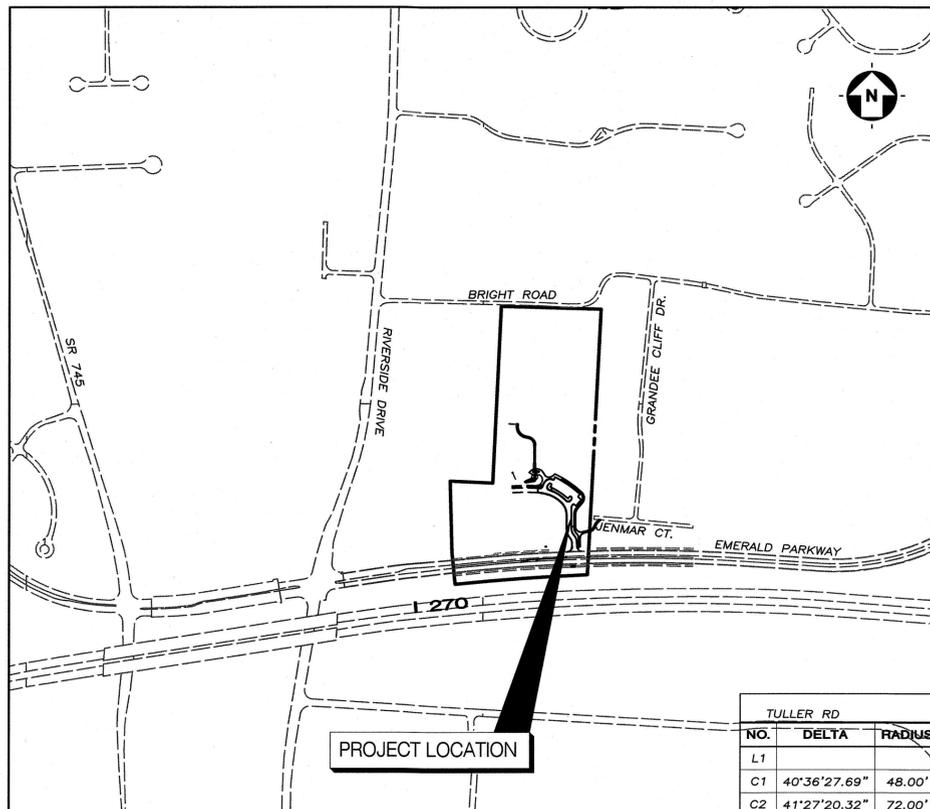


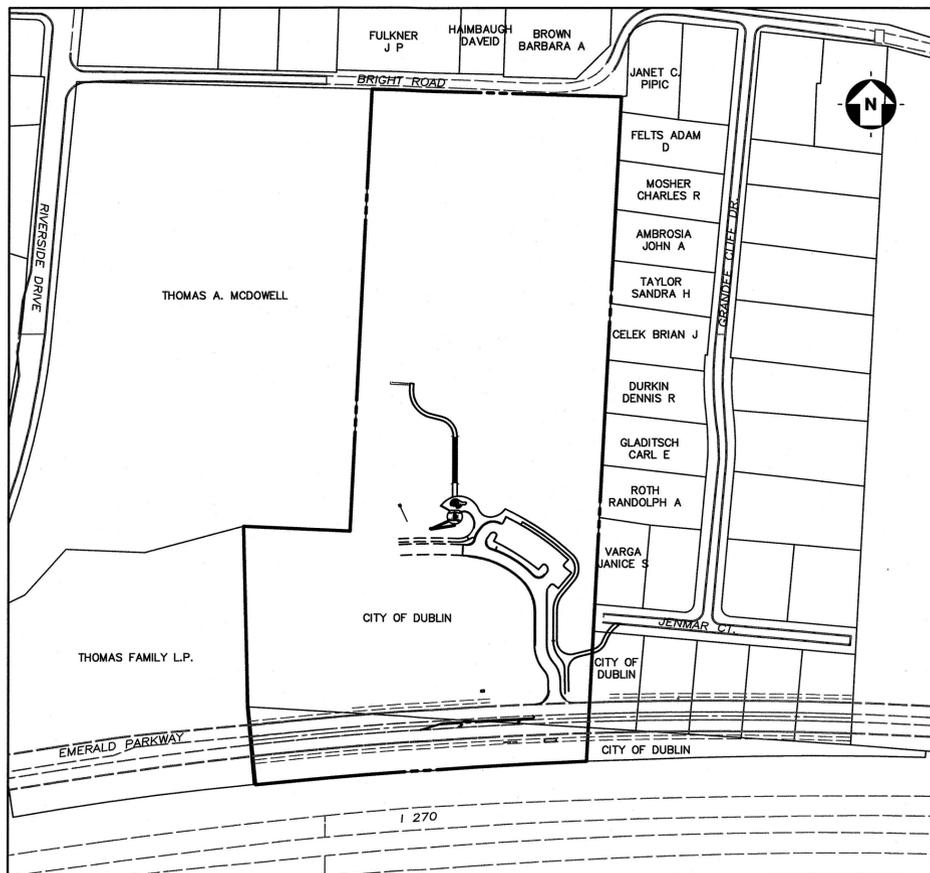
HOLDER WRIGHT PARK VISITOR ORIENTATION CENTER

DUBLIN, OHIO
NOVEMBER, 2016



LOCATION MAP
SCALE: 1"=500'

TULLER RD		
NO.	DELTA	RADIUS
L1		
C1	40°36'27.69"	48.00'
C2	41°27'20.32"	72.00'



INDEX MAP
SCALE: 1"=200'

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LIST OF STANDARD DRAWINGS:

THE STANDARD DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

2014 CITY OF DUBLIN		CITY OF COLUMBUS		QDOT
ST-01	RD-01	AA-S125B	L-1001	2190
ST-02	RD-05	AA-S128	L-1003	2203
ST-04	RD-06	AA-S133A	L-1004	
ST-05	RD-07	AA-S134B	L-6306	
WA-01	RD-10	AA-S139	L-6309A	
	RD-11	AA-S151	L-6309B	
	SA-03	AA-S161	L-6310	
		AA-S166	L-6311	
		AA-S168	L-6312	
		AA-S169	L-6316A	
			L-6317D	
			L-6409A	
			L-6637A	
			L-6640	
			L-7001	
			L-8503	
			L-9002E	
			L-9901	

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF AN ASPHALT SERVICE DRIVEWAY, PARKING LOT, RESTROOM FACILITY, ASPHALT PATHS, SPECIALTY CONCRETE PATIO, ASSOCIATED UTILITIES, EROSION CONTROL AND OTHER APPURTENANCES FOR A COMPLETE PARK FACILITY.

BASIS OF BEARINGS

BEARINGS ARE BASED ON DATA ACQUIRED BY GPS OBSERVATIONS AS PER NAD 83 (2011)-OHIO STATE PLANE COORDINATE SYSTEM-NORTH ZONE USING MONUMENT QHMA FROM THE OHIO DEPARTMENT OF TRANSPORTATION CORRS NETWORK.

SURVEY NOTE

UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD MARKINGS (BY OTHERS) AND AVAILABLE RECORDS AND AS SUCH, SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

TOPOGRAPHIC SOURCES:

CT CONSULTANTS, MARCH 2015

FLOOD DESIGNATION

SUBJECT PROPERTY LIES WITHIN ZONES "AE" AN AREA DESIGNATED AS INSIDE THE 500 YEAR FLOODPLAIN, AND ZONE X AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY, FIRM, COMMUNITY PANEL NO. 39049C0151K, JUNE 17, 2008.

PARCEL INFORMATION

ADDRESS:
4729 BRIGHT ROAD
DUBLIN, OH 43017

PID# 273008414
TAX DISTRICT: 273
LAND USE: 640
LOT ACREAGE: 18.83 ACRES
LOT COVERAGE: 0.66 ACRES

OWNER/DEVELOPER

CITY OF DUBLIN
MATT EARMAN,
PARKS & RECREATION DEPARTMENT DIRECTOR
6555 SHIER-RINGS ROAD
DUBLIN, OH 43016
VOICE: 614-410-4700

ENGINEER

CT CONSULTANTS
7965 N. HIGH STREET, SUITE 340
COLUMBUS, OHIO 43235
ATTN: MATT SIMPSON
VOICE: 614-885-1700
FAX: 614-885-1701

SIGNATURES - CITY OF DUBLIN

PARKS & RECREATION DEPARTMENT DIRECTOR _____ DATE _____

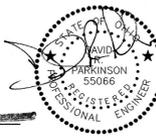
CITY ENGINEER - PAUL A. HAMMERSMITH, P.E. _____ DATE _____

SIGNATURES - CITY OF COLUMBUS

ADMINISTRATOR, DIVISION OF WATER _____ DATE _____

SIGNATURE ABOVE SIGNIFIES ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

[Signature]
DAVID R. PARKINSON, P.E.



11.2.16
DATE



1-800-362-2764
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)
TICKET NO. = A500600174
A500600179

CT Consultants
engineers | architects | planners

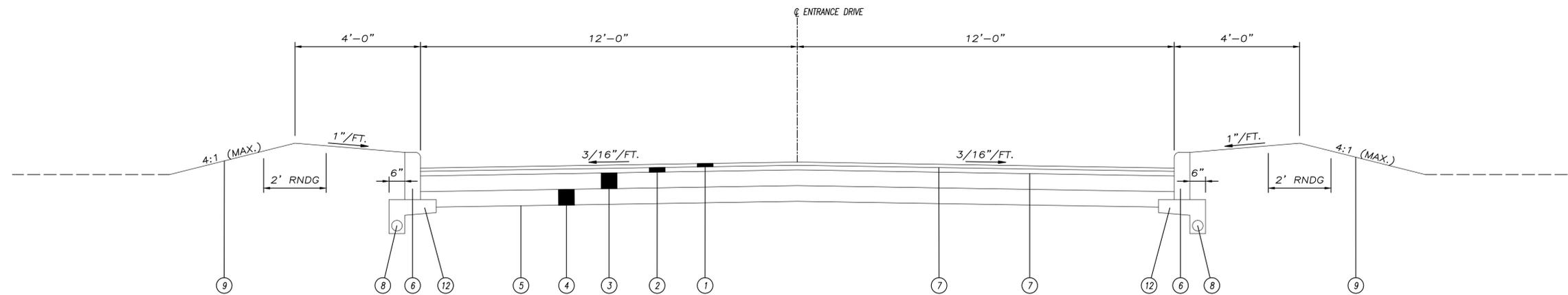


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			HORIZ.	VERT.			
			NTS	NTS	MBS	MBS	DRP

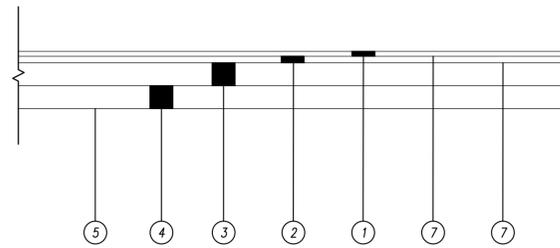
HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
4729 BRIGHT RD, DUBLIN OH 43017

PROJECT NO:	
14626	
SHEET	OF
1	15

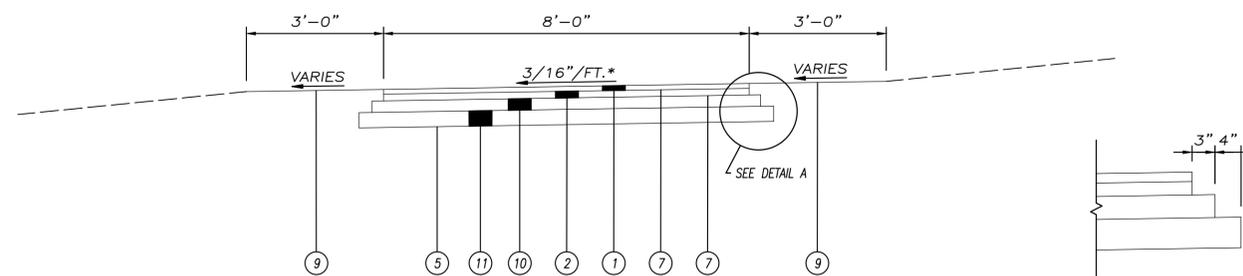
15-026-CIP



ENTRANCE DRIVE TYPICAL SECTION
STA. 0+00 TO STA. 4+52.69



PARKING LOT TYPICAL SECTION



* SLOPE PATH TOWARDS PARKING LOT, EMERALD PARKWAY, OR AS SHOWN ON THE GRADING PLAN.

ASPHALT PATH TYPICAL SECTION

DETAIL A

LEGEND

- | | |
|--|--|
| ① ITEM 448 - 1.25" ASPHALT CONCRETE SURFACE COURSE (MEDIUM TRAFFIC), PG64-22 | ⑦ ITEM 407 - TACK COAT (APPLIED @ 0.06 GAL./S.Y.) |
| ② ITEM 448 - 1.75" ASPHALT CONCRETE SURFACE COURSE (MEDIUM TRAFFIC), PG64-22 | ⑧ ITEM 605 - 4" PIPE UNDERDRAIN, PER ODOT 707.31 OR 707.33 |
| ③ ITEM 301 - 6" ASPHALT CONCRETE BASE | ⑨ ITEM 659 - SEEDING AND MULCHING |
| ④ ITEM 304 - 6" AGGREGATE BASE | ⑩ ITEM 301 - 3" ASPHALT CONCRETE BASE |
| ⑤ ITEM 204 - SUBGRADE COMPACTION | ⑪ ITEM 304 - 4" AGGREGATE BASE |
| ⑥ ITEM 609 - STRAIGHT 18" CONCRETE CURB (AS PER SCD RD-11) | ⑫ #57 CRUSHED AGGREGATE (AS PER SCD RD-11) |

NO.	REVISION	DATE

HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
4729 BRIGHT RD, DUBLIN OH 43017

PROJECT NO: 14626	
SHEET 2	OF 15

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GENERAL NOTES

- 1. THE CITY OF DUBLIN, CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS AND ANY SUPPLEMENTS THERETO (SPECIFICATIONS), (GENERAL CONDITIONS), (SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
2. THE CITY ENGINEER WILL NOT 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 AT THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING 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 EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE RE-TESTING COMPANY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" 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 SEALED THE CONSTRUCTIONS DRAWINGS.
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 MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING OF MARKERS WHICH SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
9. NON-RUBBER Tired 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 EXISTING. DRAINAGE DITCHES OR DRAINAGE DITCHES OR OTHER WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, 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 SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED EXCEPT AS SPECIFIED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AS 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 HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS AND TO ITEM 636 OF THE STANDARD SPECIFICATIONS. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCTS TO THE DIVISION OF ENGINEERING BEFORING CONSTRUCTION. SHOULD OPEN CUTTING OF THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION
CITY OF COLUMBUS
1800 EAST 17TH AVENUE
COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING
CITY OF DUBLIN
4800 SHER RINGS ROAD
DUBLIN, OHIO 43016

- 18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS. TRENCHES SHALL BE BACKFILLED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - 12 INCHES OR GREATER IN DBH (DIAMETER GREATEST AT DBH) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
PAYMENT FOR THE ABOVE WORK SHALL BE MADE UNDER ITEM SPECIAL: TREE PROTECTION FENCE.
20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE 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 636 OF THE STANDARD SPECIFICATIONS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION 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. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 444 OF A AND B DRAWINGS. THE REPLACEMENT 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 BROKEN 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 FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
GERMINATION RATE: 85%
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 TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.
29. STRAIGHT 18" CONCRETE CURB SHALL BE AS PER CITY OF DUBLIN SCD RD-11.
30. CONCRETE PARKING BLOCKS SHALL BE AS PER THE DETAIL SHOWN ON SHEET 3 AND SHALL BE PAID FOR UNDER ITEM SPECIAL: CONCRETE PARKING BLOCK.

UTILITIES

- 1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:
TELEPHONE: POWER: CABLE TV:
111 NORTH 4TH ST. AMERICAN ELECTRIC POWER 3670 INTERCHANGE ROAD
COLUMBUS, OHIO 43215 DISTRIBUTION CITY OF COLUMBUS 5800 SHER RINGS ROAD
ATTN: TOM ZIOMEK GANNAHA, OHIO 43204 ATTN: RAY MAURER
PHONE: 614-223-7162 ATTN: ROD SLOANEKER PHONE: 614-481-5262
XO COMMUNICATIONS GAS: WATER:
10 WEST BROAD STREET, COLUMBIA GAS OF OHIO CITY OF COLUMBUS
SUITE 300 COLUMBIA GAS OF OHIO 3350 JOHNNY APPELSEED CT. DIVISION OF WATER
COLUMBUS, OHIO 43215 ATTN: BILL MARTIN 910 DUBLIN ROAD
PHONE: 614-416-1703 ATTN: MIKE SUCHARSKI COLUMBUS, OHIO 43215
PHONE: 614-883-6817 PHONE: 614-645-7788
MCI COMMUNICATIONS DUBLINK DEVELOPMENT
144 MERCHANT STREET CITY OF DUBLIN
CINCINNATI, OHIO 45246 5800 SHER RINGS ROAD
PHONE: 513-719-5200 PHOEN: 614-410-4618

- 2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 682-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
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 NOTIFY THE OWNER AND THE CITY ENGINEER.
6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, 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 (OMUTCD), CURRENT EDITION.
2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED OTHERWISE BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE RESPONSIBLE WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CONTRACTOR SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS 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 OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLED COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROTECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT 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 FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL 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 GROUND 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 REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, AND THE OWNER AND THE CITY ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

- 1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE

PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

- 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-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES 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-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR_N_TEE OR KOR_N_SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III 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 BOLT-DOWN LIDS ARE REQUIRED. SANDWICH 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 901.21 OF THE STANDARD SPECIFICATIONS.
9. TEMPORARY BULKHEADS SHALL BE PLACED IN 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 OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PRACTICALLY TIGHT SANITARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
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. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
13. VISIBLE 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 51.23 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. SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES. TRENCH BACKFILL 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 CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT IS INTENDED.
17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
20. 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 WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
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 II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
3) LINK-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 DIVISION OF WATER.
2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.
3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS AND CITY OF DUBLIN SCD WA-01 WILL BE APPROVED FOR USE.
4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) TESTS OF "AS-BUILT" AND Q LETTER STATISTICS. THE TWO LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER

THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

- 6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN SCD WA-01. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.
7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE MADE TO EXISTING WATER LINES SERVING PUBLIC WATER MAINS. THE SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
9. ALL WATER MAIN STATIONING SHALL BE BASED ON WATERLINE CENTERLINE STATIONING.
10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
11. 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 SERVICE. THE CITY OF COLUMBUS DIVISION OF SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIPING INSTALLATION IS APPLICABLE TO THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.
13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY, OR AS OTHERWISE SHOWN ON THE PLANS, AND SET AT FINISHED GRADE.
15. 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 ELEVATION.
16. 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 DEPTHS AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
17. TWO 3/4 INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.
18. CONTRACTOR SHALL PROVIDE AND INSTALL ALL 6" WATER LINE LEADS AND NIPPLES FOR THE PROPER INSTALLATION OF THE FIRE HYDRANT SETTINGS. NO SEPARATE PAYMENT SHALL BE MADE THEREFOR AND ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 809, FIRE HYDRANT.

STORM SEWER

- 1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES TO 36 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
5. HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS. PRACTICABLE. SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES. TRENCH BACKFILL 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 CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER." AS SHOWN ON CITY OF DUBLIN SCD ST-04.
7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES AS PER CITY OF DUBLIN SCD ST-02 AND APPROVED BY THE CITY ENGINEER.

MAIL 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 RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR PROVISION OF NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
2. BEFORE RELOCATING ANY 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

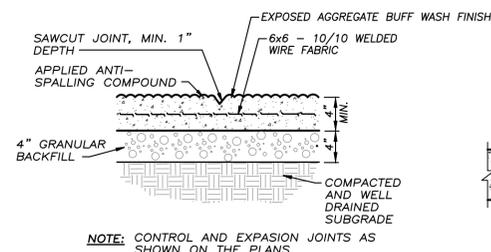
- 1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK. PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO 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 ESTIMATE IS 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 SIAMISE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

CONCRETE BUFF WASH FINISH:

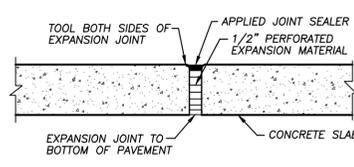
MONOLITHIC EXPOSED-AGGREGATE FINISH (A.K.A. BUFF WASH): EXPOSED FINE AGGREGATE IN PAVEMENT SURFACE AS FOLLOWS:

- 1. IMMEDIATELY AFTER FINAL TROWELING, SPARY-APPLY CHEMICAL SURFACE RETARDER TO PAVEMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. AT THE CONTRACTOR'S DISCRETION AND WITHOUT DISLOGGING AGGREGATE, REMOVE MORTAR PASTE BY EITHER LIGHTLY BRUSHING SURFACE WITH A STIFF, NYLON-BRISTLE MORTAR WHILE RINSING THE WATER; OR BY USING A POWER SCRUBBER AND WATER, OR BY USING A POWER WASHER WITH THE PROPER NOZZLE TO MINIMIZE STREAKING THE SURFACE.
3. REPEAT SURFACE WITH WATER AND BRUSH IF NEEDED. REPEAT WATER FLUSHING AND BRUSHING CYCLE UNTIL CEMENT FILM IS REMOVED AND AGGREGATE SURFACES TO DEPTH REQUIRED AND THAT THE APPEARANCE OF THE FINISH CONCRETE MATCHES THAT OF THE APPROVED SAMPLES.
4. FINISHES SHALL BE APPLIED TO ALL SURFACES THAT HAVE A SMOOTH APPEARANCE.
5. FINISHES NOT NOTED TO BE A "STANDARD" FINISH SHALL BE VERY LIGHTLY BROOMED.
6. SEAL FINISH CONCRETE ONLY AFTER CURING PERIOD IS OVER.
7. CONTRACTOR TO SUBMIT A SAMPLE FOR THE OWNER'S APPROVAL PRIOR TO INSTALLATION.

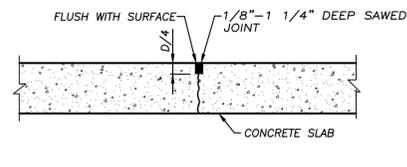
CT Consultants architects planners
engineers
HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
4729 BRIGHT RD, DUBLIN OH 43017
PROJECT NO: 14626
SHEET 3 OF 15
GENERAL NOTES



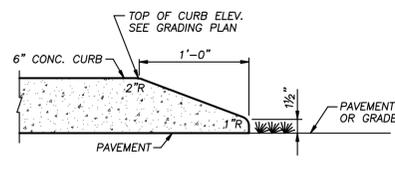
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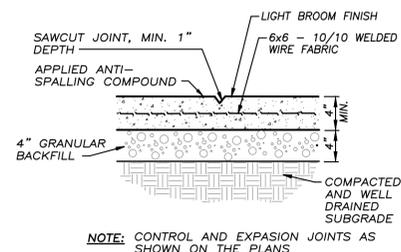
EXPANSION JOINT DETAIL
NTS



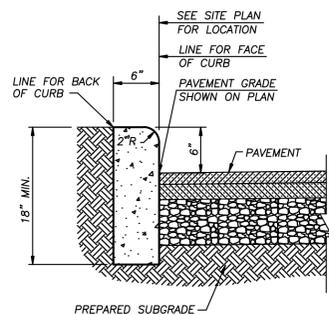
CONTRACTION JOINT
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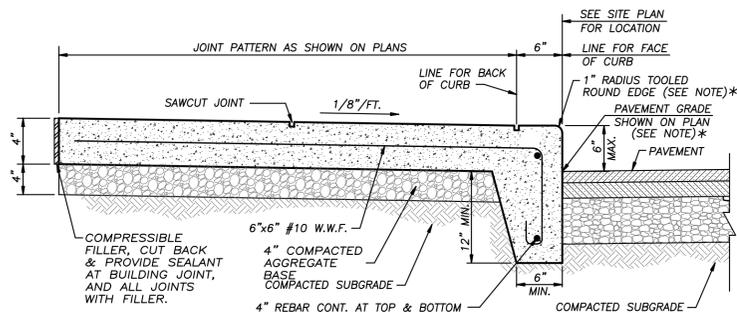
CONCRETE CURB END TAPER
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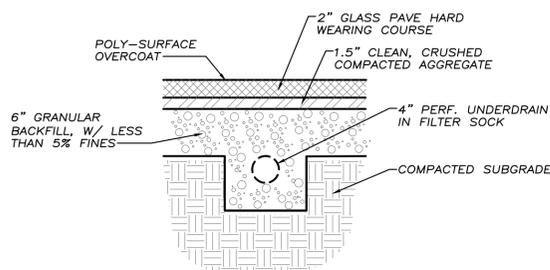
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VERTICAL CURB
NTS

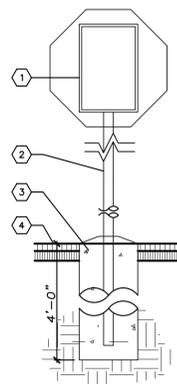


INTEGRAL WALK AND CURB
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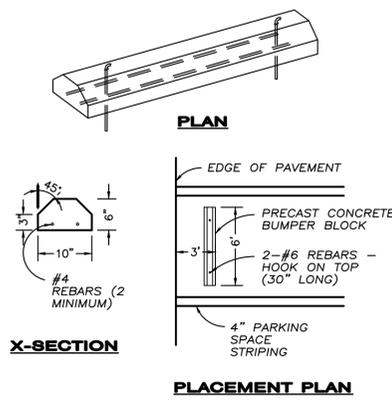
GLASS FILTER PAVE
NTS

- NOTE:**
- GLASS FILTER PAVE TO BE BY FILTERPAVE PRODUCTS LLC. ONLY GLASS PURCHASED THROUGH FILTERPAVE PRODUCTS OR AN AUTHORIZED AGENT IS ACCEPTABLE. COLOR TO BE SEDONA RED. CONTACT: FILTER PAVE, SCOTT WENDLING, (573) 228-9025, CELL: (573) 219-0127
 - INSTALL PER MANUFACTURER'S SPECIFICATIONS/INSTRUCTIONS.
 - THE BINDER SHALL BE MANUFACTURED SPECIFICALLY FOR USE IN THE FILTERPAVE POROUS PAVEMENT SYSTEM.
 - CONTRACTOR SHALL SUBMIT PRODUCT CUT SHEETS AND COLOR SAMPLE FOR THE OWNER'S APPROVAL PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL FORM THE "BIRD CLAW" FOR THE OWNER'S APPROVAL PRIOR TO INSTALLATION OF CONCRETE AND/OR FILTER PAVE.
 - FILTER PAVE SHALL BE INSTALLED BY A CERTIFIED FILTERPAVE INSTALLER.

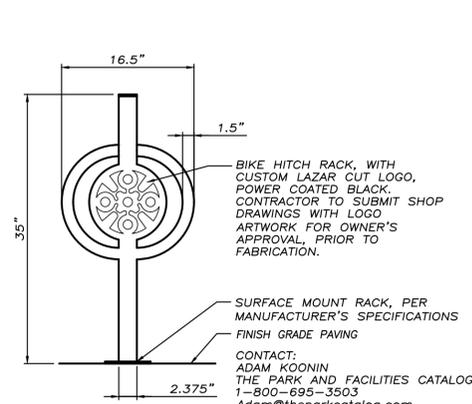


TRAFFIC DIRECTIONAL SIGN
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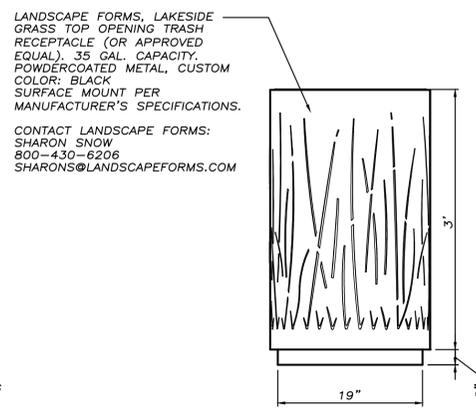
- KEYED NOTES:**
- TRAFFIC DIRECTIONAL SIGN, AS PER ITEM 630.
 - 2" X 2" STEEL TUBE, AS PER ITEM 630 EXTENDED INTER CONCRETE FILLED 4" PIPE.
 - 12" X 12" CONCRETE FOUNDATION 6" BELOW FROST LINE (4 FT. MINIMUM BELOW FIN. GRADE).
 - FINISHED GRADE.



PARKING BLOCK DETAIL
NTS



BIKE RACK DETAIL
NTS



TRASH REC. DETAIL
NTS

ESTIMATE OF QUANTITIES

ITEM	QTY	UNIT	DESCRIPTION
SITE PREPARATION			
201	1	LS	CLEARING AND GRUBBING
202	81	LF	CURB REMOVED
202	75	LF	PIPE REMOVED
202	311	SY	PAVEMENT REMOVED
SPEC	790	LF	TREE PROTECTION FENCE
PAVEMENT			
203	1585	CY	EXCAVATION
203	2600	CY	EMBANKMENT
204	2612	SY	SUBGRADE COMPACTION
204	5	HR	PROOF ROLLING
301	435	CY	ASPHALT CONCRETE BASE
304	435	CY	AGGREGATE BASE
407	314	GAL	TACK COAT
448	127	CY	ASPHALT CONCRETE, INTERMEDIATE COURSE, (MEDIUM TRAFFIC) PG64-22
448	91	CY	ASPHALT CONCRETE, SURFACE COURSE, (MEDIUM TRAFFIC) PG64-22
452	97	SY	8" NON-REINFORCED CONCRETE PAVEMENT
609	886	LF	STRAIGHT 18" CONCRETE CURB
609	97	LF	INTEGRAL CURB AND WALK
625	64	LF	CONDUIT SLEEVE, 2" (FOR FUTURE LIGHTING)
642	486	LF	4" PARKING LOT STRIPING (WHITE)
642	12	LF	STOP LINE
642	2	EA	ADA PAVEMENT MARKING
659	5,000	SY	SEEDING AND MULCHING
SPEC	1	EA	TRAFFIC DIRECTIONAL SIGN (STOP SIGN)
SPEC	2	EA	TRAFFIC DIRECTIONAL SIGN (ADA SIGN)
SPEC	34	EA	CONCRETE PARKING BLOCKS
PLAZA			
203	112	CY	EXCAVATION
204	505	SY	SUBGRADE COMPACTION
304	57	CY	AGGREGATE BASE
608	4582	SF	CONCRETE WALK (BUFF WASH FINISH)
608	4582	SF	CONCRETE WALK (STANDARD CONCRETE FINISH) ALTERNATE BID
SPEC	276	SF	FILTER PAVE SPECIALTY PAVING
SPEC	4	EA	BIKE RACK
SPEC	1	EA	TRASH RECEPTACLE
SPEC	2	EA	INTERPRETIVE SIGN (PROVIDED BY OWNER, INSTALLED BY CONTRACTOR)
UTILITIES			
602	3	EA	HEADWALL
603	40	LF	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET
604	3	EA	CATCH BASIN
604	3	EA	CURB INLET
604	1	EA	OUTLET CONTROL STRUCTURE
605	956	LF	4 INCH PIPE UNDERDRAIN
801	603	LF	8 INCH WATER PIPE AND FITTINGS
802	2	EA	6 INCH VALVE AND APPURTENANCES
802	1	EA	8 INCH VALVE AND APPURTENANCES
803	1	EA	12 INCH X 8 INCH TAPPING SLEEVE AND VALVE AND APPURTENANCES
805	1	EA	2 INCH WATER SERVICE TAP COMPLETE, AS PER PLAN
808	1	EA	PLUG 8 INCH WATER LINE
809	2	EA	FIRE HYDRANT
901	471	LF	6" SANITARY SERVICE
901	109	LF	12" PIPE, WITH TYPE I BEDDING
901	200	LF	15" PIPE, WITH TYPE I BEDDING
901	295	LF	18" PIPE, WITH TYPE I BEDDING
915	4	EA	SANITARY CLEANOUT
SPEC	140	LF	WATER LINE CASING PIPE, JACK AND BORE
SPEC	1	LS	ELECTRIC SERVICE
ASPHALT PATH (STANDARD)			
203	230	CY	EXCAVATION
204	825	SY	SUBGRADE COMPACTION
204	2	HR	PROOF ROLLING
301	69	CY	ASPHALT CONCRETE BASE
304	92	CY	AGGREGATE BASE
407	99	GAL	TACK COAT
409	70	LF	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS
448	29	CY	ASPHALT CONCRETE, SURFACE COURSE (MEDIUM TRAFFIC) PG64-22
448	40	CY	ASPHALT CONCRETE, INTERMEDIATE COURSE (MEDIUM TRAFFIC) PG64-22
608	90	SF	CONCRETE WALK (4")
EROSION CONTROL			
207	1280	LF	STRAW WATTLE BARRIER
207	7	EA	INLET PROTECTION
207	1	EA	CONCRETE WASHOUT
207	1	EA	CONSTRUCTION ENTRANCE
207	5	CY	ROCK CHANNEL PROTECTION, TYPE C
207	1	EA	SEDIMENT BASIN
MISCELLANEOUS			
614	1	LS	MAINTAINING TRAFFIC
624	1	LS	MOBILIZATION
SPEC	1	LS	SANITARY CAPACITY CHARGES
SPEC	1	LS	WATER CAPACITY CHARGES
SPEC	1	LS	RESTROOM ARCHITECTURE (SEE BUILDING PLANS)
SPEC	1	LS	LANDSCAPING (SEE PLANTING PLANS)
SPEC	1	LS	PEDESTRIAN BRIDGE (SEE BRIDGE PLANS)

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			N/A	N/A	N/A	11/1/16	MBS	MBS	DRP

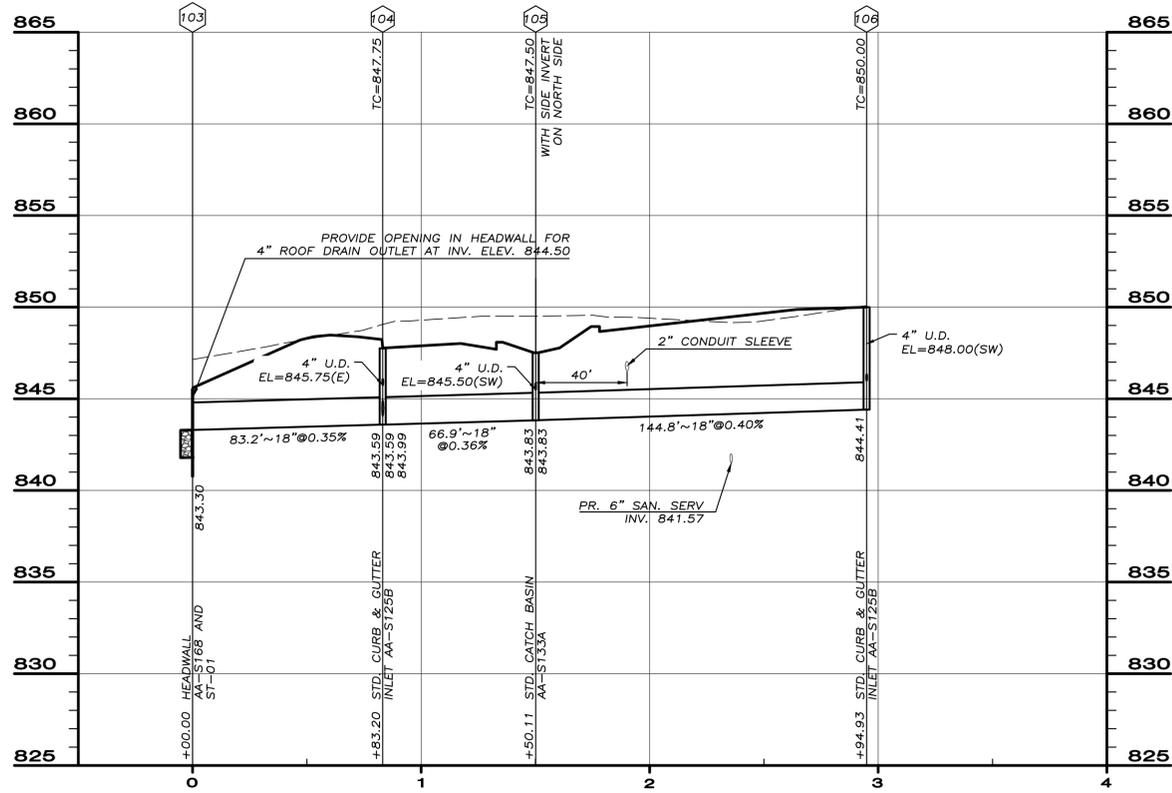
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VISITOR ORIENTATION CENTER
4729 BRIGHT RD, DUBLIN OH 43017

QUANTITIES & SITE DETAILS

PROJECT NO:	
14626	
SHEET	OF
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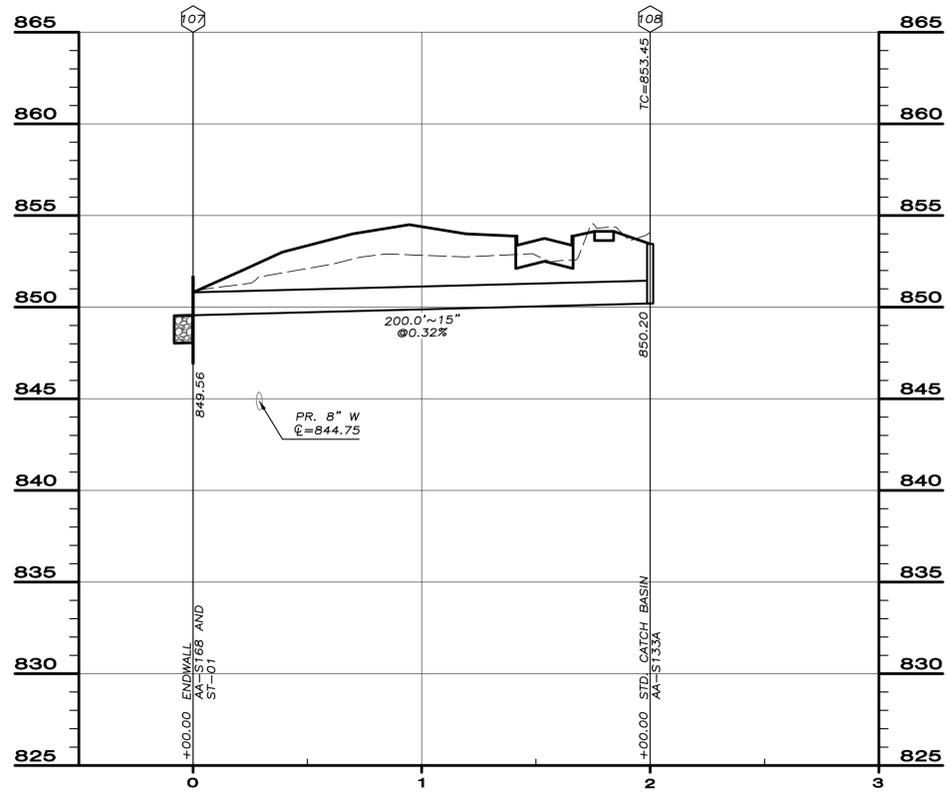
THE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO PREPARING AND SUBMITTING HIS BID. ANY ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS INDICATED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST INCLUDED IN THE PRICE BID FOR VARIOUS RELATED ITEMS.

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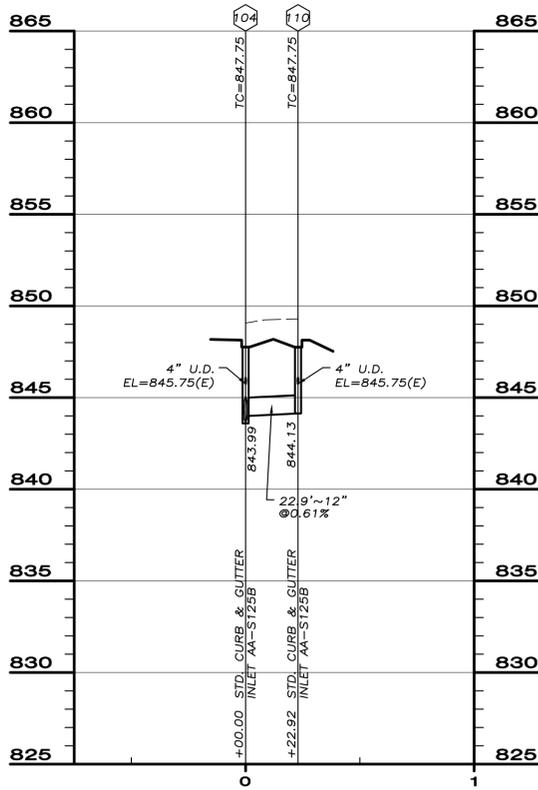
STORM SEWER PROFILE - RUN 1

SCALE: 1" = 40' HORZ
1" = 05' VERT



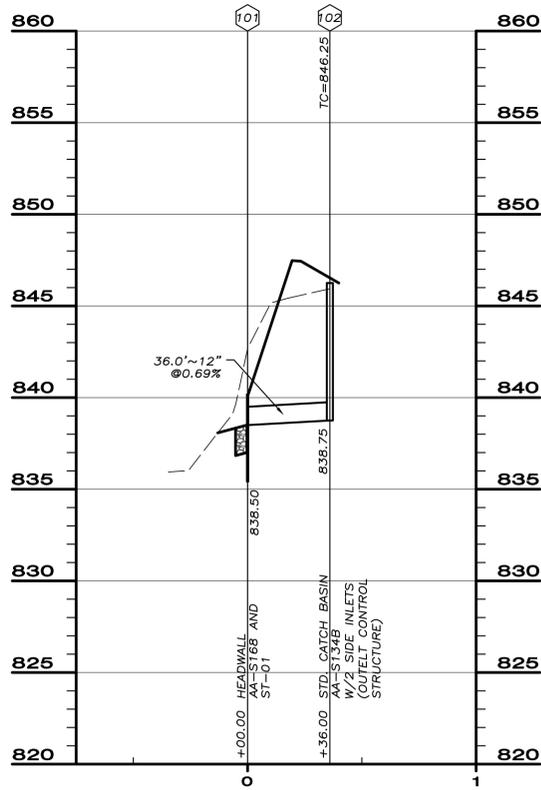
STORM SEWER PROFILE - RUN 2

SCALE: 1" = 40' HORZ
1" = 05' VERT



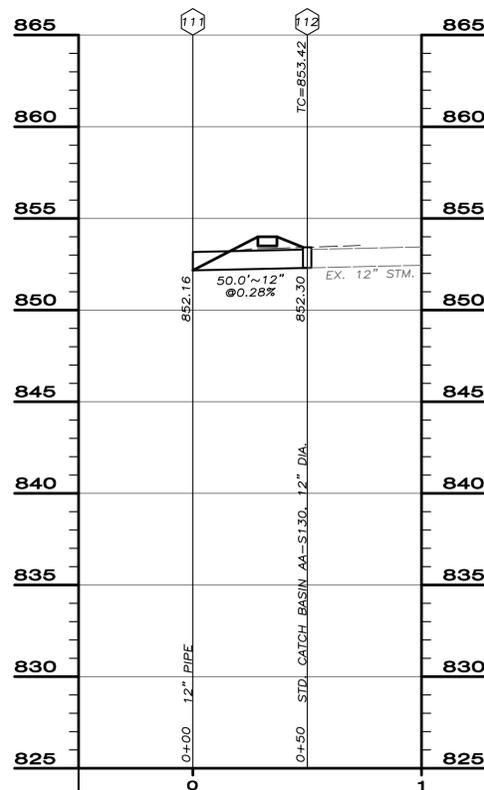
STORM SEWER PROFILE - RUN 3

SCALE: 1" = 40' HORZ
1" = 05' VERT



STORM SEWER PROFILE - RUN 4

SCALE: 1" = 40' HORZ
1" = 05' VERT



STORM SEWER PROFILE - RUN 5

SCALE: 1" = 40' HORZ
1" = 05' VERT

DATE

REVISION

NO.

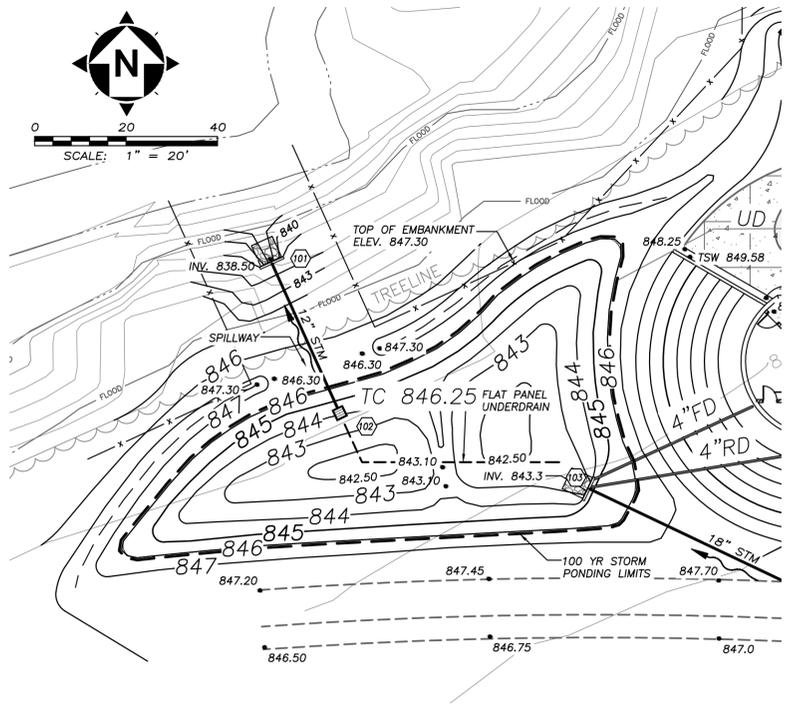
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• HORZ: 1" = 40'
• VERT: 1" = 05'
DATE: 11/1/16
DESIGNED BY: MBS
DRAWN BY: MBS
CHECKED BY: DRP

HOLDER WRIGHT PARK
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STORM SEWER PROFILES

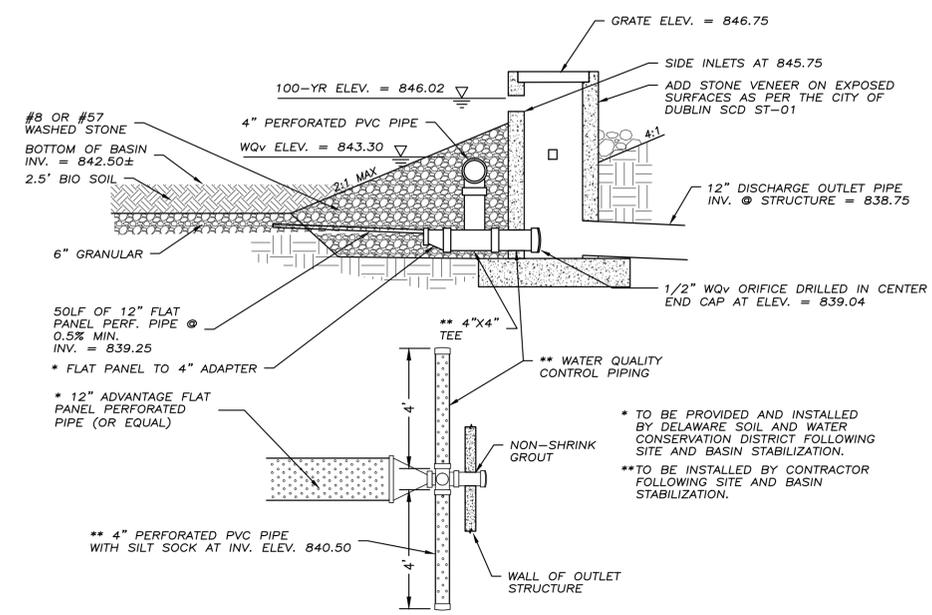
PROJECT NO:
14626

SHEET **8** OF **15**

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BIO-RETENTION BASIN PLAN
SCALE 1" = 20'



BASIN OUTLET CONTROL STRUCTURE
NTS

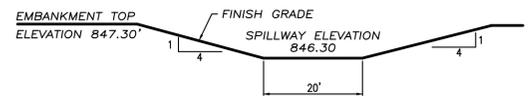
BIO-RETENTION BASIN						
YR	2	5	10	* 25	50	100
RELEASE RATE (CFS)	0.98	1.13	1.23	1.35	2.22	3.55
ALLOWABLE RELEASE RATE (CFS)	1.36	1.36	1.36	1.36	5.88	6.94

* CRITICAL STORM = 25 YR

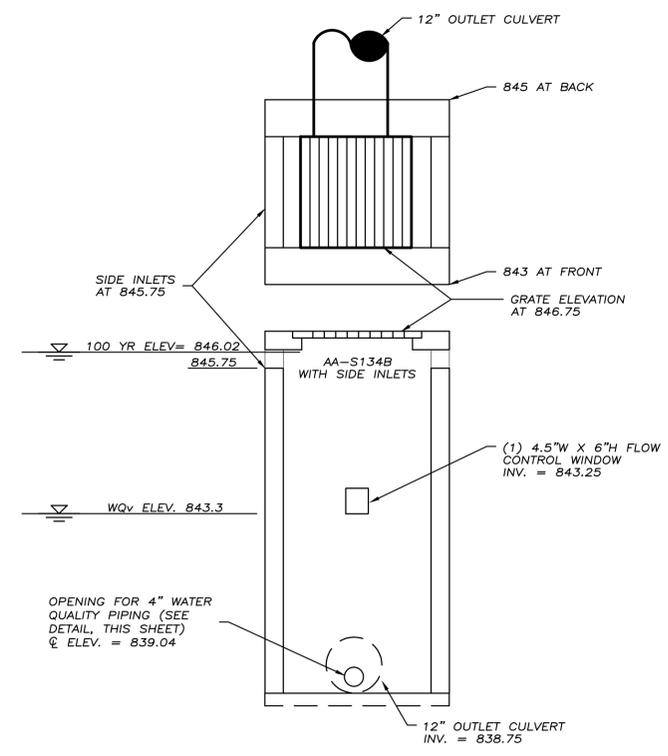
BIO-RETENTION BASIN		
ELEVATION	AREA (SF)	CUMULATIVE VOLUME (CF)
842.50	264	0
843.00	1316	375
843.50	1832	1162
844.00	2312	2198
845.00	3144	4926
846.00	4112	8554
847.00	5276	13248

BIO-RETENTION BASIN DATA	
100 YR STM WATER SURFACE ELEV.	846.05
MAX OUTFLOW @ 100 YR STM	3.55
STORAGE REQUIRED (CF)	8753
STORAGE PROVIDED (CF) AT ELEVATION 846.30	9962
WATER QUALITY VOLUME (WQV) WATER SURFACE ELEV.	843.3
WQV STORAGE REQUIRED (CF)	1486
WQV STORAGE PROVIDED (CF)	1516

SEDIMENT BASIN DATA	
DEVELOPED ACREAGE	1.36
STORAGE REQUIRED (CF)	2387
STORAGE PROVIDED (CF)	7647



EMERGENCY SPILLWAY FOR BASIN
NTS



BASIN OUTLET CONTROL STRUCTURE
NTS

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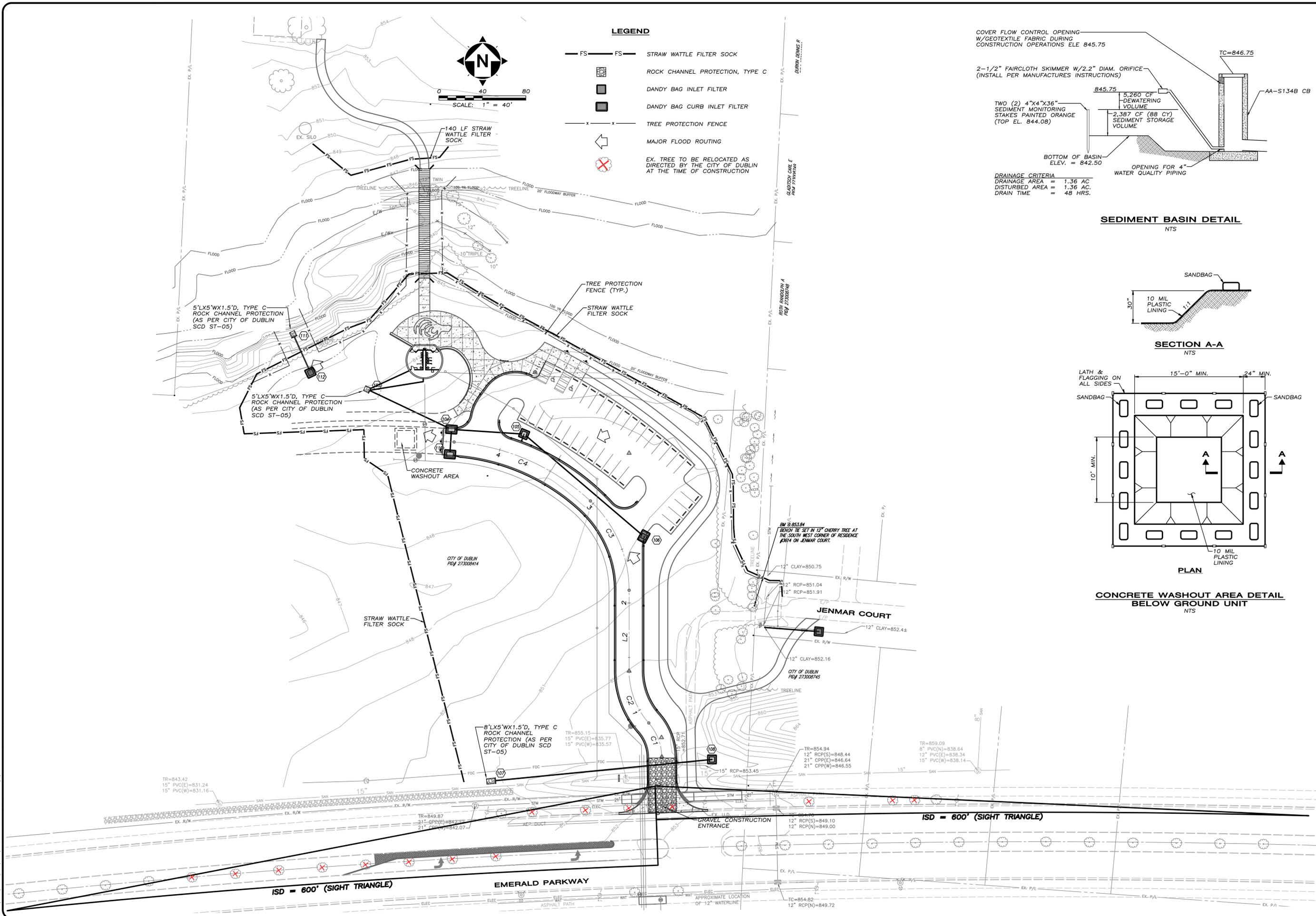
NO.	REVISION	DATE

DRAWING SCALE:
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 * VERT: N/A
 DATE: 11/11/16
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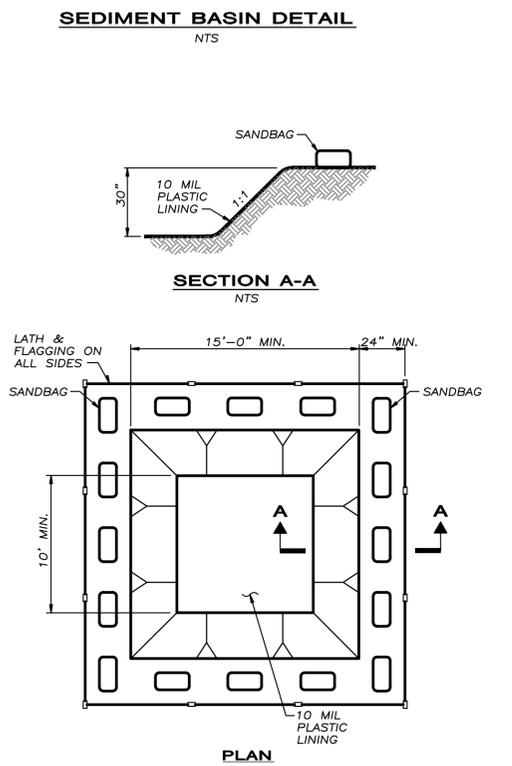
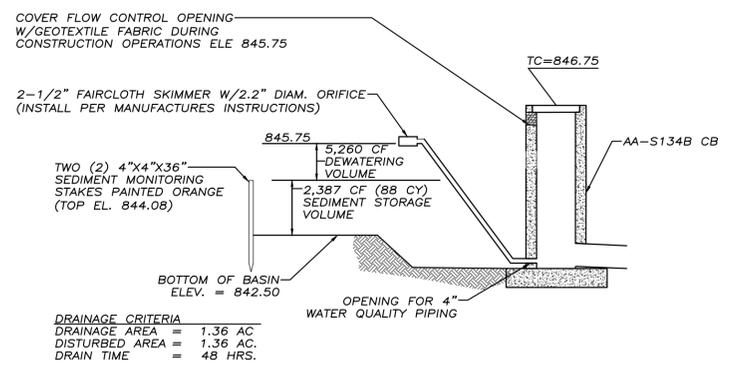
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BASIN DETAILS

PROJECT NO:	
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- LEGEND**
- FS — FS — STRAW WATTLE FILTER SOCK
 - [Pattern] ROCK CHANNEL PROTECTION, TYPE C
 - [Pattern] DANDY BAG INLET FILTER
 - [Pattern] DANDY BAG CURB INLET FILTER
 - x - x - TREE PROTECTION FENCE
 - ← MAJOR FLOOD ROUTING
 - [Symbol] EX. TREE TO BE RELOCATED AS DIRECTED BY THE CITY OF DUBLIN AT THE TIME OF CONSTRUCTION



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			DESIGNED BY: MBS	MBS
			DRAWN BY: MBS	DRP

HOLDER WRIGHT PARK
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SEDIMENT AND EROSION CONTROL PLAN

PROJECT NO:	
14626	
SHEET	OF
10	15



0 40 80
SCALE: 1" = 40'

Tree Removal / Replacement Summary

Existing Trees to be Removed (15 in total)			
Species	DBH (inches)		
Juglans nigra	16		
Prunus serotina	12		
Celtis occidentalis	11		
Prunus spp.	14		
Prunus serotina	15		
Prunus serotina	6		
Morus spp.	16		
Celtis occidentalis	11		
Morus spp.	12		
Celtis occidentalis	11		
Juglans nigra	6		
Celtis occidentalis	9		
Morus spp.	11		
Ulmus spp.	13		
Morus spp.	12		
Unknown 12"	12		
Unknown Twin 12"	24		
Column Total	211		
Trees Provided (89 in total)			
Species	Total Number	Caliper Per Tree (inches)	Total Caliper (inches)
See Plant List	89	2.5	222.5

- BASIN PLUG PLANTING NOTE:**
- INSTALL 2" PLUGS IN THE STORMWATER BASIN ACCORDING TO THE LIST BELOW.
 - PLUGS TO BE INSTALLED ON 3' CENTERS.
 - EVENLY DISTRIBUTE PLUGS THROUGHOUT PLANTING ZONE. PLACE IN INFORMAL DRIFTS OF 3-7 OF ANY ONE SPECIES TO AVOID A FORMAL APPEARANCE.
 - PLANT PLUGS LEVEL WITH FINISH GRADE AND FIRM INTO PLACE.
 - PLUGS SHALL EXHIBIT VIGOROUS GROWTH AND BE THOROUGHLY ROOTED BY THE END OF THE FIRST GROWING SEASON. A MINIMUM OF 95% OF PLUGS SHALL BE ALIVE AND GROWING AT THE END OF THE FIRST SEASON.

GRASSES/SEDGES/RUSHES:

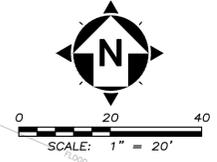
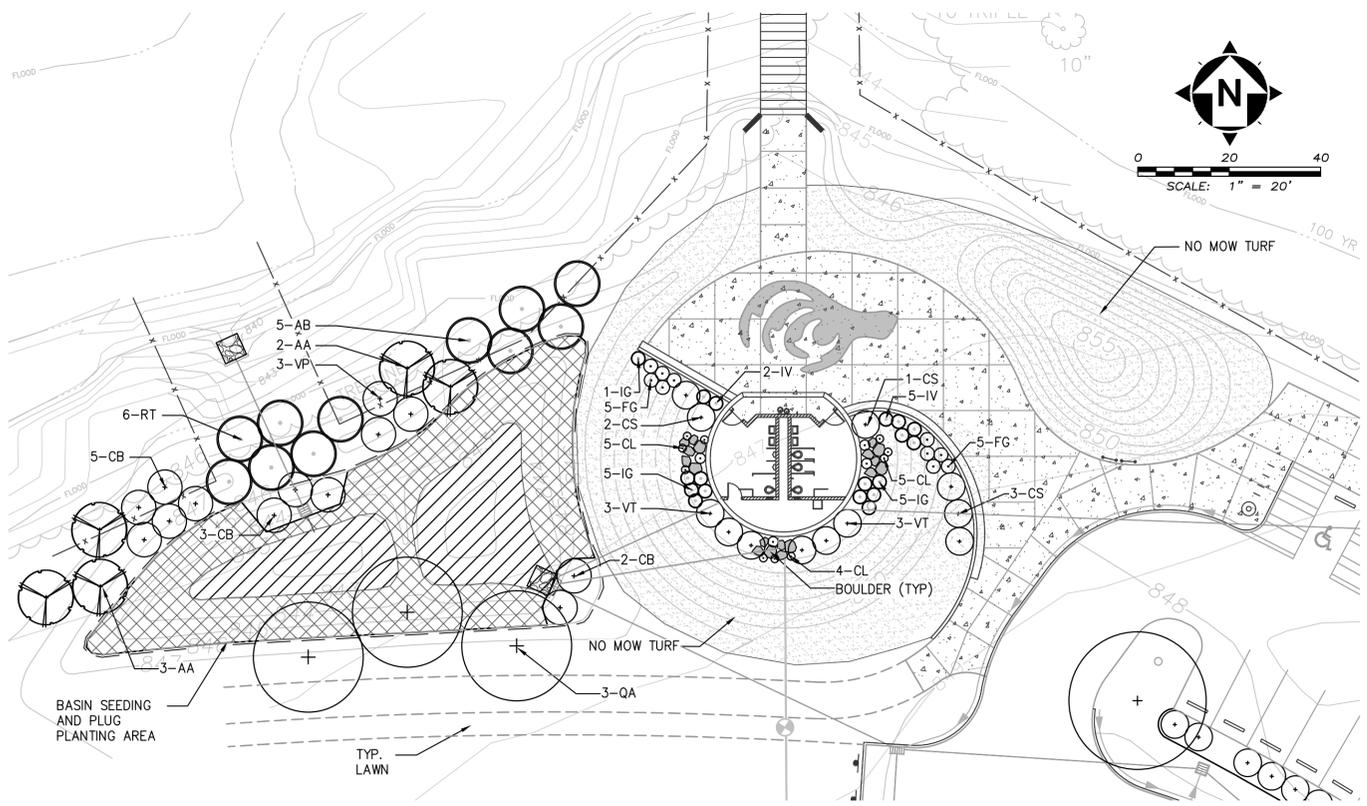
BRISTLY SEDGE	48 PLUGS = 1 FLAT
FOX SEDGE	48 PLUGS = 1 FLAT
GRAY'S SEDGE	48 PLUGS = 1 FLAT
VIRGINIA WILD RYE	48 PLUGS = 1 FLAT
SOFT-STEMMED BULRUSH	48 PLUGS = 1 FLAT

WILDFLOWERS:

PURPLE CONEFLOWER	48 PLUGS = 1 FLAT
MARSH BLAZINGSTAR	48 PLUGS = 1 FLAT
GREAT BLUE LOBELIA	48 PLUGS = 1 FLAT
WILD BERGAMONT	48 PLUGS = 1 FLAT
NORTHERN BLUE FLAG IRIS	48 PLUGS = 1 FLAT
CARDINAL FLOWER	48 PLUGS = 1 FLAT
BLACK EYED SUSAN	48 PLUGS = 1 FLAT
TOTAL	= 12 FLATS

MISCELLANEOUS:

BASIN SEEDING	450 SY
LANDSCAPE BOULDERS	LUMP
NO-MOW SEEDING	800 SY



0 20 40
SCALE: 1" = 20'

PLANT LIST

CODE	BOTANICAL/Common Name	SIZE	SPACING	QUANTITY
DECIDUOUS TREES				
QA	Quercus acutissima SAWTOOTH OAK	2.5" CAL. B&B	AS SHOWN ON PLAN	13
QB	Quercus bicolor SWAMP WHITE OAK	2.5" CAL. B&B	AS SHOWN ON PLAN	8
AA	Amelanchier arborea DOWNY SERVICEBERRY	2.5" CAL. B&B	AS SHOWN ON PLAN	21
CC	Crataegus crus-galli f. inermis CRUSADER HAWTHORN	2.5" CAL. B&B	AS SHOWN ON PLAN	6
CFP	Cercis canadensis 'Forest Pansy' FOREST PANSY REDBUD	2.5" CAL. B&B	AS SHOWN ON PLAN	4
EVERGREEN TREES				
AC	Abies concolor WHITE FIR	2.5" CAL. B&B	AS SHOWN ON PLAN	10
JV	Juniperus virginiana 'Emerald Sentinel' EMERALD SENTINEL RED CEDAR	2.5" CAL. B&B	AS SHOWN ON PLAN	8
PC	Picea abies NORWAY SPRUCE	2.5" CAL. B&B	AS SHOWN ON PLAN	1
PS	Pinus strobus WHITE PINE	2.5" CAL. B&B	AS SHOWN ON PLAN	18
SHRUBS				
FG	Fothergilla gardenii DWARF FOTHERGILLA	18" HT. NO. 5 CONT.	AS SHOWN ON PLAN	10
IG	Ilex glabra 'Nordic' NORDIC COMPACT INKBERRY	15" HT. PLAN	AS SHOWN ON PLAN	43
VT	Viburnum trilobum 'Compactum' COMPACT AM. CRANBERRYBUSH	18" HT. B&B	AS SHOWN ON PLAN	6
IV	Itea virginica 'Little Henry' LITTLE HENRY DWARF SWEETSPIRE	15" HT. NO. 3 CONT.	AS SHOWN ON PLAN	16
CS	Cornus sericea 'Isanti' ISANTI DOGWOOD	18" HT. B&B	AS SHOWN ON PLAN	31
VP	Viburnum prunifolium BLACKHAW VIBURNUM	18" HT. B&B	AS SHOWN ON PLAN	3
AB	Aronia arb. 'Brilliantissima' BRILLIANT RED CHOKEBERRY	18" HT. B&B	AS SHOWN ON PLAN	5
CB	Cornus sericea 'Bailey' BAILEY'S RED TWIG DOGWOOD	18" HT. B&B	AS SHOWN ON PLAN	7
RT	Rhus typhina STAGHORN SUMAC	18" HT. B&B	AS SHOWN ON PLAN	6
PERENNIALS				
CL	Coreopsis lanceolata LANCELEAF COREOPSIS	PLUG 18" O.C.		64
BG	Bouteloua gracilis 'Blond Ambition' BLUE GRAMA GRASS	PLUG 18" O.C.		30
EP	Echinacea purpurea PURPLE CONEFLOWER	PLUG 18" O.C.		20
RH	Rhuhbeckia hirta BLACKEYED SUSAN	PLUG 18" O.C.		50
TO	Tradescantia ohioensis OHIO SPIDERWORT	PLUG 18" O.C.		60

PLANTINGS IN EXISTING WOODS:
CONTRACTOR TO STAKE TREE AND SHRUB LOCATIONS IN THE FIELD FOR THE OWNER'S APPROVAL PRIOR TO INSTALLATION.

PROTECTED TREES:
IF A PROTECTED TREE IS DAMAGED OR REMOVED, IT SHALL BE REPLACED ON AN "INCH PER INCH" BASIS BY THE CONTRACTOR AT HIS OWN EXPENSE.

JENMAR COURT

NOTE:
STAGGER 3 EVERGREEN TREES TO MATCH EXISTING EVERGREEN TREES.

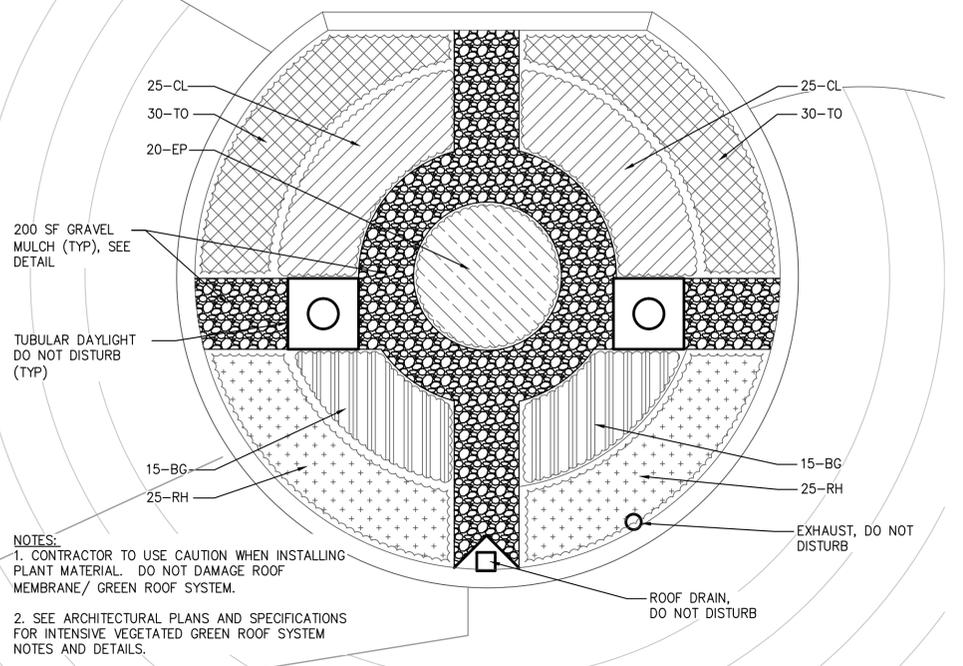
PLAZA ENLARGEMENT
SCALE= 1"=20'

SEEDING LEGEND:

- [Hatched pattern] = BASIN BOTTOM MIX
- [Cross-hatched pattern] = BASIN SLOPE MIX
- [Stippled pattern] = NO MOW FESCUE TURF MIX

BASIN SEEDING NOTE:

- ALL OTHER DISTURBED AREAS TO BE SEED WITH TYPICAL LAWN SEED MIX. SEE PLANTING NOTES.
- BASIN SEED MIXES TO BE FROM OHIO PRAIRIE NURSERY OR APPROVED EQUAL. CONTRACTOR TO SUBMIT SUPPLIER'S SEED SPECIFICATION FOR APPROVAL PRIOR TO INSTALLATION.
- NO MOW FESCUE TURF TO BE OHIO PRAIRIE NURSERY LOW MAINTENANCE "FREEDOM LAWN 1" SEED MIX OR APPROVED EQUAL.
- REGREEN NURSE COVER CROP IS TO BE INSTALLED IN THE BASIN AND NO MOW AREAS AT A RATE OF 1LB PER 1000SF.



- NOTES:**
- CONTRACTOR TO USE CAUTION WHEN INSTALLING PLANT MATERIAL. DO NOT DAMAGE ROOF MEMBRANE/ GREEN ROOF SYSTEM.
 - SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR INTENSIVE VEGETATED GREEN ROOF SYSTEM NOTES AND DETAILS.

VEGETATED ROOF GARDEN ENLARGEMENT
SCALE= 1"=5'



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PLANTING PLAN

PROJECT NO:
14626

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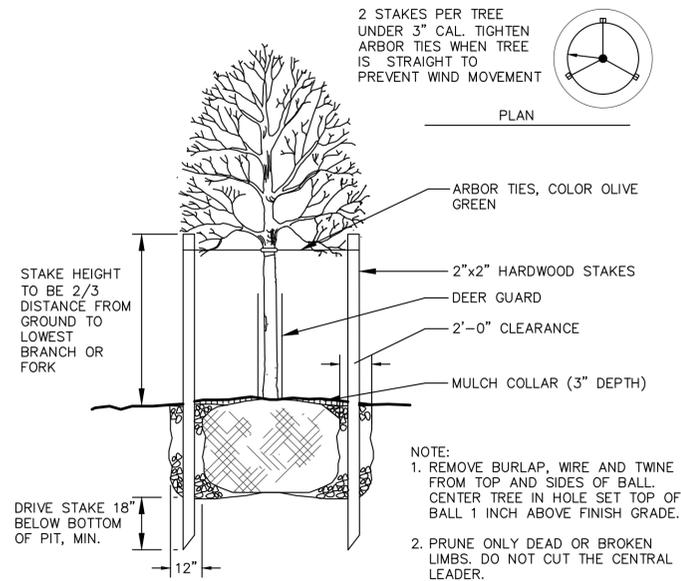
H:\2014\14626\DWG\PLANT\14626 - LANDSCAPING PLAN.DWG - 11/22/2016 2:00:31 PM - ABBAS

PLANTING NOTES

- CONTRACTOR TO VERIFY WITH THE OWNER AND TENANT'S CONSTRUCTION REPRESENTATIVE AND UTILITY COMPANIES THE LOCATIONS OF THE EXISTING UTILITIES PRIOR TO START. CALL OHIO UTILITIES PROTECTION SERVICES AT 1-800-362-2764. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS WHICH OCCUR DURING THE CONSTRUCTION OF THE PROJECT.
- PLANT MATERIAL SHALL BE FURNISHED IN THE QUANTITIES AND/OR SPACING AS SHOWN OR NOTED. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL SITE ELEMENTS AND IMMEDIATELY INFORM THE OWNER AND TENANT'S CONSTRUCTION REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ACTUAL CONDITIONS. NO WORK SHALL BE DONE IN ANY AREA WHERE THERE IS A DISCREPANCY WITHOUT OWNER AND TENANT'S CONSTRUCTION REPRESENTATIVE APPROVAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING REQUIRED TO PROVIDE PROPER SEED AND PLANTING BEDS. PROVIDE A MINIMUM OF 6" OF TOPSOIL TO ALL DISTURBED LANDSCAPE AREAS.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING SOIL AMENDMENTS:
 SOIL AMENDMENT: 'COM-TIL' ORGANIC COMPOST
 7000 S.R. 104 SOUTH
 LOCKBOURNE, OHIO 43137
 (614) 645-3153.
 TURF & SHRUB BEDS: SPREAD 3" OF 'COM-TIL' OVER NEW LANDSCAPE AREAS AND INCORPORATE INTO THE TOP 8" OF THE SOIL BY MECHANICAL TILLER.
 TREES & SHRUBS: MIX 30% COM-TIL TO 70% EXISTING SOIL FROM PLANT PIT EXCAVATION. IF EXCAVATED SOIL IS NOT SUITABLE, SUPPLEMENT WITH IMPORTED TOPSOIL.
- ALL PLANT MATERIAL TO MEET OR EXCEED AMERICAN STANDARD FOR NURSERY STOCK, CURRENT EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SUBJECT TO INSPECTION PRIOR, DURING AND AFTER INSTALLATION. ANY PLANT NOT MEETING THE REQUIREMENTS WILL BE CAUSE FOR REJECTION BY THE OWNER'S REPRESENTATIVE. ALL REJECTED PLANTS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AND THE REPLACEMENT MATERIAL SHALL BE PROVIDED.
- ALL SUBSTITUTIONS AND PLAN CHANGES MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO ANY ACTION TAKEN. TREES SHALL BE PROTECTED AND HANDLED CAREFULLY AT ALL TIMES DURING TRANSPORT & HANDLING TO PREVENT DRYING OF TREE OR ROOT BALL BY WINDS, AND TO PREVENT ANY DAMAGE OR BREAKAGE OF THE ROOT BALL. BARK SHALL BE PROTECTED FROM BRUISING OR ABRASION.
- WATER TREES IMMEDIATELY AFTER PLANTING AND CONTINUE TO WATER UNTIL FINAL ACCEPTANCE BY OWNER.
- PLANT LOCATIONS AND BEDS SHALL BE LOCATED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLANT INSTALLATION.
- BED LINE TO BE 18" FROM BASE OF PLANT MATERIAL UNLESS OTHERWISE INDICATED
- ALL SHRUB AND BED AREAS TO BE MULCHED WITH THREE INCHES (3") DEPTH MIN. SHREDDED HARDWOOD MULCH. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
- ALL TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING BY STAKING OR GUYING. SEE DETAILS.
- ALL AREAS OUTSIDE OF PLANTING BEDS SHALL BE SEEDED OR SODDED AS SHOWN ON THE PLANS. THE TURF MIXES SHALL BE OF THE FOLLOWING COMPOSITIONS:

- SOD: BLEND OF NOT LESS THAN THREE IMPROVED VARIETIES OF KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS. SUBMIT MIX CERTIFICATION FROM SUPPLIER AS LOCALLY GROWN FOR ACCEPTANCE.
- SEED MIX: SUBMIT CERTIFICATION FROM SEED SUPPLIER FOR ACCEPTANCE PRIOR TO PLACING ORDER. ALSO PROVIDE SPECIFICATIONS FOR TACKIFIER AND FIBER MULCH AS PROVIDED BY SUPPLIER.
- RATE: 6 LBS./ 1,000 SQ. FT., APPLY BY DRILL SEEDING METHOD IN TWO DIRECTIONS.
- STARTER FERTILIZER: 16-25-12; APPLY AT RATE EQUAL TO 1 LB. OF ACTUAL NITROGEN PER 1,000 S.F.
- TACKIFIER: 60 GAL./ ACRE
- FIBER HYDROMULCH: 1,500 LBS./ ACRE, DYED GREEN.

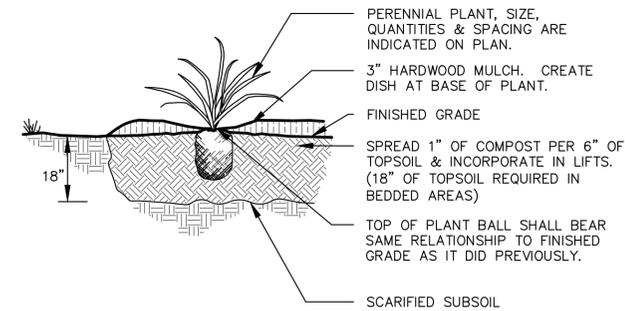
- FINISHED TURF (SOD OR SEED) TO BE FLUSH WITH TOP OF ADJACENT CURB OR WALK. COORDINATE WITH OWNER'S REPRESENTATIVE IN FIELD AS REQUIRED.
- THE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS AND GROUND COVERS FOR A PERIOD OF ONE YEAR (1) FROM DATE OF FINAL ACCEPTANCE. REPLACE MATERIAL WITHIN SEVEN (7) DAYS OF NOTIFICATION BY THE OWNER OR HIS REPRESENTATIVE.
- PERFORM CLEANING DURING INSTALLATION OF LANDSCAPING WORK AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPING OPERATIONS. SWEEP AND HOSE DOWN PAVED SURFACES AFFECTED BY LANDSCAPING OPERATIONS. COORDINATE WITH OWNER'S REPRESENTATIVE AND OTHER CONTRACTORS FOR FINAL CLEANUP PRIOR TO CLEANING.
- MAINTENANCE: THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE COMPLETED LANDSCAPE AND IRRIGATION SYSTEMS UNTIL THE DATE OF FINAL ACCEPTANCE.
 - MOWING - (MIN. ONCE PER WEEK, EXCEPT IN FUTURE EXPANSION AREAS WHICH WILL REQUIRE ONCE PER THREE WEEKS.
 - TRIMMING - SHRUBS, TREES, GROUND COVERS, PERENNIALS, AND ANNUALS, MIN. 2 TIMES PER YEAR OR AS REQUIRED.
 - FERTILIZING - APPLY FERTILIZER AT A RATE EQUAL TO 1 LB. OF ACTUAL NITROGEN/ 1,000 S.F. IN THE SPRING AND FALL TO ALL TURF AND PLANTING EXCEPT IN FUTURE EXPANSION TURF AREAS WHICH WILL REQUIRE NO APPLICATION.
 - BED EDGING - EDGE ALL BEDS BY HAND, SPADE AT LEAST 2 TIMES PER YEAR AND TOP MULCHING-DRESS WOOD MULCH IN FALL AND SPRING.



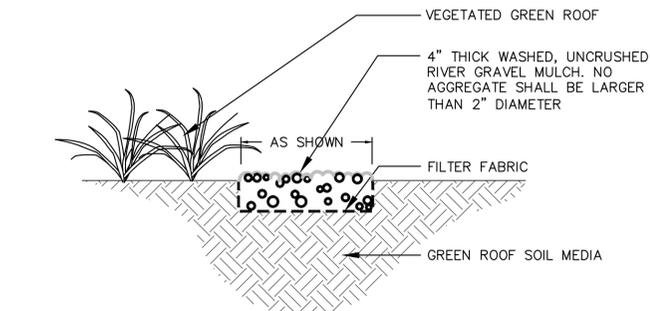
USE THE FOLLOWING LINK FOR ADDITIONAL GUIDELINES FOR PLANTING NEW TREES
http://www.treesaregood.org/treecare/resources/New_TreePlanting.pdf

1 DECIDUOUS TREE
 NOT TO SCALE

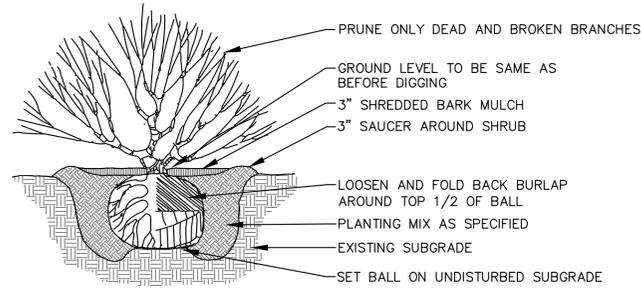
NOTES:
 COMPOST SHALL CONSIST OF STERILIZED, COMPOSTED MATERIAL. CONTRACTOR SHALL SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF PLANTS.



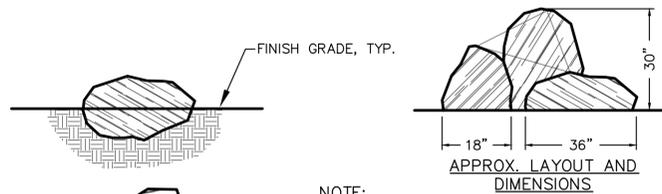
3 PERENNIAL/GROUNDCOVER
 NOT TO SCALE



5 GRAVEL MULCH
 NOT TO SCALE



2 TYPICAL SHRUB PLANTING
 NOT TO SCALE



- NOTE:
- DO NOT PLACE STONES OF THE SAME HEIGHT, SHAPE, OR MASS NEXT TO EACH OTHER.
 - ARRANGE STONES IN TRIANGULAR GROUPINGS WITH ONE TALL CENTRAL STONE, AND ONE MEDIUM AND ONE SMALL STONE FLANKING IT FOR BALANCE.
 - ARRANGE STONES IN GROUPS OF THREE.
 - BOULDERS TO BE IRREGULAR, ANGULAR SANDSTONE, 18" DIA MINIMUM, COLORS: TANS AND BROWNS.

4 TYPICAL STONE SETTING
 NOT TO SCALE



NO.	REVISION	DATE

DRAWING SCALE:	N/A
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
DATE:	11/11/16
DESIGNED BY:	MBS
DRAWN BY:	MBS
CHECKED BY:	CS

HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
 4729 BRIGHT RD, DUBLIN OH 43017

PLANTING NOTES & DETAILS

PROJECT NO:
14626

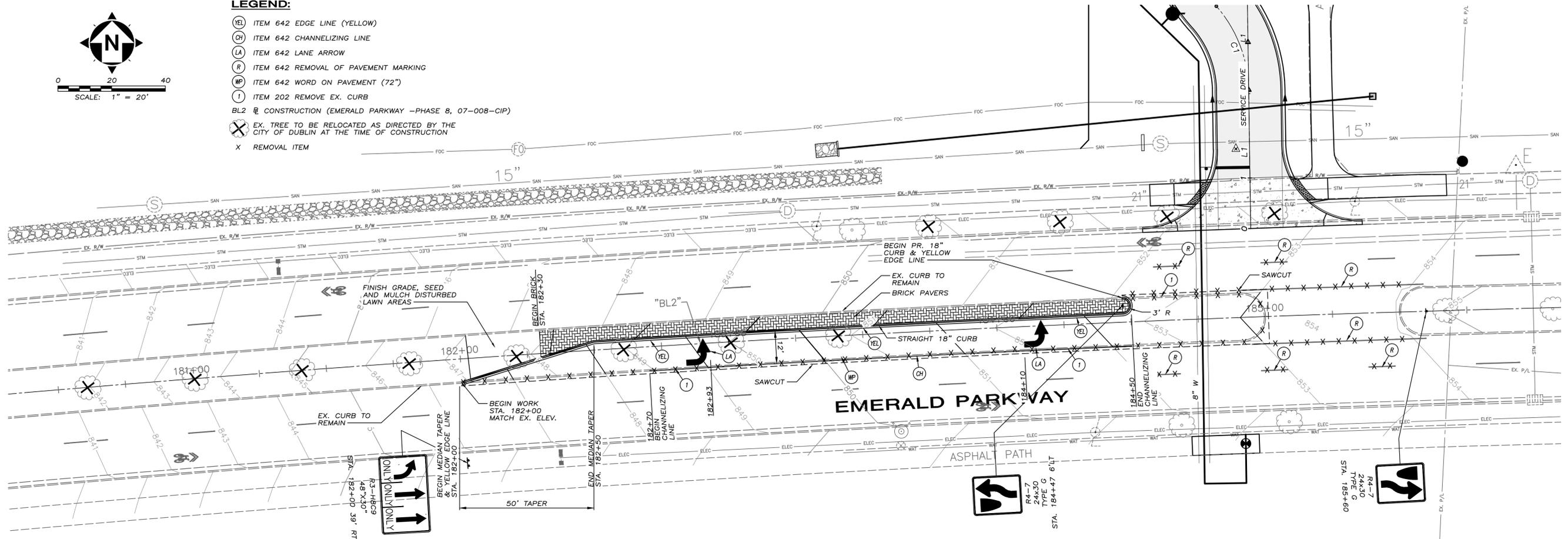
SHEET **13** OF **15**



0 20 40
SCALE: 1" = 20'

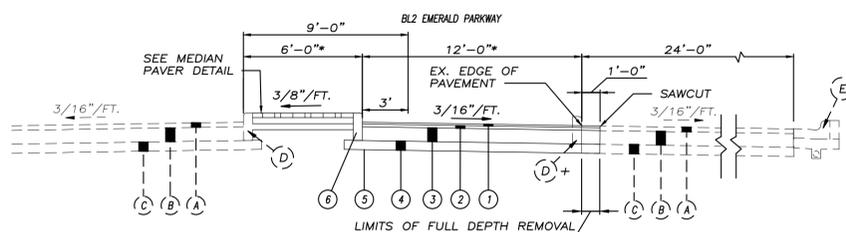
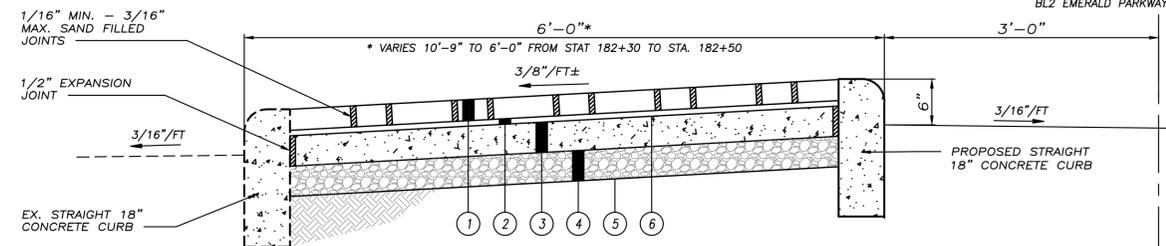
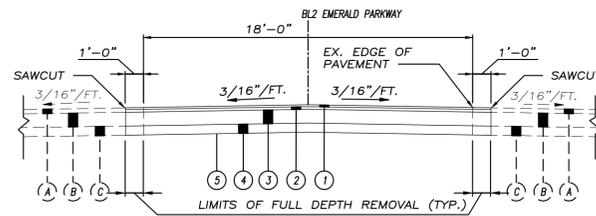
LEGEND:

- (YEL) ITEM 642 EDGE LINE (YELLOW)
- (CH) ITEM 642 CHANNELIZING LINE
- (LA) ITEM 642 LANE ARROW
- (R) ITEM 642 REMOVAL OF PAVEMENT MARKING
- (W) ITEM 642 WORD ON PAVEMENT (72")
- (1) ITEM 202 REMOVE EX. CURB
- BL2 CONSTRUCTION (EMERALD PARKWAY -PHASE 8, 07-008-CIP)
- (X) EX. TREE TO BE RELOCATED AS DIRECTED BY THE CITY OF DUBLIN AT THE TIME OF CONSTRUCTION
- X REMOVAL ITEM



NOTES:

- EXISTING ROADWAY LAYOUT, STATIONING AND GRADING IS BASED ON EMERALD PARKWAY-PHASE 8 (07-008-CIP) DESIGN PLANS. CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE OWNER PRIOR TO CONSTRUCTION.
- EX. STREET TREES TO BE RELOCATED AT THE DIRECTION OF THE CITY.
- FOR MAINTENANCE OF TRAFFIC NOTES, SEE SHEET 2



LEGEND

- (A) EX. ASPHALT (T=3")
- (B) EX. BITUMINOUS AGGREGATE BASE (T=9")
- (C) EX. AGGREGATE BASE (T=6")
- (D) EX. 18" STRAIGHT CURB
- (E) EX. COMBINATION CURB AND GUTTER
- (1) ITEM 448 1.25" ASPHALT CONCRETE SURFACE COURSE (HEAVY TRAFFIC), PG64-22
- (2) ITEM 448 1.75" ASPHALT CONCRETE SURFACE COURSE (HEAVY TRAFFIC), PG64-22
- (3) ITEM 301 9" ASPHALT CONCRETE BASE
- (4) ITEM 304 6" AGGREGATE BASE
- (5) ITEM 204 SUBGRADE COMPACTION
- (6) ITEM 609 STRAIGHT 18" CONCRETE CURB

TURN LANE ESTIMATE OF QUANTITIES			
ITEM	QTY	UNIT	DESCRIPTION
SITE PREPARATION			
202	364	LF	CURB REMOVED
202	140	SY	PAVEMENT REMOVED
642	1	LS	REMOVAL OF PAVEMENT MARKING
661	15	EA	TREE RELOCATION
ROADWAY			
203	298	CY	EXCAVATION
204	475	SY	SUBGRADE COMPACTION
204	1	HOUR	PROOF ROLLING
255	375	LF	FULL DEPTH PAVEMENT SAWING
301	112	CY	ASPHALT CONCRETE BASE
304	80	CY	AGGREGATE BASE
407	447	SY	TACK COAT
448	22	CY	ASPHALT CONCRETE, INTERMEDIATE COURSE, (HEAVY TRAFFIC), PG64-22
448	16	CY	ASPHALT CONCRETE, SURFACE COURSE, (HEAVY TRAFFIC), PG64-22
609	258	LF	STRAIGHT 18" CONCRETE CURB
614	1	LS	MAINTAINING TRAFFIC
630	52	LF	GROUND MOUNTED SUPPORT, SQUARE POST & ANCHOR TRAIN CAP-SEE STANDARD DRAWING RD-10
630	30	SF	SIGN, FLAT SHEET - SEE RD-10
644	0.05	MILE	EDGE LINE (YELLOW)
644	180	LF	CHANNELIZING LINE
644	2	EA	LANE ARROW
SPEC	127	SY	BRICK PAVERS

GENERAL NOTES- BRICK PAVERS, AS PER PLAN:

PAVERS: THE PAVERS SHALL BE REGIMENTAL FULL RANGE, WITH A CHAMFERED EDGE, AND SPACER LUGS, 8"x4"x2-3/4", MADE BY BLENDON BRICK COMPANY, CANTON OHIO, LAID IN A HARRINGBONE PATTERN.

NEOPRENE-MODIFIED ASPHALT ADHESIVE: FURNISH NEOPRENE MODIFIED ASPHALT ADHESIVE THAT CONTAINS 2% GRADE WM1 NEOPRENE, OXIDIZED ASPHALT WITH 150 DEGREE SOFTENING POINT (77 PENETRATION), AND 10% LONG-FIBERED INERT MATERIAL, AS SUPPLIED BY SEIDEL COMPANY, INC., NEWBURYPORT, MA (617) 649-6740; HASTINGS PAVEMENT COMPANY, INC., LAKE SUCCESS, NY, (516) 379-3500, OR APPROVED EQUAL.

BITUMINOUS SETTING BED, 3/4 INCH: FURNISH ASPHALT CEMENT CONFORMING TO ASTM D 3381, PG64-22. FINE AGGREGATE SHALL BE NATURAL SAND AND/OR STONE SAND COMPOSED OF HARD, DURABLE, UNCOATED PARTICLES, FREE FROM CLAY, SILT, ORGANIC MATERIAL, OR OTHER DELETERIOUS SUBSTANCES. ALL SAND SHALL BE UNIFORMLY GRADED AND PASS A NO. 4 SIEVE, MEETING THE REQUIREMENTS OF ASTM C 136. THE DRIED FINE AGGREGATE SHALL BE MIXED WITH HOT ASPHALT CEMENT AT THE PLANT AND HEATED TO APPROXIMATELY 300 DEGREES (F). APPROXIMATE MATERIAL PROPORTIONS SHALL BE 7% ASPHALT CEMENT AND 93% FINE AGGREGATE; OR 140 LBS ASPHALT TO 1,860 LBS FINE AGGREGATE PER TON.

SAND: ALL JOINTS SHALL BE FILLED WITH A POLYMERIC SAND. SAND SHALL BE ALLIANCE XXX GATOR SAND AND SLATE GRAY IN COLOR OR APPROVED EQUAL.

EDGING: A BRICK/PAVER EDGING SHALL BE PROVIDED ALONG ANY PAVER EDGE NOT RESTRAINED BY CURB. EDGING TO BE PERMALOC ASPHALT EDGE, BLACK, 3"x3", OR APPROVED EQUAL.

PAYMENT FOR MEDIAN PAVERS WILL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - BRICK PAVERS, A.P.P. AND SHALL INCLUDE THE SUBGRADE COMPACTION, COMPACTED AGGREGATE BASE, CONCRETE BASE SLAB, BITUMINOUS ASPHALT SETTING BED, NEOPRENE-MODIFIED ASPHALT ADHESIVE, EXPANSION JOINT MATERIAL, BRICK PAVERS AND POLYMERIC SAND FILL.



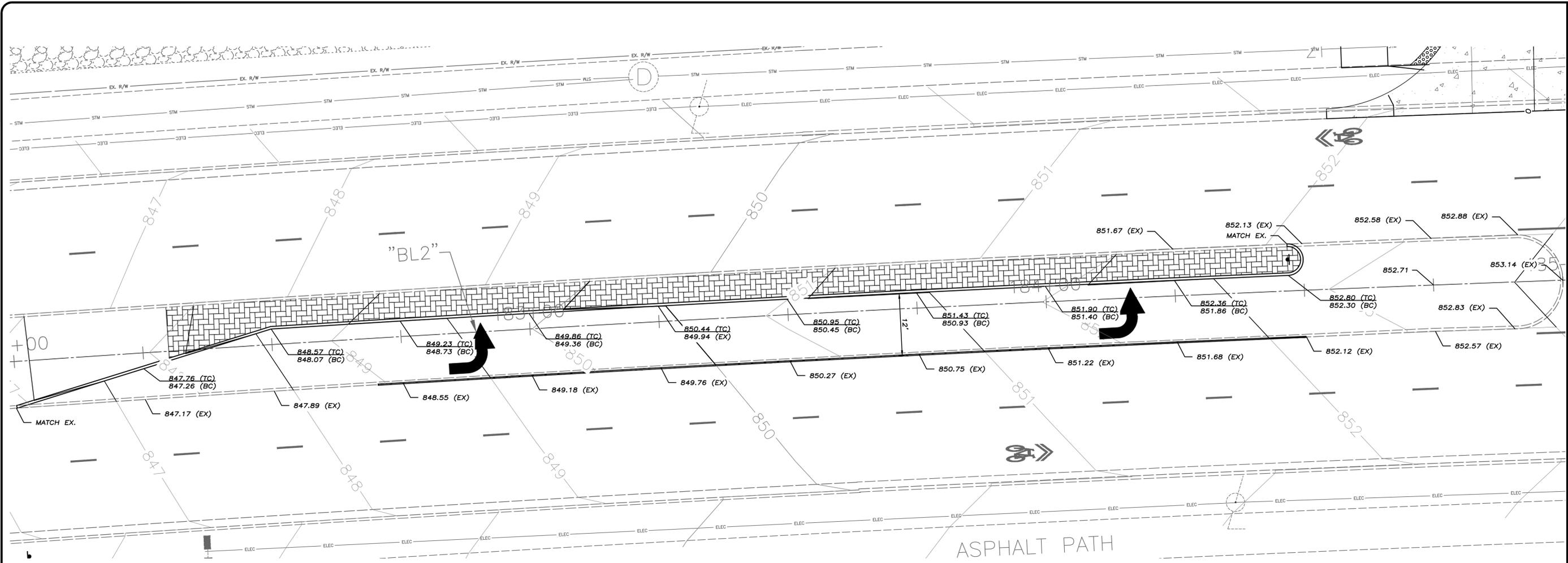
NO.	REVISION	DATE

HOLDER WRIGHT PARK
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4729 BRIGHT RD, DUBLIN OH 43017

EMERALD PARKWAY
TURN LANE PLANS

PROJECT NO:
14626

SHEET 14 **OF** 15



0 10 20
SCALE: 1" = 10'

LEGEND:

- TC = TOP OF CURB
- BC = BOTTOM OF CURB
- EX = EXISTING ELEVATION

NOTES:

1. EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO MAINTAIN 3/16"/FT SLOPE ON NEW PAVEMENT.

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NO.	REVISION	DATE

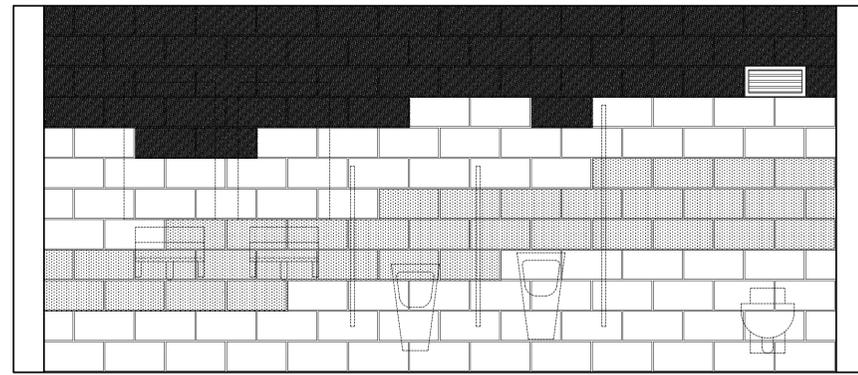
DRAWING SCALE:
 • HORIZ: AS SHOWN
 • VERT: N/A
DATE: 11/11/16
DESIGNED BY: ET
DRAWN BY: MBS
CHECKED BY: DRP

HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
 4729 BRIGHT RD, DUBLIN OH 43017
EMERALD PARKWAY
TURN LANE INTERSECTION DETAILS

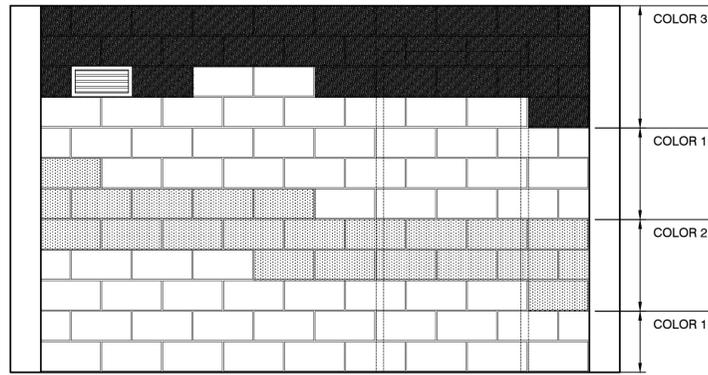
PROJECT NO:
14626

SHEET 15 **OF** 15

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ELEVATION A

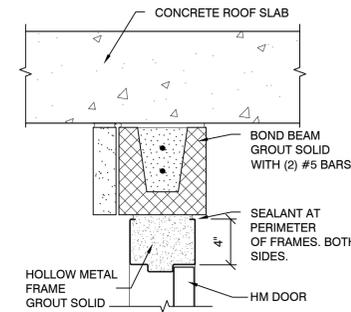


ELEVATION B

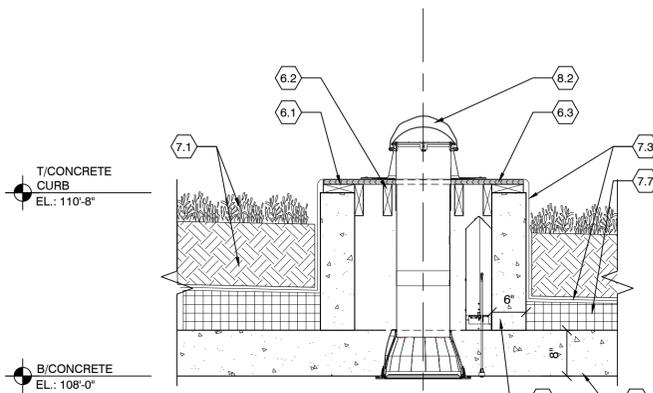
GROUND FACE MASONRY COLORS:
 BASIS OF DESIGN - YORK BUILDING PRODUCTS
 COLOR 1 = SAHARA
 COLOR 2 = PORT
 COLOR 3 = GINGERBREAD
 U.N.O., C.M.U. TO BE COLOR 1.

- KEYNOTES**
- 4" PERFORATED FOUNDATION DRAIN WRAPPED WITH FILTER FABRIC. COORDINATE CONNECTION TO STORM.
 - CONCRETE SIDEWALK. SEE CIVIL DRAWINGS.
 - CONCRETE SLAB ON GRADE, OVER COMPACTED GRANULAR BASE. SEE STRUCTURAL DRAWINGS.
 - CONCRETE WALL WITH WOOD PATTERN FINISH ON ALL EXPOSED VERTICAL SURFACES.
 - CONCRETE FOUNDATION. SEE STRUCTURAL DRAWINGS.
 - CONCRETE ROOF SLAB. SEE STRUCTURAL DRAWINGS.
 - CONCRETE ROOF CURB.
 - 10 MIL POLYETHYLENE BOND BREAKER (OR APPROVED EQUAL).
 - CONCRETE PARAPET WALL WITH WOOD PATTERN FINISH ON EXPOSED "EXTERIOR" VERTICAL SURFACES. SLOPE TOP EDGE AS SHOWN ON SECTIONS.
 - 8" (NOM.) GROUND FACE CONCRETE MASONRY UNIT - COLOR 1 (U.N.O.). SEE INTERIOR ELEVATIONS FOR COLOR LAYOUT ON WALLS. SEE STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT. PROVIDE FOAM-IN-PLACE INSULATION IN EXTERIOR WALLS.
 - ±2" STONE VENEER OVER CONCRETE WALL.
 - CAST STONE SEAT WALL WITH 1" CHAMFERED CORNER EACH END.
 - CAST STONE WALL CAP, ADHESIVE ANCHOR TO TOP OF CONCRETE WALL.
 - 2X PRESSURE TREATED BLOCKING.
 - 2X6 PRESSURE TREATED FRAMING.
 - 3/4" EXTERIOR GRADE WOOD SHEATHING.
 - INTENSIVE VEGETATED GREEN ROOF SYSTEM. (U.N.O.). SEE INTERIOR ELEVATIONS FOR COLOR LAYOUT ON WALLS. SEE STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT. PROVIDE FOAM-IN-PLACE INSULATION IN EXTERIOR WALLS.
 - 1/2" EXPANSION JOINT FILLER MATERIAL AND JOINT SEALANT.
 - TPO ADHERED ROOF MEMBRANE.
 - REGLET.
 - SEALANT AND SHEET METAL COUNTER FLASHING.
 - FLUID-APPLIED WATERPROOFING.
 - RIGID INSULATION - 3" BASE LAYER OVER ROOF DECK WITH TAPERED INSULATION OVER TOP OF BASE LAYER AT 1/4" PER FOOT TO DRAIN.
 - HOLLOW METAL DOOR AND FRAME, PAINT.
 - TUBULAR DAYLIGHTING SYSTEM.
 - EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
 - EXTERIOR GRADE. SEE CIVIL DRAWINGS.

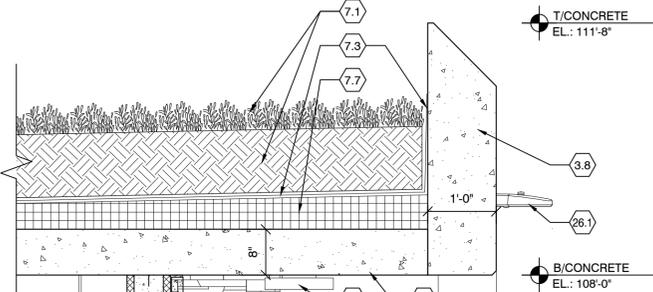
6 A2 INTERIOR ELEVATIONS
 SCALE: 1/2" = 1'-0"
 MASONRY PATTERN LAYOUT



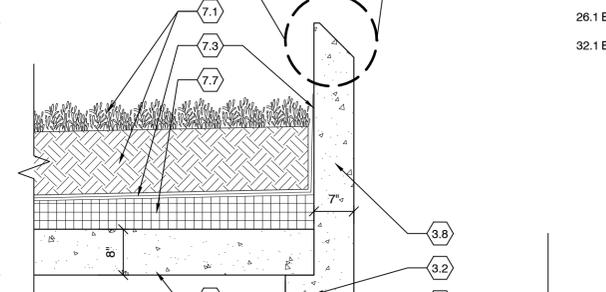
6 A2 DOOR HEAD DETAIL
 SCALE: 1-1/2" = 1'-0"



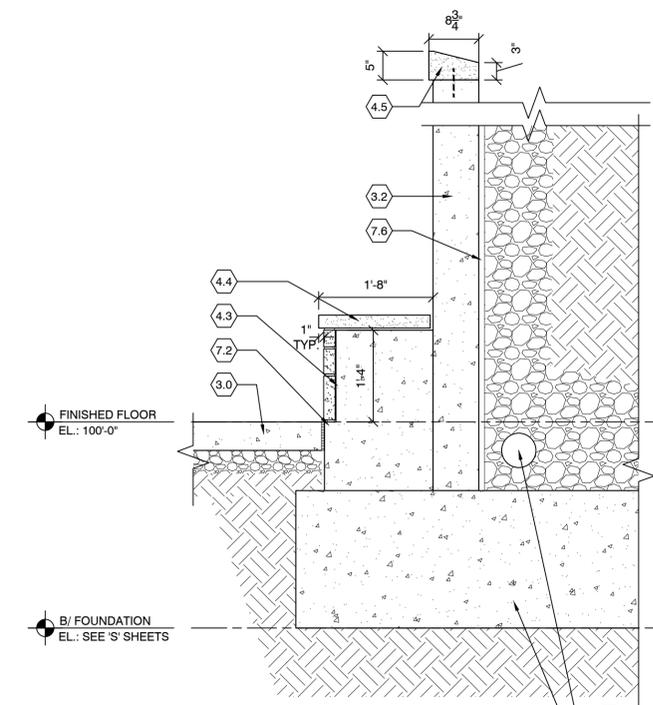
5 A2 SECTION
 SCALE: 3/4" = 1'-0"



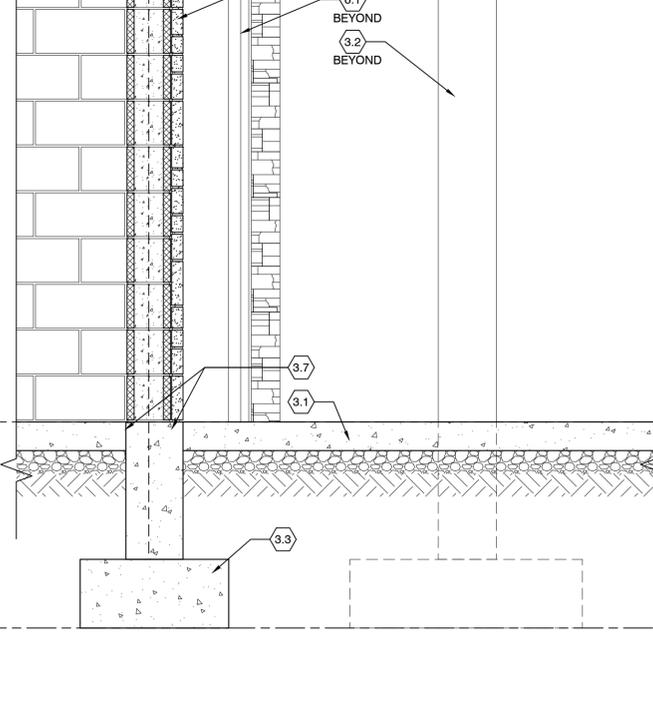
2 A2 SECTION
 SCALE: 3/4" = 1'-0"



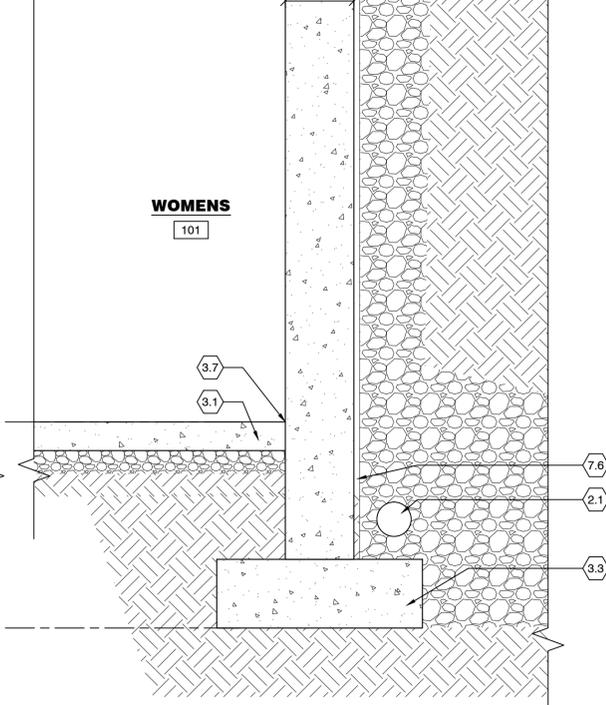
1 A2 SECTION
 SCALE: 3/4" = 1'-0"



3 A2 SECTION
 SCALE: 3/4" = 1'-0"



2 A2 SECTION
 SCALE: 3/4" = 1'-0"



1 A2 SECTION
 SCALE: 3/4" = 1'-0"



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NO.	REVISION	DATE

DRAWING SCALE: AS NOTED		DATE: 11/01/16	DESIGNED BY: CKN	DRAWN BY: ARUW	CHECKED BY: BSAB
HOLDER WRIGHT PARK					
VISITOR ORIENTATION CENTER					
4729 BRIGHT RD, DUBLIN OH 43017					
SECTIONS AND DETAILS					
PROJECT NO: 14626					
A2					
SHEET 2					OF 2

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STRUCTURAL GENERAL PARAMETERS

OCCUPANCY CATEGORY: II

1603.1.1 FLOOR LIVE LOAD - 100 psf

1603.1.2 ROOF LIVE LOAD - 100 psf

1603.1.3 ROOF SNOW LOAD -
 FLAT ROOF SNOW LOAD, Pf = 20psf
 SNOW EXPOSURE FACTOR, Ce = 1.0
 SNOW LOAD IMPORTANCE FACTOR, I = 1.0
 THERMAL FACTOR, Ct = 1.2

1603.1.4 WIND LOAD
 BASIC WIND SPEED (3 SEC. GUST) = 90 mph
 WIND IMPORTANCE FACTOR = 1.0
 WIND EXPOSURE = C
 INTERNAL PRESSURE COEFFICIENT = 0.18 ±

1603.1.5 EARTHQUAKE DESIGN DATA
 SEISMIC USE GROUP: II
 SPECTRAL RESPONSE COEFFICIENTS:
 SDS = 0.125
 SD1 = 0.067
 SITE CLASS: C
 SEISMIC DESIGN CATEGORY: B
 BASIC SEISMIC FORCE RESISTING SYSTEM:
 ORDINARY REINFORCED CONCRETE SHEAR WALLS (R=4)
 DESIGN BASE SHEAR: 8.7k
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

GOVERNING BUILDING CODE: 2011 OHIO BASIC BUILDING CODE

CONCRETE

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE.

CONCRETE STRENGTHS AT 28 DAYS:
 SPREAD FOOTINGS 4000 PSI
 WALLS & SIDEWALKS 4000 PSI
 INTERIOR SLAB 4000 PSI

AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL. BARS SHALL HAVE EMBEDMENT OF 18 DIAMETERS (12" MINIMUM) PAST INSIDE EDGE OF CORNER.

WHERE CONCRETE IS PLACED DIRECTLY ON GROUND, REINFORCING STEEL SHALL HAVE 3" OF CONCRETE COVER. AT ALL OTHER PLACES, CONCRETE COVER TO BE A MIN. OF 1 1/2" UNLESS NOTED OTHERWISE.

ALL BUILDING FLOOR SLABS SHALL BE STEEL TROWEL FINISHED.

ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED (INCLUDES INTERIOR SLAB).

REINFORCING STEEL : ASTM A615 OR A616, GRADE 60. MINIMUM LAP LENGTH - 48 DIAMETERS.

PROVIDE (2) #5 REBARS, 5'-0" LONG AT ALL CORNERS IN INTERIOR SLAB.

FOUNDATIONS

FOUNDATION DESIGN IS BASED ON RECOMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY GEOTECHNICAL CONSULTANTS, INC. DATED APRIL 30, 2015. FOUNDATIONS HAVE BEEN DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF BELOW FOOTINGS.

ALL SOIL BEARING SURFACES SHALL BE LEVEL (WITHIN 1/4" IN 12).

THE OWNER SHALL HAVE A GEOTECHNICAL ENGINEER VERIFY ALL BEARING STRATA BEFORE FOOTINGS ARE POURED.

MASONRY

MATERIALS:
 MORTAR: ASTM 270 TYPE S & TYPE N PER SPECIFICATIONS
 CONCRETE BLOCK: TYP. UNIT PER ASTM C90 GRADE N, TYPE NORMAL WEIGHT AGGR. PER ASTM C33
 CONCRETE BLOCK UNITS: COMPRESSIVE STRENGTH SHALL BE NO LESS THAN 1900 PSI PER ASTM C90

INSPECTION IS REQUIRED DURING PREPARATION AND TAKING OF ANY REQUIRED PRISM OR TEST SPECIMENS AND ON A PERIODIC BASIS DURING THE PLACING OF MASONRY UNITS. PLACEMENT OF REINFORCEMENT, INSPECTION OF GROUT SPACE IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS AND DURING GROUTING OPERATIONS

REINFORCING TO BE LOCATED IN EXACT CENTER OF BLOCKS. USE VERTICAL BAR POSITIONER FOR PLACEMENT.

ALL VERTICAL WALL REINFORCEMENT TO HAVE CONTACT SPLICES -
 WIRED TOGETHER WITH MIN. 40 BAR DIAMETERS LAP OR
 FULL STRENGTH WELDS OR
 MECHANICALLY COUPLED

PROVIDE DURA-O-WALL (OR APPROVED EQUAL) JOINT REINF. AT 16" O.C. MEASURED VERTICALLY IN ALL MASONRY WALLS UNLESS NOTED OTHERWISE ON DRWGS.

MASONRY REINFORCING PER PLANS. CELLS WITH REINFORCING TO BE FULLY GROUTED.

VERTICAL REINFORCEMENT:
 REINFORCEMENT SHALL BE PROVIDED AT CORNERS, WITHIN 16" OF EACH SIDE OF OPENINGS, WITHIN 8" OF EACH SIDE OF MOVEMENT JOINTS, AND WITHIN 8" OF THE ENDS OF WALLS. BAR SIZE SHALL MATCH PRIMARY MASONRY REINFORCEMENT AS NOTED IN PLANS/DETAILS.

HORIZONTAL REINFORCEMENT:
 HORIZONTAL JOINT REINFORCEMENT SHALL BE PROVIDED AT THE BOTTOM AND TOP OF WALL OPENINGS (EXTENDING NOT LESS THAN 24" NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENINGS), CONTINUOUSLY AT ROOF LEVEL, AND WITHIN 16" OF THE TOP OF WALLS

GENERAL

IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

VERIFY ALL FLOOR/ROOF OPENING SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS.

WHEN PROPRIETARY CONNECTION DEVICES ARE SPECIFIED, CONTRACTOR SHALL READ, UNDERSTAND AND FOLLOW MANUFACTURERS REQUIREMENTS FOR FASTENER TYPE, SIZE, GRADE, NUMBER OF FASTENERS, FINISH OF FASTENERS, CONNECTOR INSTALLATION REQUIREMENTS, ETC.

ANY INFORMATION OR DATA ON THESE DRAWINGS IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSIONS OF THE PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE ENGINEER FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER.

SPECIAL INSPECTIONS

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUALITIES. THESE QUALIFICATIONS ARE IN ADDITION TO QUALIFICATIONS SPECIFIED IN OTHER SECTION OF THE INTERNATIONAL BUILDING CODE.

SPECIAL INSPECTION REPORT REQUIREMENTS:

SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF THE WORK BY THE APPLICANT AND THE BUILDING OFFICIAL.

BELOW IS A LIST OF THE SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT :

MASONRY:
 - SEE "REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION - LEVEL 1"

SOILS:
 - SEE "REQUIRED VERIFICATION AND INSPECTIONS OF SOILS" TABLE

PER IBC SECTION 1705.4, THE MAIN-WINDFORCE-RESISTING SYSTEMS IN THIS BUILDING DO NOT REQUIRE THE ADDITIONAL SPECIAL INSPECTIONS LISTED IN IBC SECTION 1705.4.2.

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

REQUIRED SERVICES AND DUTIES FOR EACH PARTY (TESTING AGENCY, INSPECTION AGENCY AND CONTRACTOR) SHALL BE PER THE MOST RECENT EDITION OF ACI530.1/ASCE 6/TMS 602.

PER IBC, SECTION 1706:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN-WIND-FORCE OR SEISMIC-FORCE RESISTING SYSTEM LISTED IN THE STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

- 1) ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS
- 2) ACKNOWLEDGMENT THAT THE CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL
- 3) PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS
- 4) IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING PLACEMENT.	—	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 4, 5.2-5.4	1904.3, 1913.2, 1913.3
3. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172	1913.1
			ASTM C 31	
			ACI 318: 5.6, 5.8	
4. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
5. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 5.11-5.13	1913.9
6. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM STRUCTURAL SLABS.	—	X	ACI 318: 6.2	—
7. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 6.1.1	—

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DRAWING SCALE:
 * AS NOTED

DATE: 02/05/16

DESIGNED BY: AJB

DRAWN BY: AJB

CHECKED BY: RFD

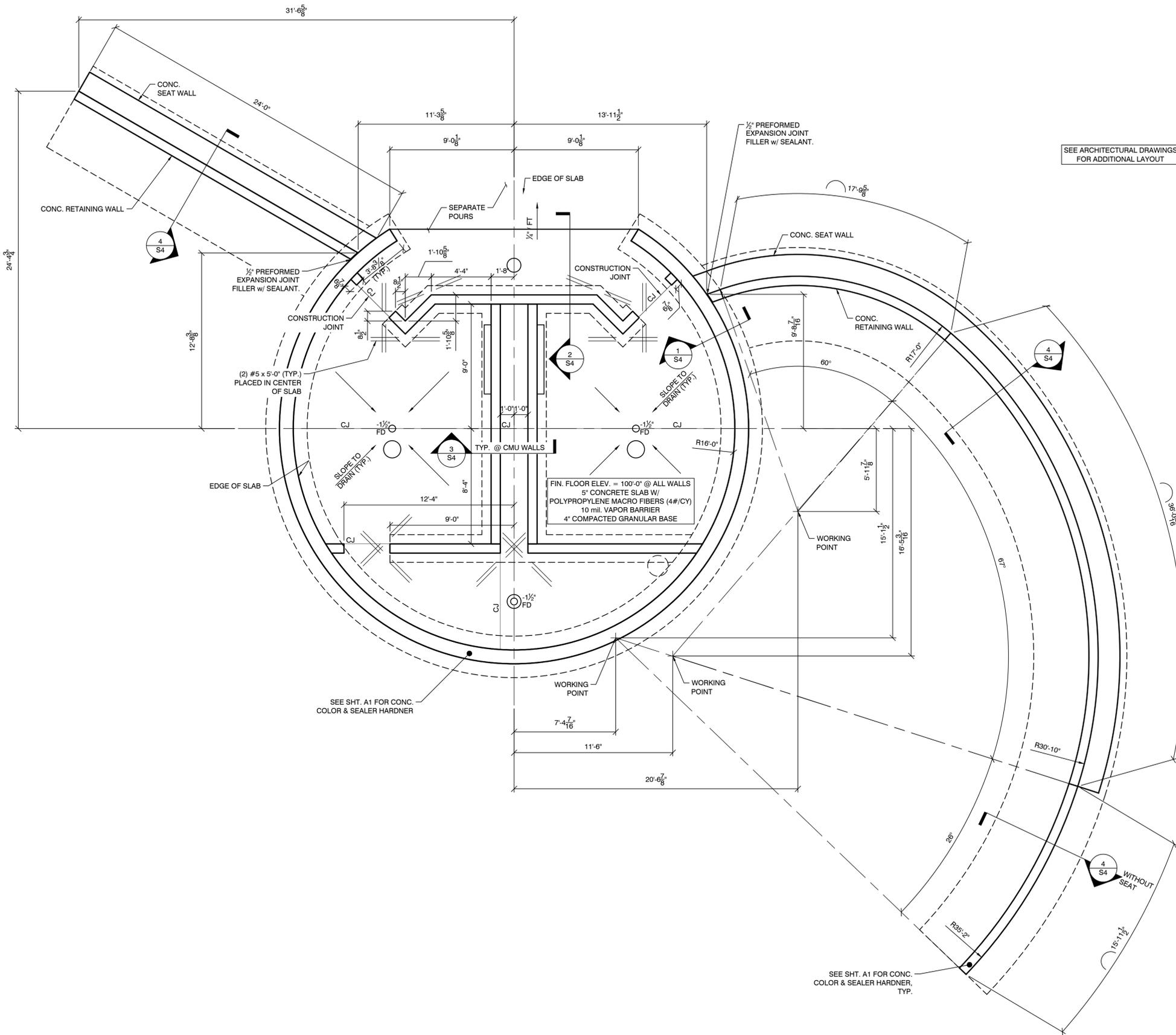
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**GENERAL NOTES & SPECIAL
 INSPECTIONS**



PROJECT NO: 14626	
S1	
SHEET 1	OF 4

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GENERAL NOTES

1. B/FOOTING EL. = 97'-0"
2. SEE ARCH. DWGS. AND SPECIFICATIONS FOR LOCATION OF "WOOD" PATTERN FINISH ON CONCRETE WALLS.
3. SEAL CONCRETE FLOOR SLAB WITH CURE AND SEAL PRODUCT OR APPROVED PRODUCT.

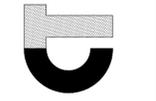
SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL LAYOUT

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



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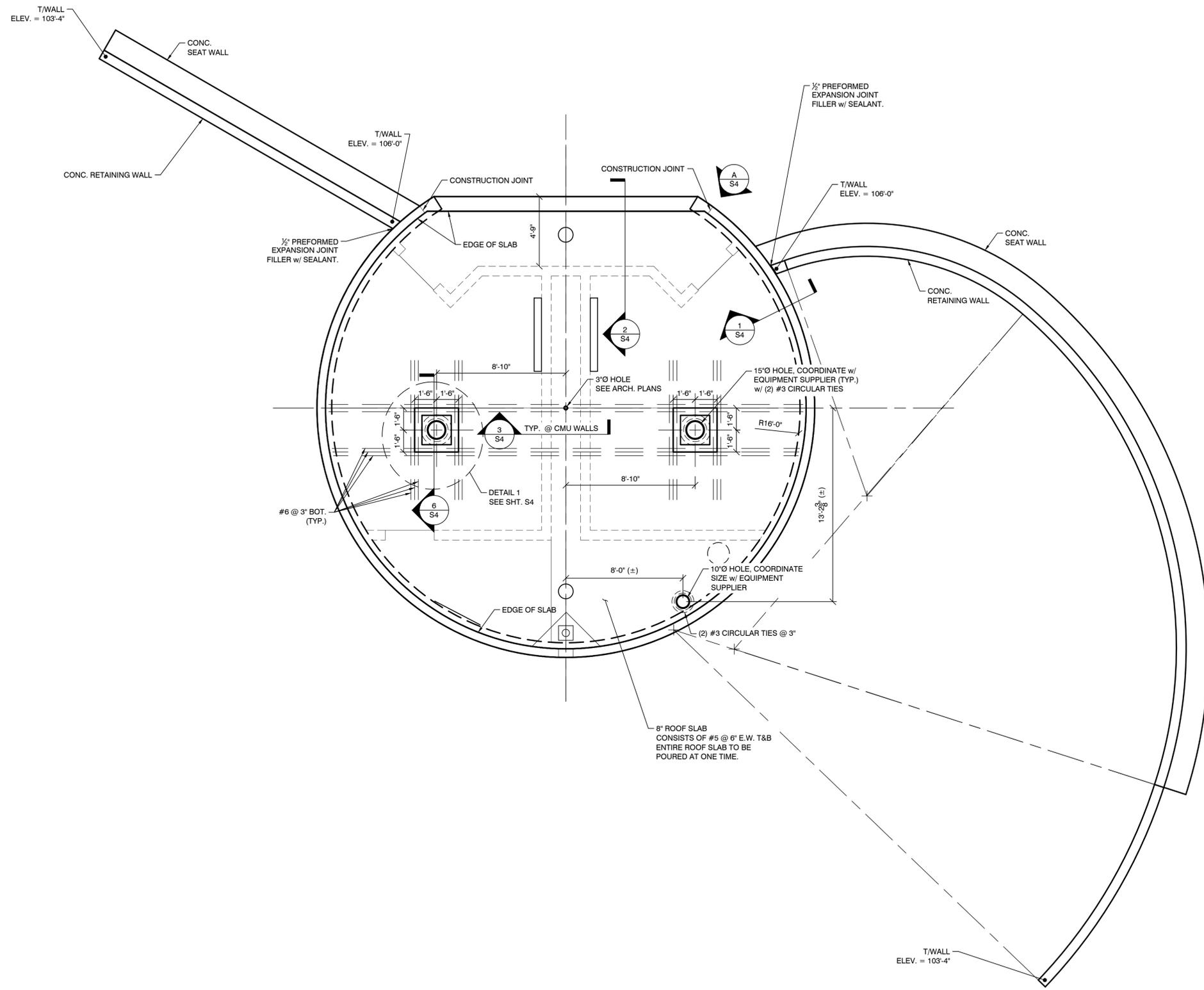
FOUNDATION PLAN

PROJECT NO:	
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GENERAL NOTES

- SEE ARCH. DWGS. FOR LOCATION OF WOOD PATTERN FINISH ON CONCRETE WALLS.

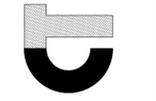


ROOF PLAN

SCALE: 1/4" = 1'-0"



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ROOF SLAB PLAN

PROJECT NO:	
14626	
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SHEET	OF
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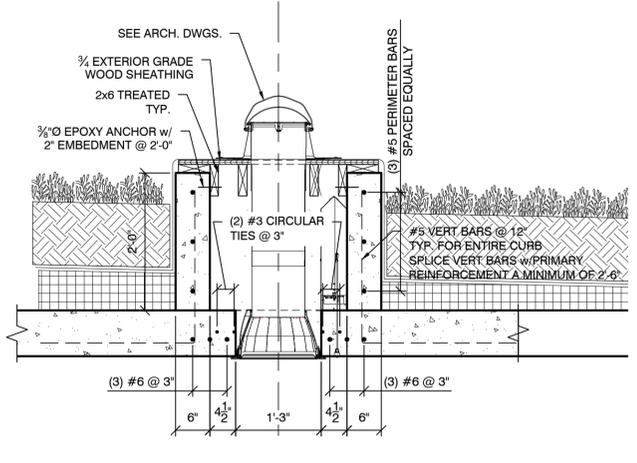
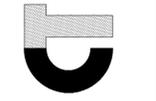
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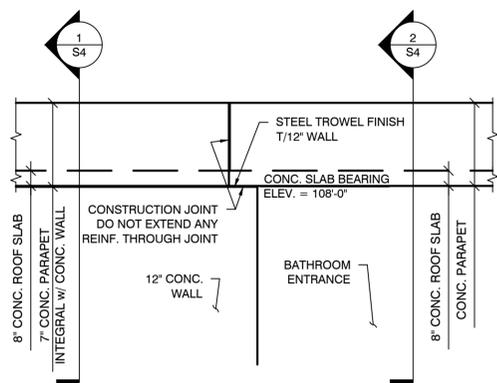
GENERAL NOTES

- SEE ARCH. DWGS. FOR LOCATION OF WOOD PATTERN FINISH ON CONCRETE WALLS.

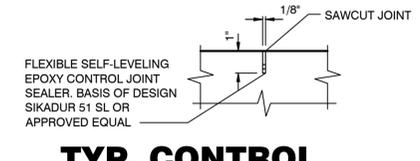
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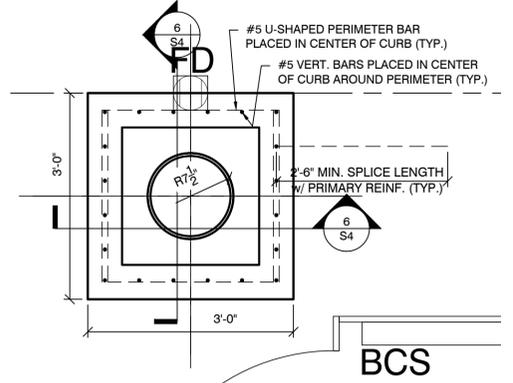
SECTION
 SCALE: 3/4" = 1'-0"
 NOTE: PRIMARY SLAB REINFORCEMENT NOT SHOWN FOR CLARITY



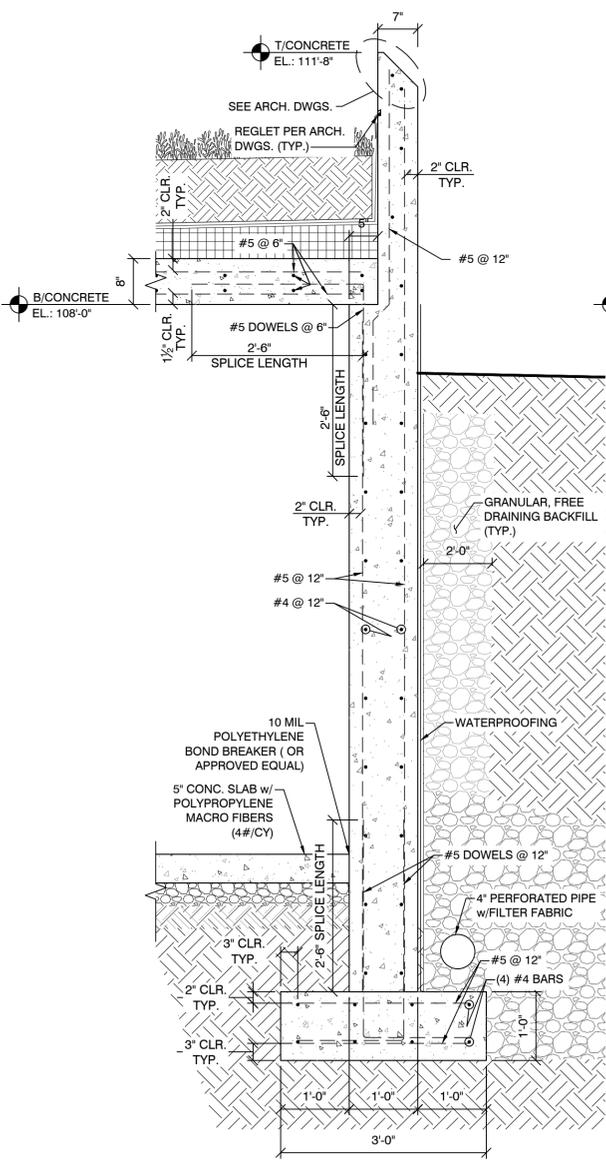
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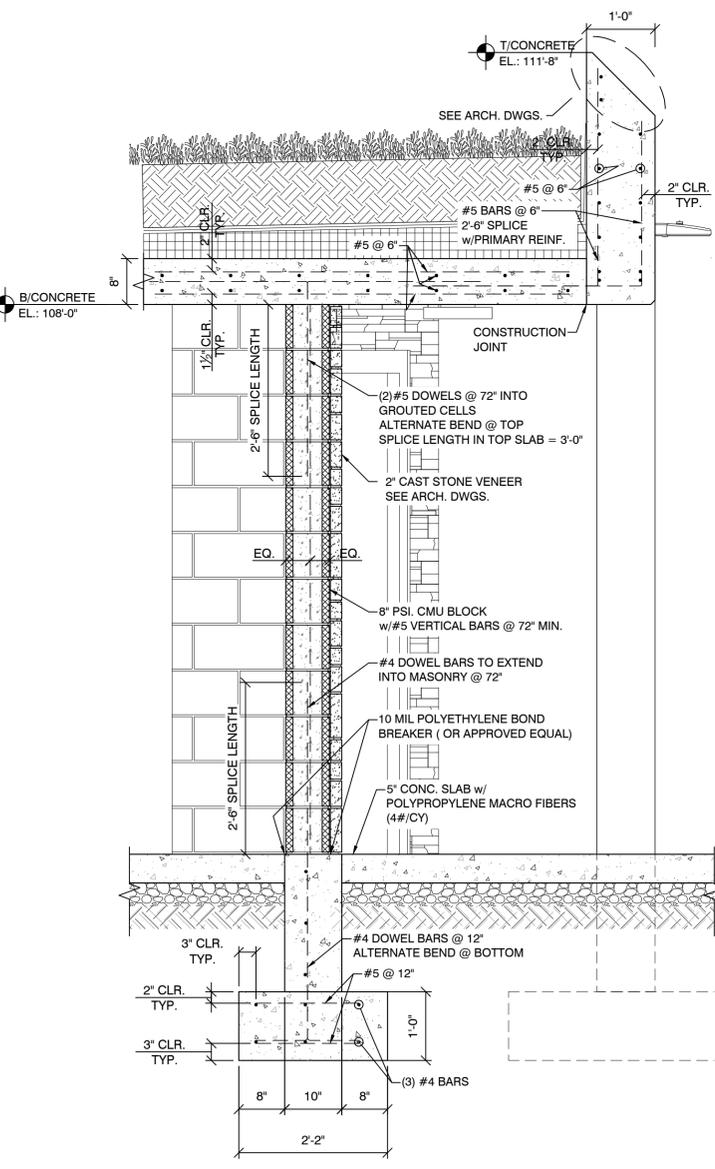
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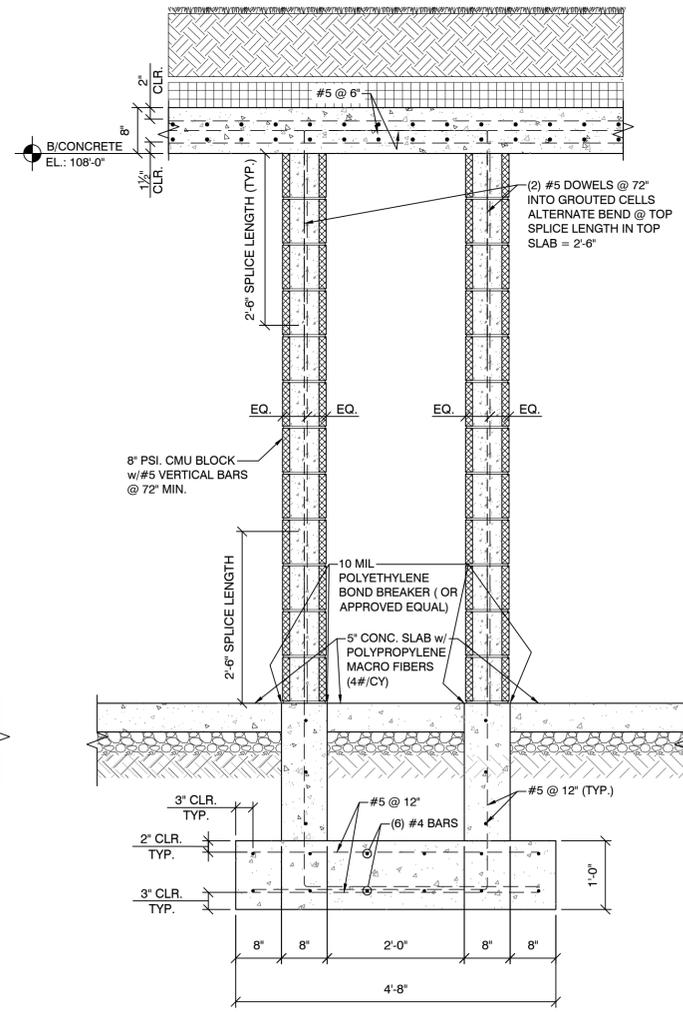
DETAIL
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 • PRIMARY SLAB REINFORCEMENT NOT SHOWN FOR CLARITY
 • FOR CLARITY, NOT ALL SPLICES BETWEEN #5 VERT. BARS & PRIMARY REINFORCEMENT SHOWN



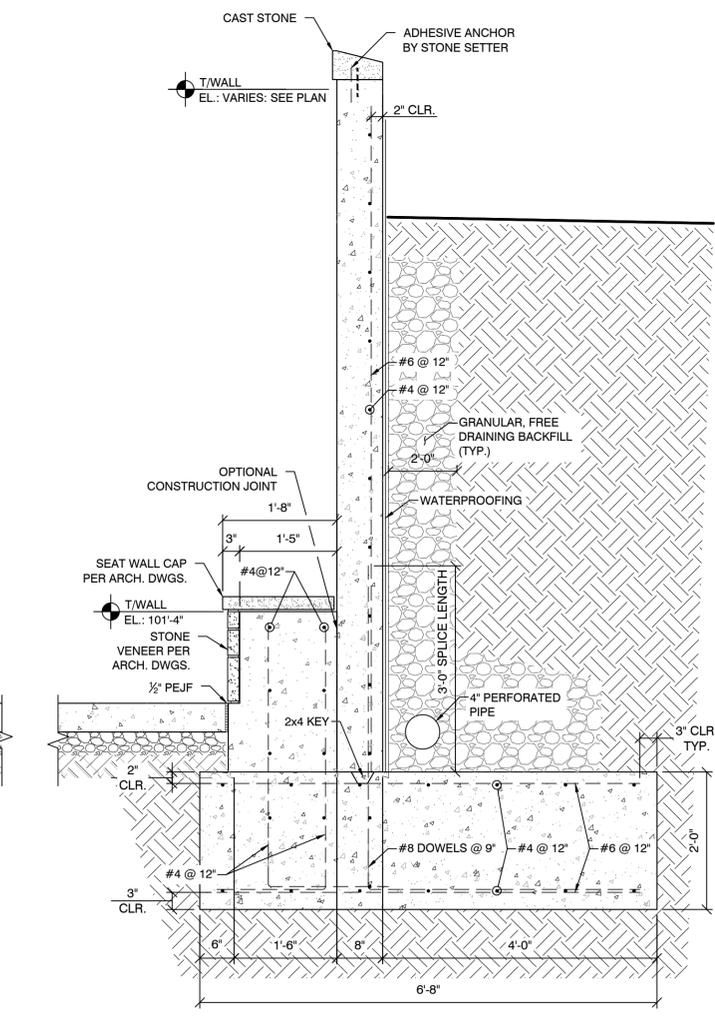
SECTION
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SECTION
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SECTION
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SECTION
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PROJECT NO: 14626	
S4	
SHEET 4	OF 4

SECTIONS AND DETAILS

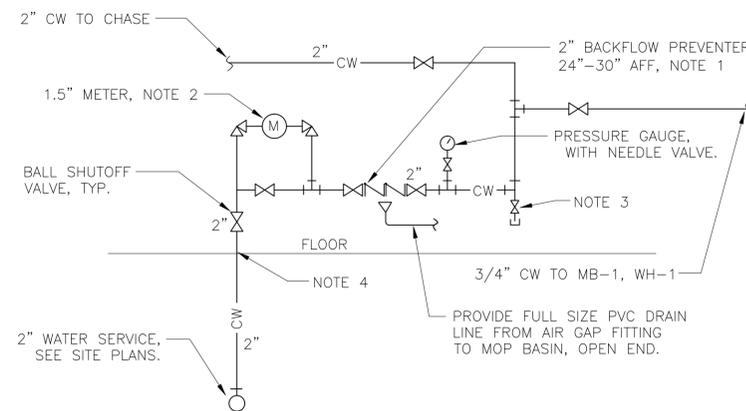
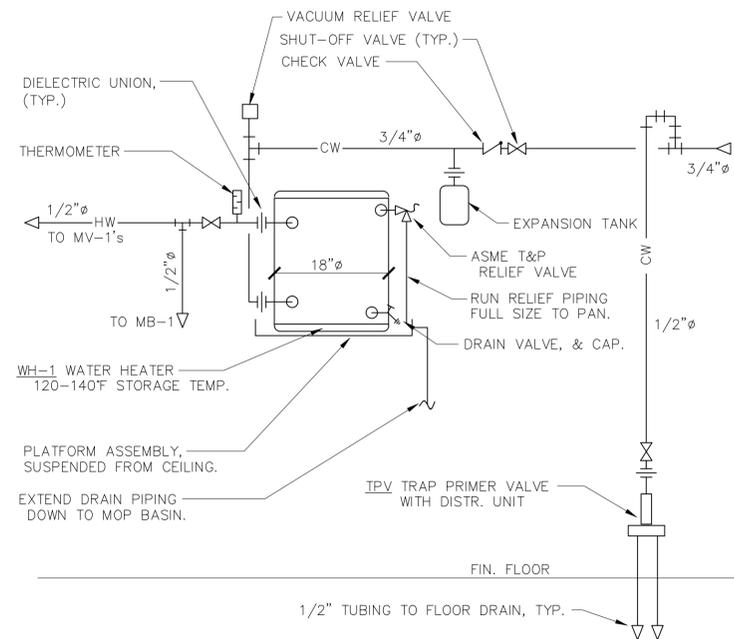
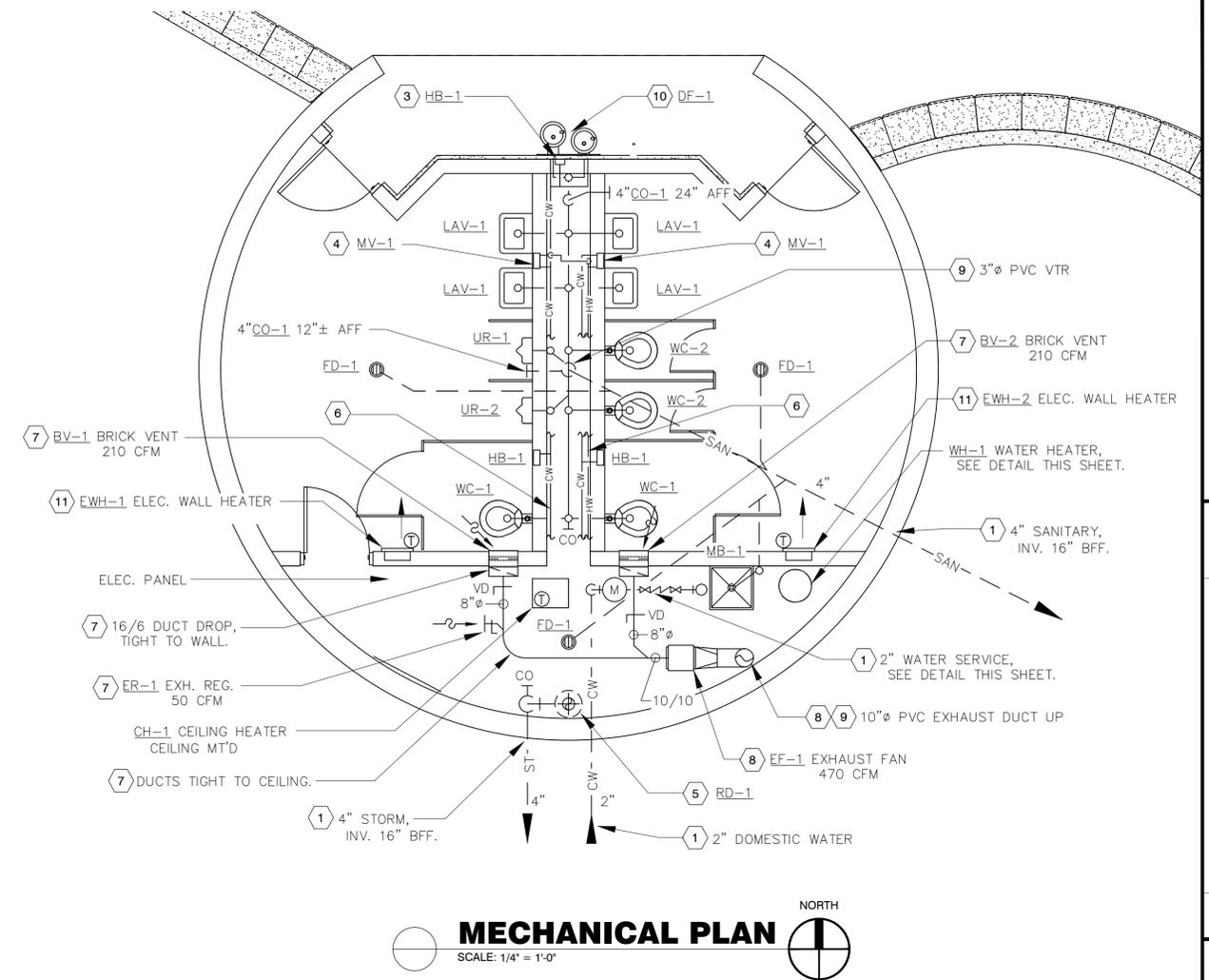
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SYMBOL LEGEND

	THERMOMETER		DOMESTIC COLD WATER
	PRESSURE GAUGE		TEMPERED WATER
	UNION		DOMESTIC HOT WATER
	SHUT-OFF VALVE		STORM PIPING
	CHECK VALVE		SANITARY PIPING
	REGULATING VALVE		VENT PIPING
	BALANCING VALVE		PIPING - UNDERFLOOR OR UNDERGROUND
	REDUCER, CONCENTRIC	AFF	ABOVE FINISHED FLOOR
	REDUCER, ECCENTRIC	BFF	BELOW FINISHED FLOOR
	SHUT OFF VALVE IN RISER	AFG	ABOVE FINISHED GRADE
	FLOW DIRECTION	BFG	BELOW FINISHED GRADE
	STRAINER	FD	FLOOR DRAIN
	RELIEF VALVE	TPV	TRAP PRIMER VALVE
	MANUAL AIR VENT	CO	CLEANOUT
	CAP ON END OF PIPE	CB	CATCH BASIN
	PIPING ELBOW UP	MH	MANHOLE
	PIPING ELBOW DOWN	VTR	VENT THRU ROOF
		INV	INVERT
		EL	ELEVATION
		EX	EXISTING
		CTE	CONNECT TO EXISTING
		ETR	EXISTING TO REMAIN
		AD	ACCESS DOOR

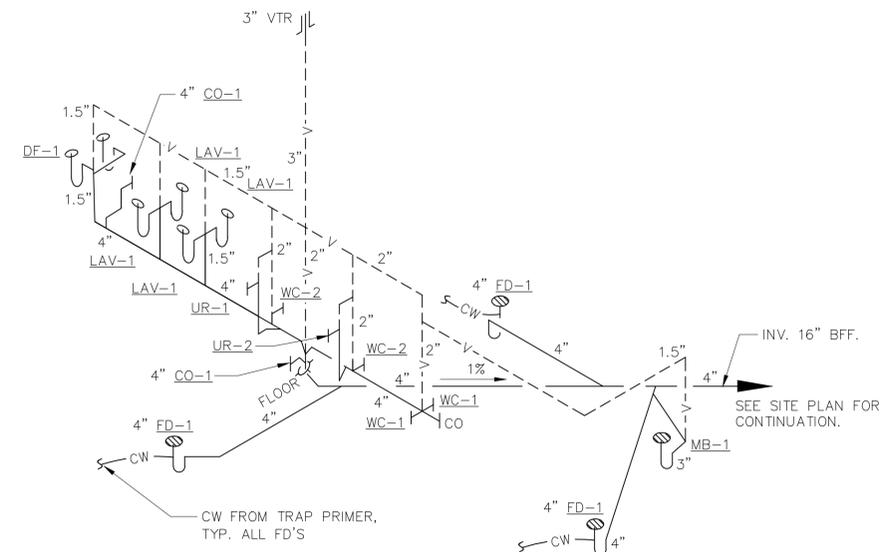
KEYNOTES

- SEE SITE PLANS FOR CONTINUATION.
- SLOPE ALL WATER PIPING TO ALLOW FOR WINTER DRAINING. PROVIDE DRAIN VALVE & CAP AT ALL LOW POINTS.
- INSTALL HOSE BIBB AT 16"± AFF, BELOW DRINKING FOUNTAIN.
- INSTALL MIXING VALVES 16"-24" AFF, AND EXTEND 1/2" TEMPERED WATER TO EACH LAV.
- EXTEND 4" STORM PIPING FROM ROOF DRAIN (GREEN ROOF) DOWN ALONG WALL, WITH CLEANOUT NEAR FLOOR, AND OFFSET AS NEEDED TO CLEAR WATER SERVICE.
- EXTEND 1.5" CW ALONG EACH SIDE OF CHASE TO FIXTURES. REDUCE CW AFTER LAST FLUSH VALVE. EXTEND 1/2" HW ALONG ONE SIDE OF CHASE. CONNECT 1/2" CW/HW TO MV-1 MIXING VALVES. EXTEND 3/4" CW TO HB-1 AT END, AND DF-1. ANY WATER PIPING CROSSING THE CHASE SHALL BE INSTALLED TIGHT TO CEILING.
- INSTALL BV-1 BRICK VENT AS HIGH AS FEASIBLE; SEE ARCH ELEVATIONS. INSTALL EXHAUST DUCTS TIGHT TO CEILING, AND ROUTE TO EF-1 EXHAUST FAN. ROUTE 16/6 EXHAUST DUCTS DOWN, TIGHT ALONG WALL, TO BRICK VENT, FOR MAX HEADROOM. MAINTAIN CLEARANCE FROM ELEC PANEL.
- SUSPEND EF-1 EXHAUST FAN AS HIGH AS FEASIBLE. INTERIOR DUCTS TO BE GALVANIZED STEEL. PROVIDE FLEX CONNECTION AT INLET & OUTLET. TRANSITION DISCHARGE DUCT TO PVC, AND ROUTE UP THRU CONCRETE ROOF, GREEN ROOF, AND EXTEND ABOVE GRADE. TERMINATE 10"Ø PVC DUCT WITH (2) 90° ELBOWS (GOOSENECK), AND STAINLESS STEEL BIRDSCREEN ON END, 24" AFG.
- PVC PIPE/DUCT PENETRATION THRU CONCRETE ROOF TO BE WEATHERPROOF WITH "LINK-SEAL" MODULAR SEALING UNIT. PROVIDE PIPE SLEEVE SIZED PER MFR'S GUIDELINES.
- USE SPECIAL CARE WHEN INSTALLING DUAL DRINKING FOUNTAIN. COORDINATE WITH MASON TO INSTALL WALL MOUNTING PLATE PER MFR'S REQUIREMENTS. PROVIDE VALVING AND DISCONNECT MEANS ON WATER PIPING, TO FREEZEPROOF UNIT FOR NON USE IN WINTER.
- ELEC. WALL HEATERS TO BE RECESSED IN WALL, 8" AFF. COORDINATE EXACT LOCATION WITH DOORS, ETC.



NOTES:

- BACKFLOW PREVENTER TO BE 2", REDUCED PRESSURE TYPE, WATTS #909-QT OR EQUAL, WITH AIR GAP FITTING.
- PROVIDE 1.5" WATER METER SETTING PER CITY OF COLUMBUS, DIVISION OF WATER REQUIREMENTS.
- PROVIDE 1/2" VALVE AND CAP FOR WINTER DRAINING.



DATE	REVISION	NO.	DRAWING SCALE	AS NOTED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
					11/11/16	JRW	JRW	JRW

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MECHANICAL PLAN & DETAILS

PROJECT NO: 14626	
M1	
SHEET 1	OF 2

MECHANICAL SPECIFICATIONS

- GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS OF THE CONTRACT APPLY TO ALL WORK ON THIS DIVISION. PROVIDE ALL EQUIPMENT INDICATED, LABOR, MATERIALS, TOOLS, ETC. REQUIRED FOR COMPLETE, FULLY ADJUSTED AND READY-TO-USE MECHANICAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE PLANS. ALL MECHANICAL WORK SHALL COMPLY WITH THE OHIO BUILDING CODE, OHIO MECHANICAL AND PLUMBING CODES, LOCAL DEPARTMENT OF HEALTH REGULATIONS, GAS COMPANY REGULATIONS, ALL APPLICABLE LOCAL CODES, NFPA STANDARDS NO. 54 AND 70, THE PLANS PROVIDED AND ACCEPTED ENGINEERING PRACTICES. THE MOST STRINGENT CODE OR STANDARD SHALL APPLY. THE CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH OSHA SAFETY RULES AND REGULATIONS. DRAWINGS INDICATE SIZE AND APPROXIMATE LOCATION OF VARIOUS WORK AND ARE TO BE USED AS GENERAL GUIDE FOR INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING PROPOSED CONSTRUCTION SITE AND BECOMING AWARE OF ALL CONDITIONS AFFECTING THIS WORK, REGARDLESS OF THE DETAILS SHOWN ON THE PLANS, PRIOR TO BIDDING THE JOB. CONTACT THE ENGINEER WHEREVER ANY CLARIFICATION OF THE PLANS OR SPECIFICATIONS IS REQUIRED.
- PLUMBING FIXTURES SHALL BE PROVIDED WITH FAUCETS, TRIM, AND TOILET SEATS AS MANUFACTURED BY AMERICAN STANDARD, KOHLER, ELJER, JUST, ACORN, ELKAY, BRADLEY, WILLOUGHBY, AS INDICATED ON THE PLANS AND LISTED IN PLUMBING FIXTURE SCHEDULES. INSTALL ALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE AMERICAN DISABILITIES ACT REQUIREMENTS. PROVIDE INSULATION KIT FOR LAVATORIES AS MANUFACTURED BY TRUEBRO OR BROCAR. PROVIDE FLOOR MOUNTED CONCEALED SUPPORTS FOR ALL PLUMBING FIXTURES. SUPPORT SHALL BE SELECTED CONSIDERING ALL CONDITIONS SUCH AS TYPE OF FIXTURES WALL AND FLOOR CONSTRUCTION, SERVICE, ETC.. SEAL JOINTS BETWEEN FIXTURES AND WALLS AND FLOORS USING SANITARY TYPE MILDEW RESISTANT SILICONE SEALANT. PROVIDE DRAINS, CLEANOUTS, SUPPORTS AS MANUFACTURED BY J.R. SMITH, JOSAM, WADE, OR ZURN. ALL FIXTURE SUPPLY RISERS SHALL BE CHROME-PLATED FLEXIBLE COPPER TUBE WITH KNOB END. ALL TRAPS SHALL BE CHROME-PLATED CAST BRASS WITH SLIP JOINT INLET. PROVIDE CHROME-PLATED CAST BRASS ESCUTCHEONS AT ALL PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.
- WATER HEATERS SHALL BE A.O. SMITH OR EQUALS BY STATE, LOCHINVARI, RUUD. PROVIDE VALVED DIELECTRIC UNION CONNECTIONS, DRAIN VALVE WITH HOSE CONNECTION AND TEMPERATURE & PRESSURE RELIEF VALVE. EXTEND RELIEF VALVE FULL SIZE TO 6" ABOVE FLOOR DRAIN OR AS INDICATED.
- WATER PIPING, ABOVE-GROUND SHALL BE TYPE "L" SEAMLESS COPPER WITH BRIDGIT NICKEL-BEARING, LEAD-FREE SOLDER, PER ASTM B32-89. INSULATE ALL WATER PIPING WITH JOHNS-MANVILLE "MICRO-LOK" FIBERGLASS PIPE INSULATION WITH ALL PURPOSE JACKETING AND PVC FITTING COVERS. INSULATION THICKNESS TO BE 1/2" FOR PIPING UP TO 1.25"Ø, AND 1" THICK FOR 1.5"Ø PIPING AND LARGER. PIPE SIZE CHANGES TO BE MADE WITH PROPER REDUCING FITTINGS. BELOW GROUND WATER PIPING 2" AND SMALLER SHALL BE TYPE "K" COPPER WITH FLARED JOINTS.
 - PROVIDE SHOCK STOPS AT EACH HOT AND COLD WATER FIXTURE BRANCH CONNECTIONS AND WHERE QUICK-CLOSING VALVES ARE UTILIZED TO ELIMINATE HAMMER AND EXCESSIVE NOISE, WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, CONFORMING TO ASSE 1010.
 - ALL WATERLINES SHALL BE PROVIDED WITH SHUT-OFF VALVES. PLACE VALVES IN ALL MAIN RISERS, HORIZONTAL BRANCHES TO GROUPS OF TWO OR MORE FIXTURES, TO EACH PIECE OF EQUIPMENT NOT PROVIDED WITH STOP VALVES. WHERE PIPING IS INSULATED, BALL VALVES SHALL BE EQUIPPED WITH 2" EXTENDED HANDLES OF NON-THERMAL CONDUCTIVE MATERIAL.
 - BALL VALVES: (MANUFACTURERS: APOLLO, NIBCO, MILWAUKEE, STOCKHAM) 2" AND SMALLER, SOLDER OR THREADED END, BRONZE BODY, CHROME-PLATED BRONZE BALL, 1/4 TURN, TEFLON SEAT RING, BLOW-OUT PROOF STEM.
- STORM, SANITARY AND VENT PIPING SHALL BE DWV, SOLID WALL, SCHEDULE 40, PVC PIPE: ASTM D2665 WITH PVC SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS. INSULATE STORM DRAIN, AND ALL STORM PIPING/FITTINGS WITH 1" THICK FIBERGLASS INSULATION WITH ALL PURPOSE JACKETING AND PVC FITTING COVERS.
- MAKE NECESSARY CONNECTIONS TO ALL FIXTURES, EQUIPMENT, ETC. REQUIRING WATER, STORM, SANITARY, VENT, ETC CONNECTIONS. PROVIDE TRAP FOR EACH FIXTURE OR EQUIPMENT REQUIRING CONNECTION TO SANITARY DRAINAGE SYSTEM.
- ALL COPPER AND PLASTIC PIPING INSTALLED THRU HOLES OR NOTCHES IN STUDS, JOISTS OR SIMILAR MEMBERS LESS THAN 1-1/2" FROM THE NEAREST EDGE OF MEMBER, THE PIPE SHALL BE PROTECTED BY 1/16" (MIN) THICK STEEL SHIELD PLATES, THE PROTECTIVE SHIELD PLATES SHALL EXTEND MIN. OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.
- TEST ALL PIPING SYSTEMS PER THE OHIO PLUMBING CODE OR OTHER ENTITIES RESPONSIBLE FOR SPECIAL PIPING SYSTEMS. TEST ALL COPPER HOT AND COLD WATER PIPING AT NOT LESS THAN 125 PSIG. TEST STORM, WASTE AND VENT PIPING SYSTEMS WITH 10-FT HEAD OF WATER. ADJUST ALL COMPONENTS OF PLUMBING SYSTEMS TO OBTAIN PROPER FLOW, WATER TEMPERATURE AND ELIMINATION OF NOISE AND VIBRATION.
- ALL DUCTWORK, UPSTREAM OF EXHAUST FAN SHALL BE GALVANIZED SHEET STEEL CONSTRUCTED AND INSTALLED PER ASHRAE AND SMACNA STANDARDS. ALL DUCTWORK, DOWNSTREAM OF EXHAUST FAN, AND UNDERGROUND SHALL BE POLYVINYL CHLORIDE (PVC). ALL ELBOWS SHALL HAVE RADIUS/HEIGHT RATIO OF 1.5 MINIMUM OR CONTAIN TURNING VANES. TAKE-OFF FITTINGS SHALL BE 1.5 TIMES THE BRANCH AREA. PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS, IN ALL BRANCH DUCTS. UPON COMPLETION OF CONSTRUCTION, BALANCE THE AIRFLOWS IN ACCORDANCE WITH ASHRAE STANDARDS.
 - ALL DUCTS TO HAVE JOINTS SEALED WITH UNITED DUCT SEALER AS MANUFACTURED BY UNITED MCGILL CORP. WITH U.L. CLASSIFICATION #15 FLAME SPREAD AND #20 SMOKE RATING OR APPROVED EQUAL. STATIC PRESSURE CLASS TO BE "1" OR AS INDICATED. DUCT SEAL CLASS FOR SUPPLY AND RETURN DUCTS TO BE TYPE "B", ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS. DUCT SEAL CLASS FOR EXHAUST DUCTS TO BE TYPE "C", ALL TRANSVERSE JOINTS.
 - PROVIDE DUCT ACCESSORIES AS INDICATED ON THE PLAN AND IN ACCORDANCE WITH OMC. CONNECT ALL SHEET METAL DUCT WORK TO MOTOR DRIVEN DEVICES WITH FLEXIBLE NEOPRENE COLLARS. FASTEN WITH STEEL ANGLES TO ACHIEVE AIRTIGHT JOINTS.
- PROVIDE ALL PIPES, DUCTS, EQUIPMENT, ETC., WITH APPROPRIATE HANGERS, SUPPORTS, CURBS, FOUNDATIONS, ETC., AS REQUIRED TO ENSURE A SAFE AND PERMANENT INSTALLATION IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES. INSTALL EQUIPMENT LEVEL WITHIN THE MANUFACTURER'S TOLERANCES.
- PROVIDE APPROPRIATE WALL SLEEVES, THIMBLES, PLATES, ETC., WHEREVER WALLS, FLOORS, ROOFS, ETC., ARE PIERCED FOR THE INSTALLATION OF PLUMBING SYSTEMS. CUTTING AND PATCHING FOR THE INSTALLATION OF PLUMBING SYSTEMS IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID DUPLICATION OF EFFORTS.
- AT ALL TIMES, KEEP THE PREMISES AND BUILDING IN A NEAT AND ORDERLY CONDITION FOLLOWING EXPLICITLY THE INSTRUCTIONS OF THE ARCHITECT IN REGARD TO STORING OF MATERIALS, PROTECTIVE MEASURES, DISPOSING OF DEBRIS, WORK SCHEDULES, PARKING, ETC.
 - AT THE COMPLETION OF THE JOB AND PRIOR TO FINAL ACCEPTANCE OF BUILDING BY THE OWNER, CLEAN ALL EQUIPMENT, LEAVING SAME CLEAN AND POLISHED. THIS SHALL INCLUDE ALL FIXTURES, DRAINS, PIPES, AND EQUIPMENT. CLEANING SHALL NOT BE DONE UNTIL ONE WEEK PRIOR TO FINAL ACCEPTANCE OF THE BUILDING.
- PROVIDE IDENTIFYING DEVICE AND LABELS FOR ALL PIPING SYSTEMS AND MAJOR PLUMBING EQUIPMENT. PIPE MARKERS TO BE PERMANENT ADHESIVE VINYL, COLOR CODED. PIPE MARKERS TO BE SPACED AT 30-FOOT MAXIMUM INTERVALS, NEAR EACH BRANCH, WALL, AND PIECE OF EQUIPMENT. EQUIPMENT MARKERS SHALL BE ENGRAVED PLASTIC LAMINATE.
- CLOSEOUT PROCEDURES:
 - INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT PROVIDED. FURNISH THE ARCHITECT TYPEWRITTEN OR BLUEPRINTED INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT INCLUDED IN THIS CONTRACT IN ACCORDANCE WITH DIVISION 1 SPECIFICATIONS.
 - PROVIDE START-UP SERVICES FOR ALL EQUIPMENT. LUBRICATE ALL EQUIPMENT PER THE MANUFACTURER'S INSTRUCTIONS PRIOR TO START-UP. INSTALL AN INITIAL CHARGE OF ALL SUPPLIES REQUIRED FOR NORMAL OPERATION.
 - CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM CONTRACT DRAWINGS AND SPECIFICATIONS. AT COMPLETION OF JOB AND BEFORE FINAL APPROVAL, MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND SUBMIT "AS-BUILT" DRAWINGS IN ACCORDANCE WITH DIVISION 1 SPECIFICATIONS.

HVAC EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
BV-1,2	RUSKIN #BV100 BRICK VENT, NOMINAL 16"x8", EXTRUDED ALUMINUM CONSTRUCTION, INSECT SCREEN, .100" THICK FRAME AND BLADES, CLEAR ANODIZED COATING. EQUALS BY GREENHECK, AMER. WARMING, AIROLITE.
ER-1	TITUS 350-FL-1 ALUMINUM EXHAUST GRILLE, 6"x6", SURFACE MOUNT, 35" BLADE DEFLECTION, 3/4" BLADE SPACING, OPPOSED BLADE DAMPER, WHITE FINISH. EQUALS BY PRICE, KRUEGER, ANEMOSTAT.
EF-1	COOK #90SQN12D EXHAUST FAN, SQUARE INLINE, DIRECT DRIVE, CENTRIFUGAL ALUMINUM WHEEL, 470 CFM @ 0.20" S.P., 1600 RPM, 1/6 HP, 120V/1Ø, 8 SONES. WITH LORENIZED COATING, DISCONNECT SWITCH, MOTOR OPERATED DAMPER, R.I.S. ISOLATORS. EQUALS BY GREENHECK, PENN-BARRY, JENCO
EW-1,2	MARKEL #H3425T ELECTRIC WALL HEATER, HEAVY DUTY, FAN FORCED. 16 GAUGE HOUSING, TAMPERPROOF GRILLE, CORROSION RESISTANT STEEL TUBULAR ELEMENTS WITH BRAZED STEEL FINS, BUILT-IN TAMPERPROOF THERMOSTAT, 5,000 WATTS, 17,065 BTUH, 240V/1Ø, 20.8 AMPS. EQUALS BY CHROMALOX, INDEECO, BERKO, QMARK.
CH-1	MARKEL #HF3384D-RP-T ELECTRIC CEILING HEATER, HEAVY GAUGE STEEL HOUSING, FAN FORCED, BLOCK FINNED TYPE, STEEL FIN, WITH: SURFACE MOUNTING ADAPTER, BUILT-IN THERMOSTAT, 2,000 WATTS, 6,826 BTUH, 240V/1Ø, 8.3 AMPS. EQUALS BY CHROMALOX, INDEECO, BERKO, QMARK.

PLUMBING FIXTURE SCHEDULE

SYMBOL	QUANT. (NOTE1)	DESCRIPTION	MIN. SUPPLY PIPE SIZE					MOUNT'G HEIGHT
			HW	CW	VENT	TRAP	WASTE	
WH-1	1	A.O. SMITH "DURA-POWER" #DEL-10 WATER HEATER COMMERCIAL, ELECTRIC, 18"Ø x 18" HIGH, 10 GAL CAP., 7 GPH @ 90F TEMP. RISE 1,500 WATT, SINGLE ELEMENT, 120V/1Ø, WITH: #PMC-2 EXPANSION TANK, HOLDRITE "QUICK STAND" #30-SWHP-M, SUSPENDED EQUIPMENT PLATFORM, 18 GAGE PAN, DRAIN NIPPLE, WATER TIGHT WELDED CORNERS, THREADED RODS.	3/4"	3/4"	-	-	-	CEILING SUSPENDED
WC-1	2	WILLOUGHBY #ETWS-1490-CM WATER CLOSET 14 GAUGE, 304 STAINLESS STEEL, #4 SATIN EXPOSED FINISH, CARRIER MOUNTED, ELONGATED BOWL, SIPHON JET FLUSH, 1.28 GPF, WITH BACK SPUD, HIGH POLISH SEAT. WITH ZURN #Z1203-N-X HEAVY-DUTY 500LB CARRIER WITH REAR ANCHOR TIE DOWN, CAST-IRON COUPLING, AND PROVISIONS FOR 8" BLOCK WALL. WITH SLOAN OPTIMA #152-1.28 ES-S TWO SWB FLUSHOMETER, SENSOR OPERATED, CONCEALED, WITH MECH OVERRIDE, 13"/13" STAINLESS STEEL WALL BOX, AND 120V/24V X'FMR (NOTE 2).	-	1-1/4"	2"	INT.	4"	[ADA] SEE ARCH ELEV'S.
WC-2	2	SAME AS WC-1 EXCEPT FOR MOUNTING HEIGHT.	-	1-1/4"	2"	INT.	4"	SEE ARCH ELEV'S.
UR-1	1	WILLOUGHBY #UW-1317-HEU URINAL 16 GAUGE, 304 STAINLESS STEEL, SATIN EXPOSED FINISH, ALL-WELDED, WALL MOUNTED, CONTOURED SURFACES, 3/4" BACK SPUD, WASHOUT TYPE, 0.25 GPF, WITH 4-POINT ANCHORING SYSTEM AND ALL HARDWARE. WITH SLOAN OPTIMA #195-0.25 ES-S TWO SWB FLUSHOMETER, SENSOR OPERATED, CONCEALED, WITH MECH OVERRIDE, 13"/13" STAINLESS STEEL WALL BOX, AND 120V/24V X'FMR (NOTE 2).	-	3/4"	1-1/2"	1-1/2"	2"	[ADA] SEE ARCH ELEV'S.
UR-2	1	SAME AS UR-1 EXCEPT FOR MOUNTING HEIGHT.	-	3/4"	1-1/2"	1-1/2"	2"	SEE ARCH ELEV'S.
LAV-1	4	WILLOUGHBY #ES-1015-HC LAVATORY 16 GAUGE, TYPE 304 STAINLESS STEEL, ALL-WELDED, WITH EXPOSED #4 SATIN FINISH, WALL MOUNTED. WITH 4" FAUCET CENTERS FOR CHICAGO #802-VE2805-665CP CAST BRASS METERING FAUCET, PUSH BUTTONS, 1/2" BRASS INLETS, 0.5 GPM V.P. AERATOR, 0.25 GAL/CYCLE. WITH CHROME PLATED ADJUSTABLE P-TRAP, SUPPLIES WITH STOPS, TRUEBRO WHITE #102 SUPPLY/TRAP WRAP ASSEMBLIES. WITH "Z-CLIP" FRONT ANCHORING AND HARDWARE.	1/2" TW	1/2"	1-1/2"	1-1/2"	1-1/2"	[ADA] SEE ARCH ELEV'S.
DF-1	1	ELKAY #EHWM-217C DRINKING FOUNTAIN TWO LEVEL, WALL MOUNTED, HEAVY DUTY, #14 GAUGE TYPE 304 STAINLESS STEEL, POLISHED SATIN FINISH, CONTOURED BASINS. WITH VANDAL RESISTANT BUBBLERS, FRONT PUSH BUTTONS, FLOW REGULATOR, DRAIN, TRAP ASSEMBLIES, 14 GAUGE BOTTOM COVER PLATE, AND SURFACE MOUNTING PLATE,	-	1/2"	1-1/2"	1-1/4"	1-1/2"	[ADA] SEE ARCH ELEV'S.
MV-1	2	LEONARD #270-STSTL-REC MIXING VALVE THERMOSTATIC, BRONZE BODY, ASSE 1017 & 1070 LISTED, 1/2" CONN'S, FOR MULTIPLE LAV'S, 3.5 GPM @ 5 PSI DROP, STAINLESS STEEL RECESSED CABINET	1/2"	1/2"	-	-	-	SEE PLAN
HB-1	3	J.R. SMITH #55090T NON-FREEZE HYDRANT WITH BRONZE NICKEL PLATED 1/4 TURN HYDRANT, 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER, STAINLESS STEEL BOX, WITH HINGED LOCKING COVER, AND T" HANDLE KEY	-	3/4"	-	-	-	24" AFF
MB-1	1	FIAT #MSB-24x24 MOP SERVICE BASIN MOLDED STONE WITH DRAIN BODY STRAINER, #889-CC MOP HANGER, #832-AA 30" LONG HOSE & BRACKET, #MSG224x24 S.S. WALLGUARD, #E-77-AA BUMPERGUARDS, WALL MOUNT FAUCET, WITH EXPOSED TOP SUPPLIES, VACUUM BREAKER, 3/4" HOSE THREADED SPOUT, ROUGH CHROME PLATED	1/2"	1/2"	1-1/2"	3"	3"	FAUCET @ 36" AFF
TPV	1	PPP INC. "OREGON #1" TRAP PRIMER VALVE PROVIDE WITH DISTRIBUTION UNIT	-	1/2"	-	-	-	24" AFF

- NOTES: 1. QUANTITIES ARE SHOWN FOR GENERAL REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL EQUIPMENT SHOWN ON PLANS AND DETAILS.
2. FOR SENSOR OPERATED WATER CLOSETS AND URINALS, PROVIDE ELECTRICAL TRANSFORMER QUANTITY/TYPE, ETC AS RECOMMENDED BY THE MANUFACTURER.

DRAIN SCHEDULE

SYMBOL	QUANT. (NOTE1)	DESCRIPTION	TOP FINISH
			GRATE/FRAME
RD-1	1	J.R. SMITH #1015Y-RDP-CID-U ROOF DRAIN 4"Ø OUTLET, CAST IRON BODY, WITH 15"Ø CAST IRON DOME, FLASHING CLAMP AND GRAVEL GUARD, WITH TOP-SET DECK PLATE, ADJUSTABLE EXTENSION TO SUIT INSULATION/ROOF HEIGHT, AND VANDAL PROOF DOME.	FLUSH WITH ROOF
FD-1	3	J.R. SMITH #2005Y-A-P-B FLOOR DRAIN 4"Ø OUTLET, CAST IRON BODY, ADJUSTABLE 8"Ø ROUND NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION, SEDIMENT BUCKET	FLUSH WITH FLOOR
CO-1	2	J.R. SMITH #4434C-U WALL CLEANOUT 4"Ø, CAST IRON BODY, BRONZE PLUG, WITH CHROME PLATED BRONZE SQUARE FRAME AND COVER, VANDAL PROOF SCREWS	FACE OF WALL



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DATE

REVISION

NO.

DRAWING SCALE: AS NOTED

DATE: 11/11/16

DESIGNED BY: JRW

DRAWN BY: JRW

CHECKED BY: JRW

HOLDER WRIGHT PARK
VISITOR ORIENTATION CENTER
4729 BRIGHT RD, DUBLIN OH 43017
MECHANICAL SCHEDULES & SPECIFICATIONS

PROJECT NO:
14626

M2

SHEET **2** OF **2**

ELECTRICAL SYMBOL LEGEND

- DUPLEX RECEPTACLE, 20 A, 120 V, MOUNTED AT 18" AFF U.O.N.
GFI - INDICATES GROUND FAULT INTERRUPTING TYPE
WP - INDICATES WEATHER PROOF IN USE COVER
- DOUBLE DUPLEX RECEPTACLE, 20 A, 120 V, MOUNTED AT 18" AFF U.O.N.
- DUPLEX RECEPTACLE, 20 A, 120 V, CEILING MOUNTED
- SINGLE-POLE SWITCH, 20 A, 120/277 V RATED
- LOW VOLTAGE SENSOR OVERRIDE SWITCH, TO BE PROVIDED WITH THE OCCUPANCY SENSOR/ SWITCH PACK
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- ELECTRICAL PANEL
- DRY TYPE TRANSFORMER
- JUNCTION BOX
- CEILING MOUNTED OCCUPANCY SENSOR
- MOTION DETECTOR
- PHOTO CELL

ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL CONTRACTOR SHALL APPLY FOR AND SECURE ALL COSTS AND CHARGES FOR PERMITS, CONSTRUCTION, AND MISCELLANEOUS WORK ASSOCIATED WITH AND REQUIRED FOR THE COMPLETION OF THE PROJECT ELECTRICAL WORK.
- THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS OF ELECTRICAL WORK BY ALL INSPECTION AUTHORITIES HAVING JURISDICTION. COPIES OF INSPECTION REPORTS SHALL BE MADE AVAILABLE TO THE OWNER UPON REQUEST, AND THREE (3) COPIES OF THE APPROVED FINAL INSPECTION REPORT SHALL ACCOMPANY THE REQUEST FOR FINAL PAYMENT.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, OHIO BUILDING CODE, LOCAL CODES AND ORDINANCES WHERE APPLICABLE, AND REQUIREMENTS OF O.S.H.A.
- ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW, U.L. LISTED OR LABELED, AND CONFORM TO NEMA AND ANSI STANDARD WHERE APPLICABLE.
- THE CONTRACTOR SHALL VISIT THE SITE AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH AFFECT HIS WORK PRIOR TO BID. COORDINATE AND SCHEDULE WORK WITH OTHER TRADES TO ENSURE SATISFACTORY PERFORMANCE, AVOID DELAYS AND DUPLICATIONS AND MEET THE OWNER'S COMPLETION SCHEDULE FOR THE USE OF THE BUILDING.
- ALL WORK SHALL BE INSTALLED BY WORKMEN FULLY SKILLED IN THE WORK TO BE PERFORMED. REPAIR OR REPLACE EXISTING EQUIPMENT OR PROPERTY OF THE OWNER DAMAGED BY ELECTRICAL TRADES WORKMEN.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP PROVIDED BY HIM FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF OWNER'S FINAL ACCEPTANCE. REPAIR OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER WITHIN THE GUARANTEE PERIOD.
- ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE EMT, INTERMEDIATE, OR RIGID GALVANIZED IN ACCORDANCE WITH AND AS PERMITTED BY THE NATIONAL ELECTRICAL CODE OR LOCAL/STATE CODES AS APPLICABLE. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, 1" MINIMUM.
- FURNISH AND INSTALL PULL BOXES, JUNCTION, AND DEVICE BOXES OF SUITABLE CODE GAUGE AND SIZE. ALL TERMINATIONS IN IN-GROUND PULL BOXES SHALL BE LIQUID-TIGHT.
- ELECTRICAL WIRES SHALL BE MINIMUM #12 AWG, COPPER, 600 V RATED. #14 AWG COPPER SHALL BE PERMISSIBLE FOR CONTROL CIRCUITRY. AMPACITY RATINGS SHALL BE BASED UPON 75°C RATINGS.
 - A. #14, #12, AND #10 AWG CONDUCTORS SHALL BE "THHN/THWN".
 - B. #8 AND LARGER SHALL BE STRANDED "THHN/THWN".
- FLEXIBLE METAL CONDUIT INCLUDING LIQUIDTIGHT SHALL BE PERMITTED WHERE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL CODE PROVISIONS. FLEXIBLE METAL CONDUIT SHALL CONTAIN A SEPARATE GROUNDING CONDUCTOR AND BE TERMINATED WITH APPROPRIATE FITTINGS.
- THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO DESCRIBE THE WORK REQUIRED. THE ELECTRICAL CONTRACTOR SHALL ACCURATELY FIELD MEASURE AND LAY OUT HIS WORK TO EFFECTIVELY ACHIEVE A STRUCTURALLY COORDINATED INSTALLATION WITH THE BUILDING LAYOUT AND OTHER TRADES.
- COORDINATE ALL SERVICE ENTRANCE REQUIREMENTS WITH THE LOCAL ELECTRIC UTILITY COMPANY TO ENSURE COMPLIANCE TO UTILITY COMPANY REQUIREMENTS. PROVIDE A COMPLETE GROUNDING SYSTEM.
- DISCONNECTION, RECONNECTION, AND RELOCATION OF EQUIPMENT SHALL BE COORDINATED SO AS TO CAUSE MINIMAL DISRUPTION OF SERVICE.
- RECEPTACLES SHALL BE 20 A, 125 V AC RATED, HUBBELL #5362, LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL EQUIPMENT.
- DEVICE COVER PLATES SHALL BE STAINLESS STEEL OF A TYPE TO SUIT DEVICE. MULTIPLE GANGED PLATES SHALL BE USED WHERE DEVICES ARE ADJACENT TO EACH OTHER. WEATHERPROOF RECEPTACLES SHALL BE EQUIPPED WITH SPRING TYPE CAP COVER PLATES.
- LIGHTING FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NATIONAL ELECTRICAL CODE ARTICLE 410.
- ELECTRICAL DISTRIBUTION PANEL SHALL BE SURFACE MOUNTED DEAD FRONT, WITH A 100A BUS RATING AND A 100A MAIN CIRCUIT BREAKER, WITH CODE GAUGE BACKBOX, LOCKABLE HINGED DOOR, 120/240 V, 1Ø, 3 WIRE WITH SEPARATE NEUTRAL AND GROUND BARS, U.L. LISTED AND CONFORMING TO NEMA STANDARDS, SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. PANEL SHALL BE EQUIPPED WITH SINGLE POLE OR DOUBLE POLE BOLTED BRANCH CIRCUIT BREAKERS AS INDICATED. CIRCUIT BREAKERS SHALL BE RATED 10,000 A.I.C. SYMMETRICAL. PANELBOARDS SHALL BE SQUARE D "NQOD", OR APPROVED EQUAL EQUIPMENT. MULTI-POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP.
- PROVIDE TYPEWRITTEN PANELBOARD CIRCUIT DIRECTORY IN PANELBOARD DOOR IDENTIFYING ALL ACTIVE CIRCUITS AND SPARES. ACTIVE CIRCUITS SHALL DESIGNATE EQUIPMENT SERVED.
- IDENTIFY PANELBOARDS AND USAGE OF PANELBOARD CIRCUIT BREAKERS WITH PLASTIC LAMINOID NAMEPLATES. NAMEPLATES SHALL INDICATE PANEL DESIGNATION, VOLTAGE, AND USE.
- BALANCE ALL LOADS IN PANELBOARDS.

KEYNOTES

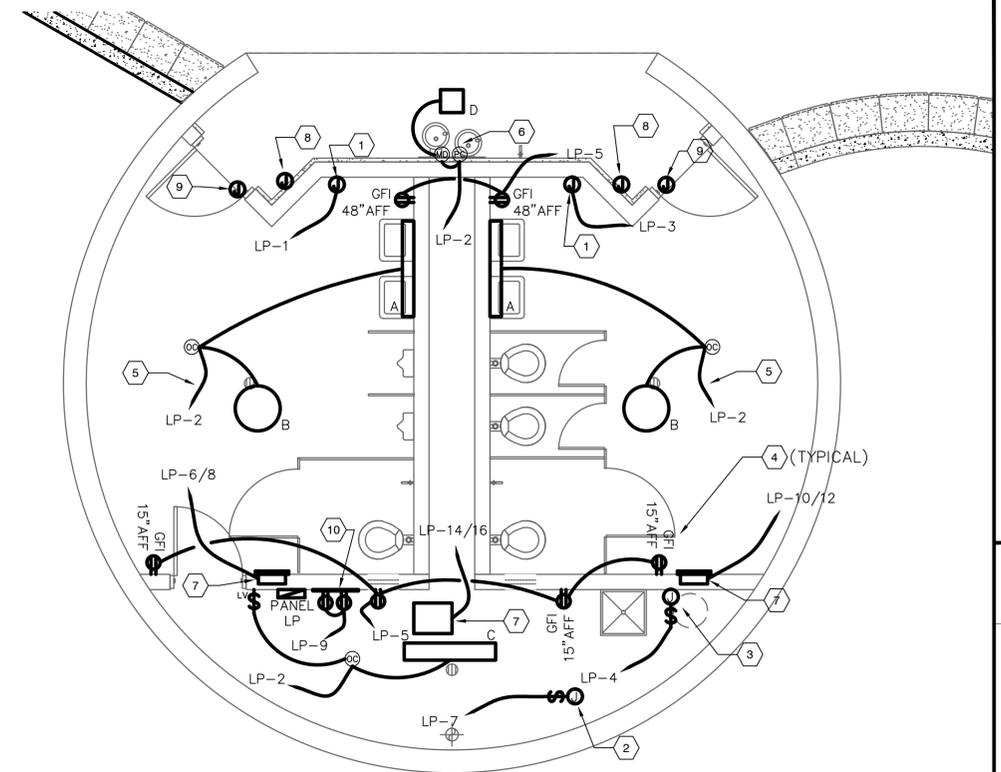
- JUNCTION BOX AND DEDICATED CIRCUIT FOR 120V HAND DRYER. VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS/ EQUIPMENT CUT SHEETS.
- JUNCTION BOX, TOGGLE DISCONNECT SWITCH AND DEDICATED CIRCUIT FOR 120V EXHAUST FAN EF-1. PROVIDE A 12 MONTH, 24 HOUR, ASTRONOMICAL TIMECLOCK FOR FAN CONTROL IN NEMA 1 ENCLOSURE, AS MANUFACTURED BY TORK, INTERMATIC OR EQUAL. MOUNT TIMECLOCK NEXT TO PANEL LP.
- JUNCTION BOX, TOGGLE DISCONNECT SWITCH AND DEDICATED CIRCUIT FOR 120V ELECTRIC WATER HEATER.
- PROVIDE EACH OUTLET WITH A SPRING LOADED COVER WITH A NEOPRENE GASKET.
- WIRE EACH RESTROOM LIGHTING THROUGH THE SWITCH-PACK, CONTROLLED BY THE CEILING MOUNTED OCCUPANCY SENSOR. AHOMC-P-0450-R BY COOPER OR EQUAL. PROVIDE SENSOR WITH MATCHING SWITCH-PACK.
- MOTION DETECTOR WITH INTEGRAL PHOTOCELL. MS180 SERIES BY COOPER OR EQUAL.
- 240V HEATER. SEE MECHANICAL PLANS FOR ADDITIONAL INFO. PROVIDE (2) #10 & (1) #12 GND TO PANEL LP. PROVIDE CIRCUIT BREAKER WITH LOCK-OUT PROVISION.
- JUNCTION BOX AND 3/4" CONDUIT TO SECURITY BACKBOARD FOR CARD READER. VERIFY REQUIREMENTS WITH THE SECURITY SYSTEM VENDOR.
- JUNCTION BOX AND 3/4" CONDUIT TO SECURITY BACKBOARD FOR DOOR STRIKES. VERIFY REQUIREMENTS WITH THE SECURITY SYSTEM VENDOR.
- 3/4"x2"x3" PLYWOOD BACKBOARD AND TWO POWER OUTLETS FOR SECURITY EQUIPMENT BOARD. VERIFY REQUIREMENTS WITH THE SECURITY SYSTEM VENDOR.

LIGHT FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER/MODEL	NOTES
A	VANDAL RESISTANT, CORNER MOUNT FLOURESCENT FIXTURE	LITHONIA VDC-1-32-120-GE810S OR EQUAL	
B	LED FIXTURE INTEGRAL TO SOLA-TUBE DAYLIGHTING MODULE	SEE ARCHITECTURAL SOLA-TUBE SPECIFICATIONS	
C	LED WRAP-AROUND FIXTURE, SURFACE MOUNTED	LITHONIA SB4 LP835 OR EQUAL	
D	LED CANOPY LIGHT, SURFACE MOUNTED	LITHONIA OLWCM 46	

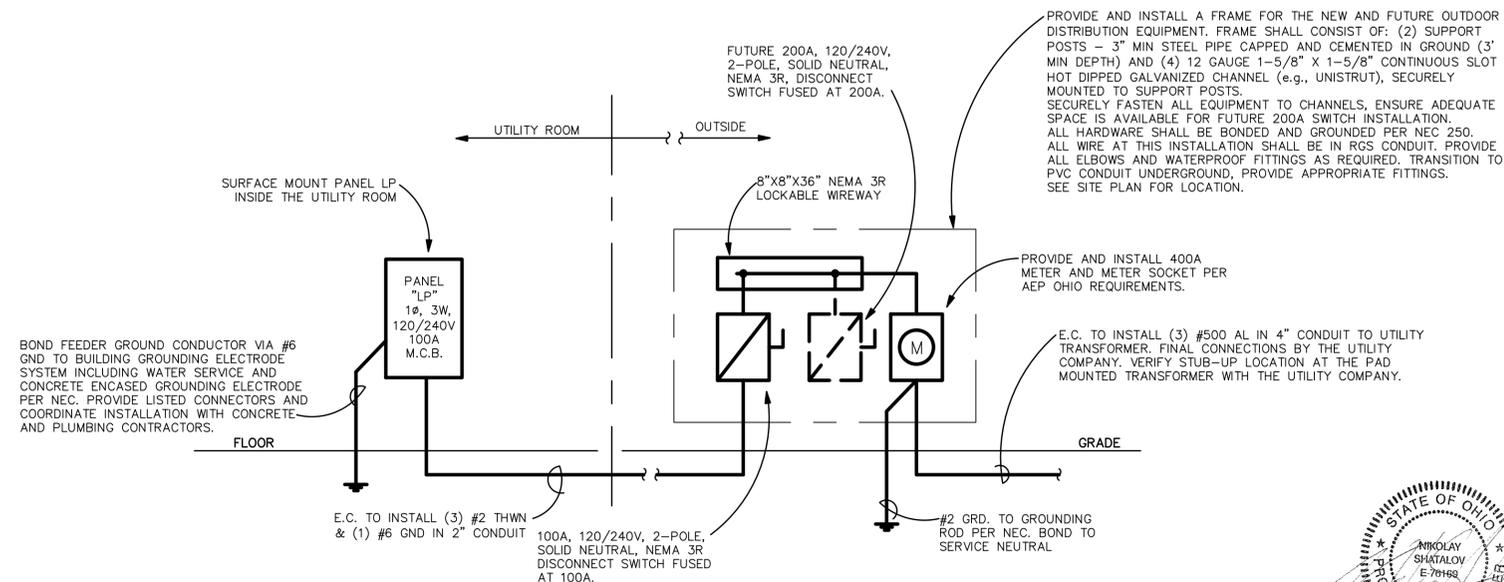
PANELBOARD SCHEDULE

Panelboard	"LP"	Voltage	120/240V	Phase	1			
Panel Type	NQOD	OCPD	100A M.C.B.	Wire	3			
NEMA Type	12	Mounting	SURFACE	Buss	100A			
Ckt. No.	DES	Load Description	Brkr. Size	Phase	Brkr. Size	Load Description	DES	Ckt. No.
1		HAND DRYER M	20/1	A	20/1	LIGHTS		2
3		HAND DRYER F	20/1	B	20/1	WATER HEATER		4
5		RECEPTACLES	20/1	A				6
7		EXHAUST FAN	20/1	B	30/2	EW-1	LO	8
9		SECURITY SYSTEM	20/1	A				10
11		SPARE	20/1	B	30/2	EW-2	LO	12
13		SPARE	20/1	A				14
15		SPARE	20/1	B	20/2	CH-1	LO	16



ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

RESTROOM ELECTRICAL LOAD SUMMARY			
Load Type	Connected VA	NEC Demand VA	
Lighting	281	351	
Receptacles	1080	1080	
HVAC (el heat)	12000	12000	
Misc	5028	5028	
Total	18389	18459	
	76.9A at 240V 1 Phase		



POWER RISER DIAGRAM
NTS



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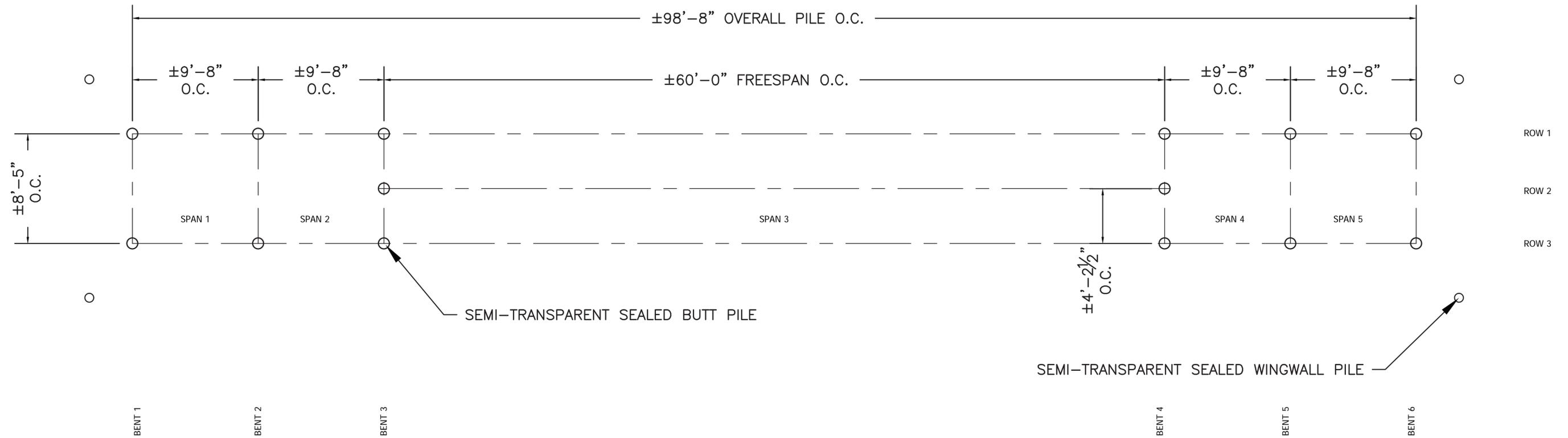
DRAWING SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
AS NOTED	11/11/16	NSS	NSS	NSS

HOLDER WRIGHT PARK
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ELECTRICAL PLAN & DETAILS

PROJECT NO.	SHEET	OF
14626	1	1
E1		

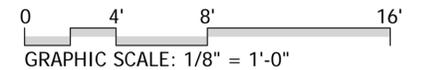
BRIDGE NOTES

- BRIDGE TO BE BUILT BY YORK BRIDGE CONCEPTS OR APPROVED EQUAL, MEETING OR EXCEEDING BELOW EXPECTATIONS, BASED ON THE CONCEPTUAL DRAWINGS PROVIDED. BRIDGE IS TO BE DESIGNED AND BUILT FOLLOWING THE DESIGN INTENT INDICATED BY THE DRAWINGS PROVIDED. CONTACT JOHN YORK @ YORK BRIDGE CONCEPTS: 1-800-226-4178, EXT 127. johnyork@YBC.com.
- AWARDED BRIDGE CONTRACTOR, AT THE TIME OF DESIGN AND ENGINEERING, SHALL PROVIDE SHOP DRAWINGS WITH ENGINEERING CALCULATIONS TO VERIFY STRUCTURAL INTEGRITY, SIZING, AND LOADING CAPACITY OF DESIGN. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO WILL SEAL ALL DRAWINGS AND CALCULATIONS TO SUPPORT SIZING OF STRUCTURAL COMPONENTS AND REQUIRED LOAD HANDLING.
- BRIDGE CONTRACTOR WILL PROVIDE A 3-YEAR STRUCTURAL WARRANTY. BIDDER MUST PROVIDE A WRITTEN COPY WITH MAINTENANCE REQUIREMENTS THAT SUPPORTS THE 3-YEAR WARRANTY WITH BID SUBMITTAL.
- BRIDGE CONTRACTOR WILL CLEAN UP EACH WORK SITE DAILY, PLACING SCRAPS IN A DUMPSTER TO BE FURNISHED AND REMOVED BY THE BRIDGE CONTRACTOR.
- BRIDGE CONTRACTOR TO PROVIDE A SYSTEM TO CATCH ALL SHAVINGS, DUST, AND CUTOFFS BEFORE THEY ENTER THE ENVIRONMENTALLY SENSITIVE AREAS TO EVERY EXTENT POSSIBLE. ANY THAT ENTER THE ENVIRONMENTALLY SENSITIVE AREAS WILL BE CLEANED UP IMMEDIATELY. A PLAN WILL BE SUBMITTED IN WRITING TO THE OWNER.



ALL UTILITIES LOCATED WITHIN 5' OF BRIDGE AREA ARE TO BE HAND-DUG & EXPOSED BY OTHERS PRIOR TO MOBILIZATION.

1 PLAN - PILE LAYOUT
SCALE: 1/8" = 1'-0"



TIMBER PEDESTRIAN BRIDGE

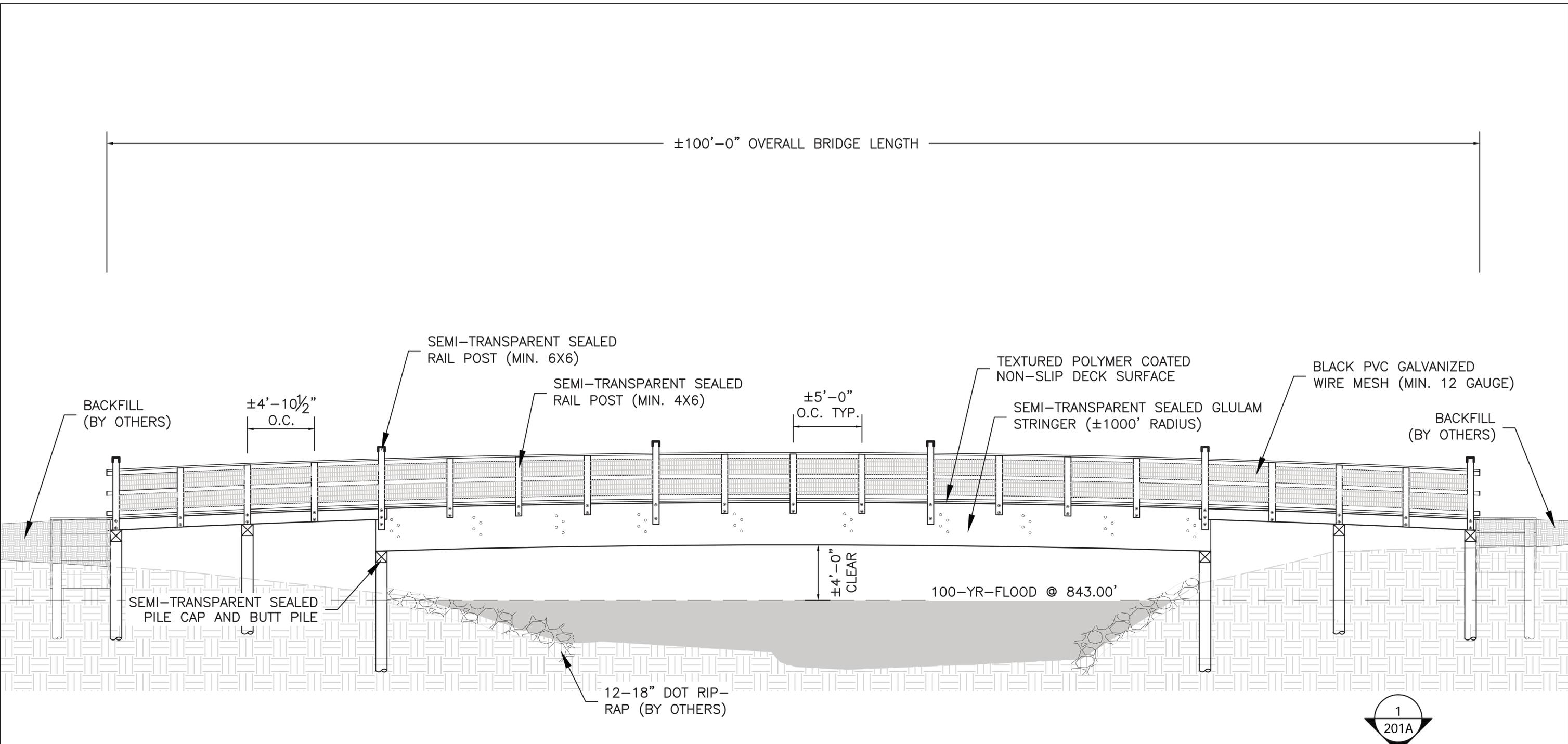
PLAN
PILE LAYOUT

HOLDER-WRIGHT PARK

DESIGNED LOADING
85 PSF LOADING (L/360 DEFLECTION)

DUBLIN, OH

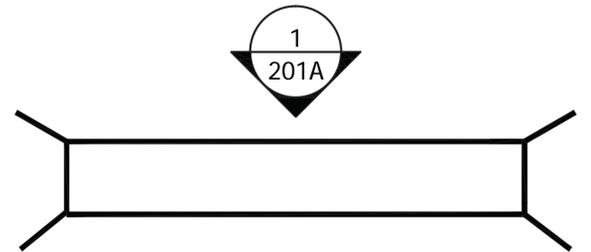
DATE/TIME: February 5, 2016	DRAWN BY: J. WINCHELL	PROJECT NUMBER: 214-211	SHEET NUMBER: B1
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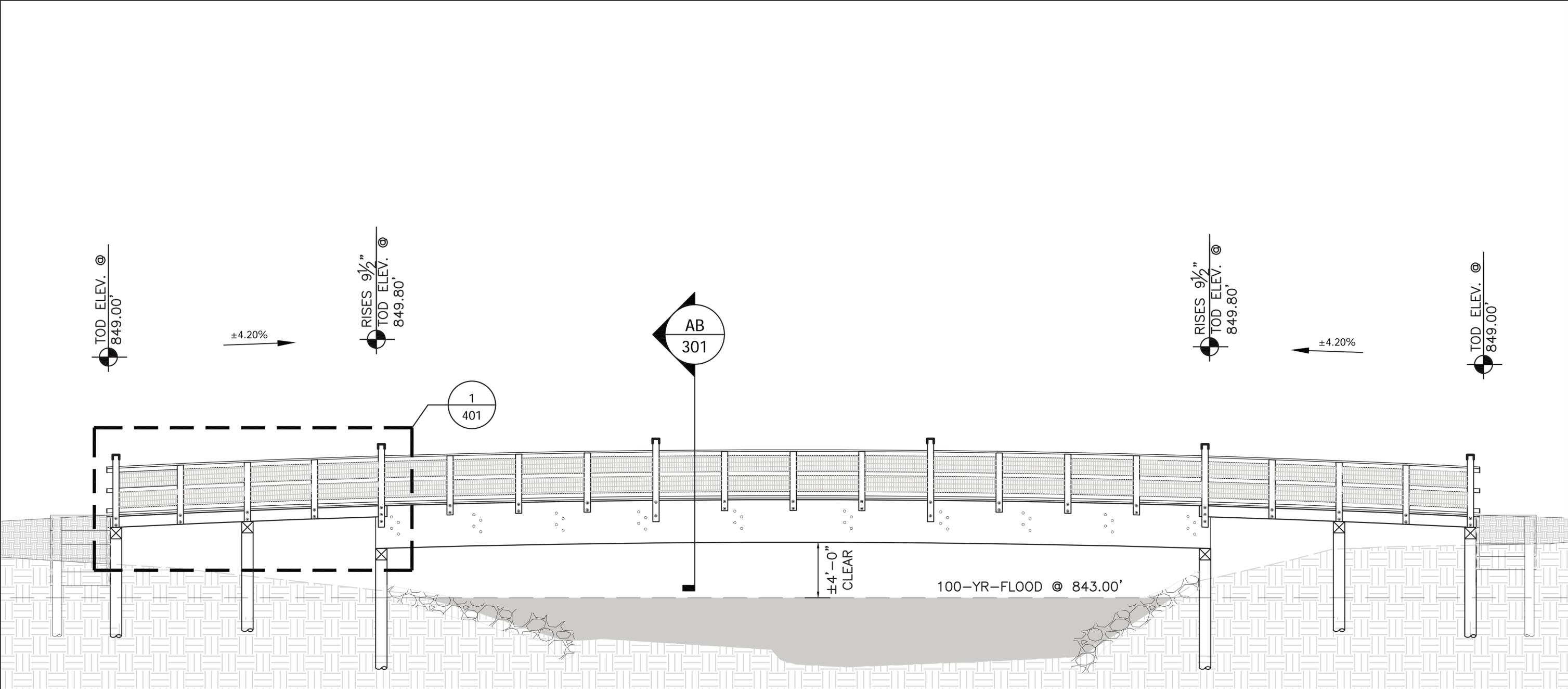
ALL EXISTING GRADE INFORMATION SHOWN IS FROM CT CONSULTANTS. DRAWING DATED MAY 29, 2015.

PILE TO BE DRIVEN UP TO 8' IN THE GROUND OR UNTIL REFUSAL

1 ELEVATION - EXTERIOR
SCALE: 3/16" = 1'-0"



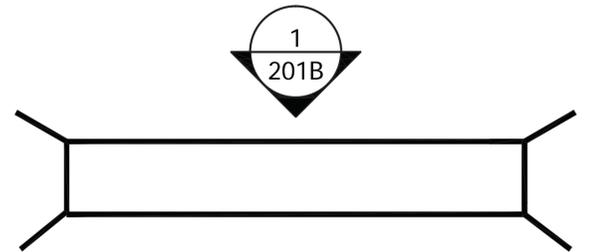
<p>THE PREMIER TIMBER BRIDGE COMPANY</p>	<p>TIMBER PEDESTRIAN BRIDGE</p>		<p>ELEVATION EXTERIOR</p>			
	<p>HOLDER-WRIGHT PARK</p> <p>DUBLIN, OH</p>		<p>DESIGNED LOADING 85 PSF LOADING (L/360 DEFLECTION)</p>			
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PILE TO BE DRIVEN UP TO 8' IN THE GROUND OR UNTIL REFUSAL

1 ELEVATION - EXTERIOR
SCALE: 3/16"=1'-0"



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TIMBER PEDESTRIAN BRIDGE

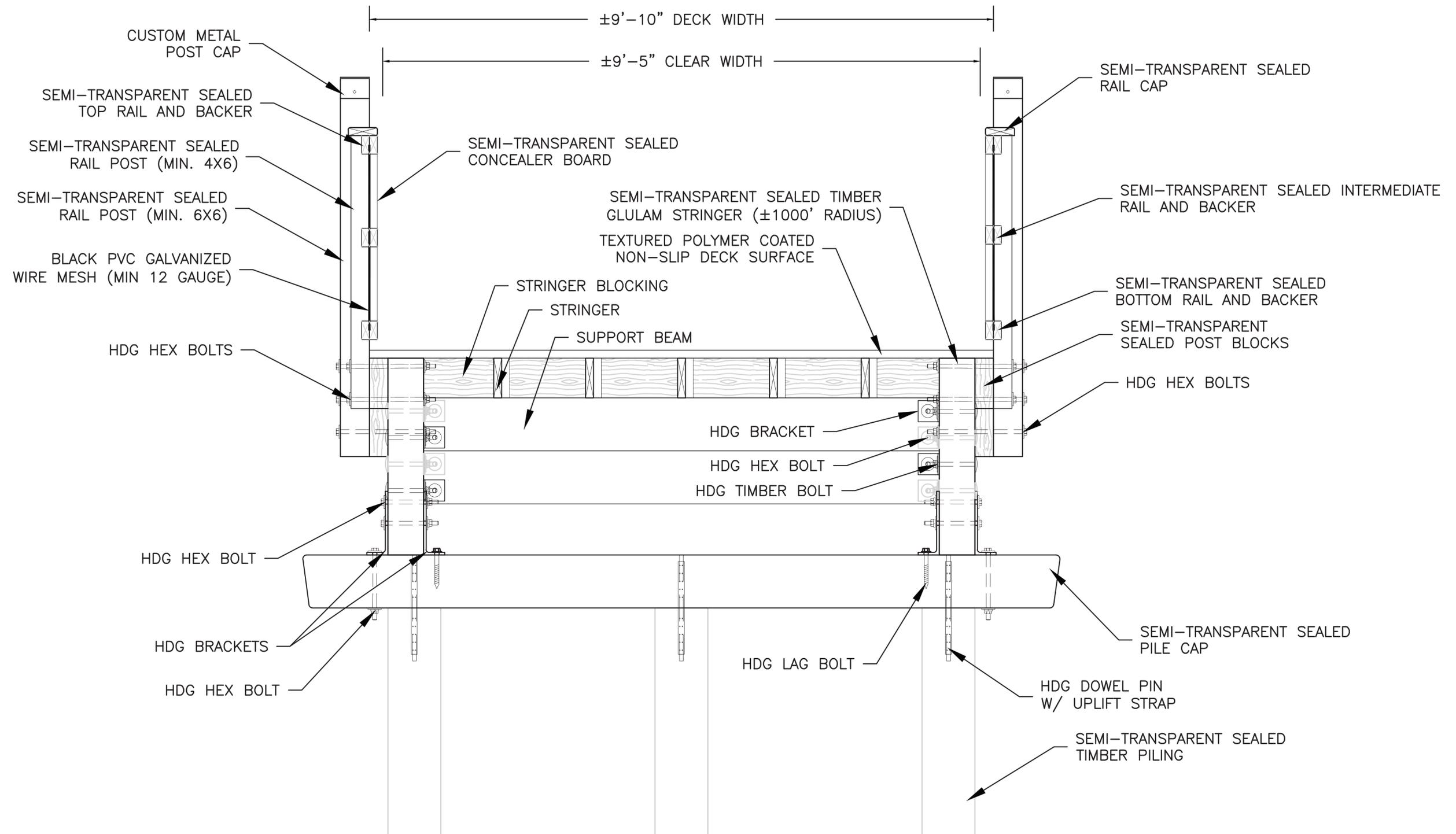
HOLDER-WRIGHT PARK

DUBLIN, OH

ELEVATION
EXTERIOR

DESIGNED LOADING
85 PSF LOADING (L/360 DEFLECTION)

DATE/TIME: February 5, 2016	DRAWN BY: J. WINCHELL	PROJECT NUMBER: 214-211	SHEET NUMBER: B3
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1 SECTION - FREESPAN MATERIALS
SCALE: NTS



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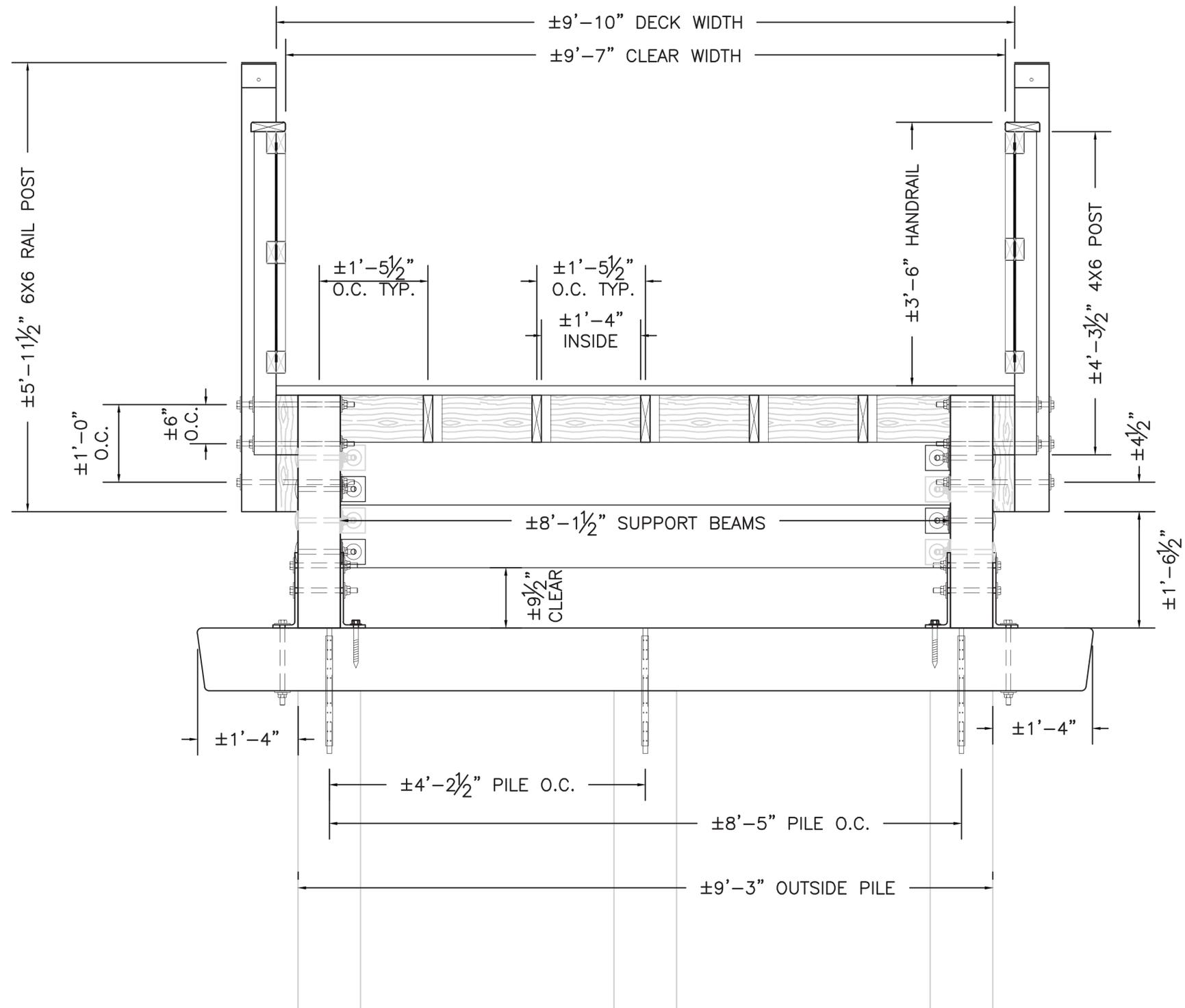
HOLDER-WRIGHT PARK

DUBLIN, OH

SECTION
FREESPAN MATERIALS

DESIGNED LOADING
85 PSF LOADING (L/360 DEFLECTION)

DATE/TIME: February 5, 2016	DRAWN BY: J. WINCHELL	PROJECT NUMBER: 214-211	SHEET NUMBER: B4
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1 SECTION - FREESPAN DIMENSIONS
SCALE: NTS



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TIMBER PEDESTRIAN BRIDGE

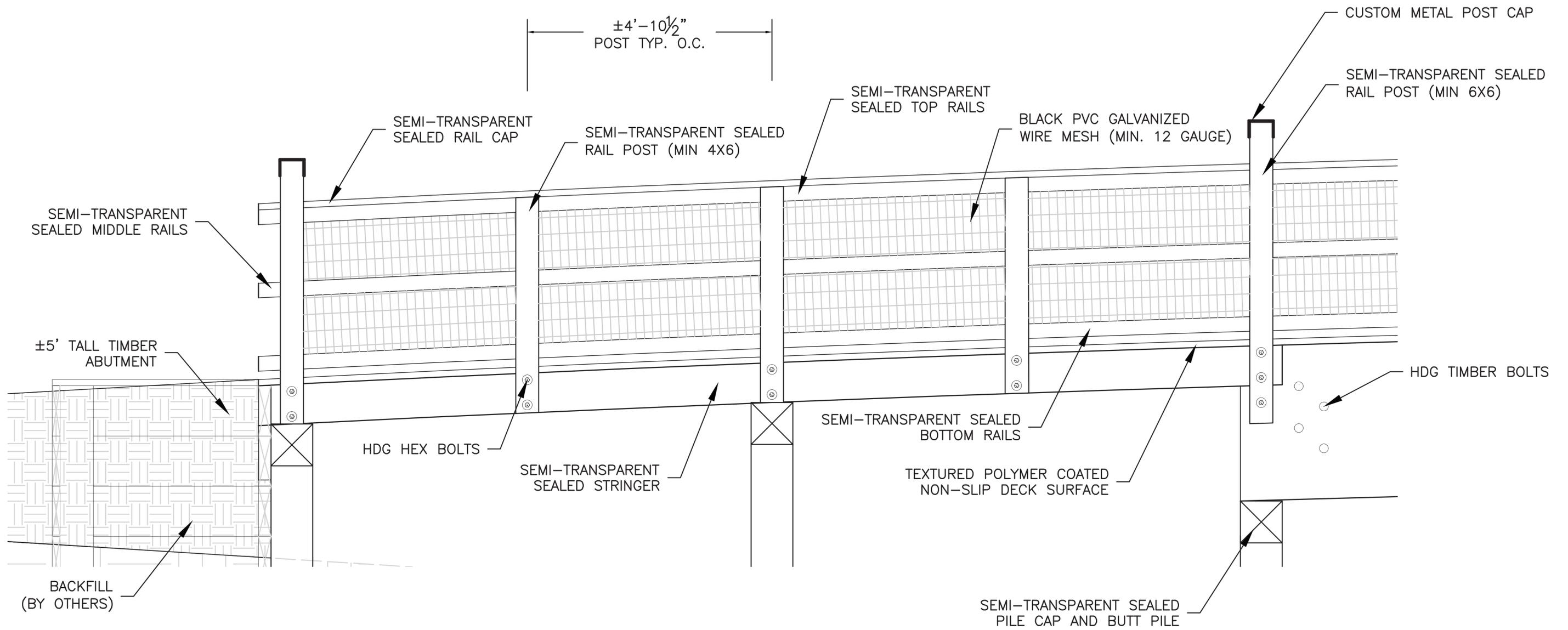
HOLDER-WRIGHT PARK

DUBLIN, OH

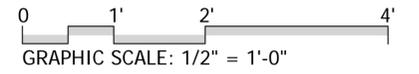
SECTION
FREESPAN DIMENSIONS

DESIGNED LOADING
85 PSF LOADING (L/360 DEFLECTION)

DATE/TIME: February 5, 2016	DRAWN BY: J. WINCHELL	PROJECT NUMBER: 214-211	SHEET NUMBER: B5
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1 RAIL - ENLARGED EXTERIOR ELEVATION
SCALE: 1/2"=1'-0"



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THE PREMIER TIMBER BRIDGE COMPANY

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TIMBER PEDESTRIAN BRIDGE

HOLDER-WRIGHT PARK

DUBLIN, OH

RAIL
ENLARGED EXTERIOR ELEVATION

DESIGNED LOADING
85 PSF LOADING (L/360 DEFLECTION)

DATE/TIME: February 5, 2016	DRAWN BY: J. WINCHELL	PROJECT NUMBER: 214-211	SHEET NUMBER: B6
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