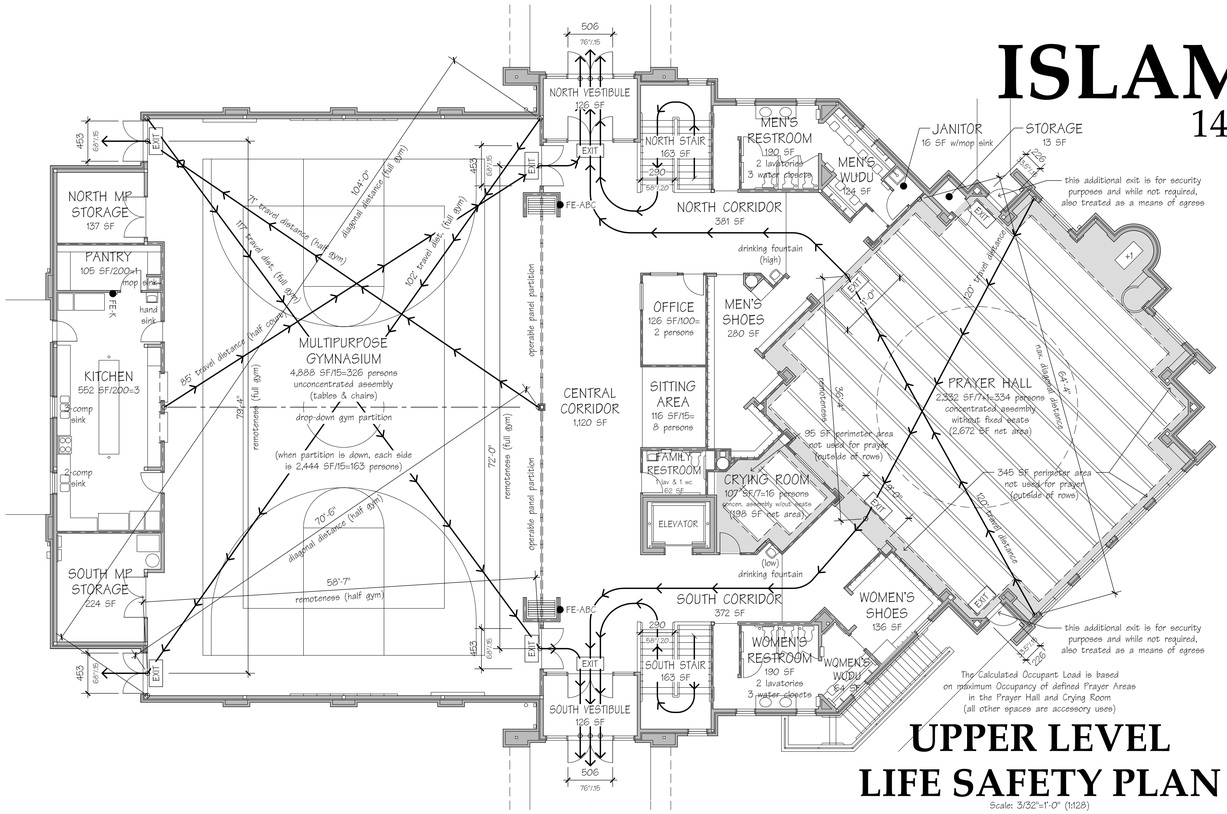
Al Salam Foundation

ISLAMIC LIFE CENTER

14120 Shelborne Road, Carmel IN 46074



UPPER LEVEL LIFE SAFETY PLAN

Scale: 3/32"=1'-0" (1:128)

REVISIONS

9/21/2021 BID SET: Construction Drawings which include the original set from 3/17/2021 & revisions on 4/20/2021, 6/9/2021, & 7/26/2021. This includes multiple revisions (1.0 thru 6.0) requested of Carmel's Technical Advisory Committee. The Existing topography was also consolidated into one sheet C2 (thus sheets C2 & C3 are not used).

ADD ALTERNATES

ONE - North & South Entry Canopies: Work includes the barrel vaulted roof, brick end wall with arches, and associated work. If not executed, base bid shall include awnings over North & South Entry Doors.

TWO - Minaret w/lightning protection: Work includes the top, alum. portion of minaret & assoc. work. If not executed, base bid shall include metal coping cap over brick pier termination above dome roof.

THREE - Finishing of Lower Level: Work includes all fitup & finishing of the Lower Level. If not executed, base bid to leave plumbing rough-ins & lower level unfinished.

FOUR - Bullet Resistant Glazing: Replace portions of glazing in Prayer Hall to be Bullet Resistant.

FIVE - Kitchen & Multipurpose Room Finishes: Work includes all Kitchen & Pantry cabinets and equipment. Rough-ins to be included in base bid. All sports equipment and finishing in the Multipurpose Room to also be included. Base bid to include all doors, electrical & HVAC.

GENERAL NOTES

This project has been designed exclusively for the Al Salam Foundation and is to be built at the listed address. Any reproduction of any part of this design for another project is prohibited.

The Contractor shall be responsible for obtaining clarification from the Consultant(s) before continuing construction if there are any discrepancies within the drawings.

Do not scale drawings. Written dimensions take precedence over scaled dimensions. The Contractor(s) must verify all dimensions in the field. Notify the architect of any discrepancies. "FV" means "field verify". Plus or minus (+/-) indicates dimensions to be adjusted in the field according to the conditions. Verify with the Consultant. Dimensions are to face of masonry, face of stud, centerline of structure, face of concrete, or centerline of opening (or door/window unit).

All drawings, specifications, computer files, reports, field data, notes, and other documents and instruments prepared by the Consultant(s) as instruments of service shall remain the property of the Consultant(s). The Consultant(s) shall retain all common law, statutory and other reserved rights, including the copyright thereto.

PERSPECTIVE VIEWS

Not to Scale & for reference only (may not be accurate)

PROJECT DESCRIPTION

This project includes the construction of a new religious assembly building for the Al Salam Foundation in Carmel Indiana. The major spaces include a Prayer Hall, Multipurpose Gymnasium, and Classrooms. Occupancy is less than 350 persons based on the Prayer Hall and Crying Room. The Multipurpose Gymnasium, Restrooms, Coat/Shoe Rooms, Office, Sitting Area, and Classrooms are all accessory to the religious assembly use. Site development includes drives to both adjacent streets, parking lot, dumpster enclosure, and paved multiuse paths along each street.

DRAWING SCHEDULE

Cover Sheet, General Notes, and Life Safety Plans

C1 Civil Title Sheet & General Site Information
C2 Existing Topography
C3 NOT USED
C4 NOT USED
C5 Demolition Plan South
C6 Demolition Plan Center
C7 Demolition Plan North
C8 Site Plan South
C9 Site Plan Center
C10 Site Plan North
C11 Site Details
C11.1 Site Details
C12 Grading Plan South
C13 Grading Plan Center
C14 Grading Plan North
C15 Utility Plan South
C16 Utility Plan Center
C17 Utility Profiles
C18 Utility Profiles
C19 Utility Profiles
C20 Utility Profiles
C21 Utility Profiles
C22 Emergency Flood Routing South
C23 Emergency Flood Routing Center
C24 Utility Details
C25 Utility Details
C26 Utility Details
C27 Erosion Control South
C28 Erosion Control Center
C29 Erosion Control North
C30 Erosion Control Details
C31 Storm Water Pollution Protection Plan
C32 City of Carmel Concrete Policy
C33 City of Carmel Paving Policy
C34 Sanitary Specificiations

L1 South Parcel Landscape Plan
L2 North Parcel Landscape Plan & Planting Notes
L3 Planting Schedule & Details
L4 Concept Irrigation Plan
L5 Concept Irrigation Details

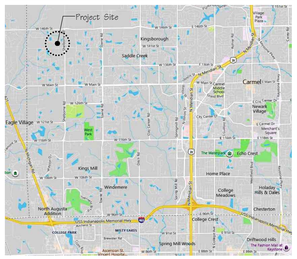
S1 Structural General Notes
S2 Exterior Isometric Views
S3 Framing Isometric Views
S4 Structural Grid Plan
S5 Foundation Plan
S6 Foundation Details
S7 Foundation Details
S8 Floor Framing Plan
S9 Floor Framing Details
S10 Low Roof Framing Plan
S11 Roof Framing Details
S12 Gym Roof & Wall Framing
S13 Prayer Hall Roof
S14 Canopy

A1 Upper Level Floor Plan
A2 Clerestory & Lower Level Floor Plan
A3 Upper Level Reflected Ceiling Plan
A4 Lower Level Reflected Ceiling & Canopy Plans
A5 Roof Plan
A6 Exterior Building Elevations
A7 Enlarged Exterior Elevations & Details
A8 Building Sections & Details
A9 Building Sections & Details
A10 Stair & Elevator Section
A11 Prayer Hall Wall Sections
A12 Multipurpose Gym Wall Sections
A13 Room Finish, Door, & Window Schedules
A14 Kitchen & Cabinetry Interior Elevations
A15 Restroom & Wudu Interior Elevations
A16 Prayer Hall Interior Elevations
A17 Multipurpose Gym Interior Elevations

SU1 Site Utilities Plan
ME1 Mechanical & Electrical Legends
ME2 Mechanical & Electrical Legends
M1 Upper Level Mechanical Plan
M2 Lower Level Mechanical Plan
M3 Roof Mechanical Plan
M4 Mechanical Schedules
M5 Mechanical Details
F1 Upper Level Fire Protection Plan
F2 Lower Level Fire Protection Plan
F3 Fire Protection Schedules & Details
P1 Upper Level Plumbing Waste Plan
P2 Lower Level Plumbing Waste Plan
P3 Roof Plumbing Plan
P4 Upper Level Plumbing Water Plan
P5 Lower Level Plumbing Water Plan
P6 Plumbing Schedules & Details
P7 Plumbing Riser Diagrams
E1 Upper Level Lighting Plan
E2 Lower Level & Canopies Lighting Plans
E3 Roof Lighting Plan
E4 Upper Level Power & Communications Plan
E5 Lower Level Power & Communications Plan
E6 Roof Power & Communications Plan
E7 Electrical Schedules & Details
E8 Electrical Details & Conduit Notes
E9 Electrical Schedules & Details
E10 Electrical Panelboard Schedules

VICINITY MAP

Carmel (Northwest Indianapolis), Indiana



LIFE SAFETY LEGEND

- Line & direction of travel distance
- EXIT — Exit sign location (coord. w/reflected ceiling & electrical/light fixture plans)
- 223 (33.5/1.15) — Egress Capacity (over width divided by factor)

LIFE SAFETY NOTES

All means of egress shall be Accessible.

All exits shall have paved paths to the public right-of-way.

Maximum allowable exit access travel distance is 250 feet for a fully sprinklered building per 2015 IBC, Table 1017.2.

Fire alarm detection and notification system will be provided in accordance with International Building Code, Indiana Building Code and NFPA-72 requirements.

Smoke detection with shut down of mechanical systems will be provided.

Audio/visual notification devices will be provided throughout the facility.

PROJECT & CODE INFORMATION

Contractors shall construct this project in compliance with all applicable codes adopted & amended by the State of Indiana based on the International Building Code (IBC) & the City of Carmel including:

2014 Indiana Building Code (2012 IBC with Indiana amendments)
Accessibile & Usable Buildings & Facilities ANSI ICC 117.1-2009
2012 Indiana Plumbing Code (2006 IPC with Indiana amendments)
2009 Indiana Electrical Code (2008 NEC with Indiana amendments)
2014 Indiana Mechanical Code (2012 IMC with Indiana amendments)
2010 Indiana Energy Conservation Code (ASHRAE 90.1, 2007 ammend.)
Automated People Mover, Parts 1-3 ANSI/ASCE/IT & DI 21-08 ammend.
2014 Indiana Fire Code (2012 International Fire Code)

Use Group:	A-3 Religious Assembly
Type of Construction:	2B Unprotected
Structural Risk (IBC Table 1604.5):	Category III (3)
Sprinkler System:	Fully Sprinkled

GROSS BUILDING AREAS	
Upper Level	13,640 SF
Lower Level	5,925 SF
Total Gross Finished Area	19,565 SF
Net Prayer Areas (Prayer Hall & Crying Room):	2,439 SF
Calculated Occupant Load:	2,439/7+1=350 persons

PLUMBING FIXTURE CALCULATIONS

Due to religious & cultural reasons, Muslim men do not use urinals. No water closet substitutions have been considered (2006 IPC 419.2).

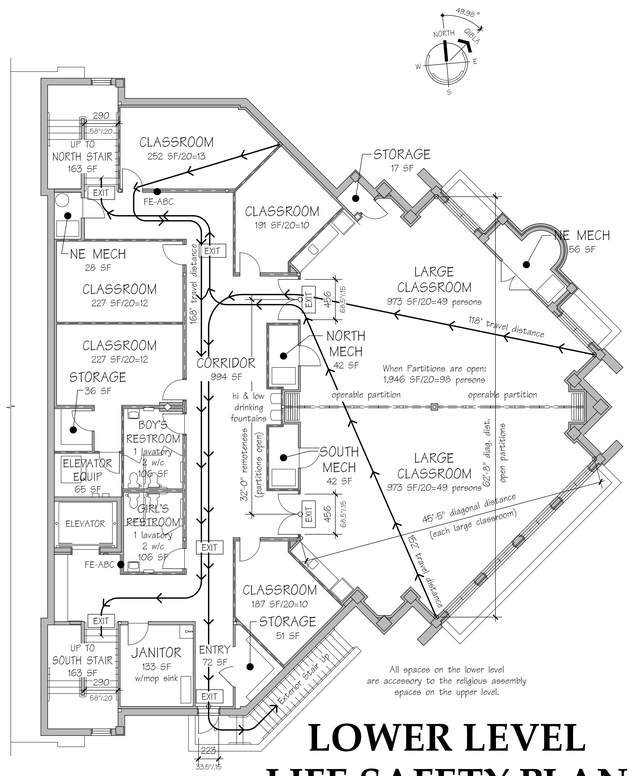
Calculations per IBC Table 2902.1 (A-3 Religious Place of Worship)

& Calc. Occupant Load of 350 persons	Required	Provided
Male Water Closets	175/150 = 2	5
Female Water Closets	175/75 = 3	5
Family Restroom Water Closets	0	1
Total Water Closets	5	11
Male Lavatories	175/200 = 1	3
Female Lavatories	175/200 = 1	3
Family Restroom Lavatories	0	1
Total Lavatories	2	7
Drinking Fountains (Water Coolers)	350/1000 = 1	4
Service (Mop) Sinks	1	3

FIRE EXTINGUISHER TYPES

- FE-ABC - Standard ABC (Throughout Building)
  Multipurpose Dry-Chemical Type: UL-Rated 2.5 Gal. (9.5 L) nominal capacity, with monoammonium phosphate-based dry chemical in manufacturer's standard enameled container. (In accordance with NFPA 10, Standard for Portable Fire Extinguishers)

- FE-K - Type K (Kitchen)
  Wet-Chemical Type: UL-Rated 2-A:1-B:C:K, 2.5 Gal. (9.5 L) nominal capacity, with potassium acetate based chemical in stainless-steel container, with pressure-indicating gauge. (In accordance with NFPA 10, Standard for Portable Fire Extinguishers)



LOWER LEVEL LIFE SAFETY PLAN

Scale: 3/32"=1'-0" (1:128)

McCoy Architects LLC
524 East High Street
Lexington KY 40502
mccoyarchitects.com
tel 859.233.1884

VERIDUS GROUP
3280 N. Shadeland Ave. Ste. A
Indianapolis IN 46220
theveridusgroup.com
317.598.6647

context DESIGN
12 South Main St. Ste. 200
Fortville IN 46040
context-design.com
317.458.6900

A&A ENGINEERING
CIVIL • STRUCTURAL
6036 Renaissance Place
Toledo OH 43623
aa-engineers.com
419.292.1983

E-TECH CONSULTANTS PLLC
378 Park Avenue
Lexington KY 40502
859.254.4200

Al Salam Foundation
ISLAMIC LIFE CENTER
14120 Shelborne Road
Carmel IN 46074

Construction Drawings
3/17/2021

BID SET with all prior Revisions
9/21/2021

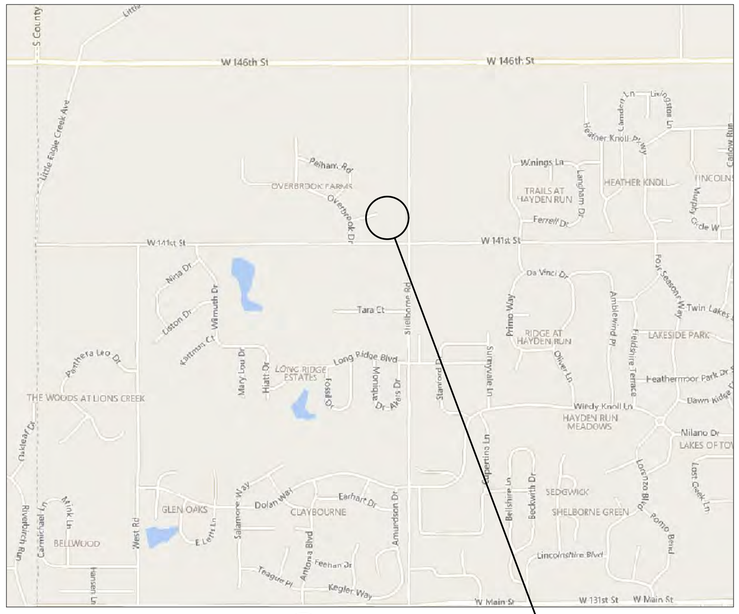
COVER SHEET & LIFE SAFETY PLANS

SET NO.

ISLAMIC LIFE CENTER

CONSTRUCTION DOCUMENTS

14120 SHELBORNE ROAD
CARMEL, INDIANA 46074



LOCATION MAP

Project Site

VICINITY MAP

Project Site

Sheet List Table	
Sheet Number	Sheet Title
C1	TITLE SHEET
C2	EXISTING TOPOGRAPHY
C5	DEMOLITION PLAN SOUTH
C6	DEMOLITION PLAN CENTER
C7	DEMOLITION PLAN NORTH
C8	SITE PLAN SOUTH
C9	SITE PLAN CENTER
C10	SITE PLAN NORTH
C11	SITE DETAILS
C11.1	SITE DETAILS
C12	GRADING PLAN SOUTH
C13	GRADING PLAN CENTER
C14	GRADING PLAN NORTH
C15	UTILITY PLAN SOUTH
C16	UTILITY PLAN CENTER
C17	UTILITY PROFILES
C18	UTILITY PROFILES
C19	UTILITY PROFILES
C20	UTILITY PROFILES
C21	UTILITY PROFILES
C23	EMERGENCY FLOOD ROUTING CENTER
C22	EMERGENCY FLOOD ROUTING SOUTH
C24	UTILITY DETAILS
C25	UTILITY DETAILS
C26	UTILITY DETAILS
C27	EROSION CONTROL PLAN SOUTH
C28	EROSION CONTROL PLAN CENTER
C29	EROSION CONTROL PLAN NORTH
C30	EROSION CONTROL DETAILS
C31	STORM WATER POLLUTION PROTECTION PLAN
C32	CITY OF CARMEL CONCRETE POLICY
C33	CITY OF CARMEL PAVING POLICY
C34	SANITARY SPECS
L1	LANDSCAPE PLAN
L2	LANDSCAPE PLAN
L3	LANDSCAPE DETAILS
L4	CONCEPT IRRIGATION PLAN
L5	CONCEPT IRRIGATION DETAILS

PROJECT DESCRIPTION

PROPOSED BUILDING WITH ASSOCIATED PARKING, GRADING, AND UTILITIES.
SUMMER 2021 IS THE ANTICIPATED CONSTRUCTION START DATE

LAND DESCRIPTION

SEE C100 EXISTING TOPOGRAPHY

CONTACT INFORMATION

OWNER: AL SALAM FOUNDATION INC.
ASHHAR MADNI
9551 VALPARAISO CT.
INDIANAPOLIS, IN 46268
(317) 324-8202
ISLAMICLIFECENTER@GMAIL.COM

ARCHITECT: MCCOY ARCHITECTS LLC
CHRISTOPHER MCCOY
524 EAST HIGH STREET
LEXINGTON, KY 40502
(859) 233-1884

CIVIL ENGINEER: THE VERIDUS GROUP
TIMOTHY JENSEN, P.E.
6280 N. SHADELAND AVE., SUITE A
INDIANAPOLIS, IN 46220
(317) 598-6647
TJENSEN@THEVERIDUSGROUP.COM

CONTRACTOR: TBD

SITE DETAILS	
ZONING DISTRICT	CARMEL, INDIANA
LOT SIZE	4.67 ACRES
BUILDING SIZE	13,710 SQ FT
PERVIOUS SURFACE AREA	117,612 SQ FT
IMPERVIOUS SURFACE AREA	85,813 SQ FT
PARKING SPACES (including future)	110 SPACES
TOTAL DISTURBED AREA	5.83 ACRES

CONTRACTOR TO NOTIFY NEIGHBORING PROPERTIES 14 DAYS PRIOR TO CONSTRUCTION

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE
SANITARY SEWER	TRI-CO REGIONAL SEWER	RYAN HARTMAN	(317) 844-9200
STORM DRAINAGE	CARMEL DPT. OF STORM WATER	JERRY KASHMAN	(317) 571-2441
WATER SERVICE	CARMEL UTILITY	JON DUFF	(317) 571-2442
GAS SERVICE	VECTREN	TBD	(800) 227-1376
ELECTRIC SERVICE	DUKE ENERGY	ERIN SCHNEIDER	(317) 261-8222
TELEPHONE	AT&T	TBD	TBD
COMMUNICATION	COMCAST	TBD	TBD

UTILITY STATEMENT

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

TIMOTHY M. JENSEN
REGISTERED No. PE 10708270 STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

VERIDUS ENGINEERING
6280 N. Shadeland Avenue, Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647 | www.theveridusgroup.com

Al Salam Foundation
ISLAMIC LIFE CENTER
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021
TAC RESPONSE 6.0 10/07/2021

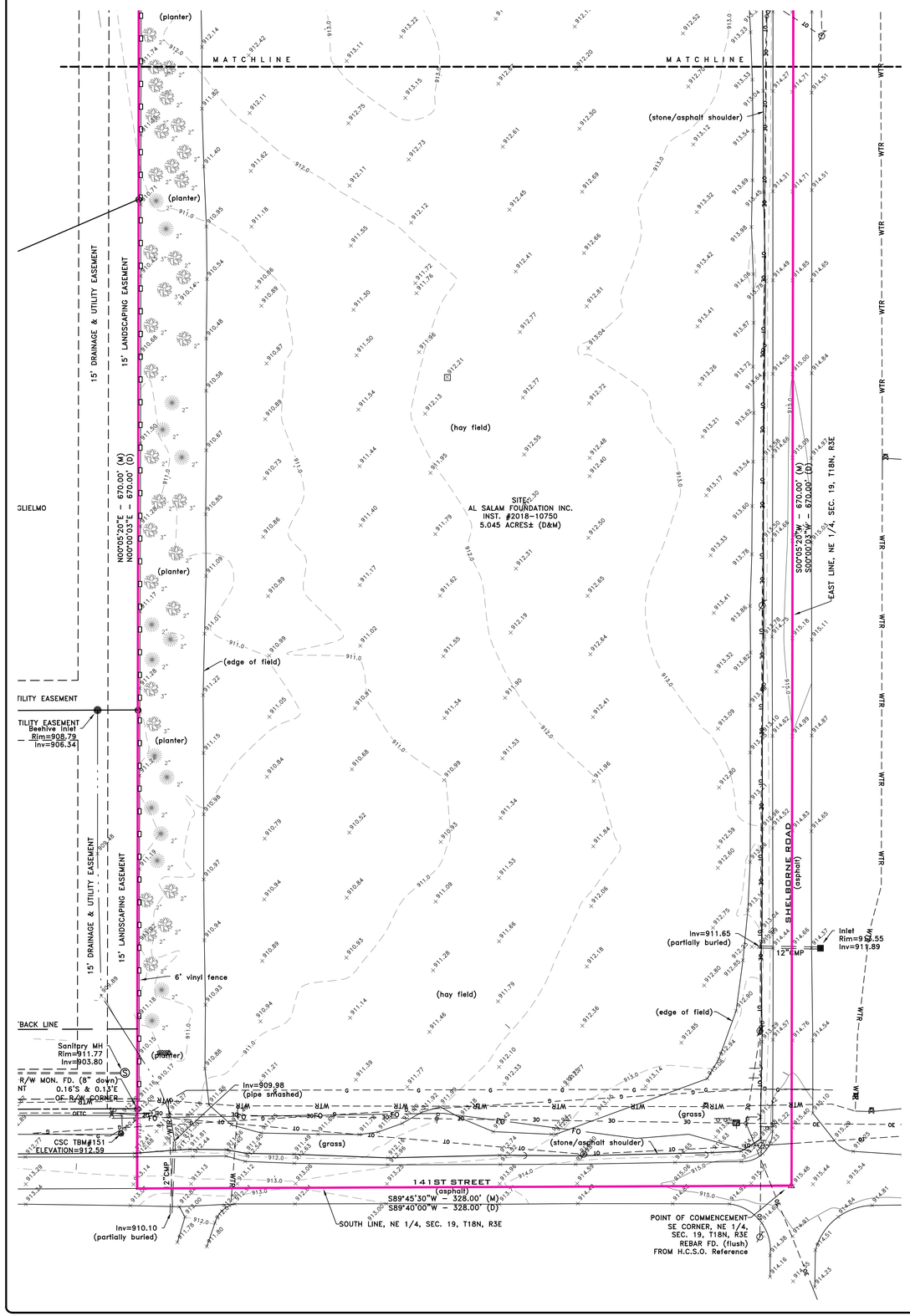
TITLE SHEET

C1

PROJECT NO.: 2020.0113 | DRAWN BY: MWJ | CHECKED BY: TMJ

PRINT DATE: 10/27/21
PLOT SCALE: 1:1 EDIT DATE: 10/27/21 - 11:45 AM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\C001 TITLE SHEET.DWG

TOPOGRAPHIC / BOUNDARY RETRACEMENT SURVEY



VERTICAL DATUM:

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

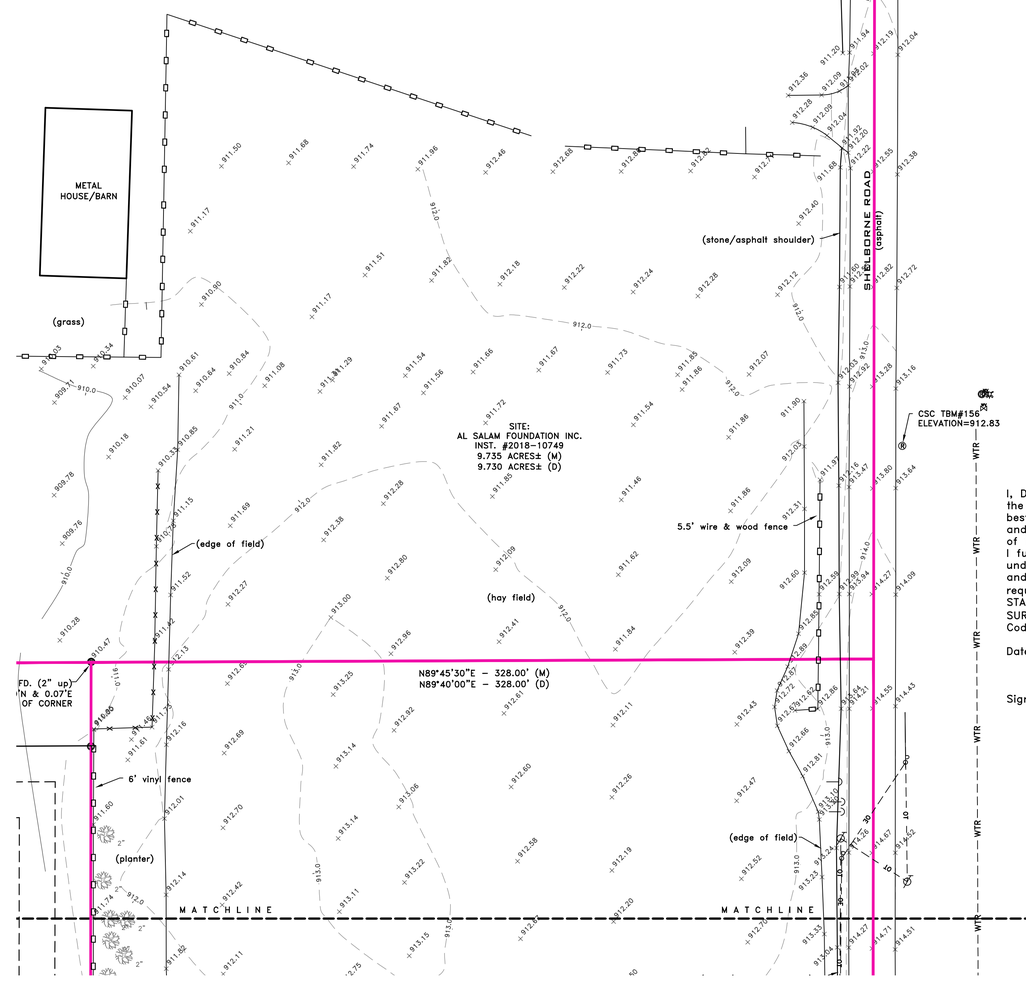
A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

30 0 15 30

(IN FEET)
1 inch = 30 ft.



LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE – SQUARE / ROUND
12" 36"	CONIFEROUS TREE & SIZE DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

I, Donald R. Mosson, a registered land surveyor in the State of Indiana, do hereby certify that to the best of my knowledge and belief, this is a true and correct topographic survey of northwest corner of 141st Street & Shelborne Rd in Carmel, Indiana. I further certify that this survey was performed under my direct supervision on June 4–9, 2020 and was performed in accordance with the requirements of Rule 12 of the "MINIMUM STANDARDS FOR COMPETENT PRACTICES OF LAND SURVEYING" as prescribed by Indiana Administrative Code 865, 1.1–12.

Dated: June 9, 2020

Signed: _____
Professional Land Surveyor No. 9600013

DONALD R. MOSSON
REGISTERED
No. 9600013
STATE OF
INDIANA
LAND SURVEYOR

EXISTING TOPOGRAPHY

C2

VICINITY MAP
NOT TO SCALE

UTILITY STATEMENT:

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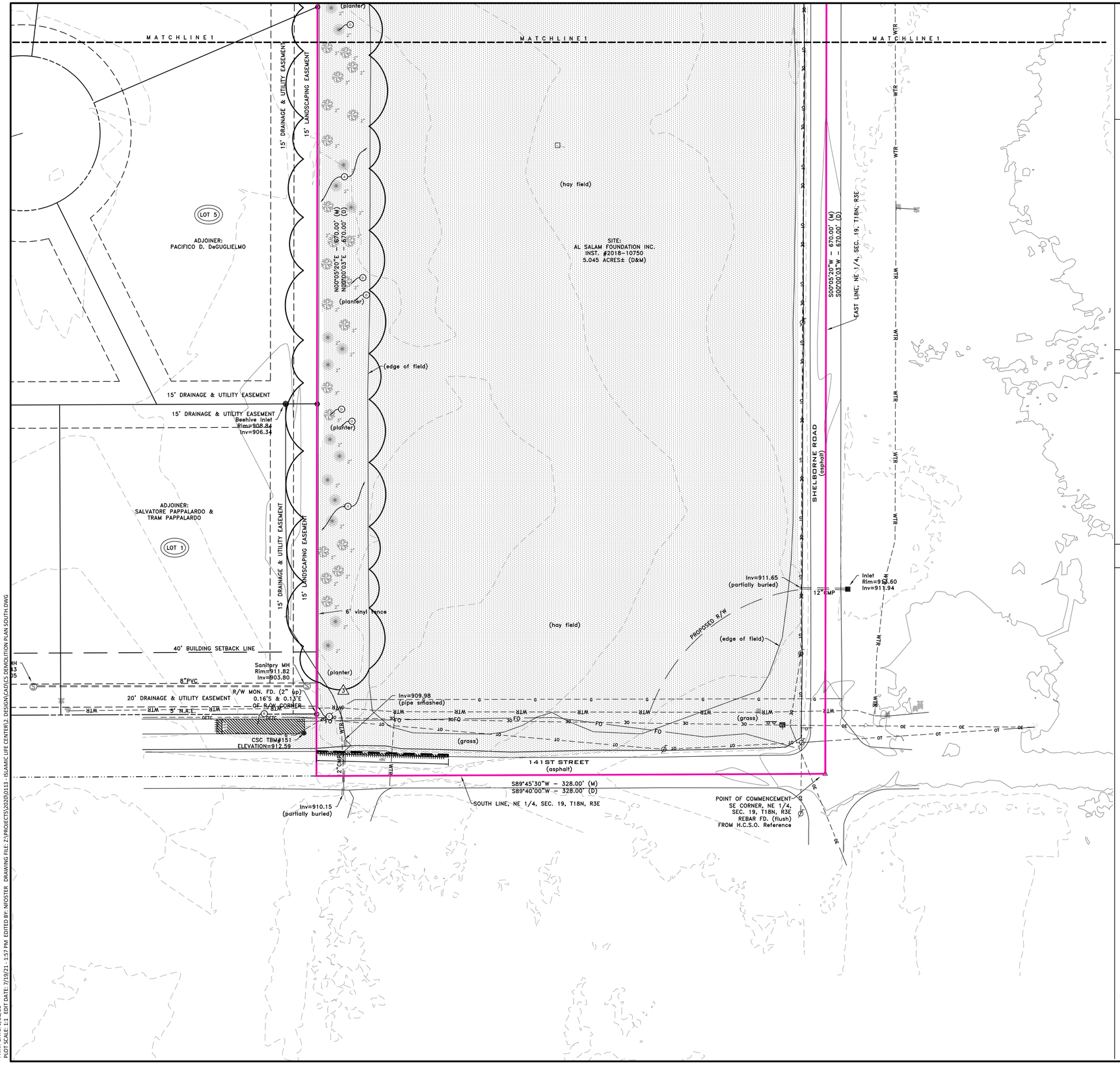
PREPARED FOR:
VERIDUS GROUP
6280 N SHADELAND AVE
INDIANAPOLIS, IN 46220

PREPARED BY: DONALD R. MOSSON
CENTRAL STATES CONSULTING, LLC
23-B NORTH GREEN STREET
BROWNSBURG, INDIANA 46112
PHONE: 317-858-8662 FAX: 317-858-8672

CENTRAL STATES CSC CONSULTING, LLC
SURVEYING & LAND PLANNING

TOPOGRAPHIC BOUNDARY RETRACEMENT SURVEY
141st STREET & SHELBORNE ROAD
CARMEL, INDIANA

DATE: 06-07-2020	PROJECT NUMBER 20-043
DWN. BY: RJM	
CHKD. BY: DRM	
SCALE: 1" = 30'	SHEET 1 OF 1



PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 7/19/21 - 1:57 PM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2 DESIGN\CAD\CS-DEMOLITION PLAN-SOUTH.DWG

0' 30' 60'
SCALE: 1"=30'

KEYNOTES

A. LANDSCAPE ARCHITECT TO REVIEW AND COORDINATE EXISTING LANDSCAPE PLANT MATERIAL TO BE RELOCATED FOR SITE DEVELOPMENT.
B. SIDEWALK SECTION TO BE REPLACED TO MATCH PROPOSED ADA CONDITIONS.
C. FENCE TO BE REMOVED.
D. EXISTING TREES TO BE REMOVED

DEMOLITION LEGEND

- CONCRETE CURB & GUTTER TO BE REMOVED
- PAVEMENT TO BE SAWCUT
- UTILITY TO BE REMOVED
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- VEGETATION TO BE CLEARED
- OBJECT TO BE PROTECTED

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
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OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

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

PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

GENERAL NOTES

1. THE DEMOLITION PLAN IS BASED ON INFORMATION PROVIDED ON THE TOPOGRAPHIC SURVEY. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND COMPARING THE DOCUMENTS TO THE FIELD CONDITIONS. IF DISCREPANCIES OCCUR, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD.
2. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING STRUCTURES, STONE, CONCRETE AND PAVEMENT OFF SITE UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A MONUMENT IS MOVED OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SURVEYOR OF RECORD.
4. THIS SECTION REQUIRES THE REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:
   a. SPECIFIED OBJECTS
   b. VEGETATION WITHIN THE WORK AREA.
5. CONTRACTOR SHALL SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF THE CONTRACT AND APPROPRIATE SPECIFICATION SECTIONS:
   a. A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.
6. JOB CONDITIONS
   a. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM SITE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.
   b. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.
   c. EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
   d. TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
   e. DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRE BY GOVERNING AUTHORITIES.
   f. PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION, CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
   g. DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
   h. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES. (AS REQUIRED)
7. DEMOLITION
   a. BELOW-GRADE CONSTRUCTION: DEMOLISH FOUNDATION WALLS AND BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
   b. FILLING VOIDS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION. BACK FILL TO BE COMPACTED TO 90% STANDARD PROCTOR OR 98% ON NEW STRUCTURES.
8. DISPOSAL OF DEMOLISHED MATERIALS
   a. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
   b. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
9. TEMPORARY TRAFFIC CONTROL DURING DEMOLITION AND CONSTRUCTION SHALL CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
10. UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
11. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
12. ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO REMOVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUIST BY THE CITY TO ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
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BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
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PROFESSIONAL ENGINEER
03/17/2021

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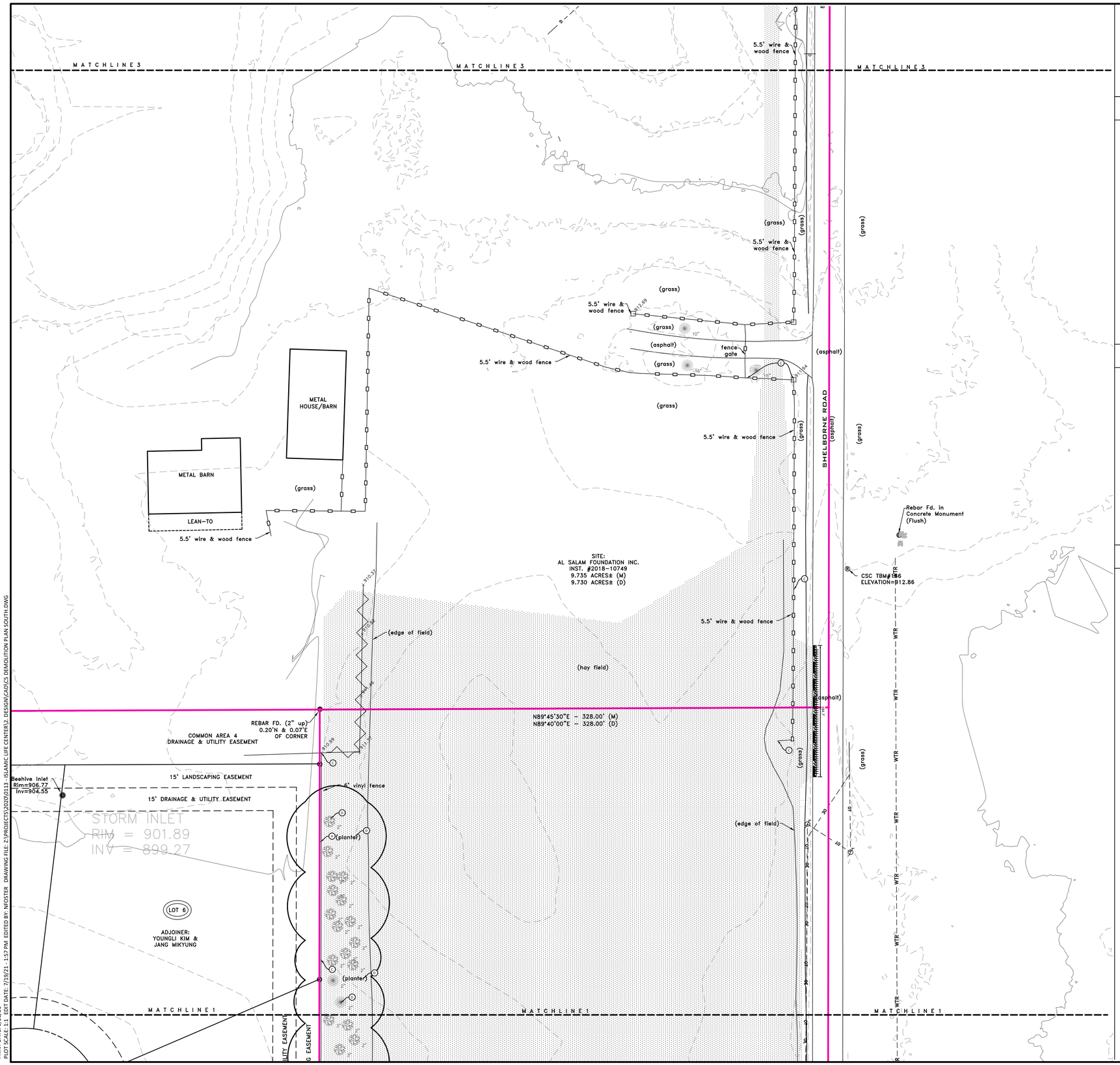
DEMOLITION PLAN SOUTH

C5



PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 7/19/21 - 1:57 PM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 ISLAMIC LIFE CENTER\2 DESIGN\CAD\C5 DEMOLITION PLAN SOUTH.DWG

SCALE: 1"=30'

KEYNOTES

A. LANDSCAPE ARCHITECT TO REVIEW AND COORDINATE EXISTING LANDSCAPE PLANT MATERIAL TO BE RELOCATED FOR SITE DEVELOPMENT.
B. SIDEWALK SECTION TO BE REPLACED TO MATCH PROPOSED ADA CONDITIONS.
C. FENCE TO BE REMOVED.
D. EXISTING TREES TO BE REMOVED

DEMOLITION LEGEND

- CONCRETE CURB & GUTTER TO BE REMOVED
- PAVEMENT TO BE SAWCUT
- UTILITY TO BE REMOVED
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
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EXISTING LEGEND

LEGEND:

	DESCRIPTION:
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	CLEAN-OUT
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OET	OVERHEAD ELE. & TEL
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VCP	vitrified clay pipe
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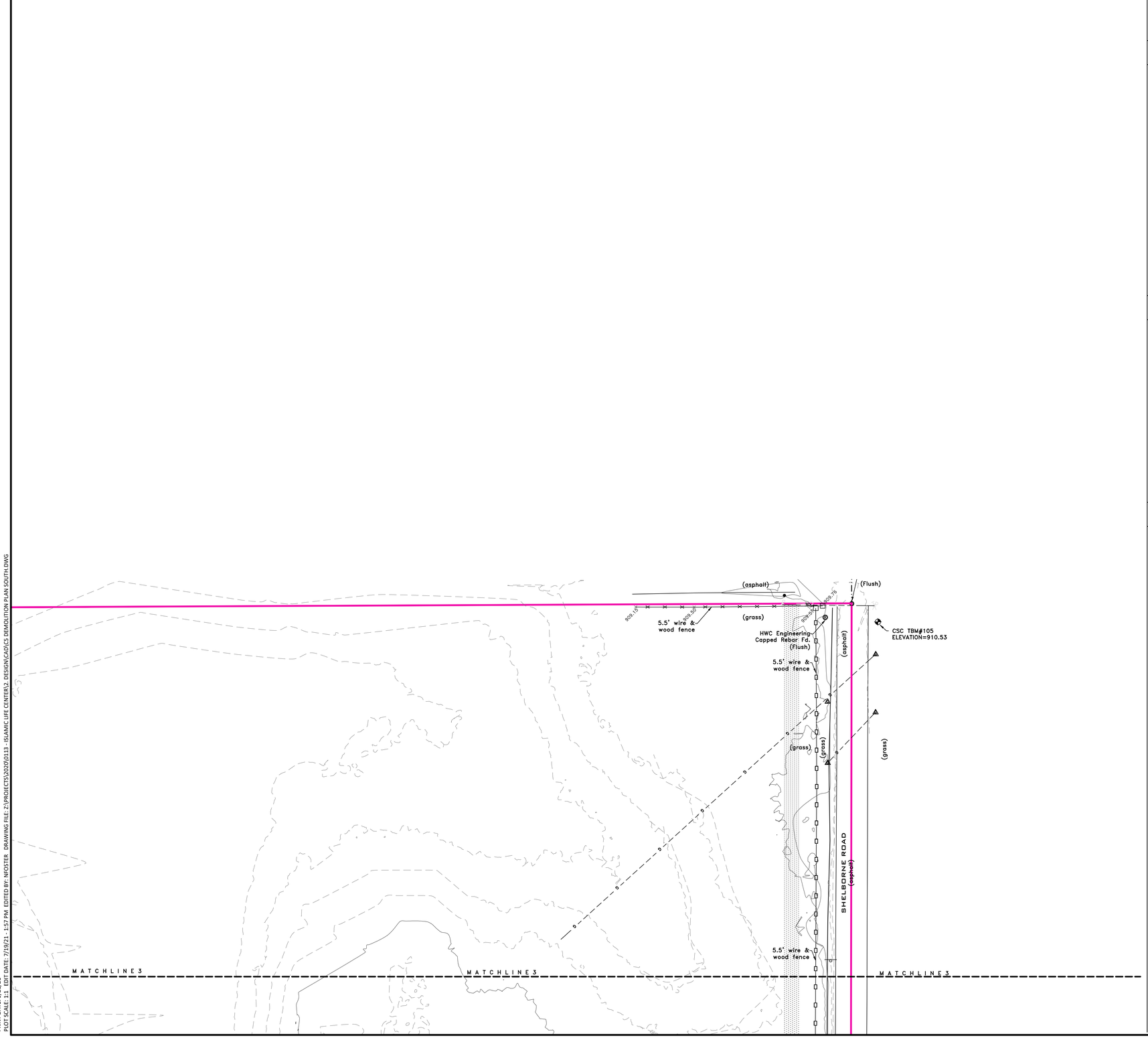
DEMOLITION PLAN CENTER

C6



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0' 30' 60'

SCALE: 1"=30'

KEYNOTES

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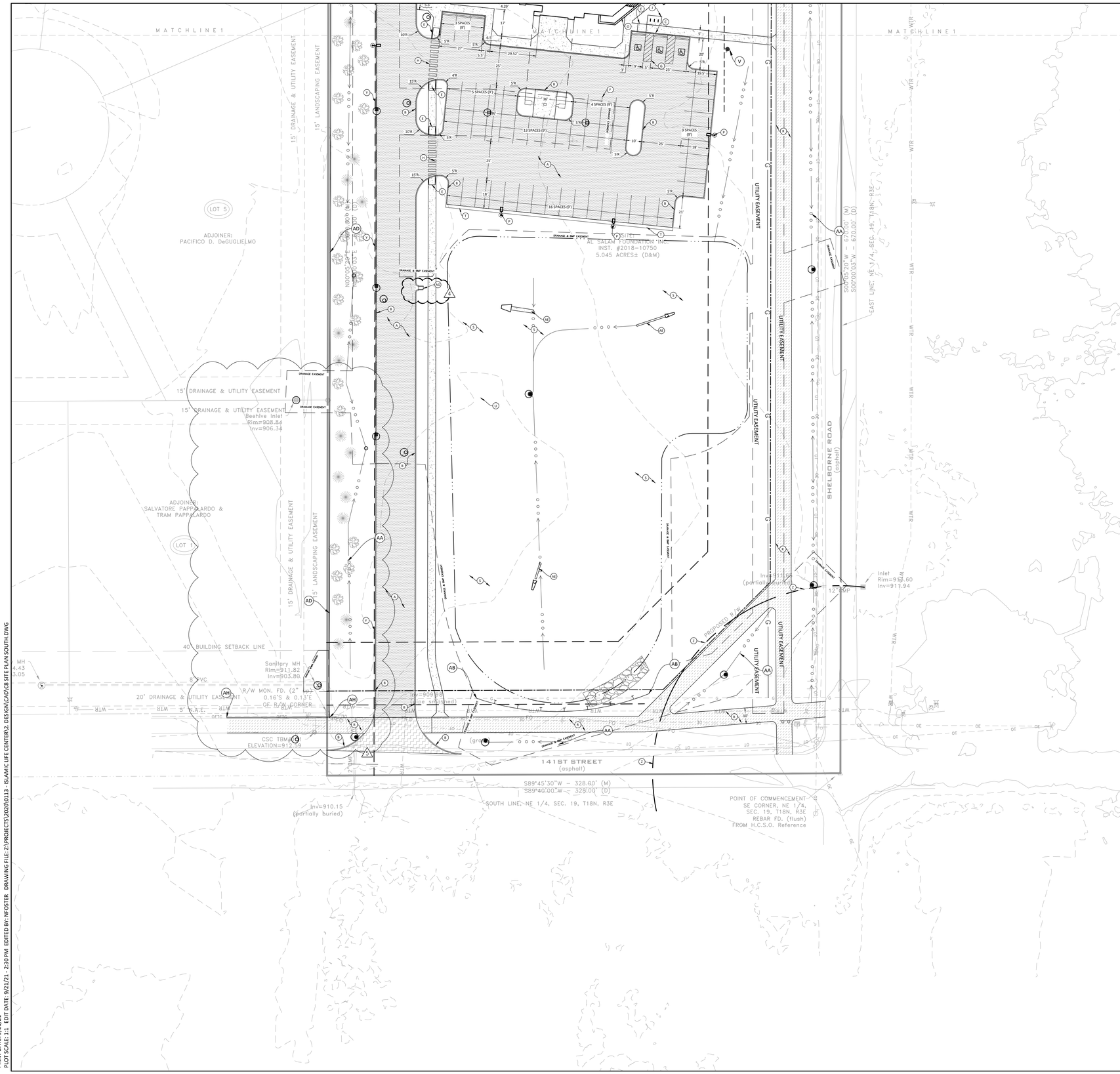
DEMOLITION PLAN NORTH

C7



SCALE: 1"=30'

KEYNOTES

A. ASPHALT PARKING
B. VERTICAL CONCRETE CURB
C. FLUSH CURB
D. TAPERED CURB TERMINATION
E. HANDICAP RAMP
F. 4" WHITE-LINE ASPHALT STRIPING
G. 4" BLUE-LINE HANDICAP STRIPING
H. STRIPED CROSSWALK
I. PARKING BUMPERS
J. BIKE RACKS
K. REFER TO MEP SHEETS FOR COORDINATION OF CONDENSERS, ELECTRICAL TRANSFORMER AND CABINETS
L. GROUND SIGN. SEE DETAIL D+E/A9
M. GAS AND ELECTRIC STUB FOR OUTDOOR GRILL. COORDINATE WITH MEP PLANS
N. WINDOW WELL. SEE ARCHITECTURAL
O. EXTERIOR STAIR TO L.L. SEE ARCHITECTURAL
P. POLE LIGHT & CONCRETE BASE
Q. 30' FLAG POLE
R. ASPHALT MULTI-USE PATH (10')
S. DETENTION POND (SEE GRADING PLAN)
T. ROLLED CONCRETE CURB (SEE SITE DETAIL)
U. OUTLET CONTROL STRUCTURE (SEE UTILITY DETAIL)
V. FIRE HYDRANT ASSEMBLY
W. FIRE DEPARTMENT CONNECTION
X. DUMPSTER ENCLOSURE. SEE DETAIL A+B/A4
Y. SETBACK LINE
Z. FUTURE R/W ROAD IMPROVEMENT
AA. SUBSURFACE DRAIN TO BE ADDED UNDER SURFACE DRAIN
AB. TIMBER GUARDRAIL (SEE SITE DETAIL)
AC. 1500 GREASE TRAP(SEE MEP PLANS FOR DETAILS)
AD. PROPOSED WALL DESIGNED (SEE SITE DETAILS)
AE. CONCRETE SWALE (SEE SITE DETAILS)
AF. 24" SAMPLE PORT(SEE UTILITY DETAILS)
AG. CURB TURNOUT
AH. PROPOSED WALL WITH HANDRAIL (SEE SITE DETAILS)

SITE LEGEND

- LIGHT DUTY ASPHALT PAVEMENT
- MULTI-USE PATH ASPHALT PAVEMENT
- RIGHT-OF-WAY PAVEMENT. SEE C-11 CARMEL STANDARD DETAIL 10-22
- CONCRETE
- GRAVEL
- ADA ACCESSIBLE PARKING SPACE

SITE DATA

SITE ZONING:	S-1 SPECIAL USE
PROJECT AREA:	5.83 Acres
BUILDING AREA:	±13,710 SF
STANDARD PARKING:	104
HANDICAP PARKING PROVIDED (includes 6 van accessible spaces)	6
TOTAL PROPOSED PARKING PROVIDED	110

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

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GENERAL NOTES

1. ANY DISCREPANCY IN THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW.
2. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS AS APPROPRIATE.
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT (EOP) OR FACE OF CURB, UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
5. ALL DIMENSIONS ARE PARALLEL WITH OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
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8. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
9. ALL EXCAVATED AREAS SHALL BE SEEDED AFTER FINISH GRADING OR IF LEFT UNDISTURBED FOR MORE THAN 7 DAYS UNLESS OTHERWISE NOTED. ALL NEW SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOP SOIL.
10. ALL UTILITY TRENCHES UNDER AND WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
11. ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS, WITH A MAXIMUM CROSS SLOPE OF ¼ FT. & MAXIMUM LINEAR SLOPE OF 1:20.
12. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A CORNER MONUMENT IS MOVED OR DAMAGED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OR SURVEYOR OF RECORD.
13. CONCRETE CONTRACTION, OR CONSTRUCTION JOINTS, SHALL BE SAWN JOINTS PERFORMED WITHIN 24 HRS. OF THE ORIGINAL FINISH. CONCRETE JOINTS TO BE PROVIDED IN ACCORDANCE WITH ACI GUIDELINES.
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16. ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT -OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY.

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
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12" 36"	CONIFEROUS TREE & SIZE DECIDUOUS TREE & SIZE
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	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
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WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
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OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.:	2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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PERMIT SET
03/17/2021

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04/15/2021

TAC RESPONSE 2.0
06/09/2021

TAC RESPONSE 3.0
07/26/2021

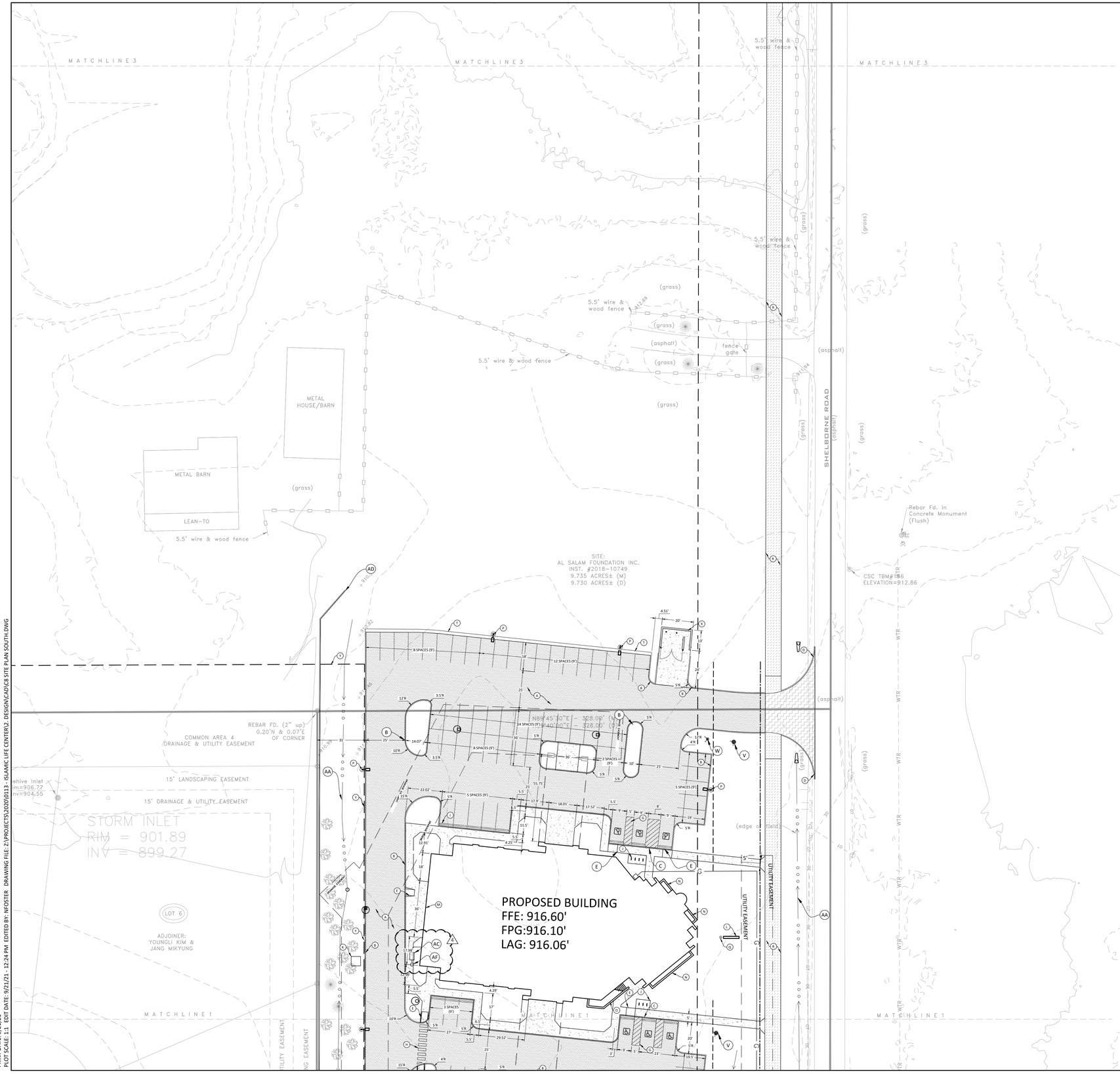
TAC RESPONSE 4.0
08/30/2021

TAC RESPONSE 5.0
09/21/2021

SITE PLAN SOUTH

C8

PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 9/21/21 - 2:30 PM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\C8 SITE PLAN SOUTH.DWG



SCALE: 1"=30'

KEYNOTES

A. ASPHALT PARKING
B. VERTICAL CONCRETE CURB
C. FLUSH CURB
D. TAPERED CURB TERMINATION
E. HANDICAP RAMP
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L. GROUND SIGN. SEE DETAIL D+E/A9
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U. OUTLET CONTROL STRUCTURE (SEE UTILITY DETAIL)
V. FIRE HYDRANT ASSEMBLY
W. FIRE DEPARTMENT CONNECTION
X. DUMPSTER ENCLOSURE. SEE DETAIL A+B/A4
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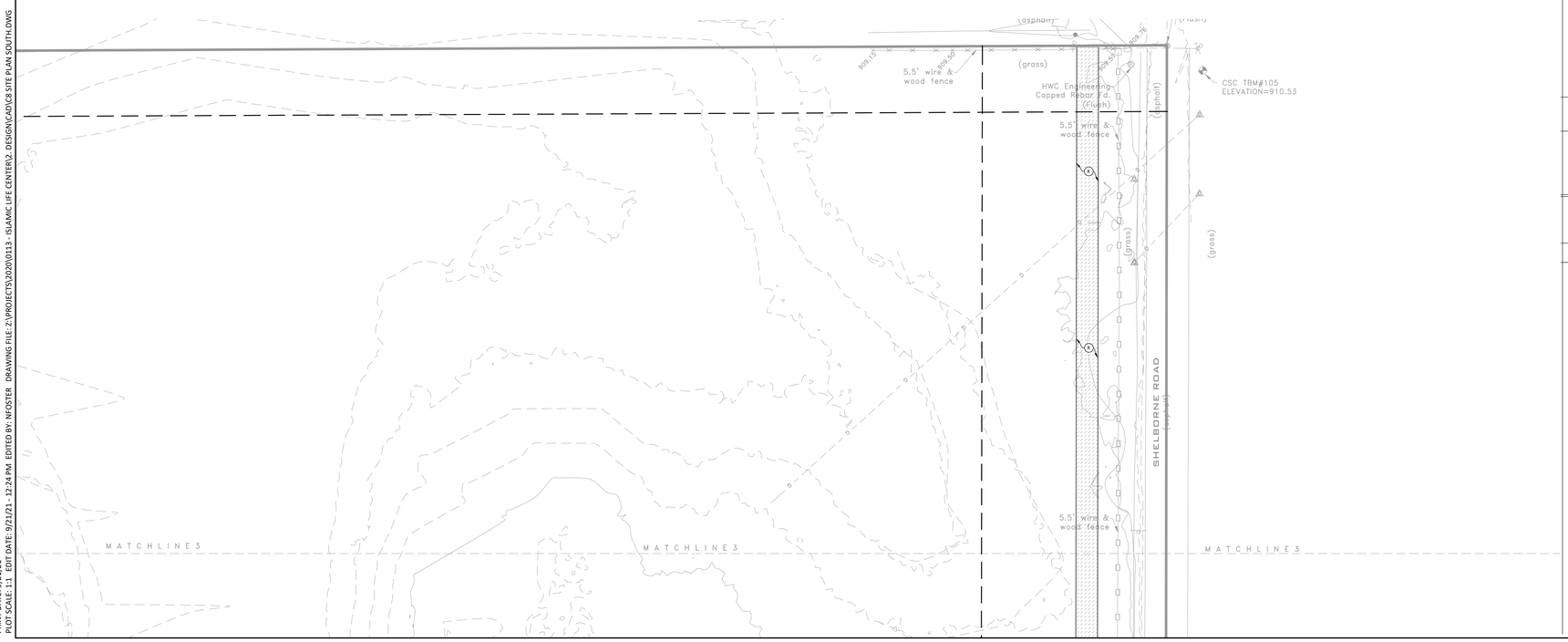
SITE PLAN CENTER

C9

PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 9/21/21 - 12:24 PM EDITED BY: NFOSTER DRAWING FILE Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\C6 SITE PLAN SOUTH.DWG



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0' 30' 60'

SCALE: 1"=30'

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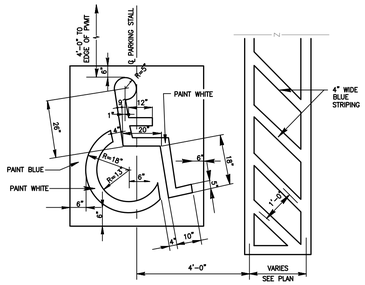
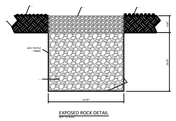
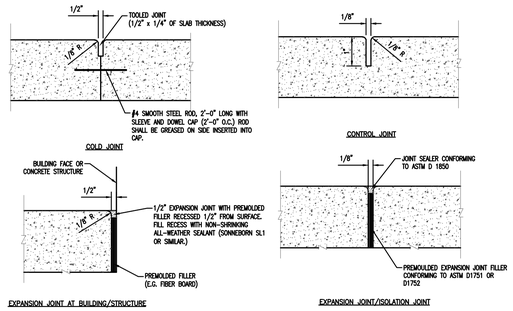
SITE PLAN NORTH

C10

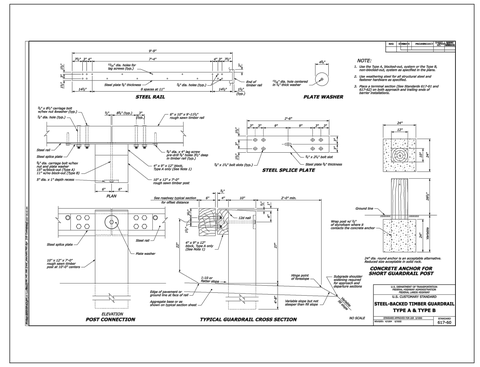


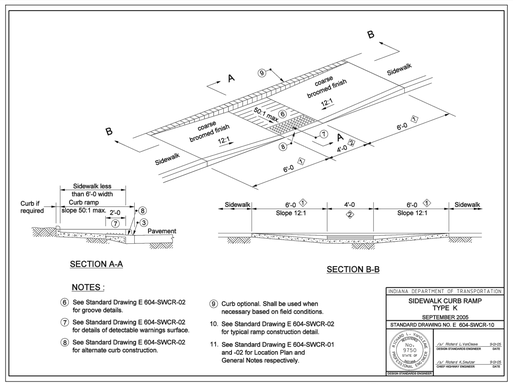
ADA PARKING SPACE AND SYMBOL





TYPICAL CONCRETE JOINT DETAILS



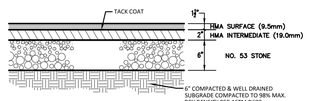


NOTES:

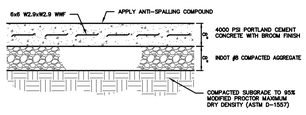
6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of detectable warnings surface.
8. See Standard Drawing E 604-SWCR-02 for alternate curb construction.
9. Curb optional. Shall be used when necessary based on field conditions.
10. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

ADA ACCESSIBLE RAMP, TYPE 'K'

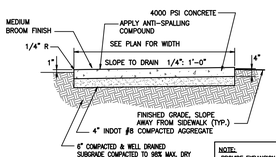
NOTE:
DETECTABLE WARNING STRIP NOT REQUIRED FOR PRIVATE DRIVE



AUTOMOBILE LIGHT DUTY ASPHALT PAVEMENT SECTION



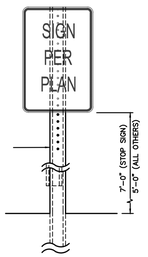
HEAVY DUTY CONCRETE PAVEMENT
NOT TO SCALE (REV. 12/15)



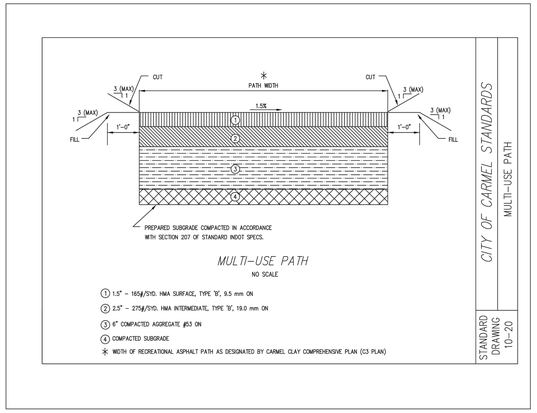
NOTE:
PROVIDE EXPANSION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS. CONTROL JOINTS AT 5'-0" O.C. OR AS SHOWN ON SITE PLANS, WITH EXPANSION JOINTS AT 30'-0" O.C. MAX.

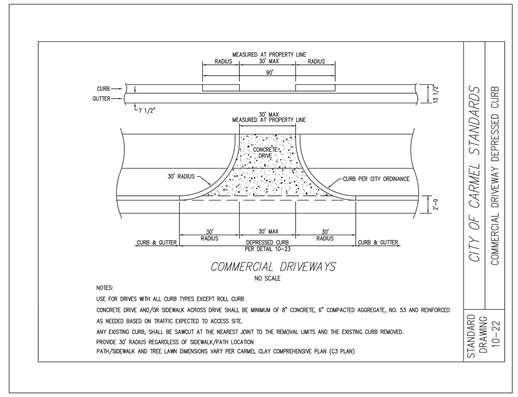
CONCRETE SIDEWALK

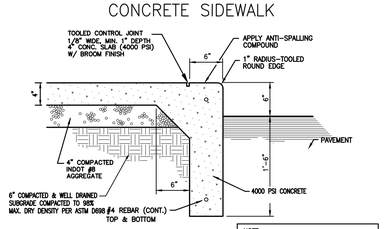
NOTE:
ALL SIGNS SHALL BE IN COMPLIANCE WITH RIVER RIDGE COMMERCE CENTER DEVELOPMENT STANDARDS.



PARKING SIGNS

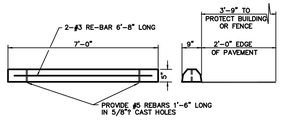




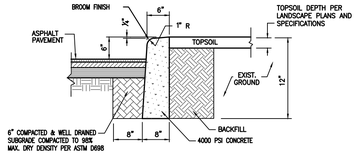


NOTE:
PROVIDE ISOLATION JOINTS AT BUILDINGS OR IMMOVABLE OBJECTS. CONTROL JOINTS AT 5'-0" O.C. OR AS SHOWN ON SITE PLANS, WITH EXPANSION JOINTS AT 30'-0" O.C. MAX.

COMBINED CONCRETE CURB AND WALK

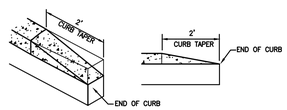


PRECAST CONCRETE WHEEL STOPS

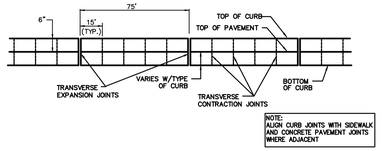


INSTALL JOINTS EVERY 15' AND ALIGN WITH SIDEWALK JOINTS WHERE ADJACENT TO SIDEWALK.

6" CONCRETE CURB

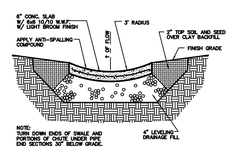


CONCRETE CURB TAPER

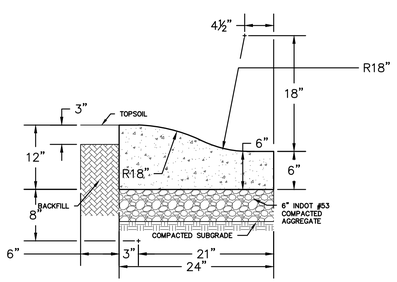


NOTE:
ALIGN CURB JOINTS WITH SIDEWALK AND CONCRETE PAVEMENT JOINTS WHERE ADJACENT

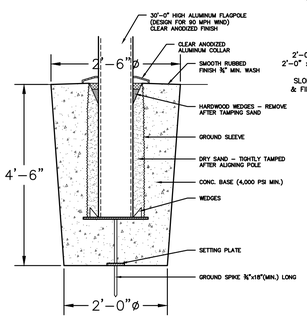
CURB JOINT DETAIL



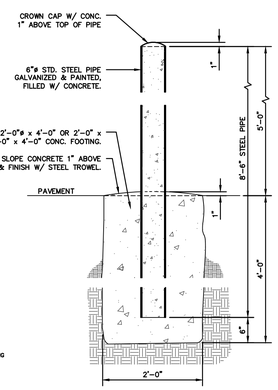
CONCRETE SWALE DETAIL
NOT TO SCALE



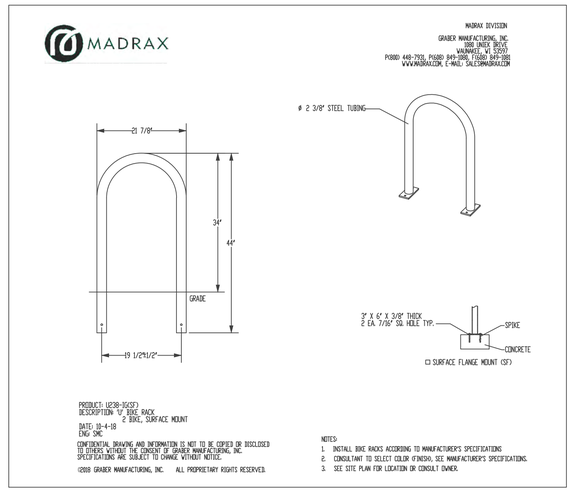
CONCRETE ROLL CURB
NOT TO SCALE



FLAG POLE BASE DETAIL
NOT TO SCALE (REV. 02/16)



CONCRETE BOLLARD DETAIL
NOT TO SCALE (REV. 12/15)



PROJECT NO.: 2020.0113 | DRAWN BY: MWJ | CHECKED BY: TMJ

TIMOTHY M. JENSEN
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No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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Al Salam Foundation
ISLAMIC LIFE CENTER
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
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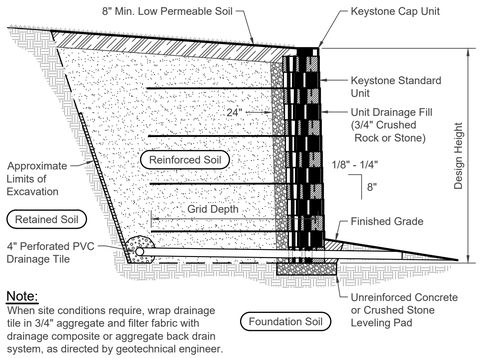
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021

SITE DETAILS

C11

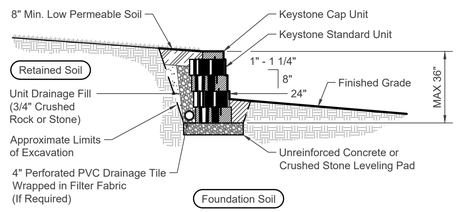
PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 8/30/21 - 5:03 PM EDITED BY: MACKSON DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\C11 SITE DETAILS.DWG



Note:
When site conditions require, wrap drainage tile in 3/4" aggregate and filter fabric with drainage composite or aggregate back drain system, as directed by geotechnical engineer.

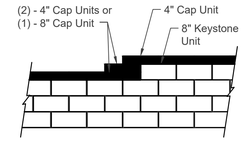
Typical Reinforced Wall Section

Standard Unit - Near Vertical Setback



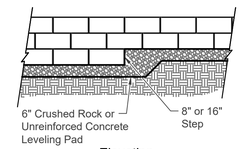
Typical Gravity Wall Section

Standard Unit - 1" Setback



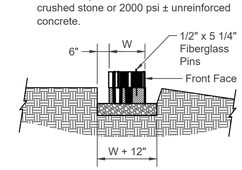
Note:
1. Secure all cap units with Keystone Kapseal or equal.

Top of Wall Steps



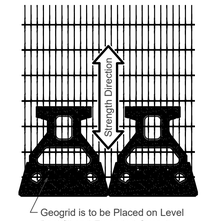
Elevation

Note:
1. The leveling pad is to be constructed of crushed stone or 2000 psi ± unreinforced concrete.



Section

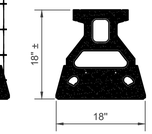
Leveling Pad Detail



Geogrid is to be Placed on Level Backfill and Extended Over the Fiberglass Pins. Place Next Unit. Pull Grid Taught and Backfill. Stake as required.

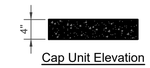
Grid & Pin Connection

Standard Elevation

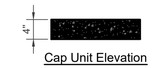


Standard Plan

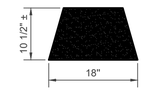
Standard Unit
* Dimensions May Vary by Region



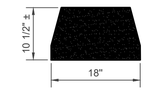
Cap Unit Elevation



Cap Unit Elevation



Cap Unit Plan



Cap Unit Plan

Universal
Cap Unit Option
* Dimensions & Availability Will Vary by Region

Straight Split
Cap Unit Option
* Dimensions & Availability Will Vary by Region

Copyright 2003 Keystone Retaining Wall Systems

Design is for internal stability of the KEYSTONE wall structure only. External stability, including but not limited to foundation and slope stability is the responsibility of the Owner. The design is based on the assumption that the materials within the retained mass, methods of construction, and quality of materials conform to KEYSTONE's specification for this project.

This drawing is being furnished for this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others without the consent of Keystone Retaining Wall Systems, Inc.

KEYSTONE RETAINING WALL SYSTEMS
A CONTECH COMPANY
4444 W 78th Street
Minneapolis, MN 55435
952-897-1040

Standard Unit 18 - Straight Face Details

Keystone Retaining Wall Systems
Typical Wall Details

TIMOTHY M. JENSEN
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PROFESSIONAL ENGINEER
03/17/2021

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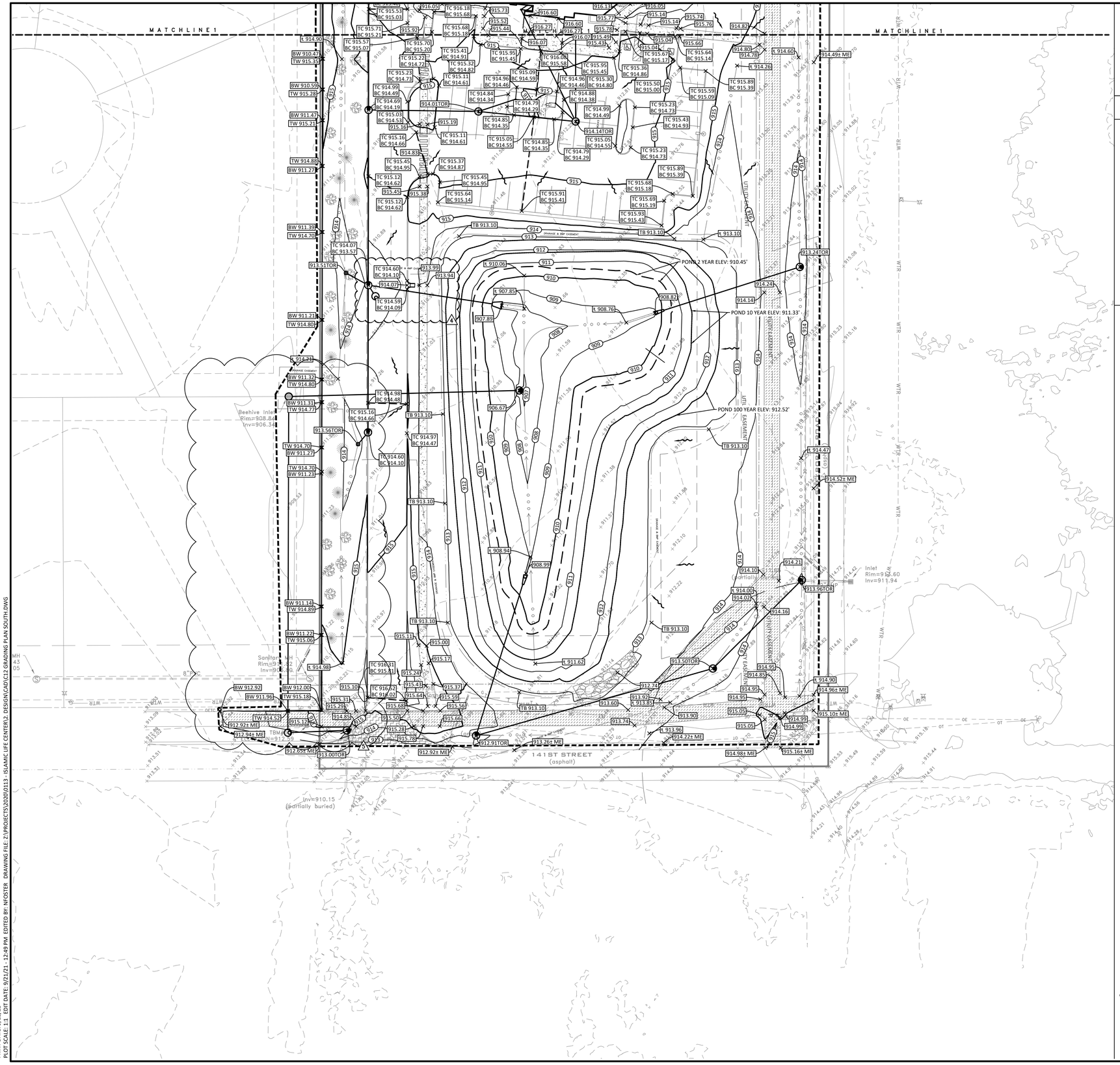
SITE DETAILS

C11.1

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 8/30/21 - 5:03 PM EDITED BY: MJACKSON DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\3. DESIGN\CAD\C11 SITE DETAILS.DWG



SCALE: 1"=30'

GRADING LEGEND

ME	MATCH EXISTING
HP	HIGH POINT
LP	LOW POINT
BC	BOTTOM OF CURB
TC	TOP OF CURB
TR	TOP OF RIM/CASTING
FL	FLOWLINE
TW	TOP OF WALL
BW	BOTTOM OF WALL
000	CONTOURS
	FLOW LINE
TC 000.00 / BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	FLOW ARROW
	RIDGE

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED BY THE RESPONSIBLE PARTY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF UNDER OR WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, THE CONTRACTOR SHALL PROOF ROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUB-DRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR SHALL TEST FOR, AND CORRECT ANY DEFICIENT CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO STANDARD INDOT SPECIFICATIONS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. CONTRACTOR SHALL VERIFY ELEVATION OF ALL EXISTING STORM SEWERS BEFORE INSTALLATION OF THE PROPOSED STORM SEWER. IF A CONDITION IS DISCOVERED THAT PREVENTS INSTALLATIONS PER THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
14. CONTRACTOR SHALL PERFORM GRADING AND COMPACTION AND LIME STABILIZATION OF PAVEMENT SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
15. STRUCTURES RECEIVING SUBSURFACE DRAINS SHALL HAVE BOTH PORTS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
16. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.
17. THE STORM SEWER SYSTEM IS BEING PROPOSED AS A PRIVATE SYSTEM.

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE – SQUARE / ROUND
12" 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

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

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

VERIDUS ENGINEERING
6280 N. Shadeland Avenue, Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647 | www.theveridusgroup.com

ISLAMIC LIFE CENTER

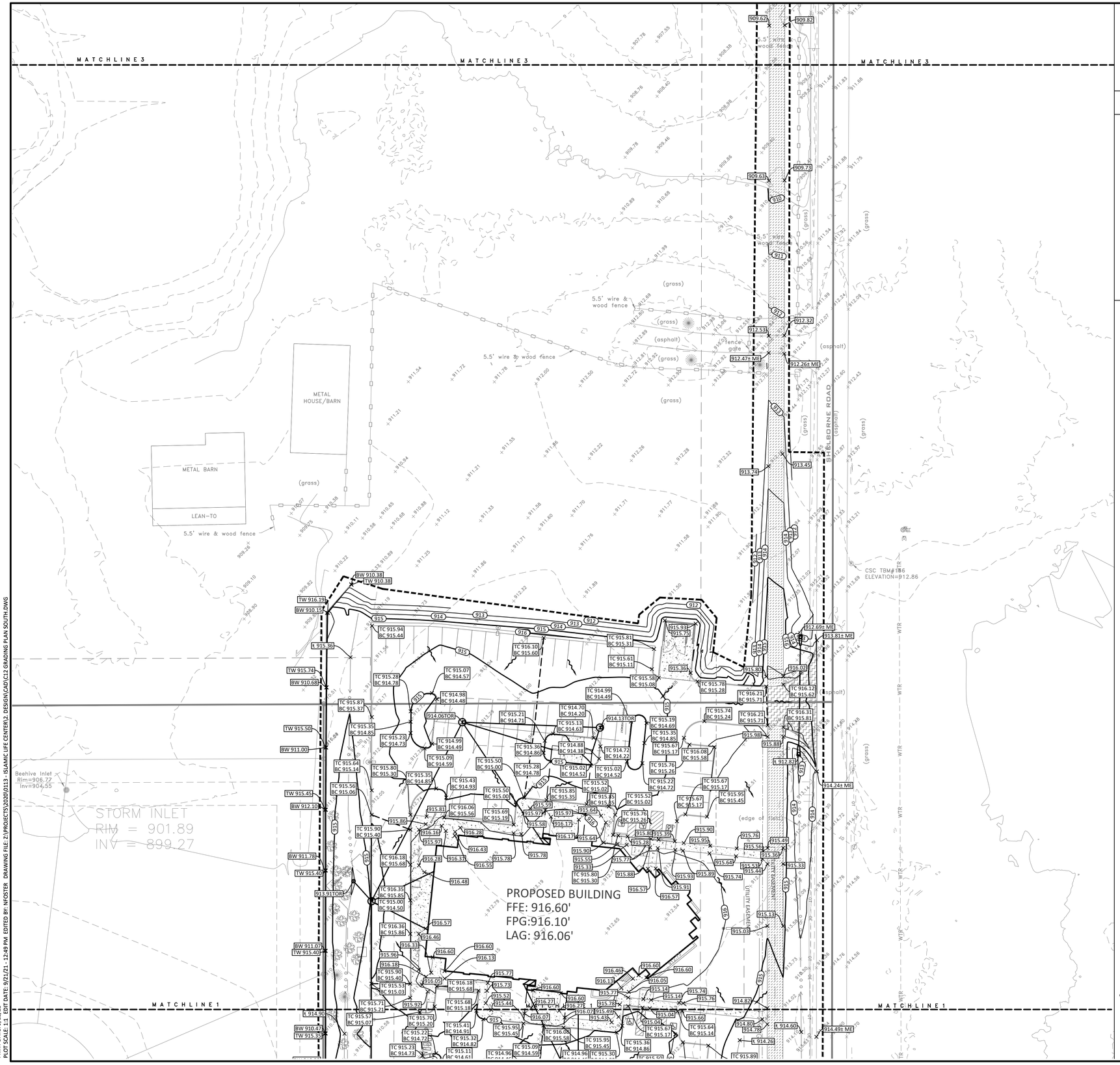
Al Salam Foundation
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021

GRADING PLAN SOUTH

C12

PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 9/21/21 - 12:49 PM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\C12 GRADING PLAN SOUTH.DWG



SCALE: 1"=30'

GRADING LEGEND

ME	MATCH EXISTING
HP	HIGH POINT
LP	LOW POINT
BC	BOTTOM OF CURB
TC	TOP OF CURB
TR	TOP OF RIM/CASTING
FL	FLOWLINE
TW	TOP OF WALL
BW	BOTTOM OF WALL
000	CONTOURS
	FLOW LINE
TC 000.00 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	FLOW ARROW
	RIDGE

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS (VERTICAL AND HORIZONTAL) IN THE FIELD PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
3. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED BY THE RESPONSIBLE PARTY.
4. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTOR'S AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
5. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES WHEN EXCAVATING IS AROUND OR OVER EXISTING UTILITIES. THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF UNDER OR WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, THE CONTRACTOR SHALL PROOF ROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUB-DRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR SHALL TEST FOR, AND CORRECT ANY DEFICIENT CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO STANDARD INDOT SPECIFICATIONS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. CONTRACTOR SHALL VERIFY ELEVATION OF ALL EXISTING STORM SEWERS BEFORE INSTALLATION OF THE PROPOSED STORM SEWER. IF A CONDITION IS DISCOVERED THAT PREVENTS INSTALLATIONS PER THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
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16. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.
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EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
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12" 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
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OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

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

PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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GRADING PLAN CENTER

C13

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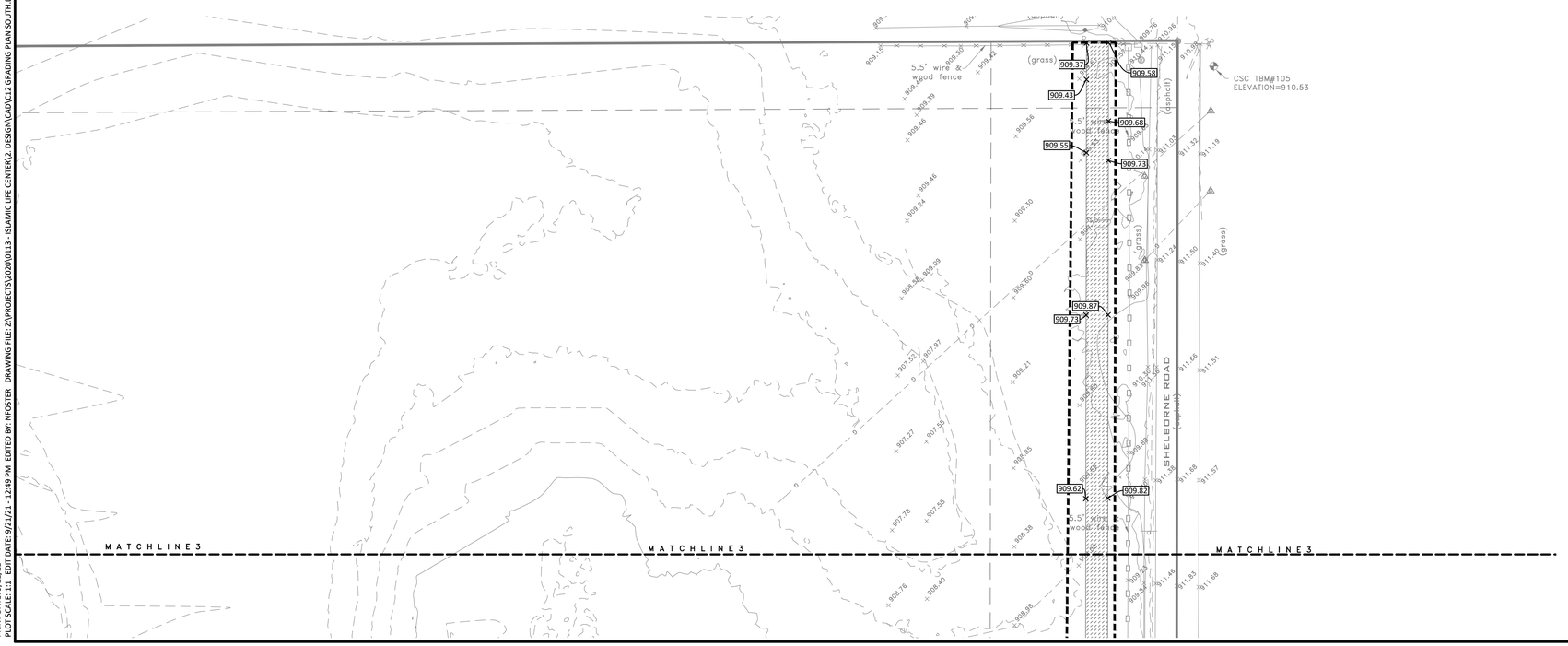
ILC DRAINAGE SUMMARY											
	Existing Conditions				Proposed Conditions						
	Area(AC)	CN	10-Yr Allowable Discharge(cfs)	100 Yr Allowable Dischage(cfs)	Area(AC)	CN	10-Yr Discharge(cfs)	10-Yr Required Detention(CF)	100- Yr Discharge(cfs)	100-Yr Required Detention(CF)	Detention Provided (CF)
Ex Southeast Basin Sheet Flow(E1)	1.88	85									
Ex. South Basin Depresssion (E2)	1.4	85									
Throughfare Plan (E3)	0.52	91	0.38	1.14							
								32,644		**62,073**	**97,580**
Proposed South(P1)					4.83	87	21.04		40.42		
Proposed Throughfare(P2)					0.523	91	1.86		3.4		
Offsite Southeast(P3)					0.974	85	2.45		4.95		
Offsite South(P4)					0.646	84	1.73		3.54		
Total*	3.803		0.38	1.14	6.973		27.08		52.31		
Total After Storm Routing Without Offsite**							**0.37****		**1.14****		
Total After Storm Routing With Offsite***							**2.09*****		**4.56*****		

*Discharge from the site following storm routing.

**Discharge from the site following storm routing and detention not including offsite

***Discharge from the site following storm routing and detention including offsite.



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0' 30' 60'
SCALE: 1"=30'

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GRADING PLAN NORTH

C14

SCALE: 1"=30'

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

KEYNOTES

DRAINAGE
D1. UNDERDRAIN (SEE DETAIL)
D2. EXPOSED ROCK DITCH @ 0.5% (SEE DETAIL)
D3. PAVEMENT UNDERDRAIN(SEE DETAIL)
D4. POND TO BE NATURALIZED PER CITY OF CARMEL STANDARDS. REFER TO LANDSCAPE PLANS FOR DETAILS.
D5. DRAINAGE AND BMP EASEMENT PER CITY OF CARMEL STANDARDS.

CROSSING
XA. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XB. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XC. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XD. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XE. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE

WATER
W1. 6" FIRE PROTECTION WATERLINE
W2. 2" DOMESTIC WATERLINE
W3. 6" FIRE HYDRANT WATERLINE
W4. WET TAP
W5. WATER METER INSIDE BUILDING. REFER TO MEP PLAN
W6. WATER VALVE

GAS
G1. PROPOSED 6" GAS LINE TO CONNECT TO GAS MAIN AT 141 ST. REFER TO MEP PLAN TO CONNECTION TO BUILDING.
G2. GAS METER AND REGULATOR. REFER TO MEP PLANS FOR DETAILS

SANITARY
S1. PROPOSED 1500 GALLON GREASE TRAP. REFER TO MEP PLANS FOR CONNECTION TO BUILDING.
S2. ALL SEWER UNDER PAVEMENT WILL NEED TO BE FULL DEPTH GRANULAR.
S3. DROP MANHOLE(SEE DETAIL)
S4. PROPOSED 24" SAMPLE PORT(SEE DETAIL)

GENERAL NOTES

1. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
2. ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
3. ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
4. ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
5. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
7. ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
9. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
10. ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
11. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
12. THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

UTILITY LEGEND

- STORM SEWER LINE
- SS — SANITARY SEWER LINE
- G — GAS LINE
- E — ELECTRIC LINE
- T — TELEPHONE LINE
- RD — ROOF DRAIN
- W — WATER LINE
- VALVE
- WM — WATER METER PIT
- HYDRANT
- D — CLEANOUT (STORM & SANITARY)

EXISTING LEGEND

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C15

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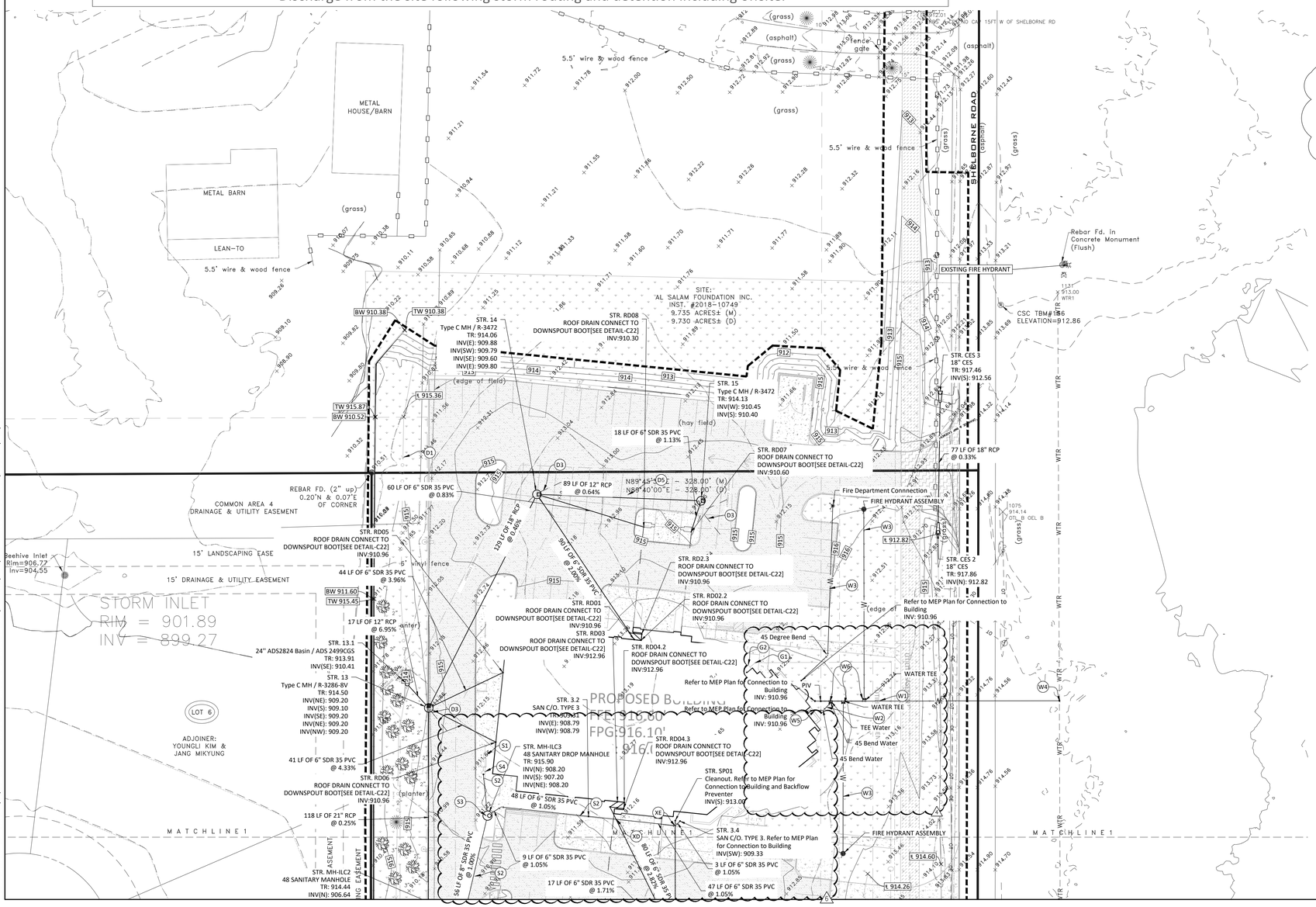

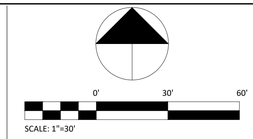

KEYNOTES

DRAINAGE
D1. UNDERDRAIN (SEE DETAIL)
D2. EXPOSED ROCK DITCH @ 0.5% (SEE DETAIL)
D3. PAVEMENT UNDERDRAIN(SEE DETAIL)
D4. POND TO BE NATURALIZED PER CITY OF CARMEL STANDARDS. REFER TO LANDSCAPE PLANS FOR DETAILS.
D5. DRAINAGE AND BMP EASEMENT PER CITY OF CARMEL STANDARDS.

CROSSING
XA. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XB. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XC. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XD. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE
XE. SEE UTILITY DETAILS FOR CROSSING UTILITY TABLE

WATER
W1. 6" FIRE PROTECTION WATERLINE
W2. 2" DOMESTIC WATERLINE
W3. 6" FIRE HYDRANT WATERLINE
W4. WET TAP
W5. WATER METER INSIDE BUILDING. REFER TO MEP PLAN
W6. WATER VALVE

GAS
G1. PROPOSED 6" GAS LINE TO CONNECT TO GAS MAIN AT 141 ST. REFER TO MEP PLAN TO CONNECTION TO BUILDING.
G2. GAS METER AND REGULATOR. REFER TO MEP PLANS FOR DETAILS

SANITARY
S1. PROPOSED 1500 GALLON GREASE TRAP. REFER TO MEP PLANS FOR CONNECTION TO BUILDING.
S2. ALL SEWER UNDER PAVEMENT WILL NEED TO BE FULL DEPTH GRANULAR.
S3. DROP MANHOLE(SEE DETAIL)
S4. PROPOSED 24" SAMPLE PORT(SEE DETAIL)

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A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

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TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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UTILITY PLAN CENTER

C16

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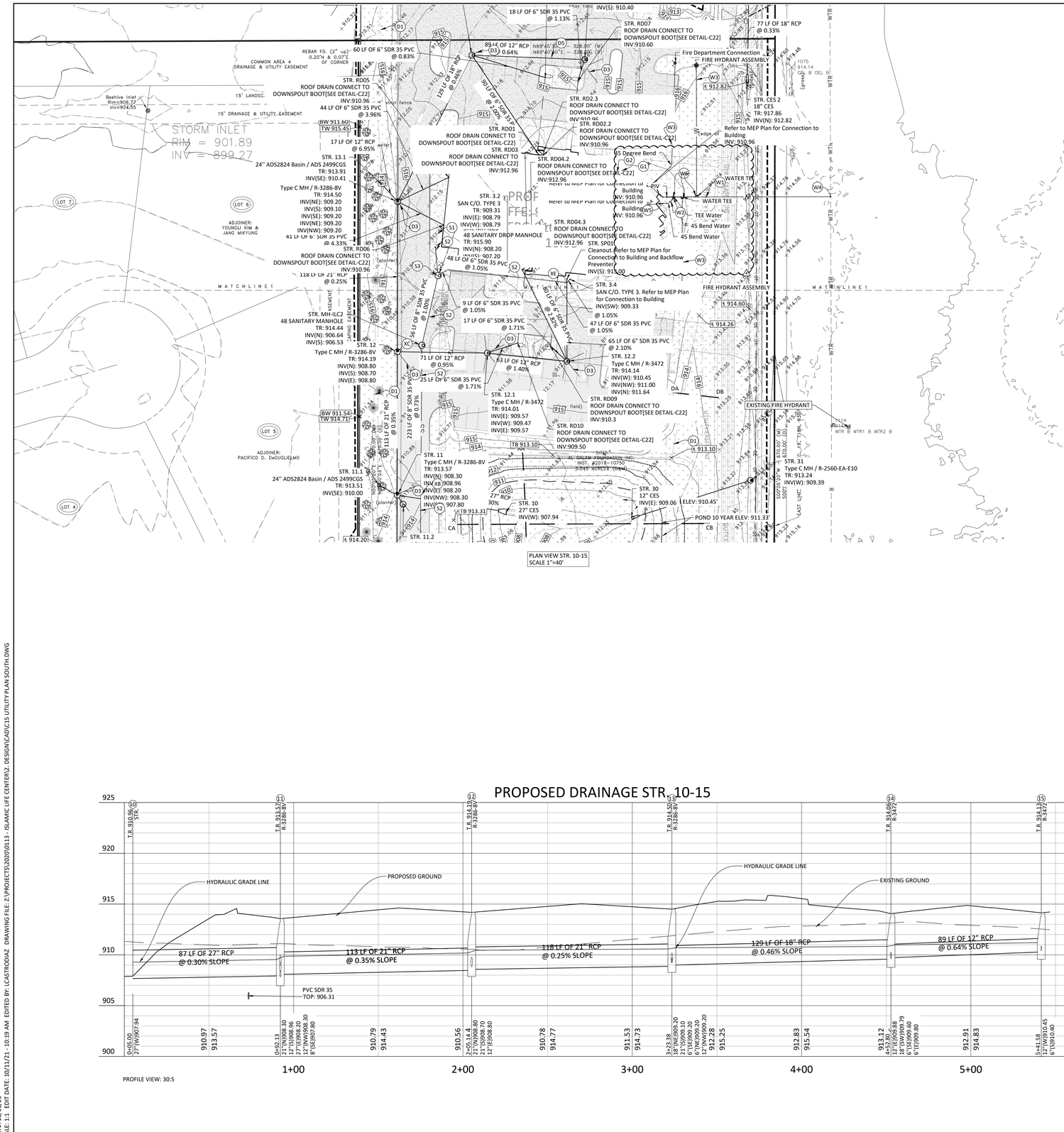

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UTILITY PROFILES

C17

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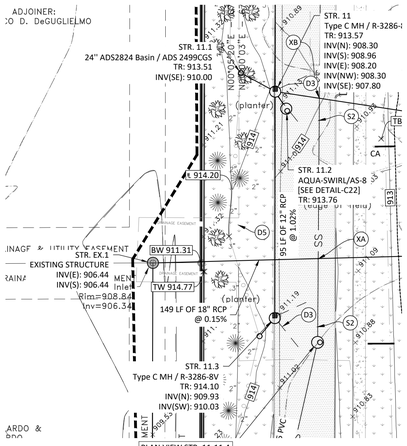
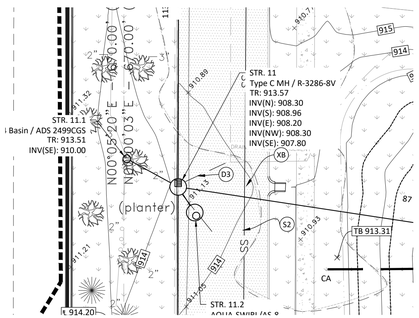
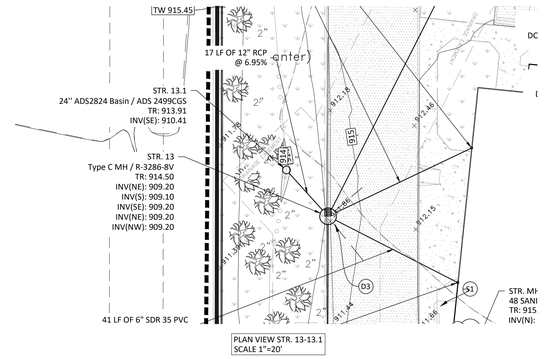
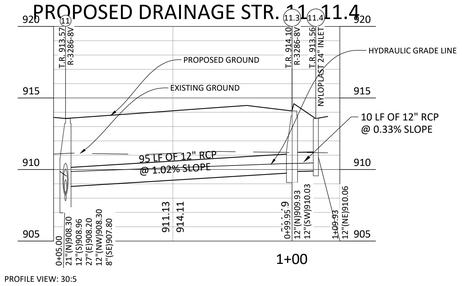


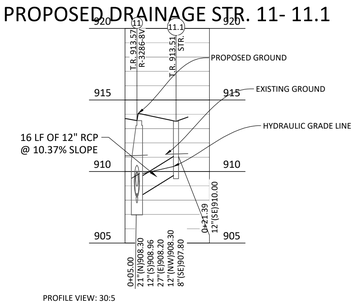




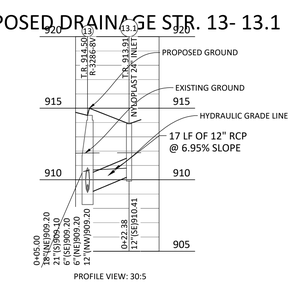
PROPOSED DRAINAGE STR. 11- 11.4

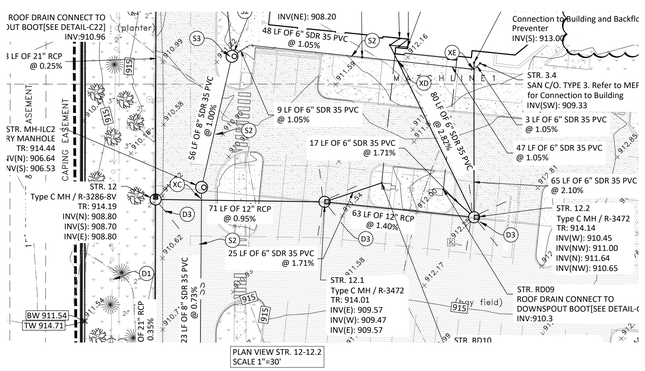


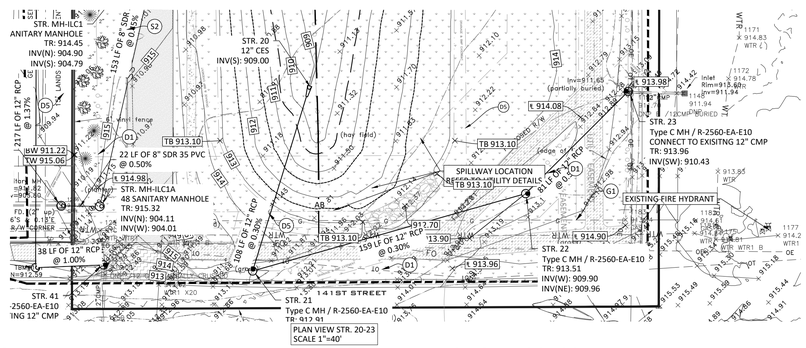
PROPOSED DRAINAGE STR. 11- 11.1



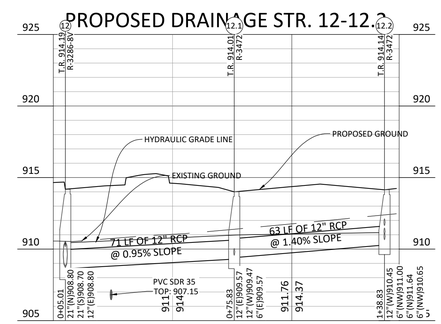
PROPOSED DRAINAGE STR. 13- 13.1



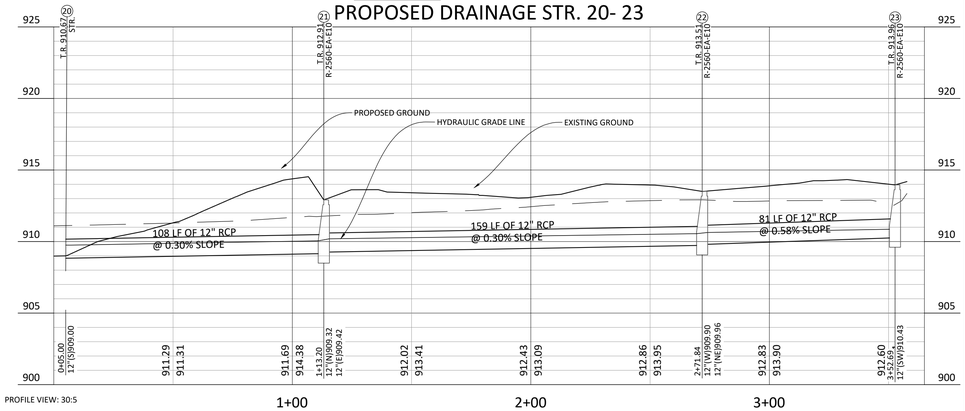


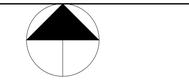


PROPOSED DRAINAGE STR. 12-12.2



PROPOSED DRAINAGE STR. 20- 23





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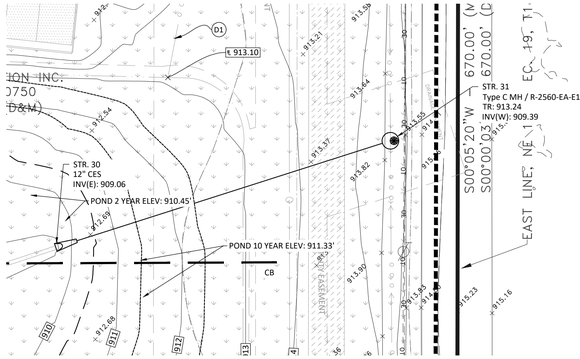
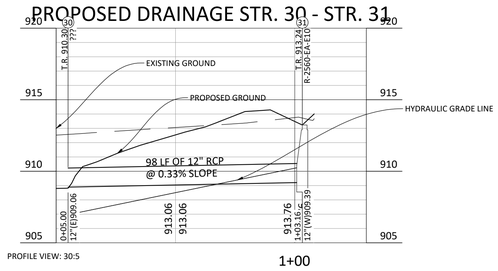
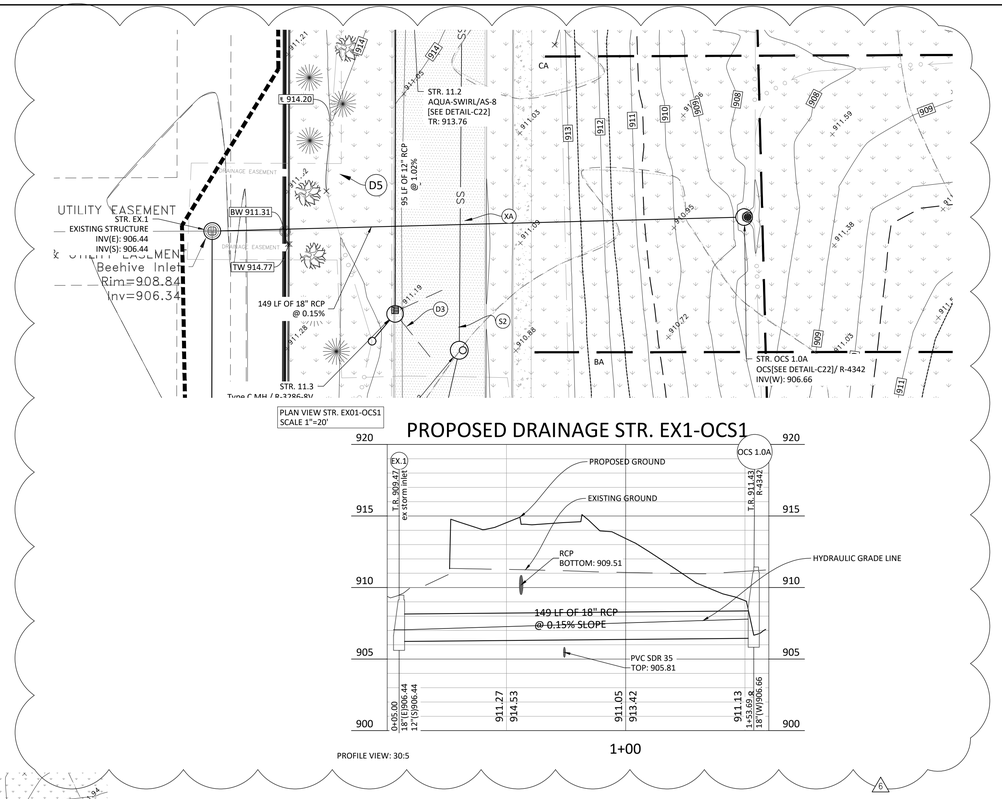


PLAN VIEW STR. 30-31
SCALE 1"=20'

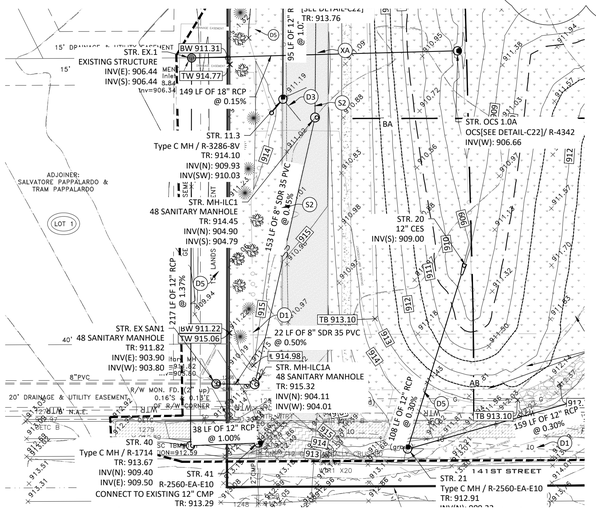
PROPOSED DRAINAGE STR. 30 - STR. 31





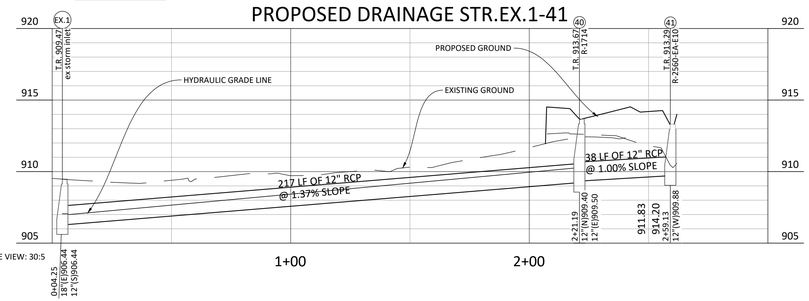
PLAN VIEW STR. EX01-OCS1
SCALE 1"=20'

PROPOSED DRAINAGE STR. EX1-OCS1



PLAN VIEW STR.EX.1-41
SCALE 1"=40'

PROPOSED DRAINAGE STR.EX.1-41



SCALE: 1"=30'

0' 30' 60'

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5. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
7. ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
9. STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
10. ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
11. IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
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EXISTING LEGEND

BENCHMARK DATA

LEE 4 RESET — ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 — ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 — ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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Al Salam Foundation
ISLAMIC LIFE CENTER
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
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TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021
TAC RESPONSE 6.0 10/07/2021

UTILITY PROFILES

C19

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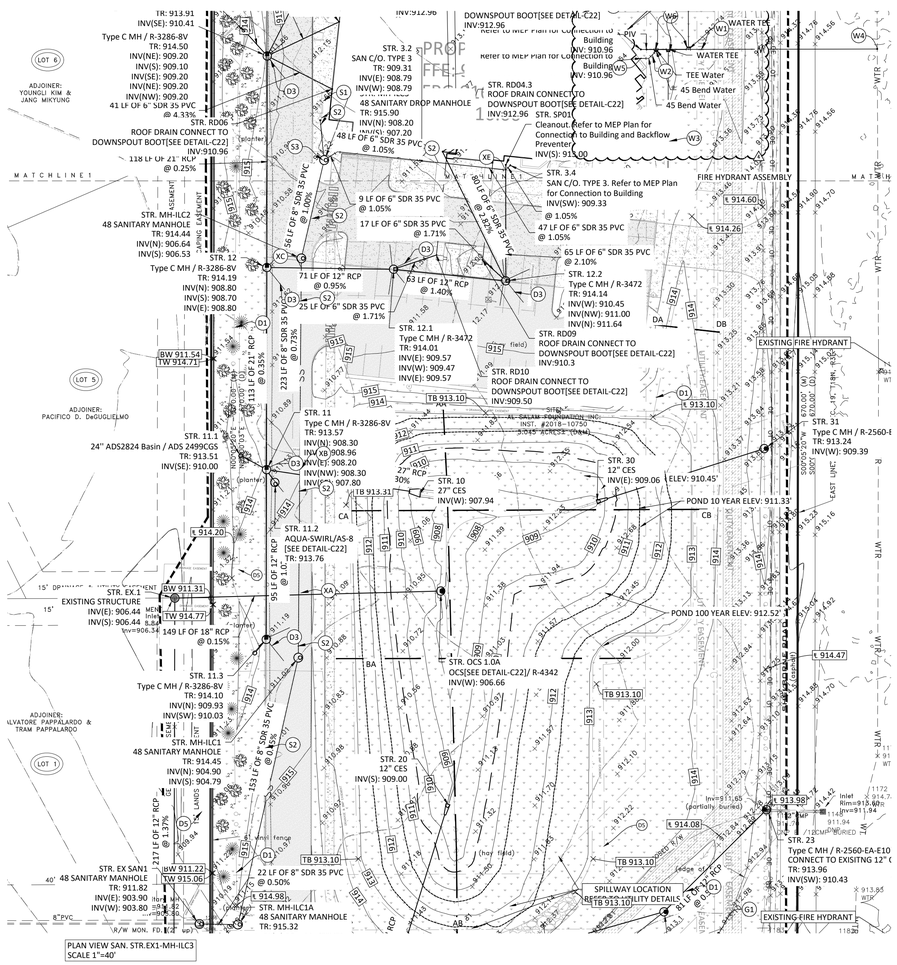

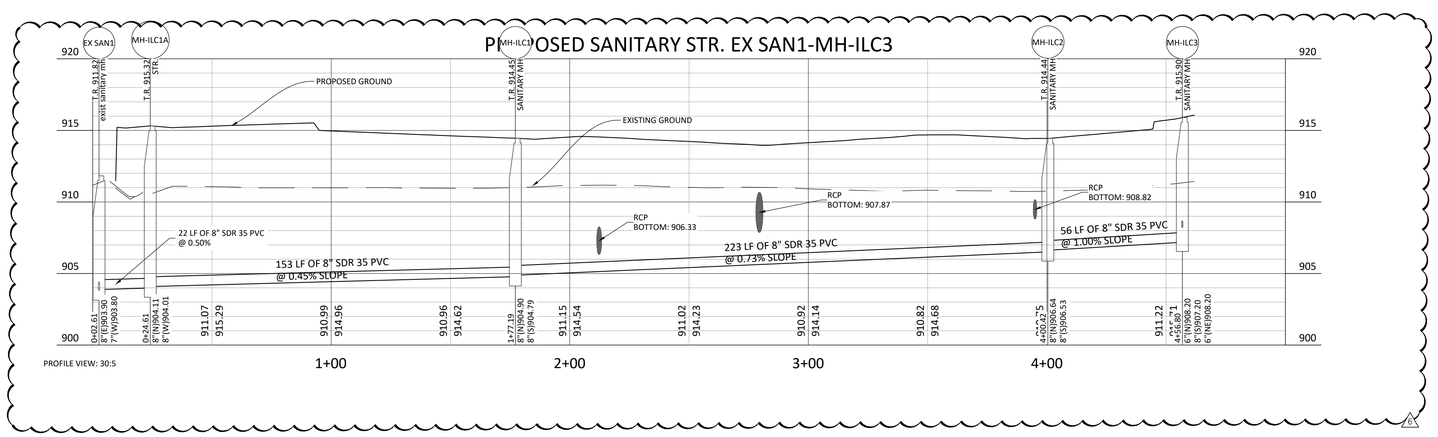

○ KEYNOTES

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- SS — SANITARY SEWER LINE
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- E — ELECTRIC LINE
- T — TELEPHONE LINE
- RD — ROOF DRAIN
- W — WATER LINE
- VALVE
- WM — WATER METER PIT
- HYDRANT
- CO — CLEANOUT (STORM & SANITARY)

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C20

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STORM SEWER PIPE AND STRUCTURE DATA TABLE

STR. NO.	STRUCTURE / CASTING TYPE	T.O.R.	INCOMING PIPE DATA (DIRECTION) / [FROM STR]	OUTGOING PIPE DATA (DIRECTION) / [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
10	27" CES	910.96	27" RCP 907.94 (W) [11]						
11	Type C MH / R-3286-8V	913.57	21" RCP 908.30 (N) [12] 12" RCP 908.96 (S) [11.3] 12" RCP 908.30 (NW) [11.1]	27" RCP 908.20 (E) [10] 8" HDPE 907.80 (SE) [11.2]	87' 9'	27" 8"	0.30% 0.00%	10 11.2	
11.1	24" ADS2824 Basin / ADS 2499CGS	913.51		12" RCP 910.00 (SE) [11]	16'	12"	10.37%	11	
11.2	AQUA-SWIRL/AS-8 [SEE DETAIL-C22]	913.76	8" HDPE 907.80 (NW) [11]						
11.3	Type C MH / R-3286-8V	914.10	12" RCP 910.03 (SW) [11.4]	12" RCP 909.93 (N) [11]	95'	12"	1.02%	11	
11.4	24" ADS2824 Basin / ADS 2499CGS	913.56		12" RCP 910.06 (NE) [11.3]	10'	12"	0.33%	11.3	
12	Type C MH / R-3286-8V	914.19	21" RCP 908.80 (N) [13] 12" RCP 908.80 (E) [12.1]	21" RCP 908.70 (S) [11]	113'	21"	0.35%	11	
12.1	Type C MH / R-3472	914.01	12" RCP 909.57 (E) [12.2] 6" PVC SDR 35 909.57 (E) [RD10]	12" RCP 909.47 (W) [12]	71'	12"	0.95%	12	
12.2	Type C MH / R-3472	914.14	6" PVC SDR 35 911.00 (NW) [RD09] 6" PVC SDR 35 911.64 (N) [SP01] 6" PVC SDR 35 910.65 (NW) [RD04]	12" RCP 910.45 (W) [12.1]	63'	12"	1.40%	12.1	
13	Type C MH / R-3286-8V	914.50	18" RCP 909.20 (NE) [14] 6" PVC SDR 35 909.20 (SE) [RD06] 6" PVC SDR 35 909.20 (NE) [RD05] 12" RCP 909.20 (NW) [13.1]	21" RCP 909.10 (S) [12]	118'	21"	0.25%	12	
13.1	24" ADS2824 Basin / ADS 2499CGS	913.91		12" RCP 910.41 (SE) [13]	17'	12"	6.95%	13	
14	Type C MH / R-3472	914.06	12" RCP 909.88 (E) [15] 6" PVC SDR 35 909.60 (SE) [RD02] 6" PVC SDR 35 909.80 (E) [RD08]	18" RCP 909.79 (SW) [13]	129'	18"	0.46%	13	
15	Type C MH / R-3472	914.13	6" PVC SDR 35 910.40 (S) [RD07]	12" RCP 910.45 (W) [14]	89'	12"	0.64%	14	
20	12" CES	910.67	12" RCP 909.00 (S) [21]						
21	Type C MH / R-2560-EA-E10	912.91	12" RCP 909.42 (E) [22]	12" RCP 909.32 (N) [20]	108'	12"	0.30%	20	
22	Type C MH / R-2560-EA-E10	913.51	12" RCP 909.96 (NE) [23]	12" RCP 909.90 (W) [21]	159'	12"	0.30%	21	
23	Type C MH / R-2560-EA-E10 CONNECT TO EXISITNG 12" CMP	913.96		12" RCP 910.43 (SW) [22]	81'	12"	0.58%	22	
30	12" CES	910.30	12" RCP 909.06 (E) [31]						
31	Type C MH / R-2560-EA-E10	913.24		12" RCP 909.39 (W) [30]	98'	12"	0.33%	30	
40	Type C MH / R-1714	913.67	12" RCP 909.50 (E) [41]	12" RCP 909.40 (N) [EX.1]	217'	12"	1.37%	EX.1	

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41	Type C MH / R-2560-EA-E10 CONNECT TO EXISTING 12" CMP	913.29		12" RCP 909.88 (W) [40]	38'	12"	1.00%	40	
CES 2	18" CES	917.86		18" RCP 912.82 (N) [CES 3]	77'	18"	0.33%	CES 3	
CES 3	18" CES	917.46	18" RCP 912.56 (S) [CES 2]						
EX.1	EXISTING STRUCTURE	909.47	18" RCP 906.44 (E) [OCS 1.0A] 12" RCP 906.44 (S) [40]						
OCS 1.0A	OCS[SEE DETAIL-C22]/ R-4342	911.43		18" RCP 906.66 (W) [EX.1]	149'	18"	0.15%	EX.1	
RD 02.1	ROOF DRAIN	N/A	6" PVC SDR 35 911.50 (W) [RD02]	6" PVC SDR 35 911.50 (E) [RD2.3] 6" PVC SDR 35 911.50 (SE) [RD02.2]	4' 5'	6" 6"	-2.30% -1.83%	RD2.3 RD02.2	
RD01	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.96	N/A	6" PVC SDR 35 911.60 (NW) [RD02]						
RD02	ROOF DRAIN	N/A		6" PVC SDR 35 911.40 (NW) [14] 6" PVC SDR 35 911.40 (E) [RD 02.1] 6" PVC SDR 35 911.40 (SE) [RD01]	90' 2' 4'	6" 6" 6"	2.00% -4.78% -4.66%	14 RD 02.1 RD01	
RD02.2	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.96	N/A	6" PVC SDR 35 911.60 (NW) [RD 02.1]						
RD2.3	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.96	N/A	6" PVC SDR 35 911.60 (W) [RD 02.1]						
RD03	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:912.96	N/A	6" PVC SDR 35 912.96 (SW) [RD04]						
RD04	ROOF DRAIN	N/A		6" PVC SDR 35 912.92 (SE) [12.2] 6" PVC SDR 35 912.92 (E) [RD04.1] 6" PVC SDR 35 912.92 (NE) [RD03]	80' 4' 5'	6" 6" 6"	2.82% -0.50% -0.90%	12.2 RD04.1 RD03	
RD04.1	ROOF DRAIN	N/A	6" PVC SDR 35 912.94 (W) [RD04]	6" PVC SDR 35 912.94 (NE) [RD04.2] 6" PVC SDR 35 912.94 (E) [RD04.3]	5' 4'	6" 6"	-0.52% -0.69%	RD04.2 RD04.3	
RD04.2	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:912.96	N/A	6" PVC SDR 35 912.96 (SW) [RD04.1]						
RD04.3	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:912.96	N/A	6" PVC SDR 35 912.96 (W) [RD04.1]						
RD05	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.96	N/A		6" PVC SDR 35 910.96 (SW) [13]	44'	6"	3.96%	13	
RD06	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.96	N/A		6" PVC SDR 35 910.96 (NW) [13]	41'	6"	4.33%	13	
RD07	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.60	N/A		6" PVC SDR 35 910.60 (N) [15]	18'	6"	1.13%	15	
RD08	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.30	N/A		6" PVC SDR 35 910.30 (W) [14]	60'	6"	0.83%	14	
RD09	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:910.3	N/A		6" PVC SDR 35 911.30 (SE) [12.2]	17'	6"	1.71%	12.2	

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RD10	ROOF DRAIN CONNECT TO DOWNSPOUT BOOT[SEE DETAIL-C22] INV:909.50	N/A		6" PVC SDR 35 910.00 (W) [12.1]	25'	6"	1.71%	12.1	
SP01	Cleanout. Refer to MEP Plan for Connection to Building and Backflow Preventer	N/A		6" PVC SDR 35 913.00 (S) [12.2]	65'	6"	2.10%	12.2	

SANITARY SEWER PIPE AND STRUCTURE DATA TABLE

STR. NO.	STRUCTURE / CASTING TYPE	T.O.R.	INCOMING PIPE DATA (DIRECTION) / [FROM STR]	OUTGOING PIPE DATA (DIRECTION) / [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
3.1	45 degree Bend		6" PVC SDR 35 908.29 (E) [3.2]	6" PVC SDR 35 908.29 (SW) [MH-ILC3]	9'	6"	1.05%	MH-ILC3	
3.2	SAN C/O. TYPE 3	916.22	6" PVC SDR 35 908.79 (E) [3.3]	6" PVC SDR 35 908.79 (W) [3.1]	48'	6"	1.05%	3.1	
3.3	45 Degree Bend		6" PVC SDR 35 909.29 (NE) [3.4]	6" PVC SDR 35 909.29 (W) [3.2]	47'	6"	1.05%	3.2	
3.4	SAN C/O. TYPE 3. Refer to MEP Plan for Connection to Building	916.47		6" PVC SDR 35 909.33 (SW) [3.3]	3'	6"	1.05%	3.3	
4.1	Connect to 24" Grease Trap Sample Port	916.12		6" PVC SDR 35 910.00 (S) [MH-ILC3]	22'	6"	8.05%	MH-ILC3	
EX SAN1	48 SANITARY MANHOLE	911.82	8" PVC SDR 35 903.90 (E) [MH-ILC1A]	8" PVC SDR 26 903.80 (W)	176'	8"	0.43%		
MH-ILC1	48 SANITARY MANHOLE	914.45	8" PVC SDR 35 904.90 (N) [MH-ILC2]	8" PVC SDR 35 904.79 (S) [MH-ILC1A]	153'	8"	0.45%	MH-ILC1A	
MH-ILC1A	48 SANITARY MANHOLE	915.32	8" PVC SDR 35 904.11 (N) [MH-ILC1]	8" PVC SDR 35 904.01 (W) [EX SAN1]	22'	8"	0.50%	EX SAN1	
MH-ILC2	48 SANITARY MANHOLE	914.44	8" PVC SDR 35 906.64 (N) [MH-ILC3]	8" PVC SDR 35 906.53 (S) [MH-ILC1]	223'	8"	0.73%	MH-ILC1	
MH-ILC3	48 SANITARY DROP MANHOLE	915.90	6" PVC SDR 35 908.20 (N) [4.1] 6" PVC SDR 35 908.20 (NE) [3.1]	8" PVC SDR 35 907.20 (S) [MH-ILC2]	56'	8"	1.00%	MH-ILC2	

0' 30' 60'

SCALE: 1"=30'

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12. THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.

EXISTING LEGEND

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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UTILITY PROFILES

C21

PRINT DATE: 10/11/21
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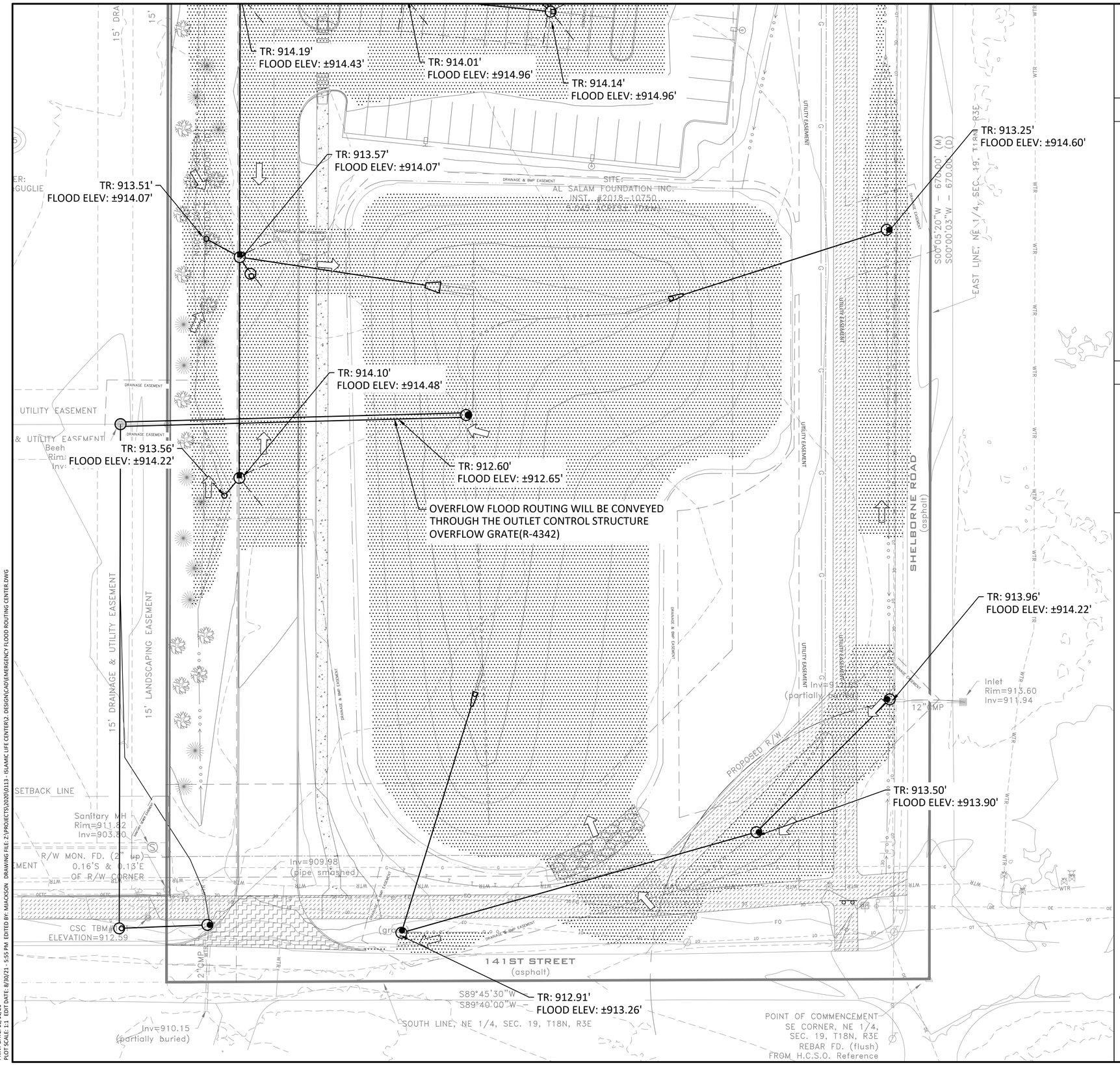

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SCALE: 1"=20'

KEYNOTES

EMERGENCY FLOOD ROUTING LEGEND

OVERFLOW ROUTE DIRECTION

EMERGENCY FLOOD AREA

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

GENERAL NOTES

1. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
2. ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
3. ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
4. ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
5. ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
6. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
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8. WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
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EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
12" 36"	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
UE	UNDG. ELECTRIC LINE
OET	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

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

PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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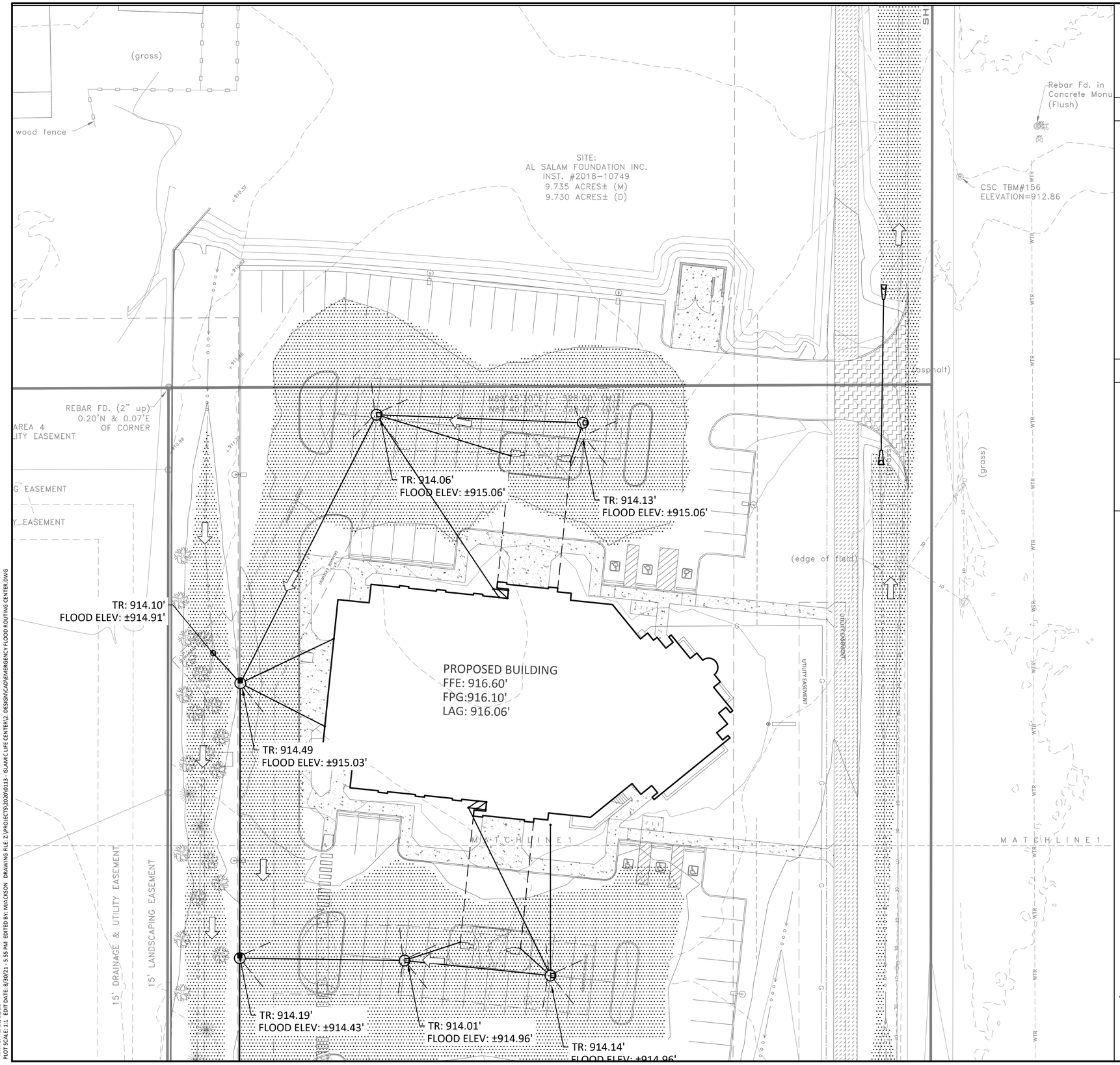
EMERGENCY FLOOD ROUTING SOUTH

C22



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

○ KEYNOTES

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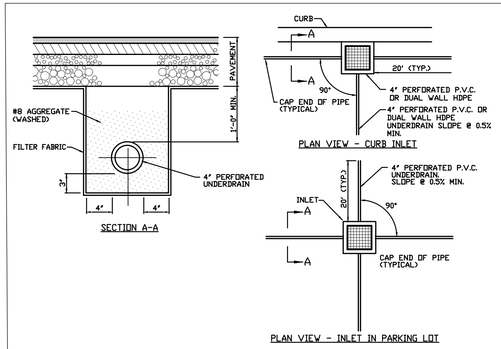
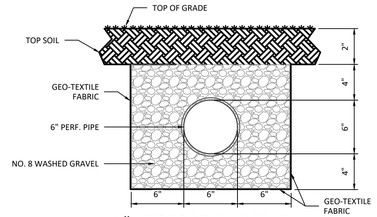
EMERGENCY FLOOD ROUTING CENTER

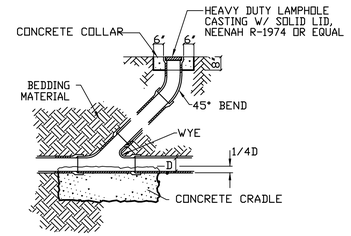
C23



PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE

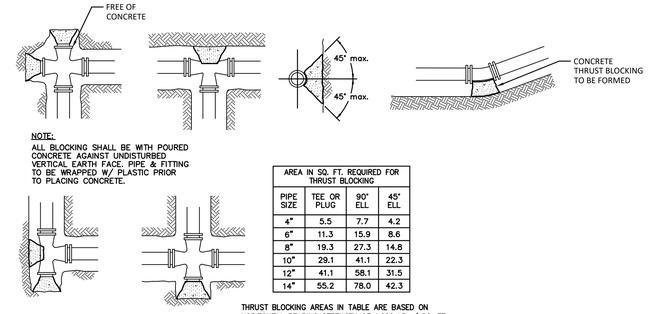


6" UNDERDRAIN DETAIL
NOT TO SCALE



NOTE: BEDDING MATERIAL TO BE IN ACCORDANCE WITH PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL

STORM SEWER & SANITARY SEWER CLEANOUT
NOT TO SCALE

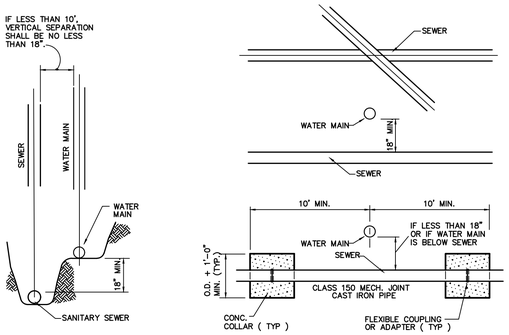


NOTE:
ALL BLOCKING SHALL BE WITH POURED CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE. PIPE & FITTING TO BE WRAPPED W/ PLASTIC PRIOR TO PLACING CONCRETE.

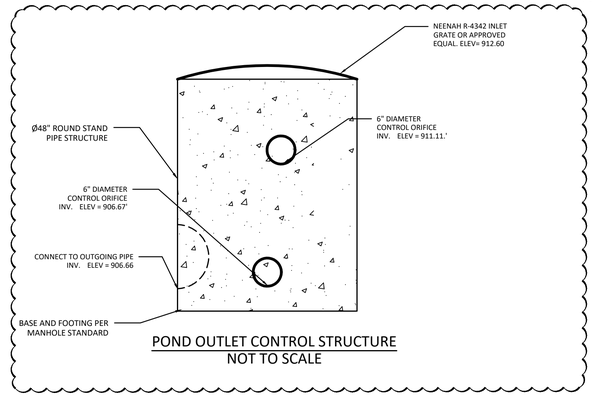
AREA IN SQ. FT. REQUIRED FOR THRUST BLOCKING			
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL
4"	5.5	7.7	4.2
6"	11.3	15.9	8.6
8"	19.3	27.3	14.8
10"	29.1	41.1	22.3
12"	41.1	58.1	31.5
14"	55.2	78.0	42.3

THRUST BLOCKING AREAS IN TABLE ARE BASED ON HORIZONTAL BEARING STRENGTH OF 1,000 LB. / SQ. FT.

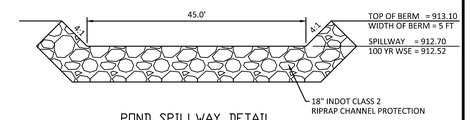
THRUST BLOCK INSTALLATION
NOT TO SCALE



MIN. CROSSOVER & SEPARATION REQUIREMENTS FOR WATER MAINS AND SEWERS
NOT TO SCALE



POND OUTLET CONTROL STRUCTURE
NOT TO SCALE



POND SPILLWAY DETAIL
NOT TO SCALE

UTILITY CROSSING TABLE

XA: TOP 18" STORM INV: 906.38*
6" SANITARY: 905.19*

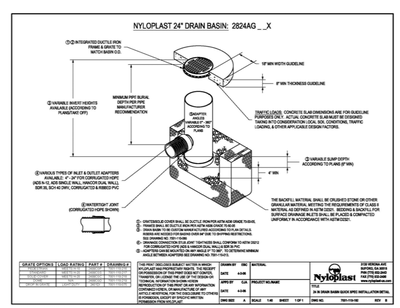
XB: TOP 27" STORM INV: 907.87*
6" SANITARY: 906.12*

XC: TOP 12" STORM INV: 908.82*
6" SANITARY: 906.50 *

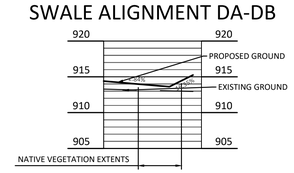
XD: TOP 6" ROOF DRAIN INV: 912.71*
6" SANITARY: 908.95 *

XE: TOP 6" ROOF DRAIN INV: 912.94
6" SANITARY: 909.29*

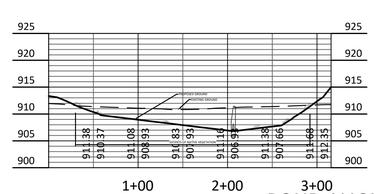
*MAINTAIN 18" VERTICAL SEPARATION INSTALL 18" CONC. CRADLE WHEN SEPARATION IS LESS THAN 18"



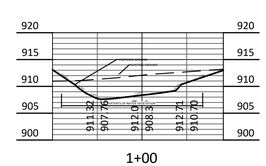
SWALE ALIGNMENT DA-DB



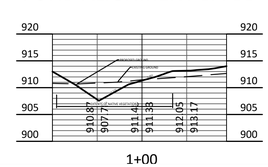
POND ALIGNMENT AA-AB

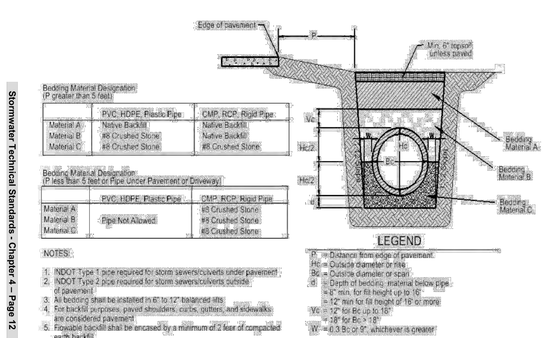


POND ALIGNMENT CA-CB



POND ALIGNMENT BA-BB



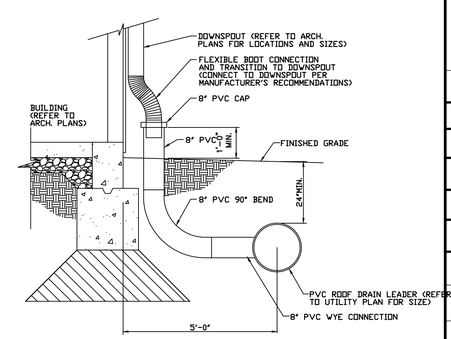


Stormwater Technical Standards - Chapter 4 – Page 12

FIGURE 4-2
Bedding and Backfill Standards for Storm Sewers

NOTE: THE INSIDE OF ALL STORM SEWER STRUCTURES SHALL HAVE FINISH GROUTING WHICH ENTAILS BETWEEN BARREL TO BARREL SECTIONS, BETWEEN RISER RINGS, AT CASTINGS AND AROUND ALL PIPES.

PIPE BEDDING
NOT TO SCALE



NOTE: KEEP ALL PIPES OUTSIDE FOUNDATION BEARING AREAS (INDICATED BY CROSSHATCH ABOVE)

DOWNSPOUT BOOT CONNECTION DETAIL
NOT TO SCALE

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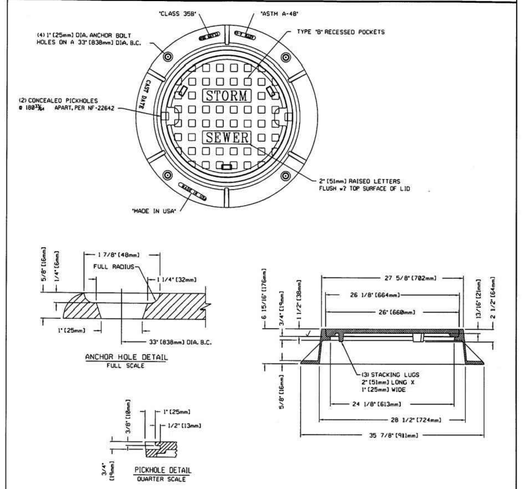
UTILITY DETAILS

C24

PRINT DATE: 10/11/21
PLOT SCALE: 1:1 EDIT DATE: 10/11/21 - 10:30 AM EDITED BY: LCASTRODIAZ DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\UTILITY DETAILS.DWG

OFFICE OF THE HAMILTON COUNTY SURVEYOR



NEENAH	1642 or 1772
EAST JORDAN	1045 or 1022

* Or approved by Hamilton County Surveyor's Office

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH AND (METRIC).
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350
FINISH: NOT PAINTED
WEIGHT: FRAME - 158#, LID - 124#

(DRAWING NOT TO SCALE)

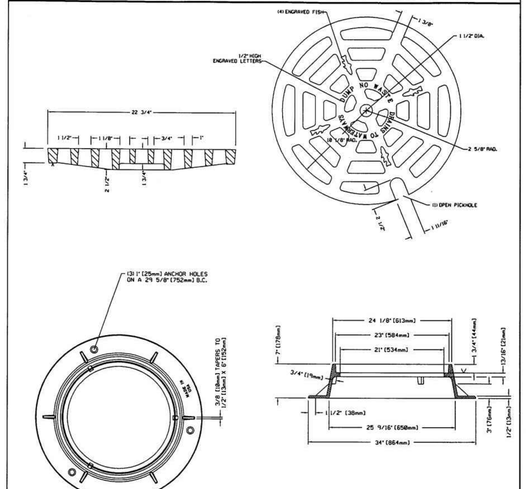
HAMILTON COUNTY SURVEYOR'S OFFICE

MANHOLE SOLID LID CASTING — REVISED: 9/25/2006

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 25 SEP 2006

STANDARD PLAN CT-1

OFFICE OF THE HAMILTON COUNTY SURVEYOR



NEENAH	2015
EAST JORDAN	1050 M1

* Or approved by Hamilton County Surveyor's Office

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350
FINISH: NO PAINT
WEIGHT: 118#
WAS 2015 T17

(DRAWING NOT TO SCALE)

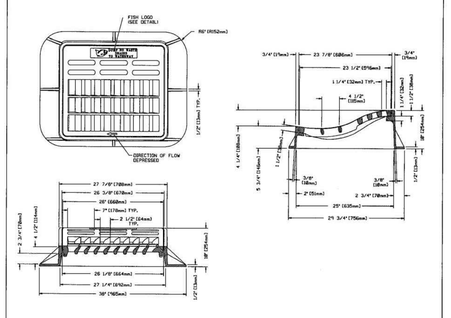
HAMILTON COUNTY SURVEYOR'S OFFICE

MANHOLE SLOTTED GRATE AND FRAME CASTING — REVISED: 9/25/2006

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 25 SEP 2006

STANDARD PLAN CT-2

OFFICE OF THE HAMILTON COUNTY SURVEYOR



NEENAH	3501-TL or TR
EAST JORDAN	7495-M2 or M1

* Or approved by Hamilton County Surveyor's Office

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND (METRIC)
MEETS AASHTO M-306 PROOF LOAD REQUIREMENTS.
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350
FINISH: NO PAINT
WEIGHT: FRAME: 211#; GRATE 156#

(DRAWING NOT TO SCALE)

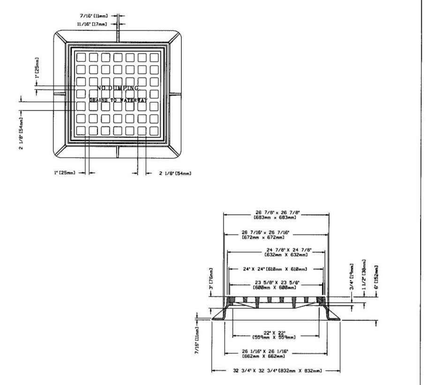
HAMILTON COUNTY SURVEYOR'S OFFICE

CURB INLET CASTING — REVISED: 11/16/2004

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 14 FEB 05

STANDARD PLAN CT-8

OFFICE OF THE HAMILTON COUNTY SURVEYOR



NEENAH	3405
EAST JORDAN	5250

* Or approved by Hamilton County Surveyor's Office

NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND (METRIC)
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 350
FINISH: NO PAINT
WEIGHT: FRAME 138#; GRATE 138#

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

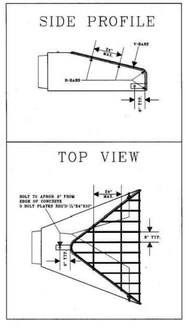
PARKING LOT INLET CASTING — REVISED: 11/16/2004

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 14 FEB 05

STANDARD PLAN CT-6

OFFICE OF THE HAMILTON COUNTY SURVEYOR

DEBRIS GUARD



	Apron Size Inches	V-bar Size Inches	No. of H-bars Req'd	H-bar Size Inches	Bolt Dia. Inches	"A" Dim. Inches
Arch pipe aprons	18	1/2	3	5/8	1/2	5
	24	5/8	4	3/4	1/2	7
	30	5/8	4	3/4	1/2	7 1/2
	36	3/4	4	1	1/2	10 1/2
	42	3/4	4	1	3/4	11
	48	3/4	4	1½pipe	3/4	12
	54	3/4	4	1½pipe	3/4	12
	60	3/4	5	1½pipe	3/4	14
	72	3/4	5	1½pipe	3/4	14
	84	3/4	6	1½pipe	3/4	15
Round pipe aprons	12	1/2	3	5/8	1/2	4
	15	1/2	3	5/8	1/2	4 1/2
	18	1/2	4	5/8	1/2	4 1/2
	21	1/2	4	5/8	1/2	5
	24	5/8	4	3/4	1/2	5
	27	5/8	4	3/4	1/2	5 1/2
	30	5/8	4	3/4	1/2	5 1/2
	36	3/4	4	1	3/4	8
	42	3/4	4	1	3/4	8
	48	3/4	5	1	3/4	8
	54	3/4	5	1½pipe	3/4	8
	60	3/4	5	1½pipe	3/4	8
	66	3/4	6	1½pipe	3/4	8
	72	3/4	6	1½pipe	3/4	9
	84	3/4	7	1½pipe	3/4	10
	90	3/4	7	1½pipe	3/4	14

NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES, & PIPIE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVINIZED
4. NO REBAR THROUGH PIPES WILL BE ALLOWED
5. DEBRIS GUARD SHALL BE REMOVABLE

(DRAWING NOT TO SCALE)

HAMILTON COUNTY SURVEYOR'S OFFICE

REVISED: 1 JAN 2000

APPROVED: _____ KENTON C. WARD, HAMILTON COUNTY SURVEYOR — DATE 4/4/00

STANDARD PLAN D-12

PROJECT NO.: 2020.0113 | DRAWN BY: MWJ | CHECKED BY: TMJ

TIMOTHY M. JANSEN REGISTERED No. PE 10708270 STATE OF INDIANA PROFESSIONAL ENGINEER
03/17/2021

VERIDUS ENGINEERING
6380 N. Shadeland Avenue, Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647 | www.theveridusgroup.com

Al Salam Foundation

ISLAMIC LIFE CENTER

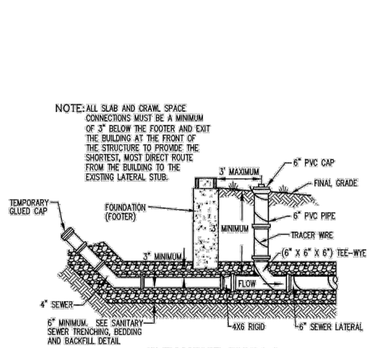
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021
TAC RESPONSE 6.0 10/07/2021

UTILITY DETAILS

C25

PRINT DATE: 10/11/21
PLOT SCALE: 1:1 EDIT DATE: 10/11/21 - 10:30 AM EDITED BY: LCASTRODIAZ DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\UTILITY DETAILS.DWG



CLEANOUT TYPE 1

(ONLY LANDSCAPED SURFACES WITHIN THREE FEET OF BUILDING)

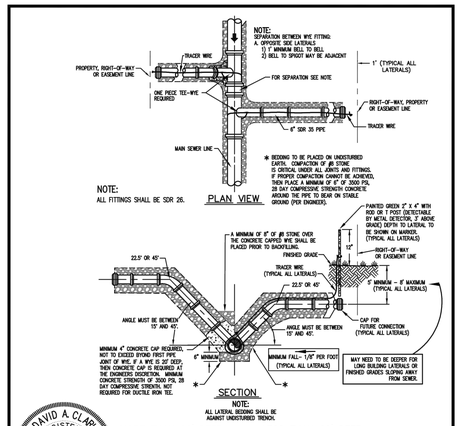
DAVID A. CLARK REGISTERED No. 19300219 STATE OF INDIANA PROFESSIONAL ENGINEER

Schneider

TRICO REGIONAL SEWER UTILITY

TYPE 1 CLEANOUT DETAIL

TRICO



MORE THAN 20' DEEP LESS THAN 20' DEEP

NOTE: DEPTH OF SERVICE LATERAL SHALL BE MEASURED FROM FINISHED GRADE TO THE TOP OF MAIN SEWER LINE.

PIPE REQUIREMENTS PER DEPTH ARE AS FOLLOWS:
7'-0" OR LESS = SDR-26 7'-1" – 12'-0" = SDR-35
20' OR GREATER = SDR-23.5

DAVID A. CLARK REGISTERED No. 19300219 STATE OF INDIANA PROFESSIONAL ENGINEER

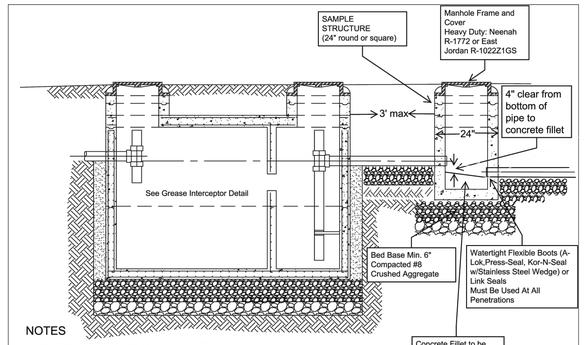
SERVICE LATERAL DETAIL

Schneider

CLAY TOWNSHIP REGIONAL WASTE DISTRICT
SERVICE LATERAL DETAIL
NORMAL AND DEEP CONNECTION

CTRWD

Date 12/06/06 File T:\6X\6366\001\DWGS\DETAILS\IN-DTLS.DWG



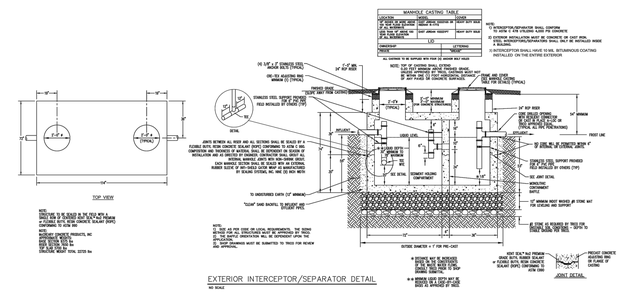
NOTES

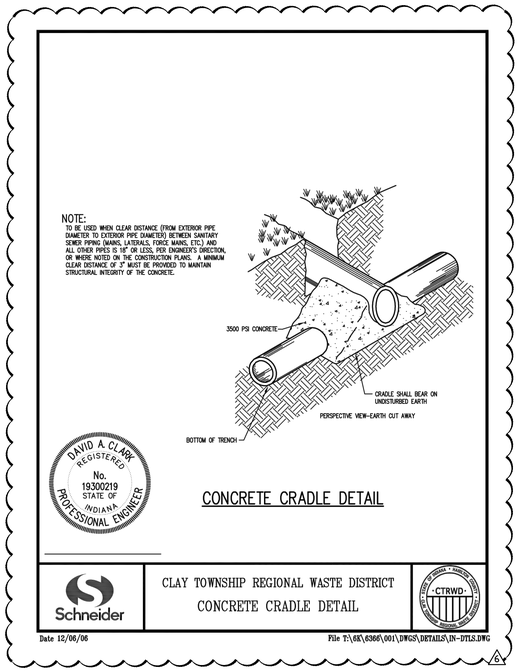
-Grease Trap and Sample Structure Are Property Of Owner And Will Not Be Maintained By The Utility

-Minimum 10 Mil Bituminous Coating shall be applied to Entire Exterior of both Interceptor and Sample Structures

-Sample Structure along with Interceptor shall be vacuum tested

TriCo Standard Detail	Title: 24" SAMPLE STRUCTURE
Date: May 26, 2020 Scale: Not To Scale	





DAVID A. CLARK REGISTERED No. 19300219 STATE OF INDIANA PROFESSIONAL ENGINEER

CONCRETE CRADLE DETAIL

Schneider

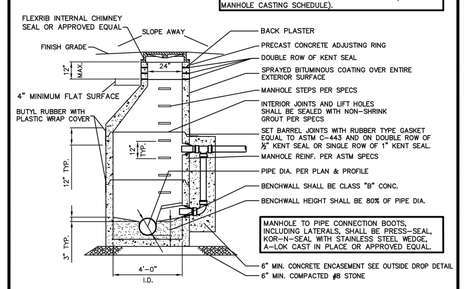
CLAY TOWNSHIP REGIONAL WASTE DISTRICT
CONCRETE CRADLE DETAIL

CTRWD

Date 12/06/06 File T:\6X\6366\001\DWGS\DETAILS\IN-DTLS.DWG

MANHOLE CASTING SCHEDULE		
MANUFACTURER	SELF SEALING	WATERTIGHT
NEENAH	R-1772	R-1772
EAST JORDAN	102221GS	102221PT

CASTING SHALL BE EITHER SELF-SEALING OR WATERTIGHT. (SEE PLAN & PROFILE SHEETS FOR CASTING TYPE). LIDS SHALL BE STAMPED "SANITARY SEWER" AND HAVE CLOSED PICKHOLES. FRAME SHALL BE SET ON DOUBLE ROW OF 1/2" KENT SEAL, OR SINGLE ROW OF 1" KENT SEAL (SEE MANHOLE CASTING SCHEDULE).



DAVID A. CLARK REGISTERED No. 19300219 STATE OF INDIANA PROFESSIONAL ENGINEER

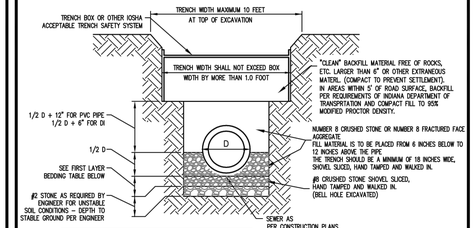
DROP MANHOLE DETAIL

Schneider

CLAY TOWNSHIP REGIONAL WASTE DISTRICT
DROP MANHOLE DETAIL

CTRWD

Date 12/06/06 File T:\6X\6366\001\DWGS\DETAILS\IN-DTLS.DWG



FIRST LAYER BEDDING TABLE		
PIPE SIZE	6" TO 15"	18" & OVER
BEDDING BELOW THE PIPE BARREL AND BELL	MINIMUM = 6"	MINIMUM = 10"

PIPE SIZE	A	B
UP TO 18"	3'-0"	2'-6"
18" AND GREATER	D + 24"	D + 18"

DAVID A. CLARK REGISTERED No. 19300219 STATE OF INDIANA PROFESSIONAL ENGINEER

SANITARY SEWER TRENCHING, BEDDING AND BACKFILL DETAIL

Schneider

CLAY TOWNSHIP REGIONAL WASTE DISTRICT
SANITARY SEWER BEDDING AND BACKFILL DETAIL

CTRWD

Date 12/06/06 File T:\6X\6366\001\DWGS\DETAILS\IN-DTLS.DWG

PROJECT NO.: 2020.0113 | DRAWN BY: MWJ | CHECKED BY: TMJ

PRINT DATE: 10/11/21
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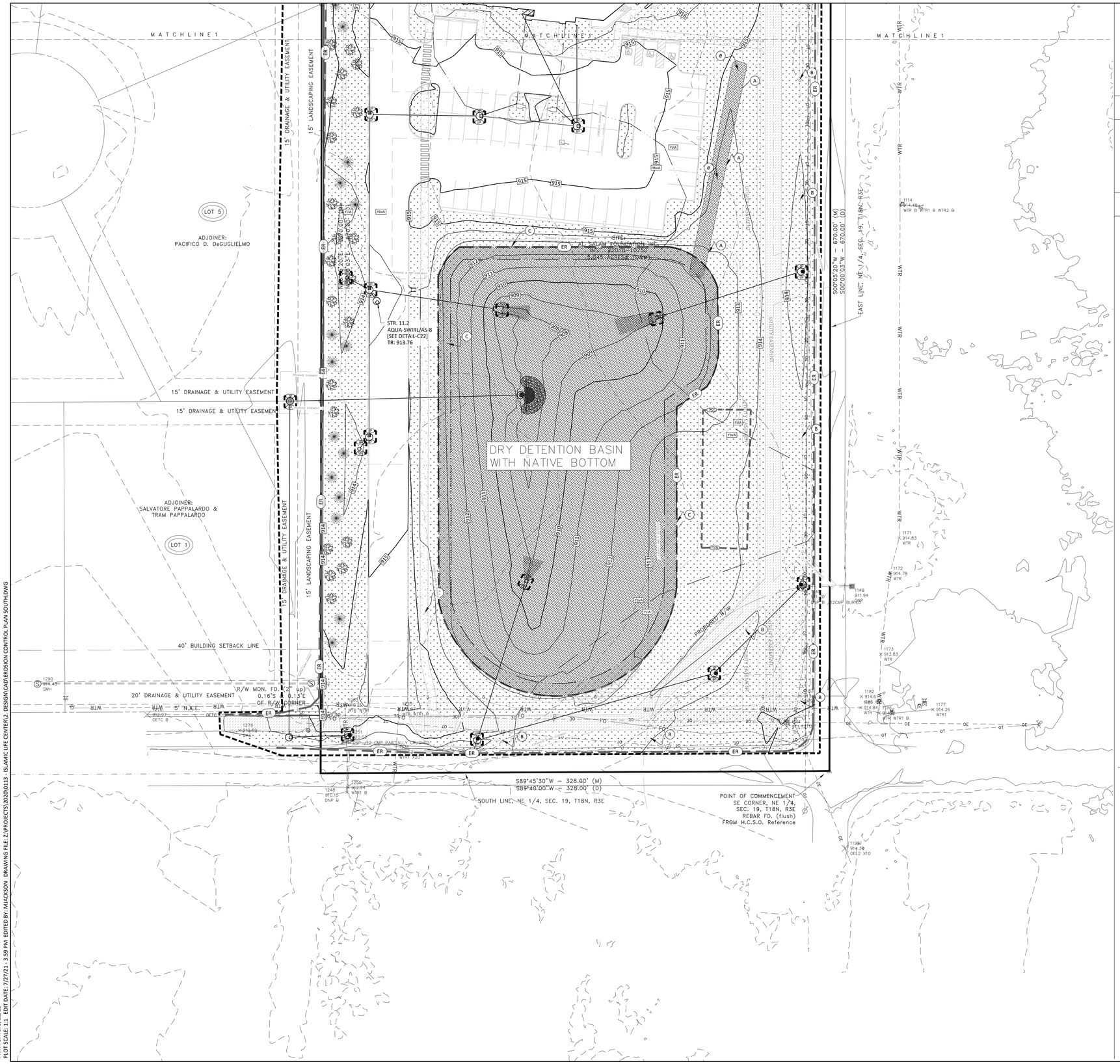
TAC RESPONSE 6.0 10/07/2021

UTILITY DETAILS

C26



0' 30' 40'

SCALE: 1"=30'

KEY NOTES

A. VEGETATED SWALE PROTECTION SIGNAGE

B. VEGETATED SWALE

C. POND BANKS

EROSION CONTROL LEGEND

- 668 — EXISTING CONTOUR
- 668 — PROPOSED CONTOUR
- ER — EROSION ROLL
- CONSTRUCTION LIMITS
- CF — CONSTRUCTION FENCE
- DRAINAGE & BMP EASEMENT
- IP / IP — OUTLET PROTECTION (10' LENGTH) INLET PROTECTION
- OP / OP
- CWO / CWO — CONCRETE WASHOUT AREA
- POL / POL — PORT-O-LET LOCATION
- TS / TS — TEMPORARY MATERIAL STORAGE AREA
- TTS / TTS — TEMPORARY TRASH STORAGE AREA
- TSS / TSS — TEMPORARY SOIL STORAGE AREA
- EROSION CONTROL GROUND COVER AS APPROVED BY THE ENGINEER
- GRAVEL CONSTRUCTION ENTRANCE
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AND / OR VEGETATION AFTER CONSTRUCTION. REFER TO NOTES ON SHEET C010 FOR GENERAL APPLICABILITY. REFER TO LANDSCAPE ARCHITECT FOR SEEDING REQUIREMENTS.
- NATIVE VEGETATION. SEE LANDSCAPE PLANS FOR PLANT MIX
- RIP-RAP TO REMAIN
- ROCK DONUT
- HYDROLOGIC SOIL GROUP BOUNDARY
- YbvA — Brookston Silty Clay
- YclA — Crosby Silt Loam

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

PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

GENERAL NOTES

1. LAND ALTERATIONS WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING TREES AND ETC. WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
11. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON THE FLOOD INSURANCE RATE MAP FOR HAMILTON COUNTY, INDIANA PANEL 18057C0205G DATED 11/19/2014.
12. SCHEDULE OF EARTHWORK ACTIVITIES:
    - A. THE DURATION OF THE TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS WHEN ACTIVITY CEASES FOR MORE THAN 14 DAYS OR AS DIRECTED BY THE ENGINEER.
    - B. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
    - C. STOCKPILES SHALL BE LOCATED AS SHOWN. STOCKPILES SHALL HAVE SILT FENCE AROUND THE PERIMETER AND BE SEEDED IF IT IS UNDISTURBED FOR MORE THAN 14 CONSECUTIVE DAYS.
13. ANY OFFSITE BORROW AND/OR WASTE SITES THAT ARE NEEDED SHALL BE PERMITTED AS PART OF THIS PERMIT OR BE PART OF AN EXISTING PERMIT.
14. ALL CONTROLS FROM THE EROSION CONTROL PLAN MUST BE INSTALLED PRIOR TO DEMOLITION.

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
WV FH HYD M	WATER VALVE/FIRE HYD/METER
T	TELE / GAS MARKER
G	GAS METER / VALVE
CO	CLEAN-OUT
E	ELEC. METER BOX/TRANSFORMER
EP TP	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
AC GEN	AIR CONDITIONER / GENERATOR
M	MAGNAIL SET/FOUND
R	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
TR	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
12" / 36"	CONIFEROUS TREE & SIZE / DECIDUOUS TREE & SIZE
D	DRAINAGE /SANITARY MANHOLE
C L	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
	UNDG. ELECTRIC LINE
	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

CSC TBM #151 ELEVATION 912.59

A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.:	2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

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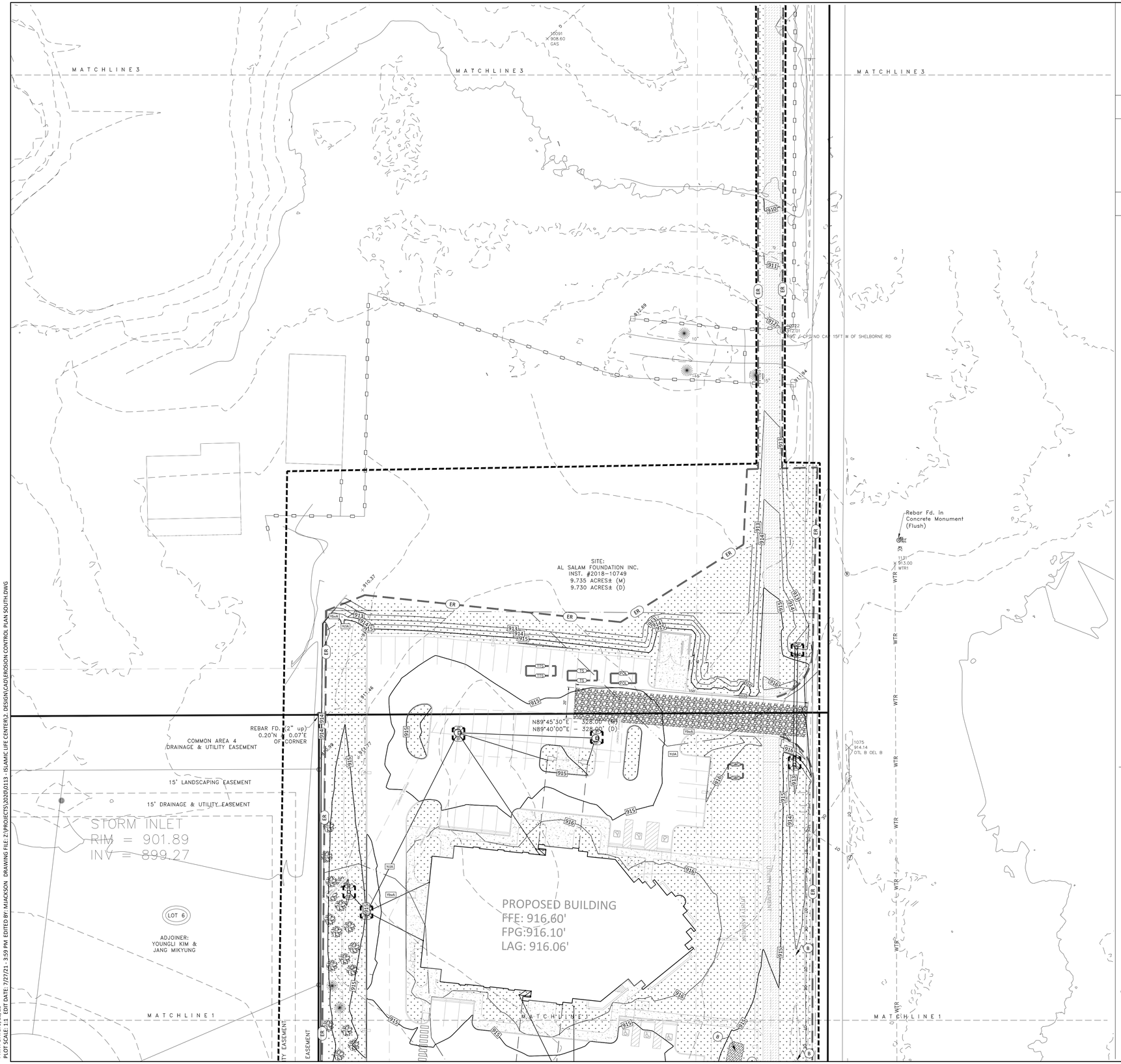
TAC RESPONSE 5.0 09/21/2021

EROSION CONTROL PLAN SOUTH

C27

PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 7/27/21 - 3:59 PM EDITED BY: MJACKSON DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\EROSION CONTROL PLAN SOUTH.DWG



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SCALE: 1"=30'

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

EROSION CONTROL LEGEND

A. VEGETATED SWALE PROTECTION SIGNAGE

B. VEGETATED SWALE

C. POND BANKS

EROSION CONTROL LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EROSION ROLL
- CONSTRUCTION LIMITS
- CONSTRUCTION FENCE
- DRAINAGE & BMP EASEMENT
- OUTLET PROTECTION (10' LENGTH) INLET PROTECTION
- CONCRETE WASHOUT AREA
- PORT-O-LET LOCATION
- TEMPORARY MATERIAL STORAGE AREA
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2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
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9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING TREES AND ETC. WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
11. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON THE FLOOD INSURANCE RATE MAP FOR HAMILTON COUNTY, INDIANA PANEL 18057C0205G DATED 11/19/2014.
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14. ALL CONTROLS FROM THE EROSION CONTROL PLAN MUST BE INSTALLED PRIOR TO DEMOLITION.

EXISTING LEGEND

LEGEND:

	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE / GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST with LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
WTR	UNDG. WATER LINE
G	UNDG. GAS LINE
UT	UNDG. TELEPHONE LINE
	UNDG. ELECTRIC LINE
	OVERHEAD ELE. & TEL
OETC	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe
HDPE	high-density polyethylene pipe
DI	ductile iron pipe

BENCHMARK DATA

LEE 4 RESET ELEVATION 910.53 (NAVD 88)

A DNR TABLET FOUND IN TOP OF THE CONCRETE POST 15.3 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD AND 1500 FEET SOUTH OF THE ORIGINAL CENTERLINE OF 146TH STREET.

CSC TBM #156 ELEVATION 912.83

A 5/8" CAPPED REBAR SET ±12 FEET EAST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±760 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

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A MAGNAIL WITH WASHER STAMPED "TSC CPT" FOUND AT THE END OF AN ASPHALT PATH, ALSO ±335 FEET WEST OF THE CENTERLINE OF SHELBORNE ROAD, ALSO ±25 FEET NORTH OF THE CENTERLINE OF 141ST STREET.

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

TIMOTHY M. JENSEN
REGISTERED
No. PE 10708270
STATE OF INDIANA
PROFESSIONAL ENGINEER
03/17/2021

VERIDUS ENGINEERING
6380 N. Shadeland Avenue, Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647 | www.theveridusgroup.com

Al Salam Foundation

ISLAMIC LIFE CENTER

14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
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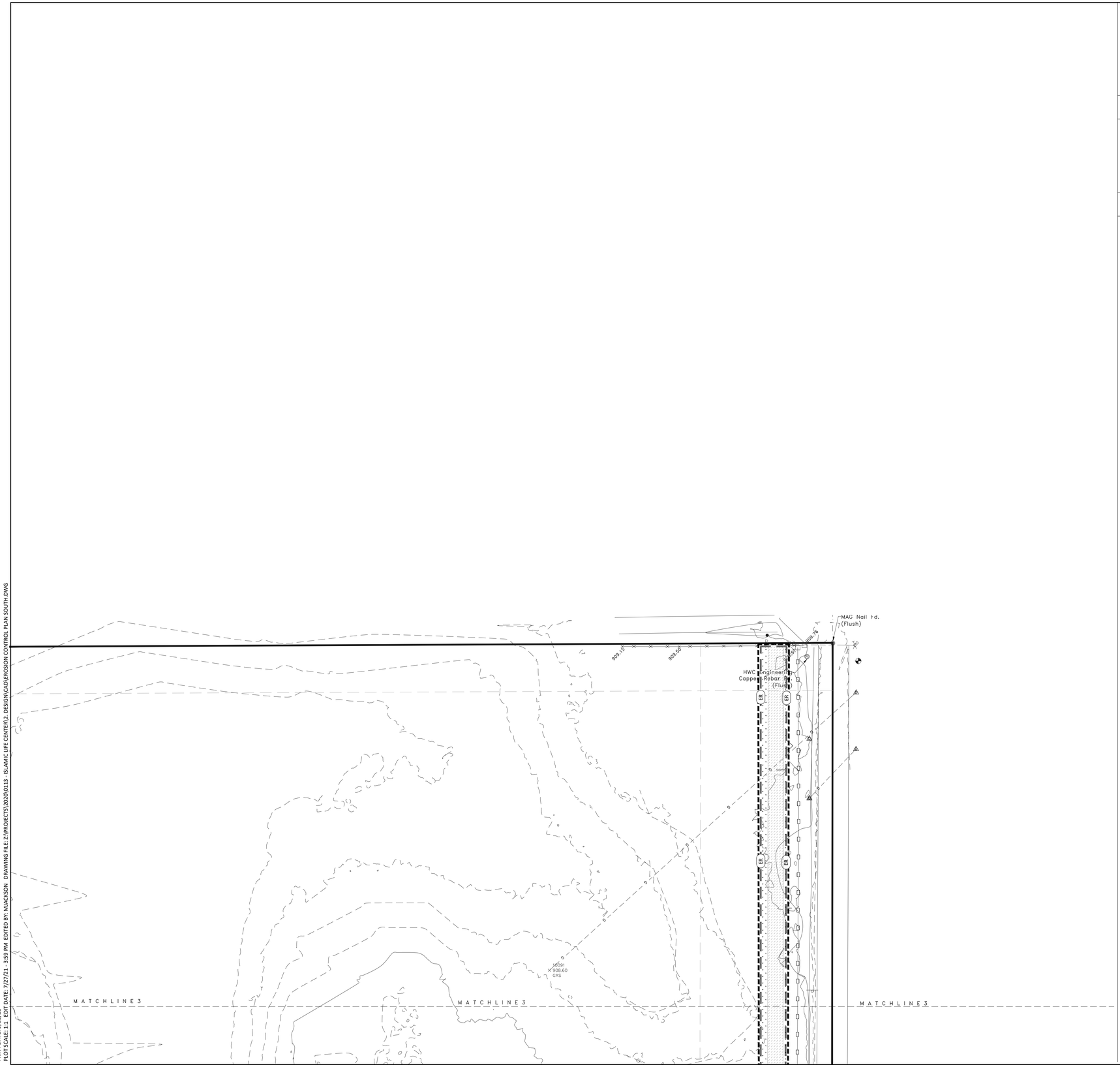
EROSION CONTROL PLAN CENTER

C28



PRINT DATE: 9/21/21
PLOT SCALE: 1:1 EDIT DATE: 7/27/21 - 3:59 PM EDITED BY: MJACKSON DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\EROSION CONTROL PLAN SOUTH.DWG

0' 30' 40'

SCALE: 1"=30'

EROSION CONTROL LEGEND

A. VEGETATED SWALE PROTECTION SIGNAGE

B. VEGETATED SWALE

C. POND BANKS

EROSION CONTROL LEGEND

- 668 — EXISTING CONTOUR
- 668 — PROPOSED CONTOUR
- ER — EROSION ROLL
- CONSTRUCTION LIMITS
- CF — CONSTRUCTION FENCE
- DRAINAGE & BMP EASEMENT
- IP — OUTLET PROTECTION (10' LENGTH) INLET PROTECTION
- OP
- CWO — CONCRETE WASHOUT AREA
- POL — PORT-O-LET LOCATION
- TS — TEMPORARY MATERIAL STORAGE AREA
- TTS — TEMPORARY TRASH STORAGE AREA
- TSS — TEMPORARY SOIL STORAGE AREA
- EROSION CONTROL GROUND COVER AS APPROVED BY THE ENGINEER
- GRAVEL CONSTRUCTION ENTRANCE
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AND / OR VEGETATION AFTER CONSTRUCTION. REFER TO NOTES ON SHEET C010 FOR GENERAL APPLICABILITY. REFER TO LANDSCAPE ARCHITECT FOR SEEDING REQUIREMENTS.
- NATIVE VEGETATION. SEE LANDSCAPE PLANS FOR PLANT MIX
- RIP-RAP TO REMAIN
- ROCK DONUT
- HYDROLOGIC SOIL GROUP BOUNDARY
- YbvA — Brookston Silty Clay
- YclA — Crosby Silt Loam

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

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BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING,LLC. PROJECT NUMBER 20-043, DATED 06/07/2020.

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TAC RESPONSE 5.0 09/21/2021

EROSION CONTROL PLAN NORTH

C29

EROSION CONTROL NOTES:

1. CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, GRADING, AND STORM SEWER SYSTEM.
2. PRELIMINARY CONSTRUCTION SCHEDULE: CONSTRUCTION SHALL BEGIN IN THE FALL 2020. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2022. THIS SCHEDULE IS SUBJECT TO CHANGE.
3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
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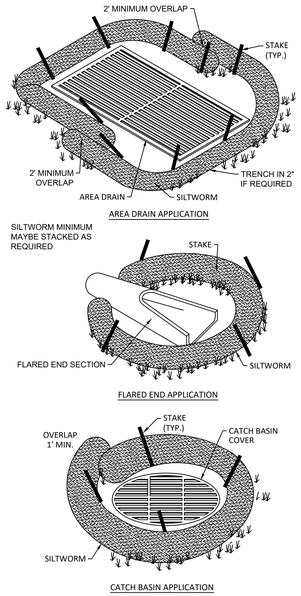
11. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE SURROUNDED BY ROCK DONUTS.
12. EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
13. THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
14. ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
15. SCHEDULE OF EROSION CONTROL ACTIVITIES:
    a. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
    b. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
    c. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
16. APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
    a. FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
    b. SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
18. ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
19. CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT THE GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
20. CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
21. CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.
24. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
25. PORTABLE TOILETS MUST BE ANCHORED



SILTWORM
P.O. BOX 691, ST JOHN, IN 46373
PHONE (219) 488-7240, www.siltworm.com

SILTWORM GENERAL NOTES

SILTWORM ARE SUPPLIED AND INSTALLED IN DIAMETERS OF 8", 12", OR 18". DIAMETER TOLERANCES ARE 2". SILTWORM WILL BECOME OVAL IN SHAPE WHEN IN PLACE, THUS THE INSTALLED HEIGHT WILL BE LESS THAN NOMINAL DIAMETER. SEE WWW.SILTWORM.COM FOR SUPPLEMENTARY INSTALLATION INFORMATION.

MATERIAL SPECIFICATIONS

NETTING:
SILTWORM IS A TUBULAR KNIT HIGH DENSITY POLYPROPYLENE.
FILL MATERIAL:
IS A KILN DRIED MATERIAL CONSISTING OF WOOD CHIPS, BARK FREE SOFTWOOD, THAT IS 100% RECYCLED.

APPLICATIONS

IN ADDITION TO THE APPLICATIONS SHOWN, SILTWORM CAN ALSO BE PLACED IN DITCHES OR AT THE TOP, ON THE FACE, OR AT THE TOW OF SLOPES AS SEDIMENT TRAPPING DEVICES. THEY CAN ALSO SERVE TO REMOVE SEDIMENT FROM RUNOFF AND RELEASE IT AS SHEET FLOW.
PERIMETER CONTROL:
PLACE SILTWORM DIRECTLY ON TOP OF GRADE, AND OVERLAP ENDS A MINIMUM OF 6". SITE PREPARATION IS MINIMAL, AND THERE IS NO STAKING OR TRENCHING REQUIREMENT FOR GRADES UNDER 12%. ARRANGE THE SILTWORM PERIMETER CONTROL IN A MANNER THAT IS APPLIED PERPENDICULAR TO SHEET FLOW. MAINTAIN CONSISTENT GROUND CONTACT.
SLOPE INTERRUPTION:
PLACE SILTWORM PERPENDICULAR TO SHEET FLOW AND CURL ENDS UP TOWARD THE TOP OF THE SLOPE. STAKE THE SILTWORM EVERY 6', AND OVERLAP THE ENDS BETWEEN 1 TO 2 FEET. PLACE A LINE OF DEFENSE AT THE TOP OF THE SLOPE, AND ANOTHER WITHIN 10' FROM THE TOE OF THE SLOPE.
SILTWORM INSTALLATION ON A SLOPE SHALL BE PLACED ALONG OR ON THE GROUND CONTOUR. WHERE POSSIBLE SILTWORM APPLIED TO THE TOE OF A SLOPE SHOULD BE PLACED 10 FEET AWAY FROM THE TOE IN ORDER TO PROVIDE SEDIMENT STORAGE.
DITCH CHECK:
SILTWORM SHOULD BE INSTALLED WITH A SLIGHT ENTRENCHMENT, AND STAKED EVERY 4' IN THE DITCH CHECK APPLICATION.
FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE ARE SHALL BE 15 ACRES, AT SITES WHICH OUTFALL TO EXCEPTIONAL WATER OR SEDIMENT-IMPAIRED STREAMS, THE MAXIMUM DRAINAGE AREA SHALL BE LIMITED TO 10 ACRES.
SILTWORM SHALL BE PLACED PERPENDICULAR TO THE FLOW OF WATER, SILTWORM SHALL CONTINUE UP THE SIDE SLOPES TO THE UP OF BANK OR A MAXIMUM OF 3 FEET ABOVE THE INSTALLED HEIGHT SILTWORM SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED.

MAINTENANCE

SILTWORMS SHALL BE INSPECTED AFTER EACH RUNOFF EVENT AND SHALL BE REMOVED AND REPLACED IF SIGNS OF UNDERCUTTING OR DOWN STREAMING RILLS ARE OBSERVED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILTWORM WHEN IT HAS ACCUMULATED TO ½ THE ORIGINAL HEIGHT OF THE STRUCTURE.

REMOVAL

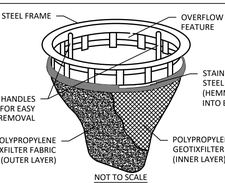
SILTWORM SHALL BE REMOVED FROM SLOPES, DITCHES, PERIMETER, OR INLETS AFTER STABILIZATION IS COMPLETE. THIS MAY BE ACCOMPLISHED BY CUTTING THE SOCK OPEN AND SPREADING THE FILL MATERIAL ON THE SITE. ALL NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED. SILTWORMS APPLIED IN DITCHES SHALL BE COMPLETELY REMOVED.

SILTWORM DETAIL
NOT TO SCALE

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B									B		
TEMPORARY SEEDING			C		E		D					

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
C = SPRING OATS 3 BUSHELS/ACRE
D = WHEAT OR RYE 2 BUSHELS/ACRE
E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
/I/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



THE CATCH-ALL IS AN INLET AND CATCH BASIN FILTRATION DEVICE DEVELOPED TO PREVENT SEDIMENTATION. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING, AND COULD REPRESENT A BEST MANAGEMENT PRACTICE FOR YOUR EPA PHASE 2 PROGRAM.

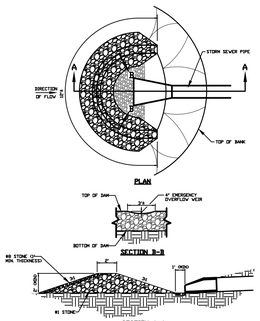
TEMPORARY INSTALLATION: CONSTRUCTION PROJECTS ON HIGHWAYS AND NEW HOUSING DEVELOPMENTS CAN RESULT IN SUBSTANTIAL AMOUNTS OF SEDIMENT DURING A RAINSTORM. TRADITIONAL PRACTICE, USING SILT SCREENS, HAY BALES, AND FILTER FABRIC UNDER STORM GRATES PROVIDE ONLY LIMITED PROTECTION. CATCH-ALL WILL HOLD 2 CUBIC FEET OF GRAVEL, SILT, AND DEBRIS, AND CAN BE MOVED FROM SITE-TO SITE.

CATCH-ALL HAS BEEN APPROVED FOR USE ON MANY MOT ROAD CONSTRUCTION PROJECTS.

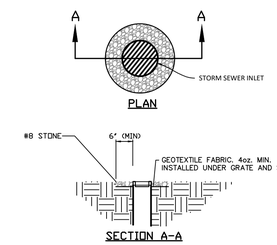
PERMANENT INSTALLATION:
COMMERCIAL AND INDUSTRIAL SITES WITH IMPERVIOUS SURFACES, SUCH AS ROADS AND PARKING LOTS, PRODUCE STORMWATER RUN-OFF THAT MAY INCLUDE PAPER REFUSE, CIGARETTES, SEDIMENT, AND EVEN SOME FLOATING OILS. THESE CONTAMINANTS CAN QUICKLY ADD UP TO A SIGNIFICANT AMOUNT IN CATCH BASINS OR MUNICIPAL SYSTEMS. WITHOUT PROPER TREATMENT, STORMWATER LADEN WITH SUCH MATERIALS CAN POLLUTE STREAMS, LAKES, AND NEAR-SHORE WATERS. THE UNIQUE DESIGN OF THE REUSABLE STEEL FRAME OF CATCH-ALL PROVIDES AN OVERFLOW CAPACITY GREATER THAN THE OPEN AREA OF THE GRATE IT FITS UNDER. THIS MEANS LITTLE CHANCE FOR WATER TO BACK UP OR POOL, EVEN BETWEEN SCHEDULED CLEANINGS. THE DURABLE, REINFORCED SEDIMENT BAG CAN BE CLEANED NUMEROUS TIMES AND IS EASILY REPLACED IN THE FIELD. THE ENTIRE UNIT IS INSTALLED BELOW GRADE AND NO REBAR, CLIPS, OR STRAPS ARE EXPOSED ON THE SURFACE. WITH A TOP FLANGE LESS THAN 1/8" THICK, THE ADDITIONAL HEIGHT EXPOSURE OF THE GRATE IS MINIMAL. CATCH-ALL CAN BE AN IMPORTANT SUPPLEMENT FOR CATCH BASINS AND UNDERGROUND STORMWATER STORAGE SYSTEMS THAT ARE USUALLY DIFFICULT TO ACCESS FOR CLEANING. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING.

D2 LAND & WATER RESOURCE INC.
BOX 20792, INDIANAPOLIS, IN 46220
PH. (317) 917-2180, www.d2lwr.com

CATCH-ALL DETAIL
STORMWATER INLET PROTECTOR

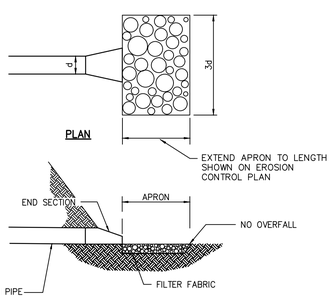


ROCK DONUT DETAIL
NOT TO SCALE



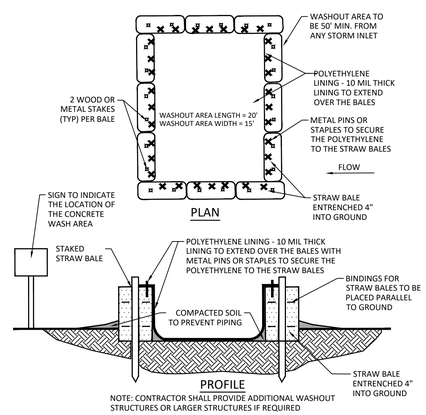
MAINTENANCE:
1. INSPECT THE STRUCTURE AFTER EACH STORM EVENT, REMOVING SEDIMENT AND MAKING NEEDED REPAIRS IMMEDIATELY.
2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZES, REMOVE AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT.

INLET (<12") PROTECTION DETAIL
NOT TO SCALE



NOTES:
1. FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND POSTWELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 6 IN. THICK
2. STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
3. MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL).

OUTLET PROTECTION DETAIL
NOT TO SCALE

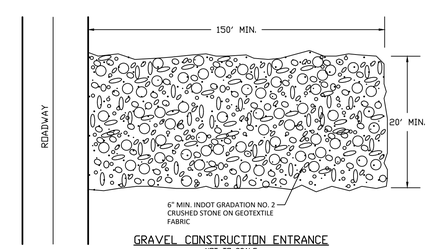


NOTE: CONTRACTOR SHALL PROVIDE ADDITIONAL WASHOUT STRUCTURES OR LARGER STRUCTURES IF REQUIRED

ABOVE GROUND CONCRETE WASHOUT AREA
NOT TO SCALE

CONCRETE WASHOUT NOTES:

1. LOCATE WASH OUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR BODIES OF WATER. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
2. TEMPORARY WASH OUT FACILITIES SHOULD HAVE A TEMPORARY PIT AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND SOLID WASTE CONCRETE MATERIALS GENERATED DURING WASH OUT PROCEDURES.
3. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO WASH OUT PIT.
4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY FOR PUNCTURES OR TEARS IN THE PLASTIC LINER. THE LINER SHALL BE REPLACED UPON REMOVAL OF HARDENED CONCRETE.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES. MAINTAINING TEMPORARY CONCRETE WASH OUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF. IN ACCORDANCE WITH LOCAL STANDARDS.
7. CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED WITH LATH & FLAGGING AND A SIGN POSTED AND LABELED "CONCRETE WASHOUT". LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
8. THE CONCRETE WASH OUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. 10. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE



GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8 in. HIGH WATER BAR (RIDGE) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 ft. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
5. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

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

PROJECT NO.: 2020.0113	DRAWN BY: MWJ	CHECKED BY: TMJ

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Al Salam Foundation
ISLAMIC LIFE CENTER
14120 Shelborne Road, Carmel IN 46074

PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021

EROSION CONTROL DETAILS

C30

SWPPP FOR CONSTRUCTION SITES

1. 14 DIGIT WATERSHED HYDROLOGIC UNIT CODE

   05120201120070

2. NAME OF ALL RECEIVING WATERS

   Little Eagle Branch-Woodruff Branch is the ultimate receiving water for the project area.

3. PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE

   PRE-CONSTRUCTION 10-YEAR DISCHARGE: 1.14 CFS
   POST-CONSTRUCTION 10-YEAR DISCHARGE: 0.38 CFS

4. SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE

   STORMWATER DRAINAGE FROM THE SITE WILL BE CONVEYED BY A PROPOSED STORM SEWER TO PROPOSED DRY DETENTION FACILITIES ALONG THE SOUTH SIDE OF THE SITE. THE DRY DETENTION FACILITIES WILL DISCHARGE TO AN EXISTING STORM SEWER SYSTEM ALONG THE WEST EDGE OF THE PROJECT SITE.

5. IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER

   THERE ARE NO LOCATIONS ON SITE WHERE SURFACE WATER MAY BE DISCHARGED INTO GROUND WATER.

6. SOILS MAP OF THE PREDOMINANT SOIL TYPES INCLUDING:
   a. Soil legend with descriptions of each soil type

   The Natural Resources Conservation Service (NRCS) Web Soil Survey of Hendricks County, Indiana, indicates Brookston Silty Clay, and Crosby Silt loam are located on the site. The full soil legend can be found on the Erosion Contol Plan.

   b. Brief description of how the site has accommodated the existing soil limitations

   The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

7. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
   The following potential pollutant sources may be associated with construction activities on site:

- Material storage areas (more specifically described below)
- Construction waste material
- Fuel storage areas and fueling stations
- Exposed soils
- Leaking vehicles and equipment
- Sanitary waste from temporary toilet facilities
- Litter
- Windblown dust
- Soil tracking off site from construction equipment

The following construction materials may be staged or stored on site at various points during development of the site:

- Structural fill
- Pavement Base Stone
- HDPE, PVC, RCP or Ductile Iron pipe
- Precast concrete, HDPE or PVC drainage and sanitary structures
- Rock rip-rap

8. TEMPORARY AND PERMANENT STORMWATER QUALITY MEASURES:
   a. Location
   b. Dimensions
   c. Detailed specifications
   d. Construction details
   e. Monitoring and maintenance guidelines

   Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details.

   MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

   Inspection Schedule/Reporting
   All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

   Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

   Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.

   Construction Entrance
   Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

   Material Storage Inspections
   Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.

   Soil Stabilization Inspections
   Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

   Erosion and Sediment Control Inspections
   All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:

1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

   In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

   Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

   It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

   Notice of Termination
   Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

   All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:

1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.

2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.

3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

9. GENERAL CONSTRUCTION SEQUENCE
   Each plan should contain multiple stormwater pollution prevention measures. All measures will not be installed at the same time. Various measures will be installed at different times throughout the construction process. Some will be installed prior to land disturbance, and others may not be installed until work at the site progresses to an area where they are necessary. Each proposed measure should be identified in the sequence as to when it is to be installed in relation to the land disturbing activities.
   continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

   SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

1. Schedule pre-construction meeting with local stormwater authority.
2. Install construction entrance.
3. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
4. Install staging area, fueling station, material storage area and concrete truck washout.
5. Strip the top soil and grade.
6. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
7. Prior to building construction install stone surface for paved areas.
8. Building pads left dormant for more than 15 days, must be temporarily seeded.
9. Start building construction. Install staging area for building materials.
10. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
11. Seed the perimeter of the site.
12. Complete utility installation, curbs, paving and building construction.
13. Install landscaping plant material and stabilize all disturbed areas.
14. Remove all erosion and sediment control practices when areas have a uniform grass cover.

   Stable construction entrance locations and specifications

   Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details.

   Sediment control measures for sheet flow areas

   Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

   Sediment control measures for concentrated flow areas

   Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

   Storm sewer inlet protection measure locations and specifications

   The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures.

   Runoff control measures

   Temporary, permanent seeding, erosion ground cover and erosion rolls will be placed during construction as runoff control measures.

   Stormwater outlet protection specifications

   Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

   Grade stabilization structure locations and specifications

   Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

10. LOCATION OF PROPOSED SOIL STOCKPILES, BORROW, AND/OR DISPOSAL AREAS
    Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.

11. TEMPORARY AND PERMANENT SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

    Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more. Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.

    A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil.Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
    B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
    C. low-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent
    D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
    E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
    F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
    G. Install erosion control blankets as indicated on the plan.
    H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
    I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
    J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

12. EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL LOTS

    This site will not be subdivided; therefore, there are no individual lots on the property. The proposed site improvements are shown on the included plans.

13. MATERIAL HANDLING, STORAGE, AND SPILL PREVENTION PLAN
    a. List of expected materials that may be present on the site during construction operations
    b. Written description of how these materials will be handled to minimize the potential of entering the storm sewer system
    c. Procedures for the contractor to take if any spills occur during construction.

    Solid Waste Disposal
    No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

    A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

    Hazardous Waste
    Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

    Use containment berms in fueling and maintenance areas and where potential for spills is high.

    A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

    Dust Control/Off-Site Vehicle Tracking
    During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

    Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

    Sanitary/Septic
    Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

    Water Source
    Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

    Equipment Fueling and Storage Areas
    Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

    Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

    Hazardous Material Storage
    Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

    As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

    Material Handling and Spill Prevention
    Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

    Concrete Washout
    All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

    Spill Response Plan
    Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the discovery of the spill.
    - Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

- Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if the spill could be a safety issue.
- Contact supervisors and designated site inspectors immediately.
- Contaminated solids are to be removed to an approved landfill.

- Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazardous material spill.
- Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
  - Name, address and phone number of person making the spill report
  - The location of the spill
  - The time of the spill
  - Identification of the spilled substance
  - Approximate quantity of the substance that has been spilled or may be further spilled
  - The duration and source of the spill
  - Name and location of the damaged waters
  - Name of spill response organization
  - What measures were taken in the spill response
  - Other information that may be significant

  Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency.

14. CONTACT INFORMATION FOR THE TRAINED INDIVIDUAL RESPONSIBLE FOR STORMWATER POLLUTION PREVENTION FOR THE PROJECT SITE
    a. Name - TBD
    b. Address - TBD
    c. Telephone number -TBD
    d. E-mail address - TBD
    e. List of qualifications - TBD

15. CURRENT REVISION DATE ON ALL SHEETS
    Refer to the Title Block.

SWPPP FOR POST-CONSTRUCTION

1. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH THE PROPOSED LAND USE.
   The proposed land use is an Islamic Worship Center. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

   Pollutant Source: Passenger vehicles, delivery vehicles.
   Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.

   Pollutant Source: Building
   Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

   Pollutant Source: Trash dumpster
   Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

   Pollutant Source: Parking lot
   Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

   Pollutant Source: Lawn and landscape areas
   Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

2. POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

   The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post-construction stormwater quality BMPs.

   Dry detention pond, native vegetation, Aquaswirl Model AS-8, and the vegetated swale will remain on site as water quality measures. Refer to Utility Plan/Details for more information.

3. SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

   The stormwater detention pond and BMP will remain in place as permanent features after construction is completed. The purpose of the these measures is to restrict stormwater discharges and provide a sediment removal function.

4. STORMWATER QUALITY MEASURES TO BE IMPLEMENTED TO PREVENT OR MINIMIZE ADVERSE IMPACTS TO STREAM AND RIPARIAN HABITATS
   Permanent Vegetation
   Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 3:1 slopes. Proposed landscape trees and shrubs will also be added. These Bio areas will act as a natural filter strip to help improve storm water quality. The vegetated areas will slow the velocities of storm water runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

   Dry Detention Basin
   Basins collect, temporarily hold, and gradually release excess storm water from storm events. Detention is achieved through the use of an outlet structure that regulates the rate of storm water outflow.

   Mechanical BMP (Aqua-swirl, etc.)
   A BMP structure will be installed at the downstream end of the storm sewer system, prior to the storm sewer outlet. The primary purpose of the BMP is to remove sediment, oils and floatable debris from the stormwater prior to discharging from the site.

   Good Housekeeping Measures
   Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

5. AN OPERATION AND MAINTENANCE MANUAL FOR ALL POST-CONSTRUCTION STORMWATER QUALITY MEASURES:

   An operation and maintenance manual has been completed and included as apart of these plans.

PROJECT NO.: 2020.0113 | DRAWN BY: MWJ | CHECKED BY: TMJ

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PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021

STORM WATER POLLUTION PROTECTION PLAN

C31

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PLOT SCALE: 1:1 EDIT DATE: 7/22/21 - 1:45 PM EDITED BY: NFOSTER DRAWING FILE: Z:\PROJECTS\2020\0113 - ISLAMIC LIFE CENTER\2. DESIGN\CAD\STORM WATER POLLUTION PROTECTION PLAN.DWG

1) General

A) The work subject to the requirements of this policy shall include the production, hauling/delivery, excavation for, placing, installation, jointing, curing, finishing, and other work necessary to prepare foundations and soil subgrades, install aggregate bases and install concrete curbing within property within the corporate limits of the City of Carmel and existing or proposed right-of-way.

B) This policy shall be the basis for acceptance of the work by the City. Failure to adhere to the requirements of this policy may result in non-acceptance of the work or other remedies outlined in this policy.

C) Workmanship, materials and quality of the work completed shall conform to the 2006 Standard Specifications of the Indiana Department of Transportation (hereinafter referred to as Standard Specifications), except where deviations are allowed or specified herein, or variances are granted.

D) Where the minimum standards of any other governmental agency having concurrent jurisdiction exceed these standards, the higher standards shall apply.

E) If any plan or other note or specification on the approved construction documents exceeds the minimum standards of this policy, the higher standards shall apply.

F) Nothing contained herein shall be construed as prohibiting the design and construction of improvements meeting higher standards, nor as discouraging petitions to appropriate governing bodies for variances for alternatives which can be supported by advances in technology and are approved by other agencies with concurrent jurisdiction.

G) All work shall comply with the requirements of Section 105.03 of the Standard Specifications.

H) For the purposes of this policy, where the term Engineer is used in this policy and the Standard Specifications, it shall mean:

i) The Carmel City Engineer, staff of the Department of Engineering, other personnel employed by the City of Carmel, or authorized agent(s) that may be retained to represent the City of Carmel.

ii) The Hamilton County Highway Engineer, staff of the Hamilton County Highway Department, other personnel employed by Hamilton County, or authorized agent(s) that may be retained to represent Hamilton County Highway, depending on the location of the work.

I) Authority of the Engineer over the work shall be per Section 105.01 of the Standard Specifications.

J) Prior to commencing the work, the Contractor performing the work shall contact the Engineer to schedule a pre-construction meeting to review the Engineer's construction requirements, staff notification requirements, required inspections for certain stages of the work and to review the authority of the Engineer as it relates to the work.

K) Under no circumstances shall work subject to the standards established by this policy commence without obtaining approved construction drawings by the City of Carmel Department of Engineering.

L) At the sole discretion of the Engineer, the portions of this policy related to inspections and testing of work subject to the requirements of this policy outside of the right-of-way shall be determined at the pre-construction meeting.

M) Dimensional and other standards for concrete curb shall be in accordance with the City of Carmel Standard Details.

N) Under no circumstances shall material other than Portland Cement Concrete meeting the standards established by this policy be utilized to construct concrete curbs within the corporate limits of the City of Carmel.

O) Under no circumstances shall extruded type curb be installed within the corporate limits of the City of Carmel.

2) Foundation

A) General

i) This work shall consist of the construction/preparation of the foundation in accordance with Section 105.03 of the Standard Specifications.

ii) The foundation shall be prepared in accordance with Section 605.03(a) of the Standard Specifications and the requirements of this policy.

B) Excavation and Embankment

i) Prior to beginning excavation and embankment operations, all necessary clearing, grubbing, scalping and topsoil stripping and subsequent backfilling for removed items within the slope stake limits shall be performed in accordance with Section 201.03 and 201.04 of the Standard Specifications. All topsoil, vegetation, roots, stumps, friable and deleterious material shall be completely removed within the limits of the slope stakes.

ii) Excavations

(1) After excavation operations, all spongy and yielding material that does not readily compact shall be removed from within the slope stake limits and the resulting void shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications.

(2) Any pronounced depressions within the slope stake limits resulting after excavation operations shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications.

iii) Embankments

(1) Embankments shall be constructed in accordance with Section 203 of the Standard Specifications.

(2) All spongy and yielding material that does not readily compact shall be removed from within the slope stake limits prior to embankment operations.

(3) Any pronounced depressions within the slope stake limits resulting after clearing, grubbing, scalping and topsoil removal shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications prior to embankment operations.

(4) Prior to the construction of any embankment, the original ground surface within the limits of the slope stakes shall be leveled and the upper 6-inches shall be compacted in accordance with Section 203 of the Standard Specifications.

(5) Embankments shall be shaped to be well drained and shall be protected to prevent erosion.

(6) Loose depth of each embankment lift, final compacted depth, compaction method and compaction requirements shall be in accordance with Section 203 of the Standard Specifications.

C) Soil Subgrades

i) Subgrades shall be installed on foundations constructed in accordance with Section 2(A) and Section 2(B) of this policy and only after the installation of all utilities and subsurface drains indicated on the approved construction documents to be located under the pavement are completed. Trench backfilling work of these installations shall be in accordance with the City of Carmel Trench Backfilling specifications.

ii) The subgrade shall be shaped to the required grade and sections, free from all ruts, corrugations, or other irregularities.

iii) The subgrade shall be uniformly prepared, compacted and approved in accordance with Sections 207.02, 207.03 and 207.04 of the Standard Specifications.

iv) Subgrades shall be inspected and approved by the Engineer before any aggregate base or concrete curbs are constructed. A proofroll shall be conducted in accordance with Section 203.26 of the Standard Specifications. Unacceptable areas shall be corrected to the satisfaction of the Engineer before the placement of any Aggregate Base or concrete curbing.

v) At the discretion of the Engineer, Subgrade that has satisfactorily passed a proofroll, but remains uncovered for a period of 14 calendar days prior to placing Aggregate Base or concrete curbing or is subject to a measurable rain event prior to placing Aggregate Base or concrete curbing, shall be subject to additional proof rolls prior to placement of the Aggregate Base or concrete curbing.

3) Aggregate Bases

A) General

i) This work shall consist of placing a compacted Aggregate Base on a prepared soil subgrade in accordance with Section 105.03 of the Standard Specifications.

ii) Aggregate Base materials shall be in accordance with Section 301.02 of the Standard Specifications.

iii) The Aggregate Base material shall be obtained from a Certified Aggregate Producer in accordance with Section 917 of the Standard Specifications.

iv) The Aggregate Base material shall be handled and transported to, and on, the work site in a manner that minimizes segregation and moisture loss.

v) Aggregate Bases shall be constructed on approved soil subgrades and to thicknesses equal or greater than those indicated on the approved construction documents.

B) Temperature and Seasonal Limitations

i) The Aggregate Base shall be placed in accordance with the temperature limitations of Section 301.04 of the Standard Specifications.

ii) Frozen material shall not be placed.

iii) Aggregate Bases must be placed and pass proof roll prior to November 30 in order to allow paving in accordance with Section 4C(iv) of this policy.

C) Preparation

i) The prepared soil subgrade shall be free from objectionable or foreign materials at the time of placement.

ii) The subgrade shall be subject to additional proof rolls in accordance with Section 203.26 of the Standard Specifications just prior to placing the Aggregate Base on the subgrade in accordance with Section 2C(v) of this policy. Unacceptable areas shall be corrected to the satisfaction of the Engineer before any Aggregate Base is placed.

D) Spreading and Finishing

i) The Aggregate Base shall be spread in accordance with Section 301.05 of the Standard Specifications.

ii) The Aggregate Base shall be compacted in accordance with Section 301.06 of the Standard Specifications.

iii) Concrete curb shall be placed over the Aggregate Base within 14 calendar days. Aggregate Bases that lay exposed for a period of time greater than 14 calendar days or experience a measurable rain event prior to the placement of concrete curb shall be subject to inspection and acceptance by the Engineer. At the discretion of the Engineer, additional proof rolls may be required.

4) Concrete Curb

A) General

i) This work shall consist of placing concrete curbing on prepared soil subgrades or Aggregate Bases in accordance with Section 105.03 of the Standard Specifications.

ii) Concrete curb shall be constructed on prepared soil subgrades or Aggregate

Bases to the dimensional standards of the applicable City of Carmel Standard Details or in accordance with the curbing details of the approved construction documents.

iii) Materials used in the production of the concrete for the curbing shall be in accordance with Section 605.02 of the Standard Specifications. High early strength admixtures may be utilized but shall not be considered in waiving any requirements of this policy. Freeze protection admixtures shall not be utilized under any circumstances.

iv) Equipment utilized for concrete curbing installation work, including but not limited to production, hauling/delivery, placing, installation, jointing, curing, finishing and miscellaneous/ancillary activity shall be in accordance with Section 508 of the Standard Specifications.

v) Concrete production, mixing and hauling/delivery shall be in accordance with Section 502.10 of the Standard Specifications.

vi) Installation of the concrete curbing indicated on the approved construction documents shall be completed in the same paving season.

B) Preparation

i) The soil subgrade or Aggregate Base shall be subject to additional proof rolls in accordance with Section 203.26 of the Standard Specifications just prior to placing the HMA courses in accordance with Section 2C(v) and 3D(iii) of this policy. Unacceptable areas shall be corrected to the satisfaction of the Engineer before placement of any concrete curbing.

ii) All displacement or rutting of the soil subgrade or Aggregate Base shall be repaired prior to placing concrete curbing.

C) Weather and Seasonal Limitations

i) Concrete curbing shall only be placed in accordance with Section 502.11 of the Standard Specifications with the exception that placement operations shall not begin until the ambient temperature is 50°F and rising. Placement operations shall be discontinued when the ambient temperature is descending and is 50°F or below. At the discretion of the Engineer, concrete may be placed at ambient temperatures less than noted above provided that placement, jointing, finishing and curing operations conform to Sections 502.11 and 702.11 of the Standard Specifications.

ii) No mixture shall be placed on a frozen subgrade or Aggregate Base.

iii) Under no circumstances shall concrete curb be placed between December 15 and March 30.

iv) If a soil subgrade or Aggregate Base over which concrete curb is to placed, is placed and approved by the City prior to November 30, placement of the concrete curb will be allowed up to December 15, provided that the ambient and soil subgrade or Aggregate Base surface temperature complies with the requirements of Section 4C(i) of this policy and the paving contractor pay for

the services of a full time construction inspector and who shall act as an authorized agent of the Engineer. The Engineer shall select the construction inspector.

v) If the ambient and soil subgrade or Aggregate Base surface temperature complies with the requirements of Section 4C(i) of this policy between April 1 and April 15, concrete curb shall be allowed to be placed on an approved soil subgrade or Aggregate Base provided that the paving contractor pay for the services of a full time construction inspector and who shall act as an authorized agent of the Engineer. The Engineer shall select the construction inspector.

vi) The Engineer reserves the right to suspend all concrete curb placement operations if, in the opinion of the Engineer, that prevailing weather conditions and/or the condition of the Subgrade and/or the Aggregate Base may result in substandard concrete curb placement, curing and finishing.

D) Placement

i) Concrete curb shall be placed in accordance with Section 502.09, 502.12 and 605.04(c) and 605.04(d) of the Standard Specifications.

ii) Curb machines may be utilized in accordance with Section 605.04(c) and 605.04(h) of the Standard Specifications provided that the equipment conforms to the requirements of Section 508 of the Standard Specifications.

iii) Formwork shall comply with the requirements of Section 605.04(b) of the Standard Specifications.

iv) Forms shall be removed in accordance with Section 502.16 and 605.04(b) of the Standard Specifications.

E) Joints

i) Joints shall conform to the requirements of Section 503 and 605.04(e) of the Standard Specifications.

ii) Joints shall be installed at intervals of 10-feet or less; 5-foot or less along radii. Joints in integral curb and sidewalks shall be located at the same location as the joints in the adjoining sidewalk. Joints shall be sawed to a minimum depth of 1/3 the depth of each segment of the curb (02/07/14).

iii) Preformed expansion joints shall be placed at intervals of 50-feet or less, at all castings, the beginning and end of all curb returns, the end of each days work and where abutting existing construction. In addition to these requirements, expansion joints in integral curb and sidewalks shall be located at the same location as the expansion joints in the adjoining sidewalk.

F) Finishing and Curing

i) The concrete curb shall be finished and cured in accordance with Section 502.14, 502.15, 504 and 605.04(f) of the Standard Specifications.

ii) Curing compound shall be applied to all exposed surfaces on slip-formed

concrete curb. For formed concrete curb, curing compound shall be applied to all exposed surfaces including sides after any forms are removed.

iii) The concrete curb shall be allowed to cure for a minimum of 7-days prior to commencing backfilling operations adjacent to the concrete curbing (02/07/14).

G) Backfilling

i) The spaces adjacent to the concrete curb shall be backfilled in accordance with Section 605.04(g) of the Standard Specifications only after the concrete curbing is inspected and accepted by the Engineer in accordance with Section 5 of this policy.

ii) Backfilling operations shall be completed prior to opening the area to regular construction traffic.

5) Inspections

A) All materials furnished and each part or detail of the work will be subject to inspection per Section 105.10 of the Standard Specifications for the purpose of ascertaining that the work is in substantial conformance with this policy and the approved construction documents.

B) The Contractor shall notify the Engineer a minimum of 48-hours in advance of commencing any work subject to the standards established by this policy.

C) The Contractor shall schedule proofrolls with the Engineer a minimum of 48-hours in advance of such proofrolls.

D) The Contractor and Engineer will conduct an inspection of the new concrete curbing for any damage, including freezing or random cracks. The inspection and all necessary repairs shall be completed prior to backfilling operations.

E) Sampling and testing of materials, equipment or construction work may be required at the expense of the Contractor at the discretion of the Engineer for the purpose of ascertaining that the work is in substantial conformance with this policy and the approved construction documents. Sampling and testing shall conform to the requirements of the sections of the Standard Specifications applicable to the portion of the work suspected to be non-compliant or as directed by the Engineer.

F) Where the Engineer determines that is necessary to confirm compliance with standards of quality or thickness, concrete curb shall be cored and tested at the expense of the Contractor. The average thicknesses of the curb must equal or exceed the minimum prescribed by the approved construction documents.

G) Such inspections shall not be construed to relieve the developers' engineers or contractors in any way from their obligations and responsibilities under their contracts. Specifically, inspection by the Engineer, or by retained engineers or testing agencies, shall not require them to assume responsibilities for the approved construction documents, for any misinterpretation of the approved construction documents by the contractors during construction, or for the means and methods

of construction, nor for safety on the job site.

H) Work identified to not meet the requirements of this policy or the approved construction documents, unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner at the Contractor's expense.

I) If the Contractor fails to comply forthwith with any order made under the provisions of this subsection, the Engineer will have authority to cause unacceptable work to be remedied or removed and replaced; to cause unauthorized work to be removed; and to deduct the costs from any monies due or to become due.

J) Work done contrary to instructions provided by the Engineer shall be considered unacceptable and subject to immediate removal and replacement in accordance with the instructions provided by the Engineer.

6) Acceptance

A) Before acceptance of the concrete curb, the Engineer shall determine if the improvements are in substantial compliance with this policy (except for any variances granted) and the approved construction documents.

B) The Engineer may, at his sole discretion, accept work that is not in conformance with this policy provided that the work is bonded for a period greater than three years. The Engineer shall establish the extended bonding requirement.

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TAC RESPONSE 5.0 09/21/2021

CITY OF CARMEL CONCRETE POLICY

C32

1) General

A) The work subject to the requirements of this policy shall include the production, hauling/delivery, spreading, finishing, compaction and other work necessary to prepare foundations, install aggregate bases and install one or more courses of base, intermediate, or surface hot mix asphalt mixtures within existing or proposed right-of-way for roadways, auxiliary lanes and asphalt multi-use paths.

B) This policy shall be the basis for acceptance of the work by the City. Failure to adhere to the requirements of this policy may result in non-acceptance of the work or other remedies outlined in this policy.

C) Workmanship, materials and quality of the work completed shall conform to the 2006 Standard Specifications of the Indiana Department of Transportation (hereinafter referred to as Standard Specifications), except where deviations are allowed herein, or variances are granted.

D) Where the minimum standards of any other governmental agency having concurrent jurisdiction exceed these standards, the higher standards shall apply.

E) If any plan or other note or specification on the approved construction documents exceeds the minimum standards of this policy, the higher standards shall apply.

F) Nothing contained herein shall be construed as prohibiting the design and construction of improvements meeting higher standards, nor as discouraging petitions to appropriate governing bodies for variances for alternatives which can be supported by advances in technology and are approved by other agencies with concurrent jurisdiction.

G) All work shall comply with the requirements of Section 105.03 of the Standard Specifications.

H) For the purposes of this policy, where the term Engineer is used in this policy and the Standard Specifications, it shall mean:

i) The Carmel City Engineer, staff of the Department of Engineering, other personnel employed by the City of Carmel, or authorized agent(s) that may be retained to represent the City of Carmel.

ii) The Hamilton County Highway Engineer, staff of the Hamilton County Highway Department, other personnel employed by Hamilton County, or authorized agent(s) that may be retained to represent Hamilton County Highway, depending on the location of the work.

I) Authority of the Engineer over the work shall be per Section 105.01 of the Standard Specifications.

J) Prior to commencing the work, the Contractor performing the work shall contact the Engineer to schedule a pre-construction meeting to review the Engineer's construction requirements, staff notification requirements, required inspections for certain stages of the work and to review the authority of the Engineer as it relates to the work.

K) Under no circumstances shall work subject to the standards established by this policy commence without obtaining approved construction drawings by the City of Carmel Department of Engineering.

2) Foundation

A) General

i) This work shall consist of the construction/preparation of the foundation in accordance with Section 105.03 of the Standard Specifications.

B) Excavation and Embankment

i) Prior to beginning excavation and embankment operations, all necessary clearing, grubbing, scalping and topsoil stripping and subsequent backfilling for removed items within the slope stake limits shall be performed in accordance with Section 201.03 and 201.04 of the Standard Specifications. All topsoil, vegetation, roots, stumps, friable and deleterious material shall be completely removed within the limits of the slope stakes.

ii) Excavations

(1) After excavation operations, all spongy and yielding material that does not readily compact shall be removed from within the slope stake limits and the resulting void shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications.

(2) Any pronounced depressions within the slope stake limits resulting after excavation operations shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications.

iii) Embankments

(1) Embankments shall be constructed in accordance with Section 203 of the Standard Specifications.

(2) All spongy and yielding material that does not readily compact shall be removed from within the slope stake limits prior to embankment operations.

(3) Any pronounced depressions within the slope stake limits resulting after clearing, grubbing, scalping and topsoil removal shall be refilled with suitable material and compacted in accordance with Section 203 of the Standard Specifications prior to embankment operations.

(4) Prior to the construction of any embankment, the original ground surface within the limits of the slope stakes shall be leveled and the upper 6-inches shall be compacted in accordance with Section 203 of the Standard Specifications.

(5) Embankments shall be shaped to be well drained and shall be protected to prevent erosion.

(6) Loose depth of each embankment lift, final compacted depth, compaction method and compaction requirements shall be in accordance with Section

203 of the Standard Specifications.

C) Soil Subgrades

i) Subgrades shall be installed on foundations constructed in accordance with Section 2(A) and Section 2(B) of this policy and only the installation of all utilities and subsurface drains indicated on the approved construction documents to be located under the pavement are completed. Trench backfilling work of these installations shall be in accordance with the City of Carmel Trench Backfilling specifications.

ii) The subgrade shall be shaped to the required grade and sections, free from all ruts, corrugations, or other irregularities.

iii) The subgrade shall be uniformly prepared, compacted and approved in accordance with Sections 207.02, 207.03 and 207.04 of the Standard Specifications.

iv) Subgrades shall be inspected and approved by the Engineer before any aggregate base or hot mix asphalt pavements are constructed. A proofroll shall be conducted in accordance with Section 203.26 of the Standard Specifications. Unacceptable areas shall be corrected to the satisfaction of the Engineer before any aggregate base or hot mix asphalt paving operations commence.

v) At the discretion of the Engineer, Subgrade that has satisfactorily passed a proofroll, but remains uncovered for a period of 14 calendar days prior to placing stone or is subject to a measurable rain event prior to placing stone, shall be subject to additional proof rolls prior to placement of the Aggregate Base.

D) Existing Pavement

i) Milling of existing pavement surfaces shall be in accordance with Section 306.02, 306.03, 306.05, 306.07 and 306.08 of the Standard Specifications.

ii) Localized weak areas of the existing pavement section uncovered during the milling process shall be repaired in accordance with Section 304.02, 304.03, 304.05 or 305 of the Standard Specifications.

iii) Prior to opening milled areas to traffic, the milled areas shall be cleaned of all material, debris and dust resulting from the operation.

iv) Milled areas that remain open to traffic longer than those times stipulated in Section 306.05 of the Standard Specifications shall be subject to liquidated damages outlined in Section 306.05 of the Standard Specifications. The Contractor shall be responsible for payment of these liquidated damages.

3) Aggregate Bases

A) General

i) This work shall consist of placing a compacted aggregate on a prepared soil subgrade in accordance with Section 105.03 of the Standard Specifications.

ii) Aggregate Base materials shall be in accordance with Section 301.02 of the Standard Specifications.

iii) The material shall be obtained from a Certified Aggregate Producer in accordance with Section 917 of the Standard Specifications.

iv) The Aggregate Base material shall be handled and transported to, and on, the work site in a manner that minimizes segregation and moisture loss.

v) Aggregate Bases shall be constructed on prepared foundations and to thicknesses equal or greater than those indicated on the approved construction documents.

B) Temperature and Seasonal Limitations

i) The Aggregate Base shall be placed in accordance with the temperature limitations of Section 301.04 of the Standard Specifications.

ii) Frozen material shall not be placed.

iii) Aggregate Bases must be placed and pass proof roll prior to November 30 in order to allow paving in accordance with Section 4C(iv) of this policy.

C) Preparation

i) The prepared foundation shall be free from objectionable or foreign materials at the time of placement.

ii) The subgrade shall be subject to additional proof rolls in accordance with Section 203.26 of the Standard Specifications just prior to placing the Aggregate Base on the subgrade in accordance with Section 2C(v) of this policy. Unacceptable areas shall be corrected to the satisfaction of the Engineer before any Aggregate Base is placed.

D) Spreading and Finishing

i) The Aggregate Base shall be spread in accordance with Section 301.05 of the Standard Specifications.

ii) The Aggregate Base shall be compacted in accordance with Section 301.06 of the Standard Specifications.

iii) Subsequent paving courses shall be placed over the Aggregate Base within 14 calendar days. Aggregate Bases that lay exposed for a period of time greater than 14 calendar days or experience a measurable rain event prior to the placement of subsequent paving courses shall be subject to inspection and acceptance by the Engineer. At the discretion of the Engineer, additional proof rolls may be required.

4) Asphalt Pavement

A) General

i) This work shall consist of placing one or more courses of base, intermediate, or surface hot mix asphalt (HMA) mixtures on a prepared foundation in accordance with Section 105.03 of the Standard Specifications.

ii) HMA base, intermediate, or surface mixtures shall be constructed on prepared foundations and to thicknesses equal or greater than those indicated on the approved construction documents.

iii) Materials used in the production of the HMA mixtures shall be in accordance with Section 401.03 of the Standard Specifications.

iv) Equipment for HMA operations, including but not limited to production, hauling/transportation, laydown, compaction and miscellaneous/ancillary activity shall be in accordance with Section 409 of the Standard Specifications.

v) Installation of the full pavement section indicated on the approved construction documents for the entire area to be paved must be completed in the same paving season.

vi) Widening operations shall comply with the following:

(1) The outside face of the excavated area shall be left as nearly vertical as the nature of the material will permit and not wider than the outside limits of the widening section.

(2) The existing pavement adjacent to the widening area shall be sawcut to a clean edge.

(3) The subgrade in the widened area shall be compacted in accordance with this policy.

(4) Widening mixtures shall comply with the pavement section indicated on the approved construction documents.

(5) Compaction of the widening shall be in accordance with Section 304.05 of the Standard Specifications.

B) Preparation

i) The Aggregate Base shall be subject to additional proof rolls in accordance with Section 203.26 of the Standard Specifications just prior to placing the HMA courses in accordance with Section 3D(iii) of this policy. Unacceptable areas shall be corrected to the satisfaction of the Engineer before any paving operations commence.

ii) All displacement or rutting of the Aggregate Base shall be repaired prior to placing HMA mixtures.

iii) Milled asphalt surfaces shall be tacked in accordance with Section 406 of the Standard Specifications.

iv) Asphalt surfaces between courses shall be tacked in accordance with Section 406 of the Standard Specifications.

v) Contact surfaces of curbing, gutters, manholes, and other structures shall be tacked in accordance with Section 406 of the Standard Specifications.

vi) Surfaces on which a mixture is placed shall be free from objectionable or foreign materials at the time of placement.

vii) Tack Coat material shall be distributed with equipment meeting the requirements of Section 409.03(a) of the Standard Specifications.

C) Weather and Seasonal Limitations

i) HMA courses shall be placed when the ambient temperature and the temperature of the surface on which it is to be placed is 45°F (7°C) or above. The Engineer shall determine the ambient temperature. There shall be no provision for low temperature compaction allowed by Section 402.16 of the Standard Specifications.

ii) No mixture shall be placed on a frozen subgrade.

iii) Under no circumstances shall HMA mixtures be placed between December 15 and March 30.

iv) If a foundation that is to receive one or more courses of base, intermediate, or surface HMA mixtures is placed and determined to be an approved foundation by the City prior to November 30, placement of HMA courses will be allowed up to December 15, provided that the ambient and foundation surface temperature complies with the requirements of Section 4C(i) of this policy and the paving contractor pay for the services of a full time construction inspector and who shall act as an authorized agent of the Engineer. The Engineer shall select the construction inspector.

v) If the ambient and foundation surface temperature complies with the requirements of Section 4C(i) of this policy between April 1 and April 15, HMA course shall be allowed to be placed on an approved foundation provided that the paving contractor pay for the services of a full time construction inspector and who shall act as an authorized agent of the Engineer. The Engineer shall select the construction inspector.

vi) The Engineer reserves the right to suspend all paving operations if, in the opinion of the Engineer, that prevailing weather conditions and/or the condition of the Subgrade and/or the Aggregate Base may result in substandard HMA placement, spreading and finishing.

D) Spreading and Finishing

i) HMA courses shall be placed upon an approved foundation or other HMA course by means of laydown equipment in accordance with Section 409.03(c) of the Standard Specifications.

ii) Segregation or flushing or bleeding of HMA mixtures will not be permitted. Corrective action shall be taken to prevent continuation of these conditions. Segregated or flushed or bleeding HMA mixtures shall be removed if directed.

iii) All areas showing an excess or deficiency of binder shall be removed and replaced.

iv) All HMA mixtures that become loose and broken, mixed with dirt, or is in any way defective shall be removed and replaced.

E) Joints

i) Joints shall conform to the requirements of Section 401.15 of the Standard Specifications.

F) Compaction

i) The HMA mixture shall be compacted with equipment in accordance with Section 409.03(d) of the Standard Specifications immediately after the mixture has been spread and finished.

ii) Rollers shall not cause undue displacement, cracking, or shoving.

5) Inspections

A) All materials furnished and each part or detail of the work will be subject to inspection per Section 105.10 of the Standard Specifications for the purpose of ascertaining that the work is in substantial conformance with this policy and the approved construction documents.

B) The Contractor shall notify the Engineer a minimum of 48-hours in advance of commencing any work subject to the standards established by this policy.

C) The Contractor shall schedule proofrolls with the Engineer a minimum of 48-hours in advance of such proofrolls.

D) Sampling and testing of materials, equipment or construction work may be required at the expense of the Contractor at the discretion of the Engineer for the purpose of ascertaining that the work is in substantial conformance with this policy and the approved construction documents. Sampling and testing shall conform to the requirements of the sections of the Standard Specifications applicable to the portion of the work suspected to be non-compliant or as directed by the Engineer.

E) Where the Engineer determines that is necessary to confirm compliance with standards of quality or thickness, pavements shall be cored and tested at the expense of the Contractor. The average thicknesses of all courses must equal or exceed the minimum prescribed by the approved construction documents, and no single core shall show a deficiency greater than one half inch (1/2") in any course or total thickness from the pavement section indicated on the approved construction documents.

F) Such inspections shall not be construed to relieve the developers' engineers or contractors in any way from their obligations and responsibilities under their contracts. Specifically, inspection by the Engineer, or by retained engineers or testing agencies, shall not require them to assume responsibilities for the approved construction documents, for any misinterpretation of the approved construction documents by the contractors during construction, or for the means and methods of construction, nor for safety on the job site.

G) Work identified to not meet the requirements of this policy or the approved construction documents, unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner at the Contractor's

expense.

H) If the Contractor fails to comply forthwith with any order made under the provisions of this subsection, the Engineer will have authority to cause unacceptable work to be remedied or removed and replaced; to cause unauthorized work to be removed; and to deduct the costs from any monies due or to become due.

I) Work done contrary to instructions provided by the Engineer shall be considered unacceptable and subject to immediate removal and replacement in accordance with the instructions provided by the Engineer.

6) Acceptance

A) Before acceptance of any phase of construction, the Engineer shall determine if the improvements are in substantial compliance with this policy (except for any variances granted) and the approved construction documents

B) The Engineer may, at his sole discretion, accept work that is not in conformance with this policy provided that the work is bonded for a period greater than three years. The Engineer shall establish the extended bonding requirement.

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PROFESSIONAL ENGINEER
03/17/2021

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PERMIT SET 03/17/2021
TAC RESPONSE 1.0 04/15/2021
TAC RESPONSE 2.0 06/09/2021
TAC RESPONSE 3.0 07/26/2021
TAC RESPONSE 4.0 08/30/2021
TAC RESPONSE 5.0 09/21/2021

CITY OF CARMEL PAVING POLICY

C33

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