

DEVELOPMENT PLAN  
FOR  
URBAN AIR ADVENTURE PARK  
INDOOR RECREATION CENTER  
7679-7685 PLAIN CITY-DUBLIN RD. (SR161)  
DUBLIN, OHIO 43064  
2017

SURVEY NOTE:

AN ALTA SURVEY PROVIDED BY SITE ENGINEERING INC DATED 3-10-17 WAS USED FOR THE EXISTING SITE LAYOUT, TOPOGRAPHICAL AND BENCHMARK INFORMATION.

UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON EXISTING UTILITY RECORDS.

SITE DATA:

OEPA NPDES GENERAL PERMIT #: OHC000004

OWNER/DEVELOPER: CARMEN MICHAEL VILLOPOTO  
220 LAKE MANOR RD.  
CHAPEL HILL, NC 27516  
CARMEN VILLOPOTO (ONSITE CONTACT)

PLAN DESIGNER: OSBORN ENGINEERING  
990 WEST THIRD AVE. - SUITE 200  
COLUMBUS, OH 43212  
PHONE: 614-556-4272  
EMAIL: BLUNDGREN@OSBORN-ENG.COM

PID NO: 274-012136-00  
ADDRESS: 7679 DUBLIN PLAIN CITY ROAD  
DUBLIN, OHIO 43016

PID NO: 274-001453-00  
ADDRESS: 7685 DUBLIN PLAIN CITY ROAD  
DUBLIN, OHIO 43016

DEVELOPMENT: URBAN AIR - RECREATION CENTER  
SITE GROUND COVER: OPEN FIELD

SITE DRAINS TO: EXISTING STORM INLET  
ADJACENT AREAS: COMMERCIAL, INDUSTRIAL, RESIDENTIAL, FARM LAND

ZONING INFORMATION:

ZONING DISTRICT: ID-2: RESEARCH FLEX DISTRICT 36-11  
PROPOSED USE: RECREATION CENTER

BUILDING HEIGHT: PHASE 1 BUILDING = 34'  
PHASE 2 BUILDING = 34'

GROSS BUILDING AREA: PHASE 1 BUILDING = 20,000 SF  
PHASE 2 BUILDING = 20,000 SF

FRONT BUILDING SETBACK: 50'  
SIDE BUILDING SETBACK: 20'  
REAR BUILDING SETBACK: 25'

FRONT PARKING SETBACK: 30'  
SIDE PARKING SETBACK: 15'  
REAR PARKING SETBACK: 20'

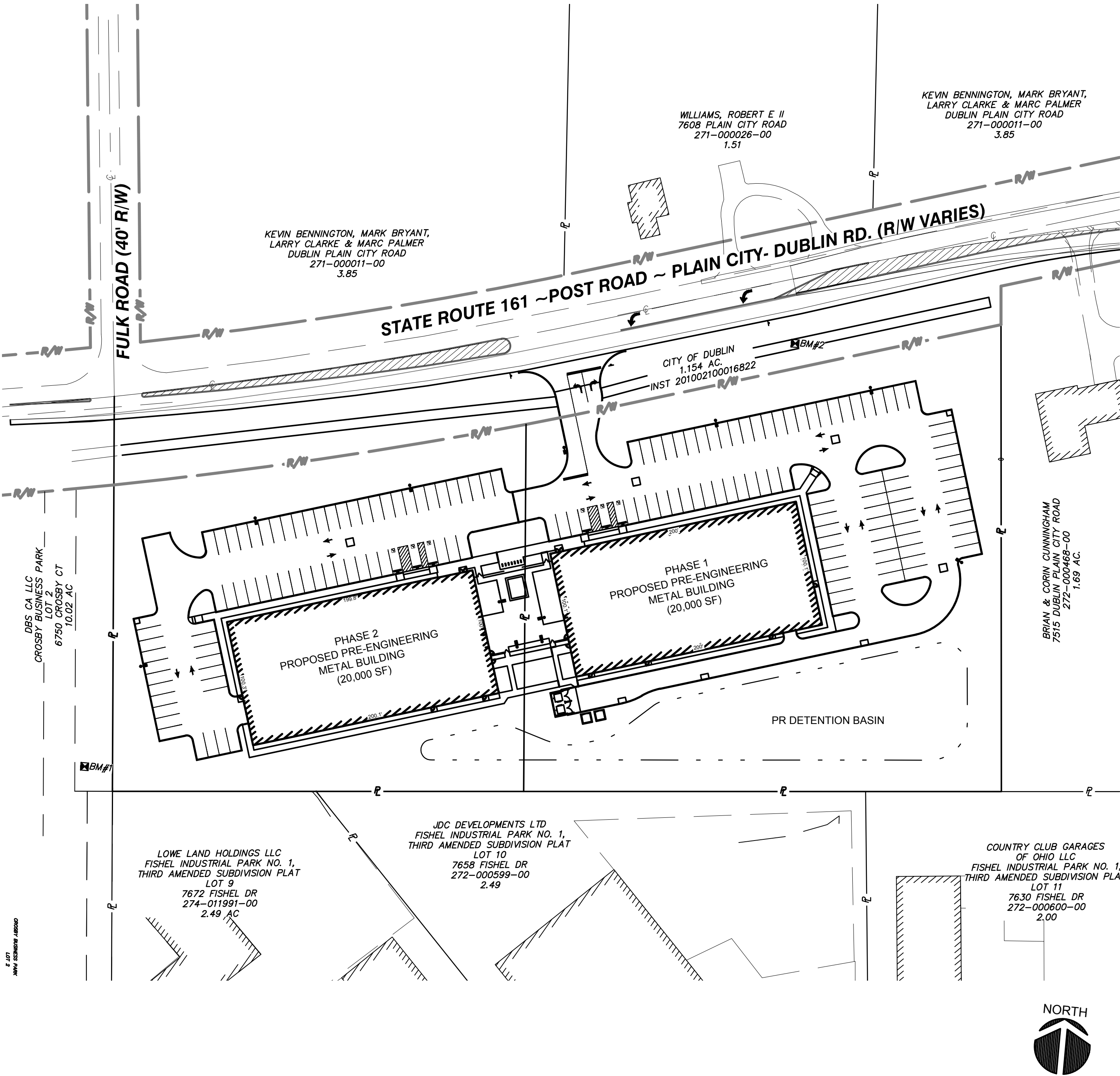
ZONING CALCULATIONS:

- OFFSITE PARKING CALCULATIONS**
  - REQUIRED:  $(20,000 \text{ SF} \div 20,000 \text{ SF}) \times (1 \text{ SPACE} / 250 \text{ SF}) = 160 \text{ SPACES}$
  - PROPOSED: 164 SPACES (INCLUDES 4 STANDARD ADA SPACES AND 2 VAN ACCESSIBLE ADA SPACES)
- BICYCLE PARKING CALCULATIONS**
  - REQUIRED:  $\text{REQUIRED PARKING} \times (1 \text{ BIKE} / 15 \text{ SPACES}) \times (1 \text{ RACK} / 2 \text{ BIKES}) = 160 \text{ SPACES} \times (1 \text{ BIKE} / 15 \text{ SPACES}) \times (1 \text{ RACK} / 2 \text{ BIKES}) = 6 \text{ RACKS}$
  - PROPOSED: 6 RACKS
- LOADING SPACE CALCULATIONS**
  - REQUIRED:
    - 1 SPACE PER 25,000-50,000 GROSS FLOOR AREA.
    - PHASE 1 BUILDING 20,000 SQFT + PHASE 2 BUILDING 20,000 SQFT = 40,000 TOTAL SQFT
  - PROPOSED:
    - 1 LOADING SPACE
- MINIMUM LOT SIZE**
  - REQUIRED: 2 ACRES
  - EXISTING: 4.886 ACRES
  - PROPOSED: PROPERTY SUBDIVIDED  
EAST PROPERTY (PHASE 1) = 2.888 AC.  
WEST PROPERTY (PHASE 2) = 2.000 AC.
- MAXIMUM LOT COVERAGE**
  - REQUIRED: 75% MAX
  - PROPOSED: 54.6%

STANDARD DRAWINGS:

THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF:

CITY OF DUBLIN	CITY OF COLUMBUS
RD-07	L-9002B
RD-11	L-9002G
ST-05	L-6317A
WA-01	L-6317B



UNDERGROUND UTILITIES  
2 WORKING DAYS  
BEFORE YOU DIG  
CALL 800-362-2764 (TOLL FREE)  
OHIO UTILITIES  
PROTECTION SERVICE  
NON-MEMBER  
MUST BE CALLED DIRECTLY



VICINITY MAP  
NO SCALE



BENCHMARK:

SOURCE BENCHMARK ~ ELEVATION OBTAINED USING TRIMBLE RTK GPS EQUIPMENT AND OHIO DEPARTMENT OF TRANSPORTATION CORS/VRS NETWORK, NAVD 1988.

BENCHMARK #1 ~ TOP OF CASTING ON AEP MANHOLE (ON LETTER "O" IN WORD "VOLTAGE" ON LID), ALONG THE SOUTH SIDE OF S.R. 161, 164' WEST OF THE EAST PROPERTY LINE.  
N = 768064.39 E=1774349.85 ELEV=942.56

BENCHMARK #2 ~ TOP OF CASTING ON SANITARY MANHOLE NEAR THE SOUTHWEST CORNER OF SURVEYED TRACT.  
N=767678.52 E=1773816.26 ELEV=943.82

FLOOD DESIGNATION

ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP #39049C0127K, DATED JUNE 17, 2008 FOR COMMUNITY NUMBER 390167, THIS PROPERTY IS IN ZONE X. AREAS DETERMINED TO BE OUTSIDE 500 YEAR FLOOD PLAIN.

INDEX OF SHEETS

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WATER SERVICE PLANS


- |     |              |
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THE CITY OF DUBLIN SIGNATURES ON THIS PLAN SIGNIFIES ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED IMPROVEMENTS. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND CERTIFIED THESE PLANS.

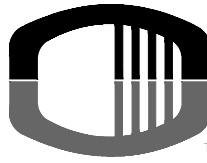
CITY OF DUBLIN

CITY ENGINEER, CITY OF DUBLIN, OHIO

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



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990 West Third Avenue | Columbus, OH 43212

URBAN AIR

STATUS:

REVISION:

1	10-03-17	ADDENDUM 1
2	10-12-17	ADDENDUM 2
3	10-23-17	ADDENDUM 3

PROJECT NUMBER:

2016.223

DRAWN BY:

SF

DATE:

23 OCTOBER 2017

SHEET NAME:

TITLE SHEET

SHEET NUMBER:

C1.0



GENERAL NOTES

- CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION SHALL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- 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 ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 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.
- FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, 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.
- 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.
- 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 RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
- NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- 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.
- DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- 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 OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 636. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
- THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:  
CONSTRUCTION INSPECTION DIVISION  
CITY OF COLUMBUS  
1800 EAST 17TH AVENUE  
COLUMBUS, OHIO 43219

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:  
DIVISION OF ENGINEERING  
CITY OF DUBLIN  
5800 SHIER RINGS ROAD  
DUBLIN, OHIO 43016
- ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
- 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 – INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) 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.
- 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 COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.
- 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.
- 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 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD 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.
- 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.
- ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
- ALL INLETS SHALL BE CHANNELIZED.
- 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.
- 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.
- 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.

UTILITIES

- THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

AEP  
COLUMBIA GAS  
AT&T
- THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), 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.
- 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.
- 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.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
- 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

- TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
- 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 DIFFERENTLY 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 PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
- IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
- STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- 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

- 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 ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT 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 SYSTEMS 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.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
- 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.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- 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)

- 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, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

- CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
- 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.
- 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.
- 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.
- FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- 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.
- VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- 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.
- ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, 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.
- 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 SERVICE IS INTENDED.
- 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.
- 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 VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- 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.
- 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

  - KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
  - LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION
  - OR EQUAL AS APPROVED BY THE CITY ENGINEER

B. RUBBER GASKET COMPRESSION

  - PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
  - DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
  - LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
  - 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

- ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
- 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 OR LARGER 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.
- ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.
- 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.
- 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) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER 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.
- THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.
- NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER.
- 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.
- ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
- ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
- THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
- WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY 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.
- WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
- CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
- 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.
- ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
- TWO 3/4 INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWER

- 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.
- 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 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.
- 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.
- 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.
- HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
- 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."
- STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MAIL DELIVERY

- 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 APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- 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


- 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.
- 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 SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.



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STATUS:

REVISION:		
1	10-03-17	ADDENDUM 1
2	10-12-17	ADDENDUM 2
3	10-23-17	ADDENDUM 3

PROJECT NUMBER:

2016.223

DRAWN BY:

SF

DATE:

23 OCTOBER 2017

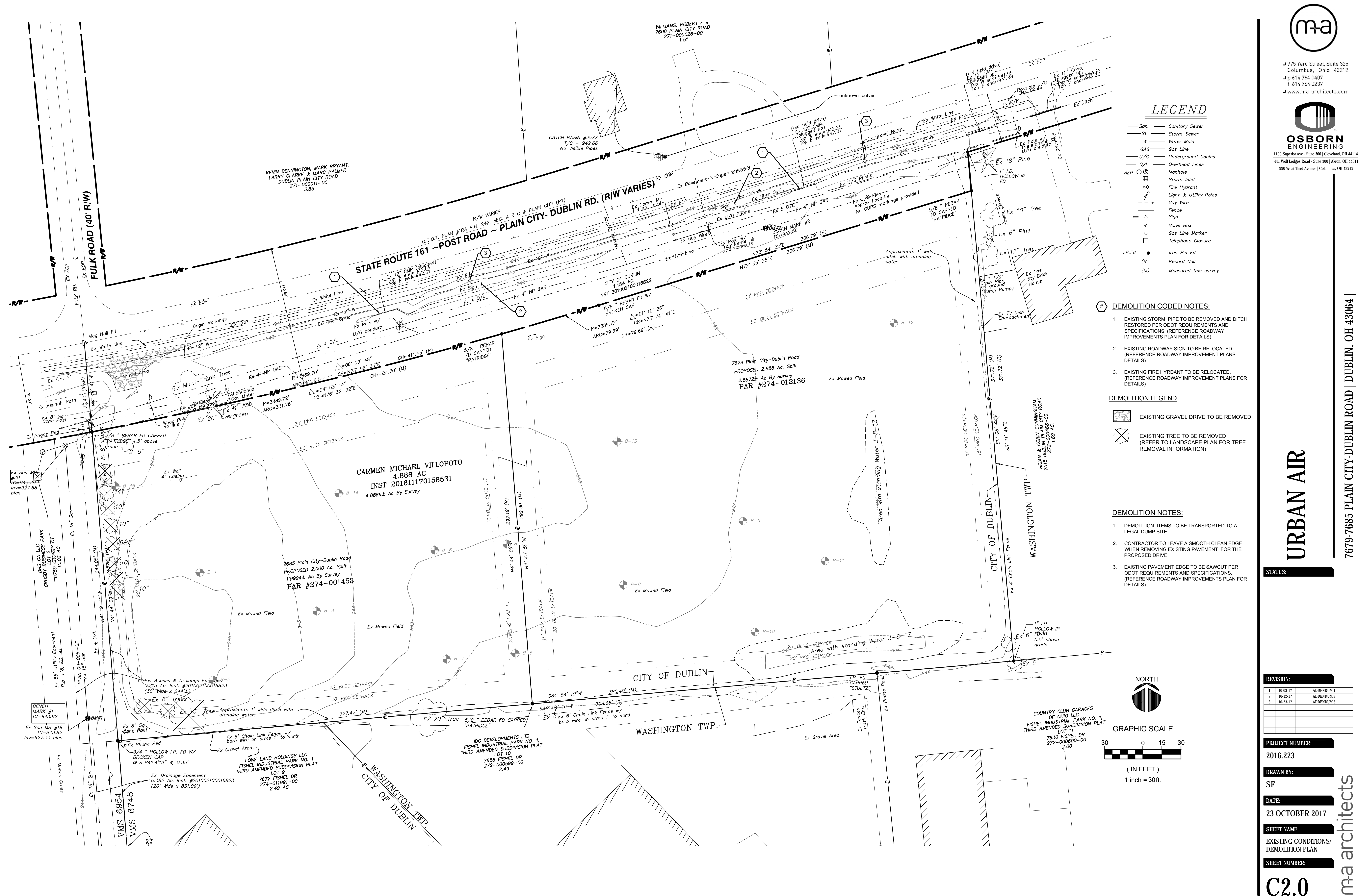
SHEET NAME:

GENERAL NOTES

SHEET NUMBER:

C1.1

GENERAL NOTES:  
CURRENT EDITION OF DUBLIN NOTES ARE LISTED.  
NOT APPLICABLE HAS BEE ADDED TO NOTES THAT  
DO NOT APPLY TO THIS PROJECT.



LEGEND

- San. Sanitary Sewer
- St. Storm Sewer
- W. Water Main
- GAS Gas Line
- U/G Underground Cables
- O/L Overhead Lines
- AEP Manhole
- Storm Inlet
- Fire Hydrant
- Light & Utility Poles
- Guy Wire
- Fence
- Sign
- Valve Box
- Gas Line Marker
- Telephone Closure
- I.P.Fd. Iron Pin Fd
- (R) Record Call
- (M) Measured this survey

# DEMOLITION CODED NOTES:

- EXISTING STORM PIPE TO BE REMOVED AND DITCH RESTORED PER ODOT REQUIREMENTS AND SPECIFICATIONS. (REFERENCE ROADWAY IMPROVEMENTS PLAN FOR DETAILS)
- EXISTING ROADWAY SIGN TO BE RELOCATED. (REFERENCE ROADWAY IMPROVEMENTS PLANS DETAILS)
- EXISTING FIRE HYDRANT TO BE RELOCATED. (REFERENCE ROADWAY IMPROVEMENT PLANS FOR DETAILS)

DEMOLITION LEGEND

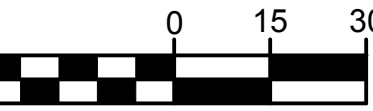
- EXISTING GRAVEL DRIVE TO BE REMOVED
- EXISTING TREE TO BE REMOVED (REFER TO LANDSCAPE PLAN FOR TREE REMOVAL INFORMATION)

DEMOLITION NOTES:

- DEMOLITION ITEMS TO BE TRANSPORTED TO A LEGAL DUMP SITE.
- CONTRACTOR TO LEAVE A SMOOTH CLEAN EDGE WHEN REMOVING EXISTING PAVEMENT FOR THE PROPOSED DRIVE.
- EXISTING PAVEMENT EDGE TO BE SAWCUT PER ODOT REQUIREMENTS AND SPECIFICATIONS. (REFERENCE ROADWAY IMPROVEMENTS PLAN FOR DETAILS)

NORTH

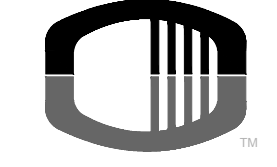
GRAPHIC SCALE



( IN FEET )  
1 inch = 30ft.



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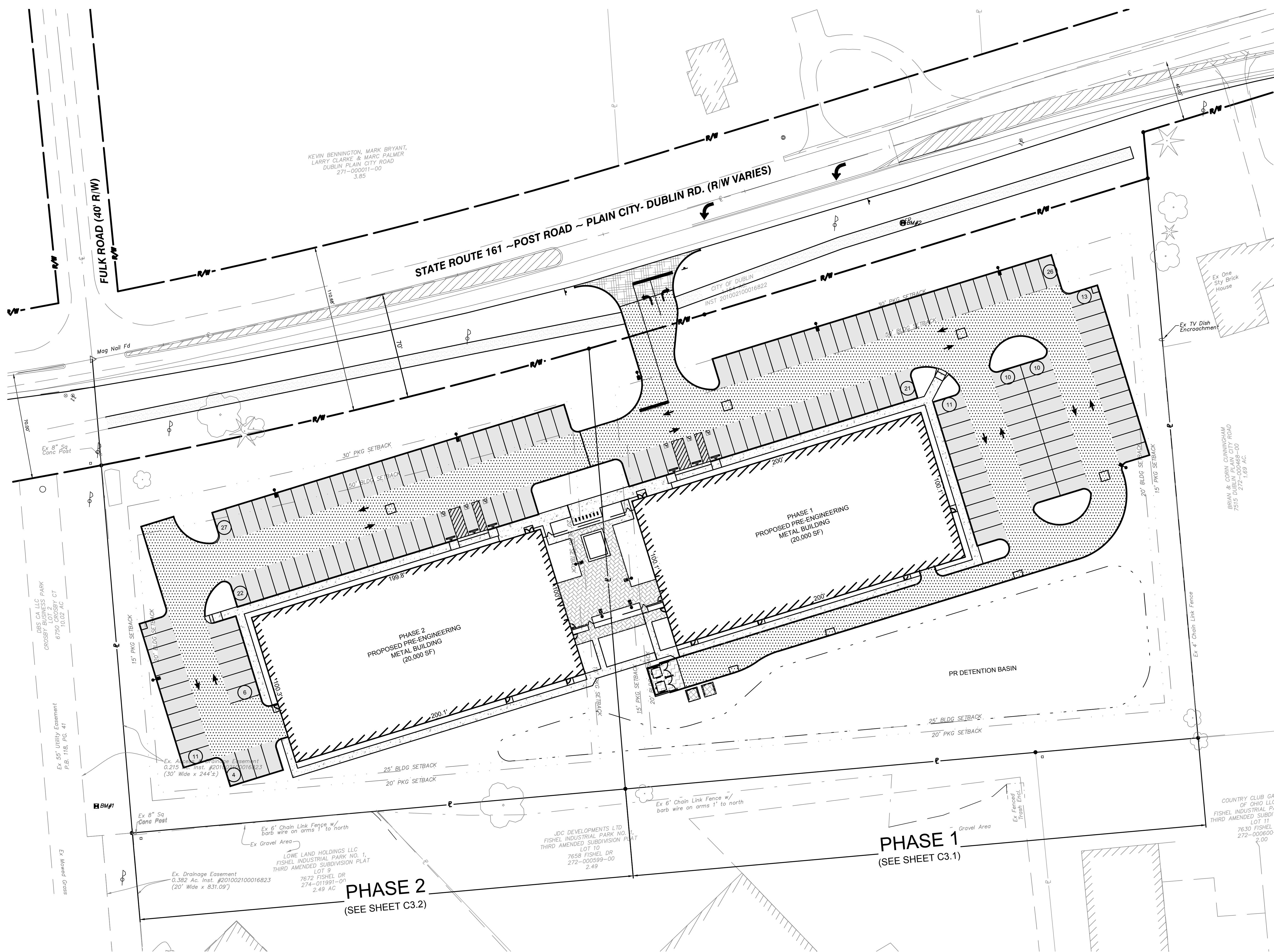
EXISTING CONDITIONS/  
DEMOLITION PLAN

SHEET NUMBER:

C2.0

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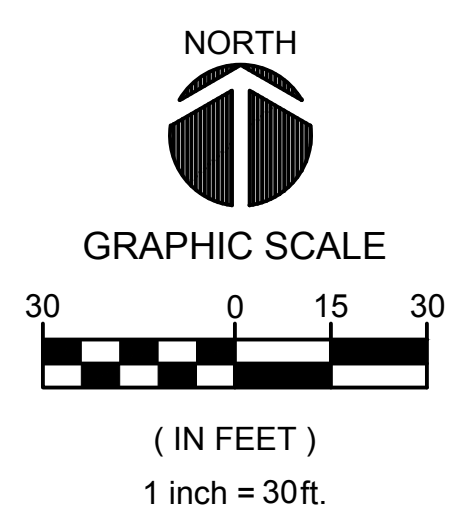




- SITE NOTES**
- DIMENSIONS ARE FROM FACE OF CURB, UNLESS OTHERWISE NOTED.
  - UNDIMENSIONED RADIIUSES TO BE 5'.
  - EXISTING PAVEMENT GRADES TO MATCH (FLUSH) WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
  - PAVEMENT JOINT WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT TO BE SEALED WITH HOT APPLIED JOINT SEALER.
  - ALL PROPOSED PAVEMENT MARKINGS TO BE 4" IN WIDTH AND WHITE IN COLOR, UNLESS OTHERWISE NOTED.
  - REFERENCE ARCHITECTURAL PLANS FOR BUILDING IMPROVEMENTS AND DUMPSTER/TRANSFORMER ENCLOSURE DETAILS.
  - REFERENCE ELECTRICAL PLANS FOR SITE LIGHTING DETAILS.
  - REFERENCE SURVEY LEGEND ON SHEET C2.0.

- HATCHING LEGEND**
- LIGHT DUTY PAVEMENT (PARKING STALLS)
  - HEAVY DUTY PAVEMENT (PARKING AISLES)
  - CONCRETE SIDEWALK
  - HEAVY DUTY CONCRETE (DUMPSTER PAD)
  - HEAVY DUTY CONCRETE (TRANSFORMER PAD)
  - CONCRETE DRIVE APRON
  - PAVER AREA

- SITE LEGEND**
- DIRECTIONAL ARROW
  - TURN ARROW
  - STOP BAR
  - LIGHTING
  - DUMPSTER ENCLOSURE
  - ADA ACCESS
  - ADA MARKING (SEE DETAIL SHEET C-501)
  - SIGN
  - PARKING COUNT



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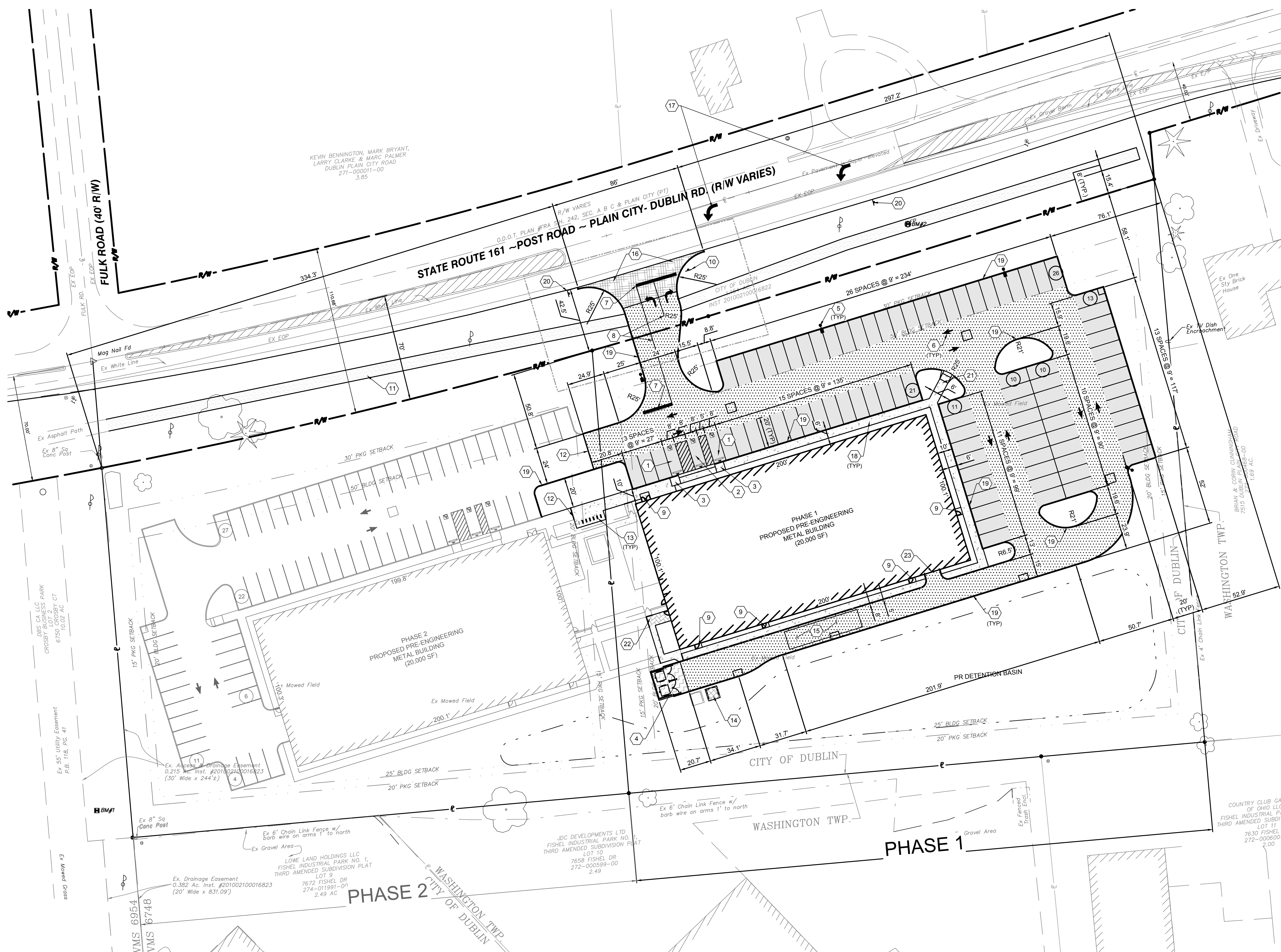
OVERALL SITE LAYOUT PLAN

SHEET NUMBER:

C3.0

ma architects





SITE STATISTICS

TOTAL SITE AREA: 2.88 AC

PARKING SPACES: 91 TOTAL (INCLUDES 2 STANDARD ADA SPACES AND 1 VAN ACCESSIBLE ADA SPACES)

SITE NOTES

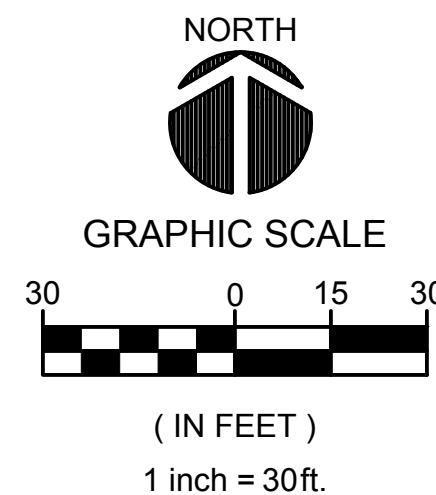
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- EXISTING PAVEMENT GRADES TO MATCH (FLUSH) WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- PAVEMENT JOINT WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT TO BE SEALED WITH HOT APPLIED JOINT SEALER.
- ALL PROPOSED PAVEMENT MARKINGS TO BE 4" IN WIDTH AND WHITE IN COLOR, UNLESS OTHERWISE NOTED.
- REFERENCE ARCHITECTURAL PLANS FOR BUILDING IMPROVEMENTS AND DUMPSTER/TRANSFORMER ENCLOSURE DETAILS.
- REFERENCE ELECTRICAL PLANS FOR SITE LIGHTING DETAILS.
- REFERENCE SURVEY LEGEND ON SHEET C2.0.
- REFERENCE SITE LEGEND ON SHEET C3.0

HATCHING LEGEND

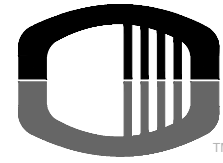
- LIGHT DUTY PAVEMENT (PARKING STALLS)
- HEAVY DUTY PAVEMENT (PARKING AISLES)
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE (DUMPSTER PAD)
- HEAVY DUTY CONCRETE (TRANSFORMER PAD)
- CONCRETE DRIVE APRON
- ASPHALT BIKE PATH PER CITY OF DUBLIN REQUIREMENTS
- PAVER AREA
- DETAILED SECTION

# SITE LAYOUT PLAN CODED NOTES:

- STANDARD ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE DETAILS SHEET C3.1)
- VAN ACCESSIBLE ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE DETAILS SHEET C5.1)
- ADA RAMP
- ENCLOSED DUMPSTER (REFERENCE ARCHITECTURAL PLANS FOR DETAIL)
- SITE LIGHTING (SEE LIGHTING PLANS FOR DETAIL)
- PAVEMENT ARROW
- PAVEMENT STOP BAR
- CHANNELING PAVEMENT MARKING
- FROST STOOP
- STOP SIGN (R1-1) PER OMUTCD
- PROPOSED 8' PUBLIC BIKE PATH PER CITY OF DUBLIN STANDARD DRAWING RD-06.
- PHASE LIMITS (SEE SHEET C3.2 FOR PHASE 2 SITE LAYOUT PLAN)
- BIKE RACK (6 TOTAL)
- 8'x8' TRANSFORMER PAD
- 12'W X 50'L LOADING ZONE
- DRIVEWAY (REFERENCE DRIVEWAY PLAN AND PROFILE C6.0)
- LEFT TURN LANE ADDITION (REFERENCE ROAD IMPROVEMENT PLANS FOR DETAILS)
- CONCRETE WALK
- CONCRETE CURB
- RELOCATED ROADWAY SIGNS (REFERENCE ROAD IMPROVEMENT PLANS FOR DETAILS)
- CURB RAMP (SEE DETAIL SHEET C5.1)
- COURTYARD AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION)
- OVERHEAD DOOR (SEE ARCHITECTURAL PLANS FOR DETAILS)



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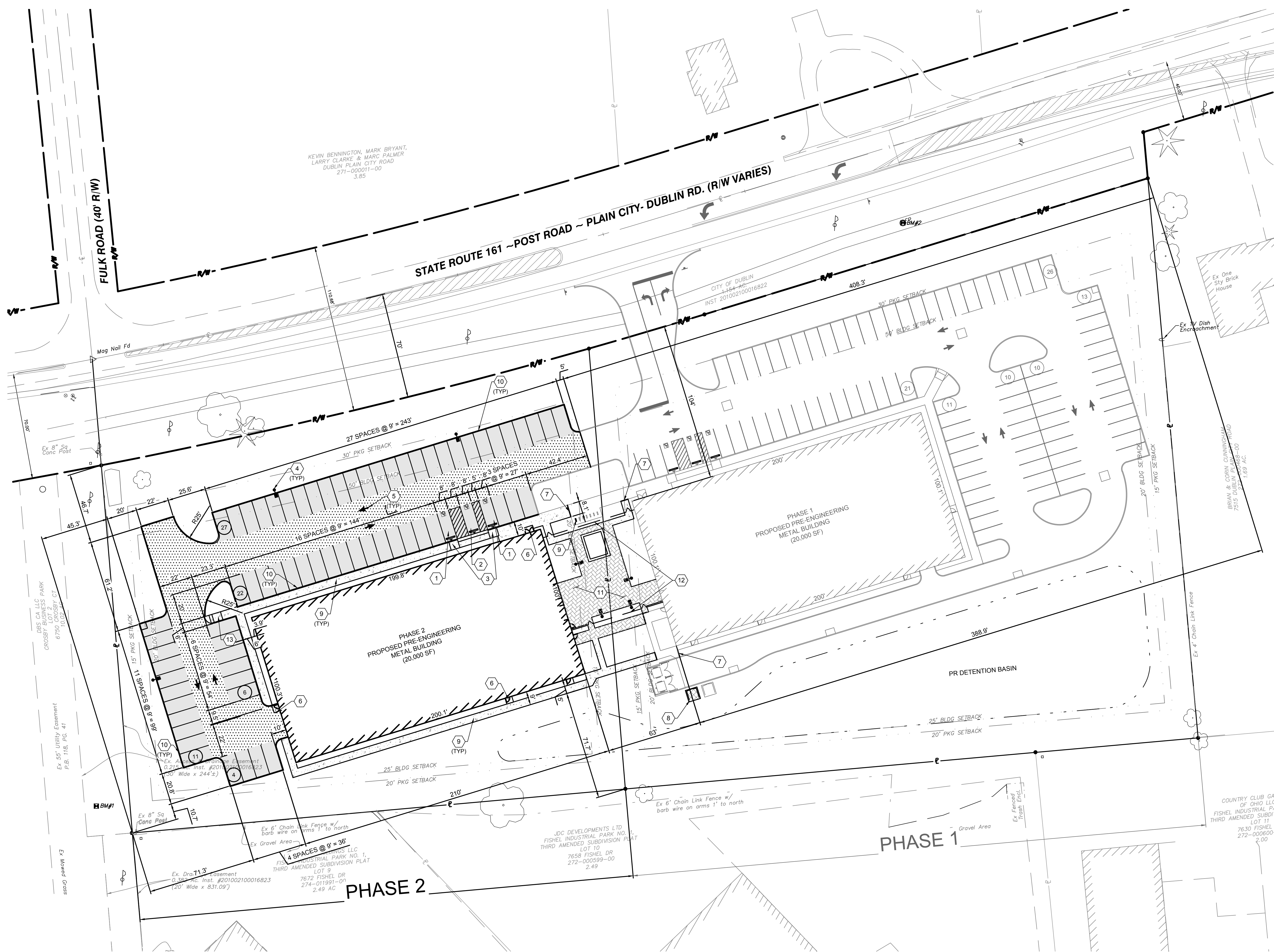
PHASE 1  
SITE LAYOUT PLAN

SHEET NUMBER:

C3.1

ma architects





SITE STATISTICS

TOTAL SITE AREA: 2.00 AC

PARKING SPACES: 70 TOTAL (INCLUDES 2 STANDARD ADA SPACES AND 1 VAN ACCESSIBLE ADA SPACES)

SITE NOTES

- DIMENSIONS ARE FROM FACE OF CURB, UNLESS OTHERWISE NOTED.
- UNDIMENSIONED RADII TO BE 5'.
- EXISTING PAVEMENT GRADES TO MATCH (FLUSH) WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- PAVEMENT JOINT WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT TO BE SEALED WITH HOT APPLIED JOINT SEALER.
- ALL PROPOSED PAVEMENT MARKINGS TO BE 4" IN WIDTH AND WHITE IN COLOR, UNLESS OTHERWISE NOTED.
- REFERENCE ARCHITECTURAL PLANS FOR BUILDING IMPROVEMENTS AND DUMPSTER/TRANSFORMER ENCLOSURE DETAILS.
- REFERENCE ELECTRICAL PLANS FOR SITE LIGHTING DETAILS.
- REFERENCE SURVEY LEGEND ON SHEET C2.0.
- REFERENCE SITE LEGEND ON SHEET C3.0.

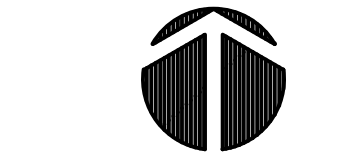
HATCHING LEGEND

- LIGHT DUTY PAVEMENT (PARKING STALLS)
- HEAVY DUTY PAVEMENT (PARKING AISLES)
- CONCRETE SIDEWALK
- HEAVY DUTY CONCRETE (TRANSFORMER PAD)
- PAVER AREA

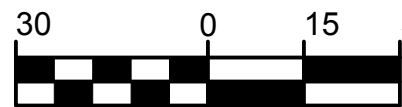
# SITE LAYOUT PLAN CODED NOTES:

- STANDARD ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE DETAILS SHEET C5.1)
- VAN ACCESSIBLE ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE DETAILS SHEET C5.1)
- ADA RAMP
- SITE LIGHTING (SEE LIGHTING PLANS FOR DETAIL)
- PAVEMENT ARROW
- FROST STOOP
- PHASE LIMITS (SEE SHEET C3.1 FOR PHASE 1 SITE LAYOUT PLAN)
- 8'X8' TRANSFORMER PAD
- CONCRETE WALK
- CONCRETE CURB
- COURTYARD AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION)
- FENCE (REFERENCE ARCHITECTURAL AND LANDSCAPE PLANS FOR DETAIL)
- CURB RAMP (SEE DETAIL SHEET C5.1)

NORTH



GRAPHIC SCALE



( IN FEET )

1 inch = 30ft.



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URBAN AIR

STATUS:

REVISION:

1	10-03-17	ADDENDUM 1
2	10-12-17	ADDENDUM 2
3	10-23-17	ADDENDUM 3

PROJECT NUMBER:

2016.223

DRAWN BY:

SF

DATE:

23 OCTOBER 2017

SHEET NAME:

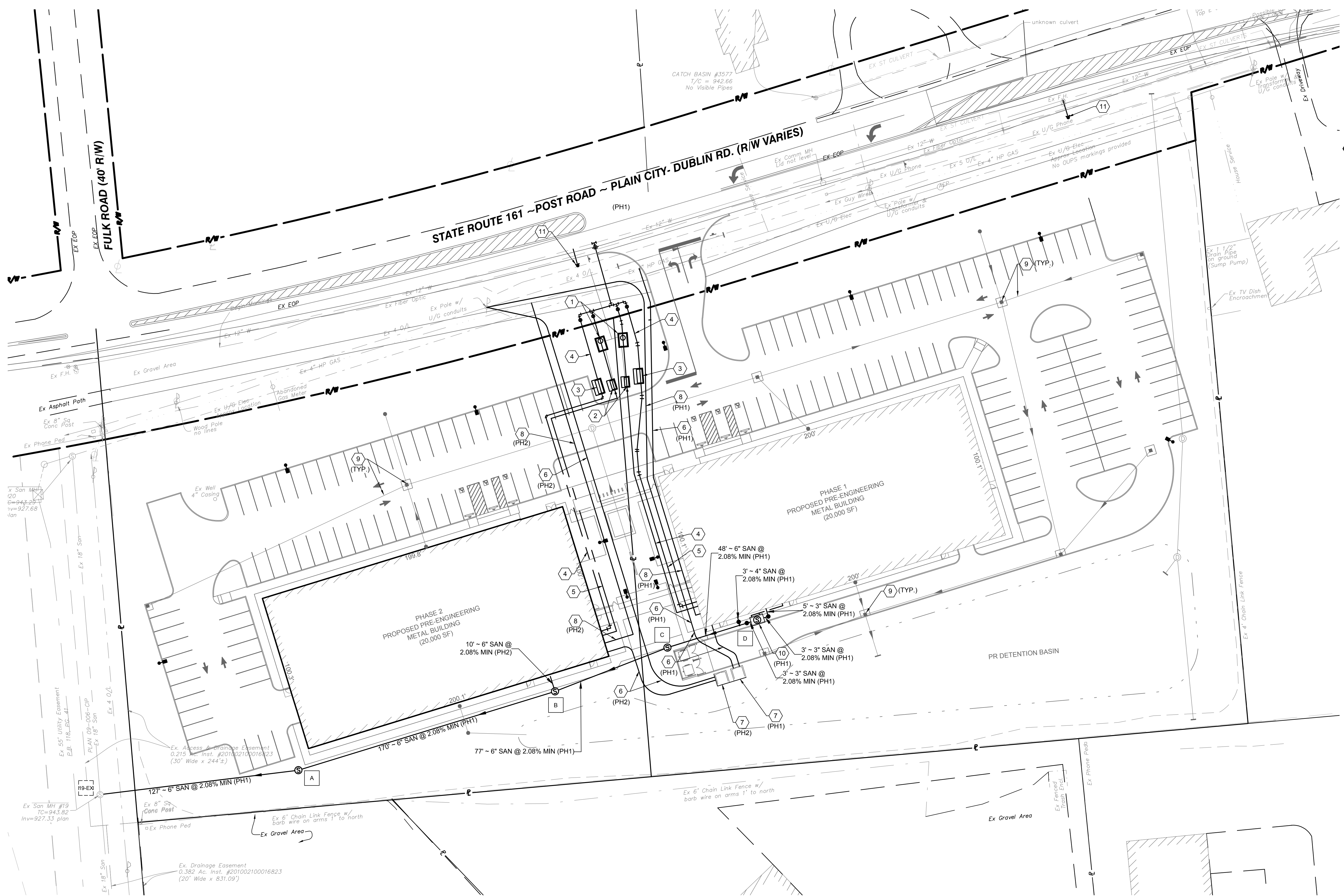
PHASE 2  
SITE LAYOUT PLAN

SHEET NUMBER:

C3.2

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xx SANITARY SEWER STRUCTURE TABLE					
ID NO	DESCRIPTION	NORTHING	EASTING	RIM	INVERT
19-EX	EX SAN MH	767678.52	1773816.26	943.93	6" E INV. 936.13 18" N INV. 927.33 18" S INV. 927.33
A	PR SAN MH	767693.99	1773942.12	948.23	6" W INV. 938.89 6" E INV. 938.89
B	PR SAN MH	767744.02	1774105.04	948.23	6" W INV. 942.35 6" E INV. 942.35 6" N INV. 942.35
C	PR SAN MH **	767771.81	1774176.47	948.74	6" W INV. 944.04 6" E INV. 944.03
D	PR GREASE INTERCEPTOR (REFER TO PLUMBING PLAN FOR DETAIL) **	767789.42	1774233.47	948.37	3" E INV. 945.26 3" W INV. 945.10

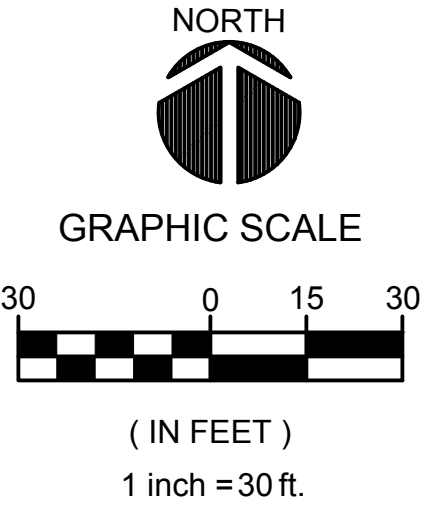
★ = EXISTING INVERT PROVIDED PER SURVEY. CONTRACTOR TO FIELD VERIFY BEFORE CONSTRUCTION  
★★ = MANHOLE COVER TO BE WATERTIGHT LID

ABBREVIATION LEGEND	
PR	PROPOSED
EX	EXISTING
R/W	RIGHT OF WAY
P	PROPERTY LINE
BLDG	BUILDING
SF	SQUARE FOOT
FFE	FINISH FLOOR ELEVATION
BM	BENCHMARK
SAN	SANITARY
MH	MANHOLE
CB	CATCH BASIN
MIN	MINIMUM
(PH1)	PHASE 1
(PH2)	PHASE 2

- # UTILITY PLAN CODED NOTES:
- METER VAULT FOR DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
  - ABOVE GROUND HOT BOX WITH DOMESTIC SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
  - ABOVE GROUND HOT BOX WITH FIRE SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
  - PROPOSED 6" FIRE SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
  - PROPOSED 3" DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
  - PROPOSED ELECTRIC SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
  - ELECTRICAL TRANSFORMER PAD. CONTRACTOR TO COORDINATE LOCATION WITH ELECTRICAL ENGINEER AND POWER PROVIDER BEFORE CONSTRUCTION
  - PROPOSED GAS SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
  - REFERENCE SHEET C5.0 FOR STORM SEWER INFORMATION
  - PROPOSED GREASE INTERCEPTOR. SEE PLUMBING PLAN FOR DETAIL AND STUB IN LOCATION
  - EXISTING FIRE HYDRANTS TO BE RELOCATED OUT OF PROPOSED ROADWAY. HYDRANTS TO BE REINSTALLED PER CITY OF COLUMBUS & CITY OF DUBLIN'S REQUIREMENTS. REFER TO WATER SERVICE PLAN FOR DETAILS.

- UTILITY PLAN NOTES:
- REFER TO ARCHITECTURAL PLANS FOR EXACT STUB LOCATIONS.
  - REFERENCE SURVEY LEGEND ON SHEET C2.0.
  - REFERENCE SITE LEGEND ON SHEET C3.0.

UTILITY LEGEND	
⊙	SANITARY MANHOLE
⊕	GREASE INTERCEPTOR
⊙	EXISTING SANITARY MANHOLE
⊕	STORM MANHOLE
■	STORM CATCH BASIN
—	STORM HEADWALL/ENDWALL
●	STORM CLEANOUT
⊙	EXISTING STORM MANHOLE
⊕	WATERMAIN TAPPING SLEEVE & VALVE
⊕	WATER SERVICE VALVE
⊕	WATER SERVICE BEND
⊕	WATER SERVICE TEE
⊕	WATER SERVICE VAULT WITH METER
□	ABOVE GROUND HOT BOX WITH CHECK BACKFLOW PREVENTER
⊕	FIRE HYDRANT



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2016.223

DRAWN BY:

SF

DATE:

23 OCTOBER 2017

SHEET NAME:

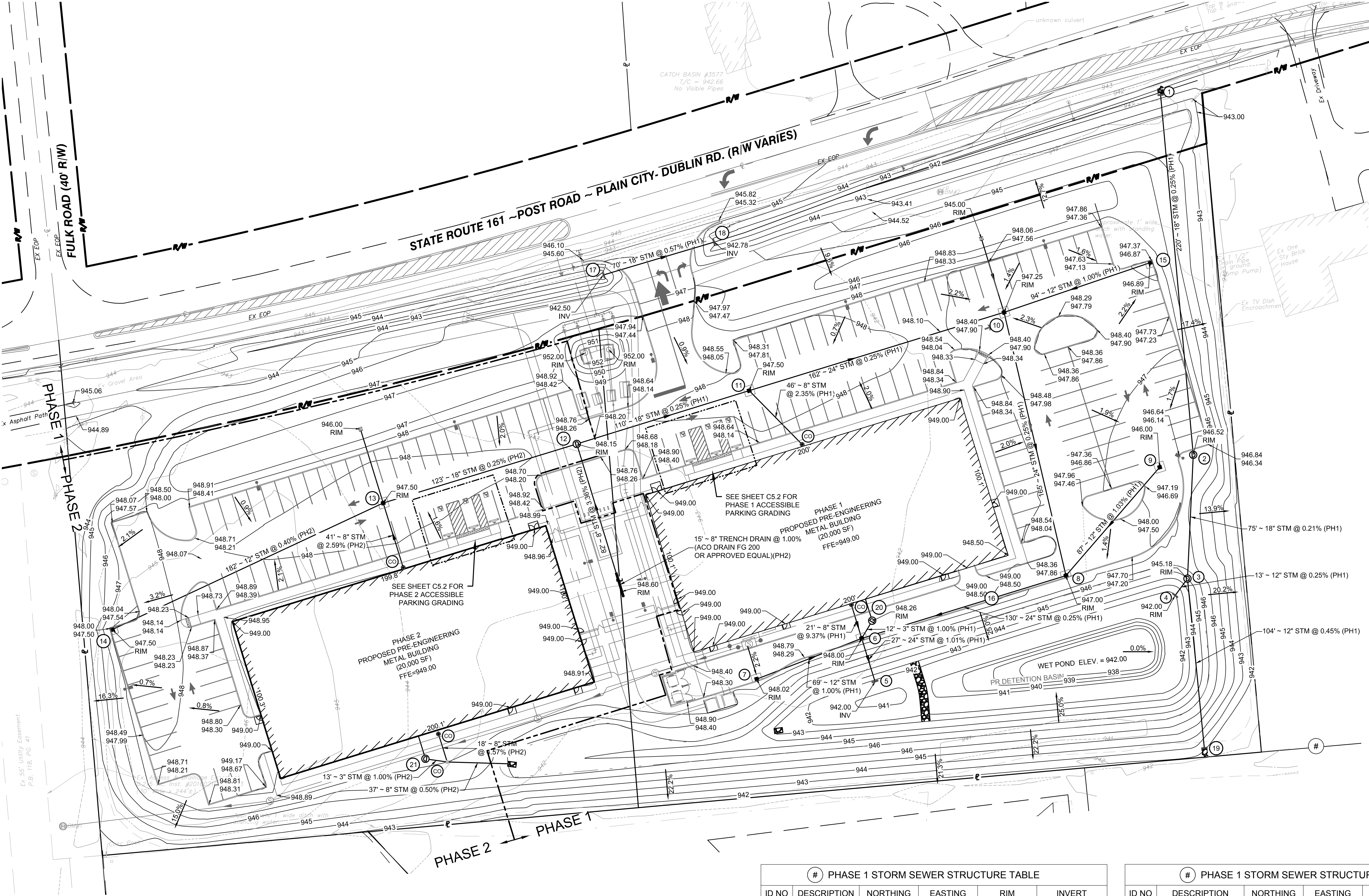
UTILITY PLAN

SHEET NUMBER:

C4.0

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# PHASE 2 STORM SEWER STRUCTURE TABLE					
ID NO	DESCRIPTION	NORTHING	EASTING	RIM	INVERT
13	PR CATCH BASIN	767875.16	1774010.93	947.50	12" SW INV. 944.00 8" S INV. 944.00 18" E INV. 944.00 12" N INV. 944.00
14	PR CATCH BASIN	767798.22	1773846.28	947.50	12" NE INV. 944.73
21	PR STM SUMP PUMP MH (SEE PLUMBING DWGS FOR DETAIL)	767719.54	1774036.65	948.00	3" E INV. 947.00 6" N INV. 943.75

# PHASE 1 STORM SEWER STRUCTURE TABLE					
ID NO	DESCRIPTION	NORTHING	EASTING	RIM	INVERT
1	PR HEADWALL	768123.40	1774483.80	N/A	18" S INV. 941.25
2	PR STM MH	767904.47	1774503.64	946.52	18" N INV. 941.81 18" S INV. 941.81
3	PR STM MH	767829.15	1774500.16	945.18	12" SW INV. 941.97 18" N INV. 941.97 12" S INV. 941.97
4	PR HEADWALL	767818.97	1774492.66	N/A	12" NE INV. 942.00
5	PR HEADWALL	767766.62	1774310.06	N/A	24" N INV. 942.00
6	PR CATCH BASIN	767792.83	1774302.01	948.00	8" N INV. 944.00 3" NE INV. 946.88 24" E INV. 942.28 24" S INV. 942.28 12" W INV. 942.28
7	PR CATCH BASIN	767768.07	1774238.13	948.02	12" E INV. 942.96
8	PR CATCH BASIN	767831.00	1774426.25	947.00	12" NE INV. 942.60 24" W INV. 942.60 24" N INV. 942.60
9	PR CATCH BASIN	767896.95	1774483.24	946.00	12" SW INV. 943.50
10	PR CATCH BASIN	767991.16	1774388.57	947.25	24" W INV. 943.01 24" S INV. 943.01 12" E INV. 942.20 12" N INV. 943.01

# PHASE 1 STORM SEWER STRUCTURE TABLE					
ID NO	DESCRIPTION	NORTHING	EASTING	RIM	INVERT
11	PR CATCH BASIN	767943.53	1774233.53	947.50	24" E INV. 943.42 18" W INV. 943.42 8" SE INV. 943.42
12	PR STM MH	767911.09	1774128.70	948.15	18" W INV. 943.69 18" E INV. 943.69 8" S INV. 943.69
15	PR CATCH BASIN	768021.37	1774477.53	946.89	12" W INV. 941.26
16	TRENCH DRAIN (ACO DRAIN FG 200 OR APPROVED EQUAL)	767818.23	1774389.42	948.32	8" N INV. 946.60
17	PR HEADWALL	768013.94	1774145.05	N/A	18" E INV. 942.70
18	PR HEADWALL	768033.85	1774212.16	N/A	18" W INV. 942.30
19	PR HEADWALL	767726.15	1774510.39	N/A	12" N INV. 941.50
20	PR STM SUMP PUMP MH (SEE PLUMBING DWGS FOR DETAIL)	767803.57	1774308.39	948.27	3" SW INV. 947.00 6" N INV. 943.75

#### ABBREVIATION LEGEND

PR	PROPOSED
EX	EXISTING
R/W	RIGHT OF WAY
R	PROPERTY LINE
BLDG	BUILDING
SF	SQUARE FOOT
FFE	FINISH FLOOR ELEVATION
BM	BENCHMARK
SAN	SANITARY
STM	STORM
MH	MANHOLE
CB	CATCH BASIN

#### SITE GRADING PLAN NOTES:

- ALL GRADES ARE FINISH PAVEMENT GRADES UNLESS OTHERWISE NOTED.
- REFER TO SHEET C2.0 FOR SURVEY LEGEND.

#### GRADING LEGEND

801.88	PROPOSED ELEVATION
793.95 ME	MEET EXISTING ELEVATION
-1.5%	PROPOSED SLOPE
795	PROPOSED CONTOUR
795	EXISTING CONTOUR
---	PHASE LIMITS
➔	MAJOR FLOOD ROUTE (GREATER THAN 100 EVENT)
948.50 948.00	TOP OF CURB BOTTOM OF CURB



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2016.223

#### DRAWN BY:

SF

#### DATE:

23 OCTOBER 2017

#### SHEET NAME:

STORM &  
GRADING PLAN

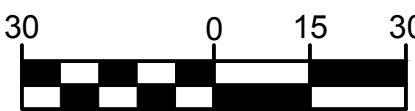
#### SHEET NUMBER:

C5.0

NORTH



GRAPHIC SCALE



(IN FEET)  
1 inch = 30 ft.

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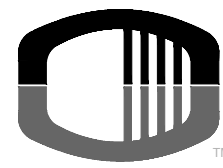








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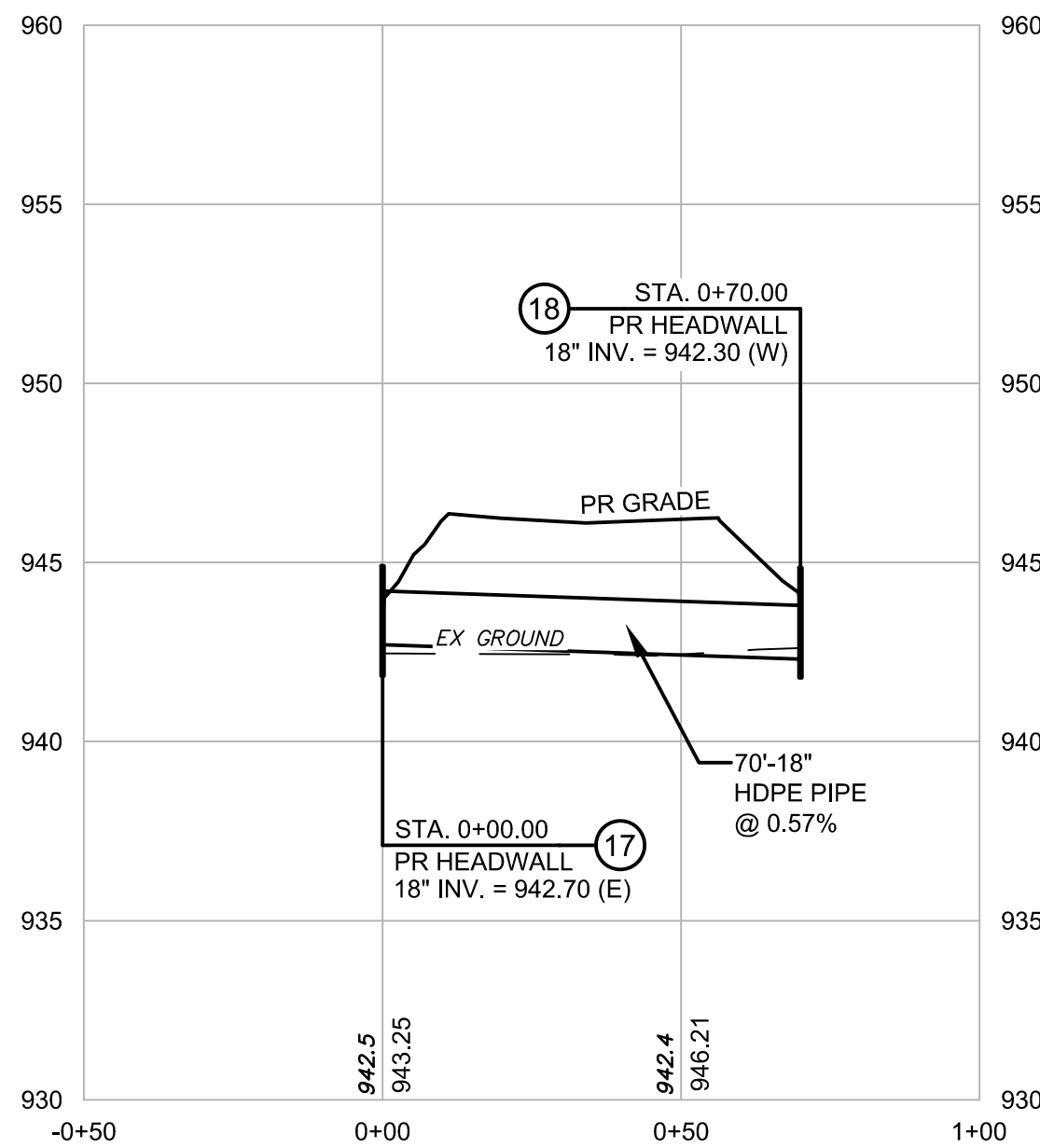
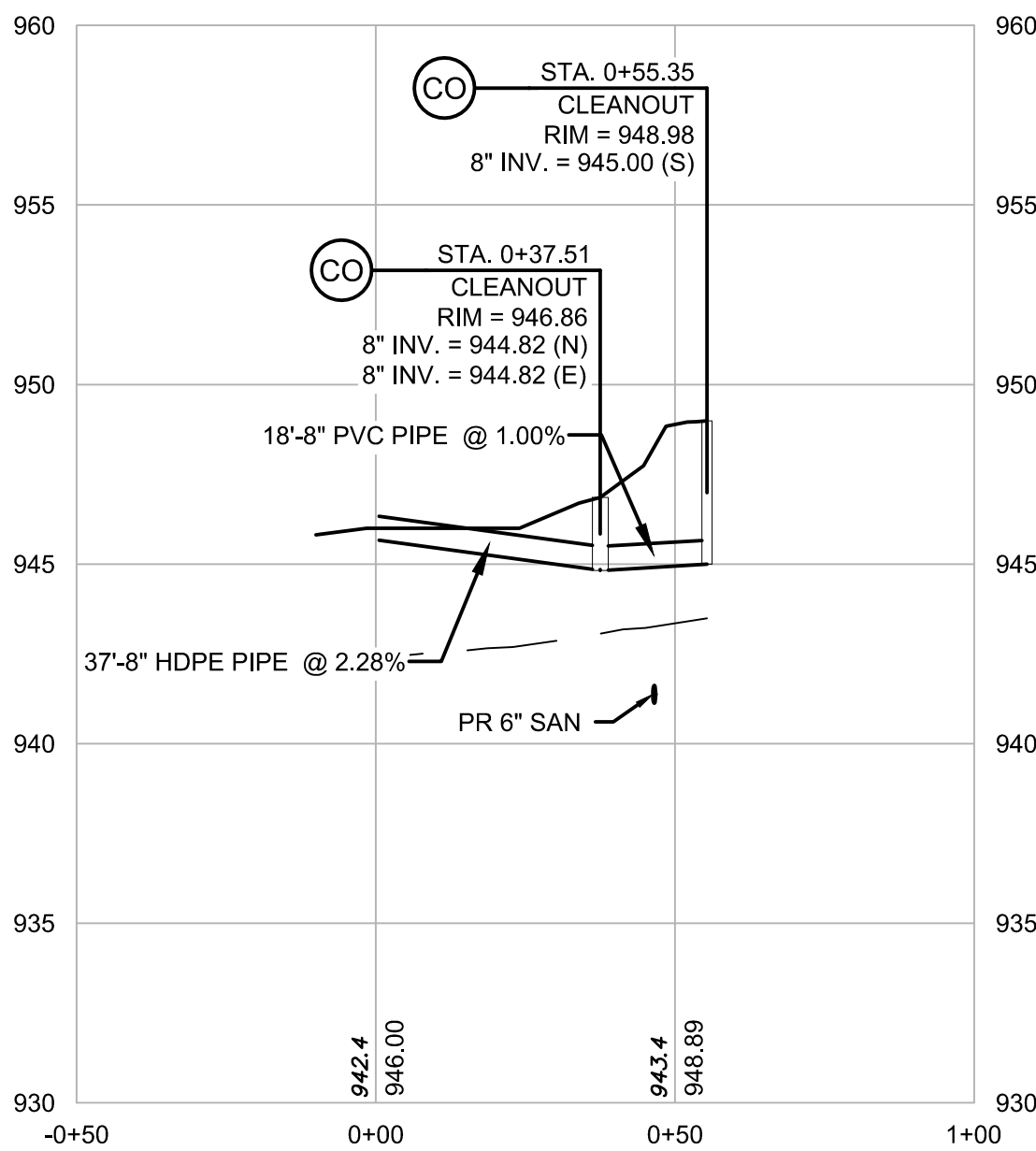
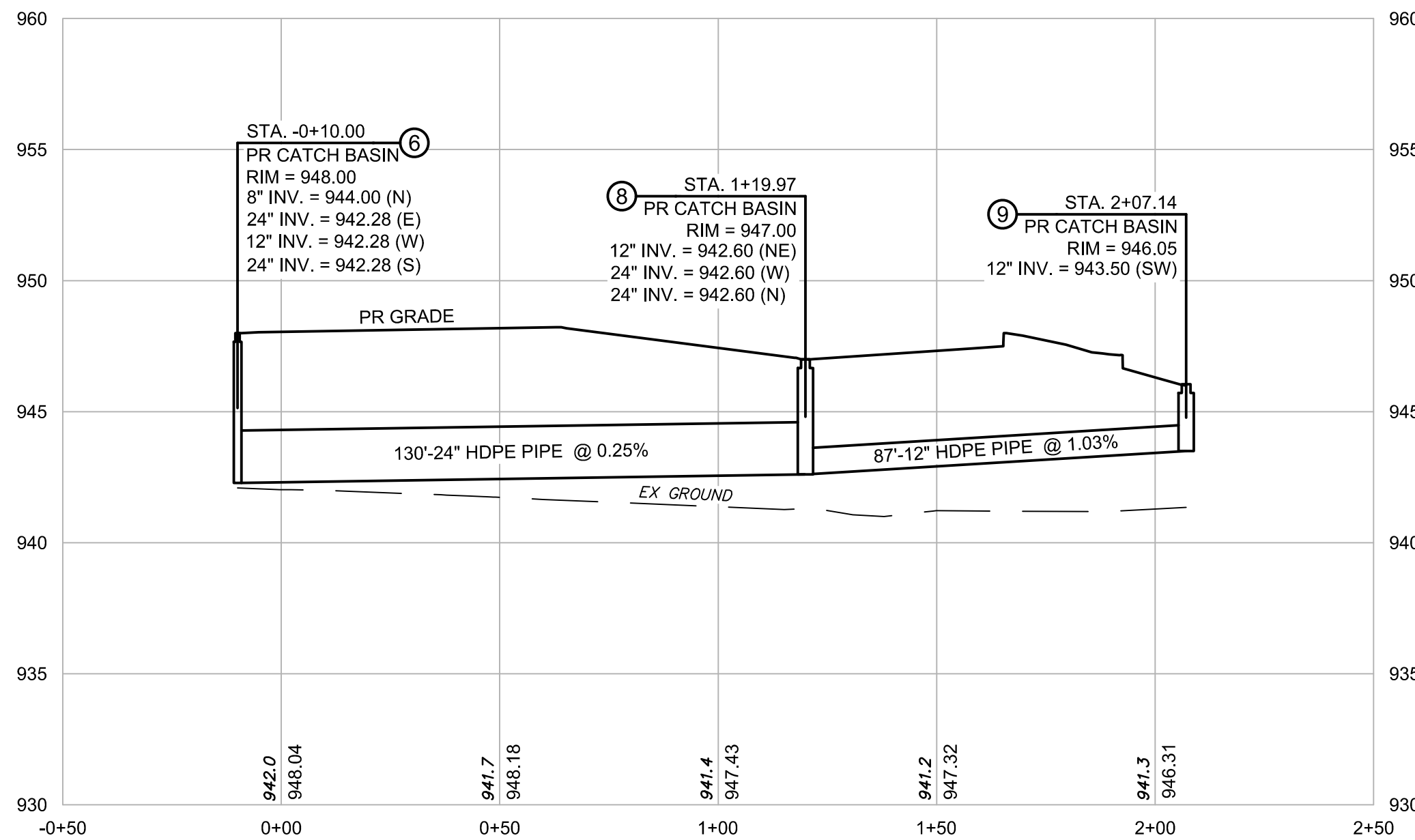
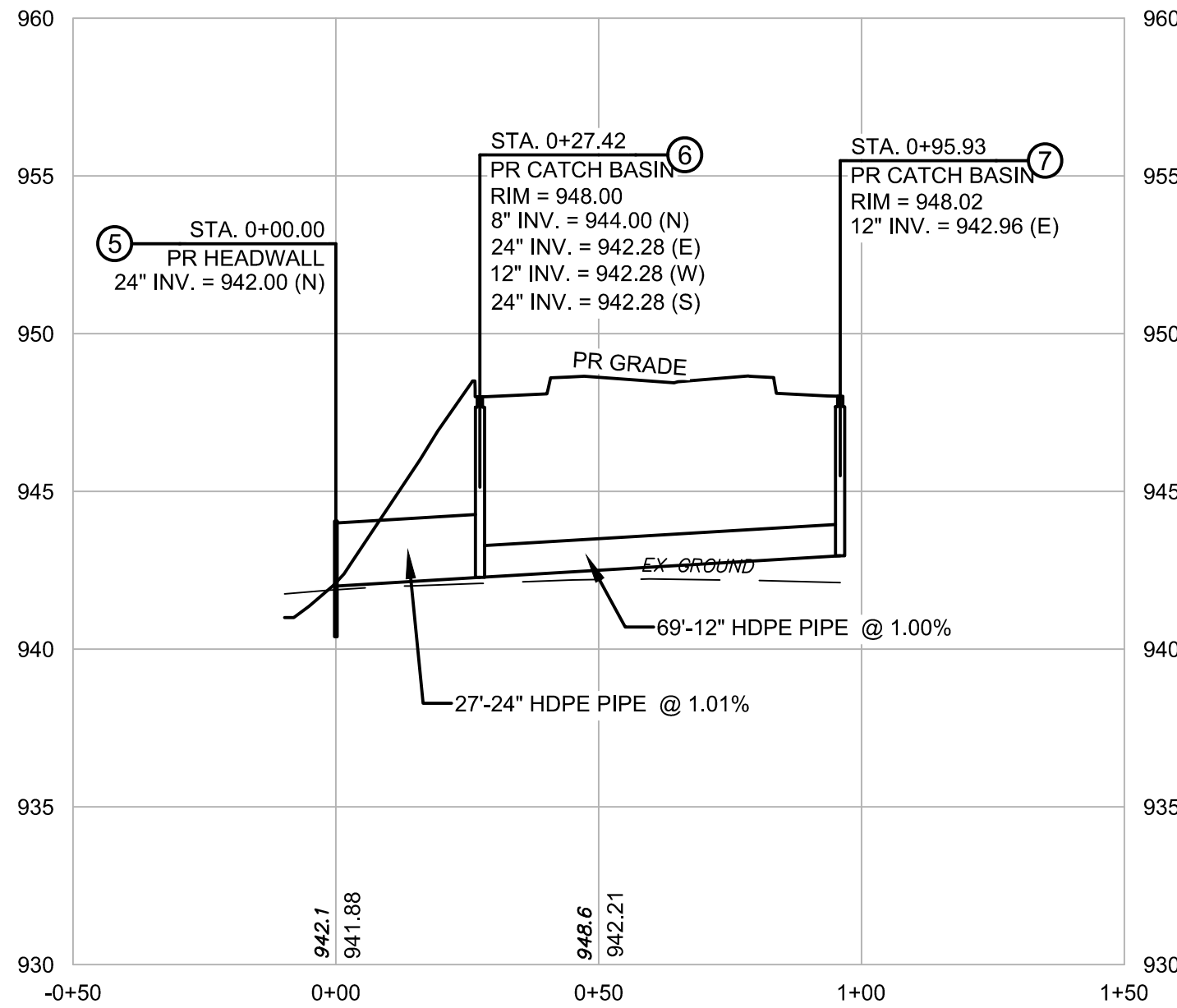
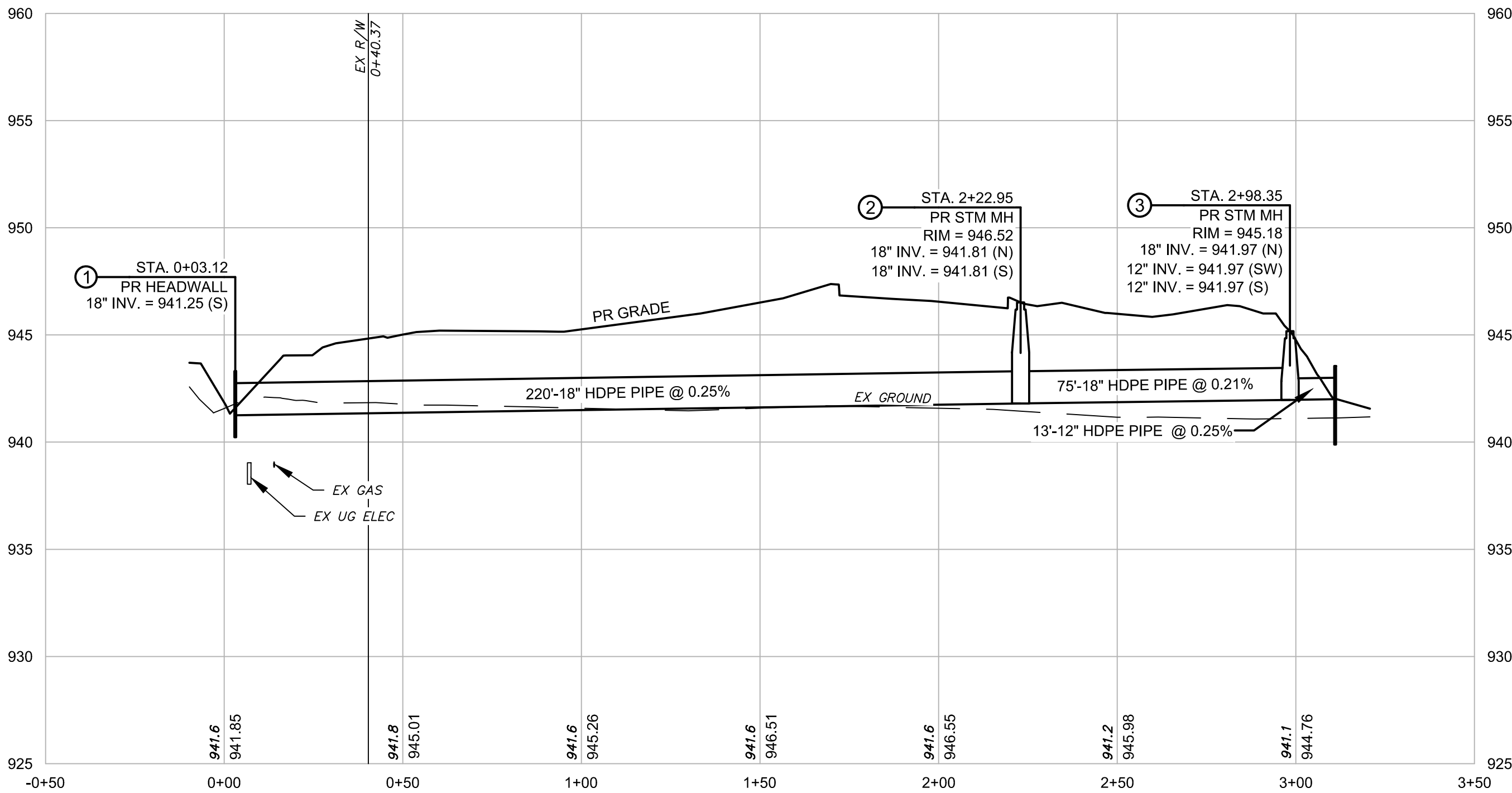
SHEET NAME:

STORM SEWER  
PROFILES

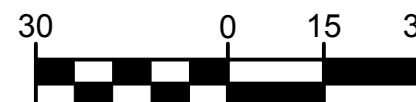
SHEET NUMBER:

C5.2

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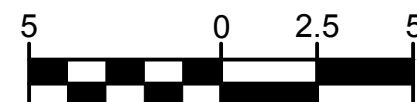
HORIZONTAL SCALE



( IN FEET )

1 inch = 30ft.

VERTICAL SCALE



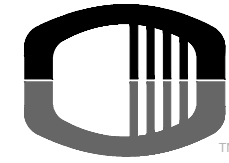
( IN FEET )

1 inch = 5 ft.





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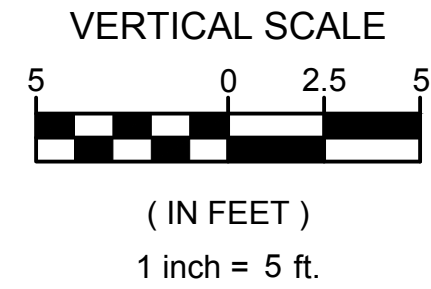
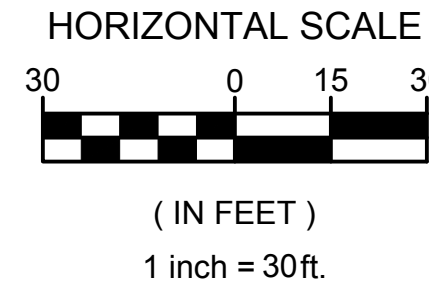
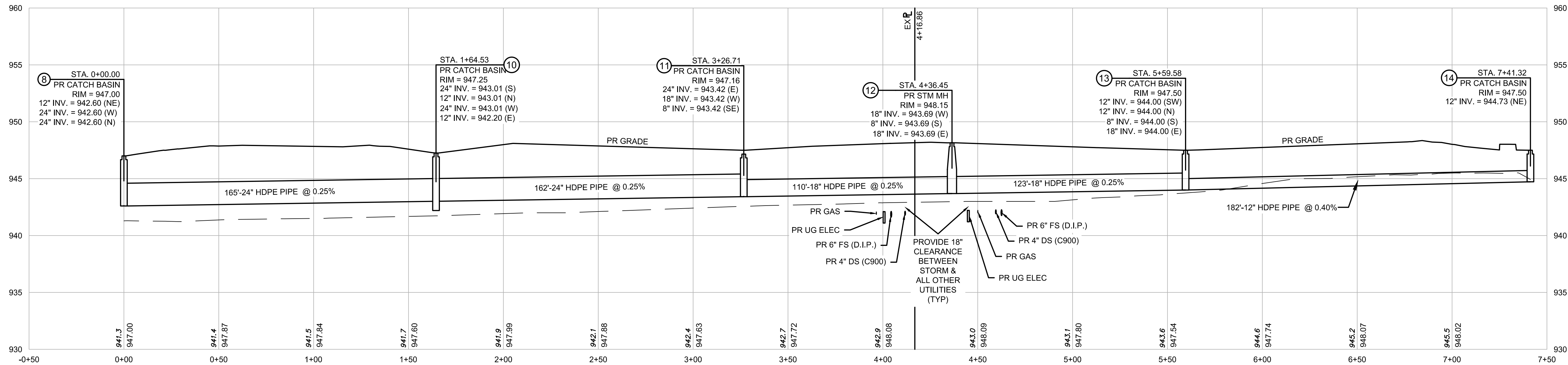
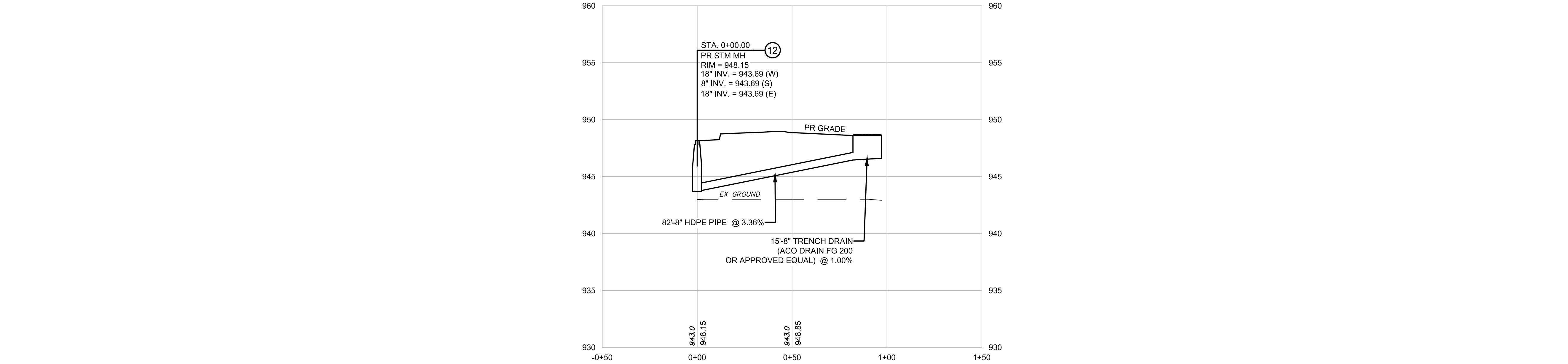
SHEET NAME:

STORM SEWER  
PROFILES

SHEET NUMBER:

C5.3

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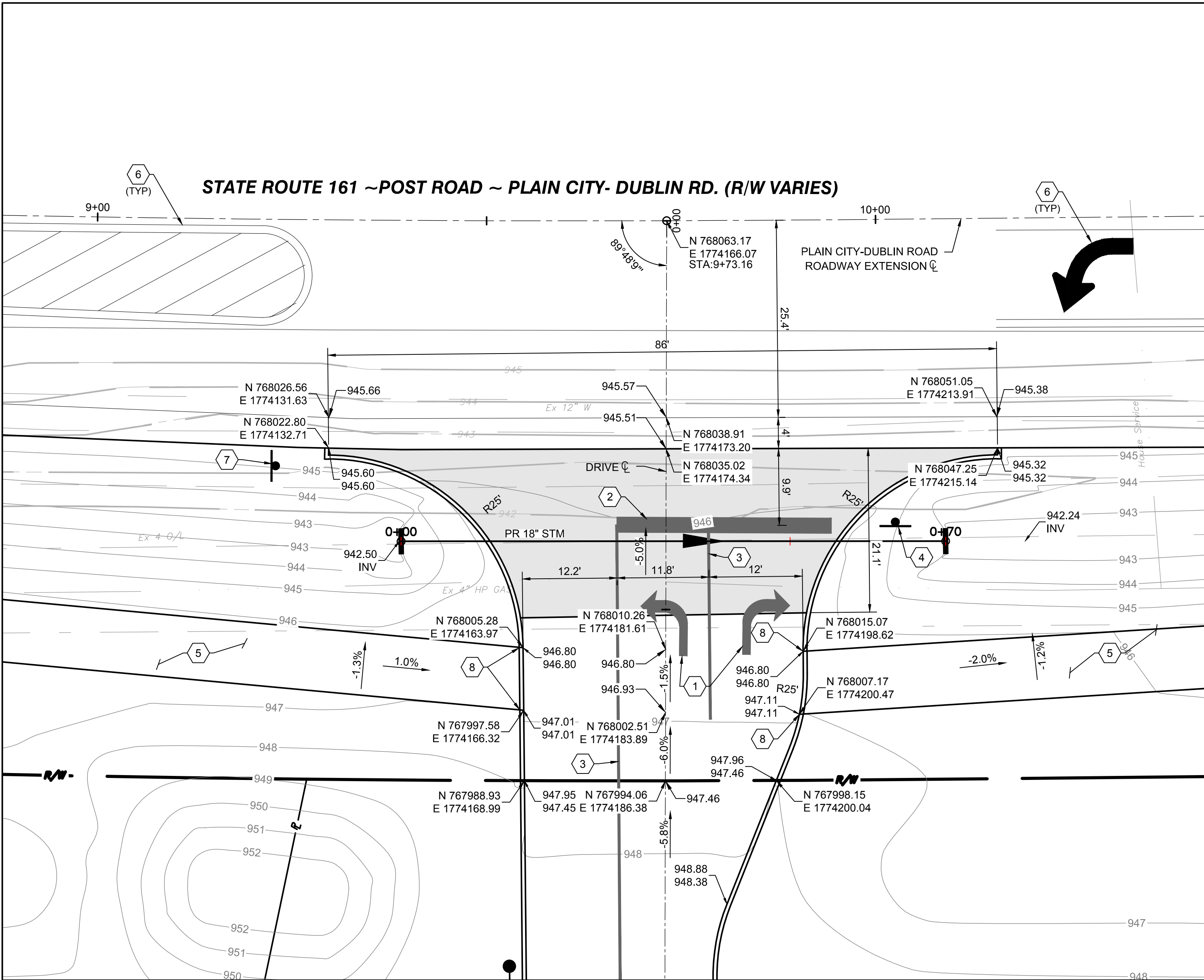




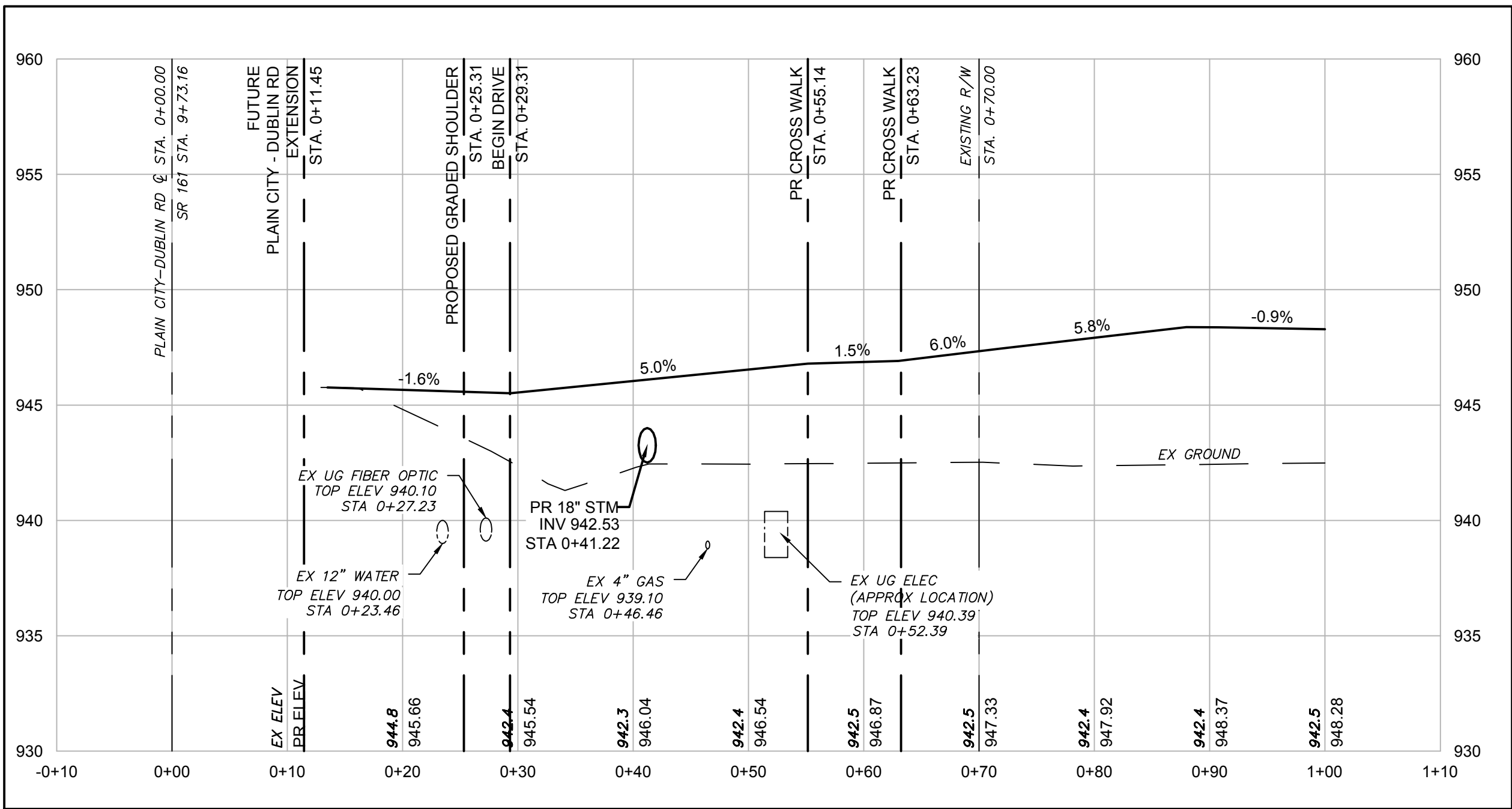
- # SITE LAYOUT PLAN CODED NOTES:
- PAVEMENT ARROW
  - PAVEMENT STOP BAR
  - CHANNELING PAVEMENT MARKING
  - STOP SIGN (R1-1) PER OMUTCD
  - PROPOSED 8' PUBLIC BIKE PATH PER CITY OF DUBLIN STANDARD DRAWING RD-06.
  - LEFT TURN LANE ADDITION (REFERENCE ROADWAY IMPROVEMENT PLAN C7.0)
  - RELOCATED TOURIST ACTIVITIES SIGN
  - 1:1 CHAMFER CURB

HATCHING LEGEND

CONCRETE DRIVE APRON



DRIVEWAY DETAIL  
SCALE: 1" = 10'



DRIVEWAY PROFILE  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 5'



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SHEET NAME:

DRIVEWAY PLAN  
AND PROFILE

SHEET NUMBER:

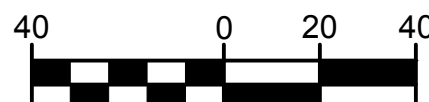
C6.0

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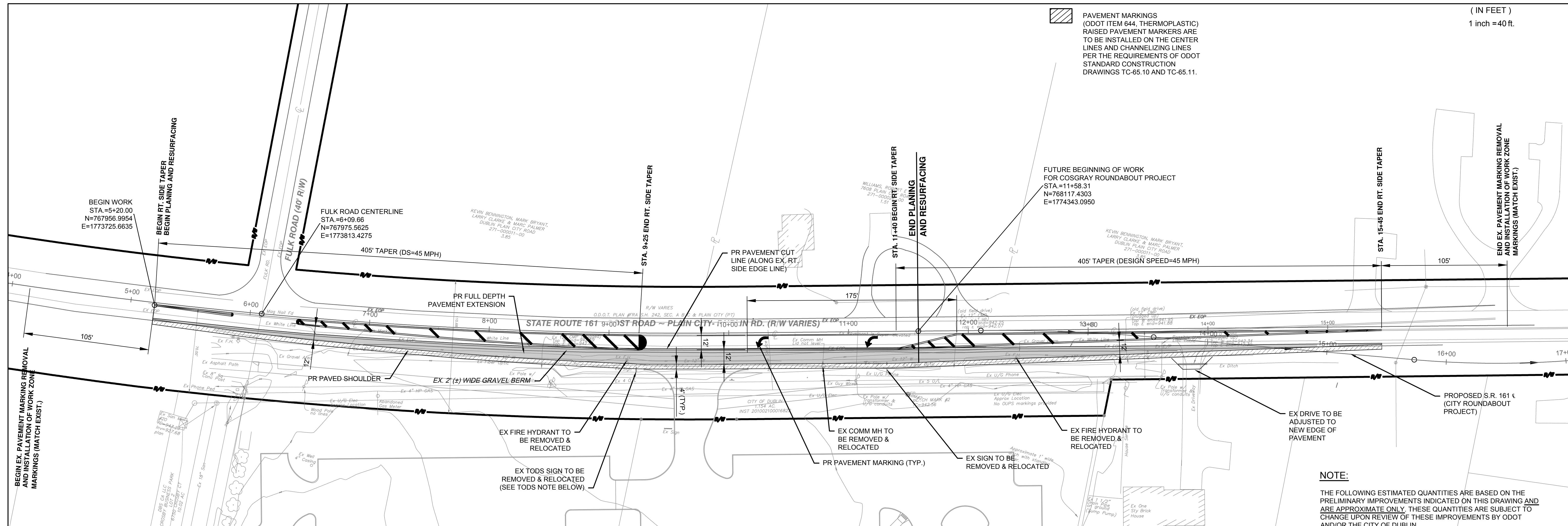
GRAPHIC SCALE



( IN FEET )  
1 inch = 40 ft.

HATCHING LEGEND

- FULL DEPTH ASPHALT PAVEMENT
- PR PAVED SHOULDER
- PAVEMENT MARKINGS  
(ODOT ITEM 644, THERMOPLASTIC)  
RAISED PAVEMENT MARKERS ARE  
TO BE INSTALLED ON THE CENTER  
LINES AND CHANNELIZING LINES  
PER THE REQUIREMENTS OF ODOT  
STANDARD CONSTRUCTION  
DRAWINGS TC-65.10 AND TC-65.11.

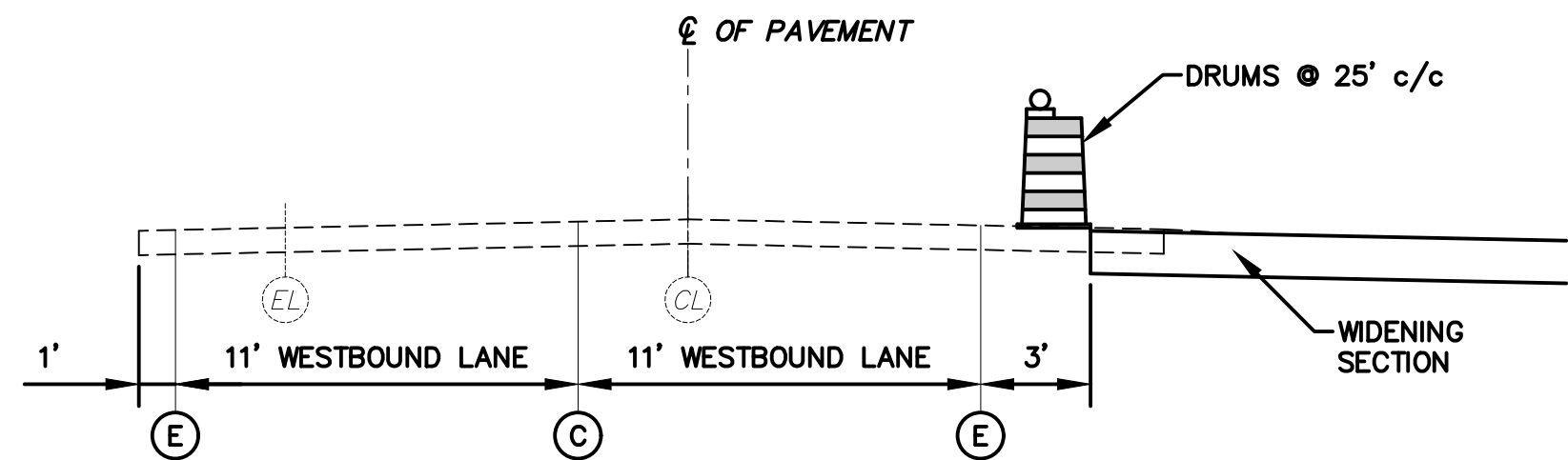


TODS NOTE:

DURING CONSTRUCTION OF THE ROADWAY AND SITE DEVELOPMENT, THE CONTRACTOR SHALL MOVE THE TOURIST-ORIENTED DIRECTIONAL SIGN (TODS) TO A TEMPORARY LOCATION IN ACCORDANCE WITH ODOT CMS 614.07. TODS SHALL ALWAYS REMAIN VISIBLE AT ALL TIMES AND NEVER BE STORED.

TYPICAL SECTION LEGEND

- (A) FULL-DEPTH ASPHALT PAVEMENT (THICKNESS UNKNOWN)
- (B) GRAVEL SHOULDER
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=1 1/2")
- ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)
- ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
- ITEM 304 - 6" AGGREGATE BASE
- ITEM 204 - SUBGRADE COMPACTION
- ITEM 653 - 3" TOPSOIL FURNISHED AND PLACED^
- ITEM 659 - SEEDING AND MULCHING^
- ITEM 407 - NON-TRACKING TACK COAT @ 0.05 GAL./S.Y.
- ITEM 605 - 4" UNDERDRAIN (ODOT CMS 707.31 OR 707.33)
- ITEM 611 - 4" CONDUIT, TYPE F
- ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET
- SHARED-USE PATH (STANDARD DUTY) AS PER CITY OF DUBLIN DRAWING NO. RD-06
- ^ = INDICATES ITEM TO BE CONSTRUCTED USING CITY OF DUBLIN AS PER PLAN NOTE



- (CL) EXISTING CENTER LINE (REMOVE)
- (EL) EXISTING EDGE LINE (REMOVE)
- (C) WORK ZONE CENTER LINE, CLASS I (DOUBLE SOLID)
- (E) WORK ZONE EDGE LINE, CLASS I (WHITE)

(USE 642 PAINT ON THE PLANED AND RESURFACED AREAS BETWEEN STA. 5+20 AND STA. 11+58.31, AND ON THE INTERMEDIATE COURSE IN THE WIDENING AREA; USE 740.06 TYPE I IN ALL OTHER LOCATIONS)

- REMOVE EXISTING PAVEMENT MARKINGS (INCLUDING RAISED PAVEMENT MARKERS) AS NECESSARY AND PLACE CLASS I WORK ZONE PAVEMENT MARKINGS.
- PLACE DRUMS ADJACENT TO PAVEMENT CUT LINE AND CONSTRUCT PAVEMENT AND SHOULDER WIDENING TO THE TOP OF THE INTERMEDIATE COURSE.
- PLANE THE EXISTING SURFACE WHERE INDICATED. DURING THIS TIME, MAINTAIN TRAFFIC USING ODOT STANDARD CONSTRUCTION DRAWING MT-97.11. AFTER PLANING THE EXISTING SURFACE, PLACE CLASS I WORK ZONE CENTER LINES AND CHANNELIZING LINES ON THE PLANED SURFACE, EXISTING SURFACE, OR NEW INTERMEDIATE COURSE AT THE SAME LOCATIONS WHERE THE NEW MARKINGS WILL BE LOCATED.
- PLACE THE NEW SURFACE COURSE ON THE PLANED SURFACE AND THE WIDENING SECTION. DURING THIS TIME, MAINTAIN TRAFFIC USING ODOT STANDARD CONSTRUCTION DRAWING MT-97.11. AFTER PLACING THE SURFACE COURSE, PLACE CLASS II WORK ZONE CENTER LINES ON THE SURFACE COURSE AT THE SAME LOCATIONS WHERE THE NEW CENTER LINES OR CHANNELIZING LINES WILL BE LOCATED.
- PLACE THE NEW PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS AS INDICATED.

MAINTENANCE OF TRAFFIC TYPICAL SECTION AND CONCEPTUAL PHASING

NOTE:

THE FOLLOWING ESTIMATED QUANTITIES ARE BASED ON THE PRELIMINARY IMPROVEMENTS INDICATED ON THIS DRAWING AND ARE APPROXIMATE ONLY. THESE QUANTITIES ARE SUBJECT TO CHANGE UPON REVIEW OF THESE IMPROVEMENTS BY ODOT AND/OR THE CITY OF DUBLIN.

ROADWAY IMPROVEMENTS QUANTITIES

ITEM	UNIT	QUANTITY	DESCRIPTION
202	FT	60	REMOVE EXISTING 12" DRIVE CULVERT
202	FT	25	REMOVE AND RELOCATE EXISTING 12" DRIVE CULVERT
202	EA	1	REMOVE AND RELOCATE EXISTING COMMUNICATIONS MANHOLE
204	SY	1509	SUBGRADE COMPACTION
209	MILE	0.19	LINEAR GRADING
254	SY	1929	PAVEMENT PLANING, ASPHALT CONCRETE
301	CY	244	ASPHALT CONCRETE BASE, PG64-22
304	CY	252	AGGREGATE BASE
407	GAL	167	NON-TRACKING TACK COAT
441	CY	139	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
441	CY	68	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)
605	FT	1,029	4" UNDERDRAIN (ODOT CMS 707.31 OR 707.33)
611	FT	24	4" CONDUIT TYPE F
611	EA	3	PRECAST REINFORCED CONCRETE OUTLET
614	MILE	0.32	WORK ZONE CENTER LINE, CLASS I, 642 PAINT
614	MILE	0.27	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I
614	MILE	0.31	WORK ZONE CENTER LINE, CLASS II
614	MILE	0.28	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT
614	MILE	0.19	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I
614	FT	125	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT
621	EA	15	RAISED PAVEMENT MARKER REMOVED
621	EA	25	RAISED PAVEMENT MARKER
638	EA	2	VALVE BOX ADJUSTED TO GRADE
SPEC	EA	2	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE (COLUMBUS STANDARDS)
644	MILE	0.47	EDGE LINE, 4"
644	MILE	0.31	CENTER LINE
644	FT	125	CHANNELIZING LINE, 8"
644	FT	227	TRANSVERSE/DIAGONAL LINE
644	SF	64	ISLAND MARKING
644	EA	2	LANE ARROW
644	FT	2,360	REMOVAL OF PAVEMENT MARKING
653	CY	158	TOPSOIL FURNISHED AND PLACED
659	SY	1891	SEEDING AND MULCHING



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2016.223

DRAWN BY:

SF

DATE:

22 SEPTEMBER 2017

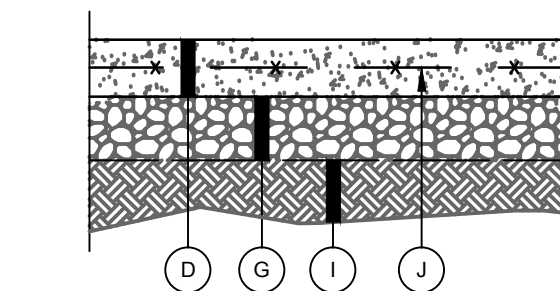
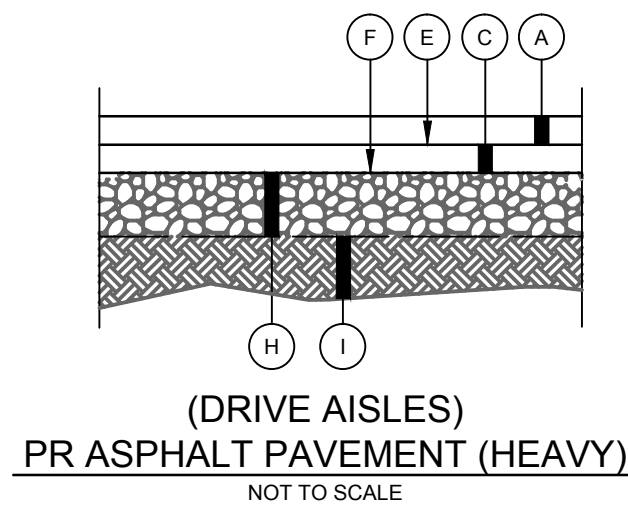
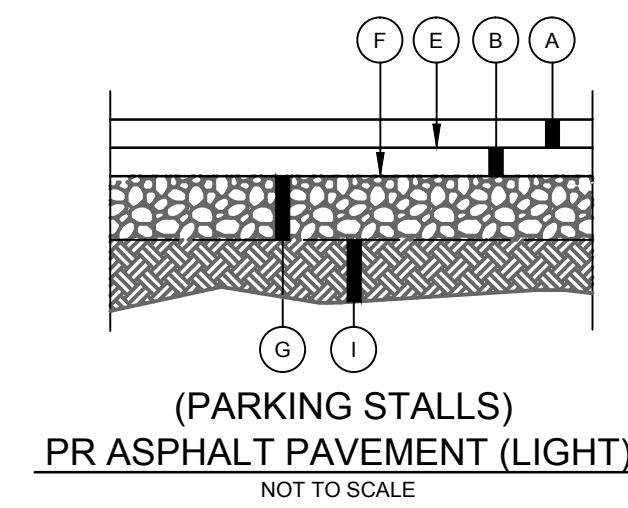
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ROADWAY  
IMPROVEMENT PLAN

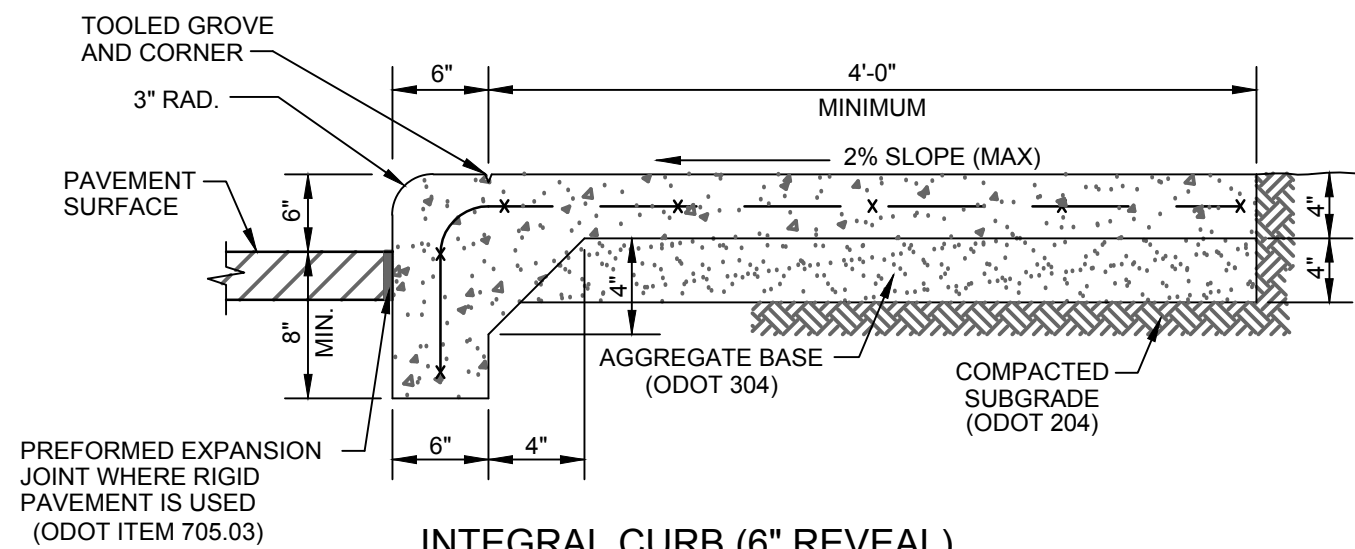
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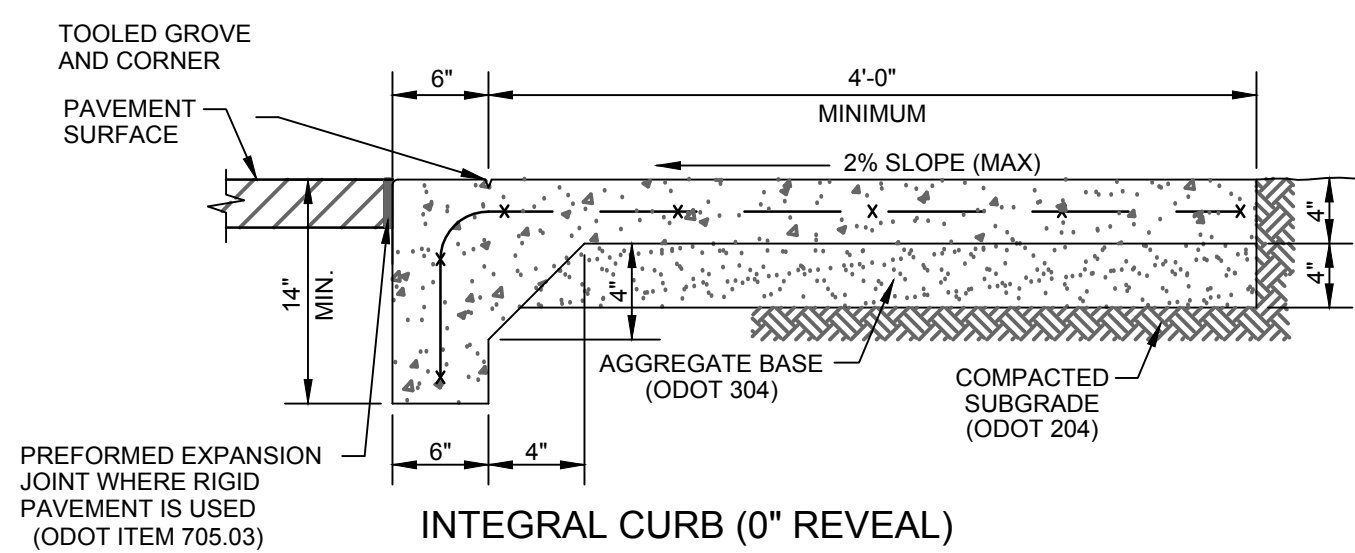
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#### FULL DEPTH HEAVY DUTY CONCRETE PAVEMENT

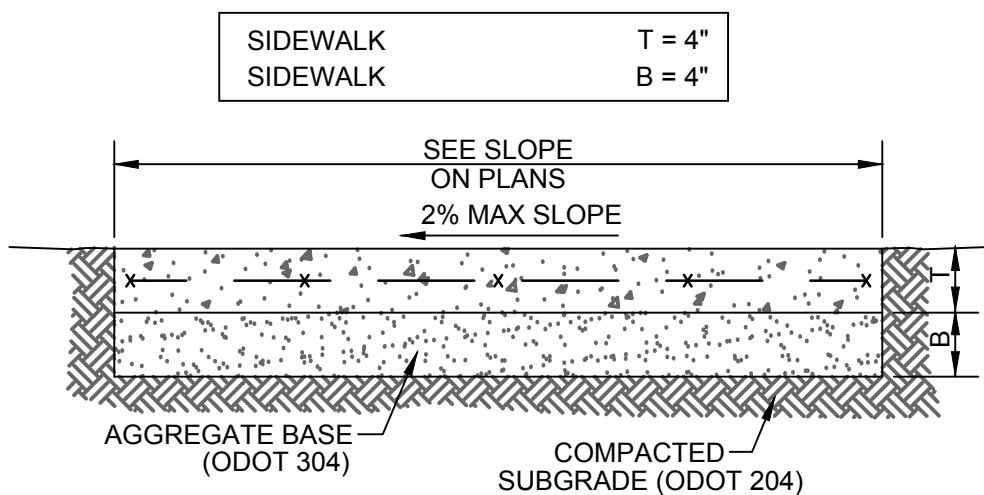


#### Integral Curb (6" REVEAL) CONCRETE SIDEWALK DETAIL



#### Integral Curb (0" REVEAL) CONCRETE SIDEWALK DETAIL

- NOTES
- 1) USE 3/8"x 4" EXPANSION JOINTS AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES, AND RIGID PAVEMENT. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 20 FEET.
  - 2) CONCRETE- SIDEWALKS- USE READY-MIX CONCRETE WITH 4,000 PSI STRENGTH @ 28 DAYS.
  - 3) USE REINFORCEMENT - 6x6 - W1.4x W1.4 W.W.M.
  - 4) TOOL ALL EXPOSED EDGES AND JOINTS TO 3/4" RADIUS.
  - 5) BROOM FINISH ACROSS DIRECTION OF TRAVEL.



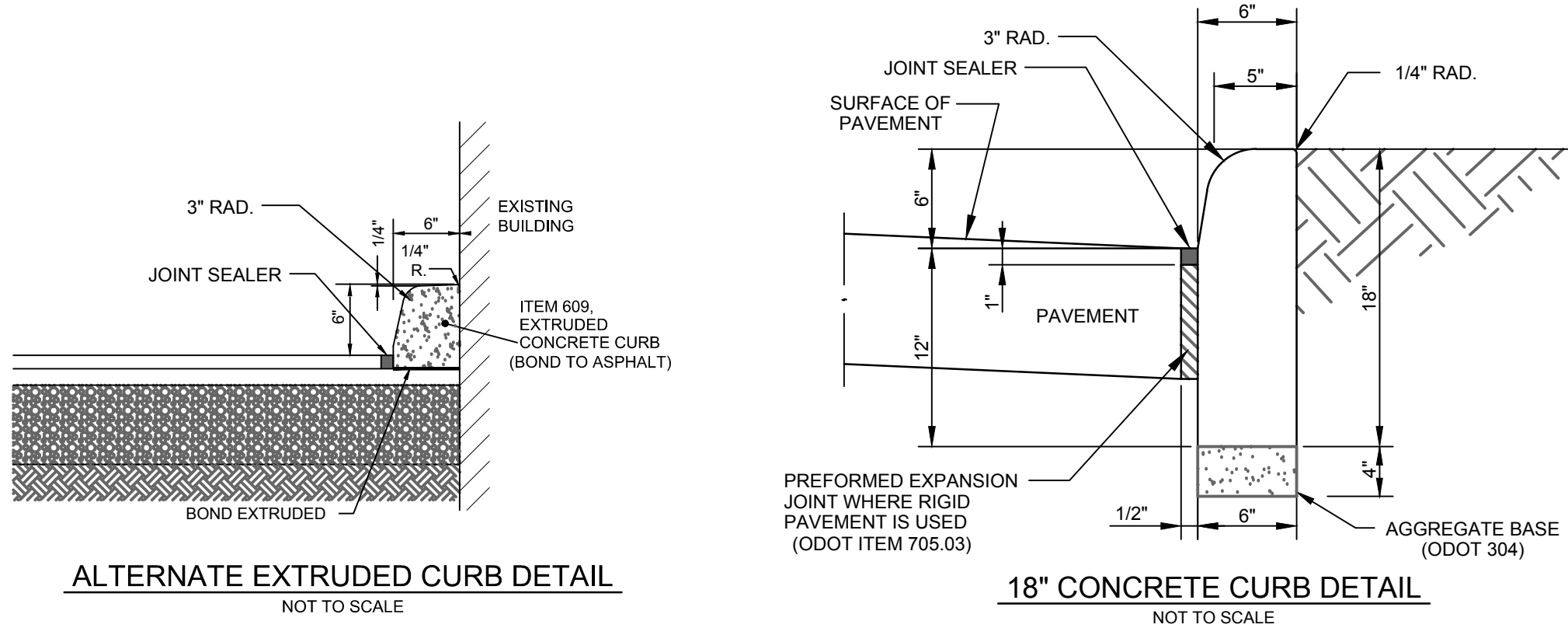
#### CONCRETE SIDEWALK DETAIL

#### PAVEMENT LEGEND

- 1.50" MIN. ASPHALT SURFACE COURSE (ODOT CMS 448 TYPE 1)
- 1.75" MIN. ASPHALT INTERMEDIATE COURSE (ODOT CMS 448 TYPE 2)
- 2.5" MIN. ASPHALT INTERMEDIATE COURSE (ODOT CMS 448 TYPE 2)
- 8" REINFORCED CONCRETE (ODOT CMS 451)
- TACK COAT (ODOT CMS 407)
- PRIME COAT (ODOT CMS 408)
- 8" AGGREGATE BASE (ODOT CMS 304)
- 10" AGGREGATE BASE (ODOT CMS 304)
- SUBGRADE COMPACTION (ODOT CMS 204)
- WELDED WIRE FABRIC MAT REINFORCEMENT (ODOT ITEM 509)

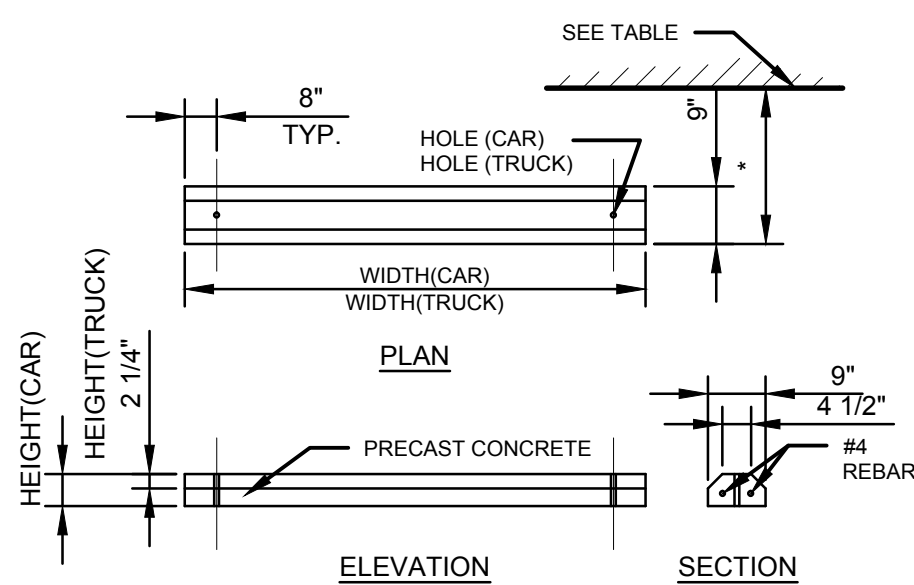
#### PAVEMENT NOTES:

- PAVEMENT SECTION TO BE VERIFIED WITH GEOTECHNICAL ENGINEER AND APPROVED BY OWNER PRIOR TO INSTALLATION.



#### ALTERNATE EXTRUDED CURB DETAIL

#### 18" CONCRETE CURB DETAIL



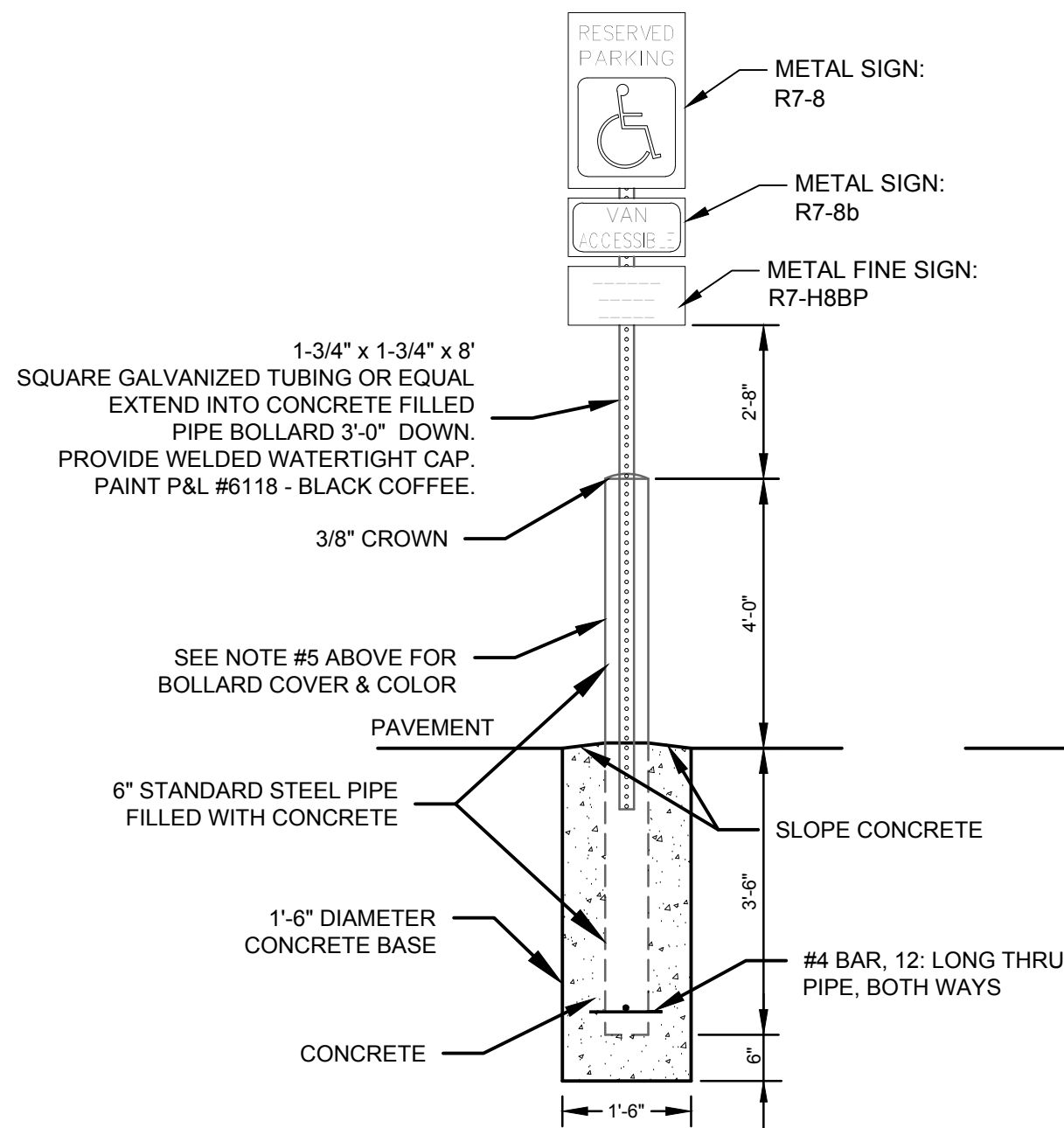
#### PRECAST CONCRETE WHEEL STOP DETAIL

#### WHEEL STOP NOTES:

- 1) CONCRETE USED IN PRECASTING WHEEL STOPS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS
- 2) DETAILED DIMENSIONS MAY BE VARIED SLIGHTLY TO CONFORM TO LOCAL AVAILABILITY WHEN APPROVED BY THE ENGINEER
- 3) WHEEL STOPS SHALL BE HELD IN PLACE BY DRIVING TWO (2) 18" LONG #4 REBARS THROUGH THE PREFORMED HOLES IN EACH PRECAST WHEEL STOP FOR AUTOS, FOR TRUCKS USE 30" LONG #6 REBAR

WHEEL STOP LOCATION	FROM	*
EDGE OF PAVEMENT	2'-0"	
FACE OF CURB	2'-6"	
FACE OF WALL	3'-6"	
FACE OF FENCE	3'-6"	

#### VAN ACCESSIBLE PARKING SIGN



#### PIPE BOLLARD WITH ADA ACCESSIBLE SIGN DETAIL NOTES:

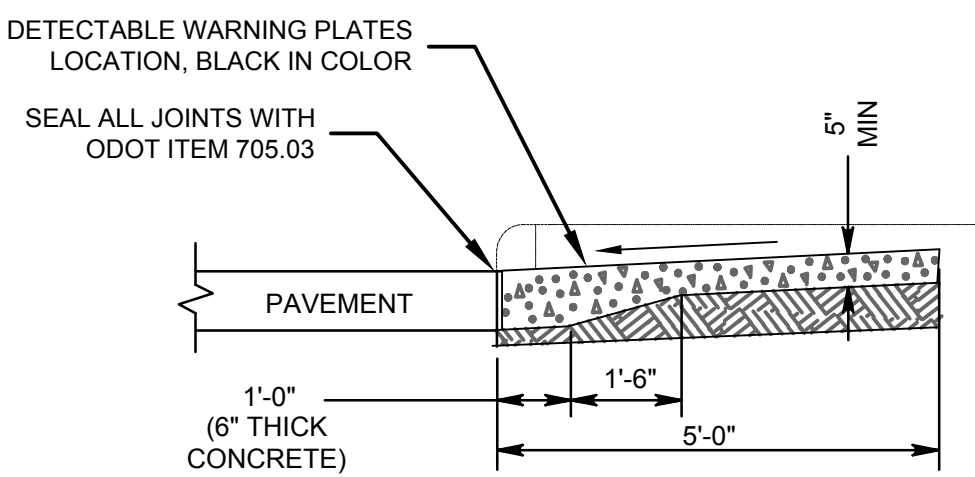
1. USE HANDICAPPED PARKING SIGNS SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS
2. USE 3/8"x 4" EXPANSION JOINT WHEN CONCRETE ABUTS RIGID PAVEMENT.
3. USE READY-MIX CONCRETE WITH 3,000 PSI STRENGTH AT 28 DAYS.
4. TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS.
5. INSTALL 1/4" IDEALSHIELD (OR APPROVED EQUAL) PLASTIC BOLLARD COVER, BLACK IN COLOR, PRIOR TO ATTACHING SIGN PANEL TO POST. (WWW.IDEALSHIELD.COM)

NOTE: SIGNS SHALL BE IN ACCORDANCE WITH OHIO REVISED CODE 4511.69(E), APPLICABLE CITY REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. SIGN DESIGNATIONS ARE ACCORDING TO THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

#### HANDICAP PARKING SIGNS

#### CURB RAMP NOTES:

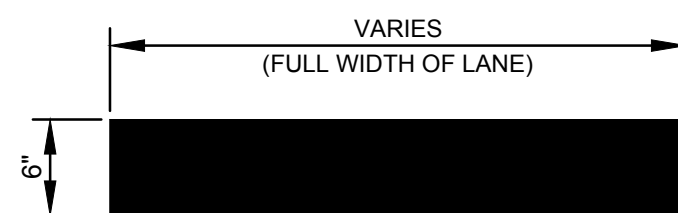
1. ALL DETECTABLE WARNING PLATES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
2. JOINTS SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK. A 1/2" ITEM 705.03 EXPANSION JOINT FILLER SHALL BE PROVIDED AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALK. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGE AND SLOPE CHANGES AND ARE NOT NECESSARILY JOINT LINES.
3. EXPANSION JOINT FILLER SHALL NOT EXTEND ABOVE THE SURFACE OF THE PAVEMENT.



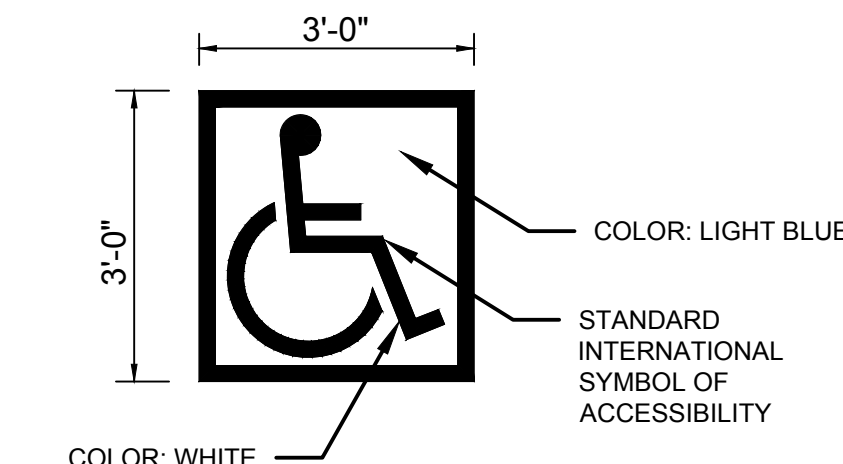
#### CURB RAMP SECTION DETAIL

#### STOP BAR NOTES:

1. DIMENSIONS BETWEEN STRIPING ARE MEASURED TO THE CENTER OF THE STRIPE UNLESS NOTED OTHERWISE.



#### STOP BAR DETAIL

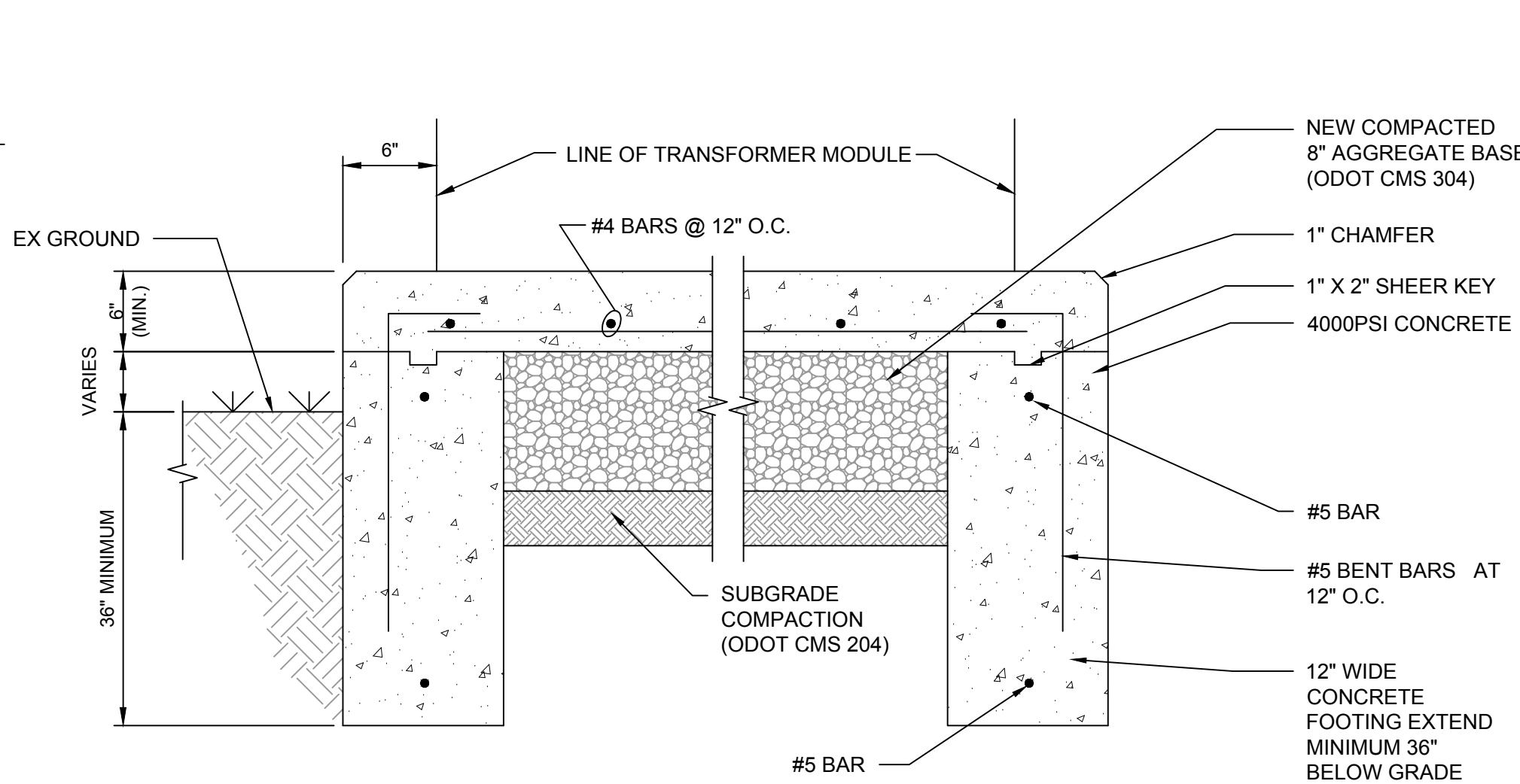


#### HANDICAP PARKING SYMBOL DETAIL

NOT TO SCALE

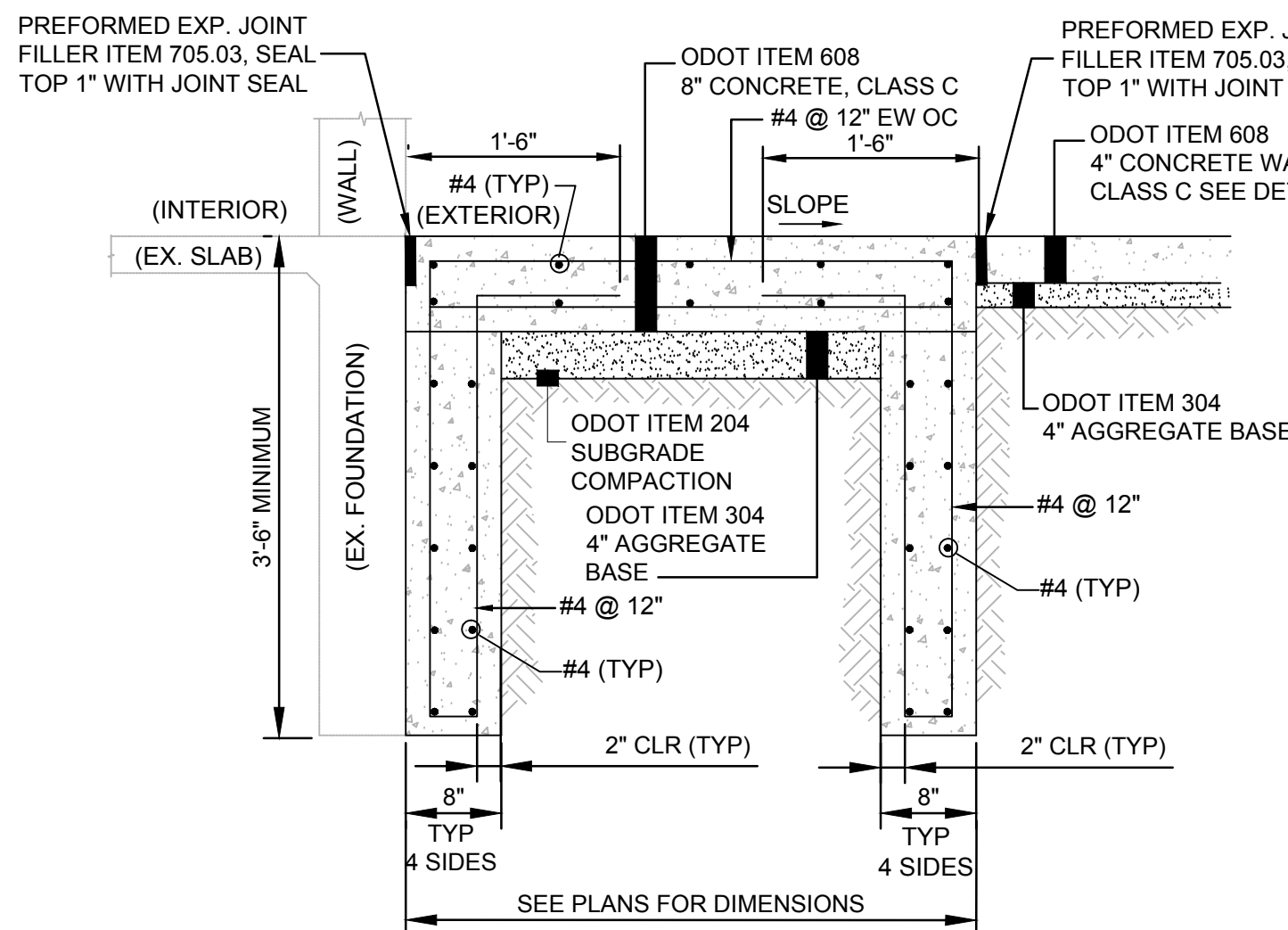
#### TRANSFORMER ANCHORS

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY THE LOCATIONS OF HURRICANE TIE-DOWN ANCHORS TO BE CAST INTO NEW CONCRETE FOUNDATION FOR TRANSFORMER. ANCHORAGE TO BE DESIGNED TO WITHSTAND WINDS UP TO 100 MPH OR AS REQUIRED BY LOCAL CODES.



#### TRANSFORMER PAD DETAIL

NOT TO SCALE



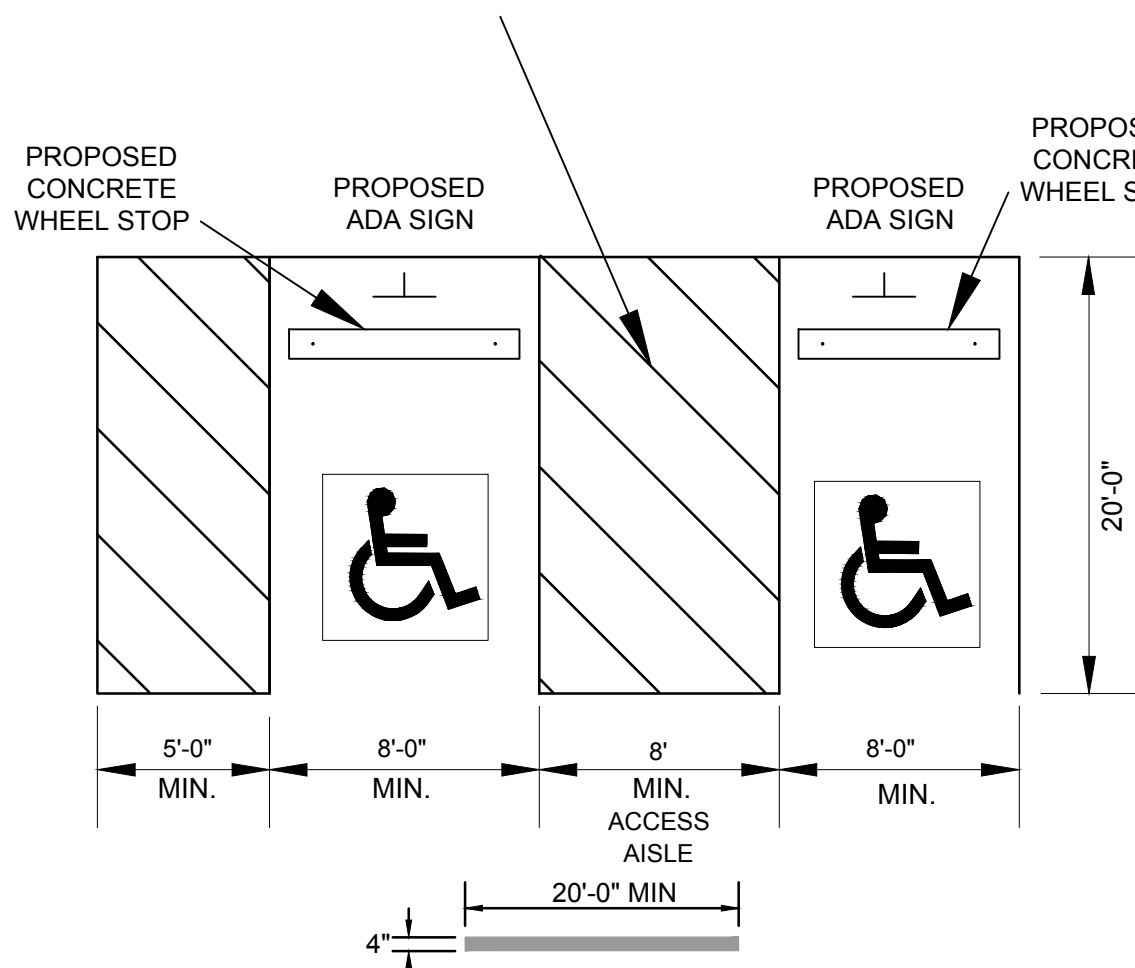
#### (CONCRETE WALK) FROST STOOP DETAIL

NOT TO SCALE

#### PAVEMENT MARKING NOTES AND SPECIFICATIONS

1. ALL PAVEMENT MARKINGS SHALL BE YELLOW FAST DRY-WATER-BASED TRAFFIC PAINT PER O.D.O.T. SPEC. 642
2. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGN GUIDE AND SHALL MEET ALL CURRENT A.D.A. (AMERICAN WITH DISABILITIES ACT) STANDARDS.

REPAINT YELLOW STRIPES 4" WIDE @ 3' SPACING (TYPICAL FOR ACCESSIBLE ROUTES)

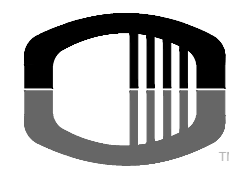


#### PAVEMENT MARKING SPECIFICATIONS

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1	10-03-17	ADDENDUM 1
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#### PROJECT NUMBER:

2016.223

#### DRAWN BY:

SF

#### DATE:

23 OCTOBER 2017

#### SHEET NAME:

CONSTRUCTION

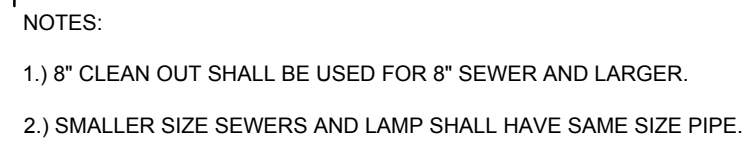
#### DETAILS

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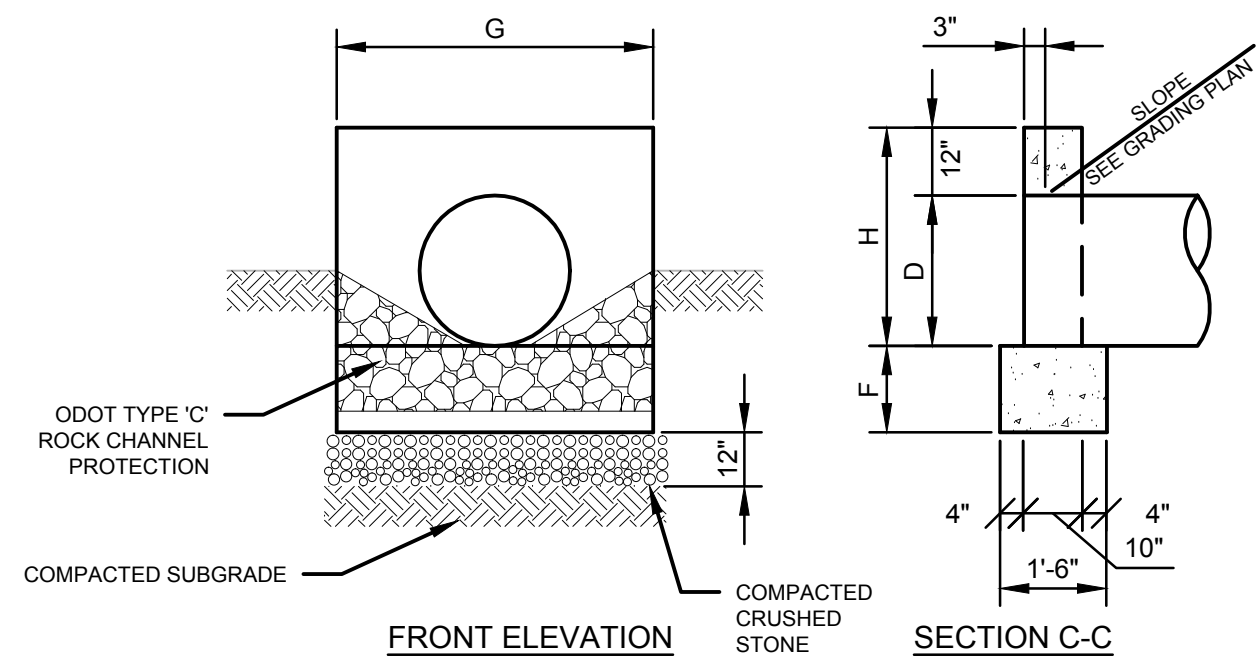
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**CLEANOUT DETAIL  
WITH CONCRETE PAD**

NOT TO SCALE



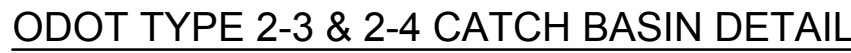
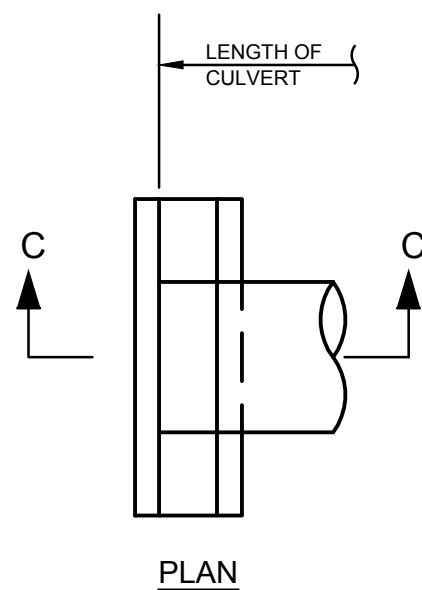
NOTES:

1.) USE DIMENSIONS FOR 18" OPENING FOR PIPES LESS THAN 18".

2.) USE PRECAST CONCRETE HEADWALL.

2.) LOCATION: HW #15

## CONCRETE FULL HEIGHT PRECAST HEADWALL



\* GRADE RINGS SHALL BE USED ON SANITARY SEWERS

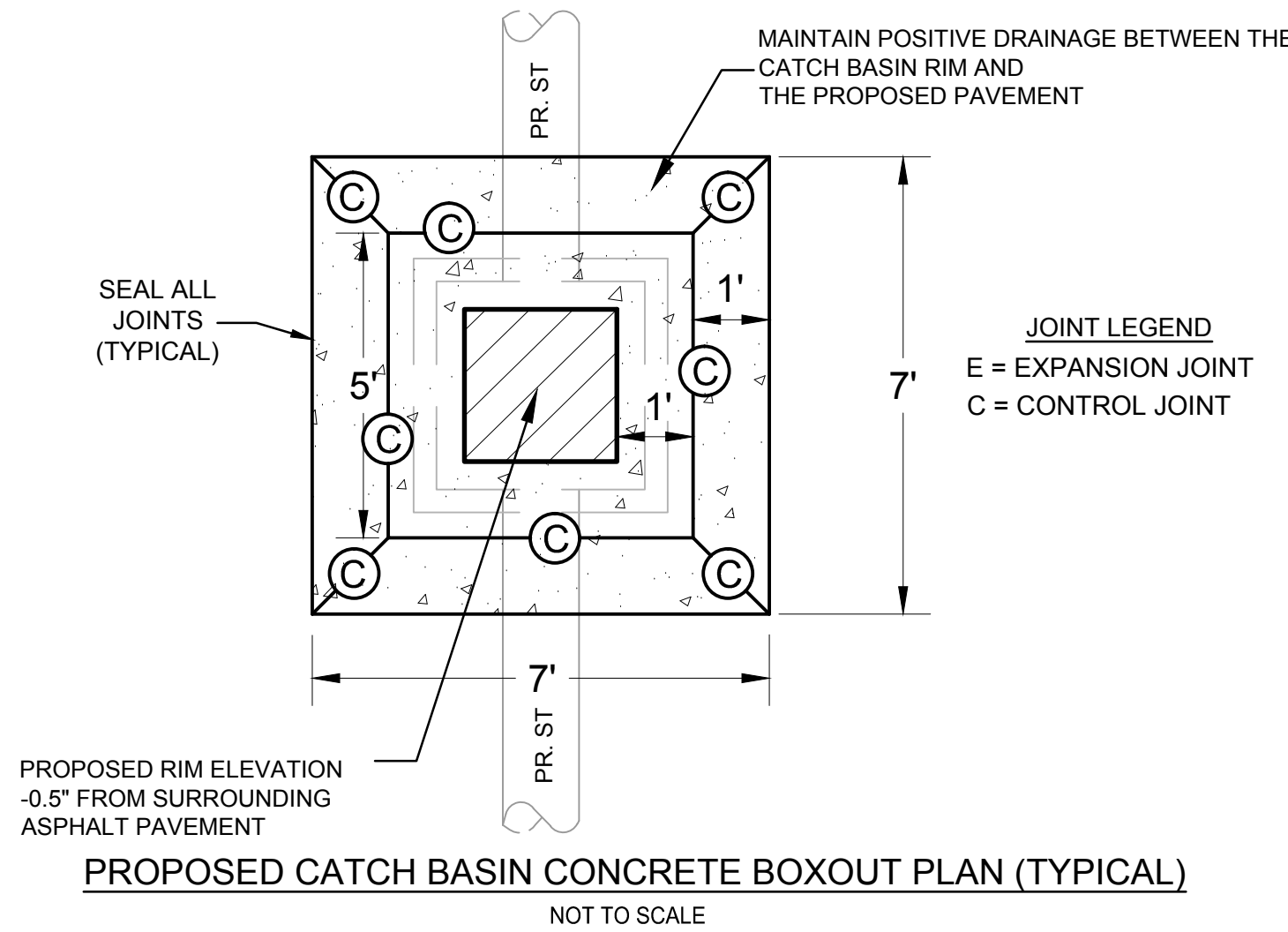


SANITARY MANHOLE #1:  
EJIW 1040 TYPE A SOLID COVER WITH "SANITARY"  
STAMPED INTO THE COVER.  
FRAME AND COVER SHALL BE WATER TIGHT.



- 1.) PREMIUM FILL MATERIALS SHALL CONSIST OF COARSE INTERLOCKING AGGREGATE No. 6, 67, 7, 78 OR 8 AND SHALL BE PLACED IN ALL LOCATIONS UNDER OR WITHIN TWO (2) FEET OF PAVEMENT AND WITHIN TWO (2) FEET OF BUILDINGS.
- 2.) COMMON FILL MATERIAL MAY BE USED IN OTHER AREAS.
- 3.) PIPE COVER SHALL CONSIST OF COARSE INTERLOCKING AGGREGATE No. 6, 67, 7, 78 OR 8.
- 4.) BEDDING SHALL CONSIST OF COARSE INTERLOCKING AGGREGATE No. 6, 67, 68, 7, 78 OR 8.

TYPICAL TRENCH DETAIL  
NOT TO SCALE



CATCH BASIN SIZE	OUTLET PIPE SIZE
2-3	12" to 33"
2-4	36" to 42"

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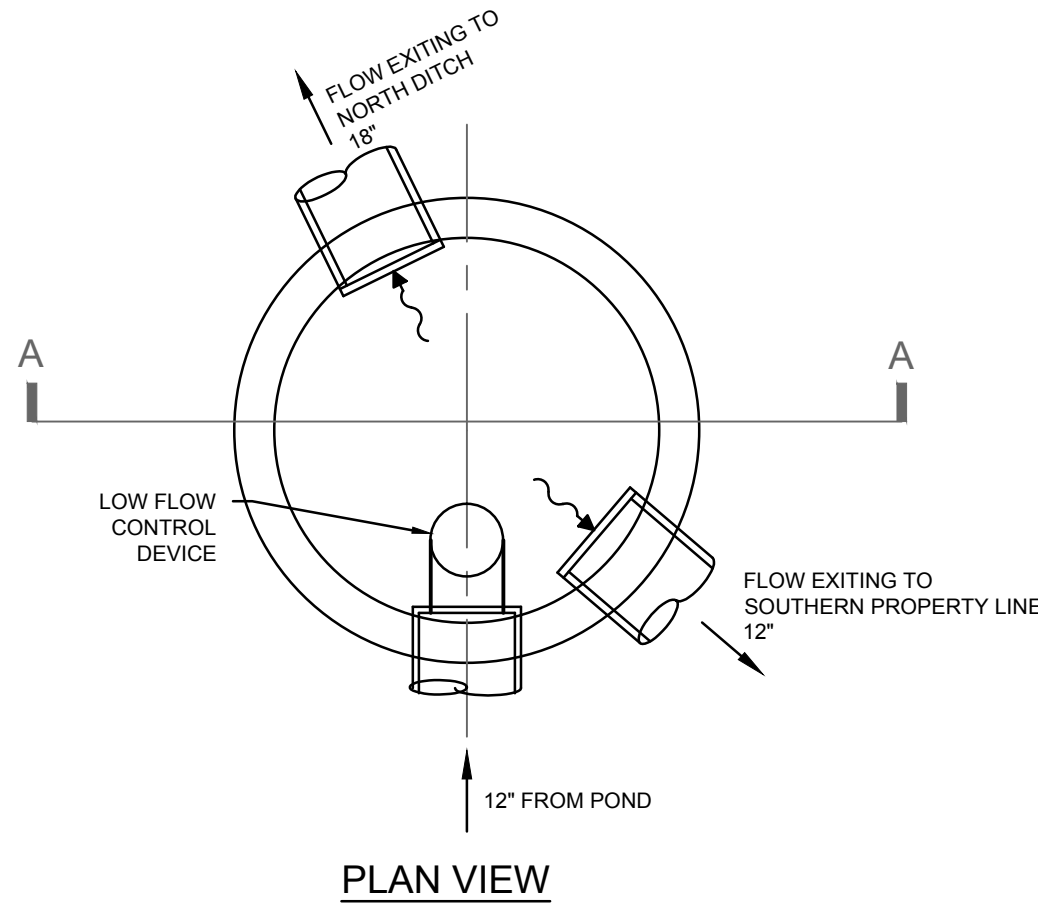
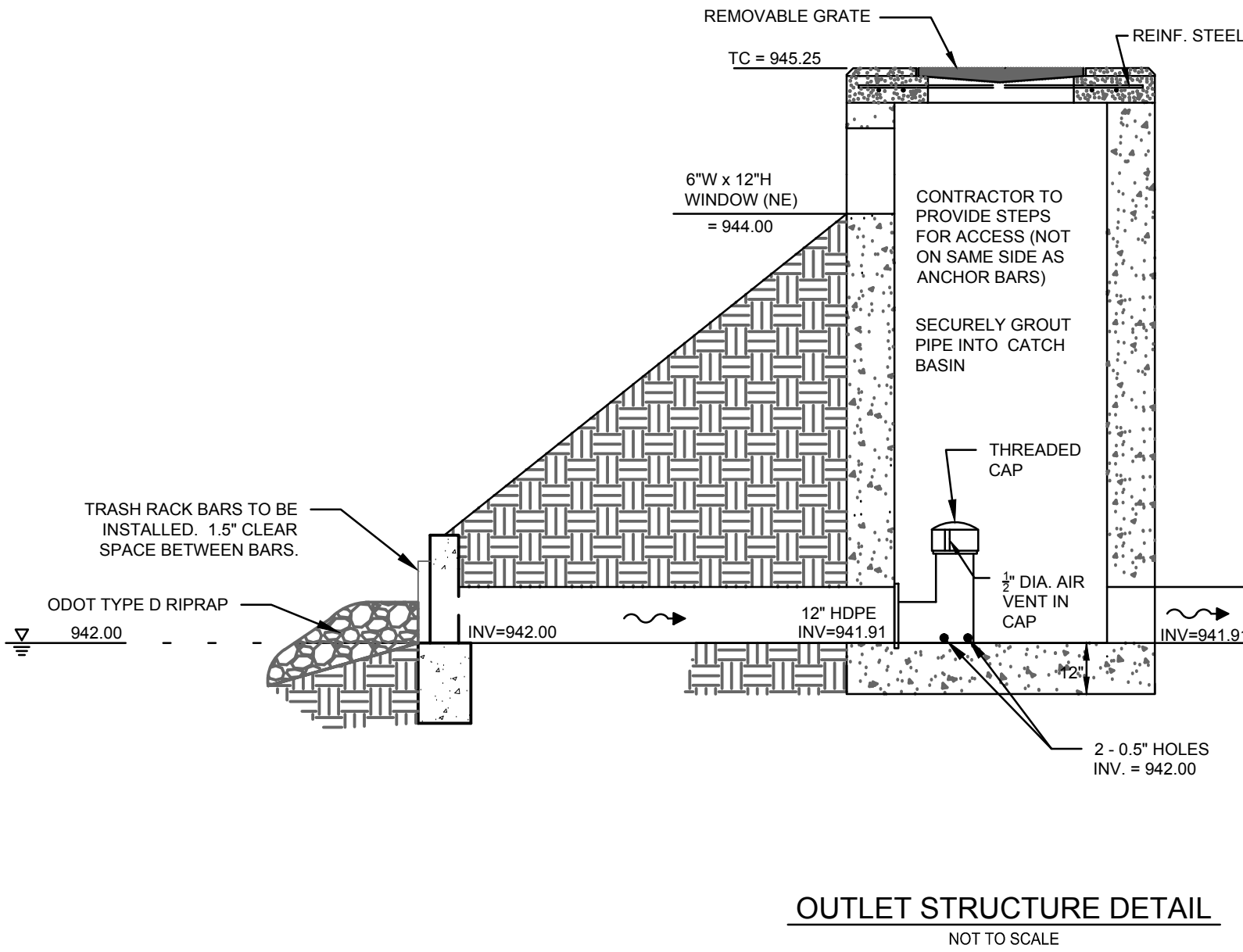
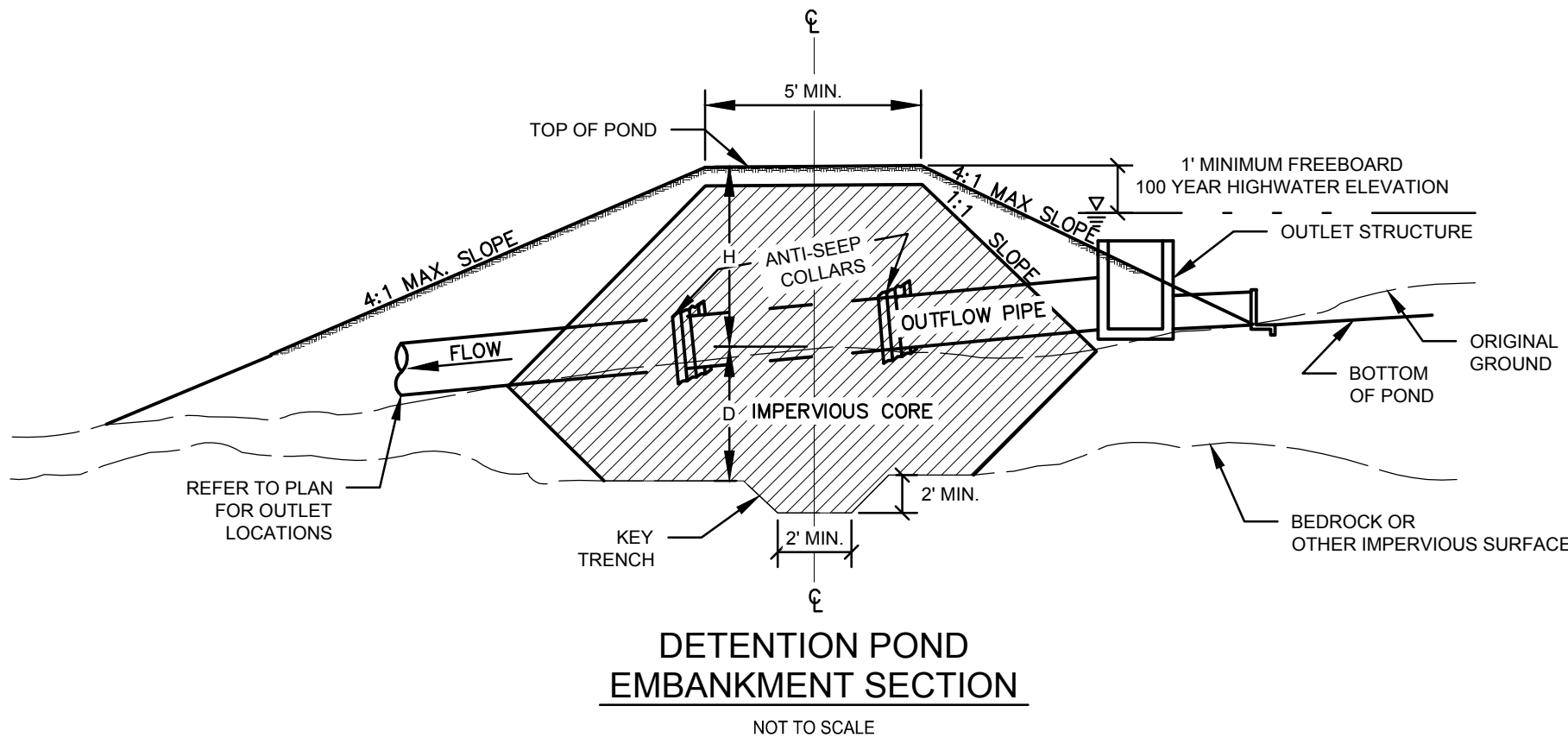
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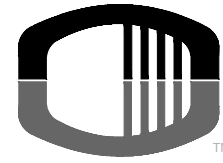
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NOTES

- 1.) IMPERVIOUS CORE:  
A.) USE CLAY OR OTHER IMPERVIOUS MATERIALS.  
B.) PLACE MATERIAL IN 8" LAYERS COMPACTED TO 95% STANDARD PROCTOR.  
C.) DEPTH "D" MUST BE TO IMPERVIOUS MATERIAL, OR TO MINIMUM DEPTH EQUAL TO "H".
- 2.) EXCAVATE EMERGENCY SPILLWAYS IN NATURAL GROUND OR PROVIDE CONCRETE SPILLWAY IN FILL AREA.
- 3.) PROVIDE ANTI-SEEP COLLARS.
- 4.) MAXIMUM HEIGHT OF POND, "H", IS 8'.
- 5.) PROVIDE DOCUMENTATION FOR CITY APPROVAL TO JUSTIFY ANY VARIANCES FROM THIS DETAIL.



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