MRV ARCHITECTS, INC.
5105 Tollview Dr., Suite 209, Rolling Meadows, IL 60008
Ph. (224) 318-2140 – Email: mariov@mrvarch.com

June 14, 2018

City of Waukesha Plan Commission
Community Development Department
201 Delafield Street, Room 200
Waukesha, WI 53188

Written Statement

The applicant, Albor Restaurant Group, intend to build Taco Bell franchise building with an accessory drive-thru on the current property at the above noted location. The brand will exist on the site as a freestanding building. As a part of the redevelopment, we are required to request a review of the Plan Commission for this property. We believe that the development and operation of the brand will enhance current property, while providing the typical Quick Services Restaurant service in a high-quality environment this brand is known to deliver.

The franchise group own and operate many drive-thru locations throughout the United States. The Albor Restaurant Group's upper management team consists of many multi-unit managers who have well over 15 years of Quick Service Restaurant experience each.

In general, this location qualifies for a new prototypical style for Taco Bell. They will be unveiling a new prototypical design for their respective building. This location has a full menu offering, and functions as a typical free-standing building. The total gross area of the proposed building comes out as 2,112 S.F.

We understand the sensitivity to create a building with an architecturally pleasing exterior appearance; but at the same time offering a comfortable and functional experience in the interior. The introduction of more modern elements to the building exterior work in conjunction with interior elements such as soft seating produces a very wholesome, and complete experience. Furthermore, the use of quality construction materials sets these buildings apart from other brands and as well as those within the same brand.

Items such as directional signs and a menu board are also essential to a well-functioning drive-thru facility and have been integrated into the overall site design. A drive-thru would be an added convenience for customers that are not intending on dining in. Both drive-thru lanes will be separated from the bypass traffic. To help ensure public safety, warning stripes are to be painted wherever pedestrians may come into contact with drive-thru traffic. The drive-thru speaker systems typically used are adjustable to comply with any village restrictions and can be accessed by a manager at any time as needed to control the volume. They can also be set for day and night sound levels to prevent any noise from carrying to the surrounding properties at the quieter hours of the night. For those that will be dining in, there are 18 parking stalls planned.

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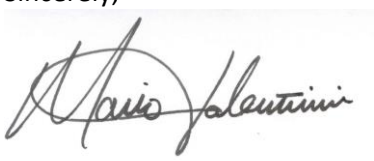
The hours of operation are intended to be for 7 days a week. The store could open as early as 7:00am and dining room would close at 11:00 pm. The drive-thru operation would be 7:00 am to 3:00 am on weekday and 4:00am on the weekends.

There will not be any alcohol served at this location.

Overall, the addition of this building and drive-thru will prove beneficial to the community by providing a valuable service. Taco Bell will be able to accommodate the customers as needed while having little disruption to the surrounding area. The exterior and interior lighting, signage, materials and proposed plan will maintain the character of the design and surrounding area while creating a more enjoyable experience. We look forward to presenting this project to you and hearing your feedback.

Please feel free to contact me with any further questions regarding the request for review.

Sincerely,



Mario Valentini
Principal,
MRV Architects, Inc.

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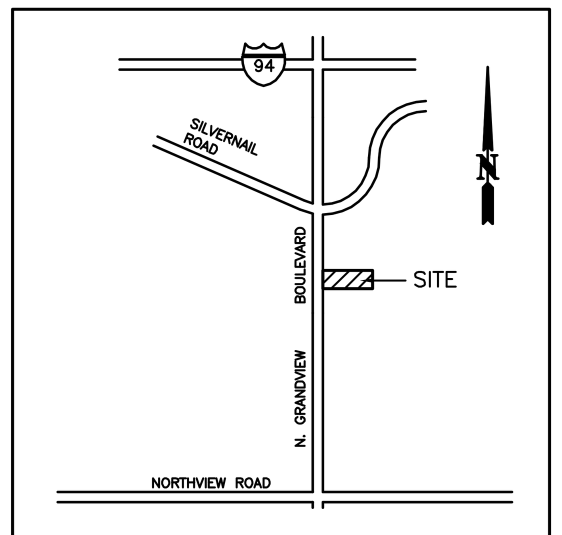
TACO BELL RESTAURANT

2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

SPECIAL NOTE:
THE CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS WORK IN A MANNER AS TO MINIMIZE HAZARDS TO VEHICULAR AND PEDESTRIAN TRAFFIC. TRAFFIC CONTROLS AND WORK SITE PROTECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTION 643 TRAFFIC CONTROL OF THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION. ALL SIGNS, BARRICADES, FLAGGERS, ETC. REQUIRED FOR TRAFFIC CONTROL SHALL BE FURNISHED BY THE CONTRACTOR. ALL WORK IN THE N. GRANDVIEW BOULEVARD RIGHT OF WAY SHALL COMPLY WITH ALL WISDOT, WAUKESHA COUNTY DPW AND CITY OF WAUKESHA STANDARDS AND REQUIREMENTS.



LOCATION MAP
N.T.S.

LEGEND

EXISTING	LEGEND	PROPOSED
W=E631.75	WALK GRADE	W=631.75
C=E630.62	CURB GRADE	C=630.62
G=E630.06	GUTTER GRADE	G=630.39
P=E630.55	PAVEMENT GRADE	P=631.25
E632.26	GRADE	632.51
639	CONTOUR	639
	CONCRETE CURB	
	CONC. CURB TO BE REMOVED	
	RETAINING WALL	
	SANITARY SEWER	
	STORM SEWER	
W 12"	WATERMAIN	W 2"
X X X X	CHAIN LINK FENCE	
	GUARD RAIL	
	DITCH FLOWLINE	
	MANHOLE	
	CATCH BASIN	
	INLET BASIN	
	DRY WELL	
	VALVE VAULT	
	VALVE BOX	
	LIGHT POLE	
	WOOD POLE	
	FIRE HYDRANT	
	DIRECTION OF DRAINAGE	
	CONCRETE WALK/PAVEMENT	
	SILT FENCE	S
3"D	DECIDUOUS TREE	
	PROPERTY LINE	
E	UNDERGROUND ELECTRIC	
G	GAS MAIN	
T	UNDERGROUND TELEPHONE	
F	UNDERGROUND FIBER OPTIC	
CTV	UNDERGROUND CABLE TV	
OH	OVERHEAD WIRES	
	OVERLAND FLOW ROUTE	
	WOOD FENCE	

GENERAL DEVELOPMENT NOTES

1. All work shall be performed in a manner so as not to unreasonably impair or interfere with the use, occupancy or enjoyment of, or with any business conducted on, any adjacent property.
2. At all times during the performance of any Work all areas other than the construction site proper and the staging area shall be kept free from any loose dirt, debris, equipment or construction materials relating to the work.
3. Upon completion of the Work, Constructing Party shall promptly restore the area to as good or better condition than existed before the use of the area commenced. Restoration shall include, without limitation, clearing the areas of all loose dirt, debris, equipment and construction materials, the repair or replacement of paving, striping and landscaping, and the repair or replacement of any and all damaged areas or improvements.

GENERAL NOTES AND SPECIFICATIONS

1. All material and construction shall comply with the requirements of the State of Wisconsin Department of Transportation "Standard Specifications for Highway and Structure Construction" latest edition, except as may be modified by the project plans and specifications.
2. All underground construction shall comply with the requirements of the "Standard Specifications for Sewer and Water Construction in Wisconsin", latest edition, except as may be modified by the project plans and specifications.
3. Water mains shall be protected in accordance with the requirements of the Wisconsin Administrative Code and the City of Waukesha. Where a sewer crosses a water main, a minimum vertical separation of 18" shall be provided between the top of the lower pipe and the bottom of the upper pipe. At crossings one full length of water pipe shall be centered on the sewer so that both joints will be as far away from the sewer as possible. Where this 18" vertical separation is not provided, the sewer shall be constructed to water main standards for a minimum of 10 feet on each side of the water main unless otherwise noted on the drawings. Minimum water main cover is 6.0 feet.
4. All sewer and water main trenches under or within five feet of existing or proposed curbs, sidewalk, or pavement shall be backfilled with compacted porous granular backfill complying with WISDOT and City of Waukesha requirements.
5. AT&T Wisconsin Telephone, WE Energies, Spectrum Business, and other utility company conduits are not necessarly shown on the drawings and must be located in the field prior to construction. Call Diggers Hotline (1-800-242-8511) at least 72 hours prior to the start of construction.
6. Any pavement, walks, landscaping, or other improvements on adjoining properties disturbed by contractor's operations shall be replaced in kind at no additional cost.
7. Valve vault, inlet basin and manhole covers and rings shall be set in workmanlike manner in mastic bed.
8. All elevations shown are based on City of Waukesha datum.
9. The City of Waukesha Engineering, Building, and Public Works Departments and Waukesha Water Utility shall be notified at least five working days prior to start of construction.
10. All structures shall be clean at time of final acceptance at no additional charge.
11. All work to meet all state and local codes and requirements.
12. Water and sewer locations are shown on the drawing from the best available information and must be located in the field by the contractor prior to construction. Any discrepancy that the contractor may find with the plan shall be immediately reported to the Engineer for resolution prior to proceeding with construction.
13. Valve vault lids shall be stamped "Water", storm manhole covers shall be stamped "Storm", and sanitary manhole covers shall be stamped "Sanitary". All lids shall also be stamped "Waukesha".
14. Water service lines (3" and larger) to be cement-lined ductile iron, Class 52, conforming to ANSI specification A21.51 with push-on rubber gasket joints. All fittings to be cement-lined. Sterilization and pressure testing is included. All water service construction shall comply with the Wisconsin Administrative Code and the Waukesha Water Utility requirements.
15. Water service lines (2" and smaller) shall be copper water tube, type K, soft temper for underground service conforming to ASTM B-88 and B251 and also conforming to all Waukesha Water Utility requirements.
16. PVC sewer pipe shall be PVC SDR 26 pipe meeting the requirements of ASTM D3034 with flexible elastomeric joints per ASTM D3212, unless otherwise noted on the drawings.
17. Class I embedment, with a minimum depth of 6" below the pipe and 12" above the pipe complying with City of Waukesha requirements shall be provided for all sewer construction.
18. All floor drains shall be connected to the sanitary sewer system. All downspouts and footing drains shall discharge into the storm sewer system.
19. "Band Seal" or similar flexible type couplings shall be used in the connection of sewer pipe of dissimilar materials.
20. Concrete thrust blocks to prevent movement of water main under pressure shall be placed at all tees, valves, and bends of 11 1/4 degrees and greater.
21. Reinforced concrete storm sewer pipe shall be ASTM C-76 with rubber gasket joints (ASTM C443), except as noted.
22. When connecting to an existing sewer main by means other than an existing wye, tee, or an existing manhole, one of the following methods shall be used: A. Circular saw-cut of sewer main by proper tools ("Sewer-Tap" machine or similar) and proper installation of hub-wye saddle or hub-tee saddle. B. Remove an entire section of pipe (breaking only the top of one bell) and replace with a wye or tee branch section. C. With pipe cutter, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using "Band-Seal" or similar couplings to hold it firmly in place.
23. The contractor(s) shall indemnify the owner, Northwestern Engineering Consultants, P. C. and the municipality, their agents, etc. from all liability involved with the construction, installation and testing of the work on this project.
24. Existing grades and improvements are shown from the best information available and must be verified in the field by the contractor prior to the start of construction. Any discrepancy with the plan shall be reported to the engineer.
25. All existing buildings, foundations, utilities, landscaping and other improvements on adjacent properties shall be protected at all times during construction. The contractor is responsible to provide and install any materials, equipment, and/or manpower necessary to accomplish this.
26. All construction and traffic control within the street rights-of-way shall comply with all Wisconsin Department of Transportation, Waukesha County DPW and City of Waukesha requirements. The contractor is accountable for the safety of the motoring public and shall adhere to WISDOT standards for maintenance of traffic.
27. The contractor is responsible for maintaining a clean construction area and shall remove debris resulting from his operations. Open trenches or other construction hazards shall be protected with barricades at the end of each day's operations.
28. The contractor shall be responsible for compliance with all of the requirements of the Occupational Safety and Health Act including those requirements for open cut trenches and sheeting and bracing as required. At no time will the engineer or any of his employees be held liable, either directly or as third party participants to any litigation concerned with the construction project.
29. Subgrade preparation for all pavements and other improvements shown on the drawings shall include topsoil stripping and removal of any underlying unstable/deleterious material. Fill placement under all paved areas shall be compacted to 95% Modified Proctor density and shall comply with all the recommendations of the soils engineer.
30. All existing field drainage tile encountered or damaged during construction are to be restored to their original condition, properly rerouted, and/or connected to the storm sewer system. The contractor shall keep a record of all locations of field drainage tile encountered.
31. D.I. sewer pipe shall be ductile iron pipe, Class 52 conforming to ANSI specification A21.51 with push-on rubber gasket joints.
32. Drainage from upstream properties shall not be blocked at any time in any manner by any of the proposed construction work shown on these drawings.
33. All excess excavated material shall become the property of the contractor and shall be removed from the site and legally disposed of by him.
34. All work shall comply with the Wisconsin Department of Natural Resources Wisconsin Construction Site Best Management Practices Handbook. The contractor shall take whatever steps are necessary to control erosion on the site. Erosion control features shall be constructed concurrently with other work on the site. The contractor shall take sufficient precaution to prevent pollution of streams, lakes and reservoirs with fuels, oils, bitumens, calcium chloride or other harmful materials. He shall conduct and schedule his operations so as to avoid or minimize siltation of streams, lakes and reservoirs. Hauling will not be allowed when the work site is too wet to maintain acceptable conditions on adjacent streets. Adjacent streets and driveways shall be manually or mechanically swept periodically as may be required to maintain clean conditions. Downstream inlet basins shall be protected with temporary inlet protection devices under the rims to prevent sediment from entering the storm sewer system- see detail, sheet C-8.
35. The design engineer shall not be responsible for the means, methods, procedures, techniques, or sequences of construction not specified herein, nor for the safety on the job site, nor shall the design engineer be responsible for the contractor's failure to carry out the work in accordance with the contract documents.
36. The contractor is advised that the site contains areas of trees and brush. He shall make his own investigation and shall include the cost of tree and brush removal in his total price bid. Any trees whose trunk is located on both sides of any Taco Bell property line shall remain and be protected, unless written permission is obtained from the adjoining property owner to remove said trees. Verify the exact scope of the landscape material removal/preservation with the landscape drawings.
37. Any damage of perimeter street curbs and/or pavement caused by the contractor's activity shall be repaired by the contractor.
38. Tracer wire for utilities to be #10 AWG copper. Color shall be blue for water, green for sanitary, brown for storm, and purple for non-potable water.

ALL MATERIAL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WAUKESHA STANDARD CONSTRUCTION SPECIFICATIONS, 2018 EDITION.

OPERATES 24 HOURS 365 DAYS
CALL DIGGERS HOTLINE
1-800-242-8511
WITH THE FOLLOWING:
COUNTY WAUKESHA COUNTY
CITY-TOWNSHIP WAUKESHA
SEC. & 1/4 SEC. NO.# NE¼ 28-7-19
48 HOURS BEFORE YOU DIG
EXCLUDING SAT., SUN. & HOLIDAYS

INDEX OF DRAWINGS

C-1 TITLE SHEET
C-2 SITE PLAN
C-3 GRADING AND DRAINAGE PLAN
C-4 UTILITY PLAN
C-5 STORM WATER POLLUTION PREVENTION PLAN
C-6 DETAILS
C-7 DEMOLITION PLAN
C-8 WISDOT & WISDNR DETAILS
C-9 WISDOT & WISDNR DETAILS

BENCHMARK

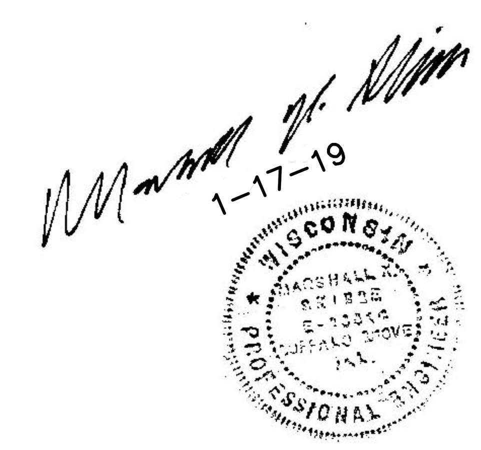
BM NO.1=131.37=ELEVATION OF EAST UPPER FLANGE BOLT ON NORTH SIDE OF FIRE HYDRANT LOCATED 2 FEET EAST AND 1 FOOT NORTH OF THE SOUTHWEST TACO BELL PROPERTY CORNER. (CITY OF WAUKESHA DATUM).

DEVELOPER
MR. NEIL BORKAN
NJB OPERATIONS, INC.
302 SAUNDERS ROAD, SUITE 100
RIVERWOODS, IL 60015
847-955-1000

ARCHITECT
MR. MARIO VALENTINI
MRV ARCHITECTS, INC.
5105 TOLLVIEW DRIVE, SUITE 197
ROLLING MEADOWS, IL 60008
224-318-2140

REVISIONS

NO.	DATE	DESCRIPTION



PREPARED BY
NORTHWESTERN ENGINEERING CONSULTANTS, P.C.
WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20
675 N. NORTH COURT
PALATINE, ILLINOIS 60067
(847) 520-8410
JANUARY 17, 2019

SPECIAL NOTE:
Existing grades and improvements are shown from the best information available and must be verified in the field by the contractor prior to the start of construction. Any discrepancy with the plan shall be immediately reported to the engineer.

OPERATES 24 HOURS 365 DAYS
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1-800-242-8511
WITH THE FOLLOWING:
COUNTY WAUKESHA COUNTY
CITY-TOWNSHIP WAUKESHA
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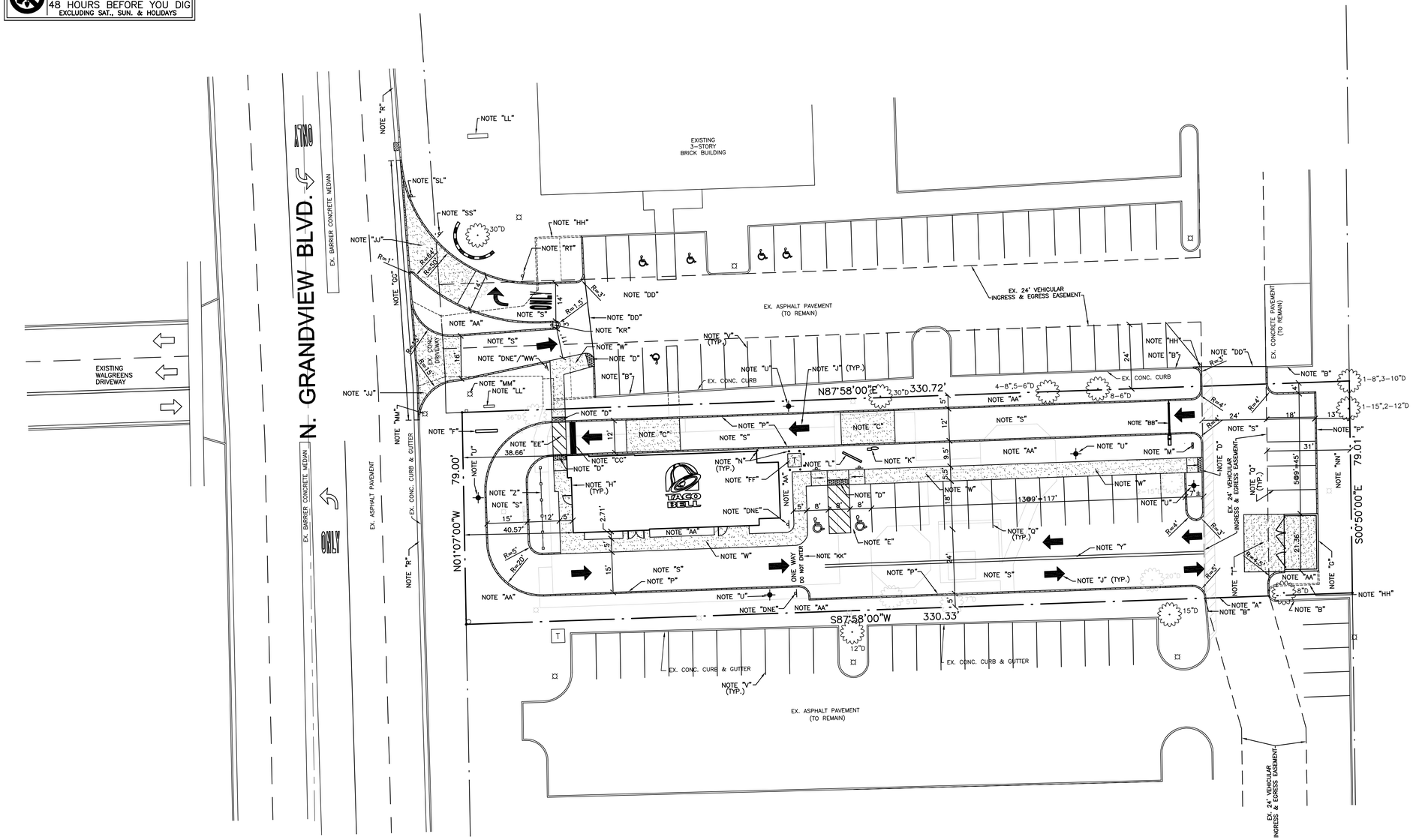
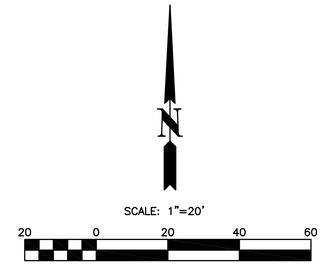




NOTE "A":
SAW CUT ALONG PROPERTY LINE TO PROVIDE CLEAN JOINT BETWEEN EXISTING AND NEW PAVEMENT.

NOTE "B":
EXISTING BARRIER CONCRETE CURB TO REMAIN.

NOTE "C":
CONCRETE PAVEMENT FOR 12' BY 20' DRIVE-THRU PAD SHALL BE MINIMUM OF 3,500 P.S.I. AIR ENTRAINED CONCRETE, 8" THICK, 6 BAG MIX WITH 6"x6"-W4xW4 W.W.F. ON 6" COMPACTED SELECT CRUSHED ROCK MATERIAL ON COMPACTED SUBGRADE (TYP.). SURFACE TO RECEIVE BROOM FINISH AND ONE SEAL COAT.

NOTE "D":
CONSTRUCT NEW HANDICAP RAMP IN ACCORDANCE WITH ALL CITY, STATE AND ADA REQUIREMENTS (TYPICAL). RAMP SHALL HAVE TRUNCATED DOME DETECTABLE WARNING SURFACE IN YELLOW COLOR. (SEE DETAIL).

NOTE "E":
PROPOSED HANDICAPPED PARKING STALL WITH PAINTED SYMBOL AND POLE SIGN MEETING ALL STATE OF WISCONSIN AND ADA REQUIREMENTS.

NOTE "F":
PROPOSED MONUMENT SIGN. SEE ARCHITECTURAL DRAWINGS.

NOTE "G":
PROPOSED TRASH ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS AND DIMENSIONS.

NOTE "H":
WHERE CONCRETE WALK OR PAVEMENT IS ADJACENT TO FOUNDATION WALL, INSTALL COMPRESSIBLE FILLER (3/4" MAXIMUM) BETWEEN PAVEMENT AND FOUNDATION WALL. CUT BACK AND PROVIDE SEALANT AT BUILDING WALL.

NOTE "J":
PROPOSED PAINTED TRAFFIC ARROW (TYP.).

NOTE "K":
PROPOSED SPEAKER POST AND CANOPY. SEE ARCHITECTURAL DRAWINGS.

NOTE "L":
PROPOSED MENU BOARD. SEE ARCHITECTURAL DRAWINGS.

NOTE "M":
PROPOSED DIRECTIONAL SIGN. SEE ARCHITECTURAL DRAWINGS.

NOTE "N":
PROPOSED PIPE BOLLARD.

NOTE "P":
PROPOSED CONCRETE PARKING LOT CURB. SEE DETAIL ON SHEET C-6.

NOTE "Q":
PROPOSED PAVEMENT STRIPING.

NOTE "R":
EXISTING BARRIER CONCRETE CURB AND GUTTER TO REMAIN.

NOTE "S":
PROPOSED ASPHALT PAVEMENT. SEE DETAIL, SHEET C-6.

NOTE "T":
CONCRETE PAVEMENT FOR TRASH ENCLOSURE AND APRON SHALL BE MINIMUM OF 3,500 P.S.I. AIR ENTRAINED CONCRETE, 8" THICK, 6 BAG MIX WITH 6"x6"-W4xW4 W.W.F. ON 6" COMPACTED SELECT CRUSHED ROCK MATERIAL ON COMPACTED SUBGRADE (TYP.). SURFACE TO RECEIVE BROOM FINISH AND ONE SEAL COAT.

NOTE "U":
PROPOSED LIGHT POLE (TYP.). SEE ARCHITECTURAL DRAWINGS.

NOTE "V":
EXISTING PAVEMENT STRIPING TO REMAIN.

NOTE "W":
PROPOSED PERIMETER TYPE CONCRETE SIDEWALK. SEE DETAIL, SHEET C-6.

NOTE "Y":
PROPOSED 2-4" YELLOW PAINTED LINES @11" C-C.

NOTE "Z":
PROPOSED DECORATIVE FENCE. SEE ARCHITECTURAL DRAWINGS.

NOTE "AA":
PROPOSED LANDSCAPED AREA. SEE LANDSCAPING DRAWINGS.

NOTE "BB":
PROPOSED CLEARANCE BAR. SEE ARCHITECTURAL DRAWINGS.

NOTE "CC":
PROPOSED 24" WIDE WHITE PAINTED STOP BAR.

NOTE "DD":
SAW CUT EXISTING ASPHALT PAVEMENT AS REQUIRED TO PROVIDE CLEAN JOINT BETWEEN EXISTING AND NEW PAVEMENT.

NOTE "EE":
PROPOSED PAVEMENT STRIPING, 4" WIDE LINES AT 45°, 3' O.C.

NOTE "FF":
PROPOSED CONCRETE PAD FOR ELECTRICAL TRANSFORMER. SEE ELECTRICAL DRAWINGS.

NOTE "GG":
SAW CUT AND REMOVE EXISTING CONCRETE CURB AND GUTTER ACROSS EXISTING AND NEW DRIVEWAYS AS INDICATED. REPLACE WITH NEW DEPRESSED CONCRETE CURB AND GUTTER ACROSS THE PROPOSED DRIVEWAY, AND NEW BARRIER CONCRETE CURB AND GUTTER ADJACENT TO THE PARKWAY, MATCHING EXISTING CURB AND GUTTER. NEW FLOW LINE SHALL MATCH EXISTING FLOW LINE.

NOTE "HH":
EXISTING CONCRETE CURB TO BE SAW CUT AND REMOVED.

NOTE "JJ":
THE PORTION OF THE NEW DRIVEWAY IN AND NEAR THE N. GRANDVIEW BOULEVARD RIGHT OF WAY SHALL CONSIST OF A MINIMUM OF 3,500 P.S.I. AIR ENTRAINED CONCRETE, 8" THICK, 6 BAG MIX WITH 6"x6"-W4xW4 W.W.F. ON 12" COMPACTED SELECT CRUSHED ROCK MATERIAL ON COMPACTED SUBGRADE (TYP.). SURFACE TO RECEIVE BROOM FINISH AND ONE SEAL COAT.

NOTE "KK":
PROPOSED 2' TALL PAINTED LETTERS READING "ONE WAY DO NOT ENTER".

NOTE "LL":
EXISTING SILVERNAIL WOODS OFFICE PARK SIGN TO REMAIN.

NOTE "MM":
EXISTING LIGHT POLE TO REMAIN.

NOTE "NN":
EXISTING WOODED AREA TO REMAIN.

PROPOSED TRAFFIC SIGN SCHEDULE

NOTE "SS" – PROPOSED 24"x24" R1-1 STOP SIGN MOUNTED ON METAL POST.

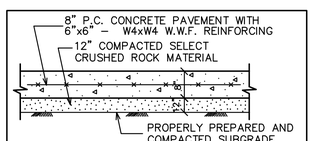
NOTE "DNE"/"WW" – PROPOSED 24"x24" R5-1 DO NOT ENTER SIGN MOUNTED ON TOP OF A R5-1a 30" X 18" WRONG WAY SIGN MOUNTED ON METAL POST.

NOTE "DNE" – PROPOSED 24"x24" R5-1 DO NOT ENTER SIGN MOUNTED ON METAL POST.

NOTE "RT" – PROPOSED 18"x24" R3-5 RIGHT TURN ONLY SIGN MOUNTED ON METAL POST.

NOTE "KR" – PROPOSED 18"X24" R4-7 KEEP RIGHT SIGN MOUNTED ON METAL POST.

NOTE "SL" – EXISTING "SIGNAL AHEAD" SIGN TO BE RELOCATED BY THE TACO BELL CONTRACTOR TO A LOCATION DETERMINED IN THE FIELD BY THE WAUKESHA COUNTY HIGHWAY DEPARTMENT.



CROSS-SECTION OF PROPOSED CONCRETE DRIVEWAY PAVEMENT IN AND NEAR N. GRANDVIEW BOULEVARD

N.T.S.

PARKING PROVIDED ON PARCEL

18	STANDARD STALLS (9')
2	HANDICAP STALLS (16')
20	STALLS PROVIDED

NOTE:
ALL TRAFFIC SIGNS ARE TO BE INSTALLED AT 7' MEASURED FROM THE GROUND ELEVATION TO THE BOTTOM OF THE SIGN.

NOTE:
SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS, PARKING LOT LIGHTING, SIGNAGE, DRIVE-THRU FACILITY DETAILS AND LANDSCAPING.

NOTE:
ALL DIMENSIONS ARE TO THE FACE OF SIDEWALK OR FACE OF CURB UNLESS OTHERWISE NOTED.

PAVEMENT MARKING (STRIPING) FOR PARKING LOTS

A. After paving operations are completed, or when directed by the General Contractor, marking as designated on the drawings may proceed. Marking shall consist of 4" wide lines configured as indicated on drawings, in "Traffic Yellow" color. Traffic paint shall be manufactured by Sherwin Williams, or approved equal. Apply in strict conformance with manufacturer's instructions.

B. Paint striping work shall include painting of international handicap symbol at designated parking for handicapped, as indicated on drawings.

C. Protect area against traffic for at least 48 hours after application of striping.

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WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

SITE PLAN
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS			
NO.	DATE	DESCRIPTION	

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: 1"=20'

DRAWING NO.
C-2

JOB NO.
18-16

THE RECEIVER OF ELECTRONIC DATA TRANSMISSION IS THE PURPOSE UNDERSTANDS AND AGREES AS FOLLOWS:
PORTIONS OF ALL OF THE CIVIL ENGINEERING DRAWINGS FOR THIS PROJECT MAY BE TRANSMITTED TO THE CLIENT AS ELECTRONIC CADD FILES. THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE CADD FILES. THE CADD FILES MAY NOT BE ACCURATE AFTER THE ORIGINAL DATE OF THE DRAWINGS. THE CADD FILES MAY NOT SHOW ALL OF THE INFORMATION ON THE DRAWINGS OR THE IMPROVEMENTS AS LOCATED IN THE FIELD. THE CADD FILES HAVE BEEN PREPARED FOR THE SOLE PURPOSE OF PREPARING A SET OF WHICH EQUALS 24"x36" PAPER DRAWINGS. DIFFERENCES MAY EXIST BETWEEN THE DOCUMENTS AND ELECTRONIC FILES. THE SIGNED OR SEALED HARD-COPY CONSTRUCTION DOCUMENTS SHALL GOVERN. THE ENGINEER DOES NOT WARRANT THE ACCURACY OR LONG TERM STABILITY OF THE CADD FILES DUE TO DATA CONVERSION, HARDWARE, SOFTWARE OR FORMATTING CHANGES OCCURRING AFTER THE DATE OF THE DRAWINGS. THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, THAT THE CADD FILES ARE FREE FROM ERRORS AND OMISSIONS. THE RECEIVER SHALL NOT GUARANTEE THE ACCURACY OF THE CADD FILES AND SHALL NOT BE MODIFIED OR TRANSFERRED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION OF NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RECEIVER BY ACCEPTANCE OF THIS CADD FILE AGREES TO INDEMNIFY AND HOLD HARMLESS NORTHWESTERN ENGINEERING CONSULTANTS, P.C. FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR ANY USE OF THESE MATERIALS. THE RECEIVER SHALL MAKE NO CLAIM NOR INITIATE ANY ACTION IN LAW OR EQUITY AGAINST NORTHWESTERN ENGINEERING CONSULTANTS, P.C. FOR ANY ALLEGED DEFECTS IN THE CADD FILE THAT MAY BE DISCOVERED AFTER THE ACCEPTANCE OF THE CADD FILE. THE RECEIVER SHALL INDEMNIFY NORTHWESTERN ENGINEERING CONSULTANTS, P.C. FOR ANY ERRORS OR OMISSIONS IN THE DATA TRANSMISSION PROVIDED, CONSIDERING THE ENGINEER'S COPYRIGHT AND OTHER INTELLECTUAL PROPERTY INTERESTS IN THIS DATA.

SPECIAL NOTE:

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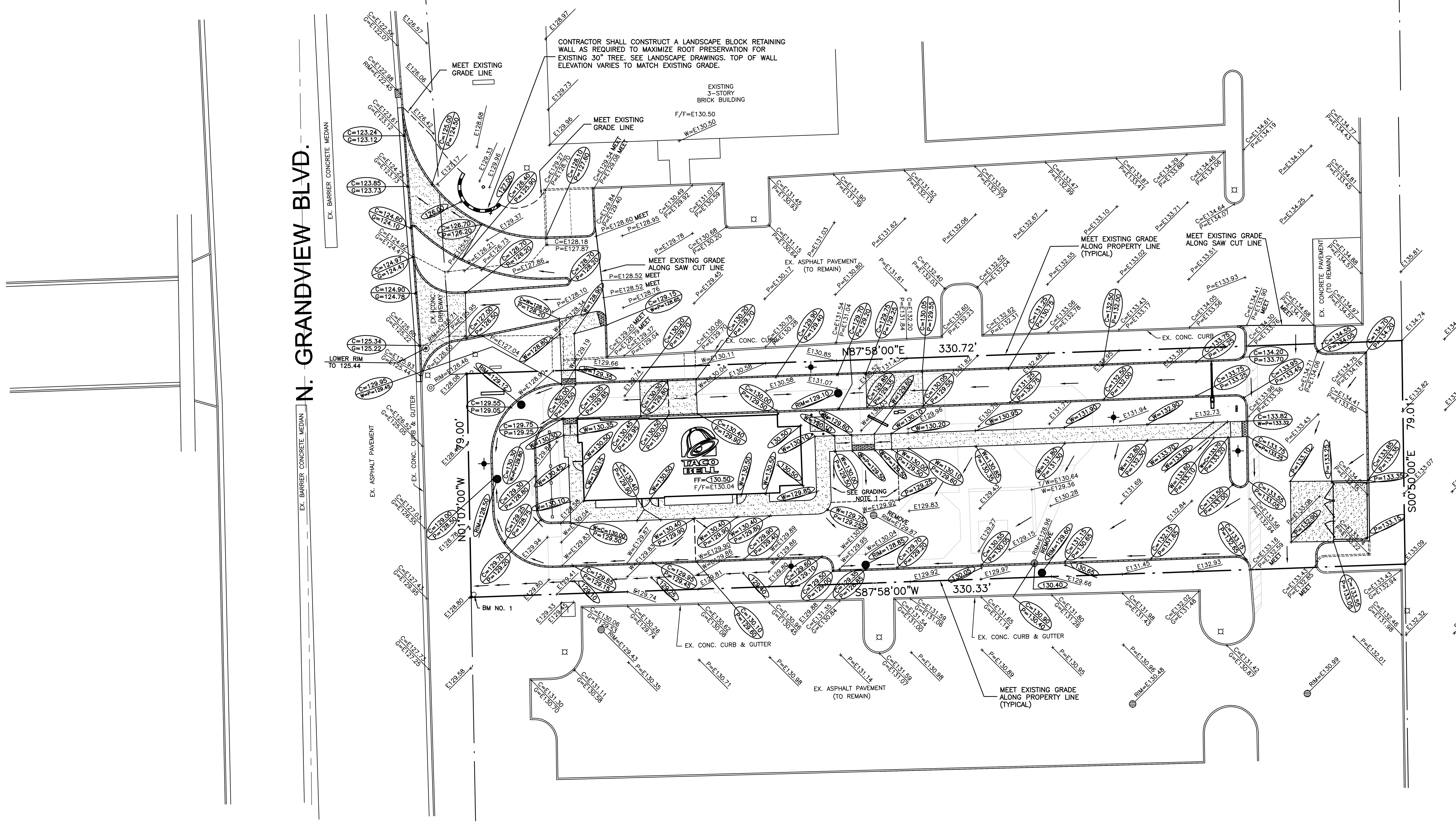
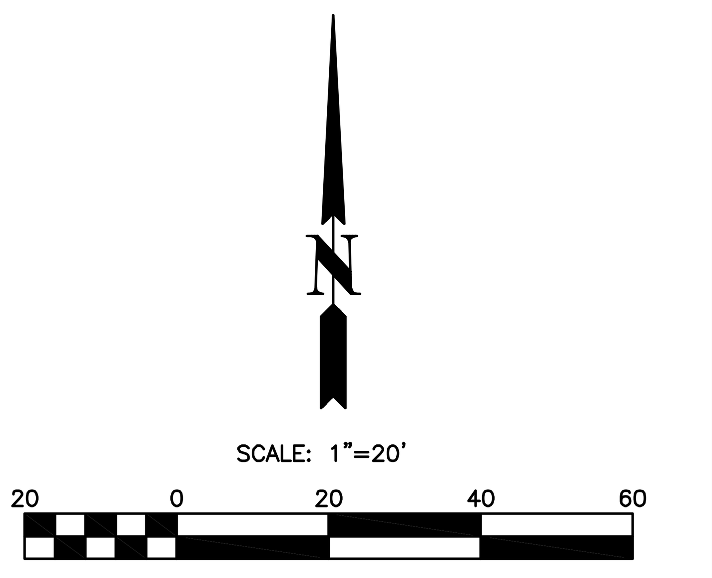
BENCHMARK

BM NO.1=131.37=ELEVATION OF EAST UPPER FLANGE BOLT ON NORTH SIDE OF FIRE HYDRANT LOCATED 2 FEET EAST AND 1 FOOT NORTH OF THE SOUTHWEST TACO BELL PROPERTY CORNER. (CITY OF WAUKESHA DATUM).

OPERATES 24 HOURS 365 DAYS	CALL DIGGERS HOTLINE 1-800-242-8511
	WITH THE FOLLOWING:
	COUNTY: WAUKESHA COUNTY
	CITY-TOWNSHIP: WAUKESHA
	SEC. & 1/4 SEC. NO.#: NE¼ 28-7-19
	48 HOURS BEFORE YOU DIG
	EXCLUDING SAT., SUN. & HOLIDAYS





GRADING NOTES

1. ACCESSIBLE PARKING SPACES AND THEIR ADJOINING ACCESS AISLES SHALL NOT EXCEED 2.0% SLOPE IN ANY DIRECTION.
2. ACCESSIBLE PEDESTRIAN ROUTES SHALL NOT EXCEED 2.0% CROSS SLOPE OR 5.0% RUNNING SLOPE, EXCEPT FOR CURB RAMPS WHICH SHALL NOT HAVE A RUNNING SLOPE GREATER THAN 8.33%.
3. ALL GRASS/LANDSCAPED AREAS SHALL BE UNIFORMLY GRADED TO DRAIN WITH POSITIVE DRAINAGE.

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WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

GRADING AND DRAINAGE PLAN

TACO BELL RESTAURANT

2707 N. GRANDVIEW BOULEVARD WAUKESHA, WISCONSIN

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: 1"=20'

DRAWING NO. C-3

JOB NO. 18-16

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SPECIAL NOTE:
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BENCHMARK
BM NO.1=131.37=ELEVATION OF EAST UPPER FLANGE BOLT ON NORTH SIDE OF FIRE HYDRANT LOCATED 2 FEET EAST AND 1 FOOT NORTH OF THE SOUTHWEST TACO BELL PROPERTY CORNER. (CITY OF WAUKESHA DATUM).

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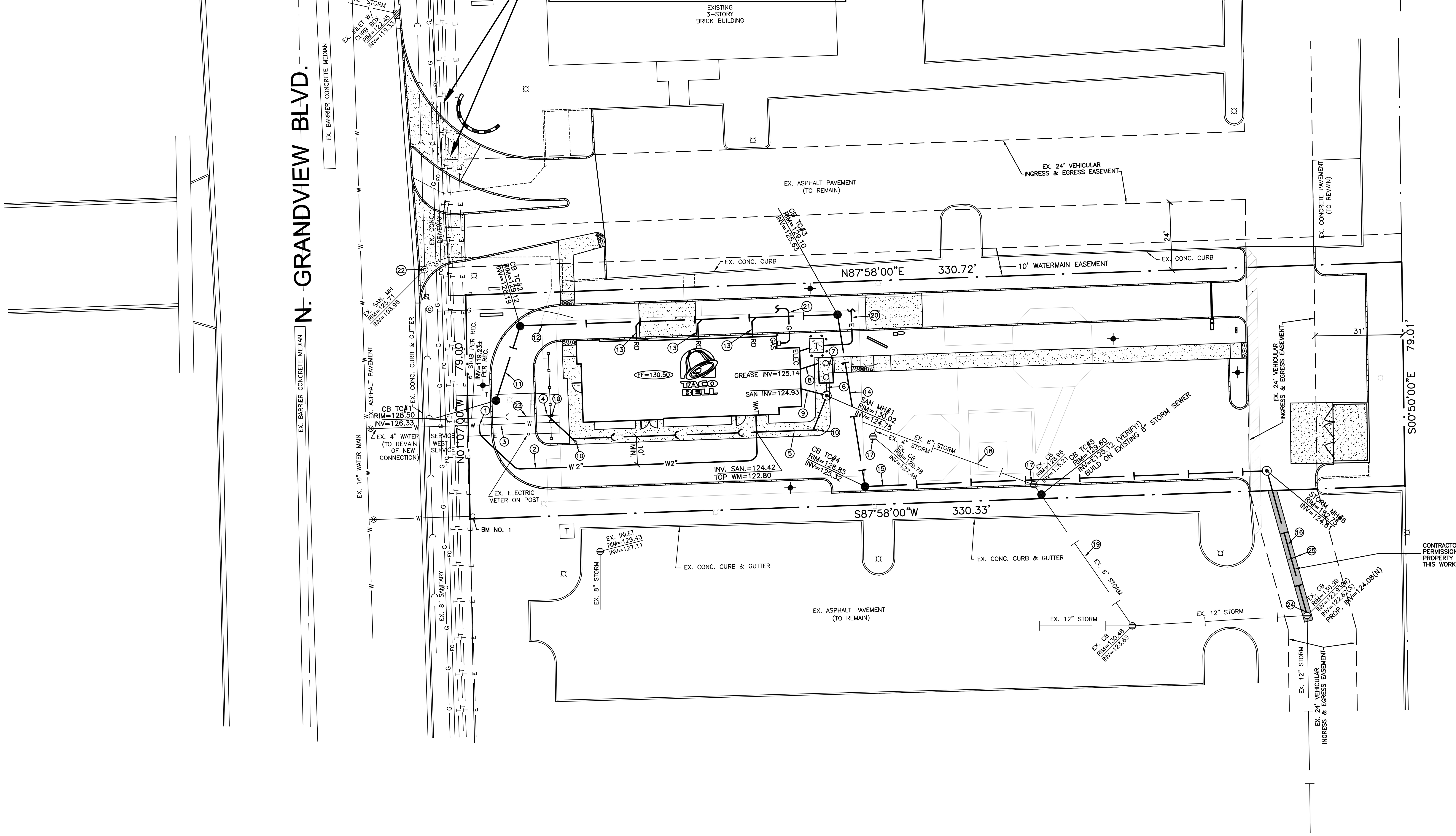
48 HOURS BEFORE YOU DIG
EXCLUDING SAT., SUN. & HOLIDAYS

SPECIAL NOTE
The locations of existing underground utilities, such as water mains, sewers, gas lines, electric lines, telephone lines, etc., as shown on the plans have been determined from the best available information and is given for the convenience of the contractor. However, the engineer and owner do not assume responsibility for the accuracy of the locations shown. It shall be the contractor's responsibility to contact all utility companies and their facilities shall be located prior to any work.

NOTE:
Prior to the start of construction, the contractor shall expose any utilities or other obstructions to be crossed by the proposed sewer, and shall notify the engineer immediately if there are any conflicts with the proposed sewer grade.

GENERAL NOTES
1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EACH BUILDING UTILITY SERVICE LINE FROM THE PLUMBING AND/OR MECHANICAL DRAWINGS AND SHALL COORDINATE UTILITY SERVICE LINE LOCATION WITH SAME.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY COMPANIES (SEWER, WATER, ELECTRIC, GAS, TELEPHONE, ETC.)
3. ANY EXISTING SEWER, WATER OR OTHER UTILITY LINES OR STRUCTURES (MANHOLES, ETC.) UNDER OR WITHIN 10' OF THE PROPOSED BUILDING OR TRASH ENCLOSURE SHALL BE REMOVED. PLUG ENDS OF REMAINING UTILITY LINES. BACKFILL TRENCHES WITH SELECTED GRANULAR BACKFILL COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY IN 8" LIFTS.

NOTE: PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE EXISTING UNDERGROUND UTILITIES IN AND NORTH OF THE AREA OF THE NEW DRIVEWAY MARKED. THE CONTRACTOR SHALL THEN PERFORM EXPLORATORY EXCAVATIONS TO DETERMINE THE DEPTHS OF THE EXISTING UTILITY LINES INCLUDING BUT NOT LIMITED TO GAS MAIN, FIBER OPTIC LINE(S) TELEPHONE LINES, COMMUNICATION LINE(S) AND ELECTRIC LINES IN AND NORTH OF THE AREA OF THE NEW DRIVEWAY. THE CONTRACTOR SHALL INCLUDE IN HIS BID A SEPARATE COST ITEM TO LOWER THE EXISTING GAS MAIN, FIBER OPTIC LINE(S), TELEPHONE, COMMUNICATION AND ELECTRIC LINES IN AND NORTH OF THE AREA OF THE NEW DRIVEWAY IF REQUIRED TO PROVIDE SUFFICIENT DEPTH OF COVER UNDER THE RECONFIGURED DRIVEWAY AS REQUIRED BY THE VARIOUS UTILITY COMPANIES.



CONTRACTOR SHALL VERIFY THAT TACO BELL HAS PERMISSION TO DO THIS WORK ON THE ADJOINING PROPERTY TO THE SOUTH PRIOR TO COMMENCING THIS WORK.

SCALE: 1"=20'

UTILITY NOTES
1. MAKE 2" WATER SERVICE CONNECTION TO EXISTING 4" DUCTILE IRON WATER SERVICE LINE IN ACCORDANCE WITH ALL CITY OF WAUKESHA WATER UTILITY REQUIREMENTS. PROVIDE CONNNECTION HARDWARE AS APPROPRIATE. PRIOR TO START OF CONSTRUCTION CONTRACTOR SHALL EXPOSE THE WATER SERVICE LINE TO CONFIRM THE LOCATION, SIZE AND MATERIAL OF THE EXISTING WATER SERVICE LINE.
2. 124 LF 2" TYPE "K" COPPER WATER SERVICE.
3. EXISTING WATER SERVICE LINE TO BE ABANDONED EAST OF NEW SERVICE CONNECTION. PROVIDE WATERTIGHT D.I. PLUG AND CONCRETE THRUST BLOCK AT END OF 4" PIPE.
4. CONTRACTOR TO DETERMINE EXISTING INVERT ELEVATION AT THIS LOCATION PRIOR TO THE START OF CONSTRUCTION. FOR THE PURPOSES OF THIS PLAN, THE INVERT ELEVATION HAS BEEN ASSUMED TO BE 123.65. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCY. MAKE WATERTIGHT CONNECTION TO EXISTING 6" SANITARY SEWER SERVICE LINE IN ACCORDANCE WITH ALL CITY OF WAUKESHA REQUIREMENTS. INSTALL NEW CLEAN OUT. EXISTING SANITARY SERVICE LINE TO BE PLUGGED, BLOCKED AND ABANDONED EAST OF NEW CLEAN OUT.
5. 110 LF 6" PVC SAN. SEWER SDR 26 S=1.00%
6. 5 LF 6" PVC SAN. SEWER SDR 26 S=5.00%
7. PROPOSED 1000 GALLON GREASE TRAP. SEE DETAIL, SHEET C-6. RIM(S)=130.02; RIM(N)=130.07; INV=125.00
8. 7 LF 6" PVC SAN. SEWER SDR 26 S=2.00%
9. 9 LF 6" PVC SAN. SEWER SDR 26 S=2.00%
10. EXTERIOR CLEAN OUT. SEE DETAIL, SHEET C-6.
11. 28 LF 8" PVC STORM SEWER SDR 26 S=0.50%
12. 112 LF 8" PVC STORM SEWER SDR 26 S=0.50%
13. 8 LF 6" PVC STORM SEWER SDR 26 S=1.00% CONNECTED TO ROOF DRAIN.
14. 62 LF 10" PVC STORM SEWER SDR 26 S=0.50%
15. 142 LF 12" PVC STORM SEWER SDR 26 S=0.50%
16. 53 LF 12" PVC STORM SEWER SDR 26 S=1.00%
17. EXISTING CATCHBASIN TO BE REMOVED. BACKFILL TRENCH PER GENERAL NOTE 3, THIS SHEET.
18. EXISTING STORM SEWER TO BE REMOVED. BACKFILL TRENCH PER GENERAL NOTE 3, THIS SHEET.
19. PORTION OF EXISTING 6" STORM SEWER DOWNSTREAM OF PROPOSED CB TC#5 TO REMAIN. CONTRACTOR SHALL INSPECT AND CLEAN AS NECESSARY TO VERIFY STORM SEWER IS IN GOOD AND OPERATING CONDITION.
20. ELECTRIC SERVICE SIZED AND ROUTED BY WE ENERGIES.
21. GAS SERVICE SIZED AND ROUTED BY WE ENERGIES.
22. EXISTING MANHOLE TO BE ADJUSTED. RIM=E125.71. LOWER RIM TO 125.44. CONTRACTOR SHALL VERIFY THAT EXISTING FRAME AND LID ARE HEAVY DUTY, TRAFFIC BEARING. REMOVE FRAME AND LID AND REPLACE WITH NEEHAH R-1661 W/TYPE "B" LID, STAMPED "SANITARY" AND "WAUKESHA", OR EQUAL, IF EXISTING FRAME AND LID NOT HEAVY DUTY TRAFFIC BEARING.
23. PORTION OF EXISTING 6" SANITARY SEWER SERVICE LINE DOWNSTREAM OF NEW SERVICE CONNECTION TO REMAIN. CONTRACTOR SHALL INSPECT AND CLEAN AS NECESSARY TO VERIFY SANITARY SEWER SERVICE LINE IS IN GOOD AND OPERATING CONDITION.
24. MAKE WATERTIGHT CONNECTION TO EXISTING CATCH BASIN, INV=124.08(N).
25. SAW CUT, REMOVE AND REPLACE IN KIND EXISTING ASPHALT PAVEMENT AS REQUIRED FOR UTILITY INSTALLATION.

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WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

UTILITY PLAN
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: 1"=20'

DRAWING NO. C-4

JOB NO. 18-16

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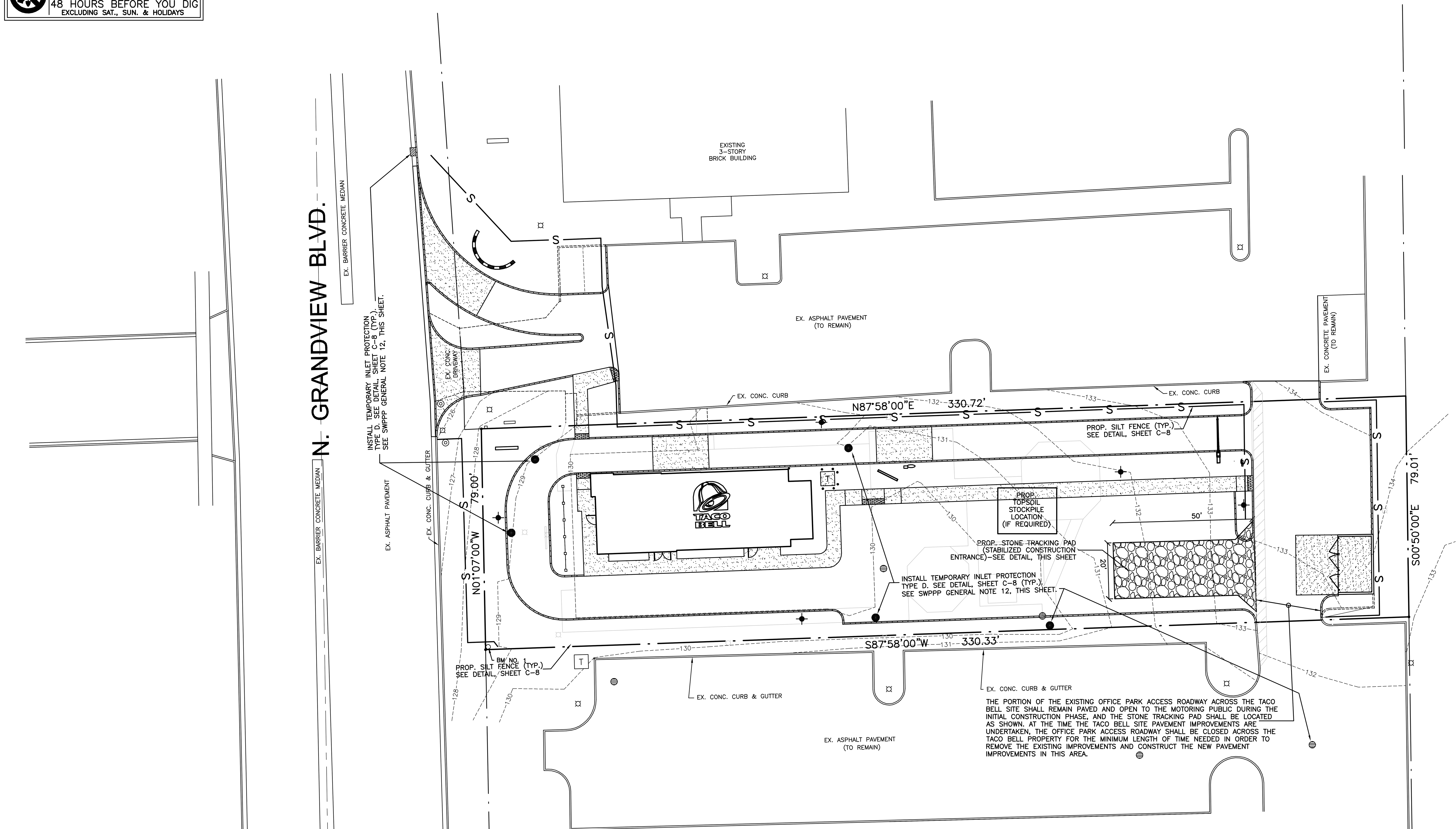
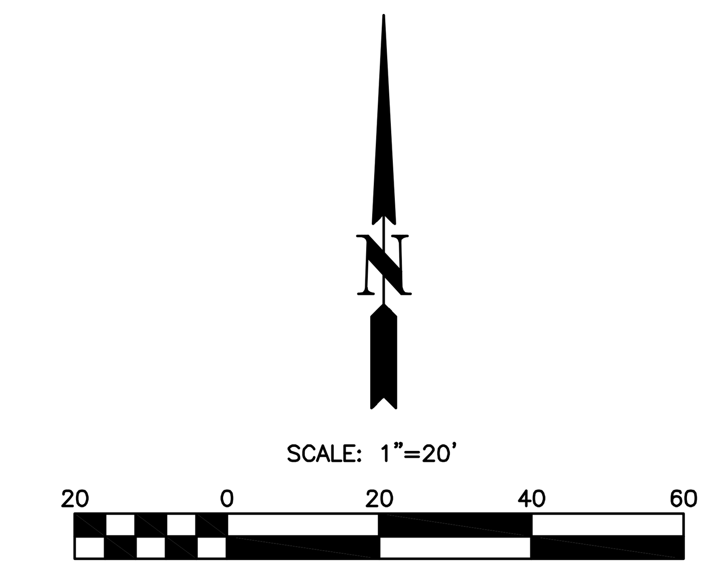




STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES

This Storm Water Pollution Prevention Plan has been prepared in compliance with the requirements of the City of Waukesha and the State of Wisconsin. The work to be done is stripping, stockpiling and grading of the project site shown in detail on the contract drawings. The following notes and requirements shall apply to work performed on this project:

1. Soil Erosion and sediment control features shall be constructed prior to the commencement of upland disturbance.
2. Hauling will not be allowed when the work site is too wet to maintain acceptable conditions on adjacent streets.
3. Adjacent streets will be manually or mechanically swept periodically as may be required, minimum at end of each working day or as directed by City Inspector. All streets are to be kept free from mud and debris.
4. Each catch basin will be installed with a sump as indicated on the drawings. The rims will be set at final grade. A temporary 1 foot deep sump shall be excavated in a 10 foot diameter area around the structure to act as a silt trap. Both sumps will be inspected after each rain and cleaned as required.
5. Soil stockpile areas shall be designated and surrounded by a geotextile fabric silt fence to intercept sediment-laden runoff from the stockpile. The fence shall be continuously maintained and sediment shall be removed to restore planned capacity as required.
6. If the stockpiles will not be used for construction activity for a period of more than 14 days, thay shall be protected with temporary vegetative cover.
7. No material from construction site shall be discharged to the storm sewer.
8. The contractor shall take whatever other steps are deemed necessary by the City Inspector to prevent erosion from taking place during the course of the construction project.
9. The contractor shall comply with all requirements of this plan and shall include the cost of such compliance in the total price bid for his contract.
10. All temporary and permanent erosion control measures must be maintained and repaired as needed. Erosion control features shall be inspected every 7 days or after 1/2" of rainfall. The general contractor will be responsible for inspection and repair during construction. The owner will be responsible if erosion control is required after the contractor has completed the project.
11. All work shall comply with "Wisconsin Department of Natural Resources Stormwater Construction Technical Standards and Construction Practice Standards" and all City of Oconomowoc requirements.
12. Install storm drain inlet protection device under the rim of each new and existing impacted storm structure to prevent eroded material from entering the storm sewer system during the construction project. Storm drain inlet protection devices shall be checked weekly and within 24 hours after every rain that produces 0.5 inches of rain or more during a 24 hour period and replaced if covered with dirt or torn. The contractor shall use extreme care not to allow eroded material to enter the storm structure when removing or changing the storm drain inlet protection device.
13. Watering shall be used as required to control dust on the project. A water truck shall be kept on the site at all times during mass earthwork construction, if required by the City.
14. The name, address and telephone number of the individual in responsible charge of erosion control measures during the construction project shall be given to the City Public Works Department prior to the start of construction.
15. Disturbed areas shall be protected with seeding according to the "Typical Soil Protection Chart" on this sheet.
16. All erosion control measures and inspections shall be documented on site in the site superintendent's log book.
17. A copy of the approved Storm Water Pollution Prevention Plan shall be maintained on the site at all times.
18. All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated or disposed of.
19. Rubbish, trash, garbage, litter, or other such materials shall be deposited into sealed containers. Materials shall be prevented from leaving the premises through the action of wind or stormwater discharge into drainage ditches or waters of the State.
20. All Contractors and Subcontractors involved with storm water pollution prevention shall obtain a copy of the storm water pollution prevention plan and the State of Wisconsin National Pollution Discharge Elimination General Permit (NPDES Permit) and become familiar with their contents.
21. The Contractor shall implement best management practices as required by the SWPPP. Additional best management practices shall be implemented as dictated by conditions at no additional cost to the owner throughtout all phases of construction.
22. Best management practices (BMP'S) and controls shall conform to federal, state, or local requirements or manual of practice. As applicable Contractor shall implement additional controls as directed by permitting agency or owner.
23. All temporary erosion and sediment control items are to be removed within thirty (30) days of the site's final stabilization by the contractor.
24. All construction activities within the boundaries of the project as well as all construction activities involved in making any connections to utilities outside the boundaries of the project shall comply with the requirements of this plan. This Storm Water Pollution Prevention Plan shall cover all such activities.
25. Refer to the Landscape Plan for locations and specifications of sodding, seeding and other permanent ground cover.

CONSTRUCTION SEQUENCE

1. INSTALL INLET PROTECTION FOR EXISTING DRAINAGE STRUCTURES (IF APPLICABLE).
2. INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
3. INSTALL STONE TRACKING PAD (STABILIZED CONSTRUCTION ENTRANCE).
4. PERFORM SITE DEMOLITION AS NOTED ON DEMOLITION PLAN (IF APPLICABLE).
5. STRIP EXISTING TOPSOIL AND STOCKPILE/STABILIZE.
6. CUT AND FILL SITE TO PLAN SUB-GRADE.
7. BEGIN BUILDING CONSTRUCTION.
8. CONSTRUCT UNDERGROUND IMPROVEMENTS, I.E. SANITARY SEWER AND WATERMAIN, ETC.***
9. CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN.
10. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
11. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

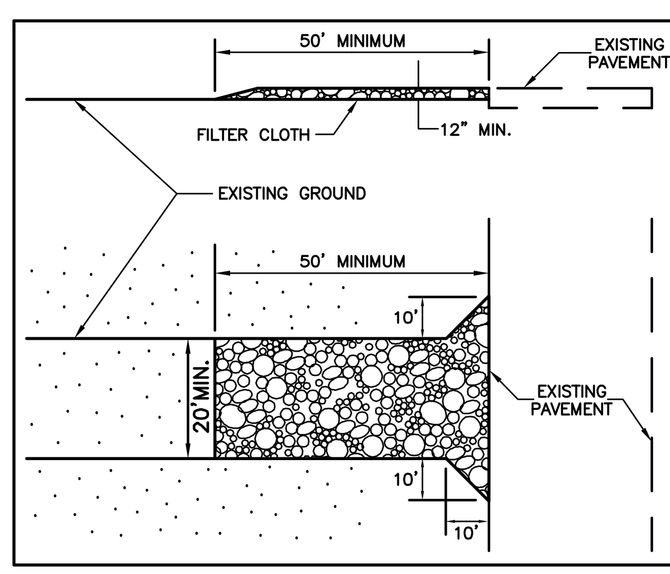
*** INSTALL INLET PROTECTION FOR DRAINAGE STRUCTURES (WHEN CONSTRUCTED).

TYPICAL SOIL PROTECTION CHART

Stabilization Type:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A----	----	----	XXX	XXX	X----	----			
Dormant Seeding	B----	----										
Temporary Seeding			C----	----	----	XXX	XXX	X----	----			
Sodding			E-XXX	----	----	----	----	----	----			
Mulching	F----	----	----	----	----	----	----	----	----	----	----	----

A= Kentucky Bluegrass @ 90 lbs/ac. Mixed with Perennial Ryegrass @ 30 lbs/ac.
B= Kentucky Bluegrass @ 135 lbs/ac. Mixed with Perennial Ryegrass @ 45 lbs/ac.
C= Spring Oats @ 100lbs/ac.
D= Wheat or Cereal Rye @150 lbs/ac.
E= Sod
F= Straw Mulch @ 2 tons/ac.
XXX= Irrigation needed

Irrigation should be provided as necessary to throughly establish growth.



CONSTRUCTION ENTRANCE SPECIFICATIONS

1. STONE SIZE – USE 3" TO 6" CLEAR OR WASHED STONE
2. THICKNESS – NOT LESS THAN TWELVE (12) INCHES.
3. FILTER CLOTH – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE – WISDOT TYPE R GEOTEXTILE FABRIC.
4. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAYS MUST BE REMOVED IMMEDIATELY.
5. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. TRACKING PAD SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD.

STONE TRACKING PAD
(TEMPORARY) N.T.S.

INSPECTIONS AND MAINTENANCE

ALL EROSION CONTROL DEVICES AND MEASURES SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED UNTIL THE SITE OR SECTIONS OF THE SITE ARE STABILIZED. ALL EROSION CONTROL DEVICES AND MEASURES SHALL BE INSPECTED BY A REPRESENTATIVE OF THE GENERAL CONTRACTOR ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT EXCEEDING 0.5" RAIN. WRITTEN INSPECTION REPORTS SHALL BE MAINTAINED ON SITE AND SHALL BE PRODUCED UPON REQUEST OF ANY LOCAL, STATE OR FEDERAL OFFICIAL. THE FOLLOWING SHALL BE THE MINIMUM MAINTENANCE REQUIREMENTS:

1. ANY INLET OR PIPE PROTECTION OR PERIMETER EROSION BARRIER THAT SHOWS SIGNS OF DETERIORATION OR UNDERMINING SHALL BE REPLACED OR REPAIRED AS REQUIRED.

2. CATCH BASINS SHALL BE INSPECTED AND CLEANED PERIODICALLY.

3. ANY SEEDED AREAS THAT SHOW SIGNS OF GULLIES OR EROSION SHALL BE REGRADED, RESEEDED, WATERED AND FERTILIZED AS REQUIRED TO MAINTAIN A COVER THAT IS ADEQUATE TO PREVENT EROSION.

4. SEDIMENT SHALL BE REMOVED FROM PERIMETER EROSION BARRIER WHEN SILT REACHES ONE HALF THE HEIGHT OF THE FENCE.

5. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF MUD ONTO THE RIGHT OF WAY OR PUBLIC PARKING LOTS. TOP DRESSING SHALL BE INSTALLED AS REQUIRED ON THE CONSTRUCTION ENTRANCE AT NO ADDITIONAL COST TO THE OWNER.

6. ANY MUD OR DEBRIS TRACKED ONTO A PUBLIC ROAD OR PARKING LOT SHALL BE REMOVED BY THE CONTRACTOR TO THE SATISFACTION OF THE JURISDICTIONAL BODY CONTROLLING THE ROAD OR PARKING LOT. THIS WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

CIVIL ENGINEERS SITE PLANNERS LAND SURVEYORS
NORTHWESTERN ENGINEERING CONSULTANTS, P.C.
675 N. NORTH COURT PALATINE, ILLINOIS 60067 (847) 520-8410
WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

STORM WATER POLLUTION PREVENTION PLAN
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS

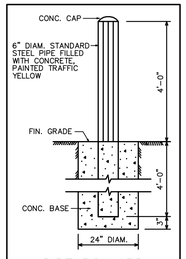
NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: 1"=20'

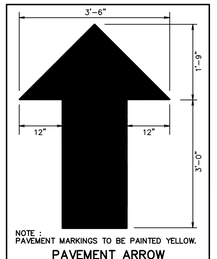
DRAWING NO.
C-5

JOB NO.
18-16

THE RECEIVER OF ELECTRONIC DATA TRANSMISSION BY USE THEREOF UNDERSTANDS AND AGREES AS FOLLOWS: PORTIONS OR ALL OF THE CIVIL ENGINEERING DRAWINGS FOR THIS PROJECT MAY BE TRANSMITTED TO THE CLIENT AS ELECTRONIC CADD FILES. THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE SUITABILITY OF THE ELECTRONIC DRAWING DATA FILES FOR ANY PURPOSE. DIMENSIONS OF ALL IMPROVEMENTS SHOWN ON THE HARD-COPY DRAWINGS TRANSMITTED TO THE CLIENT SHALL GOVERN OVER THE LOCATION OF THE IMPROVEMENTS AS LOCATED IN THE CADD FILES. THE CADD FILES HAVE BEEN PREPARED FOR THE SOLE PURPOSE OF PREPARING A SET OF 1 INCH EQUALS 20 FEET PAPER DRAWINGS. DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES DELIVERED AND THE PRINTED HARD-COPY CONSTRUCTION DOCUMENTS. THE RECEIVER SHALL COMPARE THE DATA WITH AVAILABLE HARD COPIES. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED CONSTRUCTION DOCUMENTS AND ELECTRONIC FILES, THE SIGNED OR SEALED HARD-COPY CONSTRUCTION DOCUMENTS SHALL GOVERN. THE ENGINEER DOES NOT WARRANT THE ACCURACY OR LONG TERM STABILITY OF THE CADD FILES DUE TO DATA TRANSMISSION VIA EITHER DISK OR E-MAIL, TRANSLATION, INCOMPATIBILITY WITH RECEIVING SYSTEMS, HARDWARE OR SOFTWARE OR WITH REGARDS TO ANY Y2K RELATED PROBLEMS. INFORMATION IN THIS ELECTRONIC DATA FILE IS NOT GUARANTEED ACCURATE AND SHALL NOT BE MODIFIED OR TRANSFERRED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION OF NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RECEIVER BY ACCEPTANCE OF THIS CADD FILE VIA EITHER E-MAIL OR DISK AGREES TO DEFEND, INDEMNIFY, AND HOLD NORTHWESTERN ENGINEERING CONSULTANTS, P.C., ITS OFFICERS, EMPLOYEES AND SUBCONSULTANTS HARMLESS FROM ALL CLAIMS, LOSSES, EXPENSES AND ATTORNEYS FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR ANY USE OF THESE MATERIALS. THE RECEIVER SHALL MAKE NO CLAIM NOR INITIATE ANY ACTION IN LAW OR EQUITY AGAINST NORTHWESTERN ENGINEERING CONSULTANTS, P.C., ITS OFFICERS, EMPLOYEES AND SUBCONSULTANTS WITH RESPECT TO ANY DEFECT ERROR OR OMISSION IN THE DATA. NORTHWESTERN ENGINEERING CONSULTANTS, P.C. ALONE RETAINS ALL OWNERSHIP, COPYRIGHT AND OTHER INTELLECTUAL PROPERTY INTERESTS IN THIS DATA.

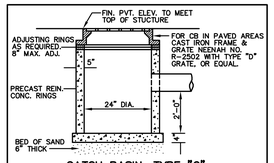


PIPE BOLLARD
N.T.S.

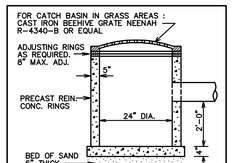


NOTE :
PAVEMENT MARKINGS TO BE PAINTED YELLOW.

PAVEMENT ARROW DETAIL
N.T.S.



CATCH BASIN, TYPE "C"
N.T.S.



CATCH BASIN, TYPE "C"
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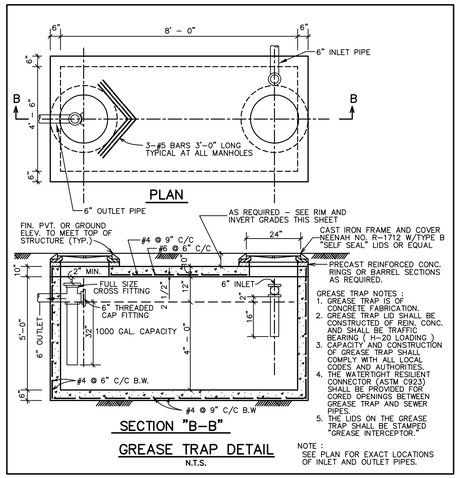


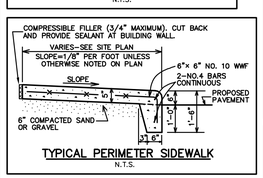
PLAN

SECTION "B-B"

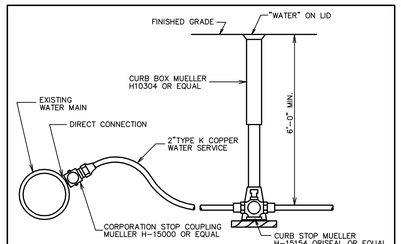
GREASE TRAP DETAIL
N.T.S.

GREASE TRAP NOTES :
1. GREASE TRAP IS OF CONCRETE FABRICATION.
2. GREASE TRAP LID SHALL BE CONSTRUCTED OF REIN. CONC. AND SHALL BE TRAFFIC BEARING (H-20 LOADING)
3. CAPACITY AND CONSTRUCTION OF GREASE TRAP SHALL COMPLY WITH ALL LOCAL CODES AND AUTHORITIES.
4. THE WATERTIGHT RESILIENT CONNECTOR (ASTM C923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN GREASE TRAP AND SEWER PIPES.
5. THE LIDS ON THE GREASE TRAP SHALL BE STAMPED "GREASE INTERCEPTOR."

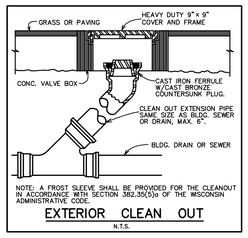
NOTE :
SEE PLAN FOR EXACT LOCATIONS OF INLET AND OUTLET PIPES.



TYPICAL PERIMETER SIDEWALK
N.T.S.

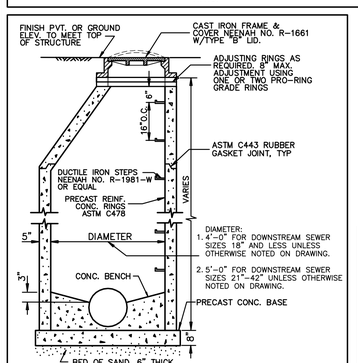


WATER SERVICE DETAIL
N.T.S.



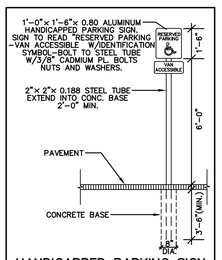
NOTE: A FROST SLEEVE SHALL BE PROVIDED FOR THE CLEANOUT IN ACCORDANCE WITH SECTION 382.35(5)a OF THE WISCONSIN ADMINISTRATIVE CODE.

EXTERIOR CLEAN OUT
N.T.S.

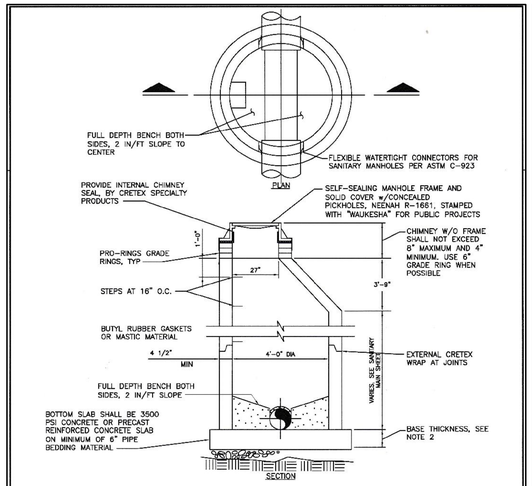


DIAMETER:
1. 4'-0" FOR DOWNSTREAM SEWER SIZES 18" AND LESS UNLESS OTHERWISE NOTED ON DRAWING.
2. 5'-0" FOR DOWNSTREAM SEWER SIZES 21"-42" UNLESS OTHERWISE NOTED ON DRAWING.

STORM MANHOLE
N.T.S.



HANDICAPPED PARKING SIGN
N.T.S.

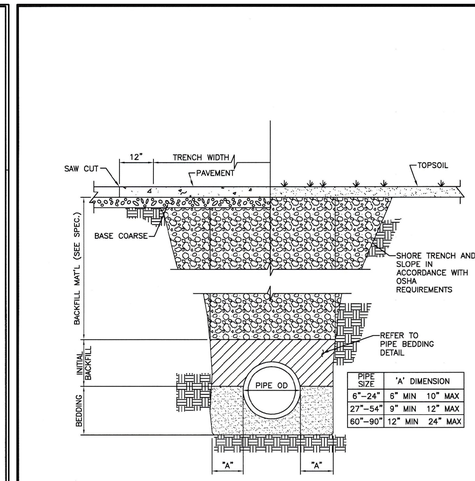


NOTES:
1. MANHOLE SECTIONS, BASES AND TOP SLABS SHALL BE PRECAST REINFORCED CONCRETE CONSTRUCTED IN ACCORDANCE WITH ASTM C-478.
2. THE BASE THICKNESS SHALL BE 8-INCHES FOR DEPTHS 10 FEET OR LESS AND 12-INCHES FOR DEPTHS OVER 10 FEET.
3. JOINTS BETWEEN MANHOLE SECTIONS SHALL BE TONGUE AND GROOVE WITH COMPRESSION TYPE RUBBER GASKET CONFORMING TO ASTM C443 OR/AND APPROVED BITUMASTIC MATERIAL
4. THE INVERT CHANNEL SHALL BE TROWELED SMOOTH, DENSE SURFACE AND A SEMICIRCLE SHAPE CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTIONS.
5. ALL PIPE SHALL BE GROUTED IN-PLACE INTO NEW MANHOLE WALLS. PROVIDE A WATERTIGHT, FLEXIBLE SEAL BETWEEN PIPE AND MANHOLE. CONNECTORS SHALL BE MANUFACTURED BY A-LOK PRODUCTS, INC OR EQUAL AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. MANHOLE CASTINGS SHALL BE NEENAH R-1661 FRAME AND SELF-SEALING SOLID COVER WITH CONCEALED PICK-HOLES WITH THE "CITY OF WAUKESHA" & "DPW" ON PUBLIC MANHOLES.
7. ALL ANNULAR SPACES SHALL BE FILLED WITH A MASTIC OR CEMENTITIOUS FILLER.

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
--SANITARY MANHOLE--

APPROVED: ALEX DAMIEN DATE:
APPROVED: DATE:
DRAWN BY: DSB DATE:
CHECKED BY: DATE:
PLOT SCALE : 0.715053
PLOT DATE : 11/21/2017 7:38 AM
DETAIL NUMBER: 05-0001
PROJECT NO:



PIPE SIZE	'A' DIMENSION		
6"-24"	6" MIN	10" MAX	
27"-54"	9" MIN	12" MAX	
60"-90"	12" MIN	24" MAX	

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAIL
--PIPE TRENCH DETAIL--

APPROVED: ALEX DAMIEN DATE:
APPROVED: DATE:
DRAWN BY: JAW DATE:
CHECKED BY: DATE:
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PLOT DATE : 11/21/2017 12:03 PM
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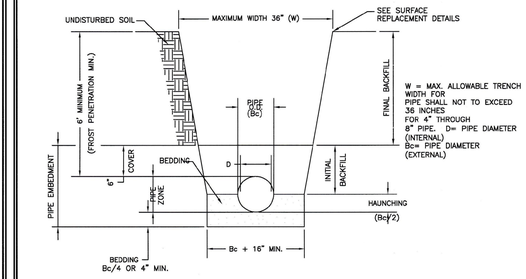

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
OPEN TRENCH METHOD

APPROVED: ALEX DAMIEN DATE:
APPROVED: DATE:
DRAWN BY: DSB DATE:
CHECKED BY: DATE:
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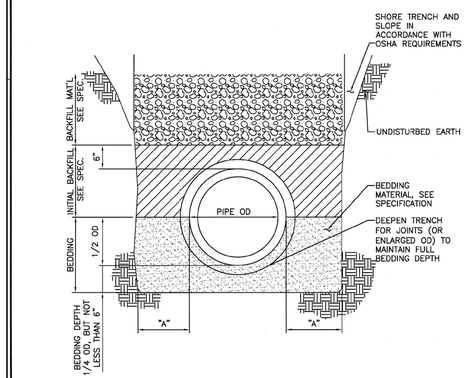
PLOT DATE : 11/27/2017 7:35 AM
DETAIL NUMBER: 05-0010
PROJECT NO:



NOTES:
1. REFER TO PIPE TRENCH DETAIL.
2. TRANSITION OF BEDDING TYPES SHALL ONLY BE MADE AT PIPE JOINTS.
3. COMPACTION SHALL NOT BE DONE IN LAYERS MORE THAN 12" THICK.
4. BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90% STANDARD PROCTOR.

CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAIL
--PIPE BEDDING DETAIL--

APPROVED: ALEX DAMIEN DATE:
APPROVED: DATE:
DRAWN BY: JAW DATE:
CHECKED BY: DATE:
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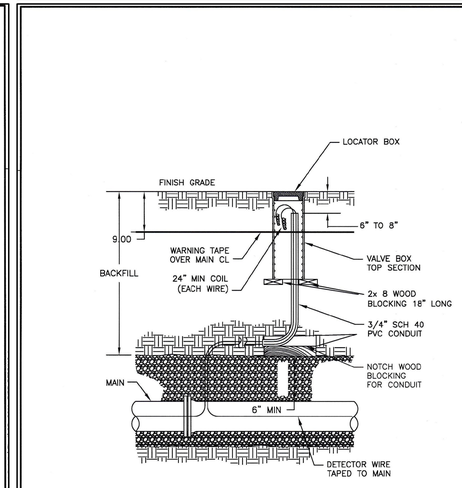
DETAIL NUMBER: 05-0011
PROJECT NO:



CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
--DETECTOR WIRE AND LOCATION BOX--

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APPROVED: DATE:
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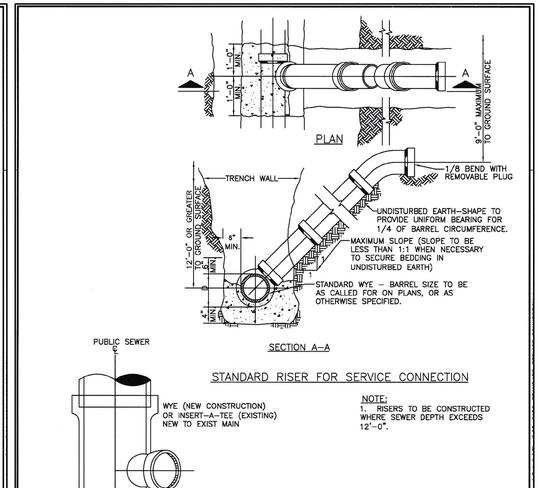
PROJECT NO:



STANDARD RISER FOR SERVICE CONNECTION

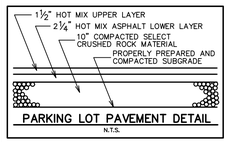
NOTE:
1. RISERS TO BE CONSTRUCTED WHERE SEWER DEPTH EXCEEDS 12'-0".

STANDARD SERVICE CONNECTION

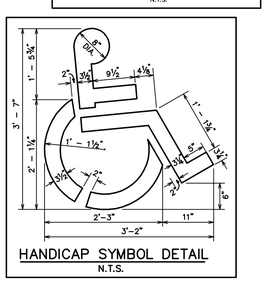
CITY OF WAUKESHA
DEPARTMENT OF PUBLIC WORKS

STANDARD CONSTRUCTION DETAIL
-STANDARD SERVICE CONNECTION -

APPROVED: ALEX DAMIEN DATE:
APPROVED: DATE:
DRAWN BY: JAW DATE:
CHECKED BY: DATE:
PLOT SCALE : 1"=1'
PLOT DATE : 11/21/2017 12:24 PM
DETAIL NUMBER: 05-0156
PROJECT NO:



PARKING LOT PAVEMENT DETAIL
N.T.S.



HANDICAP SYMBOL DETAIL
N.T.S.

THE BEDFORD GIS ELECTRONIC DATA TRANSMISSION BY USE BEFORE UNDERSIGNED AND AGREES AS FOLLOWS:
FOR COPIES OF ALL OF THE CIVIL ENGINEERING DRAWING OR THE PRODUCT MAY BE TRANSMITTED TO THE CLIENT AS ELECTRONIC CADD FILES. THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE CADD FILES. THE CADD FILES MAY NOT REPRESENT THE ENGINEER'S FINAL OR CERTIFIED WORK PRODUCT AND MAY CONTAIN ERRORS, OMISSIONS, OR INCORRECT INFORMATION. THE CLIENT ACCEPTS THE CADD FILES IN "AS IS" CONDITION AND ACKNOWLEDGES THAT THE CADD FILES MAY CONTAIN DEFECTS OR INACCURACIES WHICH MAY NOT BE DISCOVERED UNTIL AFTER THE CADD FILES ARE RECEIVED. THE CLIENT AGREES TO FIND, COMMUNICATE, AND CORRECT ANY DEFECTS OR INACCURACIES IN THE CADD FILES WITHIN SIXTY (60) DAYS AFTER RECEIPT THEREOF. THE CLIENT AGREES TO ACCEPT THE CADD FILES AS-IS, WITHOUT ENGINEER'S CORRECTION OF DEFECTS OR INACCURACIES, AND THAT THE CLIENT WILL NOT HOLD ENGINEER LIABLE FOR ANY DEFECTS OR INACCURACIES IN THE CADD FILES DUE TO DATA CORRUPTION, MEDIA FAILURE OR CLIENT ALTERATION, EXCEPT FOR THE CORRECTION OF DEFECTS AND INACCURACIES REPORTED WITHIN SIXTY (60) DAYS AFTER RECEIPT. THE CLIENT AGREES THAT THE CADD FILES ARE NOT GUARANTEED ACCURATE AND SHALL NOT BE MODIFIED OR TRANSFERRED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION OF NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RECEIVER BY ACCEPTANCE OF THIS CADD FILES AGREES TO GIVE NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RIGHT TO REVIEW THE MODIFIED CADD FILES. THE CLIENT AGREES TO INDEMNIFY AND HOLD NORTHWESTERN ENGINEERING CONSULTANTS, P.C. HARMLESS FROM ANY CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO, ATTORNEY'S FEES AND COSTS OF DEFENSE, ARISING OUT OF OR RESULTING FROM THE MODIFICATION OF THE CADD FILES OTHER THAN BY NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RECEIVER AGREES TO ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE CADD FILES. THE RECEIVER SHALL MAKE NO CLAIM NOR INITIATE ANY ACTION IN LAW OR EQUITY AGAINST NORTHWESTERN ENGINEERING CONSULTANTS, P.C. FOR ANY DAMAGES, LOSSES OR EXPENSES ARISING OUT OF OR RESULTING FROM THE USE OF THE CADD FILES.
THE RECEIVER AGREES TO INDEMNIFY AND HOLD NORTHWESTERN ENGINEERING CONSULTANTS, P.C. HARMLESS FROM ANY CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING BUT NOT LIMITED TO, ATTORNEY'S FEES AND COSTS OF DEFENSE, ARISING OUT OF OR RESULTING FROM THE USE OF THE CADD FILES OUTSIDE THE SCOPE OF THE RECEIVER'S PROJECT WITH RESPECT TO THE CADD FILES, INCLUDING BUT NOT LIMITED TO, ANY CLAIM THAT THE USE OF THE CADD FILES INFRINGES ON THE SAFE, NOTWITHSTANDING CONTRACTING FOR, ALL RISKS, ALL OWNERSHIP, COPYRIGHT AND OTHER INTELLECTUAL PROPERTY INTERESTS IN THE DATA.

CIVIL ENGINEERS SITE PLANNERS LAND SURVEYORS
NORTHWESTERN ENGINEERING CONSULTANTS, P.C.
675 N. NORTH COURT PALATINE, ILLINOIS 60067 (847) 520-8410
WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

DETAILS
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS		
NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: N.T.S.

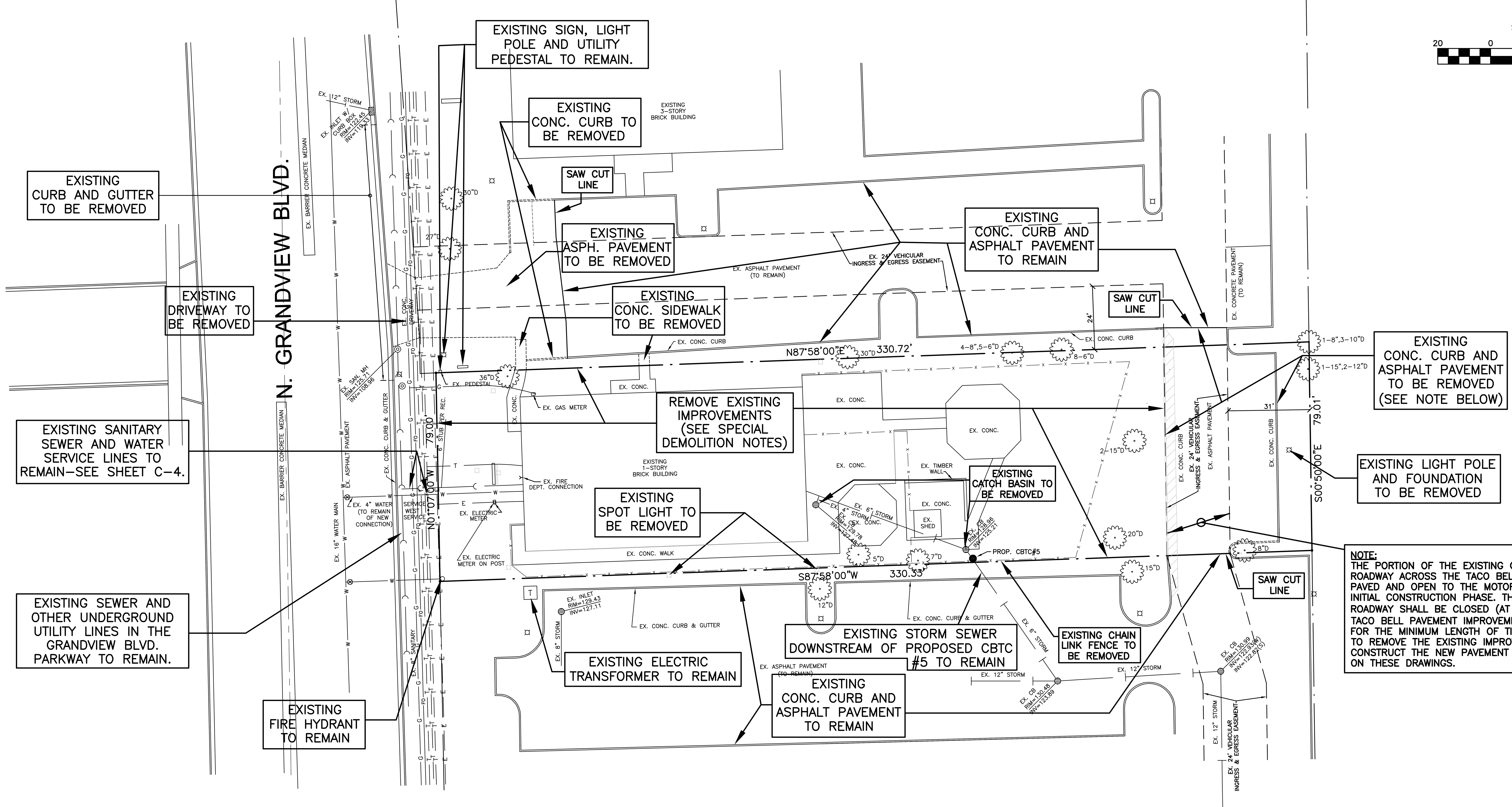
DRAWING NO.
C-6

JOB NO.
18-16

SPECIAL NOTE:
Existing grades and improvements are shown from the best information available and must be verified in the field by the contractor prior to the start of construction. Any discrepancy with the plan shall be immediately reported to the engineer.

OPERATES 24 HOURS 365 DAYS

CALL DIGGERS HOTLINE
1-800-242-8511
WITH THE FOLLOWING:
COUNTY: WAUKESHA COUNTY
CITY-TOWNSHIP: WAUKESHA
SEC. & 1/4 SEC. NO.#: NE¼ 28-7-19
48 HOURS BEFORE YOU DIG
EXCLUDING SAT., SUN. & HOLIDAYS



SCALE: 1"=20'
20 0 20 40 60

NOTE:
THE PORTION OF THE EXISTING OFFICE PARK ACCESS ROADWAY ACROSS THE TACO BELL SITE SHALL REMAIN PAVED AND OPEN TO THE MOTORING PUBLIC DURING THE INITIAL CONSTRUCTION PHASE. THIS SECTION OF ACCESS ROADWAY SHALL BE CLOSED (AT THE TIME THE ONSITE TACO BELL PAVEMENT IMPROVEMENTS ARE UNDERTAKEN) FOR THE MINIMUM LENGTH OF TIME NEEDED IN ORDER TO REMOVE THE EXISTING IMPROVEMENTS AND CONSTRUCT THE NEW PAVEMENT IMPROVEMENTS SHOWN ON THESE DRAWINGS.

SPECIAL DEMOLITION NOTES

1. All utility companies are to be contacted to permit marking their facilities before any work is done on the site.
2. The contractor shall be fully responsible for the demolition of existing on site facilities above and underground. All buildings, foundations, pavements, driveways, walks, fences, signs, storage tanks, septic tanks, light poles and other structures existing on the site are to be removed and disposed of off-site by the contractor, excepting that which is noted on the drawings to remain or is approved for re-use in the new construction. The contractor is responsible for the removal from the site of all demolished materials, the filling of all depressions caused by demolition, and the grading of these areas so as not to be objectionable to view. The contractor shall observe all required safety precautions in the performance of his work. The contractor shall comply with any recommendations in the Soils Report for the site for the removal of existing facilities.
3. Contractor is to verify that all existing utility service lines have been shut off or disconnected at their respective main lines before beginning structure and pavement removal on the site.
4. All existing buildings, foundations, utilities, landscaping and other improvements on adjacent properties shall be protected at all times during demolition and construction work. The contractor is responsible to provide and install any materials, equipment, and/or manpower necessary to accomplish this.
5. The owner shall be provided with copies of all demolition permits and utility information prior to the commencement of the work.
6. Any excavations caused by the removal of existing underground improvements shall be backfilled with compacted structural fill material in accordance with the soils engineer's requirements.
7. The contractor may at his option remove and stockpile existing stone base course material on the site. Stockpiled material approved by the soils engineer may be reused as part of the structural fill material required on the site. The balance of the material shall be removed from the site and legally disposed of by the contractor.
8. Any existing water wells on the site shall be abandoned and capped in accordance with all County Health Department and State of Wisconsin requirements.
9. The contractor shall meet with utility company representatives prior to commencing demolition work to review if there are any utility lines on the site serving other properties. If there are utility lines serving other properties, these lines shall remain in place and be carefully protected from damage during the demolition and construction work.
10. The contractor is advised that the site contains some trees and landscaping. The contractor shall make his own investigation and shall include the cost of the tree, tree stump, and landscaping removal in his demolition work as required. Any trees whose trunk is located on both sides of any Taco Bell property line shall remain and be protected, unless written permission is obtained from the adjoining property owner to remove said trees. Verify the exact scope of the landscape material removal/preservation with the landscape drawings.

THE RECEIVER OF ELECTRONIC DATA TRANSMISSION BY USE THEREOF UNDERSTANDS AND AGREES AS FOLLOWS:
PORTIONS OR ALL OF THE CIVIL ENGINEERING DRAWINGS FOR THIS PROJECT MAY BE TRANSMITTED TO THE CLIENT AS ELECTRONIC CADD FILES. THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE SUITABILITY OF THE ELECTRONIC DRAWING DATA FILES FOR ANY PURPOSE. DIMENSIONS OF ALL IMPROVEMENTS SHOWN ON THE HARD-COPY DRAWINGS TRANSMITTED TO THE CLIENT SHALL GOVERN OVER THE LOCATION OF THE IMPROVEMENTS AS LOCATED IN THE CADD FILES. THE CADD FILES HAVE BEEN PREPARED FOR THE SOLE PURPOSE OF PREPARING A SET OF 1 INCH EQUALS 20 FEET PAPER DRAWINGS. DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES DELIVERED AND THE PRINTED HARD-COPY CONSTRUCTION DOCUMENTS. THE RECEIVER SHALL COMPARE THE DATA WITH AVAILABLE HARD COPIES. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED CONSTRUCTION DOCUMENTS AND ELECTRONIC FILES, THE SIGNED OR SEALED HARD-COPY CONSTRUCTION DOCUMENTS SHALL GOVERN. THE ENGINEER DOES NOT WARRANT THE ACCURACY OR LONG TERM STABILITY OF THE CADD FILES DUE TO DATA TRANSMISSION VIA EITHER DISK OR E-MAIL, TRANSLATION, INCOMPATIBILITY WITH RECEIVING SYSTEMS, HARDWARE OR SOFTWARE OR WITH REGARDS TO ANY Y2K RELATED PROBLEMS. INFORMATION IN THIS ELECTRONIC DATA FILE IS NOT GUARANTEED ACCURATE AND SHALL NOT BE MODIFIED OR TRANSFERRED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION OF NORTHWESTERN ENGINEERING CONSULTANTS, P.C. THE RECEIVER BY ACCEPTANCE OF THIS CADD FILE VIA EITHER E-MAIL OR DISK AGREES TO DEFEND, INDEMNIFY, AND HOLD NORTHWESTERN ENGINEERING CONSULTANTS, P.C., ITS OFFICERS, EMPLOYEES AND SUBCONSULTANTS HARMLESS FROM ALL CLAIMS, LOSSES, EXPENSES AND ATTORNEYS FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR ANY USE OF THESE MATERIALS. THE RECEIVER SHALL MAKE NO CLAIM NOR INITIATE ANY ACTION IN LAW OR EQUITY AGAINST NORTHWESTERN ENGINEERING CONSULTANTS, P.C., ITS OFFICERS, EMPLOYEES AND SUBCONSULTANTS WITH RESPECT TO ANY DEFECT ERROR OR OMISSION IN THE DATA. NORTHWESTERN ENGINEERING CONSULTANTS, P.C. ALONE RETAINS ALL OWNERSHIP, COPYRIGHT AND OTHER INTELLECTUAL PROPERTY INTERESTS IN THIS DATA.

CIVIL ENGINEERS SITE PLANNERS LAND SURVEYORS
NORTHWESTERN ENGINEERING CONSULTANTS, P.C.
675 N. NORTH COURT PALATINE, ILLINOIS 60067 (847) 520-8410
WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

DEMOLITION PLAN
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS

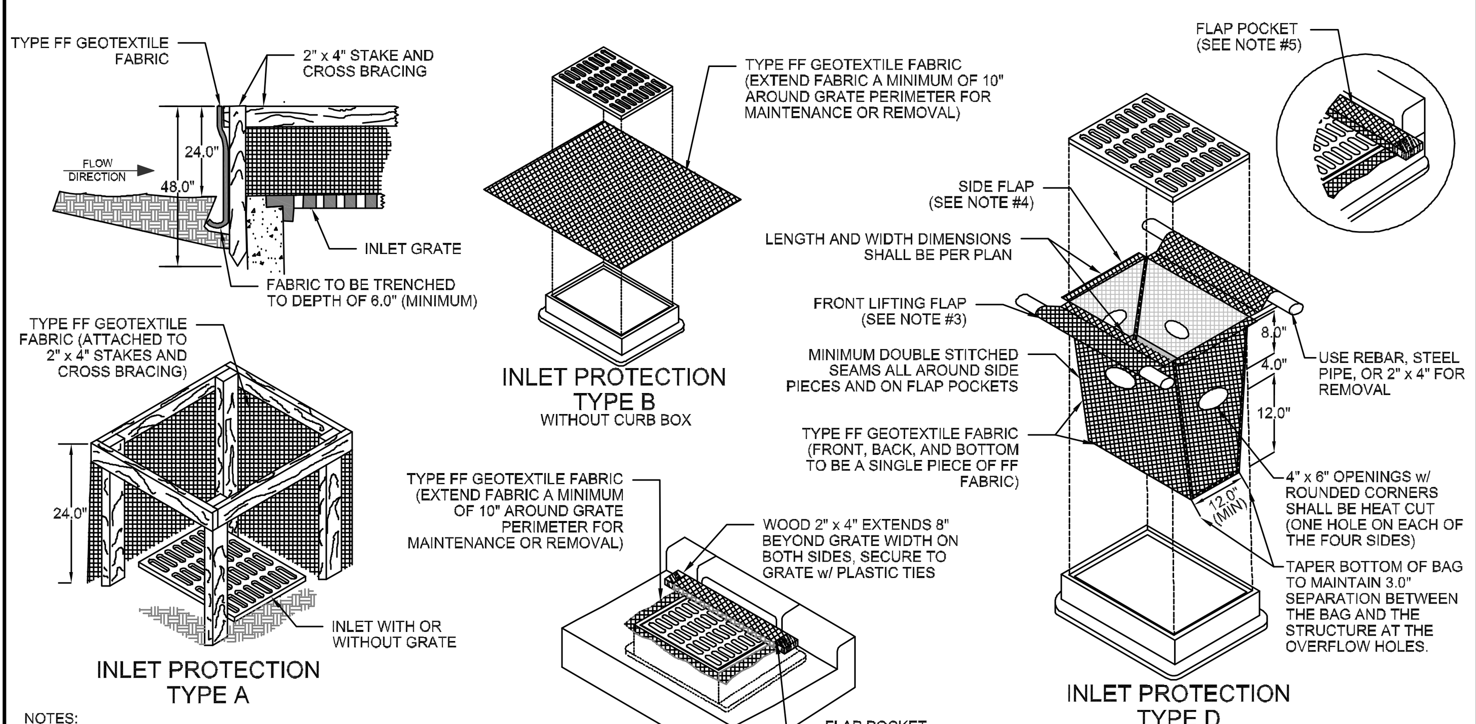
NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: 1"=20'

DRAWING NO. C-7

JOB NO. 18-16

FIGURE 1. INLET PROTECTION TYPES A, B, C AND D



NOTES:

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

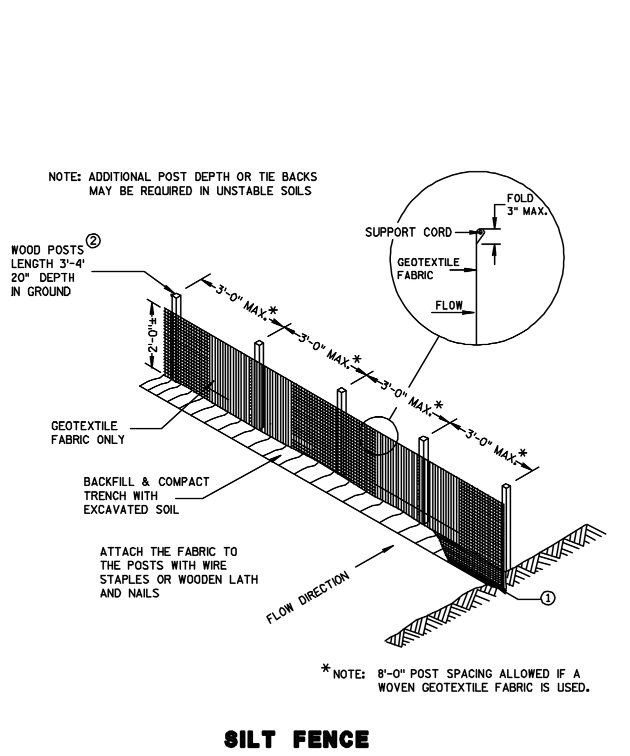
MAINTENANCE NOTES:

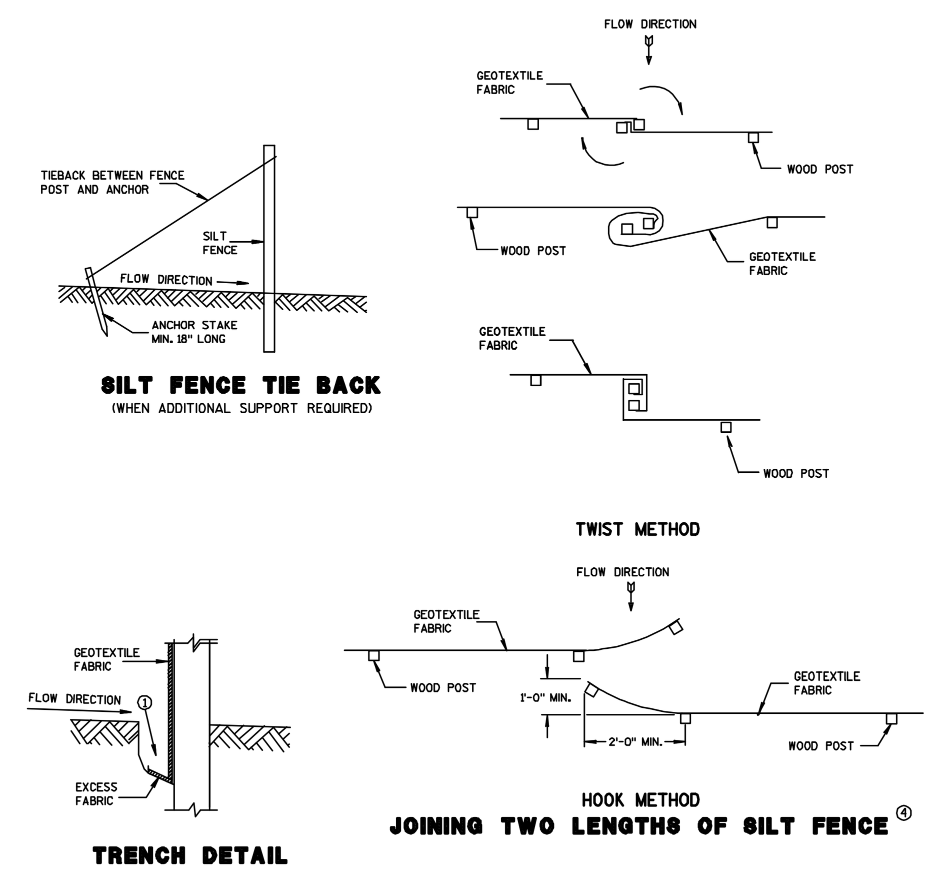
1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

WISCONSIN DEPT. OF NATURAL RESOURCES
1060 TECHNICAL STANDARD No.
REVISION DATE
NOT TO SCALE

GENERAL NOTES

1. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
3. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.





This drawing based on Wisconsin Department of Transportation Standard Detail Drawing 8 E 9-6.

SILT FENCE

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-⅛"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-1¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-½"

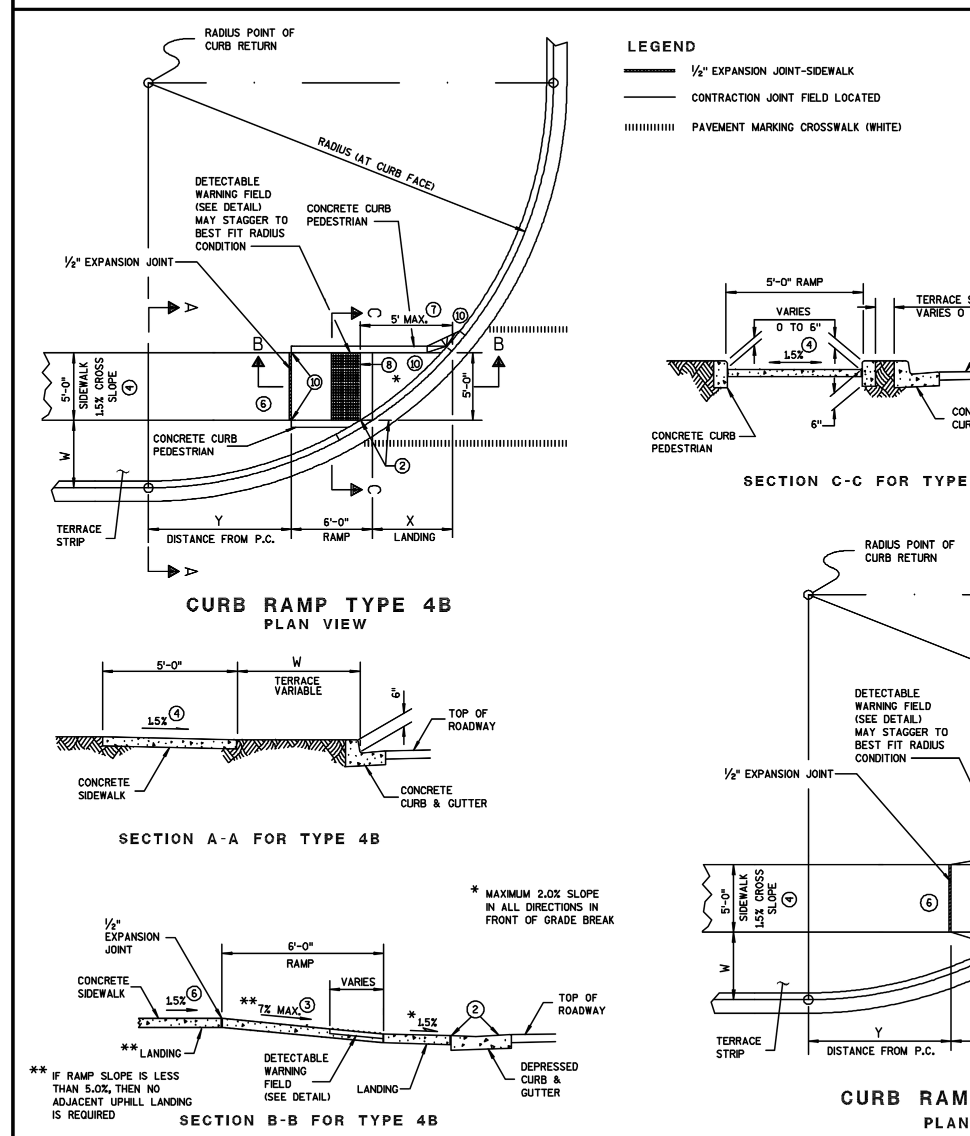
INTERMEDIATE RADII CAN BE INTERPOLATED

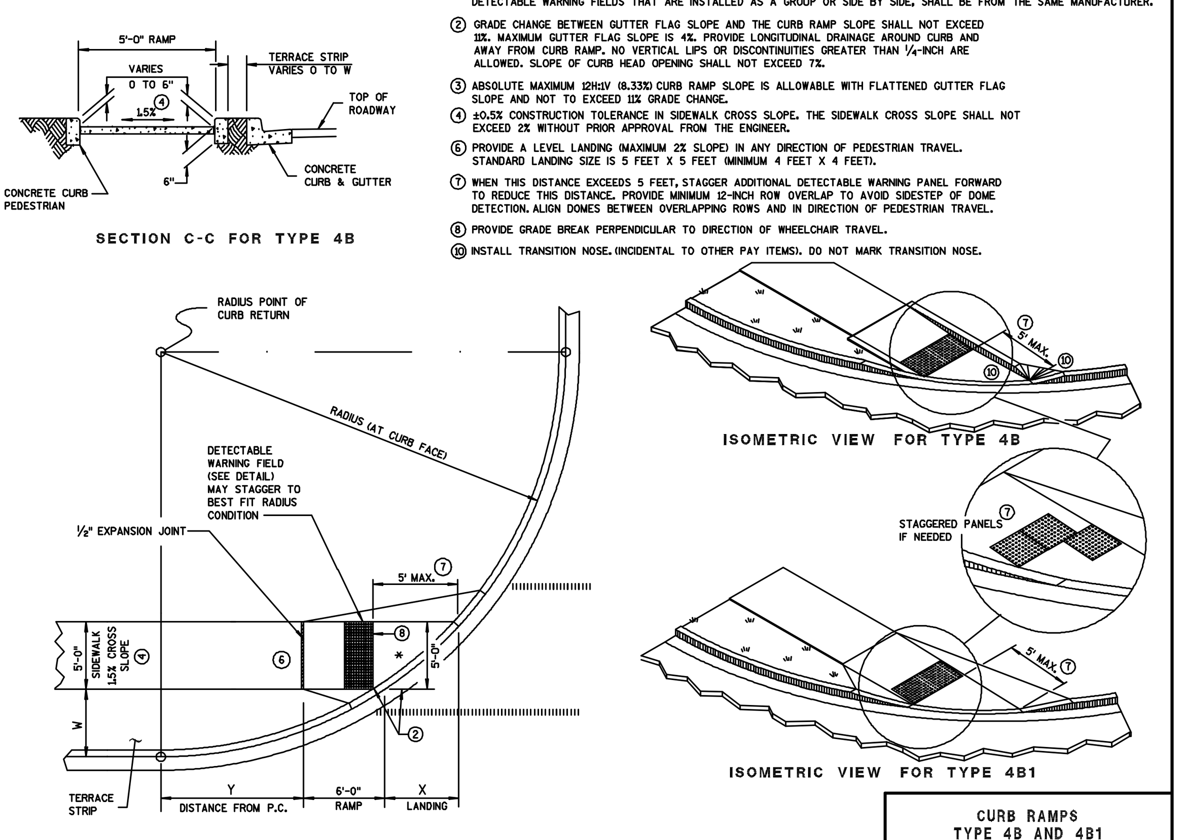
LEGEND
½" EXPANSION JOINT-SIDEWALK
CONTRACTION JOINT FIELD LOCATED
PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

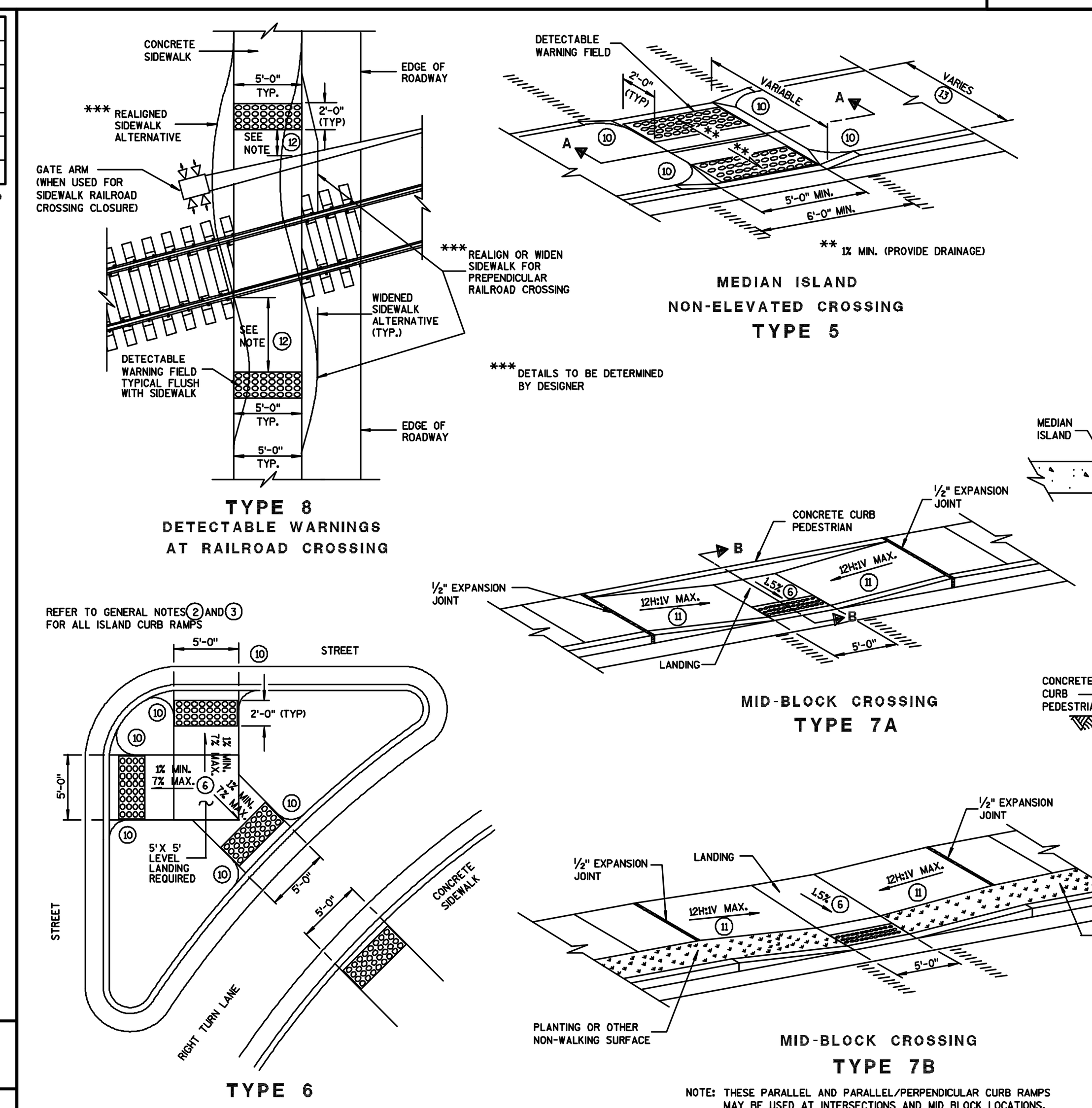
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
3. ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).
7. WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
10. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.





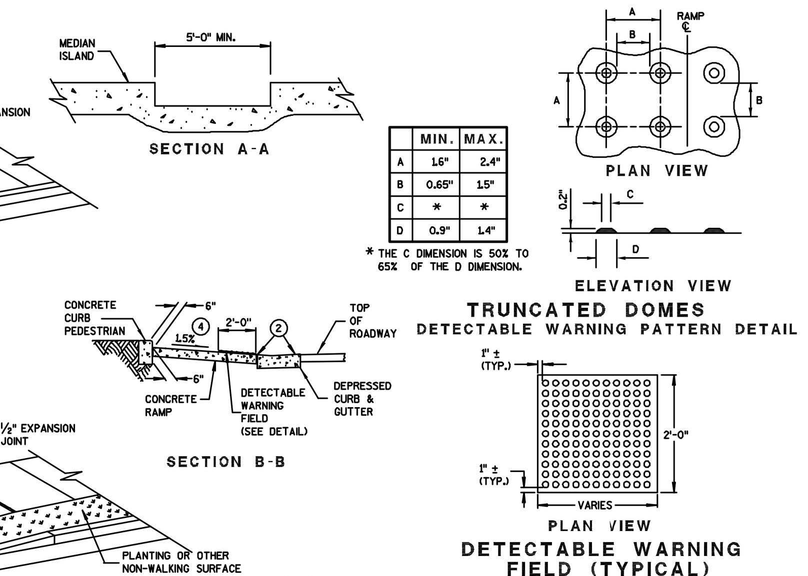
CURB RAMPS
TYPE 4B AND 4B1
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
3. ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).
10. INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.
11. SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
12. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 15 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.
13. DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

LEGEND
½" EXPANSION JOINT-SIDEWALK
CONTRACTION JOINT FIELD LOCATED
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
APPROVED June, 2016 DATE FHWA /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

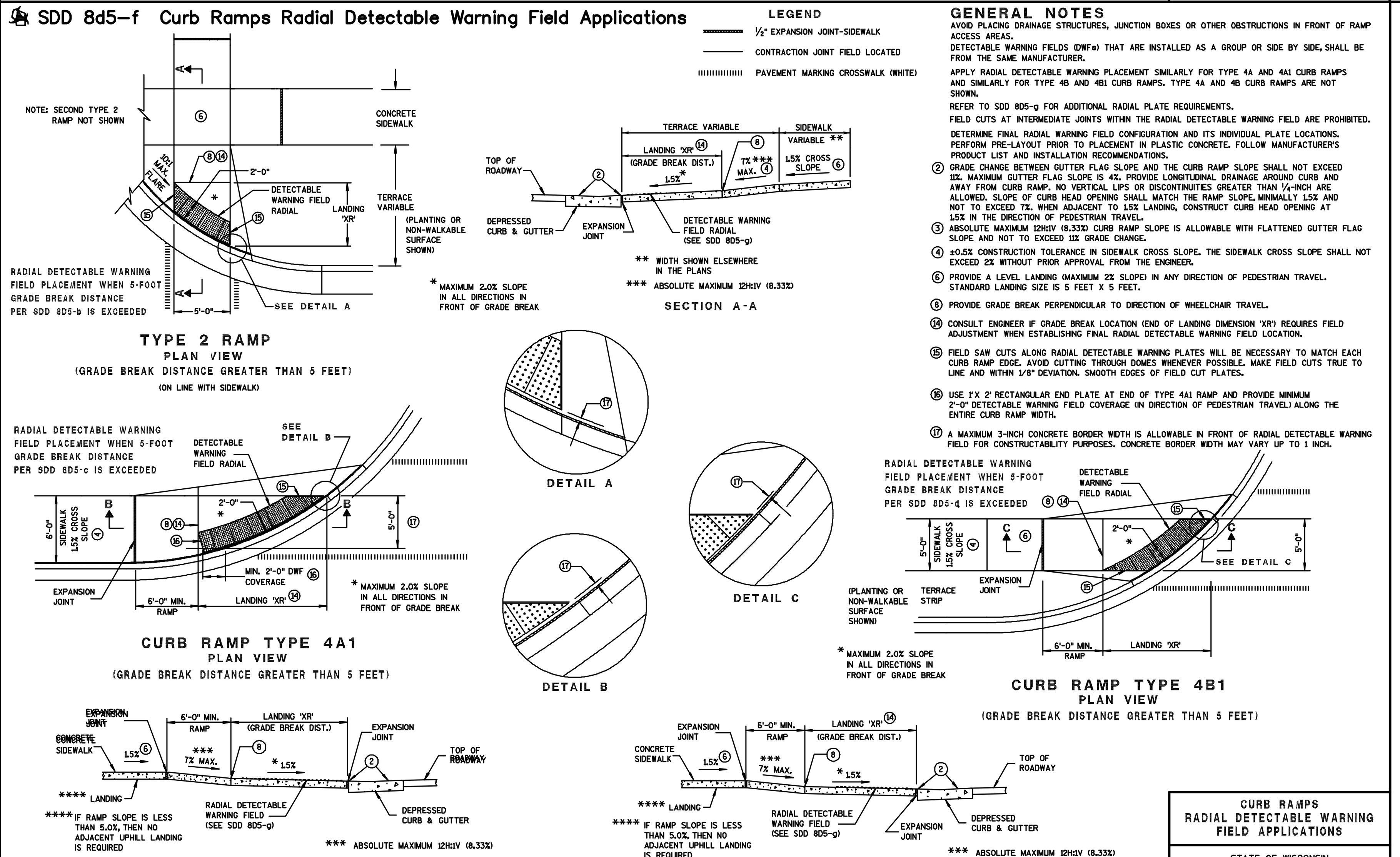
SDD 8d5-f Curb Ramps Radial Detectable Warning Field Applications

LEGEND
½" EXPANSION JOINT-SIDEWALK
CONTRACTION JOINT FIELD LOCATED
PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

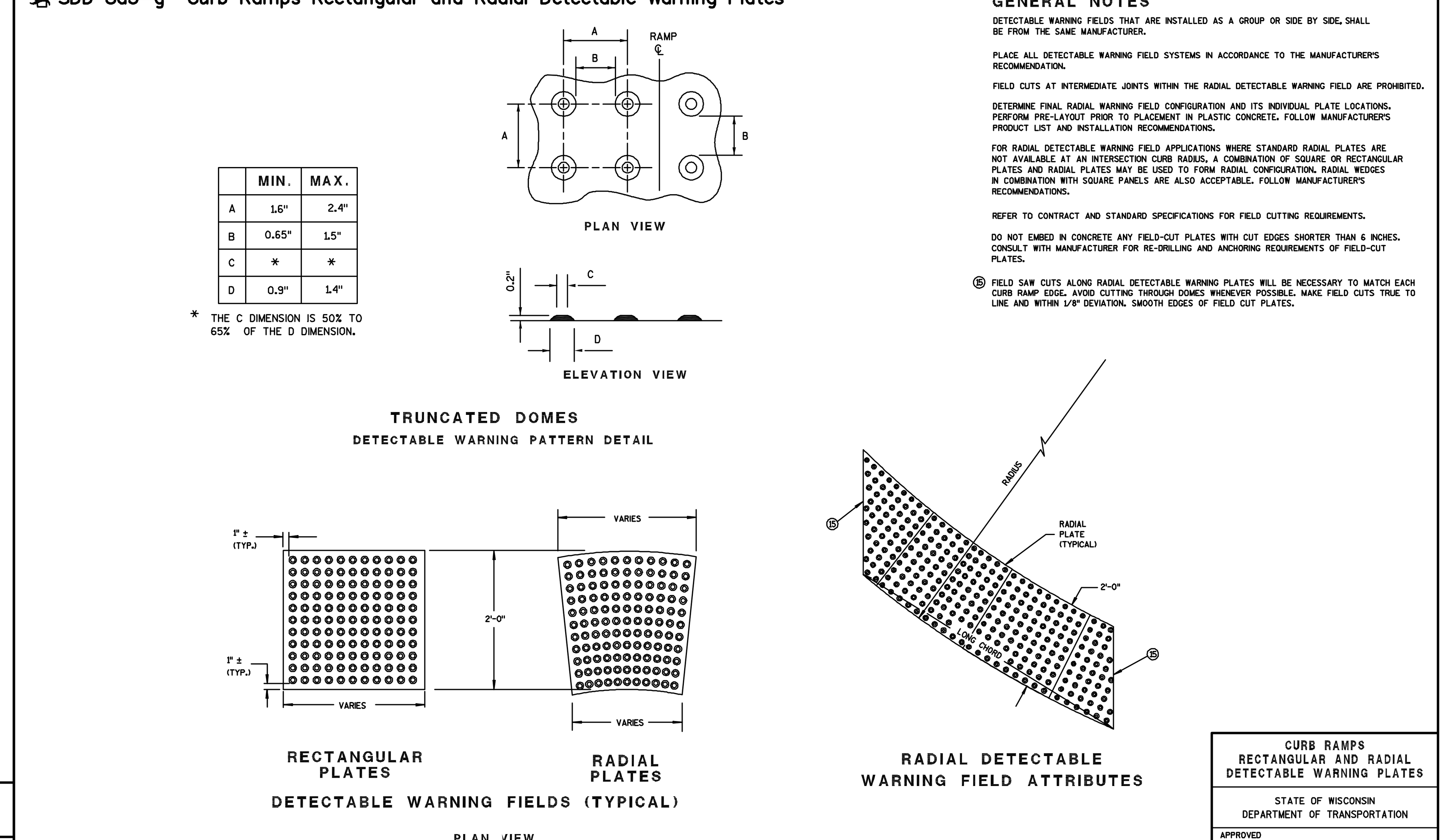
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.
REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.
FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
14. CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.
15. FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.
16. USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.
17. A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 8d5-g Curb Ramps Rectangular and Radial Detectable Warning Plates



	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

15. FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

CURB RAMPS
RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
APPROVED June, 2017 DATE FHWA /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

CIVIL ENGINEERS SITE PLANNERS LAND SURVEYORS
NORTHWESTERN ENGINEERING CONSULTANTS, P.C.
675 N. NORTH COURT PALATINE, ILLINOIS 60067 (847) 520-8410
WISCONSIN ENGINEERING CORP LICENSE NUMBER 3525-11 EXPIRES 01/31/20

WISDOT & WISDNR DETAILS
TACO BELL RESTAURANT
2707 N. GRANDVIEW BOULEVARD
WAUKESHA, WISCONSIN

REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY: KRL
CHECKED BY: DMH
DATE: 1-17-19
SCALE: N.T.S.

DRAWING NO. C-8

JOB NO. 18-16

THE RECEIVER OF ELECTRONIC DATA TRANSMISSION BY USE THEREOF UNDERSTANDS AND AGREES AS FOLLOWS:
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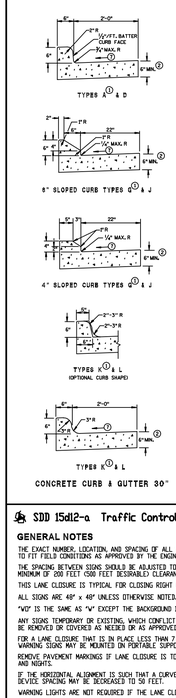
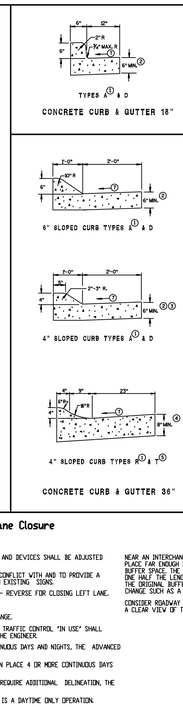
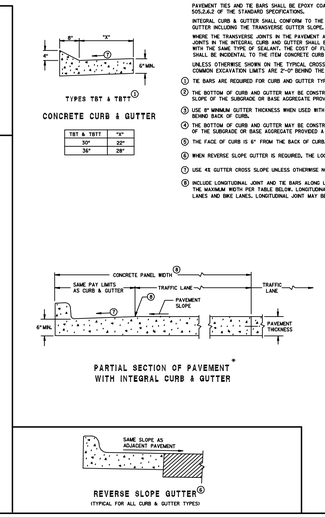
8D1 sheet a: Concrete Curb, Concrete Curb & Gutter and Ties







TBT & TBTT	"X"
30"	22"
36"	28"

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF PURCHASING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

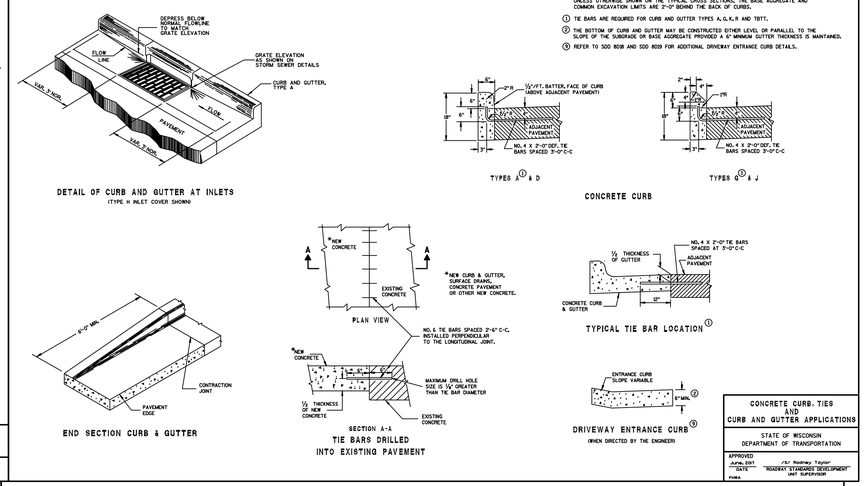
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 6" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINTS ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8D1 sheet b: Concrete Curb, Concrete Curb & Gutter and Ties



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. REFER TO SDD 8D8 AND SDD 8D9 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED June, 2017 /S/ Rodney Taylor
DATE "ROADWAY STANDARDS DEVELOPMENT" UNIT SUPERVISOR

SDD 15d12-a Traffic Control, Lane Closure

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (300 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"W12" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

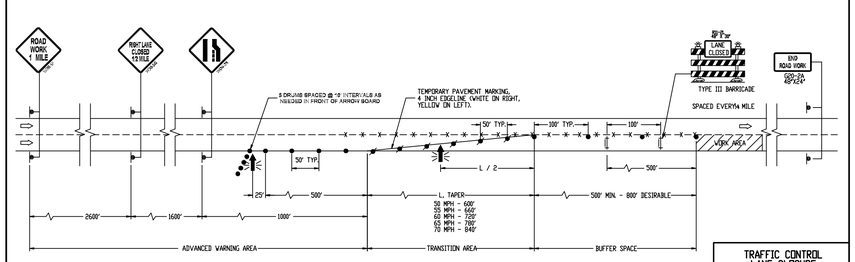
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED November 2018 /S/Andrew Heistiue
DATE WORK ZONE ENGINEER

SDD 15d12-b Traffic Control, Lane Closure, Speed Reduction

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (300 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"W12" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

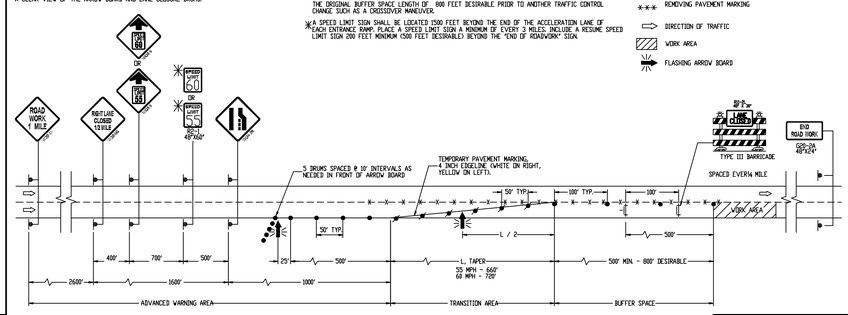
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL,
LANE CLOSURE,
SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED November 2018 /S/Andrew Heistiue
DATE WORK ZONE ENGINEER

SDD 15d12-c Traffic Control, Lane Closure, Dynamic Late Merge System 2 Lane

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- FBS — FLASHING BEACON SIGNS

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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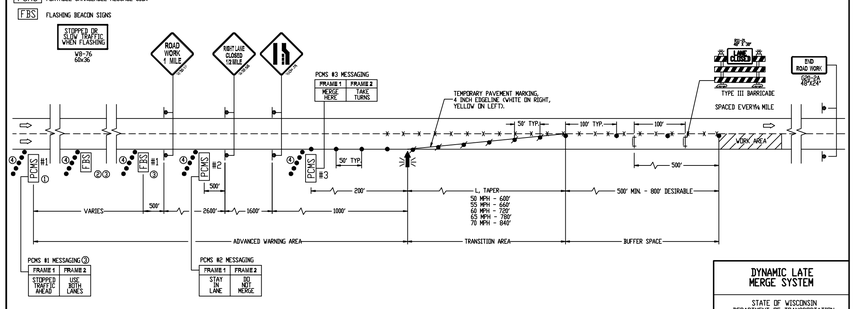
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

1. PLACE PCMS #1 ONE MILE BEYOND ESTIMATED MAXIMUM QUEUE LENGTH. PLACE FLASHING BEACON SIGNS EVERY ONE MILE BETWEEN THE WZD - IF AND PCMS #1 BEYOND ESTIMATED QUEUE.
2. PLACE FLASHING BEACON SIGNS EVERY ONE MILE BETWEEN PCMS #1 AND FBS #1.
3. FOR THREE LANE CONFIGURATION, PLACE FBS ON BOTH SIDES OF ROADWAY. CHANGE PCMS #1 FRAME 2 MESSAGE TO "USE ALL LANES".
4. 5 DRUMS SPACED @ 10' INTERVALS AS NEEDED.

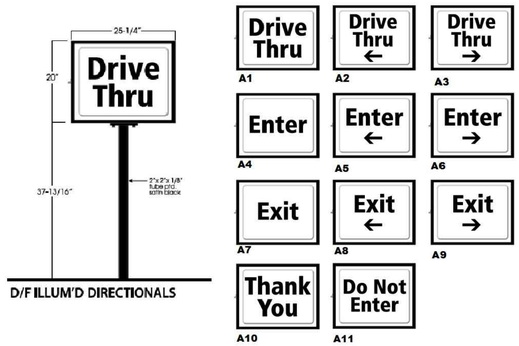


DYNAMIC LATE
MERGE SYSTEM

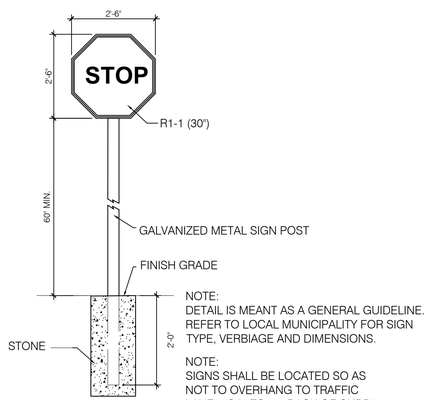
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED November 2018 /S/Andrew Heistiue
DATE WORK ZONE ENGINEER

THE RECEIVER OF ELECTRONIC DATA TRANSMISSION, BY LIKE EVIDENCE ACCEPTANCE AND ADMITS AS FOLLOWS:
THE ENGINEER MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE CADD FILES, AS ELECTRONIC CADD FILES, THE CADD FILES MAY BE TRANSMITTED TO THE RECEIVER AS A CONVENIENCE. THE RECEIVER ACCEPTS THE CADD FILES "AS IS" AND ASSUMES ALL RISK AND LIABILITY ARISING FROM THEIR USE. THE RECEIVER AGREES THAT THE ENGINEER SHALL NOT BE LIABLE FOR ANY DAMAGES, DIRECT OR INDIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF THE CADD FILES. THE RECEIVER AGREES THAT THE ENGINEER SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING FROM THE RECEIPT OF THE CADD FILES, OR ANY CHANGES MADE TO THE CADD FILES AFTER THE ENGINEER'S RELEASE OF THE CADD FILES. THE RECEIVER AGREES TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE ENGINEER, AND ANY OFFICERS, DIRECTORS, AND EMPLOYEES OF THE ENGINEER, AGAINST ANY CLAIM OR LIABILITY ARISING FROM OR CONNECTED WITH THE RECEIPT OF THE CADD FILES. THE RECEIVER AGREES THAT THE CADD FILES ARE INSTRUMENTS OF SERVICE OF THE ENGINEER, WHO RETAINS OWNERSHIP AND PROPERTY RIGHTS IN THE CADD FILES. THE RECEIVER AGREES THAT THE CADD FILES MAY BE USED ONLY FOR THE PURPOSES DETERMINED BY THE ENGINEER. THE RECEIVER AGREES THAT THE CADD FILES WERE PREPARED FOR THE ENGINEER'S PURPOSES. THE ENGINEER MAKES NO REPRESENTATION THAT THE CADD FILES ARE SUITABLE FOR ANY PURPOSE OTHER THAN THE PURPOSE FOR WHICH THE CADD FILES WERE PREPARED. THE RECEIVER AGREES THAT THE CADD FILES MAY BE USED ONLY FOR THE PURPOSE OF PREPARING A SET OF 1 INCH (DALES 23 FEET PAPER DRAWINGS). DIFFERENCES MAY EXIST BETWEEN THE CADD FILES AND THE CORRESPONDING PAPER FILES. THE RECEIVER AGREES THAT THE PAPER FILES SHALL GOVERN. THE RECEIVER FURTHER AGREES THAT THE CADD FILES DUE TO DATA CONVERSION, DATA TRANSMISSION, DIGITAL FORMATTING, AND OTHER FACTORS, THE CADD FILES MAY NOT BE EXACT OR ACCURATE. THE RECEIV



DIRECTIONAL SIGN DETAIL NTS | 4



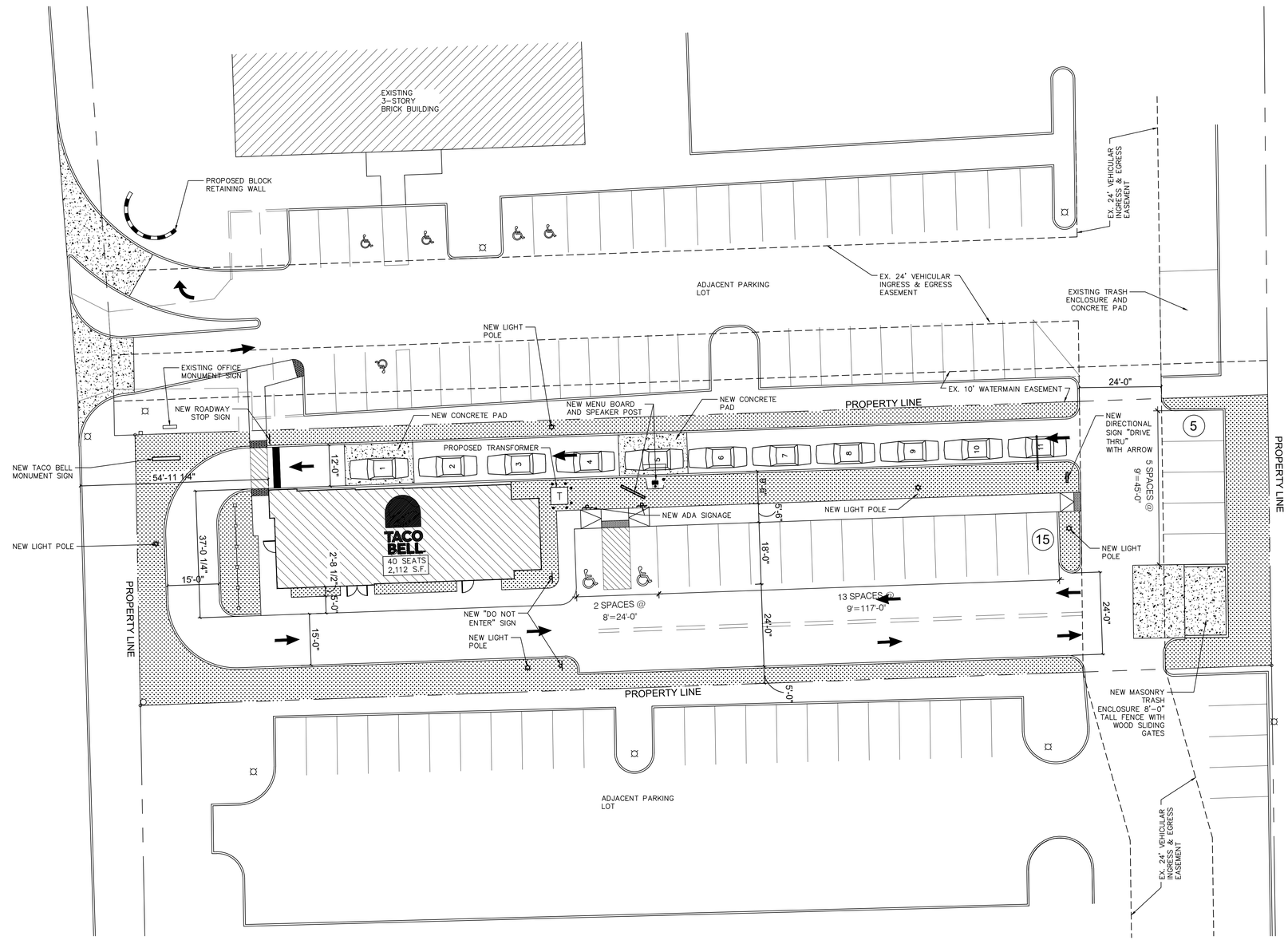
NOTE:
DETAIL IS MEANT AS A GENERAL GUIDELINE. REFER TO LOCAL MUNICIPALITY FOR SIGN TYPE, VERBIAGE AND DIMENSIONS.

NOTE:
SIGNS SHALL BE LOCATED SO AS NOT TO OVERHANG TO TRAFFIC LANE. (C.L. TO 18" BACK OF CURB)

STOP SIGN DETAIL NTS | 3

PROJECT LOCATION MAP NTS | 2

N. GRANDVIEW BLVD.



TACO BELL
ASPHALT PARKING
20 STALLS:
2 - ADA COMPLIANT
18 - STANDARD

SITE PLAN 1" = 250'-0" | 1

MRV
ARCHITECTS, INC.
5108 TOLLVIEW DR.,
ROLLING MEADOWS, IL 60008
TEL: 224-318-2140 FAX: 224-735-3514

MRV ARCHITECTS, INC. 2017

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TACO BELL
EXPLORER
MEDIUM - 40

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

TACO BELL

2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

PROPOSED SITE PLAN

SP1.0

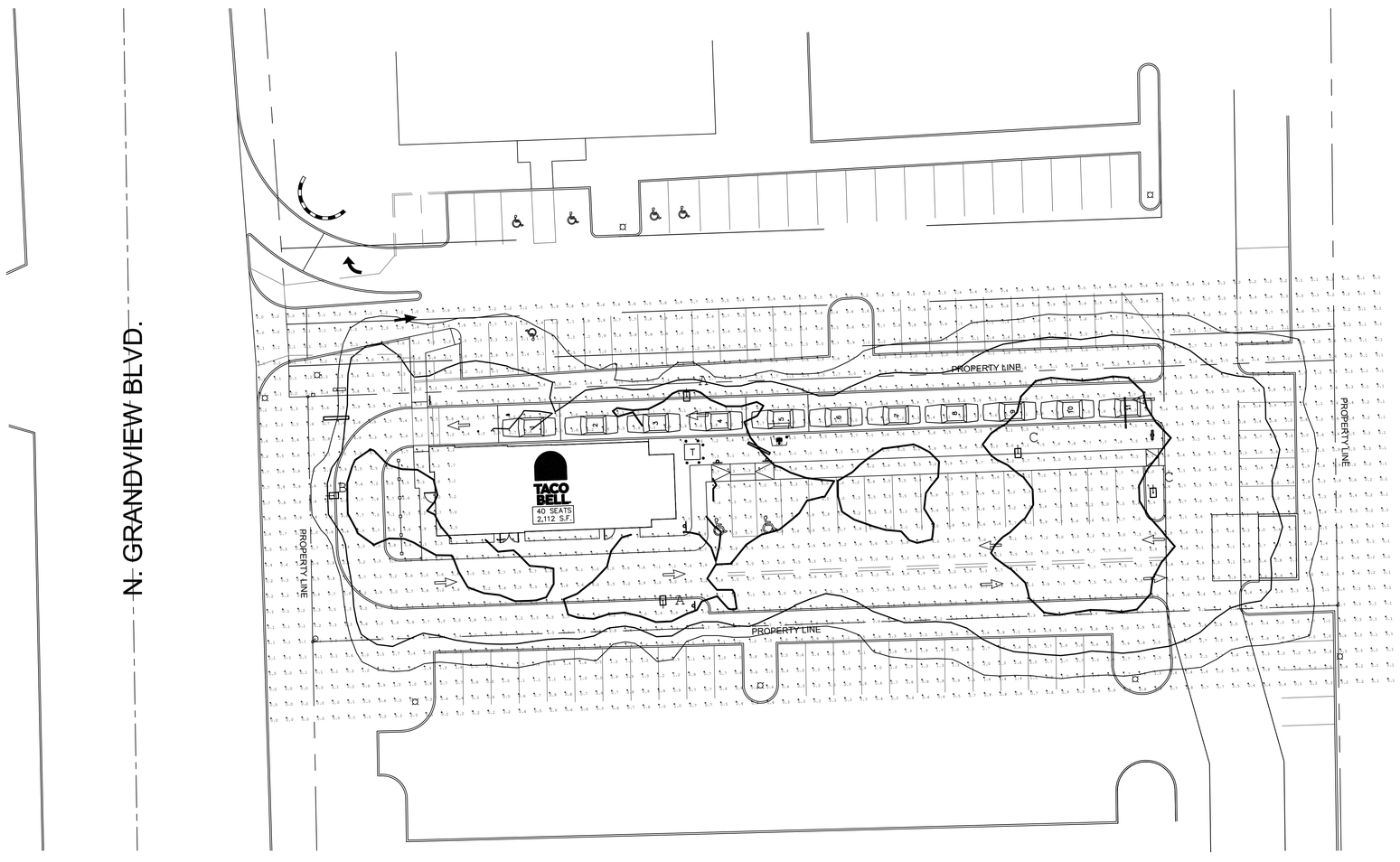
PLOT DATE:

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
EXTENDED	3.20	9.1	0.0	N.A.	N.A.
PARKING LOT & DRIVE-THRU SURFACE	5.46	9.1	2.3	2.37	3.96

LIGHT LEVELS ARE MAINTAINED FOOT-CANDLES, INITIAL LEVELS ARE SLIGHTLY HIGHER

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Lum. Watts	Description
	2	A	SINGLE	40845	0.900	395	VPL-96L-395-4K7-3-UNV-A-DBT / SES-25-40-01-A-B3-DB
	1	B	SINGLE	39921	0.900	395	VPL-96L-395-4K7-4-UNV-A-DBT / SES-25-40-01-A-B3-DB
	2	C	SINGLE	40848	0.900	395	VPL-96L-395-4K7-5QM-UNV-A-DBT / SES-25-40-01-A-B3-DB

FIXTURES ARE 395W 4000K LED
POLES ARE 25'-0" FOR AN OVERALL FIXTURE HEIGHT OF 27'-6" A.F.G.



PHOTOMETRIC PLAN 1" = 250'-0" | 1

MRV
ARCHITECTS, INC.
5108 TOLLVIEW DR.,
ROLLING MEADOWS, IL 60008
TEL: 224-318-2140 FAX: 224-735-3514

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C:\Users\Mark\Documents\MRV_Architects\Blue_5_Interior-Model.jpg

TACO BELL
EXPLORER
MEDIUM - 40

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

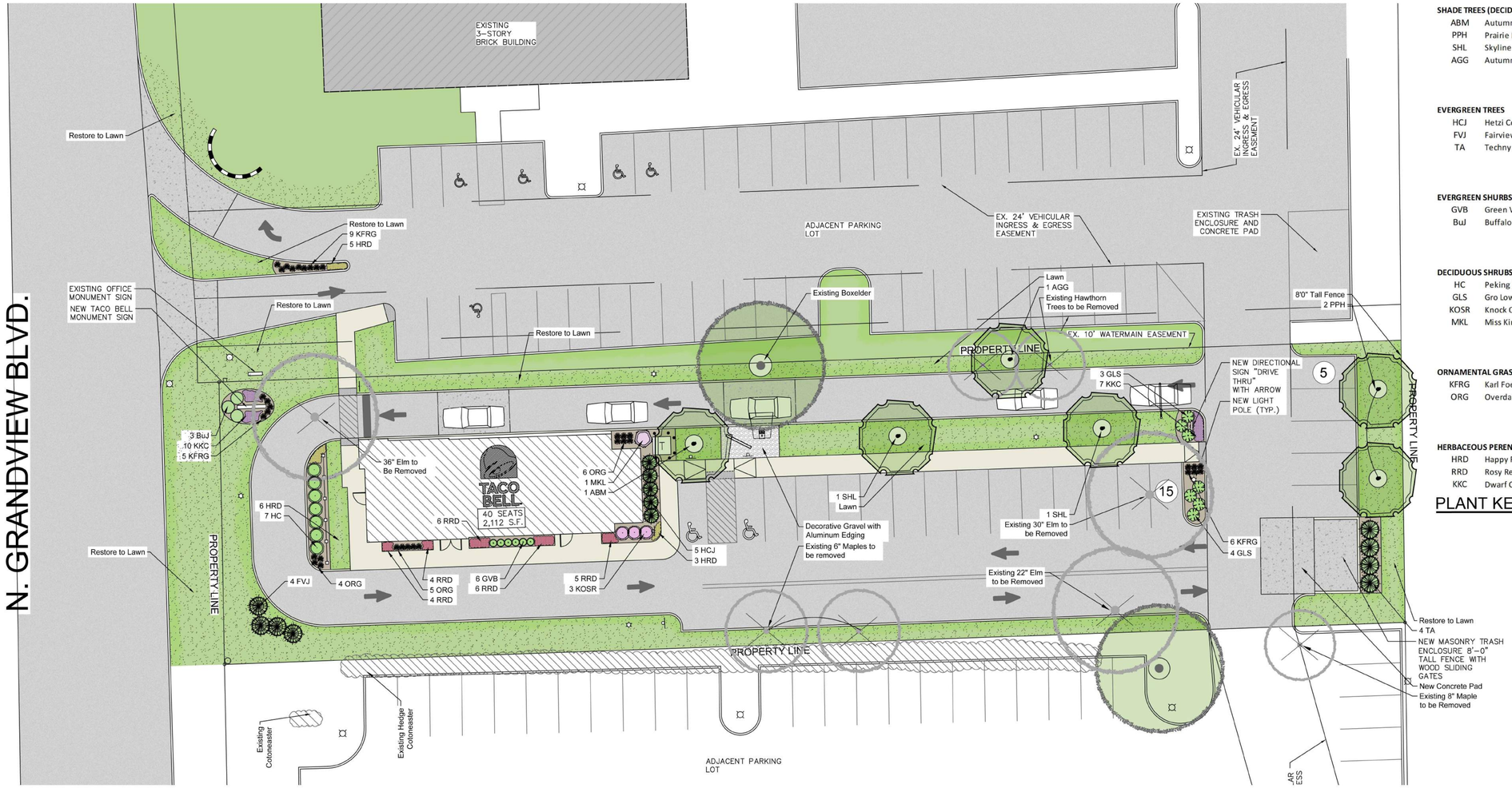
TACO BELL

2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

PHOTOMETRIC SITE PLAN

SP2.1

PLOT DATE:



SHADE TREES (DECIDUOUS)

ABM	Autumn Blaze Maple
PPH	Prairie Pride Hackberry
SHL	Skyline Honeylocust
AGG	Autumn Gold Maidenhair

EVERGREEN TREES

HCJ	Hetzi Columnar Juniper (upright)
FVJ	Fairview Upright Juniper (upright)
TA	Techny Arborvitae

EVERGREEN SHURBS

GVB	Green Velvet Boxwood
BuJ	Buffalo Juniper

DECIDUOUS SHRUBS

HC	Peking (Hedge) Cotoneaster
GLS	Gro Low Fragrant Sumac
KOSR	Knock Out Shrub Rose
MKL	Miss Kim Dwarf Lilac

ORNAMENTAL GRASSES

KFRG	Karl Foerster Feather Reed Grass
ORG	Overdam Feather Reed Grass

HERBACEOUS PERENNIALS

HRD	Happy Returns Daylilly
RRD	Rosy Returns Daylilly
KKC	Dwarf Catmint

PLANT KEY

MRV ARCHITECTS, INC.
409 N. WILLE ST., MT. PROSPECT, IL 60056
TEL: 847-373-5005 FAX: 224-735-3514

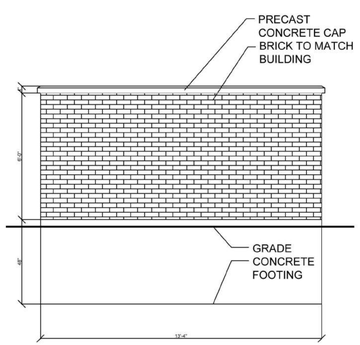
HELLER & ASSOCIATES, LLC
LANDSCAPE ARCHITECTURE
P.O. Box 1359
Lake Geneva, Wisconsin 53147
ph 262.639.9733
david@wdavidheiler.com

TACO BELL™

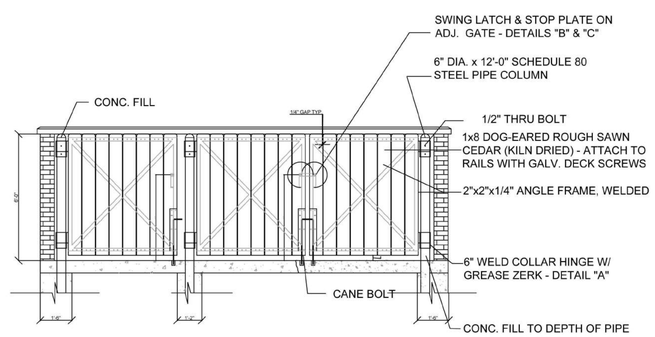
NORTH

OVERALL LANDSCAPE PLAN

Scale: 1" = 16'-0"



NORTH / SOUTH ELEVATIONS



WEST ELEVATION

MASONRY TRASH ENCLOSURE

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOTLINE

CALL DIGGERS HOTLINE
811 or 1-800-242-8511
MILW. AREA 259-1181
WIS STATUTE 182.0175(1974)
REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	MARCH, 2017
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XXXXX

TACO BELL

2707 N. GRANDVIEW BLVD,
WAUKESHA, WISCONSIN

SHEET TITLE

OVERALL LANDSCAPE PLAN

L 1.0

TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

DIGGERS HOTLINE

CALL DIGGERS HOTLINE
811 or 1-800-242-8511
MUK AREA 259-1181
WIS STATUTE 182.0175(1974)
REQUIRES MIN. 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

1. Contractor responsible for contacting Diggers Hotline (811 or 800-242-8511) to have site marked prior to excavation or planting.

2. Contractor to verify all plant quantities shown on Plant & Material List and landscape planting symbols and report any discrepancies to Landscape Architect or General Contractor.

3. All plantings shall comply with standards as described in American Standard of Nursery Stock - Z60.1 ANSI (latest version). Landscape Architect reserves the right to inspect, and potentially reject any plants that are inferior, compromised, undersized, diseased, improperly transported, installed incorrectly or damaged. No sub-standard "B Grade" or "Park Grade" plant material shall be accepted. Plant material shall originate from nursery(ies) with a similar climate as the planting site.

4. Any potential plant substitutions must be approved by Landscape Architect or Owner. All plants must be installed as per sizes indicated on Plant & Material Schedule, unless approved by Landscape Architect. Any changes to sizes shown on plan must be submitted in writing to the Landscape Architect prior to installation.

5. Topsoil in Parking Lot Islands (if applicable): All parking lot islands to be backfilled with topsoil to a minimum depth of 18" to insure long-term plant health. Topsoil should be placed within 3" of finish grade by General Contractor / Excavation Contractor during rough grading operations/activity. The landscape contractor shall be responsible for the fine grading of all disturbed areas, planting bed areas, and lawn areas. Crown all parking lot islands a minimum of 6" to provide proper drainage, unless otherwise specified.

6. Tree Planting: Plant all trees slightly higher than finished grade at the root flare. Remove excess soil from the top of the root ball, if needed. Remove and discard non-biodegradable ball wrapping and support wire. Removed biodegradable burlap and wire cage (if present) from the top $\frac{1}{3}$ of the rootball and carefully bend remaining wire down to the bottom of the hole. Once the tree has been placed into the hole and will no longer be moved, score the remaining $\frac{2}{3}$ of the burlap and remove the twine. Provide one slow release fertilizer packets (per 1" caliper) for each tree planted.

7. Tree Planting: Backfill tree planting holes 80% existing soils removed from excavation and 20% Soil Amendments (see Note 11). Avoid air pockets and do not tamp soil down. Discard any gravel, rocks, heavy clay, or concrete pieces. When hole is $\frac{2}{3}$ full, trees shall be watered thoroughly, and water left to soak in before proceeding to fill the remainder of the hole. Water again to full soak in the new planting. Each tree shall receive a 3" deep, 4-5' diameter (see planting details or planting plan) shredded hardwood bark mulch ring / saucer around all trees. Do not build up any mulch onto the trunk of any tree. Trees that are installed incorrectly will be replaced at the time and expense of the Landscape Contractor.

8. Shrub Planting: All shrubs to be planted in groupings as indicated on the Landscape Plan. Install with the planting of shrubs a $^{50}/_{50}$ mix of Soil Amendments with blended, pulverized topsoil. Install topsoil into all plant beds as needed to achieve proper grade and displace undesirable soils (see planting detail). Remove all excessive gravel, clay and stones from plant beds prior to planting. When hole(s) are $\frac{2}{3}$ full, shrubs shall be watered thoroughly, and water left to soak in before proceeding. Provide slow-release fertilizer packets at the rater of 1 per 24" height/diamter of shrub at planting.

9. Mulching: All tree rings to receive a 3" deep layer of high quality shredded hardwood bark mulch (not pigment dyed or enviro-mulch). All shrub planting and perennial planting bed areas (groupings) shall receive a 2-3" layer of shredded hardwood bark mulch, and groundcover areas a 1-2" layer of the same mulch. Do not mulch annual flower beds (if applicable). Do not allow mulch to contact plant stems and tree trunks.

10. Edging: All planting beds shall be edged with a 4" deep spade edge using a flat landscape spade or a mechanical edger. Bedlines are to be cut crisp, smooth as per plan. A clean definition between landscape beds and lawn is required. Pack mulch against lawn edge to hold in place.

11. Plant bed preparation/Soil Amendment composition: All perennial, groundcover and annual areas (if applicable) are required to receive a blend of organic soil (Soil Amendments) amendments prior to installation. Roto-till the following materials at the following ratio, into existing soil beds or installed topsoil beds to a depth of approximately 8"-10". Containerized and balled & burlapped plant material should be back-filled with amended soil:

Per 100 SF of bed area (Soil Amendment composition):
¾ CY Peat Moss or Mushroom Compost
¾ CY blended/pulverized Topsoil
¼ CY composted manure

In roto-tilled beds only, also include in above mixture:
2 lbs Starter Fertilizer

12. Installation preparation for all seeded areas: remove/kill off any existing unwanted vegetation prior to seeding. Prepare the topsoil (if adequate or provide as in item #6 above) and seed bed by removing all surface stones 1" or larger. Apply a starter fertilizer (20-10-5, or approved comparable) and specified seed uniformly at the specified rate, and provide mulch covering suitable to germinate and establish turf. Provide seed and fertilizer specifications to Landscape Architect and Owner prior to installation. Erosion control measures are to be used in swales and on slopes in excess of 1:3 and where applicable (see Civil Engineering Drawings). Methods of installation may vary are the discretion of the Landscape Contractor on his/her responsibility to establish and guarantee a smooth, uniform, quality turf. A minimum of 2" of blended, prepared and non-compacted topsoil is required for all lawn areas. If straw mulch is used as a mulch covering, a tackifier may be necessary to avoid wind dispersal of mulch covering. Marsh hay containing reed canary grass is NOT acceptable as a mulch covering.

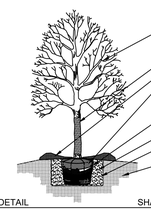
An acceptable quality seed installation is defined as having:
No bare spots larger than one (1) square foot
No more than 10% of the total area with bare areas larger than one (1) square foot
A uniform coverage through all turf areas

13. Warranty and Replacements: All plantings are to be watered thoroughly at the time of planting, through construction and upon completion of project as required. Trees, Evergreens, and Shrubs (deciduous and evergreen) shall be guaranteed (100% replacement) for a minimum of one (1) year from the date of project completion. Perennials, groundcovers, and ornamental grasses shall be guaranteed for a minimum of one (1) growing season. Perennials, groundcovers, and ornamental grasses planted after September 15th shall be guaranteed through May 31st of the following year. Only one replacement per plant will be required during the warranty period, except for losses or replacements due to failure to comply with specified requirements. Watering and general ongoing maintenance instructions are to be supplied by the Landscape Contractor to the Owner upon completion of the project.

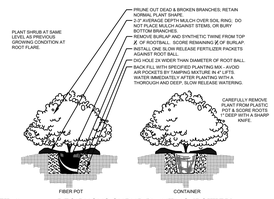
14. The Landscape Contractor is responsible for the watering and maintenance of all landscape areas for a period of 45 days after the substantial completion of the landscape installation. This shall include all trees, shrubs, evergreens, perennials, ornamental grasses, turf grass, no-mow grass, and native prairie seed mix / stormwater seed mix. Work also includes weeding, edging, mulching (only if required), fertilizing, trimming, sweeping up grass clippings, pruning and deadheading.

15. Project Completion: Landscape Contractor is responsible to conduct a final review of the project, upon completion, with the Landscape Architect, Client or Owner / Client Representative, and the General Contractor to answer questions, provide written care instructions for new plantings and turf, and insure that all specifications have been met.

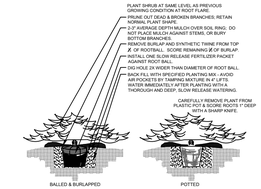
LANDSCAPE GENERAL NOTES



1 DETAIL SHADE TREE PLANTING
N.T.S. SECTION



2 DETAIL DECIDUOUS SHRUB PLANTING (POTTED)
N.T.S. SECTION



3 DETAIL EVERGREEN SHRUB PLANTING
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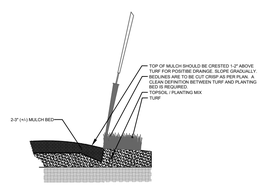
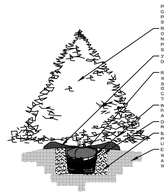
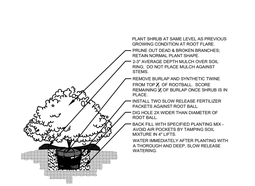


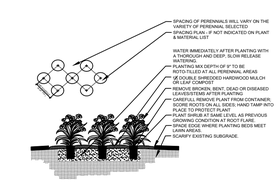
4 DETAIL SPADE EDGE PLANT BED EDGE DETAIL
N.T.S. SECTION



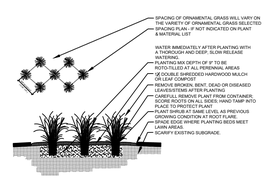
5 DETAIL EVERGREEN TREE PLANTING
N.T.S. SECTION



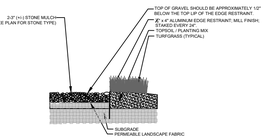
6 DETAIL DECIDUOUS SHRUB PLANTING (B&B)
N.T.S. SECTION



7 DETAIL GROUNDCOVER / PERENNIAL PLANTING
N.T.S. SECTION



8 DETAIL ORNAMENTAL GRASS PLANTING
N.T.S. SECTION



9 DETAIL STONE MULCH / EDGE DETAIL
N.T.S. SECTION

PLANTING & HARDSCAPE DETAILS

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	CALIPER SIZE	ROOT	SPECIFICATION / NOTES	PLANT SPACING

Proposed Landscape Construction Preparation

1 Remove 36" Elm tree at the north end of lot
2 Remove 6" Maple trees along the west lot line
1 Remove 22" Elm tree at the south end of lot
1 Remove 30" Elm tree at the south end of lot
2 Remove Hawthorn trees along the east lot line
1 Remove 8" Maple tree near southwest corner

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	CALIPER/HEIGHT SIZE	ROOT	SPECIFICATION / NOTES	PLANT SPACING
Proposed Landscape Materials							
SHADE TREES (DECIDUOUS)							
ABM	1	Acer xfreemanii 'Autumn Blaze'	Autumn Blaze Maple	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting	
PPH	2	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting	
SHL	2	Gleditsia triacanthos 'Skyline'	Skyline Honeylocust	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting	
AGG	1	Ginkgo biloba 'Autumn Gold'	Autumn Gold Maidenhair	2.5"	B&B	Straight central leader, full and even crown. Prune only after planting	

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	HEIGHT SIZE	ROOT	SPECIFICATION / NOTES	PLANT SPACING
EVERGREEN TREES							
HCI	5	Juniperus chinensis 'Hetzii Columnaris'	Hetzi Columnar Juniper (upright)	5-6'	B&B	Evenly shaped tree with branching to the ground	42"
FVJ	4	Juniperus scopulorum 'Fairview'	Fairview Upright Juniper (upright)	5-6'	B&B	Evenly shaped tree with branching to the ground	60"
TA	4	Thuja occidentalis 'Techny'	Techny Arborvitae	60"	B&B	Evenly shaped tree with branching to the ground	60"

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	SHRUB SIZE (HEIGHT)	ROOT/ CONT.	SPECIFICATION / NOTES	PLANT SPACING
EVERGREEN SHURBS							
GVB	6	Buxus 'Green Velvet'	Green Velvet Boxwood	15" HT	Cont.	Full rounded well branched shrub	24-30"
BuJ	3	Juniperus sabina 'Buffalo'	Buffalo Juniper	#3	Cont.	Full rounded well branched shrub	42"

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	SHRUB SIZE (HEIGHT)	ROOT/ CONT.	SPECIFICATION / NOTES	PLANT SPACING
DECIDUOUS SHRUBS							
HC	7	Cotoneaster acutifolia	Peking (Hedge) Cotoneaster	42"	B&B	Full, well rounded plant with moist rootball and healthy appearance	30-42"
GLS	7	Rhus aromatica 'Gro-Low'	Gro Low Fragrant Sumac	#5	Cont.	Full, well rooted plant, evenly shaped	42"
KOSR	3	Rosa 'Knock Out'	Knock Out Shrub Rose	18"	Cont.	Full, well rooted plant, evenly shaped	48"
MKL	1	Syringa patula 'Miss Kim'	Miss Kim Dwarf Lilac	24"	Cont.	Full, well rooted plant, evenly shaped	60"

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	CONTAINER SIZE		SPECIFICATION / NOTES	PLANT SPACING
ORNAMENTAL GRASSES							
KFRG	20	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1	Cont.	Full, well rooted plant	15-18"
ORG	15	Calamagrostis acutiflora 'Overdam'	Overdam Feather Reed Grass	#1	Cont.	Full, well rooted plant	15"

PLANT KEY	QUANTITY	PLANT MATERIAL PROPOSED BOTANICAL NAME	COMMON NAME	CONTAINER SIZE		SPECIFICATION / NOTES	PLANT SPACING
HERBACEOUS PERENNIALS							
HRD	14	Hemerocallis 'Happy Returns'	Happy Returns Daylilly	#1	Cont.	Full, well rooted plant, evenly shaped	18"
RRD	25	Hemerocallis 'Rosy Returns'	Rosy Returns Daylilly	#1	Cont.	Full, well rooted plant, evenly shaped	18"
KKC	17	Nepeta faassenii 'Kit Cat'	Dwarf Catmint	#1	Pot	Full, well rooted plant, evenly shaped	24"
LAWN	990	Lawn Establishment Area / Grading Area			SY	Cedar Creek Premium Blue Tag Seed Mix (Ph: 888-313-6807)	
	8900	Erosion Matting for sloped seeded areas	*see plan for area delineation*		SF	EroTex DS75 Erosion Control Blanket (or approved equal)	

Hardscape Materials

3.5	Heritage River Gravel Mulch (1.0-1.5" pieces)	*Area: 140 SF*	TN	*2" depth*
140	Landscape Fabric		SF	
20	Aluminum Edge Restraint (bedline areas)	Permaloc ProSlide 3/16"x5.5" Black Duraflex Finish	LF	In all locations between landscape bed areas and turf areas (not including tree rings)
15.5	Shredded Hardwood Mulch (3" depth)	*1,550 SF*	CY	Bark Mulch; apply Preemergent after installation of mulch
10.5	Soil Amendments (2" depth)	*1,550 SF*	CY	
28	Pulverized Topsoil (Lawn Area)	*8,900 SF*	CY	
10.5	Pulverized Topsoil (2" over bed areas)	*1,550 SF*	CY	

*Landscape counts & quantities are provided as a service to the Landscape Contractor; Landscape Contractor is responsible for verifying these counts and quantities in order to provide a complete landscape installation as outlined on this Landscape Master Plan. In the event that a discrepancy occurs between this schedule and the Landscape Master Plan, the Landscape Master Plan- including the graphics and notations depicted therein- shall govern.

Seed Compositions:

Reinder's Deluxe 50 Seed Mix (800-785-3301): — Seed at rate of 150-200# per acre

20% Kentucky Bluegrass (Sod Quality)
15% Newport Kentucky Bluegrass
15% Ken Blue Kentucky Bluegrass
25% Creeping Red Fescue
15% Quebec Perennial Ryegrass
10% Fiesta III Perennial Ryegrass

PLANT & MATERIAL LIST

MRV ARCHITECTS, INC.
409 N. WILLE ST., MT. PROSPECT, IL 60056
TEL: 847-373-5005 FAX: 224-735-3514

HELLER & ASSOCIATES, LLC
LANDSCAPE ARCHITECTURE
P.O. Box 1359
Lake Geneva, Wisconsin 53147
ph 262 639 9733
david@wdavidheller.com

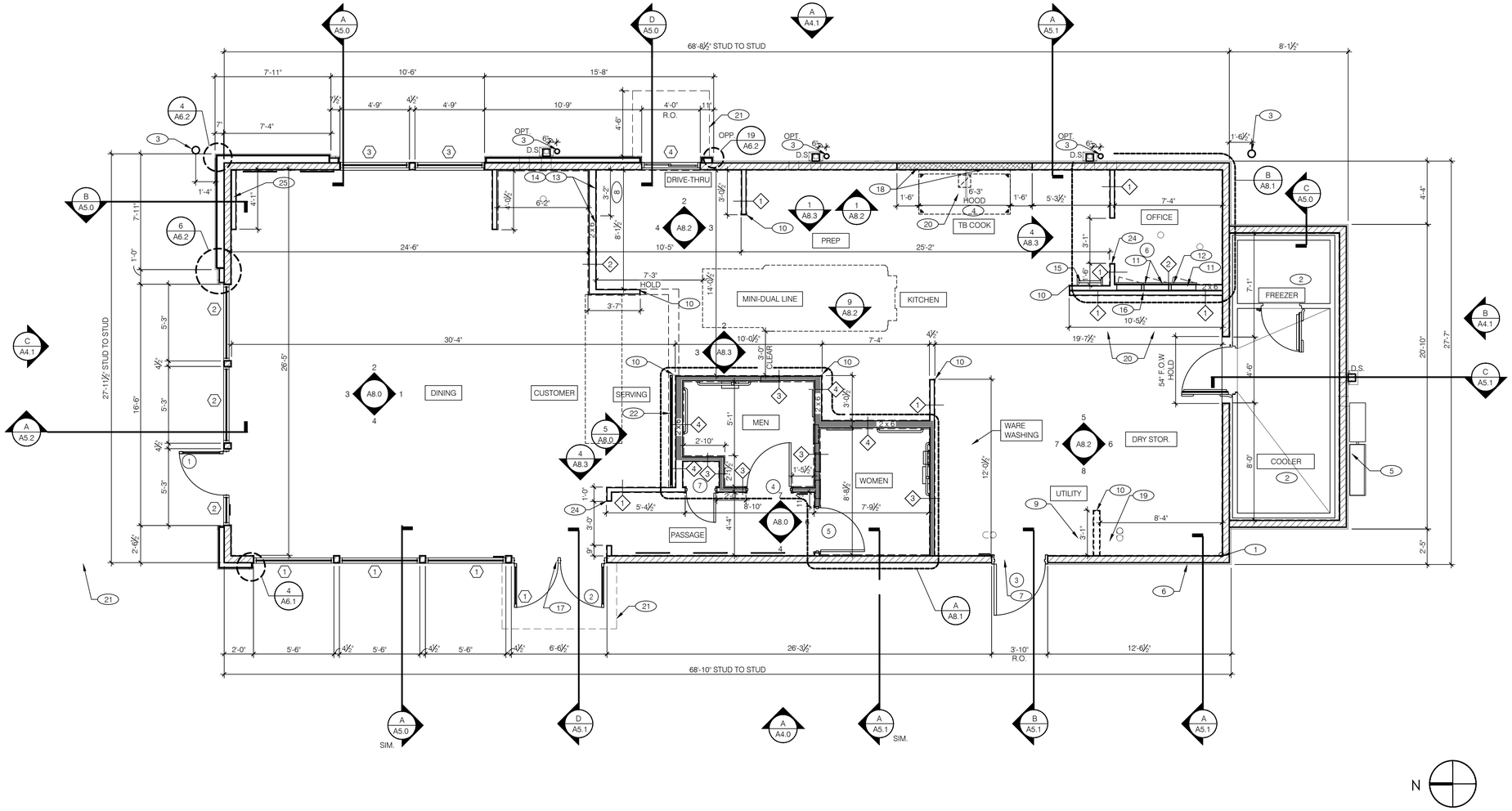
TACO BELL™

CONTRACT DATE: 03.19.18
BUILDING TYPE: EXPLORER MED40
PLAN VERSION: MARCH, 2017
SITE NUMBER: XXX-XXX
STORE NUMBER: XXXXX

TACO BELL
2707 N. GRANDVIEW BLVD,
WAUKESHA, WISCONSIN

SHEET TITLE
LANDSCAPE DETAILS, NOTES & SCHEDULES

L 1.1



N

FLOOR PLAN 1/4"=1'-0" **A**

TYPICAL EXTERIOR WALL:
2x6 WD STUDS AT 16" O.C. W/ SHEATHING AS SCHEDULED (SEE STRUCT. DWGS.) AND R-19 KRAFT-FACED FIBERGLASS BATT INSULATION U.O.N. GC SHALL PROVIDE 2 LAYERS OF GRADE 'D' 60 lb BUILDING PAPER.

TYPICAL INTERIOR WALL :
WD STUDS AT 16" O.C. AS INDICATED

1 2X4 WOOD STUDS

2 2X6 WOOD STUDS

INTERIOR SOUND-RATED WALL:
TYPICAL INTERIOR WALL W/ 3-1/2" UNFACED FIBERGLASS BATT INSULATION.

3 2X4 WOOD STUDS

4 2X6 WOOD STUDS

HOODWALL:
EXTERIOR WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. REFER TO DETAIL 2/M3.0 FOR EXTENT OF S.S. PANEL.

DASHED LINE INDICATES INTERIOR SUBSTRATE LOCATION.

WALL SUBSTRATES:
- DINING ROOM:
1/2" GYPSUM WALLBOARD FROM FLOOR SLAB TO 6" ABOVE CEILING HEIGHT U.O.N. SEE 6, 8 & 16 / A6.3. (NOTE: THE CEMENT BOARD SPECIFICATION IS DESIGNED TO ALLOW THE G.C. FLEXIBLITY.)
- KITCHEN WALLS AND DINING ROOM CLOSET:
1/2" CEMENT WALLBOARD FROM T.O. SLAB TO 12" AFF. AT 12" AFF, USE 1/2" CDX PLYWOOD W/FRP SURFACE FINISH TO 6" ABOVE CEILING HEIGHT U.O.N. IF DOUBLE SIDED SHEAR WALL PLYWD IS SPECIFIED THE PLYWOOD SHALL SHALL BE CONTINUOUS FROM SILL PLATE TO TOP PLATE. SEE 4, 11 & 20 / A6.3.
- RESTROOM WALLS:
5/8" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F. WITH 5/8" HI-IMPACT BRAND XP WALLBOARD, TYPE X CORE FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N.. NO SUBSTITUTIONS ALLOWED. FINISH AS SCHEDULED. SEE 11 (SIM), 12 /A6.3.
- ALL OTHER FRAME WALL CONDITIONS:
1/2" CEMENT WALLBOARD FROM T.O. SLAB OR T.O. CONCRETE CURB TO 48" A.F.F., WITH 1/2" GYPSUM WALLBOARD FROM T.O. CEMENT BOARD TO 6" ABOVE CEILING HEIGHT U.O.N. FINISH AS SCHEDULED.

WALL LEGEND **E**

DIMENSIONS:
A. ALL DIMENSIONS ARE TO FACE OF STUD U.O.N. REFER TO FOUNDATION PLAN FOR FACE OF CONC. DIMENSIONS
B. DIMENSIONS NOTED AS 'CLEAR' OR 'HOLD' ARE MIN. REQ'D. NET CLEARANCE FROM FACE OF WALL / WAINSCOT FINISH. VERIFY FINAL EQUIPMENT SIZES W/ VENDOR PRIOR TO INT. WALL FRAMING.

WINDOWS / DOORS:
A. SEE SHT. A1.1 FOR WINDOW TYPES AND DOOR SCHEDULE.
B. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO ROUGH OPENING.

FINISH SUBSTRATES:
A. PROVIDE 1/2" THICK CEMENTITIOUS BD. FROM FLOOR SLAB TO 12" A.F.F. MIN. IN LIEU OF GYP. BD. AT ALL WALLS EXCEPT SHEARWALL SURFACES, U.O.N.
B. ALL JOINTS, GAPS OR SPACES LEADING TO ALL HOLLOW OR INACCESSIBLE SPACES SHALL BE SEALED WITH "NSF INTERNATIONAL" APPROVED SEALANTS.
C. ALL BACK OF HOUSE AND OFFICE WALLS SHALL HAVE 1/2" CDX PLYWOOD SUBSTRATE, U.O.N.

DECOR:
A. SEE A2.0 FOR SEATING PLAN AND DETAILS.
B. SEE A7.0 FOR FLOOR FINISHES.
C. SEE A8.0 - A8.3 FOR WALL FINISHES.
D. SEE A7.1 FOR CEILING FINISHES.

GENERAL:
A. PROVIDE THREE FIRE EXTINGUISHERS - (2) 10 lb. BC and (1) 10 lb. ABC - TO COMPLY WITH LOCAL FIRE CODE. LOCATE PER DIRECTION OF FIRE MARSHALL OR LOCAL AUTHORIZING AGENT.
B. DRAWINGS ARE BASED UPON WOOD FRAMING. UTILIZATION OF METAL STUDS ON NON-BEARING INTERIOR PARTITIONS, BULKHEADS AND SOFFITS IS ACCEPTABLE.
C. ALL ATTACHMENTS MADE THROUGH E.I.F.S. SHALL BE BUSHED TO PREVENT DAMAGE TO THE FINISH, PER 9/A6.2.
D. ALL PENETRATIONS THROUGH E.I.F.S. SHALL BE SEALED USING MFR'S. APPROVED METHOD.

FLOOR PLAN NOTES **D**

1. STARTING POINT. ALL SUB-TRADES SHALL USE THIS POINT AS A BEGINNING LAY-OUT (INSIDE FACE OF EXT. WALL STUDS.
2. NO FRP BEHIND W-059 WALK-IN COOLER/FREEZER.
3. PIPE BOLLARD. SEE DETAIL 8/C1.0.
4. HOOD WALL, SEE WALL LEGEND.
5. ELECTRICAL MAIN SWITCH BOARD. REFER TO ELECT. DWGS.
6. CO2 FILL BOX LOCATION.
7. TILE TO METAL THRESHOLD.
8. KEEP CLEAR FOR UTILITIES & SYRUP LINES. SEE DETAIL 14 & 19/A6.4 FOR STUD LAYOUT REQUIREMENTS.
9. MOP SINK. REFER TO SHEET A2.0 & A2.1.
10. S.S. CORNER GUARD / WALL CAP [TM-2], TYP. ALL CORNERS IN BACK-OF-HOUSE FROM REAR WALL TO THE KITCHEN SIDE OF THE SERVICE COUNTER. SEE DETAIL 19/A6.3.
11. ELECT. PANELS RECESSED IN 2x6 WALL.
12. LIGHTING CONTROL PANEL RECESSED. REFER TO ELECT. DWGS.
13. SYRUP LINE CHASE (ABOVE). SEE DETAIL 19/A6.4.
14. 14"x14" HORIZONTAL OPENING FOR SYRUP TUBES. COORDINATE WALL PENETRATION WITH COUNTER INSTALLER. SEAL CHASE TO COUNTER. SEE 11/A6.4.
15. ROOF LADDER SEE 4/A6.0
16. ADD SECOND 2X4 WALL ON KITCHEN SIDE.
17. REMOVABLE ASTRAGAL FROM INSIDE ONLY.
18. METAL STUDS REQUIRED PER LOCAL CODES.
19. INDICATES WATER HEATER LOCATION.
20. SPLASH GUARD. SEE DETAIL 9/A6.3.
21. LINE OF CANOPY ABOVE
22. LIGHTED WALL. REFER TO DETAIL 5/A8.0
23. NOT USED.
24. CASED OPENING, REFER TO DETAIL 7/A6.4.
25. FUR OUT WALL AS INDICATED WTH 2X4 WOOD STUDS AT 16" O.C.

KEY NOTES **B**

MRV
ARCHITECTS, INC.
5105 TOLLVIEW DR.,
ROLLING MEADOWS, IL 60008
TEL: 224-318-2140 FAX: 224-735-3514

MRV ARCHITECTS, INC. 2017

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TACO BELL
EXPLORER
MEDIUM - 40

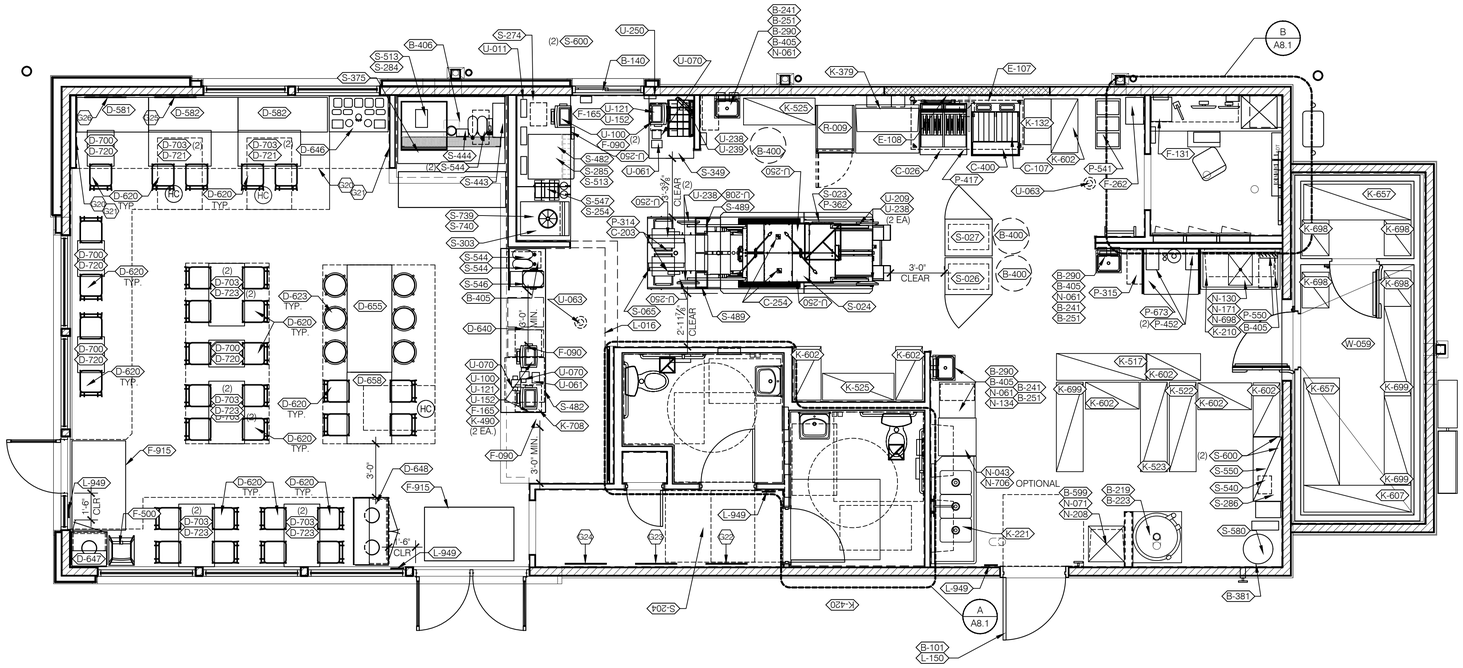
CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

TACO BELL
2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

FLOOR PLAN

A1.0

PLOT DATE:



EQUIPMENT/SEATING PLAN 1/4"=1'-0" A

SYM.	QTY.	ITEM
D-581	1	PINE PLANK SETTEE BOOTHS - 48"
D-582	2	PINE PLANK SETTEE BOOTHS - 60"
D-620	31	RETRO CHAIR - 18"
D-623	6	BARREL BARSTOOL - 29"
D-640	1	SERVICE COUNTER & POS STATION
D-646	1	CONDIMENT COUNTER - RECTANGLE
D-647	1	WASTE ENCLOSURE - SINGLE
D-648	1	WASTE ENCLOSURE - DOUBLE
D-655	1	WB HUB TABLE - 72"
D-658	1	WB HUB TABLE ADA - 48"
D-700	4	22" X 22" X 28.5"H FREE STANDING TABLE BASE
D-703	12	22" X 5.5" X 28.5"H FREE STANDING TABLE BASE
D-720	4	24" X 19" TABLE TOP - PLYWOOD

SYM.	QTY.	
D-721	2	24" X 42" ADA TABLE TOP - PLYWOOD
D-723	4	24" X 42" TABLE TOP - PLYWOOD
D-750	TBD *	WINDOW SILL
D-753	TBD *	WAINSCOTING
D-755	TBD *	CHAIRRAIL
* CONSULTANT TO PROVIDE LINEAR FOOTAGE FOR SILLS, CHAIR RAILS AND SHROUDS.		

SEATING PACKAGE - BY SEATING VENDOR U.O.N. (TOTAL SEATS = 43 INT) E

X	QTY.	ITEM	REMARKS
A26	2 1	SAUCE PACKET COMPILATION - ALCOVE ARTWORK 9'-5" X 4'-2" 17'-5" x 4'-2"	SEE A7.1 AND A8.0 FOR LOCATION
A32		HOT SAUCE POP ART	OPT. ALCOVE ARTWORK
A22	1	EMOJIIS, 28"X40"	SEE A8.0 FOR LOCATION
A23	1	LINEAR SAUCES, 28"X40"	SEE A8.0 FOR LOCATION
A24	1	CONCRETE, 28"X40"	SEE A8.0 FOR LOCATION
A25	1	MASH UP 1, 28"X40"	SEE A8.0 FOR LOCATION
A28	1	MASH UP 2, 28"X40"	SEE A8.0 FOR LOCATION

ARTWORK SCHEDULE D

DECOR
1. REFER TO SC SHEETS FOR SCOPE OF WORK RESPONSIBILITIES.
2. (H) - SYMBOL DENOTES A HIGH TABLE OR DINING COUNTER WITH STOOLS.
3. (HC) - SYMBOL DENOTES A HANDICAP ACCESSIBLE TABLE.

GENERAL NOTES C1

STORAGE TYPE	LINEAR FT.
DRY STORAGE	53
COLD STORAGE	25
FROZEN STORAGE	10

SHELVING QUANTITIES REQUIRED C2

1. HOOD FIRE SUPPRESSION SYSTEM (ANSUL R-102 OR EQUAL).
2. SEE SHEET A1.1 FOR SECURITY DOOR PACKAGE.
3. MAINTAIN 36" MIN CLEAR AISLE EGRESS PATHS TO EXIT DOORS.
4. 30" x 48" CLEAR FLOOR SPACE FOR HANDICAP ACCESS.
5. ALERT LIGHT BOX FOR 3-COMP POWER SOAK.
6. PULL STATION @ 3'-8" A.F.F.
7. GAS LINE DOWN TO EQUIPMENT.
8. COORDINATE LOCATION OF HORIZ PVC SYRUP CHASE THRU WALL TO COUNTER.
9. NOT USED.
10. SWITCHGEAR / ELECTRIC PANELS.
11. ROOF LADDER, SEE DETAILS 4 & 7/A6.0.
12. 8' LADDER.
13. SAFE.
14. SPLASH GUARD. SEE 9 / A6.3.

KEYNOTES B

MRV
ARCHITECTS, INC.
5105 TOLLVIEW DR.,
ROLLING MEADOWS, IL 60008
TEL: 224-318-2140 FAX: 224-735-3514

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TACO BELL
EXPLORER
MEDIUM - 40

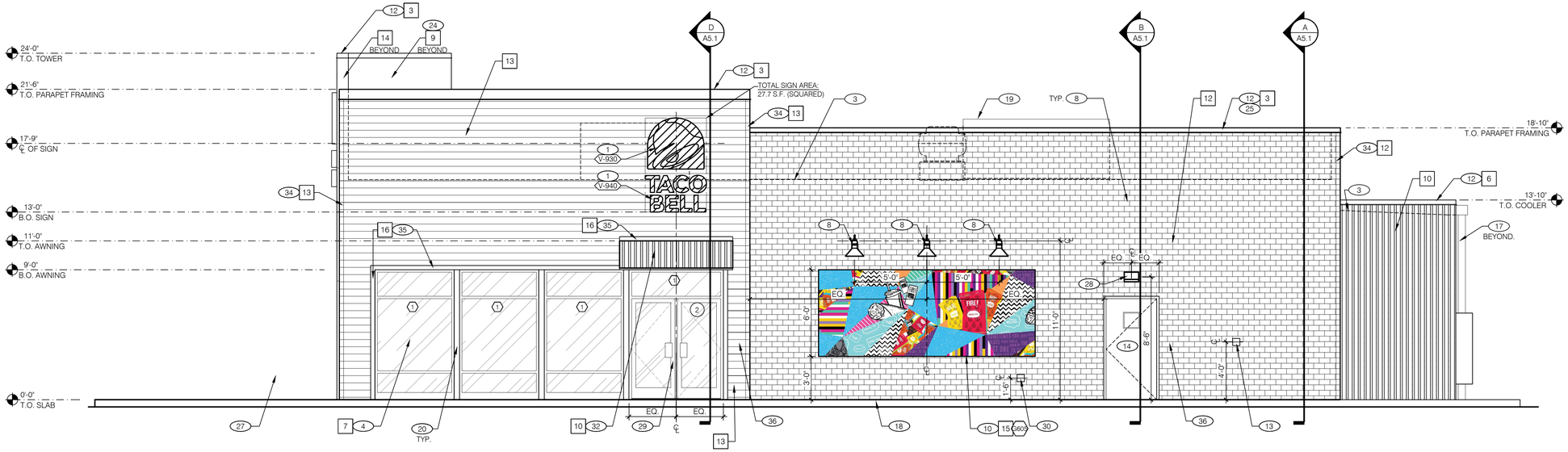
CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

TACO BELL
2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

EQUIPMENT AND SEATING PLAN

A2.0

PLOT DATE:



RIGHT SIDE ELEVATION 1/4"=1'-0" A

NOT USED N.T.S. B

NOTE: SIGNAGE UNDER SEPARATE PERMIT

V-XXX	QTY	ITEM DESCRIPTION	ELEC
V-930	2	TB 3'-6" x 4'-0" LOGO BELL - FACE LIT	X
V-940	3	TB 14" CHANNEL LETTER WHITE	X
V-904	1	9'-0" TALL MONUMENT SIGN	X

SIGN SCHEDULE N.T.S. C

#	QTY	ITEM DESCRIPTION	REMARKS
G-605	1	EXTERIOR MURAL - MASH UP	
G-604	1	EXTERIOR MURAL - LINEAR SAUCES	

ARTWORK SCHEDULE N.T.S. E

1. BUILDING SIGN, BY VENDOR. SEE STRUCTURAL BLOCKING ELEVATIONS, SHEET S5.0 FOR MORE INFORMATION. SEE ELECTRICAL PLANS FOR POWER REQUIREMENTS.
2. DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
3. DASHED LINE INDICATES ROOF BEYOND.
4. STOREFRONT, TYPICAL.
5. TUBE STEEL POST. SEE STRUCTURAL DWGS.
6. SWITCH GEAR. PAINT TO MATCH WALL.
7. CORRUGATED METAL ROOF.
8. GOOSENECK LAMP.
9. ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
10. DASHED BOX INDICATES AREA OF PAINTED 15'W x 6'H WALL MURAL.
11. TOWER WITH METAL PANEL FINISH.
12. PARAPET COPING. IF DURO-LAST EDGE TRIM IS USED. USE THE DURO-LAST PRE-FINISHED EDGE TRIM. SEE DETAIL 2/A6.0.
13. CO2 FILLER VALVE & COVER. SEE DETAIL 5/A6.2 SIM.
14. PAINT DOOR TO MATCH BRICK PANELS - SHERWIN WILLIAMS, SW 6098 PACER WHITE.
15. GAS SERVICE.
16. WALL SHALL BE FINISHED PRIOR TO INSTALLATION OF SWITCHGEAR.
17. SCUPPER, COLLECTOR, AND VERTICAL DOWNSPOUT 6" MIN. PAINT TO MATCH ADJACENT WALL.
18. CONCRETE CURB.
19. RTU BEYOND. PAINT TO MATCH MAIN BUILDING COLOR.
20. BREAK METAL COVER OVER WOOD STUDS TO MATCH STOREFRONT. SEE 3/A6.1
21. OVERFLOW SCUPPER
22. WOOD RAFTERS. SEE STRUCTURAL DWGS.
23. BOLLARD
24. DUROLAST SINGLE MEMBRANE ROOFING OR EQUAL.
25. IF THE DURO LAST PARAPET CAP TRIM IS USED IT SHALL NOT BE PAINTED.
26. WOOD HEADER BEAM. SEE STRUCTURAL DWGS.
27. PATIO RAILING. SEE SHEET A2.0.
28. WALL PACK LIGHT FIXTURE.
29. STOREFRONT DOOR. REFER TO DOOR SCHEDULE.
30. HOSE BIBB LOCATION. REFER TO PLUMBING AND DETAIL 8/A6.2
31. GUTTER AND DOWNSPOUT. PAINT TO MATCH COLUMN
32. METAL AWNING - BY OTHERS
33. 4" Ø BOLLARDS AT ALL DOWNSPOUTS.
34. PRE-FAB CORNER TO MATCH FIBER CEMENT PANEL.
35. 3 1/2" FIBER CEMENT BOARD TRIM - PAINT TO MATCH ADJACENT FIBER CEMENT BOARD PANEL.
36. KNOX BOX.

KEY NOTES D

MISCELLANEOUS
A. SEE SHT A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS):
A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
B. SEALANT AT ALL WINDOW AND DOOR FRAMES AT HEAD AND JAMB. DO NOT SEAL SILL @ WINDOWS.
C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING & CANOPY.

"CRITICAL" DIMENSIONS:
A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/ BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

GENERAL NOTES F

NOT USED N.T.S. G

NOT USED N.T.S. I

SYMBOL	AREA	MANUFACTURER	COLOR			CONTACT INFORMATION
1	CANOPY RAFTER/ BEAM PAINT	SHERWIN WILLIAMS	SW3022 "WOODSCAPES BLACK ALDER"			SHERWIN WILLIAMS: BRAD HARRINGTON, 216-228-54988 (PHONE), BRAD.E.HARRINGTON@SHERWIN.COM (EMAIL)
2	CANOPY COLUMN PAINT	SHERWIN WILLIAMS	SW 7062 ROCK BOTTOM			
3	PARAPET CAP (TOWER)	DUROLAST 25	MEDIUM BRONZE (FACTORY FINISH)	SHERWIN WILLIAMS	SW 7069 "IRON ORE"	DURO-LAST: LEE COBB, 800-434-3876 (PHONE)
4	PARAPET CAP (FRONT)	DURALAST	SHERWIN WILLIAMS SW6832 "IMPULSE PURPLE" EGGSHELL (P-4)			
5	PARAPET CAP (SIDES)	DUROLAST 25	REGAL WHITE (FACTORY FINISH)			
6	PARAPET CAP (COOLER)	DUROLAST 25	GALVALUME PLUS (FACTORY FINISH)			
7	STOREFRONT WINDOWS	TBD	CLEAR ANODIZED			
8	PIPE BOLLARDS	STREET SMART	YELLOW - 1/4" THICK PLASTIC COVER (US.POSTMAN.COM) OR EQUAL			
9	PARAPET BACK ROOFING	DUROLAST	THE COLOR SHALL BE FACTORY COLORED "TAN." EQUAL ALTERNATE ALLOWED.			DURO-LAST: LEE COBB, 800-434-3876 (PHONE)
10	AWNING, PATIO ROOF, COOLER WALL	BERRIDGE	S-DECK PREWEATHERED GALVALUME			
11	FIBER CEMENT PANELS	NICHIHA - VINTAGEWOOD	CEDAR			NICHIHA: CHRIS TATE, 404-538-1261 (PHONE), ctate@nichiha.com (EMAIL)
12	FIBER CEMENT BRICK PANELS	NICHIHA - VINTAGEBRICK	WHITE WASH			
13	FIBER CEMENT PANELS	NICHIHA - ROUGH SAWN	"SMOKE"			NICHIHA: CHRIS TATE, 404-538-1261 (PHONE), ctate@nichiha.com (EMAIL)
14	METAL PANELS	WESTERN STATES METAL ROOFING	18" A606-4 RUSTWALL PANELS			WESTERN METAL DECK: RUSTY FAILS - RUSTY@METALDECK.COM - WWW.METALDECK.COM
15	WALL MURAL	THIS STUFF WORKS	TSW8 ACRYLI-MASTER GRAFFITI RESISTANT COATING			
16	FIBER CEMENT BOARD TRIM	JAMES HARDIE	HARDIETRIM - 5/4" X 3 1/2" SMOOTH			

EXTERIOR FINISH SCHEDULE H

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TACO BELL
EXPLORER
MEDIUM - 40

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

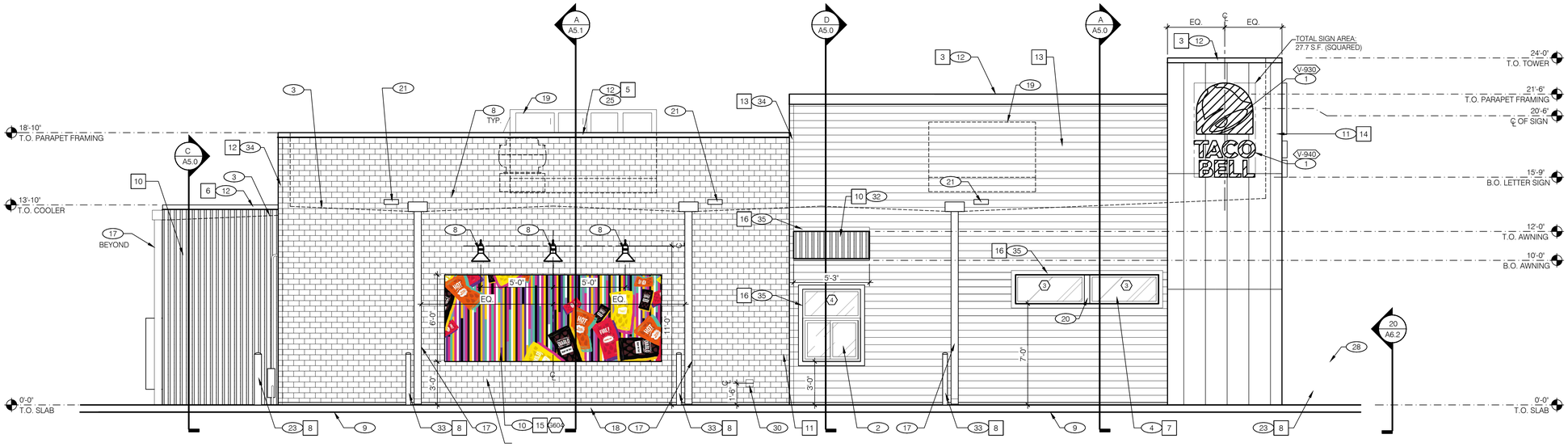
TACO BELL

2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

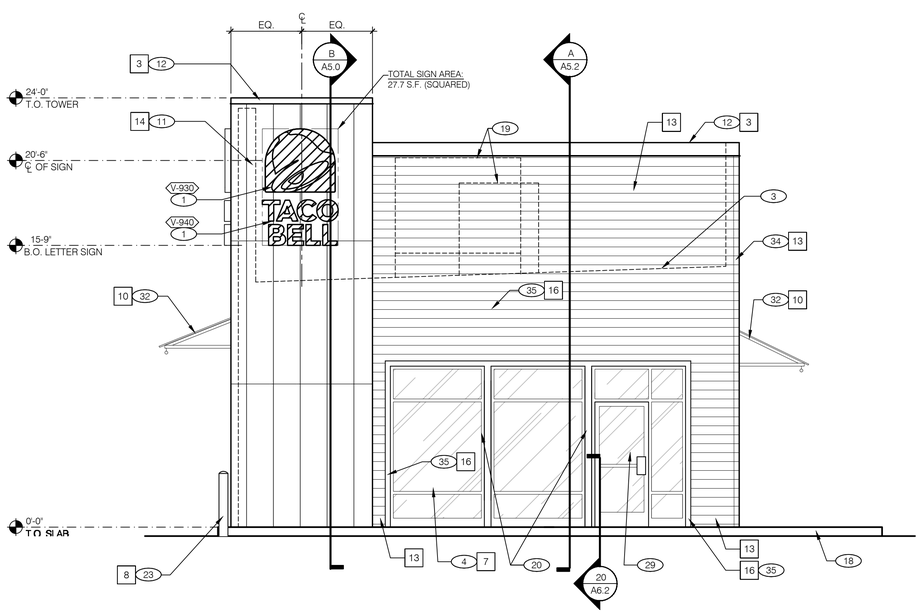
EXTERIOR ELEVATIONS

A4.0

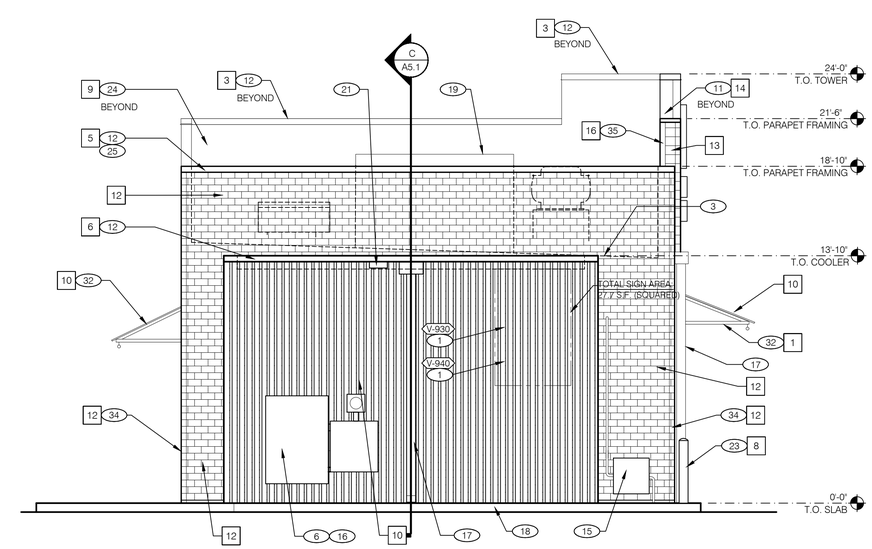
PLOT DATE:



LEFT SIDE ELEVATION 1/4" = 1'-0" | **A**



FRONT ELEVATION 1/4" = 1'-0" | **C**



REAR ELEVATION 1/4" = 1'-0" | **B**

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TACO BELL
EXPLORER
MEDIUM - 40

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	JANUARY, 2019
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

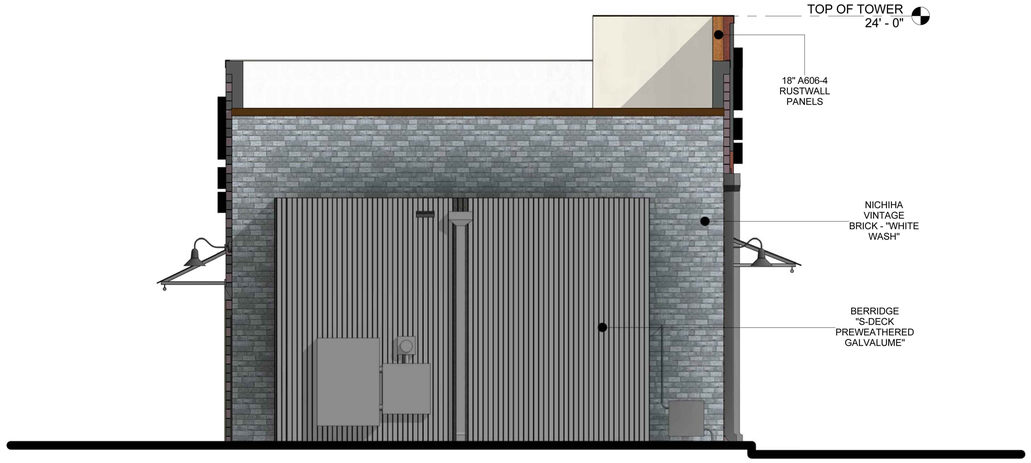
TACO BELL

2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

EXTERIOR ELEVATIONS

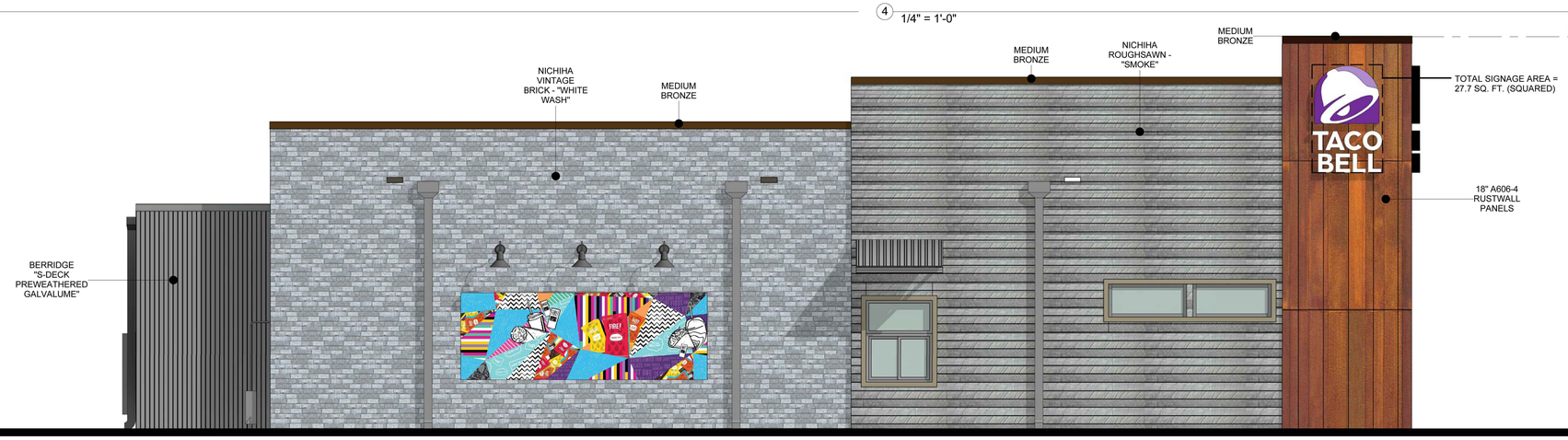
A4.1

PLOT DATE:



3 1/4" = 1'-0"

4 1/4" = 1'-0"



2 1/4" = 1'-0"

1 1/4" = 1'-0"

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TACO BELL
EXPLORER
MEDIUM - 40

CONTRACT DATE:	03.19.18
BUILDING TYPE:	EXPLORER MED40
PLAN VERSION:	MARCH, 2017
SITE NUMBER:	XXX-XXX
STORE NUMBER:	XX-XXXX

TACO BELL

2707 N. GRANDVIEW BLVD.
WAUKESHA, WI

RENDERED EXTERIOR ELEVATIONS

A4.0

PLOT DATE:

VIPER L OPTICS STRIKE

LARGE VIPER LUMINAIRE

Cat.#	
Job	Type

BEACON design . performance . technology

Approvals

SPECIFICATIONS

Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- Two-piece silicone and microcellular polyurethane foam gasket ensures a weather-proof seal around each individual optic.

Electrical:

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (UNV), 347V, or 480V input.
- Power factor is ≥ .90 at full load.
- All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL- 217F Notice 2.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41-2013 twist-lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Surge protection - 20kA.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration.
- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night (see www.beaconproducts.com/products/energeni).
- In addition, Viper can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelllighting.com/sitesync

Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

Finish:

- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

Certifications/Ratings:

- Listed to UL 1598 and CSA22.2#250.0 for wet locations
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved

Warranty:

Five year limited warranty for more information visit: www.hubbelllighting.com/resources/warranty

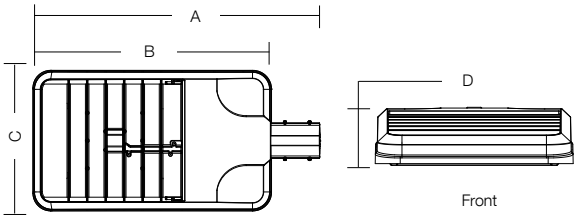
CERTIFICATIONS/LISTINGS

C US

*3000K and warmer CCTs only

PRODUCT IMAGE(S)

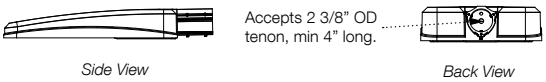
DIMENSIONS



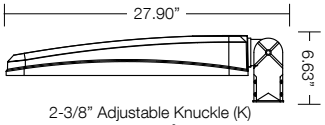
A	B	C	D	Weight:	EPA
29.12"	24.19"	14.25"	4.13"	25.0 lbs	1.2 ft²
(740 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

MOUNTING OPTIONS

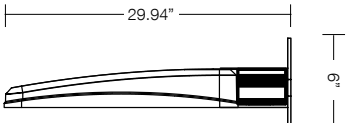
Rectangular Arm (A)



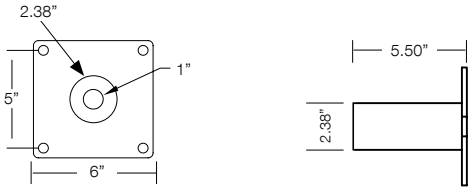
2-3/8" OD Slip Fitter (MAF)



2-3/8" Adjustable Knuckle (K) limit to 45º tilt



Wall Bracket (WB)



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HUBBELL Lighting

ORDERING INFORMATION

ORDERING EXAMPLE: VPL/96L-280/4K7/4W/UNV/A/DBT/7PR-TL/GENI-04/BC

VPL

SERIES

VPL Viper

LED ENGINE

64L-135 135W LED array
80L-180 180W LED array
80L-235 235W LED array
96L-220 220W LED array
96L-280 280W LED array
96L-315 315W LED array
96L-395 395W LED array

CCT/CRI

3K7 3000K, 70 CRI
4K7 4000K, 70 CRI
5K7 5000K, 70 CRI

ROTATION

Leave blank for no rotation
L[5] Optic rotation left
R[5] Optic rotation right

VOLTAGE

UNV 120-277V
120 120V
208 208V
240 240V
277 277V
347 347V
480 480V

COLOR

DBT Dark Bronze Textured
BMT Black Matte Textured
PS Platinum Silver Smooth
WHT White Textured
CC Custom Color (RAL#)

OPTIONS

F Fusing
BSP Bird Spikes
BC Backlight control (limited to Type 4W only)

DISTRIBUTION

FR Type 1/Front Row
2 Type 2
3 Type 3
4 Type 4
4W Type 4 Wide
5QM Type 5QM
5QN Type 5QN
5R Type 5R (rectangular)
5W Type 5W (round wide)

MOUNTING

A Rectangular Arm (formerly RA)
MAF Mast Arm Fitter (formerly SF2)
K Knuckle (formerly PK2) limit to 45° tilt
WB Wall Bracket

CONTROL OPTIONS

7PR 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)
7PR-SC 7-Pin Receptacle w/Shorting Cap
7PR-TL 7-Pin Receptacle w/Twist Lock photo control
SCP[1,2,6] Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
WSP[1,2] WASP Occupancy Sensor w/ daylight control (347 or 480 volts only)
GENI-XX[3] ENERGENI
SWP[1,4] SiteSync Pre-Commission
SWPM[1,2,4] SiteSync Pre-Comm w/ Sensor

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DBT/SWP/ SiteSync only
VP-L/80L-235/4K7/3/UNV/A/DBT/SWPM-20F/ SiteSync with Motion Control

Accessories and Services (Ordered Separately)

Catalog Number	Description
SWUSB*	SiteSync loaded on USB flash drive (Windows based only)
SWTAB*	SiteSync Windows Tablet
SWBRG+	SiteSync Wireless Bridge Node

*When ordering with SiteSync, one of the interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

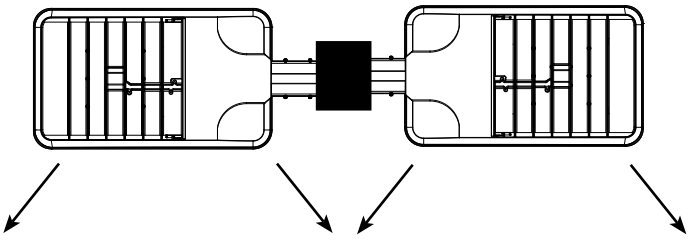
+ If needed, an additional Bridge Node can be ordered.

[1] Not available with other sensor, control, or photo control receptacle options
[2] Specify mounting height
[3] Specify routine setting code (example GENI-04). See ENERGENI brochure and instructions for setting table and options. Not available with sensor or SiteSync options.
[4] Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for further details. Order at least one SiteSync interface Accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
[5] Only available with 1A, 2, 3, 4, 4W and 5R distributions
[6] Order at least one SCP-REMOTE per project location to program and control

SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

LEFT ROTATED OPTIC

RIGHT ROTATED OPTIC



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PERFORMANCE DATA				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G
64	625 mA	135W	FR	18220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2
			2	17228	125	2	0	2	17761	129	2	0	2	15452	112	2	0	2
			3	17257	125	2	0	3	17791	129	2	0	3	15478	112	2	0	3
			4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3
			4W	16797	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3
			5QM	17259	125	4	0	2	17792	129	4	0	2	15479	112	4	0	2
			5QN	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0
			5R	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4
			5W	16498	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2
80	700 mA	180W	FR	23230	128	2	0	2	23948	132	2	0	2	20835	115	2	0	2
			2	21965	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			3	22003	121	2	0	4	22683	125	3	0	4	19734	109	2	0	4
			4	21502	119	2	0	4	22167	122	2	0	4	19285	106	2	0	4
			4W	21416	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4
			5QM	22005	121	4	0	2	22686	125	4	0	2	19736	109	4	0	2
			5QN	22979	127	4	0	1	23689	131	4	0	1	20610	114	4	0	0
			5R	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			5W	21035	116	5	0	3	21686	120	5	0	3	18867	104	4	0	3
80	875 mA	235W	FR	27849	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2
			2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3
			3	26378	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4
			4	25777	112	2	0	4	26575	115	2	0	5	23120	100	2	0	4
			4W	25675	111	3	0	4	26469	115	3	0	4	23028	100	3	0	4
			5QM	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2
			5QN	27548	119	5	0	1	28400	123	5	0	1	24708	107	5	0	1
			5R	26611	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4
			5W	25218	109	5	0	3	25998	113	5	0	3	22618	98	5	0	3
96	700 mA	220W	FR	27876	128	2	0	2	28738	132	2	0	2	25002	115	2	0	2
			2	26359	121	3	0	3	27174	125	3	0	4	23641	109	3	0	3
			3	26403	121	3	0	4	27220	125	3	0	4	23681	109	3	0	4
			4	25802	119	2	0	4	26600	122	2	0	5	23142	106	2	0	4
			4W	25700	118	3	0	4	26494	122	3	0	4	23050	106	3	0	4
			5QM	26406	121	4	0	2	27222	125	4	0	2	23683	109	4	0	2
			5QN	27575	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1
			5R	26637	122	5	0	5	27460	126	5	0	5	23890	110	4	0	4
			5W	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3
96	875 mA	280W	FR	33419	121	3	0	2	34453	125	3	0	2	*29974*	*108*	*2*	*0*	*2*
			2	31600	114	3	0	4	32577	118	3	0	4	*28342*	*102*	*3*	*0*	*4*
			3	31654	114	3	0	5	32633	118	3	0	5	*28390*	*103*	*3*	*0*	*4*
			4	30933	112	2	0	5	31889	115	2	0	5	*27744*	*100*	*2*	*0*	*5*
			4W	30810	111	3	0	5	31763	115	3	0	5	*27634*	*100*	*3*	*0*	*4*
			5QM	31657	114	5	0	3	32636	118	5	0	3	*28393*	*103*	*4*	*0*	*2*
			5QN	33058	119	5	0	1	34080	123	5	0	1	*29650*	*101*	*5*	*0*	*1*
			5R	31933	115	5	0	5	32921	119	5	0	5	*28641*	*104*	*5*	*0*	*5*
			5W	30262	109	5	0	4	31198	113	5	0	4	*27142*	*98*	*5*	*0*	*3*
96	1000mA	315W[2]	FR	35666	113	3	0	2	36769	117	3	0	2	*31989*	*101*	*2*	*0*	*2*
			2	33725	107	3	0	4	34768	110	3	0	4	*30248*	*96*	*3*	*0*	*4*
			3	33782	107	3	0	5	34827	110	3	0	5	*30299*	*96*	*3*	*0*	*4*
			4	33012	105	2	0	5	34033	108	2	0	5	*29609*	*94*	*2*	*0*	*5*
			4W	32882	104	3	0	5	33899	107	3	0	5	*29492*	*93*	*3*	*0*	*5*
			5QM	33785	107	5	0	3	34830	110	5	0	3	*30302*	*96*	*5*	*0*	*2*
			5QN	35280	112	5	0	1	36371	115	5	0	1	*31643*	*100*	*5*	*0*	*1*
			5R	34080	108	5	0	5	35134	111	5	0	5	*30567*	*97*	*5*	*0*	*5*
			5W	32302	102	5	0	4	33301	106	5	0	4	*28972*	*92*	*5*	*0*	*4*
96	1225mA	395W[2]	FR	39569	101	3	0	4	43125	110	3	0	3	*37518*	*96*	*3*	*0*	*2*
			2	39569	101	3	0	4	40793	104	3	0	4	*35490*	*91*	*3*	*0*	*4*
			3	39619	101	3	0	5	40845	104	3	0	5	*35535*	*91*	*3*	*0*	*5*
			4	38723	98	3	0	5	39921	101	3	0	5	*34731*	*88*	*2*	*0*	*5*
			4W	38570	98	3	0	5	39763	101	3	0	5	*34594*	*88*	*3*	*0*	*5*
			5QM	39623	101	5	0	3	40848	104	5	0	3	*35538*	*90*	*5*	*0*	*3*
			5QN	41394	105	5	0	1	42675	109	5	0	1	*37127*	*95*	*5*	*0*	*1*
			5R	39969	102	5	0	5	41205	105	5	0	5	*35848*	*91*	*5*	*0*	*5*
			5W	37877	97	5	0	4	39048	100	5	0	4	*33986*	*87*	*5*	*0*	*4*

[1] Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.
[2] 315W and 395W 3000K versions are not DLC QPL listed. Reference highlighted cells in table.

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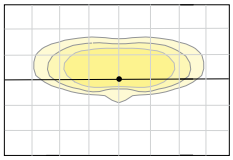
PHOTOMETRICS

Type FR - Front Row/Auto Optic



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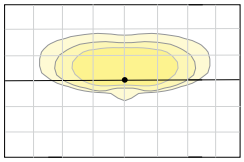

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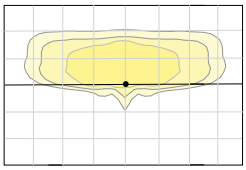

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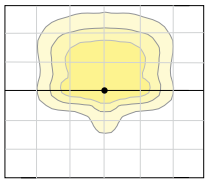
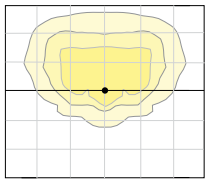
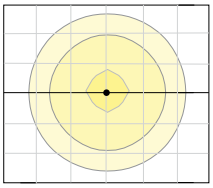


Type 4W



Type 5W



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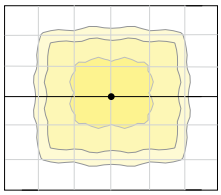
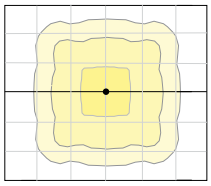
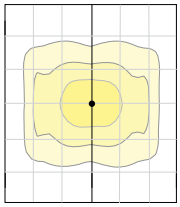


Type 5QM



Type 5R



ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			277		0.6
			347		0.5
			480		0.3
80	2	700 mA	120	180	1.8
			277		0.8
			347		0.6
			480		0.5
80	2	875 mA	120	235	2.4
			277		1.0
			347		0.8
			480		0.6
96	2	700 mA	120	220	2.2
			277		1.0
			347		0.8
			480		0.6
96	2	875 mA	120	280	2.8
			277		1.2
			347		1.0
			480		0.7
96	2	1000 mA	120	315	3.2
			277		1.4
			347		1.1
			480		0.8
96	2	1225 mA	120	395	4.0
			277		1.7
			347		1.4
			480		1.0

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	[1]TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

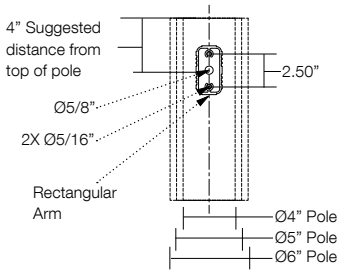
[1] Projected per IESNA TM-21-11
Data references the extrapolated performance projections for the 700mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.97
40°C	104°F	0.92

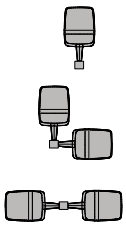
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

DRILL PATTERN

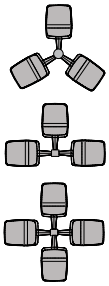
Compatible with Pole drill pattern B3



EPA



Config.	EPA
1	1.2
2 @ 90°	1.9
2 @ 180°	2.4



Config.	EPA
3 @ 120°	3.0
3 @ 90°	3.1
4 @ 90°	3.8

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