

DEVELOPMENT TEAM:

JEZERINAC GEERS
5640 FRANTZ ROAD
DUBLIN, OHIO 43017
614.766.0066
PROJECT CONTACT - ROBERT JOHNSON

KLEINGERS GROUP
350 WORTHINGTON ROAD, SUITE B
WESTERVILLE, OHIO 43082
614.882.4311
PROJECT CONTACT - JENNIFER KNITTLE

PRATER ENGINEERING & ASSOCIATES, INC.
6130 WILCOX RD
DUBLIN, OHIO 43016
614.766.4893
PROJECT CONTACT - MATT MUMAW

HOME2 HOTEL

ICH DUBLIN HOTEL, LLC

FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

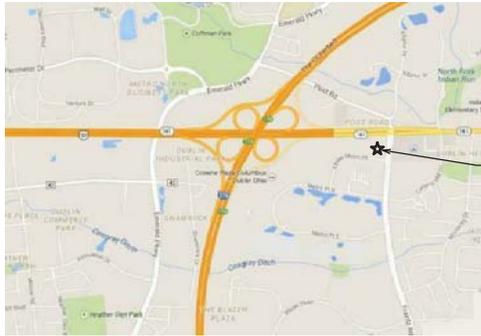
FINAL DEVELOPMENT SUBMISSION AND FINAL SITE SUBMISSION 7/17/15

OWNER:

HOME2 HOTEL
555 METRO PLACE NORTH, SUITE 600
DUBLIN, OH 43017
614.335.2020
PROJECT CONTACT - NELSON YODER

ARCHITECT:

OHM ADVISORS
101 MILL STREET, SUITE 200
GAHANNA, OH 43230
614.418.0600
PROJECT CONTACT - MELISSA SPIRES



AREA LOCATION MAP



PROJECT LOCATION MAP



GENERAL NOTES:

- GENERAL NOTES APPLY TO ALL DRAWINGS.
- DO NOT SCALE DRAWINGS. ANY DIMENSIONAL INFORMATION REQUIRED WHICH IS NOT INDICATED ON DRAWING DIMENSION STRINGS SHALL BE OBTAINED FROM THE ARCHITECT.
- DIMENSIONS SHOWN ARE FINISH SURFACE OF EXISTING CONSTRUCTION, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS (I.E. EXISTING MATERIALS, FRAMING MEMBER SIZES AND LOCATIONS, METHODS OF CONSTRUCTION). IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL PAY ALL PERMIT FEES.
- CONTRACTOR SHALL MAINTAIN THE IMMEDIATE CONSTRUCTION SITE IN A SECURE, CLEAN AND SAFE MANNER.
- PROTECTION: CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR TAKING ALL STEPS NECESSARY TO PROTECT THE PUBLIC FROM INJURY AND ADJACENT PROPERTY DAMAGES DURING CONSTRUCTION AS REQUIRED BY LOCAL CODES.
- REPAIR ALL EXISTING CONSTRUCTION AFFECTED BY NEW WORK TO ITS ORIGINAL CONDITION.
- PLANS HAVE BEEN SEALED FOR ALL TRADES INDICATED AT RIGHT. OHM ADVISORS ASSUMES THAT THE PROJECT OWNER HAS PROCURED PROFESSIONAL ARCHITECTURAL/ENGINEERING SERVICES TO DESIGN FOR TRADES NOT SHOWN.

HOTEL ROOM MATRIX						
	SINGLES	DOUBLES	KINGS	1 BEDROOM	ADA UNIT	TOTAL
FLOOR 1	7	12	9	2	3*	31
FLOOR 2	21	12	1	2	4*	36
FLOOR 3	21	12	1	2	4*	36
FLOOR 4	21	12	1	2	4*	36
TOTAL	70	48	3	8	**	OVERALL:129

* ADA UNITS ARE INCLUDED WITHIN EACH ROOM COUNT. SEE PLAN

SITE DATA	
TOTAL PROJECT LIMITS AREA	—
HOTEL ROOMSKEY(S)	129 ROOMSKEYS
GROSS DENSITY	—
REQUIRED PARKING	131
MAX ALLOWABLE PARKING	135
PROVIDED PARKING	17
SHARED PARKING	1
ELECTRIC CHARGING SPACES	5
ADA ACCESSIBLE PARKING	12
TOTAL PARKING PROVIDED	35
REQUIRED BICYCLE PARKING	11
PROVIDED BICYCLE PARKING	12

CORRIDOR BUILDING TYPE	
UNITS:	AREA:
FIRST FLOOR - 21 UNITS	FIRST FLOOR - 21,360 SF
SECOND FLOOR - 36 UNITS	SECOND FLOOR - 19,707 SF
THIRD FLOOR - 36 UNITS	THIRD FLOOR - 19,707 SF
FOURTH FLOOR - 36 UNITS	FOURTH FLOOR - 19,707 SF
TOTAL UNITS - 129 UNITS	TOTAL AREA - 80,481 SF

PARKING CALCULATION PER 153.065 (TABLE 153.065-A)	
HOTEL	2 PER 3 GUESTROOMS
	129 ROOMS = 86 SPACES
	PLUS 4 PER 1,000 SQFT ACCESSORY USE AREA
	2410 SQFT = 10 SPACES
OFFICE	2,5/1,000 SQFT
	14,000 SQFT = 35 SPACES
TOTAL	131 SPACES REQUIRED

HOME2 - OPEN SPACE CALCULATION				
	AREA (SF)	REQUIREMENT	MINIMUM REQUIRED OPEN AREA	PROVIDED OPEN AREA
COMMERCIAL	—	1 SF PER 50 SF OF COMMERCIAL	—	—
BUILDING AREA	80,481	TOTAL AREA / 50	1,610 SF (0.037 ACRE)	1,900 SF (0.044 ACRE)
FUTURE OFFICE	14,000	TOTAL AREA / 50	280 SF (0.006 ACRE)	1,900 SF (0.044 ACRE)
TOTAL	94,481	—	1890 SF (0.043 ACRE)	—

* TO BE LOCATED WITHIN 660'-0" OF MAIN ENTRANCE

DRAWING INDEX:

TITLE SHEET

- CML TITLE SHEET
- C100 GENERAL NOTES
- C102 DETAILS
- C103 EXISTING CONDITIONS
- C104 DEMO SHEET
- C105 SITE PLAN
- C106 UTILITY PLAN
- C107 STORM SEWER PROFILES
- C108 GRADING PLAN
- C109 WATER QUALITY STRUCTURE-DOWNSTREAM DEFENDER DETAIL
- C110 UNDERGROUND DETENTION DETAIL(SC-740)
- C111 UNDERGROUND DETENTION DETAIL(SC-310)
- C112 EROSION CONTROL NOTES AND DETAILS
- C113 EROSION CONTROL NOTES AND DETAILS
- C114 EROSION CONTROL-SITE PLAN

I Certify That The Civil/Structural Plans Were Prepared Under My Direct Supervision

- LANDSCAPE
- L000 OVERALL SITE PLAN
- L100 MATERIALS ENLARGEMENT
- L200 OVERALL LANDSCAPE PLAN
- L201 LANDSCAPE ENLARGEMENT
- L300 SITE DETAILS
- L301 SITE DETAILS
- L400 TREE SURVEY PLAN

I Certify That The Architectural Plans Were Prepared Under My Direct Supervision

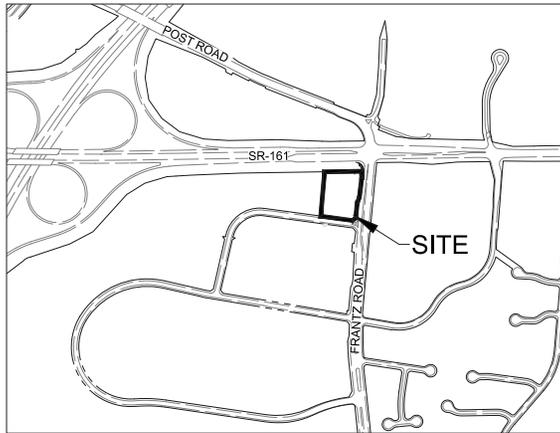
- ARCHITECTURAL
- A0.01 PROPOSED SITE PLAN
- A1.01 FIRST FLOOR PLAN
- A1.02 SECOND (TYPICAL) FLOOR PLAN
- A1.03 ROOF PLAN
- A2.01 EXTERIOR ELEVATIONS
- A2.02 EXTERIOR ELEVATIONS
- A2.03 TRANSPARENCY CALCULATIONS
- A2.04 TRANSPARENCY CALCULATIONS
- A2.05 MATERIAL CALCULATIONS
- A2.06 MATERIAL CALCULATIONS
- A3.01 BUILDING SECTIONS
- A3.02 WALL SECTIONS
- A3.10 DUMPSTER ENCLOSURE
- A4.01 ENLARGED PLANS - STUDIO KING
- A4.02 ENLARGED PLANS - STUDIO DOUBLE
- A4.03 ENLARGED PLANS - STUDIO KING ADA
- A4.04 ENLARGED PLANS - KING BEDROOM
- A4.05 ENLARGED PLANS - KING BEDROOM ADA
- A4.06 ENLARGED LOBBY CONSTRUCTION FLOOR PLAN
- A4.07 ENLARGED POOL CONSTRUCTION & RCP PLANS

PROJECT DATA

- 153.064(C)-ZONED INFORMATION BSD COMMERCIAL DISTRICT PER 153.057
- USE TYPE IS HOTEL PER 153.059
- BUILDING TYPE IS CORRIDOR BUILDINGS PER 153.062(0)(9)
- HOTEL ROOMSKEY(S): 129 ROOMSKEYS
- GROSS DENSITY: PER CIVIL ENGINEERS
- 153.064(C)-OPEN SPACE CALCULATIONS
- COMMERCIAL: 1 SQFT/50 SQFT
- TO BE LOCATED WITHIN 660' OF MAIN ENTRANCE
- BUILDING SQUARE FOOT: 80,481
- REQUIRED: 1,890
- PROVIDED: 1,900
- 154.002 - BUILDING TYPES PER TABLE 153.062(A)
- 153.062(0)(5) - CORRIDOR BUILDINGS
- SEE ELEVATIONS & PLANS FOR BUILDING TYPE REQUIREMENTS
- 153.065(B)-
- REQUIRED PARKING: 86 MIN. 135 MAX
- PROVIDED PARKING: 122 SPACES
- SHARED PARKING: 17 SPACES
- REQUIRED BICYCLE PARKING: 1-10 REQUIRED VEHICULAR SPACES: 10 SPACES
- REQUIRED BICYCLE PARKING: 12 SPACES

REQUESTED WAIVERS

- 153.060(C)(1)(a) - INTERCONNECTED STREET PATTERN
- 153.062(B)(3) - BUILDING TYPE
- 153.062(D)(4) - TOWER QUANTITY
- 153.062(D)(4) - TOWER HEIGHT
- 153.062(N)(4)(3) - BLANK WALLS - WEST ELEVATION
- 153.062(O)(5) - ENTRANCE DESIGN - PRIMARY ENTRANCE NOT ON PRIMARY STREET FRONTAGE
- 153.062(O)(5)(b) - STREET FACADE GROUND STORY TRANSPARENCY - NORTH ELEVATION
- 153.062(O)(5)(b) - STREET FACADE UPPER STORY TRANSPARENCY - NORTH & WEST ELEVATIONS
- 153.062(O)(5)(c) - NON-STREET FACADE UPPER STORY TRANSPARENCY - WEST ELEVATION



LOCATION MAP
1"=500'

CITY OF DUBLIN CORPORATION LIMITS

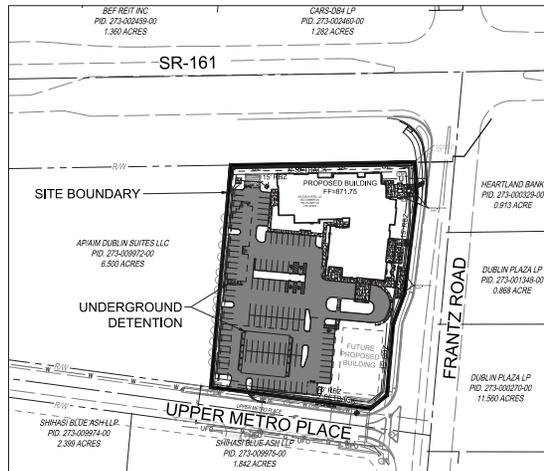


HOME2 HOTEL

5000 UPPER METRO PLACE

DUBLIN, OHIO 43017

PID:273-009971-00



INDEX MAP
1"=100'



BENCHMARKS

BM #1 - FRANKLIN COUNTY MONUMENT V21 (NAVD 88)

BRASS PLUG IN CONCRETE MONUMENT AT THE SOUTHWEST CORNER OF S.R. 161 AND FRANTZ ROAD, IN FRONT OF THE OHIO FEDERAL BAND, 63.8 FEET SOUTH OF THE CENTERLINE OF THE S.R. 161 EASTBOUND LANES, 16.2 FEET EAST OF THE BACK OF CURB OF FRANTZ ROAD, 12.7 FEET SOUTHWEST OF A CONCRETE BASE FOR A BANK SIGN, 9 INCHES BELOW THE GROUND.

ELEVATION = 864.965

BM #2

ARROW BOLT ON FIRE HYDRANT ON THE NORTH SIDE OF THE INTERSECTION OF FRANTZ ROAD AND UPPER METRO PLACE

ELEVATION = 807.98

STORMWATER QUANTITY AND QUALITY:

DETENTION VOLUME REQUIRED = 20,110 CF
DETENTION VOLUME PROVIDED = 25,715 CF

MM-20 IS A STORMWATER QUALITY BMP AND IS AN INTEGRAL PART OF THE PRIVATE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THIS STORMWATER QUANTITY DEVICE IS PERPETUAL, BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM.

PROJECT DESCRIPTION

THE SITE HAS AN EXISTING BUILDING, PARKING LOT, AND UTILITY SERVICES. THE BUILDING WILL BE REMOVED AS WELL AS THE PARKING LOT. THE UTILITY SERVICES WILL BE REMOVED ON SITE THEN CUT AND CAPPED AT THE RIGHT-OF-WAY. THE PROPOSED SITE WILL BE A NEW HOTEL THAT INCLUDES NEW PARKING LOT AREA, NEW BUILDING, UTILITY SERVICES TO THE HOTEL, STORM SEWER SYSTEM, SANITARY SERVICES, WATER SERVICE, AND ROOM FOR A FUTURE PROPOSED BUILDING

STANDARD DRAWINGS

CITY OF DUBLIN	CITY OF COLUMBUS
RD-05	AA-S133B
	AA-S145
	2319, TYPE A
	2319, TYPE C

SURVEY NOTES

1) BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM, (OSPC), OHIO SOUTH ZONE, BASED ON A GPS SURVEY UTILIZING CORS STATION "COLB" AND MONUMENT "SE". THE PROJECT COORDINATES ARE BASED ON OSPC AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.000029859 APPLIED AT BASE POINT N 764.900.00 E 1,793,500.00 . GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.



KYLE L. WEBER, P.E.
REGISTERED PROFESSIONAL ENGINEER No.73557

DATE

DEVELOPER

ICH DUBLIN HOTEL, LLC
565 METRO PLACE NORTH, SUITE 600
DUBLIN, OHIO 43017
PH: 614-335-2020
FAX: 614-862-8191

ARCHITECT

OHM ADVISORS
580 NORTH FOURTH STREET, SUITE 630
COLUMBUS, OH 43215
PH: 614-418-8921

SITE ENGINEER

THE KLEINGERS GROUP
350 WORTHINGTON ROAD, SUITE B
WESTERVILLE, OH 43082
PH: 614-862-4311
FAX: 614-862-4479

INDEX OF SHEETS

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- C110 - UNDERGROUND DETENTION DETAIL (SC-740)
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- C112 - EROSION CONTROL NOTES
- C113 - EROSION CONTROL NOTES AND DETAILS
- C114 - EROSION CONTROL SITE PLAN

APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

APPROVED:

CITY ENGINEER, CITY OF DUBLIN, OHIO

DATE

DIRECTOR OF LAND USE & LONG RANGE PLANNING, CITY OF DUBLIN, OHIO

DATE

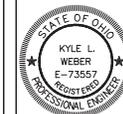


CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd, Ste B
Westerville, OH 43082
614.862.4311



ARCHITECTS ENGINEERS PLANNERS
300 North Fourth Street
Suite 600
COLUMBUS, OH 43215
614-418-8921

OHM-ADVISORS.COM



SCALE

DATE

PROJECT

NO.

DATE

BY

DATE

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

TITLE SHEET

C100

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GENERAL NOTES

- 1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO ARE REFERRED TO AS STANDARD SPECIFICATIONS. SHALL COVER ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY. AS REQUIRED BY THE CITY ENGINEER, ITEM NUMBERS LISTED HEREIN TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
2. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN OUTSIDE OF CONTRACT DISTRICTS.
3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO AND PERMITS FROM THE CITY OF COLUMBUS AND THE CITY OF DUBLIN.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL BESE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROCEDURES IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR COVERED SPACES PER 9 CFR 1910.66.
6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE RECEIVING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE ENGINEER ENGINEERING THAT DOCUMENTS VERTICAL ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SIGNED THE CONSTRUCTION PERMITS.
7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE INSTRUMENTS OR MARKERS. IN CASES OF WILFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION, RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
9. NON-RUBBER TIRE VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
11. TRACKING OR DRIVING ON, OR ON OR OFF PUBLIC STREETS, RESIDUAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.04 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. THE CONTRACTOR SHALL REMOVE AND MAINTAIN DIRT, DEBRIS OR SPLASH. THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS. THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
13. ALL SOILS, LANDSCAPING, STRUCTURES OR OTHER APPEARANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL FILL OR EXCESS SOIL FROM EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR NOTED THAT INSPECTION HAS NOT BEEN APPROVED FOR INSTALLATION. BACKFILL WITHIN CONCRETE STRUCTURES (DRAINAGES, DITCHES, ETC.) SHALL BE CONSTRUCTED WITHIN CONCRETE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS FOR FLEXIBLE CONSTRUCTION ACCORDING TO THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:
CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS
1900 EAST 17TH AVENUE
COLUMBUS, OH 43215

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:
DIVISION OF ENGINEERING
CITY OF DUBLIN
5200 SHER BRIDGE ROAD
DUBLIN, OH 43016

- 18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR COVER PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSURE OF THE TRENCHING OPERATION.
19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER OR NOT THEY SHOW UP ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH URBILITY FENCING PLACED AT A MINIMUM 15 FEET FROM THE TREE TRUNK, THREE (3) INCHES OR GREATER AT OSH (DIAMETER MEASURED AT 4.5 FEET) FROM THE TREE TRUNK. TREES TO BE REMOVED SHALL BE REMOVED WITHIN THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
20. MAINT SHALL BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PRESUMABLE JAR BAR DEVICES IS NOT PERMITTED TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL. ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
22. PAVEMENT SHALL BE CUT IN NEXT STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE COMPLETED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 144 (D) AND A APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPAIRACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROWN BRANCHES AS NEEDED.
24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
25. ALL INLETS SHALL BE CHANNELIZED.
26. PARK AREAS SHALL BE PRE-GRASSED AND SEEDED WITH THE FOLLOWING MIXTURE:
APPROVED IDENTICITY BLUEGRASS: 40% WEIGHT (2 VARIETIES IN EQUAL PARTS)
APPROVED PERENNIAL RYE: 50% WEIGHT (2 VARIETIES IN EQUAL PARTS)
SEMINARINA RYE: 80%
APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE PERFORMED WITH A SQUARE POST AND/OR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT 712-20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE OVERLAYS ON A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN COLOR AND CONFORM WITH THE 3/8" SQUARE POST AND/OR BASE. INSTALLATION REQUIREMENTS OF ODOT 714-21.

UTILITIES

- 1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:
AEP
5215 SHER BRIDGE RD
DUBLIN, OH 43016 (800) 672-2231
LS AVONICS SYSTEMS
1155 SCHROCK CT # 800
COLUMBUS, OH 43209 (614) 825-2001
AT&T
111 NORTH 4TH STREET
COLUMBUS, OH 43012 (614) 223-7276
QDOT
160 W BROAD ST
COLUMBUS, OH 43222 (614) 275-1300
COLUMBIA GAS
500 WEST OGDONALE BLVD.
COLUMBUS, OH 43012 (614) 460-2169
TW TELECOM INC
420 TULLER RD
DUBLIN, OH 43015 (614) 793-8246
CITY OF COLUMBUS
910 DUBLIN ROAD
COLUMBUS, OH 43215 (614) 835-6820
TIME WARNER
1200 DUBLIN ROAD
COLUMBUS, OH 43012 (614) 481-5262
CITY OF DUBLIN
5200 SHER BRIDGE PARKWAY
DUBLIN, OH 43016 (614) 410-4400
VOW CABLE
3075 CORPORATE DR
COLUMBUS, OH 43221 (614) 964-6600
OH COMMUNICATIONS
4408 EASTON WAY #102
COLUMBUS, OH 43219 (614) 693-3200

- 2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-832-7764), PRODUCERS UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-487-5498), AND TO OWNERS OF UNDERGROUND UTILITIES WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
3. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE AGENCY OR OWNERS OF UNDERGROUND UTILITIES. WITHIN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY ENGINEER SHALL BE RESPONSIBLE FOR THE AGENCY OR OWNERS OF UNDERGROUND UTILITIES. WITHIN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THE UNDERGROUND UTILITIES.
4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING AT 416-847-7262. TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

- 1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CMUTCD), CURRENT EDITION.
2. ALL TRAFFIC LINES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 5:00 AM AND FROM 4:30 PM TO 6:00 PM UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. AT ALL OTHER TIMES, THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE CITY ENGINEER. SIGNALS SHALL BE PRESENT WHENEVER ONE-WAY OR TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE OFFICERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
3. IF THE CITY ENGINEER ESTABLISHES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ADVISE UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
4. STEADY-BURNING, TYPE T-1 LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
5. ACCESS FROM PUBLIC ROADSWAYS TO ALL ADDING PROPERTIES FOR EXISTING RESIDENCES OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

- 1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO EPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY INCLUDE COVERAGE UNDER THE NATIONAL POLLUTION DISCHARGE ELIMINATION ACT (NPDES). A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER. EROSION AND SEDIMENT CONTROL PLAN HAS NOT BEEN ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL MEASURES SHALL BE REVIEWED BY THE CITY OF DUBLIN DIVISION OF ENGINEERING AND THE CITY ENGINEER. ANNUAL, INSTANTANEOUS, NPDES STORMWATER DISCHARGE PERMIT SHALL BE OBTAINED FROM THE OHIO EPA.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERCOURSES, DITCHES, AND CATCH BASINS.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SALT TRENCHES, FILTER STRIPS, AGROGRASS, TROPICAL GRASS, OR OTHER EROSION CONTROL MEASURES.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSIDERING THE EROSION CONTROL PLAN.
5. DISTURBED AREAS THAT WILL REMAIN UNCOVERED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITH SEVEN GALLONS PER 1000 SQ YD OF SEED. SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE COMPLETION OF THE VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GRASS COVER.

BLASTING (IF PERMITTED)

- 1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORT UPON COMPLETION OF BLASTING TO THE CITY ENGINEER. THE OWNER OF THE PROPERTY TO BE EXCAVATED SHALL BE NOTIFIED BY THE CITY ENGINEER OF THE CONSTRUCTION DRAWINGS.

SANITARY SEWERS

- 1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN ODEPA PERMIT TO INSTALL, AND UPON RECEIVING A SANITARY SEWER CONNECTION FROM THE DESIGN ENGINEER STATING THAT PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS AND ALL OF THE CONDITIONS OF THE PTH HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FROM THE CITY ENGINEER AND THE SANITARY SEWER DEPARTMENT.
2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-APPROVED MESSAGES/PAPERBOARD (TEN STATES)-RECOMMENDED STANDARDS FOR WASTEWATER PIPING.
3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE: REINFORCED CONCRETE PIPE ASTM C76 CLASS 3; 30" OR 36" SLOPER PIPE ASTM D3035; 36" PIPE FOR LARGH DIAMETER SHALL BE REINFORCED CONCRETE PIPE PVE ASTM D3034; 36" OR 42" PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATIONS SHALL BE AS SHOWN ON THE CITY OF DUBLIN CONSTRUCTION INSPECTION DIVISION DRAWINGS WITH QUALITY CONTROL REQUIREMENTS.
4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWERS WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.
5. ALL IN-PIPE AND TIE CONNECTIONS TO CONCRETE SEWER, 18" OR LARGER, SHALL BE EITHER KORN-TREE OR KORN-BASE CONNECTIONS. CONNECTIONS TO CONCRETE SEWER, 18" OR LARGER, SHALL BE EITHER KORN-TREE OR KORN-BASE CONNECTIONS.
6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOTH TOP AND BOTTOM LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.1 OF THE STANDARD SPECIFICATIONS.
9. TEMPORARY ALLIHEADS SHALL BE PLACED ON PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE DEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALLIHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER LINES SHALL BE SUBJECT TO AND PASS INFILTRATION OR EXPIRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER.
11. FOR SANITARY SEWER INFILTRATION LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER 1000 LINEAL FEET OF 24 HOUR PER TEST AT 24 HOURS PER TEST AT 24 HOURS PER TEST.
12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THE WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
13. HOBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 91.01 OF THE DUBLIN CODE OF ORDINANCES.
15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY FROM SANITARY SEWERS AND STORM SEWERS. TO THE GREATEST EXTENT PRACTICABLE, WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, THE SANITARY SEWER SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE COMPACTED GRANULAR MATERIAL OR DUCTILE IRON PIPE MATERIAL.
16. SEWER RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM THE TOP OF THE PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 3 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICES IS INTENDED.
17. WHERE SERVICE RISERS ARE REQUIRED, THE RISERS SHALL BE MANHOLE SIZES AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. AS THE WORK PROGRESSES, RISERS ARE TO BE INSTALLED, APPROVED WOOD POLES MADE OF 2 INCHES X 3 INCHES UNLESS ALL WIRE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED, WOOD POLES SHALL BE REMOVE BEFORE THE END OF THE CITY. THE COST OF THESE RISERS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
18. BEST PRACTICES FOR SANITARY SEWER LINES SHALL BE SUBJECT TO AND PASS INFILTRATION OR EXPIRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER.
19. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATER TIGHT. MANHOLES SHALL BE NEATLY COVERED. THE SEWER PIPE BARRELS AT THE SPINDLE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN A MINIMUM 1/2" GAP BETWEEN THE CONNECTION AT THE SPINDLE AND THE INSIDE OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL. THIS SPINDLE SHALL BE FLEXIBLE JOINT FILLER, ANY METAL THAT IS USED SHALL BE 300 PSI MINIMUM TENSILE STRENGTH AND ANY OF THE FOLLOWING TYPES:
A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
1) HORIZONTAL, AS MANUFACTURED BY NATURAL.
2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
B. RUBBER GASKET COMPRESSION.
1) PRESS WEDGE BA AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
2) DURAS SEAL AS MANUFACTURED BY DURAS, INC.
3) LIN-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

- 1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS.
2. ALL WATER LINES SHALL BE INSTALLED IN SHALLOW AREAS. THE CITY OF COLUMBUS STANDARD SPECIFICATIONS, SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION CASEY PART I (MATERIALS) FOR FLOORING SECTION 3 AND FOR CONCRETE VESSELS AND FIRE HYDRANTS SECTION 7. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DEFLECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DEFLECTED. TO THE CITY OF COLUMBUS DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DEFLECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
3. THE CONTRACTOR SHALL CONTACT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR FIRE HYDRANTS.
4. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PIPES) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DEFLECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER.
5. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 72 HOURS BEFORE TAPPING OR EXISTING WATER LINES.
6. ALL WATER MAIN STATIONINGS SHALL BE BASED ON STREET CENTERLINE STATIONING.
7. ALL BOLLARDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
8. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
9. WATER METERS SHALL BE INSTALLED BEFORE STRUCTURE UNLESS A METERS PER INSTALLATION ON APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METERS MUST CONFORM TO STANDARD DRAWINGS L710, AAS FOR 3/4" THROUGH 1 1/2" METERS OR L4011, A, A, C, C, C FOR 1 1/2" OR LARGER METERS.
10. WATER TOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT FROM THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
11. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE.
12. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
13. TWO 1/2" TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWER

- 1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDING AND HYDRO-MULCHED ACCORDING TO ITEMS 201 AND 609 OF THE STANDARD SPECIFICATIONS.
2. CONCRETE STORM SEWER CONNECTIONS TO PUBLIC STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS 40 FOR PIPE DIAMETERS 12 INCHES TO 18 INCHES, CLASS 40 FOR 18 INCHES TO 24 INCHES, AND 7 INCHES AND LARGER PIPE SHALL BE CLASS B UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
3. HEADWALLS AND ENDS WALLS SHALL BE REQUIRED AT ALL STORM SEWER RISERS OR UTILITY TAPS AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDS WALLS.
4. STORM TRENCHES OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE CYCLOPE SAFER GASKETS. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURBSTOP AND CATCH BASIN GASKETS SHALL POLICE ENGRAVED LETTERING. "DUMP NO WASTE" DRAINS TO RIVER.
5. STORM SEWER UTILITY LINES GREATER THAN 18 INCHES DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MATERIAL DELIVERY

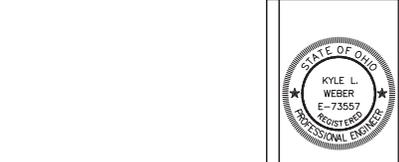
- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO THE LOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND ALLOW THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION AT APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
2. BEFORE RELOCATING MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

- 1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
2. BEFORE THE FINAL ESTIMATES ARE PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SAME VALUE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.



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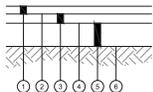
STATE OF OHIO
KYLE L. WEBER
No. 73557
Professional Engineer

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANKLIN ROAD & STATE ROUTE 101, DUBLIN, OHIO



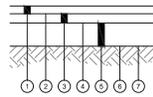
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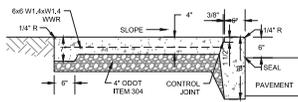
- 1 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- 2 ODOT ITEM 407 TACK COAT, APPLY 1/8" TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 3 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- 4 ODOT ITEM 408 PRIME COAT, APPLIED AT 0.10 GAL/SY
- 5 6" ODOT ITEM 304 AGGREGATE BASE
- 6 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL
NTS



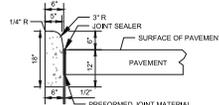
- 1 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- 2 ODOT ITEM 407 TACK COAT, APPLY 1/8" TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 3 4" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- 4 ODOT ITEM 408 PRIME COAT, APPLIED AT 0.10 GAL/SY
- 5 6" ODOT ITEM 304 AGGREGATE BASE
- 6 WOVEN GEOTEXTILE FABRIC, ODOT ITEM 712.09 TYPE D
- 7 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY ASPHALT PAVEMENT DETAIL
NTS

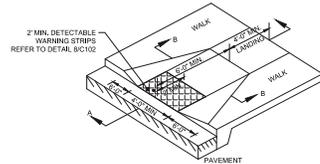


- NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXTERIOR WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT. EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
 2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM AND AT 6' BEHIND INTEGRAL CURB. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOoled.
 3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
 4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE WALK SURFACE.

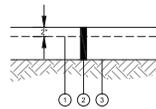
EXTERIOR CONCRETE SLAB WALK DETAIL
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BARRIER CURB DETAIL
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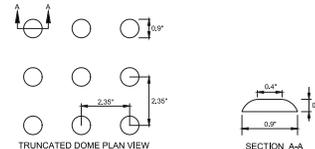


CURB RAMP DETAIL
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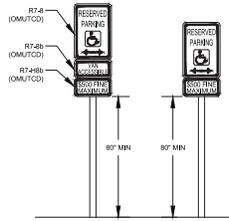
- 1 6X8 WALK WELD WIRE REINFORCEMENT
- 2 6" ODOT ITEM 402 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- 3 SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

HEAVY DUTY CONCRETE PAVEMENT DETAIL
NTS



- NOTES:
1. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT OR DARK OR DARK ON LIGHT.

DETECTABLE WARNING DETAIL
NTS



- GENERAL NOTES:
1. 1/2" TYPE FLANGED STEEL SIGN POST SET IN EARTH OR OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3/4" IF WITHIN PAVEMENT.

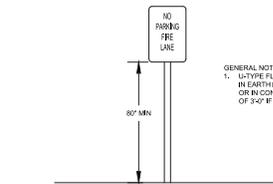
- R7-4 NOTES:
1. 12"x18"x1/8" GA. STEEL SIGN
 2. GREEN LETTERING, BORDER, AND ARROW WITH WHITE BACKGROUND, WHITE HANDICAP SYMBOL IN BLUE BOX.

- R7-4B NOTES:
1. 12"x18"x1/8" GA. STEEL SIGN
 2. GREEN LETTERING AND BORDER WITH BLUE BACKGROUND.

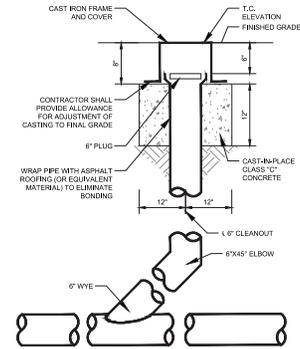
- R7-4Bb NOTES:
1. 12"x18"x1/8" GA. STEEL SIGN
 2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

- NOTE:
1. ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "AN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.
 2. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE.

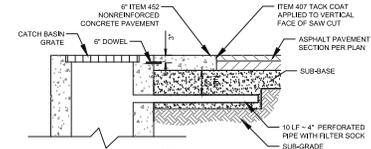
ACCESSIBLE PARKING SIGN DETAIL
NTS



NO PARKING FIRE LANE SIGN DETAIL (R7-1)
NTS



CLEANOUT DETAIL
NTS



FINGER DRAIN AND CONCRETE APRON DETAIL
NTS

- NOTE:
1. INSTALL FINGER DRAINS AT ALL CATCH BASINS IN PAVEMENT.

OHM
ARCHITECTS ENGINEERS PLANNERS
300 North Fourth Street
Suite 600
Columbus, OH 43215
(614) 454-0021
OHM-ADVISORS.COM

STATE OF OHIO
KYLE L. WEBER
E-73557
REGISTERED PROFESSIONAL ENGINEER

SCALE: ARCHITECT'S PREPARED BY: DATE: CHECKED BY: DATE: DESIGNED BY: DATE: DRAWN BY: DATE: PLOTTED BY: DATE: PLOT DATE:

HOME2 HOTEL
101 DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANTZ ROAD & STATE ROUTE 101, DUBLIN, OHIO

DETAILS

THE KLEINGERS GROUP
CIVIL ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Worthington Rd. Ste B
Weston, OH 43082
(614) 862-2311

OHIO Utilities Protection Services
OHIO POWER SERVICE CORPORATION

C102

LEGAL DESCRIPTION

Situated in the State of Ohio, County of Franklin, and in the City of Dublin, being Lot Number One (1) in UPPER METRO PLACE as the same is numbered and delineated upon the recorded plat thereof of record in Plat Book 90 page 94, Recorder's Office, Franklin County, Ohio.

LESS AND EXCEPTING THEREFROM THE FOLLOWING acre tract as known as conveyed by Chuang Development, LLC in the State of Ohio, Department of Transportation Instrument No. 201409151272

Situated in the State of Ohio, Franklin County, City of Dublin, Virginia Military Survey Number 2542, part of Lot 1 of Upper Metro Place as recorded in Plat Book 90, page 94 and conveyed to Chuang Development, LLC, an Ohio limited liability company as recorded in Instrument Number 20100420051763, lying on the right side of the centerline of survey of US-33 (SR-161) and more particularly described as follows:

Commencing in an iron pin set in the northeastern corner of said Lot 1, also being the intersection of the existing southerly right of way line of US-33 (SR-161), Columbus-Marysville Road, right of way varies and the existing westerly right of way line of Frantz Road (right of way varies), the southerly line of a parcel of land conveyed to the State of Ohio in Common Pleas Case Number 231728, and the westerly line of a parcel of land conveyed to the City of Dublin in Instrument Number 1998020219370, and point being 145.00 feet right of Station 206+81.85, and being the POINT OF BEGINNING for the parcel of land herein described.

Thence, in the westerly line of said Lot 1, the existing westerly right of way line of said Frantz Road and the westerly line of said City of Dublin parcel, South 7° 07' 18" West a distance of 53.00 feet to an iron pin set 197.45 feet right of Station 206+74.42.

Thence, crossing said Lot 1, North 3° 44' 27" West a distance of 52.54 feet to an iron pin set in the northerly line of said Lot 1, the existing southerly right of way line of said US-33 and the southerly line of said State of Ohio parcel, North 89° 04' 04" East a distance of 10.00 feet to the POINT OF BEGINNING and containing 0.008 acre of land, more or less, none of which falls within present roadway occupied. The above described parcel is located within Franklin County Auditor's Parcel Number 273-000971.

The Base of Bearing is Grid North of the Ohio State Plane Coordinate System, South Zone, NAD83 (2011) as determined from GPS observations, Alum Creek, OH2006 (DL6453), Union County (D1688) and Madison County (D2223) base stations were used in determining the grid bearing and establishing South 89° 04' 04" East as the centerline of US-33 (SR-161, Columbus-Marysville Road).

All stations referred to herein are from the centerline of Existing Right of Way of US-33 (SR-161) as shown on 0001 right of way plat FRA-270-17-28, recorded at the Franklin County Recorder's Office in Plat Book _____, page _____.

All iron pins set are 5/8 inch rebar, 3/8 inches long, with a cap stamped "BARRPREVOST".

This description was prepared by Amy Benickson (Ohio Professional Surveyor Number 65711) Barb & Prevost and is based on survey field work performed under her direction from May, 2013 through October, 2013.

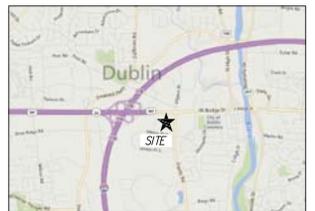
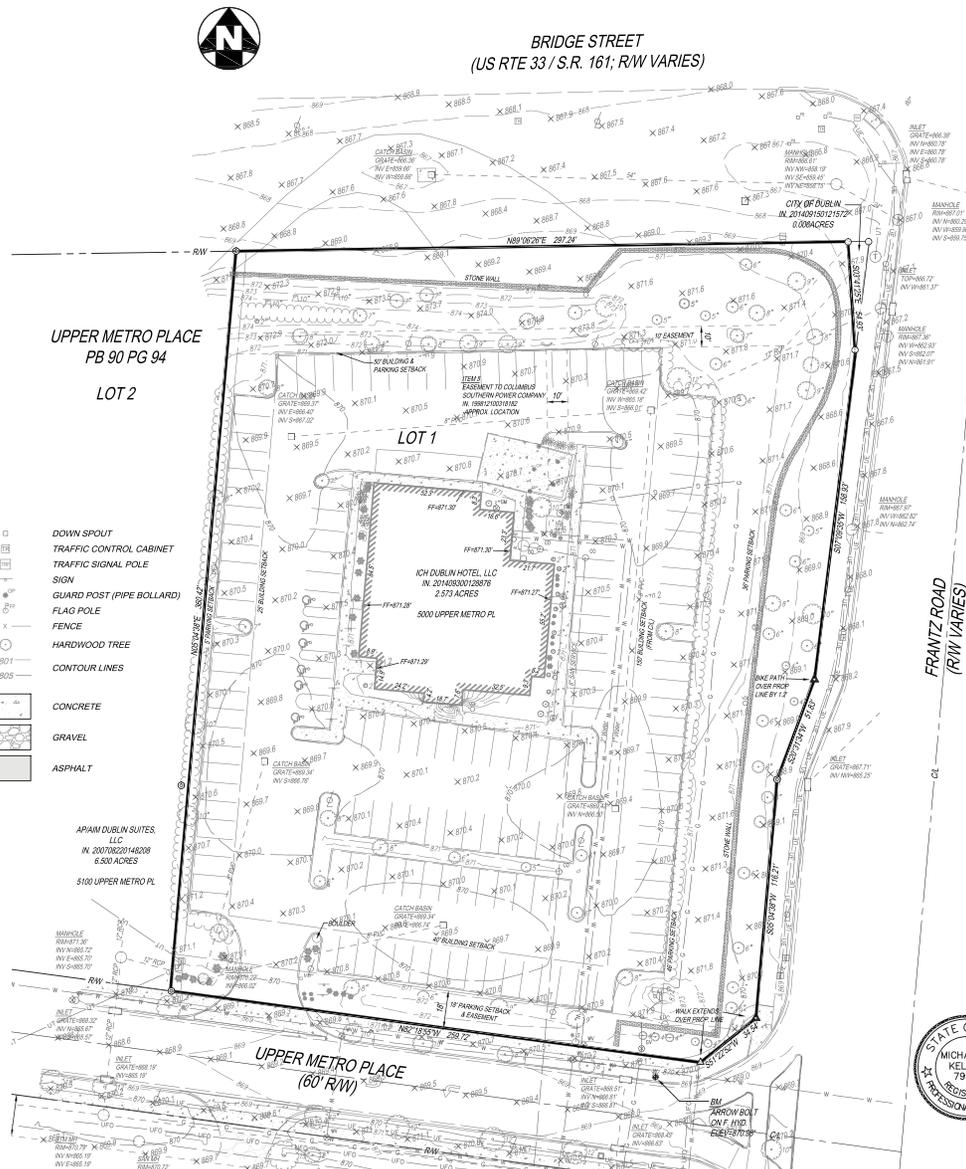
LEGEND

- | | | | |
|---|--------------------------|---|--------------------------|
| ● | 5/8" CAPPED IRON PIN SET | ⊕ | TELEPHONE MANHOLE |
| ○ | 5/8" IRON PIN FOUND | ⊖ | TELEPHONE PEDESTAL |
| ▲ | 1" IRON PIPE FOUND | — | GAS MAIN |
| ■ | NAIL SET | — | GAS VALVE |
| ⊕ | NAIL FOUND | — | UNDERGROUND CABLE TV |
| ⊖ | BENCHMARK | — | WATER MAIN |
| ⊕ | UTILITY POLE | ⊕ | FIRE HYDRANT |
| ⊖ | GUY WIRE | ⊕ | WATER VALVE |
| — | UNDERGROUND ELECTRIC | ⊕ | WATER METER |
| — | OVERHEAD ELECTRIC | ⊕ | IRRIGATION CONTROL VALVE |
| — | HVAC UNIT | ⊕ | MANHOLE |
| — | TRANSFORMER | ○ | CLEAN OUT |
| — | GROUND LIGHT | — | SANITARY SEWER |
| — | ELECTRIC BOX | — | STORM SEWER |
| — | LIGHT POLE | □ | CATCH BASIN |
| — | UNDERGROUND TELEPHONE | □ | INLET |
| — | OVERHEAD TELEPHONE | ⊕ | YARD DRAIN |

AMERICAN LAND TITLE ASSOCIATION
STEWART TITLE GUARANTY COMPANY
TITLE SEARCH REPORT
FILE NO. 01032-19946 POLICY NO. 0-300-03222381
EFFECTIVE DATE: SEPTEMBER 25, 2014 AT 3:25 PM
SCHEDULE B EXCEPTIONS FROM COVERAGE

IN: 2007022014828
6.800 ACRES
5100 UPPER METRO PL.

- ITEMS ARE NOT SURVEY RELATED AND CANNOT BE SHOWN GRAPHICALLY.
- RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, AND/OR OTHER CONDITIONS AS SHOWN ON RECORDED PLAT, PLAT BOOK 90 PAGE 94, EASEMENTS AND SETBACK LINES ARE AS SHOWN.
- MATTERS SHOWN ON SURVEY BY E.P. FERRIS AND ASSOCIATES, COPY OF SURVEY NOT PROVIDED:
 - CONCRETE PAD AND WALL ENCRICH ON EASEMENT IN 1988/210318182
 - ENCROACHMENT OF BIKE PATH AND CONCRETE WALK AS SHOWN.
 - WALL EXTENDS PAST WEST PROPERTY LINE IN NORTHWEST CORNER OF SUBJECT PROPERTY AS SHOWN.
 - PER PG 90 PG 94, NO VEHICULAR ACCESS ALLOWED ALONG FRANTZ ROAD OR US 33SR 161.
 - STONE WALL COVERS 10' EASEMENT IN NORTHEAST CORNER OF SUBJECT PROPERTY AS SHOWN.
- EASEMENT TO COLUMBUS SOUTHERN POWER COMPANY, IN: 1998/210318182, APPROXIMATE LOCATION OF EASEMENT IS SHOWN.
- RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, ASSESSMENTS, AND/OR OTHER CONDITIONS OF RECORD IN INSTRUMENT NO. 1989/015303501, ENCUMBRANCES ON THE SUBJECT PROPERTY BUT NOT SURVEY RELATED AND CANNOT BE SHOWN GRAPHICALLY.
- RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, ASSESSMENTS, AND/OR OTHER CONDITIONS OF RECORD IN INSTRUMENT NO. 1998/020219370, SETBACK LINES ARE AS SHOWN; LANDSCAPE BUFFER EASEMENT CANNOT BE SHOWN GRAPHICALLY; OTHER ITEMS ARE NOT SURVEY RELATED AND CANNOT BE SHOWN GRAPHICALLY.
- ITEM IS BLANKET IN NATURE AND CANNOT BE SHOWN GRAPHICALLY.
- ITEM IS NOT SURVEY RELATED AND CANNOT BE SHOWN GRAPHICALLY.



VICINITY MAP
NOT TO SCALE

- NOTES**
- OCCUPATION IN GENERAL FITS SURVEY WITH NO APPARENT ENCROACHMENTS BY OWNERS OF THE SUBJECT PROPERTY OR BY OWNERS OF ADJOINING PROPERTIES WITH THE EXCEPTION OF WALK IN SOUTHEAST PORTION OF THE PROPERTY AND BIKE PATH ALONG PORTION OF EASTERN PROPERTY LINE.
 - SOURCE DOCUMENTS AS NOTED.
 - ALL MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
 - BEARINGS ARE BASED ON THE STATE PLANE COORDINATE SYSTEM (SPCS), OHIO SOUTH ZONE, BASED ON A GPS SURVEY UTILIZING CORS STATION 1026 AND MONUMENT '36'. THE PROJECT COORDINATES ARE BASED ON GSPC AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.00022388 APPLIED AT BASE POINT N 34.810100 E 1.73533000. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
 - VERTICAL DATUM IS NAVD83 BASED ON SOURCE EM 121.
 - THE SUBJECT'S PROPERTY IS LOCATED IN ZONE 'X' AREAS DETERMINED TO BE OUTSIDE OF THE 2% ANNUAL CHANCE FLOODPLAIN AS DETERMINED BY GRAPHIC INTERPRETATION OF THE FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 38M402132K EFFECTIVE JUNE 17, 2008.
 - UTILITIES SHOWN ARE BASED ON PHYSICAL MARKINGS, PLAN INFORMATION PROVIDED BY UTILITY OWNERS, AND LOCATIONS OF ABOVE-GROUND APPEARANCES. THE OHIO UTILITY PROTECTION SERVICE (OUPS) WAS CONTACTED ON OCTOBER 20, 2014; OUPS TICKET #4429-301-838 & 4429-301-838.
 - THE SUBJECT PROPERTY IS ZONED CC (COMMUNITY COMMERCIAL DISTRICT).
 - THERE ARE 153 REGULAR PARKING SPACES AND 6 HANDICAP PARKING SPACES ON THE SUBJECT PROPERTY.
 - NO DIVISION OR PARTY WALLS BETWEEN THE SUBJECT PROPERTY AND ADJOINING PROPERTIES OBSERVED.
 - THERE IS NO EVIDENCE OF CURRENT EARTHWORK, BUILDING CONSTRUCTION OR BUILDING ADDITION.
 - THERE ARE NO KNOWN CHANGES, COMPLETED OR PROPOSED, IN THE STREET RIGHT-OF-WAY LINES.
 - THERE IS NO OBSERVABLE EVIDENCE OF USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL ON THE SUBJECT PROPERTY.
 - THERE IS NO OBSERVED EVIDENCE OF WETLAND AREAS AS DELINEATED BY APPROPRIATE AUTHORITIES.
 - THERE IS NO OBSERVED EVIDENCE OF EXISTING TANKS OR DRAINAGE FIELDS WITHIN THE SUBJECT PROPERTY.
 - THIS DRAWING IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY THE KLEINGERS GROUP IN OCTOBER, 2014.

To ICH Dublin Hotel, LLC, American Land Title Association and Stewart Title Guaranty Company:
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standards Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established by ALTA and NSPS, and include items 1.A, 6.B, 6. C, 11.B, 13, 14, 16-19, 20(a), 20(b) and 21 of Table A thereof. The field work was completed on February 12, 2014.

Michael L. Keller
MICHAEL L. KELLER
REGISTERED PROFESSIONAL SURVEYOR NO. 7578
11/25 / 14
DATE



CIVIL ENGINEERING
SURVEYING
LANDSCAPE ARCHITECTURE
www.kleingers.com
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614.862.8111



OHM ADVISORS, INC.
390 North Fourth Street
Suite 600
Columbus, OH 43215
614.454.0421
OHM-ADVISORS.COM

SCALE
SECTION

DATE

PROJECT

DATE

DATE

DATE

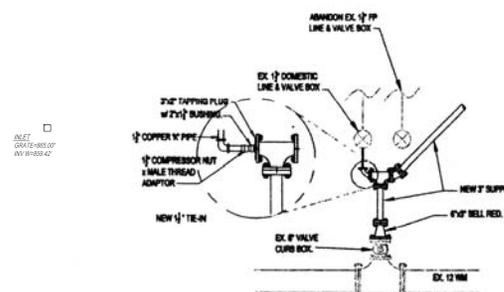
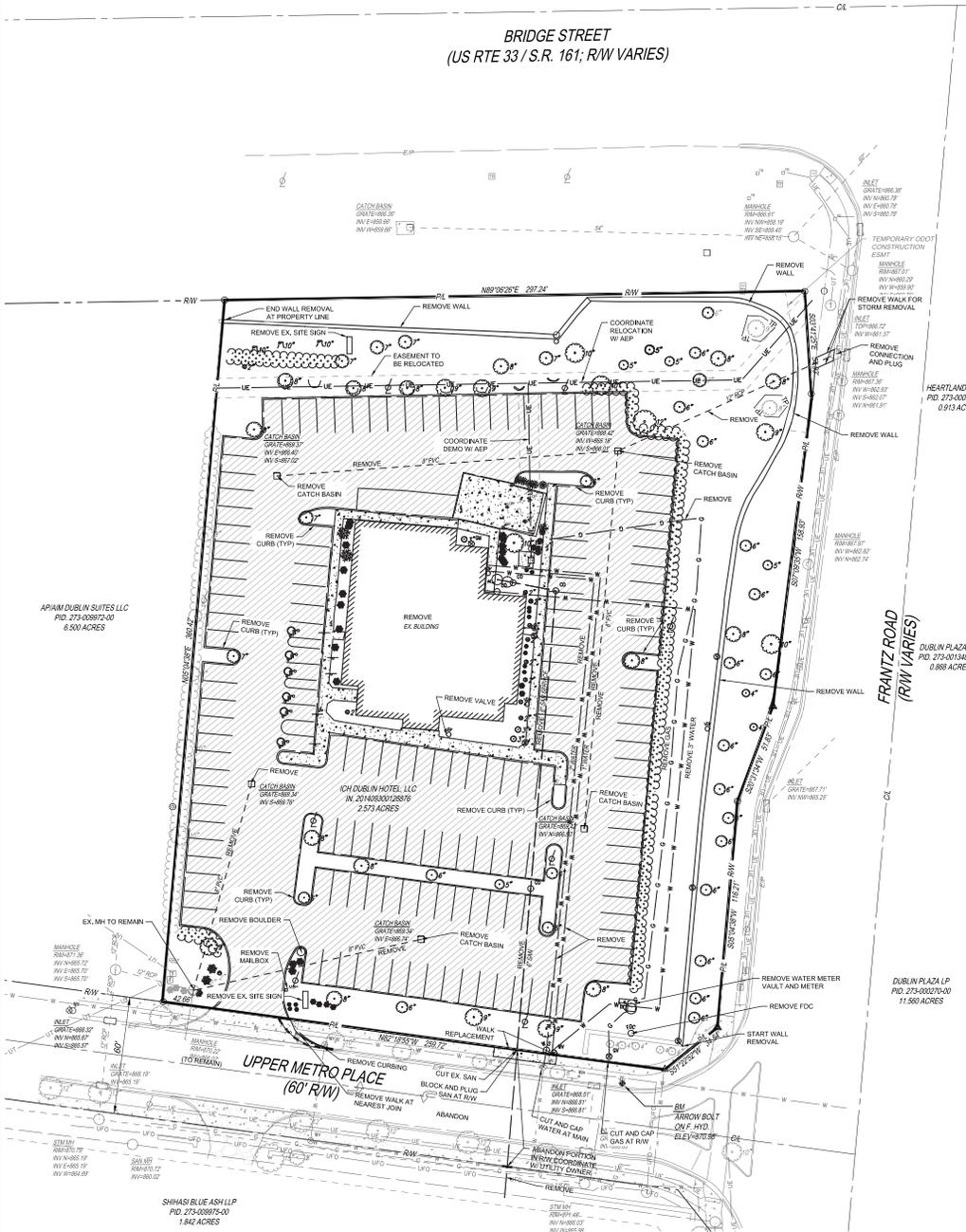
DATE

DATE

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO
EXISTING CONDITIONS

C103

BRIDGE STREET
(US RTE 33 / S.R. 161; RW VARIES)

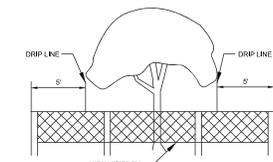


EXISTING WATER SERVICE DETAIL
(TO BE REMOVED)
N.T.S.

NOTE
CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION

DEMOLITION NOTES:
ANY UTILITY CUT AND CAPPED AT THE RW IS ABANDONED WITHIN THE RW AS WELL

REMOVE EXISTING SITE SOILS UNDER THE LOCATION OF THE PROPOSED BUILDING FOOTPRINT TO A DEPTH 5'-6\"/>



NOTES:

- PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKIPPING OF ROOTS, SKINNING OR BREAKING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE. EXCESS FOOT OR VEHICLE TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- SNAGS SHALL CLEARLY IDENTIFY THE TREE AND NATURAL PRESERVATION AREA AND STATE THAT NO CLEARING OR EQUIPMENT IS ALLOWED WITHIN IT.
- TREE AND NATURAL PRESERVATION AREA SHALL BE FENCED PRIOR TO BEGINNING CLEARING OPERATIONS.
- FENCE MATERIALS SHALL BE METAL FENCE POSTS WITH SNOW FENCE.
- FENCE SHALL BE PLACED AS SHOWN ON PLANS AND BEYOND THE DRIP LINE OR CANOPY OF TREES TO BE PROTECTED.
- IF ANY CLEARING IS DONE AROUND SPERMEN TREES IT SHALL BE DONE BY CUTTING AT GROUND LEVEL WITH HAND HELD TOOLS AND SHALL NOT BE GUBBERED OR PULLED OUT. NO CLEARING SHALL BE DONE IN BUFFER STRIPS OR OTHER PRESERVED FORESTED AREAS.
- NO FILLING OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN THE TREE PROTECTION AREA, INCLUDING DEPOSITION OF SEDIMENT.
- WHERE UTILITIES MUST RUN THROUGH A TREE'S DRIP LINE, TUNNELING SHOULD BE USED TO MINIMIZE ROOT DAMAGE. TUNNELING SHOULD BE AT A MINIMUM DEPTH OF 24 INCHES FOR TREES LESS THAN 12 INCHES IN DIAMETER OR AT A MINIMUM DEPTH OF 36 INCHES FOR LARGER DIAMETER TREES.
- WHERE TUNNELING WILL BE PERFORMED WITHIN THE DRIP LINE OF A TREE, THE TUNNEL SHOULD BE PLACED A MINIMUM OF 2 FEET AWAY FROM THE TREE TRUNK TO AVOID TAPROOTS.
- MINIMIZE EXCAVATION OR TRENCHING WITHIN THE DRIP LINE OF THE TREE. ROUTE TRENCHES AROUND THE DRIP LINE OF TREES.
- ROOTS 3 INCHES OR LARGER THAT ARE SEVERED BY TRENCHING SHOULD BE SWAN OFF NEARLY IN ORDER TO ENCOURAGE NEW GROWTH AND DISCOURAGE DECAY.
- SOIL EXCAVATED DURING TRENCHING SHALL BE PILED ON THE SIDE AWAY FROM THE TREE.
- ROOTS SHALL BE KEPT MOIST WHILE TRENCHES ARE OPEN AND REPLED IMMEDIATELY AFTER UTILITIES ARE INSTALLED OR REPAIRED.

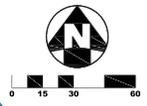
TREE PROTECTION DETAIL
N.T.S.

EXISTING LEGEND

- 5/8" CAPPED IRON PIN SET
- 5/8" IRON PIN FOUND
- 1" IRON PIPE FOUND
- ▲ NAIL FOUND
- ▲ NAIL FOUND
- BENCHMARK
- UTILITY POLE
- UE UNDERGROUND ELECTRIC
- E OVERHEAD ELECTRIC
- HVAC HVAC UNIT
- TRANSFORMER
- ELEC BOX ELECTRIC BOX
- LP LIGHT POLE
- UT UNDERGROUND TELEPHONE
- OT OVERHEAD TELEPHONE
- TM TELEPHONE MANHOLE
- TP TELEPHONE PEDESTAL
- G GAS MAIN
- G VALVE GAS VALVE
- UCATV UNDERGROUND CABLE TV
- W WATER MAIN
- F FIRE HYDRANT
- V WATER VALVE
- M WATER METER
- ○ MANHOLE
- ○ CLEAN OUT
- SANITARY SEWER
- STORM SEWER
- CATCH BASIN
- INLET
- YARD DRAIN
- TRAFFIC CONTROL CABINET
- TRAFFIC SIGNAL POLE
- SIGN
- ○ TREE (TO REMAIN)

DEMOLITION LEGEND

- REMOVE LIGHT POLE
- W REMOVE WATER MAIN
- V REMOVE FIRE HYDRANT
- V REMOVE WATER VALVE
- M REMOVE WATER METER
- V REMOVE IRRIGATION CONTROL VALVE
- ○ REMOVE SPRINKLER
- ○ REMOVE STUMP
- --- REMOVE STORM SEWER
- CATCH BASIN
- --- REMOVE SANITARY SEWER
- --- REMOVE SANITARY SEWER CLEANOUT
- G REMOVE GAS LINE
- ○ REMOVE SIGN
- ○ REMOVE GUARD POST (PIPE BOLLARD)
- ○ REMOVE TREE
- ■ REMOVE CONCRETE
- ■ REMOVE PAVEMENT
- ■ REMOVE HEDGES
- --- SAWCUT
- TP TREE PROTECTION



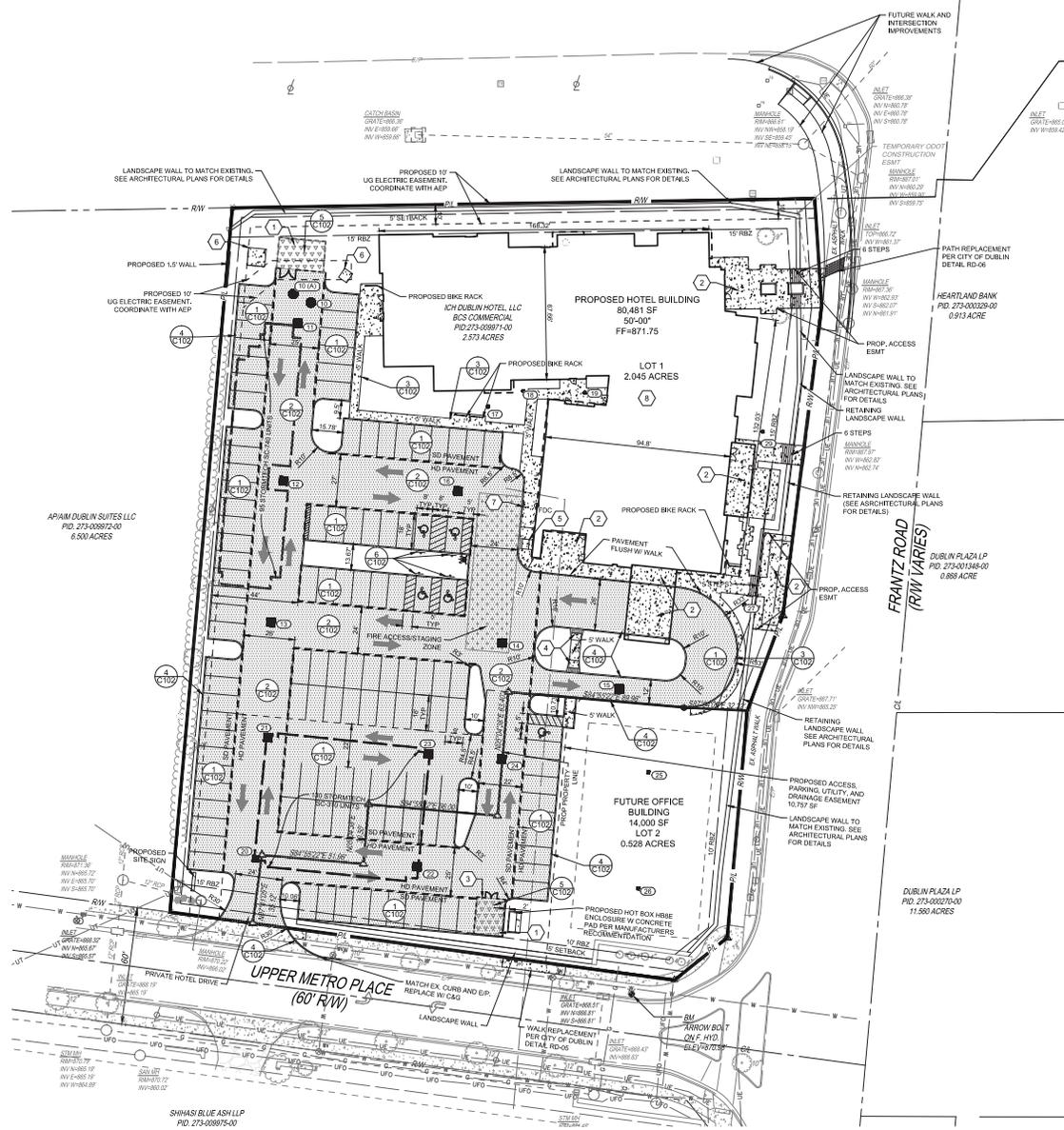
CIVIL ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE
www.kleingers.com
350 Washington Rd. Ste B
Weston, MA 02456
617.862.4111



DATE: 11/15/2024
SCALE: AS SHOWN
REVISIONS: 1. 11/15/2024

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO
DEMO SHEET

BRIDGE STREET
(US RTE 33 / S.R. 161; R/W VARIES)



PROPOSED SYMBOLS

- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED CONCRETE WALK
- PROPOSED ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY CONCRETE DUMPSTER PAD
- FIRE ACCESS STAGING ZONE
- TRAFFIC CIRCULATION
- FIRE HYDRANT
- WATER VALVE
- LIMIT OF UNDERGROUND DETENTION

NOTES:

1. ALL RADII ARE 6' UNLESS OTHERWISE LABELED.
2. DIMENSIONS ARE SHOWN TO FACE OF CURB AND EDGE OF PAVEMENT (WHEN CURB IS NOT PRESENT).
3. ALL ADA ACCESSIBLE PARKING SPACES ARE 8' WIDE X 16' LONG. ALL OTHER PARKING SPACES ARE 8' WIDE X 12' LONG.
4. SITE IS LOCATED IN FLOOD ZONE X AS SHOWN IN FIRM PANEL 39049C0132K, 6/17/2006

CODED NOTE

- 1) PROPOSED DUMPSTER LOCATION
- 2) ARCHITECTURAL CONCRETE. SEE ARCHITECTURAL PLANS FOR DETAILS
- 3) DUMPSTER ENCLOSURE PER ARCHITECTURAL PLANS
- 4) CURB RAMP PER CDC STANDARD DRAWING 2315, TYPE C
- 5) CURB RAMP PER MODIFIED CDC STANDARD DRAWING 2315, TYPE A
- 6) CONCRETE TRANSFORMER PAD. SEE ELECTRICAL PLANS FOR DETAILS. COORDINATE LOCATION WITH AEP
- 7) NO PARKING FIRE LANE SIGN (SEE DETAIL FHWA MUTC R-1). SEE DETAIL SHEET C102
- 8) GEOTECHNICAL NOTE 3.1 (SEE GEOTECHNICAL REPORT PG.16)

SITE DATA

PARCEL ID: 273-009971-00
 ZONING DISTRICT: BSC COMMERCIAL
 ADJACENT ZONING DISTRICTS: BSC COMMERCIAL

EXISTING USE: COMMERCIAL
 PROPOSED USE: COMMERCIAL

SITE AREA: 2.573 AC
 EXISTING IMPERVIOUS AREA: 1.433 AC
 PROPOSED IMPERVIOUS AREA: 1.938 AC (WITH FUTURE PROPOSED BUILDING)
 IMPERVIOUS LOT COVERAGE: 76%

IMPERVIOUS AREA ADDED: 0.445 AC
 PROPOSED BUILDING AREA: 80,481 SF

PROPOSED BUILDING HEIGHT: 50'-00"

REQUIRED PARKING SPACES: 131
 PROVIDED PARKING SPACES: 122
 HANDICAP PARKING SPACES: 5

FLOOD ZONE: FLOOD ZONE X

FEMA # 39049C0132K (EFFECTIVE 06/17/2006)



www.kleingers.com
 350 Washington Rd. SW B
 Western, OH 43082
 614.862.5111



OHM
 ARCHITECTS ENGINEERS PLANNERS
 900 North Fourth Street
 Suite 600
 Columbus, OH 43215
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 OHM-ADVISORS.COM

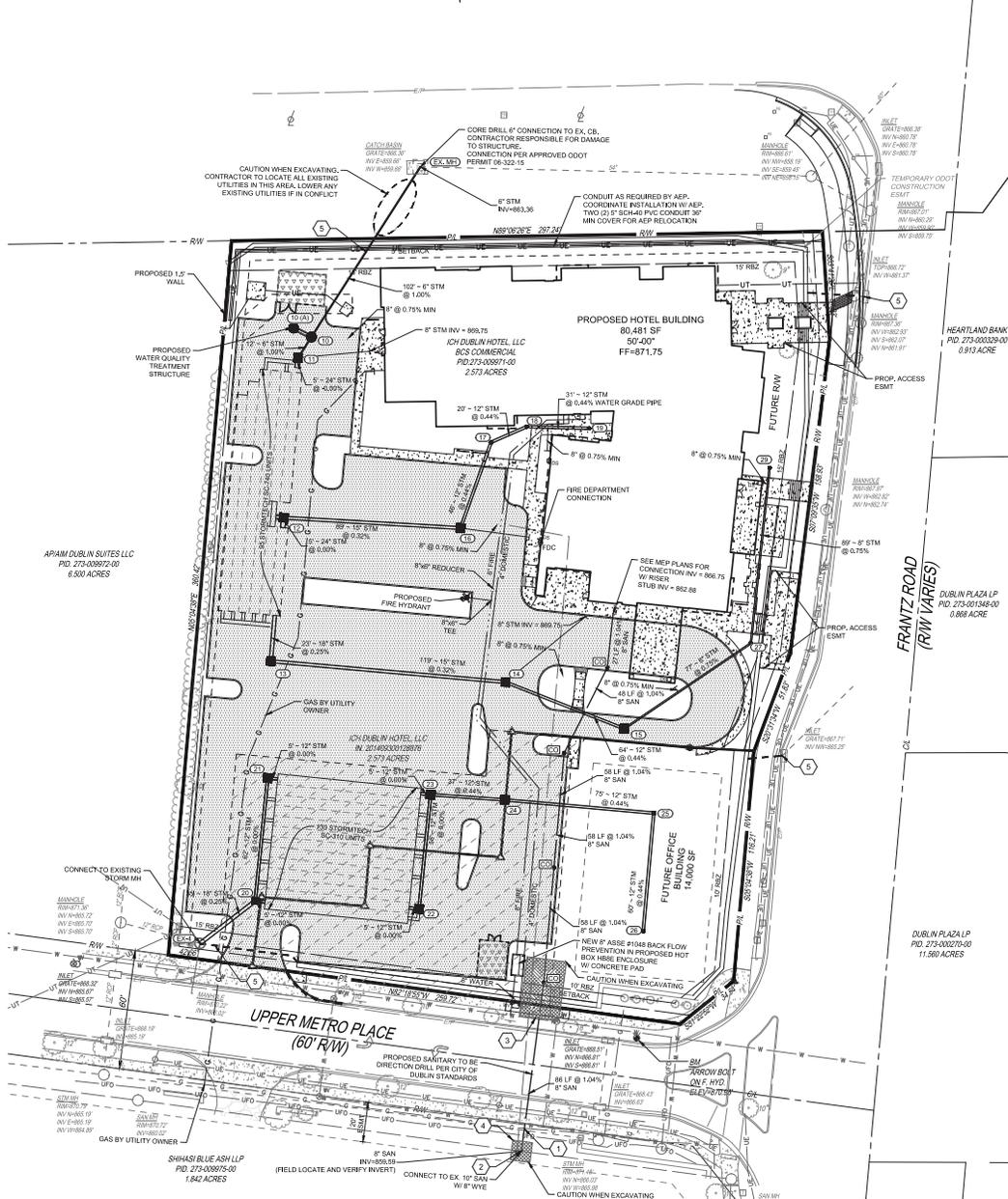
STATE OF OHIO
 KYLE L. WEBER
 E-73557
 PROFESSIONAL ENGINEER

DATE: 06/17/2006
 DRAWING NO: 273-009971-00-01
 SHEET: C105

HOME2 HOTEL
 ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
 FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

C105

BRIDGE STREET
(US RTE 33 / S.R. 161, R/W VARIES)



PROPOSED SYMBOLS

	PROPOSED CATCH BASIN
	PROPOSED YARD DRAIN
	PROPOSED STORM SEWER
	PROPOSED STORM DOWNSPOUT
	PROPOSED WATER
	PROPOSED FIRE DEPARTMENT CONNECTION
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY SEWER CLEANOUT
	PROPOSED GAS LINE
	PROPOSED ACCESS, PARKING, UTILITY AND DRAINAGE EASEMENT
	PROPOSED BORE PIT

NOTES

1. ALL CONNECTIONS TO EXISTING CATCH BASINS AND/OR MANHOLES SHALL BE CORE DRILLED.
2. CONNECTIONS TO EXISTING UTILITIES REQUIRE INSPECTION BY THE CITY OF DUBLIN.
3. CONTRACTOR TO COORDINATE EXACT LOCATIONS OF GAS, ELECTRIC, AND TELEPHONE SERVICES WITH UTILITY PROVIDERS.
4. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: MULTICAST DRAIN BASIN, HDPE DUCTCAST FABRICATED PVC CATCH BASIN, AGRADRAIN CATCH BASIN, OR APPROVED EQUAL. GRATES SHALL BE #10 RATED AND ANY GRATES LOCATED WITHIN A HARDSCAPE AREA SHALL BE ADA COMPLIANT.
5. RESTORE ORIGINAL LANDSCAPE CONDITIONS AT BORE PIT AREAS
6. STORM SEWER PIPE LABELED "STW" SHALL BE ONE OF THE FOLLOWING: PVC-SDR35, PVC-PROFILE PIPE PER CDOT ITEM 707.42, HIGH DENSITY POLYETHYLENE PER CDOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, CDOT ITEM 707.01, 707.02 OR REINFORCED CONCRETE PIPE, CDOT ITEM 706.02 CLASS IV, STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, CDOT ITEM 706.02 CLASS IV. ALL STORM FITS TO BE INSTALLED PER CDOT ITEM 603. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (H=0.013) OR LESS.

CODED NOTES

- 1 HORIZONTAL DIRECTIONAL BORE BELOW UPPER METRO
- 2 CONNECT TO EX. SANITARY LINE CANNOT BE MADE WITHOUT OBTAINING A PERMIT
- 3 20' x 30' BORE PIT
- 4 10' x 10' RECEIVING PIT TO BE BACKFILLED WITH CDF. WALL MUST BE REPLACED IN KIND. BRICK STAMPEL CONCRETE MUST MATCH EXISTING
- 5 CONNECT 4" WALL UNDERDRAIN TO STORM STRUCTURE



THE KLEINGERS GROUP
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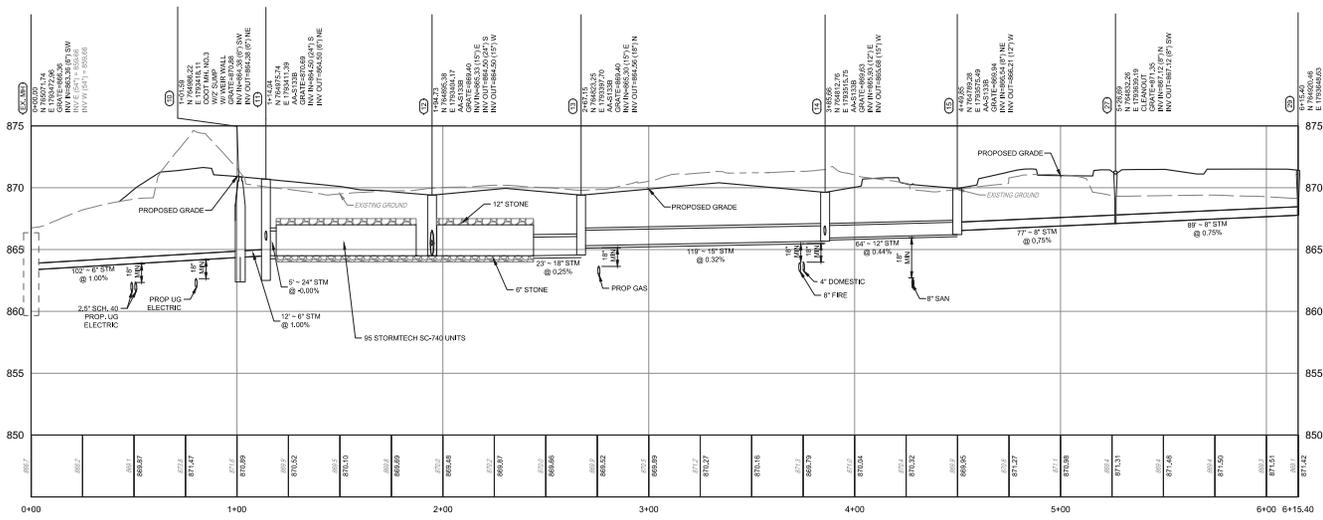
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STATE OF OHIO
KYLE L. WEBER
E-73557
PROFESSIONAL ENGINEER

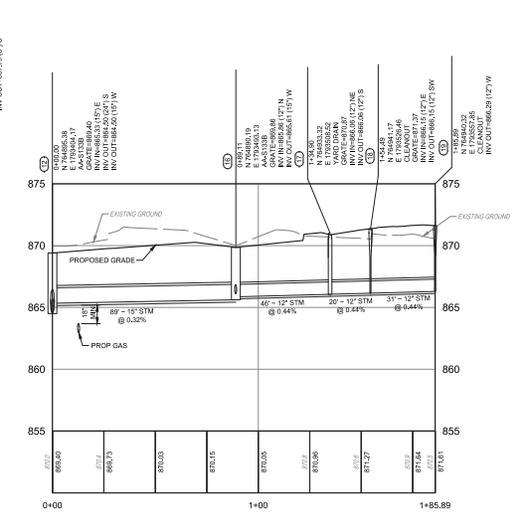
DATE: 08/20/2018
SCALE: AS SHOWN
SHEET: 10 OF 10

PROJECT: HOME2 HOTEL
CLIENT: ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
LOCATION: FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

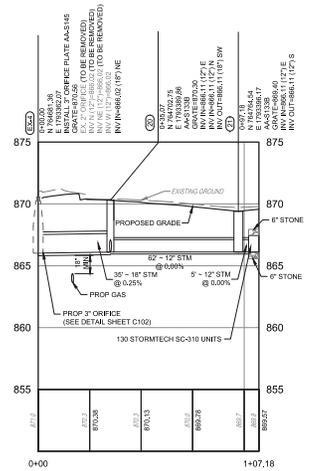
UTILITY PLAN



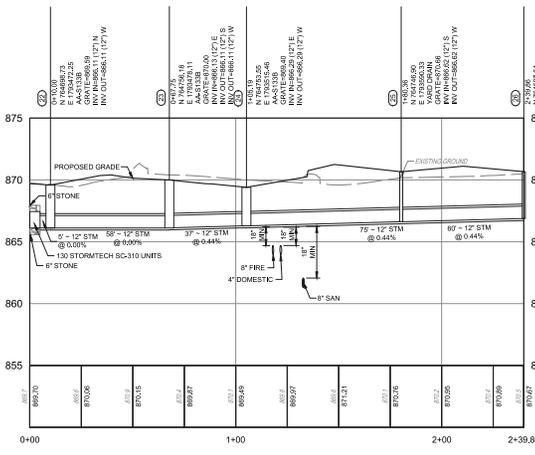
CB-15 TO EX. MH



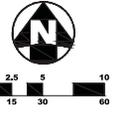
YD-17 TO CB-12



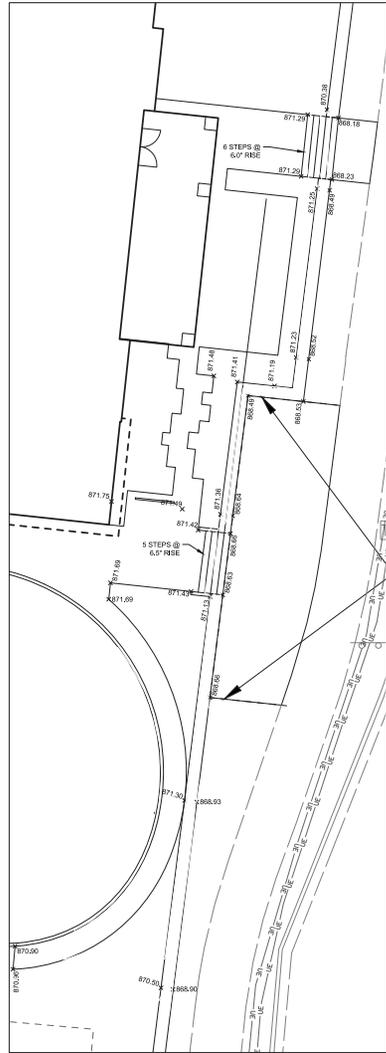
SOUTH UNDERGROUND DETENTION TO EX. MH



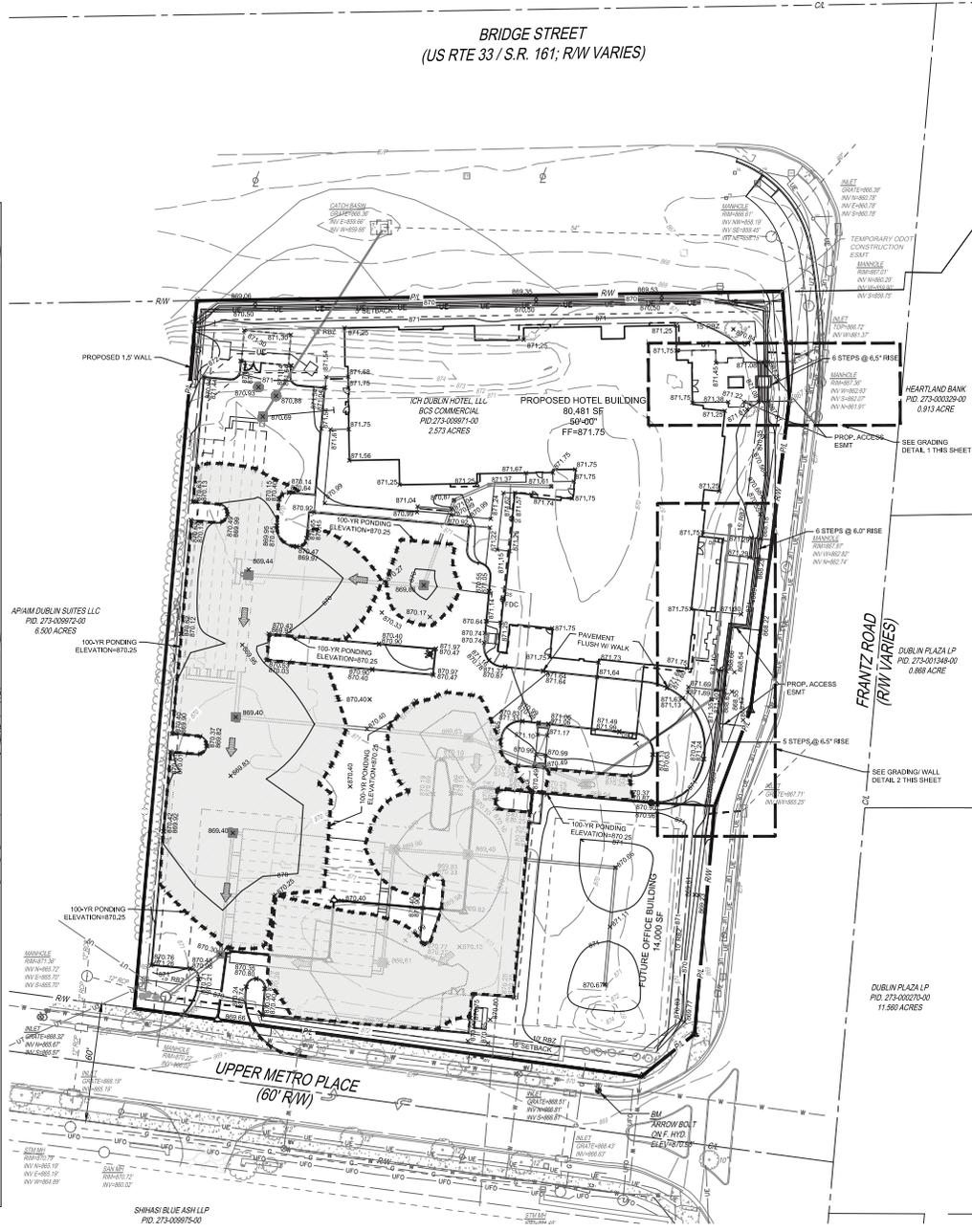
YD-22 TO UNDERGROUND DETENTION



BRIDGE STREET
(US RTE 33 / S.R. 161; RW VARIES)



GRADING/WALL DETAIL 2
1" = 10'



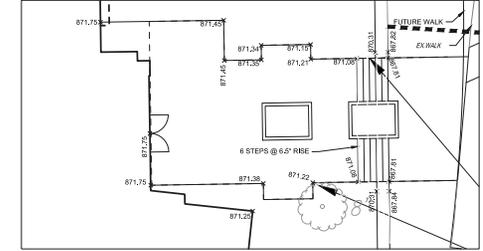
SHIMASU BLUE ASH LLP
PID. 273-008975-01

GRADING LEGEND

- 040 — EX CONTOUR
- 044 — EX CONTOUR
- 045 — PROPOSED CONTOUR
- 044 — PROPOSED CONTOUR
- --- 100-YEAR PONDING LIMITS
- X877.00 PROPOSED SPOT ELEVATION
- SURFACE DETENTION STORAGE AREA
- FLOOD ROUTE

PROPOSED SYMBOLS

- PROPOSED STORM SEWER PIPES
- PROPOSED CATCH BASIN
- PROPOSED YARD DRAIN



GRADING DETAIL 1
1" = 10'

STORMWATER MANAGEMENT SUMMARY TABLE (NORTH)

STORM EVENT	1	2	5	10	25	50	100
ALLOWABLE RELEASE RATE (CFS)	1.40	1.40	1.40	1.40	1.40	5.00	7.30
ACTUAL RELEASE RATE (CFS)	0.71	0.80	0.95	1.24	1.26	1.27	1.29
PONDING ELEVATION	868.88	868.38	867.45	869.81	870.02	870.13	870.25

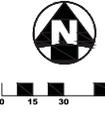
STORMWATER MANAGEMENT SUMMARY TABLE (SOUTH)

STORM EVENT	1	2	5	10	25	50	100
ALLOWABLE RELEASE RATE (CFS)	0.50	0.50	0.50	0.50	0.50	1.60	2.00
ACTUAL RELEASE RATE (CFS)	0.21	0.25	0.31	0.45	0.45	0.47	0.48
PONDING ELEVATION	866.05	867.24	867.87	869.74	870.02	870.13	870.25

NOTE:
REMOVE EXISTING SITE SOILS UNDER THE PROPOSED BUILDINGS FOOTPRINT TO A DEPTH 5'-FEET. REMOVAL OF SOILS SHALL EXTEND TO A MINIMUM DISTANCE OF FIVE FEET FROM THE PROPOSED BUILDING WALLS.



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614.454.8421
OHM-ADVISORS.COM

STATE OF OHIO
KYLE L. WEBER
E-73557
PROFESSIONAL ENGINEER

SCALE
DATE
DESCRIPTION

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO
GRADING PLAN
C108

DOWNSTREAM DEFENDER OPERATION AND MAINTENANCE MANUAL

Downstream Defender® by Hydro International

The Downstream Defender is an advanced hydrodynamic Storm Separator designed to provide high removal efficiencies of settleable solids and their associated petroleum, oil, and floatables over a wide range of flow rates.

The Downstream Defender has unique, flow-modifying internal components developed from extensive laboratory testing, CFD modeling and over thirty years of hydrodynamic separation experience in wastewater, combined sewer and stormwater applications. These internal components distinguish the Downstream Defender from simple swirl-type devices and conventional oil/grease separators by minimizing turbulence and headlosses, enhancing separation, and preventing washout of previously stored pollutants.

The high removal efficiencies and inherent low headlosses of the Downstream Defender allow for a small footprint making it a compact and economical solution to the treatment of non-point source pollution.

BENEFITS OF THE DOWNSTREAM DEFENDER

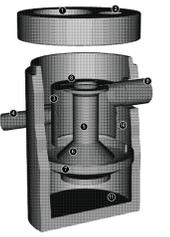
- Removes sediment, floatables, oil and grease
- No pollutant washouts
- Small footprint
- No loss of treatment capacity between clean-outs
- Low headloss
- Efficient over a wide range of flows
- Easy to install
- Low maintenance

APPLICATIONS

- New developments and reverts
- Utility yards
- Streets and roadways
- Parking lots
- Pre-treatment for filters, infiltration and storage
- Industrial and commercial facilities
- Wetlands protection

DOWNSTREAM DEFENDER COMPONENTS

1. Central Access Port
2. Floatables Access Port (0.6, 0.8, and 1.0-ft. models only)
3. Fly Pipe
4. Inlet Baffle
5. Center Shaft
6. Center Cone
7. Weir/Skim Slot
8. Floatables Lid
9. Sucker Pipe
10. Floatables Storage
11. Sediment Storage Zone



DOWNSTREAM DEFENDER OPERATION AND MAINTENANCE MANUAL

Operation



Blockage Protection

The Downstream Defender has large clear openings and no internal restrictions on vents, minimizing the risk of blockage and hydraulic losses. In addition to increasing the system headloss, certain inlet and internal vents can increase the risk of blockage within the unit.

Blockage Protection

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Maintenance

The Downstream Defender protects the environment by removing a wide range of pollutants from stormwater runoff. Routine removal of these captured pollutants is essential to the continuous, long-term functioning of the Downstream Defender. The Downstream Defender will capture and retain sediment and oil and the sediment and oil storage volumes are full to capacity. When sediment and oil storage capacities are reached, the Downstream Defender will no longer be able to store sediment and oil. Maximum pollutant storage capacities are provided in Table 5.

POLLUTANT CAPTURE AND RETENTION

The internal components of the Downstream Defender have been designed to protect the oil, floatables and sediment storage volumes so that separator performance is not reduced as pollutants accumulate between clean-outs. Additionally, the Downstream Defender is designed and installed into the storm drain system so that the vessel remains vent between storm events. Oil and floatables are stored on the water surface in the outer annulus separate from the sediment storage volume in the sump of the unit providing the option to separate oil disposal, and accessories such as skimmer poles. Since the oil/floatables and sediment storage volumes are isolated from the active separation region, the potential for re-suspension and washout of stored pollutants between clean-outs is minimized.

WET SUMP

The sump of the Downstream Defender retains a standing water level between storm events. The water in the sump prevents stored sediment from solidifying in the base of the unit. The clean-out procedure becomes more difficult and labor intensive if the system allows the sediment to dry-out and consolidate. Dried sediment must be manually removed by maintenance crews. This is a labor intensive operation in a hazardous environment.

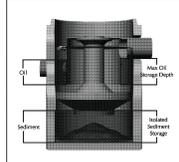


Figure 1: Downstream Defender Maintenance Storage Depth

DOWNSTREAM DEFENDER OPERATION AND MAINTENANCE MANUAL

Operation

The Downstream Defender allows for easy and safe inspection, monitoring and clean-out procedures. A commercially or municipally owned sump-truck is used to remove captured sediment and floatables. Access ports are located on the top of the manhole. On the 0.6, 0.8 and 1.0-ft. units, the floatables access port is above the manhole and the collector manhole and the dip pipe. The sediment removal access ports for all Downstream Defender models are located directly over the hollow center shaft.

Inspection Procedures

Inspection is a simple process that does not involve entry into the Downstream Defender. Maintenance crews should be familiar with the Downstream Defender and its components prior to inspection.

SCHEDULING

It is important to inspect your Downstream Defender every six months during the first year of operation to determine your site-specific rate of pollutant accumulation.

Inspection Procedures

Typically, inspections may be conducted during any season of the year.

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Determining Your Maintenance Schedule

The frequency of clean-out is determined in the first year of installation. During the first year of operation, the unit should be inspected every six months to determine the rate of sediment and floatables accumulation. A simple probe such as a Sludge Judge® can be used to determine the depth of accumulated solids stored in the sump. This information can be recorded in the maintenance log (see page 9) to establish a routine maintenance schedule.

Downstream Defender Pollutant Storage Capacities and Max. Cleanout Depths

List Diameter (ft)	Total Oil Storage (gal)	Oil Clean-out Depth (inches)	Total Sediment Storage (cu ft)	Sediment Clean-out Depth (inches)	Max. Liquid Volume Removed (gal)
4	70	<16	141	<18	384
6	230	<23	424	<24	1239
8	523	<31	939	<30	2884
10	1030	<42	1,737	<36	5546

NOTE: 1. Refer to Downstream Defender Cleanout Detail (Fig. 11) for measurement of depth.
2. Oil accumulation is typically less than sediment, however, removal of oil and sediment during the same service is recommended.
3. Remove floatable line, then remove sediment storage volume.

DOWNSTREAM DEFENDER OPERATION AND MAINTENANCE MANUAL

Inspection Procedures

Inspection is a simple process that does not involve entry into the Downstream Defender. Maintenance crews should be familiar with the Downstream Defender and its components prior to inspection.

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Typically, inspections may be conducted during any season of the year.

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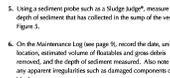
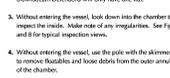
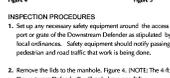


Figure 7: View from Cover (Slit) into sediment storage zone

Figure 8: View of outer annulus of floatable and oil collector zone

DOWNSTREAM DEFENDER OPERATION AND MAINTENANCE MANUAL

Recommended Equipment

- Safety equipment (traffic cones, etc.)
- Crow bar or other tool to remove grate or lid
- Pole with skimmer or net (if only floatables are being removed)
- Sediment probe (such as a Sludge Judge®)
- Victor bucket (floatable hose recommended)
- Downstream Defender Maintenance Log

Floatables and Sediment Clean Out Procedures

1. Set up any necessary safety equipment around the access port or grate of the Downstream Defender as stipulated by local ordinances. Safety equipment should include passing pedestrian and road traffic; that work is being done.
2. Remove the lids to the manhole. (NOTE: The 4-ft Downstream Defender® will only have one lid).
3. Without entering the vessel, look down into the chamber to inspect the inside. Make note of any irregularities.
4. Using the Floatables Port for access, remove oil and floatables stored on the surface of the water with the Victor hose or the skimmer net. (Figure 9).
5. Using a sediment probe such as a Sludge Judge®, measure the depth of sediment that has collected in the sump of the vessel and record in the Maintenance Log (page 9).
6. Once all floatables have been removed, drop the Victor hose to the base of the sump to the Central Access Port. Remove the sediment and gross debris of the sump flow. (Figure 6).

Figure 9: Floatables and sediment are removed with a Victor hose

Maintenance at a Glance

ACTIVITY	FREQUENCY
Inspection	- Regularly during first year of installation - Every 6 months after the first year of installation
Oil and floatables removal	- Once per year, with sediment removal - Following a spill in the drainage area
Sediment removal	- Once per year or as needed - Following a spill in the drainage area

NOTE: For most cleanouts it is not necessary to remove the entire volume of liquid in the vessel. Only removing the first few inches of oil/floatables and the sediment storage volume is required.

ITEM PARTS LIST

ITEM	SIZE	PARTS LIST DESCRIPTION
1	AS SHOWN	1/2" CONCRETE MANHOLE
2	30 in. FRAMES	MANHOLE LID FRAME & COVER
3	AS SHOWN	LINER (MATERIAL TO BE DETERMINED BY USER)
4	AS SHOWN	SUPPORT FRAME
5	AS SHOWN	TOP PLATE
6	AS SHOWN	COVER SHAFT & CONE
7	AS SHOWN	SKIMMING SKIRT
8	12 in. x 36 in.	FLYPIPE LOW W/ VENT
9	12 in. x 36 in.	FLYPIPE HIGH W/ VENT
10	12 in. x 36 in.	TANGENTIAL INLET PIPE (BY OTHERS)
11	12 in. x 36 in.	FLYPIPE (BY OTHERS)
12	AS SHOWN	PIPE COUPLING (BY OTHERS)

1" DOWNSTREAM DEFENDER GENERAL OFFLINE CONFIGURATION

DATE: 02/11 PROJECT: NTS
DRAWN: JM SCALE: NTS
CHECKED: JM PAGE: 1 OF 2

WATER QUALITY STRUCTURE #10(A) PROFILE VIEW SINGLE BYPASS STRUCTURE

WATER QUALITY STRUCTURE #19 PLAN VIEW SINGLE BYPASS STRUCTURE

WATER QUALITY STRUCTURE NOTE:

THE INFORMATION ON THIS SHEET HAS BEEN PROVIDED AS BASIS OF DESIGN FOR THE WATER QUALITY STRUCTURES. THE CONTRACTOR CAN SELECT ANOTHER MANUFACTURER IF THE PERFORMANCE CRITERIA BELOW ARE MET.

MINIMUM PERFORMANCE REQUIREMENTS:

- 1) FOUR (4) FOOT DIAMETER CIRCULAR STRUCTURE.
- 2) 80% TSS REMOVAL AT A FLOW GREATER THAN OR EQUAL TO 1.20 CFS.
- 3) SHALL BE LISTED ON ODOT PREQUALIFIED LIST.
- 4) A FORMAL PLAN REVISION MUST BE PREPARED BY ENGINEER AND APPROVED BY ADMINISTRATOR OF DIVISION OF SEWERAGE & DRAINAGE.



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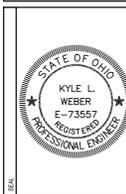


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STATE OF OHIO
KYLE L. WEBER
E-73557
PROFESSIONAL ENGINEER

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANZ ROAD & STATE ROAD 161, DUBLIN, OHIO

WATER QUALITY STRUCTURE - DOWNSTREAM DEFENDER DETAIL

C109



ADVANCED DRAINAGE SYSTEMS, INC.

STORMWATER CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUIV.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12-2, ARE MET FOR 10-LONG-DURATION (SAL) LOADS AND 50-K SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCE.
- CHAMBERS SHALL MEET ASTM F2822 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS.
- CHAMBERS SHALL BE DESIGNED AND ALLOWANCE CALCULATED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
 - A STRUCTURAL EVALUATION REQUESTED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.50 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION REQUESTED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12-2, ARE MET, THE 60-YEAR OVERFLOW MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2822 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-760 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS A BACKFILL METHOD:
 - EMBEDMENT LOCATED OFF THE CHAMBER BED.
 - MINIMUM AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LOAD SPREADER OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO LAYING CHAMBERS.
- JUNTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 4" (100 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" (20.0 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXFORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-760 CONSTRUCTION GUIDE".
 - NO CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED.
 - EQUIPMENT IS ALLOWED ON BARE CHAMBER.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-760 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-760 CONSTRUCTION GUIDE".
 - FULL 3" (76.0 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
 - USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 14885852698 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

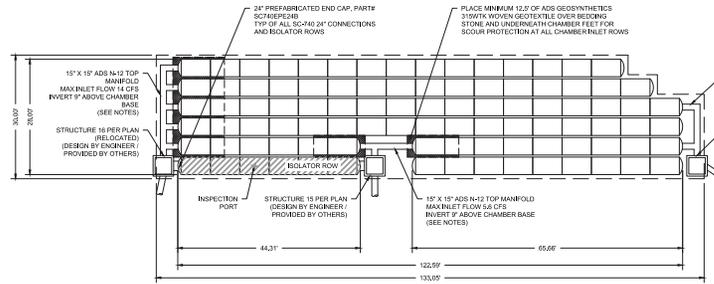
PROPOSED ELEVATIONS

MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	875.00
MINIMUM ALLOWABLE GRADE (IMPAVED WITH TRAFFIC):	895.00
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	865.00
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	865.00
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	865.00
TOP OF STONE:	869.00
TOP OF CHAMBER:	867.00
15" TOP MANHOLE INVERT:	866.25
15" BOTTOM MANHOLE INVERT:	864.41
ISOLATOR ROW:	864.50
BOTTOM OF CHAMBER:	864.00

- NOTES**
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #17 FOR MANHOLE RING GUIDANCE.
 - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.

PROPOSED LAYOUT (NORTH SYSTEM)

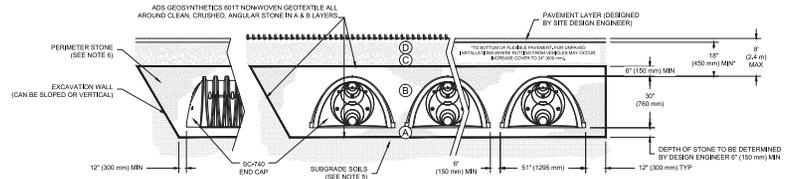
(80) STORMTECH SC-740 CHAMBERS
 (16) STORMTECH SC-740 END CAPS
 INSTALLED WITH 4" COVER STONE, #6 BASE STONE, 40% STONE VOID DESIGN CONSTRAINTS. IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS IN THE FIELD.
 PERIMETER OF SYSTEM: 336.0 FT



ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVEMENT PLANS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <30% FINE (OR PROCESSED) AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M44 ¹ A1, A1.5, A3 OR AASHTO M147 ¹ 3, 3S, 4, 4S, 5, 5S, 6, 67, 68, 7, 7A, 8, 8S, 9, 10	BEGIN COMPACTING AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 lbs (9,000 kg).
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" (20.0 mm) AND 1 1/2" (38.0 mm).	AASHTO M47 ¹ 3, 3S, 4, 4S, 5, 5S, 6, 67, 68, 7, 7A, 8, 8S, 9, 10	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBERS.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4" (20.0 mm) AND 1 1/2" (38.0 mm).	AASHTO M47 ¹ 3, 3S, 4, 4S, 5, 5S, 6, 67, 68, 7, 7A, 8, 8S, 9, 10	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{1,2}

- PLEASE NOTE:**
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR M47 STONE WOULD STATE, "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M47) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INfiltration SURFACES MAY BE COMPROMISED BY CONSTRUCTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY TAMING OR DRUMMING WITHOUT COMPACTION EQUIPMENT, FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2822 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE GRADE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

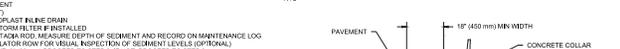
INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT**
- INSPECTION POINTS TO PRESENT.
 - REMOVE/OPEN LID ON INFLUENT BULKHEAD INLET DRAIN.
 - REMOVE AND CLEAN LID/STORMTECH FITTER IF INSTALLED.
 - USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG.
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).
 - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW**
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW.
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE.
 - IF MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY.
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE.
 - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 3. IF NOT, PROCEED TO STEP 4.
- STEP 3) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS**
- A JETVAC COLLECT CLEANED WOODS WITH REAR-FACING SPREAD OF 40" (1.1 m) OR MORE IS PREFERRED.
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLOW WATER IS CLEAN.
 - VACUUM STRUCTURE SURFACE AS REQUIRED.
- STEP 4) REPLACE ALL COVERS, GRATES, FILTERS, AND UDS. RECORD OBSERVATIONS AND ACTIONS.**
- STEP 5) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.**

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

SC-740 ISOLATOR ROW DETAIL



SC-740 INSPECTION PORT DETAIL



OHM ADVISORS, INC.
 300 North Fourth Street
 Suite 600
 Columbus, OH 43215
 614.442.8221

KYLE L. WEBER
 E-73557
 PROFESSIONAL ENGINEER

SCALE
 1" = 10'-0"

SECTION

UNDERGROUND DETENTION DETAIL (SC-740)

HOME2 HOTEL
 ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
 FRANTZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

UNDERGROUND DETENTION DETAIL (SC-740)

CADD
 DATE: 04/20/2024
 TIME: 10:42:00 AM
 USER: JLM/EPD

PROJECT: ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
 SHEET: UNDERGROUND DETENTION DETAIL (SC-740)

THE KLEINGERS GROUP

CIVIL ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE
 www.kleingers.com
 350 Washington Rd. Ste B
 Westerville, OH 43082
 614.882.8111

Ohio Utilities Protection Center

C110



STORMWATER CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310, SC-310, OR APPROVED EQUIV.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR 10-LANE MULTILANE TRAFFIC LOADS AND 3-SHOOT CANTILEVER LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2822 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS.
- CHAMBERS SHALL BE DESIGNED AND ALLOWANCE CALCULATED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING INFORMATION TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
 - A STRUCTURAL EVALUATION REPORT SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.50 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION REPORT SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 10-YEAR OVERFLOW MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2822 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL, ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-740 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

STORMTECH RECOMMENDS 3 BACKFILL METHODS:

 - 1. TRENCHER LOCATED OFF THE CHAMBER BED.
 - 2. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - 3. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LOAD-BOTTOM-HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 4" (100 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" (20 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- AAS RECOMMENDS THE USE OF FLEXFORM CATCH-IT INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-740 CONSTRUCTION GUIDE".
 - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-740 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-740 CONSTRUCTION GUIDE".
 - FILL 3" (75 mm) OF ESTABLISHED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDED STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "PUSH AND PULL" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-862-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED ELEVATIONS

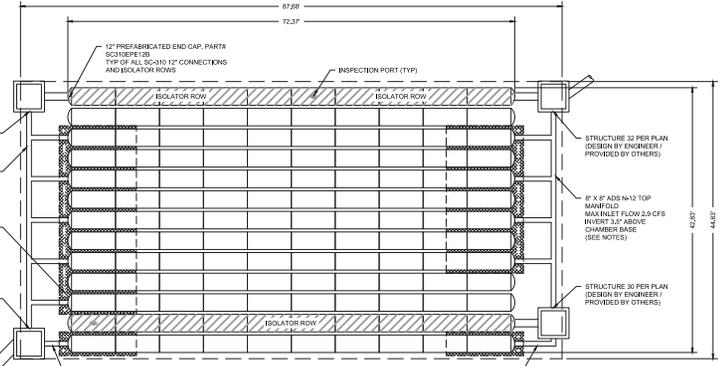
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	875.44
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	869.84
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	869.84
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	867.94
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	867.94
TOP OF STONE	867.44
TOP OF CHAMBER	867.44
#2 TOP MANHOLE INVERT	866.40
#2 ISOLATOR ROW INVERT	866.19
#2 BOTTOM CONNECTION INVERT	866.11
BOTTOM OF CHAMBER	865.61

NOTES

- MINIMUM SLOPE TO BE DETERMINED BY SITE DESIGN ENGINEER.
- SEE TECH SHEET #7 FOR MANHOLE SINKING GUIDANCE.

PROPOSED LAYOUT (SOUTH SYSTEM)

115' STORMTECH SC-310 CHAMBERS
 (26) STORMTECH SC-310 END CAPS
 INSTALLED WITH #2 COVER STONE & BASE STONE. 40% STONE VOID
 INSTALLED SYSTEM VOLUME: 3,412 CF (EXCLUDING BASE STONE)
 AREA OF SYSTEM: 3,831 FT²
 PERIMETER OF SYSTEM: 265 FT



ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	ANY SOLID ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. POWER INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDED STONE (IF LAYER 'D' IS 1'400 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOLID AGGREGATE FORTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LAYER 'C'.	AASHTO M1401 A-1, A-2.4, A-3 OR AASHTO M21 3.297, 4.487, 5.66, 6.7, 6.7, 6.7, 7.8, 8.9, 9.10	BEFORE COMPACTIONS AFTER 12\"/>
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-INCH (20mm) AND 1 1/2-INCH (38mm).	AASHTO M21 3.297, 4.487, 5.66, 5.7	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-INCH (20mm) AND 1 1/2-INCH (38mm).	AASHTO M21 3.297, 4.487, 5.66, 5.7	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. *

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR A STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (ASTM) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6\"/>

NOTES:

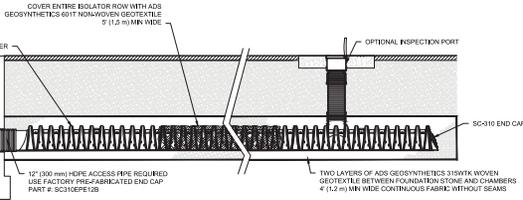
- SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2822 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
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- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOLID MATERIAL CAN BE PLACED ABOVE 'C' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

INSPECTION & MAINTENANCE

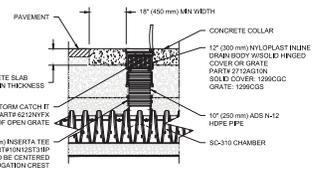
- INSPECT ISOLATOR ROW FOR SEDIMENT.
 - INSPECTION PORTS (IF PRESENT).
 - REMOVE COVER/LID ON UPSTREAM INLET DRAIN.
 - REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED.
 - USING A FLASHLIGHT AND STYMA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG.
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).
 - IF SEDIMENT IS AT, OR ABOVE, 3\"/>
- ALL ISOLATOR ROWS.
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW.
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE.
 - REWORKS ON PILES OR CAMERAS MAY BE USED TO VIEW A COME FINE SPACE ENTRY.
 - FOLLOW CORA REGULATIONS FOR COME FINE SPACE ENTRY IF ENTERING MANHOLE.
 - IF SEDIMENT IS AT, OR ABOVE, 3\"/>
- CLEAN OUT ISOLATOR ROW USING THE JET/VAC PROCESS.
 - IF FINED SOLIDITY CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED.
 - APPLY MULTIPLE PASSES OF JET/VAC UNTIL BACKLUSH WATERS CLEAR.
 - VACUUM STRUCTURE SNIPP AS REQUIRED.
- REPLACE ALL COVERS, GRATES, ALTERS, AND LOGS. RECORD OBSERVATIONS AND ACTIONS.
- INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

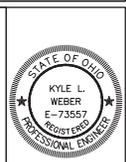
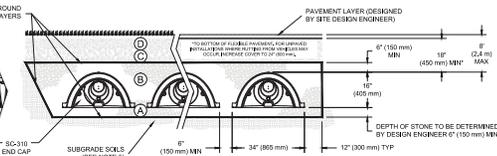
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-310 ISOLATOR ROW DETAIL



SC-310 INSPECTION PORT DETAIL



OHM ADVISORS, INC.
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HOME2 HOTEL
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 FRANTZ ROAD & STATE ROUTE 160, DUBLIN, OHIO

UNDERGROUND DETENTION DETAIL (SC-310)



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C111

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- GOOD HOUSEKEEPING**
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 - ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESELLABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THE PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, SWEEP PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIALLY MADE FOR THE PURPOSE.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT RUINRY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE WILL BE REPORTED TO THE EPA. SPILLS OF 100 OR MORE GALLONS OF PETROLEUM WASTE WILL BE REPORTED TO THE EPA AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.
- SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE TREATED/DISPOSED AT A DPO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDP).
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE

PETROLEUM PRODUCTS - ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DRIED AREA CAPABLE OF HOLDING 100% OF THE TANK CAPACITY.

FERTILIZERS - FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED, THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN.

PAILETS - ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

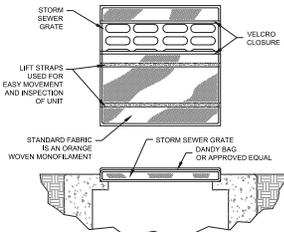
CONCRETE TRUCKS - CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LANDSCAPING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

- VEGETATIVE COVER AND MULCH** - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN BARE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LANDSCAPING WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING, PERMANENT SEEDING, HOLDING TREES/TREES AND TREE AND LANDSCAPE PROTECTION PRACTICES.
- WATERING** - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HALL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE LOCAL EROSION. WEEDING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- EROSION CHECKSHEET** - APPLY ADDENDUM ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURER'S INSTRUCTIONS.



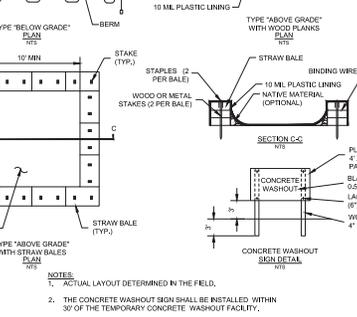
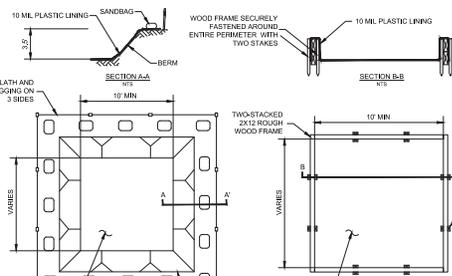
SPECIFICATIONS			
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4532	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4532	%	24 (5)
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
HEEL BURST STRENGTH	ASTM D 3796	609 (NPS)	3007 (680)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
TEAR STRENGTH	ASTM D 4535	%	60
APPARENT OPENING SIZE	ASTM D 4761	MM (STD. DEV.)	0.425 (0.0)
FLOW RATE	ASTM D 4481	TWINN (GAL/MIN/FT)	5007 (145)
PERMEABILITY	ASTM D 4481	%	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL DL ABSORBENTS, PLACE ABSORBENT FLOW OR POOL ON THE BOTTOM (OR UNDER) SIDE OF THE MATERIAL STORAGE AREA OF THE UNIT. AT EACH ABSORBENT FLOW TO TETHER LOOP, TUCK THE ENCLOSURE FLAP INWARD TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING STRAPS, REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL DL ABSORBENTS, REMOVE AND REPLACE ABSORBENT FLOW WHEN NEAR SATURATION.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND INTERIORITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL DL ABSORBENTS, REMOVE AND REPLACE ABSORBENT FLOW WHEN NEAR SATURATION.

DANDY BAG DETAIL

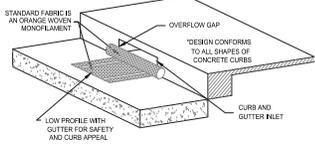
NTS



CONCRETE WASHOUT DETAIL

NTS

- ACTUAL LAYOUT DETERMINED BY THE FIELD.
- THE CONCRETE WASHOUT BOM SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



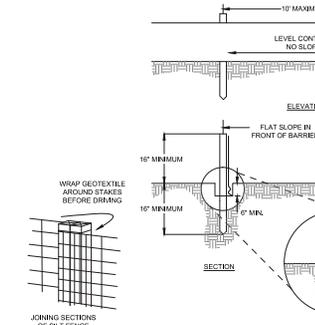
DANDY PRODUCTS BEAVER DAM DETAIL

NTS

INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: THE EMPTY BEAVER DAM SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL DL ABSORBENTS, PLACE ABSORBENT FLOW OR POOL ON THE BOTTOM (OR UNDER) SIDE OF THE MATERIAL STORAGE AREA OF THE UNIT. AT EACH ABSORBENT FLOW TO TETHER LOOP, TUCK THE ENCLOSURE FLAP INWARD TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING STRAPS, REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE BEAVER DAM AS NEEDED. IF USING OPTIONAL DL ABSORBENTS, REMOVE AND REPLACE ABSORBENT FLOW WHEN NEAR SATURATION.

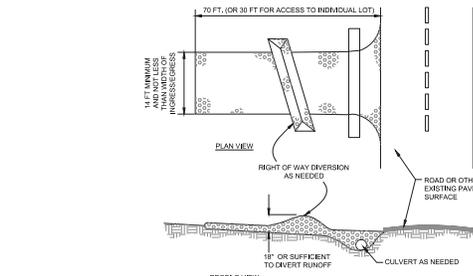
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND INTERIORITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE BEAVER DAM AS NEEDED. IF USING OPTIONAL DL ABSORBENTS, REMOVE AND REPLACE ABSORBENT FLOW WHEN NEAR SATURATION.



SILT FENCE DETAIL

NTS

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPROLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DEPRIVED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCE SHALL BE BROUGHT UP TO THE SURFACE SLIGHTLY SO THAT WATER POUNDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET OR AS MUCH AS POSSIBLE UP/DOWN FOR THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING TRINCHER, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 6 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 4-INCH OVERLAP PRIOR TO DRAINING INTO THE GROUND.



CONSTRUCTION ENTRANCE DETAIL

NTS

- STONE SIZE - 0007 (0.2-2 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 10 FT. EXCEPT FOR APPROX 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 14 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROOF-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH <td>30 LBS</td>	30 LBS
MINIMUM TEAR STRENGTH <td>40 LBS</td>	40 LBS
MINIMUM BURST STRENGTH <td>320 PSI</td>	320 PSI
MINIMUM ELONGATION <td>> 20%</td>	> 20%
EQUIVALENT OPENING SIZE <td>608X (0.6MM PERMITTIVITY)</td>	608X (0.6MM PERMITTIVITY)
PERMITTIVITY <td>1X17 CM/SEC</td>	1X17 CM/SEC

- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE. IT SHALL BE COMPOSED OF SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD UP ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS (DROPPED, WASHED, OR TRACKED) INTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS SHALL BE REMOVED IMMEDIATELY. ROADWAYS SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM EXISTING AND PREVENTIVE SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROAD OR ENTRANCE.

CRITERIA FOR SILT FENCE MATERIALS

- FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. SILT FENCE POSTS WILL BE SCAVENGE, NORMALLY DIMENSIONED, HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER WEAK SPOTS. THE POSTS SHALL BE DRIVEN INTO THE GROUND WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- SILT FENCE FABRIC - SEE CHART BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS./SQ. YD.	ASTM D 4532
MINIMUM ELONGATION	20%	ASTM D 4532
MINIMUM PUNCTURE STRENGTH	50 LBS./SQ. YD.	ASTM D 4833
MINIMUM TEAR STRENGTH	20 LBS./SQ. YD.	ASTM D 4533
APPARENT OPENING SIZE	< 0.075 MM	ASTM D 4761
PERMEABILITY	1X17 CM/SEC	ASTM D 4481
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4336

CONSTRUCTION ENTRANCE DETAIL

NTS



CONSTRUCTION ENTRANCE DETAIL

NTS

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THE KLEINGERS GROUP

CIVIL ENGINEERING SURVEYING LANDSCAPE ARCHITECTURE

300 Washington Rd. Ste B Westborough, MA 01581



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ARCHITECTS ENGINEERS PLANNERS
300 North Fourth Street
Suite 600
Columbus, OH 43215
614-462-1021
OHM-ADVISORS.COM

STATE OF OHIO
KYLE L. WEBER
REGISTERED PROFESSIONAL ENGINEER

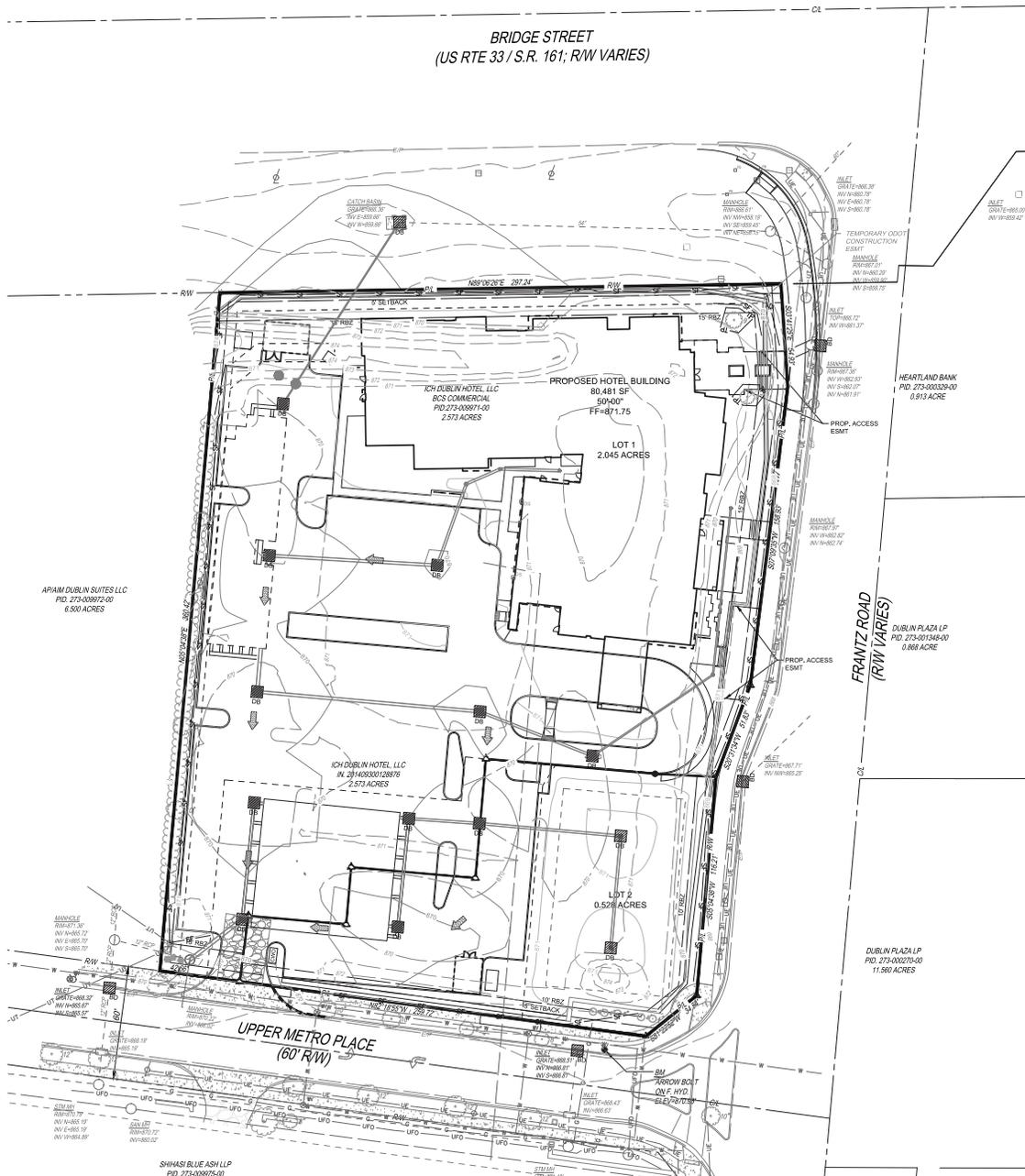
SCALE
SECTION
EROSION CONTROL NOTES AND DETAILS

CADD
CADD
CADD

HOME2 HOTEL
ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
FRANZ ROAD & STATE ROUTE 161, DUBLIN, OHIO

EROSION CONTROL NOTES AND DETAILS
C113

BRIDGE STREET
(US RTE 33 / S.R. 161; RW VARIES)



GRADING LEGEND

- (—) PROPOSED CONTOUR
- (—) EXISTING CONTOUR

PROPOSED SYMBOLS

- PROPOSED STORM SEWER PIPES
- PROPOSED CATCH BASIN
- PROPOSED YARD DRAIN
- ▨ PROPOSED DANDY BAG
- ▨ PROPOSED BEAVER DAM
- ▨ PROPOSED CONCRETE WASHOUT
- SF PROPOSED SILT FENCE
- TP PROPOSED TREE PROTECTION
- PROPOSED FLOOD ROUTE
- ▨ PROPOSED CONSTRUCTION ENTRANCE

ARAIM DUBLIN SUITES LLC
PID. 273-00972-00
6.300 ACRES

PROPOSED HOTEL BUILDING
60'-0" x 117'-5"
50'-0" x 117'-5"
FF=871.75

LOT 1
2.045 ACRES

ICH DUBLIN HOTEL, LLC
IN 2014169200128876
2.573 ACRES

LOT 2
0.528 ACRES

UPPER METRO PLACE
(60' RW)

FRANTZ ROAD
(RW VARIES)

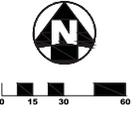
DUBLIN PLAZA LP
PID. 273-01348-00
0.888 ACRE

DUBLIN PLAZA LP
PID. 273-00270-00
11.580 ACRES

SHIVASHILIE ASH LLP
PID. 273-00973-00



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STATE OF OHIO
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E-73557
PROFESSIONAL ENGINEER

SCALE
DATE
REVISIONS

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ICH DUBLIN HOTEL, LLC - FINAL DEVELOPMENT/FINAL SITE SUBMITTAL
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