McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA
FEBRUARY 22, 2019

KOVACS ENTERPRISES

2099 INDEPENDENCE DRIVE, GREENWOOD, IN 46143

WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
FAX: 317.291.5805

UTILITY CONTACTS

NATURAL GAS SERVICE

VECTREN ENERGY
DAVID SHERRY
16000 ALLISONVILLE ROAD
P.O. BOX 1700
NOBLESVILLE, INDIANA 46061
317.776.5585
DSHERRY@VECTREN.COM

ELECTRIC SERVICE

INDIANAPOLIS POWER AND LIGHT
JACKIE BULTMAN
1230 WEST MORRIS STREET
INDIANAPOLIS, INDIANA 46221
317.261.5267
JACKIE.BULTMAN@AES.COM

TELEPHONE SERVICE

NINESTAR CONNECT
GEORGE PLISINSKI, ENGINEER/SUPERVISOR
P.O. BOX 108
MAXWELL, INDIANA 46154
317.323.2078
GPLISINSKI@NINESTARCONNECT.COM

WATER SERVICE

CITIZENS WATER
MARK SHOCKLEY
1220 WATERWAY BOULEVARD
INDIANAPOLIS, INDIANA 46206
317.264.7718
MSHOCKLEY@CITIZENSENERGYGROUP.COM

SANITARY SEWER SERVICE

TOWN OF McCORDSVILLE PUBLIC WORKS
MARK WITSMAN, TOWN ENGINEER
6280 WEST 800 NORTH
McCORDSVILLE, INDIANA 46055
317.335.3604
MWITSMAN@McCORDSVILLE.ORG

DRAINAGE SERVICE

TOWN OF McCORDSVILLE PUBLIC WORKS
MARK WITSMAN, TOWN ENGINEER
6280 WEST 800 NORTH
McCORDSVILLE, INDIANA 46055
317.335.3604
MWITSMAN@McCORDSVILLE.ORG

ZONING

TOWN OF McCORDSVILLE PLANNING AND BUILDING DEPARTMENT
RYAN CRUM, DIRECTOR OF PLANNING AND BUILDING
6280 WEST 800 NORTH
McCORDSVILLE, INDIANA 46055
317.335.3604
RCRUM@McCORDSVILLE.ORG

BUILDING PERMITS

TOWN OF McCORDSVILLE PLANNING AND BUILDING DEPARTMENT
RYAN CRUM, DIRECTOR OF PLANNING AND BUILDING
6280 WEST 800 NORTH
McCORDSVILLE, INDIANA 46055
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RCRUM@McCORDSVILLE.ORG

FIRE SERVICE

McCORDSVILLE FIRE DEPARTMENT
7580 NORTH FORM STREET
McCORDSVILLE, INDIANA 46055

BUILDING PERMITS

TOWN OF McCORDSVILLE PLANNING AND BUILDING DEPARTMENT
RYAN CRUM, DIRECTOR OF PLANNING AND BUILDING
6280 WEST 800 NORTH
McCORDSVILLE, INDIANA 46055
317.335.3604
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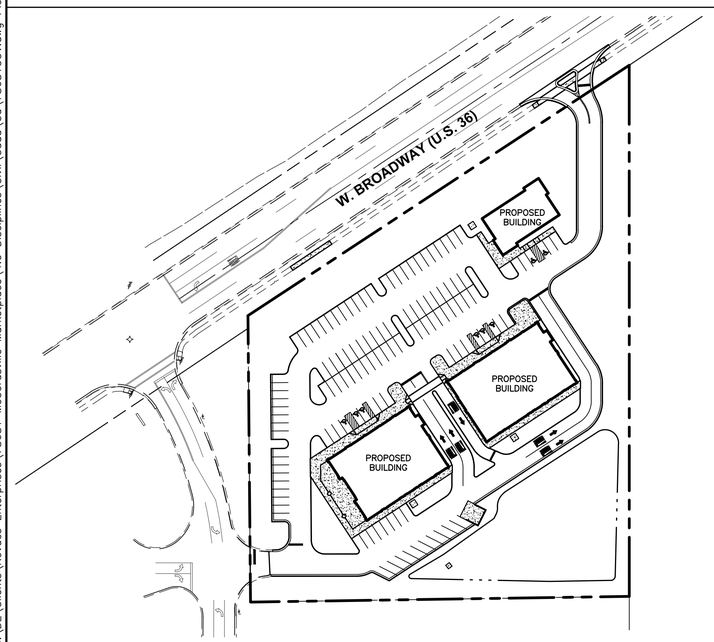
BENCHMARK:

THE BASIS OF ELEVATIONS HEREON IS NAVD 88.
REBAR FOUND – SEE PLANS FOR LOCATION,
AT THE INTERSECTION OF WEST BROADWAY AND CARROL ROAD.

ELEVATION = 853.10'

SITE PLAN



NORTH
NO SCALE

VICINITY MAP

NORTH
NO SCALE

SHEET INDEX

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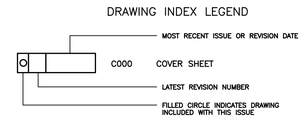
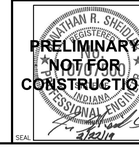
●	–	02/22/19	C700	LIGHTING PLAN

DRAWING INDEX LEGEND



No.	DATE	REVISION

PROJECT No.: 78681



PRELIMINARY NOT FOR CONSTRUCTION

C000

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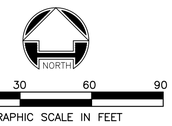

LEGEND

SYMBOL	DESCRIPTION
(A)	FULL DEPTH SAWCUT AND REMOVE EXISTING CURB AT NEAREST JOINT BEYOND REMOVAL LIMITS
(B)	GRUB & CLEAR TREES, SHRUBS, STUMPS, UNDERBRUSH AND WEEDS
(C)	FULL DEPTH SAWCUT AND REMOVE ASPHALT PAVEMENT
(D)	REMOVE EXISTING CONCRETE PAVEMENT
(E)	FULL DEPTH SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT/SIDEWALK AT NEAREST JOINT BEYOND REMOVAL LIMITS
	STORM CURB INLET
	STORM INLET
	STORM MANHOLE
	SANITARY MANHOLE
	CLEANOUT
	FIRE HYDRANT
	WATER VALVE
	TRAFFIC PULLBOX
	TRAFFIC SIGNAL
	LIGHT POLE
	POWER POLE
	TRAFFIC SIGNAL POLE
	GUY WIRE
	GAS UTILITY MARKER
R/W	FOUND RIGHT-OF-WAY MONUMENT
	BENCHMARK
	TREE/SHRUB LINE
SD	STORM SEWER
WTR	WATER
G	GAS
OE	OVERHEAD ELECTRIC
	CHAIN LINK FENCE

DEMOLITION NOTES

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE PRESENCE AND LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, CALL INDIANA UNDERGROUND CABLE LOCATION 1-800-382-5544.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF UTILITIES ON SITE OR CROSSING THE SITE TO SERVICE ADJACENT PROPERTIES. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, DURING OCCUPIED HOURS, EXCEPT WHEN PERMITTED BY OTHERS.
3. DEMOLISH AND COMPLETELY REMOVE FROM SITE, EXISTING UNDERGROUND UTILITIES INDICATED TO BE REMOVED. COORDINATE WITH UTILITY COMPANIES FOR SHUT-OFF OF SERVICES, IF LINES ARE ACTIVE.
4. ALL COSTS INCURRED IN COORDINATION OF ALL NEW UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
5. THE REMOVAL AND DEMOLITION OF EXISTING FACILITIES ARE THE CONTRACTOR'S RESPONSIBILITY.
6. EXISTING PAVEMENT AND CONCRETE PAVEMENTS ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER UNLESS OTHERWISE NOTED.
7. REMOVAL OF EXISTING CONCRETE AND ASPHALT PAVEMENT INDICATED ON PLANS SHALL INCLUDE ALL AGGREGATE BASE AND SUBGRADE MATERIALS. CONTRACTOR IS TO KEEP THE ADJACENT STREET ACTIVE AT ALL TIMES. SAWCUT ALL EXISTING PAVED AREAS. ALL CUTS SHALL BE CLEAN, NEAT AND TRUE TO LINE. REMOVE ALL NON-ORGANIC OR TOXIC MATTER THAT WOULD INTERFERE WITH PROPOSED PLANT MATERIAL.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR MUST USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
9. THE USE OF EXPLOSIVES IS PROHIBITED.
10. ALL EXCAVATION FOR UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES.
11. ROAD, ROAD SHOULDERS, ROAD PAVEMENT, PARKING PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, STREET AND PUBLIC SIGNS, ADVERTISEMENT SIGNS, ETC., DAMAGED DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED, REPLACED, OR PROTECTED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES TO EXISTING IMPROVEMENTS, EXCAVATION, AND/OR REMOVAL OF ANY AND ALL EXISTING IMPROVEMENTS SHALL BE KEPT TO A MINIMUM AND RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION.
12. ALL UNDERGROUND UTILITIES OR STRUCTURES IN PROPOSED PAVEMENT, EMBANKMENT, OR BUILDING AREAS REQUIRING REMOVAL SHALL BE REMOVED AND BACKFILLED COMPLETELY WITH APPROVED ENGINEERED GRANULAR MATERIAL SUITABLE TO THE ARCHITECT AND ENGINEER.
13. ALL WELLS ENCOUNTERED ON THE SITE ARE TO BE ABANDONED PER INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL AGENCY REQUIREMENTS.

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

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER INDIANA
PRELIMINARY NOT FOR CONSTRUCTION
2/22/19
SEAL

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JRS
DR. PJD
CKD. DJK

333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
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WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

EXISTING CONDITIONS / DEMO PLAN

SHEET NO.
C100

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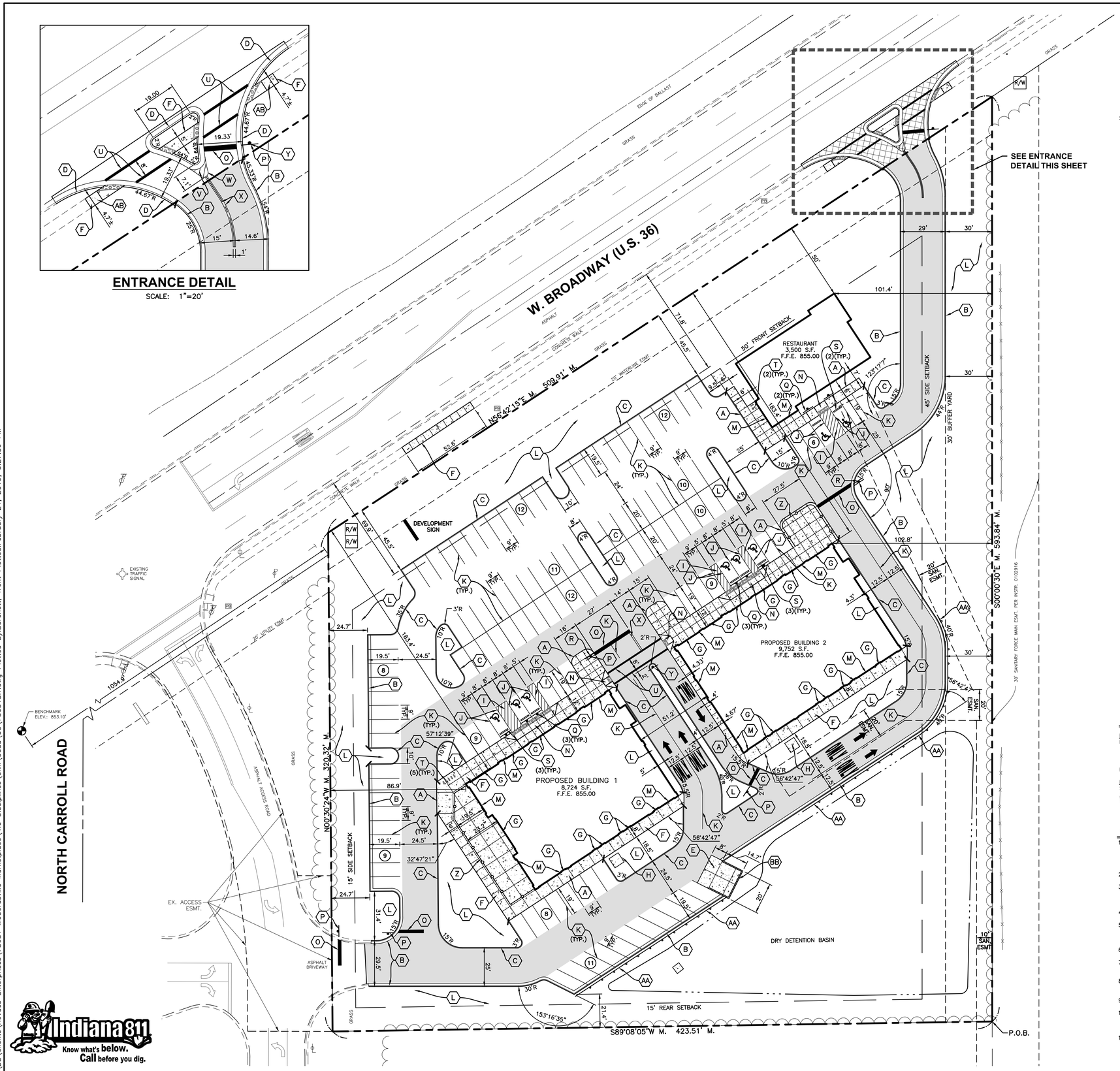
ENTRANCE DETAIL

SCALE: 1"=20'



LEGEND

SYMBOL	DESCRIPTION
A	INTEGRAL WALK & CURB
B	COMBINED CURB & GUTTER (TYPE II)
C	6" STRAIGHT CURB
D	INDOT COMBINED CURB & GUTTER, TYPE B
E	6" CONCRETE PAVEMENT
F	CONCRETE WALK
G	CONCRETE STOOP (5'x5' UNLESS OTHERWISE NOTED)
H	7'x7' TRANSFORMER PAD
I	4" PAINTED BLUE PAVEMENT STRIPE AT 45° ANGLE, 2' O.C.
J	4" PAINTED BLUE PAVEMENT STRIPE
K	4' PAINTED WHITE PAVEMENT STRIPE
L	LANDSCAPED AREA
M	EXPANSION JOINT AT BUILDING
N	ADA RAMP
O	STOP BAR
P	STOP SIGN
Q	ADA PARKING SIGN
R	"DO NOT ENTER" SIGN
S	PRECAST CONCRETE WHEEL STOP
T	BICYCLE RACK
U	8" SOLID WHITE THERMOPLASTIC LINE
V	24" SOLID YELLOW DIAGONAL THERMOPLASTIC STRIPE
W	4" SOLID YELLOW THERMOPLASTIC LINE
X	4" SOLID YELLOW DOUBLE THERMOPLASTIC LINE
Y	"YIELD TO PEDESTRIANS" SIGN
Z	RAILING (SEE ARCHITECTURAL PLANS)
AA	WOODEN GUARDRAIL
AB	INDOT ADA RAMP (SEE SHEET C601)
BB	TRASH ENCLOSURE
	ADA PAVEMENT SYMBOL
	SIGN
	CURB TRANSITION
4	NUMBER OF PARKING SPACES
	THRU ARROW PAINTED RETROREFLECTIVE WHITE
ONLY	"ONLY" PAINTED RETROREFLECTIVE WHITE
	PROPOSED CONCRETE
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED R/W ASPHALT PAVEMENT PER INDOT STANDARDS
	DETECTABLE WARNING SURFACE

PARKING DATA

PER ZONING ORDINANCE	
PARKING SPACES REQUIRED	
RETAIL, SMALL (1 PER 300 S.F.)	61
GATHERING SPACE (1 FOR EVERY 3 SEATS IN A RESTAURANT)	47
BICYCLE PARKING (1 PER 30 PARKING SPACES)	4
PARKING SPACES PROVIDED	
STANDARD PARKING SPACES	119
ADA PARKING SPACES	8
TOTAL PARKING SPACES =	127

SITE DATA

ACREAGE	4.463 AC.
BUILDING 1 S.F.	8,724 S.F.
BUILDING 2 S.F.	9,752 S.F.
RESTAURANT S.F.	3,500 S.F.

SITE NOTES

1. ALL DIMENSIONS IN CURBED AREAS SHALL BE BACK TO BACK OF CURB.
   –ALL DIMENSIONS IN AREAS WITHOUT CURB SHALL BE TO EDGE OF PAVEMENT.
   –ALL DIMENSIONS AT INTEGRAL CURB & WALK SHALL BE TO FACE OF CURB.
   –ALL DIMENSIONS FROM BUILDING SHALL BE FROM FACE OF BUILDING.
2. ALL RADII IN PAVED AREAS & ON CURBS SHALL BE 5' UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITION, THE CONTRACTOR SHALL CONTACT A/E IMMEDIATELY.
4. PROVIDE SMOOTH TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
5. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY THE GENERAL CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS SHALL BE RESURFACED OR RECONSTRUCTED AT LEAST TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION WORK IS COMPLETED.
6. ALL RADII INDICATED SHALL BE FORMED AS CIRCULAR ARCS.
7. ALL DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS OTHERWISE NOTED.
8. ADA RAMP AND SIGNAGE SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, COUNTY, CITY AND LOCAL CODE WHICHEVER HAS JURISDICTION. SEE SITE PLAN FOR LOCATION AND SITE DETAILS FOR SPECIFICATIONS.
9. ALL STRIPES ARE TO BE 4" PAINTED, WHITE, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCY. THE AMOUNT, LOCATION AND SIZE SHALL BE PER DIRECTION OF AGENCY.
11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.

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

PRELIMINARY NOT FOR CONSTRUCTION

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JRS
DR. PJD
CKD. JRS

WOOLPERT
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333 North Alabama Street
Suite 200
Indianapolis, IN 46204
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McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

SITE PLAN

SHEET NO.
C200

Layout Tab Name: C200, Images: JRS_Stamp_0222219.jpg: , Xrefs: 78681TBLK.dwg; 78681-x.dwg; 78681-p.dwg
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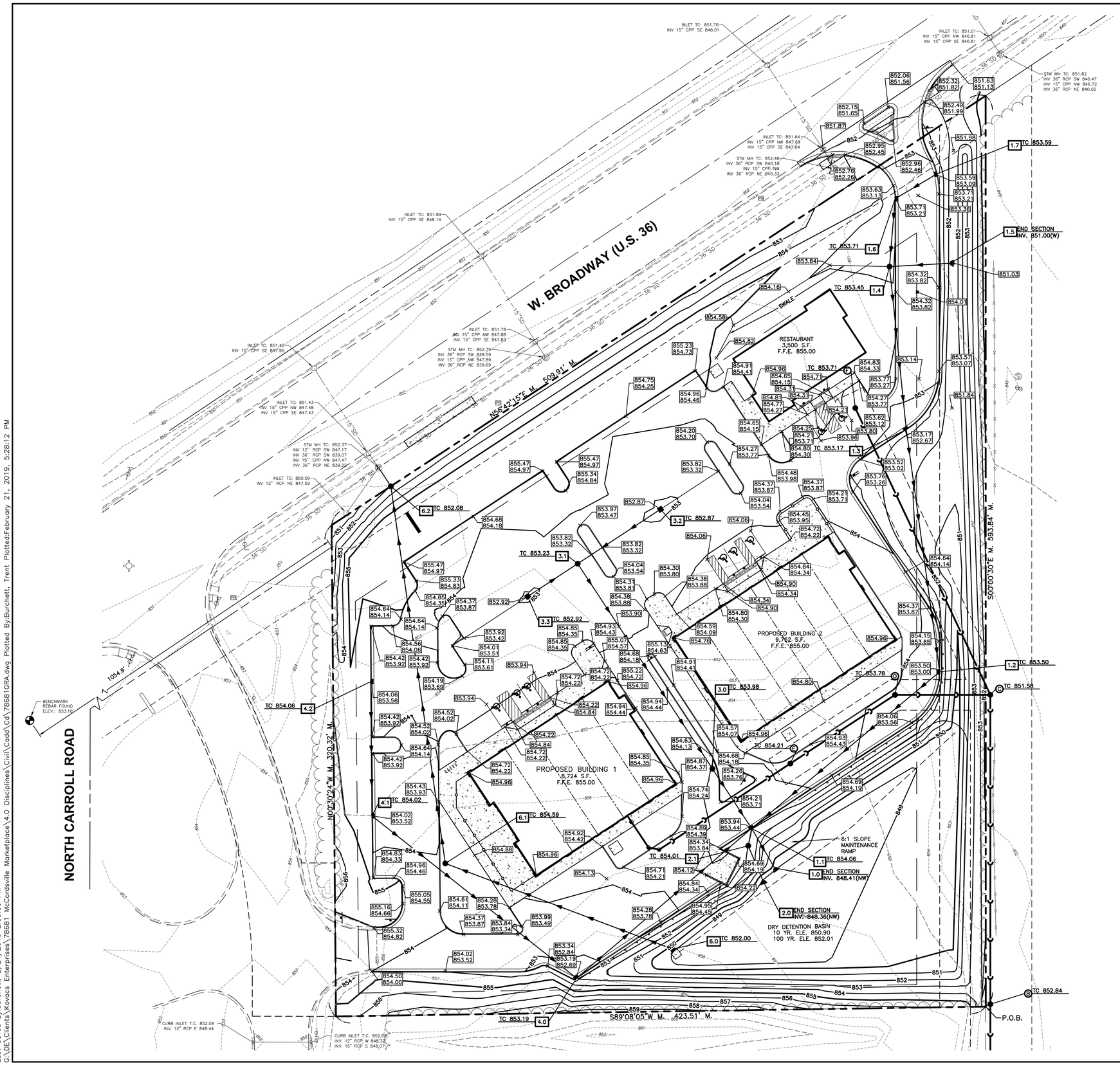

NORTH

0 30 60 90

GRAPHIC SCALE IN FEET

LEGEND

EXISTING		PROPOSED
749	CONTOUR LINE	749
	SPOT ELEVATION	753.00 OR 753.00 / 752.50
	MATCH EXISTING GRADE	M.E.G.
	STORM CURB INLET	
	STORM INLET	
	CONCRETE END SECTION	
	STORM MANHOLE	
	SANITARY MANHOLE	
	SANITARY CLEANOUT	
	STORM STRUCTURE NUMBER	1
	SANITARY STRUCTURE NUMBER	100
SD	STORM SEWER	
	SANITARY SEWER	
	TRAFFIC SIGNAL	
	LIGHT POLE	
	POWER POLE	
	TRAFFIC SIGNAL POLE	
	GUY WIRE	
	SIGN	
	DITCH	
	POND	
	FENCE	
	TREE LINE	

GRADING NOTES

1. PROVIDE POSITIVE DRAINAGE IN ALL AREAS. PAVING CONTRACTOR SHALL TEST FOR ANY PONDING CONDITIONS AFTER INSTALLATION AND CORRECT.
2. PROVIDE SMOOTH TRANSITION FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
3. ALL AREAS WHERE PROPOSED ASPHALT PAVEMENT MEETS THE EXISTING PAVEMENT THE EXISTING PAVEMENT EDGE SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHILE EXCAVATING AROUND EXISTING TREES SO NOT TO DISTURB AND TO MINIMIZE OR ELIMINATE DAMAGE TO ROOT SYSTEM.
5. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO NOT TO CAUSE DAMAGE.
6. THE EXCAVATING CONTRACTOR OR LANDSCAPING CONTRACTOR SHALL INSTALL THE FINISH GRADE AT 1/2" BELOW PAVEMENTS WHEN SHEET DRAINAGE IS PROPOSED ACROSS THAT SEEDED AREA.
7. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY THE GENERAL CONTRACTOR, SUBCONTRACTORS OR SUPPLIERS, SHALL BE RESURFACED OR RECONSTRUCTED AT LEAST TO THEIR ORIGINAL CONDITION AFTER THE CONSTRUCTION WORK IS COMPLETED.
8. T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.

Indiana811 Know what's below. Call before you dig.

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PRELIMINARY NOT FOR CONSTRUCTION
2/22/19

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DATE 02/22/19
DES. JMC
DR. JMC
CKD. JRS

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McCORDSVILLE MARKETPLACE

WEST BROADWAY
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GRADING PLAN

SHEET NO.
C300

Layout Tab Name: C300, Images: JRS_Stamp_022219.jpg; , Xrefs: 78681TBLK.dwg; 78681-x.dwg; 78681-p.dwg; 78681-g.dwg
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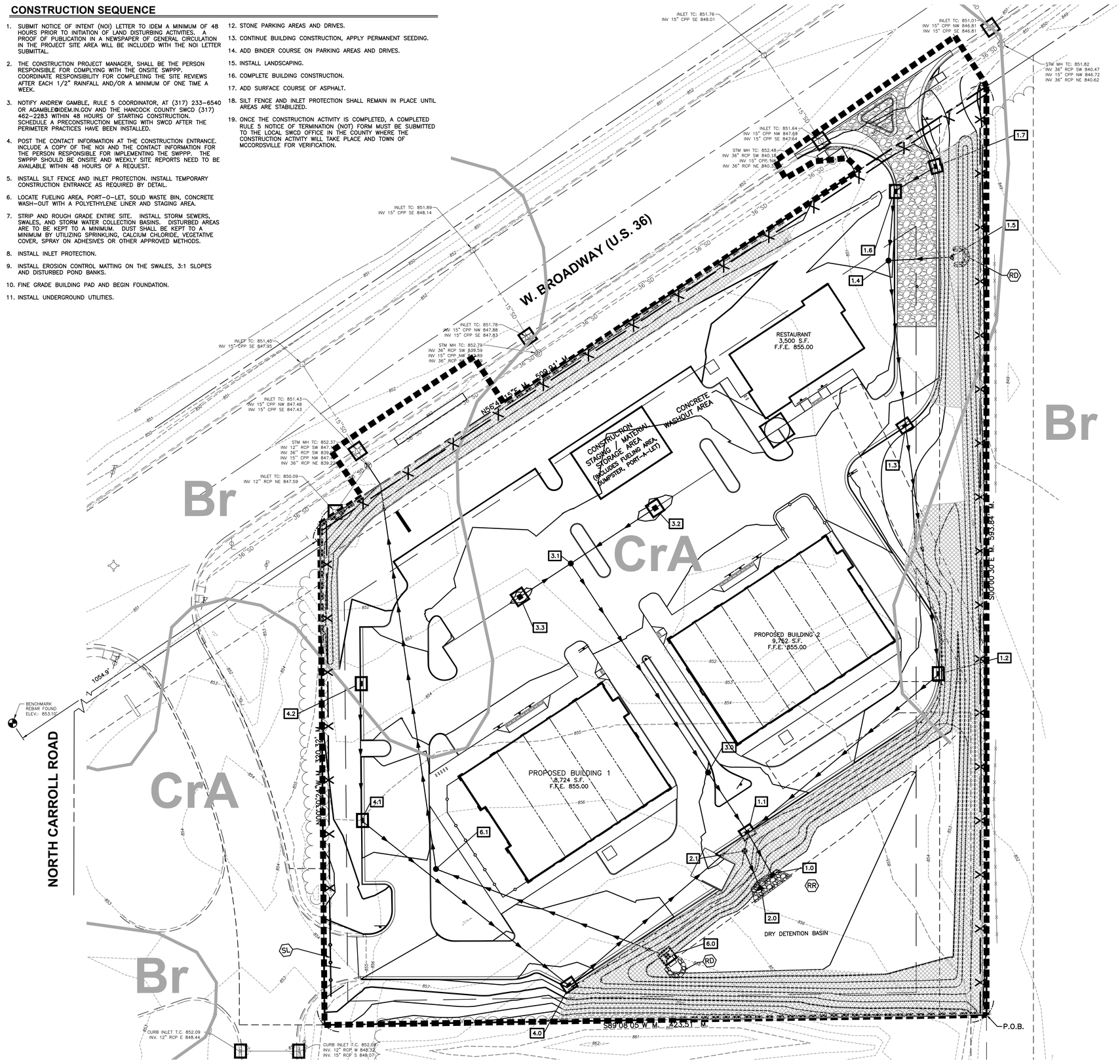
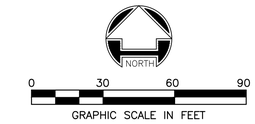
CONSTRUCTION SEQUENCE

1. SUBMIT NOTICE OF INTENT (NOI) LETTER TO IDEM A MINIMUM OF 48 HOURS PRIOR TO INITIATION OF LAND DISTURBING ACTIVITIES. A PROOF OF PUBLICATION IN A NEWSPAPER OF GENERAL CIRCULATION IN THE PROJECT SITE AREA WILL BE INCLUDED WITH THE NOI LETTER SUBMITTAL.
2. THE CONSTRUCTION PROJECT MANAGER, SHALL BE THE PERSON RESPONSIBLE FOR COMPLYING WITH THE ONSITE SWPPP. COORDINATE RESPONSIBILITY FOR COMPLETING THE SITE REVIEWS AFTER EACH 1/2" RAINFALL AND/OR A MINIMUM OF ONE TIME A WEEK.
3. NOTIFY ANDREW GAMBLE, RULE 5 COORDINATOR, AT (317) 233–6540 OR AGAMBLE@IDEM.IN.GOV AND THE HANCOCK COUNTY SWCD (317) 462–2283 WITHIN 48 HOURS OF STARTING CONSTRUCTION. SCHEDULE A PRECONSTRUCTION MEETING WITH SWCD AFTER THE PERIMETER PRACTICES HAVE BEEN INSTALLED.
4. POST THE CONTACT INFORMATION AT THE CONSTRUCTION ENTRANCE. INCLUDE A COPY OF THE NOI AND THE CONTACT INFORMATION FOR THE PERSON RESPONSIBLE FOR IMPLEMENTING THE SWPPP. THE SWPPP SHOULD BE ONSITE AND WEEKLY SITE REPORTS NEED TO BE AVAILABLE WITHIN 48 HOURS OF A REQUEST.
5. INSTALL SILT FENCE AND INLET PROTECTION. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS REQUIRED BY DETAIL.
6. LOCATE FUELING AREA, PORT–O–LET, SOLID WASTE BIN, CONCRETE WASH–OUT WITH A POLYETHYLENE LINER AND STAGING AREA.
7. STRIP AND ROUGH GRADE ENTIRE SITE. INSTALL STORM SEWERS, SWALES, AND STORM WATER COLLECTION BASINS. DISTURBED AREAS ARE TO BE KEPT TO A MINIMUM. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING, CALCIUM CHLORIDE, VEGETATIVE COVER, SPRAY ON ADHESIVES OR OTHER APPROVED METHODS.
8. INSTALL INLET PROTECTION.
9. INSTALL EROSION CONTROL MATTING ON THE SWALES, 3:1 SLOPES AND DISTURBED POND BANKS.
10. FINE GRADE BUILDING PAD AND BEGIN FOUNDATION.
11. INSTALL UNDERGROUND UTILITIES.
12. STONE PARKING AREAS AND DRIVES.
13. CONTINUE BUILDING CONSTRUCTION, APPLY PERMANENT SEEDING.
14. ADD BINDER COURSE ON PARKING AREAS AND DRIVES.
15. INSTALL LANDSCAPING.
16. COMPLETE BUILDING CONSTRUCTION.
17. ADD SURFACE COURSE OF ASPHALT.
18. SILT FENCE AND INLET PROTECTION SHALL REMAIN IN PLACE UNTIL AREAS ARE STABILIZED.
19. ONCE THE CONSTRUCTION ACTIVITY IS COMPLETED, A COMPLETED RULE 5 NOTICE OF TERMINATION (NOT) FORM MUST BE SUBMITTED TO THE LOCAL SWCD OFFICE IN THE COUNTY WHERE THE CONSTRUCTION ACTIVITY WILL TAKE PLACE AND TOWN OF MCCORDSVILLE FOR VERIFICATION.





LEGEND

CONSTRUCTION LIMITS
SILT FENCE
INLET PROTECTION
PROPOSED STORM STRUCTURE
EROSION CONTROL BLANKET
TEMPORARY ROCK DONUT (RD)
TEMPORARY CONSTRUCTION ENTRANCE
RIPRAP (RR)
PERMANENT SEEDING (PS)
CONCRETE WASHOUT
SEDIMENT BARRIER LOG (SL)

SOILS LEGEND

MAP UNIT SYMBOL	MAP UNIT NAME
Br	BROOKSTON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
CrA	CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.
2. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
3. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY HANCOCK COUNTY.
6. T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.

SEEDBED PREPARATION FOR PERMANENT SEEDING:

1. TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS. (CONTACT YOUR COUNTY SWCD OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND ADDITIONAL SOILS INFORMATION)
2. IF SOIL pH IS UNSUITABLE FOR THE SPECIES TO BE SEEDED, APPLY LIME ACCORDING TO TEST RECOMMENDATIONS.
3. FERTILIZE AS RECOMMENDED BY THE SOIL TEST. IF TESTING WAS NOT DONE, CONSIDER APPLYING 400–600 LBS./ACRE OF 12–12–12 ANALYSIS, OR EQUIVALENT, FERTILIZER.
4. APPLY TOPSOIL BACK ON COMMON AREAS AND OTHER AREAS WHERE POSSIBLE. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED, WORKING THE FERTILIZER AND LIME INTO THE SOIL 2–4 INCHES DEEP WITH A DISC OR RAKE OPERATED ACROSS THE SLOPE.

MAINTENANCE SCHEDULE AND REQUIREMENTS:

1. CONTRACTOR SHALL NOTIFY THE ENGINEER/PROJECT MANAGER OF THE INDIVIDUAL WHO IS RESPONSIBLE FOR THE ROUTINE DAILY INSPECTION/MAINTENANCE CHECKS OF ALL EROSION AND SEDIMENT CONTROL MEASURES. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE CONTRACTOR ON A DAILY BASIS DURING THE PERIOD OF CONSTRUCTION ACTIVITY, AND AFTER EACH STORM EVENT.
2. AT THE COMPLETION OF CONSTRUCTION AND THE AREA STABILIZED, THE CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES NO LONGER NEEDED IN A MANNER THAT MINIMIZES SITE DISTURBANCE, AND SEED IMMEDIATELY OR COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, AS REQUIRED, WITH THE OWNER.

ALL AREAS THAT ARE LEFT UNDISTURBED FOR 7 DAYS SHALL RECEIVE SEED AND MULCH.

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

JONATHAN R. SHICIETT REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
STATE OF INDIANA
8/22/19

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JRS
DR. PJD
CKD. DJK

333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
FAX: 317.291.5805
WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

EROSION CONTROL PLAN

SHEET NO.
C301

Layout Tab Name: C301, Images: JRS_Stamp_0222219.jpg: , Xrefs: 78681TBLK.dwg; 78681–x.dwg; 78681–p.dwg
Last Saved By:burchett, 2/21/2019 5:36:57 PM
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EROSION CONTROL NOTES

GUIDANCE ON EACH OF THE 23 BASIC PLAN ELEMENTS (SECTION A)

A1 PLAN INDEX ITEMS RELATING TO THE SWPPP ARE INCLUDED AS NOTES ON THIS SHEET

A2 SEE SHEET C200 FOR SITE PLAN.

A3 THIS PROJECT INVOLVES THE CONSTRUCTION OF AN 8,638 SQUARE FOOT BUILDING FOR THE PURPOSE OF RETAIL SALES, A 9,648 SQUARE FOOT PAD FOR A FUTURE BUILDING, PARKING LOTS, ENTRANCE DRIVES, SIDEWALKS, STORM AND SANITARY SEWERS, AND OTHER SITE-RELATED UTILITIES.

A4 THE VICINITY MAP IS LOCATED ON THE COVER SHEET.

A5 LEGAL DESCRIPTION IS LOCATED ON THE COVER SHEET.

LATITUDE N 39°53'17", LONGITUDE W 85°56'03"

A6 LOT BOUNDARIES ARE SHOWN ON SHEET C200.

A7 HYDROLOGIC UNIT CODE: 05120201100140

A8 THERE ARE NO STATE OR FEDERAL WATER QUALITY PERMITS REQUIRED FOR THIS SITE.

A9 STORMWATER WILL BE CAPTURED ON SITE BY PROPOSED CATCH BASINS AND CURB INLETS THAT WILL ROUTE THE DRAINAGE TO THE PROPOSED DETENTION POND WHICH OUTLETS TO THE MAINLINE ALONG W. BROADWAY (U.S. 36).

A10 ALL WETLANDS, LAKES, AND WATER COURSES ON AND ADJACENT TO THE SITE ARE SHOWN AND LABELED ON THE PLAN.

A11 THE ULTIMATE RECEIVING WATER IS DRY BRANCH.

A12 THERE ARE NO AREAS ON SITE WHERE STORM WATER MAY POTENTIALLY ENTER GROUNDWATER.

A13 THE SITE IS LOCATED WITHIN FLOOD ZONE X, 18059C0018D. THERE ARE NO FLOOD PLAINS, FLOOD WAY FRINGES OR FLOOD WAYS ON THE SITE.

A14 PRE-CONSTRUCTION PEAK DISCHARGE: 5.70 CFS (10-YEAR
POST-CONSTRUCTION PEAK DISCHARGE: 0.44 CFS (10-YEAR
DETENTION IS PROVIDED IN A DRY DETENTION POND.

A15 ADJACENT LAND USES:

NORTH: RESIDENTIAL-1
SOUTH: RETAIL
EAST: RESIDENTIAL
WEST: GASOLINE STATION

A16 CONSTRUCTION LIMITS ARE SHOWN IN THE PLAN VIEW ON SHEET C301.

A17 VEGETATIVE COVER IS SHOWN IN THE PLAN VIEW ON SHEET C200. AREAS NOT PAVED ARE GRASS.

A18 SOILS INFORMATION. SEE SHEET C301:
Br – BROOKSTON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES
CrA – CROSBY SILT LOAM, 0 TO 2 PERCENT SLOPES

A19 ALL PROPOSED STORM WATER SYSTEMS ARE SHOWN ON SHEETS C300, C301 AND C400. DETAILED INFORMATION CAN BE FOUND ON SHEET C400.

A20 THERE IS OFF-SITE CONSTRUCTION ACTIVITY PLANNED WITH THIS PROJECT FOR THE CONSTRUCTION OF A SANITARY SEWER AND DRIVE ENTRANCE. SEE SHEET C301.

A21 THERE ARE SOIL STOCKPILES PLANNED FOR THIS PROJECT. SEE SHEET C301

A22 EXISTING TOPOGRAPHY IS SHOWN IN THE PLAN VIEW ON SHEET C100.

A23 PROPOSED CONTOURS AND SPOT SHOTS ARE PROVIDED ON SHEET C300 TO INDICATE DRAINAGE PATTERNS.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION – CONSTRUCTION COMPONENT (SECTION B)

B1 POTENTIAL POLLUTANT SOURCES DURING CONSTRUCTION ACTIVITIES INCLUDE CONCRETE WASTE WATER, TRASH, FOSSIL FUELS, OIL, GREASE, PAINT. EXPOSURE OF THESE POLLUTANTS TO STORM WATER RUNOFF SHOULD BE MINIMIZED BY PERFORMING ACTIVITIES SUCH AS EQUIPMENT STORAGE, REFUELING, MAINTENANCE AND PORT-A-LET PLACEMENT IN DESIGNED AREAS AS SHOWN ON SHEET C301.

B2 A CONSTRUCTION SEQUENCE CAN BE FOUND ON SHEET C301.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN ON SHEET C302.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN AND ON SHEET C303.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN AND ON SHEET C303.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN AND ON SHEET C303.

B7 RUNOFF CONTROL MEASURES ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN AND ON SHEET C303.

B8 STORM WATER OUTLET PROTECTION SPECIFICATIONS DETAILS ARE INCLUDED HEREIN AND ON SHEET C301.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS ARE SHOWN ON SHEET C301 AND DETAILS ARE INCLUDED HEREIN AND ON SHEET C303.

B10 WATER QUALITY MEASURES ARE PROVIDED BY AQUASWIRL (SEE DETAIL ON SHEET C602).

B11 SEE SEEDING SCHEDULE DETAIL AND EROSION CONTROL BLANKET STAPLE PATTERN ON SHEET C303.

B12 SEE EROSION CONTROL INSTALLATION AND SEEDING SCHEDULE DETAILS ON SHEET C303.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN: IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTOR SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL. IF A SPILL SHOULD OCCUR PLEASE CONTACT THE APPROPRIATE AUTHORITIES BELOW:

EMERGENCY RESPONSE
911

McCORDSVILLE FIRE DEPARTMENT
(317)335-3497

McCORDSVILLE POLICE DEPARTMENT
(317)335-2812

INDIANA DEPARTMENT OF NATURAL RESOURCES
(812)477-8773

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(888)233-7745

HANCOCK COUNTY SOIL AND WATER
(317)462-2283

HANCOCK COUNTY SURVEYOR'S OFFICE
(317)477-1150

OWNER'S NAME
OWNER'S PHONE NUMBER

1. CONSTRUCTION EQUIPMENT

A. FUELING, LUBRICATION, AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION, AS DESIGNATED ON SHEET C301, SO THAT SPILLS ARE LIMITED TO THAT SPECIFIC LOCATION WHICH WILL FACILITATE THE CLEANUP OF SPILLS. IF AN OUTSIDE FUELING TANK IS PLANNED TO BE ON SITE, IT SHALL BE DOUBLE WALLED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL, THE FLUID SHALL IMMEDIATELY BE CLEANED UP BY REMOVING THE CONTAMINATED SOIL OR STONE WHICH SHALL BE DISPOSED OF IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHALL BE SOAKED UP BY AN ACCEPTABLE MATERIAL SUCH AS OIL DRY AND THE ABSORBENT MATERIAL DISPOSED OF IN A PROPER MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT.

B. EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. WHEN EQUIPMENT MUST BE REPAIRED ONSITE, IT SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA IF POSSIBLE. OTHERWISE, SUITABLE ON SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING REPAIR TO CATCH ANY SPILLED FLUIDS AND THESE FLUIDS SHOULD BE DISPOSED OF IN A PROPER MANNER.

C. ALL REUSABLE FLUID CONTAINERS, SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH TIME THEY ARE USED. IF LEAKS ARE FOUND, THE FLUID SHALL BE REMOVED FROM THE CONTAINER IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY DISPOSABLE CONTAINERS, SUCH AS GREASE TUBES AND LUBRICATING OIL AND BRAKE FLUID CONTAINERS, AND THEIR PACKAGING, SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE GROUND OR IN THE OPEN ON THE CONSTRUCTION SITE.

2. CONSTRUCTION MATERIALS AND THEIR PACKAGING

A. EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION IN THE PROPER SEQUENCING TO MINIMIZE SOIL EROSION. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED AS DESCRIBED ELSEWHERE IN THESE PLANS. EXCESSIVE DUSTING OF SOIL ON THE SITE SHALL BE MINIMIZED BY REDUCING CONSTRUCTION TRAFFIC ACROSS BARE SOIL DURING DRY AND/OR WINDY WEATHER, AND BY APPLYING WATER OR OTHER ACCEPTABLE DUST CONTROL MEASURES TO THE SOIL. UPON COMPLETION OF CONSTRUCTION AND SUITABLE ESTABLISHMENT OF PERMANENT VEGETATION, TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE, CHECK DAMS, AND INLET PROTECTION DEVICES SHALL BE REMOVED IN A MANNER TO MINIMIZE ADDITIONAL LAND DISTURBANCE. ANY AREAS DISTURBED BY THESE OPERATIONS SHALL BE PROPERLY REVEGETATED.

B. LARGE WASTE MATERIALS CREATED BY CUTTING, SAWING, DRILLING, OR OTHER OPERATIONS SHALL BE PROPERLY DISPOSED OF IN SUITABLE ONSITE WASTE CONTAINERS. THE SITE SHALL BE CHECKED AT THE END OF THE DAY, AT A MINIMUM, AND ALL WASTE MATERIALS, INCLUDING THOSE BLOWN ACROSS OR OFF THE SITE BY WIND, SHALL BE PICKED UP AND DISPOSED OF IN SUITABLE CONTAINERS. WHERE POSSIBLE, OPERATIONS SUCH AS SAWING THAT CREATE SMALL PARTICLES SHOULD BE PERFORMED IN ONE SPOT IN AN AREA PROTECTED FROM WIND, AND WASTE PARTICLES COLLECTED AND DISPOSED OF FREQUENTLY TO MINIMIZE WIND DISPERSAL. PACKAGING USED TO TRANSPORT MATERIALS TO THE SITE FOR CONSTRUCTION OF THE FACILITY SHALL BE DISPOSED OF PROPERLY, WHETHER THE MATERIAL IS TAKEN OUT OF ITS PACKAGE AND INCORPORATED INTO THE PROJECT IMMEDIATELY OR STORED ONSITE FOR FUTURE USE. PACKAGED MATERIALS STORED ONSITE SHALL BE INSPECTED REGULARLY AND ANY LOOSE PACKAGING SHALL BE REPAIRED OR DISPOSED OF PROPERLY.

C. ALL DEWATERING ACTIVITIES SHALL BE DONE IN ACCORDANCE TO GOOD EROSION CONTROL PRACTICES. THESE PRACTICES SHOULD INCLUDE THE USE OF DIRT BAGS SUCH AS DANDY DIRT BAGS. THE USE OF THESE TYPES OF DEWATERING DEVICES WILL REMOVE LARGE QUANTITIES OF SILT, SEDIMENT, AND DIRT AND PREVENT THESE MATERIALS FROM ENTERING THE STORM SEWER SYSTEM.

D. IF THE USE OF LIME IS USED TO STABILIZE THE SOIL OF THE SITE THEN ALL CONSTRUCTION EQUIPMENT USED SHALL BE CLEANED OF ALL EXCESS MATERIAL WITH WATER IN THE CONSTRUCTION STAGING AREA AS SHOWN WITHIN THESE PLANS.

E. NUTRIENTS AND FERTILIZERS SHALL ONLY BE USED TO ESTABLISH RAPID VEGETATION. WHEN THESE PRODUCTS ARE UTILIZED, THE USER SHOULD PAY STRICT ATTENTION TO THE PRODUCTS RECOMMENDED USAGE.

B14 SEE EROSION CONTROL INSTALLATION DETAIL.

B15 NOT APPLICABLE.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION – POST CONSTRUCTION COMPONENT (SECTION C)

C1 EXPECTED POLLUTANTS WILL BE MINIMAL IN NATURE, POST-DEVELOPMENT. OIL, GREASE, ANTIFREEZE, GASOLINE, ETC. MAY OCCUR IN LIMITED AMOUNTS AS A RESULT OF THE MAJORITY OF THIS PROJECT SITE BEING USED FOR TEMPORARY CUSTOMER PARKING. THE ONLY OTHER REASONABLY FORESEEN POLLUTION FROM THIS SITE WILL BE LITTER AND TRASH DUMPED BY VISITORS TO THE RETAIL STORES.

C2 ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLAN VIEW WILL BE INSTALLED BEFORE ANY DISTURBANCE OF THE PROJECT OCCURS. FINAL STABILIZATION OF THE SITE WILL BE ACCOMPLISHED USING PERMANENT SEEDING OF ALL OPEN AREAS, LANDSCAPING WITH MULCH ON PARKING ISLANDS, AND PLACEMENT OF ASPHALT PAVEMENT.

C3 THE CONTRACTOR (TBD) WILL MAINTAIN ALL PARKING AREAS ON A WEEKLY BASIS. THIS MAINTENANCE INCLUDES FREQUENT SWEEPING OF ALL PAVED SURFACES AS WELL AS COLLECTION OF ANY LITTER DURING CART RETRIEVAL EFFORTS. ALL GREEN SPACES WILL BE MAINTAINED WITH REGULAR MOWING DURING GROWING SEASONS. MINIMAL FERTILIZER APPLICATIONS WILL OCCUR TO THE GREEN SPACES.

C4 PERMANENT STORMWATER QUALITY MEASURES INCLUDE THE PROPOSED AQUA-SWIRL WATER QUALITY UNIT.

MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION

C5 MEASURES WILL BE THE RESPONSIBILITY OF THE PROJECT OWNER, RICK KOVACS, UTILIZING PROCEDURES OUTLINED ON THESE PLANS. THE MAINTENANCE GUIDELINES CONSIST MOSTLY OF GOOD HOUSEKEEPING MEASURES. ANY GRASSED OR VEGETATED AREAS THAT EXPERIENCE EROSION FROM RAINFALL EVENTS SHOULD BE REPAIRED AND REVEGETATED AS SOON AS POSSIBLE. TRASH OR LITTER SHOULD BE PICKED UP AND PROPERLY DISPOSED TO PREVENT IT FROM GETTING INTO THE STORM DRAINAGE SYSTEM AND DOWNSTREAM WATERWAYS. AN O&M MANUAL HAS ALSO BEEN PREPARED FOR UPKEEP AND MAINTENANCE.

EROSION OF THE DETENTION POND BANKS SHOULD BE ADDRESSED AS SOON AS IT BECOMES VISIBLE BY FILLING THE ERODED AREA WITH SUITABLE SOIL AND ESTABLISHING VEGETATION IMMEDIATELY, PREFERABLY BY SODDING. THE SAME MEASURE SHOULD BE USED FOR STEEP BANKS OF ANY BERMS OR SWALES.

PAVEMENT AREAS SHOULD BE MONITORED FOR POLLUTANTS. ANY LARGE QUANTITIES OF FLUIDS SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, ETC. FOUND ON THE PAVEMENT SHOULD BE REPORTED TO THE OWNER. THE OWNER SHOULD CLEAN THE POLLUTANTS AND PREVENT THE SOURCE FROM ENTERING THE SITE IN THE FUTURE. THE O&M MANUAL SHALL BE UTILIZED FOR ANY MAINTENANCE AND UPKEEP REQUIRED FOR THE PERMANENT BMPS. FINALLY, PAVEMENTS SHOULD ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATIVE AREAS. IF POST CONSTRUCTION EROSION IS OCCURRING, THE SOURCE SHOULD BE RE-STABILIZED AS SOON AS POSSIBLE BY SEEDING, SODDING OR MULCHING.

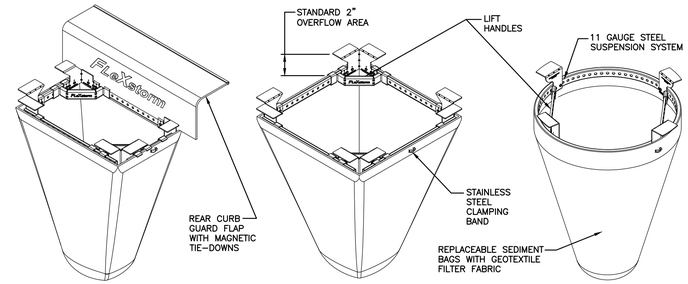
GENERAL NOTES

1. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.

2. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.

3. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.

4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT'S "INDIANA STORM WATER QUALITY MANUAL" DATED OCTOBER 2007.

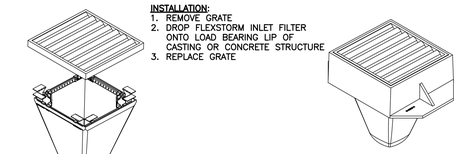


TYPICAL CURB BOX INLET FILTER

TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER

TYPICAL ROUND INLET FILTER

FLEXSTORM Inlet Filter Specifications		
WOVEN Geotextile Sediment Bag Specs (2 ft³ vol)		
Material Property	Test Method	Value (ave)
Grab Tensile	ASTM D 4632	255 x 275
Puncture Strength	ASTM D 4833	135 lbs
Trapezoidal Tear	ASTM D 4533	75 lbs
UV Resistance	ASTM D 4355	90%
App Open Size (AOS)	ASTM D 4751	20 sieve
Permittivity	ASTM D 4491	1.5 / sec
Water Flow Rate	ASTM D 4491	200 gpm/sqft
Sediment Removal Efficiency (8% mix)	ASTM D 7351	82%



INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

DRAWN IPP	ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC DISTRIBUTED BY ADS WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM	
CHECKED		
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MFG		
APPROVED		
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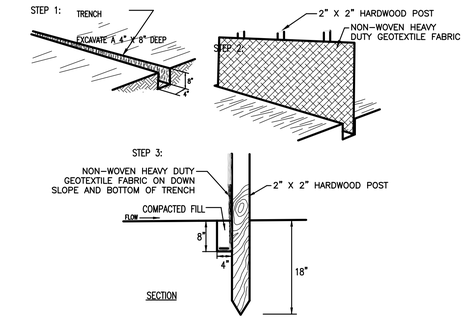
	SCALE:	SHEET 1 OF 1	

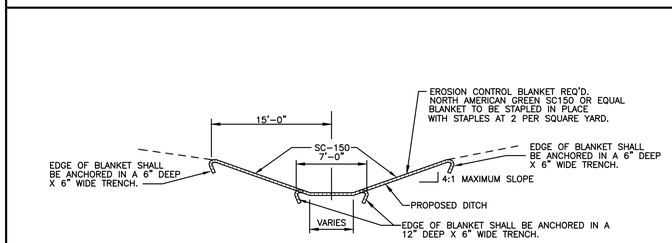


INSTALLATION:
1. LAY OUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH.
5. LAY THE LOWER FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

NOTE: IF THE SILT FENCE IS BEING CONSTRUCTED ON-SITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

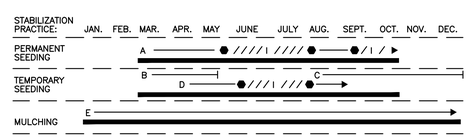
MAINTENANCE:
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. **NOTES ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.**
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.

SILT FENCE DETAIL
NO SCALE



NOTE: ALL EROSION CONTROL BLANKETS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS BASED ON THE PROPOSED TYPE AND USE.

TYPICAL EROSION CONTROL BLANKET
NO SCALE



A = KENTUCKY BLUEGRASS 40%, TURF TYPE TALL FESCUE 40%, ANNUAL RYE GRASS 20% PLUS 2 TONS OF STRAW MULCH/ ACRE

APPLY MIXTURE AT A RATE OF 2 LBS. PER 1000 SQ.FT.

B = SPRING OATS 3 BUSHEL PER ACRE

C = WHEAT OR RYE 2 BUSHEL PER ACRE

D = ANNUAL RYE GRASS (1 LB. PER 1000 SQ. FT.)

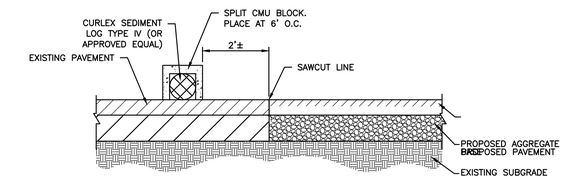
E = STRAW MULCH (90 LBS. PER 1000 SQ.FT.)

●/I/● IRRIGATION NEEDED DURING JUNE, JULY, AND / OR SEPTEMBER.

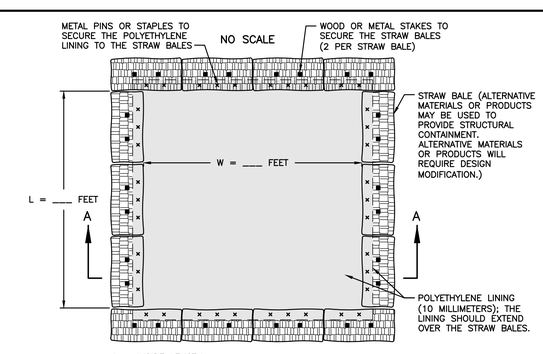
●● IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

NOTE: ALL SEEDING SHALL HAVE 12-0-12 FERTILIZER APPLIED 400-600 LBS. PER ACRE OR AS SPECIFIED.

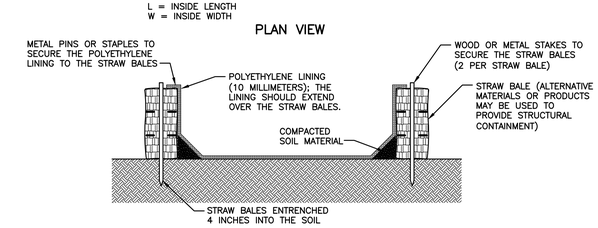
SEEDING SCHEDULE
NO SCALE



SEDIMENT LOG DETAIL



PLAN VIEW



SECTION A-A

CONCRETE WASHOUT DETAIL
NO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JRS
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EROSION CONTROL NOTES & DETAILS

SHEET NO.
C302

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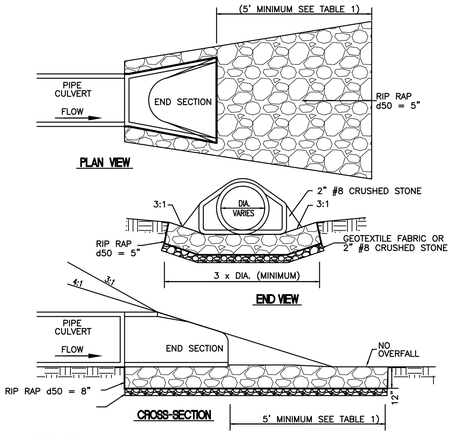


SIZING FOR FLOW DISSIPATERS AT PIPE OUTLET			
PIPE SIZE	AVERAGE STONE DIA.	APRON WIDTH	APRON LENGTH
8 IN.	3 IN.	2 TO 3 FT.	5 TO 7 FT.
10 IN.	5 IN.	3 TO 4 FT.	5 TO 7 FT.
12 IN.	5 IN.	3 TO 4 FT.	6 TO 12 FT.
15 IN.	8 IN.	4 TO 6 FT.	6 TO 12 FT.
18 IN.	8 IN.	4 TO 6 FT.	8 TO 18 FT.
24 IN.	10 IN.	6 TO 8 FT.	12 TO 22 FT.
30 IN.	12 IN.	8 TO 10 FT.	14 TO 28 FT.
36 IN.	14 IN.	10 TO 12 FT.	16 TO 32 FT.

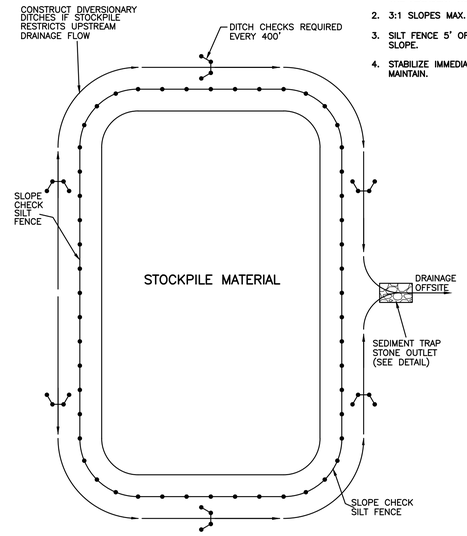
INSTALLATION:
1. DIVERT SURFACE WATER RUNOFF AROUND THE STRUCTURE DURING CONSTRUCTION SO HAT THE SITE CAN BE PROPERLY DEWATERED FOR FOUNDATION PREPARATION.
2. EXCAVATE FOUNDATION AND APRON AREA SUBGRADES BELOW DESIGN ELEVATION TO ALLOW FOR THICKNESS OF THE FILTER MEDIUM AND RIPRAP.
3. COMPACT ANY FILL USED IN SUBGRADE PREPARATION TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL MATERIAL.
4. SMOOTH SUBGRADE ENOUGH TO PROTECT GEOTEXTILE FABRIC FROM TEARING.
5. PLACE GEOTEXTILE FABRIC OR AGGREGATE BEDDING MATERIAL (FOR STABILIZATION AND FILTRATION) ON THE COMPACTED AND SMOOTHED FOUNDATION.
6. INSTALL RIPRAP TO THE LINES AND ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS. BLEND RIPRAP SMOOTHLY TO SURROUNDING GRADE. IF THE CHANNEL IS WELL DEFINED, EXTEND THE APRON ACROSS THE CHANNEL BOTTOM AND UP THE CHANNEL BANKS TO AN ELEVATION OF SIX INCHES ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
7. IF GEOTEXTILE FABRIC TEARS WHEN PLACING RIPRAP, REPAIR IMMEDIATELY BY LAYING AND STAPLING A PIECE OF FABRIC OVER DAMAGED AREA, OVERLAPPING THE UNDAMAGED AREAS BY AT LEAST 12 INCHES.
8. CONSTRUCT A SMALL PLUNGE POOL WITHIN THE OUTLET APRON. (RIPRAP APRONS MUST BE LEVEL WITH OR SLIGHTLY LOWER THAN THE RECEIVING CHANNEL AND SHOULD NOT PRODUCE AN OVERFALL OR RESTRICT FLOW OF THE WATER CONVEYANCE STRUCTURE.)

MAINTENANCE:
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.
- CHECK FOR EROSION OR SCOURING MOUND SIDES O THE APRON; REPAIR IMMEDIATELY.
- CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.

RIPRAP AROUND END SECTION (DOWNSTREAM)

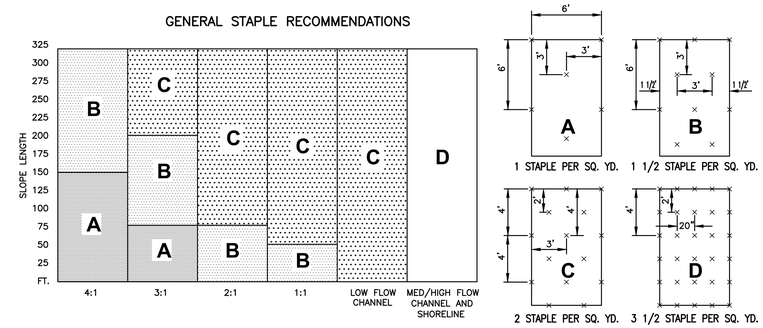
NO SCALE

NOTES:
1. STOCKPILE TO BE NO MORE THAN 20' ABOVE THE FINAL GRADE OF THE ADJACENT ROADWAY.
2. 3:1 SLOPES MAX.
3. SILT FENCE 5' OFF OF THE TOE OF SLOPE.
4. STABILIZE IMMEDIATELY AND MAINTAIN.



STOCKPILE EROSION CONTROL

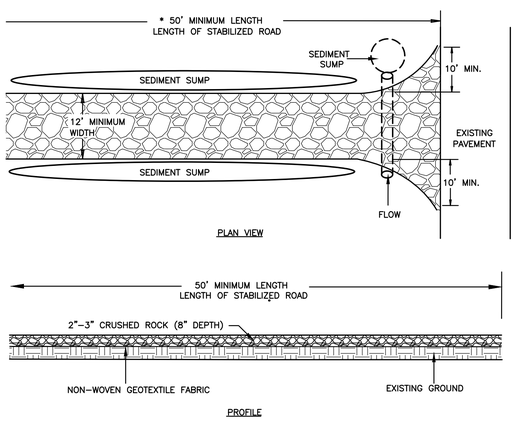
NO SCALE



NOTE:
1. CHANNEL LINING UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
2. STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VERY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.
3. AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

EROSION CONTROL MAT INSTALLATION GUIDE DETAIL

NO SCALE



NOTES:
1. ESTABLISH STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INITIATION OF SITE CONSTRUCTION ACTIVITIES.
2. CARE SHOULD BE TAKEN TO PREVENT MATERIAL MOVEMENT INTO ADJACENT WETLANDS/WATERBODIES.
3. CARE SHOULD BE TAKEN TO MAINTAIN EXISTING ROADSIDE DRAINAGE VIA CULVERT INSTALLATION, WITH SEDIMENT SUMP PLACED DOWNFLOW OF CULVERT.

DESCRIPTION

ALL ACCESS POINTS FROM THE CONSTRUCTION SITE ARE TO INCLUDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT COMPOSED OF COARSE STONE TO THE DIMENSIONS AND SPECIFICATIONS SHOWN HERE. CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE AT THE STABILIZED CONSTRUCTION EXIT. THE PURPOSE IS TO TRAP DUST AND MUD THAT WOULD OTHERWISE BE CARRIED BEYOND THE PERMITTED PROJECT AREA BY CONSTRUCTION TRAFFIC. THE ROUGH TEXTURE OF THE STONE HELPS TO REMOVE CLUMPS OF SOIL ADHERING TO THE CONSTRUCTION VEHICLE TIRES THROUGH THE ACTION OF VIBRATION AND JARRING OVER THE ROUGH SURFACE.

IN THE EVENT THE STABILIZED CONSTRUCTION ENTRANCE IS NOT EFFECTIVE BY ITSELF AND/OR REQUIRES A SIGNIFICANT AMOUNT OF MAINTENANCE, ADDITIONAL PRACTICES, SUCH AS WHEEL WASHING OR STREET SWEEPING, MAY BE REQUIRED.

INSTALLATION
1. STABILIZED CONSTRUCTION ACCESS ROAD SHOULD BE ESTABLISHED AT THE ONSET OF THE CONSTRUCTION ACTIVITIES AND MAINTAINED IN PLACE FOR THE DURATION OF THE CONSTRUCTION PROJECT.
2. INSTALLATION OF THIS PRACTICE SHOULD BE THE RESPONSIBILITY OF THE SITE CLEARING OR EXCAVATING CONTRACTOR.
3. ACCESS LOCATION SHOULD BE CLEARED OF WOODY VEGETATION.
4. NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.
5. ACCESS SIZE SHOULD BE A MINIMUM OF 50'.
6. ACCESS WIDTH SHOULD BE 12' MINIMUM, FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
7. CRUSHED AGGREGATE INDOT CA No. 2 (1-2.5" dia.), SHALL BE PLACED AT LEAST 8" DEEP OVER THE LENGTH AND WIDTH OF THE INGRESS/EGRESS CORRIDOR.

MAINTENANCE
- PERIODIC INSPECTION AND NEEDED MAINTAINENCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
- STABILIZED ENTRANCES SHALL BE REPAIRED AND ROCK ADDED AS NECESSARY.
- SEDIMENT DEPOSITED ON PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY AND RETURNED TO THE CONSTRUCTION SITE.
- IF SOILS ARE SUCH THAT WASHING OF TIRES IS REQUIRED, IT SHALL BE DONE IN A WASH RACK AREA, STABILIZED WITH STONE, IMMEDIATELY PRIOR TO THE CONSTRUCTION ACCESS STABILIZED CORRIDOR.
- AT THE PROJECT COMPLETION, ROCK ACCESS ROAD SHOULD BE REMOVED AND DISPOSED OF UNLESS UTILIZED AS SUBGRADE FOR FINAL ROAD.
- EFFECTIVENESS LIMITED, SEDIMENT MAY BE TRACKED ONTO ROADS REQUIRING ADDITIONAL ACTION.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL

NO SCALE

EROSION CONTROL SCHEDULE

EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOP DRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY	PRIOR TO CLEARING AND GRADING
SILT FENCE	INSPECT AFTER STORM EVENTS; REPAIR ANY AREAS OF DECOMPOSITION OR DAMAGE TO FENCE MATERIAL; REMOVE SEDIMENT AT DEPTH OF ONE HALF FENCE HEIGHT AT LOWEST POINT OR IF FABRIC BULGES; AVOID UNDERMINING DURING CLEANOUT	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY DIVERSIONS	INSPECT WEEKLY AND AFTER EACH STORM EVENT; REMOVE SEDIMENT FROM CHANNEL AND REINFORCE RIDGE AS NEEDED; REPAIR OUTLET DAMAGE IMMEDIATELY; REMOVE SEDIMENT FROM TRAPS WHEN 50% FULL; WHEN WORK AREA IS STABILIZED, REMOVE RIDGE, FILL CHANNEL, REMOVE TEMPORARY SLOPE DRAINS, AND STABILIZE ALL DISTURBED AREAS	ALONG WITH ROUGH GRADING
TEMPORARY SEDIMENT TRAP	INSPECT AFTER STORM EVENTS; REMOVE SEDIMENT AT ONE HALF DESIGN DEPTH; REPLACE SPILLWAY GRAVEL FACING IF CLOGGED; REPAIR EROSION AND HOLES AS NEEDED; REPLACE DISPLACED RIPRAP	DURING CLEARING AND PRIOR TO GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE STANDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGE; TOP DRESS FALL SEEDED WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OF NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING, REPREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED	AFTER FINISH GRADING
STRAW BALES	INSPECT THE BALES AFTER EACH STORM EVENT; REMOVE SEDIMENT DEPOSITS TO PROVIDE STORAGE FOR THE NEXT STORM BEING CAREFUL NOT TO DAMAGE OR UNDERCUT THE BALES; REPLACE DAMAGED OR DETERIORATED BALES IMMEDIATELY	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF STRAW BALES	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
2/22/19
STATE OF INDIANA

No.	DATE	REVISION

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McCORDSVILLE MARKETPLACE
WEST BROADWAY
McCORDSVILLE, INDIANA
EROSION CONTROL DETAILS

SHEET NO.
C303

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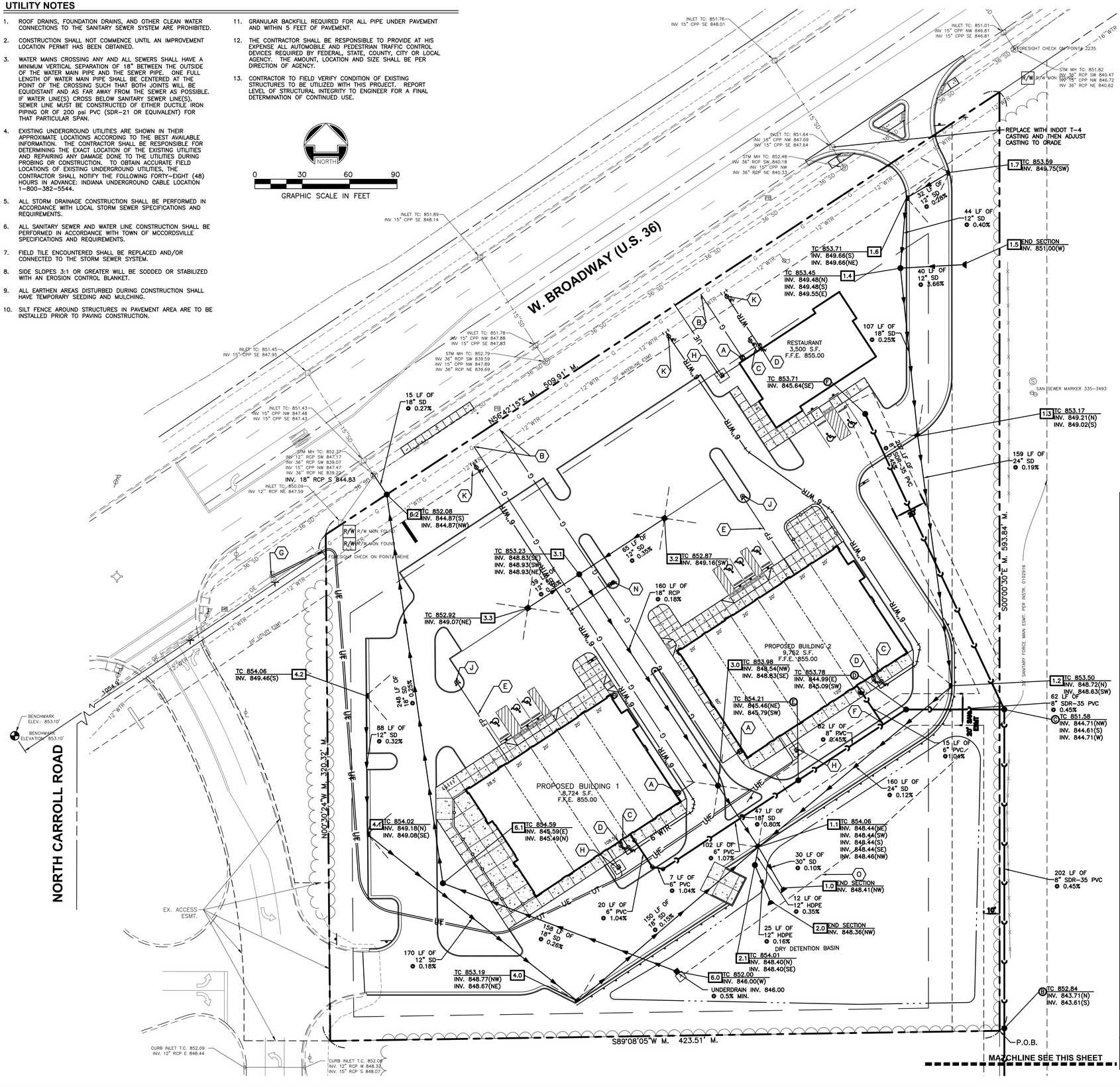
UTILITY NOTES

1. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
2. CONSTRUCTION SHALL NOT COMMENCE UNTIL AN IMPROVEMENT LOCATION PERMIT HAS BEEN OBTAINED.
3. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN PIPE AND THE SEWER PIPE. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF THE CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR AWAY FROM THE SEWER AS POSSIBLE. IF WATER LINE(S) CROSS BELOW SANITARY SEWER LINE(S), SEWER LINE MUST BE CONSTRUCTED OF EITHER DUCTILE IRON PIPING OR OF 200 psi PVC (SDR-21 OR EQUIVALENT) FOR THAT PARTICULAR SPAN.
4. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE TO THE UTILITIES DURING PROBING OR CONSTRUCTION. TO OBTAIN ACCURATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING FORTY-EIGHT (48) HOURS IN ADVANCE: INDIANA UNDERGROUND CABLE LOCATION 1-800-382-5544.
5. ALL STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STORM SEWER SPECIFICATIONS AND REQUIREMENTS.
6. ALL SANITARY SEWER AND WATER LINE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF MCCORDSVILLE SPECIFICATIONS AND REQUIREMENTS.
7. FIELD TILE ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM.
8. SIDE SLOPES 3:1 OR GREATER WILL BE SODDED OR STABILIZED WITH AN EROSION CONTROL BLANKET.
9. ALL EARTHEN AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHING.
10. SILT FENCE AROUND STRUCTURES IN PAVEMENT AREA ARE TO BE INSTALLED PRIOR TO PAVING CONSTRUCTION.
11. GRANULAR BACKFILL REQUIRED FOR ALL PIPE UNDER PAVEMENT AND WITHIN 5 FEET OF PAVEMENT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCY. THE AMOUNT, LOCATION AND SIZE SHALL BE PER DIRECTION OF AGENCY.
13. CONTRACTOR TO FIELD VERIFY CONDITION OF EXISTING STRUCTURES TO BE UTILIZED WITH THIS PROJECT. REPORT LEVEL OF STRUCTURAL INTEGRITY TO ENGINEER FOR A FINAL DETERMINATION OF CONTINUED USE.

NORTH

0 30 60 90

GRAPHIC SCALE IN FEET



LEGEND

EXISTING		PROPOSED
	STORM CURB INLET	
	STORM INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	SANITARY CLEANOUT	
	STORM STRUCTURE NUMBER	1
	SANITARY STRUCTURE NUMBER	100
SD	STORM SEWER	
	STORM UNDERDRAIN	
SAN	SANITARY SEWER	
WTR	WATER LINE	WTR
	FIRE HYDRANT	
	POST INDICATOR VALVE	PIV
	FIRE DEPARTMENT CONNECTION	
	WATER UTILITY MARKER	
WV	WATER VALVE	WV
G	GAS	G
	GAS METER	
	GAS VALVE	GV
OE	OVERHEAD ELECTRIC	
	UNDERGROUND ELECTRIC	UE
	TRANSFORMER	
	UNDERGROUND TELEPHONE	UT
	TRAFFIC CONTROL BOX	
	TRAFFIC PULL BOX	
	TRAFFIC SIGNAL	
	LIGHT POLE	
	POWER POLE	
	FLAG POLE	
	GUARD POST	
	SIGN	
	BENCHMARK	
	DECIDUOUS TREE	
	EVERGREEN TREE	
	DRAINAGE EASEMENT (D.E.)	
	BMP EASEMENT	
	SANITARY EASEMENT	

KEY NOTES

- (A) GAS METER
- (B) PROPOSED GAS SERVICE; COORDINATE WITH VECTREN ENERGY
- (C) PROPOSED 2" DOMESTIC WATER WITH RPZ BACKFLOW PREVENTER INSIDE BUILDING (SEE PLUMBING PLANS)
- (D) PROPOSED 6" DI CLASS 350 WATER LINE
- (E) 6" DI FIRE PROTECTION LINE
- (F) SANITARY SEWER LATERAL WYE CONNECTION TO 8" MAIN
- (G) COORDINATE PRIMARY ELECTRIC SERVICE WITH IPL
- (H) TRANSFORMER WITH PAD; COORDINATE WITH IPL
- (I) UNUSED
- (J) FIRE DEPARTMENT CONNECTION
- (K) 12"X12"X6" TAPPING SLEEVE AND VALVE
- (L) UNUSED
- (M) UNUSED
- (N) FIRE HYDRANT
- (O) 6" STORM UNDERDRAIN

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER INDIANA
PRELIMINARY NOT FOR CONSTRUCTION
2/21/19

REVISION

No.	DATE

PROJECT No: 78681

DATE 02/22/19
DES. JMC
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McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

UTILITY PLAN

SHEET NO.

C400

Indiana811 Know what's below. Call before you dig.

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SANITARY STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	T.C.*	INVERT	CASTING
A	Sanitary Manhole	851.79	8" = 842.50 (N) 8" = 842.40 (S)	R-1772-A
B	Sanitary Manhole	852.84	8" = 843.71 (N) 8" = 843.61 (S)	R-1772-A
C	Sanitary Manhole	851.58	8" = 844.71 (NW) 8" = 844.61 (S) 8" = 844.71 (W)	R-1772-A
D	Sanitary Manhole	853.78	8" = 844.99 (E) 8" = 845.09 (SW)	R-1772-A
E	Sanitary Manhole	854.21	8" = 845.46 (NE) 6" = 845.79 (SW)	R-1772-A
F	Sanitary Manhole	853.71	8" = 845.64 (SE)	R-1772-A

STORM STRUCTURE TABLE

STRUCTURE ID	DESCRIPTION	T.C.*	INVERT	CASTING
1.0	End Section		30" = 848.41 (NW)	———
1.1	MH TYPE "K"	854.06	18" = 848.44 (NE) 18" = 848.44 (SW) 12" = 848.44 (S) 30" = 848.44 (SE) 18" = 848.46 (NW)	R-3010
1.2	MH TYPE "C"	853.50	18" = 848.72 (N) 18" = 848.63 (SW)	R-3010
1.3	MH TYPE "J"	853.17	15" = 849.21 (N) 18" = 849.02 (S)	R-3010
1.4	MH TYPE "C"	853.45	12" = 849.48 (N) 15" = 849.48 (S) 12" = 849.55 (E)	R-4342
1.5	End Section		12" = 851.00 (W)	———
1.6	2' x 2' BOX INLET	853.71	12" = 849.66 (S) 12" = 849.66 (NE)	R-3010
1.7	2' x 2' BOX INLET	853.59	12" = 849.75 (SW)	R-3010
2.0	End Section		12" = 848.36 (NW)	———
2.1	AS-4	854.01	12" = 848.40 (N) 12" = 848.40 (SE)	———
3.0	MH TYPE "C"	853.98	18" = 848.54 (NW) 18" = 848.83 (SE)	R-1772-A
3.1	MH TYPE "C"	853.23	18" = 848.83 (SE) 12" = 848.93 (SW) 12" = 848.93 (NE)	R-1772-A
3.2	2' x 2' BOX INLET	852.87	12" = 849.16 (SW)	R-3405
3.3	2' x 2' BOX INLET	852.92	12" = 849.07 (NE)	R-3405
4.0	3' x 2' BOX INLET	853.19	12" = 848.77 (NW) 18" = 848.67 (NE)	R-3246
4.1	3' x 2' BOX INLET	854.02	12" = 849.18 (N) 12" = 849.08 (SE)	R-3246
4.2	2' x 2' BOX INLET	854.06	12" = 849.46 (S)	R-3010
6.0	OUTLET STRUCTURE	852.00	18" = 846.00 (W)	———
6.1	MH TYPE "C"	854.59	18" = 845.59 (E) 18" = 845.49 (N)	R-1772-A
6.2	MH TYPE "C"	852.08	18" = 844.87 (S) 18" = 844.87 (NW)	R-1772-A

* T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
2/22/19
SEAL

No.	DATE	REVISION

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WEST BROADWAY
McCORDSVILLE, INDIANA

STRUCTURE DATA TABLES

SHEET NO.
C401

Layout Tab Name: C401, Images: JRS_Stamp_022219.jpg: , Xrefs: 78681TBLK.dwg: 78681-p.dwg: 78681-x.dwg
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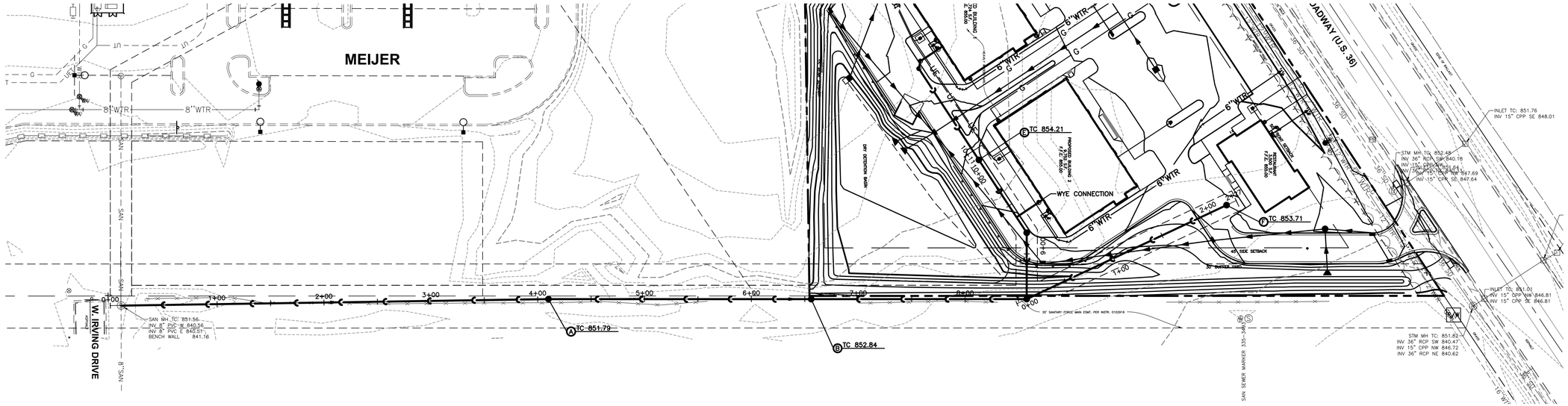
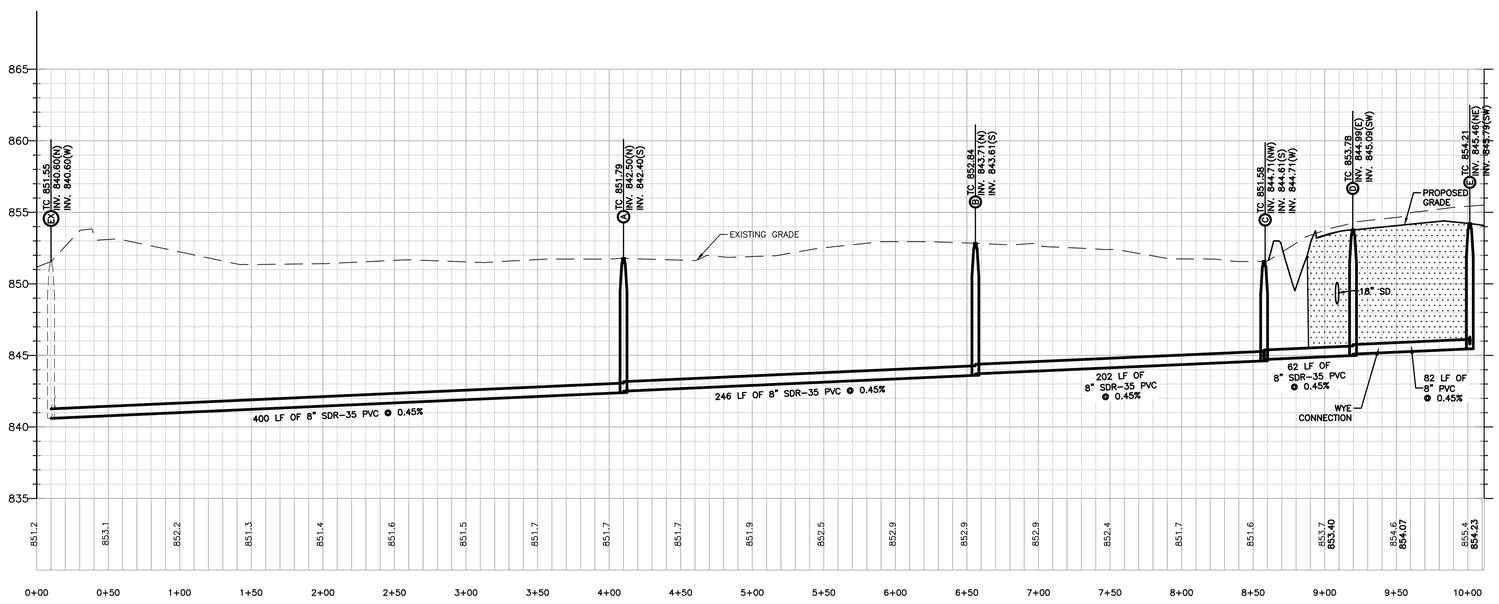
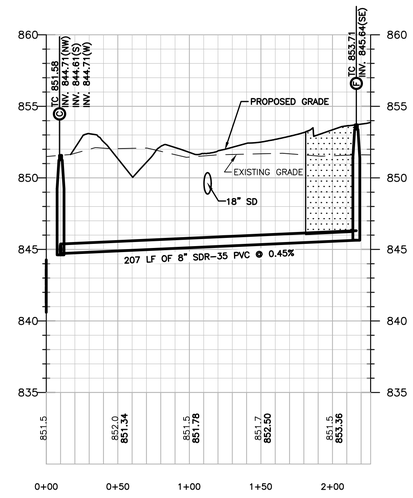


PLAN



PROFILE
STR. EX TO STR. D



PROFILE
STR. B TO STR. C

NOTES:

1.) MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER AND WATER LINE.
2.) FULL DEPTH GRANULAR BACKFILL PLACED IN 6" LIFTS SHALL BE USED FOR ALL PIPES CROSSING UNDER PAVEMENT OR WITHIN 5' OF BACK OF CURB AND SHALL BE COMPACTED TO 95% DRY DENSITY.

DENOTES GRANULAR BACKFILL

GRAPHIC SCALES IN FEET
0 50 100 150
5 10 15

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

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
2/22/19

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JMC
DR. JMC
CKD. JRS

WOOLPERT
ARCHITECTURE | ENGINEERING | ENVIRONMENTAL
333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
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McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

SANITARY SEWER PLAN & PROFILES

SHEET NO.
C402

Layout Tab Name: C402, Images: JRS_Stamp_022219.jpg; , Xrefs: 78681-x.dwg; 78681-p.dwg; 78681TBLK.dwg; 75337-p.dwg; PPG BLDG.dwg; 75337-x.dwg
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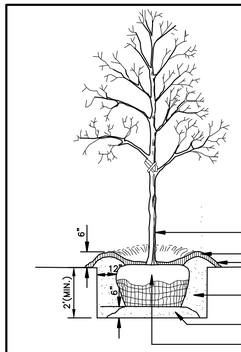
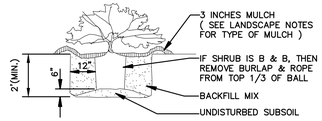


NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

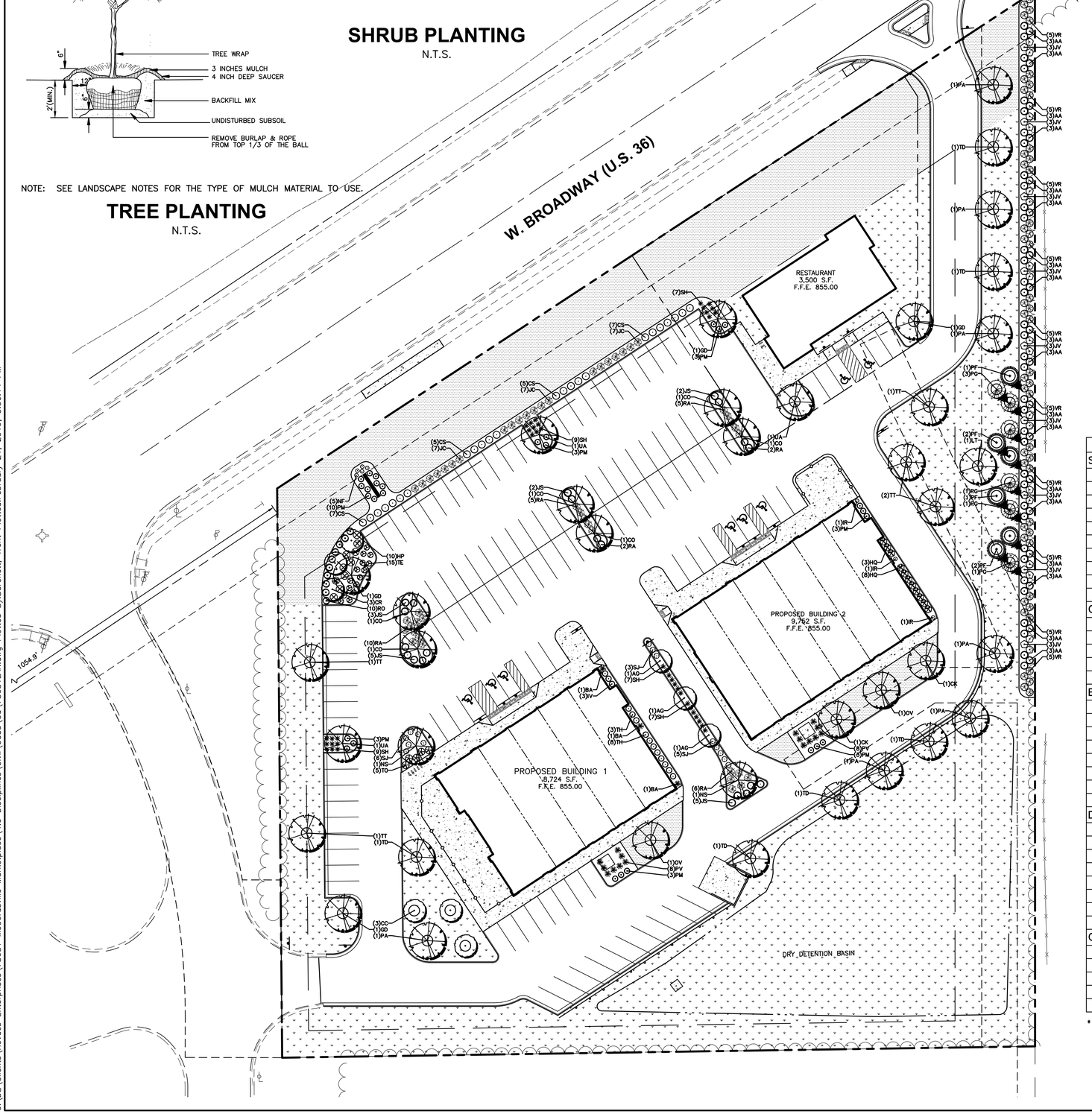
TREE PLANTING

N.T.S.



SHRUB PLANTING

N.T.S.



PERMANENT SOD BLEND

90% FINE LEAF FESCUE (FESTUCA ARUNDINACEA)
REBEL, REBEL II, WRANGLER, BONANZA, MOJAVE OR EQUAL
10% KENTUCKY BLUEGRASS (POA PRATENSIS)
MIDNIGHT, RUGBY II, MIDIRON VARIETIES OR EQUAL
98% PURITY AND 85% GERMINATION
95% WEED FREE

SOD AREA (21,400 SF)

PERMANENT SEED BLEND

6 LBS PER 1000 SF
90% FINE LEAF FESCUE (FESTUCA ARUNDINACEA)
REBEL, REBEL II, WRANGLER, BONANZA, MOJAVE OR EQUAL
10% KENTUCKY BLUEGRASS (POA PRATENSIS)
MIDNIGHT, RUGBY II, MIDIRON VARIETIES OR EQUAL
98% PURITY AND 85% GERMINATION
95% WEED FREE
8 LBS 12-12-12 FERTILIZER PER 1000 SF
1 1/2 BALES OF STRAW PER 1000 SF

SEED AREA (59,000 SF)

NORTH

0 30 60 90

GRAPHIC SCALE IN FEET

LANDSCAPE NOTES:

1. LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES, PRIOR TO DIGGING, IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
2. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUB GRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOPSOIL PROVIDED BY GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS. WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR AND/OR CONSTRUCTION MANAGER.
3. GENERAL AND LANDSCAPE CONTRACTOR ARE RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION. GENERAL CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY SITE WORK.
4. ALL SHRUB AND GROUNDCOVER BEDS TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF CLEAN SHREDDED HARDWOOD MULCH.
5. PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH AND 6-12 INCHES DEEPER THAN THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. AMEND BACKFILL WITH TOPSOIL MIX. BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
6. TOPSOIL MIX TO BE 4 PARTS SCREENED TOPSOIL AND 1 PART ORGANIC MATERIAL (i.e. NATURE'S HELPER OR PRO MIX).
7. EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
8. SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS. LIME AND FERTILIZER TO BE DISTRIBUTED PRIOR TO LAYING SOD. ALL DISTURBED AREAS (INCLUDING RIGHT-OF-WAYS) NOT RECEIVING PLANTINGS TO RECEIVE 4 INCHES OF TOPSOIL AND SODDED.
9. SOD TO BE DELIVERED FRESH (CUT LESS THAN 24 HOURS PRIOR TO ARRIVING ON SITE), LAID IMMEDIATELY, ROLLED AND WATERED THOROUGHLY WITHIN ONE HOUR OF INSTALLATION.
10. ALL CHANGES TO DESIGN AND/OR PLANT SUBSTITUTIONS TO BE AUTHORIZED BY LANDSCAPE ARCHITECT.
11. ALL PARKING ISLANDS TO BE BERMED UP 6"-10" WITH CLEAN FRIABLE TOPSOIL PRIOR TO PLANTING.
12. ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE AMERICAN STANDARD FOR NURSERY STOCK, AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
13. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
14. ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON-VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH THE COST OF THE REPLACEMENT INCLUDED IN THE BID OR PROPOSAL PRICE.
15. STAKE ALL TREES.
16. WATER THOROUGHLY TWICE IN THE FIRST 24 HOURS AND APPLY MULCH IMMEDIATELY.
17. RESTAURANT FOUNDATION PLANTINGS TO BE PROVIDED AT A LATER DATE.

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS
SHADE TREE						
CO	6	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
CK	2	Cladrastis kentukea	Yellowwood	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
GD	4	Gymnocladus dioica 'Espresso'	Fruitless KY Coffeetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
LT	1	Liriodendron tulipifera	Tuliptree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
NS	2	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
OV	2	Ostrya virginiana	Hop Hornbeam	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
PA	7	Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
TD	6	Taxodium distichum	Bald Cypress	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
TT	5	Tilia tomentosa	Silver Linden	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
UA	3	Ulmus americana 'Valley Forge'	Valley Forge Elm	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
ORNAMENTAL / EVERGREEN TREE						
AG	3	Amelanchier x grandiflora 'Autumn Brilliance'	Apple Serviceberry	B&B	1.5" cal. 8'ht. 4'wd.	Full, well shaped, single-stem
CC	3	Cercis canadensis	Eastern Redbud	B&B	1.5" cal. 8'ht. 4'wd.	Full, well shaped, single-stem
CR	3	Crataegus viridis 'Winter King'	Winter King Hawthorn	B&B	1.5" cal. 8'ht. 4'wd.	Full, well shaped, single-stem
PG	6	Picea glauca 'Densata'	Black Hills Spruce	B&B	8'ht. x 4'wd.	Full to ground, well shaped
PF	6	Pinus flexilis	Limber Pine	B&B	8'ht. x 4'wd.	Full to ground, well shaped
EVERGREEN SHRUB						
JC	21	Juniperus chinensis 'Sea Green'	Sea Green Juniper	#5 cont.	24"ht. x 24"wd.	Full, vigorous
JS	21	Juniperus chinensis sargentii 'Viridis'	Green Sargent Juniper	#3 cont.	18"ht. x 18"wd.	Full, vigorous
JV	27	Juniperus virginiana	Eastern Red Cedar	#5 cont.	24"ht. x 24"wd.	Full, vigorous
PM	28	Pinus mugo 'Slowmound'	Dwarf Mugo Pine	#3 cont.	18"ht. x 18"wd.	Full, vigorous
TE	15	Taxus x media 'Everlow'	Everlow Yew	#3 cont.	18"ht. x 18"wd.	Full, vigorous
TH	11	Taxus x media 'Hicksii'	Hicks Yew	#5 cont.	24"ht. x 18"wd.	Full, vigorous
TO	5	Thuja occidentalis 'Woodwardii'	Woodward Globe Arborvitea	#5 cont.	24"ht. x 24"wd.	Full, vigorous
VR	50	Viburnum rhytidophyllum	Leatherleaf Viburnum	#5 cont.	24"ht. x 24"wd.	Full, vigorous
DECIDUOUS SHRUB						
AA	54	Aronia arbutifolia 'Brilliantissima'	Brilliant Red Chokeberry	#5 cont.	24"ht. x 24"wd.	Full, vigorous
CS	24	Cornus sericea 'Isanti'	Red Twig Dogwood	#5 cont.	24"ht. x 24"wd.	Full, vigorous
HP	10	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	#5 cont.	24"ht. x 24"wd.	Full, vigorous
HQ	11	Hydrangea quercifolia 'Munchkin'	Munchkin Oakleaf Hydrangea	#5 cont.	24"ht. x 24"wd.	Full, vigorous
IV	3	Itea virginica 'Little Henry'	Little Henry Sweetspire	#3 cont.	18"ht. x 18"wd.	Full, vigorous
RA	26	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#3 cont.	18"ht. x 18"wd.	Full, vigorous
RO	10	Rosa x 'Noschnee'	White Carpet Rose	#3 cont.	18"ht. x 18"wd.	Full, vigorous
SJ	14	Spiraea japonica 'Shirobana'	Shirobana Spirea	#3 cont.	18"ht. x 18"wd.	Full, vigorous
ORNAMENTAL GRASS / PERENNIAL						
BA	3	Baptisia australis	False Indigo	#1 cont.		
IR	3	Iris sibirica 'Caesar's Brother'	Caesar's Brother Siberian Iris	#1 cont.		
NF	5	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	#1 cont.		
PV	18	Panicum virgatum 'Shenandoah'	Shenandoah Red Switchgrass	#2 cont.		Full, vigorous
SH	39	Sporobolus heterolepis	Prairie Dropseed	#1 cont.		

* QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OF PLANTS ON LANDSCAPE PLAN.

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

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
2/22/19

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES.
DR.
CKD.

WOOLPERT
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McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

LANDSCAPE PLAN

SHEET NO.
C500

Layout Tab Name: C500, Images: JRS_Stamp_022219.jpg: , Xrefs: 78681TBLK.dwg; 78681-x.dwg; 78681-p.dwg
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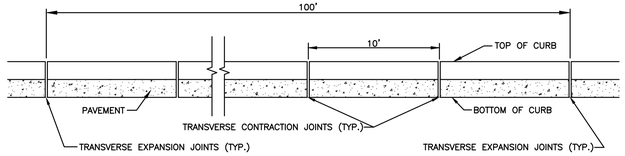
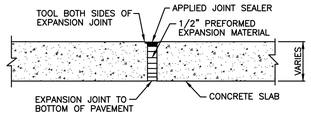
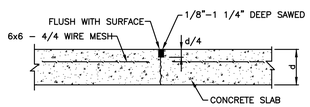


NOTE:
WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY 1/2" ROUND DEFORMED BARS AT ABOUT 3 FOOT INTERVALS. IF NO CONCRETE PAVEMENT IS BEING BUILT, AT THE TIME, THE CURB IS CONSTRUCTED. EXPANSION JOINTS SHOULD BE PLACED AT THE ENDS OF ALL RETURNS AND AT INTERVALS NOT TO EXCEED 100 FEET. CONTRACTION JOINTS SHOULD BE INSTALLED AT 10 FOOT SPACING.

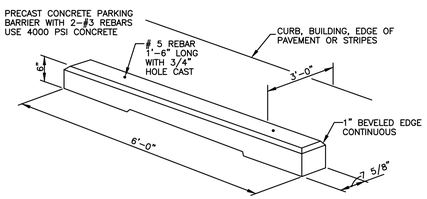
CURB JOINT DETAIL
NO SCALE



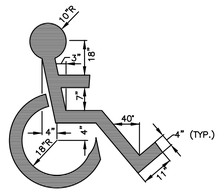
EXPANSION JOINT DETAIL
NO SCALE



CONTROL JOINT
NO SCALE

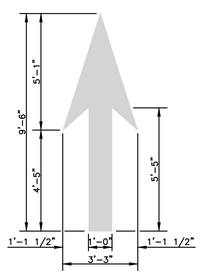


PRECAST CONCRETE WHEEL STOP
NO SCALE



NOTE: SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL. SYMBOLS ARE REQUIRED TO CONTRAST WITH BACKGROUND. (COLOR NO. 105090 IN FEDERAL STANDARDS 595a) DOUBLE COAT. (TYP.) SYMBOL SHALL MEET INDIANA ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT CRITERIA.

ADA PAVEMENT SYMBOL
NO SCALE



TRAFFIC THRU ARROW
NO SCALE

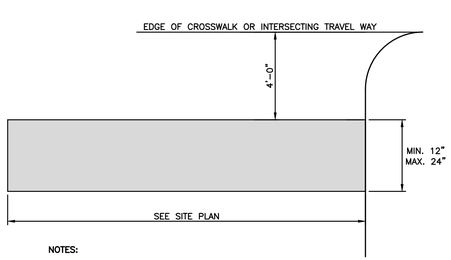
R1-5a
24" x 30"

"YIELD TO PEDESTRIANS" SIGN
NO SCALE

R5-1
30" x 30"

COLOR:
SYMBOL – RED (RETROREFLECTIVE)
LEGEND & BACKGROUND – WHITE (RETROREFLECTIVE)

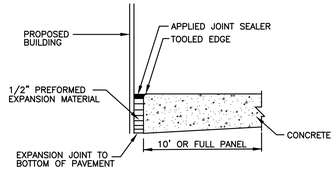
"DO NOT ENTER" SIGN
NO SCALE



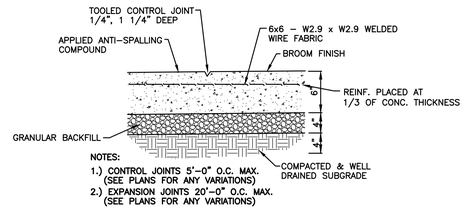
NOTES:
1. THIS MARKING IS TO BE PAINTED RETROFLECTIVE WHITE.

STOP BAR
NO SCALE

"ONLY" PAVEMENT MARKING
NO SCALE

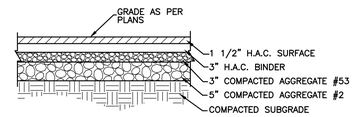


EXPANSION JOINT AT BUILDING DETAIL
NO SCALE



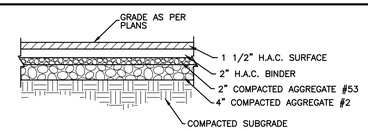
NOTES:
1.) CONTROL JOINTS 5'-0" O.C. MAX. (SEE PLANS FOR ANY VARIATIONS)
2.) EXPANSION JOINTS 20'-0" O.C. MAX. (SEE PLANS FOR ANY VARIATIONS)

6" CONCRETE PAVEMENT DETAIL
NO SCALE

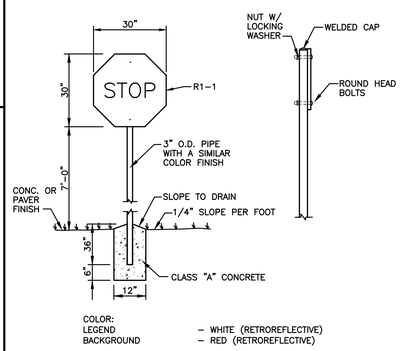


NOTE: PAVEMENT SECTION BASED ON TYPICAL SITE CONDITIONS. ANY AREAS OF BAD SOILS MUST BE REMOVED AND RECOMPACTED TO 95% MODIFIED PROCTOR.

HEAVY DUTY TYPICAL PAVEMENT SECTION
NO SCALE

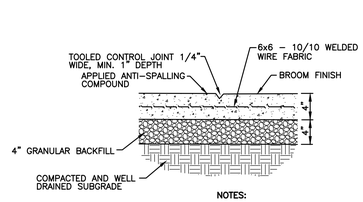


REGULAR DUTY TYPICAL PAVEMENT SECTION
NO SCALE



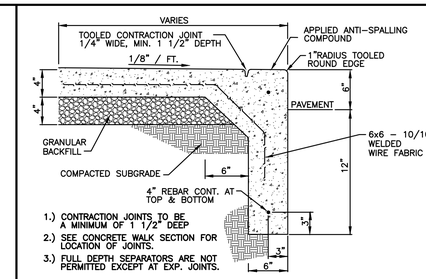
COLOR:
LEGEND – WHITE (RETROREFLECTIVE)
BACKGROUND – RED (RETROREFLECTIVE)

STOP SIGN DETAIL
NO SCALE



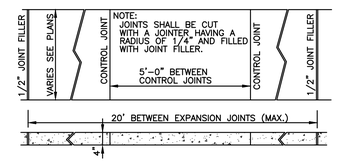
NOTES:
1.) CONTROL JOINTS 5'-0" O.C. MAX. (SEE PLANS FOR ANY VARIATIONS)
2.) EXPANSION JOINTS 20'-0" O.C. MAX. (SEE PLANS FOR ANY VARIATIONS)

CONCRETE WALK DETAIL
NO SCALE

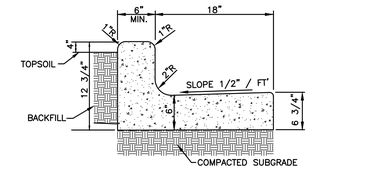


1.) CONTRACTION JOINTS TO BE A MINIMUM OF 1 1/2" DEEP
2.) SEE CONCRETE WALK SECTION FOR LOCATION OF JOINTS.
3.) FULL DEPTH SEPARATORS ARE NOT PERMITTED EXCEPT AT EXP. JOINTS.

INTEGRAL WALK AND CURB
NO SCALE

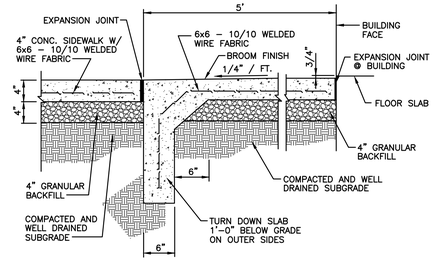


CONCRETE WALK SECTION
NO SCALE

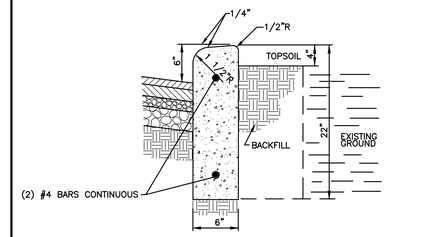


NOTES:
1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 20' MAX. TO A DEPTH OF 1 1/2".
2.) FULL DEPTH SEPARATORS ARE NOT PERMITTED EXCEPT AT EXPANSION JOINTS.
3.) EXPANSION JOINTS TO BE PLACED @ 100' MAXIMUM.

COMBINED CURB & GUTTER (TYPE II)
NO SCALE

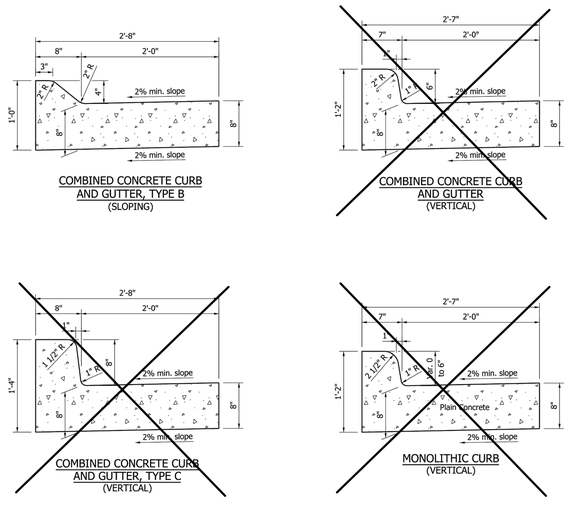


CONCRETE STOOP DETAIL (ADJACENT TO SIDEWALK)
NO SCALE



NOTES:
1.) CONTRACTION JOINTS SHALL BE PLACED EVERY 20' MAX. TO A DEPTH OF 1 1/2".
2.) FULL DEPTH SEPARATORS ARE NOT PERMITTED EXCEPT AT EXPANSION JOINTS.
3.) EXPANSION JOINTS TO BE PLACED @ 100' MAXIMUM.

6" STRAIGHT CURB
NO SCALE



INDIANA DEPARTMENT OF TRANSPORTATION

COMBINED CONCRETE CURB AND GUTTER

SEPTEMBER 2011

STANDARD DRAWING NO. E 605-CCCG-01

DESIGN STANDARDS ENGINEER	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER	09/01/11 DATE
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER	09/01/11 DATE

PRELIMINARY NOT FOR CONSTRUCTION

No.	DATE	REVISION

PROJECT No: 78681
DATE 02/22/19
DES. JRS
DR. PJD
CKD. DJK

333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
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WOOLPERT
ARCHITECTURE | ENGINEERING | GEOSPATIAL

McCORDSVILLE MARKETPLACE
WEST BROADWAY
McCORDSVILLE, INDIANA

DETAILS

SHEET NO.
C600

Layout Tab Name: C600, Images: JRS_Stamp_022219.jpg: , Xrefs: 78681TBLK.dwg
Last Saved By:burchett, 2/21/2019 3:42:38 PM
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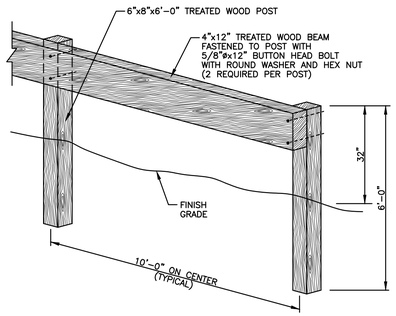
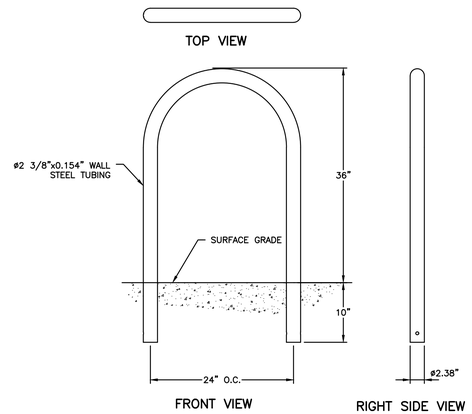


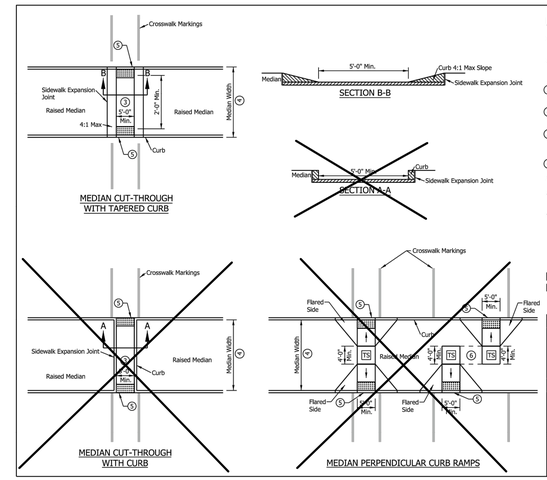
WOOD GUARDRAIL DETAIL

NO SCALE



"INVERTED U" BICYCLE RACK DETAIL

NO SCALE



NOTES:

1. The minimum width of a median cut-through and median perpendicular curb ramp shall be 5 ft.
2. Where in-line or offset perpendicular curb ramps are used within a median, the turning space shall have a minimum clear dimension of 4 ft x 5 ft.
3. Where a median cut through is used the running slope shall be 2.00% maximum.
4. Where median width is less than 6 ft, detectable warning surfaces shall not be placed.
5. The bottom edge of the median cut-through or median perpendicular curb ramp and the top of curb shall be flush with the edge of adjacent pavement gutter line.
6. Walkable Surface. The cross slope shall be 2.00% maximum.
7. See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
8. See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
9. See Standard Drawing E 604-CCSJ-01 for sidewalk expansion joint details.

LEGEND:

- Ramp
- Detectable Warning Surface
- TS Turning Space

INDIANA DEPARTMENT OF TRANSPORTATION

MEDIAN CUT-THROUGH AND MEDIAN PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

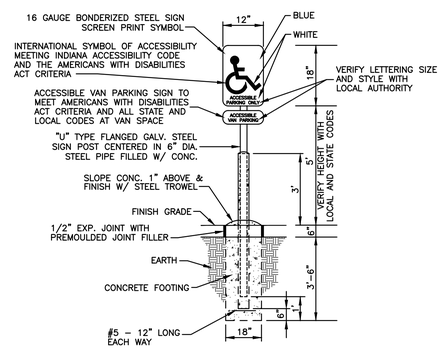
SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-11

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

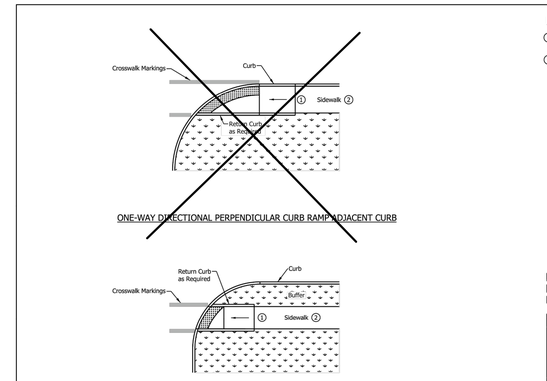
/s/ Elizabeth W. Phillips 03/15/16 — DESIGN STANDARDS ENGINEER — DATE

/s/ Mark A. Miller 03/18/16 — CHIEF ENGINEER — DATE



ADA PARKING SIGN

NO SCALE



NOTES:

1. A turning space is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
2. Where there is no buffer between the sidewalk and curb the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series E 604-SDWK for sidewalk details.

LEGEND:

- Buffer or Other Non-Walkable Surface
- Ramp
- Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION

ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP TYPICAL PLACEMENT

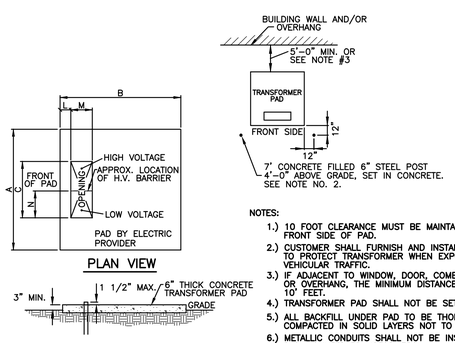
SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-05

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/15/16 — DESIGN STANDARDS ENGINEER — DATE

/s/ Mark A. Miller 03/18/16 — CHIEF ENGINEER — DATE



NOTES:

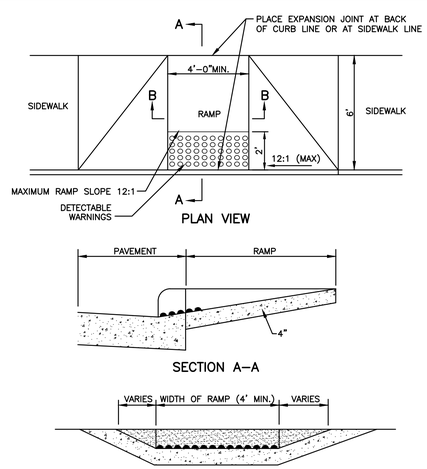
1.) 10 FOOT CLEARANCE MUST BE MAINTAINED ON FRONT SIDE OF PAD.
2.) CUSTOMER SHALL FURNISH AND INSTALL POSTS TO PROTECT TRANSFORMER WHEN EXPOSED TO VEHICULAR TRAFFIC.
3.) IF ADJACENT TO WINDOW, DOOR, COMBUSTIBLE WALL OR OVERHANG, THE MINIMUM DISTANCE SHALL BE 10' FEET.
4.) TRANSFORMER PAD SHALL NOT BE SET ON PAVEMENT.
5.) ALL BACKFILL UNDER PAD TO BE THOROUGHLY COMPACTED IN SOLID LAYERS NOT TO EXCEED 6".
6.) METALLIC CONDUITS SHALL NOT BE INSTALLED IN PAD MOUNTED TRANSFORMERS.
7.) NO CUSTOMERS GROUNDING GRIDS OR GROUNDING ELECTRODE CONDUCTORS SHALL BE CONNECTED AT PAD MOUNTED TRANSFORMER LOCATIONS.
8.) MAXIMUM - 9 CONDUITS, ONE CIRCUIT PER CONDUIT.
9.) THE TRANSFORMER SHALL BE READILY ACCESSIBLE TO ELECTRIC UTILITY COMPANY.

STOCK NO.	KVA	WT.	A	B	C	D	L	M	N	KVA
1703-506	150-300	5800	75	80	44	15 1/2	9	15	19 1/2	150-300
1703-507	1703-507	10,100	84	84	44	20	9	15	19 1/2	500-1000
1703-508	1500	12,600	84	84	48	18	9	17	23 1/2	1500

ALL DIMENSIONS ARE IN INCHES

CONCRETE PAD FOR THREE PHASE TRANSFORMER 150-1500 KVA

NO SCALE

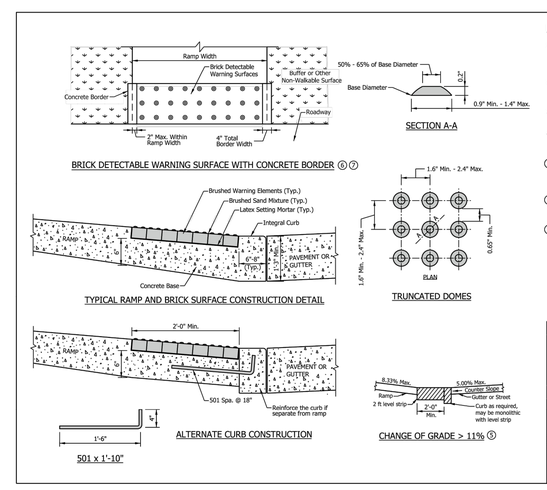


NOTE: DETECTABLE WARNINGS ON WALKING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

ADA RAMP DETAIL

NO SCALE



NOTES:

1. Detectable warning surface shall consist of truncated domes and shall be aligned in a square or radial grid pattern. Where truncated domes are arrayed radially, they may differ in diameter and center-to-center spacing within the ranges specified.
2. The detectable warning surface shall be manufactured to fit the radii. Field cutting shall not alter the truncated dome spacing between the adjacent panels outside of the allowable range.
3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. Where the algebraic difference between the running slope and the counter slope exceeds 11%, a 2-ft minimum level strip should be provided at the bottom of the ramp.
6. Where concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not exceed 2 in. within the ramp width.
7. Where forming other than a concrete border is used, the edge restraint shall not encroach upon the ramp width.

INDIANA DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING SURFACE DETAILS

SEPTEMBER 2016

STANDARD DRAWING NO. E 604-SWCR-14

ELIZABETH W. PHILLIPS REGISTERED No. 10200124 STATE OF INDIANA PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/15/16 — DESIGN STANDARDS ENGINEER — DATE

/s/ Mark A. Miller 03/18/16 — CHIEF ENGINEER — DATE

JONATHAN R. SHEIDLER REGISTERED PROFESSIONAL ENGINEER INDIANA

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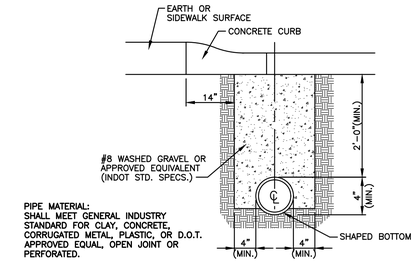
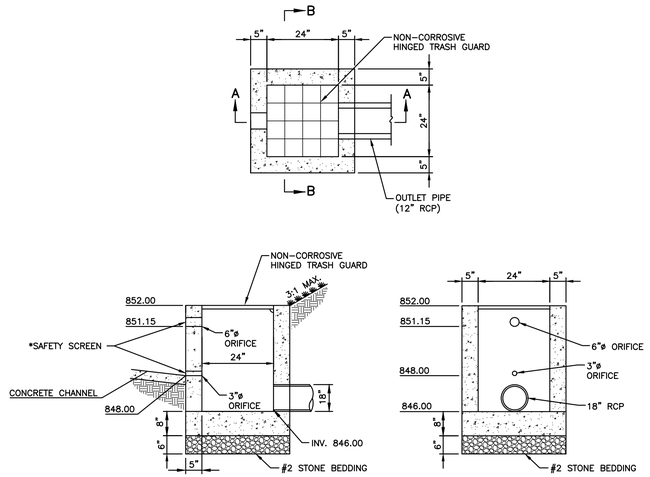


PIPE MATERIAL:
SHALL MEET GENERAL INDUSTRY STANDARD FOR CLAY, CONCRETE, CORRUGATED METAL, PLASTIC, OR D.O.T. APPROVED EQUAL, OPEN JOINT OR PERFORATED.

INSTALLATION REQUIRED:
BOTH SIDES OF ALL PAVEMENT, UNLESS WAIVED IN WRITING BY INDIANAPOLIS DEPARTMENT OF TRANSPORTATION.

PIPE UNDERDRAIN AT STRUCTURES
(TYPICAL INSTALLATIONS)
NO SCALE



SECTION A–A

SECTION B–B

NOTE: CONCRETE SHALL BE PRECAST.

*SAFETY SCREENS HAVING A MAXIMUM OPENING OF 4" SHALL BE PROVIDED FOR PIPE OPENINGS IN ACCORDANCE WITH MCCORDSVILLE STANDARDS.

STRUCTURE 6.0
POND OUTLET DETAIL
NO SCALE

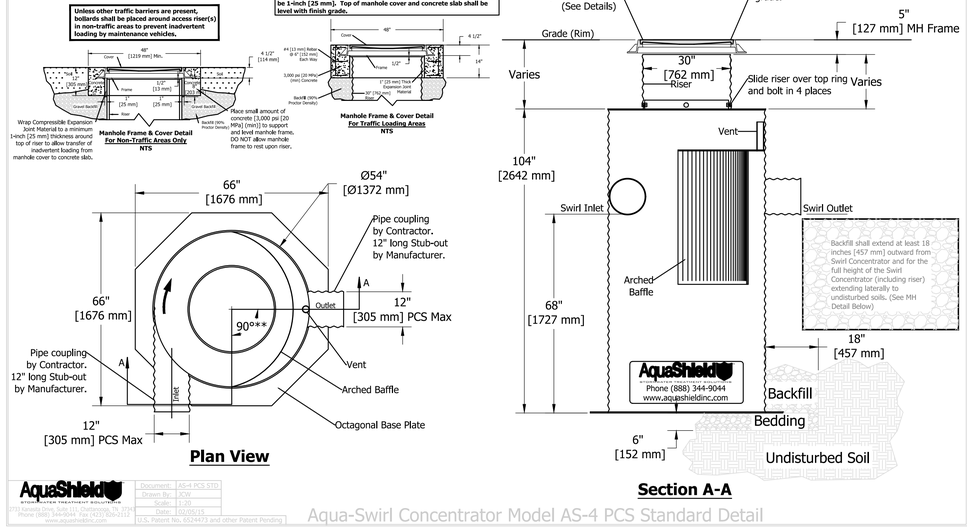
Aqua-Swirl Polymer Coated Steel (PCS) Stormwater Treatment System

If traffic loading (HS-25) is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1-inch [25 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover over reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.

Note: AS an alternative, 42-inch OD, HS-25 rated precast concrete rings may be substituted. 14-inch thickness must be maintained.

*** Please see accompanied Aqua-Swirl specification notes.**
*** See Site Plan for actual system orientation.**
**** Orientation may vary from 90°, 180°, or custom angles to meet site conditions.**

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.



Plan View

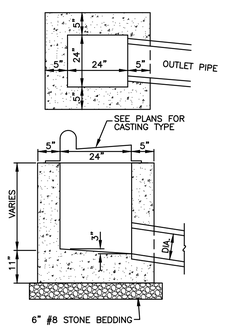
Section A-A

AquaShield STORMWATER TREATMENT SOLUTIONS
Phone (888) 344-9044 Fax (317) 706-1317
www.aquashieldinc.com

Document:	AS-4 PCS STD
Drawn By:	JCW
Scale:	1:20
Date:	02/05/15

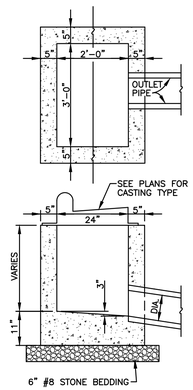
U.S. Patent No. 6524473 and other Patent Pending

Aqua-Swirl Concentrator Model AS-4 PCS Standard Detail



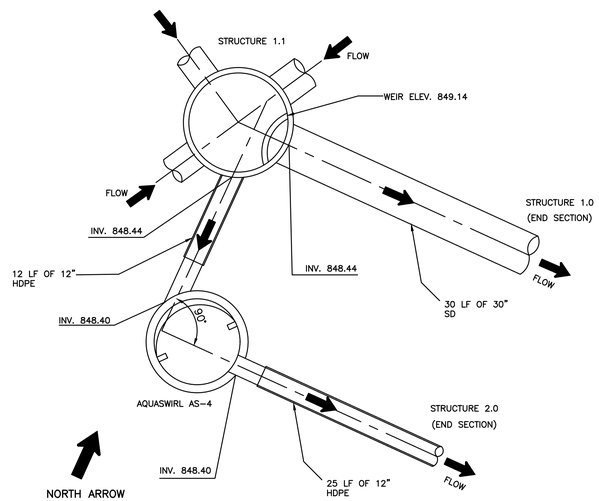
NOTE: 5" CONC. PRECAST OR POURED IN PLACE

2'X2' BOX INLET (TYPICAL)
(12" TO 18" PIPES)
NO SCALE

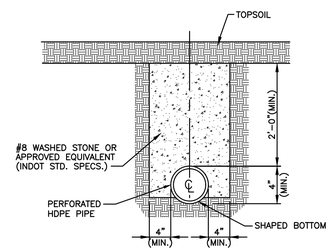


NOTE: 5" CONC. PRECAST OR POURED IN PLACE

2'x3' BOX INLET
NO SCALE

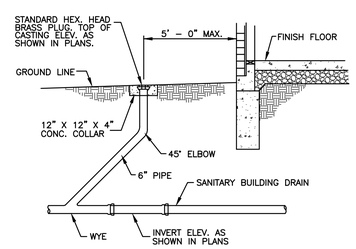


AQUASWIRL EAST CONCENTRATOR DETAIL
NO SCALE

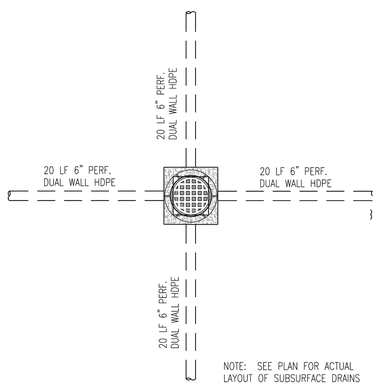


NOTE:
UNDERDRAIN TO BE PLACED @ 0.5% SLOPE MINIMUM

PIPE UNDERDRAIN AT DETENTION POND OUTLET
(TYPICAL INSTALLATIONS)
NO SCALE



STORM CLEAN - OUT
NO SCALE



PIPE UNDERDRAIN AT STRUCTURES
NO SCALE

JONATHAN R. SHECKLER REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY NOT FOR CONSTRUCTION
STATE OF INDIANA
4/22/19
SEAL

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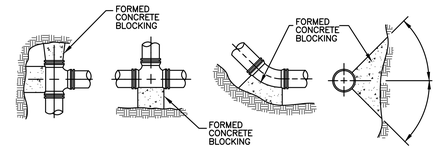
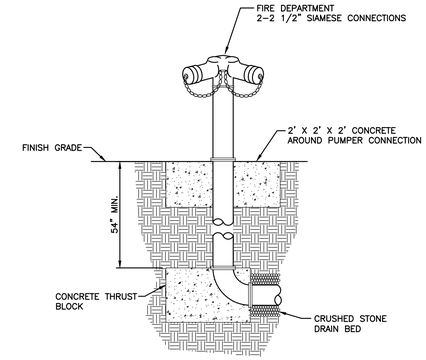


AREA OF CONCRETE IN CONTACT WITH UNDISTURBED EARTH.
AREA IN SQUARE FEET REQUIRED FOR CONCRETE THRUST BLOCKING

SIZE	TEE & PLUG	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	6.5	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.5	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0
14"	19.0	27.0	14.0	7.5	4.0
16"	25.0	35.0	19.0	10.0	5.0
18"	31.5	44.5	24.0	12.5	6.5
20"	38.0	54.5	29.5	15.0	7.5
24"	55.5	78.5	42.5	22.0	11.0
30"	86.5	122.0	66.0	34.0	17.0
36"	124.0	175.5	95.0	48.0	24.5
42"	168.0	237.0	128.5	65.5	33.0

TYPICAL THRUST BLOCKING DETAILS

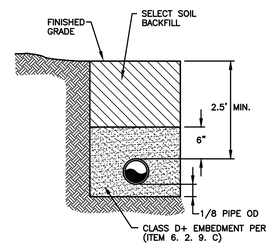
NO SCALE



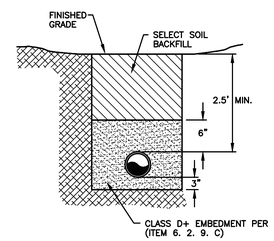
NOTE: RODDING AND/OR THRUST BLOCKS FOR MECHANICAL JOINT PIPE AS REQUIRED BY LOCAL AUTHORITY

FIRE DEPARTMENT CONNECTION

NO SCALE



NORMAL BACKFILL



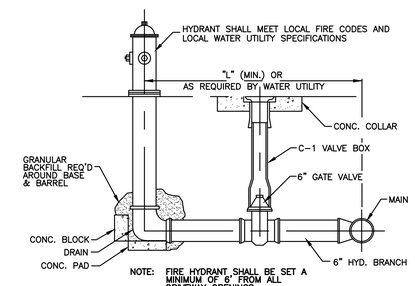
BACKFILL IN ROCK

GENERAL NOTES

1. ROCK IN SELECTED BACKFILL SHALL BE LIMITED TO 6" MAXIMUM DIMENSION.
2. COMPACT BACKFILL PER ITEM 6.2.9.b WATER FLOODING IS PERMITTED IN NON TRAFFIC BEARING AREAS IF UNIFORM DENSITY IS ACHIEVED.
3. FINISH GRADE IS TO OF PAVEMENT AT STREET CROSSINGS. MINIMUM DEPTH (2.5') SHALL BE MEASURED FROM TOP OF NEAREST CURB ELEVATION FOR ALL UNPAVED AREAS.
4. SAND BEDDING SHALL HAVE NO MORE THAN 15% PASSING #200 SIEVE AND A PLASTICITY INDEX LESS THAN 5.

WATERLINE BEDDING AND BACKFILL

NO SCALE

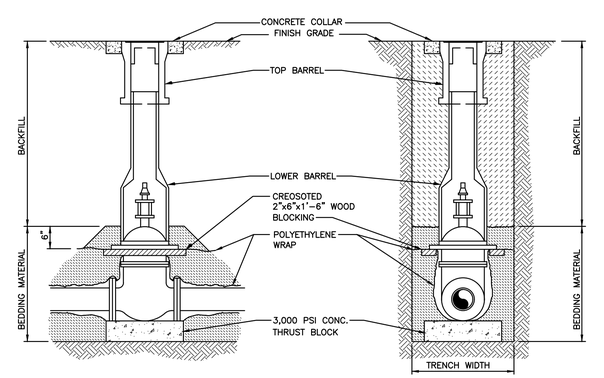


NOTE: FIRE HYDRANT SHALL BE SET A MINIMUM OF 6' FROM ALL DRIVEWAY OPENINGS

MAIN LINE	DIMENSION "L" (MINIMUM)
6"	35"
8"	36"
12"	39"
16"	42"

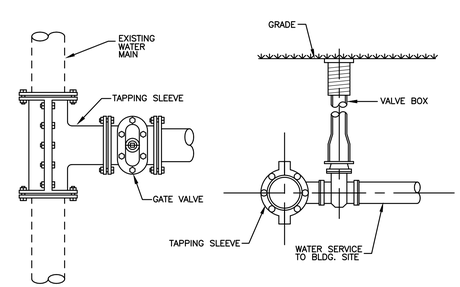
FIRE HYDRANT ASSEMBLY

NO SCALE



GATE VALVE BOX SETTING

NO SCALE



WATER MAIN CONNECTION DETAIL

NO SCALE

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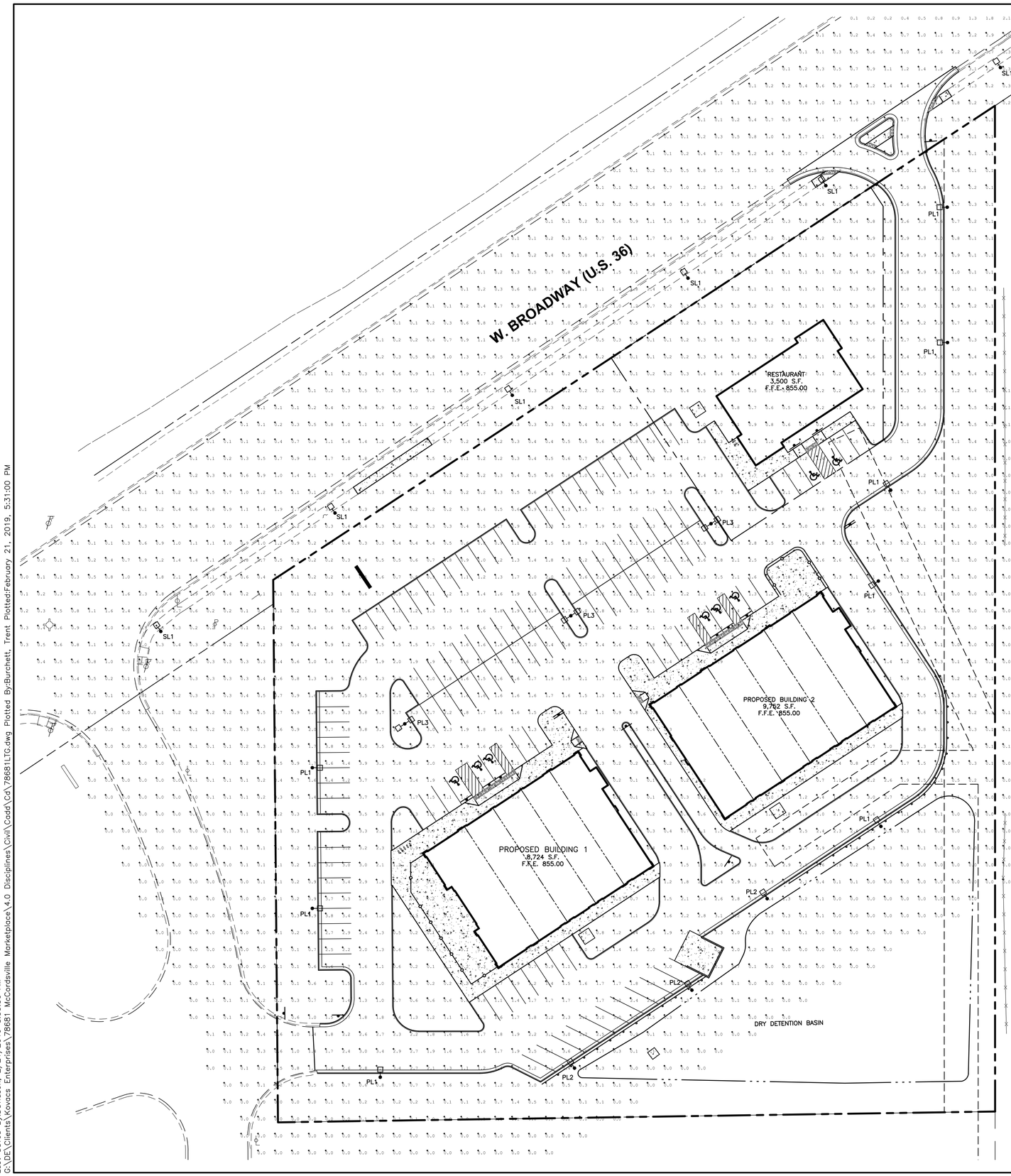


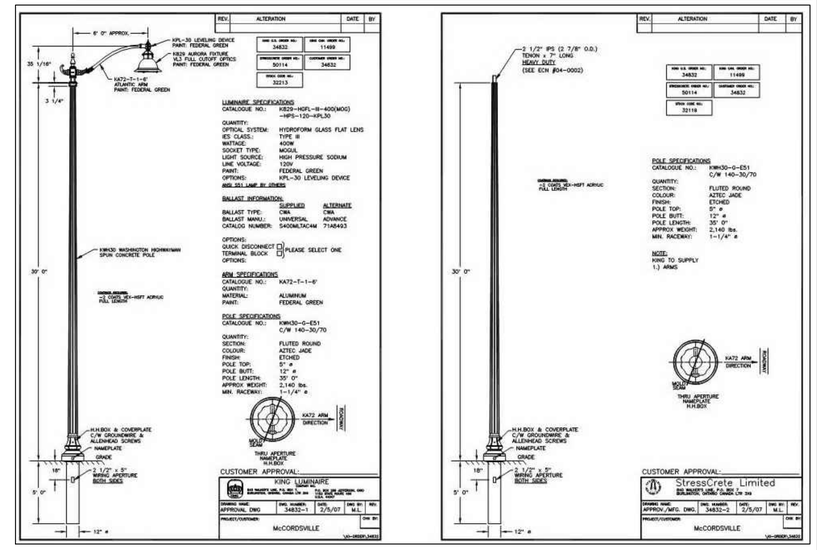
LUMINAIRE LEGEND

MARK	DESCRIPTION	MANUF. / CATALOG NO.	LAMPS	VOLTAGE	REMARKS	QUANTITY
PL1	ARM MOUNT TYPE III DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-3MB-24-E-UH-WH-700; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q300-D1-WH-HH-AB-FBC	LED 15,037 LUMENS, 136W	TBD	30'-0" STEEL POLE, NOTE 1, 2	17
PL2	ARM MOUNT TYPE IV DISTRIBUTION LED FIXTURE AND POLE	FIXTURE: CREE ARE-EHO-4MB-24-E-UH-WH-700; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500Q300-D1-WH-HH-AB-FBC	LED 14,784 LUMENS, 136W	TBD	30'-0" STEEL POLE, NOTE 1, 2	3
PL3	DUAL ARM MOUNT TYPE IV WIDE DISTRIBUTION LED FIXTURES AND POLE	FIXTURE: (2)CREE ARE-EHO-3M-24-E-UH-WH-700; ARM/ADAPTER AS REQUIRED POLE: VALMONT DS330-500W300-D2-WH-HH-AB-FBC	(2) LED 14,511 LUMENS 272W	TBD	30'-0" STEEL POLE, NOTE 1, 2	4
SL1	ARM MOUNT TYPE III DISTRIBUTION DECORATIVE LED FIXTURE AND POLE	FIXTURE: KING LUMINAIRE K829-P4FL-III-150(SSL)-8084-480V-KPL30-3K-GN; POLE: STRESSCRETE KWH30-G-E51 ARM: STRESSCRETE KA72-T-1-6'	LED 18,000 LUMENS, 150W	480	30'-0" STEEL POLE, NOTE 3	8

UNO = UNLESS NOTED OTHERWISE

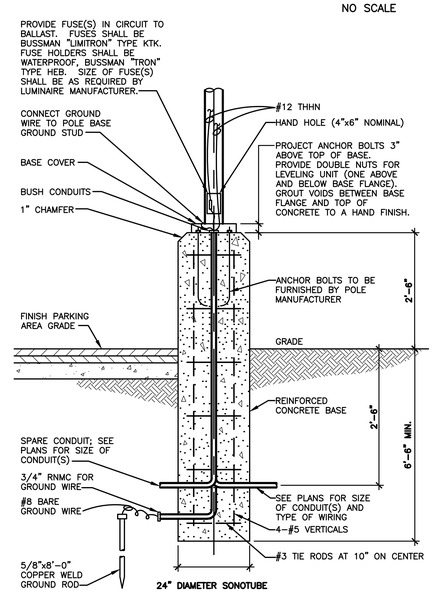
NOTES

1. POLES, FIXTURES, AND LAMPS WILL BE FURNISHED BY OWNER AND DELIVERED TO SITE. CONTRACTOR SHALL RECEIVE, UNLOAD, STORE, PROTECT, AND INSTALL.
2. LUMINAIRE BACKLIGHT, UPLIGHT, GLARE (BUG) RATINGS AVAILABLE FROM MANUFACTURER. LUMENS ARE INITIAL DELIVERED LUMENS.
3. REFER TO DETAIL FOR STANDARD CITY FIXTURE, POLE, AND FOUNDATION REQUIREMENTS.



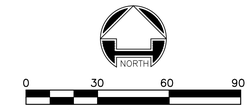
CITY STANDARD DETAILS

NO SCALE



PARKING LOT CONCRETE POLE BASE DETAIL

NO SCALE



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

PRELIMINARY NOT FOR CONSTRUCTION

REVISION

No.	DATE

PROJECT No: 78681

DATE 02/22/19
DES.
DR.
CKD.

333 North Alabama Street
Suite 200
Indianapolis, IN 46204
317.299.7500
FAX: 317.291.5805

WOOLPERT
ARCHITECTURE | ENGINEERING | ECONOMICS

McCORDSVILLE MARKETPLACE

WEST BROADWAY
McCORDSVILLE, INDIANA

LIGHTING PLAN

SHEET NO.

C700

Layout Tab Name: C700, Images: McCordsville Street Light Detail.jpg: JRS_Stamp_022219.jpg: , Xrefs: 78681TBLK.dwg; 78681-x.dwg; 78681-p.dwg; McCordsville Marketplace\4.0 Disciplines\Civil\Cadd\Cd\78681LTG.dwg Plotted By:Burchett, Trent Plotted:February 21, 2019
Last Saved By:Davidson, 2/21/2019 8:33:30 AM
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