

117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

TO: Augusta Township Planning Commission

FROM: Laura K. Kreps, AICP, Township Planner

DATE: December 8, 2021

RE: Planning Commission Agenda Packet for December 15, 2021 Regular Meeting

Please find a summary of the business item on this month's Planning Commission agenda below. *Hard copies of this material will be provided via UPS.*

- a. SP 21-01 Dollar General, T-20-01-395-005, Final Site Plan Review Dollar General is seeking final site plan approval for the construction of a 9,100 square foot retail store and associated site improvements. Our review has been updated based on the revised plan submitted since the November Planning Commission meeting. All outstanding planning issues have been addressed.
- b. SLU 21-01 Railsplitter #2 Special Land Use Multiple Properties. An application has been received for a special land use for large-scale solar project north of Arkona, south of Talladay, east of Sanford and west of Gooding encompassing thirteen (13) parcels and 478 acres of land. A preapplication conference was conducted at the April 2021 Planning Commission meeting. A public hearing was conducted at the September 2021 Planning Commission meeting.
 - Since that time, a subcommittee has met with Ranger representatives and drafted two (2) resolutions for Planning Commission consideration. One resolution approves the special land use of the large-scale solar facility with conditions (outlined in the Resolution document). The other resolution outlines the findings of fact to deny the large-scale solar facility. These resolutions are meant to be examples for the Planning Commission to work from in your deliberation of the special land use.
- c. **SP21-03**, **Railsplitter #2 Preliminary Site Plan Multiple Properties**. In addition to special land use approval, the applicant is seeking simultaneous review of the preliminary site plan for the Railsplitter #2 project. Approval of the preliminary site plan is conditioned upon receiving special land use approval and is being conducted at the applicant's risk.

As always, please feel free to contact me directly with any questions prior to the meeting.

CARLISLE/WORTMAN ASSOC., INC.

Laura K. Kreps, AICP

Senior Associate

cc: Township Supervisor

Township Clerk

OHM, Township Engineer

AGENDA Augusta Charter Township Regular Planning Commission Meeting

Township Hall December 15, 2021 6:30 PM

- 1. Call to Order
- 2. Pledge of Allegiance
- **3.** Roll Call and Recognition of Visitors –Yurk, Buxton, Woolf, Hall, Spence, Hurd, Rawlins
- 4. Approval of Agenda
- 5. Approval of Minutes
 - a. Planning Commission Meeting Minutes from November17, 2021 Regular Meeting
- 6. Public Hearings
 - a. None
- 7. Business Items
 - a. SP 21-01, Dollar General, T-20-01-395-005, Final Site Plan Review.
 - b. **SLU 21-01, Railsplitter #2, Special Land Use,** Large-Scale Solar Facility, north of Arkona, south of Talladay, east of Sanford, west of Gooding. T-20-19-400-001; T-20-19-400-002; 5655 Willow Road (T-20-30-100-002); 5760 Willow Road (T-20-30-100-003); T-20-30-100-004; 12439 McCrone Road (T-20-30-100-005); T-20-30-200-008; T-20-30-200-012; T-20-30-400-006; T-20-19-300-003; T-20-30-200-009; 12182 McCrone Road (T-20-30-200-010).
 - c. **SP 21-03, Railsplitter #2, Preliminary Site Plan –** Large-Scale Solar Facility
- 8. Public Comment
- 9. Communications
- 10. Adjournment

Meeting Minutes Augusta Charter Township Regular Planning Commission Meeting Township Hall

Wednesday, November 17, 2021 6:30 PM

1. Call to Order

The meeting was called to order by Vice Chair Woolf at 6:30 PM.

2. Pledge of Allegiance

Vice Chair Woolf led Pledge.

3. Roll Call and Recognition of Visitors.

In Attendance: Janet Buxton, David Hall, Linda Spence, Dan Woolf, Paul Rawlins. Absent: Shelly Hurd, Robert Yurk. Also attending were Planner Kreps and Engineer Bayley.

4. Approval of Agenda

Vice Chair Woolf requested two items be added to Agenda after #6 as #7. Introduction of new Commissioner Paul Rawlings and #8. Election of a Secretary with remainder renumbered as 9-12. Vice Chair Woolf then made the motion to approve the amended Agenda, support by Spence. Motion carried unanimously.

5. Approval of Minutes

Hall made motion to approve minutes from October 20, 2021 Planning Commission Meeting, Support by Spence. Motion carried unanimously.

6. Public Hearings – None

7. Introduction to New Commissioner

Commissioner Paul Rawlins introduced himself.

8. Election of Secretary

Commissioner Spence volunteered for position of Secretary. Motion to elect Spence Secretary by Spence supported by Hall. Motion carried unanimously.

9. Business Items

a. PA 21-01 – Selter, T-20-10-400-010 – Recommendation on allowing applicant a 10-year abatement through the Michigan Department of Natural Resources Farmland and Open Space Preservation Program.

Motion to approve made by Hall, supported by Spence. Motion carried unanimously. The Applicant was not present.

b. SP 21-01, Dollar General, T-20-01-395-005, Final Site Plan Review.

Commission discussed concerns about final site plan (screening, landscaping maintenance, fence, driveway). A motion to postpone by Spence supported by Hall, motion carried unanimously. The Petitioner was not present.

c. Master Plan Discussion

Planner Kreps informed commission that the sub-committee for updating the Master Plan had met and is moving forward with an expected completion by end of next year.

10. Public Comment

Some residents voiced concern and opposition to Dollar General.

Alisa Soos – Potterville Dr.

Mary Lula - Willis Rd.

Tammie Keen - Willis Rd.

Mike King - Willis Rd.

Dale-Lin Mallonen – Judd Rd.

Cath Howard - Willow Rd.

Billie-Jo Stears - Potterville Dr.

11. Communications

David Hall reported no communication.

12. Adjournment

Hall motioned to close the meeting and Buxton supported. Motion carried unanimously. Meeting was closed at 7:35 PM



то: Heather Rowland

Company: Augusta Charter Township

8021 Talladay Rd

Whittaker, MI 48191

Date: November 24th, 2021

PN: 20264 DGAM

Project: Dollar General · Augusta, MI (Willis)

Subject: Site Plan Review Reponses

Comment Responses:

In addition to the 11/04 comment responses, below are the responses to the new 11/18 comments:

1. Washtenaw County Road Commission approval is obtained. -

Overland Engineering Response: Gary Streight will be contacting the Township soon and we will forward the WCRC permit when received.

2. Maximum light pole height is indicated on your response to be 22.5-feet total height. This will need to be reduced to 20 feet which is the maximum light pole height allowed.

Overland Engineering Response: See Revised Sheet E5 and new E7, E8, E9, E10 for Lighting Specs.

3. The Planning Commission requested a vinyl fence along the east property line as opposed to the wood fence during preliminary site plan. Wood fencing still shown.

Overland Engineering Response: Sheets C1, C4 and C5 have been revised to show the Vinyl fence as noted.

4. There is an additional house bordering the site along the east property requiring extension of the fence and landscape screening further north along the east property line.

Overland Engineering Response: Additional fence and landscape screening has been added to Sheet C1 and C5 as noted.

Jordan Ryan - Architectural Project Coordinator

Date: November 24, 2021

116 N. 2nd Avenue Ozark, MO

www.tdp-

RECOMMENDATIONS

We recommend approval of the preliminary site plan with the following items to be addressed during final site plan review:

- 1.
- Provide Washtenaw County Road Commission approval.

 -Gary Streight at WCRC is finalizing the permit and should be in contact soon.
- 2. Provide 18 additional general site landscaping trees.
 - -Revised as noted, see Sheet C5.
- 3. Provide height of pole-mounted fixtures.
 - -See revised Sheet E5, Total height is 22.5' Provide detail of all proposed light fixtures.
- 4.
- -See revised Sheet E5 fixture schedule & Product Line catalog for detail.
- Demonstrate location of freestanding sign in relation to Willis Road future right-of-way. 5.
- -Dimensions have added to Sheet C1 Reduce size of freestanding sign to 32 square feet. 6.
 - -Dimensions have added to Sheet C1 and the signage plan has been revised.
- Provide detail of sign base and overall sign height (maximum 6 feet). 7.
 - -Please see sheet A7.1. Sign base details & overall sign height added. Reduce size of wall sign to 60 square feet.
- 8.
 - -Please see sheet A7.1. Wall sign revised to meet 60s.f. max requirement.
- Sign permits must be submitted for review and approval by the Township Zoning 9. Administrator. - Understood. All signage to be submitted for review/permitted by installer.
- Verify material proposed as "21" window/glazing and level of transparency.

 -Note 21 was a holdover note regarding eyebolts for attachment of temporary signage).

 It has now been deleted from Sheet A2.1.

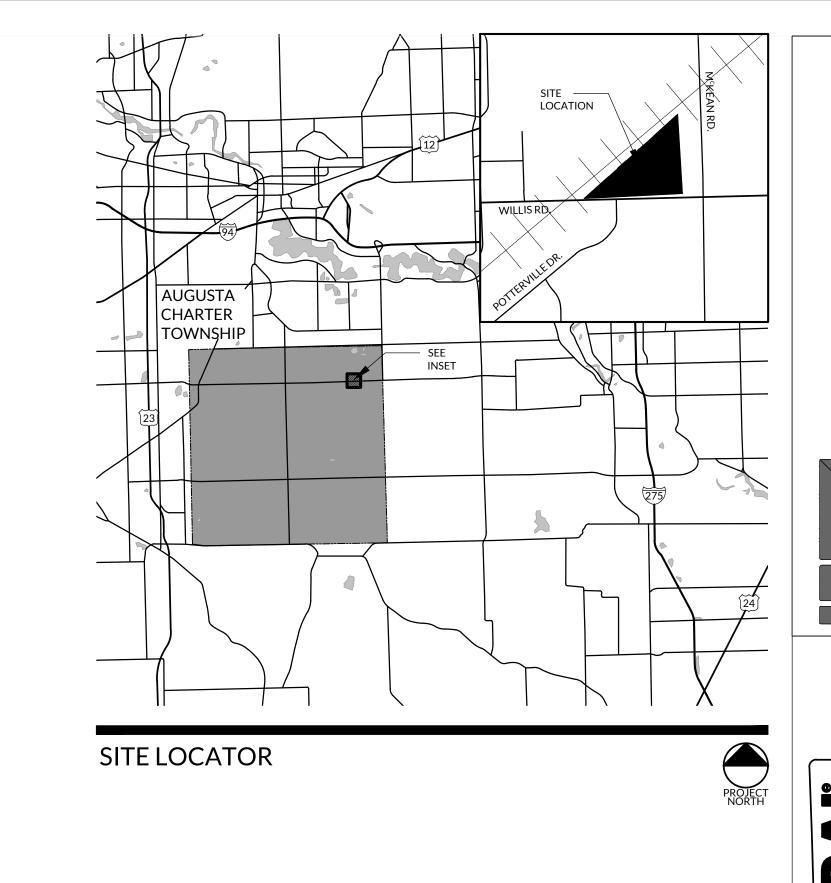
 Planning Commission to review/approve façade colors and systems during final site 10.
- 11.
 - plan. -Understood. All facade colors and systems to be reviewed/approved during final site plan review.

CARLISLE/WORTMAN ASSOC., INC.

Laura K. Kreps, AICP Senior Associate

#144-2100

cc: Rodney Parrott via rodney@overlandeng.com

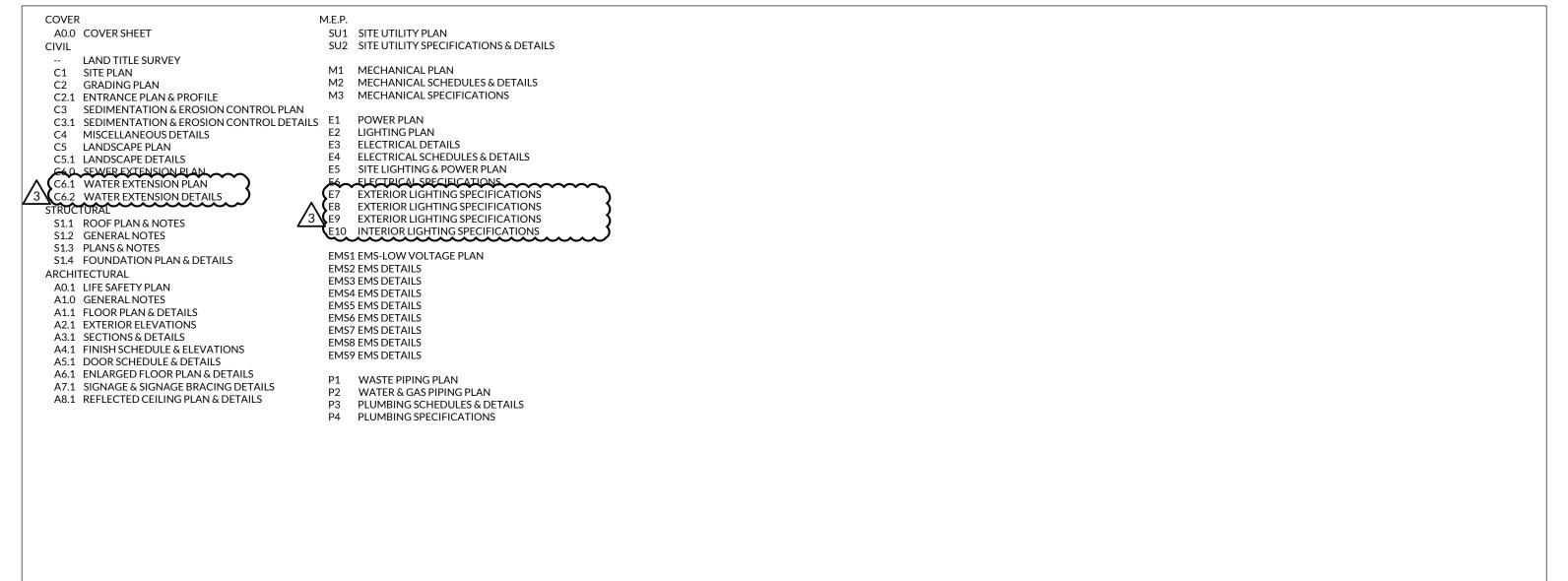


DOLLAR GENERAL STORE #22731 AUGUSTA, MICHIGAN 10467 WILLIS ROAD

20264 · DGAM

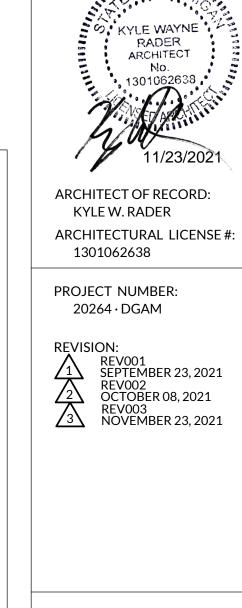
APRIL 01, 2021

PERMIT SET



ADOPTED CODES: 2015 MICHIGAN BUILDING CODE (MBC) 2015 MICHIGAN FIRE CODE (MFC) 2015 MICHIGAN MECHANICAL CODE 2015 MICHIGAN PLUMBING CODE 2017 NFPA 70 NATIONAL ELECTRIC CODE (NEC) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2015 MICHIGAN ENERGY CODE **CURRENT ZONING:** GENERAL COMMERCIAL USE GROUP: NON-SEPARATED MIXED USE • "M" MERCANTILE & "S-1" MODERATE HAZARD STORAGE TOTAL SQUARE FOOTAGE: BUILDING AREA: TOTAL LEASABLE AREA: 9,225 S.F. OVERALL BUILDING DIMENSIONS: 70'-2" x 130'-0" 68'-0" MIN. (FROM FACE OF COLUMNS) x 107'-4" MIN. SALES FLOOR DIMENSIONS: SALES AREA: RECEIVING AREA: 984 S.F. 72 S.F. 72 S.F. 72 S.F. 72 S.F. 99 S.F. BREAK ROOM: MEN'S RESTROOM: WOMEN'S RESTROOM: HALLWAY: ALLOWABLE AREA: PER IBC TABLE 506.2: II-B (MERCANTILE "M") = 12,500 S.F. AREA OF BUILDING ON SITE = 9.225 S.F. **BUILDING HEIGHT:** PER IBC TABLE 504.3: II-B (MERCANTILE "M") = 55'-0" HEIGHT OF BUILDING ON SITE = 18'-6" TO TOP OF PARAPET CONSTRUCTION TYPE: OCCUPANT LOAD: CALCULATED PER IBC TABLE 1004.5 = 130 OCCUPANTS (REFER TO SHEET A0.1) EXITS: REQUIRED PER IBC SECTION 1006: MINIMUM: 2 EXITS · ACTUAL: 3 EXITS **EXIT WIDTHS:** STAIRWAYS: N/A OTHER EGRESS COMPONENTS: 0.2" PER OCCUPANT TRAVEL DISTANCES: REQUIRED PER IBC TABLE 1017.2: MAXIMUM ALLOWED: 200'-0" · ACTUAL: 109'-0"





COVER

DATE: APRIL 01, 2020

STORE #22731. PROTOTYPE "C"
AUGUSTA, MICHIGAN
WILLIS ROAD & POTTERVILLE DRIVE

OWNER/ DEVELOPER: DGOGWILLISMI082820, LLC 1598 IMPERIAL CENTER, SUITE 2001 WEST PLAINS, MO 65775 417-256-4790

ARCHITECT: TORGERSON DESIGN PARTNERS 116 N 2ND AVE **OZARK, MO 65721** 417-581-8889

ENGINEER: OVERLAND ENGINEERING, LLC 1598 IMPERIAL CENTER, SUITE 2009 WEST PLAINS, MO 65775 417-256-8150

PERMIT & UTILITY CONTACTS:

GOVERNING MUNICIPALITY AUGUSTA CHARTER TOWNSHIP PO BOX 100 8021 TALLADAY RD WHITTAKER, MI 48191 734-461-6117

DRAINAGE & SOIL EROSION CONTROL WASHTENAW COUNTY WATER RESOURCES 705 N. ZEEB RD. PO BOX 8645 ANN ARBOR, MI 48107 734-222-6815

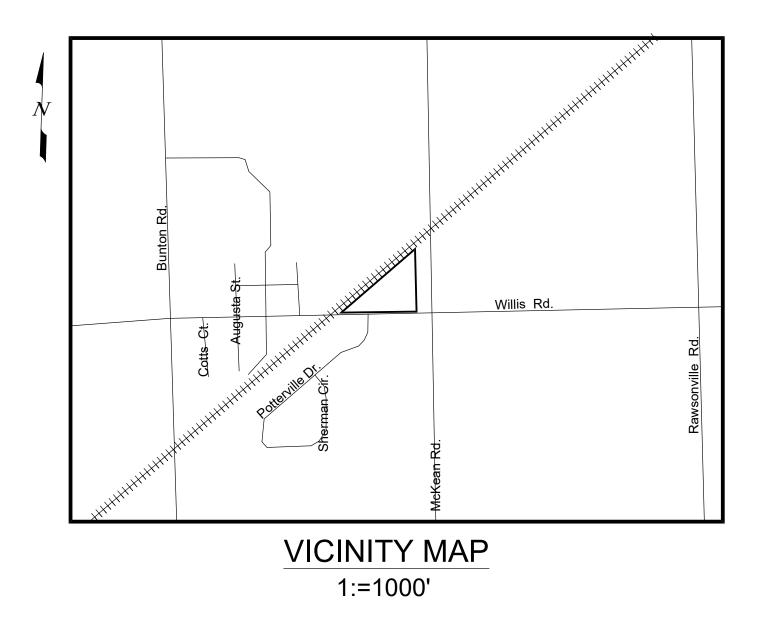
ROAD WORK & DRIVEWAY WASHTENAW COUNTY ROAD COMMISSION 555 N. ZEEB ROAD ANN ARBOR, MICHIGAN 48107 734-761-1500

TELEPHONE SERVICE 54 N. MILL ST. 4TH FLOOR PONTIAC, MI 48342 TEL 248-456-8256

GAS & ELECTRIC SERVICE DTE ENERGY ONE ENERGY PLAZA DETROIT, MI 48226 TEL 313-235-5111

WATER AND SEWER SERVICES **AUGUSTA CHARTER TOWNSHIP** P.O. BOX 100 WHITTAKER, MI 48190 TEL 734-461-6117

CONSTRUCTION PLANS FOR: DOLLAR GENERAL STORE 10467 WILLIS RD. WILLIS, MICHIGAN



PPROJECT DESCRIPTION

THIS PROJECT IS A PROPOSED DOLLAR GENERAL RETAIL STORE AND ASSCOCIATED PARKING LOT. THE PROPERTY IS CURRENTLY UNDEVELOPED AND IS THE ON THE NORTH SIDE OF WILLIS ROAD IN AUGUSTA TOWNSHIP.

PARCEL DESCRIPTION

CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NO. 811120006NTS, DATED 06-29-20

Land situated in the Township of Augusta, County of Washtenaw, State of Michigan, described as follows:

Commencing at the South 1/4 post of Section; thence N.89°-43'W., 170.00 feet in the South line of Section for a place of beginning; thence North, 641.14 feet, parallel to the North and South 1/4 line, to the Southeasterly line of Wabash Railroad; thence Southwesterly in the Southeasterly line of Railroad to the South line of Section; thence S.89°-43'E., 754.00 feet in the South line of Section to the place of beginning; being part of the East 1/2 of the Southwest 1/4 of Section 1, T.4 S.-R.7 E., Augusta Township, Washtenaw County, Michigan.

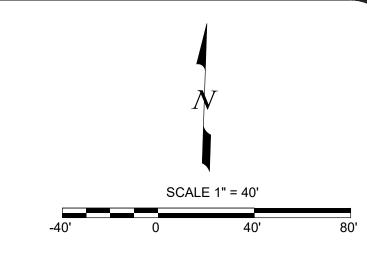
AS SURVEYED METES AND BOUNDS LEGAL DESCRIPTION:

A parcel of land in the Southwest 1/4 of Fractional Section 1, T.4 S.-R.7 E., Augusta Township, Washtenaw County, Michigan, described as follows; Beginning at a point on the South line of said Section 1, which is 170.00 feet, S.88°-15'-03"W., of the South 1/4 Corner of said Section; thence N.02°-02'-42"W., parallel with the North and South 1/4 line of said Section, 641.02 feet to the Southeasterly right of way line of Wabash Railroad; thence S.49°-17'-39"W., on said Southeasterly right of way line, 1019.54 feet to said South line; thence N.88°-15'-03"E., on said South line, 796.12 feet to the point of beginning, containing 5.86 acres of land, subject to highway use of the South 33.00 feet thereof and subject to any other easements of record.

BENCHMARKS

BM-A - TOP OF NE FLANGE BOLT UNDER "W" IN EJIW FIRE HYDRANT LOCATED AT THE E. SIDE OF DRIVE INTO AUGUSTA COMMONS SUBDIVISION. NAVD88 EL. 687.91

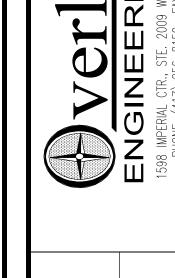
BM-B - SET GEARSPIKE IN NW FACE OF POWER POLE, 3RD POWER POLE WEST OF MCKEAN & WILLIS INTERSECTION. NAVD88 EL. 685.88



CIVIL SHEET INDEX

C0	COVER
C1	SITE PLAN
C2	GRADING PLAN
C2.1	ENTRANCE PLAN AND PROFILE
C2.2	STORMWATER CALCULATIONS
C3	EROSION CONTROL
C3.1	EROSION CONTROL DETAILS
C4	MISC. DETAILS
C5	LANDSCAPE PLAN
C5.1	LANDSCAPE DETAILS AND NOTE:
C6	SEWER LINE EXTENSION

DW01-02 WATER LINE EXTENSION



SHE COVER

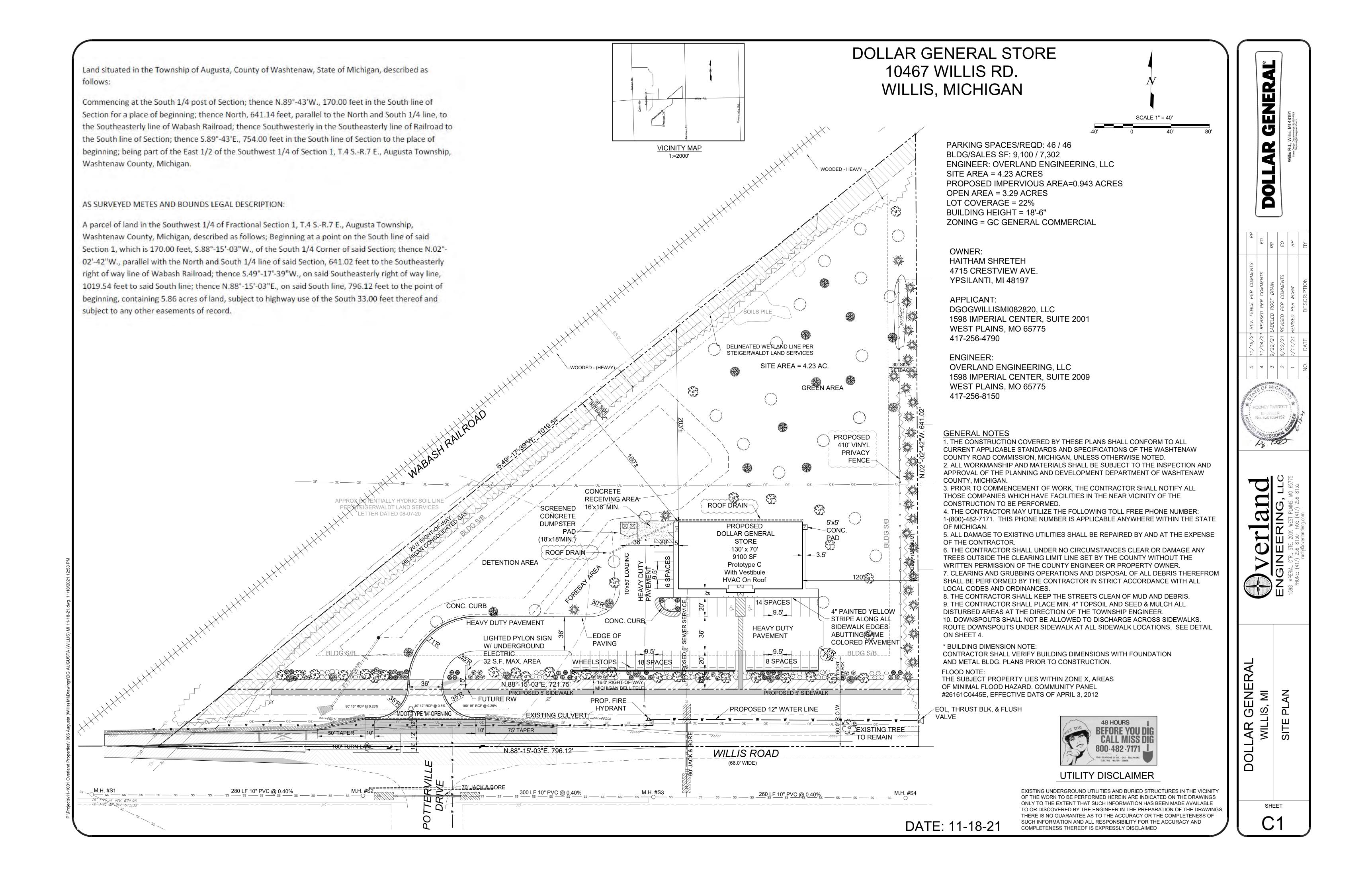
GENERAL

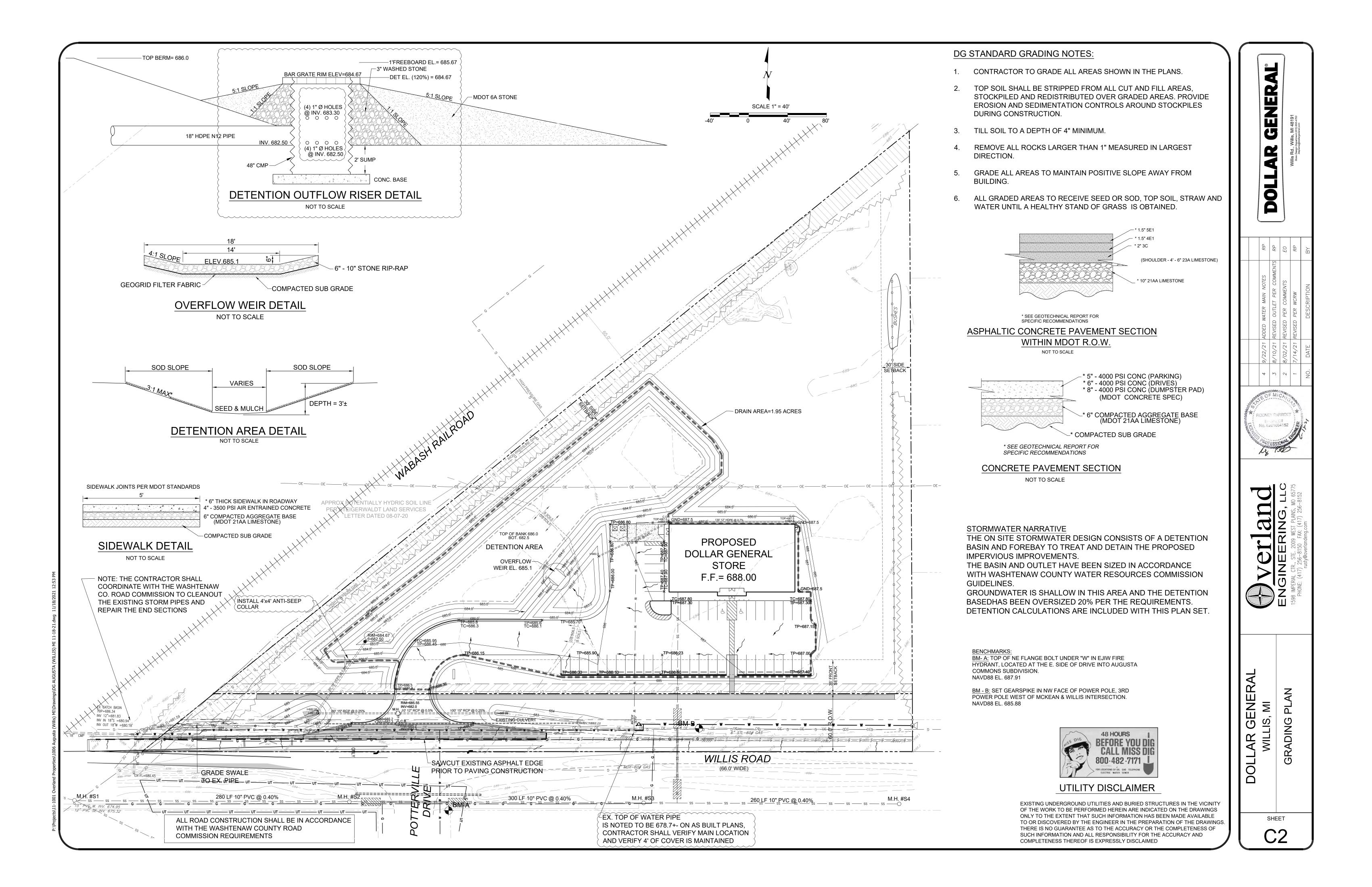
SHEET

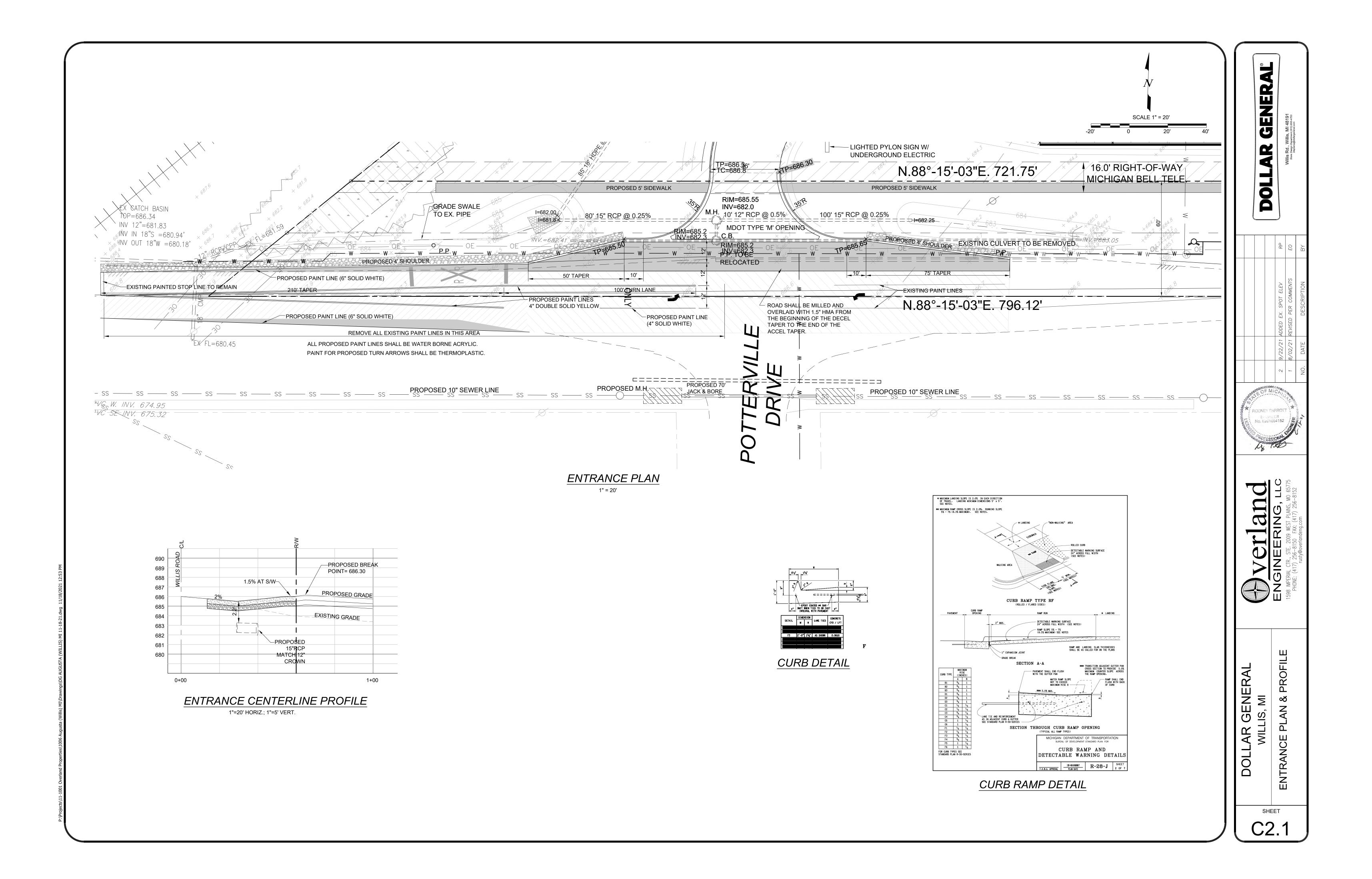
48 HOURS 800-482-7171

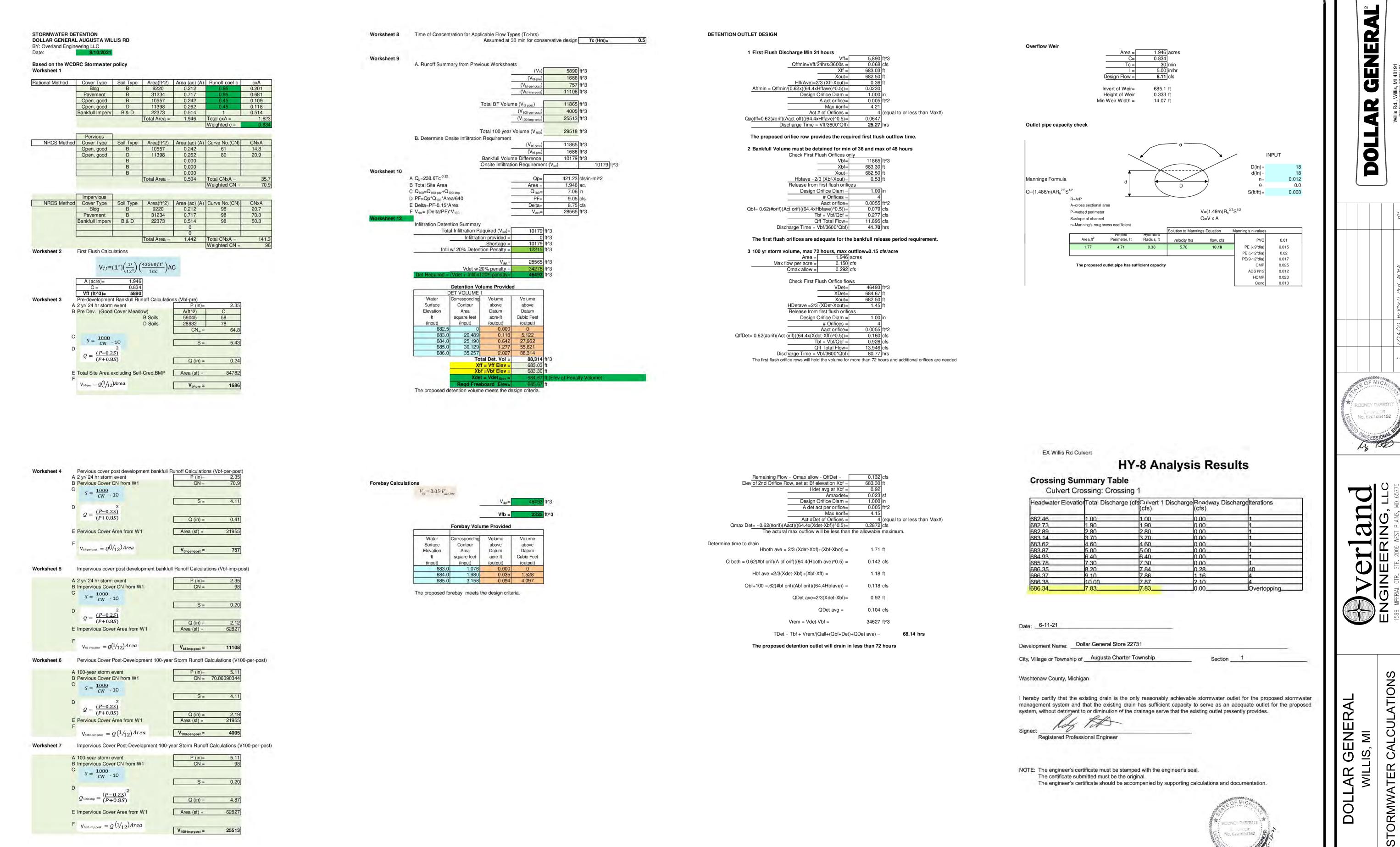
UTILITY DISCLAIMER

EXISTING UNDERGROUND UTILITIES AND BURIED STRUCTURES IN THE VICINITY OF THE WORK TO BE PERFORMED HEREIN ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN THE PREPARATION OF THE DRAWINGS THERE IS NO GUARANTEE AS TO THE ACCURACY OR THE COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED

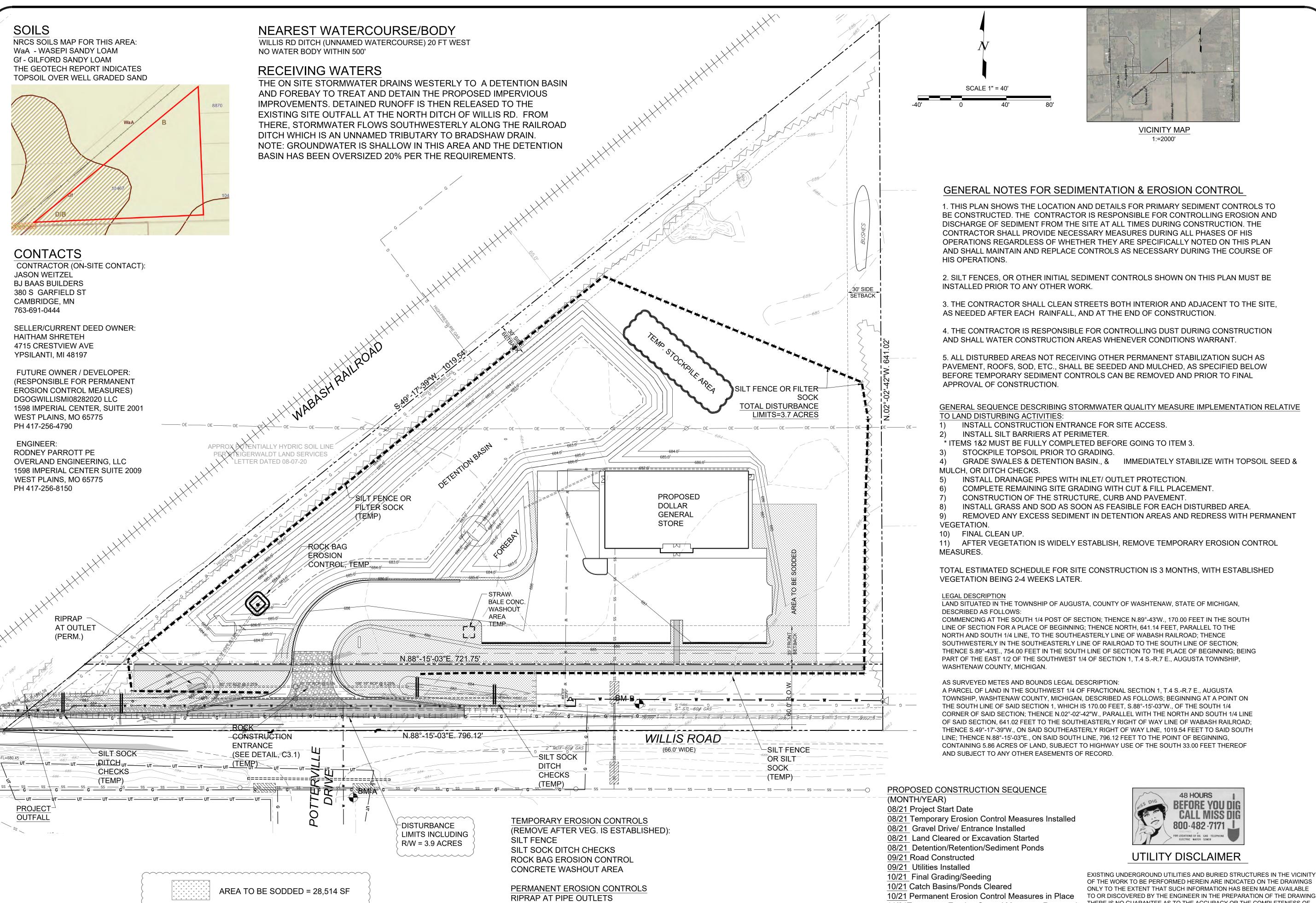








SHEET



SODDING AND GRASS - SEE SHEET C5

1. THIS PLAN SHOWS THE LOCATION AND DETAILS FOR PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF HIS OPERATIONS REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING THE COURSE OF

2. SILT FENCES, OR OTHER INITIAL SEDIMENT CONTROLS SHOWN ON THIS PLAN MUST BE

- 3. THE CONTRACTOR SHALL CLEAN STREETS BOTH INTERIOR AND ADJACENT TO THE SITE,
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING CONSTRUCTION AND SHALL WATER CONSTRUCTION AREAS WHENEVER CONDITIONS WARRANT.

5. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS, SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED BELOW BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL

GENERAL SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE

- GRADE SWALES & DETENTION BASIN., & IMMEDIATELY STABILIZE WITH TOPSOIL SEED &
- REMOVED ANY EXCESS SEDIMENT IN DETENTION AREAS AND REDRESS WITH PERMANENT
- 11) AFTER VEGETATION IS WIDELY ESTABLISH, REMOVE TEMPORARY EROSION CONTROL

TOTAL ESTIMATED SCHEDULE FOR SITE CONSTRUCTION IS 3 MONTHS, WITH ESTABLISHED

LAND SITUATED IN THE TOWNSHIP OF AUGUSTA, COUNTY OF WASHTENAW, STATE OF MICHIGAN,

COMMENCING AT THE SOUTH 1/4 POST OF SECTION; THENCE N.89°-43'W., 170.00 FEET IN THE SOUTH LINE OF SECTION FOR A PLACE OF BEGINNING; THENCE NORTH, 641.14 FEET, PARALLEL TO THE NORTH AND SOUTH 1/4 LINE, TO THE SOUTHEASTERLY LINE OF WABASH RAILROAD; THENCE SOUTHWESTERLY IN THE SOUTHEASTERLY LINE OF RAILROAD TO THE SOUTH LINE OF SECTION: THENCE S.89°-43'E., 754.00 FEET IN THE SOUTH LINE OF SECTION TO THE PLACE OF BEGINNING; BEING

A PARCEL OF LAND IN THE SOUTHWEST 1/4 OF FRACTIONAL SECTION 1, T.4 S.-R.7 E., AUGUSTA TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS; BEGINNING AT A POINT ON THE SOUTH LINE OF SAID SECTION 1, WHICH IS 170.00 FEET, S.88°-15'-03"W., OF THE SOUTH 1/4 CORNER OF SAID SECTION; THENCE N.02°-02'-42"W., PARALLEL WITH THE NORTH AND SOUTH 1/4 LINE OF SAID SECTION, 641.02 FEET TO THE SOUTHEASTERLY RIGHT OF WAY LINE OF WABASH RAILROAD; THENCE S.49°-17'-39"W., ON SAID SOUTHEASTERLY RIGHT OF WAY LINE, 1019.54 FEET TO SAID SOUTH LINE; THENCE N.88°-15'-03"E., ON SAID SOUTH LINE, 796.12 FEET TO THE POINT OF BEGINNING, CONTAINING 5.86 ACRES OF LAND, SUBJECT TO HIGHWAY USE OF THE SOUTH 33.00 FEET THEREOF

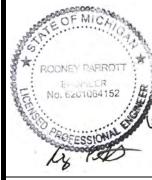
11/21Temporary Erosion Control Measures Removed 11-12/21 Project End Date



UTILITY DISCLAIMER

OF THE WORK TO BE PERFORMED HEREIN ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN THE PREPARATION OF THE DRAWINGS THERE IS NO GUARANTEE AS TO THE ACCURACY OR THE COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED

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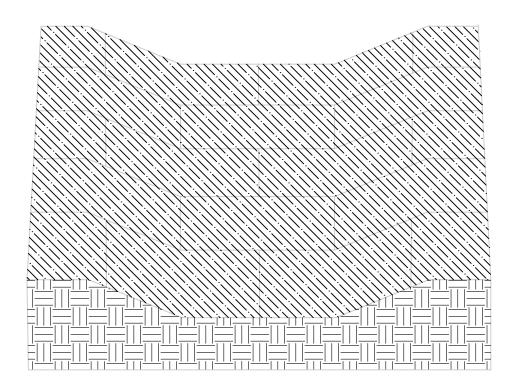
ᅟᆇᆸ SEDIMENTATION SCONTROL F

SHEET

LAY SOD IN A STAGGERED PATTERN WITH STRIPS BUTTED TIGHTLY AGAINST EACH OTHER

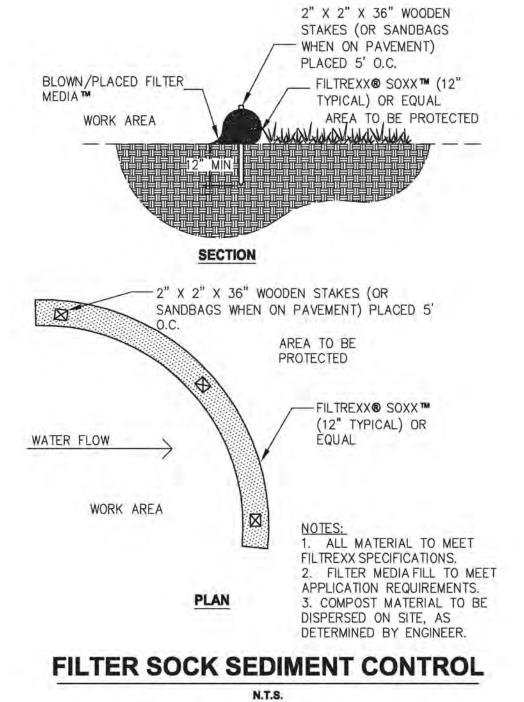
ON SLOPE > 3:1 USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE CORNERS AND CENTERS.

INSTALLATION OF GRASS SOD



LAY SOD PERPENDICULAR TO THE DIRECTION OF FLOW. USE PEGS OR STAPLES TO FASTEN SOD FIRMLY AT THE CORNERS AND CENTERS

INSTALLATION OF SOD IN WATERWAYS



SODDING SPECIFICATIONS

The sodding and related operations may be performed at any time of the year except frozen sod shall not be placed nor shall sod be placed on frozen soil.

2. LIME

Limestone, where required, shall be standard agricultural ground limestone with a moisture content not in excess of 10 percent. The rate of application shall be as necessary to raise pH to a minimum of 6.0..

3. FERTILIZER

The fertilizer shall be a regular commercial fertilizer (including liquid form) meeting the requirements of the applicable state laws, and shall be in such physical condition to insure uniform application over the area to be fertilized. Rates of application shall be as specified by MDOT.

4. SOD

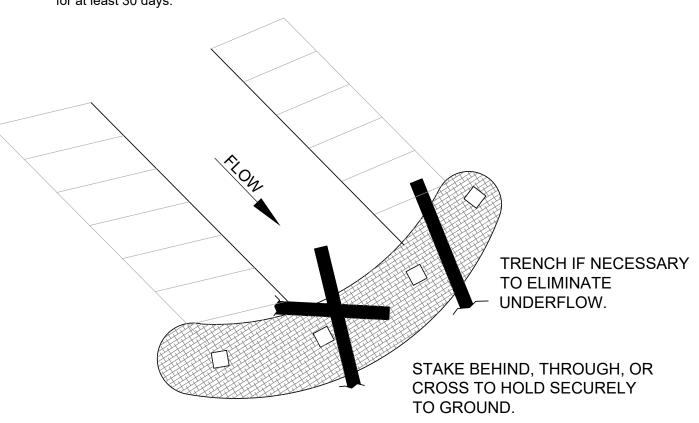
The sod shall consist of strips or blocks of a vigorous growing dense perennial grass turf. The minimum thickness for cultured sod is one inch. The minimum thickness for other grass sod is two inches. The sod shall be sufficiently dense so that when a square 12 x 12 inches is cut to the required thickness and suspended by one corner, it will not tear apart. Sod shall be taken from soils similar to that upon which it is to be placed, except sod from light sand will not be accepted. The sod shall be indigenous to the general locality where it is to be used and shall be reasonably free from weeds. The sod shall be cut in strips of a uniform width, not less than 10 inches, and in lengths of not less than 18 inches. Lay sod within 48 hours of harvest.

5. PREPARING THE SOD BED

The entire surface to be sodded shall be reasonably smooth and free from stones, roots or other debris, and conform to the alignments, grade and cross-section indicated on the drawings. At this stage, unless otherwise specified, the Contractor shall apply the fertilizer and/or lime as required, and mix them with the surface soil material to a depth of 3 inches. Prior to laying the sod, the area to be sodded will be dampened if it is not already in a sufficiently moist condition. The sod bed soil shall be moist, but not saturated, to a minimum depth of six

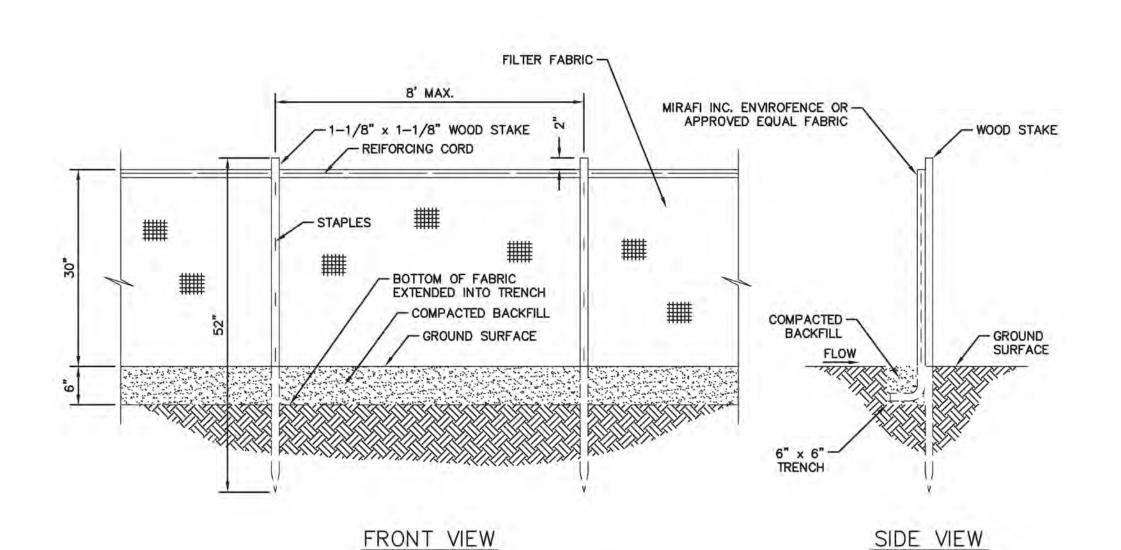
Sod shall be carefully placed and tamped. On slopes steeper than 3 horizontal to 1 vertical, the sod shall be pegged with wooden pegs. The pegs shall be spaced not over 2 feet apart in any direction and shall be driven flush with the surface of the sod.

The Contractor shall maintain the sod in a growing condition by watering when necessary, after completing each part of the sodding work, for at least 30 days.



INSTALL 12" SILT SOCK PERPENDICULAR TO FLOW WITH ENDS CURLED SLIGHTLY UPSTREAM TO PREVENT HIGH WATER FROM GOING AROUND THE ENDS. SLOW AND SPREAD WATER TO REDUCE CHANNELING AND EROSION

SILT SOCK DITCH CHECK



SEDIMENTATION/SILT FENCE

SEEDING AND MULCHING SPECIFICATIONS

1. GENERAL

Liming, fertilizing, seeding and mulching shall be performed within 20 days from disturbance any time during the year except during the period October 1 to November 1 South of US 10, September 20 to October 25 North of US 10 and any other time of the year that the seedbed cannot be properly prepared due to wetness, snow or frozen soil.

2. FERTILIZER AND LIME

Lime shall be standard agricultural ground limestone. Fertilizer shall meet the requirements of the applicable Michigan state laws, and shall be in such physical condition to insure uniform application over the area to be fertilized. Lime is required only as necessary to adjust pH to a minimum of 6.0. Fertilizer shall be applied at the rate specified by MDOT for TGM seed mixture.

3. SEED

The seed shall conform to the latest seed laws of the United States and of Michigan. Seed mixture shall be MDOT TGM mixture, and rate of seeding shall be 220 pounds per acre or per MDOT specifications.

4. PREPARATION OF SEEDBED

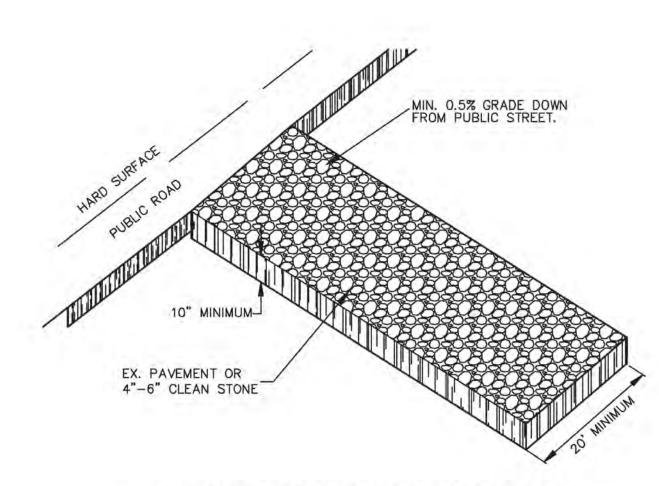
The entire area to be seeded shall be reasonably smooth and all washes and gullies shall be filled to conform to the desired cross-section before actual seedbed preparation is begun. Scarify subsoil areas perpendicular to water flow before they are filled. After final grading, the required fertilizer (except that applied with a hydraulic seeding) and/or lime shall be applied uniformly and incorporated into the top 3 inches of the soil. The seedbed preparation operation shall be suspended when the soil is too wet or too dry. On side slopes steeper than 3:1, the 3 inch minimum depth of seedbed preparation is not

required, but the soil shall be worked enough to insure sufficient loose soil to provide adequate seed cover.

5. SOWING THE SEED

Seed immediately after preparation of the seedbed. Uniform seed distribution shall be accomplished by drilling, broadcasting or hydraulically seeding. If a hydraulic seeder is used, the seed, fertilizer and mulch may be applied together with water. Immediately after seeding, except in the case of hydraulic seeding, the soil shall be firmed with a cultipacker or other approved equipment to give the seed a cover of not more than 1/2 inch. Where broadcast seeding, the seed will be covered by use of hand rake or by dragging harrows, chains, or other suitable equipment over the surface or mulch to cover the seed. On slopes steeper than 3:1, the seed may be covered by hand without cultipacking.

The required mulching shall be performed with hydraulic seeding or immediately after seeding. The mulch shall be applied uniformly over the area. The type and rate shall be 2 tons per acre. The mulch, except for hydraulically placed mulch, shall be anchored. Anchoring of the mulch shall be performed by application of a commercially available tackifier at the rate recommended by the manufacturer, a mulch anchoring tool, tandem disk weighted and set nearly straight, track type tractor, or by installation of mulch netting. Mechanical anchoring shall be performed in a manner that creates ridges perpendicular to flow of water.



CONSTRUCTION ENTRANCE

N.T.S.

PERMANENT MAINTENANCE SCHEDULE	CURB & PAVED AREAS	STORM PIPE INLETS & OUTLETS	FOREBAY AREA	DETENTION OUTLET STRUCT.	ROADSIDE DITCH ADJACENT	SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION						QUARTERLY
REMOVE SEDIMENT ACCUMULATION	X					AS NEEDED*
INSPECT FOR TRASH/FLOATABLE ACCUMULATION	X					QUARTERLY
REMOVE TRASH/FLOATABLE ACCUMULATION	X					AS NEEDED*
INSPECT FOR ANY BARE SOILS/EROSION/DEAD VEG.						SEMI ANNUALLY
RE-ESTABLISH PERMANENT VEG./LANDSCAPING						AS NEEDED
CLEAN DRIVES/PARKING LOTS/TRASH ENCLOSURES	X					QUARTERLY
INSPECT WET WEATHER PERFORMANCE OF PIPE & OUTLET STRUCTURE		X		X		SEMI ANNUALLY*
CONTACT PROFESSIONAL ENGINEER TO CARRY OUT EMERGENCY INSPECTIONS						AS NEEDED

** NOTE: NO CHEMICALS ARE ALLOWED IN STORMWATER FEATURES OR BUFFER ZONES WITH THE FOLLOWING EXCEPTION: INVASIVE SPECIES MAY BE TREATED WITH CHEMICALS BY A CERTIFIED APPLICATOR. MOWING WITHIN THE BASIN AND BUFFER AREAS IS ALLOWED UP TO TWICE PER YEAR.

COST FOR PERMANENT MAINTENANCE IS THE RESPONSIBILITY OF THE PROPERTY OWNER. ESTIMATE ANNUAL COST IS EXPECTED TO BE LESS THAN \$1500 ON

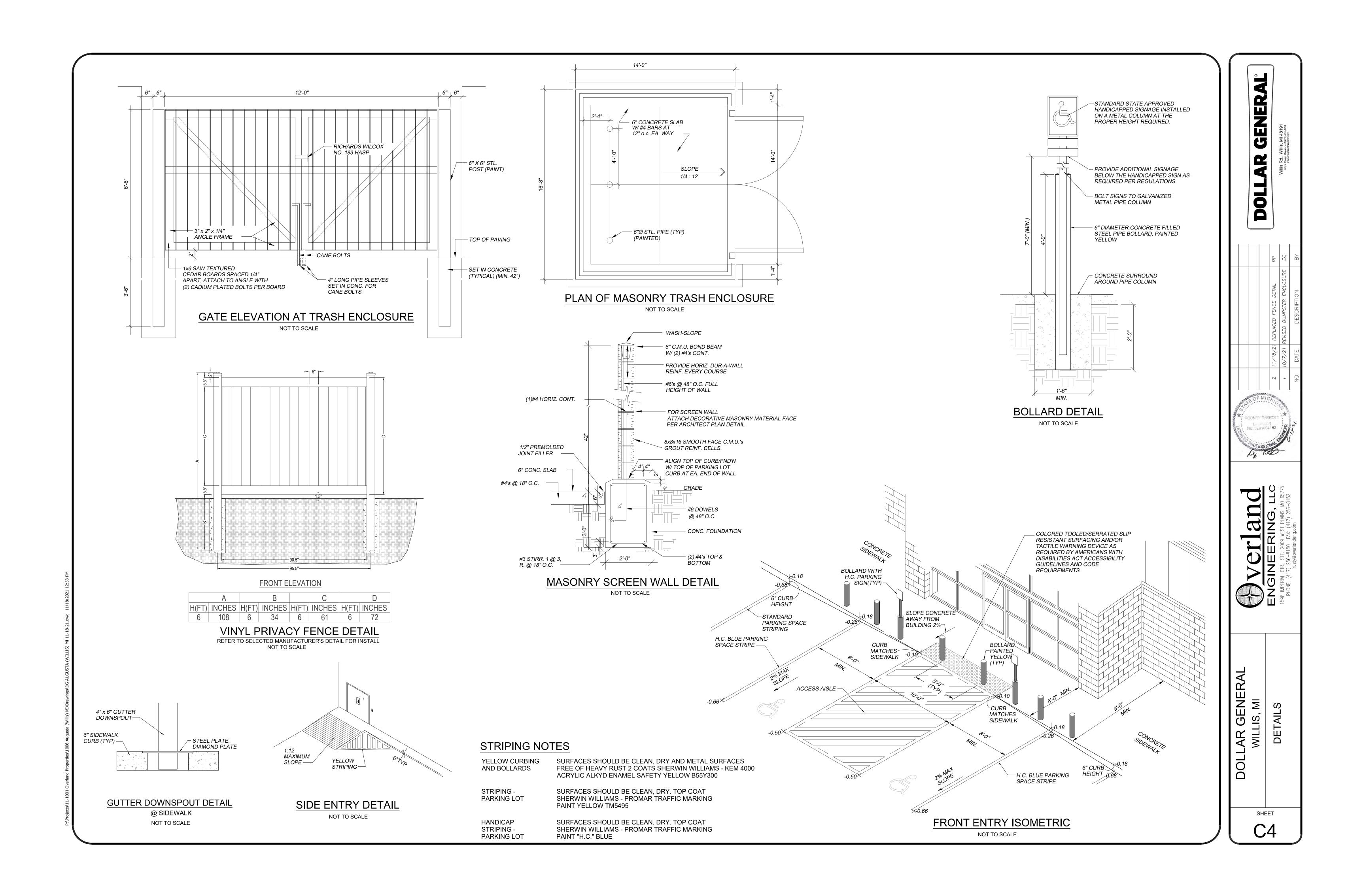
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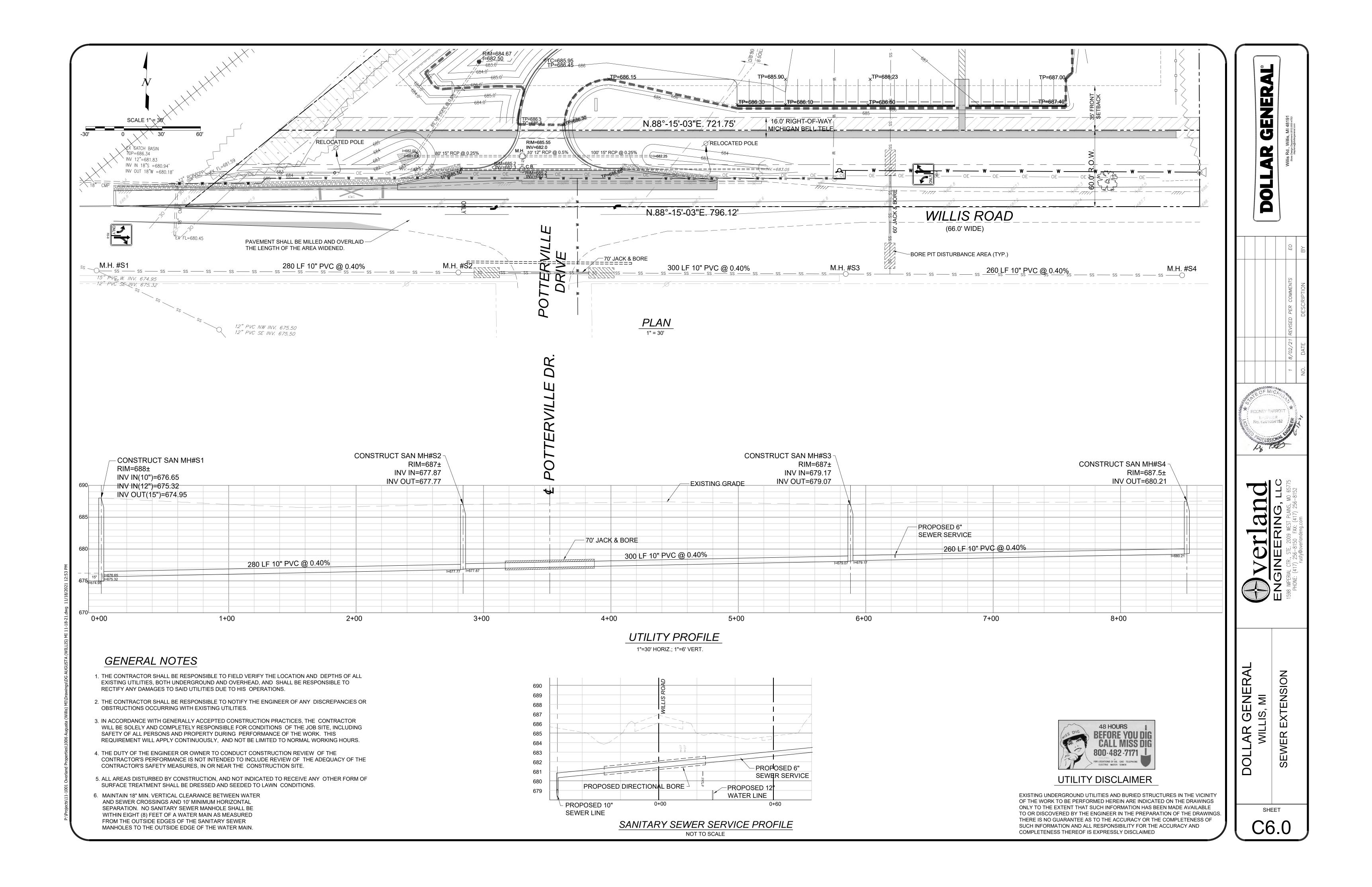
SEDIMENTATION CONTROL DETAIL

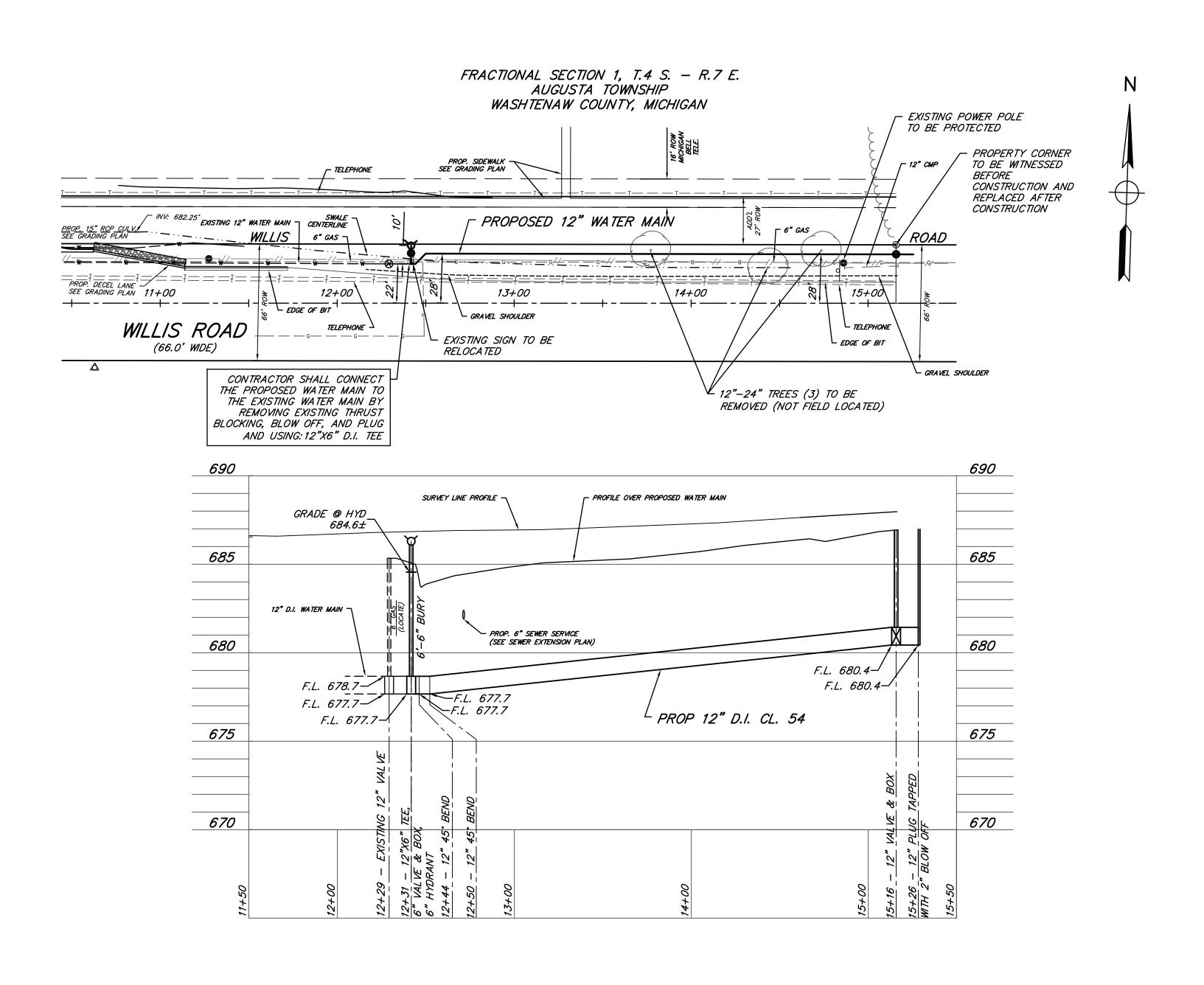
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THERE IS NO GUARANTEE AS TO THE ACCURACY OR THE COMPLETENESS OF SUCH INFORMATION AND ALL RESPONSIBILITY FOR THE ACCURACY AND

COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED





NOTE: EXISTING WATER MAIN LOCATION WAS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO FIELD VERIFY.

BY MARK REVISIONS THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

DOLLAR GENERAL WATER MAIN EXTENSION AUGUSTA TOWNSHIP, MI

WATER PLAN AND PROFILE WILLIS ROAD

230' E OF POTTERVILLE DRIVE TO 170' W OF MCKEAN ROAD

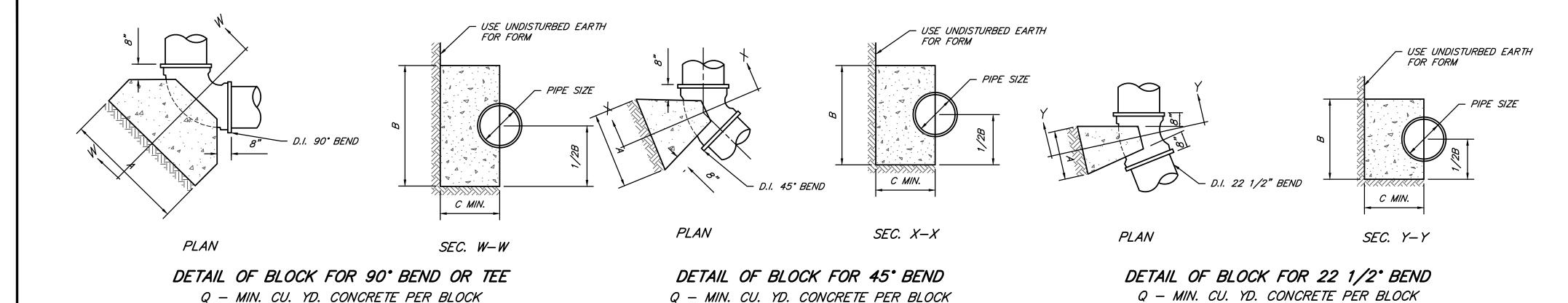


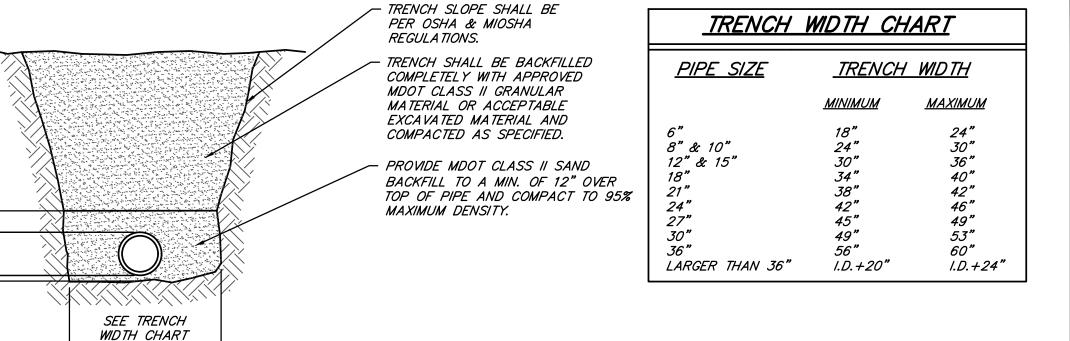
DUNDEE OFFICE 125 Helle Blvd, Suite 2 Dundee, MI 48131 Tel. 734—823—3308 www.SpicerGroup.com

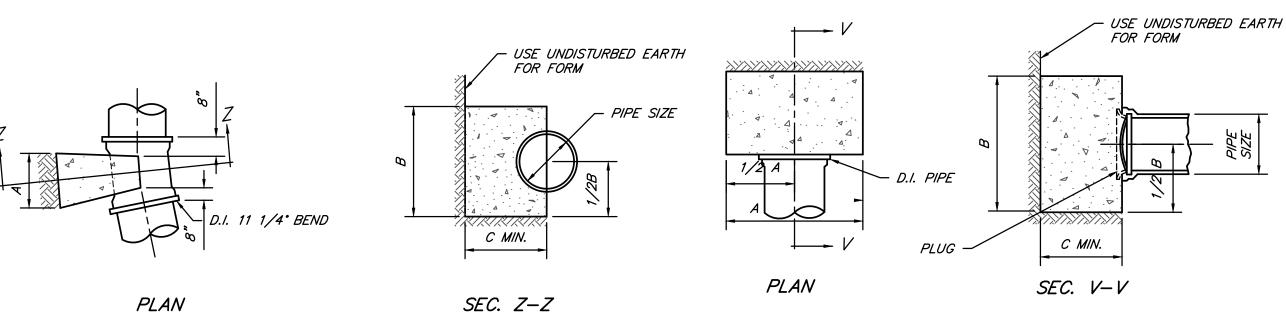
DE. BY: *TCA* CH. BY: *BKP* DR. BY: *EMJ* APP. BY: *TCA*

PROJECT NO. **129777SG2020** STDS. *DW-1556* SHEET 1 OF 1

DATE NOVEMBER 2021 | FILE NO. | DW-4770-01 | 01







DETAIL OF BLOCK FOR 11 1/4° BEND

Q - MIN. CU. YD. CONCRETE PER BLOCK

CONCRETE BLOCK

3'-0" MIN.

DETAIL OF SETTING HYDRANT

VARIES

BEND OR TEE

PLACE 4"x8"x16"

CONCRETE BLOCK

DETAIL OF BLOCK FOR PLUG
Q — MIN. CU. YD. CONCRETE PER BLOCK

PLACE 4"x8"x16"

DETAIL OF

SETTING OF VALVE BOXES

CONCRETE BLOCK

LIMESTONE TO UNDISTURBED

VALVE OR VALVE BOX BASE,

WHICHEVER IS GREATER

EARTH NOT LESS THAN LENGTH OF

0,05 0,75	<i>90</i> °	BEND	OR	TEE		45° B	PEND		22	1/2	* BEN	D	11	1/4°	BENI	9		PLU	<i>IG</i>	
PIPE SIZE	Α	В	С	Q	Α	В	С	Q	Α	В	С	Q	Α	В	С	Q	Α	В	С	Q
6",8" & 10"	3'-0"	2'-0"	1'-3"	0.3	2'-0"	1'-6"	1'-3"	0.1	1'-6"	1'-0"	1'-3"	0.1	1'-0"	1'-0"	1'-3"	0.1	2'-0"	2'-0"	1'-6"	0.2
12"	3'-0"	2'-6"	1'-6"	0.4	2'-0"	2'-0"	1'-6"	0.2	2'-0"	1'-0"	1'-6"	0.1	1'-0"	1'-0"	1'-6"	0.1	2'-0"	2'-6"	1'-6"	0.3
16"	4'-0"	3'-0"	2'-0"	0.9	3'-0"	3'-0"	2'-0"	0.5	2'-0"	2'-0"	2'-0"	0.2	1'-0"	2'-0"	2'-0"	0.1	3'-0"	3'-6"	1'-9"	0.7
20"	<i>5'-0"</i>	4'-6"	2'-6"	1.23	4'-0"	3'-0"	2'-6"	0.82	3'-0"	2'-6"	2'-6"	0.58	2'-0"	1'–10"	2'-6"	0.3	4'-0"	4'-0"	2'-6"	1.4.
24"	6'-0"	5'-6 "	3'-0"	2.74	4'-0"	4'-0"	3'-0"	1.21	3'-0"	3'-0"	3'-0"	0.8	2'-6"	2'-2"	3'-0"	0.42	5'-0"	<i>5'-0"</i>	3'-0"	2.7
<i>30"</i>	7'-0"	7'-0"	3'-9"	5.39	5'-6"	<i>5'-0"</i>	3'-9"	2.14	4'-0"	3'-0"	3'-9"	1.35	3'-0"	2'-8"	3'-9"	0.98	6'-0"	6'-0"	3'-9"	4.9
<i>36"</i>	8'-0"	7'-6"	4'-6"	8.12	6'-0"	6'-0"	4'-6"	4.03	5'-0"	4'-0"	4'-6"	2.77	3'-0"	3'-2"	4'-6"	1.36	8'-0"	6'-0"	4'-6"	8.0
42"	9'-0"	8'-0"	<i>5'-3"</i>	11.58	7'-7"	7'-0"	5'-3"	6.43	<i>5'-0"</i>	<i>5'-0"</i>	5'-3"	3.85	4'-0"	3'-9"	5'-3"	2.17	8'-0"	8'-0"	<i>5'-3"</i>	12.4

TRENCH DETAIL

NOT

PIPE RESTRAINT SCHEDULE FOR GROUND BURIED PRESSURE PIPES

20

32

37

47

53

58

68

82

95

107

118

LENGTH (L) OF RESTRAINT REQUIRED (IN FEET)

33–3/4° *45*°

24

27

30

20 25

29

33

83

92

11-1/4°

22-1/2

ANGLE

PIPE

10"

16"

20"

24"

42"

THE CONTRACTOR SHALL SECURE ALL MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS IN ADDITION TO THRUST BLOCKING RETAINER GLANDS SHALL BE MEGA—LUG AS MANUFACTURED BY EBAA IRON OR APPROVED EQUAL

ALTERNATE FOR HYDRANTS: TWO 3/4" THREADED RESTRAINING RODS MAY BE USED AT HYDRANTS IN ADDITION TO ALL BLOCKING. RODS SHALL RECEIVE A MINIMUM DRY FILM OF 15 MILS (DTM) OF COAL TAR EPOXY. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH HYDRANT INSTALLED.

WRAP ALL FITTINGS, VALVES, HYDRANTS, AND ALL D.I. PIPE IN 8 MIL POLYETHYLENE SHEET PER AWWA C105

THE CONCRETE USED FOR BLOCKING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI IN 28 DAYS.

56-1/4 67-1/2 78-3/4 90°, TEE,

47

54

60

67

73

102

119

133

148

49

57

66

74

82

90

105

126

146

164

181

OR DEAD END

59

77

93

109

125

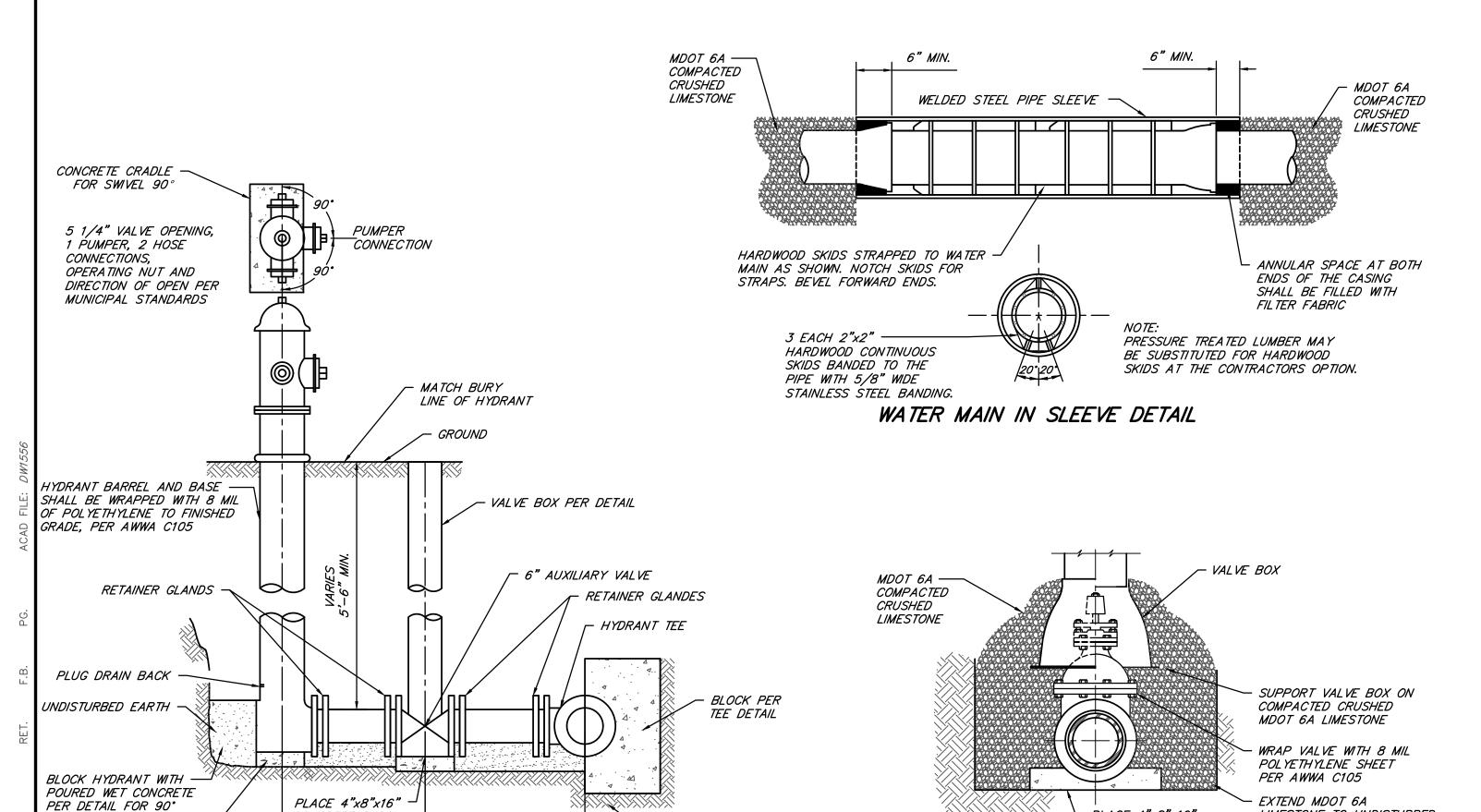
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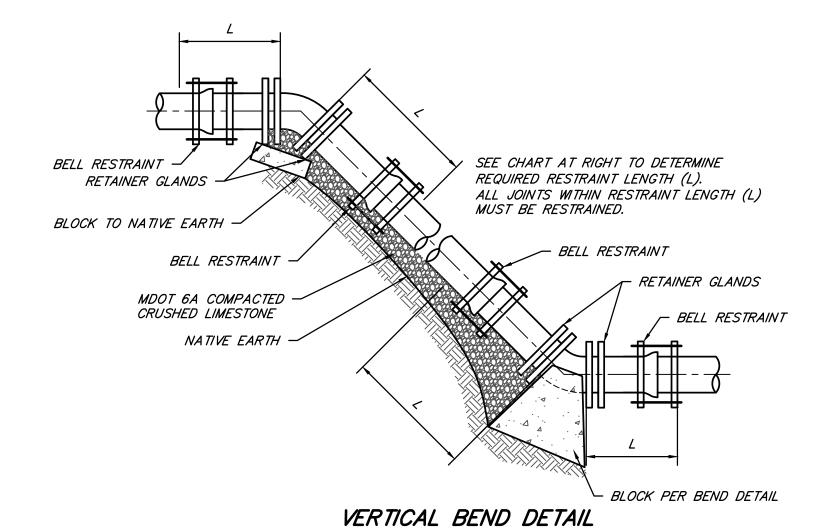
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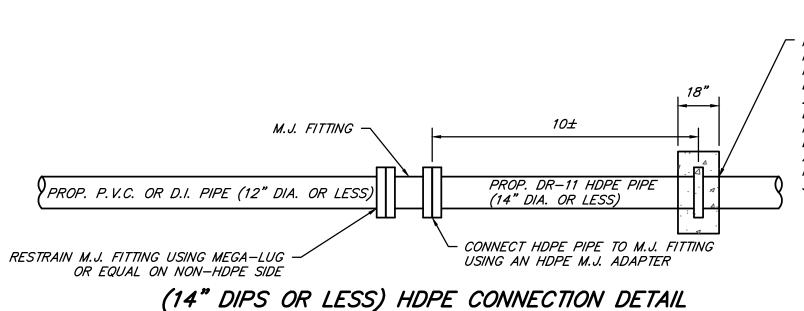
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NATIVE EARTH





PROVIDE 36"x36"x18" ANCHOR BLOCK APPROX 10'
FROM CONNECTION TO OTHER PIPE MATERIAL,
M.J. FITTING, OR MANHOLE. ANCHOR BLOCK SHALL
BE FORMED WITH PLYWOOD AND USE 3500 PSI @
28 DAYS CONCRETE. HDPE ANCHOR RING SHALL
BE FULLY FUSED OR INTEGRALLY FORMED TO THE
HDPE PIPE. FLEX RESTRAINT AS MANUFACTURED
BY CENTRAL PLASTICS IS AN ACCEPTABLE
ANCHORING DEVICE. THE TYPE AND NUMBER OF
RESTRAINT DEVICES SHALL BE SUBMITTED PER
SECTION 01 33 00 OF THE SPECIFICATIONS

NRP REVISIONS 8-21-17 BY MARK REVISIONS DATE THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE					
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS	NRP		REVISIONS		8-21-17
	BY	MARK	REVISIONS		DATE
WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.	SPECIFIC WITH TH DOES N	APPLICATION AND SPE CONDITIONS PREVALEN GUARANTEE AND WIL	CIFIC LOCATION DESCRIBED HER NT AT THE TIME THE DESIGN W	REON IN ACCOR AS DONE. THE	DANCE ENGINEER

STANDARD WATER MAIN DETAILS

WATER MAIN STANDARD DETAILS



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230 S. Washington Ave.
Saginaw, MI 48607
Tel. 989-754-4717
Fax. 989-754-4440
www.SpicerGroup.com

DE. BY: SGI CH. BY: SGI PROJECT NO.
DR. BY: SGI APP. BY: SGI

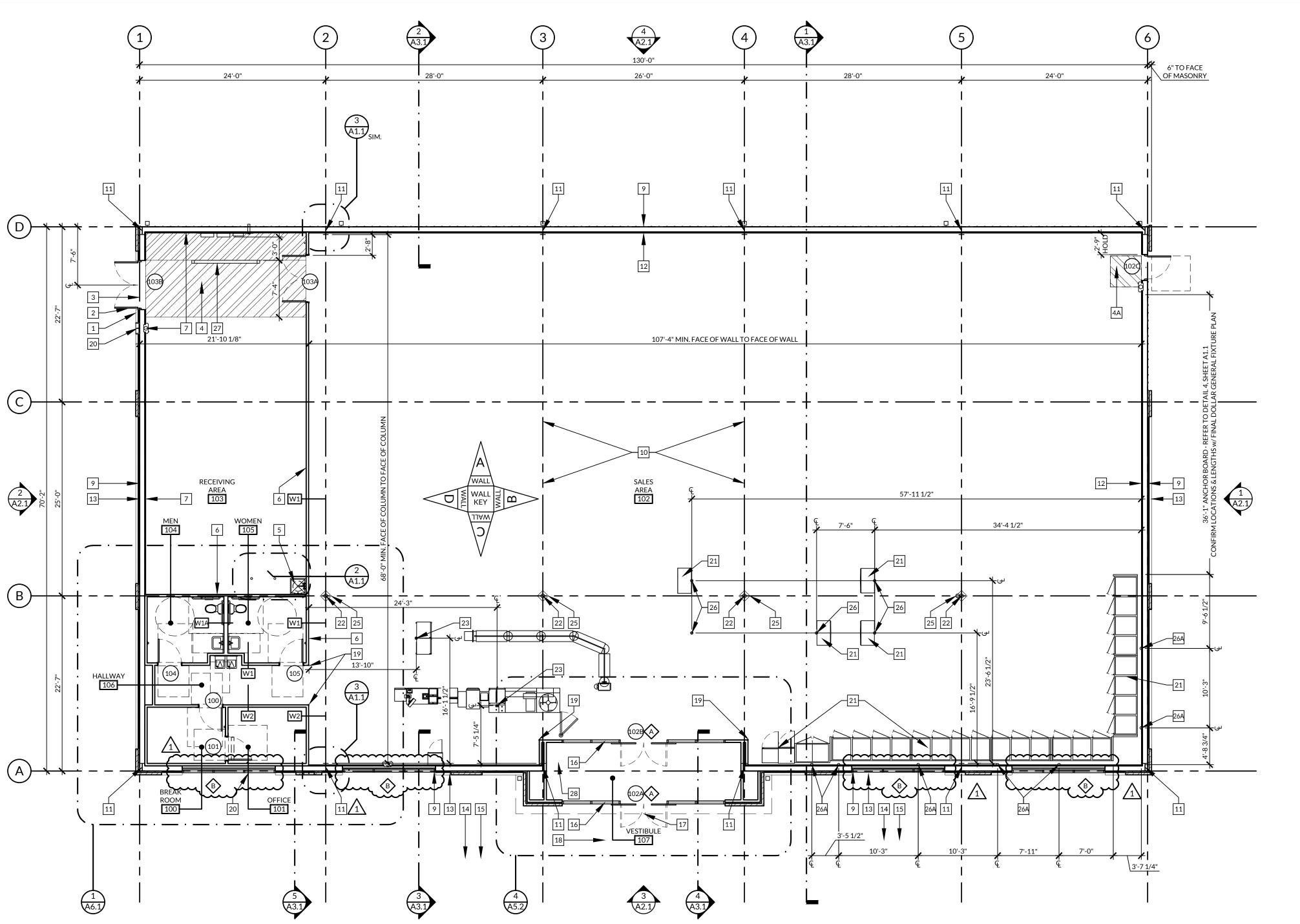
STDS. SHEET 1 OF 1

DATE FEBRUARY, 2006
SCALE NOT TO SCALE

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PROJECT NO.

DATE OF 1



GENERAL NOTES

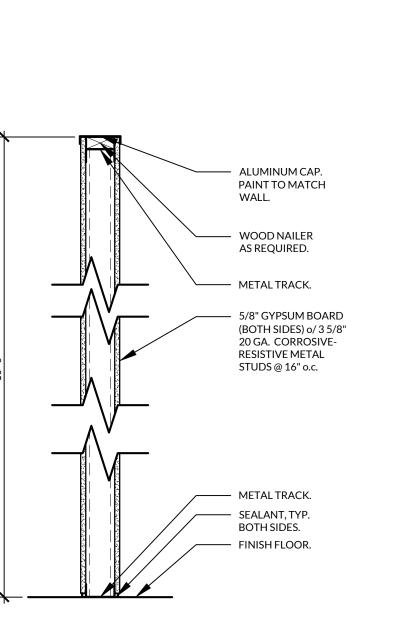
- 1. ALL CONSTRUCTION SHALL ABIDE BY ALL LOCAL CODES & ORDINANCES SET FORTH BY THE LOCAL GOVERNING AUTHORITY.
- NOTIFY THE ARCHITECT IF QUESTIONABLE or UNFORESEEN CONDITIONS ARE ENCOUNTERED or IF CONDITIONS DIFFER FROM WHAT IS SHOWN or NOTED IN THE
- 3. DO NOT SCALE THE DRAWINGS. CONTACT THE ARCHITECT OF RECORD IF THERE IS A DISCREPANCY w/ DIMENSIONS. DIMENSIONAL DATA SHALL BE OBTAINED FROM WRITTEN INFORMATION ONLY. VERIFY ALL DIMENSIONS BEFORE PROCEEDING, ANY DIMENSIONAL DEVIATION FROM THAT SHOWN ON THE DRAWINGS, WHICH MAY AFFECT INTENT OF DESIGN or PROPER INCORPORATION OF ELEMENTS, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PROMPTLY & RESOLUTION OBTAINED BEFORE PROCEEDING.
- 4. ARCHITECTURAL DIMENSIONS ARE GIVEN FROM FACE OF STUDS, CONCRETE, MASONRY, or COLUMN GRID LINES UNLESS NOTED OTHERWISE.
- 5. EXTERIOR DIMENSIONS ARE GIVEN TO FACE OF WALL, COLUMN GRID LINES, MID POINT OF OPENINGS or FACE OF STUDS UNLESS NOTED OTHERWISE.
- MINIMUM SALES AREA CLEAR DIMENSIONS TO BE MAINTAINED. CONCRETE SLAB & PRE-ENGINEERED METAL BUILDING TO BE DESIGNED TO ACCOMMODATE THESE
- METAL BUILDING COLUMNS SHALL BE STRAIGHT. TAPERED COLUMNS REQUIRE WRITTEN APPROVAL FROM DOLLAR GENERAL ARCHITECTURAL & ENGINEERING DEPARTMENT. MAINTAIN INTERIOR CLEARANCE OF 68'-0" BETWEEN FACE OF COLUMNS ON SALES FLOOR.
- 8. FINISH FLOOR ELEVATION SHALL BE REFERENCED AS 100'-0".
- 9. PATCH & REPAIR ANY DAMAGE INCURRED DURING CONSTRUCTION.
- 10. CONTRACTOR RESPONSIBLE FOR TEMPORARY & PERMANENT SHORING & STABILIZATION OF ALL WALLS, FLOORS, & ROOFS.
- 11. GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL, ELECTRICAL, & PLUMBING WORK, & PROVIDE ALL NECESSARY CONSTRUCTION TO FACILITATE SAID WORK INCLUDING, BUT NOT LIMITED TO ROUGH OPENINGS, EQUIPMENT SUPPORTS, BACKING & COORDINATION OF FINISH WORK, & UTILITY LOCATIONS & CONNECTIONS, WHETHER or NOT SPECIFICALLY INDICATED ON CONTRACT DOCUMENTS.
- 12. EXTEND ALL INTERIOR PARTITIONS TO BOTTOM OF DECK or TO BOTTOM OF STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE, MUST ALLOW FOR 2" DEFLECTION; PROVIDE DEFLECTION TRACK TO UNDERSIDE OF DECK.
- 13. FOR PARTITION TYPES NOT SHOWN, REFER TO RELATED BUILDING SECTIONS.
- 14. PROVIDE BLOCKING AS REQUIRED BETWEEN STUDS IN ALL RESTROOMS FOR GRAB BARS, MIRRORS, ACCESSORIES, & ANY OTHER ATTACHMENTS.
- 15. ALL HEADERS OVER DOORS or OTHER OPENINGS UP TO 5'-0" WIDE SHALL BE 6" TALL METAL STUD BOX HEAD UNLESS NOTED OTHERWISE.
- 16. ALL TOILET ROOMS SHALL HAVE WATER RESISTANT GYPSUM BOARD ON ALL
- 17. PROVIDE FIBERGLASS REINFORCED PANEL AT MOP SINK LOCATION TO HEIGHT OF 4'-0". EXTEND 2'-0" MINIMUM HORIZONTALLY PAST FIXTURE.
- 18. ADDITIONAL REGISTERS MAY BE REQUIRED IF THE ANNUAL SALES PROJECTION EXCEEDS THE PERFORMANCE OF A STANDARD STORE. COORDINATE THE FINAL LOCATION & AMOUNT OF REGISTERS w/ THE FINAL APPROVED FIXTURE PLAN.
- 19. FOR ALL EXTERIOR SIDEWALKS, H.C. ACCESSIBLE RAMPS, PIPE BOLLARDS, ETC. CIVIL DRAWINGS TO TAKE PRECEDENCE.
- 20. ALL WOOD BLOCKING, FRAMING, & SHEATHING TO BE FIRE-RETARDANT TREATED. 21. GENERAL CONTRACTOR SHALL PROVIDE A PORTABLE FIRE EXTINGUISHER IN EVERY
- CONSTRUCTION TRAILER, SHED, or SHIPPING ON THE PROJECT SITE DURING CONSTRUCTION.

FLOOR PLAN KEYNOTES

- RECEIVING DOOR BUZZER TORK MDL.#TA725 or EQUAL.
- DOOR SCOPE. REFER TO A1.0 & DOOR SCHEDULE.

☐ A1.0 & DOOR SCHEDULE.

- WEATHER STRIP & LOW PROFILE THRESHOLD PROVIDED BY BASS SECURITY. SEE TO
- 4 STRIPE FLOOR FOR DESIGNATED EGRESS PATH (PAINT YELLOW) & 3'-0" DESIGNATED
- ☐ EMS PANEL CLEARANCE (PAINT RED). STRIPE FLOOR FOR DESIGNATED EGRESS PATH (PAINT YELLOW).
- PROVIDE & INSTALL WATER HEATER (MINIMUM 10 GALLON) ABOVE THE MOP SINK.
- REFER TO PLUMBING DRAWINGS FOR ACTUAL SIZE & SPECS. 3 5/8" METAL STUD w/ 5/8" GYPSUM BOARD (BOTH SIDES). REFER TO NOTED WALL SECTION. REFER TO ROOM FINISH SCHEDULE FOR GYPSUM BOARD HEIGHT AT ANY
- METAL LINER PANELS TO 8'-0" A.F.F. (BY PRE-ENGINEERED BUILDING MANUFACTURER).
- METAL BUILDING PANELS (BY PRE-ENGINEERED BUILDING MANUFACTURER). PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0".
- CONCRETE SLAB w/ 6x6xW1.4 WELDED WIRE MESH OVER POLYETHYLENE VAPOR
- BARRIER (MIN. 10 MM THICK) OVER CRUSHED STONE BASE, TYPICAL. PROVIDE CONTROL JOINTS AS SHOWN ON STRUCTURAL DRAWINGS.
- 11 METAL BUILDING FRAME. REFER TO NOTED WALL SECTION & STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 5/8" GYPSUM BOARD (TO 10'-0" A.F.F.) OVER METAL LINER PANELS & INSULATION w/ VAPOR BARRIER.
- 4" MASONRY or NICHIHA PANEL o/ METAL BUILDING PANELS. REFER TO EXTERIOR
- ELEVATIONS. PROVIDE PROPER ANCHORAGE TO STRUCTURE. SLOPE CONCRETE 1/8" PER FOOT AWAY FROM BUILDING. REFER TO CIVIL DRAWINGS
- FOR EXACT LAYOUT & DIMENSIONS.
- 15 BROOM FINISH CONCRETE SIDEWALK, TYPICAL (NOT SHOWN). COORDINATE w/ CIVIL DRAWINGS FOR EXACT LAYOUT & DIMENSIONS.
- STOREFRONT SYSTEM. REFER TO DOOR & WINDOW SCHEDULE & TO NOTED WALL
- SECTION FOR ADDITIONAL INFORMATION. CONTINUE GYPSUM BOARD ABOVE STOREFRONT TO DECK.
- LINE OF SOFFIT or CANOPY ABOVE.
- 18 APPROXIMATE LOCATION OF A.D.A. COMPLIANT ACCESSIBLE RAMP (NOT SHOWN) w/ YELLOW PAINTED SIDES TO ACCESSIBLE PARKING STALLS. COORDINATE w/ CIVIL DRAWINGS FOR LOCATION, DIMENSIONS, & DETAILS.
- MC CUE CART & BUMPER GUARDS. TOP INSTALLED @ 3'-5" A.F.F. ORDER TRIM KIT FOR THIS PROTOTYPE (PROTOTYPE "C").
- WALL HYDRANT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. REFRIGERATION BY DOLLAR GENERAL.
- ROUND PIPE STEEL COLUMN w/ RECESSED BASE PLATE. PAINT SW7005 PURE WHITE. WRAP STEEL COLUMN w/ TIGHT LOOP CARPET (BLACK) FROM BASE TO 48" A.F.F.
- POWER POLE. COORDINATE FINAL LOCATION w/ ELECTRICAL DRAWINGS & FINAL DOLLAR GENERAL FIXTURE PLAN.
- CONTROL JOINTS ARE TO BE PLACED ALONG COLUMN LINES & MID POINT BETWEEN COLUMN LINES. COORDINATE w/ STRUCTURAL DRAWINGS. (NOT SHOWN ON ARCHITECTURAL PLAN).
- FLOOR AREA AT BASE OF COLUMNS, WITHIN THE CONSTRUCTION JOINTS, TO BE PAINTED BLACK MAGIC TINT.
- ENDCAP COOLER/FREEZER & DISPLAY LIGHTING AS NEEDED TO BE HARDWIRED THROUGH WHITE SO CORD. G.C. TO LEAVE BOTTOM HANGING AT 80" A.F.F. REFER TO ELECTRICAL DRAWINGS. CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION w/ FINAL DOLLAR GENERAL FIXTURE PLAN.
- WALL OUTLETS FOR BANKS OF COOLERS & FREEZERS & COSMETICS VALANCE. REFER TO ELECTRICAL DRAWINGS.
- McCUE RAILING IN FRONT OF ELECTRICAL PANELS. 8'-0" LONG w/ TOP TWO RAILINGS & NO MIDDLE POST.
- 28 CART AREA.



WALL TYPES ROOF CONSTRUCTION SEALANT, TYP. BY PRE-ENGINEERED BOTH SIDES. BUILDING MANUFACTURER. **GALVANIZED META** RUNNER. FASTEN TO DECK @ 24" o.c. - CONTINUOUS DEFLECTION RUNNER. 5/8" TYPE GYPSUM BOARD o/ 3 5/8", 20 GA. METAL STUDS @ 16" o.c. (USE MOISTURE RESISTANT TYPE "X" GYPSUM **BOARD AT WET LOCATIONS.)** GYPSUM BOARD TO RUN TO UNDERSIDE OF DECK ABOVE or TO 6" ABOVE CEILINGS. GRID WHERE APPLICABLE. REFER TO REFLECTED CEILING PLAN. R-13 INSULATION AT TOILET ROOM WALL. - METALTRACK. - SEALANT, TYP. BOTH SIDES. FINISH FLOOR.

- DO NOT FASTEN GYPSUM BOARD WITHIN 2" OF BOTTOM OF SLIP TRACK. IN PLACE OF CONTINUOUS SLIP TRACK, METAL STUD CONTRACTOR MAY USE "VERTICLIP" BRAND SLIP CONNECTION TO STRUCTURE.
- 3. SCREW ANCHORS SHALL NOT EXTEND BEYOND TOP OF DECK ELEVATION.

6" 20 GA. METAL STUD WALL • TYPICAL

3 5/8" 20 GA. METAL STUD WALL OFFICE & BREAK ROOM

FLOOR PLAN & DETAILS

ARCHITECT

ARCHITECT OF RECORD:

ARCHITECTURAL LICENSE #:

KYLE W. RADER

1301062638

PROJECT NUMBER:

20264 · DGAM

REV001 JULY 26, 2021

DATE: APRIL 01, 2020

) DETAIL AT COLUMN

4'-0" x 48" H. FRP PANEL. MOP SINK PER

PLUMBING FIXTURE SCHEDULE.

WATER HEATER ON SHELF ABOVE

MOP SINK. REFER_

TO PLUMBING FIXTURES SCHEDULE

FAUCET ON

THIS WALL.

MOPHOLDER &

UTILITY SHELF.

4'-0" x 48" H.

MAINTAIN MINIMUM INTERIOR -

CLEARANCE OF 74'-0" BETWEEN

5/8" GYPSUM BOARD

BY PRE-ENGINEERED

METAL BUILDING MER.

o/ METAL LINER PANELS

INSTALLED DIRECTLY TO

METAL BUILDING GIRTS.

EXTERIOR FINISH. REFER

TO EXTERIOR ELEVATIONS.

METAL BUILDING COLUMNS

SHALL BE STRAIGHT, TAPERED

COLUMNS REQUIRE WRITTEN

A3.0 FOR ADDITIONAL DETAILS.

INSULATION w/ VAPOR BARRIER. REFER TO SHEET

APPROVAL.

FACE OF BUILDING FRAME COLUMN

FRP PANEL.

BOLLARDS.

ENLARGED MOP SINK PLAN

<u>NOTE</u>: WATER HEATER SHELF SHALL BE INSTALLED AS TO NOT IMPEDE FULL-LENGTH OF

4 ANCHOR BOARD DETAIL

SCALE: 1/2"=1'-0"

- LINE OF FREEZER

FIXTURE SUPPLIED

& INSTALLED BY

DOLLAR GENERA

MERCHANDISING

CONTRACTOR TO

2x4 WHITE PINE

PROVIDE & INSTALL

GRADE 2 or BETTER.

DEPARTMENT.

COOLERS BEYOND.

CONTRACTOR TO PROVIDE

& INSTALL 2x6 WHITE PINE

GRADE 2 or BETTER.

FASTEN THE 2x6 TO THE WALL w/ THE TOP EDGE OF THE BOARD AT 6'-6" A.F.F. REFER TO FIXTURE PLAN FOR LENGTH & LOCATION OF BOARD. 4. FASTEN THE 2x4 TO THE WALL w/ THE TOP EDGE OF THE BOARD AT 1'-0" A.F.F. REFER TO FIXTURE PLAN FOR LENGTH & LOCATION OF BOARD.

5. PRE-DRILL PILOT HOLES IN ALL BOARDS PRIOR TO INSTALLATION TO PREVENT WOOD SPLITS.

DRINK FIXTURE WALL MOUNTING SUPPORT NOTES

1. PROVIDE & INSTALL 2x6 WHITE PINE - GRADE 2 or

2. PROVIDE & INSTALL 2x4 WHITE PINE - GRADE 2 or

INTERIOR FACE OF PRE-ENGINEERED

METAL BUILDING FRAMING BEYOND.

ANCHOR BOARD: CONTRACTOR TO

PROVIDE & INSTALL 2x6 WHITE PINE

TOP OF FIXTURE TO BE AFFIXED TO

MERCHANDISING DEPARTMENT.

— FIXTURE SUPPLIED & INSTALLED BY

ANCHOR BOARD: CONTRACTOR TO

PROVIDE & INSTALL 2x4 WHITE PINE

DRIED PINE NAILER BY DOLLAR GENERAL

GRADE 2 or BETTER.

 \longrightarrow \sqsubseteq \equiv \equiv \equiv Dollar General Merchandising

= = = =

T====

DEPARTMENT.

METAL LINER PANELS.

GRADE 2 or BETTER.

FINISHED FLOOR

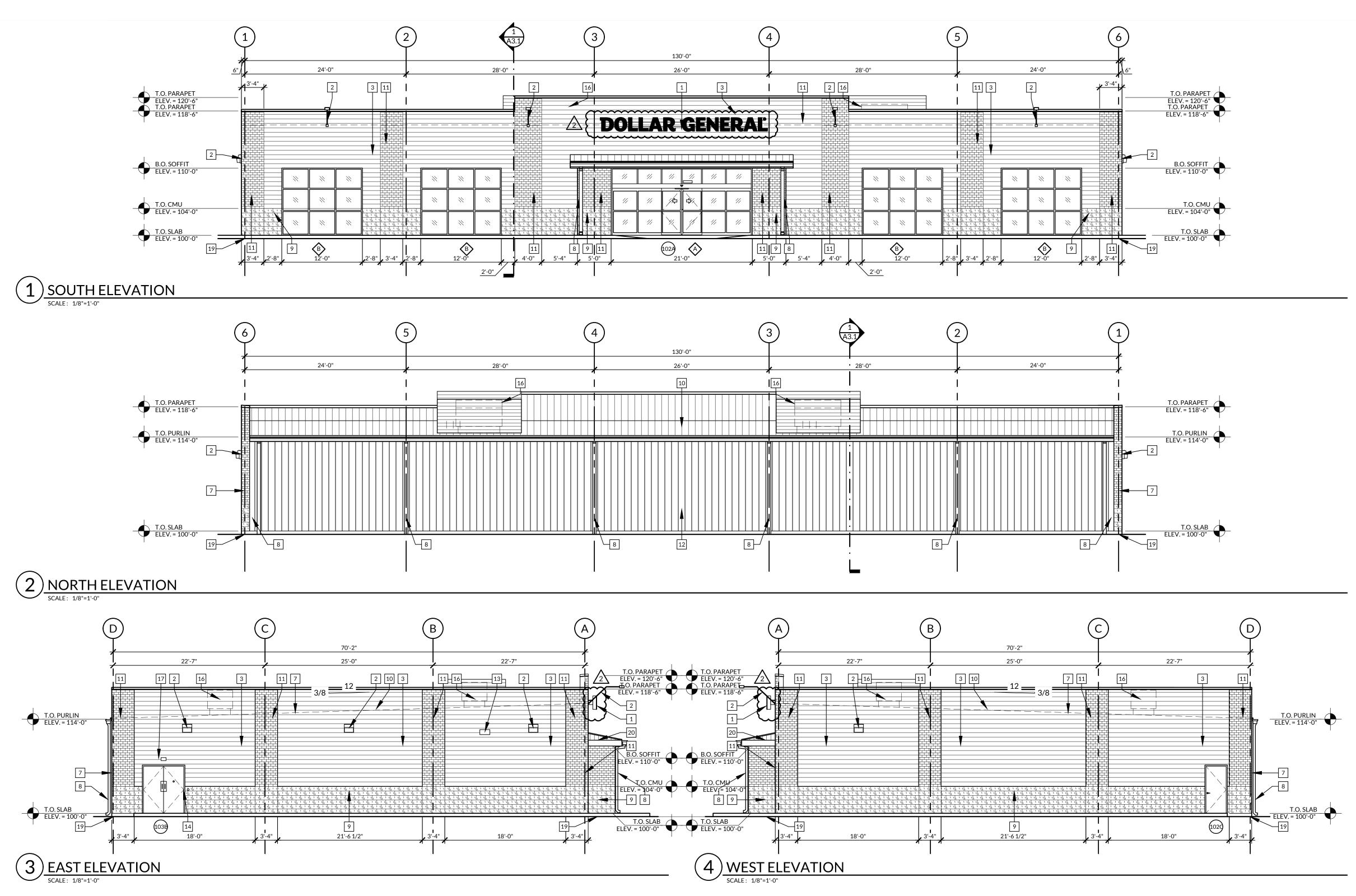
6. SECURE THE 2x6 w/ THREE SELF-TAPPING SCREWS PER WALL STUD. MINIMUM SCREW SIZE IS 4"x1/4".

7. FASTEN THE 2x4 w/ ONE SELF-TAPPING SCREW PER WALL STUD. MINIMUM SCREW SIZE IS 4"x1/4".

8. CAULK THE EDGES OF THE 2x6 AT THE TOP & BOTTOM WHERE IT MEETS THE WALL PRIOR TO PAINTING. 9. PRIME & PAINT BOTH BOARDS TO MATCH WALL

10. VERIFY LOCATIONS OF ANCHOR BOARD w/ FIXTURE

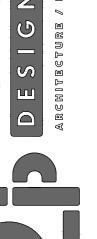
3 5/8" 20 GA. METAL STUD WALL · TYPICAL



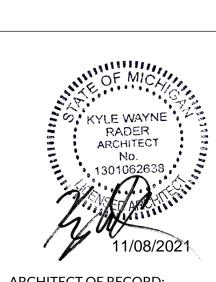
										EXT	ERIOR FIN	IISH SCHEE	DULE																	
RE-ENGINEERED METAL BUILDING VENDOR.	VP BUILD ATTN:DA	VID ENGL	ISH 668-4537				JILDING SY DDNEY BUI (800) 8					BUILDING S DB BARRY (315) 6	SYSTEMS 22-4440 · (260) 837-	7891	BIGBEE ST ATTN:KE\			<u>C.</u>			JILDINGS IN SULLIV (800) 8					RRED COLO IALS ARE U S.			
KTERIOR FINISHES ARE TO MATCH or BE EQUAL TO VP ETAL BUILDING SYSTEM'S FINISH SELECTION.	COOL EGYPTIAN WHITE	COOL DARK BRONZE	BRONZE	COOLCOTTON	GALVALUME	LIGHTSTONE	MEDIUM BRONZE, KYNAR 500	BRONZE	POLARWHITE	GALVALUME	LIGHTSTONE	MEDIUM BRONZE, KYNAR 500	BRONZE	POLARWHITE	GALVALUME	SANDSTONE	BURNISHED SLATE	BRONZE	POLAR WHITE	GALVALUME	PARCHMENT	ANTIQUE BRONZE	BRONZE	POLARWHITE	GALVALUME	SHERWIN WILLIAMS SW7037 "BALANCED BEIGE"	SHERWIN WILLIAMS SW7041 "VAN DYKE BROWN"	BRONZE	WHITE BY PEMB MANUFACTURER	CALVALIME
UTTERS.	•					•					•					•					•					•				
OWNSPOUTS.	•					•					•					•					•					•				
DE & REAR METAL WALL PANELS & TRIM, RECEIVING & MERGENCY EXIT DOORS. (EXTERIOR OF DOORS TO BE AINTED. REFER TO DOOR SCHEDULE.)	•					•					•					•					•					•				
'SPLIT-FACE CMU BLOCK.	F		I ITE BLOC R: SAHAR	⊥ K or EQUA \ SAND.	L.		FEATHERL COLO	⊥ ITE BLOC R: SAHAR⁄		L.		L FEATHERLI COLOF	TE BLOCK S: SAHARA		L.	F	EATHERLI COLOR	L ITE BLOCH R: SAHARA		L.	F		⊥ LITE BLOC R: SAHAR/	⊥ K or EQUA A SAND.	AL.		FEATHERI COLO	LITE BLOC DR: SAHAR/		AL.
' VELOUR FINISH ECONOMY SIZE BRICK.			BRICK or R: CRIMSO					BRICK or R: CRIMSO					BRICK or E R: CRIMSOI					BRICK or I R: CRIMSC				ACME	BRICK or R: CRIMSO	EQUAL.				E BRICK or DR: CRIMSO		
ICHIHA FIBER CEMENT PANEL.			: VINTAGE OR: REDW					: VINTAGE OR: REDW					VINTAGE\ DR: REDWO					VINTAGE DR: REDW					S: VINTAGE OR: REDW					S: VINTAGE OR: REDW		
AT METAL SOFFIT AT STOREFRONT VESTIBULE AREA.				•					•					•					•					•					•	
UILDING FASCIA WALL, PARAPET o/ ENTRANCE, & ANOPY.		•					•					•					•					•					•			
TOREFRONT SYSTEM.			•					•					•					•					•					•		
TANDING SEAM METAL ROOF PANELS.					•					•					•					•					•					
NER PANELS (INTERIOR SALES & RECEIVING FLOOR)				•					•					•					•					•					•	
	1																									+	+			+

- SIGN FURNISHED & INSTALLED BY DOLLAR GENERAL CORPORATION w/ CIRCUIT AS NOTED ON ELECTRICAL PLAN. SIGN TO BE CENTERED ON FRONT OF BUILDING. CONTRACTOR IS TO PROVIDE ADEQUATE BLOCKING AS REQUIRED BY SIGN MANUFACTURER TO SUPPORT SIGN WEIGHT OF UP TO 1,400 LBS. COORDINATE THE PROPER SIGNAGE TO BE USED w/ DOLLAR GENERAL.
- EXTERIOR LIGHTING. REFER TO ELECTRICAL DRAWINGS TO VERIFY EXACT QUANTITY, LOCATION, MOUNTING HEIGHT & OTHER SPECIFICATIONS.
- NICHIHA VINTAGEWOOD ARCHITECTURAL PANELS. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- 4 NOT USED.
- 5 NOT USED.
- 6 NOT USED.
- TRIM. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- GUTTER & DOWNSPOUT. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- 9 4" SPLIT FACE CONCRETE MASONRY UNIT. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- STANDING SEAM METAL ROOF. REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR.
- PRE-FINISHED METAL WALL PANELS. PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0". REFER TO EXTERIOR FINISH SCHEDULE FOR COLOR. 13 VENT FOR BATHROOM EXHAUST. REFER TO MECHANICAL DRAWINGS FOR EXACT
- LOCATION & ADDITIONAL INFORMATION. DOOR BUZZER. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- HVAC UNITS MOUNTED ON ROOF. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION & LOCATIONS. UNITS TO BE SCREENED FROM VIEW. SCREEN TO BE CITYSCAPES, INC. "ENVISOR SCREENING SYSTEM" or APPROVED EQUAL. OUTSIDE AIR TEMP. SENSOR MOUNTED OVER RECEIVING DOORS @ 8'-0" A.F.F.
- MINIMUM EAVE HEIGHT IS 14'-0" A.F.F.
- FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NON-PAVED AREAS.
- 20 METAL CANOPY BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
- 21 NOT USED.





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ARCHITECT OF RECORD: KYLE W. RADER ARCHITECTURAL LICENSE #: 1301062638

PROJECT NUMBER: 20264 · DGAM

REVISION:

A REV001

JULY 26, 2021

REV002

NOVEMBER 08, 2021

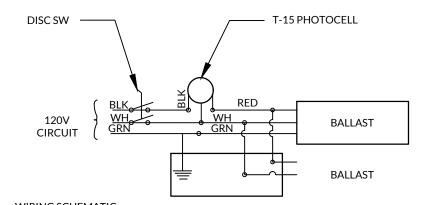
A2.1

EXTERIOR ELEVATIONS

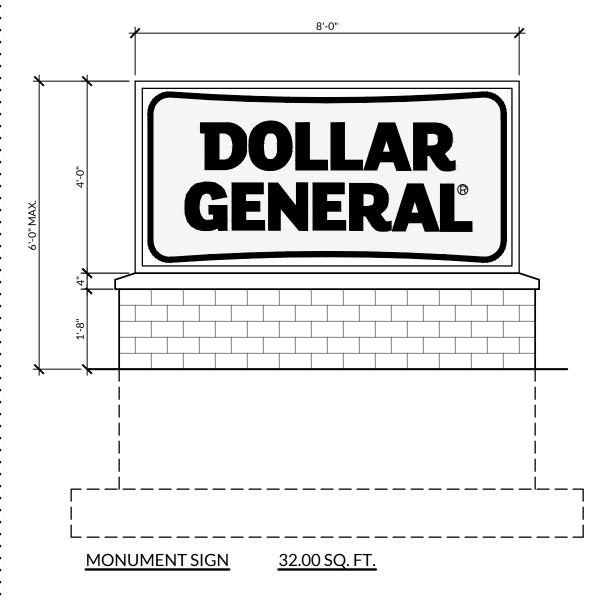
DATE: APRIL 01, 2020

DOLLAR GENERAL

& PHOTOCELL 57 LAMPS & (CC1320P) BALLASTS (2) 15A CIRCUITS REQUIRED



MAIN BUILDING SIGN



SIGN PERMIT APPLICATION TO BE INITIATED BY SIGNAGE VENDOR. ADDITIONAL SIGNAGE DETAILS SHALL BE PROVIDED AT TIME OF SIGN PERMIT APPLICATION.

WIRING SCHEMATIC

SIGN BY SIGNAGE CONTRACTOR.

- PRE-CAST CONCRETE

- BOND BEAM, TYPICAL.

ECONOMY SIZE BRICK

PAINTED TO MATCH

- #4 BARS @ 4'-0" o.c. IN SOLID GROUTED CELLS.

SLOPE GRADE AWAY FROM SIGNAGE.

- (4) #5 BARS CONTINUOUS,

TRANSVERSE TOP & BOTTOM.

— #5 BARS @ 12" o.c.,

8" CONCRETE MASONRY UNIT.

BUILDING.

ACTUAL · 27.867 SQ. FT.

BOXED METHOD · 49.781 SQ. FT.

SQUARE FOOTAGE



THIS SIGN TO BE PROVIDED & INSTALLED BY THE DEVELOPER or CONTRACTOR AT THE BEGINNING OF THE CONSTRUCTION PROJECT.

SIGN SPECIFICATIONS

1. BUILDING SIGNS: PROVIDE CONDUIT & WIRE FROM ELECTRICAL PANEL TO THE SIGN CANOPY. THE CONDUIT IS TO BE 1" & HAVE ONE SET OF 10/2 WIRE w/ GROUND. SIGN OF UP TO 1400 LBS. NOTE: IF THE LEASE SPECIFIES A 5'-0" x 40'-0" BUILDING SIGN or 24" LETTER SET (or LARGER), 2 QTY. -10/2 WIRE w/ GROUND. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2. PYLON SIGNS: PROVIDE CONDUIT FROM ELECTRICAL PANEL TO LOCATION OF THE

PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" &

- 3. FINAL ELECTRICAL CONNECTIONS FOR SIGN SHALL BE THE SIGN VENDORS RESPONSIBILITY ONCE THE "J" BOX & WIRES ARE IN PLACE.
- 4. SEE CHART BELOW FOR SIGN SPECIFICATIONS.
- 5. PYLON SIGN CABINETS TO CLEAR 15'-0" FROM GRADE & EDGE SHALL BE LOCATED NO

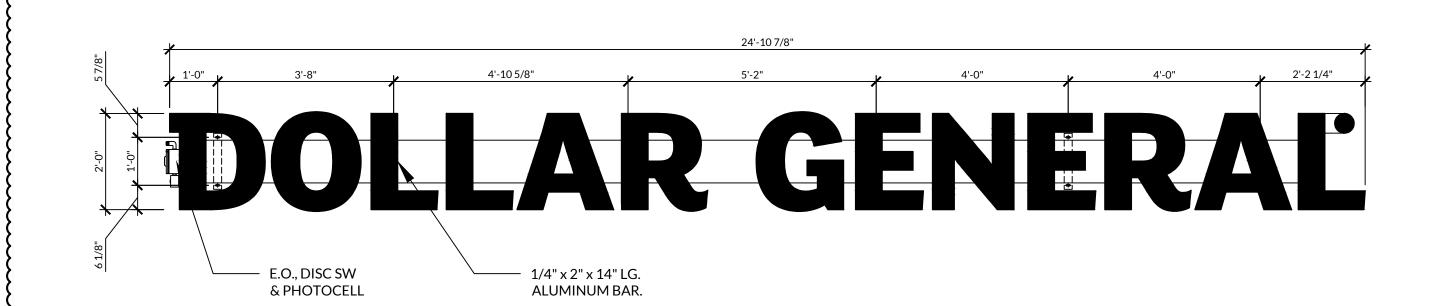
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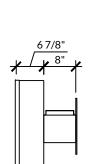
		BUILDING SIGN		
SIGN SIZE	SIGN WEIGHT	# OF CIRCUITS	AMPS	VOLTAGE
24" LETTERS	288 LBS.	(1) 15A & (1) 20A	23.45	115
		PYLON SIGN		
		TILONSIGN		
SIGN SIZE	SIGN WEIGHT	# OF CIRCUITS	AMPS	VOLTAGE

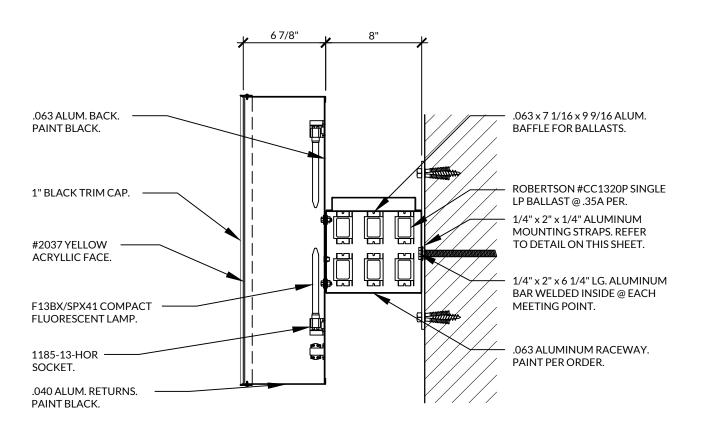
115

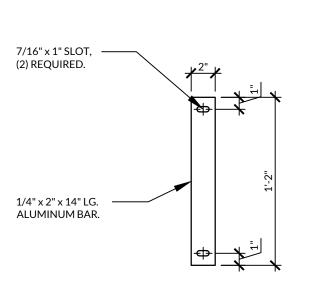
REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. CONTACT THE ARCHITECT IF THERE ARE ANY DISCREPANCIES.

SIGNAGE ELEVATIONS









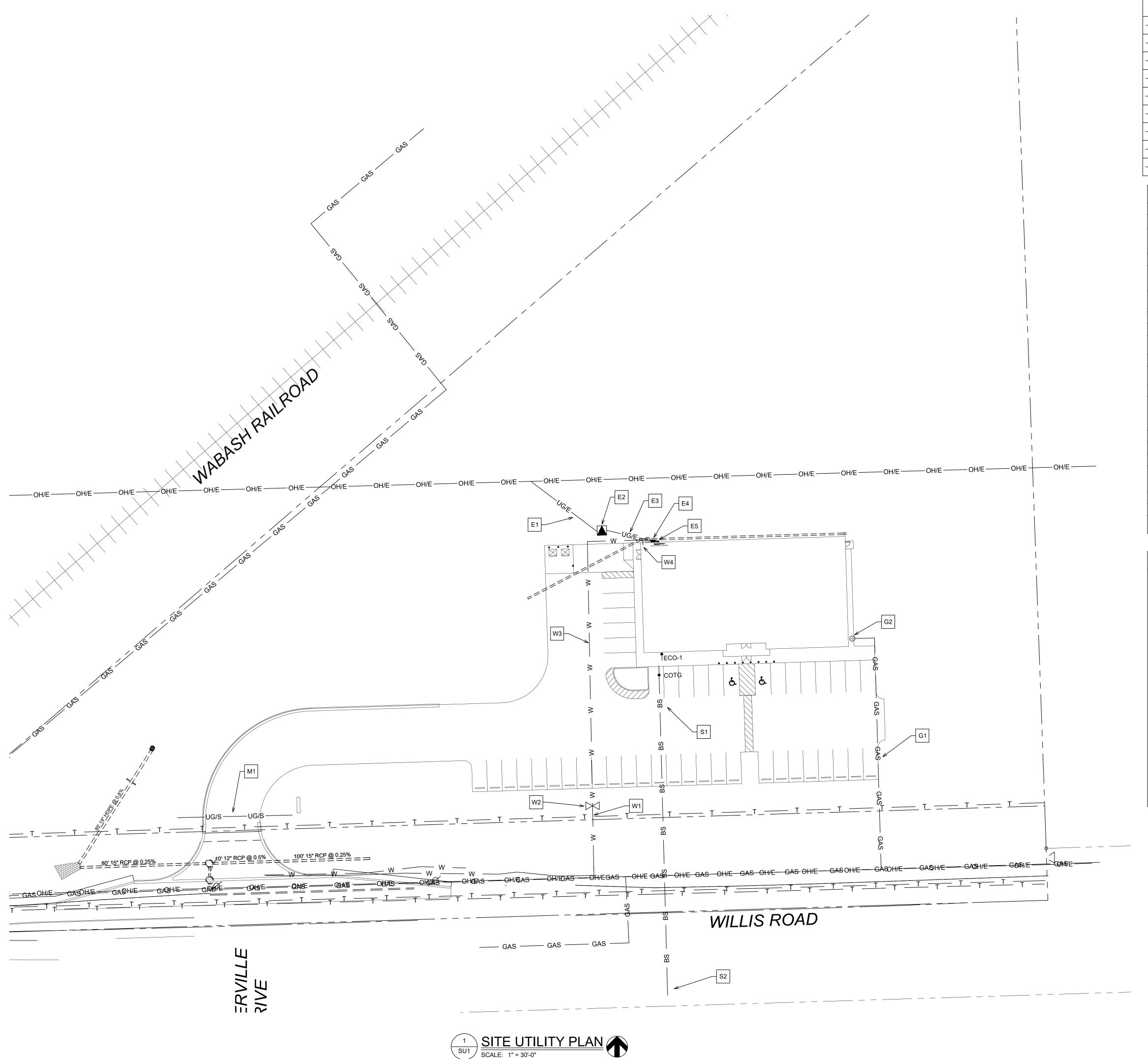
ARCHITECT OF RECORD: KYLE W. RADER ARCHITECTURAL LICENSE #: 1301062638

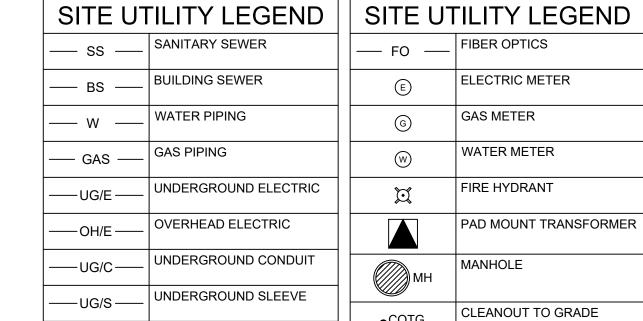
PROJECT NUMBER: 20264 · DGAM

REV002 NOVEMBER 08, 2021

SIGNAGE & SIGNAGE DETAILS

DATE: APRIL 01, 2020





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#	KEY	'NOTES
ELECT	FRICAL	
E1	PROPOSED UNDERGROUND PRIM	ARY BY THE ELECTRIC UTILITY.
E2		THE ELECTRIC UTILITY. THE E.C. SHALL ACCORDANCE WITH THE ELECTRIC UTILITY'S
E3	UNDERGROUND SERVICE LATERAL	BY THE ELECTRICAL CONTRACTOR.
E4		BY THE ELECTRICAL CONTRACTOR. 1-1/4" NIPPLE HE METER SOCKET BY THE ELECTRICAL
E5	600 AMP 2-POLE NEMA 3R FUSED : CONTRACTOR.	SERVICE DISCONNECT BY THE ELECTRICAL
GAS	-	

NATURAL GAS SERVICE PIPE BY GAS COMPANY. LOCATION OF THE GAS METER WITH A SHUT-OFF VALVE ON THE SUPPLY SIDE AND A

7" W.C. REGULATOR. THE NATURAL GAS LOAD WILL BE 600,000 BTUH. MISCELLANEOUS

4" PVC SLEEVE WITH PULL WIRE UNDER DRIVE. TURN UP AND WEATHERPROOF

BOTH ENDS.

SEWER

4" BUILDING SEWER AT 1/4" PER 1' SLOPE WITH CLEANOUT TO GRADE WITHIN 5' OF THE BUILDING AND EVERY 100' THEREAFTER AND AT EVERY HORIZONTAL CHANGE OF DIRECTION GREATER THAN 45°. COORDINATE WITH THE SEWER COMPANY FOR TAPPING REQUIREMENTS, ROAD BORING/CUTTING & PATCHING, ETC. CONNECT TO THE SANITARY SEWER.

MANHOLE ELEVATIONS PROVIDED BY THE SURVEYOR.

1-1/2" TAP FOR DOMESTIC AND LAWN IRRIGATION WATER USES. COORDINATE WITH PATCHING, ETC.

1-1/2" CURB STOP AT THE PROPERTY LINE. 1-1/2" WATER SERVICE FOR DOMESTIC AND LAWN IRRIGATION USES. THE WATER METERS WILL BE INSIDE THE BUILDING AT THIS LOCATION.

WATER & SEWER SERVICE MATERIALS

WATER SERVICE PIPE

COPPER: SEAMLESS COPPER TUBE TYPE K, SOFT TEMPER - ANSI H23.1, ASTM B88. COPPER FITTINGS: BRASS OR BRONZE FLARE FITTINGS 125 LBS AND OVER, HEAVY DUTY LONG COLLAR TYPE - ASTM B62. OR CAST BRONZE AND WROUGHT SOLDER JOINT

PRESSURE FITTING - ANSI B16.22, ANSI H23.1, ANSI B16.18. SOLDERED JOINTS SHALL BE THOROUGHLY CLEANED AND PROPERLY FLUXED WITH NONCORROSIVE PASTE OR LIQUID FLUX COMPLYING WITH ASTM B813-00. SOLDER SHALL BE 95-5 TIN ANTIMONY OR 96-4 TIN SILVER SOLDER (LESS THAN 0.2% LEAD) COMPLYING WITH

HDPE: SIDR 9, 200 PSI, WATER SERVICE PIPE - ASTM D2239.

HDPE FITTING: ASTM D2609, ASTM D2683, ASTM D3261, ASTM F1055, CSA B137.1.

HDPE: CTS DR 11, 200 PSI, WATER SERVICE PIPE - ASTM D2737. HDPE FITTING: ASTM D2609, ASTM D2683, ASTM D3261, ASTM F1055, CSA B137.1.

PLASTIC PIPE (HDPE) SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2774 AND SHALL BE INSTALLED WITH A COATED #12 AWG COPPER TRACER WIRE.

PVC DRAIN WASTE AND VENT: SCH. 40 OR SCH. 80 SOLVENT WELD PIPE AND FITTINGS -ASTM D2665, ASTM F628, NSF 14, CS272, CSA-B181.2.

PVC SEWER PIPE - SDR 23.5 - ASTM D3034.

PVC PIPE AND FITTINGS MUST BE LAID ON A CONTINUOUS GRANULAR BED. INSTALLATION SHALL COMPLY WITH ASTM D2321.

CAST IRON: CAST IRON PIPE AND FITTINGS EXTRA HEAVY - ANSI A21.8; CAST IRON PIPE CENTRIFUGALLY CAST ONLY AND FITTINGS SERVICE WEIGHT - ANSI A21.6, ANSI A21.8, CS188. CAST IRON FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS - ASTM A888-07A, CISPI STD. 301-05, CSA/CAN 3-B70.





FIELD VERIFY AND COORDINATE ALL UNDERGROUND UTILITIES WITH STORM WATER DETENTION AND DRAIN PIPING TO AVOID CONFLICT/INTERFERENCE.

SEP 23, 2021

ENGINEER: Daniel L. Martin Z LICENSE #: 6201064277

DRAWN: CHECKED: DATE: 10/29/2020 REVISION: 09/22/2021 ᄌ 阡 REVISION:

REVISION: REVISION: JOB #: 2020-172 SHEET #:

GENERAL SITE UTILITY SPECIFICATIONS AND NOTES

1	THESE PLANS AND SPECIFICATIONS ARE EACH PART OF AN INTEGRATED DESIGN SYSTEM. ANY MODIFICATION, ALTERATION, CHANGE, DELETION, ADDITION, OR SUBSTITUTION, OF OR TO ANY PART OF THE PLANS OR SPECIFICATION COULD RESULT IN PROPERTY DAMAGE, INJURY, OR EVEN DEATH, AND REQUIRES A FULL REVIEW OF THE ENTIRE SYSTEM BY A PROFESSIONAL ENGINEER. ANY UNAUTHORIZED MODIFICATION OF THIS DOCUMENT MAY CONSTITUTE UNLICENSED PRACTICE AS A PROFESSIONAL ENGINEER AND MAY VIOLATE LAWS REGULATING THE PRACTICE OF ENGINEERING.
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THIS APPLIES TO ALL MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS: THESE DRAWINGS AND SPECIFICATIONS ARE NOT DETAILED FABRICATION DRAWINGS TYPICALLY SHOWN IN STEP BY STEP INSTRUCTIONS. THEIR INTENT IS TO ESTABLISH THE MINIMUM STANDARD OF PERFORMANCE THAT IS ACCEPTABLE FOR THIS PROJECT. MAJOR COMPONENTS ARE ITEMIZED AND SHOWN BUT, ALL THE WORK AND EACH INDIVIDUAL DEVICE IS NOT NECESSARILY DESCRIBED OR INDICATED IN INTRICATE DETAIL. THE CONTRACTOR IS EXPECTED TO INCLUDE THESE ITEMS IN HIS BID BY HIS FORESIGHT FROM PREVIOUS EXPERIENCE AND/OR WITH A DOLLAR CONTINGENCY AMOUNT FOR CONTRACTOR NEEDS STEP BY STEP INSTRUCTIONS TO COMPLETE THIS WORK OR IF HE IS NOT FAMILIAR WITH THE LOCAL CODES OR THE TYPE OF SYSTEMS BEING INSTALLED, HE IS ADVISED NOT TO SUBMIT A BID OR TO WORK ON THIS PROJECT. FIELD MEASURING AND COORDINATING WITH OTHER TRADES IS MANDATORY. ALTHOUGH THE DRAWINGS SHOULD BE SIMILAR TO THE ACTUAL DIMENSIONS, THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE DIMENSIONS OF THE WORK SHOWN. DO NOT SCALE DIMENSIONS OFF THE PLANS FOR FABRICATION. VERIFY WITH FIELD MEASUREMENT. COORDINATE WITH GENERAL CONTRACTOR EACH EQUIPMENT SIZE WITH THE LOCATION WHERE IT IS TO BE INSTALLED BEFORE ORDERING. NOTIFY THE ENGINEER IF SPACE DOES NOT ALLOW FOR EQUIPMENT SPECIFIED. ALL SUCH DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND IT IS HIS RESPONSIBILITY TO FIT WORK INTO ALLOWED SPACE. ALL OFF-SETS AND SMALL CHANGES IN ROUTING ARE CONSIDERED A PART OF THE SCOPE OF THE BASE BID FOR THIS PROJECT AND SHALL BE APPROVED BY THE ENGINEER OR ARCHITECT BEFORE INSTALLATION.

- THE ENGINEER IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT INSPECTION OF WORK IN PROGRESS.
- CONTRACTOR IS TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL ON-SITE CONDITIONS, VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS, AND MAKE CONNECTIONS TO LOCAL UTILITY COMPANY REQUIREMENTS AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS. THE CONTRACTOR IS TO CONTACT THE LOCAL UTILITY COMPANY(S) & TO CONFIRM THE SCOPE OF RESPONSIBILITY FOR ALL UTILITY CONNECTION(S)
- T SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR CONNECTION AND TO COORDINATE ALL UTILITY SERVICES TO THE FACILITIES/BUILDING. THE CONTRACTOR IS TO INCLUDE ALL COSTS, FEES, CHARGES, ETC. ASSOCIATED WITH THE CONNECTION OF NEW SERVICES (OR IN THE EVENT OF RENOVATIONS TO AN EXISTING BUILDING, MODIFICATIONS TO EXISTING SERVICES) FOR THE BUILDING. ALL WORK IS TO BE DONE IN ACCORDANCE WITH ALL LOCAL CODES, THE UTILITY COMPANY(S) STANDARDS, AND THE CURRENT BUILDING CODE. COORDINATE ALL ROUGH-INS WITH THE OWNER.
- WATER SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR WATER SERVICE AS INDICATED ON DRAWINGS. CONTRACTOR SHALL CONTACT THE LOCAL WATER DEPARTMENT AND ARRANGE FOR WATER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WHAT IS OR IS NOT PROVIDED BY THE UTILITY COMPANY AND TO INCLUDE ALL COST(S) TO PROVIDE A WATER TAP/CONNECTION INTO HIS BID.
- NATURAL GAS SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. CONTRACTOR SHALL CONTACT THE LOCAL GAS DEPARTMENT AND ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR GAS SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT FUEL GAS CODE AND WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. NORMALLY THE UTILITY COMPANY SHALL MAKE THE MAIN TAP AND PROVIDE THE METER AND METER MANIFOLD AS WELL AS ALL PIPING, TRENCHING AND BACKFILL FROM THE GAS MAIN TO THE METER. NORMALLY THE CONTRACTOR SHALL PROVIDE ALL PIPING FROM THE METER TO THE FIXTURES. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM WHAT IS OR IS NOT PROVIDED BY THE UTILITY COMPANY AND TO INCLUDE ALL COST(S) TO PROVIDE A COMPLETE GAS TAP/CONNECTION INTO HIS BID.
- SEWER SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR SEWER SERVICE AS INDICATED ON DRAWINGS. CONTACT THE LOCAL AUTHORITIES AND ARRANGE FOR SEWER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SEWER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT INTERNATIONAL PLUMBING CODE (IPC) AND WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. NORMALLY THE CONTRACTOR SHALL MAKE THE SEWER TAP, BE RESPONSIBLE FOR ALL PIPING AND ASSOCIATED TRENCHING, AND BACK FILL FROM THE SEWER CONNECTION POINT TO THE BUILDING. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM WHAT IS OR IS NOT PROVIDED BY THE UTILITY COMPANY AND TO INCLUDE ALL COST TO PROVIDE A COMPLETE SEWER SERVICE INSTALLATION/CONNECTION INTO HIS BID. PROVIDE WASTE LINE BACKWATER VALVE IN ACCESSIBLE PLACE IF EITHER TOP OF MANHOLE (UPSTREAM OR DOWNSTREAM) IS HIGHER THAN FINISHED FLOOR ELEVATION.

UNDER GROUND ELECTRICAL SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. CONTACT THE LOCAL ELECTRICAL UTILITY COMPANY AND ARRANGE FOR ELECTRICAL SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE (NEC), WITH THE CURRENT NFPA LIFE SAFETY CODE, AND WITH THE REQUIREMENTS OF LOCAL AUTHORITIES. NORMALLY THE UTILITY COMPANY SHALL PROVIDE THE PAD MOUNTED TRANSFORMER, METER, AND PRIMARY WIRING. NORMALLY THE CONTRACTOR SHALL PROVIDE THE CONCRETE PAD FOR THE TRANSFORMER, THE CT CABINET, METER BASE, ASSOCIATED TRENCHING AND BACKFILL FROM THE ELECTRIC JUNCTION CABINET TO THE TRANSFORMER, AS WELL AS ALL CONDUIT AND WIRE FROM THE TRANSFORMER TO THE CT CABINET, AND/OR BUILDING ELECTRIC SERVICE AS SHOWN ON THE ELECTRIC SERVICE RISER DIAGRAM. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM WHAT IS OR IS NOT PROVIDED BY THE UTILITY COMPANY AND TO INCLUDE ALL COST TO PROVIDE A COMPLETE ELECTRICAL CONNECTION INTO HIS BID. THE PHOTOMETRIC OF THE EXTERIOR LIGHTING WILL BE A MAXIMUM OF 1-FOOT CANDLE ON THE PROPERTY LINE, WITH AN AVERAGE OF 5-FOOT CANDLE OVER THE EXTERIOR PROPERTY. NOTE THAT THE WALL-PAKS ARE SPECIFIED TO HAVE SHIELDS TO CONFINE THE LIGHT TO THIS PROPERTY.

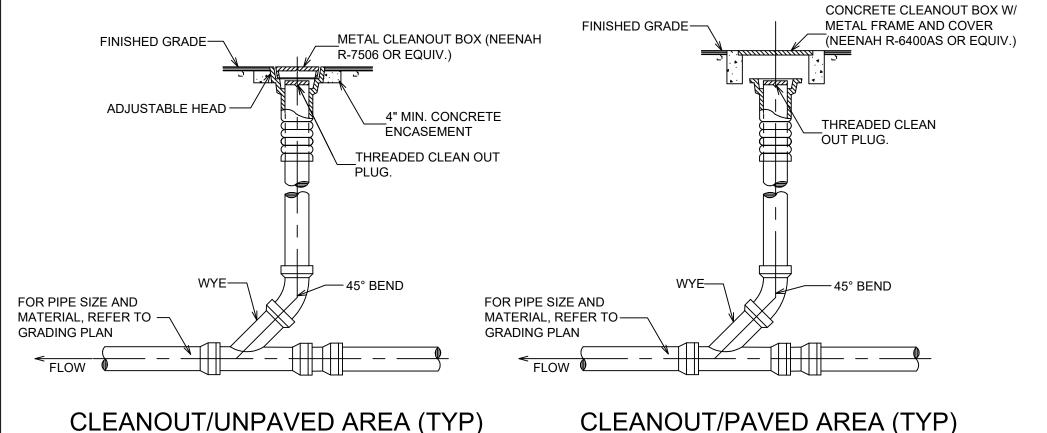
- SERVICE VALVES (SHUT OFF VALVES) LOCATED IN AN ACCESSIBLE, SERVICEABLE LOCATION ARE TO BE PROVIDED FOR HOSE BIBS.
- TELEPHONE SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR TELEPHONE SERVICE AS INDICATED ON DRAWINGS CONTRACTOR SHALL CONTACT THE LOCAL TELEPHONE COMPANY AND ARRANGE FOR TELEPHONE SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY TELEPHONE COMPANY INTO BID THE CONTRACTOR SHALL PROVIDE A 4" CONDUIT AS SHOWN ON THE PLANS FOR USE BY THE UTILITY COMPANY IN BRINGING TELEPHONE SERVICE INTO THE BUILDING. PROVIDE A 4' x 8' x 3/4" THICK EXTERIOR GRADE PLYWOOD PANEL FOR MOUNTING COMMUNICATION EQUIPMENT. PANEL TO BE PAINTED WHITE (FIRE RESISTANT PAINT).
- CABLE SERVICE: CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO ARRANGE FOR CABLE SERVICE AS INDICATED ON DRAWINGS. CONTRACTOR SHALL PROVIDE A ROUGH-IN CONDUIT FOR CABLE SERVICE AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL PROVIDE AN EMPTY 4" CONDUIT AS SHOWN ON THE PLANS FOR USE BY THE UTILITY COMPANY IN BRINGING CABLE SERVICE INTO THE BUILDING.
- SPECIFICATION REQUIREMENTS ARE THAT THE DIFFERENT TRADES ARE TO COORDINATE WITH EACH OTHER. THE MECHANICAL CONTRACTOR IS TO LOOK AT AND BE FAMILIAR WITH THE PLUMBING AND ELECTRICAL SHEETS. THE PLUMBING CONTRACTOR IS TO LOOK AT AND BE FAMILIAR WITH THE MECHANICAL AND ELECTRICAL SHEETS. THE ELECTRICAL CONTRACTOR IS TO LOOK AT AND BE FAMILIAR WITH THE PLUMBING AND MECHANICAL SHEETS.
- CONTACTORS ARE TO VISIT THE JOBSITE, TO INSPECT ANY AND ALL EQUIPMENT AT THE SITE, TO INSPECT ANY AND ALL EQUIPMENT THAT IS BEING PURCHASED AND/OR MOVED FROM ANOTHER LOCATION OR SITE TO THE NEW SITE, TO CHECK ANY AND ALL NAMEPLATES AND TO VERIFY UTILITY REQUIREMENTS, THEN TO VERIFY, CONFIRM AND COORDINATE WITH THE DRAWINGS. DISCREPANCIES ARE TO BE COORDINATED WITH THE ENGINEER. CONTRACTOR INSPECTIONS AND VERIFICATIONS ARE TO BE PRIOR TO PREPARING THE NEW SITE.
- SPECIFICATION REQUIREMENTS ARE THAT THE DIFFERENT TRADES ARE TO COORDINATE WITH EACH OTHER. THE MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS ARE TO LOOK AT AND BE FAMILIAR WITH THE SITE UTILITY SHEETS. COORDINATE DOES NOT MEAN "I WAS HERE FIRST"

WARNING TAPE -SELECTED BACKFILL USE CLEAN GRAVEL WATER PIPE UNDER PAVEMENT 84" MIN. COVER SEWER PIPE 84" MIN. COVER SECURE TRACER - WIRE ALONG TOP OF PIPE -GRAVEL → 6" MIN.

PIPE INSTALLATION (TYP) NOT TO SCALE

CLEANOUT SPECIFICATIONS

- ALL HORIZONTAL DRAINS SHALL HAVE CLEANOUTS LOCATED NOT MORE THAN 100
- ALL BUILDING SEWERS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 50 FT. APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
- CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF HORIZONTAL
- WASTE OR SOIL LINES, WHICH IS GREATER THAN 45 DEGREES.
- A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.
- PROVIDE A CLEANOUT NEAR THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER. CLEANOUT TO BE BROUGHT UP TO FINISHED GRADE LEVEL.



NOT TO SCALE

CLEANOUT/PAVED AREA (TYP)

NOT TO SCALE

GENE

WILLIS,

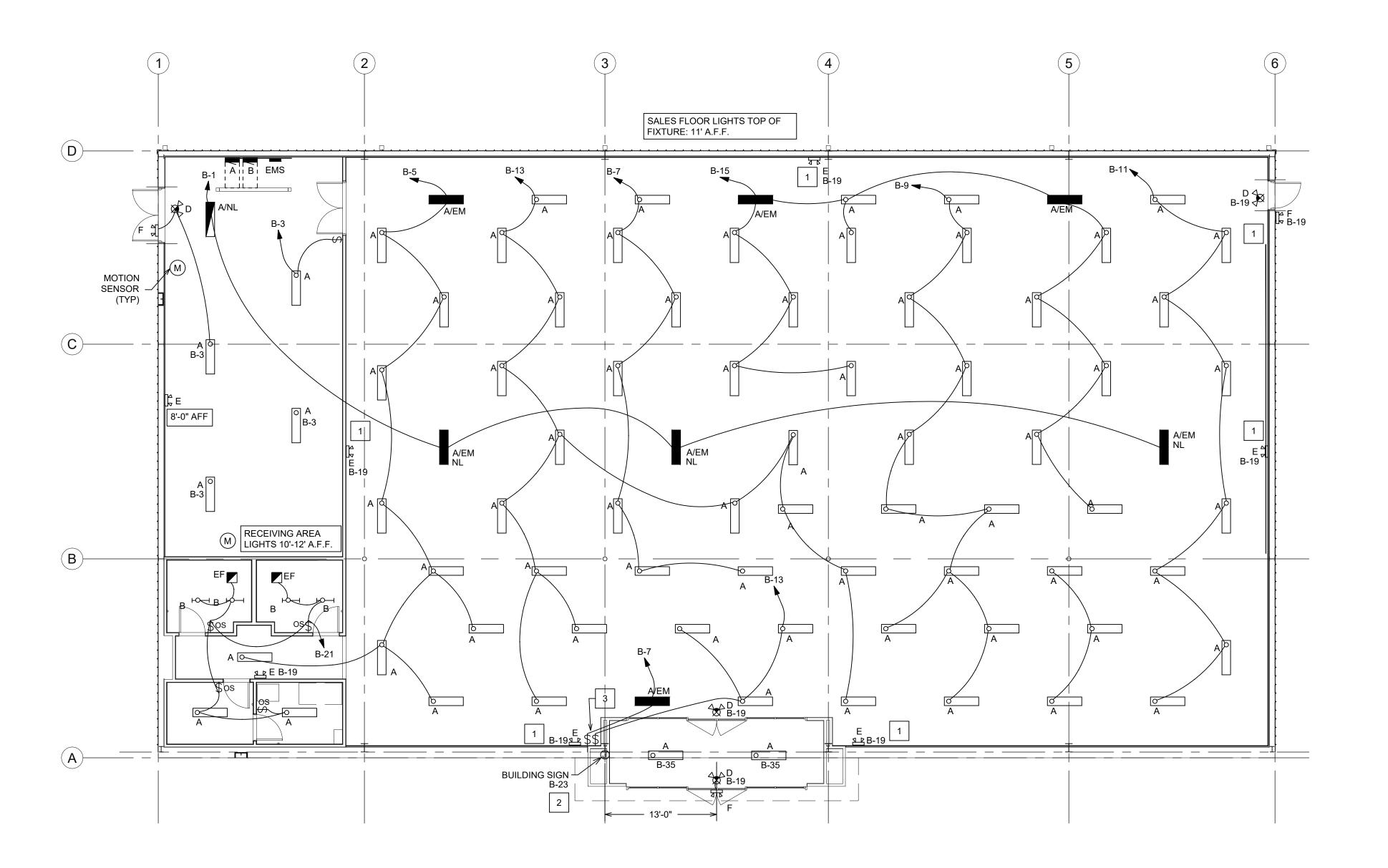
OCT 30, 2020

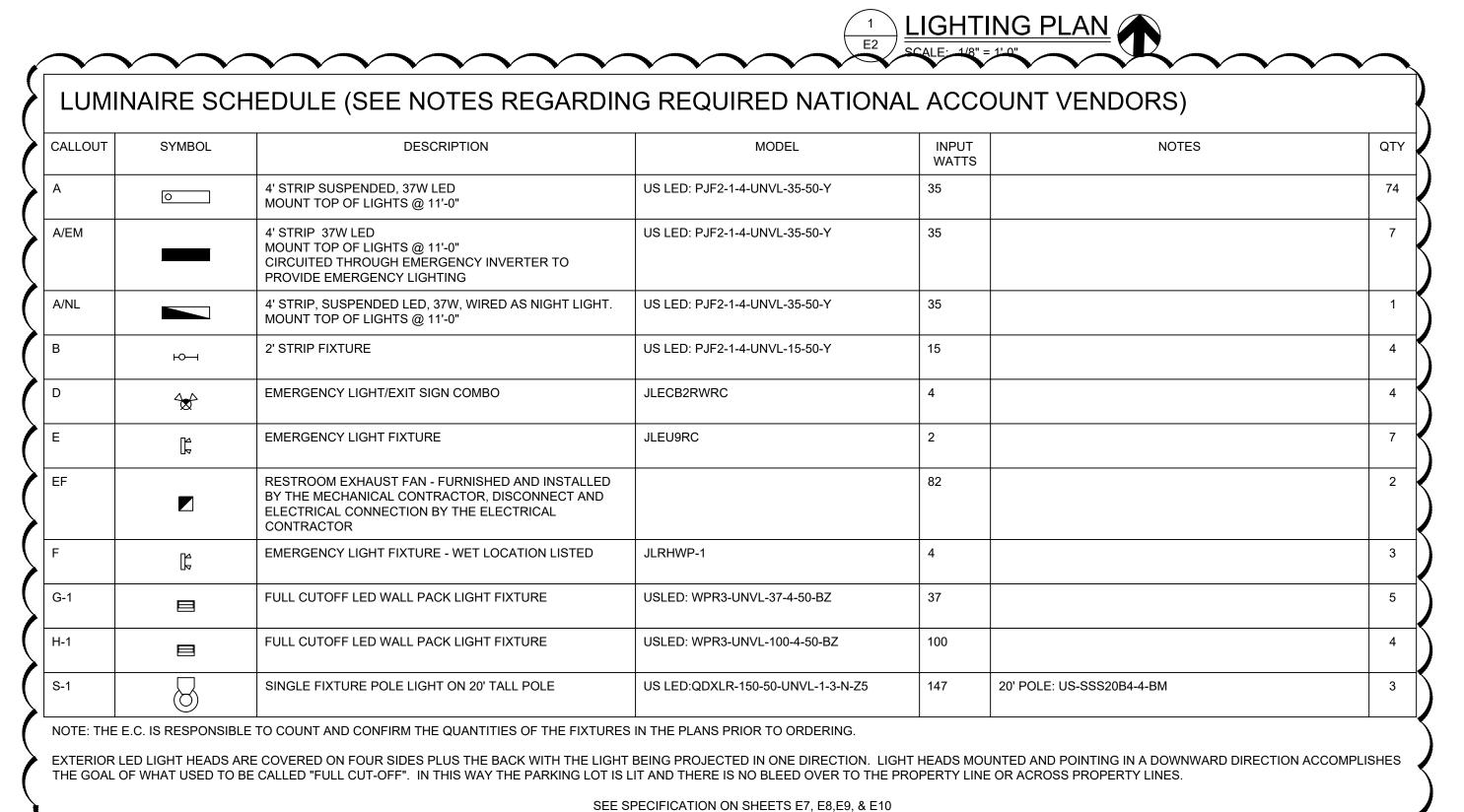
LO LO ENGINEER: Daniel L. Martin LICENSE #: 6201064277

DRAWN: CHECKED: DATE: 10/29/2020 REVISION: Z Z K REVISION REVISION: REVISION:

JOB #: 2020-172

SHEET #:





SWITC	H SCHEDULE	
SYMBOL	CALLOUT	
\$	SINGLE POLE SWITCH	
\$ os	WALL SWITCH OCCUPANCY SENSOR: LEVITON ODS10-IDW	

THE OPERATING PART OF LIGHT SWITCHES SHALL BE NO MORE THAN 48" AFF TO SATISFY ACCESSIBILITY REQUIREMENTS.

KEYNOTES

EMERGENCY/EXIT SIGNS AND LIGHTS: INSTALL EMERGENCY LIGHTS AND EXIT SIGNS THROUGHOUT THE BUILDING IN COMPLIANCE WITH ALL APPLICABLE CODES. INSTALL EMERGENCY LIGHTS AND EXIT SIGNS 10'-6" AFF. INSTALL EMERGENCY LIGHTS ON THE OFFICE WALL (10' HIGH WALL) AS HIGH AS POSSIBLE ON WALL.

- JUNCTION BOX FOR SIGN ON THE INTERIOR OF THE PARAPET, 13'-0" LEFT OF CENTER
- OF THE BUILDING.

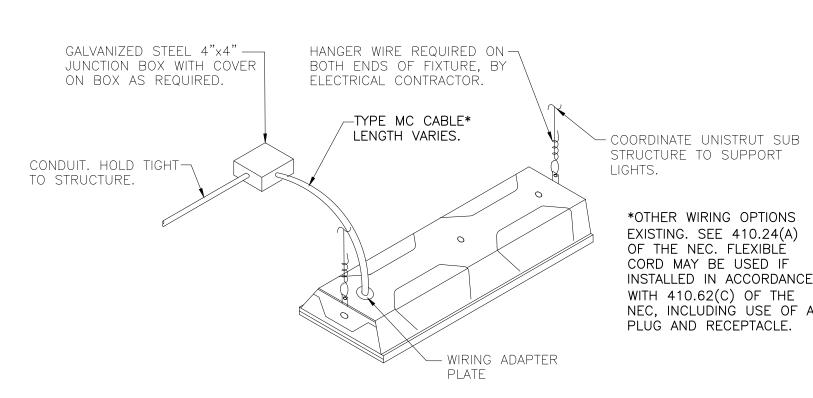
 SWITCH FOR MANUAL CONTROL OF THE LIGHT FIXTURES IN THE DAYLIGHT ZONE AS

REQUIRED BY THE ENERGY CONSERVATION CODE.

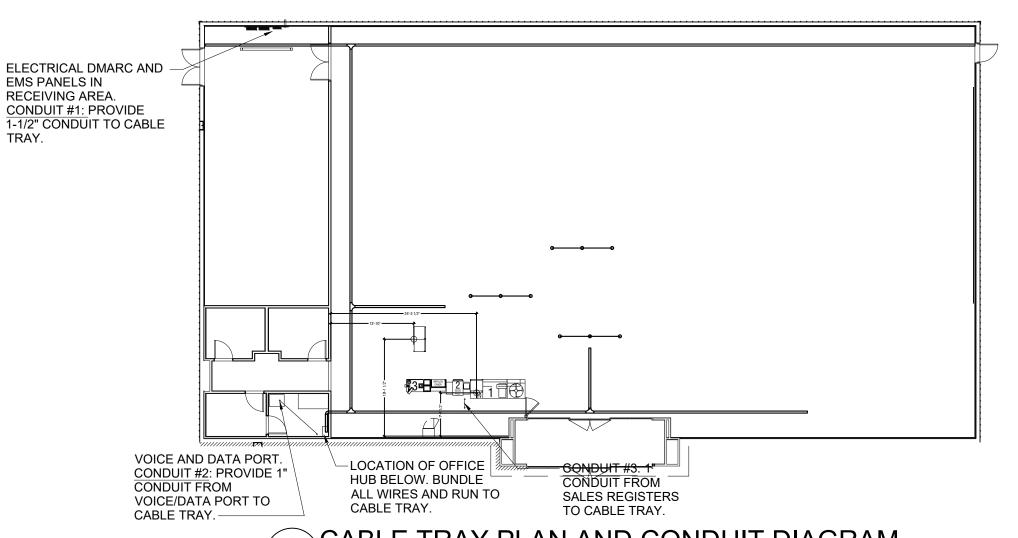
EMS/LIGHTING CONTROL REQUIREMENTS FOR ENERGY CONSERVATION CODE

- . ALL INTERIOR LIGHTING, OTHER THAN EMERGENCY/EXIT LIGHTS AND SECURITY LIGHTS SHALL BE CONTROLLED BY AN AUTOMATIC TIME SWITCH.
- MANUAL LIGHTING OVERRIDE CONTROLS SHALL HAVE A TIME LIMIT OF 2 HOURS OR LESS.
- 3. FOR SECURITY REASONS, THE SALES AREA LIGHTS WILL BE CONTROLLED BY THE TIME CLOCK WITH MANUAL OVERRIDE ACCESSIBLE ONLY BY EMPLOYEES.
- I. INDEPENDENT LIGHTING CONTROLS IN THE RESTROOMS, OFFICE, AND BREAK ROOM WILL BE PROVIDED BY WALL SWITCHES WITH OCCUPANCY SENSORS TO TURN THE LIGHTS OFF WITHIN 30 MINUTES OF VACANCY.
- 5. INDEPENDENT LIGHTING CONTROLS IN THE RECEIVING AREA WILL BE PROVIDED BY A SWITCH IN THE RECEIVING AREA.
- DAYLIGHT ZONE CONTROL SHALL BE PROVIDED BY A MANUAL SWITCH NEAR THE CASH REGISTERS.
- DUSK-TO-DAWN EXTERIOR LIGHTS SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK. OTHER EXTERIOR LIGHTS AND SIGNAGE SHALL BE CONTROLLED BY A

TIME CLOCK AND ASTRONOMICAL TIME CLOCK.



TYPICAL LIGHT FIXTURE MOUNTING DETAIL SCALE: NTS



2 CABLE TRAY PLAN AND CONDUIT DIAGRAM
E2 SCALE: NTS

NOTE REGARDING NATIONAL ACCOUNTS: REFER TO A1.0, GENERAL NOTES (ARCHITECTURAL SHEETS) FOR A LIST OF <u>REQUIRED</u> NATIONAL ACCOUNT VENDORS FOR LIGHTING, SWITCHGEAR, ENERGY MANAGEMENT SYSTEM, AND CABLE TRAY SYSTEMS. THE CONTRACTOR SHALL PURCHASE ALL REQUIRED SYSTEMS FROM THE REQUIRED NATIONAL ACCOUNT VENDOR.

щ

L. MARTIN, P.E 0252 LD. MISSOURI 65808

P.O. BOX 10252 SPRINGFIELD, MISSOUF

> TYPE C WILLIS ROAD WILLIS, WASHTENAW COUNTY, MICHIO

DAN
MARTIN
ENGINEER
JAO-ESSION

NOV 19, 2021

ENGINEER: Daniel L. Martin
LICENSE #: 6201064277

DRAWN:
CHECKED:
DATE: 10/29/2020

DATE: 10/29/2020
REVISION: 11/25/2020
REVISION: 11/09/2021
REVISION: 11/19/2021
REVISION:
JOB #: 2020-172

₹ □ SHEET #:

E2

RO	OM				VOL	ΓS 240/	120	0V 1	-PH	3W	AIC 30	,000		
МО	UNTING	FLUSH			BUS	AMPS	60	00			MAIN B	KR M	LO	
FEC	FROM	MAIN DISC.			NEU ⁻	TRAL 10	000	%			LUGS :	STAND	ARD	
NO ⁻	ΓΕ										ISO GN	D BUS		
KT	CKT					LOAD		LO	٠				СКТ	СКТ
#	BKR	CIRCUIT DE	SCRIP	TION		KVA		ΚV		CIRCUIT D	ESCRIPTION		BKR	#
1	60/2	RTU-1				8.35	а	0.1		AUTOMATI	C DOOR		20/1	2
3							b	0.1	3	TELEPHON	E BOARD		20/1	4
5	60/2	RTU-2				8.35	а	0.1	3	ENERGY M	ANAGEMENT		20/1	6
7								0		SPARE			20/1	8
9	60/2	RTU-3				8.35		0.7	2	ROOFTOP			20/1	10
1								0.4		1	DRINK VEND.		20/1	12
3	60/2	RTU-4				8.35	ł	11		MUH			40/2	14
5							b	į.						16
7	20/1	SPARE				0		0.5		ł	EQUIPMENT		20/1	18
9	20/1	SPARE	TED			0		0.5		1	HUB EQUIP		20/1	20
1	20/1	WATER HEA		A 181		1.65	1	1	,	CCTV EQUI			20/1	22
3 5	20/1 20/1	DRINKING F				0.37 0.4		0.1	3	SECURITY OFFICE RC			20/1 20/1	24
5 7	20/1	COOLER #1	וסוטוו	ΞR		1		0.5	1	1	OM RECEPT.		20/1	28
9	20/2	COOLER#1						0.3	+	DEDICATE			20/1	30
1	20/2	COOLER #2				1		0.5		SPARE	J KOL I		20/1	32
3		JOGGE IN #2				'	1	0.2		ICE CREAM	I FRFF7FR		20/1	34
5	20/1	COOLER #3				1.3		0.9	3	1	E, RECEPTACL	E	20/1	36
37	20/1	SPARE				0		0.3		RECEPTAC			20/1	38
89	20/2	COOLER #4				1.3		32.		PANEL B			200/2	40
.1							а							42
		CONN.	KVA	CALC.	KVA	_					CONN. KVA	CAL	C. KVA	
GΕΝ	I. LIGHT	ING 0		0			C	CON	ΓINU	JOUS	3.75	4.69	(12	25%)
P	REA (S	Q. FT.) 0 SF					Ν	ION	CON	ITINUOUS	10.7	10.7	(10	00%)
	HTING	4.06		5.07	,	25%)	K	ITC	HEN	I EQUIP	0	0	•	/A)
		MOTOR 5.3		1.33	•	25%)				N/DIVERSE	0	0	•	/A)
	IER MO			3	,	00%)		PPL	IAN	CES	24.2	24.2	(10	00%)
	EPTAC			3.78	,	50%>10)								
	DLING	33.4		33.4	,	100%)								
1E <i>P</i>	TING	18.6		0	(()%)	_	OTA	ı k	١/٨	90.8	86.1		-
							١	OIF	LK					
										BALANCE 1	D PHASE AMP	'S 359 HASE I	3 96.8°	%
AN	EL A NO	DTES:												
		RIES RATED AT 200),000 AN	IPS WITH B	BUSSMA	ANN JJN FL	JSE	ĒS.						
REA	KERS THA	T SERVE HVAC EQ	JIPMEN	T AND MOT	FOR LC	ADS (COO	LEF	RS, F	REEZ	ERS, ETC.) SHA	LL BE HACR.			
REA	KERS 2, 4,	6, 21, 24, 25, 26, 27	29, 31,	33, 34, 35,	36, SHA	ALL BE LOC	CKA	BLE.						
ONF	IRM CIRC	JIT BREAKER SIZE	AND WIF	RING WITH	FINAL	EQUIPMEN	NT S	SELE	CTED).				

RO	OM		VC	DLTS 240/	120	0V 1-PH	3W	AIC 30,	,000		
МО	UNTING	FLUSH	BU	JS AMPS	20	00		MAIN B	KR MI	LO	
FED	FROM	Α	NE	UTRAL 1	00	%		LUGS S	STAND	ARD	
NO								ISO GNI			
CKT	СКТ			LOAD		LOAD				CKT	СК
#	BKR	CIRCUIT DESCRIF	PTION	KVA		KVA	CIRCUIT D	ESCRIPTION		BKR	#
1	20/1	NIGHT EMERGENO NIGHT LIGHTS	CY LIGHTS,	0.14	а	1.2	PWR TERM	1 BROWN		20/1	2
3	20/1	RECEIVING LIGHT	TS	0.15	b	1.2	PWR TERM	1 BROWN		20/1	4
5	20/1	70% SALES EMER LIGHTS, LIGHTS		0.315		1.2	PWR TERM			20/1	6
7	20/1	70% SALES EMER LIGHTS, LIGHTS		0.28		1.2	PWR TERM		20/1	8	
9	20/1	70% SALES LIGHT		0.35		1.6	PWR TERM			20/1	10
11	20/1	70% SALES LIGHT		0.28	1	1.6	PWR TERM	_		20/1	12
13	20/1	30% SALES LIGHT		0.56	1	0.18	RECEPTAC			20/1	14
15	20/1	30% SALES EMER LIGHTS, LIGHTS	GENCY	0.56		0.88	COOLER R		20/1	16	
17	20/1	SPARE SPARE	/ LICUTO	0	1	1.18	FREEZER F		20/2	18	
19 21	20/1	BREAK/OFFICE E.		0.032	b a	3.9	FREEZER #		20/2	20	
23	20/1	BUILDING SIGN		1.2	Ь					1	24
25	20/1	PYLON SIGN		0.9	1	3.2	FREEZER #2			20/2	26
27	20/1	POLE LIGHTS		0.441	b		FREEZER #3			-0/-	28
29	20/2	RECEPTACLE		0.18	1	3.2				20/2	30
31	1 1	11202		0.10	b		, , , ,	, 0		1	32
33	20/1	EXT. LIGHTS		0.074	1	1.6	SODA COC)I FR		20/1	34
35	20/1	EXT. LIGHTS, LIGH	HTS	0.47		1.6	DRINK CO			20/1	36
37	20/2	FREEZER #4		2.6	1	0	SPARE	JEEN		20/1	38
39	1 20/2	THE LEEK WIT		2.0		0	SPARE			20/1	40
41	20/1	DUSK/DAWN EXT.	LIGHTS	0.111		0	SPARE			20/1	42
	1						1				
		CONN. KVA	CALC. K\	/A_	_	·		CONN. KVA	CALC	C. KVA	
	N. LIGHT		0		C	ONTINU	JOUS	2.1	2.63	(12	25%)
	•	Q. FT.) 0 SF			Ν	ONCO	NTINUOUS	8	8	(10	00%)
LIG	HTING	4.06	5.07	(125%)	K	ITCHEN	I EQUIP	0	0	(N	/A)
		IOTOR 0	0	(N/A)	Ν	IONCOI	N/DIVERSE	0	0	,	/A)
OTH	HER MO	TORS 0	0	(100%)	Α	PPLIAN	CES	17.8	17.8	(10	00%)
REC	CEPTAC	LES 0.72	0.72	(50%>10)							
	OLING	0	0	(N/A)							
HEA	ATING	0	0	(N/A)							_
					Т	OTAL K	VA	32.7	34.2		
							BALANCE PHASE A 9	ED PHASE AMP 95.8% PH	S 143 HASE E	3 104%	6
PAN	EL B NC	OTES:									
AIC D	ATING OF	22K MINIMUM OR SERIES	DATED EOD 200		/ITL	1014661		SES WHEDE HIGHE	D DATINI		IIDED

ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE CIRCUIT CONDUCTORS. THIS MEANS ALL

2/0 BARE COPPER GROUNDING

BOND TO METALLIC GAS PIPE (IF

BUILDING STRUCTURAL

STEEL (NEC 250.104)

CADWELD

ELECTRODE CONDUCTOR (NEC 250.66)

APPLICABLE) WITH #8 (NEC 250.104)

CONFIRM CIRCUIT BREAKER SIZE AND WIRING WITH FINAL EQUIPMENT SELECTED.

1. WHERE CONDUITS ARE NEAR OTHER UTILITIES, MAINTAIN MIN.

2. MAINTAIN MIN. 2" CLEARANCE BETWEEN CONDUITS

12" CLEARANCE.

CADWELD —

CONDUITS MUST HAVE A "GREEN" WIRE INSTALLED IN THEM, AND SIZED IN ACCORDANCE WITH N.E.C.

ELECTRICAL LOADS							
LOAD CATEGORY	CONNECTE D LOAD (VA)	DEMAND FACTOR	DEMAN LOAD (V				
GENERAL LIGHTING LOAD (NEC 220.12, 220.42, GREATER THAN CONNECTED LOAD)	23,335	1	23,3				
CONNECTED INTERIOR LIGHTING (LESS THAN NEC 220.12 LOAD)	3,136	0					
CONNECTED EXTERIOR LIGHTING	1,026	1.25	1,2				
LARGEST MOTOR	5,304	0.25	1,3				
RECEPTACLES - TOTAL	2,520						
1ST 10 kVA	2,520	1	2,5				
ABOVE 10 kVA	0	0.5					
HVAC (4) 5-TON UNITS WITH GAS HEAT	33,408	1	33,4				
OTHER: CONTINUOUS	3,750	1.25	4,6				
OTHER: NON-CONTINUOUS	13,650	1	13,6				
APPLIANCES	21,000	1	21,0				
TOTAL	78,490		101,2				
	AMPS	@ 240V 1Ø	4				

FAULT CURRENT SCHEDULE										
DEVICE	FAULT	AIC	L-N	FEEDER						
		RATING	VOLTS	SIZE	LENGTH					
UTILITY TRANSFORMER	29,901		120V							
CT CABINET	25,441		120V	(3)#250kcmil AL	25'					
MAIN DISC.	25,205	30,000	120V	(3)#3/0	2'-0"					
Α	24,972	30,000	120V	(3)#3/0	2'-0"					
В	24,446	30,000	120V	#3/0	2'-0"					

TRANSFORMER WITH 1.6% IMPEDANCE. IF THE TRANSFORMER WILL BE LARGER AND/OR HAVE A LOWER IMPEDANCE, CONTACT THE ENGINEER FOR A REVISED CALCULATION. 2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DURABLE, PERMANENT SIGN AT THE MAIN DISCONNECT INDICATING THAT THE AVAILABLE FAULT CURRENT WAS CALCULATED TO BE 26,000 AMPS. THE CALCULATION WAS PERFORMED ON 10-29-2020.

HAND RUB FINISHED NOTES:

HAND HOLE

3"x5" GASKETED

1. MIN. DISTANCE TO TRENCHING

IS 6'

OR OTHER SOIL DISTURBANCE

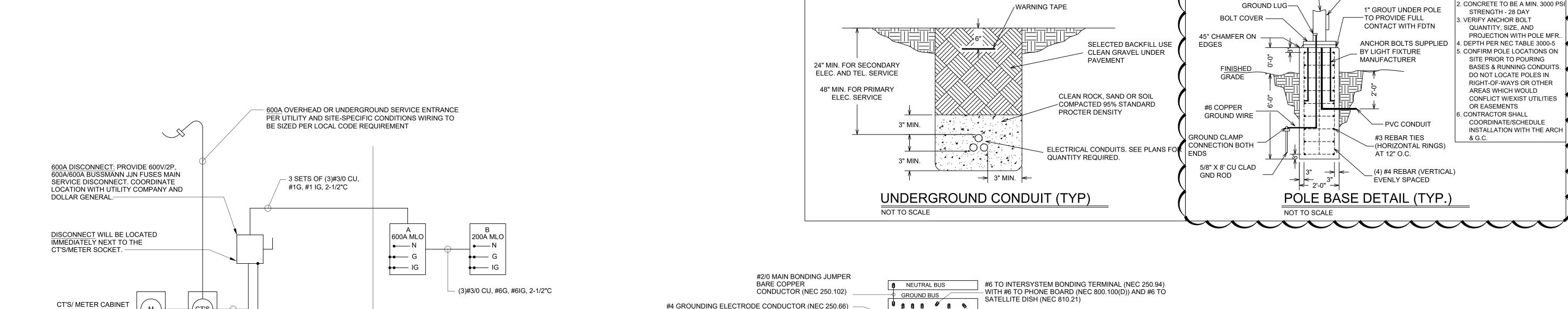
EXPOSED CONCRETE

SURFACES

POLE, SEE

SCHEDULE

1. THE CALCULATIONS ARE BASED ON INFINITE BUS AND A 112.5 kVA



#4 GROUNDING ELECTRODE CONDUCTOR (NEC 250.66)

BUILDING WALL FOOTING, (NEC 250.52(3)) —

COLD WATER SERVICE ENTRANCE

(IF METALLIC), (NEC 250.53(D))

MINIMUM OF 20'-0" OF 1/2" REBAR IN

3/4" X 10' GROUND ROD (NEC 250.52(5))

² GROUNDING AND BONDING FOR 600 AMP SERVICE E5 SCALE: NTS

ELECTRICAL CODE.

PIPE CLAMP

(TYP.)

NOTE: ALL GROUNDING SHALL BE INSTALLED IN

ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL

NOTE REGARDING NATIONAL ACCOUNTS: REFER TO THE PROJECT COVER SHEET(S) (ARCHITECTURAL SHEETS) FOR A LIST OF REQUIRED NATIONAL ACCOUNT VENDORS FOR LIGHTING, SWITCHGEAR, ENERGY MANAGEMENT SYSTEM, AND CABLE TRAY SYSTEMS. THE CONTRACTOR SHALL PURCHASE ALL REQUIRED SYSTEMS FROM THE REQUIRED NATIONAL ACCOUNT VENDOR.

NOV 19, 2021

ENGINEER: Daniel L. Martin LICENSE #: 6201064277

> DRAWN: CHECKED:

DATE: 10/29/2020 REVISION: 11/25/2020 Z ⊆ REVISION: 10/29/2021 REVISION: 11/09/2021 REVISION: 11/19/2021 JOB #: 2020-172 ₹ ₹ ₾ | SHEET #:

EXTERIOR -

→ INTERIOR

2/0 GROUNDING ELECTRODE

CONDUCTOR, SEE 2/E5

- 600A UNDERGROUND SERVICE

WIRING TO BE SIZED PER LOCAL

ENTRANCE PER UTILITY AND

SITE-SPECIFIC CONDITIONS

CODE REQUIREMENT

- 3 SETS OF (3)#250, AL, 3"C

PER UTILITY COMPANY

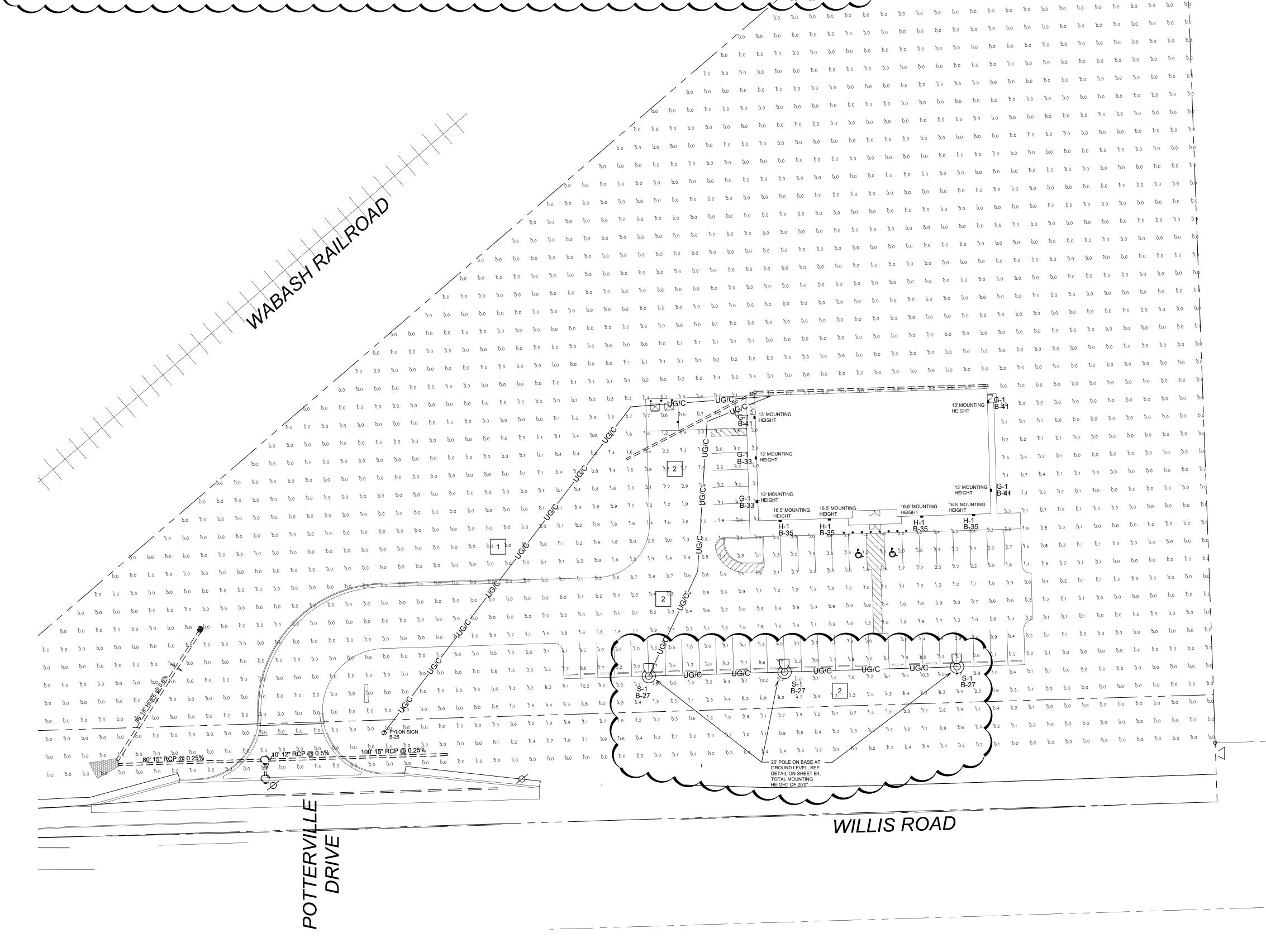
REQUIREMENTS

LUMI	LUMINAIRE SCHEDULE (SEE NOTES REGARDING REQUIRED NATIONAL ACCOUNT VENDORS)											
CALLOUT	SYMBOL	DESCRIPTION	MODEL	INPUT WATTS	NOTES	QTY						
G-1	-	FULL CUTOFF LED WALL PACK LIGHT FIXTURE	USLED: WPR3-UNVL-37-4-50-BZ	37		5						
H-1	-	FULL CUTOFF LED WALL PACK LIGHT FIXTURE	USLED: WPR3-UNVL-100-4-50-BZ	100		4						
S-1	8	SINGLE FIXTURE POLE LIGHT ON 20' TALL POLE	US LED:QDXLR-150-50-UNVL-1-3-N-Z5	147	20' POLE: US-SSS20B4-4-BM	3						

NOTE: THE E.C. IS RESPONSIBLE TO COUNT AND CONFIRM THE QUANTITIES OF THE FIXTURES IN THE PLANS PRIOR TO ORDERING.

EXTERIOR LED LIGHT HEADS ARE COVERED ON FOUR SIDES PLUS THE BACK WITH THE LIGHT BEING PROJECTED IN ONE DIRECTION. LIGHT HEADS MOUNTED AND POINTING IN A DOWNWARD DIRECTION ACCOMPLISHES, 6.0 5.0 5.0 5.0

SEE SPECIFICATION ON SHEETS E7, E8,E9, & E10





SITE UT	TILITY LEGEND	SITE UT	TILITY LEGEND
— ss —	SANITARY SEWER	— FO —	FIBER OPTICS
— BS —	BUILDING SEWER	E	ELECTRIC METER
w	WATER PIPING	G	GAS METER
— GAS —	GAS PIPING	W	WATER METER
——UG/E ——	UNDERGROUND ELECTRIC	Ħ	FIRE HYDRANT
——OH/E ——	OVERHEAD ELECTRIC		PAD MOUNT TRANSFORMER
——UG/C——	UNDERGROUND CONDUIT	МН	MANHOLE
——UG/S ——	UNDERGROUND SLEEVE	■ COTG	CLEANOUT TO GRADE
т	TELEPHONE	•0016	

#	KEYNOTES	
1	1" CONDUIT TO PYLON SIGN.	
2	1" CONDUIT TO POLE LIGHTS.	

OR ACROSS PROPERTY LINES.

 $\tilde{\Box}$

ENGINEER: Daniel L. Martin LICENSE #: 6201064277

DRAWN: CHECKED: DATE: 10/29/2020 REVISION: 11/25/2020 **REVISION**: 09/22/2021 REVISION: 11/09/2021 REVISION: 11/19/2021

> JOB #: 2020-172 SHEET #:

Know what's **below. Call** before you dig. FIELD VERIFY AND COORDINATE ALL UNDERGROUND UTILITIES WITH STORM WATER DETENTION AND DRAIN PIPING TO AVOID CONFLICT/INTERFERENCE.

below.

New Build Product Information

Data and Install Guides

US LED | 6807 PORTWEST DRIVE | HOUSTON, TX 77024 | T 713 972 9191 | F 713 972 9393 |

Key Features

fluorescent or HID fixtures.

and minimizes glare.

Mounting -

Ordering Information -

Elegant yet rugged construction effortlessly

mechanism that allows for precise aiming.

Night sky friendly: eliminates light pollution

120-277VAC. 0-10V dimming standard. ²

Luminaire is ready to be surface mounted.

DoradoXLE 2

Outdoor LED Area/Site Luminaire

System power factor >90% and THD <20%.

integrates with existing architecture.

Industry leading 10-Year warranty.

Photocell/motion sensor available. Operating temperature: -40°C to +40°C

Adjustable, full-cutoff design with a tilt

QubePAK Regal 3
Architectural Outdoor LED Wall Pack



Modern LED replacement for traditional

Warranty

10-year warranty.

 Robust die-cast aluminum housing protects integral components from harsh environments and optimizes thermal management.

Type II or Type IV optical distribution.

and 5000K CCT (minimum 70 CRI).

Backed by US LED's industry leading

www.usled.com | 866-972-9191 | customerservice@usled.com

Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

Industry leading LEDs with 3000K, 4000K,

Perimeter Areas Educational Facilities Building Exteriors Business Campuses Housing is protected by a corrosion resistant Security Lighting Industrial Facilities Mall/Retail Exteriors bronze powder coat finish. Wall Washing IP65 rated enclosure prevents intrusion from Parking Lots General Lighting environmental elements that could degrade **Product Certifications/Approvals**



Complies with UL1598 and CSA C22.2
 DLC Premium Listed

Suitable for Wet Locations

Models 200W / 240W / 300W

Product Performance Summary

Efficacy Up to 142 LPW

Warranty 10-Year Warranty

CRI ≥ 70 CRI

Product Overview

Lumen Output Up to 14,007 lumens

Available CCT 3000K, 4000K & 5000K

The QubePAK Regal 3 LED wall pack is designed to easily integrate into any existing architecture

and provide superior illumination. With two optical distributions, the QubePAK Regal 3 provides a complete site-wide solution for commercial exterior

applications. Its elegant aesthetics combined with

first-class performance make it a popular choice

with specifiers and lighting designers.

Product Applications



Example: WPR3-UNVL-37W-2-50-BZ

JSLED





QubePAK Regal3
Architectural Outdoor LED Wall Pack



SLED

Type V Distribution

70-100W Models

Performance Data

37W 2.87 lbs. (1.3kg)

Dimensions

Model	Available CCT	System Level Power	Delivered Lumens	Efficacy	L70 Calculate Life
WPR3-UNVL-37-X-XX-BZ	3000K/4000K/5000K	37.1W	4,701 lm	126 LPW	100,000 Hours
WPR3-UNVL-58-X-XX-BZ	3000K/4000K/5000K	58.4W	7,695 lm	132 LPW	100,000 Hours
WPR3-UNVL-70-X-XX-BZ	3000K/4000K/5000K	71.8W	10,201 lm	142 LPW	100,000 Hours
WPR3-UNVL-100-X-XX-BZ	3000K/4000K/5000K	104.5W	14,007 lm	134 LPW	100,000 Hours

www.usled.com | 866-972-9191 | customerservice@usled.com

Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

All photometric testing performed to IESNA LM-79 standards by a NVLAP® accredited testing facility. ISO footcandle plots below demonstrate examples of the

general distribution patterns based on a 25' mounting height. Please visit www.usled.com for complete specifications, IES files, and detailed photometric data.



QUBEPAK REGAL 3 (WPR3)

INSTALLATION INSTRUCTIONS



WARNING

· The installation must only be performed by a licensed electrician. • To prevent death, injury or damage to property, this product must be installed in accordance to National Electric Code (NFPA70 in the US or Canadian Electrical Code (CSA22.1) in Canada.

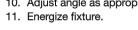
• Disconnect power before installing the product or servicing it. · Wait until fixture has cooled down before installing or servicing the fixture. • Make sure that the fixture is grounded.

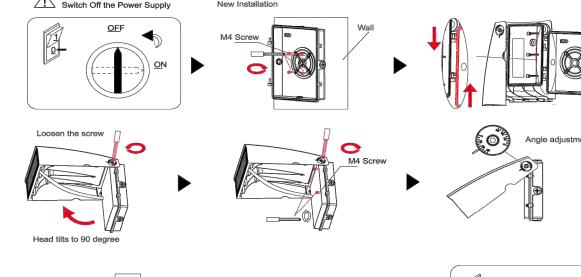
· Modification to the WPR3 fixture voids its warranty and UL Listing. Caution - Risk of fire. Min. 75°C supply conductor

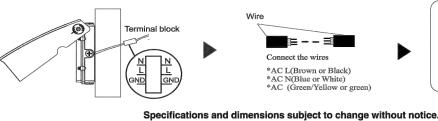
 Suitable for wet locations. • Suitable for operation in ambient not exceeding 50°C.

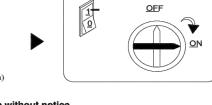
INSTALLATION INSTRUCTIONS

- 1. Verify power is disabled.
- 2. Remove fixture from carton. 3. Loosen the two captive screws opposite the hinge side.
- 4. With hing to the left, open cover approximately 120 degrees and slide cover away, to remove cover from the hinge pins. 5. Feed wires from line power through applicable conduit holes and mount fixture base to wall according to local codes using appropriate mounting hardware. Junction box, conduit, conduit fittings and mounting hardware are not supplied. Use fittings suitable for wet location
- (Type 4 or 4x). Use UL Listed fittings. 6. Slide cover onto base by aligning hinges.
- Mate LED module wire connections.
- 8. Reconnect ground wire. 9. Close cover, use caution not to pinch wires, and secure with two screws opposite the hinge.
- Adjust angle as appropriate.









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DoradoXLE 2

Outdoor LED Area/Site Luminaire



Key Features -

- Outdoor applications benefit from superior
 Robust die-cast aluminum housing protects photometric performance and uniformity.
- Low profile design provides a contemporary appearance and is night sky friendly.
- Precision molded optics are sealed to
- · Easy installation by one person in the field. Photocell and motion sensor accessories are available to be installed.

Electrical ————

- 120-277V or 347-480V available. 0-10V dimming standard.
- 10kV surge protection standard. System power factor >90% and THD <20%.

Operating temperature: -30°C to +40°C

Mounting —

Ordering Information

options available.

QDXLE2

(-30°F to +104°F)

- integral components from harsh environments Housing is protected by a corrosion resistant
- powder coat finish. protect against environmental contaminants. • Standard dark bronze finish. Custom colors available by request.
 - IP66 rated enclosure prevents intrusion from environmental elements that could degrade performance.
 - Optics IP67 rated LED light engine prevents dust or
 - moisture from degrading performance. Precision molded optics available in Type II, Type III, Type IV, or Type V distributions. Industry leading LEDs with 3000K, 4000K,
- ——— Warranty Slip fitter, pole mount, or trunnion mounting
 Product is backed by US LED's industry-

and 5000K CCT (minimum 70 CRI). Lumen Maintenance: >60,000 hours (L70) ¹ leading Ten-Year Warranty.

idusti y-		RoHS					
Example	: QD	XLE2-200-50-UI	VVL-1	-3-N-Z2-X1			
Photocell		Mounting		Driver	Acc	essories	
No Photocell Photocell Motion Sensor	Z1 Z2 Z3	Adjustable For Square Pole and Round Pole - 4" Nominal Slip Fitter	X1 X2 ⁴	Standard High Temperature	ISS	Back Light Shield House Side Shield	
	Z4	For 2 ³ / ₆ " Round Tenon					9

		·	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		T	1	Shield
250	240W		Zs	3	Trunnion		
300	300W ³		Z4		For 2 ³ / ₈ " Round Tenon		
The lifetimes are solely 2. Custom colors availab	/ meant to be a guide for ex le upon request.	Dight engine, not the power source, and are based on the expected LED degradation and not a warranty or predictive be used in operating temperatures beyond +35°C (95°F).	e of their actual life, which can be affected by			ambient te	amperature.
			00.070.0404 t				

Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

Lumen Output Up to 40,030 lumens CRI ≥ 70 CRI

Product Performance Summary

Warranty 10-Year Warranty

Available CCT 3000K, 4000K & 5000K

Product Overview The DoradoXLE 2 delivers an outstanding end-user experience by effortlessly combining outstanding photometric performance and long-lasting quality. It's designed to provide a superior one-to-one solution for replacing existing legacy lighting technology. With lumen packages ranging up to 40,000 lumens and multiple mounting options available, the DoradoXLE 2 can be a complete lighting solution for any outdoor application.

Product Applications Auto Dealerships • Mall/Retail Areas Parking Lots

 Commercial Exteriors Educational Facilities • Industrial Facilities Business Campuses • Security Areas Recreational Areas • Site Pathway Areas

Product Certifications/Approvals

 ETL Listed for US & Canada. Complies with UL1598 and CSA C22.2. DLC Premium Listed. IP66 Rated Enclosure.



EPA (FT.2)	Configura	tion	Weight (lbs.)
0.36	PET 1	11.46	3
0.72	2@1	80	22.92
0.62	2@9	90	22.92
0.98	3@9	90	34.38
0.87	3@1	20	34.38
0.98	4@9	0	45.84

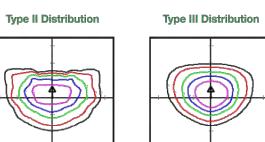
3.82"	26.47"
Net Weight EPA Rating 10.46 lbs. 0.36	Net Weight EPA Rating 20.00 lbs. 0.48
EPA (FT.²) Configuration Weight (lbs.)	EPA (FT.²) Configuration Weight (lbs.)
0.36	0.48
0.72 2@180 22.92	0.96 2@180 40.00
0.62 22.92	0.79 40.00
0.98 34.38	1.27 60.00
0.87 3@120 34.38	1.33 3@120 60.00
0.98 45.84	1.27

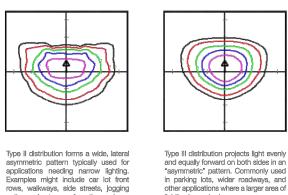
www.usled.com | 866-972-9191 | customerservice@usled.com

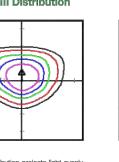
Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

DoradoXLE 2 Outdoor LED Area/Site Luminaire

paths, and entrances from the roadway.

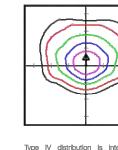






other applications where a larger area of

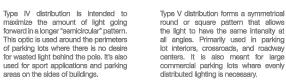
lighting is required.





292.4 W 40,030 Lm 137 LPW >60,000 Hours

Type IV Distribution



centers. It is also meant for large commercial parking lots where evenly distributed lighting is necessary.

nance Data -					
Model	ССТ	System Level Power	Delivered Lumens	Efficacy	L70 Calculate Life
	3000K	105.2 W	13,275 Lm	126 LPW	>60,000 Hours
100W	4000K	105.2 W	14,070 Lm	134 LPW	>60,000 Hours
	5000K	105.2 W	14,860 Lm	141 LPW	>60,000 Hours
	3000K	120.2 W	14,590 Lm	121 LPW	>60,000 Hours
120W	4000K	120.2 W	15,470 Lm	129 LPW	>60,000 Hours
	5000K	120,2 W	16,340 Lm	136 LPW	>60,000 Hours
	3000K	148.6 W	18,570 Lm	125 LPW	>60,000 Hours
150W	4000K	148.6 W	19,680 Lm	132 LPW	>60,000 Hours
	5000K	148.6 W	20,790 Lm	140 LPW	>60,000 Hours
	3000K	188.4 W	26,190 Lm	139 LPW	>60,000 Hours
200W	4000K	188.4 W	27,750 Lm	147 LPW	>60,000 Hours
	5000K	188.4 W	29,320 Lm	156 LPW	>60,000 Hours
	3000K	247.6 W	31,320 Lm	127 LPW	>60,000 Hours
240W	4000K	247.6 W	33,190 Lm	134 LPW	>60,000 Hours
	5000K	247.6 W	35,060 Lm	142 LPW	>60,000 Hours
	3000K	292.4 W	35,760 Lm	122 LPW	>60,000 Hours
300W	4000K	292 4 W	37 900 l m	130 I PW	>60,000 Hours

PDXLE2 70120	www.usled.com 866-972-9191 customerservice@usled.com Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specification

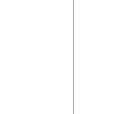
DoradoXLE 2

Mounting Options

Outdoor LED Area/Site Luminaire



Z3 | Trunnion Mount



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Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

LED



Z4 | Mount For 2 3/8" Round Tenon



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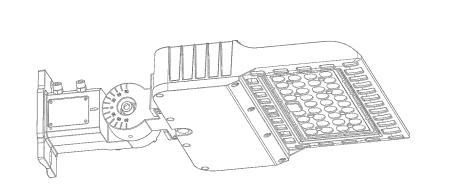
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GENERA

DoradoXLE2 (QDXLE2)

INSTALLATION INSTRUCTIONS





WARNING RISK OF ELECTRIC SHOCK

• Disconnect or turn off power before installation or servicing. • Verify that supply voltage is correct by comparing it with the luminaire label Make all electrical and grounded connections in accordance with the

National Electrical Code (NEC) and any applicable local code requirements. · All wiring connections should be capped with UL approved recognized



Allow lamp/fixture to cool before handling.

 Do not exceed maximum wattage marked on luminaire label. • Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement



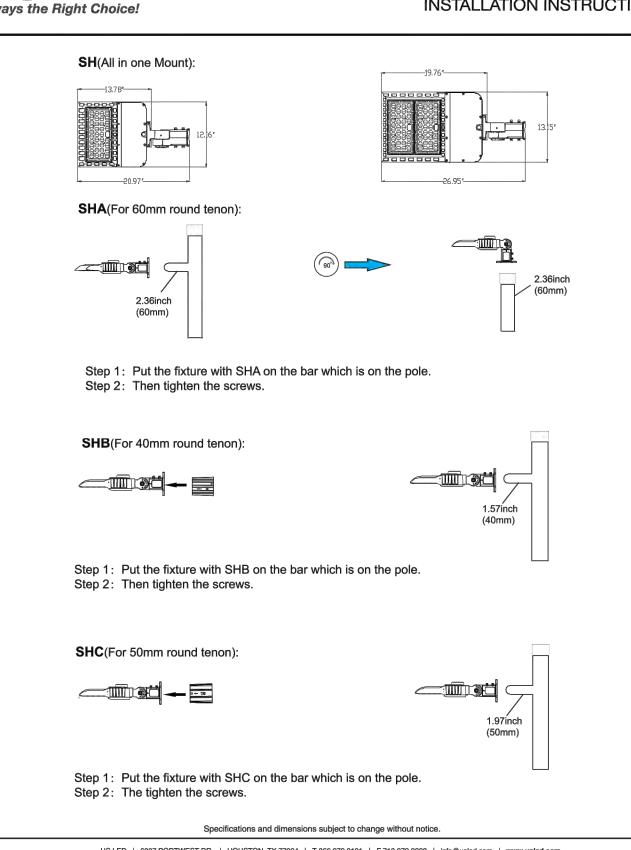
WARNING RISK OF FIRE

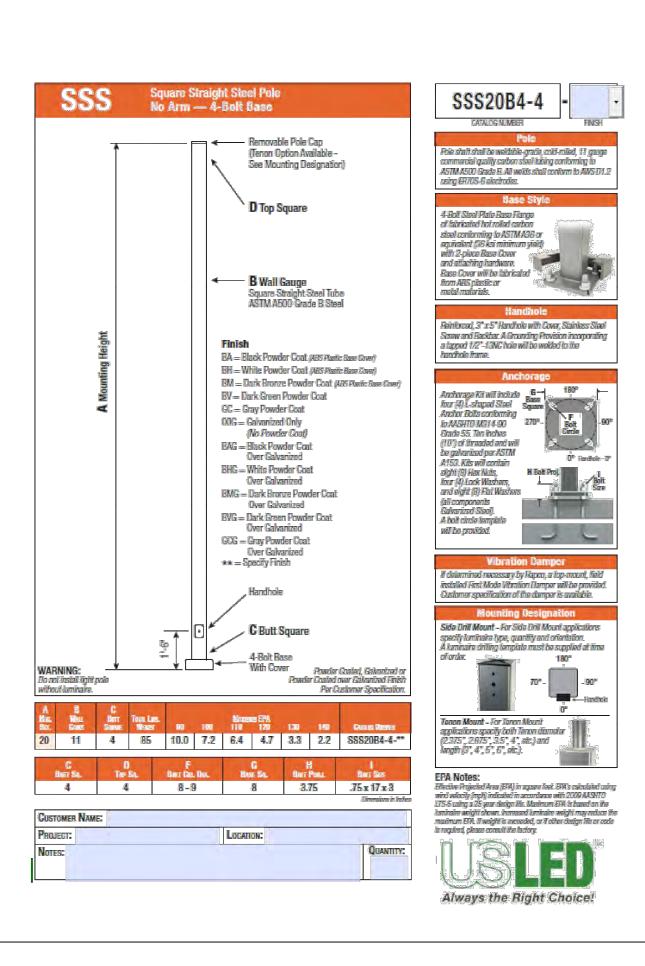
Keep combustible and other materials that can burn, away from lamp/lens.

Specifications and dimensions subject to change without notice.



DoradoXLE2 (QDXLE2)







DoradoXLE2 (QDXLE2)

ON-OFF WIRING

BLACK

Specifications and dimensions subject to change without notice.

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LIGHT

FIXTURE

(-)COMMON☐ WHITE

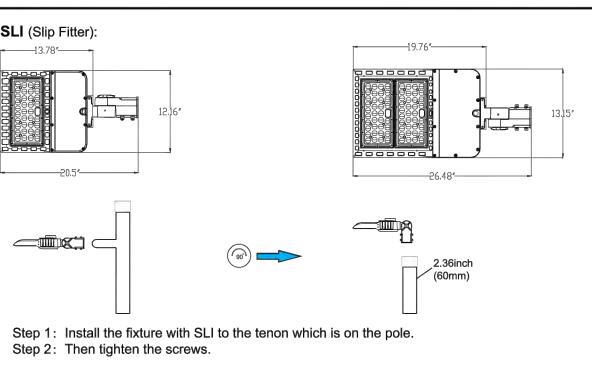
GROUND GROUND

Step2. Confided the write lixible lead to the (-)Colvinion supply le

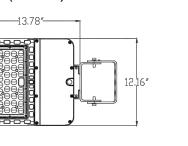
INSTALLATION INSTRUCTIONS

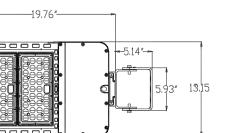
DoradoXLE2 (QDXLE2)

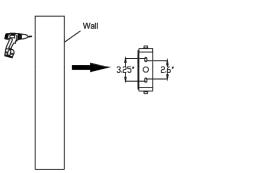
INSTALLATION INSTRUCTIONS

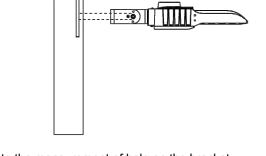












Step 1: Drilled on the wall or pole according to the measurement of hole on the bracket. Step 2: Put the fixture with TRU on the wall and tighten the screws.

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Mounting Options



Slip-Fit Mount of S-Mount option



US-4-V-SingleTA, 4" single square vertical tenon



US-Double-S-180-4-BZ, Twin square vertical tenon for 4" Square pole, Two 2 3/8" vertical



PS-MOUNT-BZ POLE MOUNT

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NOV 19, 2021

出る 片 ENGINEER: Daniel L. Martin E > Z LICENSE #: 6201064277

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JOB #: 2020-172

 Image: Sheet #:

Specifications and dimensions subject to change without notice.



IMPORTANT SAFETY INSTRUCTIONS

• To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all

 Before installing, servicing, or performing routine maintenance up on this equipment, follow these general precautions. · Installation and service of luminaires should be performed by a qualified · Maintenance of the luminaires should be performed by person(s) familiar

with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended. • It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light

output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary. • DO NOT INSTALL DAMAGED PRODUCT! This luminaire has been properly

to confirm. Any part damaged or broken during or after assembly should be replaced. • These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in

connection with installation, operation, or maintenance.

WARNING RISK OF INJURY

 Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance. • Avoid direct eye exposure to the light source while it is on.

• Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

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INSTALLATION INSTRUCTIONS

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Specifications and dimensions subject to change without notice.

Step 1: Drilled on the pole according to the measurement of hole on the bracket. Step 2: Put the adaptor (standard adaptor or adjustable adaptor) into the pole,

then put the fixture with DAM on the pole and tighten the screws.

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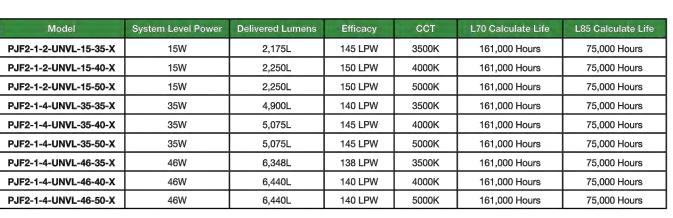
New Build Product Information

Data and Install Guides

PJF2 **Product Performance Summary** Linear LED Strip Light men Output Up to 6,440 lumens Efficacy Up to 150 LPW ailable CCT 3500K, 4000K, or 5000K arranty 10-Year Warranty Utilizing patented LED technology, the PJF2 is a low-profile linear solution that offers outstanding value and energy efficiency without compromising illumination. Designed for versatility, the PJF. rovides best-in-class performance for virtually any indoor lighting need. It's Ideal for lighting up manufacturing, commercial, warehouse, retail, or other display applications. · Available in 2 ft. or 4 ft. models. Housing is constructed from steel in a 161,000 hours L70 calculated life. standard white finish. Educational Facilities • Industrial/Warehouse Suspended or surface mounted. Lens is frosted acrylic for uniform ligh Convenience Stores • Mall/Retail Areas Designed to facilitate easier installations. distribution that's glare-free. Health Care Facilities Office Spaces Industry leading 10-Year warranty. Hallways/Corridors • Commercial Spaces Product Certifications/Approvals Electrical ETL Listed for US & Canada. Industry leading LEDs in 3500K, 4000K, or 120VAC input. Complies with UL1598 and CSA 22.2 Operating temperature: -30°C to +40°C 5000K CCT (minimum 80 CRI). Suitable for indoor damp Locations Luminaire is ready to be suspended or Backed by US LED's industry leading

Dimensions 600mm 46.85 in 1190mm (Side View) 30200 20 ft. Aircraft Cable Mounting Kit PJF2-AC-10 10 ft. Cable Mounting Kit - Set of 2 30202 10 ft. Aircraft Cable Mounting Kit (Sold Separately) (Power Cable Required, Sold Separately)

PJF2 LED Linear LED Strip Light Performance Data Zonal Lumen Summary PJF2-1-4-UNVL-35-XX-X Zone | Lumens | % Fixt 0-30 | 1215.96 | 23.35 0-40 | 1994.25 | 38.29 0-60 | 3563.90 | 68.43 0-90 | 4853.25 | 93.19 Total Input Watts 0-180 | 5208.78 | 100.00 Total Lumens 145 LPW Spacing Criterion 0°-180° = 1.70 | 90°-270° = 1.44 PJF2-1-2-UNVL-15-35-X 15W 2,175L 145 LPW 3500K 161,000 Hours PJF2-1-2-UNVL-15-40-X 150 LPW 161,000 Hours PJF2-1-2-UNVL-15-50-X 150 LPW 15W 161,000 Hours PJF2-1-4-UNVL-35-35-X 140 LPW 161.000 Hours



Accessories OPTION B PJF2 Shown With An Integrated Emergency Battery Back-Up

Always the Right Choice!

PJF2 **INSTALLATION INSTRUCTIONS**



IMPORTANT SAFETY WARNINGS /!\

o confirm. Any part damaged or broken during or after assembly should be

Maintenance of the luminaires should be performed by person(s) familiar with the

luminaires' construction and operation and any hazards involved. Regular fixture

Frequency of cleaning will depend on ambient dirt level and minimum light output

which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean

Should optical assembly become dirty on the inside, wipe refractor/lens and

These instructions do not purport to cover all details or variations in equipment

nor to provide every possible contingency to meet in connection with installation,

clean in above manner, replacing damaged gaskets as necessary.

• It will occasionally be necessary to clean the outside of the refractor/lens.

maintenance programs are recommended.

water and wiped dry.

operation, or maintenance.

THE INSTALLATION MUST ONLY BE PERFORMED BY A LICENSED ELECTRICIAN. TO PREVENT DEATH, INJURY OR DAMAGE TO PROPERTY, THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE TO NATIONAL ELECTRIC CODE (NFPA70) IN THE US OR CANADIAN ELECTRICAL CODE (CSA22.1) IN CANADA.

L'INSTALLATION NE DOIT ÊTRE EFFECTUÉE QUE PAR UN ÉLECTRICIEN AGRÉÉ. POUR PRÉVENIR LES DÉCÈS, LES BLESSURES OU LES DOMMAGES MATÉRIELS, CE PRODUIT DOIT ÊTRE INSTALLÉ CONFORMÉMENT AU CODE NATIONAL DE L'ÉLECTRICITÉ (NFPA70) AUX USA OU CODE CANADIEN DE L'ÉLECTRICITÉ (CSA22.1) AU CANADA.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.

CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA DÉRIVATION SONT ADÉQUATS.

SUITABLE FOR DAMP LOCATIONS. SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 45°C. CONVIENT AUX EMPLACEMENTS HUMIDES. PEUT ÊTRE UTILISÉ À UNE TEMPÉRATURE AMBIANTE N'EXCÉDANT PAS 45°C.

CAUTION - RISK OF FIRE. MIN 90°C SUPPLY CONDUCTORS. CLASS 2. CLASS 1 WIRE ONLY. ATTENTION - RISQUE D'INCENDIE. LES FILS D'ALIMENTATION 90 °C MIN. CLASSE 2. CLASSE 1 FIL SEULEMENT.

• To reduce the risk of death, personal injury or property damage from fire, electric • DO NOT INSTALL DAMAGED PRODUCT! This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect

shock, falling parts,cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels. Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling. Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.

Disconnect or turn off power before installation or servicing the luminaire. Allow lamp/fixture to cool before handling.

• Do not exceed maximum wattage marked on the label. • Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.

 Verify that supply voltage is correct by comparing it with the luminaire label All wiring connections should be capped with UL approved recognized wire

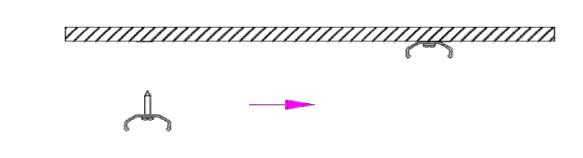


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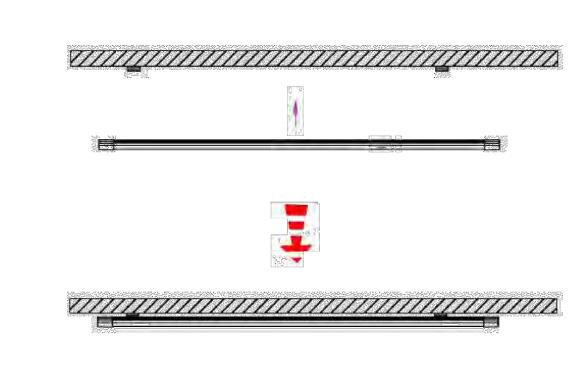
PJF2 INSTALLATION INSTRUCTIONS

CEILING INSTALLATION INSTRUCTIONS

1. Attach (2) snap joins to the ceiling with supplied bolts.



2. Install the PJF2 luminaire onto the (2) snap joints.



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PJF2

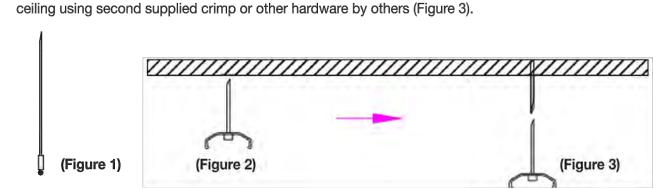
Linear LED Strip Light

PJF2 **INSTALLATION INSTRUCTIONS**

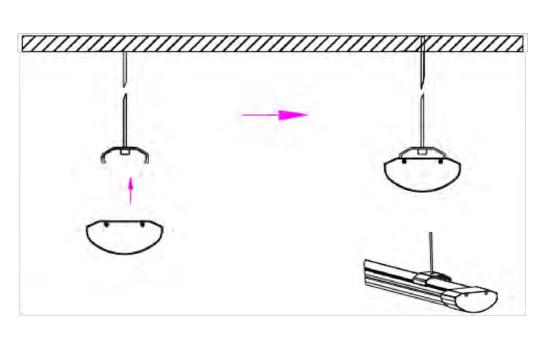
LED Always the Right Choice!

SUSPENDED INSTALLATION INSTRUCTIONS

1. Slide one the supplied crimps onto the wire rope all the way down until the ball at the bottom of the rope stops it (Figure 1). Assemble the wire ropes into the supplied snap points (Figure 2). Attach the wire ropes to the



2. Install the PJF2 luminaire onto the (2) snap joints.



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LED Thermoplastic **Exit Combo**



reliable LED lamp heads, this attractive low-profile

design offers maintenance-free, long life dependable service. Easily mounts above doors and in restricted

Combining LED exit illumination with

spaces to fit any application.

Easy to install, snap together design

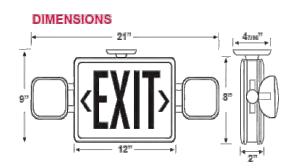
Suitable for damp location · Rugged, injection-molded UL94 V-0 flame retardant, high-temperature thermoplastic housing Universal style – includes 2 face plates, a back plate and mounting • LED combo exit where each of the lamp heads contain 12 long

 Charge rate/power "ON" LED indicator light with test button Low voltage disconnect eliminates deep discharge Brown-out, short circuit and voltage surge protection UL recognized maintenance-free NiCad battery Universal J-Box mounting system — Ceiling, wall or end mount - UL listed 90 minute emergency run time, 24 hour recharge time - Constant, uniform illumination by long-life, high intensity, red or green

 Overcharge protection Fully-illuminated 6" characters with 3/4" stroke Optional Self Test/Self Diagnostics (SDT) available Remote capable- up to 2 CLED remote heads Chevron-style, universal arrow knockouts 120/277V dual primary, 60Hz input

Standard finishes: Black and white

lasting, efficient, ultra-bright white LEDs



Any component that fails due to manufacturers defect is quaranteed for 3 years with a separate 5 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed

ORDERING INFORMATION

2 = UNIVERSAL

W=WHITE B = BLACK

LED Lamps

SDT = SELFTEST / DIAGNOSTICS RC = REMOTE CAPABILITY

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GENERA

○ 片 ENGINEER: Daniel L. Martin > Z LICENSE #: 6201064277

DRAWN: CHECKED: DATE: 10/29/2020 REVISION: 11/19/2021 ᄌ 阡 REVISION: REVISION: REVISION:

JOB #: 2020-172

SHEET #:



LED Emergency Light

Long lasting, efficient, ultra bright white LED lamp heads.

High performance chrome-plated metallized reflector and

Adjustable LED lamp heads provides optimal center-to-

Dual 120/277 voltage standard. Optional multi-tap

switch for mandated code compliance testing.

Charge rate/power "ON" LED indicator light and push-to-test

Internal solid-state transfer switch automatically connects

3.6V long life, maintenance-free, rechargeable NiCd battery.

the internal battery to LED lamp heads for minimum

Fully automatic solid-state, two rate charger initiates battery

charging to recharge a discharged battery in 24 hours.

Surface mount via easy connect back plate, which fits

most standard junction boxes and snaps into place making

center spacing. High-lumen option available for increased

ILLUMINATION

ELECTRICAL

MOUNTING

1W (8 LEDs x 0.125) per head.

center-to-center spacing.

208/220/240 voltage available.

90-minute emergency illumination.

internal electrical connections.

Suitable for wall or ceiling mount.

Top and side knockout for conduit applications.

Remote capacity standard.

plastic lens for optimal light distribution.

HOUSING

 Injection-molded, engineering grade, 5VA flame retardant, high-impact resistant, thermoplastic in white or black finish.

OPTIONS

- SDT: Self-diagnostic feature performs monthly, biannual, and annual tests to ensure reliable operation and meet electrical and life safety codes.
- HL 12-LEOs per head provide increased center to center spacing. SPV: UL Listed for special voltage option.

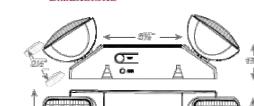
WARRANTY / LISTING

 Five year warranty on all electronics and housing. Battery pro rated for five years.

Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA,

Local and State Codes. UL Listed for damp locations (0°C – 50°C).

DIMENSIONS



ORDERING INFORMATION HOUSING COLOR

SDT Self-Diagnostics HL High-Lumen B Black SPV 208/220/240 volt, 50/60 Hz[†]

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Always the Right Choice!

LED Remote Heads

ILLUMINATION

lamp head.

(not provided).

ELECTRICAL

MOUNTING

HOUSING

Long lasting, efficient ultra-bright

 High-performance chrome-plated metalized reflector and plastic

tens (indoor applications) or

for optimal light distribution.

Adjustable LED lamp heads

increases center-to-center

spacing with 8 LEDs in each

Powered from low voltage power source with low voltage wiring

Universal mounting base mounts

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wire gauge and total maximum

Suitable for wall or ceiling mount.

heads are injection-molded,

engineering-grade, 5VA flame

retardant, high-impact resistant,

thermoplastic in white or black

Five year warranty on electronics

Meets UL924, NFPA 101 Life

Safety Code, NEC,OSHA, Local

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Lighting Products.

and State Codes.

to single-gang switch box.

Distance of maximum run is

wattage on the run.

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 Outdoor application remote heads are die-cast aluminum, Sealed and gasketed in gray or

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All voltages are available for INDOOR and OUTDOOR applications
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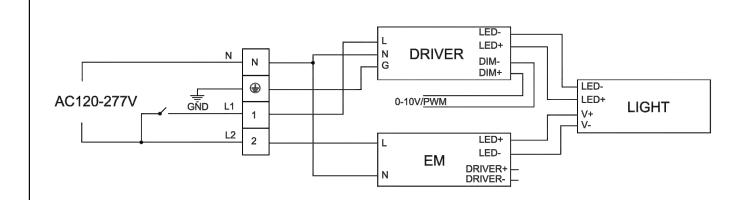
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PJF2

INSTALLATION INSTRUCTIONS

WIRING DIAGRAM



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Specifications and dimensions subject to change without notice.

GENERAL

MARTIN

NOV 19, 2021

ENGINEER: Daniel L. Martin ∑ Z LICENSE #: 6201064277

DRAWN:
CHECKED:
DATE: 10/29/2020
REVISION: 11/19/2021 REVISION: REVISION:

JOB #: 2020-172

REVISION:

SHEET #:



117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: October 5, 2021 Revised: November 3, 2021 December 8, 2021

Final Site Plan Review For Augusta Township, Michigan

Application #: SP-21-02

Applicant: Rodney Parrott, PE

Project Name: Dollar General

Plan Date: September 23, 2021

Location: North side of Willis Road, west of McKean Road, immediately east

of the railroad (T-20-01-395-005)

Zoning: GC, General Commercial

Action Requested: Final Site Plan Review

Required Information: As noted below.

PROJECT AND SITE DESCRIPTION

The applicant is proposing to develop a 9,100 square foot Dollar General and associated site improvements on the 5.23-acre subject property. The property is located immediately east of the Norfolk Southern / Wabash Railroad on the north side of Willis, west of McKean Road.

Retail uses are a permitted use in the GC, General Commercial district. A pre-application conference was held at the February 17, 2021, Planning Commission meeting. Preliminary site

plan review was conducted on April 21, 2021. This final site plan review is the last step in the Township's site plan review process.



AREA, WIDTH, HEIGHT, SETBACKS

Section 3.5 outlines the dimensional requirements for the GC, General Commercial District.

	Required	<u>Provided</u>	<u>Compliance</u>
Lot Area	2 acres	5.23 acres	Compliant
Lot Width	150 feet	796.21	Compliant
<u>Setbacks</u>			
Front	35 feet	105 feet	Compliant
Side	30 feet	160 feet (west) 120 feet (east)	Compliant
Rear	30 feet	203 feet	Compliant

Lot Coverage	30%	22%	Compliant
Building Height	35 feet/2 stories	18.5 feet / 1 story	Compliant

The proposed plan has been modified to demonstrate the Willis Road future right-of-way line as required. All dimensional requirements of the GC, General Commercial zoning district have been met.

Items to be Addressed: None.

NATURAL RESOURCES

Topography: Existing topography is relatively level and is devoid of any

significant natural features.

Woodlands: No woodlands exist on the site.

Wetlands: A wetland area is delineated along the western property line. No

construction is proposed within this portion of the site.

Soils: According to the USDA Web Soil Survey, the soils on the site are

composed of Wasepi sandy loam (WaA), and Gilford Sandy Loam. The Wasepi soils present a "somewhat limited" construction rating. "Somewhat Limited" indicates the soils are moderately favorable and limitations can be overcome or minimized by special planning design or installation. Whereas the Gilford soils have greater limitations to development. These soils are found in the southwest corner of the site where no building construction is proposed.

Items to be Addressed: None.

BUILDING LOCATION AND SITE ARRANGEMENT

The building and proposed improvements are located on the southern portion of the site. The arrangement appears logical.

Items to be Addressed: None.

ESSENTIONAL FACILITIES

A stormwater detention area is shown north and west of the proposed structure. The applicant has received approval from the Washtenaw County Water Resources Commission as required.

Water and sewer connections are also proposed. Previously, sewer connections played a major role in the review of the previous development. As shown on the final site plan provided, sanitary sewer is proposed to be connected across Willis Road from Potterville Drive. Extension of sanitary sewer and water services are proposed along the remaining Willis Road frontage as well.

Items to be Addressed: None.

PARKING, LOADING

Section 7.2 requires retail stores to provide 1 parking space for each 200 feet of gross floor area. Based on this requirement, 46 parking spaces are required.

	Requirement	No. of Spaces Required	No. Spaces Provided
Off-Street	1 space per 200sq.ft. gross floor area (9,1000 / 200 = 46 spaces)	46 spaces	46 spaces
Barrier Free	26-50 spaces	2 spaces	2 spaces
Loading	2,000 – 20,000 square feet area	1 space	1 space

Parking spaces in a 90-degree parking pattern are required to be 9.5 feet in width and 18 feet in length and are provided at 9.5-foot widths and 20-foot depths. The maneuvering lane width exceeds the minimum 24-foot for a two-way lane width requirement (shown at 36 feet).

Loading / Unloading

A 10-foot by 50-foot concrete receiving area is provided at the northwest corner of the proposed building as required.

Items to be Addressed: None.

SITE ACCESS AND CIRCULATION

The site will be accessed via a new two-way drive from Willis Road. The proposed drive will align with the existing private drive (Potterville Drive) across Willis Road. As noted previous, the proposed Willis Road ROW has been demonstrated. We defer further comment to the Township Engineer and the WCRC with regard to site access and circulation. The last communication received by the WCRC regarding this project was September 16, 2021. WCRC approval has been provided to the Township.

A public sidewalk is proposed from the railroad tracks (western property extent) to the proposed screening fence east of the proposed structure. The Planning Commission had discussed the extension of the sidewalk during the previous preliminary site plan review for this project and found the termination at the west side of the proposed site improvements is appropriate. An

Dollar General Final Site Plan Review December 8, 2021

internal sidewalk connection to the main entrance is also provided from the proposed public sidewalk along Willis Road as well.

Items to be Addressed: None.

LANDSCAPING

A landscape plan is required to be provided as part of final site plan review. Section 5.7.H requires all development proposals for which landscape is required to submit a landscape plan demonstrating compliance with Section 5.7.

The following landscaping requirements apply:

<u>Landscaping Adjacent to Roads:</u> One (1) deciduous tree is required for every 30 lineal feet of road frontage; plus, one (1) ornamental tree per 100 linear feet of road frontage; plus, five (5) shrubs per 30 lineal feet of road frontage (minus drives and sidewalks). The applicant provides 23 trees and 115 shrubs adjacent to Willis Road as required.

<u>Greenbelts:</u> Twenty (20)-foot greenbelts are required along the side and rear property lines of all non-residential developments. Twenty (20)-foot greenbelts are proposed along the east and south sides of the development.

Screening Between Land Uses: Section 5.7.B.1.d. requires the following:

Screening in the form of a landscaped berm, dense landscape screen, or wall shall be required wherever a non-residential use in a commercial district abuts directly upon land zoned or used for residential purposes, and where loading areas would be visible from residential districts. Landscaped screening shall comply with the requirements in Section 5.7.C.5. if a wall is used instead of landscaping, the requirements in Section 5.8 shall be complied with, but a landscaped greenbelt conforming to Section 5.7.C.4. shall be required on the side of the wall facing the residential district.

Evergreen plantings and a wooden privacy fence are provided along the entire east property line. We note a detail of the proposed 6-foot-tall privacy fencing is provided on Sheet C4.

<u>Parking Lot Landscaping:</u> Off-street parking areas containing more than 20 spaces shall comply with the requirements for parking lot landscaping. Based on requirements of Section 5.7.C.6. Additionally, parking areas shall be screened from view from the road through the use of a masonry screen wall at least 42-inches in height, or a continuous evergreen landscape screen of at least six (6) feet in height (Section 3.7.D.2.b.). The applicant is proposing seven (7) interior parking lot trees in addition to the required 42-inch masonry screen wall along the south parking lot periphery screening it from Willis Road as required. Detail of the wall is provided on Sheet C5.1.

Dollar General Final Site Plan Review December 8, 2021

<u>General Site Landscaping:</u> All undeveloped portions of the site not already containing specific landscape requirements shall contain one (1) deciduous or evergreen tree per every 3,000 square feet of undeveloped area. The applicant provides on Sheet C1 that the site will maintain 3.29 acres (143,312.4 SF) of open space (143,312.4 / 3,000 = 47.7 trees). The applicant has provided 47 general site landscaping trees as required.

<u>Dumpster Enclosure:</u> A two-bay dumpster enclosure is proposed northwest of the proposed structure. Detail of the dumpster enclosure is provided on Sheet C4. Section 5.8.H. requires dumpster areas be screened on at least three (3) sides with a masonry wall of common brick, face brick, or decorative block, of the same material as the principal building.

Items to be Addressed: None.

LIGHTING

A lighting plan is provided on Sheet E5. We note the location of all proposed wall-mounted and pole-mounted fixtures and illumination levels are noted on the plan. Additionally, mounting heights of wall-mounted fixtures are called out. Detail of proposed fixtures has been provided in the second revised submittal demonstrating they are fully shielded and downward directed. Further, the height and detail of pole-mounted fixtures has been provided depicting a 20-foot pole-mounted fixture as allowed..

Illumination levels provided meet the standards outlined in Section 9.13.E.1.

Items to be Addressed: None.

SIGNS

A freestanding sign shown on the east side of the entry drive. Section 8.7 outlines sign requirements for non-residential signs. The sign is located just outside of the Michigan Bell easement which runs parallel to Willis Road. The applicant has noted the setback dimensions related to the location of the proposed sign and the future Willis Road right-of-way to ensure the required 15-foot setback has been met.

Sign details are provided on Sheet A7.1 noting the size of both freestanding and wall signage areas. Freestanding signs are limited to one-half (0.5) of a square footage per linear foot of lot frontage, but in no case shall exceed 32 square feet in area. Based on the frontage of the lot the maximum 32 square feet of freestanding signage is allowed. The applicant is proposing a 32 square foot freestanding sign. Further, freestanding signs are limited to 6 feet in height, and dimensions on Sheet A7.1 verify height of the sign will not exceed 6 feet in height.

A wall sign is also proposed, and detail is provided on Sheet A7.1. Wall signs shall be based on one (1) square foot of area per one (1) foot of linear building frontage with no wall signs to exceed

60 square feet in area. The proposed building has 130 feet of linear building frontage allowing the maximum wall sign area of 60 square feet. The applicant is proposing a 50 SF wall sign.

A temporary construction sign is also proposed on Sheet A7.1. The location of this sign is not provided nor is the overall sign height. Temporary signs that advertise the construction of new non-residential development shall not exceed 32 square feet in area or 6 feet in height. These temporary signs shall be removed immediately after construction is complete.

Items to be Addressed: Sign permits must be submitted for review and approval by the Township Zoning Administrator.

FLOOR PLAN AND ELEVATIONS

Building floor plans and elevations have been provided. The proposed structure must meet the building design standards outlined in Section 3.7.D.3. Specifically, the following shall apply:

- The maximum linear length of an uninterrupted building façade facing public streets shall be thirty (30) feet. The building has a front elevation length of 130 feet requiring some façade articulation or architectural design variation every 30 feet. As proposed, the front elevation design has been modified to include brick, block and niche board panels along the front and side elevations to provide the required architectural variation.
- 2. Ground floor facades that face public streets shall have arcades, display windows, entry areas, awnings, or other such features along no less than 50% of their horizontal length. The front elevation has been modified to provide what appears to be windows to meet this 50% requirement.
- 3. Flat roofs must have parapets concealing HVAC units from public view. The elevations demonstrate parapet screening along all sides of the structure.
- 4. The predominant building materials are noted as split-face masonry units and prefinished metal wall panels. Façade colors and systems shall be reviewed and approved by the Planning Commission as part of final site plan review.
- 5. The building is required to have one (1) entrance facing the road upon which said building fronts which is connected by a concrete sidewalk of at least four (4) feet in width. This item has been addressed.

Items to be Addressed: Planning Commission to review/approve façade colors and systems during final site plan.

RECOMMENDATIONS

The following items will need to be addressed to the satisfaction of the Planning Commission prior to final site plan approval:

- 1. Sign permits must be submitted for review and approval by the Township Zoning Administrator.
- 2. Verify material proposed as "21" window/glazing and level of transparency.
- 3. Planning Commission to review/approve façade colors and systems during final site plan.

CARLISLE/WORTMAN ASSOC., INC.

Laura K. Kreps, AICP Senior Associate

#144-2100

cc: Rodney Parrott via <u>rodney@overlandeng.com</u>

FINDINGS OF REQUIRED STANDARDS AND RESOLUTION OF APPROVAL RAILSPLITTER #2 – LARGE-SCALE SOLAR ENERGY SYSTEM SLU 21-01 December 15, 2020

WHEREAS an application for a Special Land Use Permit for a commercial large scale solar energy system as provided for and identified as a large solar energy system (LSES) under Section 6.25 of the Township Zoning Ordinance on land located north of Arkona Road, east of Sanford Road, south of Talladay Road and west of Hitchingham Road encompassing approximately 493 acres on the following 13 parcels in Sections 19 and 20, Augusta Charter Township, Washtenaw County, Michigan (LSES Property): (T-20-19-400-001; T-20-19-400-002; 5655 Willow Road (T-20-30-100-002); 5760 Willow Road (T-20-30-100-003); T-20-30-100-004; 12439 McCrone Road (T-20-30-100-005); T-20-30-200-004; T-20-30-200-008; T-20-30-200-012; T-20-30-400-006; T-20-19-300-003; T-20-30-200-009; 12182 McCrone Road (T-20-30-200-010)); and

WHEREAS in accordance with Article 14.12 of the Township Zoning Ordinance, the Augusta Township Planning Commission held a public hearing on this matter on September 15, 2021, and public comments were received and considered; and

WHEREAS the applicant submitted a revised special land use application and supplemental materials for Planning Commission review dated August 23, 2021; and

WHEREAS the Augusta Charter Township Planning Commission reviewed the Special Land Use Permit application for this use and per the requirements of Article 4.4 of the Township Zoning Ordinance finds the following:

A. Will be harmonious and in accordance with the general objectives or any specific objectives of the Augusta Charter Township Master Plan.

The Master Plan sets forth the primary goal for rural areas in the Township as the preservation of "...the rural character of Augusta Township through the management of growth and preservation of natural resources and active farming." And one of the primary objectives is to "Protect and encourage active farming in Augusta Township." Several of the members have serious concerns that this primary objective is not satisfied by the introduction of a LSES on 355 acres of prime agricultural land. However, the zoning ordinance was amended in February of 2020 to allow a LSES on land zoned agriculture residential in the Township even though the use may not be consistent with goals and objectives set forth in the master plan. Since this Commission is bound by terms in the zoning ordinance for review of the solar use, it is attempting to reconcile the proposed solar use with the objectives of the master plan as required.

Accordingly, the Commission observes that the Properties along the north, east, and west of the site are primarily agricultural / environmentally sensitive properties with some single-family residential neighbors. In general a solar use is of extremely low intensity in relation to other uses. By comparison, a residential development in this area would increase traffic, require additional Township services, and could remove portions of this area from farming production. The proposed LSES will not generate traffic after the construction period, nor will it require any additional Township services. The use can also be removed, and farming operations restored after the life of the LSES has ended.

Further, the applicant has provided for 500-foot setbacks from the project to adjacent, non-participating residences as requested by the Planning Commission, and noted areas where additional landscape screening will be installed. These landscape areas are primarily along both sides of Willow Road; behind the two (2) non-participating parties along Willow Road; across from the non-participating residence across Gooding Road, and at the Arkona and McCrone Roads intersection screening non-participating residences at this location.

The Planning Commission determines that the proposed LSES can be approved and developed in a manner that is generally harmonious with the Master Plan if certain conditions listed below are fully satisfied.

B. Will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area.

Members of this Commission have observed that the intended character of the general vicinity as provided for in the Master Plan and Zoning Ordinance is rural farming in nature with scattered low density rural residential uses. To the extent that a commercial solar use is visible, this Commission believes that the use will likely change the essential character of the area.

The applicant has provided a preliminary site plan demonstrating locations of where proposed solar arrays will be erected as well as areas to remain in a natural state, and buffer/screening areas where the solar arrays will be located adjacent to neighboring single-family residences. The applicant has provided for 500-foot setbacks from the project to adjacent, non-participating residences as requested by the Planning Commission. There are proposals for screening the use from adjacent residences and other uses. The applicant notes in their application the solar farm use will be a low intensity use once constructed and will be operated, maintained, and managed without interference to other uses.

The Planning Commission determines that it is possible for the LSES to be designed, constructed, operated, and maintained to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area if the conditions listed below are met.

C. Will not be hazardous or disturbing to existing or future nearby uses.

The Planning Commission determines the LSES will not be hazardous or disturbing to existing or future nearby uses if the conditions listed below are met.

D. Will be an improvement in relation to property in the immediate vicinity and to the Township as a whole.

The Planning Commission determines the LSES can be an improvement in relation to the property in the immediate vicinity and to the Township as a whole if the conditions listed below are met.

E. Will be served adequately by essential public services and facilities or that the persons responsible for the establishment of the proposed use will provide adequately for any such service or facility.

No water or sewer facilities are required due to the nature of the project. The Developer will work with the local emergency service providers for any additional training necessary to serve the LSES at the Developer's cost. The Developer will also construct the necessary infrastructure to connect the proposed LSES to the power grid as shown in the final site plan.

The Planning Commission determines the LSES will be served adequately by essential public services and facilities or that the persons responsible for the establishment of the proposed use will provide adequately for any such service or facility if the conditions listed below are met.

F. Will not create excessive additional public costs and will not be detrimental to the economic welfare of the Township.

The Planning Commission determines the LSES will not create excessive additional public costs and will not be detrimental to the economic welfare of the Township if the conditions below are met.

G. Will be consistent with the intent, purposes, and specifications of this Ordinance.

As part of this special land use review, and future corresponding site plan review submittals, Carlisle Wortman Associates will ensure compliance with the large solar energy system standards as outlined in Section 6.25 and the conditions for approval listed below.

NOW THEREFORE BE IT RESOLVED, that the Augusta Charter Township Planning Commission hereby approves SLU 21-01 Railsplitter #2 with the following conditions:

- 1. Five hundred (500)-foot setbacks and landscape screening are provided from solar panels to all non-participating residential structures.
- 2. One hundred fifty (150)-foot setbacks are provided from solar panels, equipment or deer fencing from all participating residential structures.
- 3. One hundred (100)-foot setback shall be provided from all road rights-of-ways (which roads are these).
- 4. No landscaping shall be placed within 50 feet of any right-of-way.
- 5. Landscape screening shall be installed to reasonably obscure the LSES from adjacent uses and from passersby along Willow, McCrone, and Gooding Roads as provided and consistent with the attached color rendering which was also provided to the Planning Commission at the October 20, 2021 meeting. The objective of all screening along roads and adjacent uses shall be to, as much as is reasonably possible, make the solar use not visible to residents and others who may be traveling through the Township. The details of screening must be included and approved as part of the final site plan.
- 6. Landscape screening shall consist of one (1) row of evergreen trees spaced at a distance of eight (8) feet apart on center and two (2) rows of shrubs spaced at distance of six (6) feet on center. The evergreen trees shall be planted at a height of between four (4) and six (6) feet and the shrubs shall be planted at a height at least two (2) feet. As required by Section 6.25.J of the Augusta Township Zoning Ordinance, the vegetative buffer shall be continuously maintained and the applicant shall replace all unhealthy (sixty (60) percent dead or greater) and dead material within one (1) year or the next appropriate planting period, whichever occurs first. The applicant will replace dead material with trees between four (4) and six (6)

- feet in height and shrubs at least two (2) feet in height, but may plant a different species than that originally planted if the originally planted species does not thrive in this location.
- 7. Maintenance of existing trees around the periphery of the development
- 8. No chemicals shall be used for weed or mosquito control that might have a detrimental impact on groundwater.
- 9. A weed and mosquito control plan as approved by the PC shall be provided as part of final site plan approval.
- 10. The applicant will adhere to the Township's Property Maintenance Code (Section 302.4) with regard to weed/grass control.
- 11. No additional wetlands are allowed to be created or developed by the project.
- 12. An inspection and survey of existing drain tiles on the LSES Property shall be provided prior to any construction and a plan as approved by the PC for maintenance and preservation of the drain tiles shall be submitted with final site plan. Existing drain tiles as surveyed must be functionally maintained at all times during construction and use of the property.
- 13. Drain tiles on the LSES Property rendered nonfunctioning directly as a result of construction or operation of the LSES will be replaced or repaired so as not to create any drainage issues on the LSES Property or on adjacent and surrounding properties.
- 14. The Township shall be indemnified from all third-party claims for personal or property damage arising from the Developer's negligent and/or intentional acts and/or omissions during construction, maintenance and decommissioning of the LSES, and shall be listed as an additional insured on applicable insurance policies during the life of the LSES.
- 15. Any LSES debris originating from damaged solar panels shall be removed from the LSES Property within thirty (30) days of damage occurring or as soon as practicable after thirty (30) days.
- 16. The operator of the project or its assigns shall initially respond within ten (10) business days to complaints from residential property owners arising from and related to the operation of the LSES (Residential Claim). Any resolution shall include lawful and reasonable solutions consistent with the Zoning Ordinance, which shall also be provided to the Township Zoning Administrator. The operator of the LSES or its assigns reserve the right to adjudicate any claims, including Residential Claims, in a court of proper jurisdiction.
- 17. The decommissioning plan shall be rewritten to provide security to the Township for 100% of the cost to remove and dispose of all panels, wiring, and restoration of the land to its original condition. The value of decommissioning shall be determined by a 3rd party financial consultant or engineer selected by the Township and paid for by Developer. Once value of decommissioning is determined, it shall be updated on a periodic basis of not less than every 3 years.
- 18. The Applicant shall abide by all County requirements regarding the use, maintenance and/or repair of County roads, and shall enter into an agreement with the Washtenaw County Road Commission (WCRC) as approved by the Township providing for repair of damage to Township roads in the event LSES activities cause damage to any roads.
- 19. Developer shall enter into a development/SUP agreement with the Township prior to any work on the project which provides for enforcement of all applicable requirements in the Township Zoning Ordinance, other ordinances of the Township, this approval, the approved final site plan and other relevant regulations and law.

FINDINGS OF REQUIRED STANDARDS AND RESOLUTION OF DENIAL RAILSPLITTER #2 – LARGE-SCALE SOLAR ENERGY SYSTEM SLU 21-01 December 15, 2021

WHEREAS an application for a Special Land Use Permit for large scale solar facility on the premises located north of Arkona Road, east of Sanford Road, south of Talladay Road and west of Hitchingham Road encompassing approximately 493 acres or 13 properties (T-20-19-400-001; T-20-19-400-002; 5655 Willow Road (T-20-30-100-002); 5760 Willow Road (T-20-30-100-003); T-20-30-100-004; 12439 McCrone Road (T-20-30-100-005); T-20-30-200-004; T-20-30-200-008; T-20-30-200-012; T-20-30-400-006; T-20-19-300-003; T-20-30-200-009; 12182 McCrone Road (T-20-30-200-010)). in Sections 19 and 20, Augusta Charter Township, Washtenaw County, Michigan; and

WHEREAS in accordance with Article 14.12 of the Township Zoning Ordinance, the Augusta Township Planning Commission held a public hearing on this matter on September 15, 2021, and public comments were received and considered; and

WHEREAS the applicant submitted a revised special land use application and supplemental materials for Planning Commission review dated August 23, 2021; and

WHEREAS PC members have carefully considered the presentations of Ranger Power and the comments and concerns from members of the public and have generally struggled with the proposed project since it was first presented at a different location in the Township and then moved to its current location because of opposition by the many more residents who would be affected by the project; and

WHEREAS the current proposed project is in a better location, and a consensus of current members of this PC have worked with Ranger Power in an attempt to fit the proposed project into the area consistent with the stated purposes of an Agricultural Residential district in the Zoning Ordinance and the stated goals and objectives in the current Master Plan; and

WHEREAS in February 2020, an amendment to the Zoning Ordinance was adopted by the Township Board that allowed for large scale solar projects to be considered and potentially approved as a special use in zoned Agricultural Residential districts when such uses were only permitted in zoned industrial districts prior to the 2020 zoning amendment; and

WHEREAS upon reviewing the Township Master Plan and Zoning Ordinance for uses permitted in a zoned Agricultural Residential district in the context of the proposed project, this PC considers that the 2020 amendment that permits large scale solar projects to be considered as a special use in zoning Agricultural Residential districts was not based upon the goals and objectives stated in the Township Master Plan as required by law; and

WHEREAS this PC reviewed the Special Land Use Permit application for and the proposed large scale solar project as it is required to do in accordance with the requirements of Article 4.4 of the Township Zoning Ordinance, and now finds the following:

A. Will be harmonious and in accordance with the general objectives or any specific objectives of the Augusta Charter Township Master Plan.

The Master Plan sets forth the primary goal for rural areas in the Township as the preservation of "...the rural character of Augusta Township through the management of growth and

preservation of natural resources and active farming." And one of the primary objectives is to "Protect and encourage active farming in Augusta Township." Several of the members have serious concerns that this primary objective is not satisfied by the introduction of a large scale commercial solar project on 355 acres of prime agricultural land. However, the zoning ordinance, as amended in February of 2020, allows a large scale commercial solar use on land zoned Agriculture Residential in the Township and this Commission is bound by terms in the zoning ordinance for review of the solar use. This PC has been unable to reconcile the goals and objectives outlined in the Master Plan with the proposed large scale solar energy project. Specifically, the following goals and objectives:

- Preserve the rural character of Augusta Charter Township through management of
 growth and preservation of natural resources and active farming. To the extent that the
 project can be seen by passersby on the roads and by residents on the perimeter of the
 project, the rural character of the area is not preserved. Nor does the use preserve and
 promote active farming or preserve natural resources.
- Protect the integrity of the existing and future residential areas. To the extent that the
 project can be seen by passersby on the roads and by the existing and future potential
 residents in the area, the integrity of existing and future residential uses will likely be
 compromised.
- Protect and encourage active farming in Augusta Charter Township. The proposed use does not protect or encourage active farming. It diminishes active farming in the Township.
- Promote limited development of commercial / industrial uses in appropriate locations of the Township. Utilization of 493 acres of farmland for a commercial/industrial solar use does not limit such uses to an appropriate location in the Township.

The Planning Commission determines that the proposed large scale solar facility cannot be approved and developed in a manner that is generally harmonious with the Master Plan.

B. Will be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will not change the essential character of the area.

Members of this Commission have observed that the intended character of the general vicinity as provided for in the Master Plan and Zoning Ordinance is rural farming in nature with scattered low density rural residential uses. To the extent that a commercial solar use is visible, this Commission believes that the use will likely change the essential character of the area and will not be harmonious and appropriate in appearance with the general vicinity.

The Planning Commission determines that the proposed large scale solar facility as proposed in the preliminary site plan would not be designed, constructed, operated and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and will change the essential character of the area.

C. Will not be hazardous or disturbing to existing or future nearby uses.

Railsplitter #2 SLU 21-01 December 15, 2021 Page 3 of 4

The Planning Commission determines the large solar facility will be hazardous or disturbing to existing or future nearby uses based on the scale and visibility of the project to immediate and nearby residents and uses.

D. Will be an improvement in relation to property in the immediate vicinity and to the Township as a whole.

The Planning Commission determines the large solar facility is not an improvement in relation to the property in the immediate vicinity and to the Township as a whole based on inconsistencies noted in the goals and objectives outlined in the Master Plan.

E. Will be served adequately by essential public services and facilities or that the persons responsible for the establishment of the proposed use will provide adequately for any such service or facility.

No water or sewer facilities are required or proposed due to the nature of the project. If permitted, the developer has agreed in the proposal to work with the local emergency service providers for any additional training necessary to serve the proposed facility at the developer's cost.

The Planning Commission determines the large solar facility if permitted would be served adequately by essential public services.

F. Will not create excessive additional public costs and will not be detrimental to the economic welfare of the Township.

The Planning Commission determines the large solar facility if approved would not create excessive additional public costs. However, the full effect of economic impacts and welfare of the Township is unclear to this PC and without such clarity it is difficult for this PC to determine whether the project might create any additional public cost due to loss of tax revenues or for other reasons because of any other cost to the Township caused by the project development and maintenance over a 20 year period.

G. Will be consistent with the intent, purposes, and specifications of this Ordinance.

Ranger Power and the project as proposed generally meets the specifications for a large-scale solar project as outlined in the Ordinance. However, this PC believes that the proposed use is generally not consistent with the intent, purpose and objectives of other uses allowed in a zoned Agricultural Residential zoning district. To the extent that the Ordinance was amended in 2020 to list large scale solar projects as a special use in zoning Agricultural Residential districts, this PC believes that the amendment was not well thought out because it was not made or guided by the Master Plan policies and goals.

NOW THEREFORE BE IT RESOLVED, that the Augusta Charter Township Planning Commission hereby DENIES SLU 21-01 Railsplitter #2 based on the findings stated above. This PC also considers that the proposed use might be approved if it was proposed, constructed and

Railsplitter #2 SLU 21-01 December 15, 2021 Page 4 of 4

maintained in a manner which removes it from sight from passersby on perimeter roads and adjacent properties with existing and potential future residential uses.

ROLL CALL VOTE:	
AYES: NAYES: ABSENT: ABSTAIN:	
RESOLUTION DECLARED ADOPTED	
	Dated:
Robert Yurk, Chairperson Augusta Charter Township Planning Commiss	sion
CE	RTIFICATE
Commission of Augusta Charter Township, meeting held on the day of notice of said meeting was given pursuant to a	d complete copy of a resolution adopted by the Planning County of Washtenaw, State of Michigan at a regular, 2021, and that said meeting was conducted and public and in full compliance with the open meetings act, being that the minutes of said meeting were kept and will be id Act.
Dated:	Secretary Planning Commission Augusta Charter Township