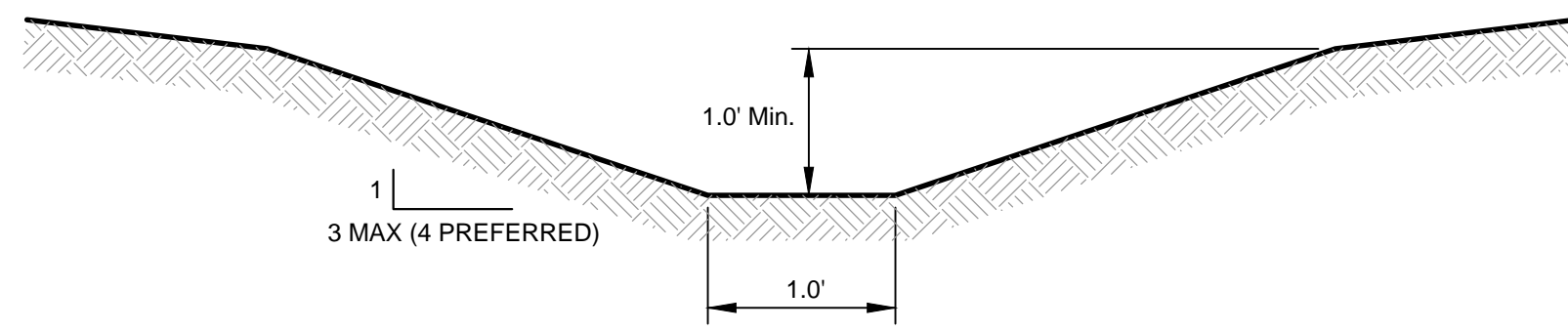
No.	By	Date

Revisions

Scale: As Noted	
Designed By: JEM	Job Number: 11060.1.002-A
Drawn By: CRS	Date: 8.31.2020
Filename: 11060 Civil Base	
Sheet Number:	

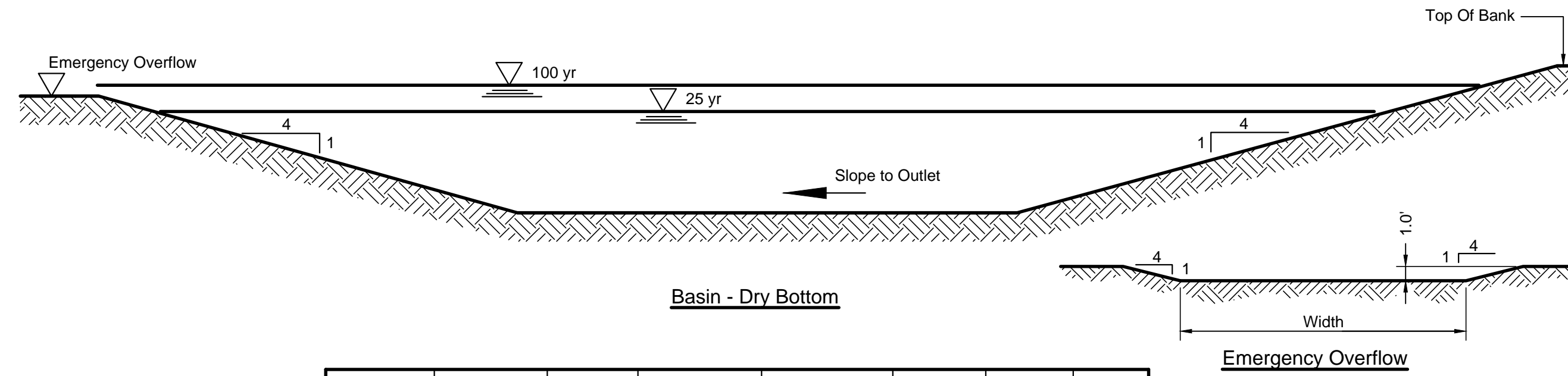
C501

- Notes:**
- Channels with grades from 0.80% to 1% slopes shall be seeded and mulched
 - The bottoms of seeded, grass-lined channels with grades from 1% to 2% shall have erosion control blankets properly installed.
 - Channels with grades greater than 2% and up to 6% shall have bottoms lined in staked sod.
 - All channels with grades greater than 6% shall have bottoms lined with 6" rip-rap.
 - Side banks of grass-lined channels with a grade of 2% or greater shall be protected by erosion control blankets installed coincidental with seeding, and in accordance with manufacturer's recommendations.



Typical Temporary Swale Cross Section

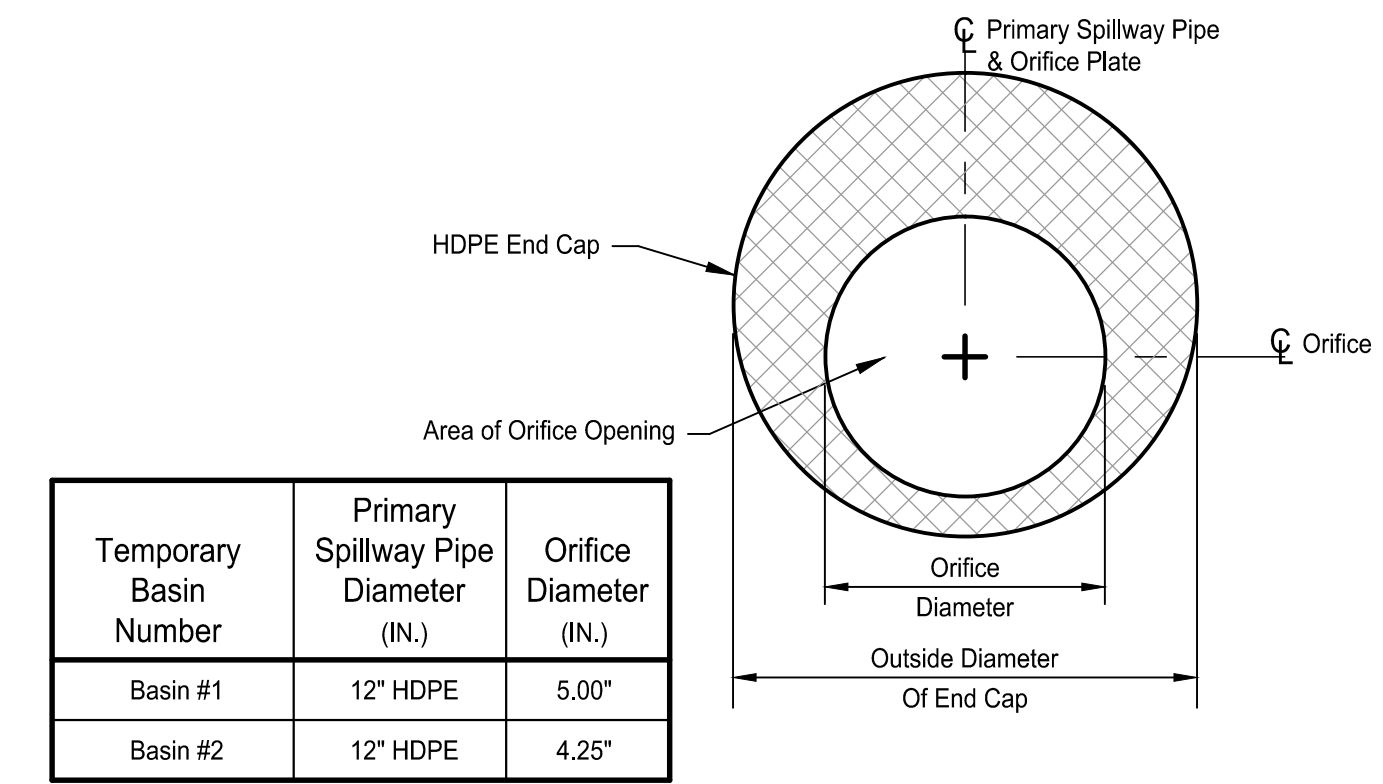
No Scale



Temporary Basin Number	Top of Bank Elevation	Outlet Elevation	Peak Storage Volume (cuft)	25-YR Storage Volume (cuft)	Orifice Diameter (inch)	E.O. Elevation	E.O. Width (feet)
Basin #1	455.00	451.75	2,073	2,562	5.00"	454.00	10'
Basin #2	456.25	452.92	2,009	2,271	4.25"	455.25	10'

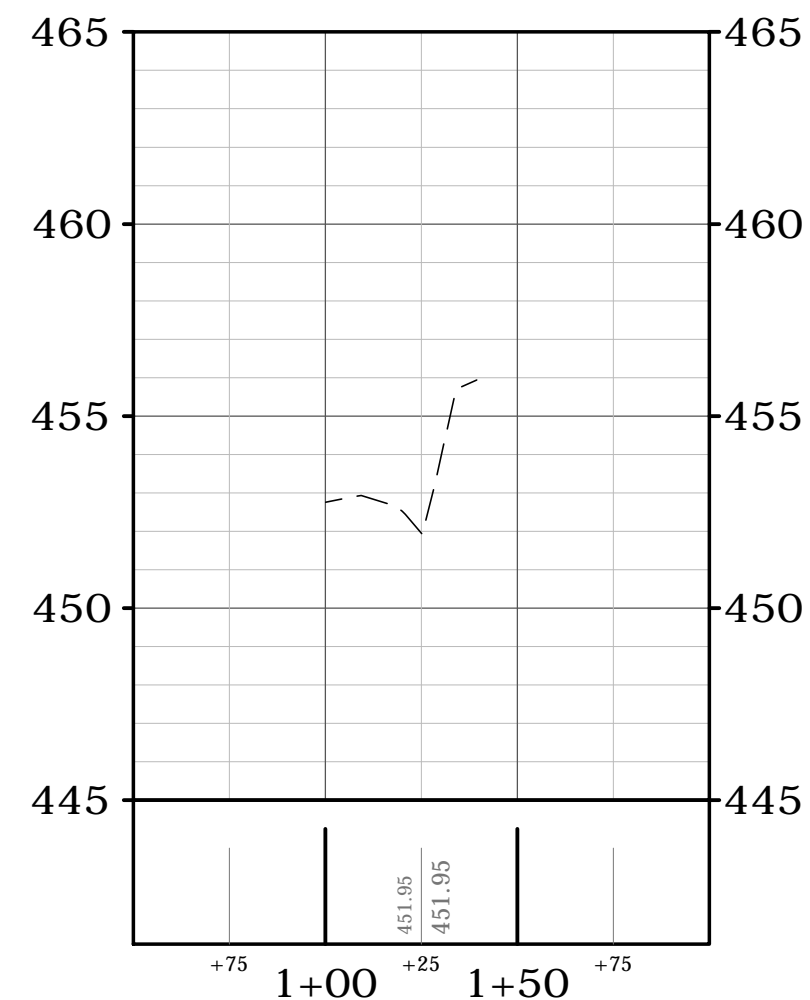
Typical Temporary Detention Basin Section

No Scale



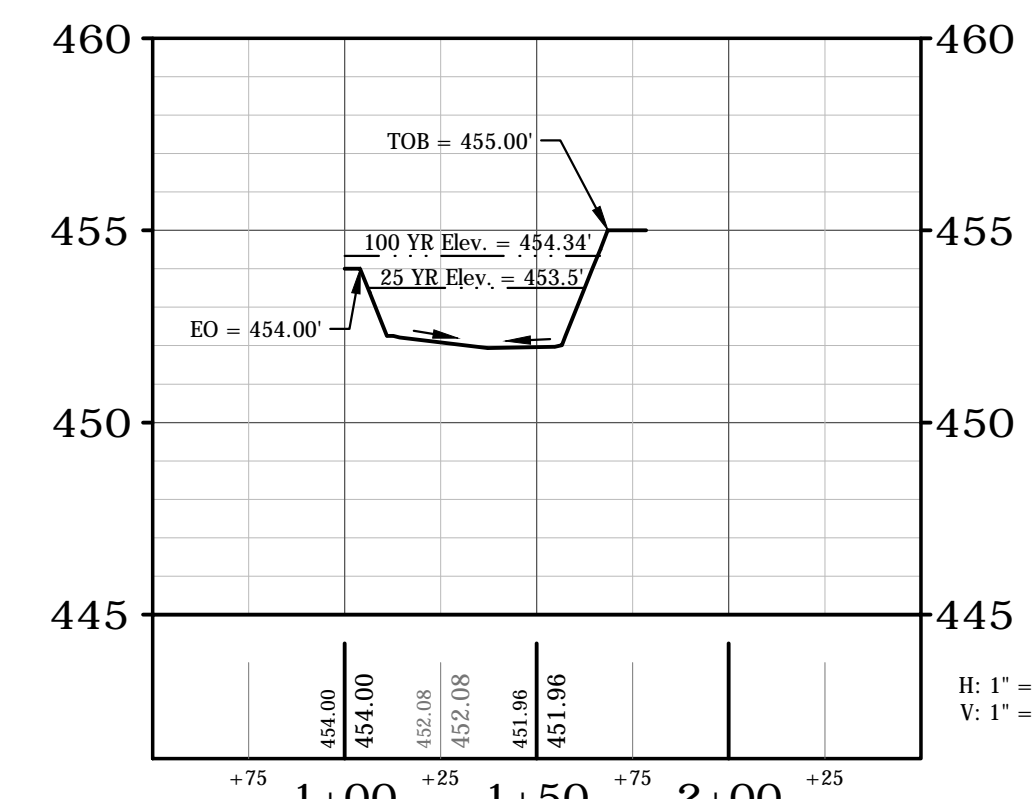
Temporary Orifice Structure

No Scale

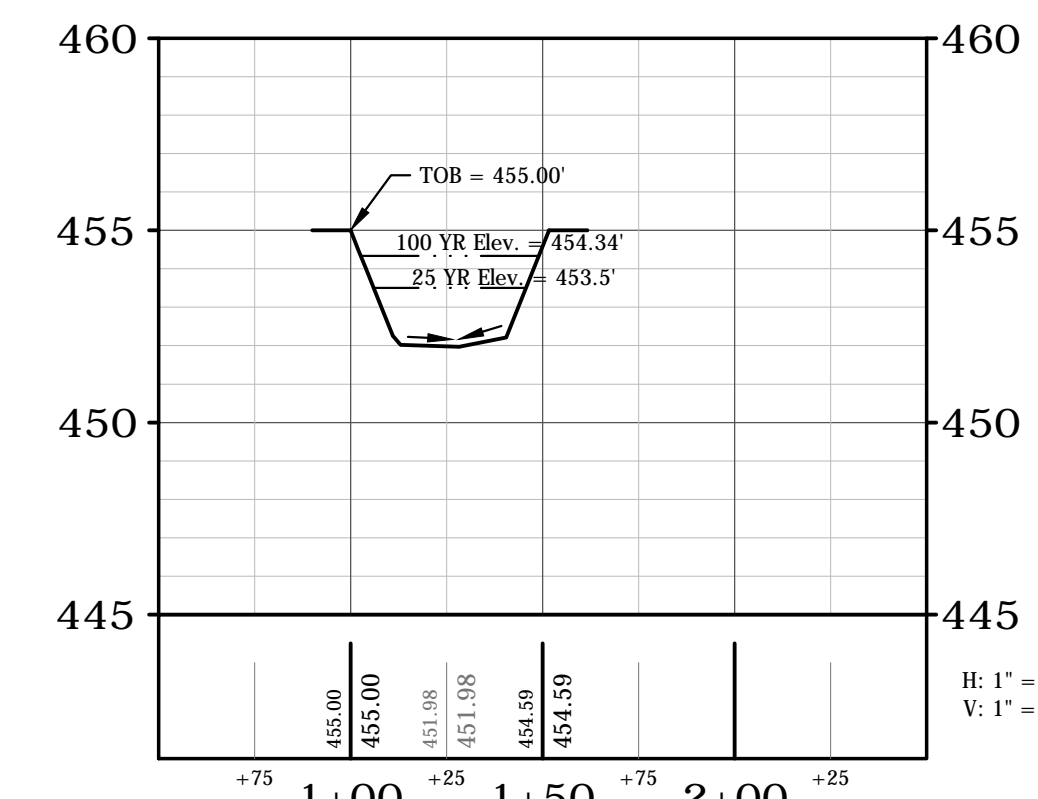


Existing Roadside Ditch Cross Section East of Petersburg Road

Scale: 1" = 50'



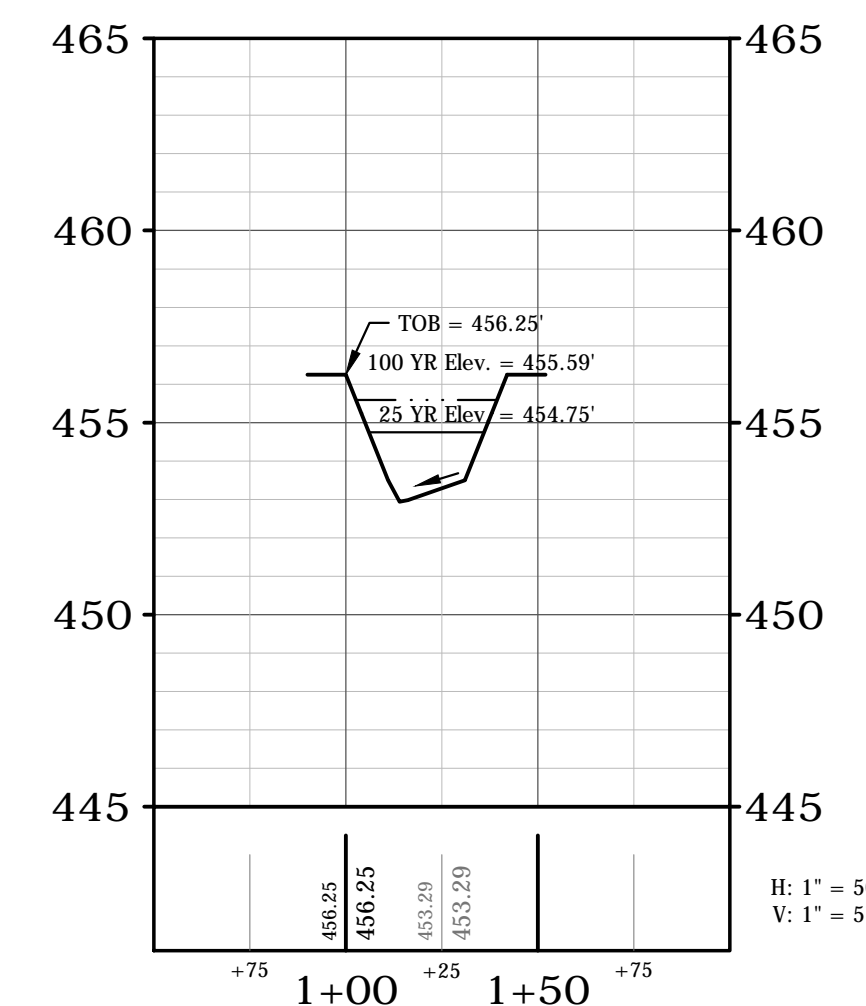
Section A-A



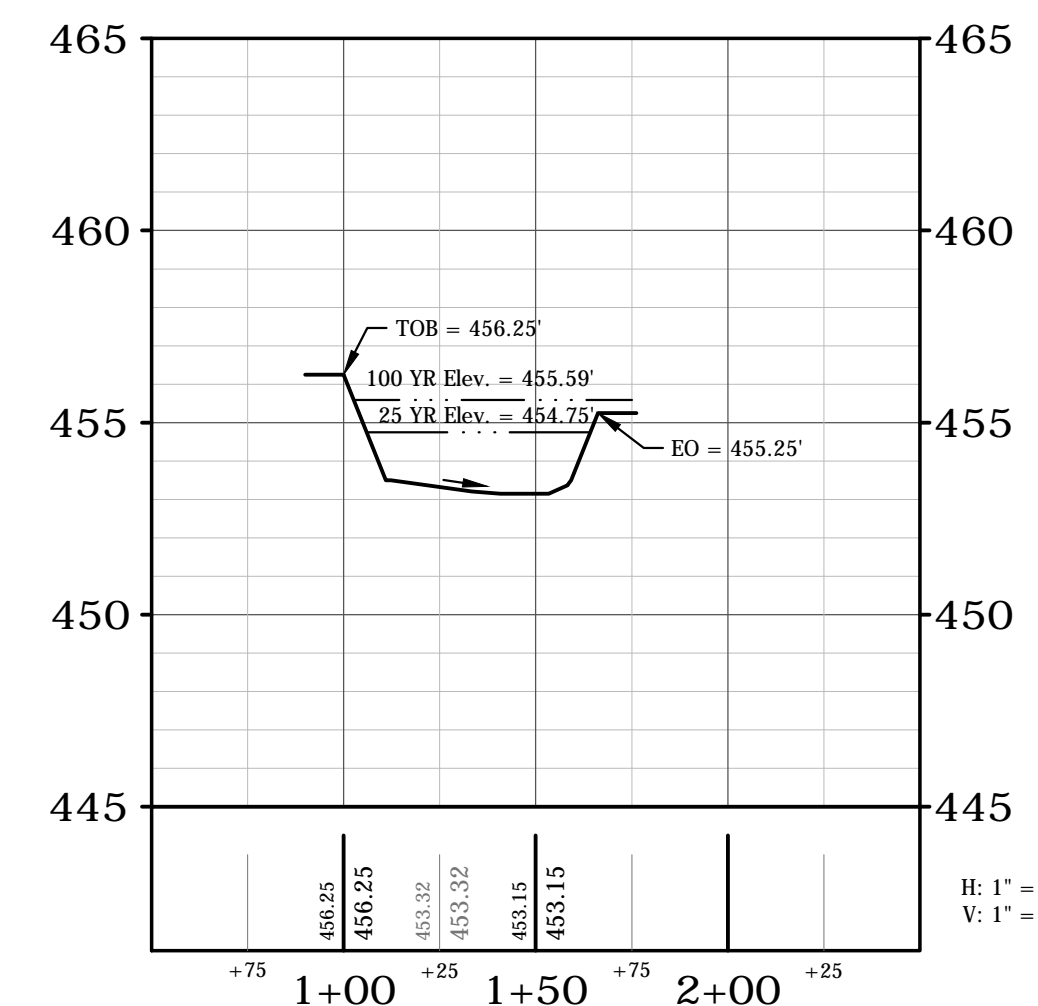
Section B-B

Temporary Detention Basin #1 Sections

Scale: 1" = 50'



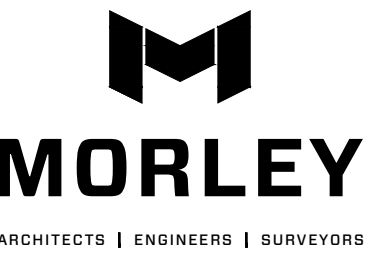
Section A-A



Section B-B

Temporary Detention Basin #2 Sections

Scale: 1" = 50'



All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

4800 Rosebud Ln., Newburgh, IN 47030
812-464-9556 Phone 812-464-2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil
Drainage Details
Continued

No. By Date

Revisions

Scale: As Noted

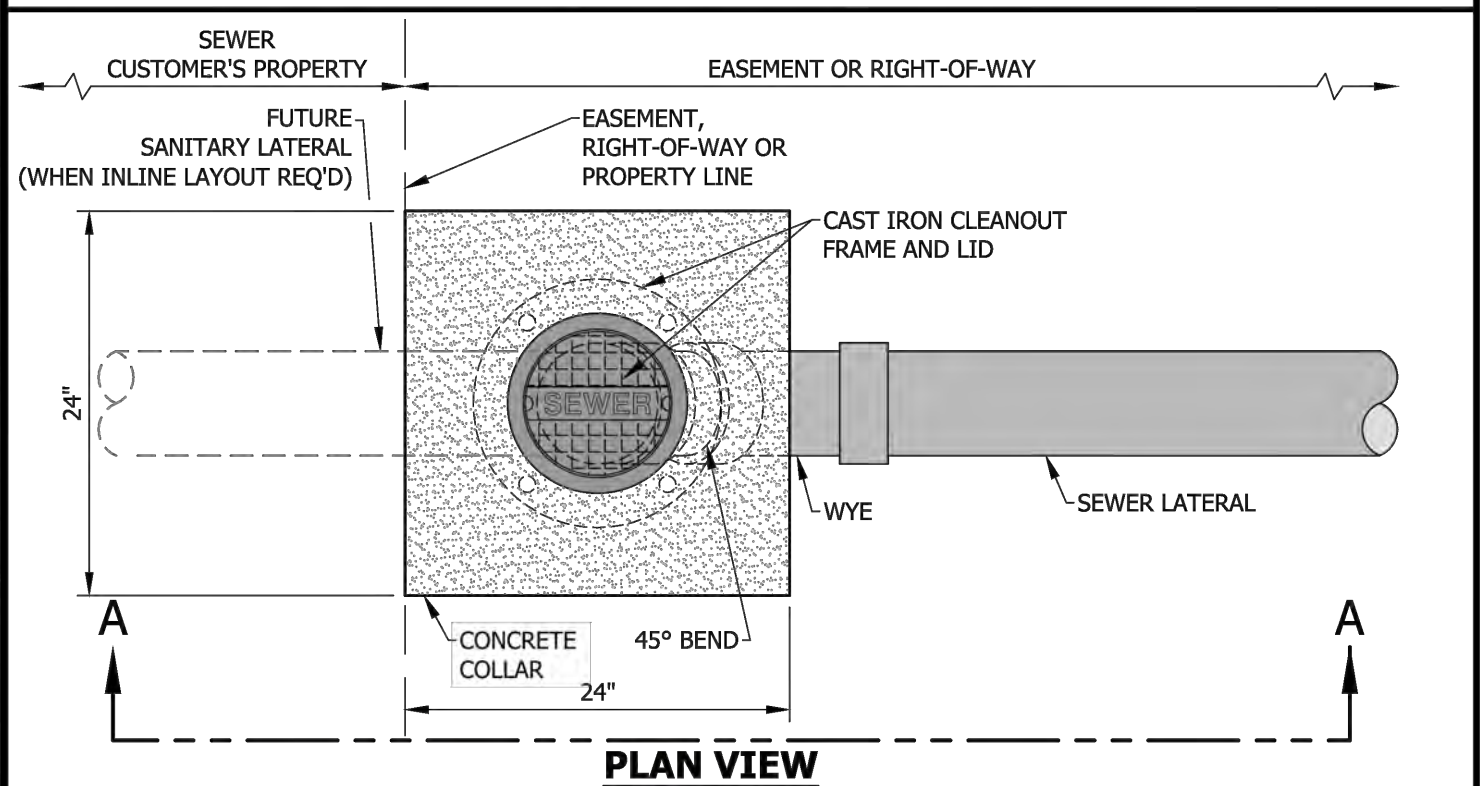
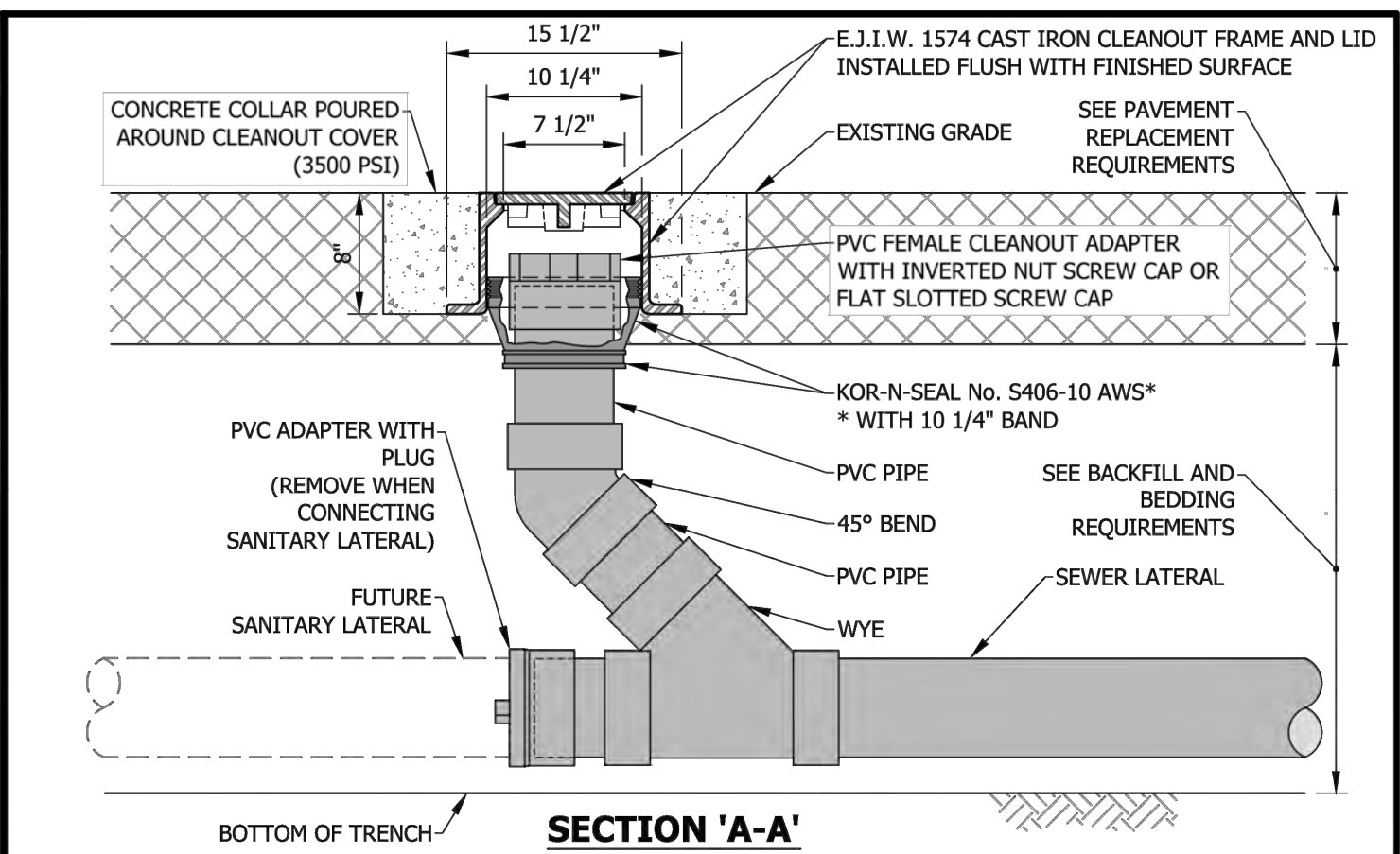
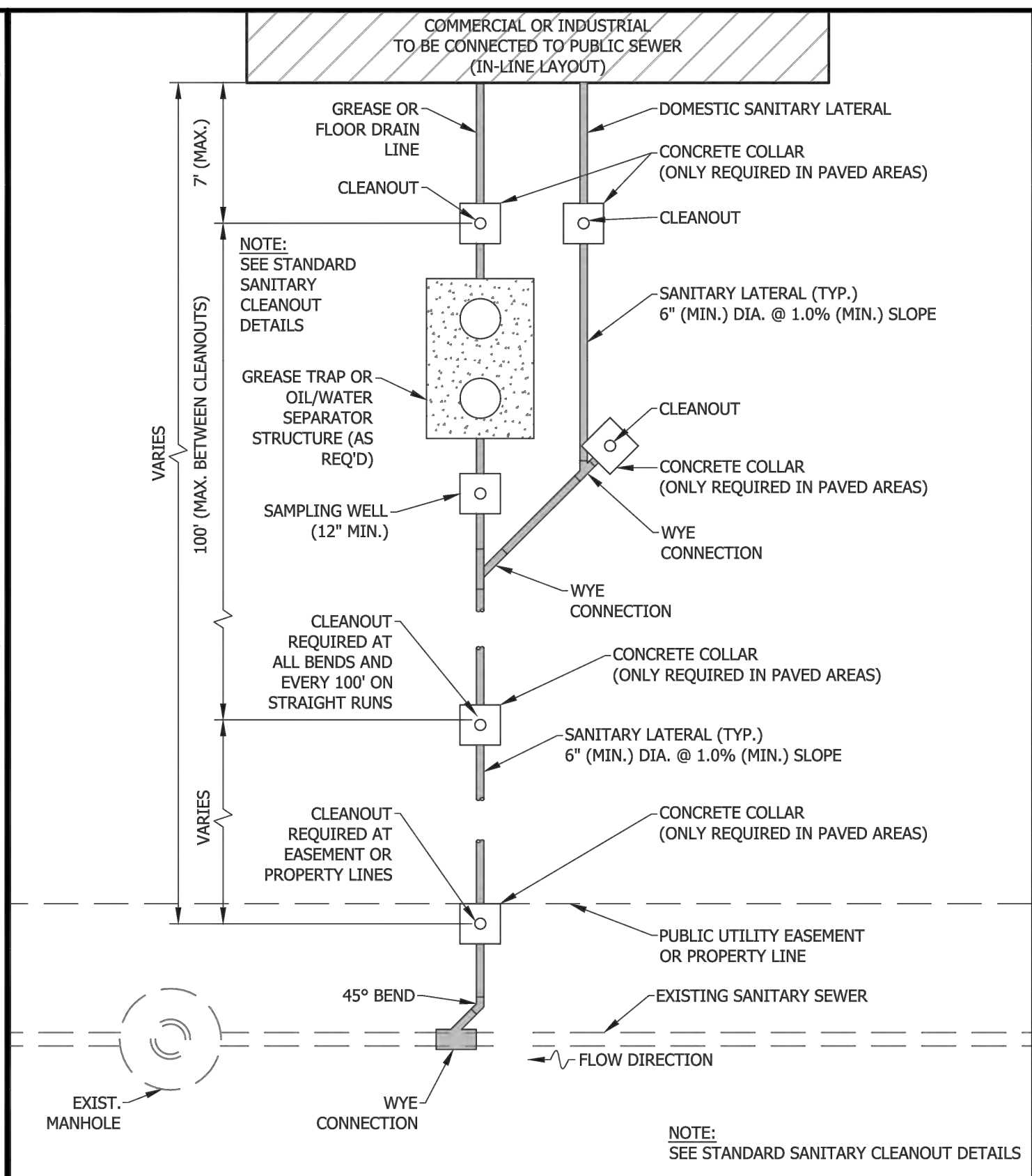
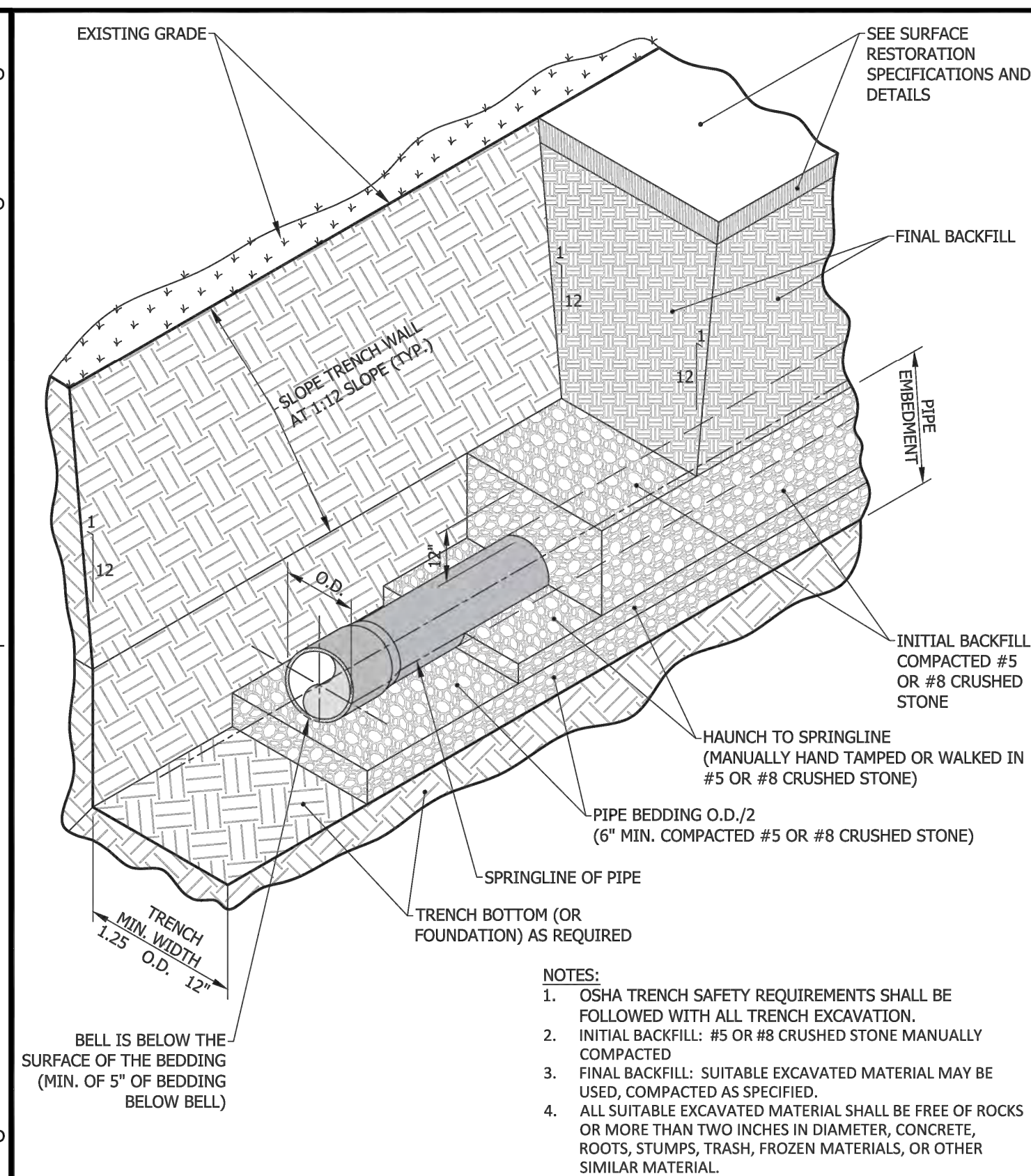
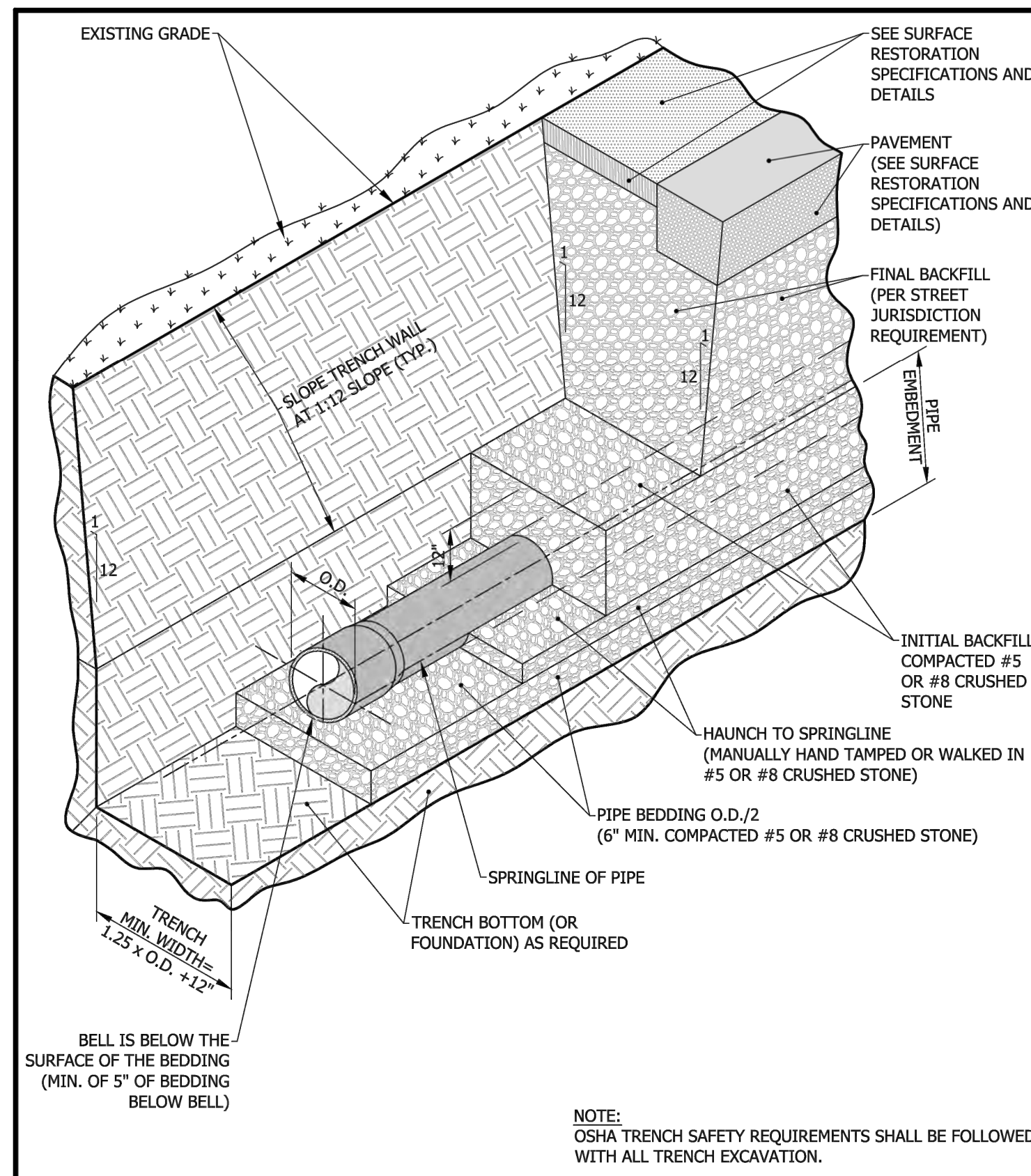
Designed By: JEM Job Number: 11060.1.002-A

Drawn By: CRS Date: 10.23.2020

Filename: 11060 Civil Base

Sheet Number:

C503-B



Evansville
WATER AND SEWER UTILITY

NON-RIGID SANITARY SEWER PIPE BEDDING AND BACKFILL WITHIN 5' OF, OR UNDER PAVEMENT

Approved: 11/10/15 Adopted: 11/10/15 Figure **WW-15**
 Approved By: Michael D. Labitzke, P.E. Scale: N.T.S.

Evansville
WATER AND SEWER UTILITY

NON-RIGID SANITARY SEWER PIPE BEDDING AND BACKFILL MORE THAN 5' FROM PAVEMENT

Approved: 11/10/15 Adopted: 11/10/15 Figure **WW-16**
 Approved By: Michael D. Labitzke, P.E. Scale: N.T.S.

Evansville
WATER AND SEWER UTILITY

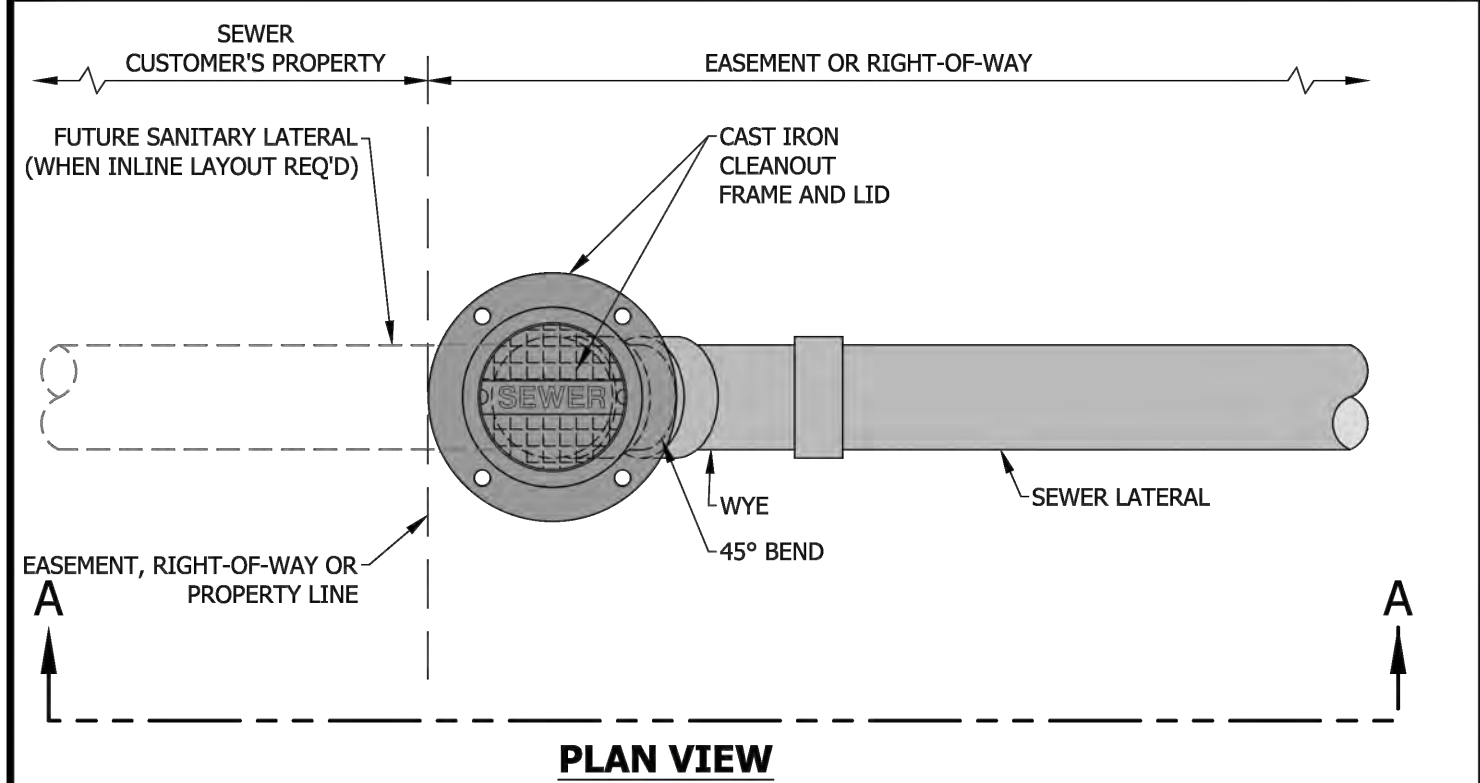
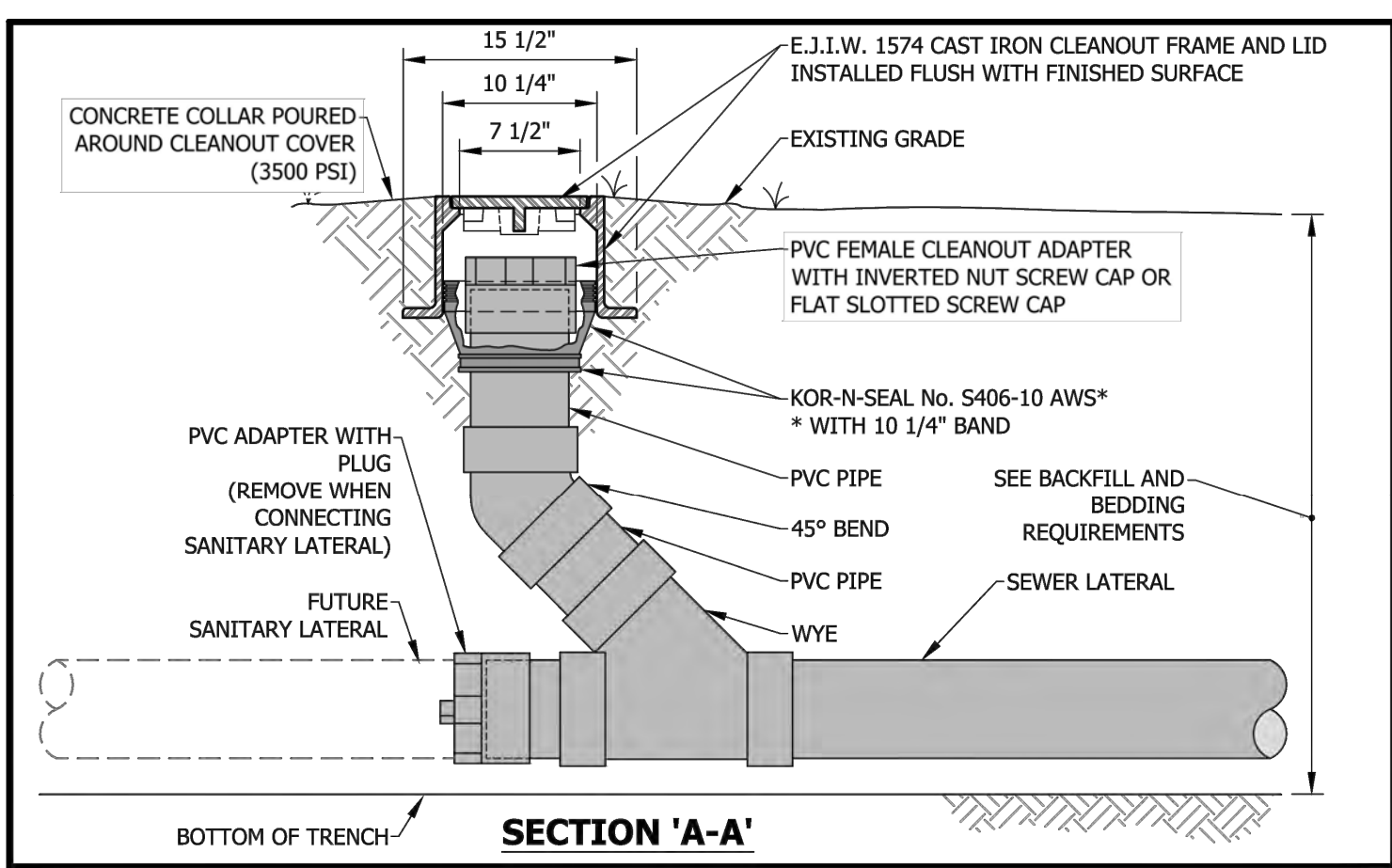
LATERAL SEWER CONNECTION LAYOUT (COMMERCIAL)

Approved: 02/28/17 Adopted: 02/28/17 Figure **WW-18**
 Approved By: Michael D. Labitzke, P.E. Scale: N.T.S.

Evansville
WATER AND SEWER UTILITY

STANDARD SANITARY CLEANOUT IN PAVED AREAS

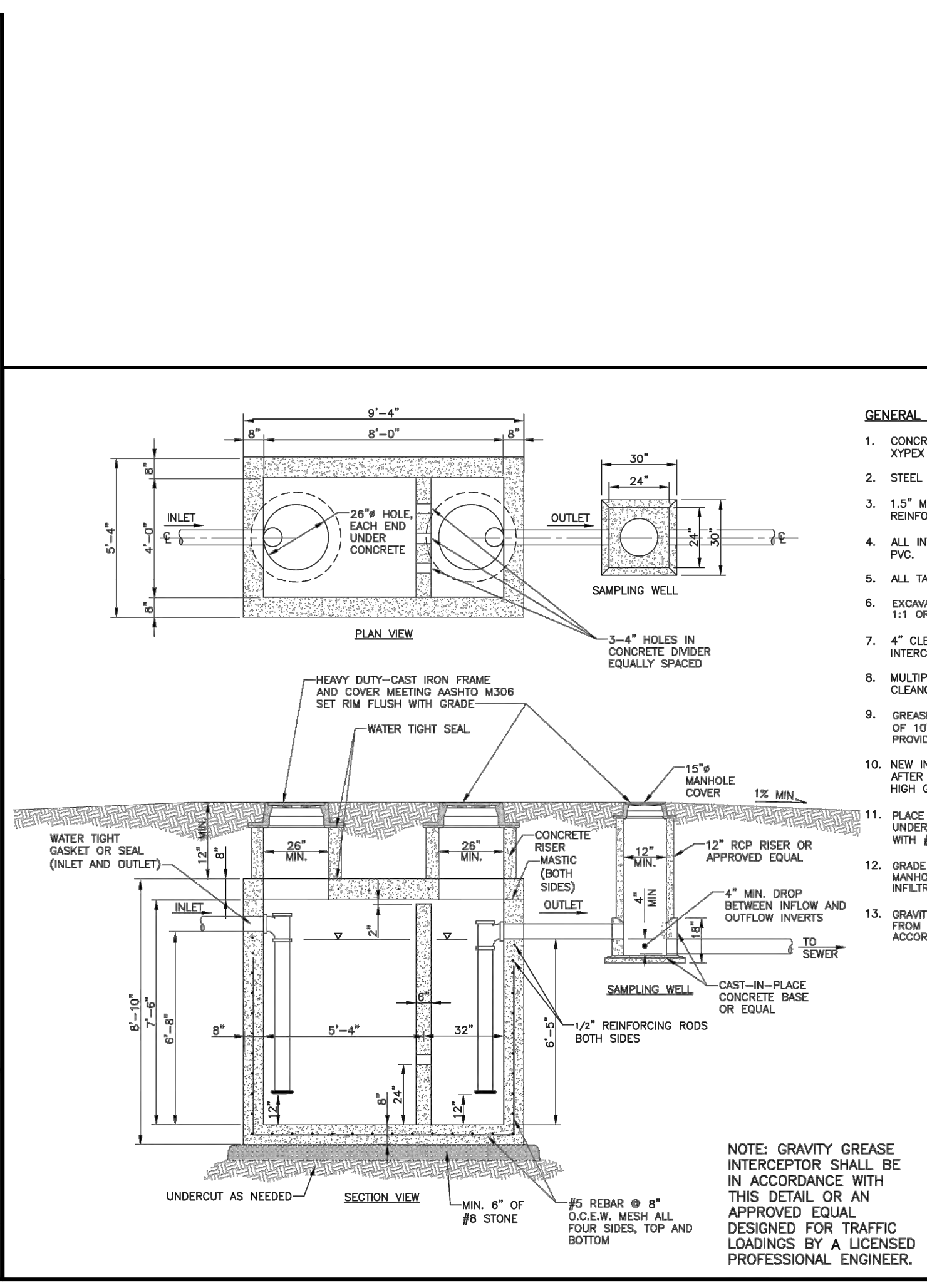
Approved: 11/10/15 Adopted: 11/10/15 Figure **WW-19**
 Approved By: Michael D. Labitzke, P.E. Scale: N.T.S.



Evansville
WATER AND SEWER UTILITY

STANDARD SANITARY CLEANOUT IN UN-PAVED AREAS

Approved: 11/10/15 Adopted: 11/10/15 Figure **WW-20**
 Approved By: Michael D. Labitzke, P.E. Scale: N.T.S.



Evansville
WATER AND SEWER UTILITY

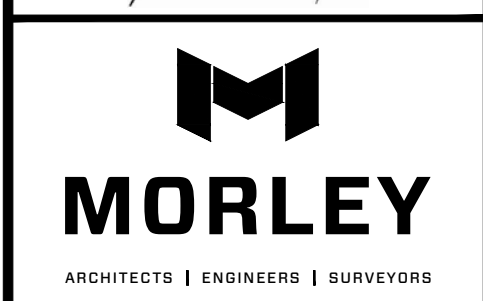
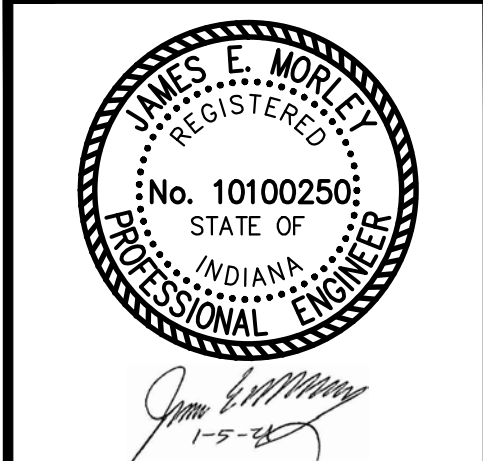
TRAFFIC RATED GRAVITY GREASE INTERCEPTOR (1,500 GALLON TYPICAL)

DRAWN BY: RMY CHECKED BY: TGB SHEET NO: 8-26-16 SCALE: 1/4\"/>

Evansville
WATER AND SEWER UTILITY

GENERAL NOTES

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH 5000psi. XYPEX ADDITIVE OR APPROVED EQUAL REQUIRED.
2. STEEL REINFORCEMENT: ASTM A-615, GRADE 60.
3. 1.5\"/>



All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

4800 Rossford Ln., Newburgh, IN 47030
 812-464-9555 Phone 812-464-2514 Fax
 morleycorp.com

Convenience Store
 11901 Petersburg Road
 Evansville, IN 47725

Civil
 Utility Details

Revisions	
No.	Date

EWSU # S140972 . APPROVED PLAN SET. . SANITARY CONNECTION
 1-11-2021 Page 2 of 2

C504

Inlet Filter Specifications:

Item #	Dimensions	Pieces per Carton	Pieces Per Pallet
IF1527X30C	1.5' x 27' x 30"	10 pads	120 pads
IF1527X21FB	1.5' x 27' x 21"	1 roll	12 rolls
IF1527X75FB	1.5' x 27' x 75"	N/A	3 rolls

Other pad and roll sizes are available upon request. Cartons sized to ship by UPS.

Inlet Filter Installation Instructions:

- Remove sediment, debris, ice and snow from the inlet grate surface and surrounding area.
- Verify fit by placing filter over inlet grate to ensure that Inlet Filter extends at least one inch beyond the front and both curb ends. The overlap allows water flow and starts filtering sediment and debris before water drops into the inlet.
- Position the mat. Place Inlet Filter on grate with the net side down, flush to the back edge and extending beyond the grate opening on the front and both sides. The zip ties attach Inlet Filter to the inlet grate cover WITHOUT LIFTING THE GRATE COVER.
- Insert zip ties. Lift Inlet Filter slightly to enable you to see the first grate bar from the edge of the grate cover. Push the zip tie down through the Inlet Filter and loop under the grate bar. Insert the pointed end of the zip tie about 2" away from the first zip tie penetration and push back up through the filter. Push the pointed end of the zip tie into the receiving end just enough to hold ends loosely. LEAVE ZIP TIES LOOSE UNTIL ALL TIES ARE LOOKED THROUGH THE MATS AROUND THE GRATES. Repeat Step 4 until all zip ties are installed loosely.
- Tighten zip ties. After attaching all of the zip ties, re-position Inlet Filter to completely cover and overlap the grate. Pull free end of zip-ties hand tight to anchor Inlet Filter to the grate. Cut off free end of zip ties to leave a 1" tail.

Inlet Filter Maintenance Instructions:

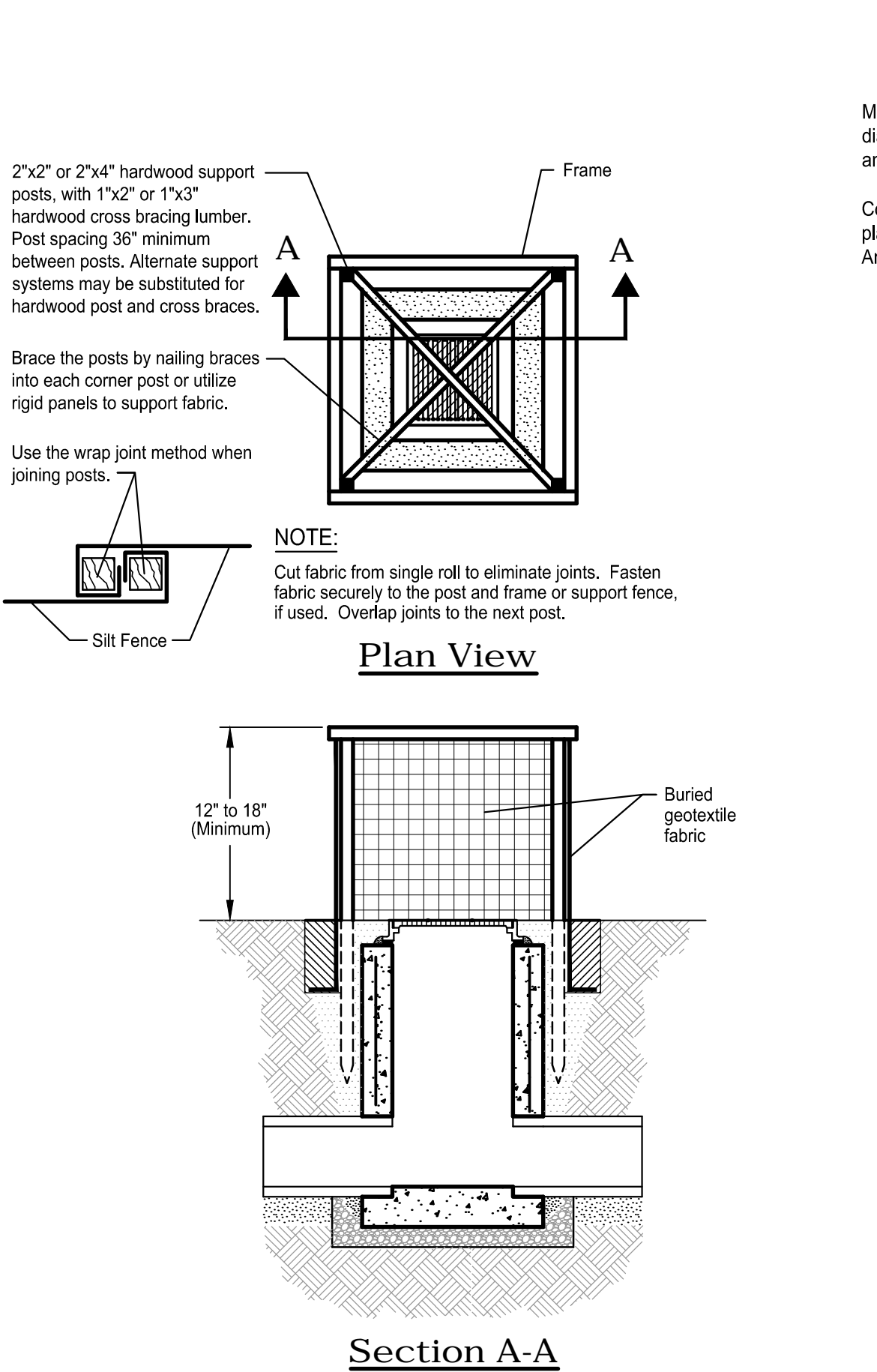
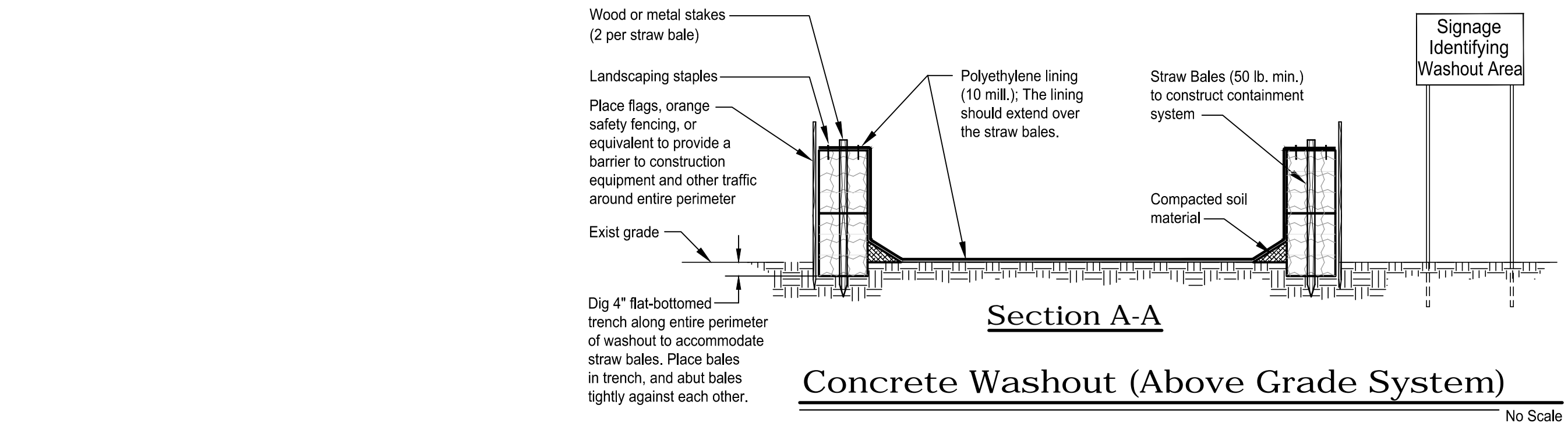
Inlet Filter will collect a lot of sediment. Clean Inlet Filter while mounted on the grate, even if ponded water surrounds the inlet. This unique feature ensures all water entering the grate is filtered. Sweep sides and top of Inlet Filter to remove sediment and debris after each rain event.

- Remove sediment from the sides of the filter by sweeping away from Inlet Filter.
- Remove sediment from the top of the filter by sweeping off of Inlet Filter.

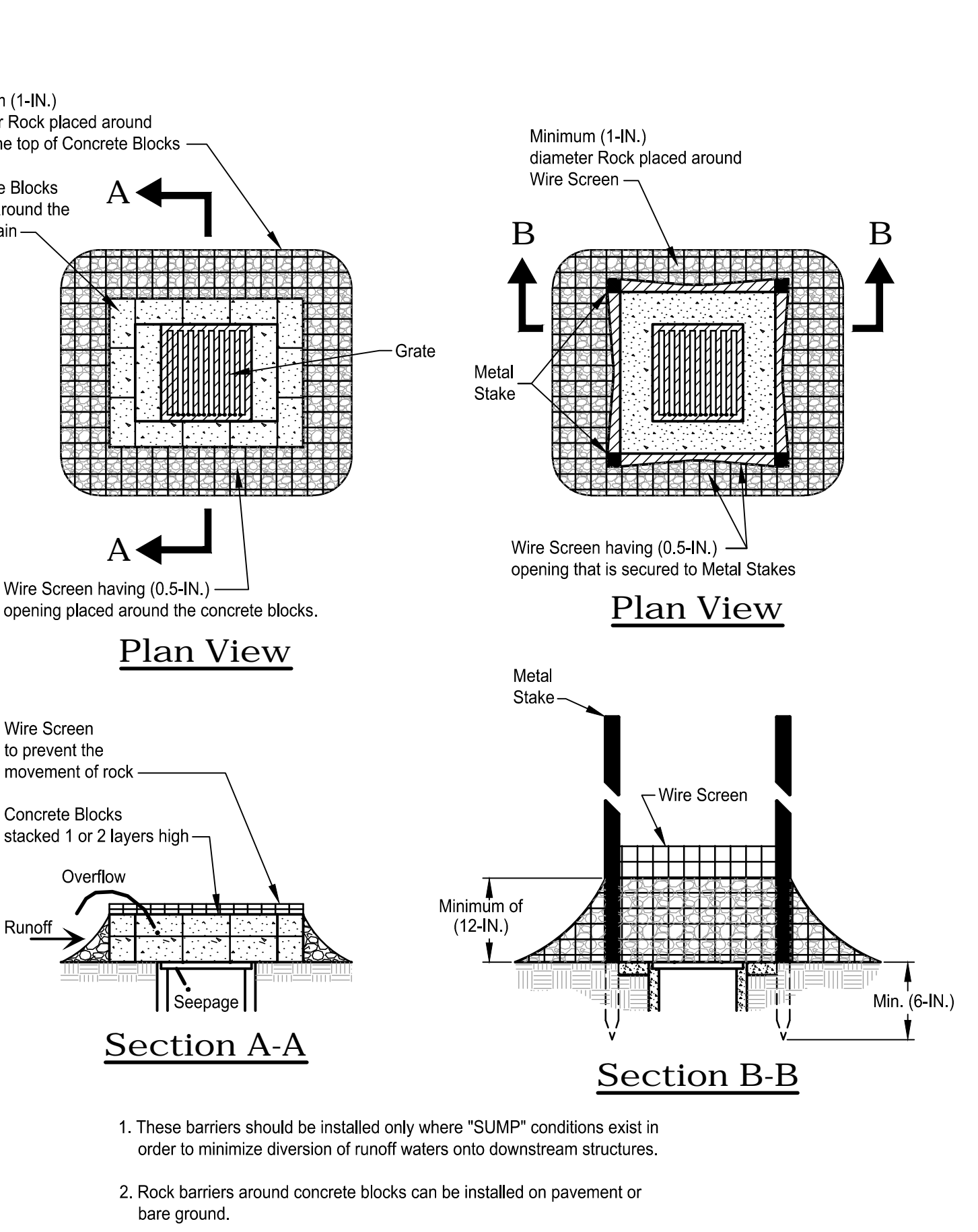
Inlet Filter is prepared for the next rain event.

Blockson & Co.
P.O. Box 2007 Michigan City, IN 46361-8007
Toll free: (800) 745-1408 Fax: (219) 874-3752

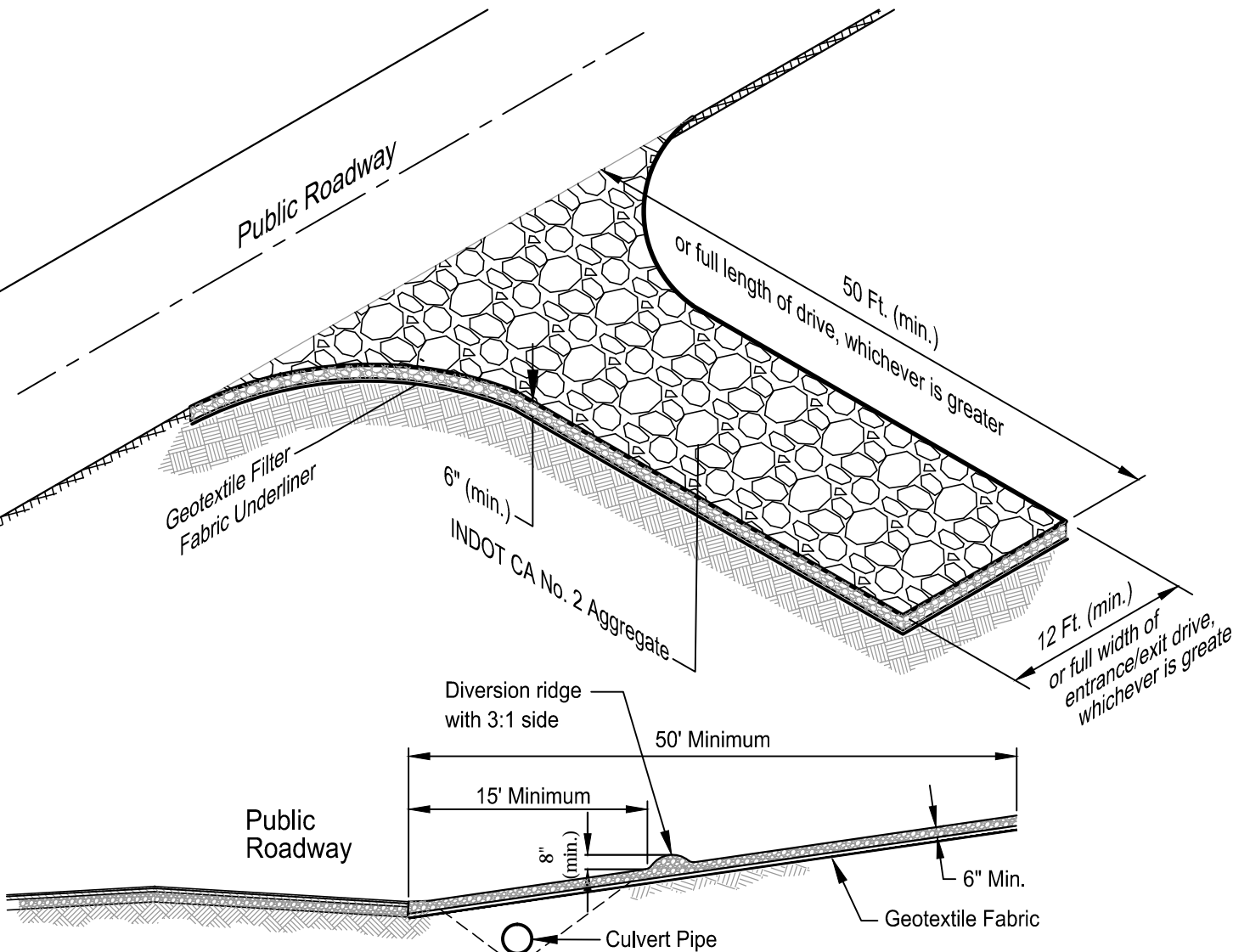
Coin Mat Detail and Installation Guide



Geotextile Fabric Drop Inlet Protection
No Scale

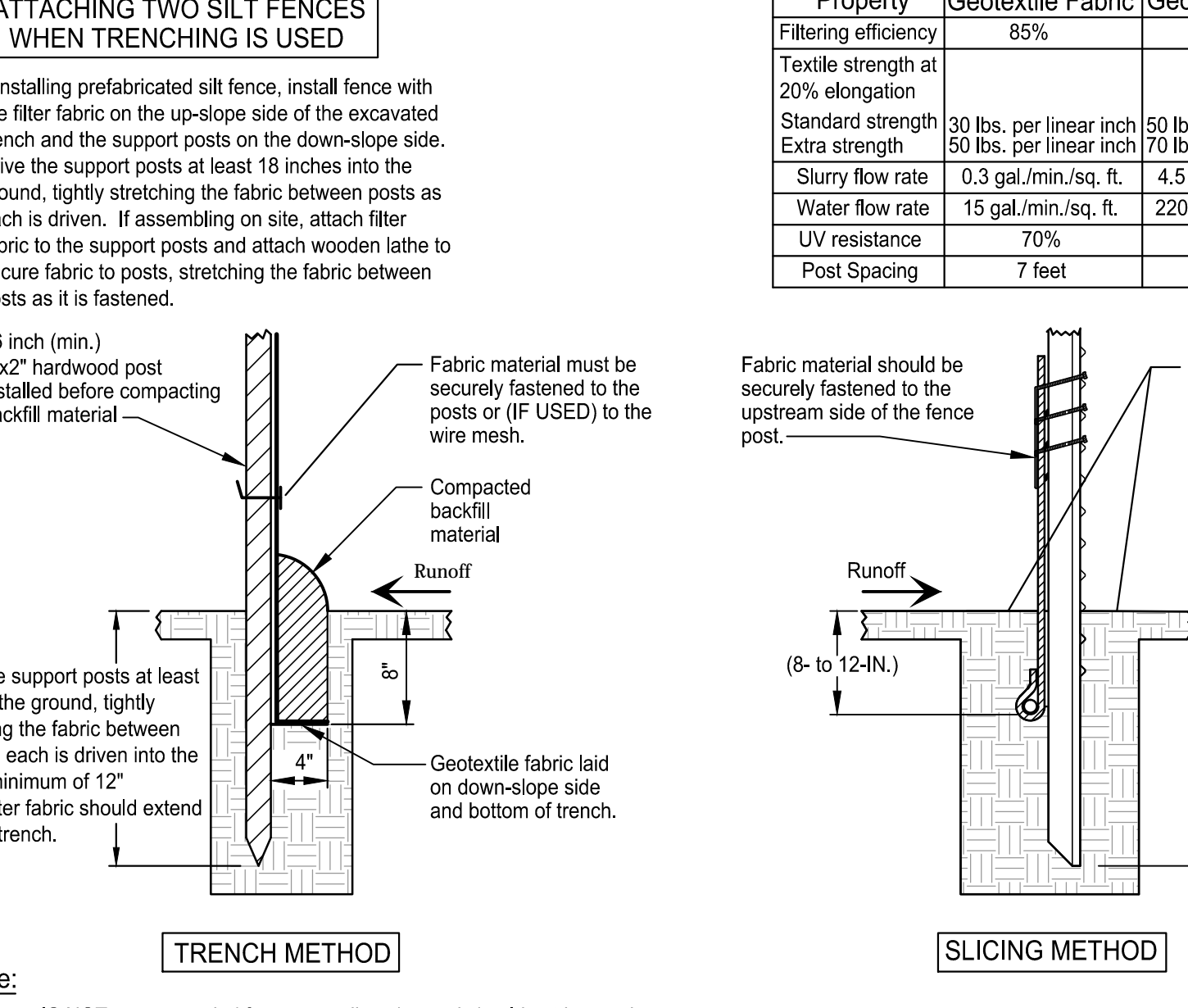
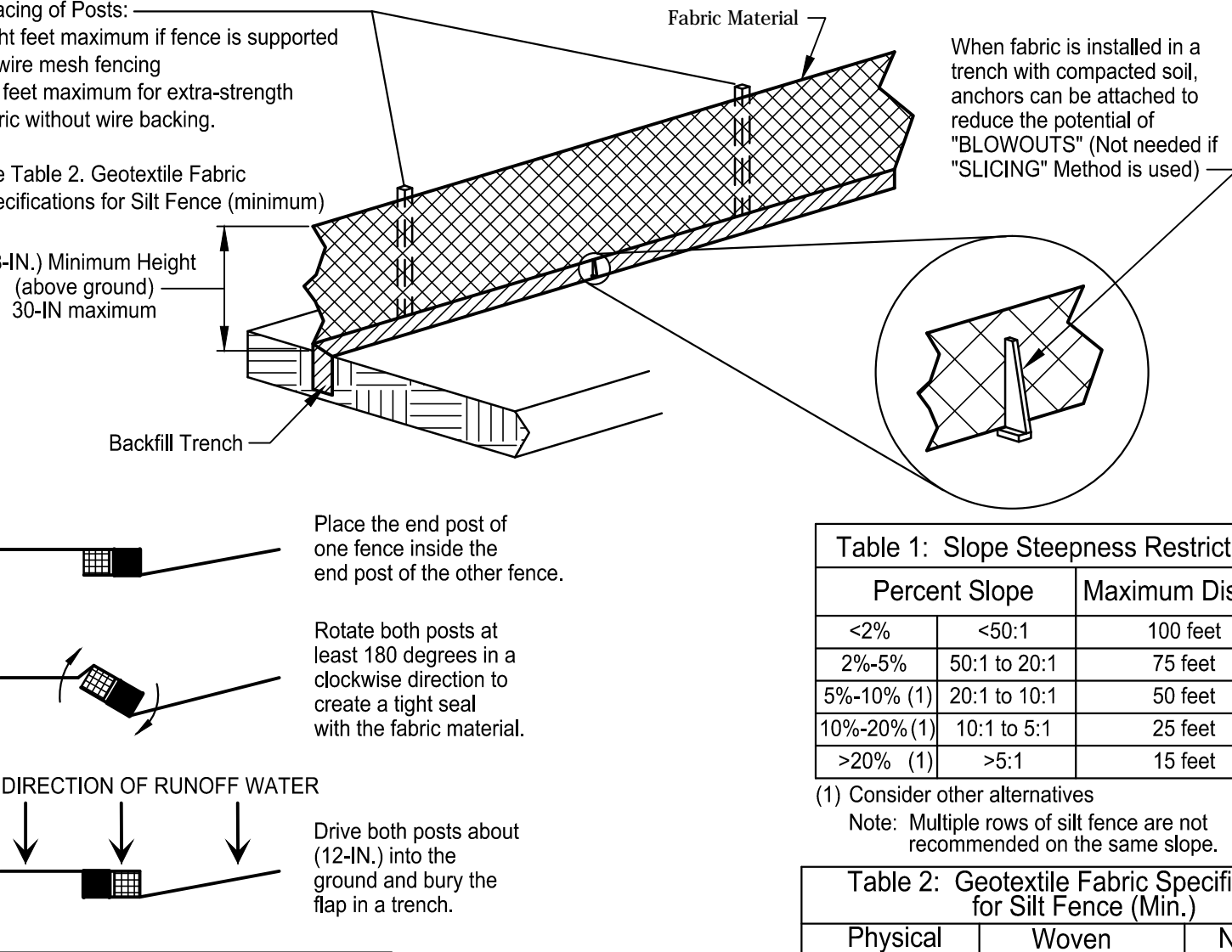
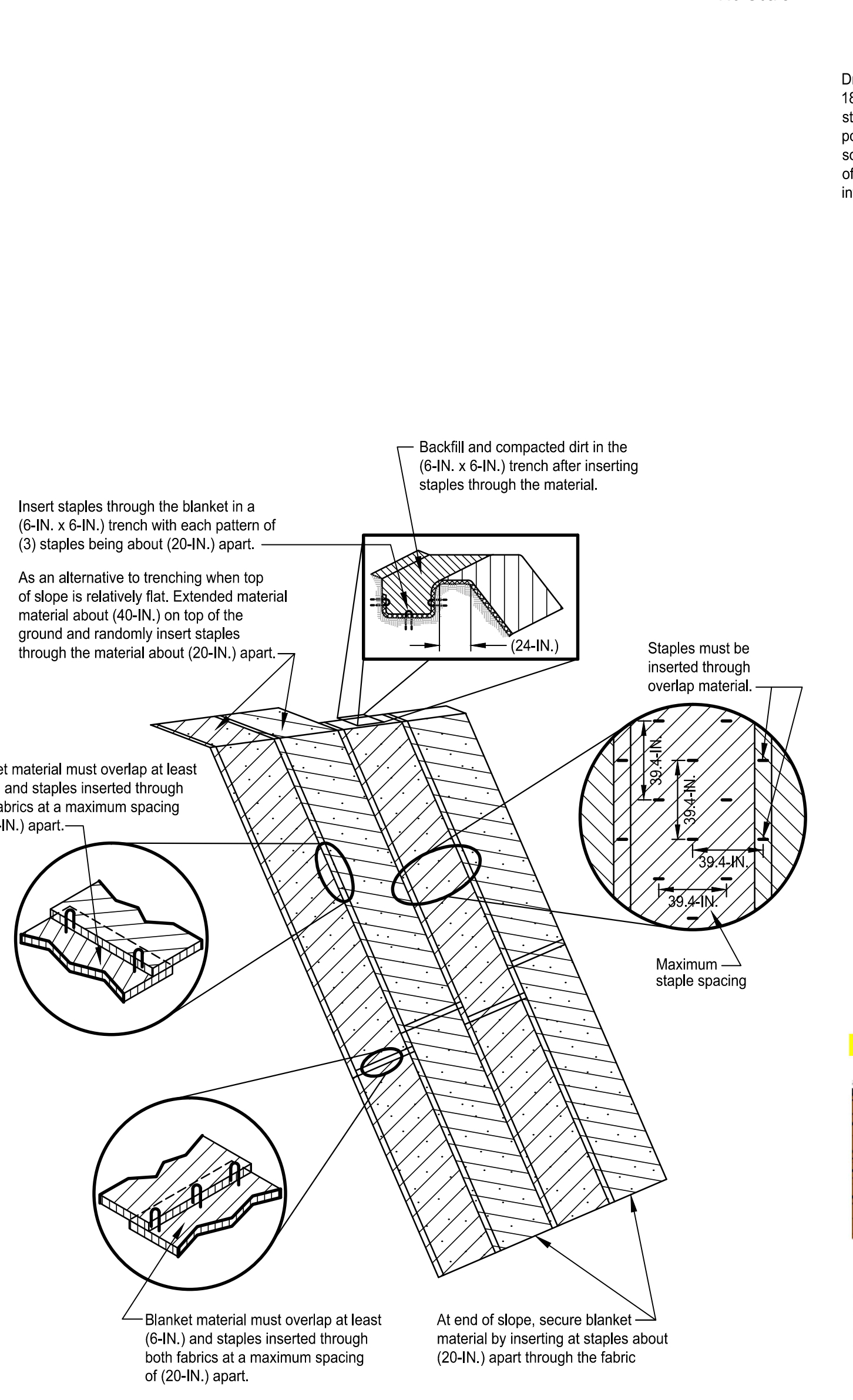


Rock Barrier Around Area Drain
No Scale



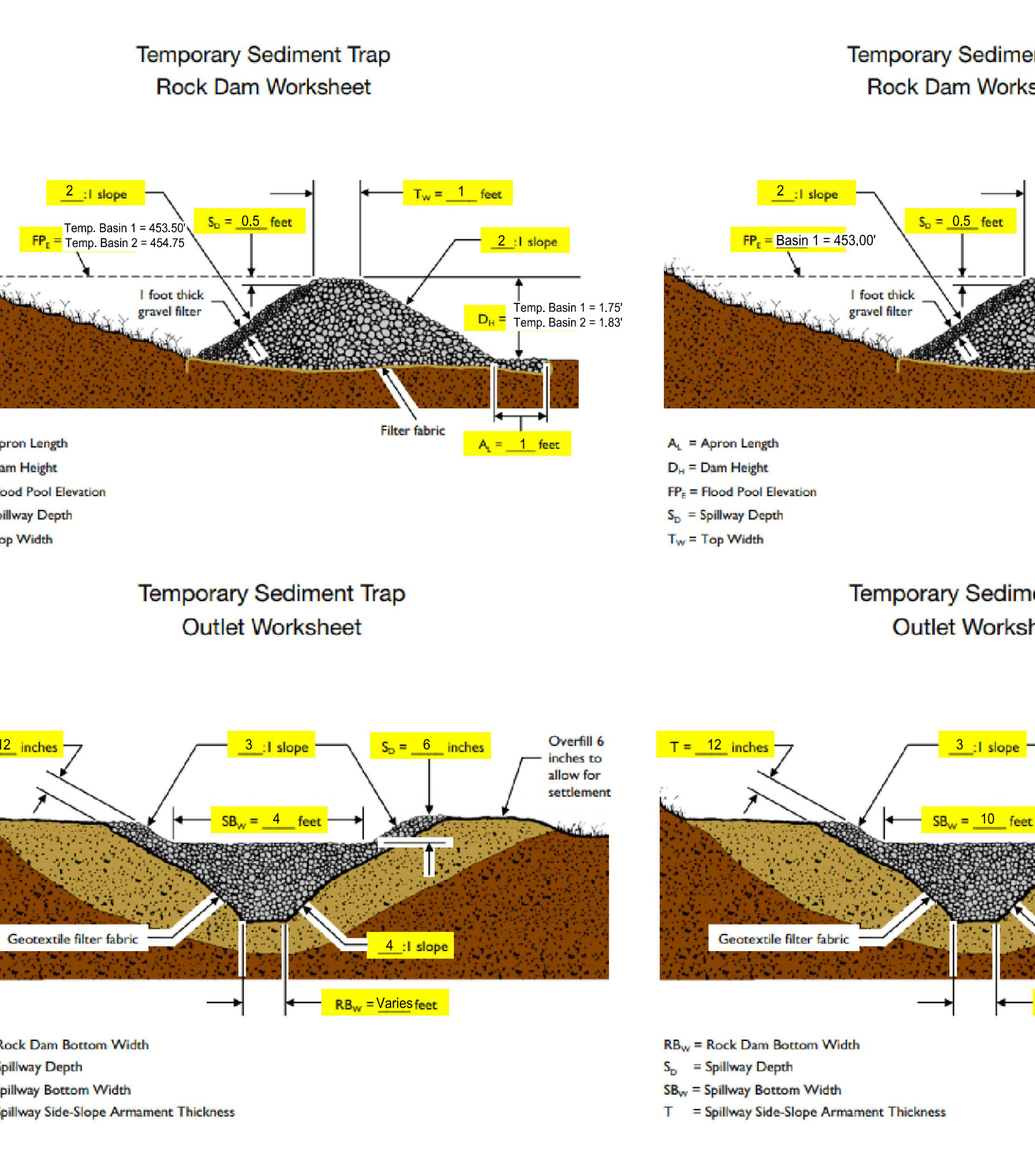
Temporary Construction Ingress/Egress Pad (Small sites-Less than Two Acres)

No Scale



Silt-Fence Installation

No Scale



Temporary Basin 1 & 2
No Scale

MORLEY
ARCHITECTS | ENGINEERS | SURVEYORS

All ideas, designs, calculations, and arrangements indicated or represented by this drawing are owned by and are the property of Morley and Associates, Inc. and were created as instruments of service for use on and in connection with the specified project. Morley and Associates retains all common law, statutory law and other rights, including copyrights. No drawings or electronic files shall be reused for any purpose other than the project. They shall not be disclosed to or be used by any other person or firm without the written prior consent of Morley and Associates, Inc. Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and Morley and Associates, Inc. must be notified of any variations from the dimensions and conditions shown by these drawings. If differences exist between electronic files and the signed and sealed hard copy drawings, the hard copy shall govern.

4803 Rossford Ln., Newburgh, IN 47030
812.464.9556 Phone 812.464.2514 Fax
morleycorp.com

Convenience Store
11901 Petersburg Road
Evansville, IN 47725

Civil
Storm Water Pollution Prevention Details

Revisions

No.	By	Date

Scale: As Noted

Designed By: JEM Job Number: 11060.1.002-A
Drawn By: CRS Date: 10.20.2020
Filename: 11060 Civil Base
Sheet Number: **C505**