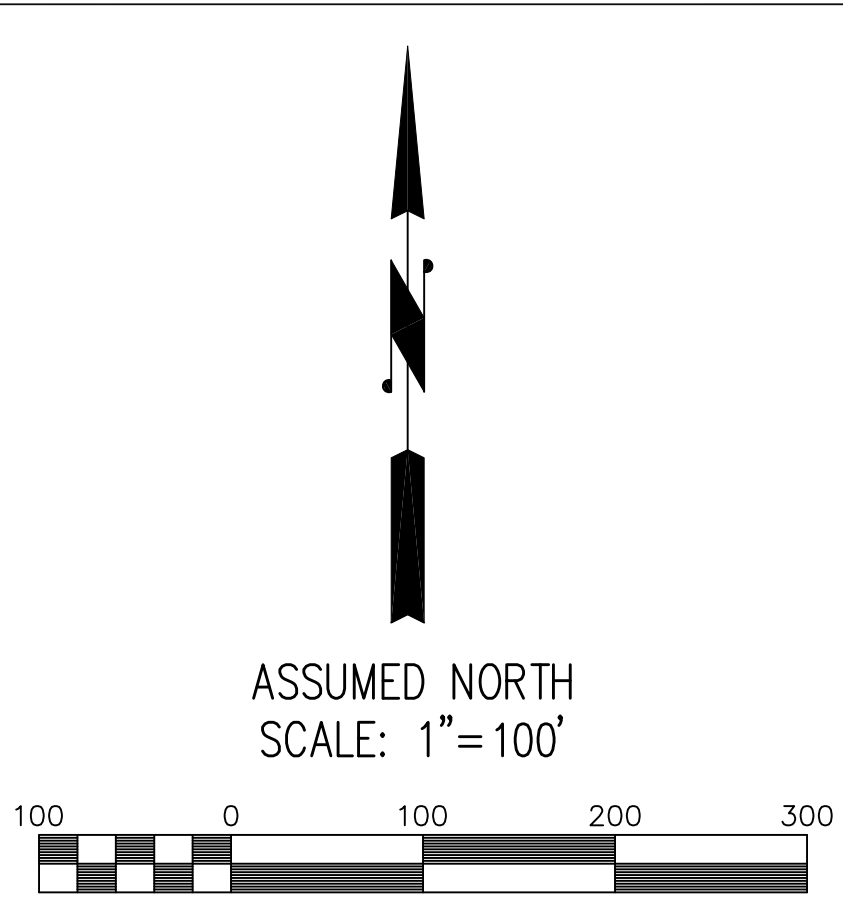
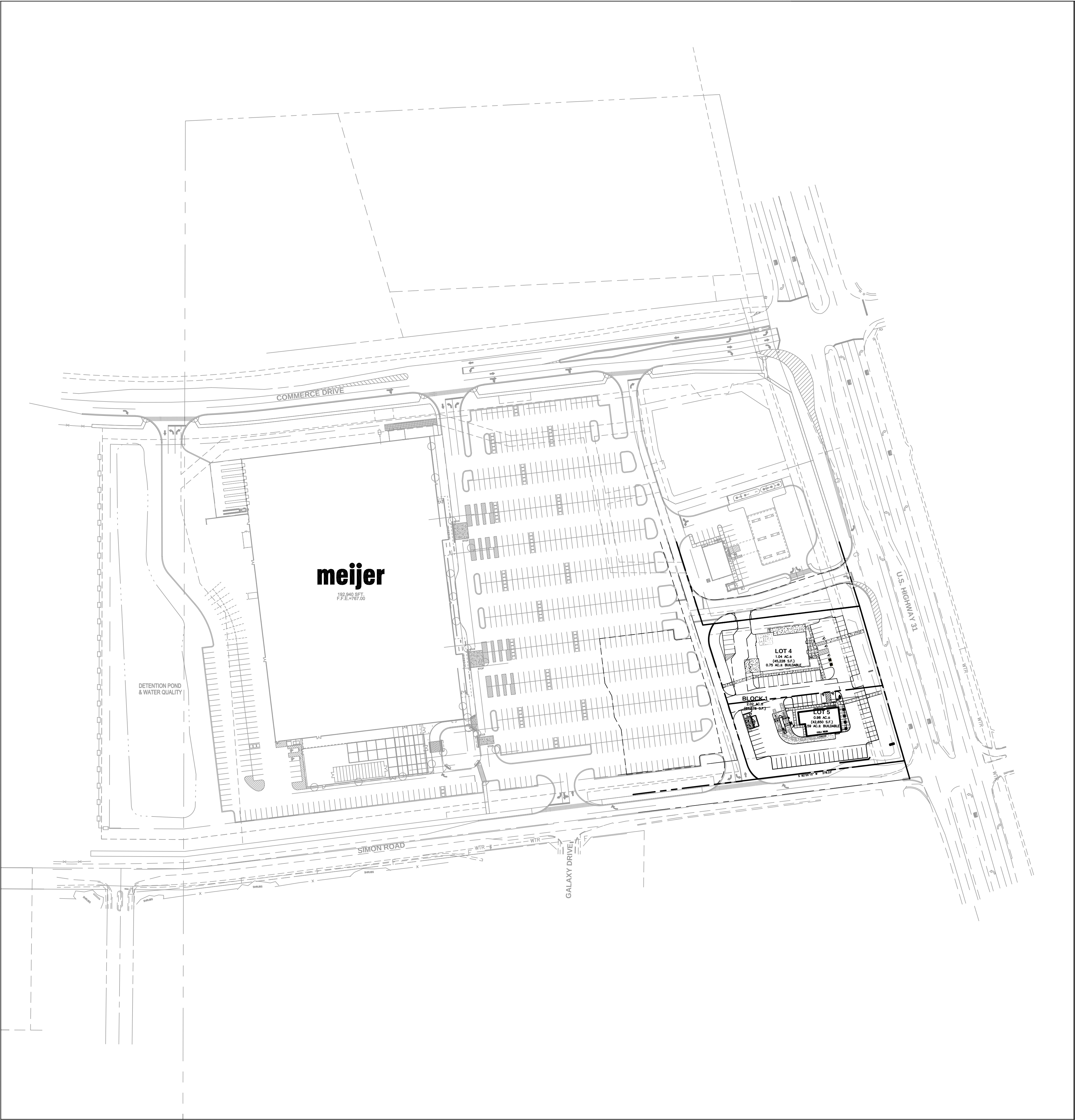




DEVELOPMENT SUMMARY

MEIJER	192,940 S.F.
OUTLOTS	
C-STORE	2,509 S.F.
FREDDY'S	3,010 S.F.
BUFFALO WILD WINGS	6,434 S.F.
TOTAL OUTLOT GLA	11,953 S.F.
TOTAL GLA	204,893 S.F.
TOTAL PARKING SPACES	905 SPACES
SPACE/1,000 S.F. OF GLA	4.42/1,000
OVERALL SITE	25.54 ACRES

LEGEND

- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER; INLET & M.H.
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING ELECTRIC/TELEPHONE LINE (AERIAL)
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING FIRE HYDRANT
- EXISTING VALVE; GAS & WATER
- EXISTING ELECTRIC MANHOLE & TRANSFORMER
- EXISTING TELEPHONE MANHOLE & PEDESTAL
- EXISTING WATER METER
- EXISTING AREA LIGHT
- NUMBER OF PARKING SPACES

ROGER WARD
ENGINEERING
INCORPORATED

CIVIL ENGINEERS - LAND PLANNERS - DEVELOPMENT CONSULTANTS

7474 NOEL ROAD
INDIANAPOLIS, INDIANA 46278
(317) 251-1738 (FAX) 251-1923
www.rw-engineering.com

OVERALL SITE PLAN

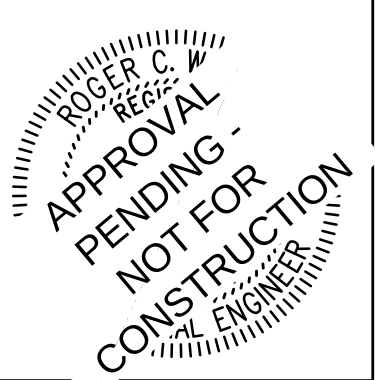
DRAWN BY: DBS
DATE: 01/19/17
NAME: PWD/pwd/cj
REV:

REVISIONS:
1
2
3
4

TR & D, LLC

PROPOSED FREDDY'S
STEAKBURGERS

2306 N. MORTON STREET
FRANKLIN, INDIANA

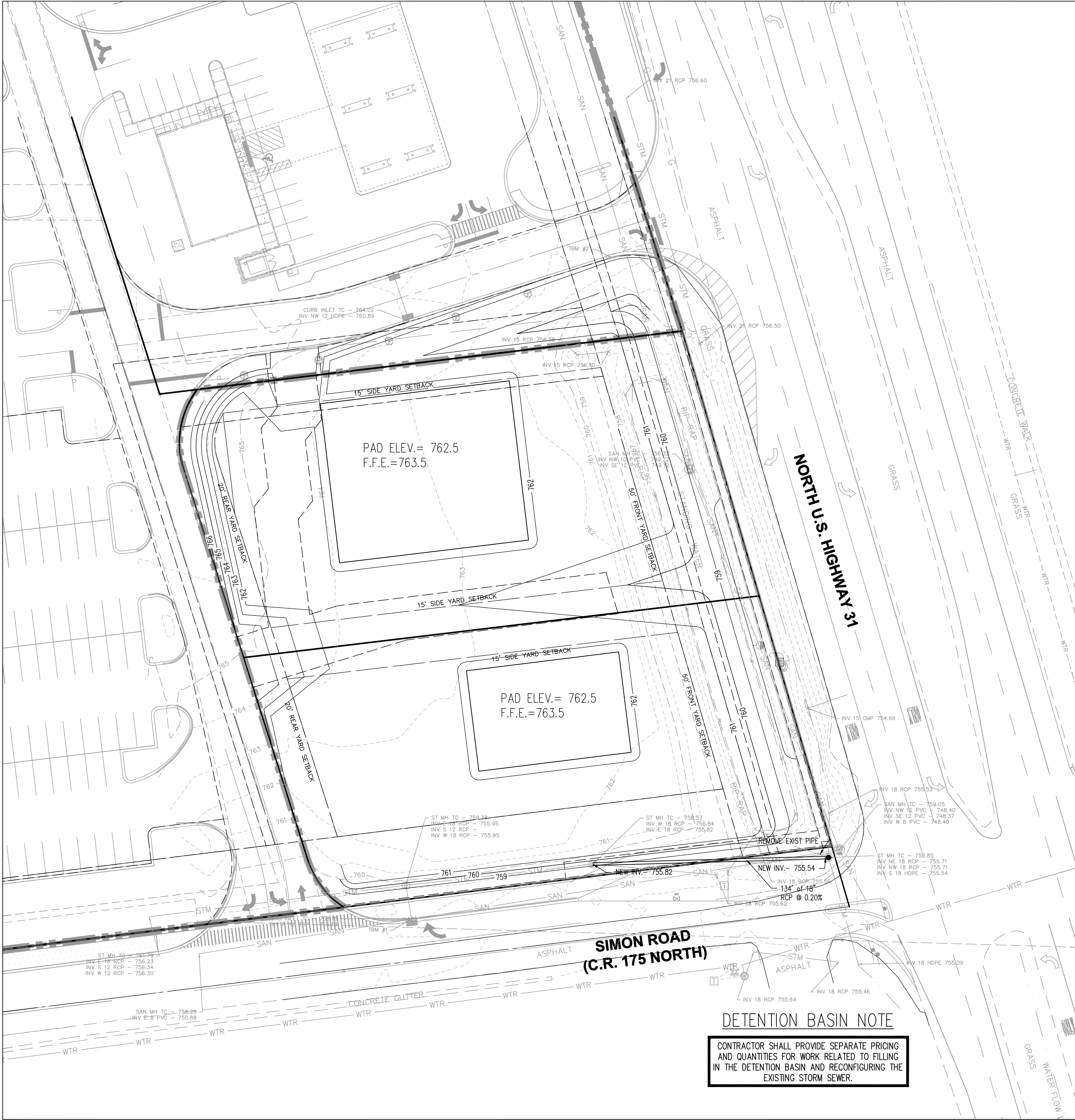


BY:

DATE: 01-17-2017

SHEET
C1
OF
1

JOB#: TRD.001



KEY NOTES

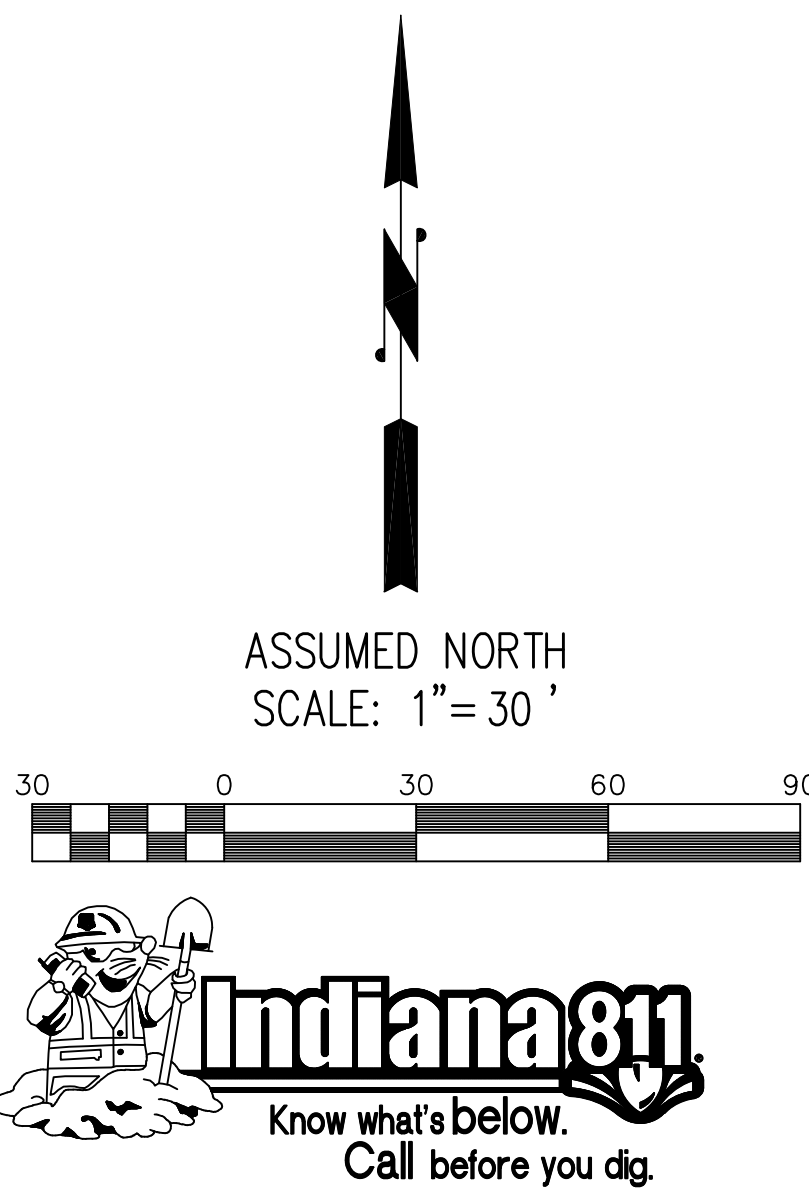
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GENERAL NOTES

1. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. ALL SWALES SHALL HAVE A MINIMUM SLOPE OF 1.00%.
4. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
5. SLOPES SHALL NOT BE GREATER THAN 3:1 UNLESS OTHERWISE SPECIFIED.
6. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED BUILDING PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
7. THE SUB-GRADE AND ANY FILL PLACED ON-SITE SHALL BE COMPACTED TO A MINIMUM OF 93 PERCENT STANDARD PROCTOR DENSITY (ASTM D-1557). FILL BENEATH THE BASE OF FOOTING ELEVATION AND PARKING LOT AREAS SHALL BE COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY (ASTM D-1557). REFER TO PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
8. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
9. ALL STORM SEWER TRENCHES ARE TO BE BACKFILLED WITH GRANULAR MATERIAL.
10. STANDARD SPECIFICATIONS FOR THE LOCAL GOVERNING AUTHORITY SHALL APPLY FOR ALL STORM SEWER CONSTRUCTION.
11. MAXIMUM SLOPE OF 2.00% IN HANDICAPPED PARKING AREAS.
12. ROOF DRAINS AND FOUNDATIONS DRAINS TO BE KEPT SEPARATE. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FOUNDATION DRAINS AND DOWNSPOUTS.
13. ALL STORM WATER SHALL BE KEPT SEPERATE FROM SANITARY LINES.

DETENTION BASIN NOTE

CONTRACTOR SHALL PROVIDE SEPARATE PRICING AND QUANTITIES FOR WORK RELATED TO FILLING IN THE DETENTION BASIN AND RECONFIGURING THE EXISTING STORM SEWER.



BENCHMARK NOTE

WOOLPERT BENCHMARK:
THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET - SEE DRAWING FOR LOCATION. ELEVATION = 762.12'

TBM #1:
MAG NAIL SET IN NORTH CURB OF SIMON RD. APPROXIMATELY 262' WEST OF THE EDGE OF PAVEMENT OF US 31. ELEVATION = 758.12'

TBM #2:
MAG NAIL SET IN SOUTH CURB OF ACCESS DRIVE APPROXIMATELY 55' WEST OF THE EDGE OF PAVEMENT OF US 31. ELEVATION = 762.54'

FLOOD NOTE

THIS SITE DOES LIES ENTIRELY WITHIN SPECIAL FLOOD HAZARD ZONE "X" AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, INDIANA, MAP NUMBER 18081C01390, DATED AUGUST 2, 2007.

LEGEND

- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER; INLET & M.H.
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- PROPOSED TOP OF CURB/ GUTTER GRADE
- PROPOSED GRADE
- PROPOSED STORM SEWER; INLET BEE HIVE INLET, M.H. AND END SECTION
- FLOW ARROWS
- GRADE BREAKS



EXISTING CONDITIONS & MASS EARTHWORK PLAN

DRAWN BY: DBS
DATE: 01/19/17
CHECKED BY: JMC
DATE: 01/19/17

REVISIONS:

TR & D, LLC
PROPOSED FREDDY'S
STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA

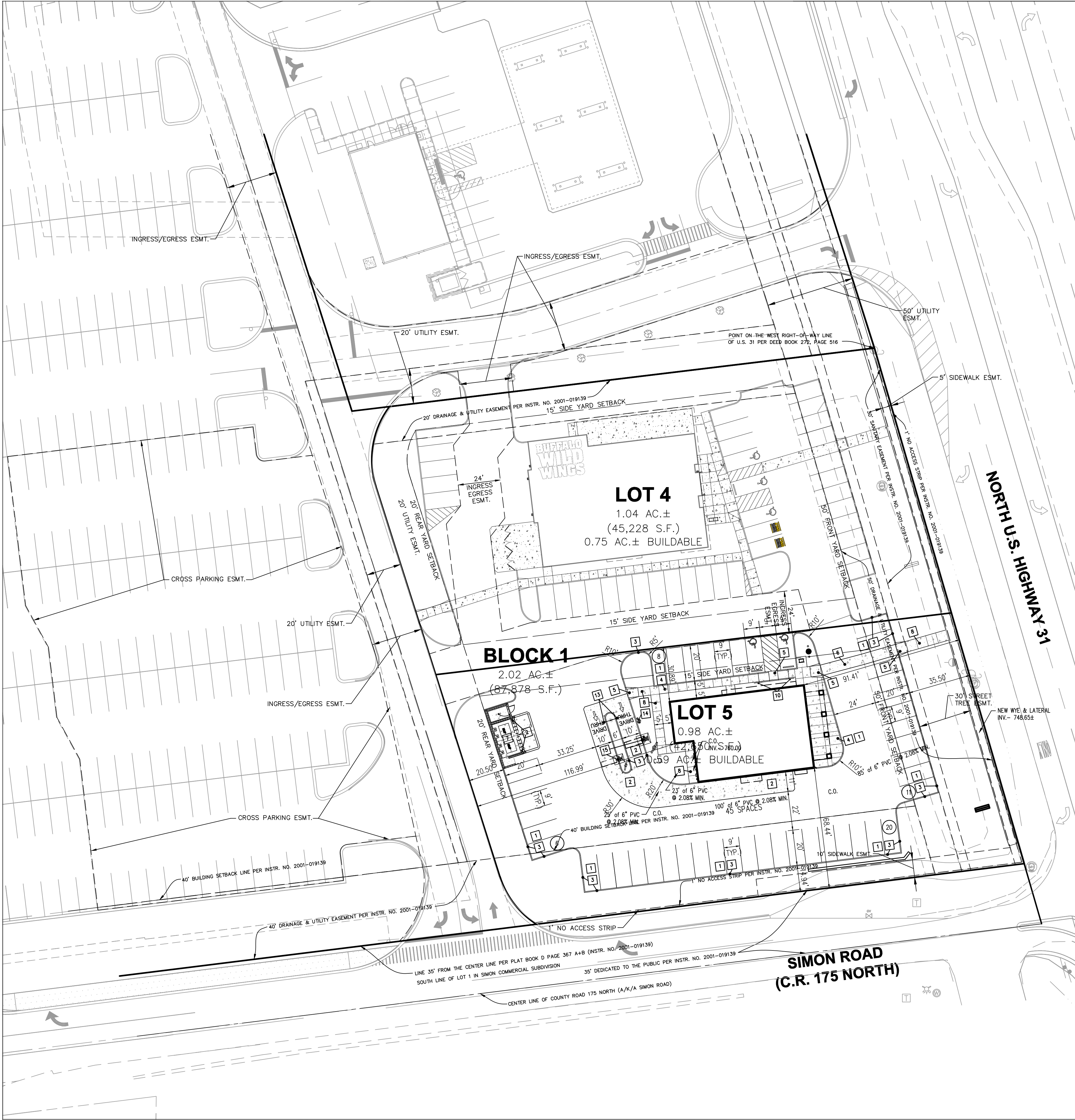


BY: *R. C. Ward*

DATE: 01-17-2017

SHEET
C2
OF
1

JOB#: TRD.001



GENERAL NOTES

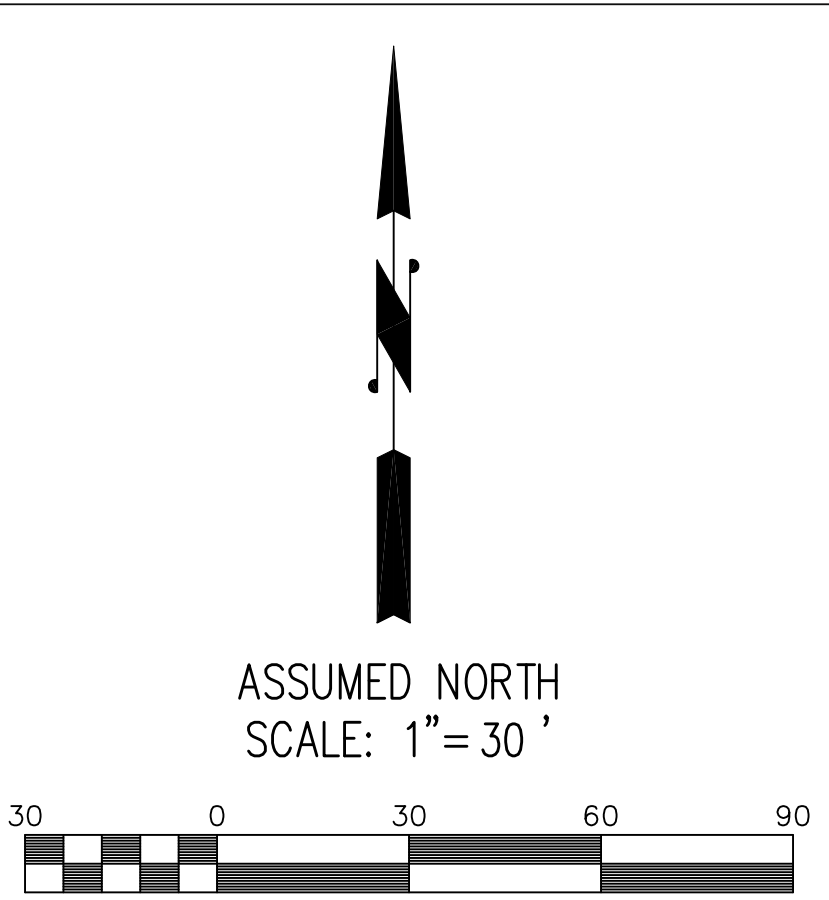
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2. STANDARD SPECIFICATIONS FOR THE LOCAL GOVERNING AGENCY SHALL APPLY FOR ALL SANITARY SEWERS, STORM SEWERS, AND WATER MAINS.
3. ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). HANDICAPPED ACCESS AISLES SHALL BE 4" PAINTED (BLUE).
4. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
5. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
6. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
7. ALL WATER MAINS TO HAVE A 54" MINIMUM COVER OVER TOP OF PIPE.
8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING.
9. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH REQUIREMENTS.
10. EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK JOINTS ARE TO BE EQUALLY PLACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS, AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
11. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
12. ALL 6" PVC SANITARY SEWER LATERALS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1.04%.
13. ALL LATERALS ARE REQUIRED TO HAVE TRACER WIRE INSTALLED ON THE TOP OF THE PIPE FROM THE SEWER MAIN TO THE CLEANOUT.
14. CONTRACTOR TO REFER TO SITE LIGHTING PLAN FOR LOCATION OF LIGHT POLES.
15. CONTRACTOR TO PROVIDE SUFFICIENT CONDUIT WHERE ELECTRIC LINES CROSS PAVEMENT.

KEY NOTES

- 1 PROPOSED ASPHALT PAVEMENT (SEE SHEET C801).
- 2 PROPOSED CONCRETE PAVEMENT (SEE SHEET C801).
- 3 PROPOSED CONCRETE STRAIGHT CURB (SEE SHEET C801).
- 4 PROPOSED INTEGRAL CURB & WALK (SEE SHEET C801).
- 5 PROPOSED ADA RAMP (SEE SHEET C801).
- 6 PROPOSED COLORED CONCRETE CROSSWALK (COLOR SELECTED BY OWNER)
- 7 PROPOSED DUMPSTER ENCLOSURE AND CONCRETE PAD (SEE ARCHITECTURAL PLANS).
- 8 PROPOSED SIDEWALK (SEE SHEET C801).
- 9 PROPOSED LIGHT POLE.
- 10 "RESERVED PARKING" (R7-B) SIGN ON METAL POLE MIN. 60" ABOVE GRADE (SEE SHEET C801).
- 11 PROPOSED BIKE RACK.
- 12 PROPOSED STACK BLOCK RETAINING WALL.
- 13 PROPOSED CLEARANCE POST (SEE ARCHITECTURE PLANS).
- 14 PROPOSED PREVIEW BOARD (SEE ARCHITECTURE PLANS).
- 15 PROPOSED EXTERIOR MENUBOARD SPEAKER POST, OCB AND CANOPY. (SEE ARCHITECTURE PLANS).

BOUNDARY/TOPO NOTE

THESE PLANS WERE PREPARED UTILIZING A PLAT PREPARED BY WOOLPERT ON 11/15/16. ROGER WARD ENGINEERING, INC. CANNOT BE HELD RESPONSIBLE IF ACTUAL EXISTING PROPERTY LINES, EASEMENTS, AND RIGHT-OF-WAY LOCATIONS ARE DIFFERENT FROM WHAT IS SHOWN. SEE RECORD PLATS FOR EXACT INFORMATION REGARDING PROPERTY BOUNDARY, EASEMENTS, AND RIGHT-OF-WAY.



DEVELOPMENT SUMMARY

SITE INFORMATION :
TOTAL SITE AREA = +/- 0.98 AC
IMPERVIOUS COVERAGE = 0.69 AC (70%)
SITE ZONING = MKC
FRONT BUILDING SETBACK = 50'
SIDE BUILDING SETBACK = 15'
REAR BUILDING SETBACK = 20'

REQUIRED PARKING CALCULATION :
RESTAURANT: 1 SPACE PER 3 SEATS
(96 SEATS - DINING ROOM) = 32 SPACES
1 SPACE PER EMPLOYEE (15 EMPLOYEES) = 15 SPACES
-TOTAL PARKING SPACES REQUIRED = 47 SPACES

BICYCLE PARKING REQUIRED
1 SPACE PER 30 PARKING SPACES = 1 SPACES

PROPOSED PARKING CALCULATION :
ON-SITE PARKING SPACES PROVIDED = 43 SPACES
ACCESSIBLE SPACES PROVIDED = 2 SPACES
OFFSITE PARKING SPACES PROVIDED = 2 SPACES
-TOTAL PARKING SPACE PROVIDED = 47 SPACES
-TOTAL BICYCLE PARKING PROVIDED = 2 SPACES
-SEE OVERALL SITE PLAN (SHEET C1) FOR OVERALL PARKING SPACE CALCULATION.

LEGEND

- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER; INLET & M.H.
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING ELECTRIC/TELEPHONE LINE (AERIAL)
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING FIRE HYDRANT
- EXISTING VALVE; GAS & WATER
- EXISTING ELECTRIC MANHOLE & TRANSFORMER
- EXISTING TELEPHONE MANHOLE & PEDESTAL
- EXISTING WATER METER
- EXISTING AREA LIGHT
- NUMBER OF PROPOSED PARKING SPACES
- DENOTES ASPHALT PAVEMENT
- HATCHING DENOTES PLANTING AREAS
- HATCHING DENOTES CONCRETE WALKS AND PAVEMENT

LAND DESCRIPTION

LOT 5 OF MEIJER FRANKLIN SUBDIVISION, PHASE II, BEING A SUBDIVISION OF PART OF THE NORTHEAST QUARTER AND NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 12 NORTH, RANGE 4 EAST OF THE SECOND PRINCIPAL MERIDIAN, JOHNSON COUNTY, INDIANA.

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7474 NOEL ROAD
INDIANAPOLIS, INDIANA 46278
(317) 251-1738 (FAX) 251-1923
www.rw-engineering.com

SITE PLAN

DRAWN BY: DBS
DATE: 01/19/17
CHECKED BY: RWC
DATE: 01/19/17

REVISIONS:
1 - 1
2 - 1
3 - 1
4 - 1

TR & D, LLC
PROPOSED FREDDY'S STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA



BY: *R. Ward*

DATE: 01-17-2017

SHEET
C101
OF
-

JOB#: TRD.001

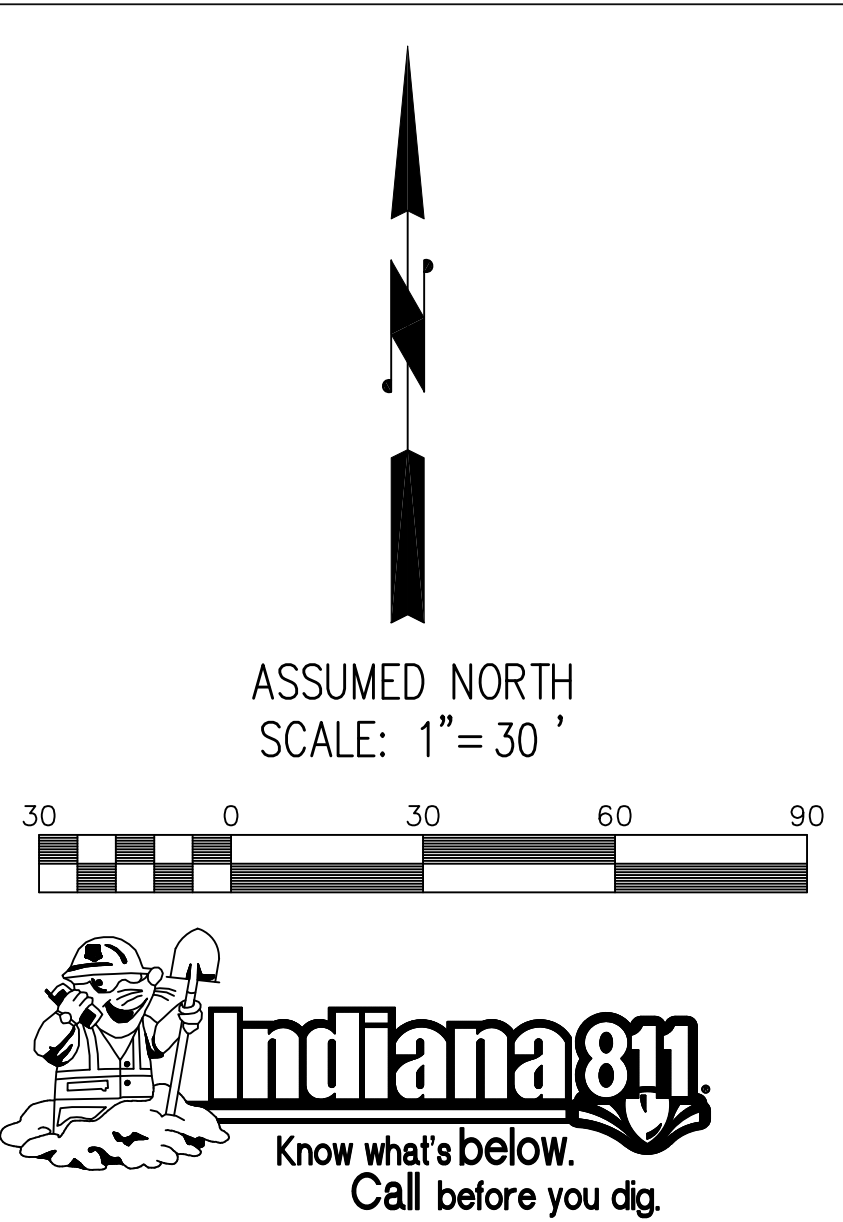


- KEY NOTES**
- 1 1/2" DOMESTIC WATER SERVICE W/ EXTERIOR METER PIT. (PER INAW STANDARDS).
 - 2 PROPOSED ELECTRIC SERVICE LINE. (COORDINATE WITH UTILITY PROVIDER).
 - 3 PROPOSED NATURAL GAS SERVICE LINE. (COORDINATE WITH UTILITY PROVIDER).
 - 4 PROPOSED TELEPHONE SERVICE LINE. (COORDINATE WITH UTILITY PROVIDER).
 - 5 PROPOSED GREASE TRAP (REFER TO PLUMBING PLANS & SHEET C803).

- GENERAL NOTES**
1. IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THEIR PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
 2. STANDARD SPECIFICATIONS FOR THE LOCAL GOVERNING AGENCY SHALL APPLY FOR ALL SANITARY SEWERS, STORM SEWERS, AND WATER MAINS.
 3. ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE), HANDICAPPED ACCESS AISLES SHALL BE 4" PAINTED (BLUE).
 4. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
 5. THE EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
 6. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH GRANULAR MATERIAL.
 7. EXPANSION JOINTS ARE TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY PLACED BETWEEN EXPANSION JOINTS, CONTRACTION JOINTS, AND PERPENDICULAR SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONTRACTION JOINT EVERY 20' OR LESS.
 8. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
 9. ALL 6" PVC SANITARY SEWER LATERALS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 2.00%.
 10. ALL LATERALS ARE REQUIRED TO HAVE TRACER WIRE INSTALLED ON THE TOP OF THE PIPE FROM THE SEWER MAIN TO THE CLEANOUT.
 11. WHERE SANITARY AND WATER LINES CROSS, A VERTICAL SEPARATION OF 2' MUST BE MAINTAINED OR THE SANITARY LINE MUST BE ENCASED IN CONCRETE FOR 10' FROM THE POINT OF INTERSECTION.
 12. THE SANITARY LATERAL CONNECTION TO THE MAIN SHALL BE INSPECTED BY THE CITY OF FRANKLIN.
 13. CONTRACTOR TO REFER TO SITE LIGHTING PLAN FOR LOCATION OF LIGHT POLES.
 14. CONTRACTOR TO PROVIDE SUFFICIENT CONDUIT WHERE ELECTRIC LINES CROSS PAVEMENT.
 15. CONTRACTOR TO CAP ENDS OF CONDUITS RESERVED FOR FUTURE USE AND MARK THE LOCATIONS.
 16. ALL WATER MAINS TO HAVE A 54" MINIMUM COVER OVER TOP OF PIPE.
 17. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING.
 18. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH REQUIREMENTS.
 19. ALL HYDRANTS SHALL BE PAINTED YELLOW IF PUBLIC, RED IF PRIVATE, WITH CAP COLOR CODED TO DENOTE WATER FLOW. 1,500 GPM = BLUE, 1,000-1,499 GPM = GREEN, 500-999 GPM = ORANGE.
 20. ALL HYDRANTS SHALL HAVE A S.T.O.R.Z. CONNECTION.
 21. HYDRANT LOCATIONS SHALL BE WITHIN 25' OF THE F.D.C. AND 25' OF TRUCK ACCESS.
 22. F.D.C. SHALL HAVE A S.T.O.R.Z. CONNECTION.

OFF-SITE UTILITY NOTE

EXISTING UTILITIES OUTSIDE OF THE SITE LIMITS WERE NOT LOCATED AS PART OF THE SITE UTILITY LOCATES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES OUTSIDE OF THE SITE LIMITS PRIOR TO ANY WORK.



- LEGEND**
- EXISTING SANITARY SEWER & MANHOLE
 - EXISTING STORM SEWER; INLET & M.H.
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING ELECTRIC/TELEPHONE LINE (AERIAL)
 - EXISTING UNDERGROUND ELECTRIC LINE
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 - EXISTING VALVE; GAS & WATER
 - EXISTING ELECTRIC MANHOLE & TRANSFORMER
 - EXISTING TELEPHONE MANHOLE & PEDESTAL
 - EXISTING WATER METER
 - EXISTING BOLLARDS
 - EXISTING AREA LIGHT
 - PROPOSED STORM SEWER; INLET, BEE HIVE INLET & M.H.
 - PROPOSED ELECTRIC SERVICE
 - PROPOSED TELEPHONE SERVICE
 - PROPOSED WATER SERVICE
 - PROPOSED GAS SERVICE
 - PROPOSED SANITARY LATERAL AND CLEANOUT

UTILITY NOTE

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON MARKINGS PROVIDED BY INDIANA IUPPS AND UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

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UTILITY PLAN

DRAWN BY: DBS
DATE: 01/19/17
CHECKED BY: JMC
PROJECT: PM/037/PMC/C102

REVISIONS:

1	1
2	2
3	3
4	4

TR & D, LLC

**PROPOSED FREDDY'S
STEAKBURGERS**

**2306 N. MORTON STREET
FRANKLIN, INDIANA**

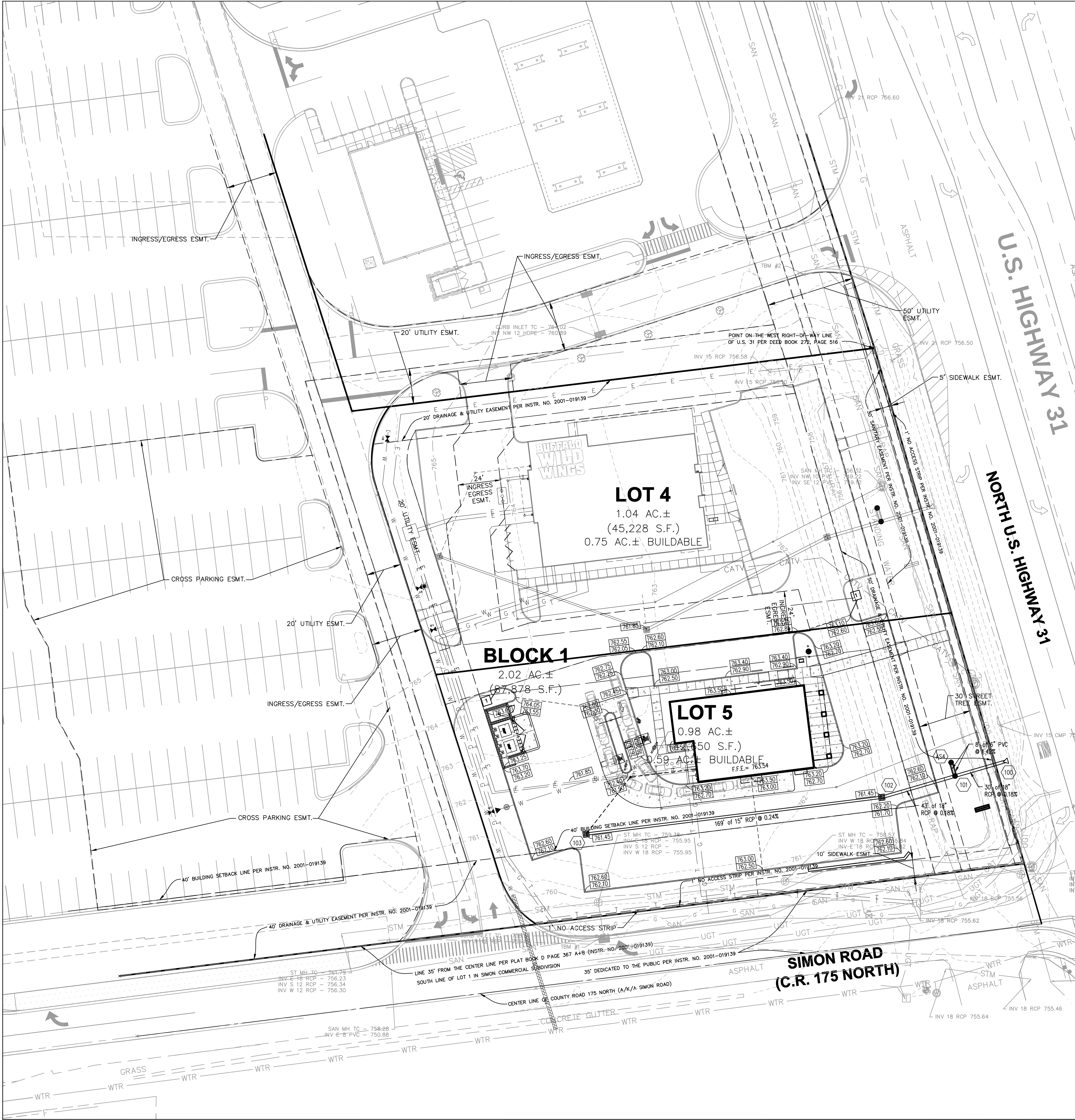
APPROVAL
PENDING
NOT FOR
CONSTRUCTION

BY: *R. C. Ward*

DATE: 01-17-2017

SHEET
C102
OF
-

JOB#: TRD.001



KEY NOTES

- 1 2' CURB TRANSITION TO PAVEMENT
(SEE DETAIL SHEET C801)

GENERAL NOTES

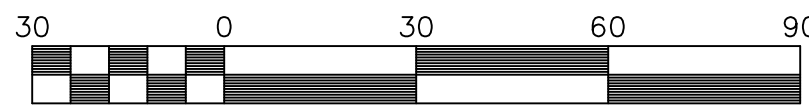
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- ALL STORM SEWER TRENCHES ARE TO BE BACKFILLED WITH GRANULAR MATERIAL.
- STANDARD SPECIFICATIONS FOR THE LOCAL GOVERNING AUTHORITY SHALL APPLY FOR ALL STORM SEWER CONSTRUCTION.
- MAXIMUM SLOPE OF 2.00% IN HANDICAPPED PARKING AREAS.
- ROOF DRAINS AND FOUNDATIONS DRAINS TO BE KEPT SEPARATE. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FOUNDATION DRAINS AND DOWNSPOUTS.
- ALL STORM WATER SHALL BE KEPT SEPERATE FROM SANITARY LINES.

STORM SEWER TABLE

STR #	CASTING	TC/GUT*	DOWNSTEAM PIPE INFORMATION	INVERTS	STRUCTURE TYPE	DETAIL ON SHEET #
100	N/A	N/A	N/A	W=757.00	END SECTION	C802
101	NEENAH R-1772	760.00	30' of 18" RCP @ 0.18%	W=757.62, N=757.52, N=757.40, E=757.06	STORM MANHOLE	C802
AS4	N/A	760.00	8' of 6" PVC @ 0.74%	S=757.46	WATER QUALITY STRUTURE	C802
102	NEENAH R-3405	761.45	43' of 18" RCP @ 0.18%	W=758.04, E=757.69	STORM INLET	C802
103	NEENAH R-3405	761.45	169' of 15" RCP @ 0.24%	E=758.45	STORM INLET	C802

NOTE: ALL CONCRETE PIPE SHALL BE MINIMUM CLASS III.
NOTE: ALL CONCRETE PIPE SHALL INCLUDE O-RING GASKETED JOINTS.

ASSUMED NORTH
SCALE: 1" = 30'



BENCHMARK NOTE

WOOLPERT BENCHMARK:
THE BASIS OF ELEVATIONS HEREON IS NAVD 88. IRON ROD SET - SEE DRAWING FOR LOCATION. ELEVATION = 762.12'

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LEGEND

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- EXISTING STORM SEWER; INLET & M.H.
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- PROPOSED TOP OF CURB/ GUTTER GRADE
- PROPOSED GRADE
- PROPOSED STORM SEWER; INLET BEE HIVE INLET, M.H. AND END SECTION
- FLOW ARROWS
- GRADE BREAKS
- SUB-SURFACE DRAIN (SSD)
- PROPOSED STORM STRUCTURE NUMBER

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GRADING & DRAINAGE PLAN

DRAWN BY: DBS
DATE: 07/19/17
CHECKED BY: JMC
DATE: 07/19/17

REVISIONS:

TR & D, LLC
PROPOSED FREDDY'S
STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA

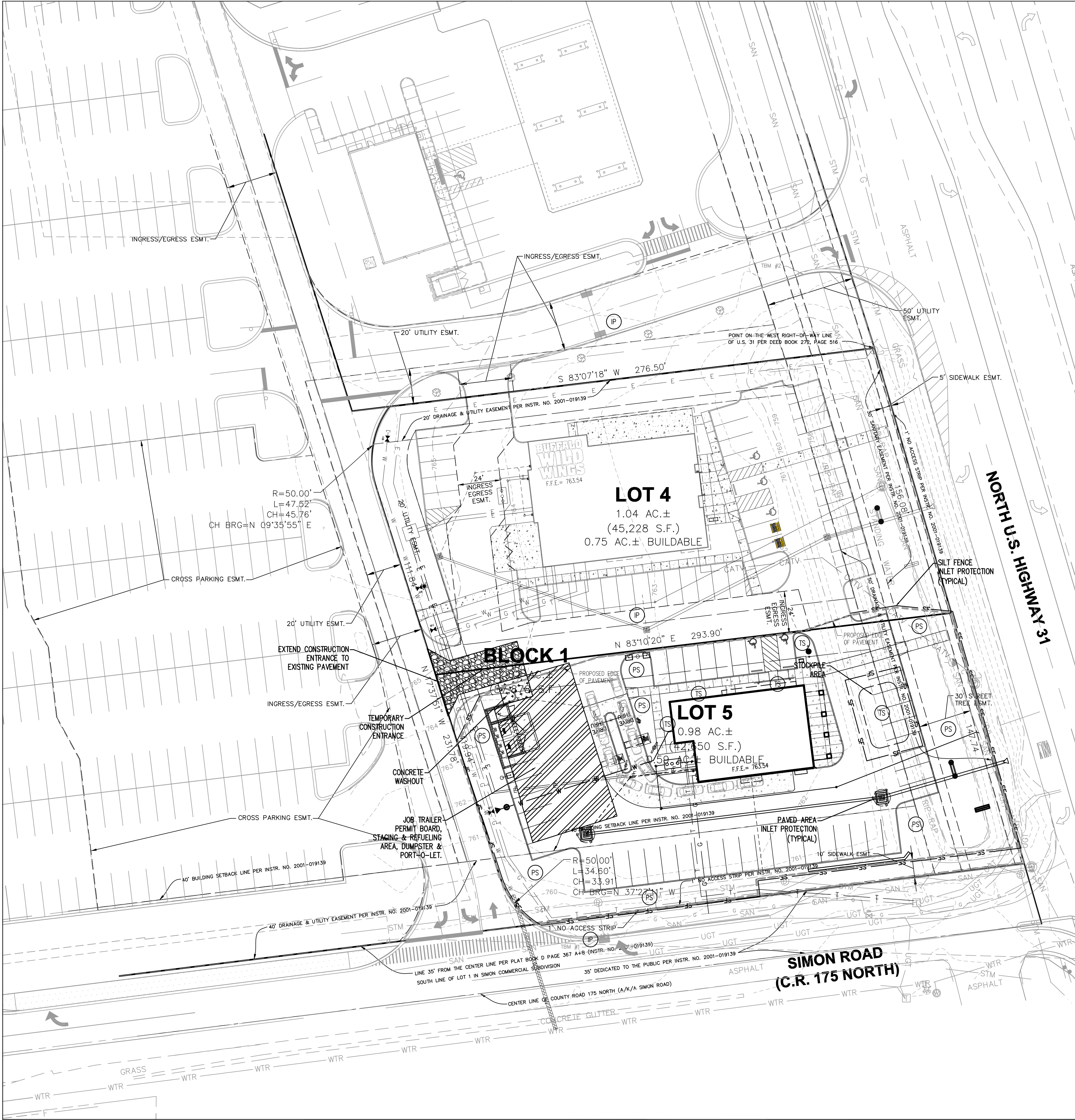


BY: *R. Ward*

DATE: 01-17-2017

SHEET
C103
OF
1

JOB#: TRD.001



GENERAL NOTES

1. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
2. CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVISE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
3. LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRAVING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
4. ALL DISTURBED AREAS SHALL BE SEEDED AND STRAW MULCHED AS SHOWN ON THE PLANS IMMEDIATELY AFTER COMPLETION OF GROUND ACTIVITY. FOR LARGE PROJECTS, THIS SEEDED SHOULD BE COMPLETED IN PHASES AS THE DIFFERENT AREAS OF THE SITE ARE COMPLETED.
5. PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM DEPENDING UPON THE WEATHER. IF CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN TWO WEEKS, THE DISTURBED AREAS SHALL BE TEMPORARILY SEEDED.
7. ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
8. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR.
9. ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL NO LONGER OCCUR, THE CONTRACTOR SHALL REMOVE, AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
10. THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS.
11. EROSION CONTROL TO COMPLY WITH INDIANA 327 IAC AND RULE #5, AND THE INDIANA STORM WATER QUALITY MANUAL.
12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
13. DIRT AND DEBRIS SHALL NOT BE TRACKED INTO THE ROADWAYS VIA CONSTRUCTION EQUIPMENT AND PERSONNEL.
14. INLET PROTECTION IS TO BE PROVIDED AT ALL INLETS. SEE SHEET C105 FOR INLET PROTECTION DETAILS.

EROSION CONTROL CONTACT

TR&D, LLC
TIM ROHRER
P.O. BOX 1647
COLUMBUS, IN 47202
812-343-1505

HYDROLOGIC UNIT CODE

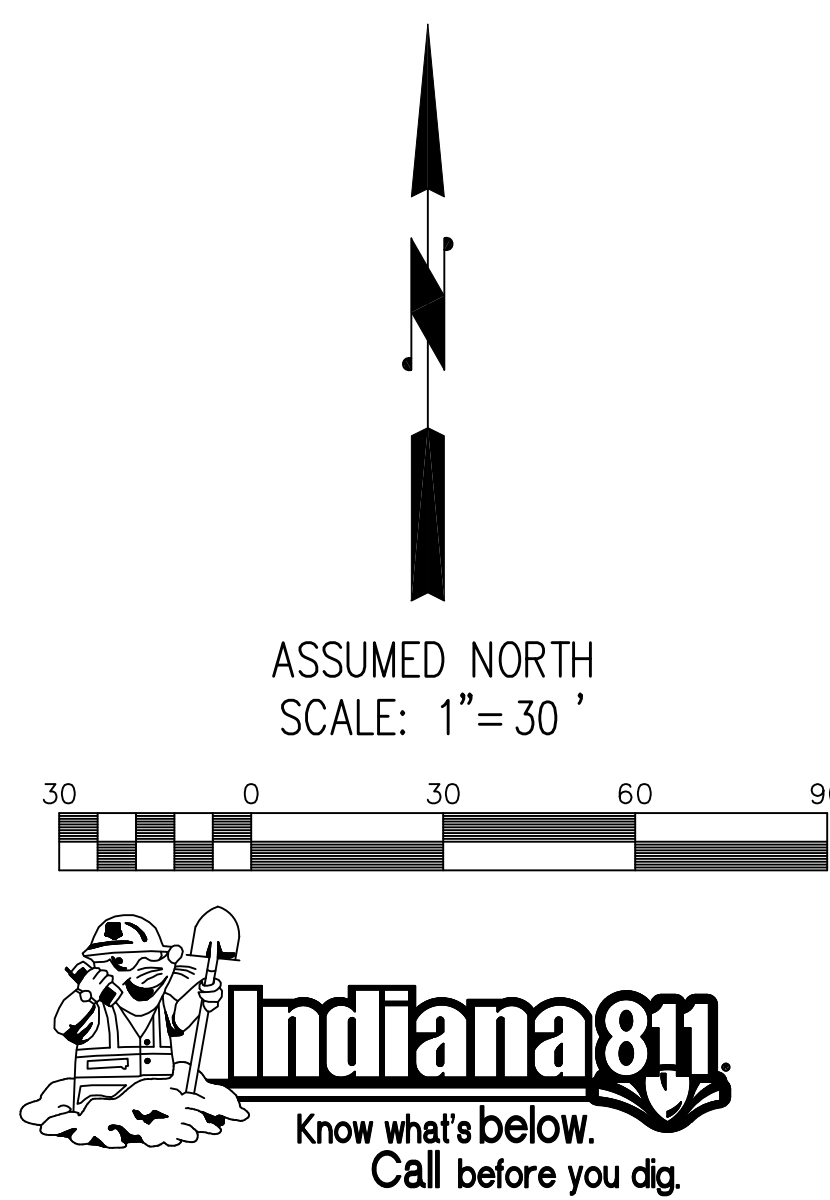
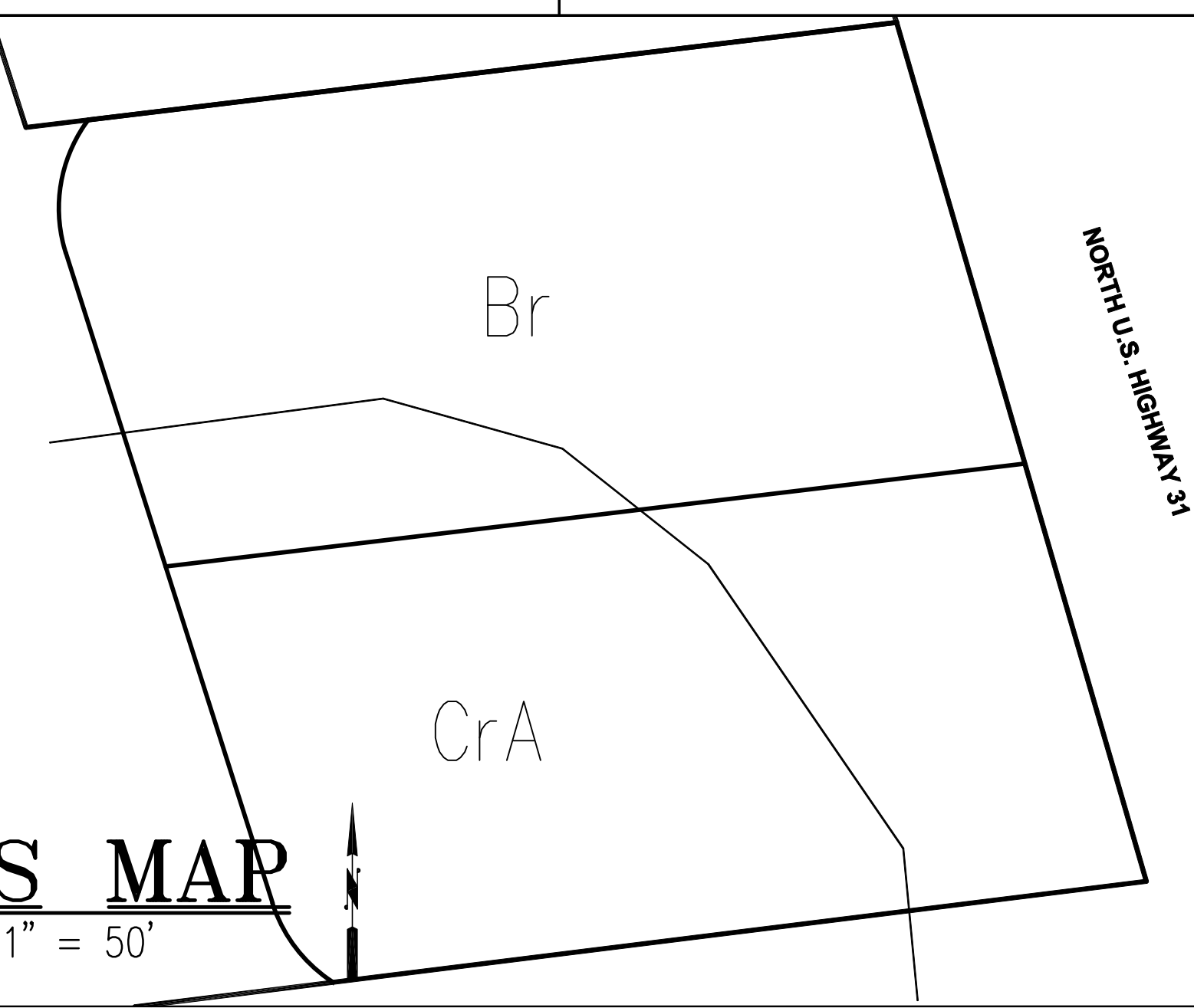
HUC-14: 05120204090030
(YOUNGS CREEK VIA CANARY DITCH)

REQUIRED STATE/FEDERAL WATER QUALITY PERMITS

NONE REQUIRED

SOILS MAP

SCALE : 1" = 50'



LEGEND

- EXISTING STORM SEWER INLET & MANHOLE
- PROPOSED STORM SEWER; INLET BEE HIVE INLET, M.H. AND END SECTION
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- TEMPORARY SEEDED
- PERMANENT SEEDED
- EXISTING INLET PROTECTION
- LIMITS OF CONSTRUCTION
- SILT FENCE
- SILT FENCE INLET PROTECTION
- PAVED AREA INLET PROTECTION
- PROPOSED RIP-RAP

ROGER WARD ENGINEERING INCORPORATED
CIVIL ENGINEERS - LAND PLANNERS - DEVELOPMENT CONSULTANTS
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EROSION CONTROL PLAN

DRAWN BY: DBS
DATE: 01/19/17
CHECKED BY: JMC
DATE: 01/19/17

TR & D, LLC
PROPOSED FREDDY'S STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA

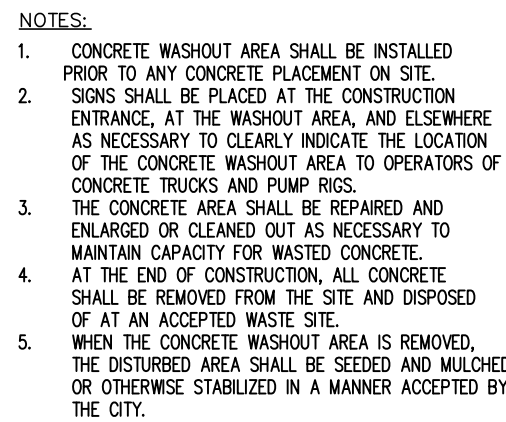
APPROVAL
PENDING
NOT FOR CONSTRUCTION

BY: *R. C. Ward*

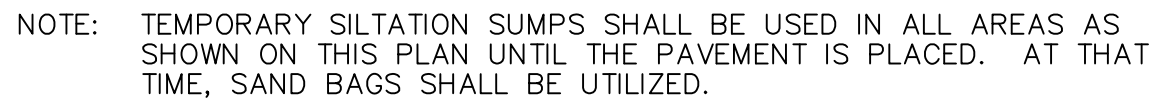
DATE: 01-17-2017

SHEET
C104
OF
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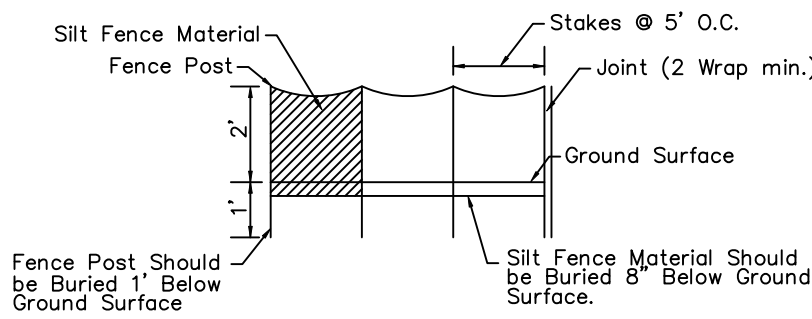
JOB#: TRD.001



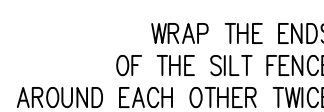
SCALE: NONE



SCALE: NONE



(N.T.S.)



TR&D, LLC
TIM ROHRER
P.O. BOX 1647
COLUMBUS, IN 47202
812-343-1505

Ranking:	Salt Tolerance (to both soil salts & spray)
1 Good	T Tolerance
2 Medium	MT Medium Tolerance
- Not tolerant	S Slight Tolerance

Seedbed Preparation

Apply lime to raise the pH to the level needed for species being seeded. Utilize phosphorus-free fertilizer unless required by soils test. Application of 150 lbs. of ammonium nitrate on areas low inorganic matter and fertility will greatly enhance vegetative growth.

Work the fertilizer and lime into the soil to a depth of 2-3 inches with a harrow, disk or rake operated across the slope as much as possible.

Seeding

Select a seed mixture based on projected use of the area (Figure 5-2), while considering best seeding dates. See Figure 5-3 this sheet. If tolerances are a problem, such as salt tolerance of seedings adjacent to streets and highways, see Figure 5-4 this sheet before final selection.

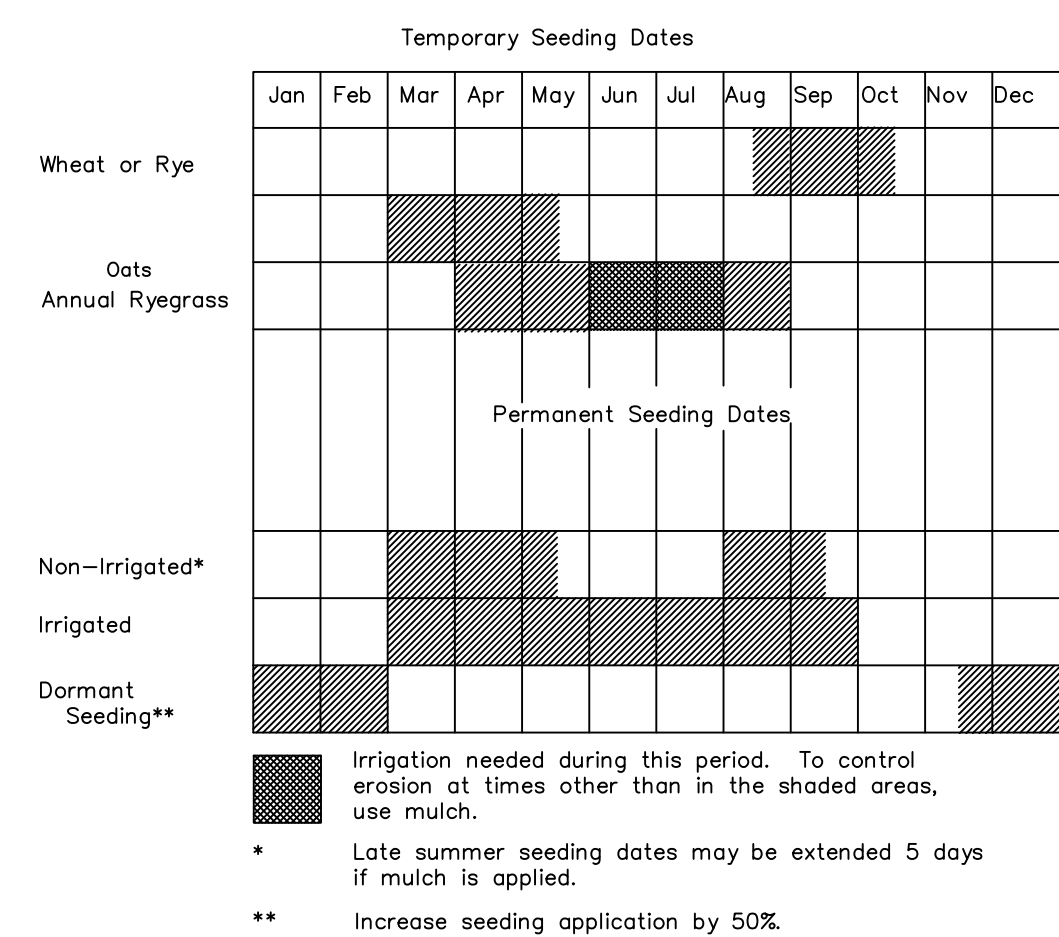
Mulch Rate

Mulch is to be applied at 2,000 to 3,000 pounds per acre in areas not covered by erosion control blanketing. Mulch must be anchored using a mulch anchoring tool or farm disk with dull, serrated, straight set blades, or bulldozer cleats driven up and down slope.

Figure 5-2: Permanent Seed Mixtures

Species	Seeding Rate lbs/acre	Sustainable pH /1000 sq. ft.	Site Suitability* well			
			Droughty	Drained	Wet	
Level and Sloping, Open Areas						
1. Tall Fescue	35	.8	5.5-8.3	2	1	2
2. Tall Fescue Red Clover**	25 5	.6 .12	5.5-8.3	1		
3. Kentucky Bluegrass Creeping Red Fescue	15 15	.4 .4	5.5-7.5	2	1	
Steep Banks and Cuts						
4. Tall Fescue Kentucky Bluegrass	15 25	.4 .6	5.8-7.5	2	1	2
5. Tall Fescue Emerald Crownvetch**	35 10	.8 .25	5.5-8.3	2	1	
Lawns and High Maintenance Areas						
6. Kentucky Bluegrass Creeping Red Fescue	40 40	.9 .9	5.8-7.5	2	1	
7. Perennial Ryegrass (Turf Type)	170	4.0	5.0-7.5			
8. Perennial Ryegrass	170	4.0	5.5-8.3	2	1	2

* 1 - Preferred 2 - Will Tolerate ** Inoculate with specific Inoculant.



Temporary Seedlings

Temporary Seedings			
Kind of Seed	1000 Sq. Ft.	Acre	Remarks
Wheat or Rye	3.5 lbs.	2 bu.	Cover seed 1" to 1 1/2" deep
Spring Oats	2.3 lbs.	3 bu.	Cover seed 1" deep
Annual ryegrass	1 lb.	40 lbs.	Cover seed 1/4" deep*

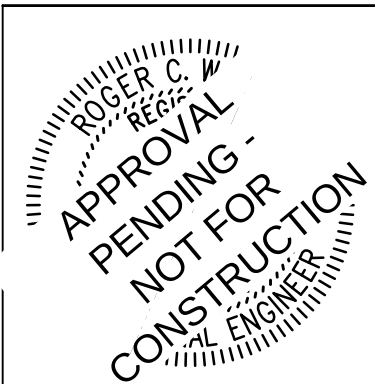
* Not necessary where mulch is applied.

EROSION CONTROL DETAILS

DRAWN BY: DBS
DATE: 01/19/17
FILE NAME: PAR/037/DWG/C105

REVISIONS:

TR & D, LLC
PROPOSED FREDDY'S
STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA



BY: D. Davis

DATE: 01-17-2017

SHEET
C105
OF
-

JOB#: TRD.001

(A2) PLAT MAP

N/A

(A3) PROJECT DESCRIPTION

The site is located at the intersection of Morton Street (US 31) and Simon Road in Franklin, Indiana. The overall site and disturbed area is approximately 1.04 acres. The existing site is undeveloped and is part of the Meijer Franklin Subdivision. Estimated start of construction – March 2017 and completion – March 2022.

(A4) VICINITY MAP

The vicinity map showing the project location can be seen on sheet C100.

(A5) LEGAL DESCRIPTION

The land description can be seen on sheet C101.

Latitude: N39° 30' 18"
Longitude: W86° 04' 14"

(A6) LOT LOCATION AND SITE IMPROVEMENTS

The lot boundaries, utility locations, driveways, structures and parking areas can be seen on the site plan (Sheet C101).

(A7) HYDROLOGIC UNIT CODE

HUC-14: # 05120204090030

(A8) REQUIRED STATE OR

FEDERAL WATER QUALITY PERMITS

None.

(A9) STORMWATER DISCHARGE POINTS

Stormwater from the proposed improvements will be collected by the proposed storm sewer system and outlet into an existing swale located in the US 31 right-of-way.

(A10) SITE WETLANDS, LAKES AND WATER COURSES

N/A.

(A11) RECEIVING WATERS

Stormwater from the proposed improvements will be collected by the proposed storm sewer system and existing swale. The ultimate receiving water is Youngs Creek via Canary Ditch.

(A12) POTENTIAL DISCHARGES TO GROUNDWATER

No sinkholes or uncapped abandoned wells have been identified on the project site or downstream of the project site.

(A13) 100 YEAR FLOODPLAIN, FLOODWAYS AND FRINGES

The site does not lie within the limits of a 100-yr floodplain. The Flood Map information can be seen on Sheet C103.

(A14) ESTIMATED PEAK DISCHARGE

EXISTING Conditions: 2-year run-off	3.57 cfs	PROPOSED Conditions: 2-year run-off	7.82 cfs
Existing Conditions: 10-year run-off	5.32 cfs	Proposed Conditions: 10-year run-off	11.49 cfs
Existing Conditions: 100-year run-off	7.46 cfs	Proposed Conditions: 100-year run-off	15.95 cfs

These numbers were calculated using the Rational method. These numbers were calculated using the Rational method.

(A15) ADJACENT LAND USE

The existing land uses adjacent to the site are as follows:

North: MXC (Commercial)
West: MXC (Commercial)
South: MXC (Commercial)
East: MXR (Commercial)

(A16) CONSTRUCTION LIMITS

The overall disturbed area is approximately 0.98 acres. Please see sheet C104 for the limits of construction.

(A17) EXISTING VEGETATIVE COVER

The existing site is currently vacant. The open space is mainly grass with landscaped areas at the perimeter of the site.

(A18) SOILS MAP

See sheet C104 for the soils map. Soil maps from the United States Department of Agriculture, Soil Conservation Service, identify Crosby silt loam (Cra – 43% of site) and Brookston silty clay loam (Br – 57%). The Crosby soils are classified as type 'C/D' soils while the Brookston soils are classified as type "B/D" soils.

The Crosby silt loam soils are nearly level soils. Runoff is generally slow and permeability is slow. The soil has severe limitations for nonfarm uses.

The Brookston silty clay loam soils are nearly level soils. Runoff is very slow and wetness is the main limitation. The soil has severe limitations for nonfarm uses.

(A19) PROPOSED STORMWATER DRAINAGE SYSTEM

The proposed stormwater drainage system consist of inlets and pipes. These items can be seen on sheet C103.

(A20) OFF-SITE CONSTRUCTION PLAN

N/A

(A21) SOIL STOCKPILE, BORROW AND/OR DISPOSAL

A soil stockpile may be needed for the project site. The stockpiles could be placed east of the proposed building.

(A22) EXISTING SITE TOPOGRAPHY

Existing contour elevations are shown on Sheet C2.

(A23) PROPOSED SITE TOPOGRAPHY

Proposed spot elevations are shown on Sheet C103.

(B1) POTENTIAL CONSTRUCTION POLLUTANTS

Potential pollutants sources relative to a construction site may include, but are not limited to material and fuel storage areas, fueling locations, exposed soils and leaking vehicle/equipment. Potential pollutants that may appear at the site due to construction activities include, but are not limited to diesel fuel, gasoline, concrete and concrete washout, solid waste, sediment, paint and solvents, equipment repair products, anti-freeze and fertilizer.

(B2) STORMWATER QUALITY SEQUENCE

STEP # 1: CONTRACTOR TO SETUP PRE-CONSTRUCTION MEETING WITH CITY OF FRANKLIN ENGINEER AND/OR MS4 COORDINATOR PRIOR TO CONSTRUCTION. CONTRACTOR TO INSTALL CONSTRUCTION STAGING AREA, PLACE PERIMETER SILT FENCE AND EXISTING INLET SEDIMENT PROTECTION PRIOR TO THE PRE-COM MEETING (1 WEEK PRIOR TO THE START OF CONSTRUCTION).

STEP # 2: OVERALL EARTH WORK SHALL BEGIN THE SECOND WEEK OF CONSTRUCTION, INCLUDING STRIPPING TOPSOIL, PREPARING PARKING LOT SUBGRADE, AND PREPARING THE BUILDING PAD. TEMPORARY SEED ALL DISTURBED AREAS IF CONSTRUCTION ACTIVITIES ARE NOT ANTICIPATED WITHIN TEN DAYS AFTER INITIAL DISTURBANCE. (THROUGHOUT THE DURATION OF THE PROJECT)

STEP # 3: CONSTRUCTION OF STORM SEWER, SANITARY LATERAL, WATERLINE, AND UTILITIES MAY BEGIN. INSTALL INLET SEDIMENT BARRIERS UPON CONSTRUCTION OF INLETS. AN EXCAVATED DROP INLET SHALL BE PLACED UNTIL INLETS HAVE PAVEMENT AROUND THEM AND SEDIMENT BARRIERS CAN BE PLACED (WITHIN ONE MONTH OF CONSTRUCTION).

STEP # 4: CONTRACTOR SHALL TEMPORARY SEED ANY DISTURBED AREAS DURING CONSTRUCTION OF STORM SEWER, SANITARY SEWER, WATERLINE, UTILITIES OR ROADWAYS. (THROUGHOUT THE DURATION OF THE PROJECT)

STEP # 5: FINISH GRADE SWALES, SLOPES, & MOUNDS. SEED ALL AREAS AS NOTED, AND INSTALL EROSION CONTROL BLANKETING WHERE NOTED.

STEP # 6: COMPLETE DRIVE AISLES/PARKING AREAS. INSTALL PAVEMENT AREA INLET PROTECTION.

STEP # 7: CONSTRUCT BUILDING AND FINAL GRADE OF LANDSCAPE AREAS.

STEP # 8: INSTALL LANDSCAPING AND FINAL SEEDING. SUBMIT IDEM NOT TO IDEM.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STATE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY SEED) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 15 DAYS OR MORE.

GENERAL NOTES

- CONTRACTOR TO SETUP PRECON MEETING WITH CITY OF FRANKLIN MS4 COORDINATOR PRIOR TO ANY DEMOLITION/EARTH DISTURBING ACTIVITIES. CONTRACTOR SHALL INSTALL ALL REQUIRED SILT FENCES, SILT TRAPS, TREE PROTECTION AND INLET PROTECTION FOR EXISTING INLETS PRIOR TO THE START OF ANY EARTH MOVING OR STRIPPING.
- CONTRACTOR SHALL INSTALL A STONE CONSTRUCTION ENTRANCE OR SOME OTHER DEVICE PRIOR TO THE START OF EARTHWORK AS NECESSARY TO PREVENT SOIL FROM BEING TRACKED OR WASHED INTO EXISTING ROADWAYS.
- LAND ALTERATIONS WHICH STRIP THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. AS GRADING IS DONE, INSTALL SILT TRAPS, SILT FENCES, SLOPE DRAINS, TEMPORARY DIVERSIONS AND OTHER RUNOFF CONTROL MEASURES AT APPROPRIATE LOCATIONS TO KEEP SEDIMENT CONTAINED ON SITE.
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- PERMANENT AND FINAL VEGETATION OR STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS SOON AS PRACTICAL UNDER THE CIRCUMSTANCES.
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- ALL STORM SEWER INLET PROTECTION DEVICES SHALL BE PUT IN PLACE AT THE TIME EACH INLET IS CONSTRUCTED.
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES AND DEVICES DURING CONSTRUCTION AND UNTIL THE NOTICE OF TERMINATION IS APPROVED.
- ONCE ONSITE EROSION AND SILTATION OF THE STREETS AND STORM SEWERS WILL BE COMPLETED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY EROSION CONTROL DEVICES.
- THESE GENERAL PROCEDURES MAY NOT COVER ALL SITUATIONS. REFER TO EROSION CONTROL PLANS FOR SPECIFIC NOTES AND ADDITIONAL DETAILS
- EROSION CONTROL TO COMPLY WITH INDIANA 327 IAC AND RULE #5, AND INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.

(B3) CONSTRUCTION ENTRANCE INFORMATION

The location of the construction entrance is on sheet C104. The construction entrance specifications are on sheet C103. Geotextile fabric shall be placed under the stone layer of the construction entrance.

(B4) SHEET FLOW SEDIMENT CONTROL

The use of silt fence will be used as erosion control measures for sheet flows. The location of each measure can be seen on sheet C104. The details and specifications for each stated sediment control measure is on sheet C105.

(B5) CONCENTRATED FLOW SEDIMENT CONTROL

Temporary seeding will be used as erosion control measures for concentrated flows. The location of each measure is located on sheet C104. The details and specifications for each stated sediment control measure is on sheet C105.

(B6) INLET PROTECTION LOCATIONS AND SPECS

The location of each inlet protection measure is on sheet C104. The details and specifications for each inlet measure are on sheet C105.

(B7) RUNOFF CONTROL MEASURES

The locations of each measure are on sheet C104. The details and specifications of each runoff control measure are on sheet C105.

(B8) OUTLET PROTECTION SPECIFICATIONS

Rip-rap shall be placed at the proposed end section outlet at the existing swale along US 31. The location of this measure is shown on sheet C104. The details of this measure are shown on sheet C105.

(B9) GRADE STABILIZATION MEASURES

N/A

(B10) STORMWATER QUALITY DETAILS

The use of silt fence, inlet protection, seeding will be used for stormwater quality during construction. The location of stormwater quality measures are on sheet C104. The stormwater quality details & specifications are provided on sheet C105.

(B11) TEMPORARY SURFACE STABILIZATION

Temporary seeding will be used as temporary surface stabilization measures. The location of each temporary surface stabilization measure are on sheet C104. The details and specifications for each stated measure are on sheet C105.

(B12) PERMANENT SURFACE STABILIZATION

Permanent seeding will be used as permanent surface stabilization measures. The location of each permanent surface stabilization measure are on sheet C104. The details and specifications for each stated measure are on sheet C105.

(B13) MATERIAL HANDLING AND SPILL PREVENTION

Expected materials that may appear at the site due to construction activities include, but are not limited to petroleum products, fertilizers, paint and solvents, and concrete. Materials shall be stored in the designated material storage area.

Spill prevention for vehicle and equipment fueling shall conform to the following practices: vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures. Limitations: Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with a Stabilized Construction Entrance/Exit. Implementation: Use offsite fueling stations as much as possible. Discourage "topping-off" of fuel tanks. Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use. Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area. Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly. Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. Train employees and subcontractors in proper fueling and cleanup procedures. Dedicated fueling areas should be protected from stormwater runoff and runoff, and should be located at least 50 ft away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade area. Protect fueling areas with berms and dikes to prevent runoff, runoff, and to contain spills. Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended. Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site. Keep ample supplies of spill cleanup materials onsite. Immediately clean up spills and properly dispose of contaminated soils.

Spill prevention for solid waste shall conform to the following practices: Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors. Solid waste generated from trees and shrubs removed during land clearing, demolition, and building construction. Packaging materials including wood, paper, and plastic. Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products. Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes. Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, Styrofoam and other package construction materials. Select designated waste collection areas onsite. Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight. Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy. Plan for additional containers and more frequent pickup during the demolition phase of construction. Collect site trash daily, especially during rainy and windy conditions. Remove this solid waste promptly since erosion and sediment control devices tend to collect litter. Make sure that toxic liquid wastes (sued oils, solvents and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for construction debris. Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor. Arrange for regular waste collection before containers overflow. Clean up immediately if a container does spill. Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located at least 50 ft from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding. Inspect construction waste area regularly. Arrange for regular waste collection.

Spill prevention for concrete washout shall conform to the following practices: Store dry and wet materials under cover, away from drainage areas. Avoid mixing excess amounts of fresh concrete. Perform washout of concrete trucks offsite or in designated areas only. Do not wash out concrete trucks into storm drains, open ditches, streets, or streams. Do not allow excess concrete to be dumped onsite, except in designated areas. Create washout areas at least 50 ft from storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste. Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly. Avoid creating runoff by draining water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate. Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

The cleanup parameters shall conform to the following practices: The developer / homeowners association shall be continually kept informed, maintain lists of qualified contractors and available Vac-Trucks, tank pumps and other equipment readily accessible for cleanup operations. In addition, a continually updated list of available absorbent materials and cleanup supplies should be kept on site. All maintenance personnel will be made aware of techniques for prevention of spills. They will be informed of the requirements and procedures outlined in this plan. They will be kept abreast of current developments or new information on the prevention of spills and / or necessary alteration to this plan. When spills occur which could endanger human life and this become primary concern, the discharge of the life saving protection function will be conced out by the local fire department. Absorbent materials, which are used in cleaning up spilled materials, will be disposed of in a manner subject to the approval of the Indiana Department of Environmental Management. Flushing of spilled material with water will not be permitted unless so authorized by the Indiana Department of Environmental Management.

Spill prevention for vehicle and equipment maintenance shall conform to the following practices: Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately. These procedures are suitable on all construction projects where an onsite yard area is necessary for storage and maintenance of heavy equipment and vehicles. Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles / equipment offsite should by done in conjunction with a stabilized construction entrance / exit. Out door vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (engine fluid leaks). If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runoff and runoff, and should be located at least 50 ft from downstream drainage facilities and water courses. Drip pans or absorbent pads should be used during vehicle and equipment maintenance work that involves fluids, unless the maintenance work is performed over an impermeable surface in a dedicated maintenance area. Place a stockpile of spill cleanup materials where it will be readily accessible. All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices. Use absorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly. Inspect onsite vehicles and equipment daily at startup for leaks, and repair immediately. Deep vehicles and equipment clean, do not allow excessive buildup of oil and grease. Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite. Train employees and subcontractors in proper maintenance and spill cleanup procedures. Drip pans or plastic sheeting should by placed under all vehicles and equipment placed on docks, barges, other structures over water bodies where equipment is planned to be idle for more than 1 hour. Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Properly dispose of or recycle used batteries. Do not place used oil in a dumpster or pour into a storm drain or water course. Properly dispose of used oils, fluids, lubricants, and spill cleanup materials. Do not bury tires. Repair leaks of fluids and oil immediately.

Spill prevention for fertilizers shall conform to the following practices: Fertilizer's used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Spill prevention for paint and solvents shall conform to the following practices: All containers will be tightly sealed and stored when not required for use. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM but will be properly disposed of according to manufacturers' instructions or State or local regulations.

Spill prevention and cleanup shall conform to IDEM form 327 IAC 2-6 and the Franklin Fire Department (888-736-3650), Franklin Engineering Department (877-736-3631) and IDEM Spill Response Center (888-233-7745) shall be contacted in the case of a material spill occurring.

(B14) MONITORING AND MAINTENANCE GUIDELINES

EROSION CONTROL SCHEDULE		
EROSION CONTROL MEASURE	* MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
INLET PROTECTION	WEEKLY AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	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	WEEKLY AFTER STORM EVENTS AND AS NEEDED	ALONG WITH ROUGH GRADING
RIP-RAP HORSESHOE	WEEKLY AFTER STORM EVENTS AND AS NEEDED	IMMEDIATELY AFTER DRY-DETENTION BASIN CONSTRUCTION
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL MATTING	WEEKLY AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
SEED, SOIL & LANDSCAPE AROUND BUILDING ADDITION	WATER AS NEEDED	AFTER FINISHED GRADING AROUND BUILDING ADDITION
REMOVAL OF INLET PROTECTION	N/A	AFTER NOT IS APPROVED
REMOVAL OF SILT FENCE	N/A	AFTER NOT IS APPROVED
REMOVAL OF RIP RAP HORSESHOE	N/A	AFTER NOT IS APPROVED

* - SEE CHART FOR MAINTENANCE REQUIREMENTS

(B15) EROSION CONTROL MEASURES FOR INDIVIDUAL BULDING LOTS

Lot 5 shall be permanently seeded upon completion of the building pad and mass earthwork activities. the details and specifications for this measures are located on sheet C105. Any sediment and erosion control measures associated with the development of Lot 5 will be part of the construction plans for that site.

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

SILT FENCE MAINTENANCE REQUIREMENTS

- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES EFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
- AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

TEMPORARY SEDIMENT TRAP MAINTENANCE REQUIREMENTS

- INSPECT TEMPORARY SEDIMENT TRAPS AFTER EACH STORM EVENT AND IMMEDIATELY REPAIR ANY EROSION AND PIPING HOLES.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH.
- REPLACE SPILLWAY GRAVEL FACING IF CLOGGED.
- INSPECT VEGETATION, AND RE-SEED IF NECESSARY.
- CHECK THE SPILLWAY DEPTH PERIODICALLY TO ENSURE A MINIMUM OF 1.5 FT. DEPTH FROM THE LOWEST POINT OF THE SETTLED EMBANKMENT TO HIGHEST POINT OF THE SPILLWAY CREST, AND FILL ANY LOW AREAS TO MAINTAIN DESIGN ELEVATION.
- PROMPTLY REPLACE ANY DISPLACED RIPRAP, BEING CAREFUL THAT NO STONES IN THE SPILLWAY ARE ABOVE DESIGN GRADE.
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, REMOVE THE STRUCTURE AND SEDIMENT, SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS, AND STABILIZE.

SANDBAR CURB INLET SEDIMENT BARRIER MAINTENANCE REQUIREMENTS

- INSPECT FREQUENTLY FOR DAMAGE BY VEHICULAR TRAFFIC, AND REPAIR IF NECESSARY.
- INSPECT AFTER EACH STORM EVENT.
- REMOVE SEDIMENT, WITHOUT FLUSHING, WHEN IT REACHES HALF THE HEIGHT OF THE BARRIER.
- DEPOSIT REMOVED SEDIMENT WHERE IT WILL NOT ENTER STORM DRAINS.

BLOCK AND GRAVEL CURB INLET PROTECTION MAINTENANCE REQUIREMENTS

- AFTER EACH STORM EVENT, REMOVE THE SEDIMENT AND REPLACE THE GRAVEL; REPLACE THE GEOTEXTILE FABRIC, IF USED.
- PERIODICALLY REMOVE SEDIMENT AND TRACKED-ON SOIL FROM THE STREET, WITHOUT FLUSHING, TO REDUCE THE SEDIMENT LOAD ON THE CURB INLET PROTECTION.
- INSPECT PERIODICALLY FOR DAMAGE AND REPAIR, KEEP GRATES FREE OF DEBRIS.
- WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE GRAVEL, WIRE MESH, GEOTEXTILE FABRIC, AND ANY SEDIMENT, AND DISPOSE OF THEM PROPERLY.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS

- DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
- IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, AND SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
- AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS

- INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- TOPRESS WITH CLEAN STONE AS NEEDED.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.
- REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

POST-CONSTRUCTION WATER QUALITY REQUIREMENTS

(C1) POTENTIAL LAND USE POLLUTANTS

Potential pollutant sources that may appear at the site due to proposed land use activities, but are not limited to vehicles, exposed soil and trash. Potential pollutants include, but are not limited to cooking oil, grease, litter, de-greasing cleansers, diesel fuel, gasoline, anti-freeze and fertilizer.

(C2) STORMWATER QUALITY IMPLEMENTATION

Final stormwater quality measures will be implemented as outlined in the Operations & Maintenance Manual. Please refer to Section C5.

(C3) STORMWATER QUALITY DESCRIPTION

The use of a Aqua Swirl AS4 water quality unit will be the primary BMP to remove sediment from the post-construction run-off. Permanent seeding and the keeping vegetative cover in the flowline of the detention basin will also help in the reduction of pollutants in stormwater run-off.

(C4) STORMWATER QUALITY SPECIFICATIONS

The location of each post-construction stormwater quality measure can be seen on sheet C102. The details and specifications of each measure is on sheet C802.

(C5) MAINTENANCE GUIDELINES

An Operations & Maintenance Manual has been prepared for this site. The Owner is responsible for implementing and reporting the post-construction water quality measures as outlined in the O&M Manual.

Any debris in the parking areas should be picked up and placed in the trash receptacle. The parking area shall be kept clean and be swept every 3 months.

Aqua Swirl AS4
Inspect the unit every six months and clean the system as needed. Inspect and clean the system once annually regardless of whether it has reached its sediment or floatable pollutant storage capacity. Call a local vector company to remove sediments, oil, and other floatable pollutants with a vector. Dispose of all waste in accordance with federal, state and local requirements. Water and sediment from cleaning procedures should NOT be dumped into a sanitary sewer.

EROSION CONTROL CONTACT

TR&D, LLC
TIM ROHRER
P.O. BOX 1647
COLUMBUS, IN 47202
812-343-1505



EROSION CONTROL SPECIFICATIONS

DRAWN BY: DBS
DATE: 03/19/17
CHECKED BY: JAC
IN CHARGE: PHW/02/PHW/C106
PROJECT:

TR & D, LLC PROPOSED FREDDY'S STEAKBURGERS 2306 N. MORTON STREET FRANKLIN, INDIANA



BY: *R. Ward*

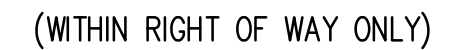
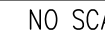
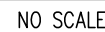
DATE: 01-17-2017

SHEET
C106
OF
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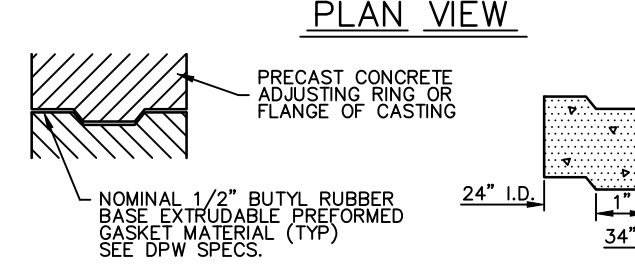
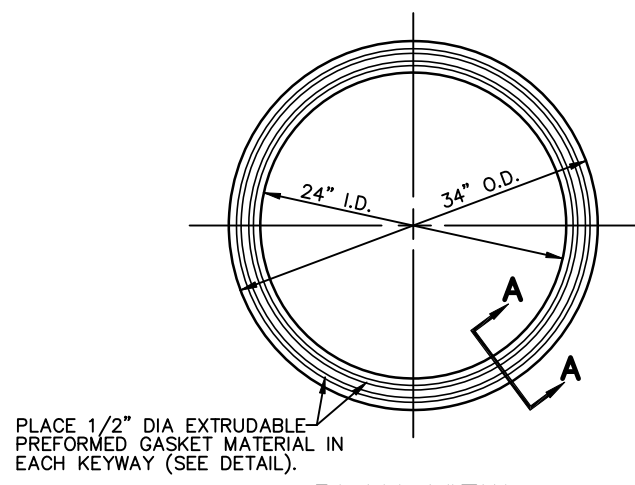
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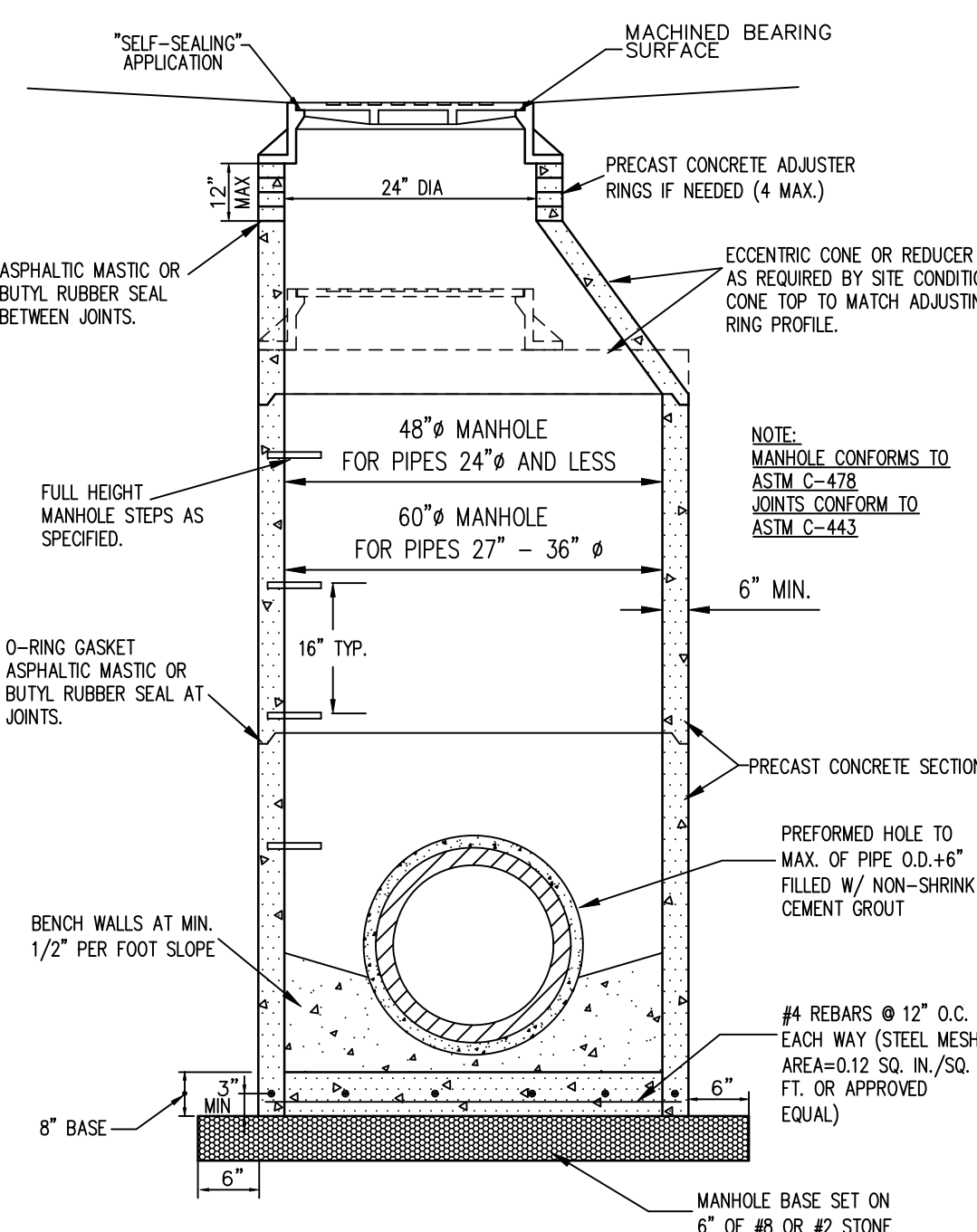
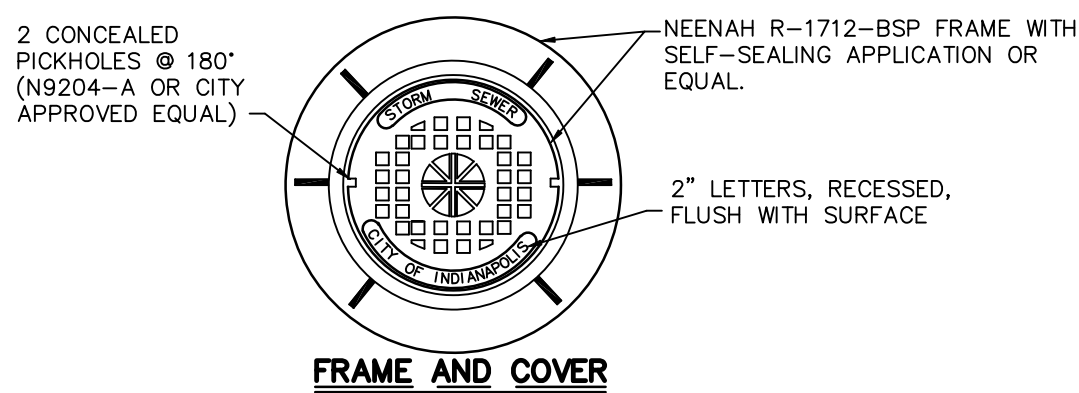
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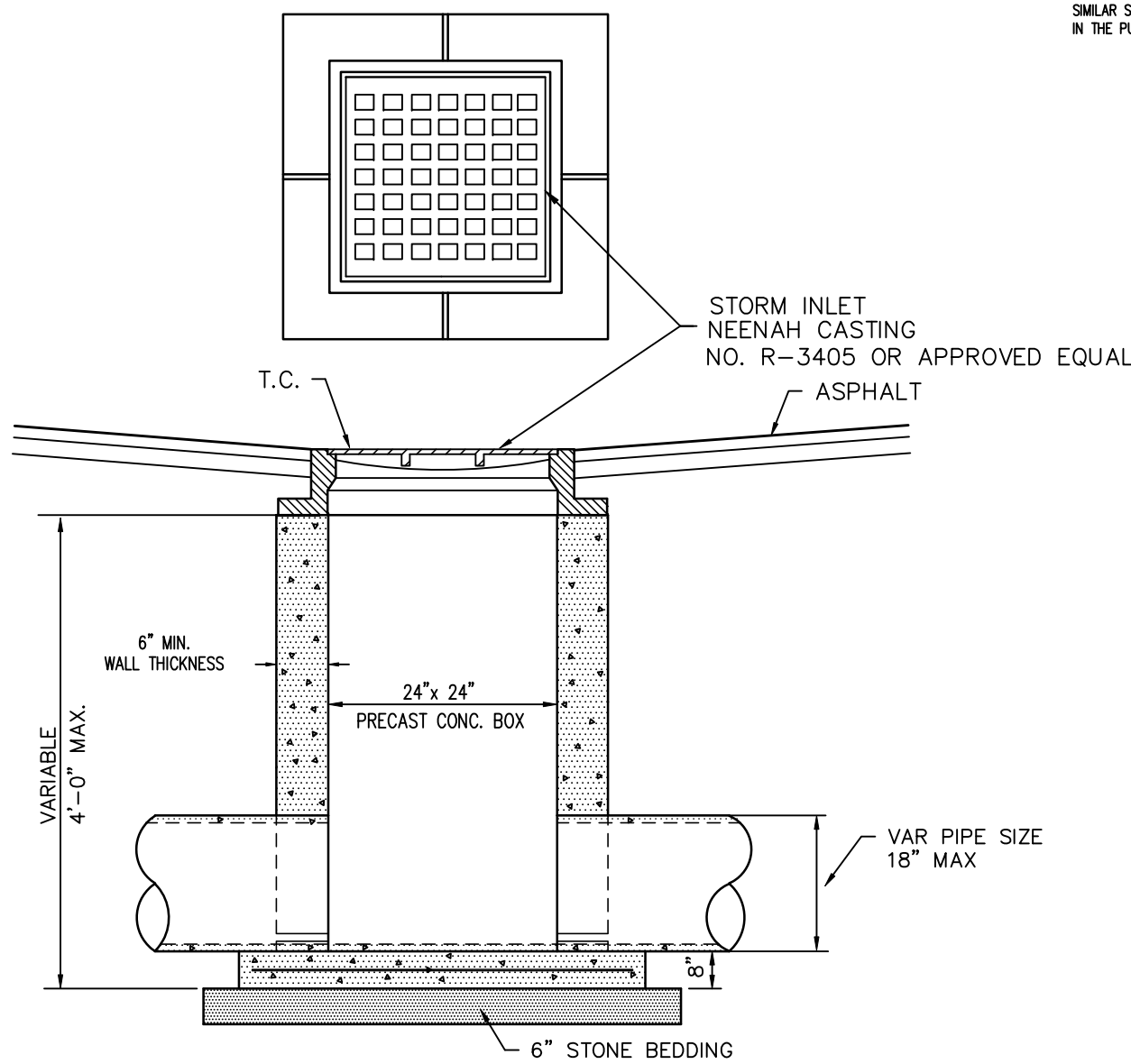
ADJUSTING RING DETAIL
(FIGURE 300.08)



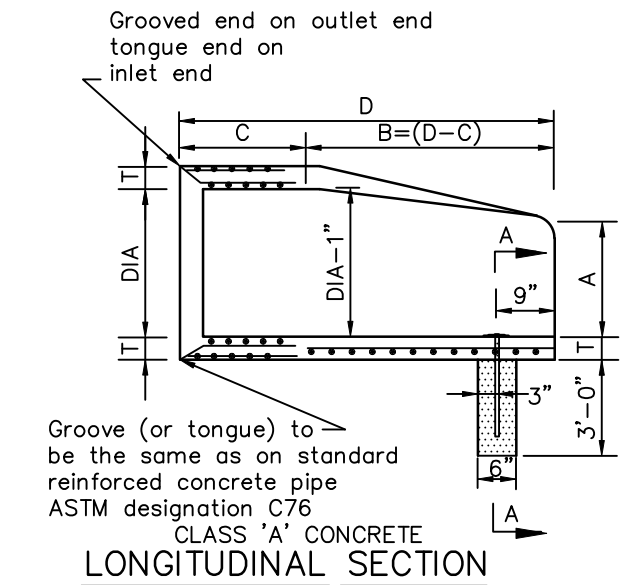
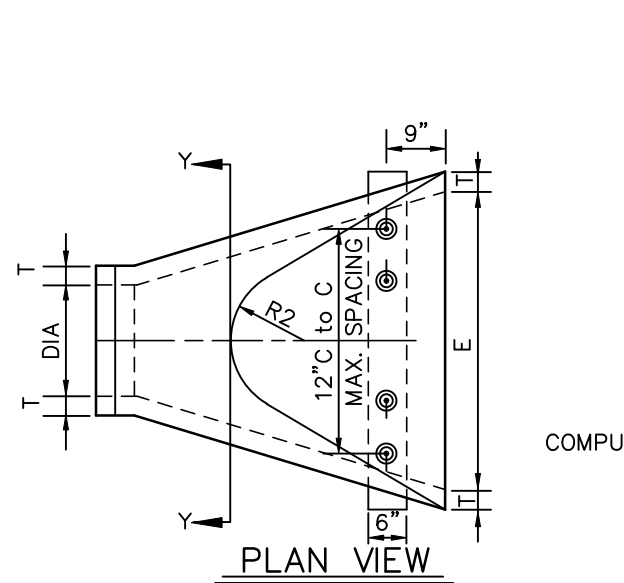
MANHOLE SIZE	PIPE	PIPE TURNS
96"	48"	GREATER THAN 45° TO 90°
96"	54"-66"	UP TO 60°
84"	42"	GREATER THAN 45° TO 90°
84"	48"	UP TO 45°
72"	42"-48"	UP TO 45°
72"	33"-36"	GREATER THAN 45° TO 90°
60"	27"-36"	STRAIGHT THRU
60"	24"-33"	GREATER THAN 45° TO 90°
48"	12"-24"	STRAIGHT THRU

STORM SEWER MANHOLE
NOTE: MANHOLE STEPS SHALL BE MADE FROM A STEEL REINFORCING ROD ENCAPSULATED IN A COPOLYMER POLYPROPYLENE RESIN. THE MANHOLE STEPS SHALL BE EQUAL OR EXCEED CSA REQUIREMENTS. MANHOLE STEPS, MANUFACTURED BY M.A. INDUSTRIES, INC., PS-1-PF, CLAY & BAILEY MFG. CO., OR EQUAL ARE ACCEPTABLE.

STRUCTURE 101

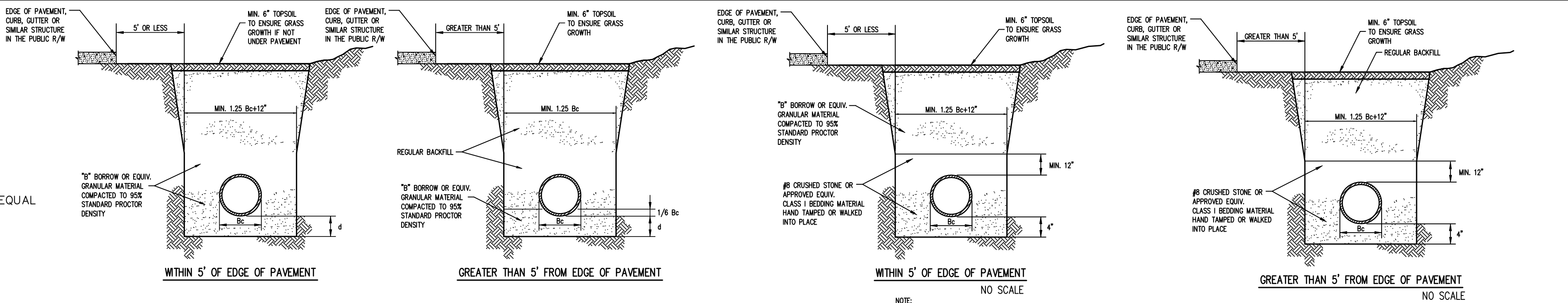


TYPICAL PAVED AREA INLET STRUCTURES 102, 103



DIMENSIONS OF CONCRETE END SECTIONS FOR ROUND PIPE									
DIA	T (MIN)	A *	C *	D *	E *	K	R ₁	R ₂	APPROX. WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1,100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1,300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1,500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"	1,800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 1/2"	14 1/2"	2,100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 3/16"	15"	2,400
33"	3 3/4"	1'-3"	3'-6"	8'-3"	5'-6"	3.1	18 1/2"	17 1/2"	4,100
36"	4"	1'-5"	3'-1"	8'-3"	6'-0"	3.4	23 3/4"	20"	4,200
48"	5"	2'-0"	2'-2"	8'-2"	7'-0"	2.8	1/8"	22"	6,500

PRECAST CONCRETE END SECTION STRUCTURE 100

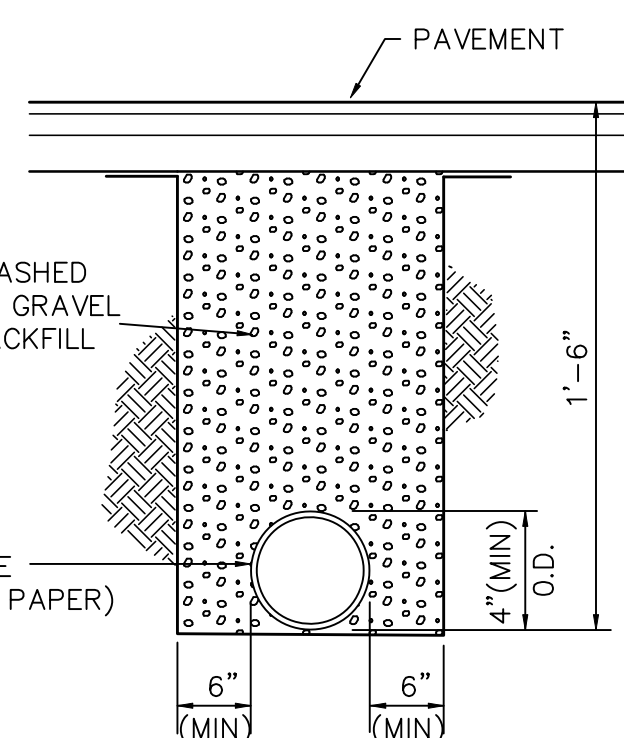


TRENCH DETAIL
REINFORCED CONCRETE PIPE (RCP)

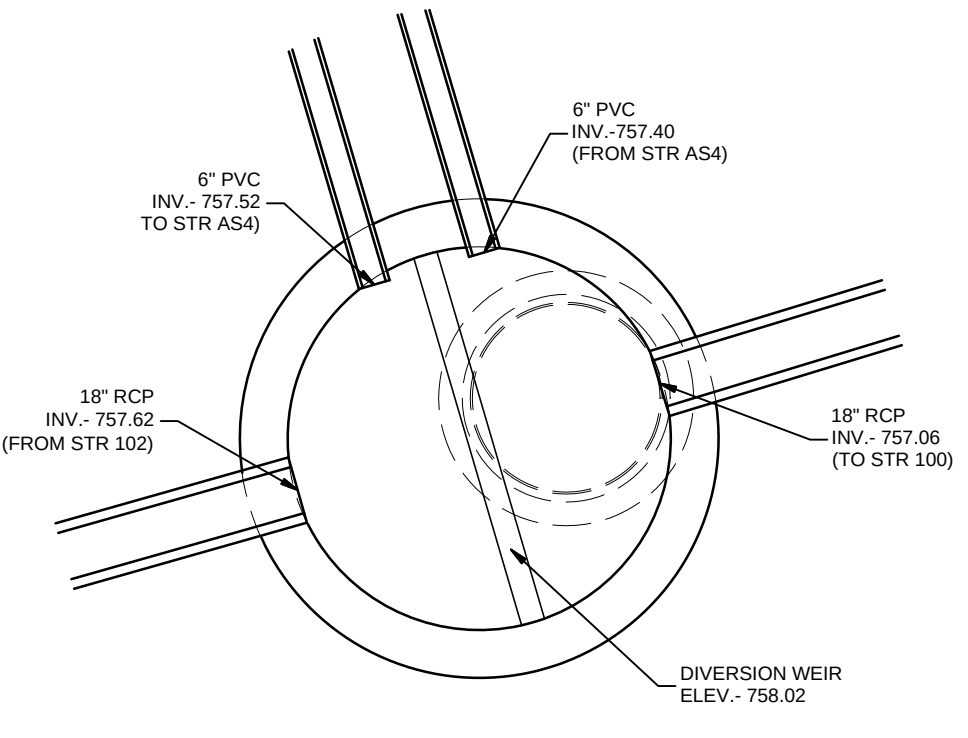
TRENCH DETAIL
PLASTIC PIPE (PVC & HDPE)
D.C.A.M. # 501-05

TRENCH DETAIL
PLASTIC PIPE (PVC & HDPE)
D.C.A.M. # 501-05

TRENCH DETAIL
PLASTIC PIPE (PVC & HDPE)
D.C.A.M. # 501-06

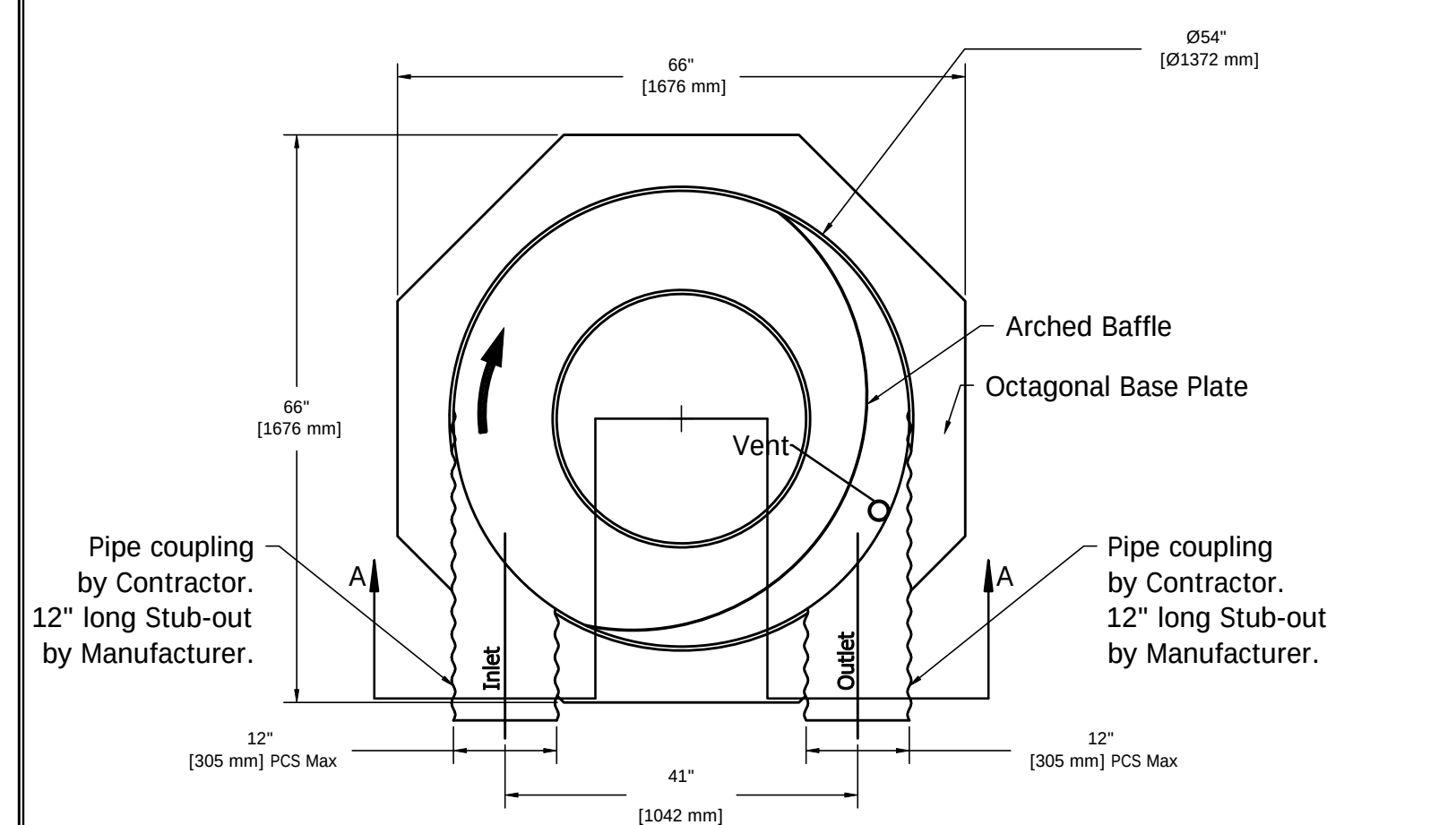
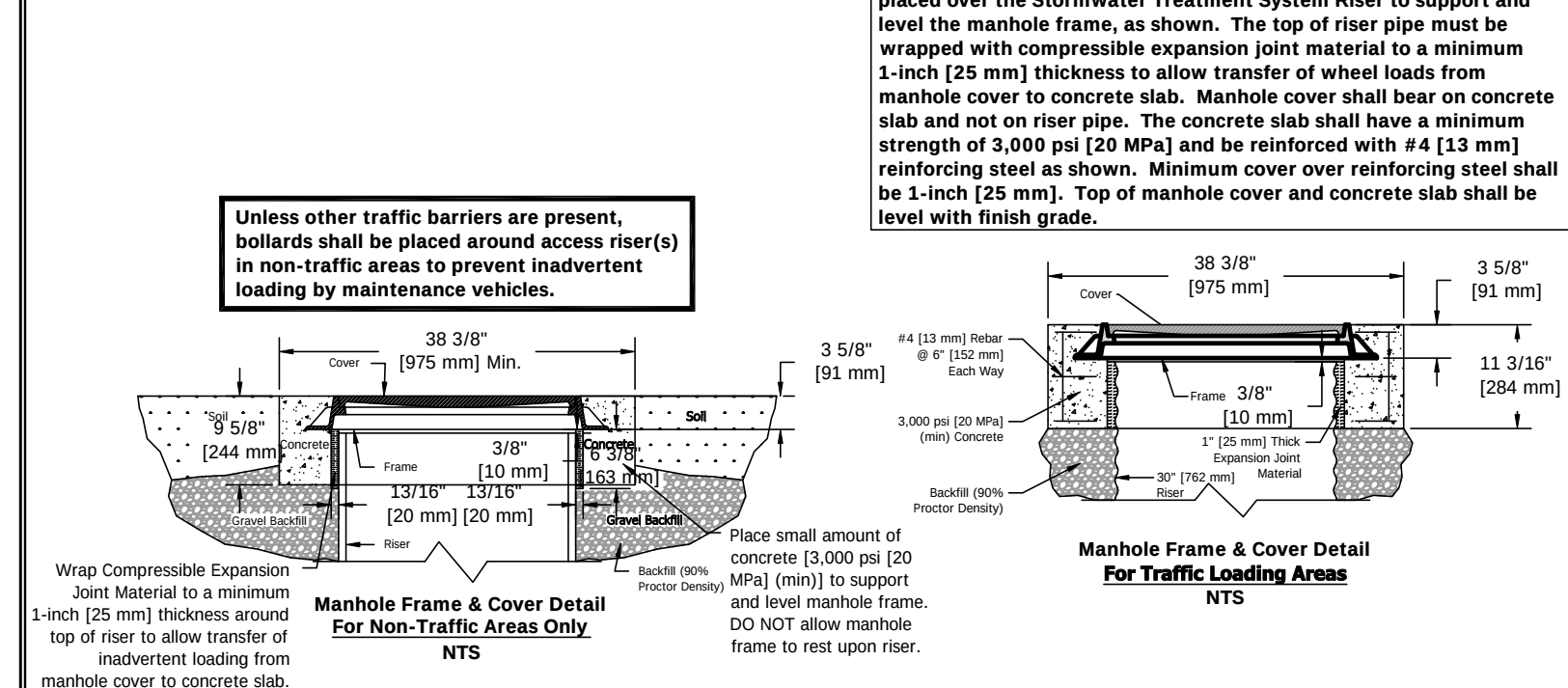


PIPE UNDERDRAIN IN PARKING LOTS



STR #101 - DIVERSION STRUCTURE

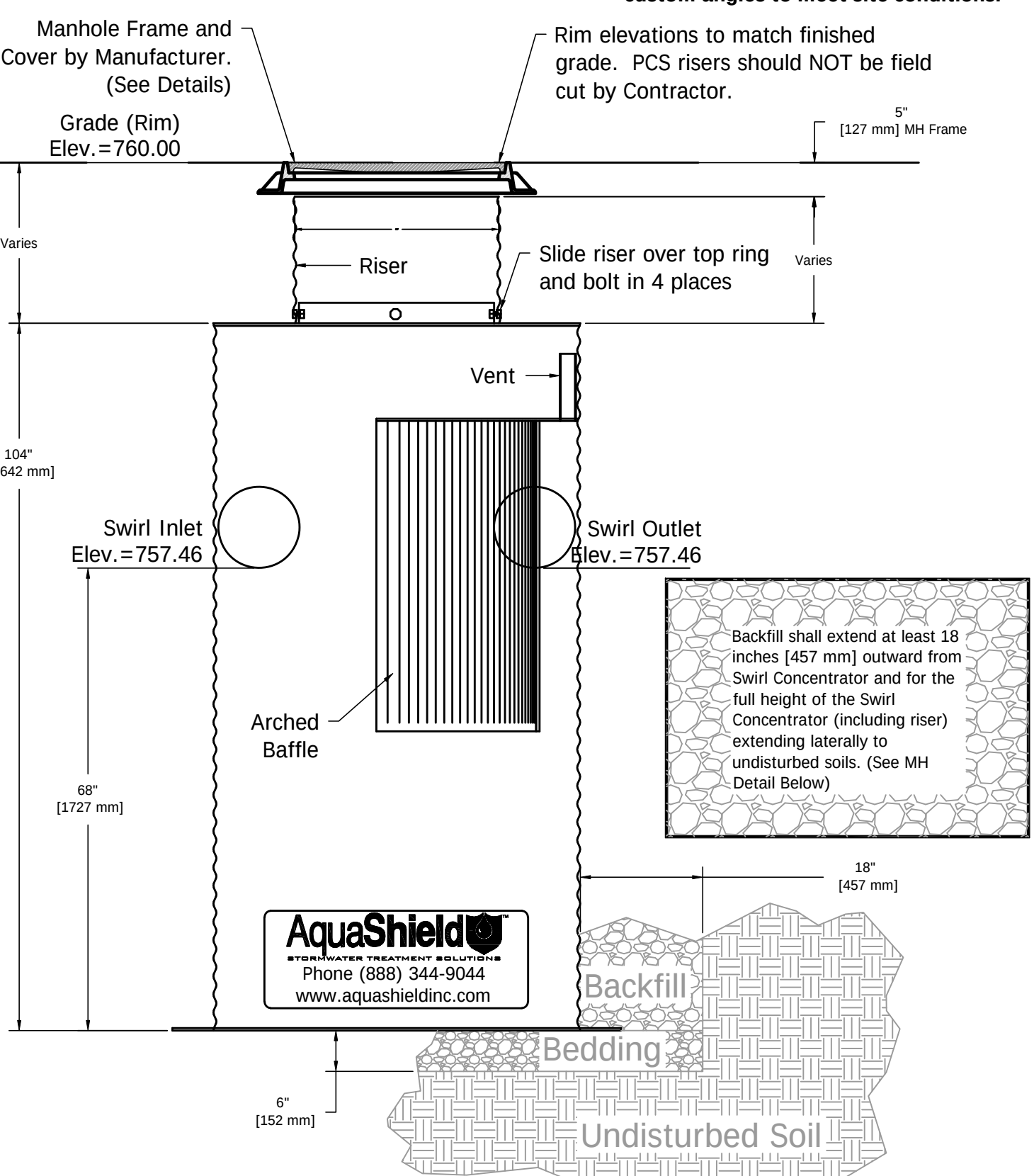
Aqua-Swirl Polymer Coated Steel (PCS) Stormwater Treatment System



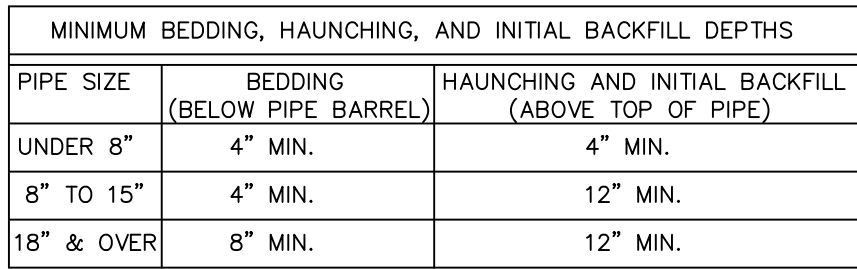
Plan View

AquaShield
2705 Kanasta Drive, Chattanooga, TN 37343
Phone (888) 344-9044 Fax (423) 828-2112
www.aquashieldinc.com

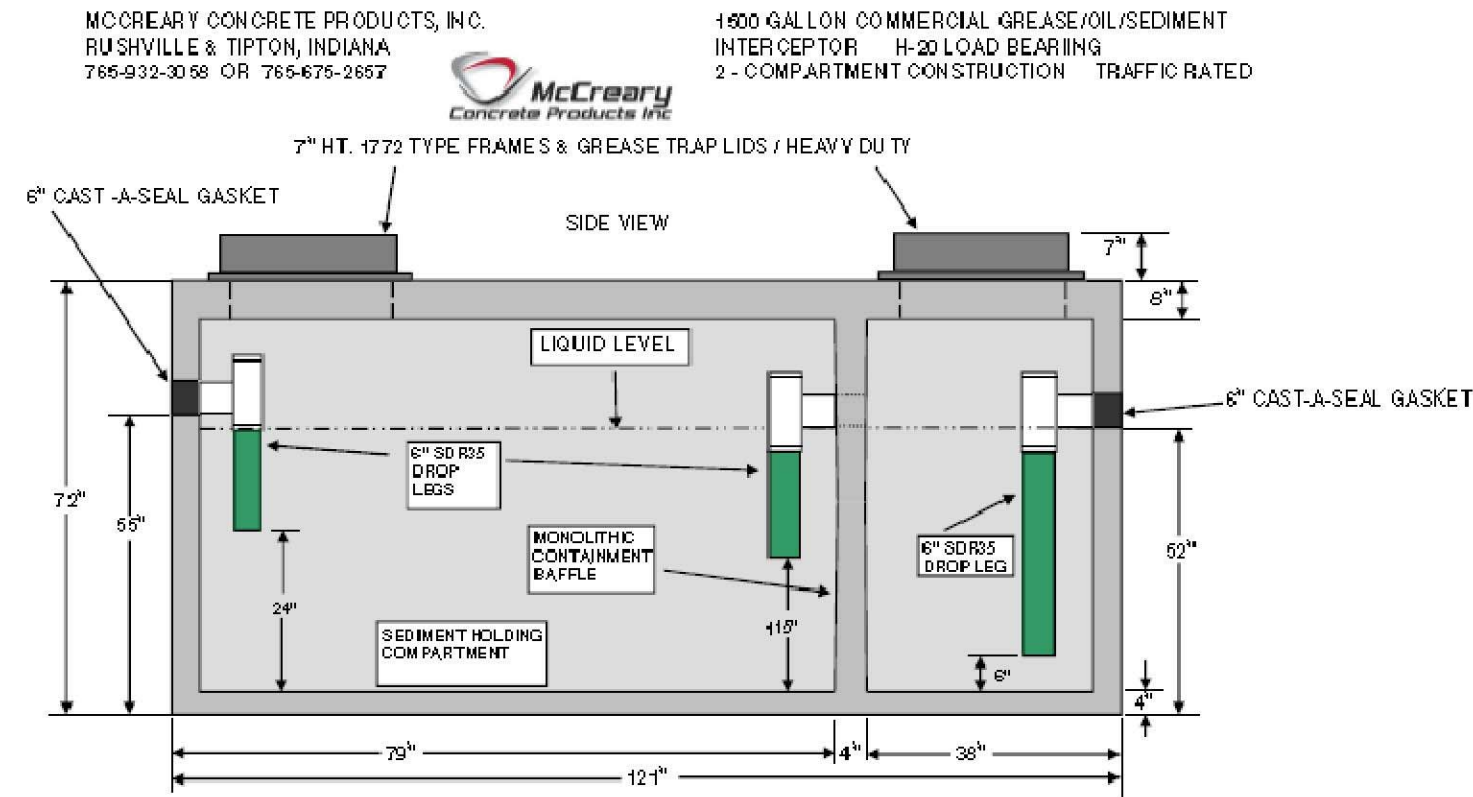
Note: As an alternative, 42-inch OD, H-20 rated precast concrete rings may be substituted. 14-inch thickness must be maintained.



Section A-A



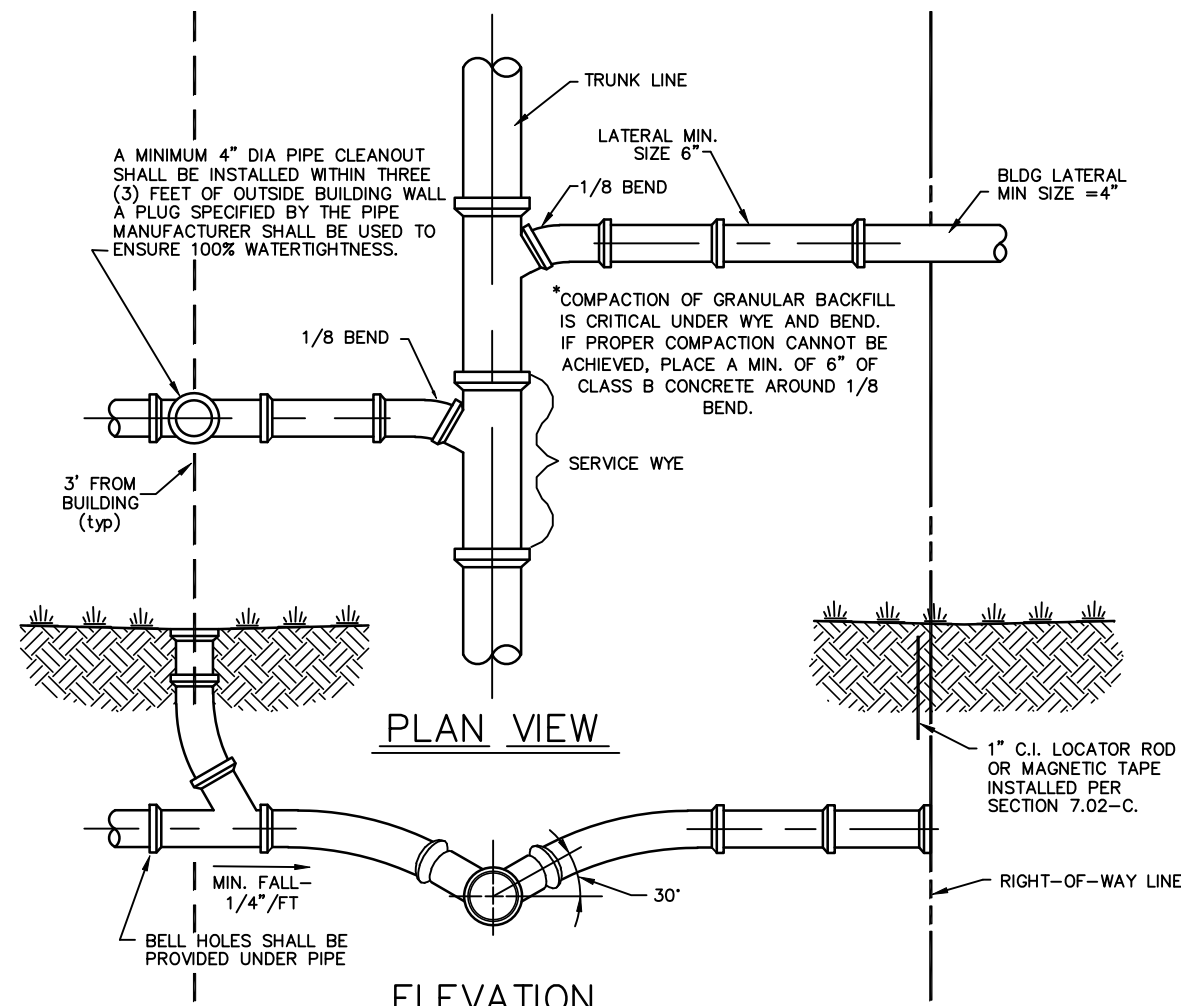
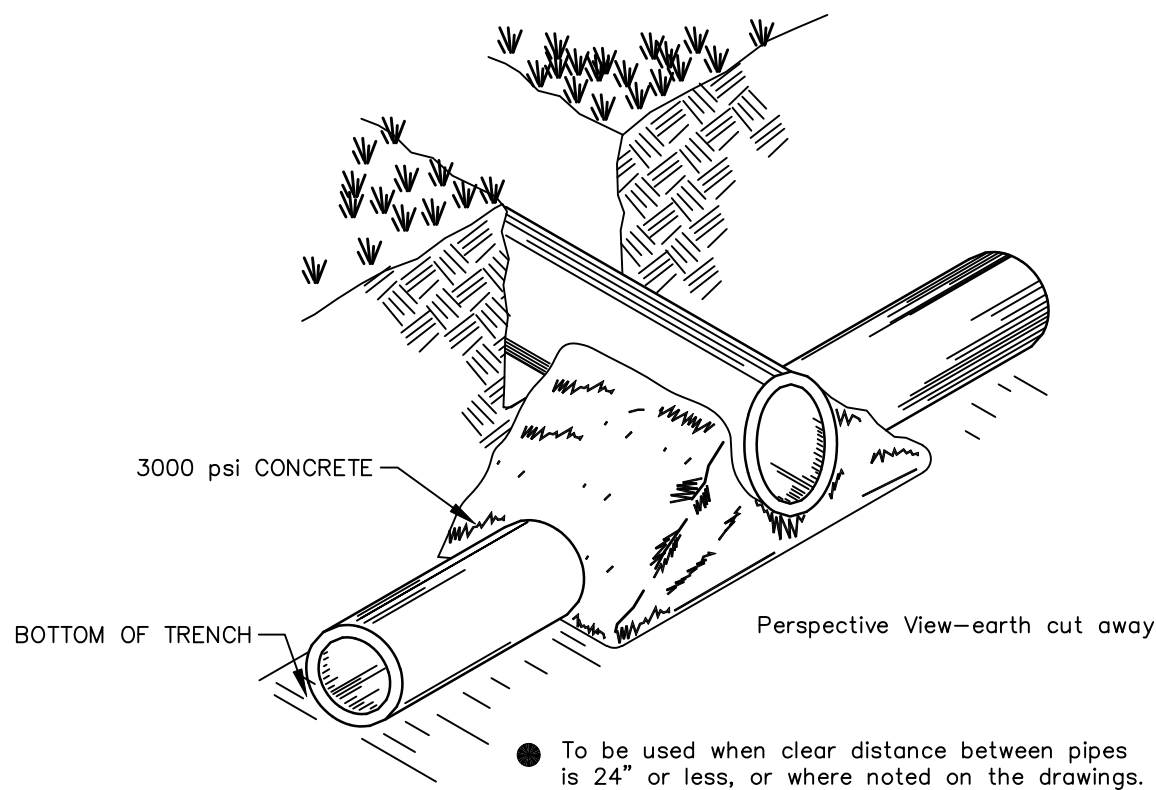
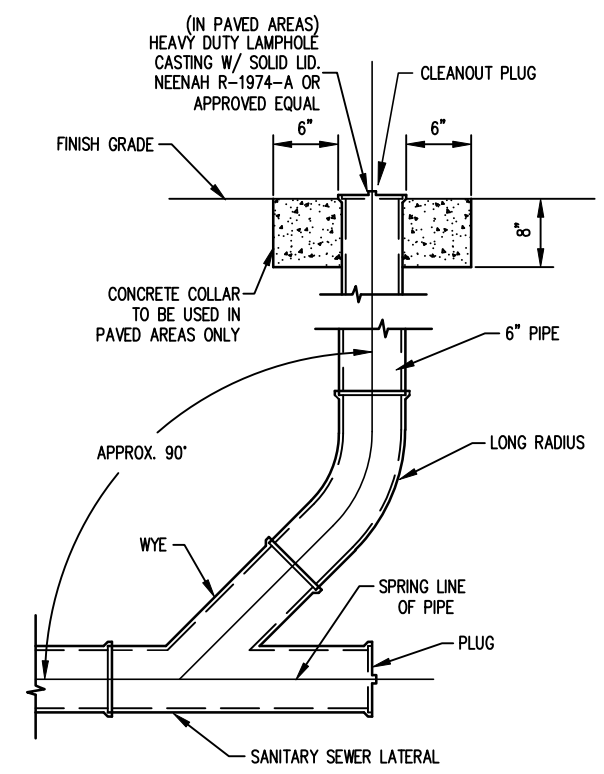
MINIMUM TRENCH WIDTHS	
PIPE SIZE	MINIMUM WIDTH
UP TO 18"	O.D. + 16"
18" & OVER	(O.D. x 1.25) + 12"



NOT TO SCALE

STRUCTURE WEIGHT 17123 LBS.

RC37 2013



LESS THAN 15' DEEP
(FIGURE 7-4)

GENERAL DETAILS

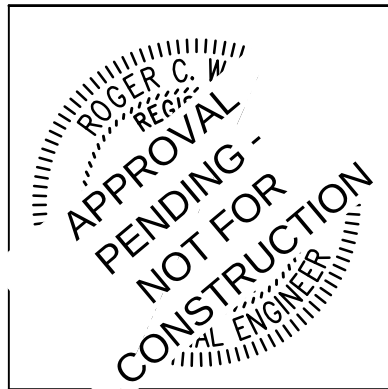
DRAWN BY: DBS
DATE: 01/19/17
FILE NAME: PAR/037/DWG/C801
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TR & D. IIC

PROPOSED FREDDY'S
STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA



BY: Roger C. Welch

DATE: 01-17-2017

SHEET
C803
OF
-

JOB#: TRD.001

LANDSCAPE NOTES

All species of plant materials and substitutions thereof are subject to acceptance by the City of Franklin Planning Department approval and of the Owner(s) or a representative of the Owner(s). All plant materials are to be warranted for a period of no less than one year from final acceptance by the Owner(s) or a representative of the Owner(s). All plant material is to be planted in a manner that ensures its survival. Any environmental or other type of situation that is noted by the landscape Contractor that could potentially injure the plant or shorten its longevity is to be made known to the Owner(s) and potential substitutions or corrections to the situation can be made at no expense to the Contractor. All materials failing the one year warranty period are to be replaced at the expense of the Landscape Contractor. Any deviation from responsible landscape practices and the Town of Fishers Zoning Ordinance will result in the immediate termination of the Landscape Contract and the Contractor will pay all costs associated with the corrections. All plant material is to come from respectable sources within 100 miles of the site on which it is being installed. If no source for a plant species is available within this area, the project Landscape Architect/Engineer is to be notified immediately to make a determination of possible options. All plant material is subject to approval by the project Landscape Architect/Engineer prior to installation and may be rejected for reasons of health, aesthetics, size or other reasonable causes.

The Landscape Contractor is responsible for the timely installation of all material in his contract. Should there be a delay due to weather or other unforeseeable, natural circumstances, the timeline will be adjusted.

PLANTING CALCULATION

PARKING LOT PERIMETER (MORTON STREET)

435 L.F. FRONTAGE 1/80 = 5.44

TREES PROVIDED @ 7

SHRUBS @ 1/80 = 5.44

SHRUBS PROVIDED = 55

PARKING LOT INTERIOR

PAVEMENT AREA = 19,614 S.F.

INTERIOR AREA REQUIRED = 19,614 x 5% (0.05) = 981 S.F.

INTERIOR AREA PROVIDED = 998 S.F. / 19,614 = 5.09%

998/300 = 3.32

TREES PROVIDED = 4

SITE INTERIOR

LOT AREA = 42,650

OPEN SPACE AREA @ 25% = 10,663 S.F.

TREES REQUIRED = 10,663 @ 1 TREE PER 1,500 S.F.

10,663/1,500 = 7.10

TREES PROVIDED = 7

STREET TREES

435 L.F. FRONTAGE 1/35 = 12.43

STREET TREES PROVIDED = 13

LANDSCAPE SPECIFICATIONS

LANDSCAPE SPECIFICATIONS: These specifications cover the furnishing of labor, plants, equipment, and materials to perform landscape operations in connection with this construction project at the locations shown on the landscape drawing.

LANDSCAPE MATERIALS:

FERTILIZER: Granular non-burning product composed of not less than 50% organic slow acting, guaranteed analysis professional fertilizer, 20% nitrogen, 10% phosphoric acid, and 5% potash by weight or similarly approved composition.

PLANTING BACKFILL SOIL: Backfill plant pits with the following topsoil mixture: 1 part topsoil, 1 part soil amendment and 1 part soil from excavation. Topsoil: ASTM D5268, PH Range of 5.5 to 7, MIN. 4 percent organic material, free of stones 1 inch and larger. Soil Amendment: Sphagnum peat moss or EPA rated class IV compost. Prepare planting backfill soil on site. Notify landscape architect one week prior to commencing planting to arrange site inspection to conform sufficient quantities of imported topsoil, compost and fertilizer are on site for planting operations.

PLANT MATERIALS: Provide trees and shrubs as indicated. Comply with sizing and grading standards of "American Standard for Nursery Stock". Provide only sound, healthy vigorous plants free from defects, disfiguring knots, sun scald injuries, frost cracks, plant diseases, insects or any other form of disease or infestation. All plants shall have fully developed form without voids or open spaces.

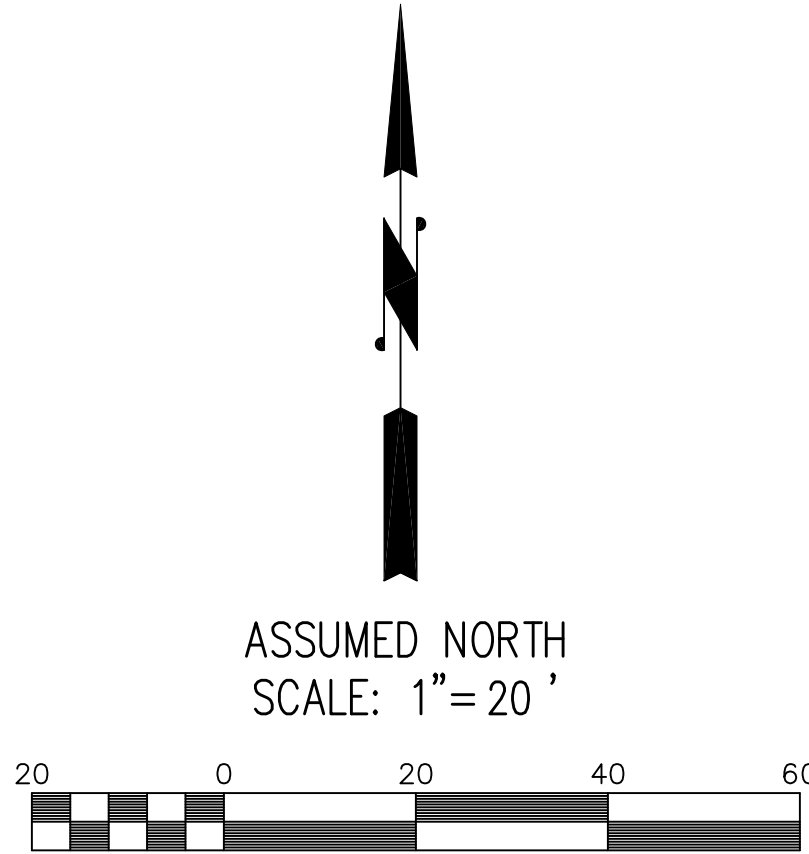
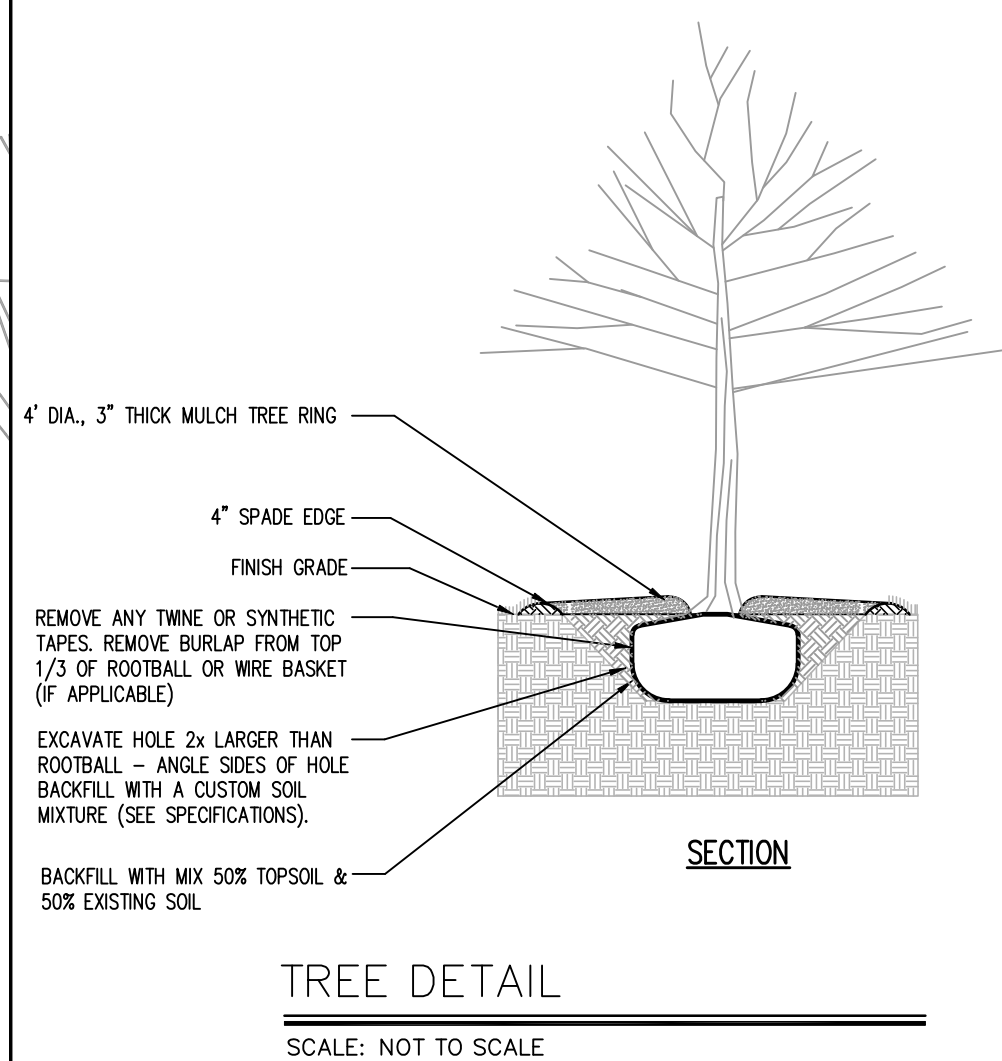
PLANTING BED MULCH: 3 inches of Premium grade shredded hardwood mulch (Dark Tan in color) over pre-emergent weed control granules.

SUBSURFACE UTILITIES: Contractor shall determine utility line locations prior to commencing work. Any conflicts between utility locations, excavation and/or landscape operations shall be brought to Owner's attention prior to commencing excavation and/or grading work. Contractor assumes responsibility for any utility damage resulting from landscape operations. CONTRACTOR SHALL NOTIFY UTILITY LOCATE SERVICE (1-800-382-5544) A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION.

PLANTING EXCAVATION: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage or obstructions, notify owner before planting. See planting details for planting, pruning and staking requirements. All plant beds including tree rings found in lawn areas shall have a 4" spade edge, NO EDGING.

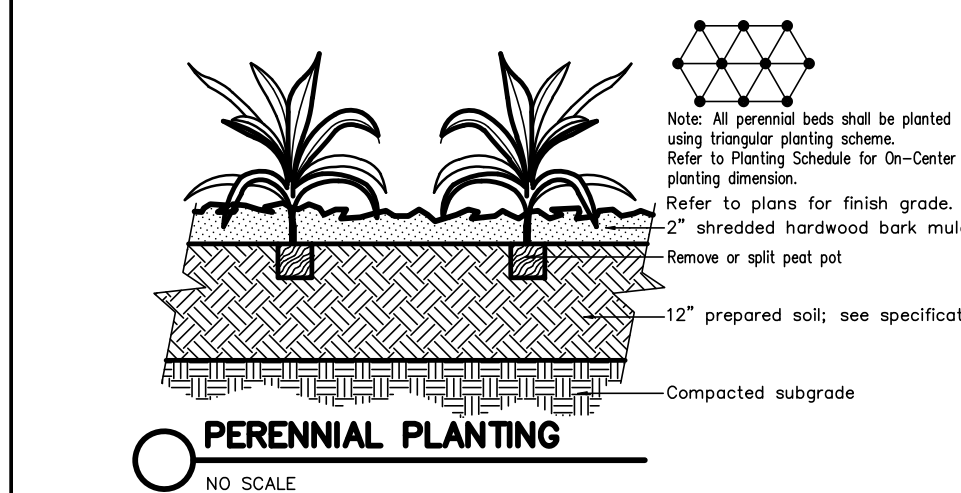
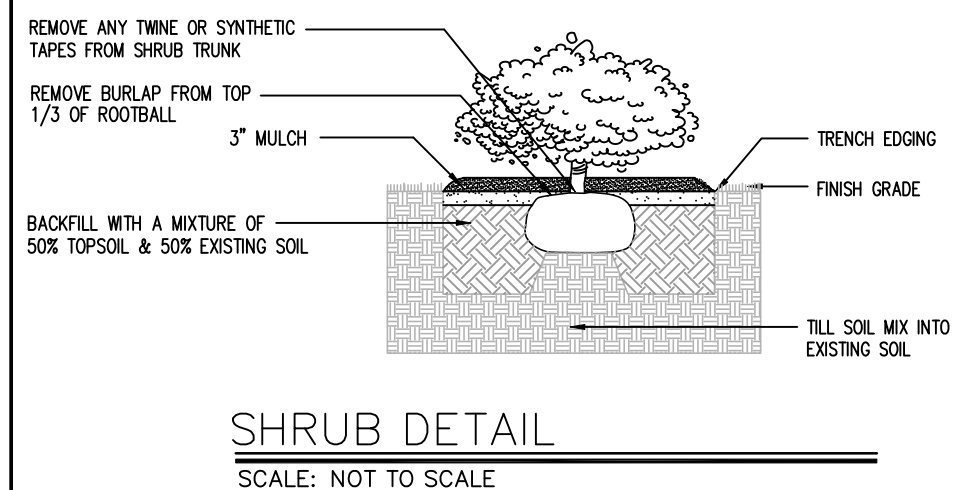
SEEDED LAWN: Complete all other landscape plantings, mulching and staking prior to seeding lawn areas. Apply fertilizer at a rate equal to 4 pounds of actual nitrogen per 1,000 square feet. Spread topsoil over lawn areas to a depth of two inches prior to seed bed preparation. Cultivate soil to a depth of three inches prior to seeding. Seed bed shall be in a firm but uncompacted condition with a relatively fine texture at time of seeding. Apply Warren's Turf Type Tall Fescue, Frontrunner, at the rate of 7 pounds per 1,000 square feet. Spread weed and seed free straw uniformly over seeded areas and secure to place with emulsified tackifier. Contractor shall maintain seeded lawn for a period of 60 days beyond final acceptance by mowing and watering as required to maintain vigorous growth during establishment period.

PROJECT WARRANTY: Contractor shall warrant trees, shrubs, and plants for a period of one year after date of substantial completion against defects including death and unsatisfactory growth, except for defects resulting from neglect by the Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond installer's control. Remove and replace trees, shrubs or other plants found to be dead or in unhealthy condition during warranty period. Replace trees and shrubs which are in doubtful condition at end of warranty period.



LEGEND

- WM EXISTING WATER METER
- EXISTING BOLLARDS
- EXISTING AREA LIGHT
- PROPOSED STORM SEWER; INLET, BEEHIVE INLET & M.H.
- PROPOSED ELECTRIC SERVICE
- PROPOSED TELEPHONE SERVICE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY LATERAL
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER; INLET & M.H.
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING ELECTRIC/TELEPHONE LINE (AERIAL)
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING FIRE HYDRANT
- EXISTING VALVE; GAS & WATER
- EXISTING ELECTRIC MANHOLE & TRANSFORMER
- EXISTING TELEPHONE MANHOLE & PEDESTAL
- MULCH BED



PLANT MATERIAL SCHEDULE

Key	Common Name	Detail	Size	Qty.	Botanical Name	Cond.
CB	EUROPEAN HORNBEEAM	+	2 1/2' cal.	2	CAPPINUS BETULUS 'FASTIGIATA'	B & B
GT	SKYLINE HONEYLOCUST	+	2 1/2' cal.	4	GLEDTISIA TRICANTHOS 'SKYLINE'	B & B
CC	EASTERN REDBUD	+	2 1/2' cal.	2	CERCIS CANADENSIS	B & B
CP	WASHINGTON HAWTHORN	+	2 1/2' cal.	11	CRATAEGUS PHAENOPYRUM	B & B
TO	MISSION ARBORVITAE	+	5-6'	12	THUJA OCCIDENTALIS 'TECHNY'	B & B

Key	Common Name	Detail	Size	Qty.	Botanical Name	Cond.
TD	'DENSIFORMS' YEW	+	24"	14	TAXUS 'DENSIFORMS'	CONT.
BK	GREEN VELVET BOXWOOD	+	24"	36	BUXUS KOREANA 'GREEN GEM'	CONT.
VP	NEWPORT VIBURNUM	+	24"	31	VIBURNUM PLICATUM TOMENTOSUM 'NEWZAM'	B & B
PA	HAMELN DWARF FOUNTAIN GRASS	+	1 GAL.	55	PENNISETUM ALOPECUROIDES 'HAMELN'	CONT.

ALL LAWN AREAS ARE TO BE SEEDED PER EROSION CONTROL SPECIFICATIONS UNLESS NOTED OTHERWISE.

LANDSCAPE PLAN

DRAWN BY: DBS
DATE: 01/17/17
TIME: 8:59/PM/1/01
REV:

REVISIONS:

TR & D, LLC
PROPOSED FREDDY'S
STEAKBURGERS
2306 N. MORTON STREET
FRANKLIN, INDIANA

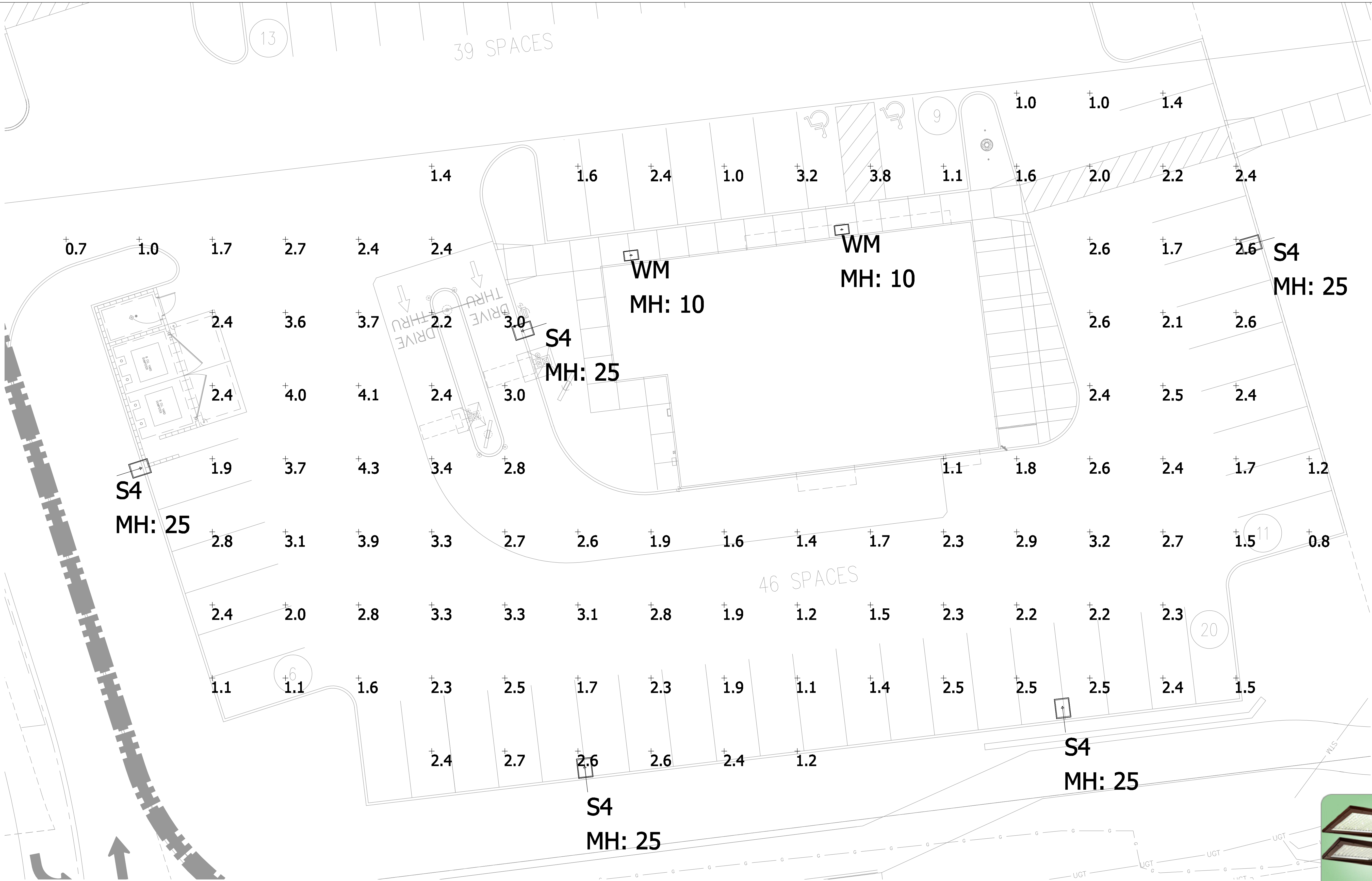
APPROVAL
PENDING
NOT FOR
CONSTRUCTION

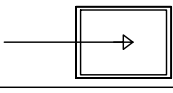
BY: *R. C. Ward*

DATE: 01-17-2017

SHEET
L101
OF
-

JOB#: TRD.001



Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Lum. Watts	Description
	5	S4	SINGLE	15790	0.900	182.5	XLCM-FTE-LED-SS-CW
	2	WM	WALL MOUNT	5113	0.900	56.1	XLCW-FT-LED-HO-CW-UE

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Freddy's Paved Areas	Illuminance	Fc	2.28	4.3	0.7	3.26	6.14



PHOTOMETRIC NOTES	
MOUNTING HEIGHT	25'
LIGHT LOSS FACTOR	0.90
REFLECTANCES	--
FOOTCANDLES CALCULATED AT	@ GRADE

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps, and other variable field conditions.

STAMP		
NO	REVISIONS DATE	BY