City of Columbus

Department of Public Service
Division of Design and Construction

Capital Improvement Plan (CIP) Sample Plan Sheets

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\01_01 COVER SHEET.dwg

OUTSIDE EDGE OF SHEET

INSIDE BORDER

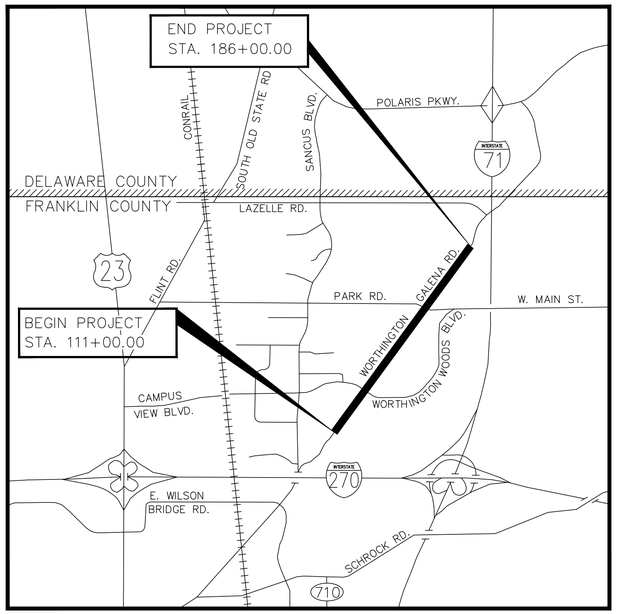
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF DESIGN AND CONSTRUCTION

PROJECT DESIGNATION (WHERE APPLICABLE)

IMPROVEMENTS OF NAME OF STREET

FROM XX' EAST OF XXXX ST.
TO XX' WEST OF XXXX ST.

← PROJECT NAME



LOCATION MAP

P.O.B. = LATITUDE: 40° 06' 54" N LONGITUDE: 82° 59' 34" W

SCALE IN MILES

0 1/2 1 2

PORTION\S TO BE IMPROVED: ▬▬▬

DESIGN DESIGNATION DATA (WHEN APPLICABLE)

CURRENT ADT (YYYY).....
DESIGN YEAR ADT (YYYY).....
DESIGN HOURLY VOLUME (YYYY).....
DIRECTIONAL DISTRIBUTION.....
TRUCKS (24 HOUR B&C).....
DESIGN SPEED.....
LEGAL SPEED.....
DESIGN FUNCTIONAL CLASSIFICATION.....

DESIGN EXCEPTION.....

THE CITY OF COLUMBUS SAMPLE PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE INTENDED TO BE USED AS A GUIDE FOR PLAN SHEET LAYOUT AND FORMAT IN CONSTRUCTION PLANS FOR THE CITY OF COLUMBUS. THE SET OF SAMPLE PLAN SHEETS IS A COLLECTION OF INDIVIDUAL SHEETS TYPES AND SHOULD NOT BE CONSIDERED, OR USED, AS SINGLE, COORDINATED PLAN. THE EXAMPLES SHOWN DO NOT NECESSARILY REPRESENT A PREFERRED DESIGN

IN CASES WHERE THE INFORMATION SHOWN ON SAMPLE PLAN IS IN CONFLICT WITH, OR CONTRADICTORY TO, POLICIES OR PRACTICES CONTAINED IN THE GENERAL DESIGN REQUIREMENTS (CIP), CIP CHECKLIST, CMSC, TRAFFIC SIGNAL DESIGN MANUAL OR STANDARD CONSTRUCTION DRAWINGS, THE POLICIES OR PRACTICES WILL SUPERSEDE ANY CONFLICTING SAMPLE PLAN SHEET INFORMATION

INDEX OF SHEETS
(EXAMPLE BELOW)

TITLE SHEET ..... #
SCHEMATIC PLAN ..... #
TYPICAL SECTIONS ..... #
GENERAL NOTES ..... #
MAINTENANCE OF TRAFFIC (NOTES AND PLAN DETAILS) ..... #
GENERAL SUMMARY ..... #
CALCULATIONS ..... #
* POST-CONSTRUCTION STORM WATER POLLUTION CONTROL FACILITIES ..... #
STORM WATER POLLUTION PREVENTION PLAN ..... #
** PLAN AND PROFILE (INCLUDING SUB-SUMMARIES) ..... #
CROSS SECTIONS ..... #
DETAILS ..... #
STORM SEWER PROFILES & COORDINATE DATA ..... #
WATERLINE PROFILES & COORDINATE DATA ..... #
PAVEMENT MARKING AND SIGNING ..... #
TRAFFIC SIGNAL AND TRAFFIC SIGNAL INTERCONNECT ..... #
LIGHTING ..... #
LANDSCAPING ..... #
STRUCTURES ..... #
RIGHT-OF-WAY ..... #

* NOTE:
ALL CIP "E" PLANS MUST SHOW THIS LINE IN INDEX TABLE AND INDICATE SHEET NUMBER WHERE THIS IS LOCATED IN THE PLANS.

** NOTE:
SUB-SUMMARIES SHOULD BE LOCATED ON OR IMMEDIATELY AFTER THE APPROPRIATE PLAN & PROFILE SHEET.

SHOW A COMPLETE LISTING OF ALL ANTICIPATED PLAN SECTIONS WITH EACH SUBMITTAL. IF THAT PLAN SECTION IS NOT INCLUDED WITH THE SUBMITTAL THEN LEAVE THE SHEET NUMBER BLANK.

X/X/XX = APPROVAL DATE

COLUMBUS STANDARD CONSTRUCTION DRAWINGS							
AA-S103	X/X/XX	AA-S127	X/X/XX	1441	X/X/XX	2203	X/X/XX	L-8502	X/X/XX
AA-S106	X/X/XX			2010	X/X/XX			L-7102	X/X/XX
AA-S107	X/X/XX			2160	X/X/XX				
AA-S119	X/X/XX			2166	X/X/XX				
AA-S125	X/X/XX			2201	X/X/XX				
AA-S126	X/X/XX			2202	X/X/XX				

COLUMBUS SUPPLEMENTAL SPECIFICATIONS	
SS-1100	X/X/XX
SS-1551	X/X/XX
SS-1630	X/X/XX

ODOT STANDARD CONSTRUCTION DRAWINGS			
MT-97.10	X/X/XX	TC-41.20	X/X/XX
MT-97.11	X/X/XX	TC-42.20	X/X/XX
BP-3.1	X/X/XX		

CONSULTING ENGINEER'S FIRM LOGO

ENGINEER'S SEAL

TRAFFIC SIGNAL ENGINEER'S SEAL (IF APPLICABLE)

REGISTERED ENGINEER DATE

REGISTERED ENGINEER DATE

REVISED 11/1/17

PROJECT DESCRIPTION

NORTH ARROW LOCATION

EARTH DISTURBED AREA

PLAN SCALE REFERENCE

TOTAL ESTIMATED DISTURBED AREA
PRE-CONSTRUCTION IMPERVIOUS AREA
POST-CONSTRUCTION IMPERVIOUS AREA

2012 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2012 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

CITY OF COLUMBUS APPROVALS

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DESIGN SECTION ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION DATE

ADMINISTRATOR, DIVISION OF POWER DATE

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE

ADMINISTRATOR, DIVISION OF WATER DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE

FIRE PREVENTION BUREAU, DIVISION OF FIRE DATE

ENGINEERING SUPERVISOR, DEPARTMENT OF TECHNOLOGY DATE

DIRECTOR, DEPARTMENT OF RECREATION AND PARKS DATE

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION DATE

DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE

REV NO	REVISION DESCRIPTION	SHEET(S)	INITIAL	DATE

OHIO Utilities Protection SERVICE
Call Before You Dig
800-362-2764 or 8-1-1
www.oups.org

DURING PLAN REVIEW PHASE, PROVIDE
STAGE ___ REVIEW, DATE ___

Drawer Number to be placed on every plan sheet.
Assigned by City of Columbus Division of Design and Construction
Text height = 0.24"
Style = Arial (Bold)

Either for Page Numbering Style

XXXX - E

1/74

1/74

NORTH ARROW LOCATION

PLAN SCALE REFERENCE
0 10 20 30 40
HORIZONTAL SCALE IN FEET

CITY 6+6 NUMBER (ADD ODOT PID WHEN APPLICABLE)

TITLE SHEET

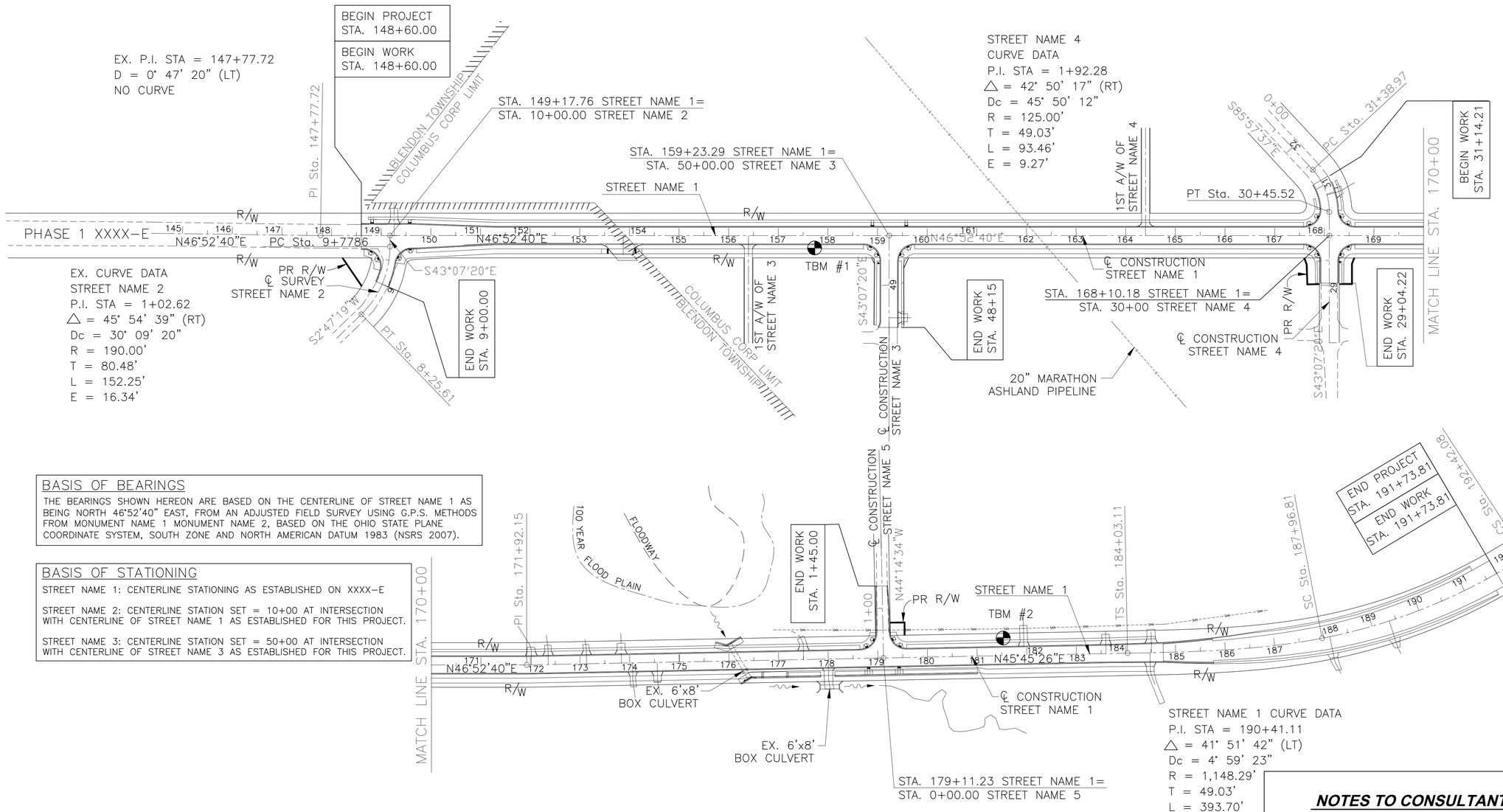
PROJECT NAME

2" 1/2" 1" 1/2" 1/2"

OUTSIDE EDGE OF SHEET

INSIDE BORDER

STANDARD E-PLAN TITLE SHEET SIZE: 22" x 34"



BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF STREET NAME 1 AS BEING NORTH 46°52'40" EAST, FROM AN ADJUSTED FIELD SURVEY USING G.P.S. METHODS FROM MONUMENT NAME 1 MONUMENT NAME 2, BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE AND NORTH AMERICAN DATUM 1983 (NSRS 2007).

BASIS OF STATIONING

STREET NAME 1: CENTERLINE STATIONING AS ESTABLISHED ON XXXX-E

STREET NAME 2: CENTERLINE STATION SET = 10+00 AT INTERSECTION WITH CENTERLINE OF STREET NAME 1 AS ESTABLISHED FOR THIS PROJECT.

STREET NAME 3: CENTERLINE STATION SET = 50+00 AT INTERSECTION WITH CENTERLINE OF STREET NAME 3 AS ESTABLISHED FOR THIS PROJECT.

VERTICAL CONTROL

VERTICAL CONTROL IS SET USING THE FRANKLIN COUNTY SOURCE MONUMENTS (BELOW), BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). *(DESCRIBE METHOD AND CORRECTION FACTOR)*

BENCHMARK	DESCRIPTION	NORTHING	EASTING	ELEVATION
SOURCE BENCHMARK	MONUMENT OFFICIAL NAME, DESCRIPTION	##########	##########	##########
SOURCE BENCHMARK	MONUMENT OFFICIAL NAME, DESCRIPTION	##########	##########	##########
TBM #1	NORTH FLANGE BOLT ON FIRE HYDRANT, STREET NAME, STATION & OFFSET	##########	##########	##########
TBM #2	SPIKE SET IN SOUTH SIDE OF POWER POLE. STREET NAME, STATION & OFFSET	##########	##########	##########

HORIZONTAL CONTROL

HORIZONTAL CONTROLS ARE TIED TO FRANKLIN COUNTY SURVEY SOURCE MONUMENTS (BELOW), BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (NSRS 2007). *(DESCRIBE METHOD AND CORRECTION FACTORS)*

CONTROL POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
SOURCE MONUMENT	MONUMENT (OFFICIAL) NAME 1, DESCRIPTION	##########	##########	##########
SOURCE MONUMENT	MONUMENT (OFFICIAL) NAME 2, DESCRIPTION	##########	##########	##########
# 1	SPIKE SET IN SOUTH SIDE OF POWER POLE. STREET NAME, STATION & OFFSET	##########	##########	##########
# 2	SPIKE SET IN SOUTH SIDE OF POWER POLE. STREET NAME, STATION & OFFSET	##########	##########	##########

NOTES TO CONSULTANTS

1.) *SHOW PROPERTY LINES*

2.) *SHOW PROPOSED R/W LINES*

HORIZ. SCALE
50 0 25
CALCULATED
CHECKED

SCHEMATIC PLAN

PROJECT NAME

X
XX

XXXX-E

REVISED 11/7/14

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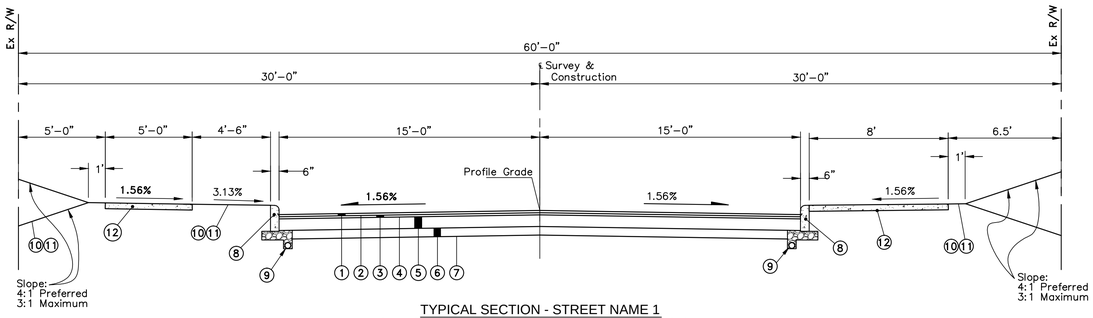
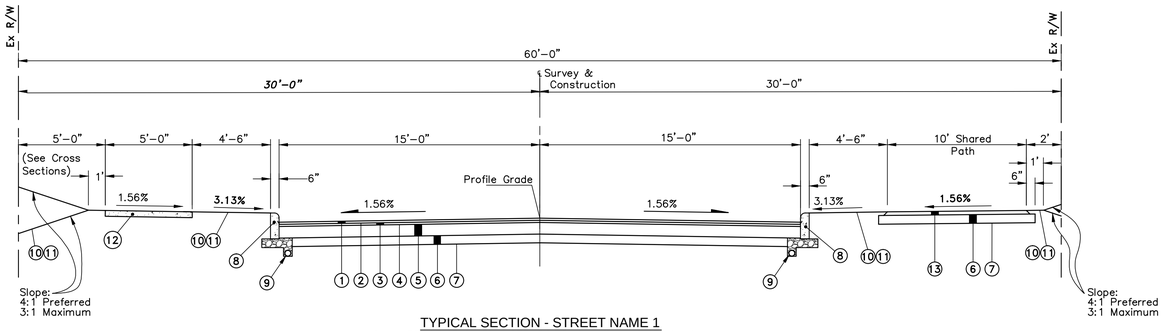
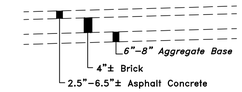


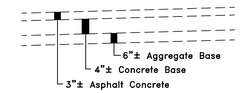
TYPICAL SECTION - STREET NAME 1
Sta. 133+90.00 to Sta. 135+13.48 Length = 123.48 ft
Not to Scale



TYPICAL SECTION - STREET NAME 1
Sta. 135+13.48 to Sta. 150+01.52, Length = 1,488.04 ft
Not to Scale



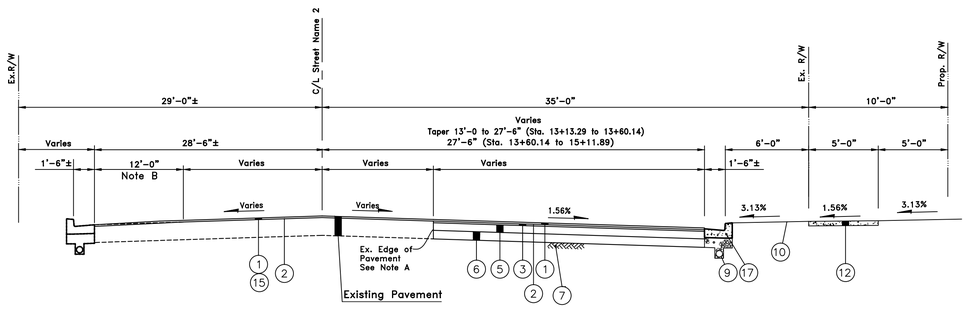
EXISTING PAVEMENT COMPOSTIION
STREET NAME 1
Sta. 133+00 to Sta. 139+50
Not to Scale



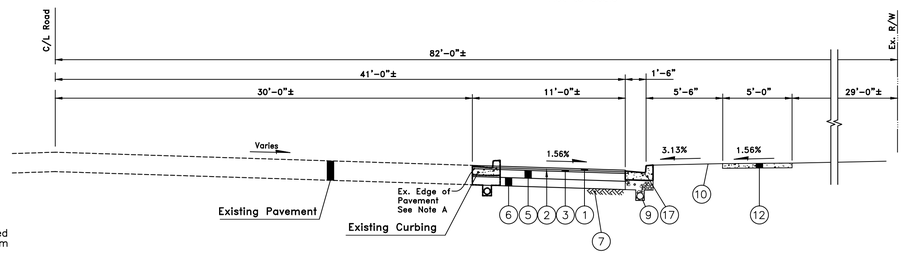
EXISTING PAVEMENT COMPOSITION
STREET NAME 1
Sta. 118+00 to Sta. 125+00
Not to Scale

LEGEND

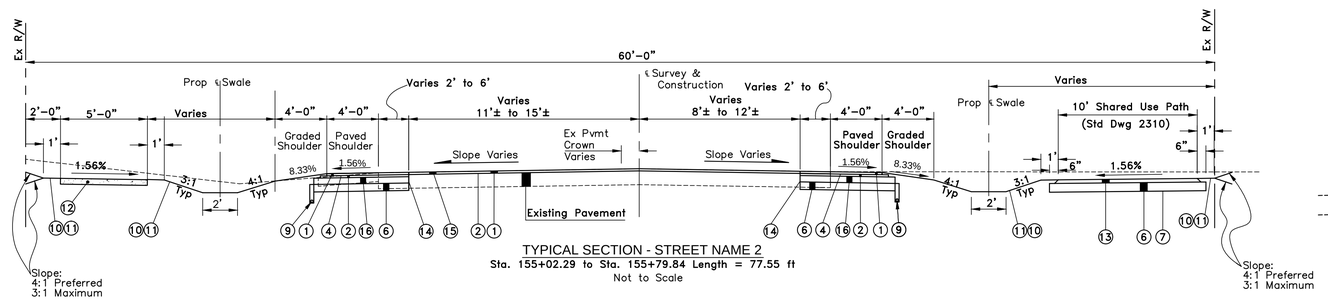
1. Item 448 – 1.5" Asphalt Concrete Surface Course (Medium Traffic), PG64-22
2. Item 407 – Tack Coat
3. Item 448 – 1.5" Asphalt Concrete Intermediate Course (Medium Traffic), PG64-22
4. Item 407 – Tack Coat
5. Item 305 – 8" Portland Cement Concrete Base
6. Item 304 – 6" Aggregate Base
7. Item 204 – Subgrade Compaction
8. Item 609 – Curb, Straight 18"
9. Item 605 – 4" Pipe Underdrain
10. Item 659 – Seeding and Mulching
11. Item 653 – Topsoil Furnished & Placed
12. Item 608 – 4"/8" Concrete Walk
13. Item 448 – 2.5" Surface course (Medium Traffic), PG64-22
14. Item 202 Saw cut pavement full depth to sound pavement
15. Item 254 – Pavement Planing, (Varies-1-1/2" Typ.)
16. Item 301 – 6" Asphalt Concrete Base (2 Lifts)
17. Item 609 – Combination Curb & Gutter



TYPICAL SECTION - STREET NAME 3
Sta. 13+13.29 to Sta. 15+11.89, Length = 198.60 ft
Not to Scale



TYPICAL SECTION - STREET NAME 4
Sta. 16+01.42 to Sta. 16+83.67, Length = 82.25 ft
Not to Scale



TYPICAL SECTION - STREET NAME 2
Sta. 155+02.29 to Sta. 155+79.84 Length = 77.55 ft
Not to Scale

NOTES TO CONSULTANTS

REFER TO TO CITY OF COLUMBUS STREET PAVEMENT DESIGN POLICIES AND STANDARD DRAWINGS. PAVEMENT DESIGN FOR WIDENING SHALL BE EQUAL OR GREATER THAN EXISTING PAVEMENT TO PROVIDE POSITIVE DRAINAGE OF SUBGRADE.

Note A:
Existing Pavement Edge to be Sawcut as Required to Provide a Smooth Clean Edge as Directed by the Engineer. (Maintain 2'-0" Min. Widening Section)

Note B:
Mill Existing Asphalt Pavement along the Existing Curb & Gutter to Provide a Minimum of 1 1/2" Depth for the Final Overlay Section.

CALCULATED | CHECKED

TYPICAL SECTIONS & DETAILS

PROJECT NAME

X/XX

XXXX-E

REVISED 3/28/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\04_01 TYPICAL SECTION.dwg (TypSect-1)

PLAN NOTES - REQUIRED [CIP]

REFERENCE SPECIFICATIONS-
THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2012 EDITION INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THE PLANS UNLESS NOTED OTHERWISE.

PERMITS-
WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE- PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE (614) 645-7497; FAX: (614) 645-1876;
EMAIL: colspermits@columbus.gov

UTILITIES-
THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLAN.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERAL AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

PRIOR TO EXCAVATION, THE CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362-2764. A 48-HOUR NOTICE SHALL BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.

LISTED BELOW ARE UTILITY COMPANIES THAT HAVE FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO OUPS.

***********__CONSULTANT:__ PLEASE LIST THE NAMES, ADDRESSES, AND PHONE NUMBERS OF THE UTILITY COMPANIES WITH FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO OUPS.***********

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 EAST 17TH AVENUE
COLUMBUS, OHIO 43219
OFFICE: (614) 645-7393

CITY OF COLUMBUS
SUPPORT SERVICES DIVISION-COMMUNICATIONS
4211 GROVES ROAD
COLUMBUS, OH 43232
TELEPHONE: (614) 724-7047
RADIO ROOM: (614) 724-4006

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 McKINLEY AVENUE
BUILDING C
COLUMBUS, OHIO 43222
CONTRACTOR LINE: (614) 645-7756

THE FOLLOWING UTILITIES MAY BE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND DO NOT SUBSCRIBE TO A REGISTERED UNDERGROUND PROTECTION SERVICE:

FIRM: XXXXX
ADDRESS: XXXX
CITY, ZIP CODE
TELEPHONE: (XXX) XXX-XXXX

EMERGENCY PROVISIONS-
THE CONTRACTOR SHALL PROVIDE TO THE CITY OF COLUMBUS PROJECT REPRESENTATIVE A LIST OF 24 HOUR EMERGENCY TELEPHONE NUMBERS (IN WRITING) PRIOR TO THE START OF CONSTRUCTION.

SECURING EXCAVATIONS & TRENCHES FOR NON-WORKING HOURS-
EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED OR BACKFILLED DURING NON-WORKING HOURS.

CONSTRUCTION LIMITS-
THE CONSTRUCTION LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE OF THESE CONSTRUCTION LIMITS.

MISCELLANEOUS WORK ITEMS-
THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE PROJECT IMPROVEMENT.

BENCHMARKS AND SURVEY MONUMENTS-
DO NOT DISTURB ANY FRANKLIN COUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 525-3026, PRIOR TO CONSTRUCTION , TO COORDINATE THE PROPER PROCEDURES FOR THE RESETTING, RELOCATION, OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

PLAN NOTES - INCLUDE ONLY IF APPLICABLE [CIP]

SAW CUTTING IS INCLUDED-
THE COST OF SAW CUTTING FOR THE REMOVAL OF PAVEMENT, CURB, WALKS, ETC. SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 202 WORK ITEMS. SAW CUTTING IS REQUIRED TO PROVIDE SMOOTH STRAIGHT EDGES FOR REMOVAL PURPOSES.

NEW CURB RADIUS-
INTERSECTION CORNERS OR HORIZONTAL CURVES SHALL MATCH THE EXISTING RADIUS UNLESS NOTED OTHER WISE.

COTA- SIGNS AND/OR BUS STOPS-
PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT SENIOR SERVICE PLANNER OF THE CENTRAL OHIO TRANSIT AUTHORITY (COTA) @ PH- (614) 308-4373 OR FAX- (614) 275-5933 TO COORDINATE PROPER BUS MOVEMENTS THROUGH OR AROUND THE JOB SITE DURING THE PROJECT. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE TEMPORARY RELOCATION OR REMOVAL OF COTA SIGNS AND/OR BUS STOP LOCATIONS.

COTA- BUS SHELTERS/PADS-
THE CONTRACTOR SHALL NOTIFY SENIOR SERVICE PLANNER OF COTA @ PH- (614) 308-4373 OR FAX- (614) 275-5933 A MINIMUM OF TWO WEEKS PRIOR TO THE REQUIRED REMOVAL OF A BUS SHELTER. COTA WILL DISASSEMBLE THE SHELTER AND THEN REINSTALL IT ONCE THE NEW CONCRETE SLAB IS IN PLACE. CONTRACTOR SHALL CONSTRUCT THE SLAB AS DIRECTED BY THE PLANS OR OTHER CONTRACT DOCUMENTS. ALL CONCRETE SLAB WORK SHALL BE PAID AS PER ITEM SPECIAL, REMOVE AND REPLACE BUS SHELTER SLAB, WITH THE CONTRACT UNIT PRICE PER EACH. THIS PAY ITEM SHALL INCLUDE ALL EXCAVATION AND REMOVAL WORK, EXPANSION JOINT MATERIAL, ITEM 608 - 6" CONCRETE WALK, AND ANY OTHER WORK AS REQUIRED OR DIRECTED BY THE ENGINEER.

GAS SERVICE VALVES ADJUSTED TO GRADE-
THE CONTRACTOR SHALL CONTACT COLUMBIA GAS (614) 460-2244 TO COORDINATE THE ADJUSTMENT OF GAS SERVICE VALVES.

COLUMBIA GAS DAMAGE PREVENTION CENTER-
FOR INFORMATION CONCERNING COLUMBIA GAS LINES OR EQUIPMENT, OR IF DAMAGE OCCURS TO GAS LINES OR EQUIPMENT, THE CONTRACTOR CAN CALL THE COLUMBIA GAS DAMAGE PREVENTION CENTER @ (614) 280-7372 OR TOLL FREE @ (866) 632-6243.

NEW PIPE CONNECTION TO AN EXISTING SEWER STRUCTURE-
WHERE THE PLANS PROVIDE FOR NEW PIPE TO BE CONNECTED TO AN EXISTING SEWER/STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN OPENING AT THE PROPER SIZE, ALIGNMENT, AND ELEVATION FOR THE CONNECTION. THE OPENING SHALL BE MADE LARGE ENOUGH TO RECEIVE AND JOIN THE PROPOSED PIPE PER CMSC ITEM 604.

NO DIRECT PAYMENT SHALL BE MADE. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 901-_ PIPE WITH TYPE _ BEDDING.

CONTINGENCY QUANTITIES-
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK SHOWN , LABELED, OR LISTED AS 'CONTINGENCY' OR REFERENCED BY PLAN NOTE TO BE USED 'AS DIRECTED BY THE ENGINEER,' UNLESS AUTHORIZED BY THE ENGINEER, OR A REPRESENTATIVE OF THE CITY OF COLUMBUS, DIVISION OF DESIGN AND CONSTRUCTION.

CONCRETE WALKS-
ALL EXISTING CONCRETE SIDEWALKS BEING REPLACED WITH NEW CONCRETE SIDEWALKS SHALL BE REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING 2300. INSTALL EXPANSION JOINT WHERE NEW CONCRETE ADJOINS EXISTING SIDEWALK.

ALL EXISTING CONCRETE SIDEWALKS NOT SCHEDULED FOR REPLACEMENT BUT BEING CROSSED BY THE INSTALLATION OF TRAFFIC ITEMS, ELECTRICAL CONDUIT, PIPING, ETC. SHALL BE FULLY REMOVED AT AN EXISTING JOINT AND REPLACED PER STANDARD DRAWING 2300 UNLESS NOTED OTHERWISE.
PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 608- CONCRETE WALK.

"AS PER PLAN" NOTES - INCLUDE ONLY IF APPLICABLE [CIP]

AN 'AS PER PLAN' ITEM IS A STANDARD PAY ITEM WHOSE REQUIREMENTS NEED TO BE MODIFIED FROM THAT WHICH IS DEFINED IN THE CMSC OR SUPPLEMENTAL SPECIFICATIONS. EACH 'AS PER PLAN' ITEM SHALL HAVE A CORRESPONDING PLAN NOTE(S) OR PLAN DETAIL(S) OR COMBINATION. CLEARLY SPECIFY THE DEVIATIONS FROM THE STANDARD ITEM IF AN ITEM IS 'AS PER PLAN.' THE 'AS PER PLAN' TEXT SHALL BE INSERTED AT THE END OF THE ITEM DESCRIPTION.

EXAMPLES:

WALK REMOVED 'AS PER PLAN'
THE EXISTING SIDEWALK SHALL BE REMOVED IN ACCORDANCE WITH THE PROPOSED SIDEWALK DETAILS. REMOVAL SHALL BE IN CONFORMANCE WITH CMSC SECTION 202. REFERENCE THE PLANS FOR LOCATIONS. THICKNESS' OF EXISTING WALKS VARY FROM 4" TO 8". NO SEPARATE PAYMENT SHALL BE MADE FOR REMOVAL OF THE VARIOUS THICKNESS' OF THE WALKS ENCOUNTERED. ANY SAW CUTTING NECESSARY TO REMOVE SIDEWALKS SHALL BE INCLUDED. PAYMENT SHALL BE PER SQUARE FOOT AND SHALL INCLUDE ALL NECESSARY TOOLS, LABOR, AND MATERIALS.

PAVEMENT PLANING 'AS PER PLAN'
UNDER THIS ITEM, ASPHALT SHALL BE MILLED FROM DESIGNATED STREETS TO A MINIMUM 1" DEPTH (TYPICAL 1.5"), OR AS INDICATED WITHIN THESE PLANS. PLANING DEPTHS INDICATED MAY BE ADJUSTED IN THE FIELD AT THE ENGINEER'S DISCRETION. INCREASED OR DECREASED PAVEMENT PLANING THICKNESS SHALL BE PERFORMED AT NO ADDITIONAL COST. ALL STREET PLANING SHALL MAINTAIN THE EXISTING CROWN. IF THE CROWN IS REMOVED AS A RESULT OF THE CONTRACTOR'S ERROR OR WITHOUT THE ENGINEER'S PRIOR APPROVAL, NO ADDITIONAL ASPHALT ABOVE THE PLAN QUANTITY FOR EACH SHEET SHALL BE PAID.

THE CONTRACTOR SHALL LOCATE ALL EXISTING LOOP DETECTORS PRIOR TO PLANING. IN THE EVENT A LEAD-IN CABLE IS DAMAGED, THE CONTRACTOR SHALL REPAIR. NO SEPARATE PAYMENT SHALL BE MADE FOR LOOP DETECTOR REPAIRS.

BRICKS REMOVED, SALVAGED AND DELIVERED (S.Y.)
REMOVAL: CAREFULLY REMOVE ALL BRICKS AS INDICATED FOR REMOVAL WITHOUT UNNECESSARY DAMAGE AND CLEANED FOR RE-USE. INCLUDE THE REMOVAL AND DISPOSAL OF THE SAND SETTING BED.
SALVAGE: STACK ALL UNDAMAGED AND CLEANED BRICKS ON PALLETS AND SECURELY WRAP, FASTEN OR BOX IN PALLETS. STACK BRICKS NO MORE THAN EIGHT (8) LAYERS HIGH.
DELIVERY: TRANSPORT ALL SALVAGED BRICKS TO THE CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICE 25TH AVE. MAINTENANCE YARD. CONTRACTOR SHALL CALL THE MAINTENANCE YARD MANAGER AT (614) 645-8120 AT LEAST TWO WEEKS IN ADVANCE TO MAKE ARRANGEMENTS FOR DELIVERY. PAYMENT FOR THIS WORK SHALL BE MADE AFTER THE UNDAMAGED BRICK HAS BEEN DELIVERED. INCLUDE IN THE COST ALL WORK REQUIRED TO REMOVE, CLEAN, SALVAGE, AND DELIVER BRICK AS BID PRICE FOR ITEM 202 - BRICK REMOVED FOR STORAGE, AS PER PLAN - SY.

CALCULATED ABC
CHECKED ABC

GENERAL NOTES

PROJECT NAME

REVISED 4/1/16

XXXX-E

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'ITEM SPECIAL' NOTES - INCLUDE ONLY IF APPLICABLE

A 'SPECIAL' ITEM IS AN ITEM THAT DOES NOT EXIST IN THE STANDARD DRAWINGS, THE CMSC, OR SUPPLEMENTAL SPECIFICATIONS. IT SHALL BE CREATED BY MEANS OF CORRESPONDING PLAN NOTES, PLAN DETAILS, OR A COMBINATION THEREOF WHICH CLEARLY SPECIFIES ALL ASPECTS OF THE ITEM. IF AN ITEM IS A 'SPECIAL' THE WORD 'SPECIAL' SHALL BE INSERTED IN THE ITEM COLUMN.

EXAMPLES:

STONE CURB TO BE REMOVED AND SALVAGED
THE CONTRACTOR SHALL REMOVE, SALVAGE, AND DELIVER TO THE CITY OF COLUMBUS THE STONE (SANDSTONE, GRANITE) CURBING FROM THE EXISTING STREETS AS DIRECTED BY THE PLAN. THE CURB SECTIONS SHOWN ON THE PLANS TO BE SALVAGED SHALL BE CAREFULLY REMOVED WITHOUT NECESSARY DAMAGE AND CLEANED FOR RE-USE. STRAIGHT CURB SECTIONS TO BE SALVAGED SHALL BE AT LEAST FOUR FEET IN LENGTH. CURVED SECTIONS OF ANY LENGTH SHALL BE SALVAGED. ALL CLEANED CURB SECTIONS SHALL BE STACKED (NO MORE THAN FOUR HIGH) AND SECURELY FASTENED OR BOXED ONTO PALLETS.

WHEN THE CURBING HAS BEEN SECURED ONTO PALLETS, THE CONTRACTOR SHALL TRANSPORT IT TO THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - 25TH AVE. STREET MAINTENANCE YARD. THE CONTRACTOR SHALL CALL THE MAINTENANCE YARD MANAGER @ (614) 645-8120 AT LEAST TWO WEEKS IN ADVANCE TO MAKE ARRANGEMENTS FOR DELIVERY. PAYMENT FOR THIS WORK SHALL BE MADE AFTER THE CURBING HAS BEEN DELIVERED TO THE 25TH AVE MAINTENANCE YARD.

THE COST FOR ALL WORK REQUIRED TO REMOVE, CLEAN, SALVAGE, AND DELIVER CURBING SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SPECIAL - CURB REMOVED FOR STORAGE - L.F.

ASPHALT CONCRETE PATCHING
THIS ITEM IS TO BE USED AS DIRECTED BY THE ENGINEER, WHEREVER AND WHENEVER IT BECOMES NECESSARY, IN THE OPINION OF THE ENGINEER, TO ALLEVIATE HAZARDOUS SITUATIONS, SUCH AS MANHOLE CASTINGS, VALVE CASTINGS, AND OTHER HAZARDOUS CONDITIONS THAT MAY EXIST. EACH SEPARATE AND DISTINCT AREA WHICH REQUIRES THIS ITEM WILL BE PAID AS
ITEM SPECIAL - ASPHALT CONCRETE PATCHING - CY.

INCLUDE PROJECT SPECIFIC NOTES FOR PLANS AS APPLICABLE

A PROJECT SPECIFIC NOTE IS A 'CUSTOM' NOTE THAT IS UNIQUE TO EACH INDIVIDUAL PLAN. IT IS TYPICALLY USED TO CONVEY INFORMATION AND/OR DETAIL CONCERNING WORK ASSOCIATED WITH THE PROJECT.

EXAMPLE:

SOILS INVESTIGATION
GEOTECHNICAL REPORTS HAVE BEEN PREPARED FOR THIS PROJECT. COPIES OF THESE REPORTS MAY BE OBTAINED FROM THE DIVISION OF DESIGN AND CONSTRUCTION.

INCLUDE OTHER AGENCY NOTES FOR PLANS AS APPLICABLE

POWER

THE DIVISION OF POWER HAS (**PRIMARY OR STREET LIGHTING OR SECONDARY**) IN THE PROJECT
AREA. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 1(800) 362-2764 FORTY EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOP DISPATCH OFFICE NUMBER IS: (614) 645-7627 (VOICE)

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S (**STREET LIGHTING SYSTEM FOR STREET LIGHTING**) OR (**ELECTRICAL FACILITIES FOR PRIMARY**) IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS - CITY OF COLUMBUS (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREET LIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM, MIS-95 COPIES OF WHICH ARE AVAILABLE FROM DOP IF YOU HAVE ANY QUESTIONS, CALL SCOTT WOLFE AT (614) 724-4351 OR CHRIS VOGEL AT (614) 645-6963.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

WATER

LEGEND

EXISTING CONDITIONS

- CENTERLINE ROAD / DRIVE
- EDGE OF PAVEMENT
- CURB
- BERM
- ASPHALT OR CONCRETE DRIVE / WALK
- FENCE
- GUARDRAIL
- RIGHT-OF-WAY (EX R/W)
- PROPERTY LINE (P/L)
- LOT LINE
- STORM (ST)
- SANITARY (SAN)
- WATER (W)
- DITCH
- UNDERGROUND GAS (GAS)
- UNDERGROUND TELEPHONE (UGT)
- UNDERGROUND ELECTRIC (UGE)
- OVERHEAD ELECTRIC (OHE)
- UTILITY EASEMENT (SPECIFY TYPE) (EX U)
- TREE LINE
- OVERHEAD TELEPHONE (OHT)
- OVERHEAD FIBER OPTIC (OHFO)
- SECTION LINE
- RAILROAD
- SIGNS
- MUNICIPAL BOUNDARY (CITY OF COLUMBUS / CITY OF DUBLIN)
- COMBINATION CURB & GUTTER
- CONCRETE WALL
- STONE WALL
- ROCK
- TREES
- BUSHES
- STUMP
- CONCRETE PAD
- WOOD POST
- POST / BOLLARD
- FLAG POLE
- PARKING BLOCK
- BIRDBATH
- HANDRAIL
- STEPS
- CATCH BASIN
- CURB INLET MANHOLE
- STORM MANHOLE
- CURB INLET
- BUILDING
- CANOPY
- TREE (TBR)

EXISTING UTILITY SYMBOLS

GUY ANCHOR · MAILBOX (MB) · SIGNAL POLE · SANITARY MANHOLE (S) · TELEPHONE PULL BOX (T)
FIRE HYDRANT · WATER VALVE · PULL BOX (PB) · TRAFFIC SIGNAL CONTROL BOX (TSC)
GAS VALVE (G) · CLEAN OUT (CO) · WATER METER (W) · TELEPHONE MANHOLE (T) · LIGHT POLE
TELEPHONE ELECTRIC POLE · ELECTRIC POLE · ELECTRIC LIGHT POLE · TELEPHONE POLE

SURVEY SYMBOLS

- IRON PIN/RAILROAD SPIKE FND.
- RIGHT-OF-WAY MON. FND. (M)
- MAG/PK NAIL SET (Ø)
- MAG/PK NAIL FND.
- BENCHMARK
- SOIL BORING (B-1)
- RAILROAD SPIKE SET
- IRON PIN SET

ABBREVIATIONS

1"WS.....1" WATER SERVICE
6"SS.....6" SANITARY SERVICE
1"GS.....1" GAS SERVICE
4"RD.....4" ROOF DRAIN
OHE.....OVERHEAD ELECTRIC
OHT.....OVERHEAD TELEPHONE
UGT.....UNDERGROUND TELEPHONE
CATV.....CABLE TELEVISION
(PA).....PREVIOUSLY ABANDONED
(DND).....DO NOT DISTURB
(TBA).....TO BE ABANDONED (SEE NOTE BELOW)
(TBR).....TO BE REMOVED
(TBRL).....TO BE RELOCATED
(RTG).....RECONSTRUCT TO GRADE
(ATG).....ADJUST TO GRADE
(ENC).....ENCROACHMENT TO REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER-IN-CHARGE
(ENC-TBR).....ENCROACHMENT TO BE REMOVED BY THIS PROJECT

PROPOSED LAYOUT

- CONSTRUCTION CENTERLINE
- CENTERLINE PROPOSED DRIVE
- CONSTRUCTION LIMITS
- EDGE OF PAVEMENT
- CURB
- BERM
- WALK/SHARED-USE-PATH
- RIGHT-OF-WAY (R/W)
- FENCE
- GUARDRAIL
- SANITARY (SAN)
- STORM (18" AND SMALLER) (ST)
- WATER (W)
- DITCH
- ASPHALT OR CONCRETE DRIVE
- TEMPORARY CONSTRUCTION EASEMENT (TMP)
- SEWER EASEMENT (SW)
- CHANNEL EASEMENT (CH)
- COMBINATION CURB & GUTTER
- STORM (24" AND LARGER) (24" STM)
- DETECTABLE WARNING
- PROPOSED FIRE HYDRANT
- WATER VALVE
- STM MH
- SAN MH
- CURB INLET
- CATCH BASIN

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CALCULATED | CHECKED ABC

GENERAL NOTES

PROJECT NAME

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10/04/16

TEMPORARY TRAFFIC CONTROL NOTES REQUIRED FOR CAPITAL IMPROVEMENT PROJECTS

A. TEMPORARY TRAFFIC CONTROL ITEMS

1. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO, 43216. **NOTE:** ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 CRASH TESTING GUIDELINES.
2. CONSTRUCTION OPERATIONS SHALL **NOT** BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.
3. THE CONTRACTOR SHALL GIVE ADVANCE NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT 645-6269 OR 645 5845, THE COLUMBUS PAVING THE WAY PROGRAM COORDINATOR AT 645-7283 OR 645 6016, OR pavingtheway@columbus.gov, AND THE PROJECT ENGINEER, INFORMING THEM OF ALL UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. NOTIFICATION SHALL INCLUDE, BUT NOT LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGES SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED:

TYPE OF CHANGE	ADVANCE NOTIFICATION NEEDED
DETOURS / ROAD CLOSURES	30-DAY NOTIFICATION PRIOR TO CLOSURE
LANE CLOSURE LASTING TWO WEEKS OR MORE	2-WEEKS
LANE CLOSURES LESS THAN TWO WEEKS	3-DAYS
LANE CLOSURE OF TWO DAYS OR LESS	1-DAY

   THE COLUMBUS PAVING THE WAY PROGRAM COORDINATOR SHALL BE SUPPLIED COPIES OF ALL NOTIFICATION LETTERS SENT TO AREA BUSINESSES AND RESIDENTS.

   THE COTA SENIOR SERVICE PLANNER SHALL BE CONTACTED 30 DAYS PRIOR TO ANY PLANNED CLOSURE ON ASSIGNED COTA ROUTES. ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.
4. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER FIGURES 6H-28 (TA-28) AND 6H-29 (TA-29) OF PART VI OF THE OMUTCD. ALL SIDEWALK DIVERSIONS AND TEMPORARY MID-BLOCK CROSSINGS SHALL BE PRE-APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR.
6. THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.
7. ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.
8. THE ROADWAY SHALL **NOT** BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROL ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROL ARE **STOP, YIELD**, **ONE-WAY**, **DO NOT ENTER, AND RESTRICTED TURN SIGNS.** OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
9. ITEM 614 - MAINTAINING TRAFFIC, LUMP SUM

   ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM ITEM 614.

   IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

- WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X-WALK LINES
- WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
- WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS DIRECTED BY THE PROJECT ENGINEER
- WHEN SHIFTING TRAFFIC LEFT OF CENTER, THROUGH A SIGNALIZED INTERSECTION, WITHOUT SHIFTING SIGNAL HEADS

   A FLAGGER SHALL BE UTILIZED TO ASSIST IN CONTROLLING TRAFFIC WHILE EQUIPMENT IS ENTERING OR EXITING AN INTERSECTION OR WORK ZONE. THE CONTRACTOR MAY UTILIZE HIS OWN OR LEO UNDER PAY ITEM 614 MAINTAINING TRAFFIC, LUMP SUM.

   FLAGGERS AND LEO'S SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H-10 (TA-10) IN THE OHIO MANUAL. PATROL CARS SHALL **NOT** BE USED IN FLAGGING OPERATIONS.

   IF THE CONTRACTOR WISHES TO UTILIZE LEOS' FOR TRAFFIC CONTROL OTHER THAN FOR THE REQUIRED IN THE PLANS, THEY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENT THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645-4795.

   LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT.LEO'S SHALL NOT HAVE THE AUTHORITY TO CHANGE, EDIT, OR MODIFY ANT MAINTENANCE OF TRAFFIC SCHEME WITHOUT THE PERMISSION OF THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER UNLESS AN EMERGENCY DEVELOPS.

   IF A SAFETY HAZARD DEVELOPS, A LEO MAY BE ASSIGNED BY THE COLUMBUS SAFETY AND SERVICES DIRECTOR AT THE CONTRACTOR'S EXPENSE.

ITEM 614 - LAW ENFORCEMENT OFFICER (LEO) WITH PATROL CAR, AS PER PLAN

IN ADDITION TO THE LEO AND FLAGGER HOURS INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR, AS PER PLAN - _____ HOURS

ITEM 614 - LAW ENFORCEMENT OFFICER (LEO) WITHOUT PATROL CAR, AS PER PLAN

IN ADDITION TO LEO AND FLAGGER HOURS INCLUDED IN THE ITEM 614 MAINTAINING TRAFFIC, LUMP SUM; THE FOLLOWING QUANTITIES HAVE BEEN CARRIED FORWARD THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE OF THE CITY OF COLUMBUS. THE CONTRACTOR SHALL BE PAID FOR THIS BID ITEM ONLY IF DIRECTED BY THE ENGINEER.

ITEM 614, LAW ENFORCEMENT OFFICER WITHOUT PATROL CAR, AS PER PLAN - _____ HOURS

TEMPORARY TRAFFIC CONTROL NOTES IF APPLICABLE FOR CAPITAL IMPROVEMENT PROJECTS

B. TEMPORARY TRAFFIC CONTROL ITEMS

1. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF ROADWAY. THE MESSAGE SHALL ADVISE THE MOTORISTS OF THE DATES, TIMES, AND DURATION OF THE CLOSURE. THE PCMS SHALL REMAIN IN PLACE FOR 7 DAYS AFTER THE START OF THE CLOSURE, OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER.
2. A TTC PLAN (TTCP) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE TTC COORDINATOR AT 645-6269 OR 645-5845 AT THE PRE-CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE BEGINNING OF WORK. COPIES OF THE APPROVED TTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON SITE ALONG WITH THE STREET CLOSURE / OCCUPANCY PERMIT.
3. TYPE C STEADY-BURN OR TYPE D 360-DEGREE STEADY BURN WARNING LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42" REFLECTORIZED CHANNELIZING DEVICES (CONES) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT 645-6269 OR 645-5845 PER ODOT STANDARDS.
4. A FLASHING ARROW PANEL (48" x 96"-TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL (OMUTCD).
5. ALL TRENCHES WITHIN THE ROAD RIGHT OF WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATES 11/15/2006 AND 2013 STD. DWG. 1441) DURING NON-WORKING HOURS.
6. ALL EXISTING TRAFFIC LANES SHALL BE OPEN TO TRAFFIC AT ALL TIMES ON:_____.
7. ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 6:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M., OR 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 6:00 P.M. IN THE COLUMBUS BUSINESS DISTRICT AREA, MONDAY THROUGH FRIDAY ON _____. ____ LANE (S) MAY BE CLOSED TO TRAFFIC DURING WORKING HOURS.
8. ONE-WAY _____ LANE (S) OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON _____.
9. TWO-WAY TWO-LANE (ONE-LANE EACH DIRECTION) SHALL BE MAINTAINED AT ALL TIMES BY USE OF EXISTING, PROPOSED, OR TEMPORARY PAVEMENT PER FIGURE 6H-32 TYPICAL APPLICATION 32 (TA-32) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
10. TWO-WAY ONE-LANE TRAFFIC MAY BE MAINTAIN DURING CONSTRUCTION OPERATIONS ON _____, PER FIGURE 6H-10 (TA-10) OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
11. _____ MAY BE CLOSED BETWEEN _____ AND _____ FOR A MAXIMUM OF _____ HOUR (S)/ DAY (S) BETWEEN THE HOURS OF _____ AND ____ PER FIGURE 6H-20 (TA-20) OF THE OMUTCD AND/OR APPROVED BY THE DEPARTMENT OF PUBLIC SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN PROVIDING A DETOUR INCLUDING THE REMOVAL AND REINSTALLATION OF ANY CONFLICTING TRAFFIC CONTROL AND/OR ANY NECESSARY TRAFFIC SIGNAL WORK.
12. A TEMPORARY DIVERSION SHALL BE PROVIDED AND MAINTAINED IN GOOD CONDITION ON _____ DURING THE PERIOD OF WORK. ALL SUCH DIVERSIONS SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL of UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
13. THE DEPARTMENT OF PUBLIC SERVICE WILL REMOVE OR COVER ALL PARKING METER HEADS PUT OUT OF SERVICE BY THIS CONTRACT. THERE IS A $60.00 CHARGE FOR THE REMOVAL AND RE-INSTALLATION OF EACH METER. IN ADDITION, A DAILY METER FEE WILL BE CHARGED FOR ALL ENFORCEMENT HOURS FOR EACH METER TAKEN OUT OF SERVICE. THESE CHARGES WILL BE COLLECTED FROM THE CONTRACTOR IN ADVANCE WITH THE ISSUANCE OF THE STREET OCCUPANCY / EXCAVATION PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICE'S PERMIT OFFICE. (645-7497) THE MANAGER OF PARKING SERVICES SUPPORT (645-7890) SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING SAT. SUN.,& HOLIDAYS) PRIOR TO THE BEGINNING OF WORK. CALL 645-8376 IF UNABLE TO MAKE CONTACT THROUGH THE PRIOR PHONE NUMBER.
14. TEMPORARY "EMERGENCY NO PARKING" SIGNS SHALL BE INSTALLED AT 50' INTERVALS C/C MINIMUM BY USE OF ANY OF THE FOLLOWING ITEMS: EXISTING SIGN POSTS, EXISTING UTILITY POLES, DRUMS AND/OR 42"CONES AND REMOVED BY THE CONTRACTOR IN AREAS WITH NO PARKING METERS. THE SIGNS SHALL HAVE THE INSTALLATION DATE, WORKING DATES, AND HOURS OF RESTRICTION SHOWN ON EACH SIGN. THESE SIGNS CAN BE OBTAINED FROM THE DEPARTMENT OF PUBLIC SERVICE'S PERMIT OFFICE. THE POLICE DIVISION REQUIRES THE "EMERGENCY NO PARKING" SIGNS TO BE POSTED A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY VEHICLES BEING TOWED. WITHIN TWENTY-FOUR (24) HOURS OF POSTING, THE CONTRACTOR SHALL SUPPLY THE DEPARTMENT OF PUBLIC SERVICE WITH A WRITTEN RECORD OF POSTED LOCATIONS (FAX 645-3298).
15. TRAFFIC OPERATIONS' PERSONNEL SHALL LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES. THE TRAFFIC OPERATIONS SHOP SHALL BE NOTIFIED 645-7393 (FAX 645-5967) AT LEAST FORTY-EIGHT (48) HOURS (EXCLUDING SATURDAY & SUNDAY) PRIOR TO THE BEGINNING OF ANY WORK WITH 450 FEET OF ANY SIGNALIZED INTERSECTION (S) OR WITHIN ANY POSTED AREA WHERE THE DEPARTMENT HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (645-6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISION OR POLE RELOCATIONS.
16. NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARMS OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT SIGNAL OPERATION PERSONNEL AT 645-0423 (CELL 419-4501) AT LEAST FORTY-EIGHT 48 HOURS (EXCLUDING SATURDAY & SUNDAY) PRIOR TO BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. IF UNABLE TO MAKE CONTACT THROUGH ABOVE NUMBERS, CALL 645-7393. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNERS' / CONTRACTING AGENCY'S EXPENSE.
17. SIGNAL CONDUIT CLEARANCE FROM ADJACENT UTILITIES SHALL BE MAINTAINED AT ALL TIMES, THE SIGNAL CONDUIT CLEARANCE TABLE CAN BE FOUND IN THE CITY OF COLUMBUS TRAFFIC SIGNAL DESIGN MANUAL TABLE 13.2, MINIMUM CONDUIT CLEARANCE.
18. WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATION PERSONNEL AT 645-0423 (CELL 451-4501) BETWEEN 7:00 A.M. AND 4:00 P.M., MONDAY THROUGH FRIDAY. IF UNABLE TO MAKE CONTACT THROUGH THE OTHER NUMBERS, CALL 645-7393.
19. THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY , NON-REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON-CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO THE CMS-614.11F, AND SHALL BE PAID FOR THROUGH THE 614-LUMP SUM.
20. WHENEVER YELLOW CENTERLINES OR TURN-LANE LINE ARE PAVED OVER, REMOVED, OR OTHERWISE UNSERVICEABLE, THE CONTRACTOR SHALL INSTALL CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS). TEMPORARY PAINT SHALL BE USED ON ALL MILLED SURFACES. TEMPORARY TAPE SHALL BE USED ON ALL FINAL COURSES OF ASPHALT. PAINT OR TAPE MAY BE USED ON ALL INTERMEDIATE COURSES OF ASPHALT. IF APPROVED BY THE ENGINEER, DRUMS WITH STEADY BURNING TYPE C OR TYPE D 360 DEGREE WARNING LIGHTS AND "KEEP RIGHT" SIGNS MAY BE SUBSTITUTED FOR CENTERLINE MARKINGS.
21. CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS) SHALL BE AS PER ITEM 614-WORK ZONE PAVEMENT MARKINGS AND SHALL BE PLACED WITH ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE (S). ALL STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING SHALL BE OF THE APPROPRIATE COLOR AND SPACED AT A MAXIMUM OF FORTY (40) FEET CENTER TO CENTER.

EXISTING PERMANENT TRAFFIC CONTROL NOTES REQUIRED FOR CAPITAL IMPROVEMENT PROJECTS

C. EXISTING PERMANENT TRAFFIC CONTROL ITEMS

1. ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.
3. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS, INCLUDING RAISED PAVEMENT MARKERS (RPM) SHOWN IN CONFLICT, REMOVED DUE TO CONSTRUCTION OR MAINTENANCE OF TRAFFIC SET UP, DESTROYED, OR RENDERED UNSERVICEABLE BY THE PROJECT ENGINEER OR THE PUBLIC SERVICE PAVEMENT MARKING MANAGER. ALL PAVING MARKING MATERIALS SHALL BE REPLACED **IN-LIKE KIND** IF NOT SHOWN IN THE PLAN OR PERMIT INCLUDING RAISED PAVEMENT MARKERS. ALL PAVEMENT MARKINGS SHALL BE REPLACED IN FULL . NO PARTIAL LENGTH OR SECTIONS OF PAVEMENT MARKINGS SHALL BE REPLACED WITHOUT REMOVING THE ENTIRE MARKING BY USE OF THE WATER BLAST METHOD. REMOVAL BY ABRASIVE WHEEL GRINDING SHALL ONLY BE APPROVED BY PUBLIC SERVICE PAVEMENT MARKING MANAGER.

EXISTING PERMANENT TRAFFIC CONTROL NOTES IF APPLICABLE FOR CAPITAL IMPROVEMENT PROJECTS

D. EXISTING PERMANENT TRAFFIC CONTROL ITEMS

1. ALL OVERHEAD CABLE, DOWN GUYS OR BACK GUYS SHALL NOT BLOCK ANY PORTION OF A TRAFFIC SIGNAL, TRAFFIC CONTROL SIGN, OR OTHER TRAFFIC CONTROL DEVICE SUCH THAT VISIBILITY OR OPERATION OF THE TRAFFIC CONTROL DEVICE IS IMPAIRED.
2. ALL PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS AS SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE CONTRACTOR AT THE PROJECTS EXPENSE. THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE INSTALLATION OF PERMANENT MARKING TO INSPECT AND APPROVE THE PAVEMENT MARKING LAYOUT PRIOR TO PLACING THE PERMANENT MARKINGS.
3. PERMANENT STRIPING OR CLASS I TEMPORARY STRIPING SHALL BE INSTALLED NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER THE FINAL PAVING COURSE IS COMPLETED. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE STRIPING CONTRACTOR TO INSURE THE PERMANENT STRIPING IS INSTALLED WITHIN THE FOURTEEN (14) CALENDAR DAY LIMIT.
4. IF THE DEPARTMENT OF PUBLIC SERVICE IS TO INSTALL PERMANENT STRIPING, THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE APPLICATION OF THE FINAL COURSE OF PAVEMENT.

EXISTING PERMANENT TRAFFIC CONTROL ITEMS CONTINUED, SEE NOTE #5 SHEET 2

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EXISTING PERMANENT TRAFFIC CONTROL NOTES IF APPLICABLE FOR CAPITAL IMPROVEMENT PROJECTS, CONTINUED.

D. EXISTING PERMANENT TRAFFIC CONTROL ITEMS

NOTE #5 INSTRUCTIONS: DO NOT PLACE IN PLAN

INSERT NOTE #5 WHEN; WORKING NEAR A LOCATION WHERE TRAFFIC LOOP DETECTION AND/OR ITS LEAD IN CABLES COULD BE INADVERTENTLY DAMAGED. CONTINGENCY ITEMS AND ESTIMATED QUANTITIES SHALL ONLY BE INCLUDED AS DIRECTED BY THE PLAN REVIEWER. LOOP DETECTION AND/OR ITS LEAD IN CABLES BEING DESTROYED OR ELSE RENDERED INOPERATIVE DUE TO TYPICAL CONSTRUCTION ACTIVITIES SHALL BE QUANTIFIED IN THE GENERAL SUMMARY AND SIGNAL SUMMARY AND SHOWN AS REMOVED AND REPLACED. NOTE # 5 IS NOT REQUIRED FOR THIS OPERATION UNLESS THE AFOREMENTIONED REQUIREMENT IS MET.

5. AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD IN CABLES THE CONTRACTOR SHALL REPLACE THEM. AT ANY LOCATION WHERE DETECTION IS CHANGED FROM MAG PROBE UNITS TO LOOP, THE CONTRACTOR SHALL REPLACE THE PROBE LEAD-IN WITH LOOP LEAD-IN CABLE. ALL REPAIRS TO DETECTION SHALL BE COMPLETED WITHIN 21 DAYS FROM DAMAGE TO DETECTION ON A PER INTERSECTION BASIS. IF THE 21 DAY REPAIR PERIOD CANNOT BE SATISFIED AT ANY LOCATION WHERE THE CONTRACTOR DAMAGES DETECTORS AND/OR THEIR LEAD-IN CABLES, THE CONTRACTOR, AT THE DIRECTION OF SIGNAL OPERATION PERSONNEL, MAY BE REQUIRED TO INSTALL A VERSICAM FLEX CAMERA SYSTEM OR TEMPORARY LOOP DETECTION. ANY CONTRACTOR FAILING TO COMPLY WITH THESE GUIDELINES SHALL BE SUBJECT TO PENALTY TO THE SUM OF $100.00 PER DAY FOR EACH DAY BEYOND THE 21 DAY PERIOD ON A PER INTERSECTION BASIS, UNTIL CONDITIONS ARE MET TO THE SATISFACTION OF SIGNAL OPERATIONS PERSONNEL. THIS PENALTY DEDUCTION SHALL BE SPECIFIC TO EACH SIGNALIZED INTERSECTION EFFECTED BY THIS PROJECT AND SEPARATE FROM ANY LIQUIDATED DAMAGES FOR THE PROJECT AS A WHOLE. THE WORK TO INSTALL THE DETECTION SHALL CONFORM TO ODOT STANDARD DRAWING TC-82.10 (DATED 4/29/02 OR LATER) AND TO THE CURRENT STATE OF OHIO CONSTRUCTION AND MATERIAL SPECIFICATIONS WITH THE FOLLOWING PROVISIONS.

A) THE CONTRACTOR SHALL PROVIDE THE DEPARTMENT OF PUBLIC SERVICE 'S INSPECTOR, PRIOR TO THE COMMENCEMENT OF WORK, THE IMSA (INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION) CERTIFICATION PAPERS FOR ALL SIGNAL TECHNICIANS WORKING ON THIS PROJECT.

B) LOCATIONS OF THE REPLACEMENT DETECTION SHALL BE FIELD MARKED OR DIMENSIONED DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION SECTION BY DEPARTMENT OF PUBLIC SERVICE PERSONNEL. LOCATION OF FINAL PAVEMENT MARKINGS OR THE MARKINGS THEMSELVES SHALL BE CLEARLY INDICATED ON THE ASPHALT PRIOR TO DETECTOR LOCATIONS BEING MARKED. THE CONTRACTOR SHALL LAYOUT THE LOOPS ON THE PAVEMENT IF DRAWINGS ARE SUBMITTED. IF DRAWINGS HAVE NOT BEEN PROVIDED, CONTACT SIGNAL OPERATIONS PERSONNEL AT 645-0423 (CELL 419-4501) AT LEAST TWO WORKING DAYS PRIOR TO NEEDING THE LOCATION MARKED. IF UNABLE TO MAKE CONTACT THROUGH THE ABOVE NUMBERS, CALL 645-7393.

C) THE SAW SLOT DEPTH FOR LOOP WIRE INSTALLATION SHALL BE FOUR (4) INCHES WITH SIX (6) INCHES AT THE CONDUIT ENTRANCE. IF ADVERSE PAVEMENT CONDITIONS WARRANT, DEPTH MAY BE INCREASED TO SIX (6) INCHES THROUGHOUT AND SHALL BE DETERMINED BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR.

D) EACH LOOP SHALL HAVE ITS OWN CONDUIT FROM EDGE OF PAVEMENT TO PULL BOX UNLESS SPECIFIED OTHERWISE BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR.

E) THE PULLBOX ASSEMBLY SHALL BE RATED AS MEDIUM TO HEAVY DUTY, TO BE INSTALLED IN CONCRETE WALKWAYS, AND HAVE ALL STAINLESS STEEL HARDWARE. THE PULLBOX COVER SHALL HAVE THE WORD "TRAFFIC" ON IT. THE COVER SHALL BE BOLTED TO THE BOX AND SHALL BE EITHER POLYMER CONCRETE OR STEEL PLATE. THE COVER PLUS HOUSING AS A UNIT SHALL BE RATED TO WITHSTAND A MINIMUM OF 20,000LB. STATIC LOAD OVER A 10"x 10" AREA AS PER ASTM-C857. THE BOX DEPTH SHALL BE 18 INCHES MINIMUM TO 30 INCHES MAXIMUM. IF THE PROJECT DOES NOT SPECIFY 713.08 CONCRETE PULL BOXES, THE SUPPLIED ASSEMBLIES SHALL BE AS FOLLOWS: CDR SYSTEMS MODEL SA32-1015-18, OR SYNERTECH MODEL 11"x 18". SIX (6) INCHES OF #4 AGGREGATE SHALL BE PLACED AT THE BOTTOM OF THE PULLBOX. NO CONDUIT SHALL PROTRUDE MORE THAN THREE (3) INCHES INSIDE THE PULLBOX. CONDUIT ELLS OR EXTENSIONS MAY BE USED TO ALIGN THE CONDUIT WITH THE HOUSING. THE COST FOR THE EXTENSIONS OR ELLS IF NEEDED SHALL BE INCIDENTAL TO THE PER UNIT PRICE.

F) WHEN A PULLBOX IS NOT USED, THE SOLDERED SPLICE SHALL BE MADE IN AN ANCHOR BASE STRAIN POLE OR CONDUIT RISER SPECIFIED BY THE DEPARTMENT OF PUBLIC SERVICE 'S REPRESENTATIVE, EXCEPT WHERE A CONTROLLER CABINET IS MOUNTED ON THAT POLE IN WHICH CASE THE LOOP WIRE SHALL BE ROUTED DIRECTLY INTO THE CABINET.

G) THE CONTRACTOR SHALL NOT MAKE ANY WIRING CONNECTIONS OR ADJUSTMENTS INSIDE THE CONTROL CABINET. WHEN SUCH CONNECTIONS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE TRAFFIC OPERATIONS SHOP 645-7393, MON.-FRI., 8AM-4PM, TO SCHEDULE CITY FORCES FOR MAKING THE ACTUAL CONNECTIONS. THE CONTRACTOR SHALL BE AVAILABLE AT THE AGREED TIME. THE CONTRACTOR WILL BE BILLED FOR ANY TIME CITY FORCES ARE REQUIRED TO WAIT FOR THE CONTRACTORS' WORK TO BE COMPLETED.

H) CONDUIT PLACED IN "RIGHT OF WAY" AREAS BEARING NO TRAFFIC FOR DETECTOR LEAD IN SHALL BE ODOT ITEM 725.051, ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION. CONDUIT PLACED UNDER A ROADWAY OR IN AREAS THAT MAY BEAR TRAFFIC SHALL BE ODOT ITEM 725.04 (SIZES AND TYPE TO BE DETERMINED BY THE DEPARTMENT OF PUBLIC SERVICE 'S REPRESENTATIVE. ALL CONDUITS SHALL BE PLACED AT A MINIMUM DEPTH OF 24 INCHES.

I) LOOP WIRE SHALL BE IDENTIFIED WITH A PLASTIC TAG (WBLT, EBRT, ECT.) AT THE SPLICE POINT OR AT THE ENTRANCE TO THE CABINET IF LEAD-IN CABLE IS NOT USED.

J) THE ITEMS AND ESTIMATED QUANTITIES FOR THE REPLACEMENT OF THE DEPARTMENT OF PUBLIC SERVICE'S DETECTION ITEMS SHALL BE INCLUDED IN THESE PLANS WHEN DIRECTED BY THE PLAN REVIEWER. THESE ESTIMATES ARE FOR THE PURPOSE OF BIDDING THE PROJECT. THE FOLLOWING LIST OF THE ITEMS AND QUANTITIES PROJECTED FOR USE IN DETECTOR REPLACEMENT FOR THIS PROJECT:

ITEM	QUAINT	UNIT	ITEM DESCRIPTION
202		SF	WALK REMOVED
608		SF	4" CONCRETE WALK
632		LF	CONDUIT RISER, 1 OR 2 INCH DIA.
625		LF	CONDUIT 1, 1 ½, OR 2 INCH DIA.
625		LF	TRENCH
625		EACH	PULL BOX, AS PER PLAN
632		EACH	DETECTOR LOOP
632		LF	LOOP DETECTOR LEAD-IN CABLE
632		LF	LASH / UNLASH CABLE

THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATIONS' PERSONNEL AT 645-0423 (CELL 419-4501) AFTER ALL LOOPS HAVE BEEN INSTALLED AT EACH INTERSECTION. IF UNABLE TO MAKE CONTACT THROUGH THE ABOVE NUMBER CALL, 645-7393. THE DEPARTMENT OF PUBLIC SERVICE SHALL INSPECT ALL SENSORS AND TEST AS NECESSARY. THE CONTRACTOR SHALL REPLACE ALL LOOPS NOT MEETING SPECIFICATIONS.

EXISITNG PERMANENT TRAFFIC CONTROL NOTES ITEM SPECIAL FOR CAPITAL IMPROVEMENT PROJECTS

E. ITEM SPECIAL- PARKING METER POSTS REMOVED OR POST CORES

THE CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC SERVICE REGARDING PARKING METERS TO BE REMOVED, METERS TO BE RELOCATED, AND NEW METER INSTALLATION.

THE DEPARTMENT OF PUBLIC SERVICE WILL REMOVE ANY METER HEADS SPECIFIED TO BE REMOVED, ROTATE METER HEADS SPECIFIED TO BE ROTATED; AND INSTALL METER HEADS AND POSTS FOR ANY NEW METERS SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE POST AFTER THE METER HEAD IS REMOVED BY DPS. IF A NEW METER IS PLANNED IN A PAVED OR CONCRETE AREA, THE CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC SERVICE TO HAVE POST LOCATIONS PREMARKED AND SHALL CORE HOLE FOR POST INSTALLATION.

THE DEPARTMENT OF PUBLIC SERVICE WILL REMOVE OR COVER ALL PARKING METER HEADS PUT OUT OF SERVICE BY THIS PROJECT. THERE IS A $60.00 DOLLAR CHARGE FOR THE REMOVAL AND REINSTALLATION OF EACH METER. IN ADDITION, A DAILY METER FEE WILL BE CHARGED FOR ALL ENFORCEMENT HOURS FOR EACH METER TAKEN OUT OF SERVICE. THESE CHARGES WILL BE COLLECTED FROM THE CONTRACTOR IN ADVANCE WITH THE ISSUANCE OF THE STREET OCCUPANCY/EXCAVATION PERMIT FROM THE DEPARTMENT OF PUBLIC SERVICE'S PERMIT OFFICE. (645-7497) THE MANAGER OF PARKING SERVICES SUPPORT (645-7890) SHALL BE NOTIFIED A MINIMUM OF FORTY-EIGHT (48) HOURS (EXCLUDING SAT, SUN, & HOLIDAYS) PRIOR TO BEGINNING WORK. CALL 645-8376 IF UNABLE TO MAKE CONTACT THROUGH THE PRIOR PHONE NUMBER.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE FOLLOWING:
ITEM SPECIAL - PARKING METER POST REMOVAL
ITEM SPECIAL - PARKING METER POST CORE

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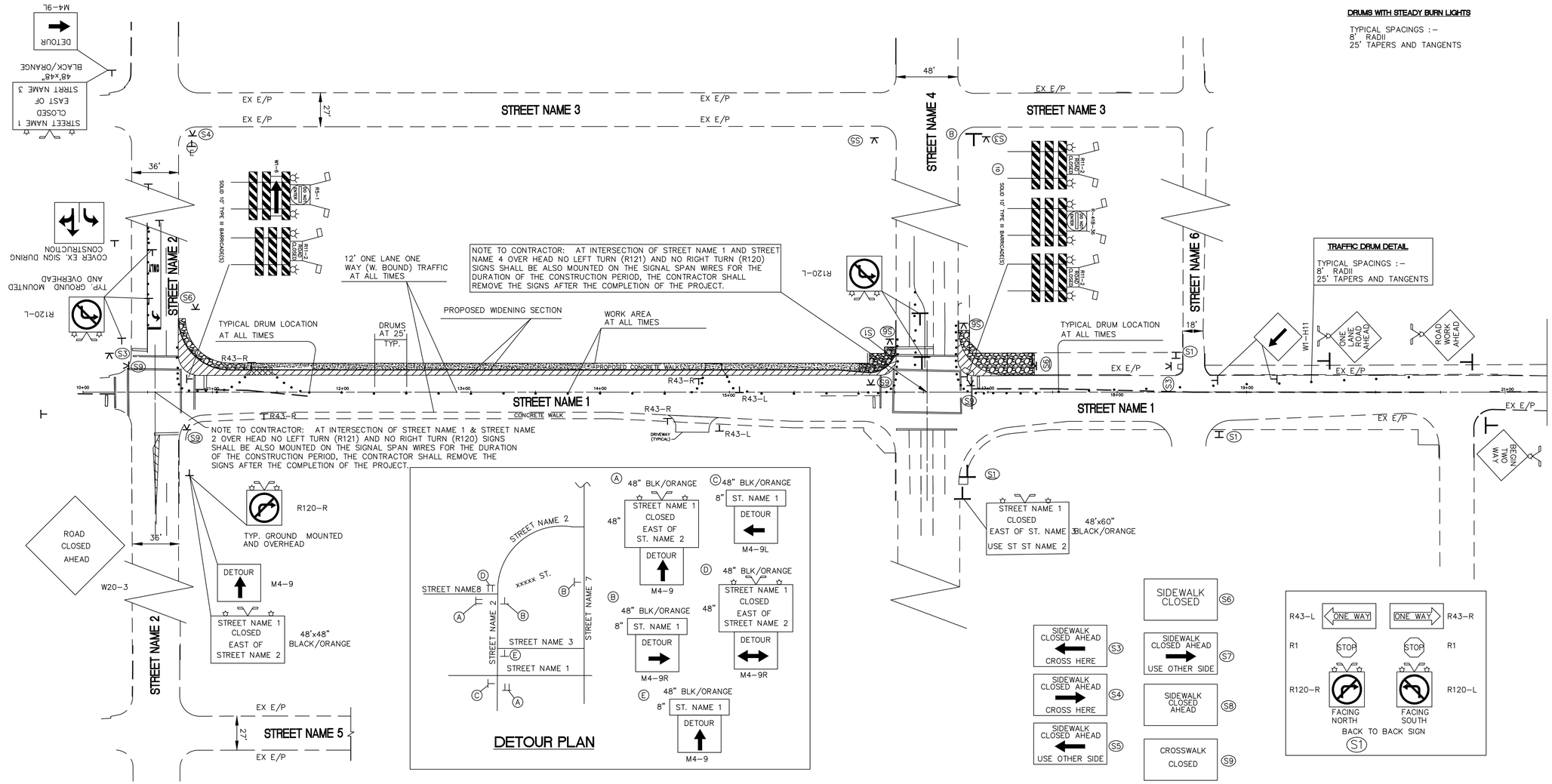

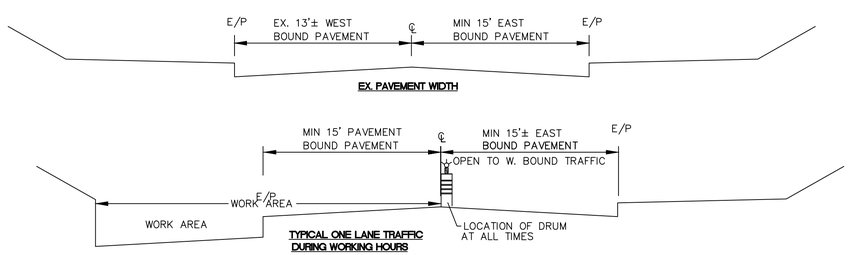

SIGNAL MOT

PHASE I

DURING PHASE 1 EASTBOUND SIGNAL HEADS FOR STREET NAME 11 @ STREET NAME 4 SHALL BE COVERED AND HAVE POWER DISCONNECTED TO THE HEADS AT THE CONTROL CABINET. (SEE %%UITEM 632 COVERING OF VEHICULAR/PED SIGNAL HEADS AND PUSHBUTTONS, AS PER PLAN SHEETS 31–46) CONTACT THE CITY OF COLUMBUS TRAFFIC MAINTENANCE SHOP AT 645–7933 WHEN SIGNAL HEADS ARE TO BE COVERED SO THE CITY CAN DISCONNECT THE EASTBOUND LOOP. (GIVE 3 CITY WORK DAY NOTICE) TEMPORARY SIGNAL POLE INSTALLATION WILL BE COMPLETED AT THIS TIME. EACH TEMPORARY SIGNAL POLE LOCATION IS TO BE STAKED AND THE LOCATION APPROVED BY THE TRANSPORTATION DIVISION SIGNAL INSPECTOR. THE CONTRACTOR MAY REUSE EXISTING SPAN OR INSTALL NEW AS REQUIRED BUT INSTALL TWO NEW PIGTAILS. AS PER PLAN, THE CONTRACTOR SHALL TRANSFER EXISTING SIGNAL ITEMS (SIGNAL CONTROLLER CABINET, PED UNITS, & PUSHBUTTONS W/SIGNS) AND EXTEND CABLE AS NEEDED. WEATHERPROOF SPLICING IS PERMITTED INCLUDING HEAD SHIFTING. ONE OR TWO DOWN GUYS ARE TO BE USED AS SPECIFIED.

PHASE II

SHIFT WESTBOUND SIGNAL HEADS AT STREET NAME1 @ STREET NAME 4 AND STREET NAME 1 @ STREET NAME 2. THE CONTRACTOR SHALL SHIFT OVERHEAD SIGNS AS INDICATED AND PLACE SIGNAL HEADS AT STREET NAME 1 @ STREET NAME 2 4' ON EACH SIDE OF THE CENTER LINE OF THE LANE. SIGNAL HEADS AT ROAD NO. 1 @ xxxx ST SHALL BE PLACED IN SAME MANNER UNLESS LEFT TURN LANE IS ADDED THEN SHIFT SIGNAL HEADS 1' FROM DOUBLE YELLOW LINE WITH 9' SPACING. THE CONTRACTOR SHALL NOTIFY THE SIGNAL MAINTENANCE SHOP (645–7933) THREE (3) CITY WORKDAYS PRIOR TO ANY LANE SHIFTING THAT EFFECTS TRAFFIC PASSING THROUGH A SIGNALIZED INTERSECTION OR PRIOR TO ANY SIGNAL WORK SO REQUIRED SIGNAL TIMING, PHASING OR CONTROL CABINET CHANGES CAN BE MADE TO THE EXISTING EQUIPMENT.

CONSTRUCTION STAGING: STAGE 2

CONSTRUCTION OF NEW PAVEMENT ON THE NORTH SIDE OF STREET NAME 1.

1. THE ERECTION OF THE TEMPORARY SIGNS AND TRAFFIC MARKINGS.
2. THE CONSTRUCTION OF THE NEW WIDENING SECTION ON THE NORTH SIDE OF STREET NAME 1 AND THE CONSTRUCTION/RELOCATION OF ALL UNDERGROUND UTILITIES AND CONDUITS.
3. THE FINAL PAVING OF THE ENTIRE PROJECT WIDTH AND LENGTH
4. THE SEEDING AND MULCHING OF THE ENTIRE SITE.
5. THE FINAL STRIPING AND SIGNING OF THE ENTIRE PROJECT
6. THE CONSTRUCTION OF THE NEW SIGNAL AT THE INTERSECTION OF STREET NAME 1 AND STREET STREET NAME 4, AND THE SIGNAL AT THE INTERSECTION OF STREET NAME 1 AND STREET NAME 2.
7. THE CONTRACTOR SHALL PERFORM FINAL CLEANING AND REMOVE ALL EQUIPMENT FROM SITE
8. THE CONTRACTOR SHALL COMPLY WITH THE FINAL PUNCH LIST PREPARED BY THE CITY'S INSPECTOR.
9. THE CLOSE–OUT OF THE PROJECT.
10. PAYMENT FOR MAINTENANCE OF TRAFFIC (NOT INCLUDING MOBILIZATION, PERMANENT SIGNING AND STRIPING) SHALL BE INCLUDED IN THE LUMP SUM ITEM 614 MAINTENANCE OF TRAFFIC.
11. CONTRACTOR TO FURNISH AND INSTALL DRUMS TO CLOSE THE SOUTH BOUND LEFT LANE OF STREET NAME 4 AT ALL TIMES.

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MAINTENANCE OF TRAFFIC

PROJECT NAME

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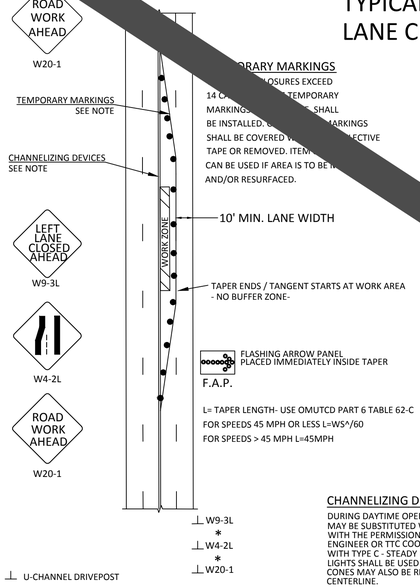
VOID THIS SHEET-SEE MAINTENANCE OF TRAFFIC STANDARD DRAWINGS: 1500-1599

TYPICAL LEFT LANE CLOSURE



TEMPORARY MARKINGS

14 C... CLOSURES EXCEED ... TEMPORARY MARKINGS ... SHALL BE INSTALLED. ... MARKINGS SHALL BE COVERED W... FECTIVE TAPE OR REMOVED. ITEM... CAN BE USED IF AREA IS TO BE ... AND/OR RESURFACED.

L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C
FOR SPEEDS 45 MPH OR LESS L=WS^/60
FOR SPEEDS > 45 MPH L=45MPH

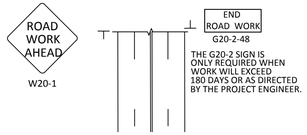
CHANNELIZING DEVICES

DURING DAYTIME OPERATIONS, DRUMS MAY BE SUBSTITUTED WITH 42" CONES WITH THE PERMISSION OF THE PROJECT ENGINEER OR TTC COORDINATOR. DRUMS WITH TYPE C - STEADY BURN WARNING LIGHTS SHALL BE USED AT NIGHT. CONES MAY ALSO BE REQUIRED ALONG CENTERLINE.

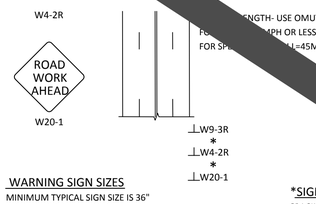
CHANNELIZING DEVICE SPACING
40' - TANGENTS
20' - TAPERS
6'-8' - RADII

⊥ U-CHANNEL DRIVEPOST
● DRUM WITH TYPE C or TYPE D 360 DEGREE STEADY BURN WARNING LIGHTS OR 42" REFLECTORIZED CHANNELIZING DEVICE, CONES
FLAGGER

TYPICAL RIGHT LANE CLOSURE



THE G20-2 SIGN IS ONLY REQUIRED WHEN WORK WILL EXCEED 180 DAYS OR AS DIRECTED BY THE PROJECT ENGINEER.



L= TAPER LENGTH- USE OMUTCD PART 6 TABLE 62-C
FOR SPEEDS 45 MPH OR LESS L=WS^/60
FOR SPEEDS > 45 MPH L=45MPH

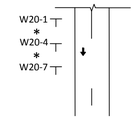
WARNING SIGN SIZES

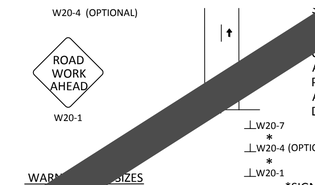
MINIMUM TYPICAL SIGN SIZE IS 36" INCREASE SIGN SIZE TO 48" WHEN ON 4-LANE ARTERIAL OR WIDER. PLACE SIGNS ON BOTH SIDES OF A ONE-WAY MULTI - LANE STREET.

*SIGN SPACING

SPACING STARTS FROM THE FIRST DRUM OR D... SPACING IS 100' FOR SPEEDS <= TO 45 MPH OR 350' SPACING FOR SPEEDS > 45 MPH SEE OMUTCD PART 6 TABLE 6C-1

LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS





W... SIZES

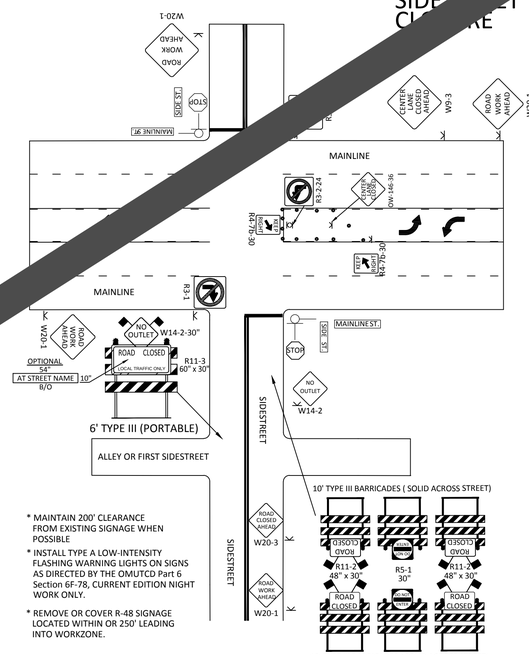
M... SIGN SIZE IS 36" ... SIGN SIZE TO 48" WHEN ... WITH SPEEDS > 45MPH.

*SIGN SPACING

SPACING STARTS FROM THE FIRST DRUM OR DEVICE SPACING IS 100' FOR SPEEDS <= TO 45 MPH OR 350' SPACING FOR SPEEDS > 45 MPH SEE OMUTCD PART 6 TABLE 6C-1

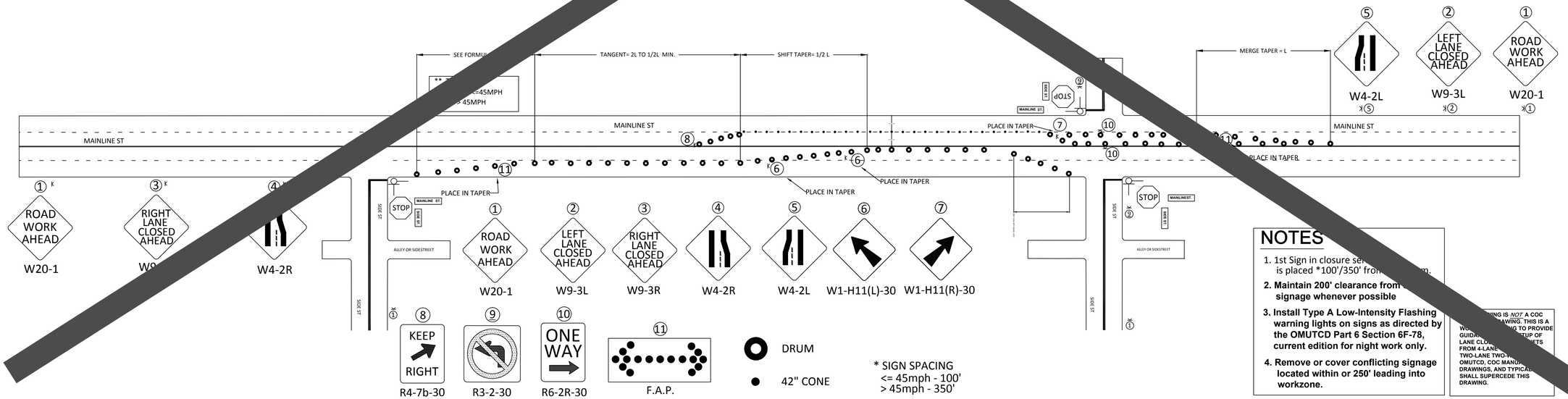
...K ZONES IN LOW ... SITUATIONS, WHERE ... FLAGGER IS VISIBLE TO ROAD ... USERS FROM BOTH DIRECTIONS, A SINGLE FLAGGER VISIBLY POSITIONED TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS , MAY BE USED.

TYPICAL SIDESTREET CLOSURE



* MAINTAIN 200' CLEARANCE FROM EXISTING SIGNAGE WHEN POSSIBLE
* INSTALL TYPE A LOW-INTENSITY FLASHING WARNING LIGHTS ON SIGNS AS DIRECTED BY THE OMUTCD Part 6 Section 6F-78, CURRENT EDITION NIGHT WORK ONLY.
* REMOVE OR COVER R-48 SIGNAGE LOCATED WITHIN OR 250' LEADING INTO WORKZONE.

EXISTING 4 LANE - 2 WAY to 2 LANE - 2 WAY Using LANE CLOSURE PLUS SHIFT ACROSS CENTERLINE



NOTES

1. 1st Sign in closure se... is placed *100'/350' fro...
2. Maintain 200' clearance from ... signage whenever possible
3. Install Type A Low-Intensity Flashing warning lights on signs as directed by the OMUTCD Part 6 Section 6F-78, current edition for night work only.
4. Remove or cover conflicting signage located within or 250' leading into workzone.

...WING IS *NOT* A COC ...AWING. THIS IS A ...NG TO PROVIDE ...TUP OF ...ETS FROM 4-LANE ... TWO-LANE TWO-W... OMUTCD, COC MANU... DRAWINGS, AND TYPICAL... SHALL SUPERCEDE THIS DRAWING.

REVISED 04/12/16

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MAINTENANCE OF TRAFFIC

PROJECT NAME

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XX

SHEET NUMBER																ITEM	GRAND TOTAL	UNIT	DESCRIPTION
8	9	10	28	35	37	40	43	46	49	52	55	58	61	66	71				
																			ROADWAY
																201	LUMP	LUMP	CLEARING AND GRUBBING
					47	61	150		360	195	382	42				202	1237	L.F.	PIPE REMOVED
							1	1	2	1	4	1				202	10	EACH	CATCH BASIN REMOVED
										382	227					202	609	L.F.	GUARDRAIL REMOVED
											1				1	202	2	EACH	CUT AND CAP EXISTING SANITARY SEWER
											1					202	1	EACH	SANITARY MANHOLE REMOVED
						1	1			8						202	10	EACH	REMOVAL MISC. ROCK
					14	2										202	16	EACH	REMOVAL MISC: POST
							271	19	259							202	549	L.F.	FENCE REMOVED
			6030													203	6030	C.Y.	EMBANKMENT
			14645													203	14645	C.Y.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
					4		4		8		4					608	20	EACH	CURB RAMP
					6	2	6		8		6					608	28	EACH	DETECTABLE WARNING
20 *																616	20	M GAL.	WATER
2 *																616	2	TONS	CALCIUM CHLORIDE
500 *																653	500	C.Y.	TOPSOIL FURNISHED
	12 *															690	12	EACH	SPECIAL – MAILBOX SUPPORT
		2 *														SPECIAL	2	EACH	TESTING OF NON-CONTAMINATED MATERIAL
		10 *														SPECIAL	10	C.Y.	STOCKPILING OF NON-CONTAMINATED MATERIAL
		10 *														SPECIAL	10	C.Y.	CONTAMINATED MATERIAL REMOVED AND DISPOSED OF
																			SWPPP
				895												207	895	L.F.	FILTER FABRIC FENCE
				7												207	7	EACH	CATCH BASIN PROTECTION
				35												207	35	EACH	INLET PROTECTION
				1												207	1	EACH	TEMPORARY FILTER FABRIC DITCH CHECK
				488												207	488	S.Y.	CONSTRUCTION DITCH PROTECTION
			16027													659	16027	S.Y.	SEEDING AND MULCHING
10																659	10	MGAL	WATER
																			DRAINAGE
							55		133							901	188	L.F.	6" PIPE WITH TYPE 1 BEDDING
					524	43	86	111	151	132	168	112				901	1327	L.F.	12" PIPE, WITH TYPE I BEDDING
					46											901	46	L.F.	15" PIPE, WITH TYPE I BEDDING
					201	400					472	397				901	1470	L.F.	18" PIPE, WITH TYPE I BEDDING
						100	500	440	562	50						901	1652	L.F.	24" PIPE, WITH TYPE I BEDDING, WITH ITEM 912 COMPACTED GRANULAR BACKFILL
										288	1	1				901	288	L.F.	30" PIPE, WITH TYPE I BEDDING, WITH ITEM 912 COMPACTED GRANULAR BACKFILL
											1				1	604	2	EACH	SANITARY MANHOLE
												2				604	2	EACH	SANITARY MANHOLE ADJUSTED TO GRADE
							1						1			604	2	EACH	MANHOLE ADJUSTED TO GRADE
					1							1				604	2	EACH	HEADWALL FOR 12" PIPE
													2	2		604	4	EACH	CATCH BASIN ADJUSTED TO GRADE
					2			1	3	1		1				604	8	EACH	STANDARD CATCH BASIN
					4	2	2	2	3	4	5	3				604	25	EACH	MANHOLE TYPE C
					6	2	4	4	4	5	6	4				604	35	EACH	CURB AND GUTTER INLET
											61				40	901	101	L.F.	8" PIPE WITH TYPE 1 BEDDING
																	1		
																			WATER WORK
		5 *			2	1		2	2		3	1	1			807	17	EACH	VALVE BOX ADJUSTED TO GRADE
		5 *							2							807	7	EACH	WATER SERVICE TAP ADJUSTED TO GRADE
							1									808	1	EACH	RELOCATE 6" WATER SERVICE LINE
							2									808	2	EACH	RELOCATE 8" WATER SERVICE TAP
								18								808	18	L.F.	RELOCATE 12" WATER LINE
									1							808	1	EACH	2" WATER SERVICE TAP RELOCATED
						1										809	1	EACH	FIRE HYDRANT ADJUSTED TO GRADE
					1				1	1	2		1			810	6	EACH	6" HYDRANT EXTENSION
							1	2								810	3	EACH	8" HYDRANT EXTENSION

* = CONTINGENCY QUANTITY

GENERAL SUMMARY

PROJECT NAME

X
XX

XXXX - E

REVISED 10/24/14
J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\07_01 GENERAL SUMMARY (CIP).dwg (Gen Sum (CIP))

PAVEMENT WIDENING AREA:

STREET NAME 1

STA. 46+00 TO STA. 47+00	= 100' X (0' + 11')/2	= 550.00 SF.
STA. 47+00 TO STA. 49+26	= 226' X 11'	= 2486.00 SF.
SOUTH-WEST CORNER	= CAD GENERATED	= 860.00 SF.
STA. 50+75 TO STA. 52+35	= 160' X 11'	= 1760.00 SF.
STA. 52+35 TO STA. 53+35	= 100' X (11' + 0')/2	= 550.00 SF.
NORTH-EAST CORNER	= CAD GENERATED	= 767.00 SF.
	SUB-TOTAL	= 6973.00 SF.

STREET NAME 2

STA. 17+08 TO STA. 19+19	= 211' X 11'	= 2321.00 SF.
STA. 19+19 TO STA. 19+74	= CAD GENERATED	= 997.00 SF.
STA. 20+82 TO STA. 21+87.50	= 105.5' X 11'	= 1160.50 SF.
STA. 21+87.50 TO STA. 22+46	= 58.5' X (11' + 0')/2	= 321.75 SF.
NORTH-WEST CORNER	= CAD GENERATED	= 877.00 SF.
	SUB-TOTAL	= 5677.25 SF.
	TOTAL	= 12,650.25 SF.

ITEM: 448: 1.5"" ASPHALT CONCRETE, SURFACE COURSE (MEDIUM TRAFFIC), PG64-22
= (12,650.25 SF X 1.50"/12)/27 = 58.57 CY

PAVEMENT PLANING AND RESURFACING AREA = (74,077.00 SF X 1.50"/12)/27 = 342.95 CY

TOTAL = 401.52 CY

ITEM: 305: 8" PORTLAND CEMENT CONCRETE BASE: = 12,650.25 SF/9 = 1405.58 SY

ITEM: 448: 1.5" ASPHALT CONCRETE, INTERMEDIATE COURSE (MEDIUM TRAFFIC), PG64-22
= (12,650.25 SF. X 1.50"/12)/27= 58.57 CY

AREA FOR ITEM: 204: SUBGRADE COMPACTION

STREET NAME 1

STA. 46+00 TO STA. 47+00	= 100' X (0' + 11')/2	= 550.00 SF.
STA. 47+00 TO STA. 49+26	= 226' X 11'	= 2486.00 SF.
SOUTH-WEST CORNER	=CAD GENERATED	= 860.00 SF.
STA. 50+75 TO STA. 52+35	= 160' X 11'	= 1760.00 SF.
STA. 52+35 TO STA. 53+35	= 100' X (11' + 0')/2	= 550.00 SF.
NORTH-EAST CORNER	= CAD GENERATED	= 767.00 SF.
	SUB-TOTAL	= 6973.00 SF.

STREET NAME 2

STA. 17+08 TO STA. 19+19	= 211' X 13.5'	= 2848.50 SF.
STA. 19+19 TO STA. 19+74	=CAD GENERATED	= 997.00 SF.
STA. 20+82 TO STA. 21+87.50	= 105.5' X 13.5'	= 1424.25 SF.
STA. 21+87.50 TO STA. 22+46	= 58.5' X (13.5' + 0')/2	= 394.88 SF.
NORTH-WEST CORNER	= CAD GENERATED	= 877.00 SF.
	SUB-TOTAL	= 6541.63 SF.
	TOTAL	= 13,514.63 SF.

ITEM: 204: SUBGRADE COMPACTION: = 13,514.63 SF./9 = 1501.63 S.Y.

ITEM: 609: COMBINATION CURB AND GUTTER; TYPE ____

STA. 17+10 TO STA. 19+19 (RT.)	= 214.00 L.F.
STA. 20+82 TO STA. 22+46 (LT.)	= 164.00 L.F.
TOTAL	= 378.00 L.F.

ITEM: 605: 4" PIPE UNDERDRAIN: = 378' + 996' = 1374.00 L.F.

ITEM: 407: TACK COAT:

FROM PAVEMENT WIDENING	= (12,650.25 SF./9) X 0.10 GAL./S.Y.	= 140.56 GALS.
FROM PAVEMENT PLANING & RESURFACING	= (74,077.00 SF./9) X 0.15 GAL./S.Y.	= 1234.62 GALS.
FROM PAVEMENT CUT	= (1381.00 LF. X 11"/12) X 0.10 GAL./S.Y.	= 14.07 GALS.
	TOTAL	= 1389.25 GALS.

SURFACE AREA FOR TACK COAT AT PAVEMENT CUT

STA. 46+00 (RT.) TO STA. 19+06 STREET NAME 1 (LT.)	= 425.00 L.F.
STA. 49+14 (LT.) TO STA. 22+46 STREET NAME 1 (LT.)	= 266.00 L.F.
STA. 17+10 (RT.) TO STA. 50+88 STREET NAME 2 (RT.)	= 330.00 L.F.
STA. 20+97 (RT.) TO STA. 53+35 STREET NAME 2 (LT.)	= 360.00 L.F.
TOTAL	= 1381.00 L.F.

ITEM: 609: CURB, STRAIGHT 18":

STA. 46+00 (RT.) TO STA. 19+06 (LT.)	= 403.00 L.F.
STA. 40+87 TO STA. 20+82 (LT.)	= 111.00 L.F.
STA. 19+19 TO STA. 51+47 (RT.)	= 140.00 L.F.
STA. 20+97 TO STA. 53+35 (LT.)	= 342.00 L.F.
TOTAL	= 996.00 L.F.

ITEM: 608: 4" CONCRETE WALK:

STA. 17+10 TO STA. 17+87 (RT.)	= (5' X 77')+(10'X15') NE-CORNER W/O X AVE.	= 535.00 SF.
STA. 18+13 TO STA. 18+35 (RT.)	= 5' X 22'	= 110.00 SF.
STA. 18+68 TO STA. 19+10 (RT.)	= 5' X 42'	= 210.00 SF.
STA. 51+23 TO STA. 51+47 (RT.)	= 12.5' X 24'	= 300.00 SF.
STA. 51+98 TO STA. 52+18 (LT.)	= 5' X 20'	= 100.00 SF.
STA. 52+29 TO STA. 52+49 (LT.)	= 5' X 20'	= 100.00 SF.
STA. 52+83 TO STA. 53+02 (LT.)	= 5' X 19'	= 95.00 SF.
STA. 53+12 TO STA. 53+35 (LT.)	= 5' X 23'	= 115.00 SF.
STA. 47+98.50 TO STA. 48+15 (RT.)	= (4'X13') + (5'X18')	= 142.00 SF.
STA. 48+53 TO STA. 49+06 (RT.)	= 5' X 53'	= 265.00 SF.
STA. 20+90 TO STA. 21+38 (LT.)	= 8' X 48'	= 384.00 SF.
STA. 21+73 TO STA. 21+95 (LT.)	= 8' X 22'	= 176.00 SF.
STA. 21+00 TO STA. 21+10 (RT.)	= 5' X 10'	= 50.00 SF.
STA. 48+87 TO STA. 49+05 (LT.)	= 4' X 18'	= 72.00 SF.
STA. 50+88 TO STA. 51+56 (LT.)	= 5' X 68'	= 340.00 SF.
	TOTAL	= 2994.00 SF.

ITEM: 608: 8" CONCRETE WALK:

STA. 19+10 TO STA. 19+69 (RT.) (SE-CORNER)	= 8.5' X 78'	= 663.00 SF.
STA. 20+74 TO STA. 50+88 (RT.) (NE-CORNER)	= 12'(AVG.) X 58'	= 696.00 SF.
STA. 19+06 (LT.) TO STA. 49+06 (RT.) (SW-CORNER)	= 9.5' X 98'	= 931.00 SF.
STA. 49+05 (LT.) TO STA. 20+90 (LT.) (NW-CORNER)	= 9.8'(AVG.) X 99'	= 970.00 SF.
	TOTAL	= 3260.00 SF.

AREA FOR PAVEMENT PLANING AND RESURFACING:

STREET NAME 2

STA. 17+08 TO STA. 22+50	= (542' X 56') - 2(80' X 11' BUS PADS)	= 28,592.00 SF.

STREET NAME 1

STA. 46+00 TO STA. 49+75	= (375' X 52') - (74' X 11' BUS PAD)	= 18,686.00 SF.
STA. 50+30 TO STA. 55+35	= (505' X 52') - (105' X 11' BUS PAD)	= 25,105.00 SF.

ADD FILLET AREAS

S.W. CORNER =	322.00 SF.
S.E. CORNER =	375.00 SF.
N.E. CORNER =	416.00 SF.
N.W. CORNER =	581.00 SF.
TOTAL AREA =	74,077.00 SF.

HORIZ. SCALE NTS

CALCULATED | CHECKED

CALCULATIONS

PROJECT NAME

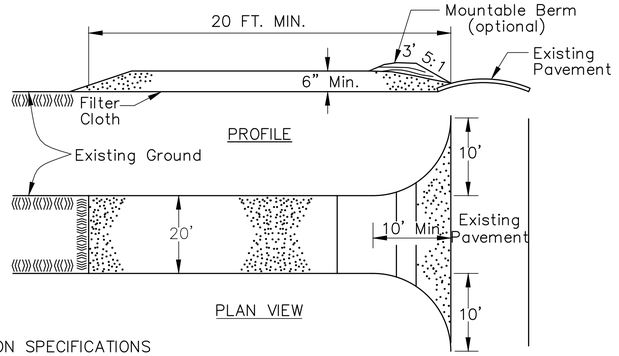
X / XX

XXXX–E

REVISED 10/24/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\07_03 CALCULATION SHEET (CIP).dwg (Calc Sheet (CIP))

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

1. Stone Size – Use 2 inch stone, or reclaimed or recycled concrete equivalent.
2. Length – As required.
3. Thickness – Not less than six (6) inches.
4. Width – Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth – will be placed over the entire area prior to placing of stone.
6. Surface Water – All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance – The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right–of–way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights–of–way must be removed immediately.
8. Washing – Wheels shall be cleaned to remove sediment prior to entrance onto public right–of–ways. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

Construction Sequence

1. Install required sediment fence and inlet protection on existing inlets as shown on Phase 1 Plan.
2. Install utilities and storm sewers. Provide inlet protection.
3. Construct proposed street and utilities.
4. Stabilize the disturbed areas per temporary and permanent seeding requirements.
5. Remove storm sewer inlet protection.

Note A: The Contractor shall be responsible for maintaining on–site drainage at all times during construction. No separate payment shall be made for maintaining drainage.

EROSION AND SEDIMENT CONTROL QUANTITIES

ITEM	TOTAL QUANTITY 27	28	29	TOTAL	UNIT	
207	-	225	3350	3575	LIN. FT.	PERIMETER FILTER FABRIC FENCE
207	-	1	-	8	EACH	CURB INLET PROTECTION
207	3	23	-	76	EACH	CATCH BASIN PROTECTION
207	-	15	4	36	EACH	FILTER FABRIC CATCH BASIN PROTECTION
207	7	2	2	11	EACH	ROCK CHECK DAM
207	-	-	1	1	EACH	STABILIZED CONSTRUCTION ENTRANCE
207	-	-	1	1	EACH	CONCRETE WASHOUT AREA

NOTE TO CONSULTANTS:

INCLUDE ALL ESC/SWP3 PAY ITEMS TO THE QUANTITY TABLE, SUCH AS, BUT NOT LIMITED TO, SITE STABILIZATION (SEED, SOD, GEOTEXTILES, STRAW, OR COMPOST BLANKETS, STRAW WATTLES, COMPOST FILTER SOCKS); TEMPORARY SEDIMENT RISERS AND SKIMMERS

Summary of Post–Construction Stormwater Control Facilities

Control/Outlet Structure No. (As referenced on plans)	Control Functions	Drainage area to Control facility (Acres)	Facility Types*
1	Water quality	0.2	Bioretention
4	Water quality, Flood control	9.3	Wet detention basin
13	Flood control	0.4	Parking lot orifice
24	Water quality, flood control	2.64	Pervious pavement

**The list of control facilities included in this example is for illustrative purposes only and is not meant to exclude other facility types.*

The following note shall be added in lieu of the table above in instances where stormwater control facilities are included in another phase of development or not required:

"Refer to drawing No. <XX–XXX> for stormwater control facility information"

"Reason the project does not meet the requirements of the BMP's"

LEGEND

- Catch Basin Protection
- Curb Inlet Protection
- Filter Fabric Fence
- Structure Number
- Perimeter Filter Fabric Fence
- Stabilized Construction Entrance
- Concrete Washout

This SWP3 plan must be posted on–site. A copy of the SWP3 plan and the approved OEPA storm water permit (with site specific NOI number) must be kept on–site at all times.

Direct discharge of sediment laden water to the city's sewer system or a receiving stream is a violation of Ohio EPA and City of Columbus regulations; the contractor will be held liable for the violation and subsequent fines.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS NOTE:
Persuant to Phase II regulations of the NPDES amendment to the Clean Water Act of the United States of America, all public agencies and private contractors performing pavement–cutting operations on City of Columbus streets and roadways shall protect our environment from the dimunitive discharges created by their pavement cutting operations.

This requirement includes but is not limited to wet or dry saw–cutting, jack hammering, excavation equipment use, etc. The public agency and/or private contractor work crews shall recover and dispose of particles, polluted waters, or other such small discharges resulting from their pavement cutting operations and protect all storm sewer inlets from receiving runoff of said diminutive discharges. The agency or contractor responsible for each pavement cutting activity shall be solely liable for Notice of Violations (NOV/s) and fines issued by city of Columbus and/or State of Ohio authorities.

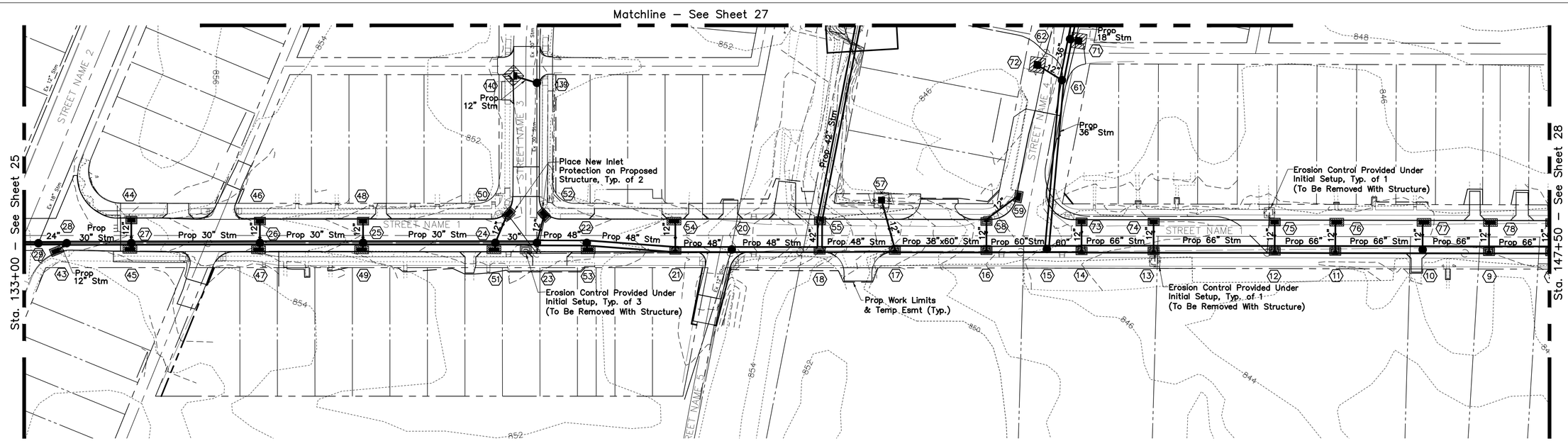
Equipment, materials and methods shall be provided by the responsible public agency and/or private contractor to work crews performing the pavement cutting activity and made available to work crews for use in cleaning up the small discharges resulting from such cutting activities and preventing runoff. Additionally, work crews shall be trained to exercise and employ equipment, materials, and environmental protective measures, to prevent discharges from entering the City of Columbus storm sewer systems and watercourses. All pay and work items with pavement cutting, sawing, or excavation shall abide by this note.

Moreover, if project plans, notes and /or drawings include a Stormwater Pollution Prevention Plan (SWP3) or a spill prevention/remediation plan; such plans shall be adhered to in addition to this note for all pavement cutting, sawing, or excavation operations on City of Columbus streets and roadways.

Suggested inlet protection is provided in the project documents under typical inlet protection dwg.1. The engineer shall approve alternative methods of inlet protection.

NOTE TO CONSULTANTS:

IF SWP3 OR SPILL PREVENTION/REMEDIATION PLANS ARE INCLUDED IN CONTRACT DOCUMENTS, THEY SHOULD BE CITED IN THE PARAGRAPH ABOVE BY VOLUME, PAGE OR SHEET NUMBERS; SO DIRECTING THE READER TO SUCH PLAN.



REVISED 11/2/15

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HORIZ. SCALE 50 0 25 50

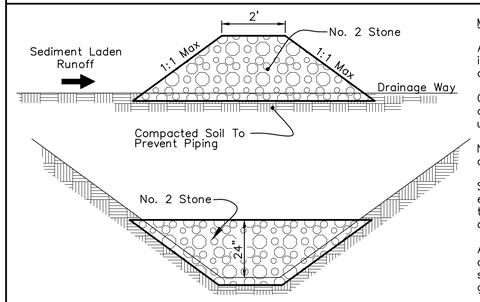
CALCULATED | CHECKED

STORM WATER POLLUTION PREVENTION PLAN

PROJECT NAME

XXXX–E

ROCK CHECK DAM



MAINTENANCE:

Aggregate check dams shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

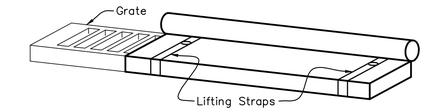
Close attention shall be paid to the repair of damaged check dams, end runs and undercutting beneath dams.

Necessary repairs to check dams shall be accomplished promptly.

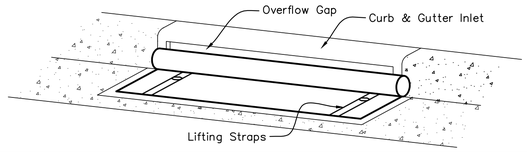
Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one–half the height of the barrier.

Any sediment deposits remaining in place after the aggregate is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

CURB INLET PROTECTION WITH GRATE

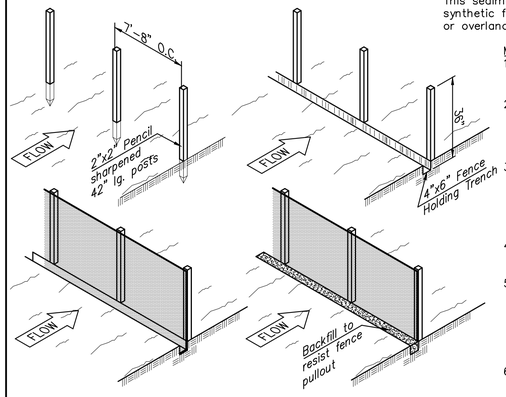


MAINTENANCE:
With a stiff bristle broom sweep silt and other debris off surface after each event.



USE FOR INLETS:
6–9, 11–14, 16–18, 21, 37–41, 43–54, 58, 59, 68–70, 73–81, 84, 85, 87–93, 95, 97–103, 126, 127, 129, 131, 150

SEDIMENT FENCE



SILT FENCE:

This sediment barrier utilizes standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected.

MATERIAL PROPERTIES ARE:

1. The height of a silt fence shall not exceed 36 inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
2. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
3. Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 12 inches). Wood posts will be a minimum of 32" long When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
4. A trench shall be excavated approximately 4 inches wide and 6 inches deep along the line of posts and upslope from the barrier.
5. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1–inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 2 inches and shall not extend more than 36 inches above the original ground surface.
6. The standard strength filter fabric shall be stapled or wired to the fence, and 8 inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
7. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item No. 6 applying.
8. The trench shall be backfilled and soil compacted over the filter fabric. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
9. Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
10. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

FABRIC PROPERTIES	VALUES	TEST METHOD
Grab Tensile Strength	90 lb. Minimum	ASTM 1682
Mullen Burst Strength	190 psi Minimum	ASTM 3786
Slurry Flow Rate	0.3 gal./min./f^2 Max	
Equivalent Opening Size	40–80	U.S. Std. Sieve CW–02215
Ultraviolet Radiation Stability	90% Minimum	ASTM–G–26

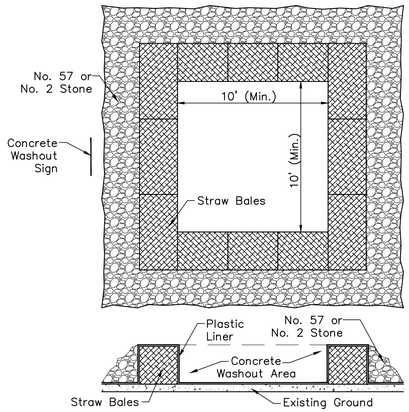
Note: The use of straw wattles has proven to be a versatile and effective ESC BMP, especially in residential settings. Straw wattles may be substituted for silt fence in linear installations. See detail, Sheet XX. The use of compost filter socks and compost blankets are gaining wider acceptance nationwide. they are now approved for use on all Columbus SWP3 plans and construction sites.

MAINTENANCE:
Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one–half the height of the barrier.

Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

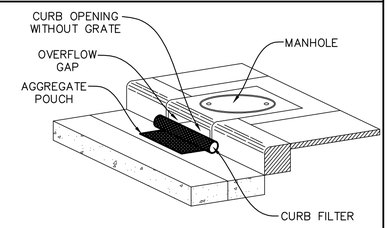
CONCRETE WASHOUT AREA



Concrete trucks shall utilize areas to washout trucks. Accumulated concrete shall be removed from the site and disposed of properly.

As an alternative, contractor shall use a roll off box with liner.

CURB INLET PROTECTION WITHOUT GRATE

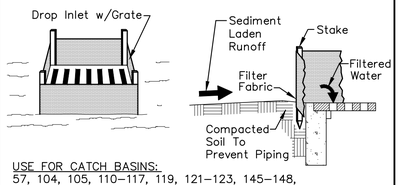


MAINTENANCE:
Remove all accumulated sediment and debris from the surface and vicinity of the unit after each storm event.

If using optional oil absorbents, remove and replace absorbents when they near saturation.

USE FOR INLETS:
Existing (See sheet 24)

FILTER FABRIC CATCH BASIN PROTECTION



USE FOR CATCH BASINS:
57, 104, 105, 110–117, 119, 121–123, 145–148, Existing (See sheets 24 & 28)

SPECIFIC APPLICATION:
This method of inlet protection is applicable where the inlet drains a relatively flat area (slopes no greater than 5 percent) where sheet or overland flows (not exceeding 0.5 cfs) are typical. This method shall not apply to inlets receiving concentrated flows, such as in street and highway medians.

CONTRACTOR RESPONSIBILITY: Details have been provided on the plans in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternate details may be found in the O.D.N.R. Manual "Rainwater and Land Development". The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Water Discharges Associated with Construction Activity.

Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to locations and dimensions may be made by the Engineer.

The Contractor shall place inlet and channel protection for erosion control immediately after construction of the inlets or channels which are not tributary to a sediment basin or dam.

It may become necessary to remove portions of the barrier during construction to facilitate the grading operations in certain areas. However, the barrier shall be in place in the evening or during any inclement weather.

The limits of seeding and mulching are as shown within the plans. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense.

"Temporary seeding" No area for which grading has been completed or where a denuded area will remain idle for more than 21 days shall be left unseeded for longer than 7 days. If permanent seed is not applied at this time, temporary seeding shall be done at the following rates:

March 1 to August 15
Seed: Oats 2 lbs./1,000 Sq.Ft.
Fertilizer: (12:12:12) 25 lbs./1,000 Sq.Ft.
Mulch: (Straw or Hay) 2 tons/acre

August 15 to November 1
Seed: Annual Rye 2 lbs./1,000 Sq.Ft.
Fertilizer: (12:12:12) 25 lbs./1,000 Sq.Ft.
Mulch: (Straw or Hay) 2 tons/acre

November 1 to March 1
Mulch (ONLY): (Straw or Hay) 2 tons/acre

"Permanent seeding" shall be done between March 15 and September 15. If seeding is done between September 15 and March 15, it shall be classified as "Temporary Seeding." Permanent seed shall be 40% Kentucky Bluegrass, 40% Creeping Red Fescue, 20% Annual Ryegrass. Permanent seeding shall consist of fertilizing, watering and seeding rates indicated under Item 659. Seeding shall be applied within two (2) days after final grading or following seed bed preparation.

Rates of application of Item 659:
Seed: 4 lbs./1,000 Sq.Ft.
Fertilizer: (12:12:12) 20 lbs./1,000 Sq.Ft.
Mulch: Straw (Hay) 2 tons/acre (3 tons/acre)

MAINTENANCE: It is the Contractor's responsibility to maintain the sediment control features used on this project. The site shall be inspected periodically and within 24 hours of a significant rainfall. Records of these inspections shall be kept and made available to jurisdictional agencies if requested. Any sediment or debris which has reduced the efficiency of a structure shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to the Owner. Not all details shown on this sheet may be required for this project. Reference Sediment Control Plan.

The cost for temporary channels, sediment dams, sediment basins, and other appurtenant earthmoving operations shall be included in the price bid for erosion and sedimentation control quantities.

Not all details shown on this sheet may be required for this project.

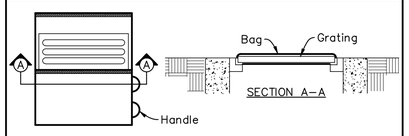
The Contractor shall be responsible to ensure that off–site tracking of sediments by vehicles and equipment is minimized. All such off–site sediment shall be cleaned up daily. Construction of stabilized construction entrances are a part of that responsibility.

Street Cleaning (on an as–needed basis) ir required through the duration of this construction project. This includes sweeping, power cleaning and (if necessary) manual removal of dirt or mud in the street gutters.

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into stormwater runoff. Sediment–laden water shall be filtered through the use of sediment filtering fences or sedimentation basins prior to discharge to surface waters. Concrete trucks will not be allowed to wash out or discharge surplus concrete into or alongside rivers, streams, and creeks or into natural or man–made channels or swales leading thereto. Concrete truck wash water and surplus concrete shall be confined to areas approved by the Engineer; after solidifying, these waste materials shall be removed from the site.

ALL EROSION & SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DIRECTION OF THE CITY OF COLUMBUS AND/OR OHIO EPA.

CATCH BASIN PROTECTION



MAINTENANCE:
With a stiff bristle broom or square point shovel remove silt & other debris off surface after each event.

USE FOR CATCH BASINS:
71, 72, 133, 134, 136, 138, 140

OEPA NOI #:

PLAN DESIGNER:	ENTITY: ADDRESS: CONTACT NAME: PHONE: EMAIL:
OWNER:	ENTITY: ADDRESS: CONTACT NAME: PHONE: EMAIL:
PROJECT DESCRIPTION:	The project consists of approximately 2,100 feet of roadway reconstruction, 700 feet of sidewalk / shared use path addition (beyond roadway reconstruction area), 4,500 feet of storm sewer replacement / installation (beyond roadway reconstruction and sidewalk / path installation areas), 1,100 feet of ditch regrading, 1,100 feet of stream restoration and the establishment of a regional detention basin. The roadway reconstruction and sidewalk / path installation areas include replacements or additions of storm sewers, waterlines, traffic signals, and street lighting.
EXISTING SITE CONDITIONS:	The entire project Corridor discharges directly to the Linden Ditch (Argyle Ditch). Storm water reaches Linden Ditch via existing storm sewer systems.
SITE DISTURBANCE:	Project earth disturbance area is: XX acres
RECEIVING STREAM:	Alum Creek
ADJACENT AREAS:	The project corridor is located within a residential area and commercial area.
CRITICAL AREAS:	Work will occur in existing stream channels in the area of the proposed detention basin and box culvert at Parkwood Avenue.
EROSION AND SEDIMENT MEASURES:	Erosion and sediment will be controlled by the use of inlet protection at storm sewer inlets and the use of construction techniques to minimize the disturbance along the existing channel. To the extent practical, "clean water" from the upstream watershed will be diverted around the in–stream construction activities and sediment–laden water from the construction area will be filtered prior to being released to the downstream channel.
PERMANENT STABILIZATION:	All disturbed areas shall be seeded and mulched. Geotextile reinforcement of earthen embankment is specified when in vicinity of channel banks. Hardened, non–erodible materials area also specified for channel bank reinforcement.
MAINTENANCE:	All erosion control devices are to be inspected by the construction superintendent daily and after rainfalls. Any damaged facilities are to be replaced / repaired immediately as may be necessary.
SCHEDULE:	The Contractor shall provide a schedule of operations to the City. Sedimentation and erosion control features shall be placed and maintained in accordance with this schedule.
SITE CONTACT:	ENTITY: PROJECT ENGINEER:: PHONE: EMAIL:

HORIZ. SCALE
NTS
CALCULATED
CHECKED

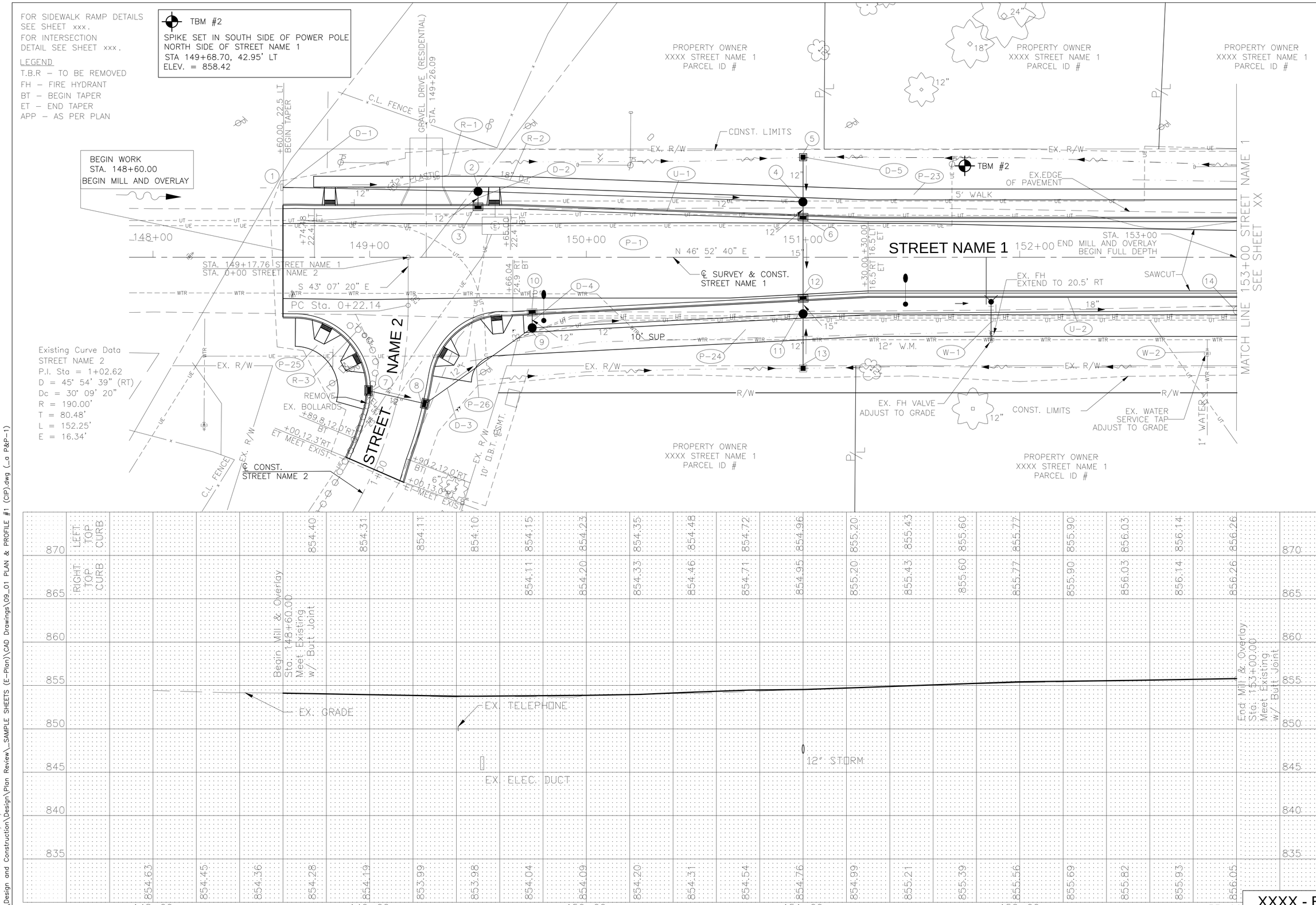
STORM WATER POLLUTION PREVENTION PLAN

PROJECT NAME

XXXX–E

REVISED 6/27/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E–Plan)\CAD Drawings\08_02 STORM WAT POLLUTION PLAN.dwg (SWPPP–2)



PLAN & PROFILE STATION TO STATION

PROJECT NAME

XXXX - E

X
XX

REVISED 11/7/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\09_01 PLAN & PROFILE #1 (CIP).dwg (_a P&P-1)

REF NO.	SHEET NO.	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED L.F.	202 REMOVAL MISC. POST EACH	901 12" PIPE W/ TYPE 1 BEDDING L.F.	901 15" PIPE W/ TYPE1 BEDDING L.F.	901 18" PIPE W/ TYPE1 BEDDING L.F.	604 HEADWALL FOR 12" PIPE EACH	604 CATCH BASIN EACH	604 MANHOLE TYPE C EACH	604 CURB AND GUTTER INLET EACH	608 CURB RAMP EACH		608 DETECTABLE WARNINGS EACH	807 VALVE BOX ADJUSTED TO GRADE EACH	810 6" HYDRANT EXTENSION EACH
D-1	36	148+60	151+00	LT			241			1		2						
D-2	36	149+50	149+50	LT			7						1					
D-3	36	148+99	153+00	RT			215		201			2	2					
D-4	36	149+75	149+75	RT			7						1					
D-5	36	151+00	151+00	LT/RT			54	46			2		2					
W-1	36	151+87		RT													1	1
W-2	36	152+87		RT													1	
R-1	36	149+08	149+37	LT	29													
R-2	36	149+56	149+74	LT	18													
R-3	36	148+89	148+91	LT		14												
	36	148+81	148+95	RT										2		2		
	36	148+82		LT												1		
	36	149+33	149+58	RT										2		2		
	36	149+57		LT												1		
TOTALS CARRIED TO GENERAL SUMMARY					47	14	524	46	201	1	2	4	6	4		6	2	1

SCALE 0 SCALE HORIZONTAL SCALE IN FEET

SUBSUMMARY

PROJECT NAME

XXXX - E

X
XX

REVISED 4/11/14

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TBM #3
EAST BOLT OF FH.
NORTHEAST OF STREET NAME 1
AND STREET NAME 3 INTERSECTION
NORTH SIDE OF STREET NAME 1
STA. 17+15, 32.83' LT.
ELEV. = 777.53

LEGEND

- ITEM 304 – 4" AGGREGATE BASE
  ITEM XXX – 4" ASPHALT CONCRETE
  ITEM XXX – 4" ASPHALT CONCRETE

(XXX) – STREET ADDRESSES

FOR CURB AND PAVEMENT QUANTITIES SEE SHEET NO. 13
FOR CURB RAMP DETAILS, SEE SHEET NO. 29 & 30
FOR PROP. CONCRETE BUS PAD DETAILS, SEE SHEET NO. 15 & 17
FOR C.O.T.A. INFORMATION, SEE SHEET NO. 4
FOR 8" CONCRETE WALK LIMITS, SEE SHEET NO. 27

* – STA. 49+32, 42' RT.
TIE EX. 1 ½" WS IN 90° HORIZ. BEND

● – STA. 49+38, 47' RT.

NOTE:
STA. 17+60, 41' RT.
SET PROPOSED CURB & GUTTER INLET ON TOP OF EXIST. 66" STM.

FOR SURVEY REFERENCE @ STA. 17+27.57, SEE SHEET NO. 36

RETAINING WALL
TYPICAL SECTION
NORTHEAST CORNER OF INTERSECTION

LEGEND

1. ITEM 448 – 1.5" ASPHALT CONCRETE, SURFACE COURSE (MEDIUM TRAFFIC), PG64–22
2. ITEM 448 – 1.5" ASPHALT CONCRETE, INTERMEDIATE COURSE (MEDIUM TRAFFIC), PG64–22
3. ITEM 304 – 4" AGGREGATE BASE
4. ITEM 413 – CRACK SEALING

[*] THE CONTRACTOR SHALL REMOVE ANY DETERIORATED PAVEMENT CAUSED BY SAWCUT OPERATIONS AND REPLACE PER TYPICAL SECTION.

Item	Description	Unit	D-1	D-2	D-3	D-4	P-1	P-2	P-3	P-4	P-5	P-6	R-1	R-2	R-3	R-4	R-5	R-6	R-7	S-1	W-1	W-2	W-3	W-4	Totals
SPECIAL	CONCRETE BUS PAD	S.Y.					98																		98
901	12" CONCRETE PIPE WITH TYPE I BEDDING, CLASS IV	L.F.	9	11	11	12																			43
816	1-1/2" WATER SERVICE TAP RELOCATED	EA.																				1			1
816	3/4" WATER SERVICE TAP RELOCATED	EA.																						1	1
809	FIRE HYDRANT, RELOCATED	EA.																				1			1
808	RELOCATE 8" WATER LINE	L.F.																					24		24
807	VALVE BOXES ADJUSED TO GRADE	EA.																			10				10
802	6" VALVE AND APPURTENANCES	EA.																				1			1
609	18" STRAIGHT CONCRETE CURB	L.F.							22	39		17													78
608	CONCRETE WALK (4")																			202					
604	CURB & GUTTER INLET AA-S125	EA.	1	1	1	1																			4
604	MANHOLE, TYPE C	EA.		1	1																				2
452	8" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT	S.Y.						25	31		59	43													158
304	AGGREGATE BASE	C.Y.									7	1													8
202	CONCRETE FOUNDATION REMOVED	EA.																	2						2
202	LIGHT POLE REMOVED	EA.														1	1		2						4
202	SPAN WIRE POLE REMOVED	EA.												2											2
202	PIPE REMOVED	L.F.	8																						8
202	PAVEMENT REMOVED	S.Y.						13	17		29	38							47						178
202	SIDEWALK REMOVED	S.F.															183		50						233
202	PULL BOX REMOVED	EA.											1					1							2
202	CATCH BASIN REMOVED	EA.	2	1	1	1										1									6
202	CURB AND GUTTER REMOVED	L.F.													236										236
202	POLE REMOVED	EA.												1		1	1	1	1						5
202	CURB REMOVED	L.F.							40		57	16			153				126						392

REF NO.	STATION FROM	STATION TO	SIDE
D-1	17+60		RT.
D-2	21+03		LT.
D-3	51+13		LT.
D-4	51+23(LIVINGSTON)		RT.
P-1	17+75	18+55	LT.
P-2	18+00		RT.
P-3	18+20.53		RT.
P-4	18+72	19+11	RT.
P-5	50+68.50		RT.
P-6	20+61.30		RT.
R-1	17+65		RT.
R-2	17+74		LT./RT.
R-3	0+62(ARAGON)	51+47(LIVINGSTON)	LT./RT.
R-4	18+20	18+26	RT.
R-5	17+10	51+50(LIVINGSTON)	RT.
R-6	51+37		LT.
R-7	48+87	20+63 (HAMILTON)	LT.
S-1	17+08	19+10	RT.
W-1	16+78	21+75	LT./RT.
W-2	49+34		RT.
W-3	20+91	21+15	LT.
W-4	51+38		LT.
TOTALS CARRIED TO SHEET NO. 11			

HORIZ. SCALE 0 25 50

CALCULATED | CHECKED

PLAN & SUBSUMMARY
STATION TO STATION

PROJECT NAME

X / XX

XXXX–E

REVISED 11/7/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\09_02 PLAN WITH SUB-SUMMARY (CIP).dwg (Plan with Sub-Sum)

SEEDING END WIDTH	SEEDING YDS.
31	63 <3> Lt (35) Rt
39	135 (7) Rt <14> Rt
31	86 <15> Rt
33	167 <34> Rt
29	
34	
	377 Total

C/L Survey & Construction

60 50 40 30 20 10 0 10 20 30 40 50 60

845 / 840 / 835

Prop Work Limits & Temp Esmt
Prop Fence
Prop Wall
Ex R/W
Prop 10' Shared Use Path
Prop Grade
Prop Crown 3.50' Rt. 841.39
Ex Asphalt Driveway (TBR)
8" P.C.C.P. Commercial Driveway
5.0%
1.56%
6.3%
Ex R/W
Type IIIA (Asphalt) Driveway Pavement Replacement (Comm)
Prop Work Limits & Temp Esmt
Ex 6" Gas (DND)
Ex 1 1/2" W (TBA)
Prop 12" W
841.34
125+00
842.0
Prop. 58"x91" Stm.
Ex 8" W (TBA)

Prop Work Limits & Temp Esmt
Prop Fence
Ex R/W
Prop Wall
Prop 10' Shared Use Path
Prop Grade
Prop Crown 3.50' Rt. 841.26
Ex Aggregate Shoulder (TBR)
Prop Guardrail
Prop 5' Walk
Prop Fence
Ex R/W
Prop Work Limits & Temp Esmt
Ex Fence (DND)
Prop Wall
Prop Rock Channel Protection
Ex Rock Channel Protection (DND)
Ex 15" Stm (TBR)
Ex 6" Gas (DND)
Prop. 18" Stm.
Prop 12" W
841.21
124+72
841.6
Ex 8" San (DND)

Prop Work Limits & Ex R/W
Prop 10' Shared Use Path
Ex Aggregate Shoulder (TBR)
Prop Grade
Prop Crown 3.50' Rt. 841.13
Ex Aggregate Shoulder (TBR)
Prop Guardrail
Ex 8" W (TBR)
Prop 5' Walk
Prop Fence
Ex R/W
Prop Work Limits & Temp Esmt
Prop Wall
Ex 6" Gas (DND)
Prop. 18" Stm.
Prop 12" W
841.08
124+50
841.3
Ex 15" Stm (TBA)
Ex 8" W (TBR)
Ex 8" San (DND)

Prop Work Limits & Ex R/W
Prop 10' Shared Use Path
Ex Aggregate Shoulder (TBR)
1.56%
Prop Crown 3.50' Rt. 840.88
Prop Grade
Ex Aggregate Shoulder (TBR)
1.56%
Prop Guardrail
Prop 5' Walk
Prop Fence
Ex R/W
Prop Work Limits & Temp Esmt
Prop Wall
Ex Fence (TBR)
Ex 6" Gas (DND)
Ex 15" Stm (DND)
840.83
124+00
840.7
Ex 12" W (DND)
Ex 8" W (TBR)
Ex 12" San (TBR)
Prop 12" San

Prop Work Limits & Ex R/W
Prop 5' Asphalt Path
840.87
840.79
3:1
2% Swale
840.35
10:1
15.72' Lt.
Prop 8" Aggregate Berm
1.51%
Prop Crown 3.50' Rt. 840.83
Prop Grade
Ex Aggregate Shoulder (TBR)
2.03%
Prop 8" Aggregate Berm
Prop Guardrail
Ex R/W
839.62
12:1
3:1
Prop Work Limits & Temp Esmt
Ex Aggregate Shoulder (TBR)
Ex 6" Gas (DND)
Ex 15" Stm (DND)
Ex 8" W (TBR)
Ex Fence (TBR)
840.78
123+90
840.6
Ex 12" W (DND)
Ex 12" San (TBR)
Prop 12" San

LEGEND
Prop. Grade @ C/L Construction → 855.84
Street Name Sta. @ C/L → 132+50
Ex. Grade @ C/L Construction → 855.8

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
82	29		
		73	49
58	66		
		48	35
59	20		
		104	36
53	19		
		18	6
43	11		
		66	16
		309	142

HORIZ. 5 0 2.5 — VERTICAL SCALE 5 0 2.5

CALCULATED

CHECKED

CROSS SECTIONS STREET NAME 1
STA. 123+50 TO STA. 125+00

PROJECT NAME

SHEET TOTAL

XXXX-E

X
XX

REVISED 12/2/11

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\10_01 CROSS-SECTION.dwg (X-Sect 1)

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

SCALE
0
SCALE
HORIZONTAL SCALE IN FEET

60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60

910 905 900

ROW
29.00' LT.
907.16
3.45%
° EX. GAS
EX. WTR
3.09%
29.00' RT.
907.13
ROW
prop. 16" water
906.45
110+00
906.6

ROW
29.00' LT.
907.04
DRIVE
7.43%
° EX. GAS
EX. WTR
prop. 16" water
ex. CL Fence
ROW
906.28
109+60.96
906.5
STA.
ELEV.
6.2%
2.63%
1.56%
3.3%
Dive Profile
109+58.8

ROW
29.00' LT.
906.96
3.73%
° EX. GAS
EX. WTR
2.87%
29.00' RT.
906.88
prop. 16" water
ex. CL Fence
ROW
906.22
109+50
906.4

ROW
29.00' LT.
906.77
2.97%
° EX. GAS
EX. WTR
DRIVE
6.61%
X.X %
29.00' RT.
906.79
X.X %
ROW
STA.
ELEV.
TEMP. EASEMENT
prop. 16" water
906.11
109+16.38
906.2

ROW
29.00' LT.
906.77
3.17%
° EX. GAS
EX. WTR
EX. STM INLET
STA. 109+00, 15' LT.
RIM = 906.17
W 18" = 902.97
E 15" = 903.32
2.92%
29.00' RT.
906.74
ROW
prop. 16" water
EX. STM INLET
STA. 109+00, 15' RT.
RIM = 906.33
W 15" = 903.48
906.09
109+00
906.2

CROSS SECTION
STATION TO STATION

PROJECT NAME

XXXX-E

X
XX

REVISED 12/2/11

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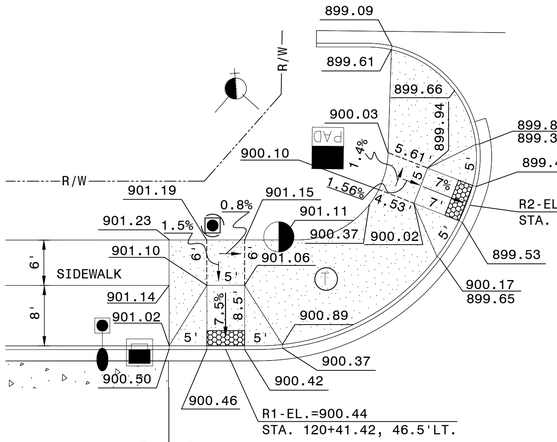
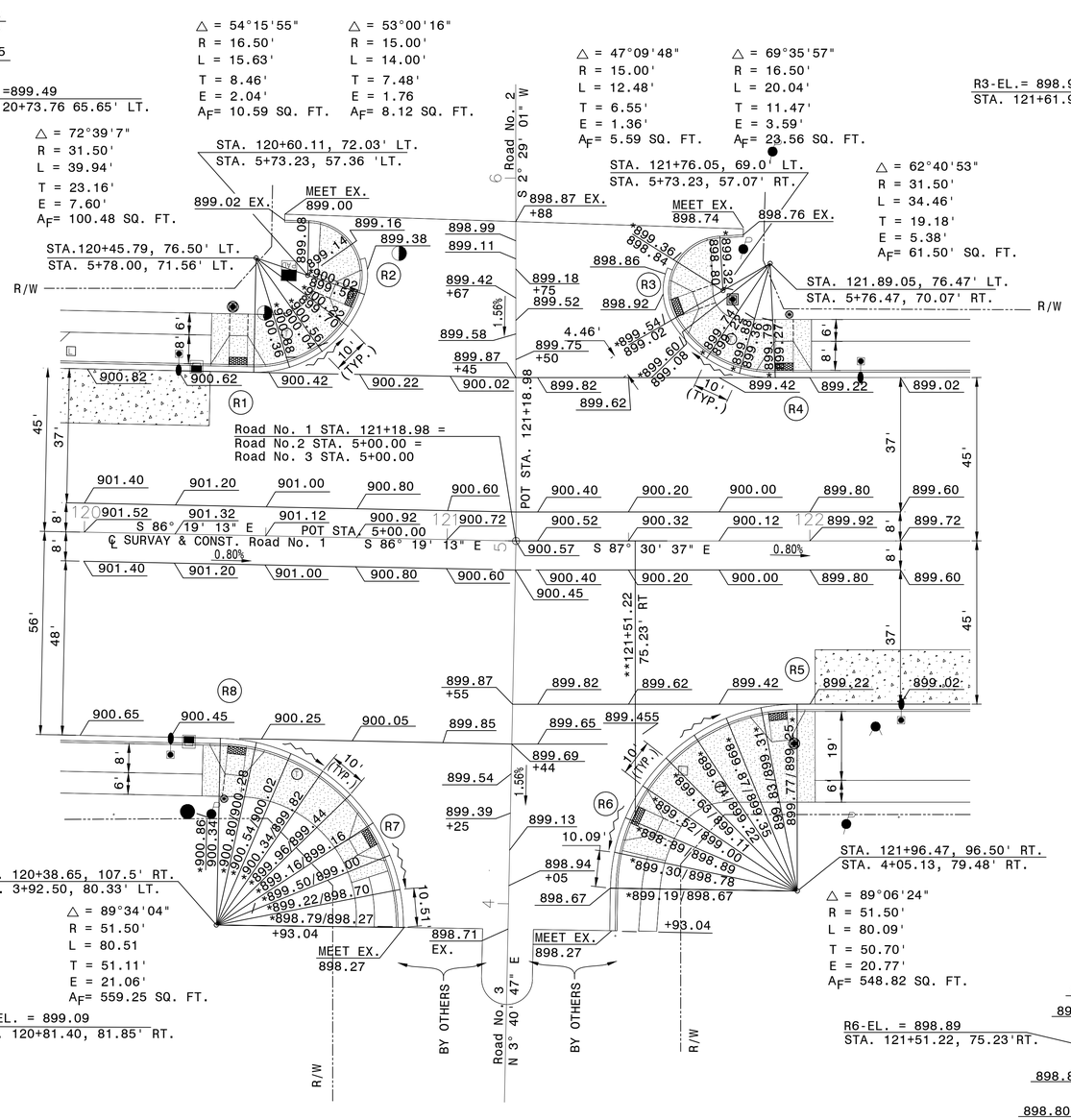
NOTES:

1.** CENTERLINE OF RAMP SHALL BE SET WITH STATION/OFFSET; PROJECT LINE PERPENDICULAR TO CENTERLINE OF ROAD TO ARRIVE AT THE RAMP CENTERLINE STATION.
2. 8" WALK SHALL BE PLACED AT THE INTERSECTIONS OF ARTERIAL ROADWAYS PER STD DWG 2303



SCALE 1" = 10'

** FINAL FOUNDATION ELEVATION DETERMINED BY SIDEWALK PLACEMENT. SEE DETAIL ON SHEET 252.

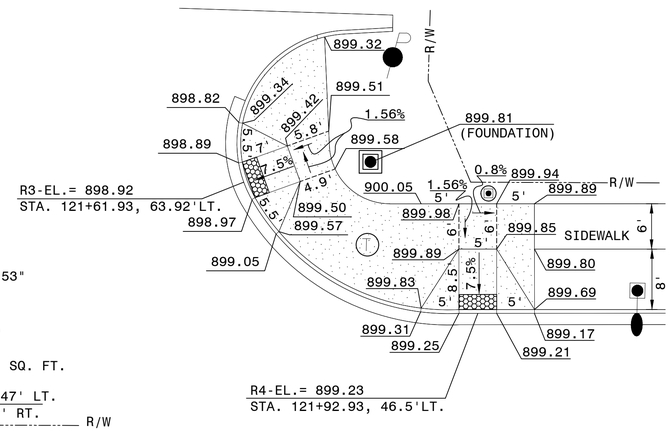


Road No. 1 AT Road No. 2/Road No. 3.

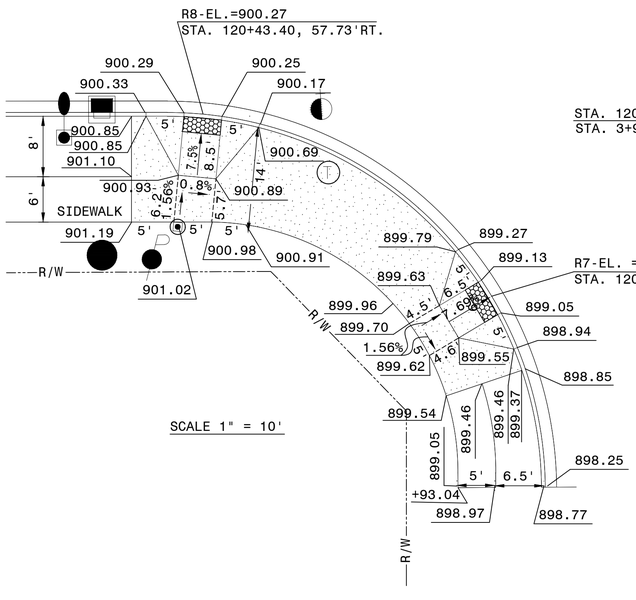
SCALE 1" = 20'

*= TC ELEVATION/EP ELEVATION

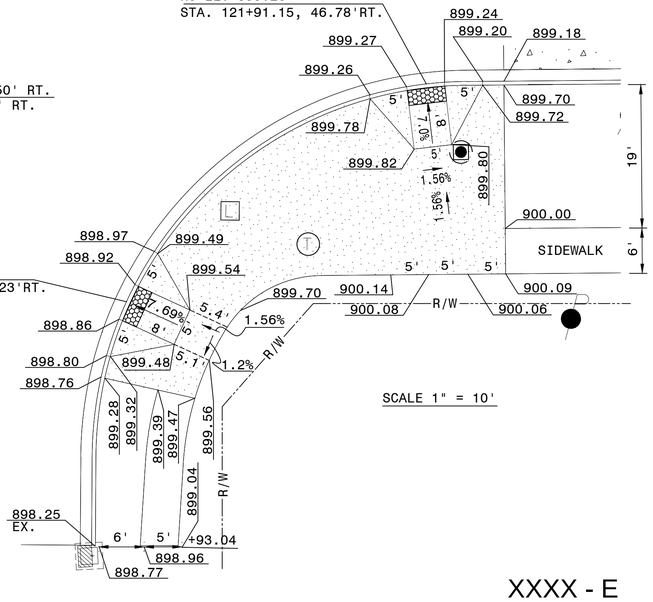
*= TC ELEVATION/
EP ELEVATION



SCALE 1" = 10'



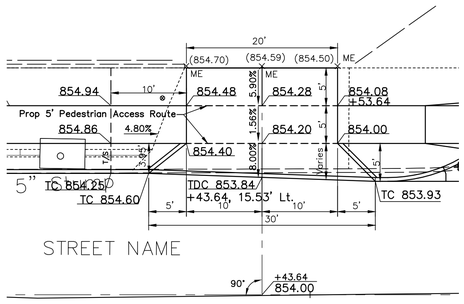
SCALE 1" = 10'



SCALE 1" = 10'

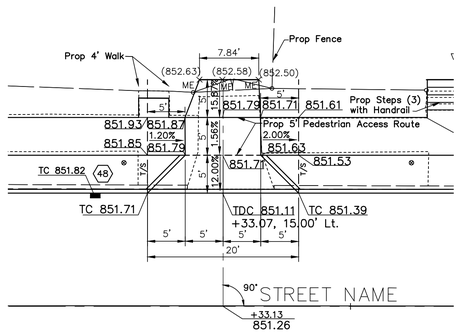
REVISED 10/31/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\11_01 DETAIL Intersection & Ramp.dwg (Intersection & Ramp)



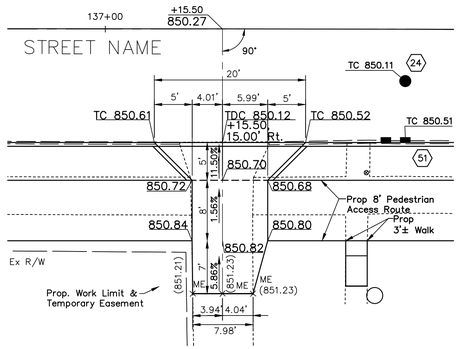
Commercial Drive @ 134+43.64 Lt.

Scale: 1"=10'



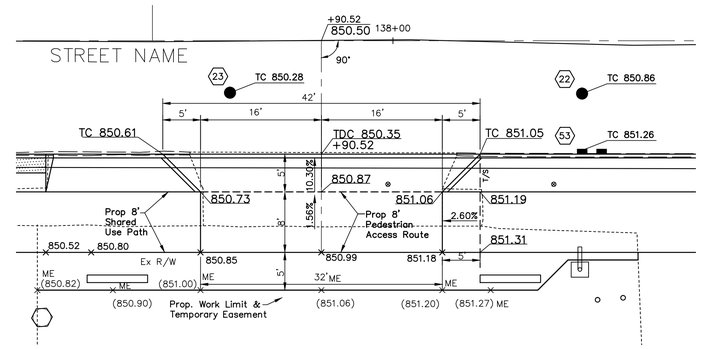
Residential Drive @ 136+33.13 Lt.

Scale: 1"=10'



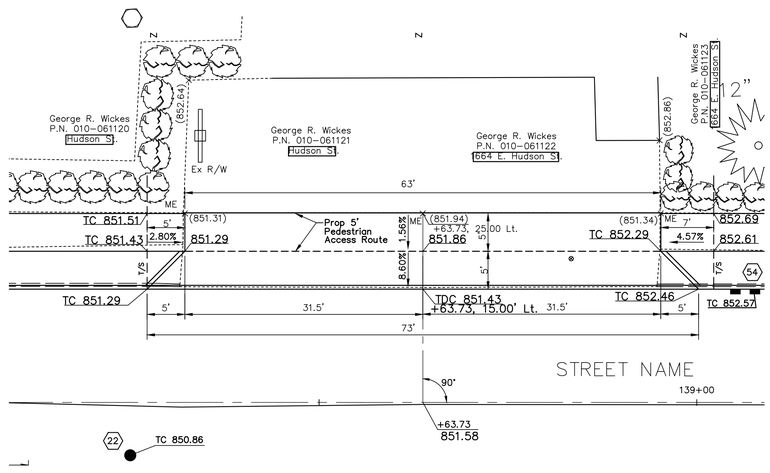
Residential Drive @ 137+15.50 Rt.

Scale: 1"=10'



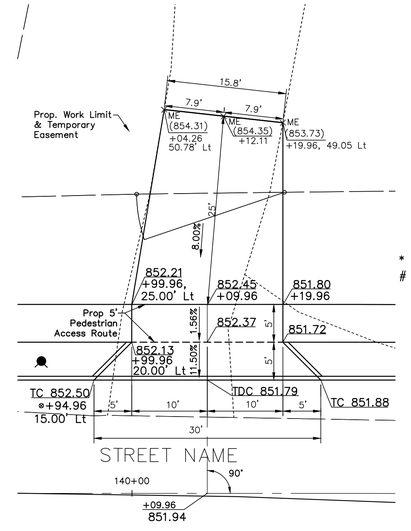
Commercial Drive @ 137+90.52 Rt.

Scale: 1"=10'



Commercial Drive @ 138+63.73 Lt.

Scale: 1"=10'



Commercial Drive @ 140+09.96 Lt.

Scale: 1"=10'

LEGEND

XXX.XX	Proposed Elevations
(XXX.XX)	Existing Elevations
XXX.XX / +XX	Proposed Pavement Crown/Walk Elevation, Proposed Station
TC XXX.XX / +XX	Proposed Top of Curb Elevation, Proposed Station
EP XXX.XX / +XX	Proposed Edge of Pavement Elevation, Proposed Station
TC	Top of Casting
T/S	Match Typical Section Grades
ME	Match Existing

* Actual elevation is 0.44' lower due to driveway cutout.
\# Taper curb height from 6" to at walk with 1:10 flare.

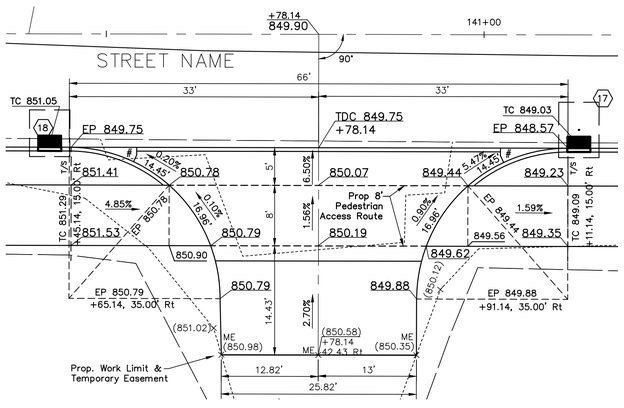
PAVEMENT DETAIL NOTES

Curb return and taper data is shown to face of curb in curb areas and edge of pavement in pavement areas.

All elevations shown are to finished pavement unless otherwise noted.

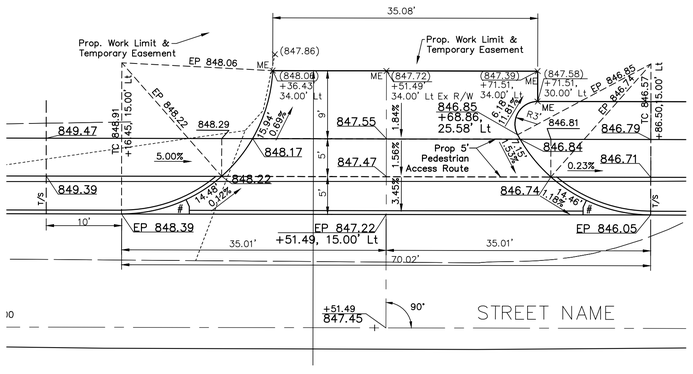
Curve Data Table

Ref. Letter	Δ	R	T	L	E	M	A	Rad. Pt. Sta./ Offset Street Name
A	90°00'00"	20.00'	20.00'	31.42'	8.28'	5.86	86 SF	140+45.14, 35.00' Rt.
B	90°00'00"	20.00'	20.00'	31.42'	8.28'	5.86'	86 SF	141+11.14, 35.00' Rt.
C	87°08'01"	20.00'	19.02'	30.42'	7.60'	5.50'	76 SF	141+16.45, 35.00' Lt.
D	61°54'58"	20.00'	12.00'	21.61'	3.32'	2.85'	24 SF	141+86.50, 35.00' Lt.



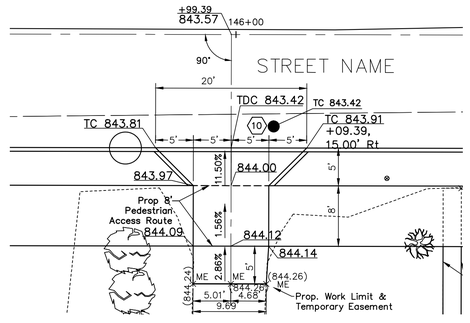
Commercial Drive @ 140+78.14 Rt.

Scale: 1"=10'



Commercial Drive @ 141+51.49 Lt.

Scale: 1"=10'



Residential Drive @ 145+99.39 Lt.

Scale: 1"=10'

REVISED 5/16/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\11_05 Detail Drive (CIP).dwg (Detail Drive (CIP))

HORIZ. SCALE 10 0 5 10

CALCULATED | CHECKED

DRIVEWAY

PROJECT NAME

XXXX-E

X/XX

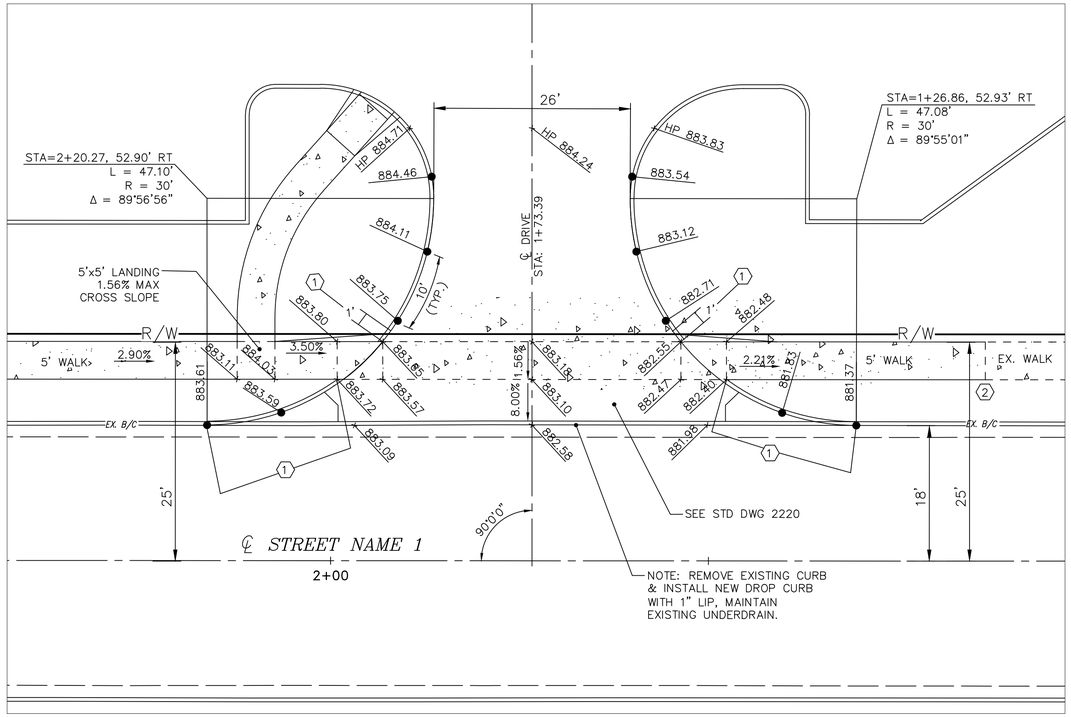
LEGEND

NOTES:
ALL SPOT ELEVATIONS SHOWN ALONG THE CURB REPRESENT THE BOTTOM OF CURB ELEVATION.

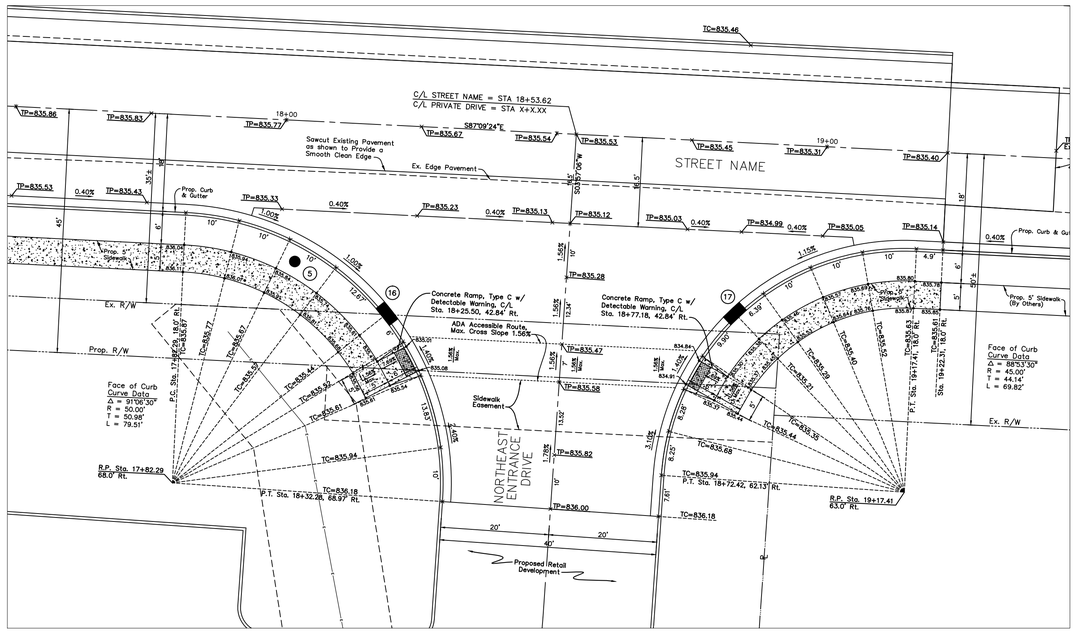
CONCRETE

KEYED NOTES:
(1) TAPER CURB FROM 6" TO 0" IN DISTANCE SHOWN

(2) SAWCUT EXISTING SIDEWALK AT NEAREST JOINT & INSTALL EXPANSION JOINT



DETAIL – DRIVE STREET NAME 1 @ STATION 1+73.39



DETAIL – DRIVE STREET NAME 1 @ STATION 18+53.62

5 0 5 10 15

CALCULATED ABC
CHECKED ABC

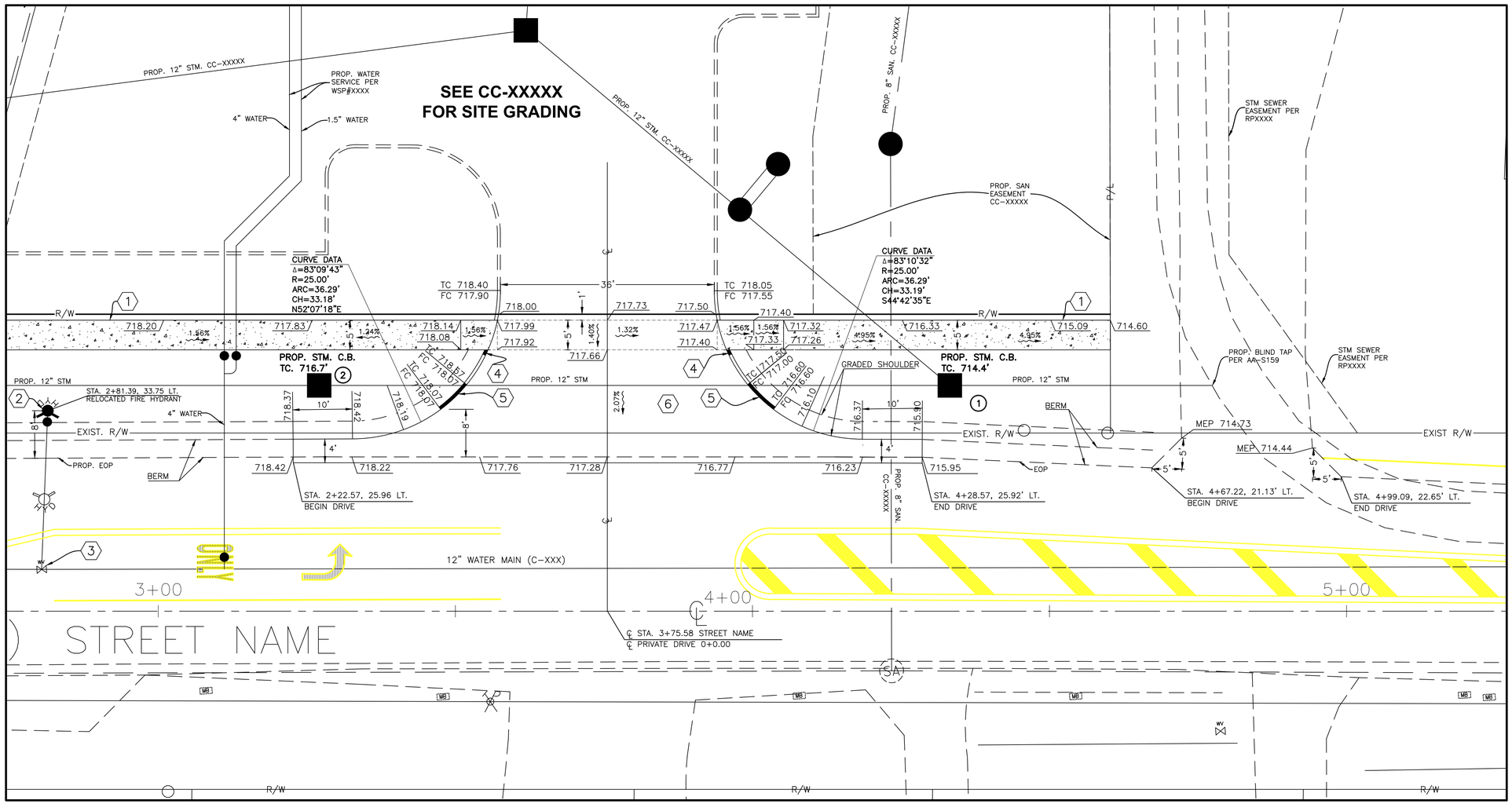
DETAIL–DRIVE CURBED STREET

PROJECT NAME

X
XX

XXXX–E

Revised 5/12/14
J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\11_10 Detail Drive (Curbed Road).dwg (Detail-Drives (Curbed Road))



PROPOSED STORM STRUCTURES

REFERENCE SHEET	NO.	STATION	OFFSET	DESCRIPTION
17	1	4+33.22	38.0' LT	CATCH BASIN, AA-S133
17	2	3+27.08	38.0' LT	CATCH BASIN, AA-S133

DETAIL - DRIVE - STREET NAME @ ℄ STA. 3+75.58

SCALE: 1"=10'

KEYED NOTES

1. PROPOSED STANDARD SIDEWALK PER STD DWG 2300.
2. PROPOSED FIRE HYDRANT (TYPE 'A'). CONTRACTOR TO REUSE EXISTING FIRE HYDRANT IF PERMITTED BY DOPW (WATER).
3. EXISTING WATER VALVE. ADJUST TO GRADE.
4. TAPER CURB FROM 6" TO 0" OVER 2'
5. TAPER CURB FROM 6" TO 0" OVER 6'
6. PAVEMENT BUILDUP FOR DRIVE PER STD DWG 2208
   - ITEM 448 – 4" Asphalt Concrete, Surface Course (Medium Traffic) PG64-22
   - ITEM 448 – 4" Asphalt Concrete, Intermediate Course (Medium Traffic) PG64-22
   - ITEM 304 – 4" Aggregate Base

STANDARD ABBREVIATIONS

XXX.XX	= PROPOSED PAVEMENT GRADE ELEVATION
TC XXX.XX / FC XXX.XX	= PROPOSED TOP OF CURB/FACE OF CURB ELEVATION
METC XXX.XX	= MEET EXISTING TOP OF CURB
MEP XXX.XX	= MEET EXISTING PAVEMENT
EX XXX.XX	= EXISTING GRADE
EX XXX.XX(TC)	= EXISTING TOP OF CURB GRADE

LEGEND

SA	EXIST. SANITARY MANHOLE
ST	EXIST. STORM MANHOLE
	EXIST. CATCH BASIN
GV	EXIST. GAS VALVE
WV	EXIST. WATER VALVE
	EXIST. FIRE HYDRANT
	EXIST. POWER POLE
	EXIST. LIGHT POLE
	EXIST. GUY POLE
	EXIST. TRAFFIC SIGN
	EXIST. TRAFFIC LIGHT
OTL OEL	EXIST. OVERHEAD ELECTRIC/TELEPHONE LINE
Ex GAS	EXIST. GAS LINE
Ex San	EXIST. SANITARY LINE
Ex Storm	EXIST. STORM LINE
Ex Water	EXIST. WATER LINE

HORIZ. SCALE 50 0 25 50

CALCULATED | CHECKED

DETAIL – DRIVE
NON-CURBED STREET

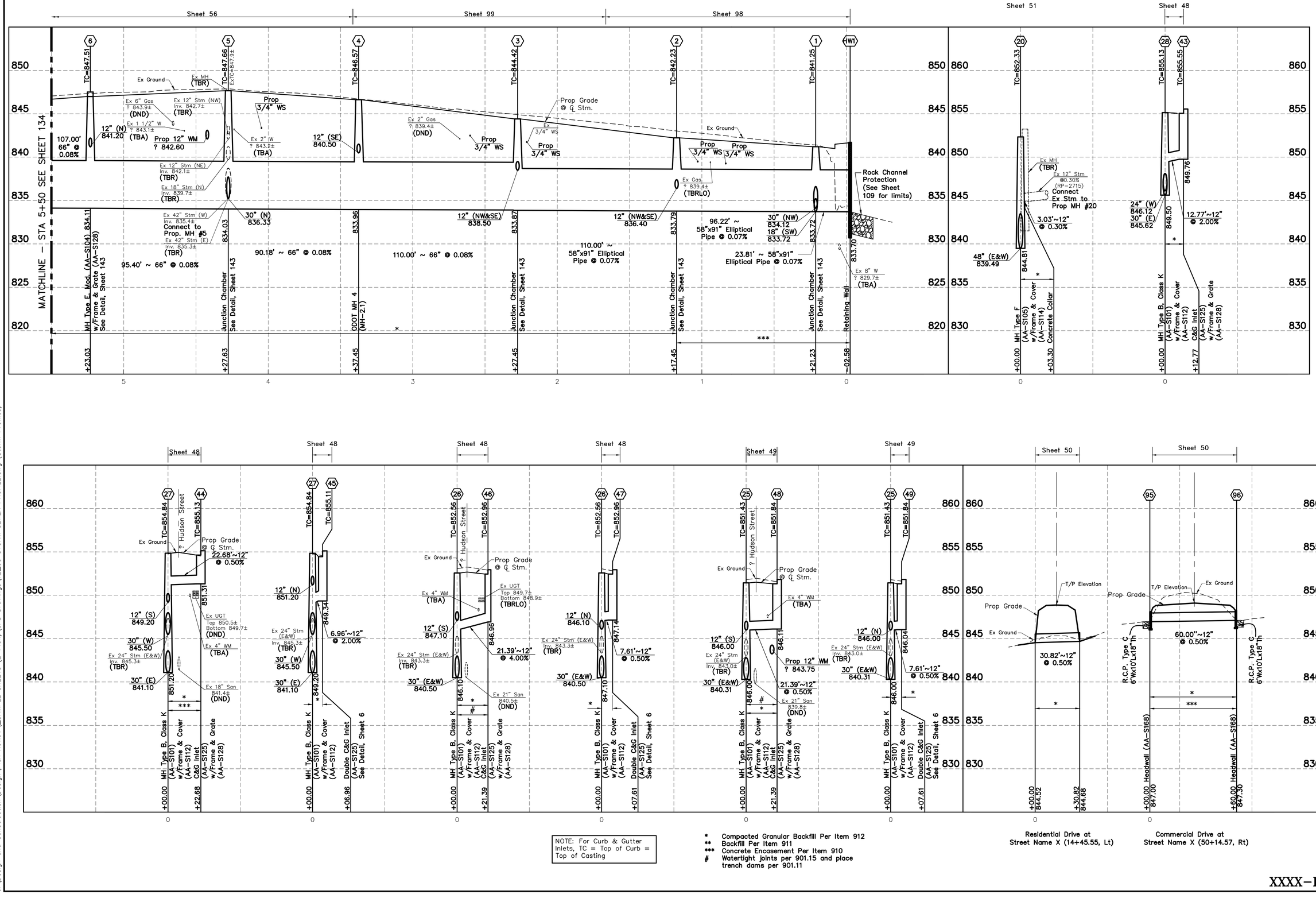
PROJECT NAME

X/XX

XXXX-E

Revised 5/16/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\11_11 Detail Drive (Non-Curbed Road).dwg (Detail-Drives (Non-Curbed Road))



NOTE: For Curb & Gutter Inlets, TC = Top of Curb = Top of Casting

* Compacted Granular Backfill Per Item 912
** Backfill Per Item 911
*** Concrete Encasement Per Item 910
\# Watertight joints per 901.15 and place trench dams per 901.11

HORIZ. 30 0 30 VERTICAL SCALE 5 0 15 2.5 5

CALCULATED | CHECKED

STORM SEWER PROFILES

PROJECT NAME

XXXX-E

REVISED 11/3/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\12_05 STORM SEWER PROFILE.dwg (Storm Profiles)

STORM SEWER COORDINATE DATA							
		PROPOSED			AS BUILT		
PHASE	STRUCTURE	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION
1	HW1	765443.1428	1868084.5487	XXX.XX			
	1	765463.1414	1868119.1381	XXX.XX			
	2	765515.8380	1868140.5214	XXX.XX			
	3	765623.4468	1868144.0679	XXX.XX			
	4	765641.4017	1868016.9000	XXX.XX			
	5	765744.2256	1868022.9199	XXX.XX			
	6	765854.9803	1868029.4042	XXX.XX			
	7	765950.8717	1868035.0182	XXX.XX			
	8	766068.6700	1868041.9149	XXX.XX			
	9	766234.4419	1868051.6202	XXX.XX			
	10	766227.4869	1868170.4167	XXX.XX			
	11	766296.3689	1868174.4495	XXX.XX			
	12	766387.2134	1868179.7681	XXX.XX			
	13	766394.1684	1868060.9715	XXX.XX			
	14	766551.8983	1868070.2060	XXX.XX			
2	15	766645.0399	1868075.6591	XXX.XX			
	16	766745.6008	1868080.9619	XXX.XX			
	17	766851.6598	1868083.0556	XXX.XX			
1	18	765453.6270	1868144.5450	XXX.XX			
	19	765442.5894	1868173.5139	XXX.XX			
	20	765387.2464	1868171.8527	XXX.XX			
	21	765622.4240	1868161.5380	XXX.XX			
	22	765620.6121	1868192.4850	XXX.XX			
	23	765846.5320	1868174.6587	XXX.XX			
	24	765844.7202	1868205.6057	XXX.XX			
	25	766214.9569	1868196.2285	XXX.XX			
	26	766213.1450	1868227.1755	XXX.XX			
	27	766294.8201	1868200.9042	XXX.XX			
	28	766293.0083	1868231.8512	XXX.XX			
2	29	766752.6450	1868833.2432	XXX.XX			
	30	766758.9864	1868724.9287	XXX.XX			
	31	766760.7982	1868693.9817	XXX.XX			
	32	766761.8650	1868675.7609	XXX.XX			
	33	766768.4254	1868563.7047	XXX.XX			
	34	766826.3468	1868566.7439	XXX.XX			
	35	766777.8152	1868403.3220	XXX.XX			
	36	766837.9665	1868402.4935	XXX.XX			
	37	766943.0988	1868403.6609	XXX.XX			
	38	766723.1954	1868831.5190	XXX.XX			
	39	766692.2484	1868829.7072	XXX.XX			
	40	767113.2193	1868697.0844	XXX.XX			
	41	766732.9559	1868664.8045	XXX.XX			
	42	766702.0089	1868662.9927	XXX.XX			
	43	766732.5518	1868402.2517	XXX.XX			
	44	766702.8258	1868411.0473	XXX.XX			
	45	766845.1246	1868280.2281	XXX.XX			
1	Ex 4	765278.0020	1867824.6270	XXX.XX			
	46	765276.6194	1867844.5792	XXX.XX			
	47	765325.3081	1867876.0976	XXX.XX			
	EW1	765356.7696	1867896.4641	XXX.XX			
	Ex 2	765374.4739	1867690.9458	XXX.XX			
	48	765501.2345	1867710.4558	XXX.XX			
	HW2	765509.1319	1867762.5710	XXX.XX			

STORM SEWER DATA				
PHASE	STRUCTURE	DIRECTION	DISTANCE	SIZE
1	HW1-1	N 59°57'53" E	39.95'	36"
	1-2	N 22°05'11" E	56.87'	36"
	2-3	N 01°53'16" E	107.67'	30"
	3-4	N 81°57'49" W	128.43'	30"
	4-5	N 03°21'02" E	103.00'	30"
	5-6	N 03°21'02" E	110.94'	30"
	6-7	N 03°21'02" E	96.06'	30"
	7-8	N 03°21'02" E	118.00'	30"
	8-9	N 03°21'02" E	166.06'	30"
	9-10	S 86°38'58" E	119.00'	24"
	10-11	N 03°21'02" E	69.00'	24"
	11-12	N 03°21'02" E	91.00'	24"
	12-13	S 86°38'58" E	119.00'	24"
	13-14	N 03°21'02" E	158.00'	18"
2	14-15	N 03°21'02" E	93.30'	15"
	15-16	N 03°01'07" E	100.70'	15"
	16-17	N 01°07'51" E	106.08'	15"
1	1-18	S 69°28'12" E	27.13'	18"
	18-19	S 69°28'12" E	31.00'	15"
	19-20	S 01°43'10" W	55.37'	12"
	3-21	N 86°38'58" W	17.50'	12"
	21-22	S 86°38'58" E	31.00'	12"
	6-23	S 86°40'17" E	145.50'	12"
	23-24	S 86°38'58" E	31.00'	12"
	10-25	S 64°06'23" E	28.69'	12"
	25-26	S 86°38'58" E	31.00'	12"
	11-27	S 86°38'58" E	26.50'	15"
	27-28	S 86°38'58" E	31.00'	12"
2	Ex 3B-29	N 86°38'58" W	17.00'	36"
	29-30	N 86°38'58" W	108.50'	36"
	30-31	N 86°38'58" W	31.00'	36"
	31-32	N 86°38'58" W	18.25'	36"
	32-33	N 86°38'58" W	112.25'	36"
	33-34	N 03°00'13" E	58.00'	30"
	33-35	N 86°38'58" W	160.66'	30"
	35-36	N 00°47'21" W	60.16'	24"
	36-37	N 00°38'10" E	105.14'	24"
	29-38	S 03°21'02" W	29.50'	12"
	38-39	S 03°21'02" W	31.00'	12"
	32-40	N 03°28'23" E	352.00'	15"
	32-41	S 20°45'23" W	30.92'	12"
	41-42	S 03°21'02" W	31.00'	12"
	35-43	S 01°21'16" W	45.28'	12"
	43-44	S 16°28'58" E	31.00'	12"
	36-45	N 86°38'58" W	122.47'	12"
1	Ex 4-46	S 86°02'09" E	20.00'	24"
	46-47	N 32°55'01" E	58.00'	18"
	47-EW1	N 32°55'01" E	37.48'	12"
	Ex 2-48	N 8°44'59" E	128.25'	18"
	48-HW2	N 81°22'59" E	52.71'	12"

* Horizontal Reference Datum = NAD 83 (1986 Adj.) (Ohio South Zone)

REVISED 12/2/11

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\12-10 COORDINATE DATA (STORM).dwg (Coord Data)

HORIZ. SCALE

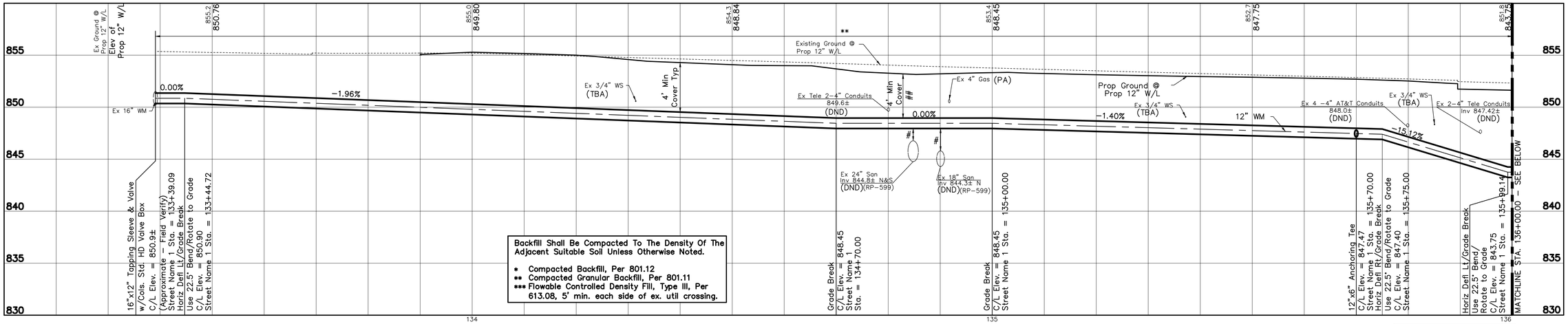
CALCULATED | CHECKED

STORM SURVEY COORDINATE DATA

PROJECT NAME

XXXX-E

X/XX



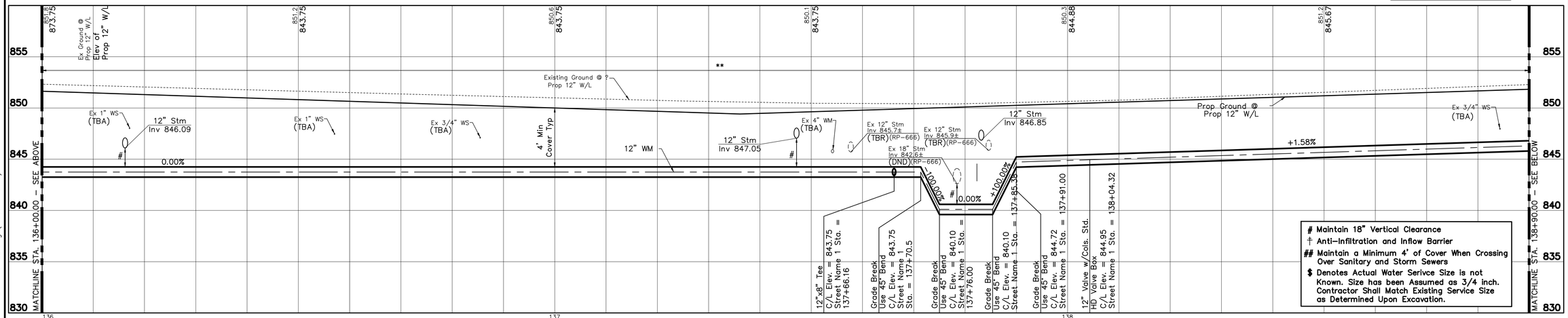
Backfill Shall Be Compacted To The Density Of The Adjacent Suitable Soil Unless Otherwise Noted.

* Compacted Backfill, Per 801.12
** Compacted Granular Backfill, Per 801.11
*** Flowable Controlled Density Fill, Type III, Per 613.08, 5' min. each side of ex. util crossing.

Street Name 1 – Sta. 133+39.44 to Sta. 136+00.00

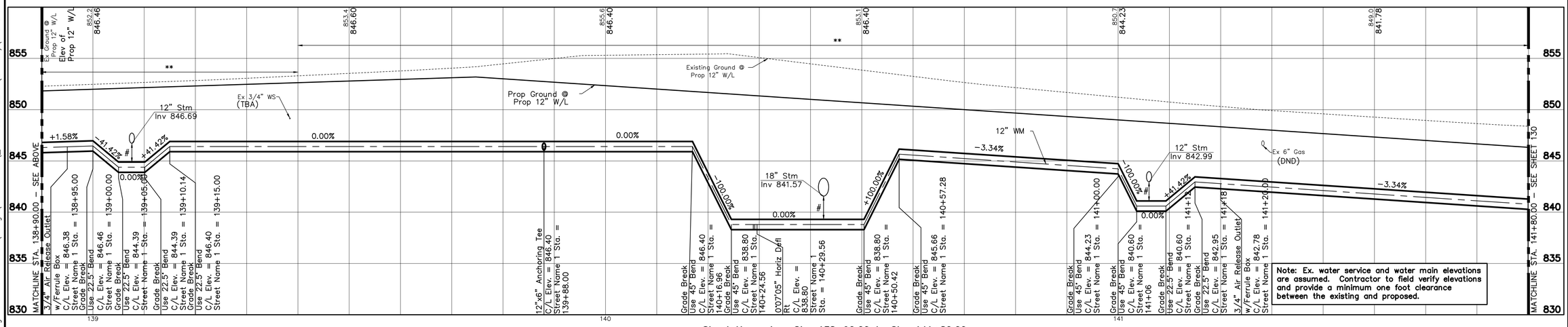
NOTE TO CONSULTANTS:

SCALE OF PROFILE SHOULD MATCH PLAN VIEW



Maintain 18" Vertical Clearance
† Anti-Infiltration and Inflow Barrier
Maintain a Minimum 4' of Cover When Crossing Over Sanitary and Storm Sewers
$ Denotes Actual Water Serivce Size is not Known. Size has been Assumed as 3/4 inch. Contractor Shall Match Existing Service Size as Determined Upon Excavation.

Street Name 1 – Sta. 136+00.00 to Sta. 138+90.00



Note: Ex. water service and water main elevations are assumed. Contractor to field verify elevations and provide a minimum one foot clearance between the existing and proposed.

Street Name 1 – Sta. 138+90.00 to Sta. 141+80.00

REVISED 6/25/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\13_01 WATER PROFILE.dwg (Water Profile)

HORIZ. 10 0 5 10
VERTICAL SCALE 5 0 5 2.5

CALCULATED

CHECKED

WATER PROFILE – STREET NAME 1 – STA. 133+39.44 TO STA. 141+80.00

PROJECT NAME

XXXX–E

STREET NAME 1					
See Sheet 48			AS-BUILT		
REF	ITEM	STATION	NORTHING	EASTING	ELEVATION
1	16"x12" Tapping Sleeve	133+39.09			
2	12" Water Main Valve	133+39.00			
3	12" 22.5° Bend (Horiz)	133+44.72			
4	3/4" WS (Short) (ADDRESS)	134+30.00	*	*	*
5	Grade Break Use Joint Defl (Vert)	134+70.00			
6	Grade Break Use Joint Defl (Vert)	135+00.00			
7	3/4" WS (Long) (ADDRESS)	135+23.00			
See Sheet 49	STREET NAME 1				
2	3/4" WS (Short) (ADDRESS)	135+38.00			
3	3/4" WS (Long) (ADDRESS)	135+57.00			
4	12"x6" Anchor Tee	135+70.00			
5	6" Fire Hydrant Valve	135+70.00			
6	Fire Hydrant	135+75.60			
7	3/4" WS (Long) (ADDRESS)	135+95.00			
8	12" 22.5° Bend (Horiz)	135+99.14			
9	1" WS (Short) (ADDRESS)	136+20.00			
	3/4" WS (Long) (ADDRESS)	136+28.00			
10	1" WS (Short) (ADDRESS)	136+58.00			
11	3/4" WS (Long) (ADDRESS)	136+68.00			
12	3/4" WS (Short) (ADDRESS)	136+85.00			
See Sheet 50	STREET NAME 1				
1	3/4" WS (Long) (ADDRESS)	137+34.00			
2	12"x8" Tee	137+66.16			
3	12" 45° Bend (Vert)	137+71.35			
4	12" 45° Bend (Vert)	137+75.00			
5	12" 45° Bend (Vert)	137+85.38			
6	12" 45° Bend (Vert)	137+90.00			
7	3/4" WS (Long) (ADDRESS)	137+99.00			
8	12" Water Main Valve w/ Cols. Std HD Valve Box	138+04.32			
9	3/4" WS (Long) (ADDRESS)	138+21.00			
10	3/4" WS (Short) (ADDRESS)	138+83.00			
11	3/4" ARO w/ Ferrule Box	138+95.00			
12	12" 22.5° Bend (Vert)	139+00.00			
13	12" 22.5° Bend (Vert)	139+05.00			
14	12" 22.5° Bend (Vert)	139+10.14			
15	12" 22.5° Bend (Vert)	139+15.00			
See Sheet 51	STREET NAME 1				
1	3/4" WS (Short) (ADDRESS)	139+37.00			
2	12"x6" Anchor Tee	139+88.00			
3	6" Fire Hydrant Valve	139+88.00			
4	Fire Hydrant	139+93.00			
5	Horiz Bend Use Joint Defl	140+29.56			
6	12" 45° Bend (Vert)	140+50.42			
7	12" 45° Bend (Vert)	140+57.28			
8	12" 45° Bend (Vert)	141+00.00			
9	12" 45° Bend (Vert)	141+03.63			
10	12" 45° Bend (Vert)	141+09.32			
11	12" 45° Bend (Vert)	141+15.00			
12	3/4" ARO w/ Ferrule Box	141+20.00			
See Sheet 52	STREET NAME 1				
1	12" 11.25° Bend (Vert)	142+12.27			
2	12"x8" Tee	142+17.55			
3	2" WS (Long) (ADDRESS)	142+21.00			
4	12" 11.25° Bend (vert)	142+46.46			
5	12" 45° Bend (Vert)	142+61.30			
6	12" 45° Bend (Vert)	142+65.00			
7	12" Water Main Valve w/ Cols. Std HD Valve Box	142+74.09			
See Sheet 55	STREET NAME 1				
1	12" 22.5° Bend (Vert)	147+27.50			
2	12" 22.5° Bend (Vert)	147+32.67			
3	3/4" WS (Long) (ADDRESS)	147+73.00			
4	3/4" WS (Short) (ADDRESS)	147+76.00			
5	3/4" WS (Long) (ADDRESS)	147+87.00			
6	12" 22.5° Bend (Vert)	147+98.73			
7	12" 22.5° Bend (Vert)	148+02.50			
8	12" 22.5° Bend (Vert)	148+07.50			
9	12" 22.5° Bend (Vert)	148+12.50			

See Sheet 98	STREET NAME 2		AS-BUILT		
REF	ITEM	STATION	NORTHING	EASTING	ELEVATION
1	3/4" WS (Short) (ADDRESS)	126+78.00			
2	12" 22.5° Bend (Vert)	126+78.32			
3	12" 22.5° Bend (Vert)	126+83.50			
4	12" 22.5° Bend (Vert)	126+88.50			
5	12" 22.5° Bend (Vert)	126+94.46			
6	3/4" WS (Short) (ADDRESS)	127+19.00			
See Sheet 56	STREET NAME 2				
1	Grade Break Use Joint Defl (Vert)	128+21.01			
2	3/4" WS (Long) (ADDRESS)	128+62.00			
3	12" Water Main Valve w/ Cols. Std HD Valve Box	128+68.00			
4	12" 11.25° Bend (Vert)	128+73.00			
5	12" 11.25° Bend (Vert)	128+78.53			
6	12" 11.25° Bend (Vert)	128+89.52			
7	12" 11.25° Bend (Vert)	128+94.80			
8	12" 11.25° Bend (Horiz)	129+04.88			
9	8" Water Main Valve w/ Cols. Std HD Valve Box	129+30.77			
10	12" 22.5° Bend (Vert)	129+75.00			
11	3/4" WS (Long) (ADDRESS)	129+80.00			
12	12" 22.5° Bend (Vert)	129+82.48			
13	12" 22.5° Bend (Vert)	129+87.48			
14	12" 22.5° Bend (Vert)	129+95.00			
See Sheet 100	STREET NAME 3				
1	3/4" WS (Short) (ADDRESS)	30+50.00			
2	2" WS (Long) (ADDRESS)	30+68.00			
3	8" Water Main Valve w/ Cols. Std HD Valve Box	30+90.00			
4	12" 45° Bend (Horiz)	31+00.00			
5	12" 45° Bend (Horiz)	31+13.18			
See Sheet 50	STREET NAME 4				
1	8" Water Main Valve w/ Cols. Std HD Valve Box	0+23.50			
2	8" 45° Bend (Horiz)	0+35.90			
3	8"x6" Reducer	0+38.73			
4	6" 45° Bend (Horiz)	0+40.90			

Horizontal Reference Datum = NAD 83 (NSRS 2007) (Ohio South Zone)

LEGEND

ARO	Air Release Outlet
WS	Water Service
HD	Heavy Duty
Horiz	Horizontal
Vert	Vertical
Defl	Deflection

* NOTE: PROVIDE COORDINATES AND ELEVATIONS OF WATER SERVICES AT THE CURB STOP.

CALCULATED ABC
CHECKED ABC

WATERLINE SURVEY COODINATE DATA

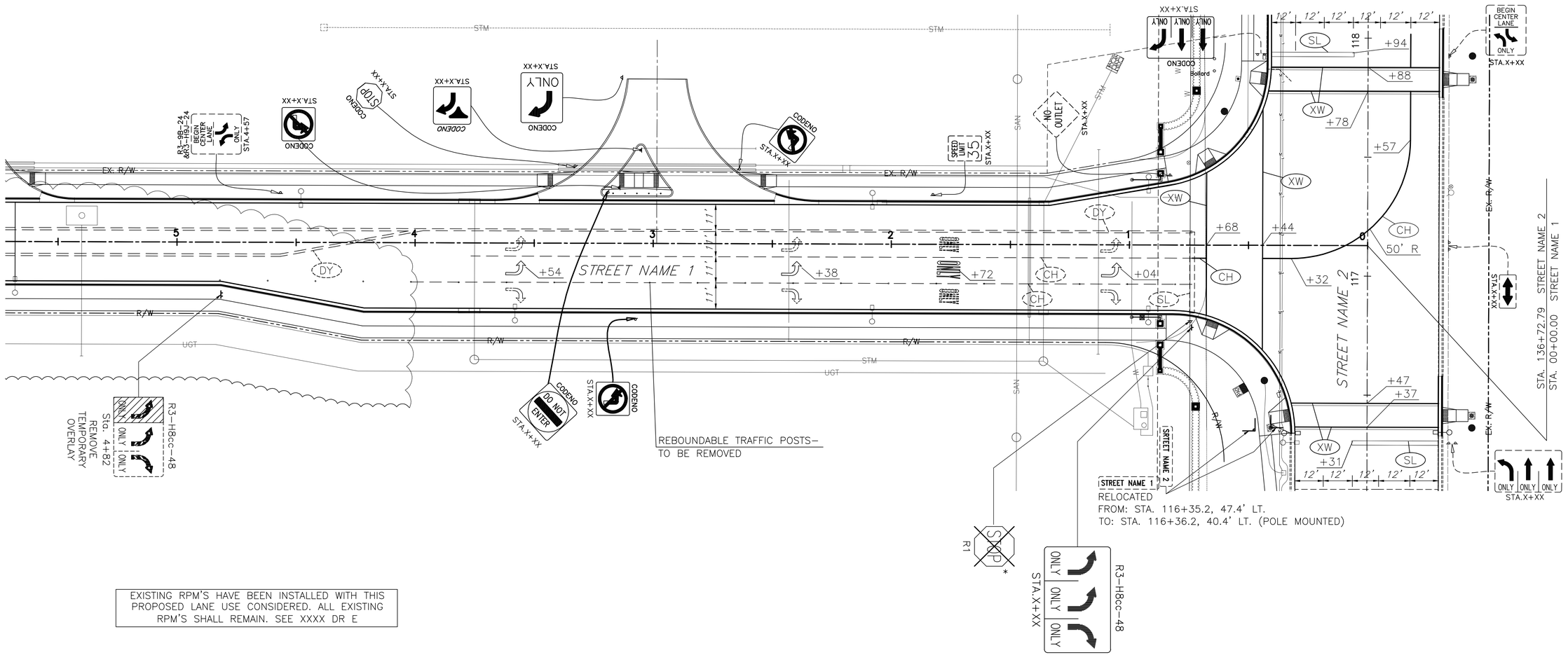
PROJECT NAME

XXXX-E

XX

REVISED 6/25/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\13_05 COORDINATE DATA (WATER).dwg (Coord Data)



*STOP SIGN SHALL REMAIN UNTIL NEW SIGNAL IS IN OPERATION.

EXISTING RPM'S HAVE BEEN INSTALLED WITH THIS PROPOSED LANE USE CONSIDERED. ALL EXISTING RPM'S SHALL REMAIN. SEE XXXX DR E

LEGEND

- (CH) PROPOSED PAVEMENT MARKINGS
- (DY) EXISTING PAVEMENT MARKINGS (TO REMAIN)
- PROPOSED SIGN
- EXISTING SIGN

LINE SPECIFICATIONS

WE	EDGE LINE, WHITE	SL	STOP LINE, 20" WHITE
YE	EDGE LINE, YELLOW	XW	CROSSWALK LINE, 10" WHITE
LL	LANE LINE, 5" YELLOW	WT	TRANSVERSE LINE, 20" WHITE
DY	CENTER LINE, 5" SOLID DOUBLE	YT	TRANSVERSE LINE, 20" YELLOW
		WCM	CURB MARKING, WHITE
		YCM	CURB MARKING, YELLOW
CSD	CENTER LINE, 5" SOLID & DASHED	WIM	ISLAND MARKING, WHITE
		YIM	ISLAND MARKING, YELLOW
		WD	DOTTED LINE, 4" WHITE
CD	CENTER LINE, 5" DASHED SINGLE	YD	DOTTED LINE, 4" YELLOW
CH	CHANNELIZING LINE, 10" WHITE	RM	REMOVAL OF PAVEMENT MARKINGS

SUB–SUMMARY OF TRAFFIC CONTROL ITEMS

ITEM NUMBER	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE SHEET
202	43	EA	RAISED PAVEMENT MARKER REMOVED	
621	52	EA	RPM	
630	112	LF	GROUND MOUNTED SUPPORT, NO 3 POST, AS PER PLAN	
630	32.5	SF	SIGN, FLAT SHEET, TYPE G, AS PER PLAN	5
630	5	EA	REMOVAL OF GROUND MOUNTED SUPPORT AND DISPOSAL	
630	3	EA	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
644	164	LF	CENTER LINE, 5", SOLID DOUBLE	
644	868	LF	CHANNELIZING LINE	
644	64	LF	STOP LINE	
644	380	LF	CROSSWALK LINE	
644	11	EA	LANE ARROW	
644	4	EA	WORD ON PAVEMENT	
644	133	LF	DOTTED LINE, 4"	
644	1171	LF	REMOVAL OF PAVEMENT MARKINGS	
644	3	EA	REMOVAL OF PAVEMENT MARKINGS	

XXXX–E

HORIZ. SCALE 20 0 10 20

CALCULATED | CHECKED

PAVEMENT MARKING AND SIGNING

PROJECT NAME

X / XX

REVISED 12/2/11

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Street A at Street C	Street A at Street B	ITEM NO.	ESTIMATED QUANTITY	UNIT	DESCRIPTION *
					TRAFFIC SIGNAL
223	20	625	243	LF	Conduit, Concrete Encased, 2", 725.051
133	159	625	292	LF	Conduit, Concrete Encased, 3", 725.051
248	419	625	667	LF	Conduit, 2", 725.051
230	290	625	520	LF	Trench, 30" Deep
134	74	625	208	LF	Trench, 36" Deep
2	1	625	3	Each	Pull Box, 725.08, 27"
2		625	2	Each	Pull Box, 725.08, 32"
	3	625	3	Each	Pull Box, 725.06, 13"x24"
10	11	625	21	Each	Ground Rod
341	273	625	614	LF	No. 4 AWG, 600 Volt Distribution Cable, As Per Plan
3		625	3	Each	Bracket Arm, 25'
1		625	1	Each	Bracket Arm, 30'
1	1	630	2	Lump	Signing, Misc.: Traffic Signal Signs
4	4	630	8	Each	Sign Support Assembly, Pole Mounted, As Per Plan
	1	632	1	Each	Conduit Riser, 2" Diameter, 725.05, SCH 80
6	6	632	12	Each	Vehicular Signal Head, (LED), 3-Section, 12" Lens, 1-Way
2	4	632	6	Each	Vehicular Signal Head, (LED), 5-Section, 12" Lens, 1-Way
8	8	632	16	Each	Pedestrian Signal Head, (LED), (Countdown)
4	4	632	8	Each	Pedestrian Pushbutton
8	10	632	18	Each	Covering Of Vehicular Signal Head
8	8	632	16	Each	Covering Of Pedestrian Signal Head
4	4	632	8	Each	Covering Of Pedestrian Pushbutton
4		632	4	Each	Signal Support Foundation
4	6	632	10	Each	Pedestal Foundation
1		632	1	Each	Signalization Misc.: Sleeve For Anchor Base Foundation
	1	632	1	Each	Pedestal Support, 5', Transformer Base
4	5	632	9	Each	Pedestal Support, 10.7', Transformer Base
	1	632	1	Each	Pedestrian Pedestal, Relocated
4		632	4	Each	Combination Signal Support, Type 4120, Design 4
	3	632	3	Each	Strain Pole, Type 4170, Design 8
	3	632	3	Each	Strain Pole Foundation
1	1	632	2	Each	Removal Of Traffic Signal Installation, As Per Plan
1268	948	632	2216	LF	Signal Cable, 7-Conductor, No. 14, Awg
207	804	632	1011	LF	Signal Cable, 9-Conductor, No. 14, Awg
	310	632	310	LF	Messenger Wire, 7 Strand, 3/8" Diameter with Acessories
537	2982	632	3519	LF	Loop Detector Lead-In Cable
	5	632	5	Each	Detector Loop
34	68	632	102	LF	Power Cable, 2-Conductor, No. 6 AWG
	123	632	123	LF	Service Cable, 2-Conductor, No. 6 AWG
1		632	1	Each	Signalization, Misc.: Video Detection System
1	1	633	2	Each	Cabinet Foundation
1	1	633	2	Each	Controller Unit With Cabinet 8 PH, P44, Base Mounted
	1	633	1	Each	Controller Work Pad

* – ITEM DESCRIPTIONS ARE SHOWN FOR EXAMPLE PURPOSES ONLY.
ACTUAL ITEM DESCRIPTIONS USED WILL VARY BY PROJECT

REVISED 4/11/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\14_10 SPAN WIRE SAMPLE PLAN.dwg (_o Quantity)

SCALE: None

CALCULATED XXX

CHECKED XXX

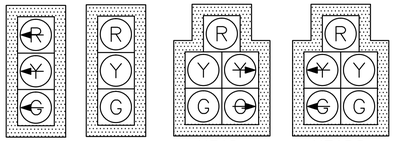
TRAFFIC SIGNAL INSTALLATION
GENERAL SUMMARY

PROJECT NAME

XX
XX

XXXX E

VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION

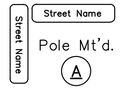


HEADS 3 & 4 | HEADS 2,5,8,10 | HEAD 6 | HEADS 1,7,9

PEDESTRIAN SIGNAL HEAD CONFIGURATION

(N) (S) (E) (W)

STREET NAME SIGN DETAIL



FOR INTERSECTION LAYOUT NOTES SEE SHEET ##.

W3-H10-30

Span Mt'd. (A)

R10-3A-9 (L)

R10-5-30

Span Mt'd. (B)

R10-3A-9 (R)

LEGEND

SIGNAL HEADS: PROP. VEHICULAR ■▶ ■▶ EX. VEHICULAR □▷ □▷
PROP. PEDESTRIAN ■🚶Ⓦ EX. PEDESTRIAN □🚶Ⓦ

SIGNAL POLES: PROP. ANCHOR/STRAIN POLE ■ EX. ANCHOR/STRAIN POLE □
EX. EMBEDDED POLE ⌀ EX. WOOD POLE ⌀ GUY ANCHOR ⤜
PROP. PEDESTAL ■ EX. PEDESTAL □ PUSHBUTTON →
EX. MASTARM ⊏ PROP. MASTARM ▬

CONTROLLERS & CABINETS: EX. CABINET W/PAD ⊠PAD PROP. CABINET W/PAD TC PAD
EX. CABINET (NO PAD) LC PROP. CABINET (NO PAD) LC

PULL BOXES: EX. PULL BOX □ ▭ ▣ TR (10) (S) (E) PROP. PULL BOX ■ ▬ C C C

DETECTION: FLOW MONITOR ▷□ MICROWAVE ≻M RADAR ≻R
VIDEO CAMERA ▷V VIDEO ZONE Z1
LOOP DETECTOR L1A

MISCELLANEOUS: REDLIGHT CAMERA ▷RL REDLIGHT FLASH ☼

EX. PULL BOX (TO REMAIN)
STA. 119+66.8, 72.7' LT.

(1)–2" CONDUIT W/(3)–2/C
IN TRENCH = 30'

EX. CONDUIT (REMOVE)

EX. GROUND MOUNTED CONTROLLER (REMOVE)
STA. 119+60.1, 51.3' LT.

POLE N/W–1 SIGNAL STRAIN POLE
W/(1)–PEDESTRIAN PUSHBUTTON
W/(1)–PEDESTRIAN SIGNAL HEAD
STA. 119+62.6, 42.7' LT.

EX. CONDUIT W/EX. SIGNAL WIRES (REMOVE)

EX. SIGNAL STRAIN POLE (TO REMOVE)
W/(1)–EX. POWER DISCONNECT SWITCH (REMOVE)
W/(2)–EX. PEDESTRIAN SIGNAL HEADS (REMOVE)
W/(1)–EX. PEDESTRIAN PUSHBUTTON (REMOVE)
STA. 119+59.9, 35.3' LT.

(1)–2" CONDUIT – EMPTY
(1)–2" CONDUIT W/(1)–7/C & (1)–GND
IN TRENCH = 29'

POLE N/W–2 PEDESTRIAN PEDESTAL, 10.7'
W/(1)–PEDESTRIAN SIGNAL HEAD
STA. 119+42.2, 24.9' LT.

EXISTING UTILITY POLE
STA. 119+00.3, 28.7' LT.

(1)–AERIAL SERVICE CABLE = 96'

POWER TAP–IN LOCATION
STA. 118+04.0, 28.7' LT.

(1)–AERIAL SERVICE CABLE = 76'

PULL BOX (13"x24")
STA. 119+09.5, 38.5' RT.

INTERCONNECT CONDUIT BANK
SEE SHEET ##

PULL BOX, 32"
STA. 118+80.3, 30.4' RT.

(1)–3" CONDUIT – EMPTY
(1)–3" CONDUIT W/INTERCONNECT CABLES
ENCASED IN TRENCH = 57'

(1)–AERIAL SERVICE CABLE = 21'

EX. CONDUIT W/EX. SIGNAL WIRES (REMOVE)

EX. CONDUIT W/ EX. SIGNAL WIRES (REMOVE)

EX. PULL BOX (TO REMAIN)
STA. 119+72.4, 92.9' RT.

EX. CONDUIT W/NEW (2)–2/C = 92'

EX. PULL BOX (TO REMAIN)
STA. 84+48.8, 30.6' LT.

POLE N/E–2 PEDESTRIAN PEDESTAL, 10.7'
W/(1)–PEDESTRIAN PUSHBUTTON
W/(1)–PEDESTRIAN SIGNAL HEAD
STA. 120+52.4, 54.8' LT.

EX. PULL BOX (TO REMAIN)
STA. 87+56.6, 33.4' LT.

EX. CONDUIT W/NEW (2)–2/C = 46'

(1)–2" CONDUIT W/(2)–7/C & (1)–GND
(1)–2" CONDUIT W/(1)–2/C
IN TRENCH = 11'

EX. SIGNAL STRAIN POLE (REMOVE)
W/(2)–EX. PEDESTRIAN SIGNAL HEADS (REMOVE)
W/(1)–EX. PEDESTRIAN PUSHBUTTON (REMOVE)
STA. 120+58.7, 52.7' LT.

PULL BOX
STA. 120+61.1, 48.0' LT.

(1)–2" CONDUIT W/(1)–9/C, (1)–7/C & (2)–GND
(1)–2" CONDUIT W/(3)–2/C
IN TRENCH = 9'

POLE N/E–1 SIGNAL STRAIN POLE
STA. 120+68.1, 53.3' LT.

(1)–2" CONDUIT W/(1)–9/C, (1)–7/C & (1)–GND
(1)–2" CONDUIT – EMPTY
IN TRENCH = 19'

EX. CONDUIT W/NEW (2)–2/C = 39'

EX. PULL BOX (TO REMAIN)
STA. 120+58.1, 24.1' LT.

POLE N/E–3 PEDESTRIAN PEDESTAL, 10.7'
W/(1)–PEDESTRIAN SIGNAL HEAD
STA. 120+70.5, 32.3' LT.

EX. PULL BOX (TO REMAIN)
STA. 120+86.6, 19.6' LT.

EX. CONDUIT W/EX. INTERCONNECT WIRES
(TO REMAIN)

FUTURE PEDESTRIAN PEDESTAL
STA. 120+67.7, 33.6' RT.

POLE S/E–1 EX. SIGNAL STRAIN POLE (INSTALLED BY CC####)
W/(2)–EX. PEDESTRIAN SIGNAL HEADS (REPLACE W/NEW)
W/(1)–EX. PEDESTRIAN PUSHBUTTON (REMOVE)
STA. 120+56.5, 57.8' RT.

EX. CONDUIT W/NEW (1)–2/C & (1)–GND = 7'

EX. PULL BOX (TO REMAIN)
STA. 120+50.3, 61.7' RT.

(1)–2" CONDUIT – EMPTY
(1)–2" CONDUIT W/(1)–2/C & (2)–GND
IN TRENCH = 6'

POLE S/E–2 PEDESTRIAN PEDESTAL, 5'
W/(1)–PEDESTRIAN PUSHBUTTON
STA. 120+47.1, 57.5' RT.

MAJOR STREET (N) STA. 86+33.18 ℄ =
MINOR STREET STA. 120+03.43 ℄
CITY OF COLUMBUS INT. NO. XXXX

INTERCONNECT CONDUIT BANK
SEE SHEET ##

EX. CONDUIT W/EX. INTERCONNECT WIRES
(TO REMAIN)

EX. PULL BOX (TO REMAIN)
STA. 120+40.2, 132.4' RT.

WOOD POLE W/NEW (1)–2" CONDUIT RISER
STA. 119+12.6, 65.1' RT.

(1)–2" CONDUIT W/(1)–NEW POWER
ENCASED IN TRENCH = 6'

GROUND MOUNTED CONTROLLER
STA. 119+18.3, 67.1' RT.

EX. UTILITY POLE (TO REMAIN)
STA. 119+16.7, 44.9' RT.

EX. PULL BOX (REMOVE)
STA. 119+19.9, 38.9' RT.

EX. CONDUIT (REMOVE)

(1)–2" CONDUIT W/(4)–2/C
IN TRENCH = 41'

POLE S/W–3 PEDESTRIAN PEDESTAL, 10.7'
W/(1) – PEDESTRIAN SIGNAL HEAD
STA. 119+34.2, 45.1' RT.

(1)–2" CONDUIT – EMPTY
(1)–2" CONDUIT W/(2)–9/C & (2)–GND
IN TRENCH = 17'

PULL BOX, 27"
STA. 119+33.2, 62.9' RT.

(1)–2" CONDUIT W/(2)–9/C, (3)–7/C & (1)–GND
(1)–2" CONDUIT W/(7)–2/C
IN TRENCH = 25'

(1)–2" CONDUIT W/(2)–9/C & (1)–GND
(1)–2" CONDUIT W/(1)–2/C
IN TRENCH = 30'

EX. SIGNAL STRAIN POLE (REMOVE)
STA. 119+57.5, 60.6' RT.

EX. PULL BOX (REMOVE)
STA. 119+61.1, 58.6' RT.

EX. CONDUIT W/EX. SIGNAL WIRES (REMOVE)

EX. CONDUIT W/EX. SIGNAL WIRES (REMOVE)

POLE S/W–2 PEDESTRIAN PEDESTAL, 10.7'
W/(1)–PEDESTRIAN PUSHBUTTON
W/(1)–PEDESTRIAN SIGNAL HEAD
STA. 119+62.9, 66.4' RT.

Ex, Pedestrian Pedestal (REMOVE)
Sta. 119+63.4, 67.6' Rt.

(1)–2" CONDUIT W/(3)–2/C
IN TRENCH = 54'

POLE S/W–1 SIGNAL STRAIN POLE
STA. 119+55.1, 72.1' RT.

(1)–3" CONDUIT – EMPTY
(1)–3" CONDUIT W/(15)–2/C
(1)–3" CONDUIT W/(2)–9/C, (3)–7/C & (3)–GND
ENCASED IN TRENCH = 15'

DETAIL 'A'
SCALE 1" = 10'

MINOR STREET
MAJOR STREET
Ex. R/W
SEE DETAIL 'A'
+14
+89
+67.8
38.0' LT.
+54.7
39.4' LT.
+30
+40
+68
58.3' RT.
+62
TC PAD
PB
ONLY

STRAIN POLE / SPAN WIRE EXAMPLE

SCALE 0 10 20 40 — 1 inch = 20 feet
CALCULATED XXX
CHECKED XXX

TRAFFIC SIGNAL INSTALLATION PLAN
STREET A AT STREET B

PROJECT NAME

XXXX E

REVISED 4/11/14

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FIELD WIRING HOOK-UP CHART

SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
1 (NBLT)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
	◄Y	ø1 Y	
	◄G	ø1 G	
2 (NB)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
3 (EBLT)	◄R	ø3 R	R
	◄Y	ø3 Y	
	◄G	ø3 G	
4 (EBLT)	◄R	ø3 R	R
	◄Y	ø3 Y	
	◄G	ø3 G	
5 (EB)	R	ø8 R	R
	Y	ø8 Y	
	G	ø8 G	
6 (EBRT)	R	ø8 R	R
	Y	ø8 Y	
	G	ø8 G	
	Y►	ø1 Y	
	G►	ø1 G	
7 (SBLT)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
	◄Y	ø5 Y	
	◄G	ø5 G	
8 (SB)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
9 (WBLT)	R	ø4 R	R
	Y	ø4 Y	
	G	ø4 G	
	◄Y	ø7 Y	
	◄G	ø7 G	
10 (WB)	R	ø4 R	R
	Y	ø4 Y	
	G	ø4 G	
N	WALK	G ø4-W	OFF
	DON'T WALK	R ø4-DW	
S	WALK	G ø8-W	OFF
	DON'T WALK	R ø8-DW	
E	WALK	G ø6-W	OFF
	DON'T WALK	R ø6-DW	
W	WALK	G ø2-W	OFF
	DON'T WALK	R ø2-DW	

TIMING CHART

PHASE	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8
MOVEMENT	NBLT	SB	EBLT	WB	SBLT	NB	WBLT	EB
MIN INITIAL	8	23	8	10	8	23	8	10
WALK	0	7	0	7	0	7	0	7
PED CLR	0	17	0	22	0	17	0	22
PASS / EXT	3.7	2.5	3.7	3.7	3.7	2.5	3.7	3.7
YELLOW	3.0	3.9	3.0	3.6	3.0	3.9	3.0	3.6
RED CLR	3.7	1.8	4.2	2.4	3.3	1.8	3.5	2.4
MAX GRN 1	30	50	25	50	30	50	25	50
MAX GRN 2	30	50	25	50	30	50	25	50
PED RECALL	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
VEH RECALL	OFF	MIN	OFF	OFF	OFF	MIN	OFF	OFF
MEMORY	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF

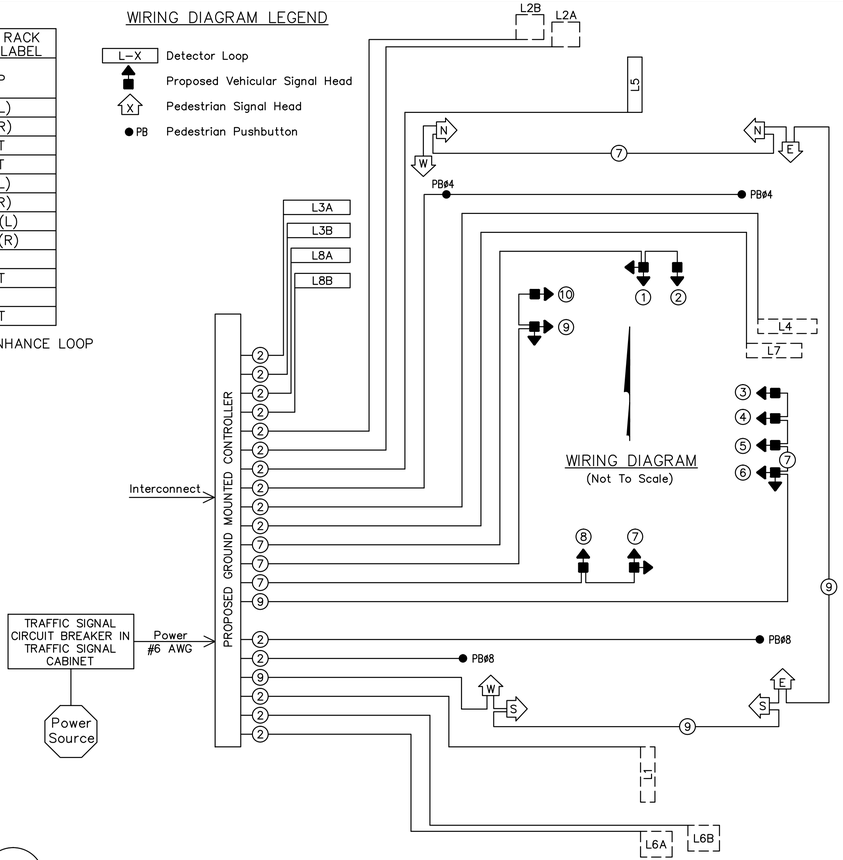
DETECTOR ASSIGNMENTS

DET (#)	DETECTOR ASSIGNMENT UNIT (#)	DETECTOR ASSIGNMENT CHANNEL (#)	PHASE	LOOP SIZE (W'xL')	LOOP DELAY DATA DELAY IN SECONDS	LOOP DELAY DATA INHIBIT DELAY DURING GRN ø	DET UNIT RACK & CABLE LABEL LOOP
L6A	1	1	ø6	Existing	–	–	NB (L)
L6B	1	2	ø6	Existing	–	–	NB (R)
L1	2	1	ø1	Existing	3	ø1	NBLT
L5	2	2	ø5	6'x25'	3	ø5	SBLT
L2A	3	1	ø2	Existing	–	–	SB (L)
L2B	3	2	ø2	Existing	–	–	SB (R)
L3A	4	1	ø3	5'x33'	3	ø3	EBLT (L)
L3B	4	2	ø3	5'x32'	–	ø3	EBLT (R)
L8A	5	1	ø8	5.5'x31'	–	ø8	EB
L8B	5	2	ø8	5'x30'	12	ø8	EBRT
L4	6	1	ø4	Existing	–	ø4	WB
L7	6	2	ø7	Existing	3	ø7	WBLT

LOOPS ARE TO BE HOOKED TO THE UNIT AND CHANNEL AS INDICATED TO ENHANCE LOOP PERFORMANCE AND DECREASE LOOP CROSSTALK.

WIRING DIAGRAM LEGEND

- L-X — Detector Loop
- Proposed Vehicular Signal Head
- X — Pedestrian Signal Head
- ● PB — Pedestrian Pushbutton



ITEM 632 REMOVAL OF TRAFFIC EXISTING SIGNAL INSTALLATION, AS PER PLAN

QUANTITY	REMOVED ITEM DESCRIPTION	DELIVERED TO 1820 E 17th AV	DISPOSED OF BY PROJECT
2	TRAFFIC PULL BOX	X	
4	PEDESTRIAN PUSHBUTTON	X	
1	SIGNAL WIRES (LUMP SUM)		X
4	FOUNDATIONS		X
1	SIGNAL CONDUIT (LUMP SUM)		X
1	CONTROLLER	X	
1	SPAN WIRE (LUMP SUM)		X
8	PEDESTRIAN SIGNAL HEAD	X	
8	SIGNAL HEADS	X	
1	POWER SERVICE		X
3	SIGNAL POLES	X	
1	PEDESTAL	X	

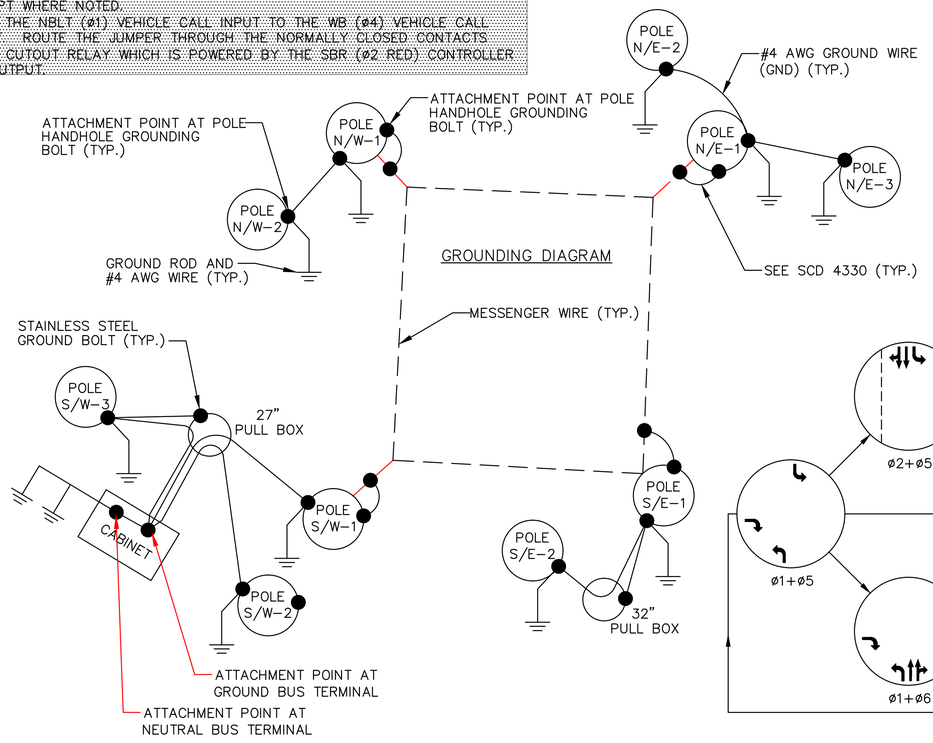
NOTES:

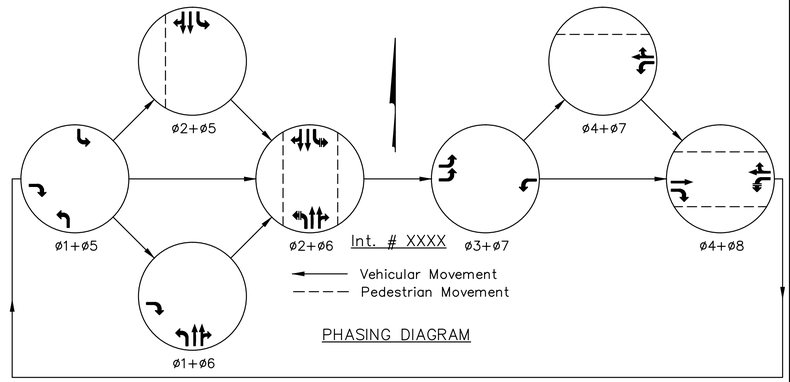
1. SET CONFLICT MONITOR FOR 10 SEC FLASH.
2. LOOP DETECTOR LEAD-IN CABLE SHALL BE USED FOR THE PEDESTRIAN PUSHBUTTONS. GROUND THE SHIELD ONLY AT THE CABINET.
3. SET ALL PRESENCE LOOP CHANNELS TO COUNT MODE. SET ALL 6'x6' LOOP CHANNELS TO PULSE MODE.
4. ALL LOOP SPADE TERMINALS SHALL HAVE THE LOOP HOMERUN WIRE SOLDERED TO THE SPADE TERMINAL. THE LOOP HOMERUN WIRES SHALL BE TWISTED TOGETHER AS CLOSE TO THE SPADE TERMINAL SCREWS AS POSSIBLE. THE [illegible] SHALL BE CONNECTED TO THE CLOSEST GROUNDING POI[illegible] ONNECTION.
5. BACK PANEL WIR[illegible]
   A) HARD WIRE [illegible] D. HOOK THE DETECTOR [illegible] AS INDICATED. GROUND.
   B) INSTALL A [illegible] PUT AND ø1 'OMIT' [illegible] TED DURING THE THRC[illegible]
   C) INSTALL A [illegible] PUT AND ø5 'OMIT' INP[illegible] DURING THE THROUGH [illegible]
   D) USE DIODES [illegible] ALS.
   E) INSTALL DIOI[illegible] WEEN ø4 & ø7 AND ø[illegible]
6. CONTROLLER SOF[illegible]
   A) INITIALIZE IN[illegible]
   B) ENABLE DUAL ENTRY. ACTIVATE ø4 & ø8.
   C) ENABLE SIMULTANEOUS GAP OUT. ACTIVATE ø2, ø4, ø6 & ø8.
7. INTERCONNECT FEEDER CABLE SHALL BE CONTINUOUSLY RUN BETWEEN THE CONTROLLER CABINET AND THE COAX DEVICE. NO SPLICES ARE PERMITTED EXCEPT WHERE NOTED.
8. JUMPER THE NBLT (ø1) VEHICLE CALL INPUT TO THE WB (ø4) VEHICLE CALL INPUT. ROUTE THE JUMPER THROUGH THE NORMALLY CLOSED CONTACTS OF A CUTOUT RELAY WHICH IS POWERED BY THE SBR (ø2 RED) CONTROLLER DC OUTPUT.

PLAN SHEET NOTES ARE ISSUED BY THE CITY OF COLUMBUS. ONLY USE NOTES APPLICABLE TO THE PROJECT.

INTERSECTION LAYOUT NOTES:

1. The Contractor shall ensure that all sidewalks/pathways meet ADA guidelines per City specifications.
2. Power, service and interconnect cable shall be continuous with no splices except as noted.
3. For signing and pavement markings, see sheet(s) XX-XX.
4. Center all loops in the center of their lane unless specified otherwise. Install loops after the asphalt surface course is laid.
5. The top of the pole base foundation shall be edged using a 1/2" sidewalk edger instead of being chamfered.
6. The Transportation Division Personnel shall approve bolt alignment, pole foundation location and elevation prior to the Co[illegible] the foundation.
7. Tagging of cable in the [illegible] ired except for tagging of certain cable as directed [illegible]
8. The pedestrian signal he[illegible] crosswalk area (not the curb ramp) that is opposite a[illegible] a slight downward angle to it.
9. Do not encase the groun[illegible] in concrete outside of their foundation. Full access[illegible] s. Permanently mark the top of concrete, if visible, wi[illegible] be known by others.
10. Any signal support base[illegible] a shall be flush with the top of the sidewalk.
11. The Contractor shall not[illegible] area is at finished grade.
12. Underground conduit and[illegible] adway areas shall be installed prior to the placement o[illegible] course.
13. The Contractor shall pro[illegible] ween the control cabinet and the designated power so[illegible] shall be run separately and shall not be bundled with[illegible]
14. See interconnect schema[illegible]
15. For continuation of conduit, see sheet(s) XX.
16. Use a separate conduit for each grouping of cables unless otherwise indicated: one conduit for 120VAC signal cable (5C, 7C, 9C); one conduit for power; one conduit for 2 conductor cable (loop & pushbutton); and one conduit for interconnect cable (twisted pair, fiber optics or coax). Any other low voltage cable not specified above can be placed in the 2 conductor cable conduit. Power cable must be in its own conduit.
17. Unless otherwise specified the following shall apply. A preformed PVC conduit elbow shall be used to change the PVC conduit direction beyond what its natural bending flex would yield. Rigid metal conduit can be bent to form an elbow or any other bending angle required only if a proper conduit bending machine is used. The elbow radius for any non-interconnect conduit shall be 24" or larger when used in a horizontal or vertical manner. Any type of elbow used for interconnect conduit shall have a radius of 36" or larger when used in a horizontal direction or in a vertical direction when the trench is 36" or deeper. If the trench is less than 36" then the vertical elbow radius shall be 24".
18. All clamps and banding material shall be painted to match the signal supports.





REVISED 4/11/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\14_10 SPAN WIRE SAMPLE PLAN.dwg (_c Span Detail)

SCALE: None

CALCULATED XXX CHECKED XXX

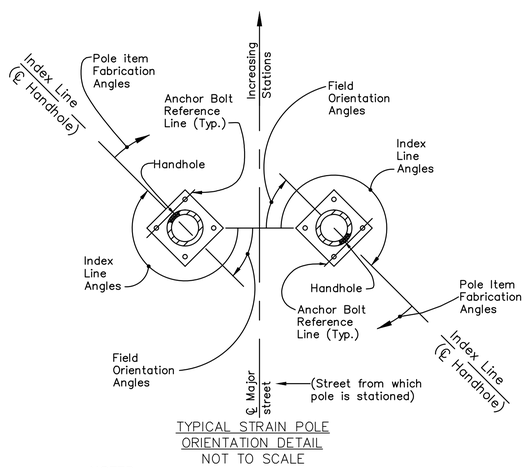
TRAFFIC SIGNAL DETAILS
STREET A AT STREET B

PROJECT NAME

XXXX E

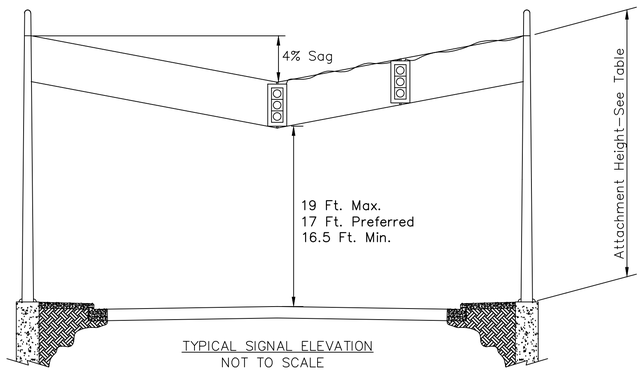
XX XX

INTERSECTION	SHEET NO.	POLE SIZES & SPAN ATTACHMENT HEIGHT					POLE FABRICATION DATA CLOCKWISE FROM HANDHOLE AT 0 DEGREES						FIELD ORIENTATION			
		POLE DESIGNATION	POLE COLOR	POLE DESIGN NO.	POLE HT. (FT.)	ATTACHMENT HT. (FT.) / SPAN @ HT. (FT.)	ANCHOR BOLT REF. LINE	2" BHC ANGLE–HT. DEG.–FT.	3" BHC ANGLE–HT. DEG.–FT.	PED. SIGNALS	PED. PUSH BUTTON	STREET NAME SIGN	INDEX LINE ANGLE (HANDHOLE)	ANCHOR BOLT REF. LINE	CAPPED FOUNDATION CONDUIT ELL 2" DIA.	FOUNDATION ELEVATION
		S/W–1	Dark Bronze	8	32'	28.5'	90°	–	29' – 180°	–	–	–	225°	135°	225°	726.09
		S/W–2	Dark Bronze	PEDESTAL	10.7'	–	90°	–	–	203°	180°	–	148°	58°	–	726.09
		S/W–3	Dark Bronze	PEDESTAL	10.7'	–	90°	–	–	262°	–	–	198°	108°	–	725.95
STREET A AT STREET B	XXX	N/W–2	Dark Bronze	PEDESTAL	10.7'	–	90°	–	–	99°	–	–	171°	81°	–	726.16
		N/W–1	Dark Bronze	8	30'	27'	90°	28' – 180°	–	223°	251°	135°/225°	134°	44°	134°	725.45
		N/E–2	Dark Bronze	PEDESTAL	10.7'	–	90°	–	–	105°	90°	–	242°	152°	–	728.11
		N/E–1	Dark Bronze	8	32'	28.5'	90°	29' – 180°	–	–	–	–	224°	134°	134°	729.12
		N/E–3	Dark Bronze	PEDESTAL	10.7'	–	90°	–	–	240°	–	–	217°	127°	–	728.66
		S/E–1	Dark Bronze	EXISTING	EX.	26'	EX.	EX.	–	130°/226°	–	135°/225°	135°	EX.	–	728.99
		S/E–2	Dark Bronze	PEDESTAL	5'	–	90°	–	–	–	180°	–	203°	113°	–	727.53



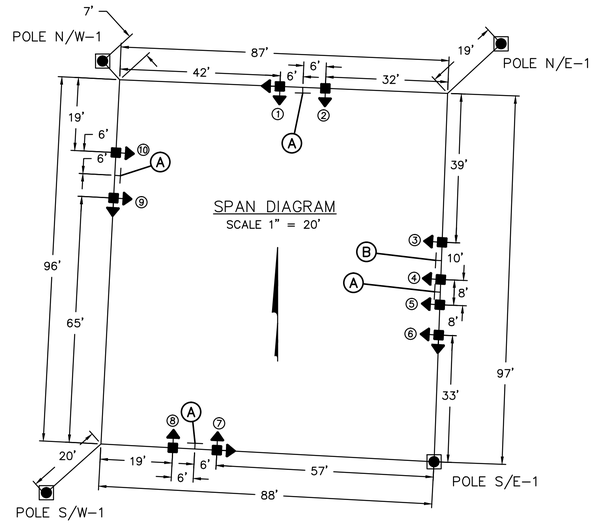
TYPICAL STRAIN POLE ORIENTATION DETAIL
NOT TO SCALE

NOTES:
All angles measured clockwise.
Index line goes through the center of the handhole.



TYPICAL SIGNAL ELEVATION
NOT TO SCALE

NOTES:
1. The lowest signal head height in each direction shall be set at 16.5 feet minimum (17' preferred). Adjust the span accordingly.



NOTES:

1. The lowest signal head height in each direction shall be set at 16.5 feet (17' Preferred). Adjust the span accordingly.
2. The dimensions shown on the span diagram are estimates. Final head positions shall be on the lane line, channel line or on the lane centerline. The distance between the heads are as indicated.

REVISED 4/11/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\14_10 SPAN WIRE SAMPLE PLAN.dwg (_d Span Pole Data)

SCALE: None
CALCULATED: XXX
CHECKED: XXX

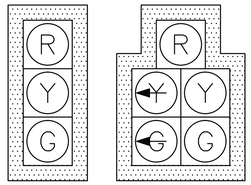
POLE FABRICATION AND ORIENTATION DETAILS

PROJECT NAME

XXXX E

MAST ARM EXAMPLE

VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



12" HEADS
2, 3, 4, 6, 7 & 8

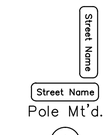
12" HEADS
1 & 5

PEDESTRIAN SIGNAL HEAD CONFIGURATION

R10-3A-9 (L)

R10-3A-9 (R)

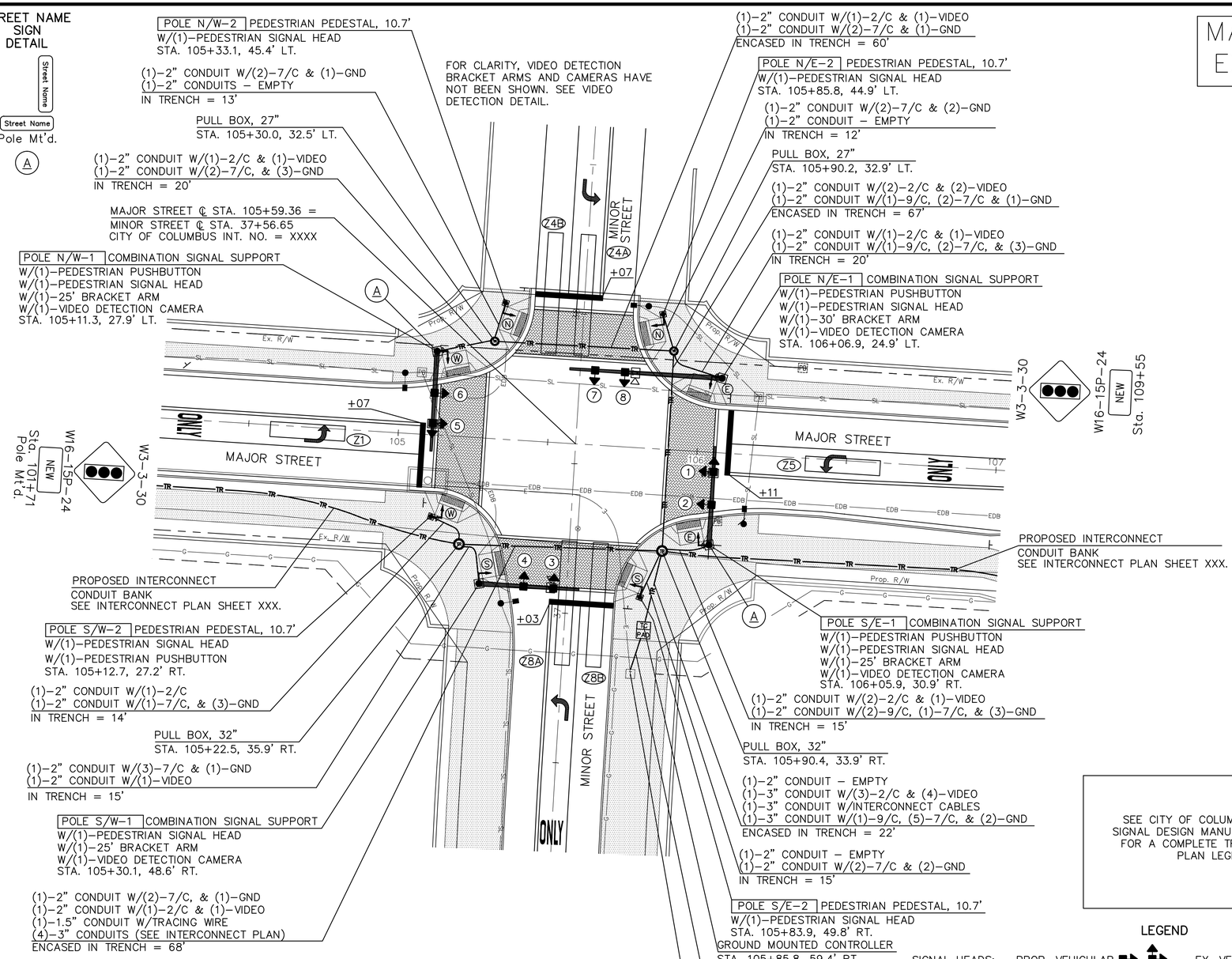
STREET NAME SIGN DETAIL



NOTES:

1. The Contractor shall ensure that all sidewalks/pathways meet ADA guidelines per City specifications.
2. Power, service and interconnect cable shall be continuous with no splices except as noted.
3. For signing and pavement markings, see sheet(s) XX & XX.
4. The top of the pole base foundation shall be edged using a 1/2" sidewalk edger instead of being chamfered.
5. The Transportation Division Personnel shall approve bolt alignment, pole foundation location and elevation prior to the Contractor installing the foundation.
6. Tagging of cable in the pullbox next to the control cabinet is not required except for tagging of certain cable as directed by the Project Engineer or as per plan.
7. The pedestrian signal head shall be aimed at the centerline of the crosswalk area (not the curb ramp) that is opposite of the pedestrian signal head. The pedestrian signal heads shall also have a slight downward angle to it.
8. Do not encase the ground rod, the grounding wire or the EMT conduit in concrete outside of their foundation. Full access to these items must be maintained at all times. Permanently mark the top of foundation concrete, if visible, with a marker or symbol so the rod location can be known by others.
9. Any signal support base foundation within or adjacent to a sidewalk area shall be flush with the top of the sidewalk.
10. The Contractor shall not install pole foundations until the pole location area is at finished grade.
11. Undergrou … posed sidewalk … to the placeme… roadway course.
12. The Contr… …een the control … furnished and inst… … shall be run sepa… other cable.
13. See interconnect schematic sheet(s) XXX for interconnect items.
14. For continuation of conduit, see sheet(s) XXX and XXX.
15. The control cabinet door shall be located on the south side of the cabinet.
16. The top surface of a cabinet foundation located in sidewalk areas shall be 4" above the surrounding walk. Expansion material shall be used between all foundations and adjacent sidewalk.
17. Use a separate conduit for each grouping of cables unless otherwise indicated: one conduit for 120VAC signal cable (5C, 7C, 9C, GND); one conduit for power; one conduit for 2 conductor cable (loop & pushbutton); and one conduit for interconnect cable (twisted pair, fiber optics or coax). Any other low voltage cable not specified above can be placed in the 2 conductor cable conduit. Power cable must be in its own conduit.
18. Unless otherwise specified the following shall apply. A preformed PVC conduit elbow shall be used to change the PVC conduit direction beyond what its natural bending flex would yield. Rigid metal conduit can be bent to form an elbow or any other bending angle required only if a proper conduit bending machine is used. The elbow radius for any non-interconnect conduit shall be 24" or larger when used in a horizontal or vertical manner. Any type of elbow used for interconnect conduit shall have a radius of 36" or larger when used in a horizontal direction or in a vertical direction when the trench is 36" or deeper. If the trench is less than 36" then the vertical elbow radius shall be 24".
19. All clamps and banding material shall be painted to match the signal supports.

PLAN SHEET NOTES ARE ISSUED BY THE CITY OF COLUMBUS. ONLY USE NOTES APPLICABLE TO THE PROJECT.



SEE CITY OF COLUMBUS, TRAFFIC SIGNAL DESIGN MANUAL, SECTION 2.1 FOR A COMPLETE TRAFFIC SIGNAL PLAN LEGEND.

LEGEND

SIGNAL HEADS: PROP. VEHICULAR ■▶ ▲ ■▶ EX. VEHICULAR □▷ △ □▷
PROP. PEDESTRIAN ┘Ⓦ EX. PEDESTRIAN ┘Ⓦ

SIGNAL POLES: PROP. ANCHOR/STRAIN POLE ◉ EX. ANCHOR/STRAIN POLE ◎
EX. EMBEDDED POLE ⌀ EX. WOOD POLE ⌀ GUY ANCHOR ⟩
PROP. PEDESTAL ■ EX. PEDESTAL ⧈ PUSHBUTTON →
EX. MASTARM ⧈ ═ ═ ═ ═ ═
PROP. MASTARM ●━━━━━

CONTROLLERS & CABINETS: EX. CABINET W/PAD ⊠ PAD PROP. CABINET W/PAD TC PAD
EX. CABINET (NO PAD) TC PROP. CABINET (NO PAD) LC

PULL BOXES: EX. PULL BOX □ ▭ ▣ TR Ⓣ Ⓒ Ⓢ
PROP. PULL BOX ■ ▬ ● ● ●

DETECTION: FLOW MONITOR ▷□ MICROWAVE ⟩M RADAR ⟩R
VIDEO CAMERA ▷V VIDEO ZONE Z1
LOOP DETECTOR L1A

MISCELLANEOUS: REDLIGHT CAMERA ▷RL REDLIGHT FLASH ✹

N

SCALE 0 10 20 40 — 1 inch = 20 feet

CALCULATED XXX CHECKED XXX

TRAFFIC SIGNAL INSTALLATION PLAN
STREET A AT STREET C

PROJECT NAME

XX XX

XXXX E

REVISED 4/11/14

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FIELD WIRING HOOK-UP CHART

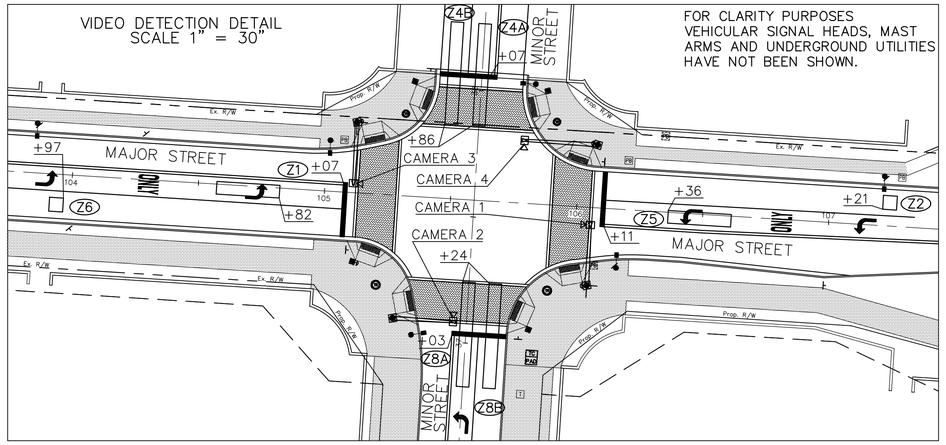
SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
1 (EBLT)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
	~~Y~~	ø1 Y	
	~~G~~	ø1 G	
2 (EB)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
3 & 4 (SB)	R	ø4 R	R
	Y	ø4 Y	
	G	ø4 G	
5 (WBLT)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
	~~Y~~	ø5 Y	
	~~G~~	ø5 G	
6 (WB)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
7 & 8 (NB)	R	ø8 R	R
	Y	ø8 Y	
	G	ø8 G	
N	WALK	G ø2-W	OFF
	DON'T WALK	R ø2-DW	
S	WALK	G ø6-W	OFF
	DON'T WALK	R ø6-DW	
E	WALK	G ø8-W	OFF
	DON'T WALK	R ø8-DW	
W	WALK	G ø4-W	OFF
	DON'T WALK	R ø4-DW	

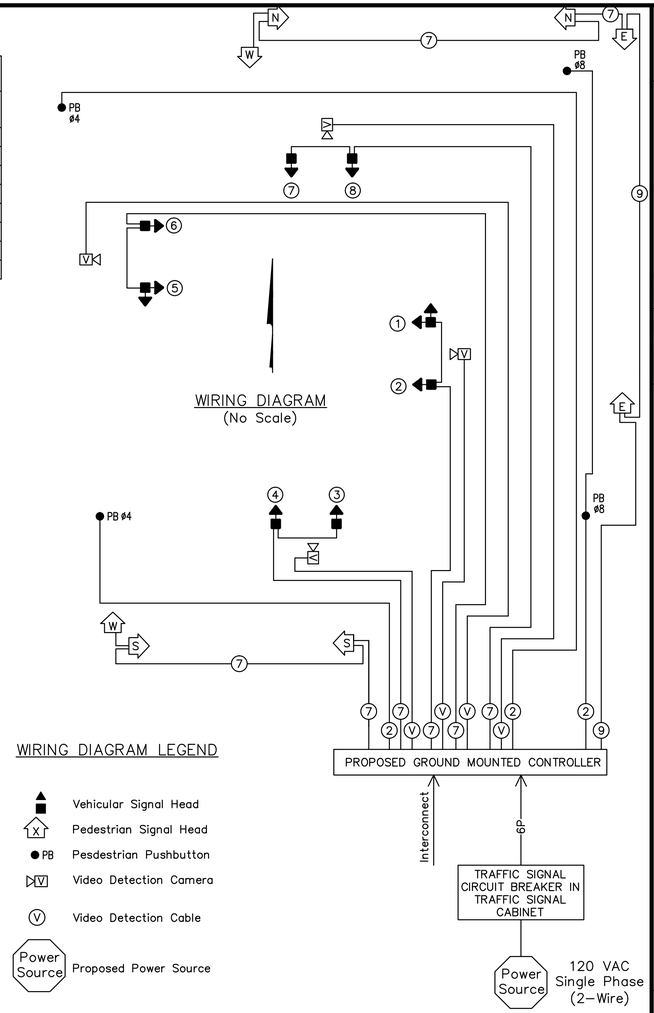
TIMING CHART

PHASE	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8
MOVEMENT	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB
MIN INITIAL	7	20	–	10	7	20	–	10
WALK	–	7	–	7	–	7	–	7
PED CLR	–	10	–	11	–	11	–	11
PASS / EXT	3.7	3.7	–	3.7	3.7	3.7	–	3.7
YELLOW	3.0	3.6	–	3.0	3.0	3.6	–	3.0
RED CLR	2.7	1.7	–	2.8	2.7	1.7	–	2.9
MAX GRN 1	15	40	–	20	15	40	–	20
MAX GRN 2	15	40	–	20	15	40	–	20
PED RECALL	OFF	ON	–	OFF	OFF	ON	–	OFF
VEH RECALL	OFF	ON	–	OFF	OFF	ON	–	OFF
MEMORY	OFF	ON	–	OFF	OFF	ON	–	OFF

VIDEO DETECTION ASSIGNMENTS

DETECTOR	CAMERA	PHASE	SIZE	PULSE	PRESENCE	LOOP DELAY DATA	
						DELAY (SEC.)	INHIBIT DELAY DURING GREEN ø
Z1	1	ø1	5'x25'		X	3	ø1
Z2	3	ø2	5.5'x5.5'	X		–	–
Z4A	2	ø4	5'x40'		X	3	ø4
Z4B	2	ø4	5.5'x40'		X	8	ø4
Z5	3	ø5	5'x25'		X	3	ø5
Z6	1	ø6	5.5'x5.5'	X		–	–
Z8A	4	ø8	5'x40'		X	3	ø8
Z8B	4	ø8	5.5'x40'		X	8	ø8



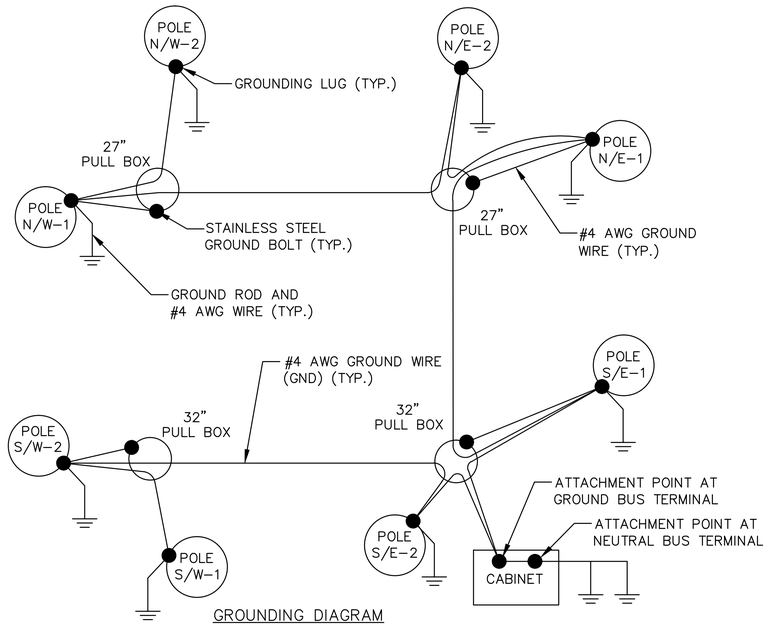


WIRING DIAGRAM LEGEND

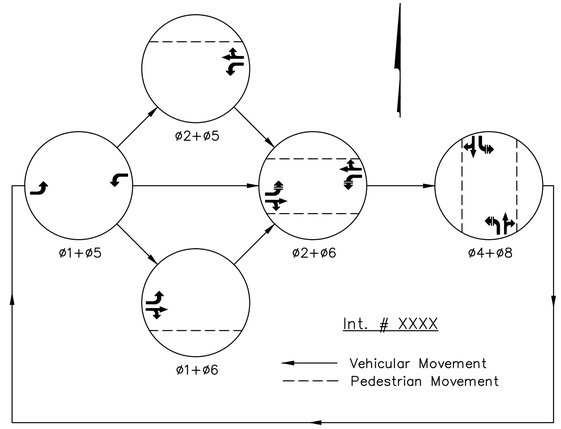
- Vehicular Signal Head
- Pedestrian Signal Head
- PB Pesdestrian Pushbutton
- Video Detection Camera
- V Video Detection Cable
- Power Source Proposed Power Source
- 6P 2/C #6 AWG

NOTES:
1. SET CONFLICT MONITOR FOR 10 SEC FLASH.
2. LOOP DETECTOR LEAD-IN CABLE SHALL BE USED FOR THE PEDESTRIAN PUSHBUTTONS. GROUND THE SHIELD ONLY AT THE CABINET.
3. BACK PANEL WIRING (FRONT SIDE JUMPERS ONLY)
   A) HARD WIRE 'PED RECYCLE' AND 'REST-IN-WALK' TO GROUND. HOOK THE [illegible] UTS AS INDICATED.
   B) INS[illegible] OUTPUT AND OMITTED DURING [illegible]
   C) INS[illegible] OUTPUT AND ø5 ITTED DURING THE [illegible]
   D) USE DIODES TO PREVENT FEEDBACK ON MULTI-USE TERMINALS.
4. CONTROLLER SOFTWARE PROGRAMMING
   A) INITIALIZE IN ø2 & ø6 GREEN
   B) ENABLE DUAL ENTRY. ACTIVATE ø4 & ø8.
   C) ENABLE SIMULTANEOUS GAP OUT. ACTIVATE ø2, ø4, ø6 & ø8.

PLAN SHEET NOTES ARE ISSUED BY THE CITY OF COLUMBUS. ONLY USE NOTES APPLICABLE TO THE PROJECT.



GROUNDING DIAGRAM



PHASING DIAGRAM

REVISED 4/11/14

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SCALE: None
CALCULATED: XXX
CHECKED: XXX

TRAFFIC SIGNAL DETAILS STREET A AT STREET C

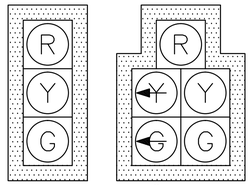
PROJECT NAME

XXXX E

XX XX

MAST ARM EXAMPLE

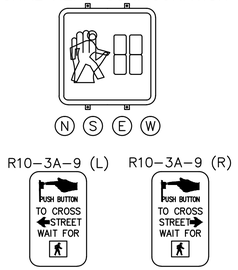
VEHICULAR TRAFFIC SIGNAL HEAD CONFIGURATION



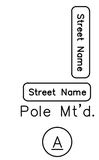
12" HEADS
2, 3, 4, 6, 7 & 8

12" HEADS
1 & 5

PEDESTRIAN SIGNAL HEAD CONFIGURATION



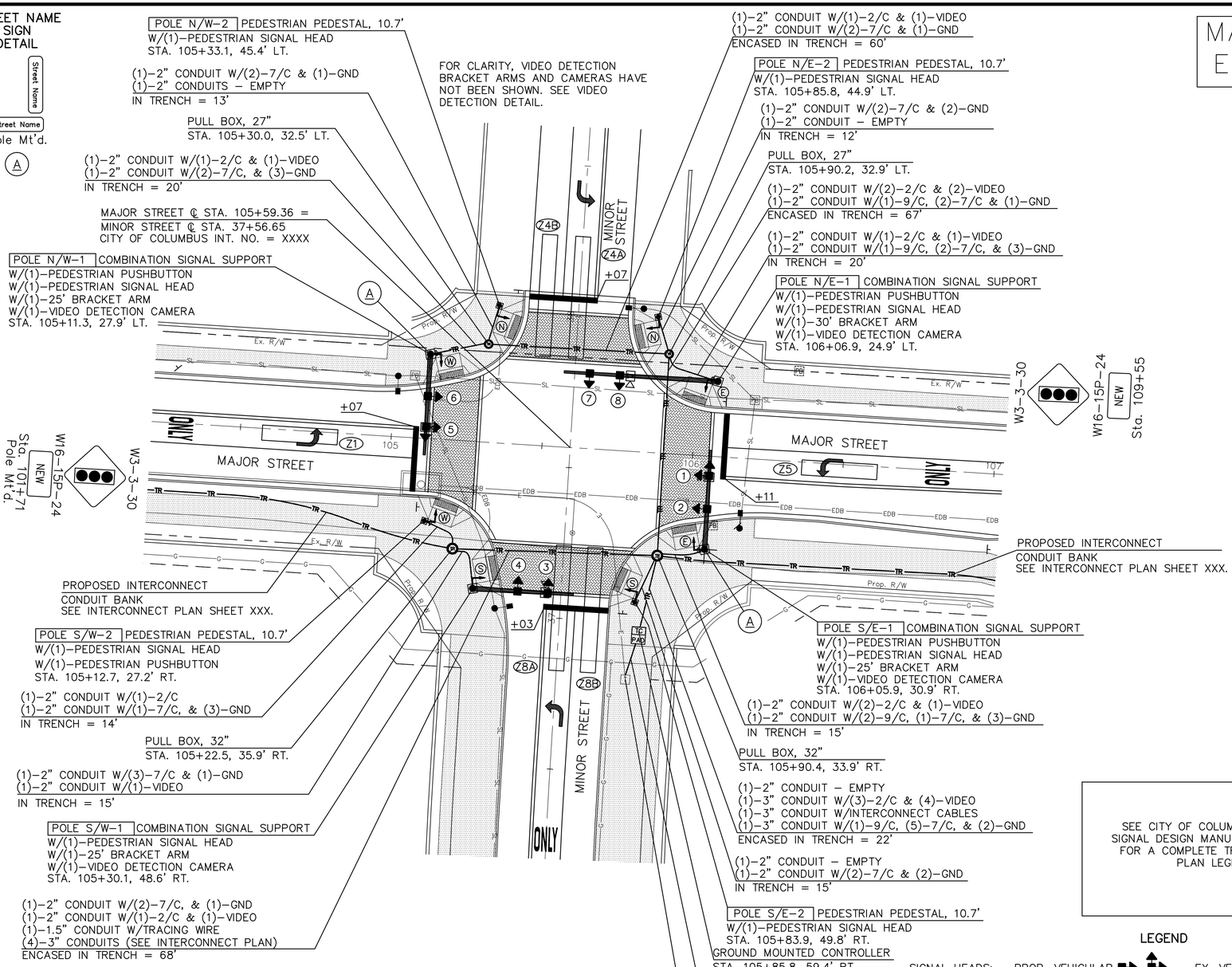
STREET NAME SIGN DETAIL



NOTES:

1. The Contractor shall ensure that all sidewalks/pathways meet ADA guidelines per City specifications.
2. Power, service and interconnect cable shall be continuous with no splices except as noted.
3. For signing and pavement markings, see sheet(s) XX & XX.
4. The top of the pole base foundation shall be edged using a 1/2" sidewalk edger instead of being chamfered.
5. The Transportation Division Personnel shall approve bolt alignment, pole foundation location and elevation prior to the Contractor installing the foundation.
6. Tagging of cable in the pullbox next to the control cabinet is not required except for tagging of certain cable as directed by the Project Engineer or as per plan.
7. The pedestrian signal head shall be aimed at the centerline of the crosswalk area (not the curb ramp) that is opposite of the pedestrian signal head. The pedestrian signal heads shall also have a slight downward angle to it.
8. Do not encase the ground rod, the grounding wire or the EMT conduit in concrete outside of their foundation. Full access to these items must be maintained at all times. Permanently mark the top of foundation concrete, if visible, with a marker or symbol so the rod location can be known by others.
9. Any signal support base foundation within or adjacent to a sidewalk area shall be flush with the top of the sidewalk.
10. The Contractor shall not install pole foundations until the pole location area is at finished grade.
11. Undergrou … posed sidewalk … to the placeme… roadway course.
12. The Contr… …een the control … furnished and inst… … shall be run sepa… other cable.
13. See interconnect schematic sheet(s) XXX for interconnect items.
14. For continuation of conduit, see sheet(s) XXX and XXX.
15. The control cabinet door shall be located on the south side of the cabinet.
16. The top surface of a cabinet foundation located in sidewalk areas shall be 4" above the surrounding walk. Expansion material shall be used between all foundations and adjacent sidewalk.
17. Use a separate conduit for each grouping of cables unless otherwise indicated: one conduit for 120VAC signal cable (5C, 7C, 9C, GND); one conduit for power; one conduit for 2 conductor cable (loop & pushbutton); and one conduit for interconnect cable (twisted pair, fiber optics or coax). Any other low voltage cable not specified above can be placed in the 2 conductor cable conduit. Power cable must be in its own conduit.
18. Unless otherwise specified the following shall apply. A preformed PVC conduit elbow shall be used to change the PVC conduit direction beyond what its natural bending flex would yield. Rigid metal conduit can be bent to form an elbow or any other bending angle required only if a proper conduit bending machine is used. The elbow radius for any non-interconnect conduit shall be 24" or larger when used in a horizontal or vertical manner. Any type of elbow used for interconnect conduit shall have a radius of 36" or larger when used in a horizontal direction or in a vertical direction when the trench is 36" or deeper. If the trench is less than 36" then the vertical elbow radius shall be 24".
19. All clamps and banding material shall be painted to match the signal supports.

PLAN SHEET NOTES ARE ISSUED BY THE CITY OF COLUMBUS. ONLY USE NOTES APPLICABLE TO THE PROJECT.



SEE CITY OF COLUMBUS, TRAFFIC SIGNAL DESIGN MANUAL, SECTION 2.1 FOR A COMPLETE TRAFFIC SIGNAL PLAN LEGEND.

LEGEND

SIGNAL HEADS: PROP. VEHICULAR · EX. VEHICULAR
PROP. PEDESTRIAN · EX. PEDESTRIAN

SIGNAL POLES: PROP. ANCHOR/STRAIN POLE · EX. ANCHOR/STRAIN POLE
EX. EMBEDDED POLE · EX. WOOD POLE · GUY ANCHOR
PROP. PEDESTAL · EX. PEDESTAL · PUSHBUTTON
EX. MASTARM
PROP. MASTARM

CONTROLLERS & CABINETS: EX. CABINET W/PAD · PROP. CABINET W/PAD
EX. CABINET (NO PAD) · PROP. CABINET (NO PAD)

PULL BOXES: EX. PULL BOX
PROP. PULL BOX

DETECTION: FLOW MONITOR · MICROWAVE · RADAR
VIDEO CAMERA · VIDEO ZONE
LOOP DETECTOR

MISCELLANEOUS: REDLIGHT CAMERA · REDLIGHT FLASH

SCALE: 0 10 20 40 — 1 inch = 20 feet

CALCULATED XXX · CHECKED XXX

TRAFFIC SIGNAL INSTALLATION PLAN
STREET A AT STREET C

PROJECT NAME

XXXX E

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FIELD WIRING HOOK-UP CHART

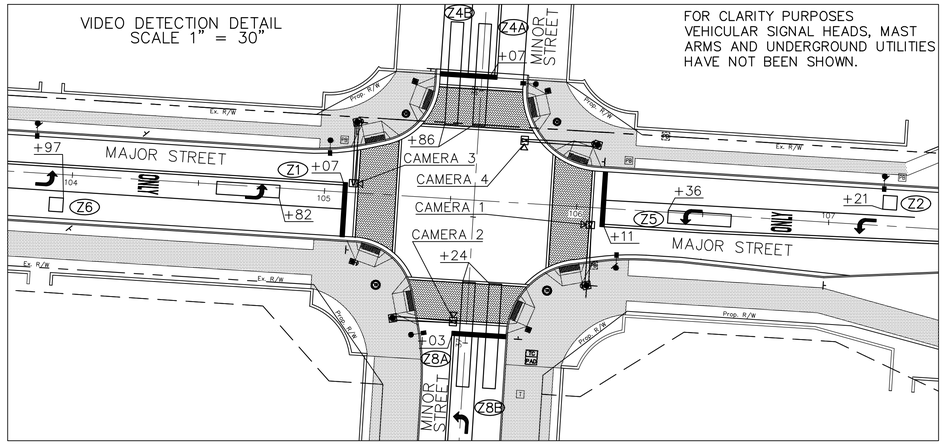
SIGNAL HEAD #	INDICATION	FIELD TERMINAL	FLASH
1 (EBLT)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
	◄Y	ø1 Y	
	◄G	ø1 G	
2 (EB)	R	ø6 R	Y
	Y	ø6 Y	
	G	ø6 G	
3 & 4 (SB)	R	ø4 R	R
	Y	ø4 Y	
	G	ø4 G	
5 (WBLT)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
	◄Y	ø5 Y	
	◄G	ø5 G	
6 (WB)	R	ø2 R	Y
	Y	ø2 Y	
	G	ø2 G	
7 & 8 (NB)	R	ø8 R	R
	Y	ø8 Y	
	G	ø8 G	
N	WALK	G ø2-W	OFF
	DON'T WALK	R ø2-DW	
S	WALK	G ø6-W	OFF
	DON'T WALK	R ø6-DW	
E	WALK	G ø8-W	OFF
	DON'T WALK	R ø8-DW	
W	WALK	G ø4-W	OFF
	DON'T WALK	R ø4-DW	

TIMING CHART

PHASE	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8
MOVEMENT	EBLT	WB	NBLT	SB	WBLT	EB	SBLT	NB
MIN INITIAL	7	20	–	10	7	20	–	10
WALK	–	7	–	7	–	7	–	7
PED CLR	–	10	–	11	–	11	–	11
PASS / EXT	3.7	3.7	–	3.7	3.7	3.7	–	3.7
YELLOW	3.0	3.6	–	3.0	3.0	3.6	–	3.0
RED CLR	2.7	1.7	–	2.8	2.7	1.7	–	2.9
MAX GRN 1	15	40	–	20	15	40	–	20
MAX GRN 2	15	40	–	20	15	40	–	20
PED RECALL	OFF	ON	–	OFF	OFF	ON	–	OFF
VEH RECALL	OFF	ON	–	OFF	OFF	ON	–	OFF
MEMORY	OFF	ON	–	OFF	OFF	ON	–	OFF

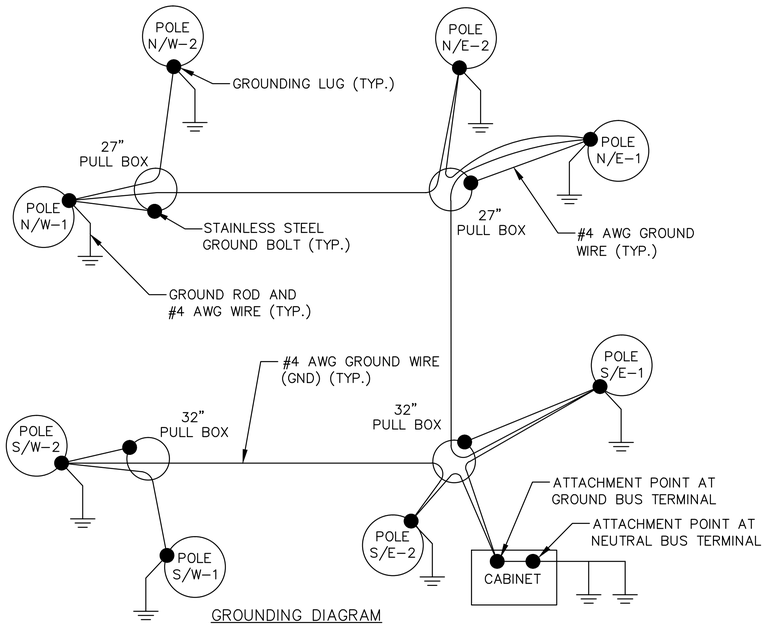
VIDEO DETECTION ASSIGNMENTS

DETECTOR	CAMERA	PHASE	SIZE	PULSE	PRESENCE	LOOP DELAY DATA	
						DELAY (SEC.)	INHIBIT DELAY DURING GREEN ø
Z1	1	ø1	5'x25'		X	3	ø1
Z2	3	ø2	5.5'x5.5'	X		–	–
Z4A	2	ø4	5'x40'		X	3	ø4
Z4B	2	ø4	5.5'x40'		X	8	ø4
Z5	3	ø5	5'x25'		X	3	ø5
Z6	1	ø6	5.5'x5.5'	X		–	–
Z8A	4	ø8	5'x40'		X	3	ø8
Z8B	4	ø8	5.5'x40'		X	8	ø8

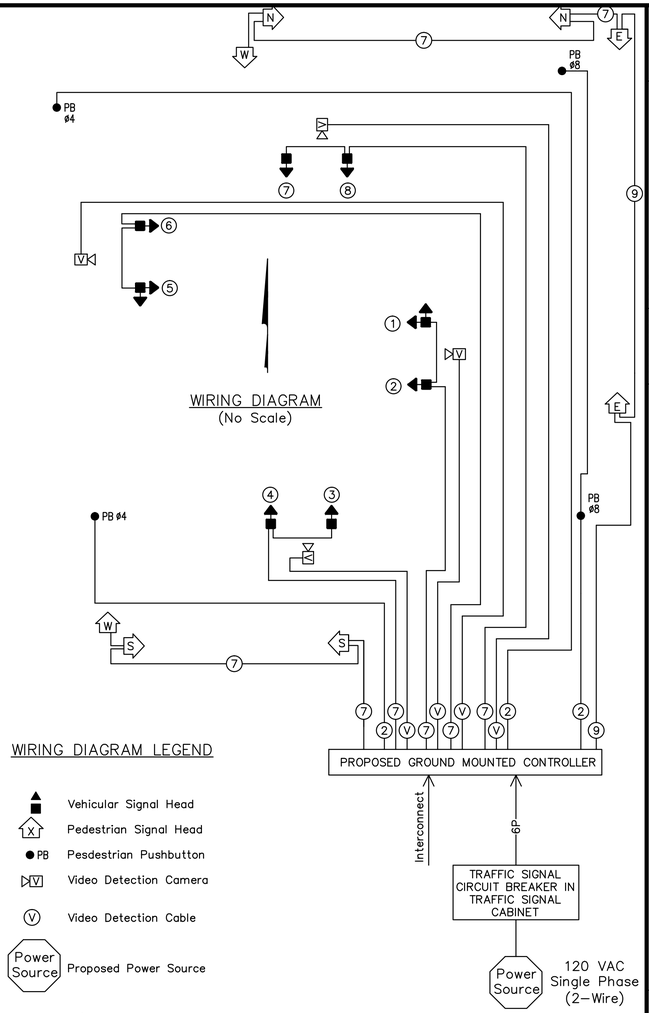


NOTES:
1. SET CONFLICT MONITOR FOR 10 SEC FLASH.
2. LOOP DETECTOR LEAD-IN CABLE SHALL BE USED FOR THE PEDESTRIAN PUSHBUTTONS. GROUND THE SHIELD ONLY AT THE CABINET.
3. BACK PANEL WIRING (FRONT SIDE JUMPERS ONLY)
   A) HARD WIRE 'PED RECYCLE' AND 'REST-IN-WALK' TO GROUND. HOOK THE [illegible] UTS AS INDICATED.
   B) INS[illegible] OUTPUT AND OMITTED DURING [illegible]
   C) INS[illegible] OUTPUT AND ø5 ITTED DURING THE [illegible]
   D) USE DIODES TO PREVENT FEEDBACK ON MULTI-USE TERMINALS.
4. CONTROLLER SOFTWARE PROGRAMMING
   A) INITIALIZE IN ø2 & ø6 GREEN
   B) ENABLE DUAL ENTRY. ACTIVATE ø4 & ø8.
   C) ENABLE SIMULTANEOUS GAP OUT. ACTIVATE ø2, ø4, ø6 & ø8.

PLAN SHEET NOTES ARE ISSUED BY THE CITY OF COLUMBUS. ONLY USE NOTES APPLICABLE TO THE PROJECT.



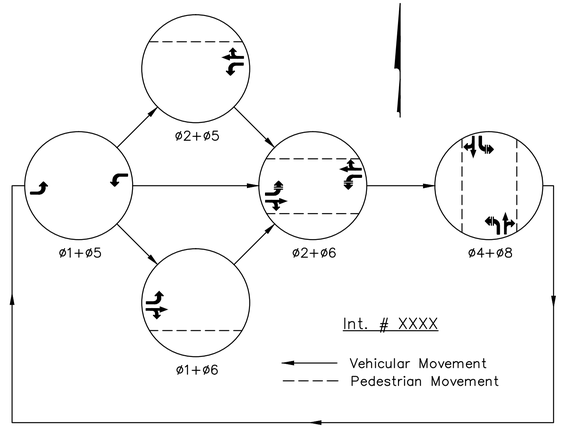
GROUNDING DIAGRAM



WIRING DIAGRAM
(No Scale)

WIRING DIAGRAM LEGEND

- Vehicular Signal Head
- Pedestrian Signal Head
- PB Pesdestrian Pushbutton
- Video Detection Camera
- Ⓥ Video Detection Cable
- Power Source Proposed Power Source
- —6P— 2/C #6 AWG



PHASING DIAGRAM

TRAFFIC SIGNAL DETAILS
STREET A AT STREET C

SCALE: None
CALCULATED: XXX
CHECKED: XXX

PROJECT NAME

XXXX E

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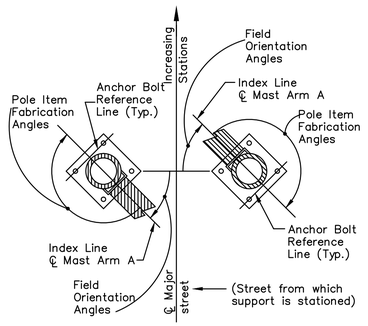
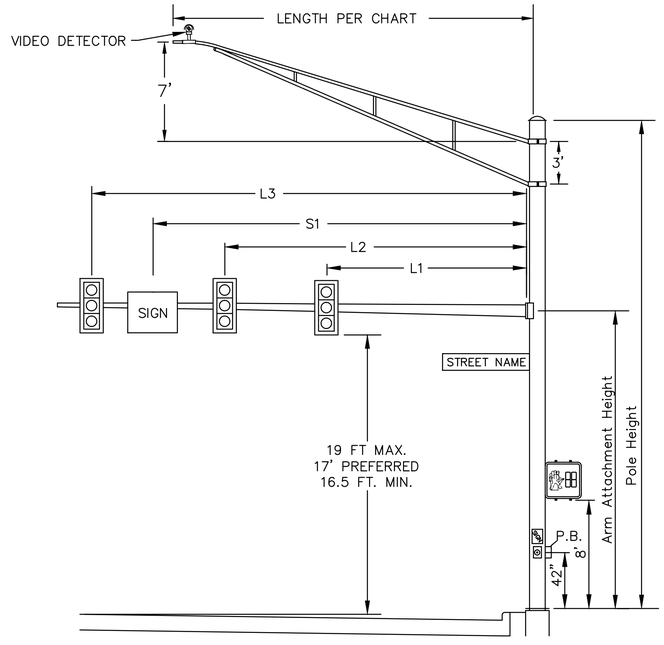
INTERSECTION	SHEET NO.	SUPPORT DESIGNATION	POLE COLOR	POLE DESIGN NO.	POLE HT. (FT.)	ARM LENGTH		OBJECT ATTACHMENT HEIGHT			DISTANCE FROM BUTT PLATE (FT.)			POLE FABRICATION DATA–CLOCKWISE FROM MAST ARM A AT 0 DEGREES						FIELD ORIENTATION		
						MASTARM (FT.)	VIDEO BRACKET ARM	MASTARM (FT.)	VIDEO BRACKET ARM	VIDEO DETECTOR MOUNTING HEIGHT	L1	L2	S1	VIDEO DETECTION CAMERA	ANCHOR BOLT REFERENCE LINE	PED. SIGNALS	PED. PUSH BUTTON	VIDEO BRACKET ARM	STREET NAME SIGNS	HANDHOLE	INDEX LINE ANGLE MAST ARM A	ANCHOR BOLT REF. LINE	FOUNDATION ELEVATION*
		S/E–1	Black	4	27'	32'	25'	21.5'	26'	33'	12.5'	23.5'	–	24'	90°	264°	255°	0°	0°/270°	180°	0°	90°	723.87
STREET A	##																						
AT		S/E–2	Black	Pedestal	10.7'	–	–	–	–	–	–	–	–	–	90°	344°	–	–	–	180°	18°	108°	723.61
STREET C																							
		S/W–1	Black	4	27'	32.5'	25'	21.5'	26'	33'	14'	24'	–	24'	90°	264°	–	0°	–	180°	90°	0°	723.62
		S/W–2	Black	Pedestal	10.7'	–	–	–	–	–	–	–	–	–	90°	347°	0°	–	–	180°	106°	16°	724.24
		N/W–1	Black	4	27'	32.5'	25'	21.5'	26'	33'	13'	24'	–	24'	90°	264°	257°	0°	0°/270°	180°	0°	90°	724.55
		N/W–2	Black	Pedestal	10.7'	–	–	–	–	–	–	–	–	–	90°	355°	–	–	–	180°	15°	105°	724.73
		N/E–1	Black	14	27'	50.5'	30'	21.5'	26'	33'	32'	42'	–	29'	90°	8°	5°	0°	–	180°	90°	0°	723.88
		N/E–2	Black	Pedestal	10.7'	–	–	–	–	–	–	–	–	–	90°	285°	–	–	–	180°	75°	165°	724.37



All angles measured clockwise.

Base plate is oriented square to Mast Arm A. Mast Arm A is the largest arm if the support has two mast arms.

TYPICAL SIGNAL SUPPORT ORIENTATION DETAIL



TYPICAL SIGNAL ELEVATION DETAIL

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None

SCALE

CALCULATED XXX

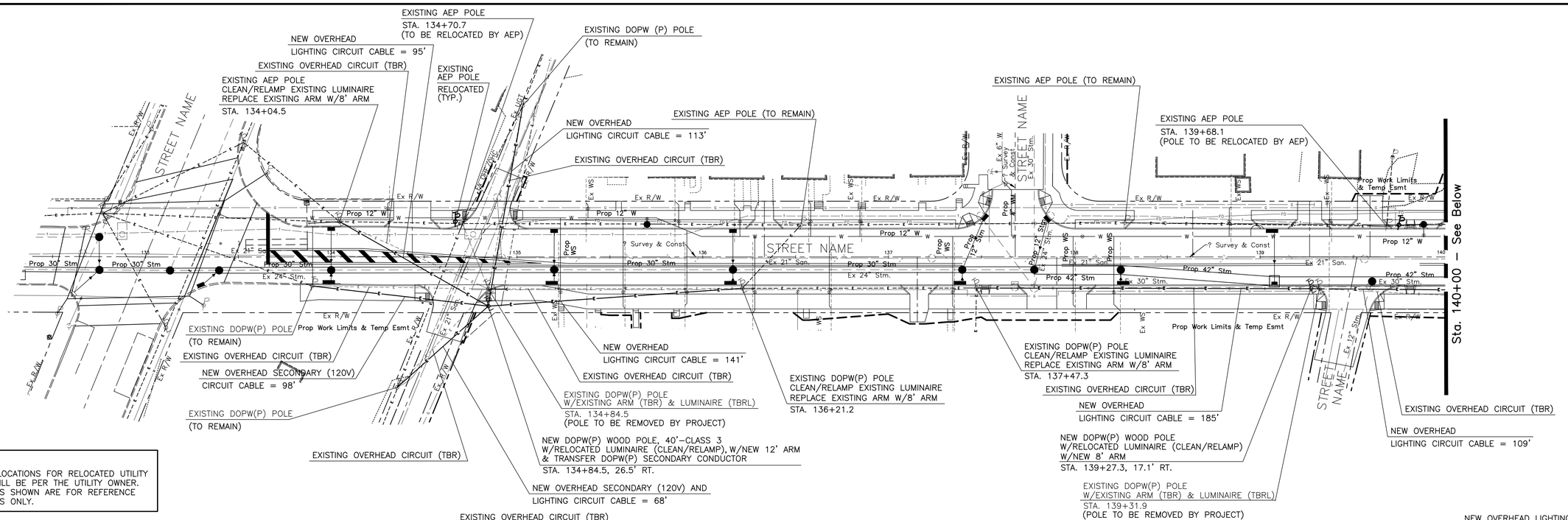
CHECKED XXX

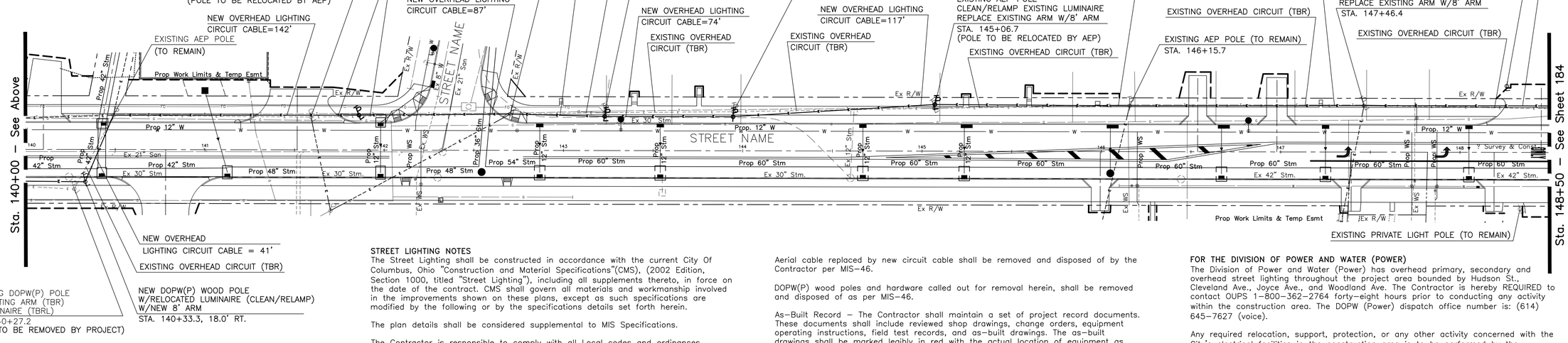
POLE FABRICATION AND ORIENTATION DETAILS

PROJECT NAME

XXXX E

XX XX





NOTE:
ACTUAL LOCATIONS FOR RELOCATED UTILITY POLES WILL BE PER THE UTILITY OWNER. LOCATIONS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

LEGEND

- Existing Overhead Circuit
- Proposed Overhead Circuit
- Other Overhead Electric or Communication
- Pole W/Telephone, Power and Lighting
- AEP – American Electric Power
- DOPW(P) – Division Of Power And Water (Power)
- TBR – To Be Removed
- TBRL – To Be Relocated

STREET LIGHTING NOTES

The Street Lighting shall be constructed in accordance with the current City Of Columbus, Ohio "Construction and Material Specifications"(CMS), (2002 Edition, Section 1000, titled "Street Lighting"), including all supplements thereto, in force on the date of the contract. CMS shall govern all materials and workmanship involved in the improvements shown on these plans, except as such specifications are modified by the following or by the specifications details set forth herein.

The plan details shall be considered supplemental to MIS Specifications.

The Contractor is responsible to comply with all Local codes and ordinances pertinent to the progression on the work described within the Project Plans. Any required permits shall be obtained and paid for by the Contractor. The Contractor and Sub–Contractor shall be responsible for complying with all Federal, State and Local safety requirements, together with exercising precautions at all times for the protection of persons (including employees) and property. It is also the sole responsibility of the Contractor and Sub–Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work.

Luminaires shall be relocated as shown in the drawings. All relocated luminaires shall be wired in accordance with MIS–10 and shall be cleaned and re–lamped in accordance with MIS–68. Bracket Arms (MIS–6 and MIS–10), overhead circuit cable (MIS–143), overhead circuit ground (MIS–26), down guy anchors (MIS–1) and wooden poles (MIS–42) as required shall be furnished at poles owned by the Division of Power and Water (Power).

Prior to the relocation process, the Contractor and the Engineer shall inspect the luminaires for the purpose of documenting any existing damage. Any dents or other damage identified after the luminaire has been relocated and not documented prior to the relocation operation will be presumed to have been caused by the Contractor. The Contractor shall be required to repair or replace the damaged luminaire at the option of the Design Engineer at the Contractor's expense.

Aerial cable replaced by new circuit cable shall be removed and disposed of by the Contractor per MIS–46.

DOPW(P) wood poles and hardware called out for removal herein, shall be removed and disposed of as per MIS–46.

As–Built Record – The Contractor shall maintain a set of project record documents. These documents shall include reviewed shop drawings, change orders, equipment operating instructions, field test records, and as–built drawings. The as–built drawings shall be marked legibly in red with the actual location of equipment as constructed.

All equipment installed shall have locations marked in distances off a landmark at least every 25 feet or location at a later date. Final documents and plans shall be handed over to the City of Columbus Division of Power and Water. The Division of Power and Water (Power) has overhead primary, secondary and overhead street lighting throughout the project area. The Contractor is hereby required to contact OUPS 1–800–362–2764 forty–eight hours prior to conducting any activity within the construction area. The DOPW (Power) dispatch office number is: (614) 645–7627 (voice).

All items of work called for on the plans, for which no specific method of payment is provided, shall be performed by the Contractor and the cost of these shall be included in the unit price bid for the various related items. This includes, but is not limited to, such incidental items as relocation of mail boxes, saw cutting, and removal and/or relocation of signs, railroad ties, sprinklers, relocating roof or sump drains around light pole foundations, hand digging around underground utilities or other miscellaneous items.

FOR THE DIVISION OF POWER AND WATER (POWER)

The Division of Power and Water (Power) has overhead primary, secondary and overhead street lighting throughout the project area bounded by Hudson St., Cleveland Ave., Joyce Ave., and Woodland Ave. The Contractor is hereby REQUIRED to contact OUPS 1–800–362–2764 forty–eight hours prior to conducting any activity within the construction area. The DOPW (Power) dispatch office number is: (614) 645–7627 (voice).

Any required relocation, support, protection, or any other activity concerned with the City's electrical facilities in the construction area is to be performed by the Contractor under the direction of Division of Power and Water (Power) (DOPW) personnel and at the expense of the project. DOPW shall make all final connections to DOPW's existing electrical system at the expense of the project. The Contractor shall use material and make repairs to the City of Columbus street lighting system by following the Division of Power and Water (Power)'s "Material and Installation Specifications" (MIS) and the City of Columbus "Construction and Material Specifications" (CMS). Any new or re–installed street light system shall require testing as referred to in section 1000.18 of the CMS manual. The Contractor shall conform to the Division of Power and Water (Power)'s existing Conductor Safety policy and Hold Card System (MIS–95), copies of which are available from the Division of Power and Water (Power).

If any electric facility belonging to the Division of Power and Water (Power) is damaged in any manner by the Contractor, its agents, servants, or employees, and requires emergency repairs, the Division of Power and Water (Power) shall make all necessary repairs, and the expense of such repairs and other related costs shall be paid by the Contractor to the Division of Power and Water (Power), City of Columbus, Ohio.

HORIZ. SCALE
30 0 15 30

CALCULATED | CHECKED

LIGHTING PLAN

PROJECT NAME

XXXX–E

REVISED 12/2/11

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NOTE:
ACTUAL LOCATIONS FOR RELOCATED UTILITY POLES WILL BE PER THE UTILITY OWNER. LOCATIONS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

SUB–SUMMARY OF LIGHTING ITEMS

ITEM NUMBER	MIS NUMBER	QUANTITY TOTAL	UNIT	ITEM DESCRIPTION	REF
1000	1	5	EA	Down Guy Anchor	
1000	6	1	EA	12' Aluminum Bracket (For Wood Pole)	
1000	10	15	EA	8' Aluminum Bracket (For Wood Pole)	
1000	26	3	EA	Overhead Circuit Ground Unit	
1000	42	3	EA	Pole, Wooden, 35' – V	
1000	46	1	LUMP	System Removal, Existing Overhead	
1000	68	16	EA	Clean and Re–Lamp HPS Luminaires	
1000	11	2507	LF	Overhead Circuit #2 AWG Aluminum (2 wire)	
Spec.	–	1	EA	Alley Arm (2–8' Crossarms)	
Spec.	–	1	LUMP	Transfer Secondary Conductor	
Spec.	–	1	LUMP	Transfer Primary Conductor, Install Alley Arm	
Spec.	–	2	EA	Bollard	
1000	–	1	EA	Pole, Wooden, 40' – 3	

TOTALS CARRIED TO GENERAL SUMMARY

EXISTING AEP POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 149+78.0
(POLE TO BE RELOCATED BY AEP)

RELOCATED AEP POLE (TYP.)

NEW OVERHEAD LIGHTING CIRCUIT CABLE=87'

EXISTING OVERHEAD CIRCUIT (TBR)

EXISTING AEP POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 148+64.6
(POLE TO BE RELOCATED BY AEP)

NEW OVERHEAD LIGHTING CIRCUIT CABLE=41'

EXISTING OVERHEAD CIRCUIT (TBR)

Sta. 148+50 – See Sheet 183

STREET NAME

Prop Work Limits & Temp Esmt

Ex R/W

Prop R/W

Prop 12" W

Prop 60" Stm

Ex 42" Stm.

Prop WS

Prop 12" Stm

Ex WS

Ex 8" Stm.

Survey & Const

Ex 8" San.

Prop 12" W

EXISTING AEP GUY POLE (TBR BY AEP)

EXISTING OVERHEAD CIRCUITS (TBR)
SEE TRAFFIC SIGNAL AND INTERCONNECT PLANS

Sta. 128+00 – See Below

Prop 12" W

Prop 66" Stm

Prop Aerial Utility Esmt

NEW OVERHEAD LIGHTING
CIRCUIT CABLE=151'

EXISTING OVERHEAD CIRCUIT (TBR)

EXISTING AEP GUY POLE (TBR BY AEP)

NEW OVERHEAD LIGHTING
CIRCUIT CABLE=103'

EXISTING AEP POLE W/EXISTING LUMINAIRE
STA. 151+13.5
(TO REMAIN)

RELOCATED AEP POLE
(SEE SIGNAL PLAN)
INSTALL 2–8' CROSSARMS
W/BRACES (ALLEY ARM CONFIG.)
& PIN INSULATORS (3). TRANSFER
EXISTING DOPW(P) CONDUCTOR.

EXISTING POLE
STA. 151+40.9
(TO REMAIN)

EXISTING AEP POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 150+26.3
(POLE TO BE RELOCATED BY AEP)

EXISTING OVERHEAD CIRCUIT (TBR)

NEW OVERHEAD LIGHTING
CIRCUIT CABLE=71'

EXISTING LIGHT POLES
(TO BE REMOVED–SEE PLAN & PROFILE)

EXISTING AEP POLE W/EXISTING LUMINAIRE
STA. 152+39.5
(TO REMAIN)

EXISTING LIGHT POLE
(TO BE REMOVED
SEE PLAN & PROFILE)

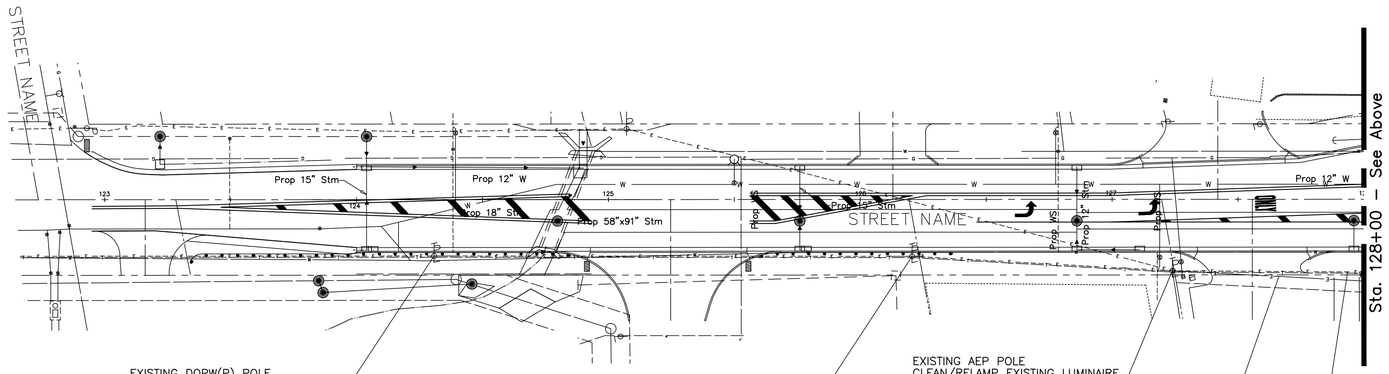
EXISTING AEP POLE W/EXISTING LUMINAIRE
STA. 153+60.1
(TO REMAIN)

EXISTING AEP POLE
STA. 154+77.2
(TO REMAIN)

EXISTING LIGHT POLE
(TO BE REMOVED–SEE PLAN & PROFILE)

EXISTING AEP POLE
STA. 153+79.3
(TO REMAIN)

EXISTING LIGHT POLE
(TO BE REMOVED–SEE PLAN & PROFILE)



EXISTING DOPW(P) POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 124+30.8

EXISTING DOPW(P) POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 126+20.6

EXISTING AEP POLE
CLEAN/RELAMP EXISTING LUMINAIRE
REPLACE EXISTING ARM W/8' ARM
STA. 127+23.9

NEW OVERHEAD LIGHTING
CIRCUIT CABLE=80'

EXISTING OVERHEAD CIRCUIT (TBR)

LEGEND

- Existing Overhead Circuit
- Proposed Overhead Circuit
- Other Overhead Electric or Communication
- Pole W/Telephone, Power and Lighting
- AEP – American Electric Power
- DOPW(P) – Division Of Power And Water (Power)
- TBR – To Be Removed
- TBRL – To Be Relocated

SCALE 30 0 15 30

CALCULATED | CHECKED

LIGHTING PLAN

PROJECT NAME

XXXX–E

X / XX

REVISED 12/2/11

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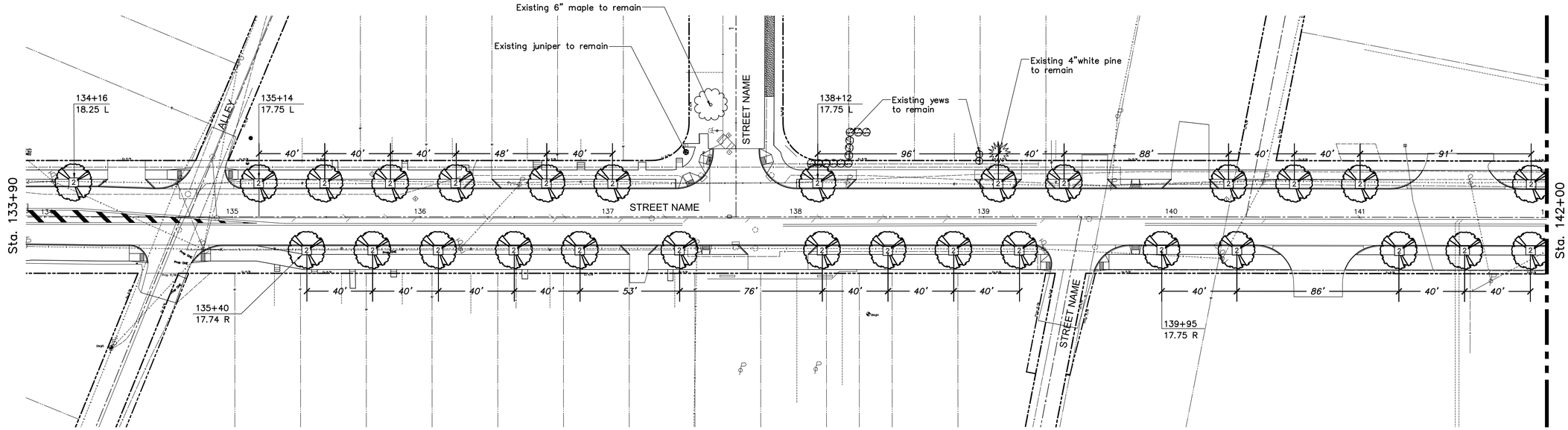
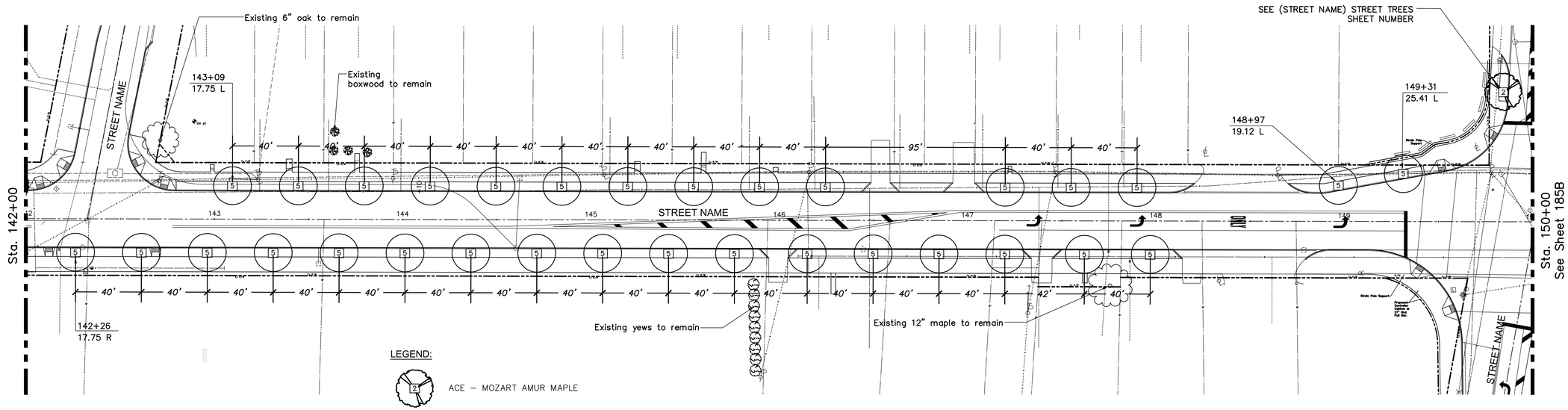




LEGEND:

- ACE – MOZART AMUR MAPLE
- MAA – STARBURST AMUR MAACKIA
- SYR – IVORY SILK TREE LILAC
- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING SHRUBS TO REMAIN

HORIZ. SCALE
30 0 15 30

CALCULATED | CHECKED

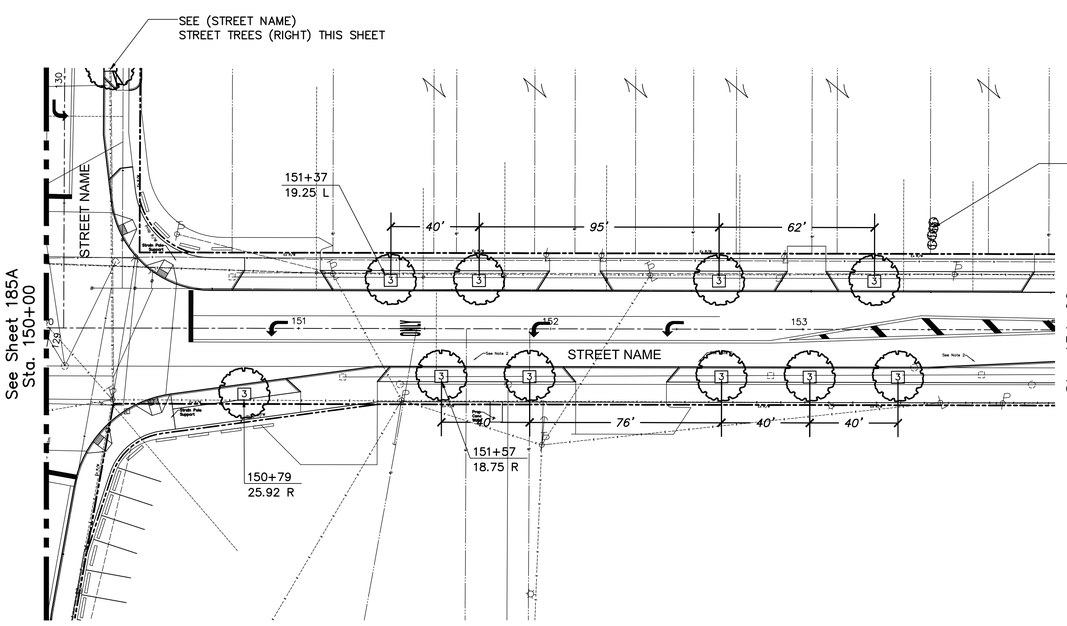
LANDSCAPE PLAN
STA. 133+90 TO STA. 150+00

PROJECT NAME

XXXX–E

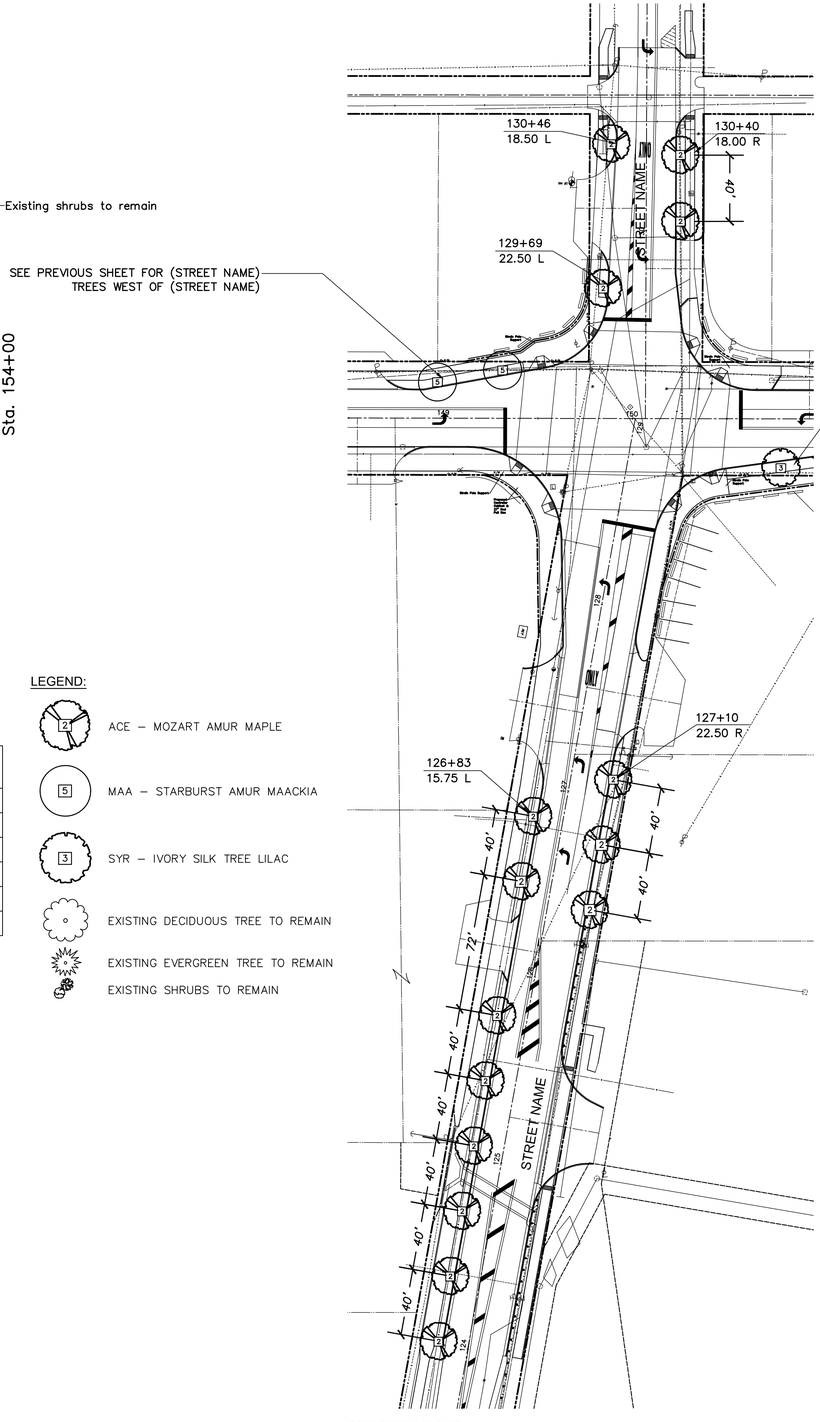
REVISED 6/27/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\17_01 LANDSCAPING.dwg (Landscaping-1)



STREET NAME

SCALE: 1" = 30'



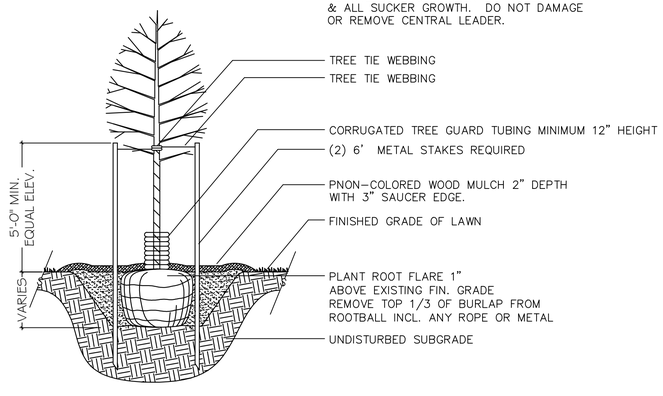
STREET NAME

SCALE: 1" = 40'

ITEM NO.	ESTIMATE QUANTITIES	KEY	UNIT	DESCRIPTION		
				PLANTING	SIZE	COMMENTS
661	44	ACE	EACH	ACER ginnala 'MOZART' MOZART AMUR MAPLE	2" CAL.	B&B
661	32	MAA	EACH	MAACKIA amurensis 'STARBURST' STARBURST AMUR MAACKIA	2" CAL.	B&B
661	10	SYR	EACH	SYRINGA retic ulata 'IVORY SILK' IVORY SILK TREE LILAC	2" CAL.	B&B, TREE FORM
				MISC.		
662	2150		GAL.	LANDSCAPE WATERING (25 GAL./TREE)		

LEGEND:

- ACE – MOZART AMUR MAPLE
- MAA – STARBURST AMUR MAACKIA
- SYR – IVORY SILK TREE LILAC
- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING EVERGREEN TREE TO REMAIN
- EXISTING SHRUBS TO REMAIN



STREET TREE PLANTING

N.T.S.

HORIZ. SCALE

30 0 15 30

CALCULATED | CHECKED

LANDSCAPE PLAN STA. 150+00 TO STA. 154+00
LANDSCAPE PLAN STA. 124+00 TO STA. 130+50

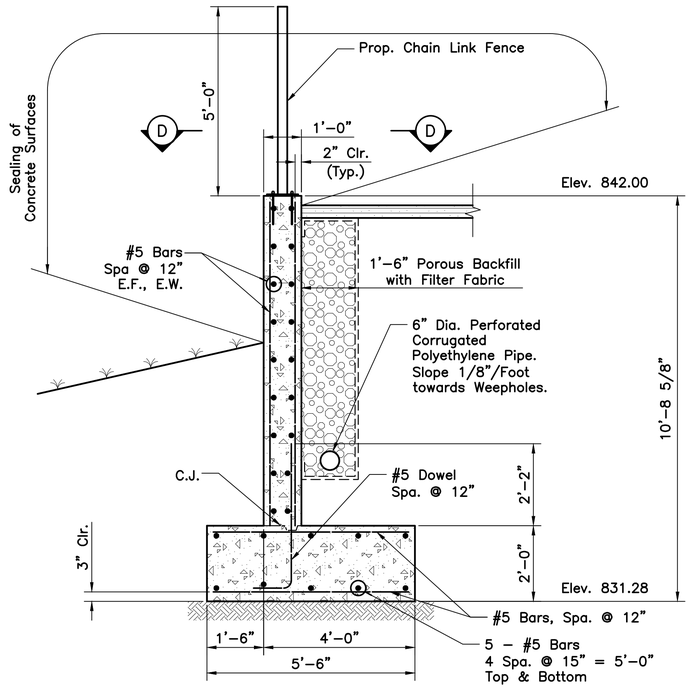
PROJECT NAME

XXXX–E

X
XX

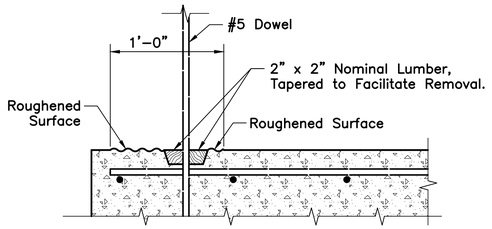
REVISION 6/27/14

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\17_01 LANDSCAPING.dwg (Landscaping-2)



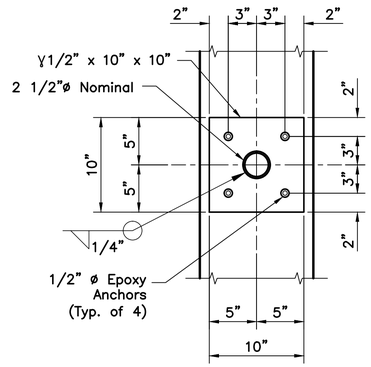
SECTION A–A

(1/2" = 1'-0")



SUGGESTED DETAIL TO FORM 1 1/2" DEEP KEY FOR CONCRETE WALL

(1 1/2" = 1'-0")



SECTION D–D

(1 1/2" = 1'-0")

RETAINING WALLS				503	601	SPECIAL
REF. NO.	STATION FROM	STATION TO	SIDE	UNCLASSIFIED EXCAVATION	ROCK CHANNEL PROTECTION TYPE B WITH FILTER	RETAINING WALL
				LUMP SUM	C.Y.	LUMP SUM
R1	124+00	124+90	RT	1	60	1
R2	124+72	125+15	LT	1	–	1
SHEET TOTALS				2	60	2

GENERAL NOTES

All labor, material, and equipment necessary to construct the retaining wall as detailed on these plans, including excavation, backfill, concrete, reinforcement, joints, drainage, fence and incidentals shall be included in the lump sum price bid for Retaining Walls.

All existing drainage courses shall be maintained during construction and placement of the proposed structure. The contractor shall submit to the City of Columbus a Schedule of Sequence and Method of maintaining the watercourse. Special attention shall be observed to insure that all erosion control features are installed and maintained throughout the duration of the project. Adequate precautions shall be taken to prevent concrete from freezing.

The contractor shall supply 6 sets of reinforcing steel shop drawings to XXX for a plan conformance review. Five sets of the reviewed drawings will be returned to the contractor for distribution.

The foundation, as designed, will produce a bearing pressure of 1.25 ton per square foot (2500 psf). Bottom of footings shall be cast against undisturbed earth.

If unsuitable bearing material occurs at the bottom of the footing elevation, the footing shown shall be deepened or widened to accommodate the changed condition. A registered soil engineer employed by the City of Columbus shall verify the suitability of the bearing material prior to placement of any concrete for the footing. The engineer must approve any changes in the footing.

Construction joints shall be provided as shown on the plans. Additional joints requested by the contractor shall be submitted for review and approval by the engineer. All vertical wall joints shall contain waterstop. Waterstop for vertical construction joints shall be approved prior to installation.

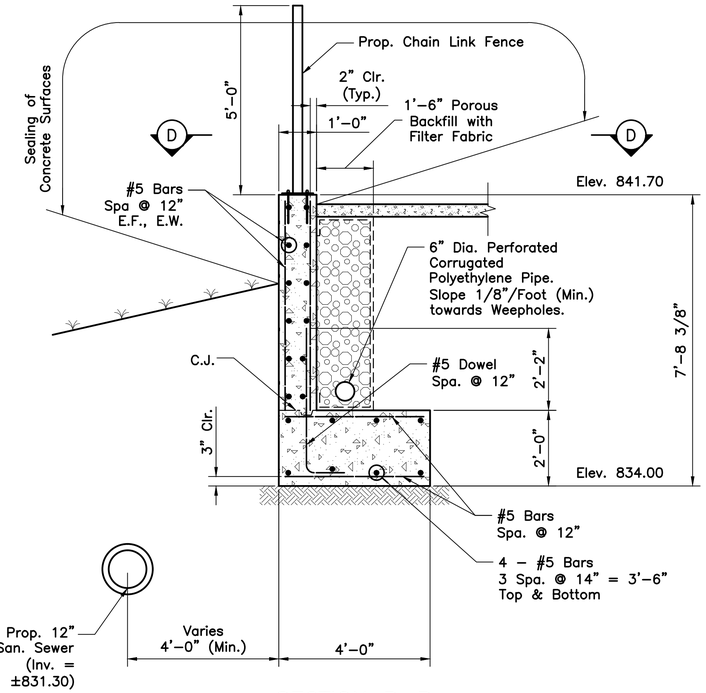
Porous backfill shall be placed behind the retaining wall and shall extend from below the walk to 6" below the weephole elevation. Place two cubic feet of bagged aggregate at each weephole.

Backfill shall not be placed and the structure shall not impound water until concrete has achieved 4000 psi. Water shall not be impounded against the structure until backfill is in place.

All exposed non–reentrant corners of concrete shall be cast with a 3/4" x 3/4" chamfer.

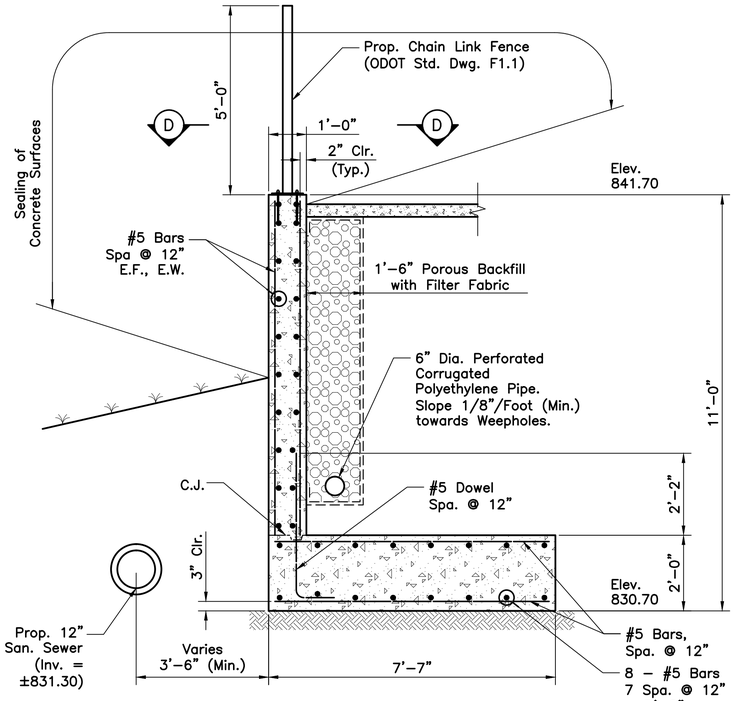
Railing shall be chain link fence. Posts that are to be mounted on wall shall be according to details on this sheet. Railing, posts, plates and anchors shall be galvanized.

All concrete surfaces above grade shall be treated with a clear sealer designed to protect concrete surfaces from graffiti. The material shall be applied in conformance with manufacturer's recommendations. One brand of sealer shall be used for all treated surfaces. Contractor shall provide owner with 5 gallons of unopened sealer for future use by owner. Cost of additional sealer provided to owner shall be included in the price for the wall. Sealer shall be approved prior to application.



SECTION B–B

(1/2" = 1'-0")



SECTION C–C

(1/2" = 1'-0")

RETAINING WALLS SECTIONS AND GENERAL NOTES

PROJECT NAME

HORIZ. 2 0 2 — VERTICAL SCALE 2 0 2 1

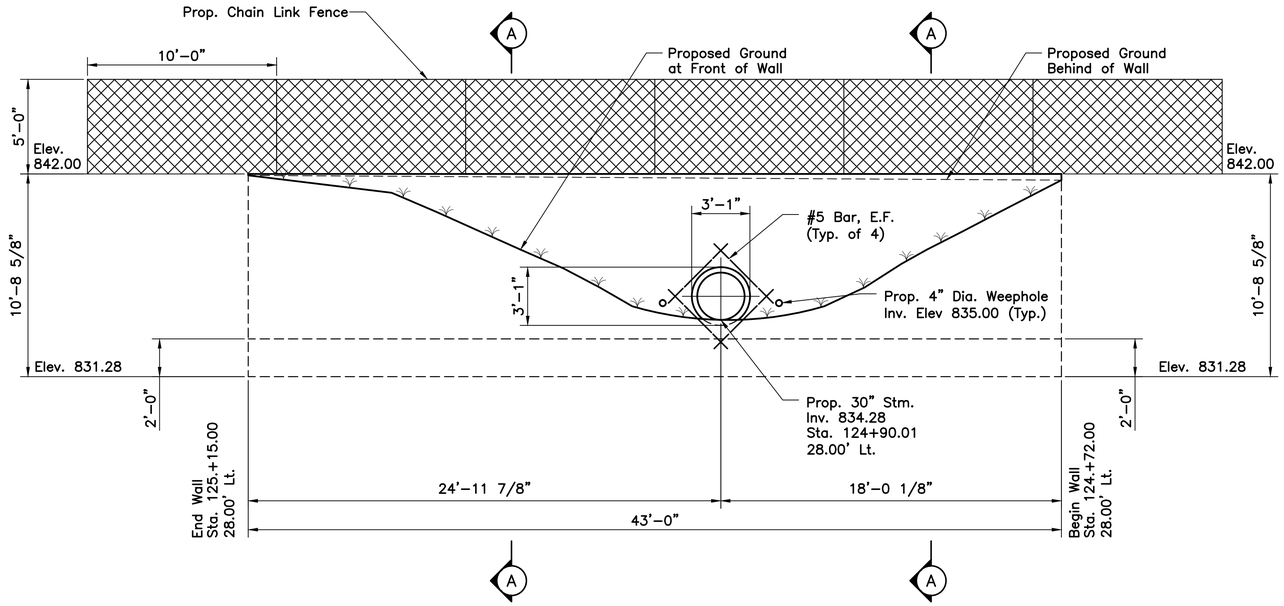
CALCULATED | CHECKED

X / XX

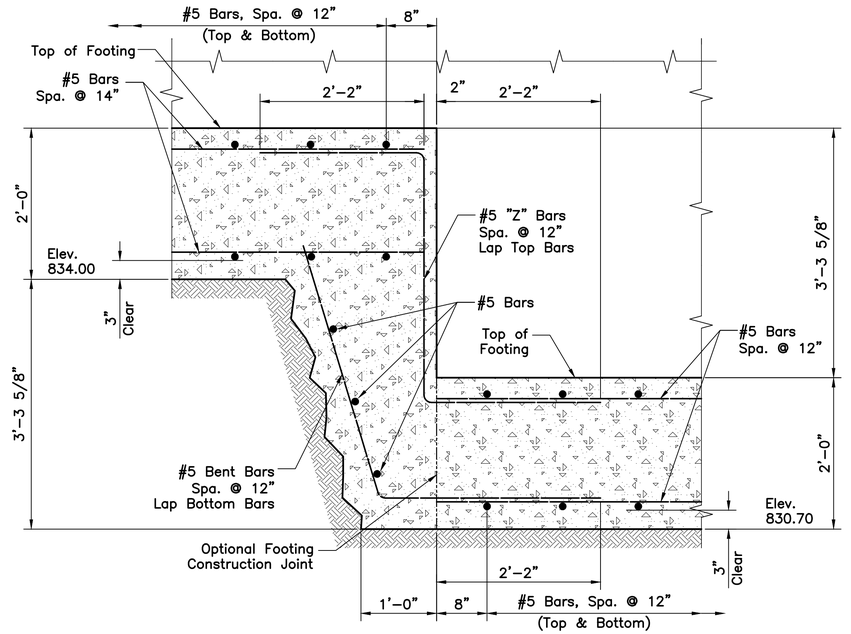
XXXX–E

REVISED 12/2/11

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\18_01 STRUCTURES.dwg (Section & Notes)

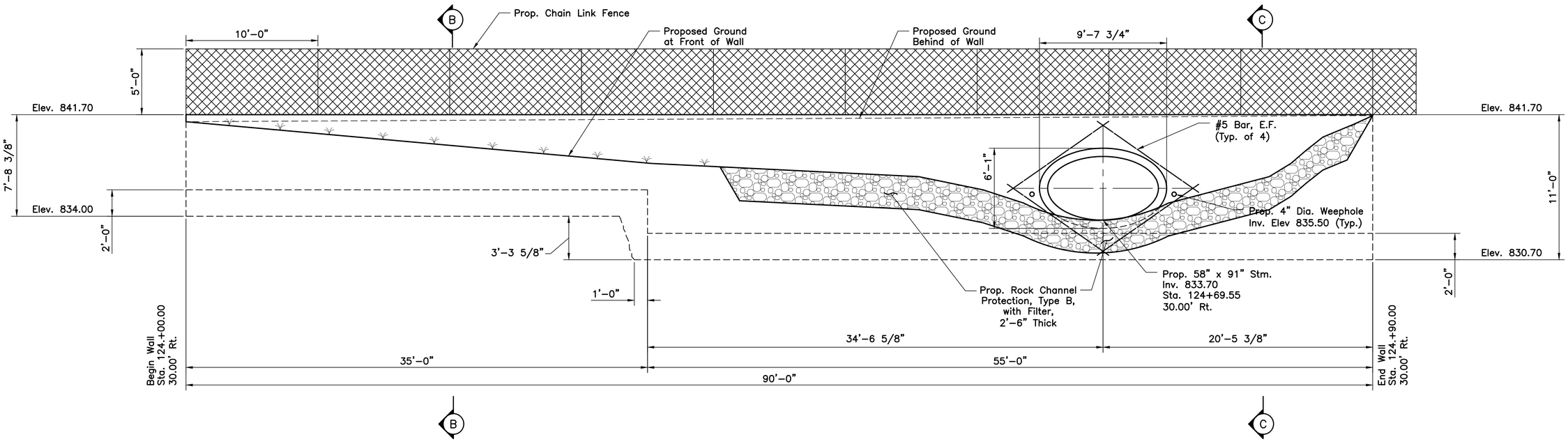


R2 – WEST WALL (WEST ELEVATION)



FOOTING STEP DETAIL

(1" = 1'-0")



R1 – EAST WALL (EAST ELEVATION)

HORIZ. VERTICAL SCALE

CALCULATED

CHECKED

RETAINING WALL DETAILS

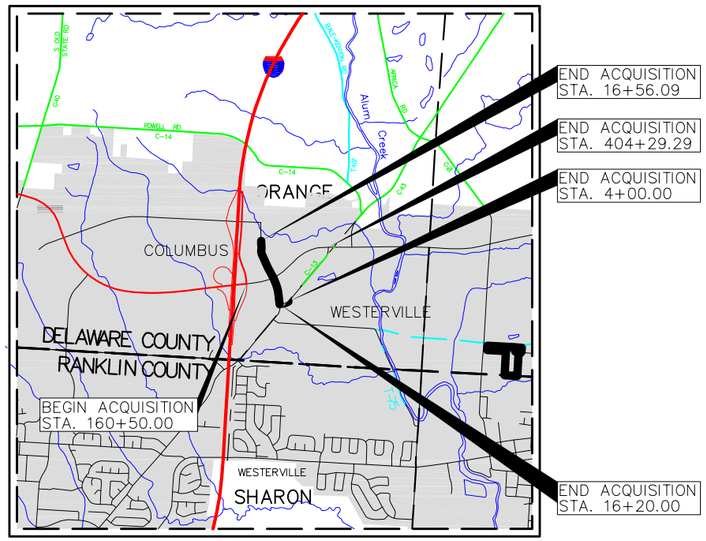
PROJECT NAME

XXXX-E

X
XX

REVISED 12/2/11

J:\Design and Construction\Design\Plan Review_SAMPLE SHEETS (E-Plan)\CAD Drawings\18_02 STRUCTURES.dwg (Details)



LOCATION MAP

LATITUDE: 40°08'40" N LONGITUDE: 82°57'50" W

SCALE IN MILES

0 0.5 1 1.5 2

N

PORTION TO BE IMPROVED

RIGHT OF WAY LEGEND SHEET ARTERIAL STREET REHABILITATION – POLARIS PARKWAY

DELAWARE COUNTY
ORANGE TOWNSHIP
CITY OF COLUMBUS
CITY OF WESTERVILLE
UNITED STATES MILITARY DISTRICT
QUARTER TWP. 4, T. 3 N., R. 18 W.
FARM LOT 17, 18, 19 & 20

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE WIDENING OF 0.57 MILE OF POLARIS PARKWAY FROM I.R. 71 TO OLDE WORTHINGTON ROAD TO PROVIDE A THIRD THROUGH LANE IN BOTH DIRECTIONS. THE PROJECT ALSO INCLUDES THE FULL DEPTH REPLACEMENT OF 0.39 MILE OF WORTHINGTON ROAD/ORION PLACE, INCLUDING THE CONSTRUCTION OF A TWO–LANE ROUNDABOUT AT THE INTERSECTION OF OLDE WORTHINGTON ROAD. NUMEROUS OTHER IMPROVEMENTS INCLUDING TRAFFIC SIGNAL REPLACEMENT, SIDEWALK AND SHARED–USED PATHS, RETAINING WALL CONSTRUCTION, LANDSCAPING AND STREET LIGHTING ARE PART OF THIS PROJECT.

PROJECT CONTROL

OHIO STATE PLANE GRID, NORTH ZONE
PROJECT ADJUSTMENT FACTOR 0.99996845

PLANS PREPARED BY:

FIRM NAME :_____

R/W DESIGNER:_____

R/W REVIEWER:_____

FIELD REVIEWER:_____

PRELIMINARY FIELD REVIEW DATE:_____

TRACINGS FIELD REVIEW DATE:_____

OWNERSHIP VERIFIED BY:_____

DATE COMPLETED:_____

PLAN COMPLETION DATE:_____

UTILITY OWNERS
SEE SHEET 2 FOR UTILITY OWNER LIST

CONVENTIONAL SYMBOLS
SEE SHEET 2 FOR CONVENTIONAL SYMBOLS

INDEX OF SHEETS:

LEGEND SHEET	1
UTILITY OWNER LIST	2
CENTERLINE PLAT	3–5
PROPERTY MAP	6–7
SUMMARY OF ADDITIONAL R/W	8–11
SUMMARY OF R/W ENCROACHMENTS	12
R/W TOPOGRAPHIC AND BOUNDARY SHEETS	13–54

I, HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE IN JUNE, 2015. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN.

AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROAD OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS NORTH OF POLARIS PARKWAY AS SHOWN HEREIN. AS A PART OF THIS WORK I HAVE SET THE RIGHT OF WAY MONUMENTS AT THE PROPERTY CORNERS, PROPERTY LINE INTERSECTIONS, POINTS ALONG THE RIGHT OF WAY AND/OR ANGLE POINTS ON THE RIGHT OF WAY, SECTION CORNERS AND OTHER POINTS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733–37 COMMONLY KNOWN AS "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISIONS.

_____
DATE

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT–BUILDING

PARCEL IDENTIFIER LEGEND:
WD = WARRANTY DEED
WDV = WARRANTY DEED IN THE NAME OF THE CITY OF WESTERVILLE, AN OHIO MUNICIPAL CORPORATION
T = TEMPORARY EASEMENT
S = SEWER EASEMENT
CHV = CHANNEL EASEMENT IN THE NAME OF THE CITY OF WESTERVILLE, AN OHIO MUNICIPAL CORPORATION
U = UTILITY EASEMENT

I, HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE IN JUNE, 2015. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN.

AS A PART OF THIS PROJECT I HAVE ESTABLISHED THE PROPOSED PROPERTY LINES, CALCULATED THE GROSS TAKE, PRESENT ROAD OCCUPIED (PRO), NET TAKE AND NET RESIDUE; AS WELL AS PREPARED THE LEGAL DESCRIPTIONS NECESSARY TO ACQUIRE THE PARCELS SOUTH OF POLARIS PARKWAY AS SHOWN HEREIN. AS A PART OF THIS WORK I HAVE SET THE RIGHT OF WAY MONUMENTS AT THE PROPERTY CORNERS, PROPERTY LINE INTERSECTIONS, POINTS ALONG THE RIGHT OF WAY AND/OR ANGLE POINTS ON THE RIGHT OF WAY, SECTION CORNERS AND OTHER POINTS AS SHOWN HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733–37 COMMONLY KNOWN AS "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISIONS.

I FURTHER CERTIFY THAT THE PRIMARY CONTROL FOR THE PROJECT AS SHOWN HEREIN WERE CONSTRUCTED AND ESTABLISHED IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION'S SURVEY AND MAPPING SPECIFICATIONS, DATED JULY 19, 20 FOR A MINOR PROJECT AND MEET THE ACCURACY REQUIREMENTS AS SET FORTH THEREIN.

_____
DATE

3221-E

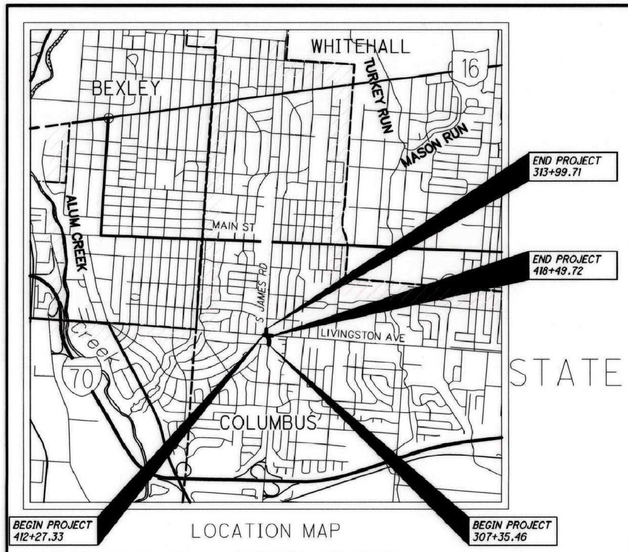
FEDERAL PROJECT NO. E130 (728)
PID NO. 95549
CALCULATED
CHECKED
RIGHT_OF_WAY_LEGEND_SHEET
ARTERIAL STREET REHABILITATION – POLARIS PARKWAY
1/54
374/427

JAMES RD AT LIVINGSTON AVE RIGHT OF WAY

STATE OF OHIO, COUNTY OF FRANKLIN, CITY OF COLUMBUS

SECTIONS 18 & 19, T 12, R 21

REFUGEE LANDS



LOCATION MAP

LATITUDE: 39° 56' 49" LONGITUDE: 82° 54' 56"

SCALE IN MILES
0 0.5 1 1.5 2

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
STATE ROUTES
OTHER ROADS

PROJECT EARTH DISTURBED AREA: 1.00 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.125 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 1.13 ACRES

TYPES OF TITLE LEGEND:
WD = WARRANTY DEED
T = TEMPORARY EASEMENT

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

Ohio Utilities Protection Service Call 811 before you dig

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

* NOT A MEMBER OF OUPS, CONTACT INDEPENDENTLY

BASIS FOR BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH (REFERENCE SOUTH 85 DEGREES 47 MINUTES 50 SECONDS EAST FOR LIVINGSTON AVENUE EAST OF JAMES ROAD) AS REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (CORS '96), AS ESTABLISHED UTILIZING A GPS SURVEY REFERENCING ODOT CORS STATIONS "COLB", "OHLI" AND "OHMD".

PROJECT CONTROL

STATE PLANE OHIO SOUTH, NAD 83 (CORS 96)
PROJECT ADJUSTMENT FACTOR 0.999947511

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP TMP
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Construction Limits
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Post (Ex) , Mailbox (Ex) MB Mailbox (Pr) MB
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex) WM
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

FINAL TRACINGS RIGHT-OF-WAY

DATE OF SUBMITTAL: JANUARY 3, 2019

INDEX OF SHEETS:

LEGEND SHEET	1
CENTERLINE PLAT	2
PROPERTY MAP	3
SUMMARY OF ADDITIONAL R/W	4-5
R/W TOPO SHEETS	6-12 (EVEN SHEETS)
R/W BOUNDARY SHEETS	7-13 (ODD SHEETS)

PLANS PREPARED BY:

FIRM NAME : [redacted]
R/W DESIGNER: [redacted]
R/W REVIEWER: [redacted]
FIELD REVIEWER: [redacted]
PRELIMINARY FIELD REVIEW DATE: 7/25/18
TRACINGS FIELD REVIEW DATE: 1/2/19
OWNERSHIP UPDATED BY: [redacted]
DATE COMPLETED: DECEMBER 13, 2018
PLAN COMPLETION DATE: JANUARY 3, 2019

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE INTERSECTION OF JAMES RD AND LIVINGSTON AVE BY REMOVING THE EXISTING SPAN WIRE SIGNALS AND REPLACING THEM WITH A MAST ARM INSTALLATION WITH AN EASTBOUND AND WESTBOUND RIGHT TURN LANE. DRAINAGE, WATERMAIN, AND LIGHTING IMPROVEMENTS ARE ALSO INCLUDED IN THIS PROJECT.

UTILITIES

UTILITIES KNOWN TO BE LOCATED WITHIN THE LIMITIS OF THIS PROJECT ARE LISTED BELOW WITH CONTACT INFORMATION.

AEP OHIO
700 MORRISON RD
GAHANNA, OH 43230
PH: 614-883-6802
ATTN: BRENT GATES
ATTN: ROD SLONEKER

AEP TRANSMISSION
700 MORRISON RD
GAHANNA, OH 43230
PH: 614-552-1893
ATTN: MIKE CARR

COLUMBIA GAS OF OHIO
3550 JOHNNY APPLESEED CT
COLUMBUS, OH 43231
CELL: 614-370-1906
ATTN: ROB CALDWELL

CHARTER
3760 INTERCHANGE RD
COLUMBUS, OH 43204
PH: 614-255-0855
CELL: 614-679-1521
ATTN: JEFFREY WHATLEY

AT&T OHIO
111 N 4TH ST
COLUMBUS, OH 43215
PH: 614-223-7276
CELL: 740-532-9943
ATTN: CHARLES JOHNSON

COTA
33 N HIGH ST
8TH FLOOR, WILLIAM LHOTA BL
COLUMBUS, OH 43215

I, [redacted], P.S. have established the proposed property lines, calculated the Gross Take, Present Roadway Occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire these parcels as shown herein. As part of this work I have set right of way monuments at the property corners, property line intersection, points along the right of way and/or angle points on the right of way, Section Corners and other points as shown herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself of someone working under my direct supervision.

[redacted]

[redacted]

FEDERAL PROJECT NO. E160 (205)
PID NO. 101787
CALCULATED
CHECKED
RIGHT OF WAY LEGEND SHEET
JAMES RD AT LIVINGSTON AVE
1 / 13
95 / 107

UTILITY OWNERS

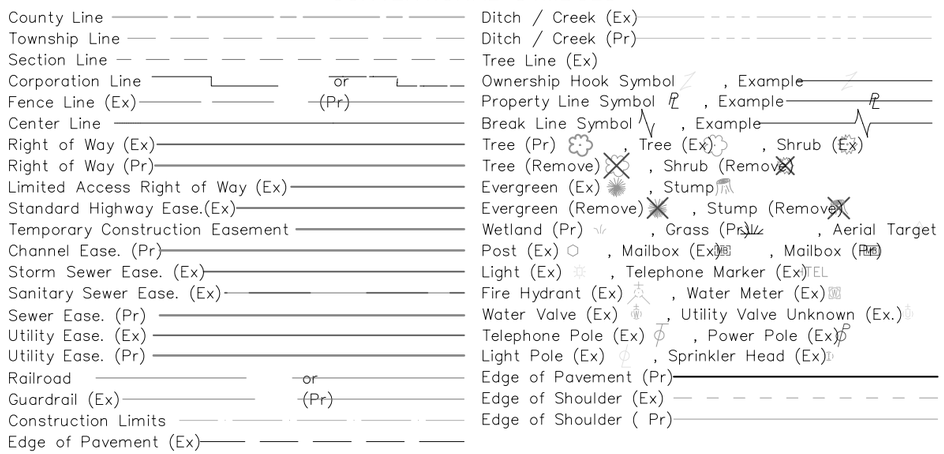
TYPE	NAME & ADDRESS	TYPE	NAME & ADDRESS	TYPE	NAME & ADDRESS	TYPE	NAME & ADDRESS
SANITARY	CITY OF COLUMBUS – DIVISION OF SEWERAGE AND DRAINAGE 1250 FAIRWOOD AVE. COLUMBUS, OHIO 43206 CONTACT: MR. MARK TIMBROOK PHONE: 614–645–0298 EMAIL: MDTIMBROOK@COLUMBUS.GOV	GAS	COLUMBIA GAS OF OHIO 3550 JOHNNY APPLESEED COURT COLUMBUS, OHIO 43231 CONTACT: MS. JENNIFER GORE PHONE: 614–818–2126 FAX: 614–818–2151 EMAIL: JGORE@NISOURCE.COM	FIBER OPTIC	COLUMBUS FIBERNET, LLC 1366 DUBLIN ROAD COLUMBUS, OHIO 43215 CONTACT: MR. MATT BLACKSTONE PHONE: 614–921–8524/614–395–9701 EMAIL: XXXXXXXXXXXX CONTACT: MR. SAMUEL THOMAS EMAIL: STHOMAS@TEAMFISHEL.COM	ELECTRIC	AMERICAN ELECTRIC POWER – AERIAL DISTRIBUTION 850 TECH CENTER DRIVE GAHANNA, OHIO 43230 CONTACT: MR. ROD SLONEKER PHONE: 614–883–6817/614–818–2151 FAX: 614–883–6868 EMAIL: RISLONEKER@AEP.COM
CABLE	TIME WARNER CABLE 3760 INTERCHANGE DRIVE COLUMBUS, OHIO 43204 CONTACT: MR. RAY MAURER PHONE: 614–481–5262 EMAIL: RAY.MAURER@TWCABLE.COM	CITY	CITY OF WESTERVILLE 64 E. WALNUT STREET WESTERVILLE, OHIO 43081 CONTACT: MR. JEFF KESSLER PHONE: 614–901–6669 EMAIL: JEFF.KESSLER@WESTERVILLE.ORG	ELECTRIC/ WATER	CITY OF COLUMBUS – DIVISION OF POWER AND WATER 910 DUBLIN ROAD, THIRD FLOOR COLUMBUS, OHIO 43215 CONTACT: MR. BILL STOVER PHONE: 614–645–3028	TELEPHONE	AT&T – OHIO 111 N FOURTH STREET COLUMBUS, OHIO 43215 CONTACT: MR. GARY VAN ALMSICK PHONE: 614–223–7276 EMAIL: GV2758@ATT.COM
ELECTRIC	CITY OF COLUMBUS – DIVISION OF POWER 3568 INDIANOLA AVENUE COLUMBUS, OHIO 43214 CONTACT: CHRIS VOGEL PHONE: 614–645–6963 EMAIL: CVOGEL@COLUMBUS.GOV	WATER	CITY OF COLUMBUS – DIVISION OF WATER 910 DUBLIN ROAD COLUMBUS, OHIO 43215 CONTACT: MR. TIM HUFFMAN, P.E. PHONE: 614–645–0856 EMAIL: TEHUFFMAN@COLUMBUS.GOV	ELECTRIC	AMERICAN POWER AND LIGHT, LLC P.O. BOX 182937 COLUMBUS, OHIO 43218 CONTACT: N/A (CUSTOMER SERVICE) PHONE: 888–850–0098 EMAIL: CUSTOMERSERVICE@ELECTRICAPL.COM	CABLE/ TELEPHONE	LIGHTOWER (FIBERTECH NETWORKS) 470 SCHROCK ROAD, SUITE B COLUMBUS, OH 43229 CONTACT: MR. JON TARNOWSKI PHONE: 585–445–5813 EMAIL: JTARNOWSKI@LIGHTOWER.COM
CITY	CITY OF COLUMBUS – DIVISION OF CONSTRUCTION MANAGEMENT 1820 E. 17TH AVENUE COLUMBUS, OHIO 43219 CONTACT: MR. DENNY MCELROY PHONE: 614–645–7799	CABLE/ TELEPHONE	XO COMMUNICATIONS 6900 SOUTHPOINTE PARKWAY BRECKSVILLE, OHIO 44141 CONTACT: MR. DALE FERGUSON PHONE: 216–619–3492 EMAIL: DALE.FERGUSON@XO.COM	CABLE/ TELEPHONE	LEVEL 3 COMMUNICATIONS 250 W. OLD WILSON BRIDGE ROAD, SUITE 130 WORTHINGTON, OHIO 43085 CONTACT: MR. STEVE KAUFFMAN PHONE: 614–255–2112 EMAIL: STEVE.KAUFFMAN@LEVEL3.COM	GAS	SUBURBAN NATURAL GAS 2626 LEWIS CENTER DRIVE LEWIS CENTER, OHIO 43035 CONTACT: MR. AARON ROLL PHONE: 740–548–2450 EMAIL: AROLL@SNGCO.COM
WATER	DELCO WATER – ASSISTANT ENGINEER 6658 OLENTANGY RIVER ROAD DELAWARE, OHIO 43015 CONTACT: MR. WILLIAM HAMILTON PHONE: 740–548–7746 EMAIL: DWOLF@DELCOWATER.COM	TELEPHONE	VERIZON BUSINESS (A.K.A. MCI) – OUTSIDE PLANT ENGINEER 120 RAVINE STREET AKRON, OHIO 44303 CONTACT: MR. AL GUEST PHONE: 330–253–8267 EMAIL: ALLAN.GUEST@VERIZON.COM	CITY	CITY OF COLUMBUS – TRAFFIC SIGNALS 1820 E. 17TH AVENUE COLUMBUS, OHIO 43219 CONTACT: MR. TIM SWAUGER PHONE: 614–724–2022 FAX: 614–645–5967 EMAIL: TISWAUGER@COLUMBUS.GOV	ELECTRIC	CONSOLIDATED ELECTRIC COOPERATIVE, INC. – DIRECTOR OF ENGINEERING 5255 STATE ROUTE 95, PO BOX 111 MT GILEAD, OHIO 43338 CONTACT: MR. DAN AMATO PHONE: 1–888–891–7224 EMAIL: DAMATO@CONSOLIDATED.COOP
TELEPHONE	PRIME TECH (LEVEL 3 COMMUNICATIONS) 4505 MUHLHAUSER ROAD HAMILTON, OHIO 45011 CONTACT: MR. ERIC BIEHLE PHONE: 513–942–6000, EXT. 111 ERIC@PRIMETECHUSA.COM	INTERNET/ CABLE	WOW INTERNET, CABLE, & PHONE 3675 CORPORATE DRIVE COLUMBUS, OHIO 43231 CONTACT: MR. MARK FREY ENGINEER: ROB MILLER UTILITY ONE PHONE: 614–800–4934 EMAIL: RMILLER.UTILITYONE@OUTLOOK.COM	CITY	CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY CITY HALL, 90 WEST BROAD STREET, ROOM 316 COLUMBUS, OHIO 43215 CONTRACTOR LINE: 614–645–7756 CABLE LOCATE FAX: 614–645–6627	CITY	CITY OF COLUMBUS SUPPORT SERVICES DIVISION – COMMUNICATIONS 4211 GROVES ROAD COLUMBUS, OHIO 43232 TELEPHONE: 614–724–7047 FAX: 614–645–6588 RADIO ROOM: 614–724–4006

LISTED ABOVE ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS

ABBREVIATIONS

G.L.....GAS LINE
W.L.....WATERLINE
E.....UNDERGROUND ELECTRIC
T.....UNDERGROUND TELEPHONE
OH–E.....OVERHEAD ELECTRIC
OH–COMB.....OVERHEAD ELECTRIC & TELEPHONE
SAN.....SANITARY SEWER
ICV.....IRRIGATION CONTROL VALVE
(DND).....DO NOT DISTURB
(TBR).....TO BE REMOVED
(TBRO).....TO BE REMOVED BY OTHERS

CONVENTIONAL SYMBOLS



REV. BY	DATE	DESCRIPTION

DATE COMPLETED: 11/04/2016

3221-E

FEDERAL PROJECT NO. E130 (728)
PID NO. 95549
CALCULATED
CHECKED
RIGHT_OF_WAY UTILITY_LIST
ARTERIAL STREET REHABILITATION – POLARIS PARKWAY
2 / 54
375 / 427

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

THE TABLE ON SHEET 5 INDICATES PROPERTY CORNER AND RIGHT OF WAY MONUMENTATION THAT ARE EXPECTED TO BE DISRUPTED OR DESTROYED BY CONSTRUCTION OPERATIONS. THESE MONUMENTS INCLUDE EXISTING AND NEWLY PLACED MONUMENTS SET FOR THIS PROJECT. UPON CONTRUCTION COMPLETION, THE CONTRACTOR SHALL PROVIDE A LIST OF THE DISTURBED MONUMENTS TO THE CITY OF COLUMBUS AND THE DESIGN CONSULTANT IN ORDER THAT MONUMENTATION CAN BE REPLACED. [redacted] WILL RE-SET MONUMENTATION AS REQUIRED, AND SHALL BE CONTACTED AT [redacted] ONCE CONSTRUCTION IS COMPLETED.

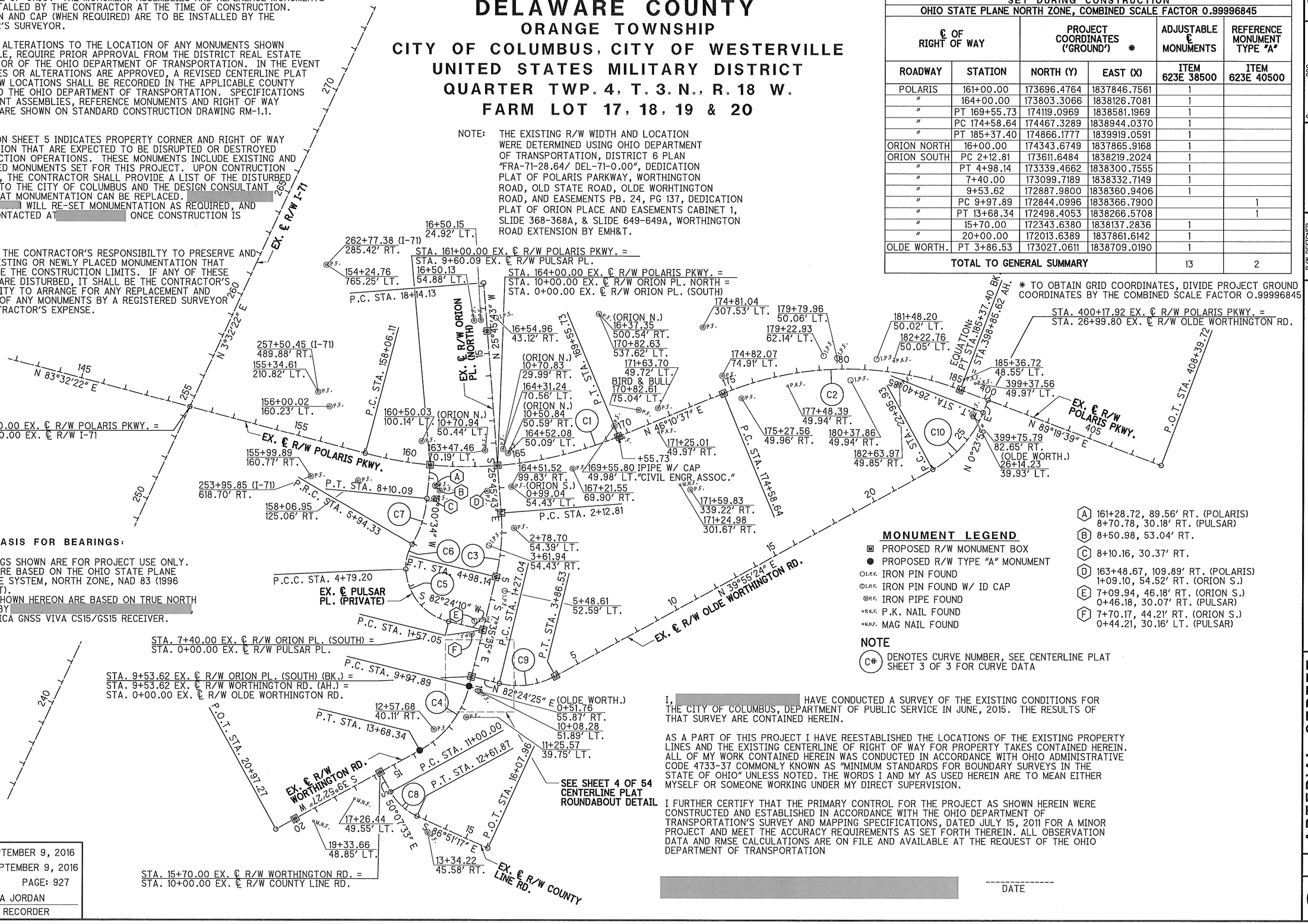
IT SHALL BE THE CONTRACTOR'S RESPONSIBILTY TO PRESERVE AND PROTECT EXISTING OR NEWLY PLACED MONUMENTATION THAT FALL OUTSIDE THE CONSTRUCTION LIMITS. IF ANY OF THESE MONUMENTS ARE DISTURBED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR ANY REPLACEMENT AND RE-SETTING OF ANY MONUMENTS BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

DELAWARE COUNTY
ORANGE TOWNSHIP
CITY OF COLUMBUS, CITY OF WESTERVILLE
UNITED STATES MILITARY DISTRICT
QUARTER TWP. 4, T. 3. N., R. 18 W.
FARM LOT 17, 18, 19 & 20

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 6 PLAN "FRA-71-28.64/ DEL-71-0.00", DEDICATION PLAT OF POLARIS PARKWAY, WORTHINGTON ROAD, OLD STATE ROAD, OLDE WORHTINGTON ROAD, AND EASEMENTS PB. 24, PG 137, DEDICATION PLAT OF ORION PLACE AND EASEMENTS CABINET 1, SLIDE 368-368A, & SLIDE 649-649A, WORTHINGTON ROAD EXTENSION BY EMH&T.

MONUMENTS TO BE SET DURING CONSTRUCTION OHIO STATE PLANE NORTH ZONE, COMBINED SCALE FACTOR 0.99996845					
℄ OF RIGHT OF WAY		PROJECT COORDINATES ('GROUND') *		ADJUSTABLE ℄ MONUMENTS	REFERENCE MONUMENT TYPE "A"
ROADWAY	STATION	NORTH (Y)	EAST (X)	ITEM 623E 38500	ITEM 623E 40500
POLARIS	161+00.00	173696.4764	1837846.7561	1	
"	164+00.00	173803.3066	1838126.7081	1	
"	PT 169+55.73	174119.0969	1838581.1969	1	
"	PC 174+58.64	174467.3289	1838944.0370	1	
"	PT 185+37.40	174866.1777	1839919.0591	1	
ORION NORTH	16+00.00	174343.6749	1837865.9168	1	
ORION SOUTH	PC 2+12.81	173611.6484	1838219.2024	1	
"	PT 4+98.14	173339.4662	1838300.7555	1	
"	7+40.00	173099.7189	1838332.7149	1	
"	9+53.62	172887.9800	1838360.9406	1	
"	PC 9+97.89	172844.0996	1838366.7900		1
"	PT 13+68.34	172498.4053	1838266.5708		1
"	15+70.00	172343.6380	1838137.2836	1	
"	20+00.00	172013.6389	1837861.6142	1	
OLDE WORTH.	PT 3+86.53	173027.0611	1838709.0190	1	
TOTAL TO GENERAL SUMMARY				13	2

* TO OBTAIN GRID COORDINATES, DIVIDE PROJECT GROUND COORDINATES BY THE COMBINED SCALE FACTOR 0.99996845



BASIS FOR BEARINGS:

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY. BEARINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83 (1996 ADJUSTMENT).
BEARINGS SHOWN HEREON ARE BASED ON TRUE NORTH OBSERVED BY [redacted] USING A LEICA GNSS VIVA CS15/GS15 RECEIVER.

MONUMENT LEGEND

- PROPOSED R/W MONUMENT BOX
- PROPOSED R/W TYPE "A" MONUMENT
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- P.F. IRON PIPE FOUND
- P.K.F. P.K. NAIL FOUND
- M.N.F. MAG NAIL FOUND

NOTE

C# DENOTES CURVE NUMBER, SEE CENTERLINE PLAT SHEET 3 OF 3 FOR CURVE DATA

A 161+28.72, 89.56' RT. (POLARIS) 8+70.78, 30.18' RT. (PULSAR)
B 8+50.98, 53.04' RT.
C 8+10.16, 30.37' RT.
D 163+48.67, 109.89' RT. (POLARIS) 1+09.10, 54.52' RT. (ORION S.)
E 7+09.94, 46.18' RT. (ORION S.) 0+46.18, 30.07' RT. (PULSAR)
F 7+70.17, 44.21' RT. (ORION S.) 0+44.21, 30.16' LT. (PULSAR)

I, [redacted] HAVE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS FOR THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE IN JUNE, 2015. THE RESULTS OF THAT SURVEY ARE CONTAINED HEREIN.

AS A PART OF THIS PROJECT I HAVE REESTABLISHED THE LOCATIONS OF THE EXISTING PROPERTY LINES AND THE EXISTING CENTERLINE OF RIGHT OF WAY FOR PROPERTY TAKES CONTAINED HEREIN. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN EITHER MYSELF OR SOMEONE WORKING UNDER MY DIRECT SUPERVISION.

I FURTHER CERTIFY THAT THE PRIMARY CONTROL FOR THE PROJECT AS SHOWN HEREIN WERE CONSTRUCTED AND ESTABLISHED IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION'S SURVEY AND MAPPING SPECIFICATIONS, DATED JULY 15, 2011 FOR A MINOR PROJECT AND MEET THE ACCURACY REQUIREMENTS AS SET FORTH THEREIN. ALL OBSERVATION DATA AND RMSE CALCULATIONS ARE ON FILE AND AVAILABLE AT THE REQUEST OF THE OHIO DEPARTMENT OF TRANSPORTATION

[redacted] DATE

RECEIVED: SEPTEMBER 9, 2016
RECORDED: SEPTEMBER 9, 2016
BOOK: 1450 PAGE: 927
MELISSA JORDAN
COUNTY RECORDER

HORIZONTAL SCALE IN FEET 0 100 200 400

PID NO. 95549

R/W DESIGNER [redacted]
R/W REVIEWER [redacted]

CENTERLINE PLAT (1 OF 3)
EXISTING RIGHT-OF-WAY

ARTERIAL STREET REHABILITATION - POLARIS PARKWAY

3 / 54

376 / 427

DELAWARE COUNTY
ORANGE TOWNSHIP
CITY OF COLUMBUS, CITY OF WESTERVILLE
UNITED STATES MILITARY DISTRICT
QUARTER TWP. 4, T. 3. N., R. 18 W.
FARM LOT 17, 18, 19, & 20

N

0 25 50 100
HORIZONTAL SCALE IN FEET

PID NO. 95549

R/W DESIGNER

R/W REVIEWER

CENTERLINE PLAT (2 OF 3)
ROUNDABOUT DETAIL

ARTERIAL STREET REHABILITATION - POLARIS PARKWAY

4 / 54

377 / 427

C1 **EX. CURVE DATA**
R/W POLARIS PARKWAY
P.I. STA. 164+02.19
Δ = 37°21'45" (LT)
Dc = 3°15'00"
R = 1,762.95'
T = 596.08'
L = 1,149.62'
E = 98.05'
C = 1,129.36'
C.B. = N 64°51'29" E

C2 **EX. CURVE DATA**
R/W POLARIS PARKWAY
P.I. STA. 180+25.05
Δ = 43°09'02" (RT)
Dc = 4°00'00"
R = 1,432.39'
T = 566.41'
L = 1,078.76'
E = 107.92'
C = 1,053.45'
C.B. = N 67°45'08" E

C3 **EX. CURVE DATA**
R/W ORION PLACE (SOUTH)
P.I. STA. 3+56.68
Δ = 18°09'53" (RT)
Dc = 6°21'58"
R = 900.00'
T = 143.87'
L = 285.33'
E = 11.43'
C = 284.14'
C.B. = S 16°40'47" E

C4 **EX. CURVE DATA**
R/W WORTHINGTON RD.
P.I. STA. 11+94.52
Δ = 47°31'14" (RT)
Dc = 12°49'39"
R = 446.66'
T = 196.63'
L = 370.46'
E = 41.37'
C = 359.93'
C.B. = S 16° 10' 02" W

C5 **EX. CURVE DATA**
R/W PULSAR PLACE
P.I. Sta. 3+44.86
Δ = 73°49'53" (RT)
Dc = 22°55'06"
R = 250.00'
T = 187.81'
L = 322.15'
E = 62.69'
C = 300.32'
C.B. = N 60°40'54" W

C6 **EX. CURVE DATA**
R/W PULSAR PLACE
P.I. Sta. 5+38.41
Δ = 32°58'54" (RT)
Dc = 28°38'52"
R = 200.00'
T = 59.21'
L = 115.13'
E = 8.58'
C = 113.55'
C.B. = N 7°16'30" W

C7 **EX. CURVE DATA**
R/W PULSAR PLACE
P.I. Sta. 7+03.98
Δ = 25°13'44" (LT)
Dc = 11°41'35"
R = 490.00'
T = 109.66'
L = 215.76'
E = 12.12'
C = 214.02'
C.B. = N 3°23'55" W

C8 **EX. CURVE DATA**
R/W COUNTY LINE RD.
P.I. STA. 11+83.83
Δ = 36°43'44" (LT)
Dc = 22°41'29"
R = 252.50'
T = 83.82'
L = 161.86'
E = 13.55'
C = 159.11'
C.B. = S 68°29'25" E

C9 **EX. CURVE DATA**
R/W OLDE WORTHINGTON RD.
P.I. STA. 2+63.08
Δ = 42°28'46" (LT)
Dc = 16°22'13"
R = 350.00'
T = 136.04'
L = 259.49'
E = 25.51'
C = 253.59'
C.B. = N 61°10'02" E

C10 **EX. CURVE DATA**
OLDE WORTHINGTON RD.
P.I. STA. 24+75.58
Δ = 39°31'30" (LT)
Dc = 11°27'33"
R = 500.00'
T = 179.64'
L = 344.92'
E = 31.29'
C = 338.12'
C.B. = N 20°09'40" E

C20 **PROP. CURVE DATA**
CONSTRUCTION ORION PLACE (SOUTH)
P.I. STA. 7+80.72
Δ = 18°33'47" (LT)
Dc = 17°30'00"
R = 327.40'
T = 53.51'
L = 106.07'
E = 4.34'
C = 105.61'
C.B. = S 16°52'28" E

C21 **PROP. CURVE DATA**
CONSTRUCTION ORION PLACE (SOUTH)
P.I. Sta. 8+79.75
Δ = 16°09'21" (RT)
Dc = 17°30'00"
R = 327.40'
T = 46.47'
L = 92.32'
E = 3.28'
C = 92.01'
C.B. = S 18°04'41" E

C22 **PROP. CURVE DATA**
CONSTRUCTION WORTHINGTON RD.
P.I. STA. 11+90.42
Δ = 39°52'27" (RT)
Dc = 17°30'00"
R = 327.40'
T = 118.76'
L = 227.85'
E = 20.87'
C = 223.28'
C.B. = S 19°56'14" W

C23 **PROP. CURVE DATA**
CONSTRUCTION OLDE WORTHINGTON RD.
P.I. STA. 1+74.74
Δ = 39°36'42" (LT)
Dc = 17°30'00"
R = 327.40'
T = 117.91'
L = 226.35'
E = 20.58'
C = 221.87'
C.B. = N 59°43'45" E

EXISTING MONUMENTS EXPECTED TO BE DISTURBED DURING CONSTRUCTION

OHIO STATE PLANE NORTH ZONE, COMBINED SCALE FACTOR 0.99996845

℄ OF RIGHT OF WAY			PROJECT COORDINATES ('GROUND')		R/W MON. EXPECTED TO BE DISTURBED
ROADWAY	STATION	OFFSET	NORTH (Y)	EAST (X)	R/W MON.
POLARIS	163+28.00	70.00 LT	173837.578	1838033.418	1
"	163+48.69	110.00 RT	173681.267	1838125.090	1*
"	164+74.91	75.00 LT	173903.429	1838158.099	1
"	164+75.00	80.00 RT	173766.826	1838231.343	1
"	165+15.00	70.00 RT	173795.706	1838263.044	1
"	167+21.44	70.00 RT	173912.082	1838443.249	1
"	170+82.57	75.00 LT	174361.038	1838620.779	1*
"	171+24.92	70.00 RT	174185.751	1838751.739	1
"	174+58.64	70.00 RT	174416.825	1838992.507	1
"	174+82.17	65.00 LT	174531.117	1838916.921	1
"	175+28.50	70.00 RT	174461.563	1839041.556	1
"	176+85.00	65.00 LT	174663.936	1839081.967	1
"	177+09.00	70.00 RT	174565.898	1839177.812	1
"	177+09.00	77.00 RT	174560.082	1839181.707	1
"	177+50.34	77.00 RT	174581.376	1839214.521	1
"	177+69.95	77.00 RT	174591.143	1839230.295	1
"	177+69.96	70.00 RT	174597.120	1839226.653	1
"	178+00.00	65.00 LT	174728.456	1839183.367	1
"	179+22.63	65.00 LT	174788.061	1839296.821	1
"	180+43.22	70.00 RT	174710.502	1839460.099	1
"	181+48.07	65.00 LT	174871.488	1839516.973	1
"	182+22.64	65.00 LT	174891.337	1839592.341	1
"	182+72.94	70.00 RT	174770.095	1839670.065	1
"	185+00.00	70.00 RT	174795.301	1839884.323	1
"	398+85.62	72.00 RT	174794.183	1839919.904	1
"	399+65.97	72.00 RT	174795.126	1840000.249	1
"	399+75.65	82.55 RT	174784.693	1840010.048	1*
ORION NORTH	11+15.00	50.00 LT	173885.145	1838031.695	1
"	11+15.00	50.00 RT	173928.608	1838121.756	1
"	12+61.58	50.00 LT	174017.152	1837967.988	1
ORION SOUTH	1+25.00	65.00 LT	173718.982	1838239.577	1
"	2+12.81	65.00 LT	173639.900	1838277.742	1
"	2+82.03	65.00 LT	173571.885	1838307.398	1
"	3+61.93	54.50 RT	173457.338	1838220.301	1*
"	4+98.14	65.00 LT	173348.055	1838365.186	1
"	5+49.29	65.00 LT	173297.356	1838371.944	1
"	6+00.00	55.00 LT	173245.768	1838368.732	1
"	7+10.01	46.09 RT	173123.362	1838283.061	1*
"	7+27.21	55.00 LT	173119.672	1838385.542	1
"	7+70.01	43.71 RT	173064.203	1838293.349	1*
"	8+11.13	68.40 LT	173038.263	1838409.915	1
"	9+13.62	102.00 LT	172941.107	1838456.761	1
"	9+25.00	40.00 RT	172911.064	1838317.510	1
"	9+85.00	78.00 RT	172846.569	1838287.771	1
"	11+50.00	50.00 RT	172703.157	1838312.155	1
"	12+01.14	65.50 LT	172622.751	1838409.800	1
"	12+25.00	40.00 RT	172635.776	1838302.306	1
"	12+63.19	46.80 RT	172607.048	1838282.091	1
"	13+03.61	50.65 RT	172577.438	1838261.255	1
"	15+00.00	48.00 LT	172366.593	1838219.004	1
"	15+30.01	84.50 LT	172320.163	1838227.778	1
TOTAL (FOR INFORMATION ONLY)					51

* DENOTES PROPERTY MONUMENTATION EXISTING BEFORE THE START OF THIS PROJECT. ALL OTHERS ARE NEWLY PLACED MONUMENTS SET AFTER THE ACQUISITION OF THE ADDITONAL RIGHT OF WAY PARCELS NEEDED TO CONSTRUCT THIS PROJECT.

R/W DESIGNER
R/W REVIEWER
PID NO. 95549

CENTERLINE PLAT (3 OF 3)
CURVE INFORMATION

ARTERIAL STREET REHABILITATION - POLARIS PARKWAY

RECEIVED _____, 20 ___
RECORDED _____, 20 ___
PLAT BOOK _____ PAGE ___
FRANKLIN COUNTY RECORDER

TRANSFER
NOT NECESSARY
DEC 18 2018
CLARENCE E. MINGO II
AUDITOR
FRANKLIN COUNTY, OHIO
Michael Dotson
Deputy Auditor

JAMES ROAD AT LIVINGSTON AVE

STATE OF OHIO
COUNTY OF FRANKLIN, CITY OF COLUMBUS
SECTIONS 18 & 19, T 12,R 21
REFUGEE LANDS

NOTE: STATION AND OFFSET VALUES ARE REFERENCED TO THE EXISTING CENTERLINES OF RIGHT-OF-WAY FOR JAMES ROAD (300 STATION RANGE) AND LIVINGSTON AVENUE (400 STATION RANGE).

NOTE: THE JAMES ROAD PROPOSED ALIGNMENT ENDS AT STATION 114+00.00 TO MATCH THE STATIONING FROM THE 2979-E PROJECT.

NOTE: COORDINATES LISTED HEREIN ARE GROUND COORDINATES REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (96CORS), AS ESTABLISHED UTILIZING A GPS SURVEY ORIGINATING ON ODOT CORS STATIONS "OHLB", "OHLI" AND "OHMD"

NOTE: THE EXISTING RIGHT-OF-WAY WIDTH AND LOCATION WERE ESTABLISHED USING RECORD DEEDS AND PLATS ON FILE WITH THE OFFICE OF THE RECORDER FOR FRANKLIN COUNTY, OHIO INCLUDING THE FOLLOWING:

P.B. 19, PG. 25, P.B. 21, PG. 17, P.B. 22, PG. 30, P.B. 22, PG. 84
P.B. 33, PG. 89

D.B. 616, PG. 249, D.B. 1082, PG. 131, D.B. 1145, PG. 478, D.B. 1500, PG. 22, D.B. 2042, PG. 477, D.B. 2296, PG. 416, D.B. 2296, PG. 420, D.B. 2327, PG. 187, D.B. 2334, PG. 18, D.B. 2417, PG. 610, D.B. 2417, PG. 613, D.B. 2608, PG. 572, D.B. 2625, PG. 499, O.R. 14952, PG. E15, O.R. 24128, PG. A09, I.N. 199906230159270, I.N. 199906250161678, I.N. 199906250161680, I.N. 200010050203058, I.N. 200105030096059, I.N. 200210020246736, I.N. 200302070039872, I.N. 200502220032203, I.N. 200810030148760, I.N. 200810030148760, I.N. 201003120029585, I.N. 201208100116378, I.N. 201412160166721, I.N. 201711220165461, I.N. 201806210082504.

EXISTING ALIGNMENT POINTS

Point #	Northing	Easting	Station	Offset	Description
300	709086.646	1852070.422	307+67.91	0.00'	PC
301	709264.333	1852029.505	301+53.18	0.00'	PT
302	709371.183	1851966.164	414+25.93	0.00'	CL R/W INT (LIVINGSTON AVE)
			310+77.39	0.00'	(JAMES RD)
303	709372.656	1851946.121	414+05.83	0.00'	PT, CL R/W INT (LIVINGSTON AVE)
			310+77.39	0.00'	(JAMES RD)
400	709332.742	1852489.305	419+50.48	0.00'	POT

PROPOSED ALIGNMENT POINTS

Point #	Northing	Easting	Station	Offset	Description
150	709054.229	1852068.762	307+35.45	1.02' RT	PC
151	709262.429	1852030.485	309+51.04	0.12' LT	PT
152	709316.183	1852004.954	310+10.30	5.32' RT	PC
153	709364.001	1851985.339	310+61.43	12.83' RT	CL CONST INT (JAMES RD)
			414+45.58	5.76' RT	(LIVINGSTON AVE)
154	709559.365	1851960.321	312+64.64	0.35' LT	PT
155	709694.001	1851971.166	313+99.71	0.00'	PI, CL R/W INT
200	709391.993	1851688.547	411+47.53	0.00'	PI
201	709377.229	1851809.962	412+69.71	5.63 RT	PI
202	709346.039	1852223.489	416+84.40	6.22' RT	PI
203	709342.354	1852358.486	418+19.31	0.00'	PI

SURVEY CONTROL POINTS

Point #	Northing	Easting	Station	Offset	Description
4	709062.400	1852100.434	307+46.22	31.91' RT	Mag Nail Found
5	709364.866	1852504.891	419+63.67	33.18' LT	Mag Nail Found
10	709333.670	1851932.903	413+95.57	39.87' RT	Mag Nail Found
1500	709312.775	1851943.209	310+38.85	49.53' LT	Iron Pin Set
1501	709307.865	1852082.648	309+63.52	67.91' RT	Iron Pin Set
19237	709248.289	1852482.135	419+49.52	84.75' RT	1/2" Iron Pipe Found
19492	709293.197	1852485.666	419+49.75	39.70' RT	1/2" Iron Pipe Found
19781	709376.924	1852437.059	418+95.14	40.23' LT	1/2" Iron Pipe Found w/ cap "PS 6579"
19784	709381.842	1852368.217	418+26.12	40.09' LT	1/2" Iron Pipe Found
22354	709594.539	1852003.358	313+03.05	39.82' RT	5/8" Iron Pin Found w/ cap "Central Survey"
22662	709593.032	1852023.289	313+03.10	59.81' RT	5/8" Iron Pin Found w/ cap "Central Survey"
23052	709408.330	1852007.734	311+17.74	58.66' RT	5/8" Iron Pin Found w/ cap "Central Survey"
23073	709400.479	1852113.745	415+70.97	40.03' LT	5/8" Iron Pin Found w/ cap "Central Survey"
23375	709585.396	1852128.175	313+03.63	164.97' RT	5/8" Iron Pin Found w/ cap "Central Survey"
25084	708998.982	1851784.865	306+57.03	277.37' LT	3/4" Iron Pipe Found
25085	709003.295	1851725.081	306+56.40	337.30' LT	3/4" Iron Pipe Found
25086	709068.881	1851653.818	411+37.09	324.81' RT	5/8" Iron Pin Found w/ cap "J&J Survey"

BASIS OF BEARING

BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH (REFERENCE SOUTH 85 DEGREES 47 MINUTES 50 SECONDS EAST FOR LIVINGSTON AVENUE EAST OF JAMES ROAD) AS REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983, AS ESTABLISHED UTILIZING A GPS SURVEY REFERENCING ODOT CORS STATIONS "COLB", "OHLI" AND "OHMD".

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

MONUMENT LEGEND

- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- M.N.F. MAG NAIL FOUND

PREVIOUS PROJECT STATION EQUATION NOTE:

POINT 300 (PC STA. 307+67.91) = STA. 107+67.91 (℄ R/W JAMES ROAD PER P.B. 121, PG. 98 FRANKLIN COUNTY RECORDER'S OFFICE)
POINT 303 (PI STA. 414+05.83) = STA. 214+05.83 (℄ R/W LIVINGSTON AVENUE PER P.B. 121, PG. 98 FRANKLIN COUNTY RECORDER'S OFFICE)

- (A) STA. 307+63.20 (℄ R/W JAMES) STA. 107+68.96 (℄ CONST JAMES)
- (B) STA. 309+52.42 (℄ R/W JAMES) STA. 109+56.71 (℄ CONST JAMES)
- (C) STA. 110+66.54 (℄ CONST JAMES) STA. 214+45.72 (℄ CONST LIVINGSTON)
- (D) STA. 110+72.80 (℄ CONST JAMES) STA. 414+43.13 (℄ R/W LIVINGSTON)
- (E) STA. 310+77.39 (℄ R/W JAMES) STA. 414+25.93 (℄ R/W LIVINGSTON)
- (F) STA. 310+77.39 (℄ R/W JAMES) STA. 414+05.83 (℄ R/W LIVINGSTON)
- (G) STA. 312+45.06 (℄ R/W JAMES) STA. 112+45.35 (℄ CONST JAMES)
- (H) STA. 313+99.71 (℄ R/W JAMES) STA. 114+00.00 (℄ CONST JAMES)
- (I) STA. 411+47.53 (℄ R/W LIVINGSTON) STA. 211+47.53 (℄ CONST LIVINGSTON)
- (J) STA. 418+19.31 (℄ R/W LIVINGSTON) STA. 218+19.59 (℄ CONST LIVINGSTON)

I, [redacted], P. S. have conducted a survey of the existing conditions for the City of Columbus. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, South Zone on NAD 83 (96CORS) datum. The Project Coordinates (US Survey feet) are State Plane Ground Coordinates. Grid Coordinates can be obtained using a Project Adjustment Factor multiplier of 0.999947511. As a part of this project I have reestablished the locations of the existing property lines and centerline of existing Right of Way. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

[redacted]

[redacted]

N
0 25 50 100 HORIZONTAL SCALE IN FEET

PID NO. 101787

CALCULATED | CHECKED

CENTERLINE PLAT

JAMES RD AT LIVINGSTON AVE

2 / 13

96 / 107

UTILITIES

UTILITIES KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT ARE LISTED BELOW WITH CONTACT INFORMATION.

AEP OHIO
700 MORRISON RD
GAHANNA, OH 43230
PH: 614-883-6802
ATTN: BRENT GATES
ATTN: ROD SLONEKER

AEP TRANSMISSION
700 MORRISON RD
GAHANNA, OH 43230
PH: 614-552-1893
ATTN: MIKE CARR

COLUMBIA GAS OF OHIO
3550 JOHNNY APPLESEED CT
COLUMBUS, OH 43231
CELL: 614-370-1906
ATTN: ROB CALDWELL

SPECTRUM
3760 INTERCHANGE RD
COLUMBUS, OH 43204
PH: 614-481-5047
CELL: 614-348-2966
ATTN: SAM LUTZ

AT&T OHIO
111 N 4TH ST
COLUMBUS, OH 43215
PH: 614-223-7276
CELL: 740-532-9943
ATTN: CHARLES JOHNSON

COTA
33 N HIGH ST
8TH FLOOR, WILLIAM LHOTA BL
COLUMBUS, OH 43215

1–9 NOT USED

(10) PID: 010–105300
JAMES–LIVINGSTON RETAIL, LLC

(11) PID: 010–092271
KT COLUMBUS, LLC (22.68% INTEREST),
OG COLUMBUS, LLC (26.91% INTEREST),
RF COLUMBUS, LLC (18.00% INTEREST),
PB COLUMBUS, LLC (9.26% INTEREST),
JT COLUMBUS, LLC (6.945% INTEREST),
LT COLUMBUS, LLC (6.945% INTEREST),
DC COLUMBUS, LLC (9.26% INTEREST)

(12) PID: 010–094837, 010–094836
ROBERT G. SCHMIDT, A.K.A. ROBERT G. SCHMIDT II

(13) PID: 010–218917
DOLORES A. CORROVA, TRUSTEE OF THE DOLORES A. CORROVA TRUST (½ INTEREST) AND JAMES M. CORROVA, TRUSTEE OF THE JAMES M. CORROVA TRUST (½ INTEREST)

(13A) ROBERT COPPEL AND PAUL COPPEL
AKA ROBERT F. COPELL AND PAUL L. COPPEL

(13B) ROBERT COPPEL AND PAUL COPPEL
AKA ROBERT F. COPELL AND PAUL L. COPPEL

(14) PID: 010–024750
COLUMBUS & SOUTHERN OHIO ELECTRIC CO.

(15) PID: 010–093804
YOGEWARAN THAMYRAJAH AND
YOGESWARY YOGESWARAN

(16) PID: 010–093806
YOGESWARAN THAMBYRAJAH

(17) PID: 010–095783
COLUMBUS SOUTHERN POWER CO.

(18) PID: 010–095782
EILEEN Y. CRENSHAW

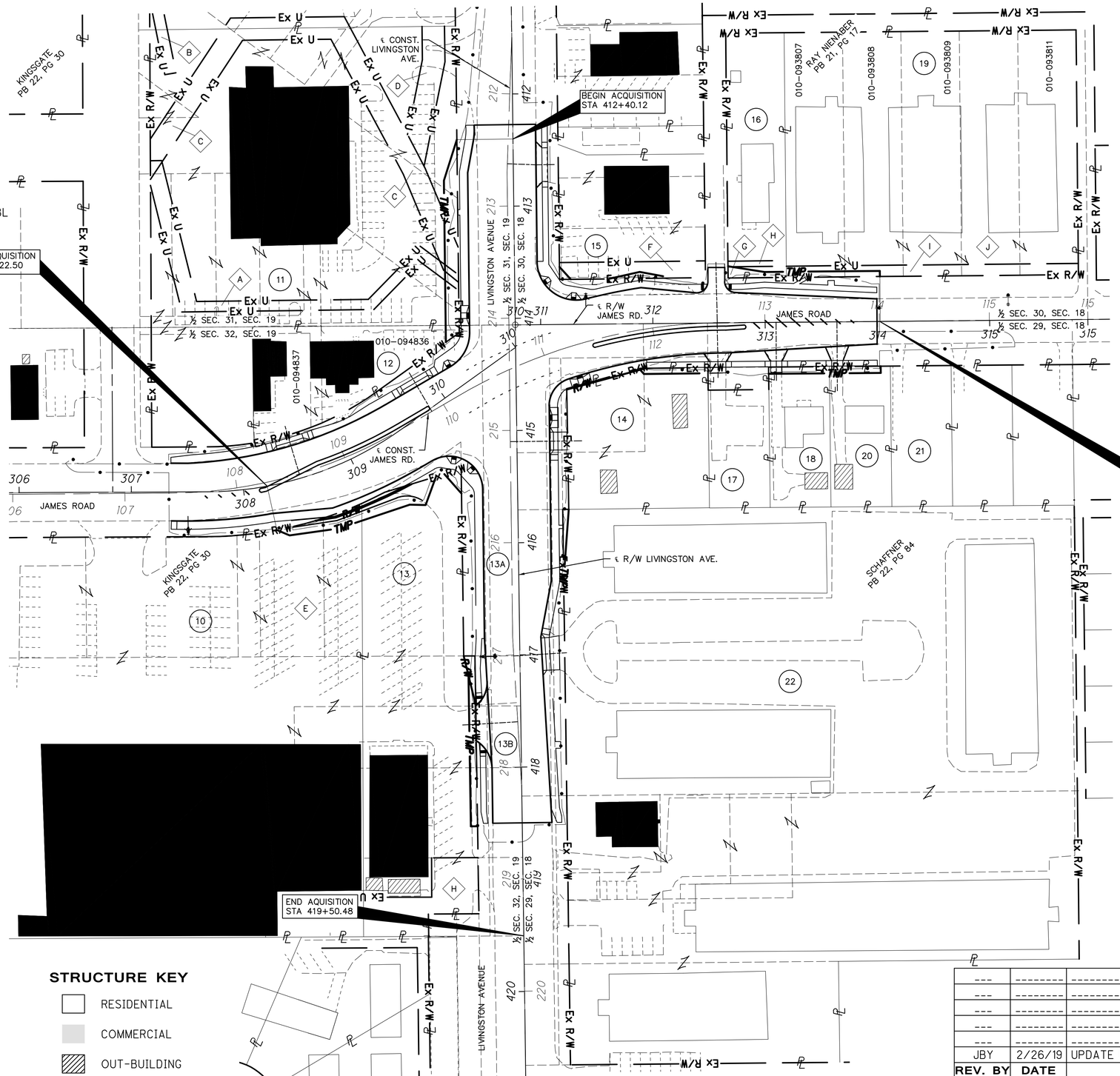
(19) PID: 010–093807, 010–093808, 010–093809, 010–093811
ROYAL JAMES PLAZA, LLC

(20) PID: 010–095781
CHARLES K. SLAUGHTER SR. AND JUSTINE SLAUGHTER

(21) PID: 010–095780
PATRICE MYERS

(22) PID: 010–088332, 010–088296, 010–088309, 010–123457, 010–123458, 010–123459, 010–077442
BEXLEY COMMONS L.P.

STATE OF OHIO
COUNTY OF FRANKLIN, CITY OF COLUMBUS
SECTION 18 & 19, T 12, R 21, REFUGEE LANDS



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

- (A) 15' UTILITY EASEMENT AMERITECH OHIO
- (B) 10' ELECTRIC EASEMENT COLUMBUS SOUTHERN POWER COMPANY
- (C) 20' SEWER EASEMENT CITY OF COLUMBUS, OHIO
- (D) 20' SEWER EASEMENT SYSTEM CAPITAL REAL PROPERTY CORP
- (E) BLANKET PARKING EASEMENT
- (F) 15 'ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC.
- (G) 10' ELECTRIC EASEMENT COLUMBUS SOUTHERN POWER COMPANY
- (H) 15' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC.
- (I) 10' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC.
- (J) BLANKET EASEMENT TIME WARNER CABLE LLC
- (H) INGRESS–EGRESS EASEMENT

3500 - E

REV. BY	DATE	DESCRIPTION
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JBY	2/26/19	UPDATE UTILITIES NOTE
DATE COMPLETED		JANUARY 3, 2019

HORIZONTAL SCALE IN FEET
0 25 50 100

PID NO. 101787

CALCULATED CHECKED

PROPERTY MAP

JAMES RD AT LIVINGSTON AVE

SUMMARY OF RIGHT-OF-WAY AND ENCROACHMENTS

PARCEL NO.	OWNER	CONSTRUCTION PLAN SHEET NO.	R/W PLAN SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	ADDRESS	REMARKS
2	NP STEAK 'N SHAKE LLC AN OHIO LIMITED LIABILITY COMPANY	390, 391	17,18	O.R. 526	1341	318-443-02-008-000	1881 POLARIS PKWY., COLUMBUS, OH 43240	1 YARD LIGHT, 12' ROCK LANDSCAPE WALL, 157 SF LANDSCAPING
4	I-71 & POLARIS PARKWAY DUCHESS, LLC AN OHIO LIMITED LIABILITY COMPANY	394, 395, 416, 417	21,22,43,44	O.R. 1398	156	318-443-02-007-000	1925 POLARIS PKWY., COLUMBUS, OH 43240	1 MONUMENT SIGN, 1 FLAGPOLE, 1 SPRINKLER HEAD, 21 SHRUBS 51' STONE LANDSCAPE WALL, 2 ICVS, 13 FLAGSTONES, 1 BOULDER 1 LIGHT POLE, 256 SF LANDSCAPING
5	N.P. LIMITED PARTNERSHIP AN OHIO LIMITED PARTNERSHIP	394, 395	21,22	D.V. 604	59	318-443-02-008-004	1955 POLARIS PKWY., COLUMBUS, OH 43240	2 LIGHT POLES, 1' STONE LANDSCAPE WALL
6	POLARIS 2004, LLC AN OHIO LIMITED LIABILITY COMPANY	394, 395, 398, 399	21,22,25,26	O.R. 551	1672	318-443-02-003-000	2001 POLARIS PKWY., COLUMBUS, OH 43240	2 6"X6" POSTS, 3 TREES, 1 MON. SIGN: 1'
13	NP SKYLINE, LLC AN OHIO LIMITED LIABILITY COMPANY	394, 395, 416, 417	21,22,43,44	O.R. 526	1337	318-443-02-022-000	8550 ORION PL., COLUMBUS, OH 43240	2 SPRINKLER HEADS
14	MCDONALD'S CORPORATION A DELAWARE CORPORATION	416, 417	43,44	D.V. 627	327	318-443-02-008-005	8555 ORION PL., COLUMBUS, OH 43240	1 SPRINKLER HEAD, 3 TREES
15	PRO INVESTMENTS LLC AN OHIO LIMITED LIABILITY COMPANY	416, 417	43,44	O.R. 388	1470	318-443-02-008-007	8500 PULSAR PL., COLUMBUS, OH 43240	1 TREE
16	POLARIS BFS LLC A LIMITED LIABILITY COMPANY	416-419	43-46	O.R. 819	2732	318-443-02-024-000	8510 ORION PL., COLUMBUS, OH 43240	1 MONUMENT SIGN, 2 SPRINKLER HEADS, 5 TREES, 32' HEDGEROW, 143 SF LANDSCAPING
18	DONALD R. KENNEY, TRUSTEE	418, 419	45,46	O.R. 26	357	318-443-01-032-000	WORTHINGTON RD., COLUMBUS, OH 43240	2 TREES
19	OFFICE POINTE LLC AN OHIO LIMITED LIABILITY COMPANY	418-421, 424, 425	45-48,51,52	O.R. 583	PG. 2251	318-443-01-008-002	470 OLDE WORTHINGTON RD., WESTERVILLE, OH 43082	1 TREE
100	KENNEY AIRPORT HOTEL CORPORATION, AN OHIO CORPORATION (41.30%) KENNEY AIRPORT HOTEL II CORPORATION, AN OHIO CORPORATION (58.70%)	414, 415	41,42	O.R. 645	1422	318-443-02-020-000	1900 POLARIS PKWY., COLUMBUS, OH 43240	1 ROCK, 1 SPRINKLER HEAD, ROCK
102	OHIO FARMERS INSURANCE COMPANY	396, 397, 400, 401 414, 415	23,24,27,28, 41,42	D.V. 572	2330	318-443-02-002-000	2000 POLARIS PKWY., COLUMBUS, OH 43240	2 SPRINKLER HEADS, 5 TREES, 6 SHRUBS, WOOD POST, PULL BOX
103	BADRIVISHAL, LLC **AN OHIO LIMITED LIABILITY COMPANY**	400, 401, 404, 405	27,28,31,32	O.R. 736	110	318-443-02-002-001	2040 POLARIS PKWY., COLUMBUS, OH 43240	2 SIGNS

REV. BY	DATE	DESCRIPTION

FIELD REVIEW BY: NJS DATE: 11/04/2016

OWNERSHIP VERIFIED BY: NAU DATE: 11/04/2016

DATE COMPLETED: 11/04/2016

3221-E

FEDERAL PROJECT NO. E130 (728)

PID NO. 95549

STATE JOB NO. 467324

R/W DESIGNER AWN

R/W REVIEWER MDW

ARTERIAL STREET REHABILITATION – POLARIS PARKWAY

TOTAL NUMBER OF :
32 OWNERSHIPS 1 TOTAL TAKES
69 PARCELS 11 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA – TOTAL PRO – NET TAKE

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
1	COLUMBUS RESTAURANT CONCEPTS INC.	13,14,	O.R. 580	444	318-443-02-008-003	1.961								CITY	NO TAKE		
	AN OHIO CORPORATION	17,18															
2-S	NP STEAK 'N SHAKE LLC	17,18	O.R. 526	1341	318-443-02-008-000	1.107	0.000	0.013	0.000	0.013	S (1)		1.094		1 MON. SIGN, 1 YARD LIGHT, 6 SHRUBS,		
	AN OHIO LIMITED LIABILITY COMPANY														336 SF LANDSCAPING (157 SF*)		
															43' L/S WALL (12' *), EASEMENT OVERLAP = 0.013 AC.		
3-WD	PULSAR OWNERS ASSOCIATION INC.	47,48	D.V. 593	611	318-443-02-008-001	3.751	0.000	0.007	0.000	0.007	NO		3.744		EASEMENT OVERLAP = 0.007 AC.		
	AN OHIO NON-PROFIT CORPORATION																
3-T1	"	43,44	"	"	"			0.041	0.000	0.041	NO				COMPLETE GRADING AND DRIVEWAY WORK		
															5 SHRUB, 22' L/S WALL, 1 YARD LIGHT		
															EASEMENT OVERLAP = 0.041 AC.		
3-T2	"	47,48	"	"	"			0.025	0.000	0.025	NO				COMPLETE GRADING AND DRIVEWAY WORK		
					TOTAL:			0.066	0.000	0.066					1 SPK. HEAD, EASEMENT OVERLAP = 0.025 AC.		
4-T	I-71 & POLARIS PARKWAY DUCHESS, LLC	21,22,	O.R. 1398	156	318-443-02-007-000	1.422	0.000	0.104	0.000	0.104	NO				COMPLETE GRADING AND DRIVEWAY WORK		
	AN OHIO LIMITED LIABILITY COMPANY	43,44													8 SHRUBS, 2 TREES, 18' L/S WALL, 2 ROCKS		
															102 SF LANDSCAPING, ENCROACHMENT SIGN		
															EASEMENT OVERLAP = 0.104 AC.		
5-WD	N.P. LIMITED PARTNERSHIP	21,22	D.V. 604	59	318-443-02-008-004	1.477	0.000	0.191	0.000	0.191	NO		1.286		76' L/S WALL (1'*), 1 ICV, 2 SPK. HEAD,		
	AN OHIO LIMITED PARTNERSHIP														1 BOULDER, 5 TREES, 27 SHRUBS, 1 ROCK,		
															EASEMENT OVERLAP = 0.191 AC.		
5-S1	"	21,22	"	"	"			0.014	0.000	0.014	NO						
5-S2	"	21,22	"	"	"			0.017	0.000	0.017	NO				EASEMENT OVERLAP = 0.017 AC.		
					TOTAL:			0.031	0.000	0.031							
5-T	"	21,22	"	"	"			0.186	0.000	0.186	NO				COMPLETE GRADING AND DRIVEWAY WORK		
															1 SPK. HEAD, 10 TREES, 45 SHRUBS, 26' L/S WALL,		
															1 BOULDER, EASEMENT OVERLAP = 0.139 AC.		
6-U	POLARIS 2004, LLC	25,26	O.R. 551	1672	318-443-02-003-000	8.920	0.000	0.038	0.000	0.038	NO				UTILITY EASEMENT FOR PROPOSED WATER LINE		
	AN OHIO LIMITED LIABILITY COMPANY		"	"	"										EASEMENT OVERLAP = 0.038 AC.		
6-T	"	21,22	"	"	"			0.140	0.000	0.140	S (1)				COMPLETE GRADING AND DRIVEWAY WORK		
		25,26	"	"	"										1 MON. SIGN: 8' (1' *), 2 TREES		
															EASEMENT OVERLAP = 0.140 AC.		
7-WD	POLARIS NEIGHBORHOOD CENTER II, LLC	25,26,	O.R. 530	2361	318-442-02-055-001	2.640	0.000	0.184	0.000	0.184	S (1)		2.456		EASEMENT OVERLAP = 0.179 AC., 1 MON. SIGN,		
	AN OHIO LIMITED LIABILITY COMPANY	29,30													5 TREES		
7-T		25,26,	"	"	"			0.147	0.000	0.147	NO				COMPLETE GRADING WORK		
		29,30													EASEMENT OVERLAP = 0.147 AC.		
8-WD	NP HUNTINGTON, LLC	29,30	O.R. 526	1348	318-442-02-027-004	1.236	0.000	0.104	0.000	0.104	NO		1.132		5 TREES, EASEMENT OVERLAP = 0.104 AC.		
	AN OHIO LIMITED LIABILITY COMPANY																
8-T		29,30	"	"	"			0.090	0.000	0.090	NO				COMPLETE GRADING AND DRIVEWAY WORK, 1 ICV		
															EASEMENT OVERLAP = 0.090 AC.		
9-WD	POLARIS RC, LLC	29,30,	O.R. 833	302	318-442-02-055-000	1.085	0.000	0.131	0.000	0.131	NO		0.954		3 TREES, 1 SPK. HEAD		
	AN OHIO LIMITED LIABILITY COMPANY	33,34													EASEMENT OVERLAP = 0.131 AC.		
9-S	"	29,30,	"	"	"			0.030	0.000	0.030	NO				EASEMENT OVERLAP = 0.028 AC.		
		33,34															
9-T	"	29,30,	"	"	"			0.084	0.000	0.084	S (1)			CITY	COMPLETE GRADING AND DRIVEWAY WORK		
		33,34													1 MON. SIGN, 4 SHRUBS, 2 YARD LIGHTS		
															EASEMENT OVERLAP = 0.084 AC.		

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF
THE CITY OF COLUMBUS, OHIO
UNLESS OTHERWISE SHOWN.
ALL "V" PARCELS ACQUIRED IN THE NAME OF CITY OF WESTERVILLE, AN OHIO MUNICIPAL CORPORATION

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

* SEE SHEET 12 FOR SUMMARY OF ROW ENCROACHMENTS

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

PARCEL IDENTIFIER LEGEND
WD = WARRANTY DEED
WDV = WARRANTY DEED IN THE NAME OF CITY OR LOCAL PUBLIC AGENCY
T = TEMPORARY EASEMENT
S = SEWER EASEMENT
CH = CHANNEL EASEMENT
U = UTILITY EASEMENT

REV. BY	DATE	DESCRIPTION
	01/27/17	REMOVED OVERLAP EASEMENT FOR 5-S1
	01/27/17	UPDATED SHEET REFERENCES
	01/31/17	UPDATED OVERLAP AREAS
	09/13/17	REVISED TOTAL NUMBER OF COUNTS
	06/14/18	CHANGED 2-WD TO 2-S

DATE: 11/04/2016
OWNERSHIP VERIFIED BY: DATE: 11/04/2016

3221-E

FEDERAL PROJECT NO. E130 (728)
PID NO. 95549
STATE JOB NO.
R/W DESIGNER
R/W REVIEWER

SUMMARY (PARCELS 1-9) OF ADDITIONAL RIGHT OF WAY

ARTERIAL STREET REHABILITATION – POLARIS PARKWAY

STATE OF OHIO

COUNTY OF FRANKLIN, CITY OF COLUMBUS

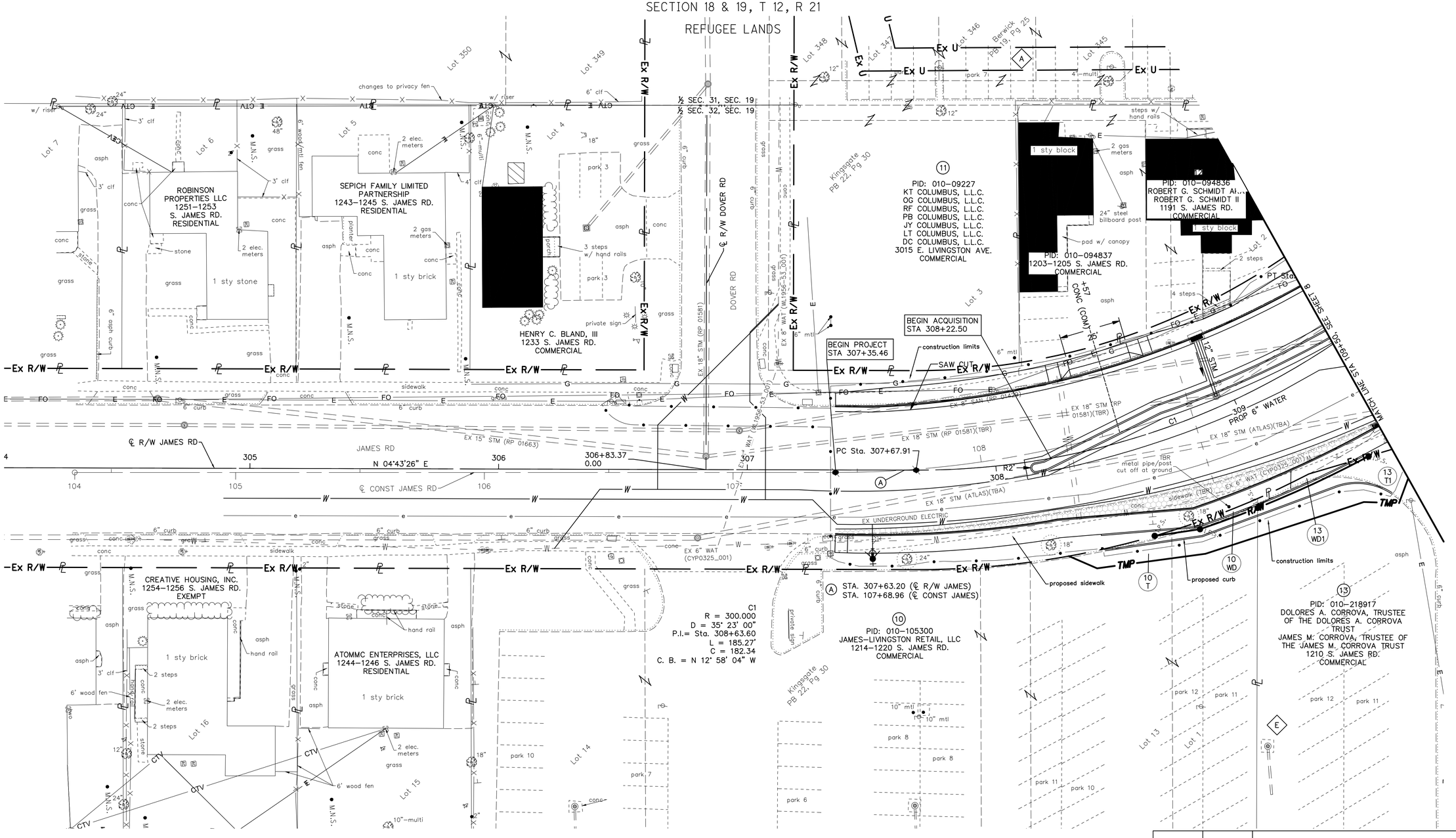
SECTION 18 & 19, T 12, R 21

REFUGEE LANDS

LEGEND

RAILROAD SPIKE SET

I.P.S. 5/8"X30" IRON PIN SET W/ CAP "ASI 8438"



REV. BY	DATE	DESCRIPTION
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DATE COMPLETED JANUARY 3, 2019

3500 - E

RIGHT OF WAY TOPO SHEET
STA. 105+00 TO STA. 109+50

JAMES RD AT LIVINGSTON AVE

PID NO. 101787

CALCULATED

CHECKED

HORIZONTAL SCALE IN FEET
0 10 20 40

6 / 13

125 / 132

STATE OF OHIO
COUNTY OF FRANKLIN, CITY OF COLUMBUS
SECTION 18 & 19, T 12, R 21
REFUGEE LANDS

LEGEND
- RAILROAD SPIKE SET
- I.P.S. ⅝"X30" IRON PIN SET W/ CAP "ASI 8438"

MATCH LINE STA 213+00, SEE SHEET 10

MATCH LINE STA 109+50, SEE SHEET 6

MATCH LINE STA 216+50, SEE SHEET 12

- A 15' UTILITY EASEMENT AMERITECH OHIO I.N. 200104270090572 I.N. 200210020246733
- C 20' SEWER EASEMENT CITY OF COLUMBUS, OHIO I.N. 200006120115725
- F 15 'ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201204230055778
- G 10' ELECTRIC EASEMENT COLUMBUS SOUTHERN POWER COMPANY I.N. 201108040097057
- H 15' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201204230055775
- I 10' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201205140067077
- J BLANKET EASEMENT TIME WARNER CABLE LLC I.N. 200806250097941

(11) PID: 010-092271
KT COLUMBUS, L.L.C.
OG COLUMBUS, L.L.C.
RF COLUMBUS, L.L.C.
PB COLUMBUS, L.L.C.
JY COLUMBUS, L.L.C.
LT COLUMBUS, L.L.C.
DC COLUMBUS, L.L.C.
3015 E. LIVINGSTON AVE.
COMMERCIAL

(12) PID: 010-094836
ROBERT G. SCHMIDT AKA
ROBERT G. SCHMIDT II
1191 S. JAMES RD.
COMMERCIAL

(13) PID: 010-218917
DOLORES A. CORROVA, TRUSTEE OF
THE DOLORES A. CORROVA TRUST
JAMES M. CORROVA, TRUSTEE OF THE
JAMES M. CORROVA TRUST
1210 S. JAMES RD
COMMERCIAL

(13A) ROBERT COPPEL AND PAUL COPPEL
AKA ROBERT F. COPELL AND PAUL L. COPPEL

(14) PID: 010-024750
COLUMBUS AND SOUTHERN OHIO
ELECTRIC COMPANY
3034 E. LIVINGSTON AVE.
COMMERCIAL

(15) PID: 010-093804
YOGEWARAN THAMYRAJAH
AND
YOGESWARY YOGESWARAN
3020 E. LIVINGSTON AVE.
COMMERCIAL

(16) PID: 010-093806
YOGESWARAN
THAMBYRAJAH
1147-1153 S. JAMES RD.
COMMERCIAL

(17) PID: 010-095783
COLUMBUS SOUTHERN POWER
COMPANY
1152 S. JAMES RD.
COMMERCIAL

(18) PID: 010-095782
EILEEN Y. CRENSHAW
1146 S. JAMES RD.
RESIDENTIAL

(19) PID: 010-093809
ROYAL JAMES
PLAZA LLC
RESIDENTIAL

(20) PID: 010-095781
CHARLES K. SLAUGHTER, SR.
AND JUSTINE SLAUGHTER
1138 S. JAMES RD.
RESIDENTIAL

(21) PID: 010-095780
PATRICE MYERS
1130 S. JAMES RD.
RESIDENTIAL

(22) PID: 010-088332
BEXLEY COMMONS L.P.
3050 E. LIVINGSTON AVE.
COMMERCIAL

PID: 010-093807
RESIDENTIAL

PID: 010-093808
RESIDENTIAL

C1
R = 300.000
D = 35° 23' 00"
P.I.= Sta. 308+63.60
Dc = 19° 05' 55"
L = 185.27'
T = 95.69'
E = 14.89
C = 182.34
C. B. = N 12° 58' 04" W

(B) STA. 309+52.42 (℄ R/W JAMES)
STA. 109+56.71 (℄ CONST JAMES)

(C) STA. 110+66.54 (℄ CONT JAMES)
STA. 214+45.72 (℄ CONST LIVINGSTON)

(D) STA. 110+72.80 (℄ CONST JAMES)
STA. 414+43.13 (℄ R/W LIVINGSTON)

(E) STA. 310+77.39 (℄ R/W JAMES)
STA. 414+25.93 (℄ R/W LIVINGSTON)

(F) STA. 310+77.39 (℄ R/W JAMES)
PT STA. 414+05.83 (℄ R/W LIVINGSTON)

(G) STA. 312+45.06 (℄ R/W JAMES)
STA. 112+45.35 (℄ CONST JAMES)

(H) STA. 313+99.71 (℄ R/W JAMES)
STA. 114+00.00 (℄ CONST JAMES)

REV. BY	DATE	DESCRIPTION
	3/14/19	PARCEL 12: UPDATE NO. PARKING SPACES
	2/26/19	UPDATE DUCT BANK LABEL
	2/26/19	UPDATE DND & * LABELS
	1/14/19	PARCEL 14-WD: ADD I.P.S.
	1/14/19	PARCEL 12: UPDATE NO. PARKING SPACES

DATE COMPLETED JANUARY 3, 2019

3500 - E

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

PID NO. 101787

CALCULATED | CHECKED

RIGHT OF WAY TOPO SHEET
STA. 109+50 TO STA. 114+00
JAMES RD AT LIVINGSTON AVE

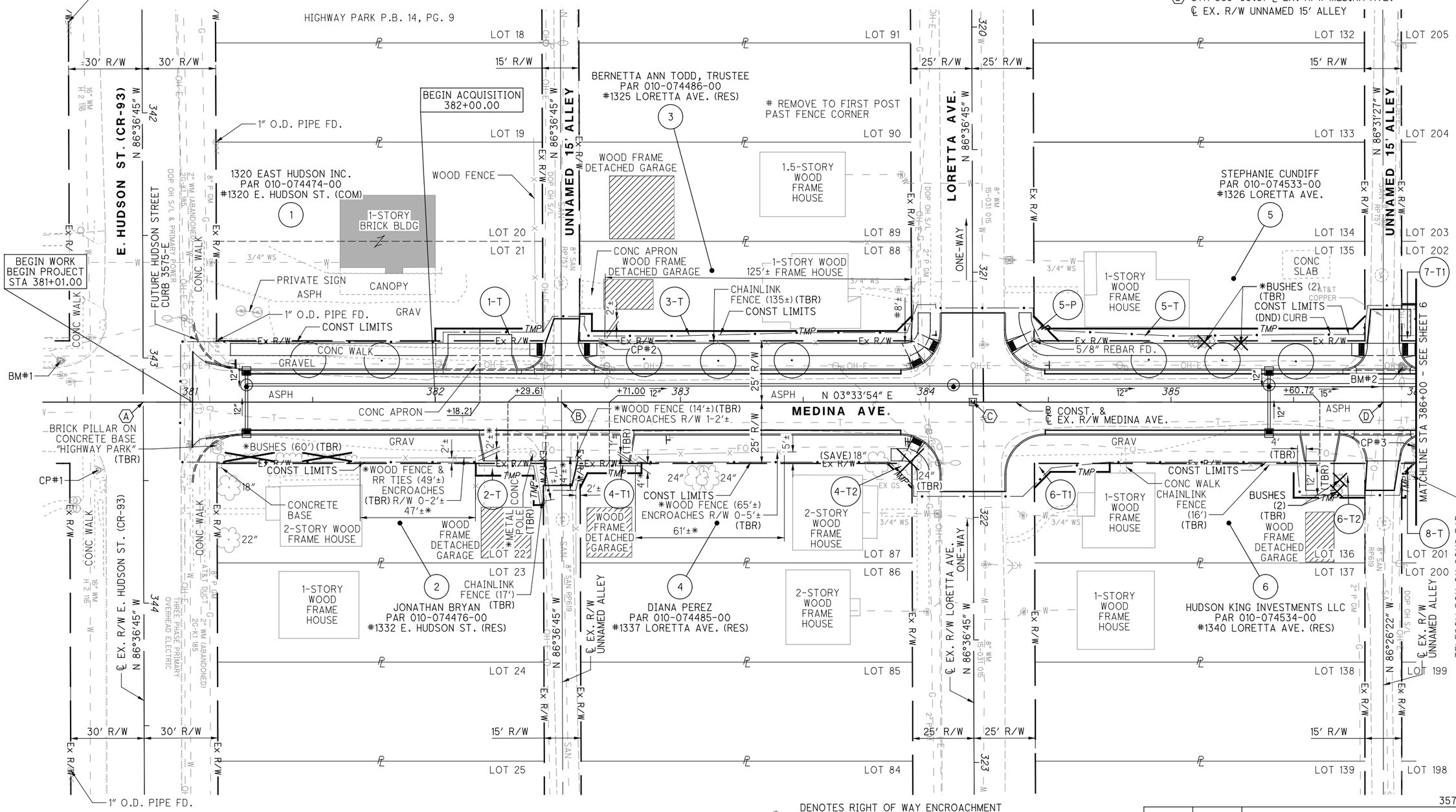
8 / 13

127 / 132

FRANKLIN COUNTY, OHIO
FOURTH QUARTER, TOWN 1 E, RANGE 18 W
UNITED STATES MILITARY DISTRICT
CITY OF COLUMBUS

CENTERLINE EX. R/W INTERSECTIONS:

(A) STA 380+80.87 ℄ EX. R/W MEDINA AVE.= STA 343+18.00 ℄ EX. R/W E. HUDSON ST. (CR-93)
(B) STA 382+51.47 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY
(C) STA 384+19.27 ℄ EX. R/W MEDINA AVE.= STA 321+53.00 ℄ EX. R/W LORETTA AVE.
(D) STA 385+86.61 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY



* DENOTES RIGHT OF WAY ENCROACHMENT (SEE R/W TOPO SHEETS FOR DISPOSITION)

X DENOTES REMOVAL ITEMS FOR TREES, SHRUBS, OR STRUCTURES (SEE R/W TOPO SHEETS FOR LOCATION AND DESCRIPTION)

⊙ DENOTES PROPOSED 2" CALIPER TREE. (SEE LANDSCAPING PLANS FOR LOCATION AND DESCRIPTION)

SEE SHEET 1 FOR PARCEL LEGEND, DISPOSITION LEGEND, STRUCTURE KEY, MONUMENT LEGEND, UTILITY COMPANIES
SEE SHEET 7 FOR RIGHT OF WAY BOUNDARY STA 381+00 TO STA 386+00

REV. BY	DATE	DESCRIPTION

DATE COMPLETED - FINAL R/W 5/1/2019

3570-E

HORIZONTAL SCALE IN FEET 0 10 20 40

R/W DESIGNER WLC
R/W REVIEWER RMH

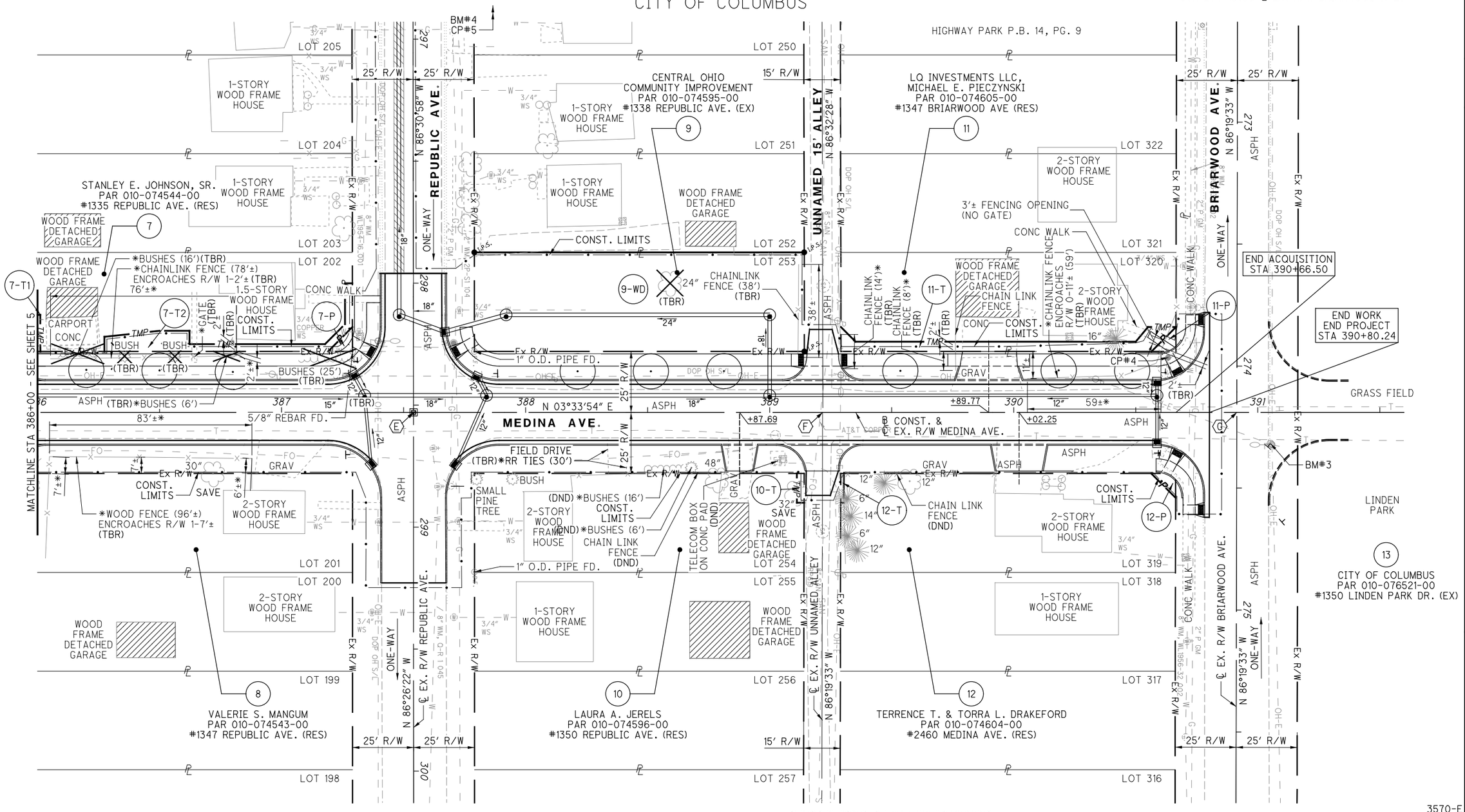
RIGHT OF WAY TOPO-MEDINA AVENUE STA 381+00 TO STA 386+00

MEDINA AVENUE

J:\119444_Cols GE 2018\5.0 Design (Work) Phase\task I- Medina Avenue\531012\Design\RW\Sheets\531012_RT001.dgn Sheet 2019-06-19 3:31:08 PM william.croxton

FRANKLIN COUNTY, OHIO
FOURTH QUARTER, TOWN 1 E, RANGE 18 W
UNITED STATES MILITARY DISTRICT
CITY OF COLUMBUS

CENTERLINE EX. R/W INTERSECTIONS:
(E) STA 387+54.04 ℄ EX. R/W MEDINA AVE.= STA 298+53.00 ℄ EX. R/W REPUBLIC AVE.
(F) STA 389+21.68 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY
(G) STA 390+91.43 ℄ EX. R/W MEDINA AVE.= STA 274+19.00 ℄ EX. R/W BRIARWOOD AVE.



* DENOTES RIGHT OF WAY ENCROACHMENT (SEE R/W TOPO SHEETS FOR DISPOSITION)

X DENOTES REMOVAL ITEMS FOR TREES, SHRUBS, OR STRUCTURES (SEE R/W TOPO SHEETS FOR LOCATION AND DESCRIPTION)

· DENOTES PROPOSED 2" CALIPER TREE. (SEE LANDSCAPING PLANS FOR LOCATION AND DESCRIPTION)

SEE SHEET 1 FOR PARCEL LEGEND, DISPOSITION LEGEND, STRUCTURE KEY, MONUMENT LEGEND, UTILITY COMPANIES
SEE SHEET 8 FOR RIGHT OF WAY BOUNDARY STA 381+00 TO STA 386+00

3570-E

REV. BY	DATE	DESCRIPTION

DATE COMPLETED - FINAL R/W 5/1/2019

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER WLC
R/W REVIEWER RMH

RIGHT OF WAY TOPO-MEDINA AVENUE
STA 386+00 TO STA 391+50

MEDINA AVENUE

6 / 9

J:\19444_Cols GE 2018\5.0 Design (Work) Phase\task 1- Medina Avenue\53102\Design\RW\Sheets\53102_RT002.dgn Sheet 2019-06-19 3:32:03 PM william.croxton

STATE OF OHIO

COUNTY OF FRANKLIN, CITY OF COLUMBUS

SECTION 18 & 19, T 12, R 21

REFUGEE LANDS

LEGEND

RAILROAD SPIKE SET

I.P.S. 5/8"X30" IRON PIN SET W/ CAP "ASI 8438"

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 101787

CALCULATED

CHECKED

RIGHT OF WAY BOUNDARY SHEET

JAMES RD AT LIVINGSTON AVE

STA. 105+00 TO STA. 109+50

7 / 13

126 / 132

Lot 7 | Lot 6 | Lot 5 | Lot 4 | Lot 350 | Lot 349 | Lot 348 | Lot 347 | Lot 346 | Lot 345

ISABELLA ROBINSON AND CRAIG A. SIMS
1251–1253 S. JAMES RD.

SEPICH FAMILY LIMITED PARTNERSHIP
1243–1245 S. JAMES RD.

HENRY C. BLAND, III
1233 S. JAMES RD.

½ SEC. 31, SEC. 19
½ SEC. 32, SEC. 19

DOVER RD

℄ R/W DOVER RD

50' R/W
PB 22, Pg 30

Ex R/W

Ex U

Derwick PB 14, Pg 25

10' alley vacated

6' alley vacated

20' alley vacated

City of Columbus Ordinance No. 894–55

15' UTILITY EASEMENT
AMERITECH OHIO
I.N. 200104270090572
I.N. 200210020246733

PID: 010–094837
1203–1205 S. JAMES RD.

Kingsgate PB 22, Pg 30

City of Columbus DB 2042, Pg 477

(11)
PID: 010–092271
KT COLUMBUS, L.L.C.
OG COLUMBUS, L.L.C.
RF COLUMBUS, L.L.C.
PB COLUMBUS, L.L.C.
JY COLUMBUS, L.L.C.
LT COLUMBUS, L.L.C.
DC COLUMBUS, L.L.C.
3015 E. LIVINGSTON AVE.
COMMERCIAL

Lot 3

C1
C. B. = N 10° 25' 02" W
C = 211.69
L = 214.12'
R = 409.260
D = 29° 58' 37"
P.I.= Sta. 108+50.78

N 04°43'26" E
49.54'

60'

(12)
PID: 010–094836
ROBERT G. SCHMIDT AKA
ROBERT G. SCHMIDT II
1191 S. JAMES RD.

Lot 2

MATCH LINE STA 109+50, SEE SHEET 9

Curve Data
Δ = 35°23'00"
R = 260.00'
L = 160.56'
C = 158.03'
CBRG = N12°58'04"W

Curve Data
Δ = 3°50'32"
R = 340.00'
L = 22.80'
C = 22.80'
CBRG = N21°01'34"W

80' R/W
PB 22, Pg 30

Curve Data
Δ = 7°25'41"
R = 340.00'
L = 44.08'
C = 44.05'
CBRG = N15°23'27"W

309+34.16
45.68 R
N 11°53'31" W
25.06'

City of Columbus
0.017 Ac.
DB 2608, Pg 572

BEGIN PROJECT
STA 307+35.46

306+83.37
0.00

BEGIN ACQUISITION
STA 308+22.50

PC Sta. 307+67.91
POC 10–WD, 13–WD1

80'

℄ CONST JAMES RD

℄ R/W JAMES RD

4

305 | 306 | 307

104 | 105 | 106 | 107

N 04°43'26" E

N 04°34'16" E

84.54'

JAMES RD

80' R/W
PB 22, Pg 30

PC Sta. 107+41.19

108 | 308

C3 308+53.78
0.00

308+92.68
0.00

308+92.68
40.00 R

309+12.80
40.00 R

13 WD1

S 85°14'39" E
3.79'

10 WD

N 78°19'24" E
40.00'

308+53.78
40.00 R
POB 10–WD

308+69.73
43.01 R

Curve Data
Δ = 5°58'32"
R = 340.00'
L = 35.46'
C = 35.44'
CBRG = N8°41'20"W

308+22.50
40.00 R

10 T

POB 13–WD1
N 70°53'42" E

309+24.79
60.52 R

S 06°24'08" W
14.19'

309+34.63
68.16 R

S 13°32'38" E
44.97'

N 65°10'56" W
26.87'

Curve Data
Δ = 6°10'48"
R = 456.26'
L = 49.21'
C = 49.19'
CBRG = S20°21'46"E

S 85°14'39" E
11.63'

22.03'

308+31.39
47.00 R

S 03°01'40" E
43.95'

S 03°48'03" E
18.40'

308+68.72
53.08 R

Curve Data
Δ = 3°06'18"
R = 456.26'
L = 24.73'
C = 24.72'
CBRG = S15°43'14"E

308+91.34
43.47 R

308+87.40
54.15 R

S 27°57'53" W
12.36'

Ex R/W

CREATIVE HOUSING, INC.
1254–1256 S. JAMES RD.

ATOMMC ENTERPRISES, LLC
1244–1246 S. JAMES RD.

Lot 16 | Lot 15 | Lot 14

Kingsgate PB 22, Pg 30

Lot 13 | Lot 1

(A) STA. 307+63.20 (℄ R/W JAMES)
STA. 107+68.96 (℄ CONST JAMES)

C2
R = 300.000
D = 35° 23' 00"
P.I.= Sta. 308+63.60
L = 185.27
C = 182.34
C. B. = N 12° 58' 04" W

Curve Data
C3 (10–WD Commencement)
Δ = 16°24'02"
R = 300.00'
L = 85.87'
C = 85.58'
CBRG = N3°28'35"W

Curve Data
C4 (13–WD1 Commencement)
Δ = 23°34'24"
R = 300.00'
L = 123.43'
C = 122.56'
CBRG = N7°03'46"W

(10)
PID: 010–105300
JAMES–LIVINGSTON RETAIL, LLC
1214–1220 S. JAMES RD.

BLANKET PARKING EASEMENT
O.R. 16274, PG. F17

(13)
PID: 010–218917
DOLORES A. CORROVA, TRUSTEE
OF THE DOLORES A. CORROVA
TRUST
JAMES M. CORROVA, TRUSTEE OF
THE JAMES M. CORROVA TRUST
1210 S. JAMES RD.

REV. BY	DATE	DESCRIPTION
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DATE COMPLETED JANUARY 3, 2019

3500 - E

STATE OF OHIO

COUNTY OF FRANKLIN, CITY OF COLUMBUS

SECTION 18 & 19, T 12, R 21

REFUGEE LANDS

LEGEND

RAILROAD SPIKE SET

I.P.S. 5/8"X30" IRON PIN SET W/ CAP "ASI 8438"

MATCH LINE STA 213+00, SEE SHEET 11

COC Ord. No. 894-55

Berwick Blvd. (vacated)

Berwick PB 19, Pg 25

Lot 344

20' SEWER EASEMENT CITY OF COLUMBUS, OHIO I.N. 200006120115725

(11) PID: 010-092271
KT COLUMBUS, L.L.C.
OG COLUMBUS, L.L.C.
RF COLUMBUS, L.L.C.
PB COLUMBUS, L.L.C.
JY COLUMBUS, L.L.C.
LT COLUMBUS, L.L.C.
DC COLUMBUS, L.L.C.
3015 E. LIVINGSTON AVE.

15' UTILITY EASEMENT AMERITECH OHIO I.N. 200104270090572 I.N. 200210020246733

(12) PID: 010-094836
ROBERT G. SCHMIDT AKA ROBERT G. SCHMIDT II
1191 S. JAMES RD.

Kingsgate PB 22, Pg 30

Lot 2

80' R/W PB 22, Pg 30

JAMES RD

℄ R/W JAMES RD

℄ CONST JAMES RD

℄ CONST & R/W JAMES RD

℄ CONST LIVINGSTON AVE

℄ R/W LIVINGSTON AVE

LIVINGSTON AVE

℄ CONST LIVINGSTON AVE

40' R/W PB 21, Pg 17

20' Alley PB 21, Pg 17

Ex R/W

Ex U

TMP

½ SEC. 31, SEC. 19
½ SEC. 32, SEC. 19

½ SEC. 30, SEC. 18
½ SEC. 29, SEC. 18

½ SEC. 31, SEC. 19
½ SEC. 30, SEC. 18

MATCH LINE STA 109+50, SEE SHEET 7

MATCH LINE STA 216+50, SEE SHEET 13

(15) PID: 010-093804
YOGEWARAN THAMYRAJAH AND YOGESWARY YOGESWARAN
3020 E. LIVINGSTON AVE.

(16) PID: 010-093806
YOGESWARAN THAMBYRAJAH
1147-1153 S. JAMES RD.

PID: 010-093807

(19) PID: 010-093808
ROYAL JAMES PLAZA, LLC
I.N. 200502220032203
1113 S. JAMES RD.

PID: 010-093809

Roy Nienaber PB 21, Pg 17

Lot 4

Lot 5

Lot 6

Lot 7

Lot 8

Lot 9

BLANKET EASEMENT TIME WARNER CABLE LLC I.N. 200806250097941

10' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201205140067077

15' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201202423055778

15' ELECTRIC EASEMENT AEP OHIO TRANSMISSION COMPANY, INC. I.N. 201202423005577

10' ELECTRIC EASEMENT COLUMBUS SOUTHERN POWER COMPANY I.N. 201108040097057

END ACQUISITION STA 314+02.54

END PROJECT STA 313+99.71

(13) PID: 010-218917
DOLORES A. CORROVA, TRUSTEE OF THE DOLORES A. CORROVA TRUST
JAMES M. CORROVA, TRUSTEE OF THE JAMES M. CORROVA TRUST
1210 S. JAMES RD
COMMERCIAL

City of Columbus 0.017 Ac. DB 2608, Pg 572

City of Columbus 0.211 Ac. I.N. 201003120029585

City of Columbus 1,349 Sq. Ft. DB 2327, Pg 187

City of Columbus 1,548 Sq. Ft. DB 2625, Pg 499

City of Columbus 0.010 Ac. I.N. 201003120029585

City of Columbus 0.025 Ac. I.N. 201003120029585

City of Columbus 0.012 Ac. I.N. 201003120029585

City of Columbus 0.176 Ac. I.N. 199906230159270

City of Columbus 2,551 Sq. ft. DB 2334, Pg 18

Fee Owners: Robert Coppel & Paul Coppel DB 1082, Pg 131 DB 616, Pg 249 & 215

30' Ease. R/W

(14) PID: 010-024750
COLUMBUS AND SOUTHERN OHIO ELECTRIC COMPANY
3034 E. LIVINGSTON AVE.
COMMERCIAL

(17) PID: 010-095783
COLUMBUS SOUTHERN POWER COMPANY
1152 S. JAMES RD.

(18) PID: 010-095782
EILEEN Y. CRENSHAW
1146 S. JAMES RD.

(20) PID: 010-095781
CHARLES K. SLAUGHTER, SR. AND JUSTINE SLAUGHTER
1138 S. JAMES RD.

(21) PID: 010-095780
PATRICE MYERS
1130 S. JAMES RD.

(22) PID: 010-088332
BERWICK TAMARACK LP
I.N. 201410020130369
4.741 AC.
3050 E. LIVINGSTON AVE.

Schaffner Addition PB 22, Pg 84

C1
P.I.= Sta. 108+50.78
D = 29° 58' 37"
R = 409.260
L = 214.12'
C = 211.69
C. B. = N 10° 25' 02" W

C2
P.I.= Sta. 308+63.60
D = 35° 23' 00"
R = 300.000
L = 185.27
C = 182.34
C. B. = N 12° 58' 04" W

C3
P.I.= Sta. 111+42.82
D = 30° 00' 40"
R = 477.46
L = 250.09'
C = 247.24
C. B. = N 10° 24' 01" W

(B) STA. 309+52.42 (℄ R/W JAMES)
STA. 109+56.71 (℄ CONST JAMES)

(C) STA. 110+66.54 (℄ CONT JAMES)
STA. 214+45.72 (℄ CONST LIVINGSTON)

(D) STA. 110+72.80 (℄ CONST JAMES)
STA. 414+43.13 (℄ R/W LIVINGSTON)

(E) STA. 310+77.39 (℄ R/W JAMES)
STA. 414+25.93 (℄ R/W LIVINGSTON)

(F) STA. 310+77.39 (℄ R/W JAMES)
PT. STA. 414+05.83 (℄ R/W LIVINGSTON)
POB 13A-WD
POC 13B-WD
POC 13-WD3

(G) STA. 312+45.06 (℄ R/W JAMES)
STA. 112+45.35 (℄ CONST JAMES)

(H) STA. 313+99.71 (℄ R/W JAMES)
STA. 114+00.00 (℄ CONST JAMES)

REV. BY	DATE	DESCRIPTION

[redacted]	1/14/19	PARCEL 14-WD: ADD I.P.S.
	1/14/19	ADD BEARINGS TO R/W
	1/14/19	PARCEL 22: UPDATE OWNER

DATE COMPLETED JANUARY 3, 2019

3500 - E

HORIZONTAL SCALE IN FEET

PID NO. 101787

CALCULATED

CHECKED

RIGHT OF WAY BOUNDARY SHEET

JAMES RD AT LIVINGSTON AVE STA. 109+50 TO STA. 114+00

9 / 13

128 / 132

FRANKLIN COUNTY, OHIO
FOURTH QUARTER, TOWN 1 E, RANGE 18 W
UNITED STATES MILITARY DISTRICT
CITY OF COLUMBUS

CENTERLINE EX. R/W INTERSECTIONS:
- (A) STA 380+80.87 ℄ EX. R/W MEDINA AVE.= STA 343+18.00 ℄ EX. R/W E. HUDSON ST. (CR-93)
- (B) STA 382+51.47 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY
- (C) STA 384+19.27 ℄ EX. R/W MEDINA AVE.= STA 321+53.00 ℄ EX. R/W LORETTA AVE.
- (D) STA 385+86.61 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY

PINCH TOP PIPE FD.

HIGHWAY PARK P.B. 14, PG. 9

E. HUDSON ST. (CR-93) — N 86°36'45" W — 342 / 343

30' R/W | 30' R/W

Ex R/W

BEGIN WORK
BEGIN PROJECT
STA 381+01.00

LOT 18 | LOT 19 | LOT 20 | LOT 21

TEATIME INVESTMENTS, LLC
PAR 010-074473-00
#1310 E. HUDSON ST. (RES)

1320 EAST HUDSON INC.
PAR 010-074474-00
#1320 E. HUDSON ST. (COM)
(1)

1" O.D. PIPE FD.

UNNAMED 15' ALLEY — Ex R/W — N 86°36'45" W

LOT 91 | LOT 90 | LOT 89 | LOT 88

KENNETH A MARTIN
PAR 010-074487-00
#1321 LORETTA AVE. (RES)

BERNETTA ANN TODD, TRUSTEE
PAR 010-074486-00
#1325 LORETTA AVE. (RES)
(3)

LORETTA AVE. — N 86°36'45" W — 320 / 321

25' R/W | 25' R/W

5/8" REBAR FD.

LOT 132 | LOT 133 | LOT 134 | LOT 135

BRYAN C SANSBURY
PAR 010-074532-00
#1324 LORETTA AVE. (RES)

STEPHANIE CUNDIFF
PAR 010-074533-00
#1326 LORETTA AVE.
(5)

UNNAMED 15' ALLEY — N 86°31'27" W

LOT 205 | LOT 204 | LOT 203 | LOT 202

SEE PARCEL 7-T DETAIL BELOW

1B, 1C, 1A, 1D, 3B, 3C, 3D, 3A, 3F, 3E, 3G, 5B, 5C, 5D, 5A, 5E, 5F, 5G, 5-P, 1-T, 3-T, 5-T, 7-T1

N 86°26'06" W 5.00′ | N 03°33'54" E 43.88′ | S 03°33'54" W 43.88′ | N 86°26'06" W 25.00′ | S 86°36'45" E 5.00′ | N 86°36'45" W 11.00′ | N 03°33'54" E 5.00′ | S 86°36'45" E 7.00′ | N 03°33'54" E 124.30′ TMP | N 41°28'35" W 8.47′ | S 86°36'45" E 10.00′ | N 86°36'45" W 10.00′ | N 48°28'35" E 14.16′ | S 48°28'35" W 7.08′ | N 03°33'54" E 124.93′ TMP | N 41°28'46" W 7.07′ | S 86°31'27" E 10.00′ | S 03°33'54" W 124.92′ | N 86°26'06" W 25.00′ | S 03°33'54" W 10.00′ | N 86°26'06" W 25.00′ | S 03°33'54" W 373.32′

382+00.00 | 382+58.90 | 382+59.05 | 382+16.55 | 382+00.00 | 384+54.19 | 385+94.11

119.13′ | 135.68′ | 178.02′ | 178.18′ | 303.47′ | 363.47′ | 384+44.35 | 469.13′ | 385+50.00 | 513.24′ | 513.25′ | 385+94.12

BEGIN ACQUISITION
382+00.00

MEDINA AVE.

℄ CONST. & ℄ EX. R/W MEDINA AVE.

25' R/W

N 03°33'54" E 303.47′ | 383+84.35 | N 03°33'54" E 10.00′

381 | 382 | 383 | 384 | 385

(A) | (B) | (C) | (D)

2-T, 2A, 2B, 2F, 2E, 2C, 2D, 4A, 4B, 4C, 4D, 4E, 4-T1, 4F, 4-T2, 4G, 4H, 6A, 6B, 6C, 6D, 6E, 6F, 6I, 6H, 6G, 6-T1, 6-T2, 8-T

S 86°26'06" E 25.00′ | N 03°33'54" E 25.00′ | N 86°26'06" W 5.00′ | N 03°33'54" E 27.50′ | S 03°33'54" W 23.52′ | N 86°36'45" W 12.00′ | S 03°33'54" W 4.00′ | S 60°00'43" E 6.70′ | N 86°36'45" W 10.00′ | S 86°26'06" E 4.00′ | S 03°33'54" W 21.99′ | S 48°28'35" W 14.16′ | N 86°36'45" W 10.00′ | N 03°33'54" E 30.65′ | S 86°26'06" E 3.50′ | S 03°33'54" W 24.14′ | S 41°31'25" E 9.18′ | N 86°26'06" W 14.00′ | N 03°33'54" E 29.12′ | S 03°33'54" W 29.12′ | S 86°26'22" E 14.00′

(2) JONATHAN BRYAN
PAR 010-074476-00
#1332 E. HUDSON ST. (RES)

(4) DIANA PEREZ
PAR 010-074485-00
#1337 LORETTA AVE. (RES)

(6) HUDSON KING INVESTMENTS LLC
PAR 010-074534-00
#1340 LORETTA AVE. (RES)

LOT 22 | LOT 23 | LOT 87 | LOT 86 | LOT 136 | LOT 137 | LOT 201 | LOT 200

SEE PARCEL 8-T DETAIL BELOW

MATCHLINE STA 386+00 – SEE SHEET 8

℄ EX. R/W E. HUDSON ST. (CR-93) — N 86°36'45" W — 344

℄ EX. R/W UNNAMED ALLEY — N 86°36'45" W

℄ EX. R/W LORETTA AVE. — N 86°36'45" W

℄ EX. R/W UNNAMED ALLEY — N 86°26'22" W

BRIAN L. SHARP
PAR 010-074477-00
#1336 E. HUDSON ST. (RES)

SHEELA R. DAWKINS
PAR 010-074484-00
#1343 LORETTA AVE. (RES)

JEAN JONES GIBBS
PAR 010-074535-00
#1346 LORETTA AVE. (RES)

LOT 24 | LOT 85 | LOT 138 | LOT 199

30' R/W | 30' R/W | 15' R/W | 25' R/W | 25' R/W | 15' R/W

LOT 25 | LOT 84 | LOT 139 | LOT 198

322 | 323

(DND)

1" O.D. PIPE FD.

3570-E

7A, 7B, 7C, 7D, 7-T1

N 03°33'54" E 7.00′ | S 86°31'27" E 15.00′ | N 86°31'27" W 15.00′ | S 03°33'54" W 7.00′

8A, 8B, 8C, 8D, 8E, 8-T

N 03°33'54" E 5.00′ | S 41°25'49" E 4.95′ | S 86°26'22" E 10.50′ | N 86°26'22" W 14.00′ | S 03°33'54" W 1.50′

SEE SHEET 1 FOR PARCEL LEGEND, MONUMENT LEGEND
SEE SHEET 2 FOR PROJECT CONTROL, BASIS OF BEARINGS, BASIS OF STATIONING, BASIS OF ℄ EX. R/W AND RIGHT OF WAY WIDTH
SEE SHEET 5 FOR RIGHT OF WAY TOPO STA 381+00 TO STA 386+00
SEE SHEET 9 FOR STATION AND OFFSET TABLES

REV. BY	DATE	DESCRIPTION

DATE COMPLETED - FINAL R/W 5/1/2019

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

R/W DESIGNER WLC
R/W REVIEWER RMH

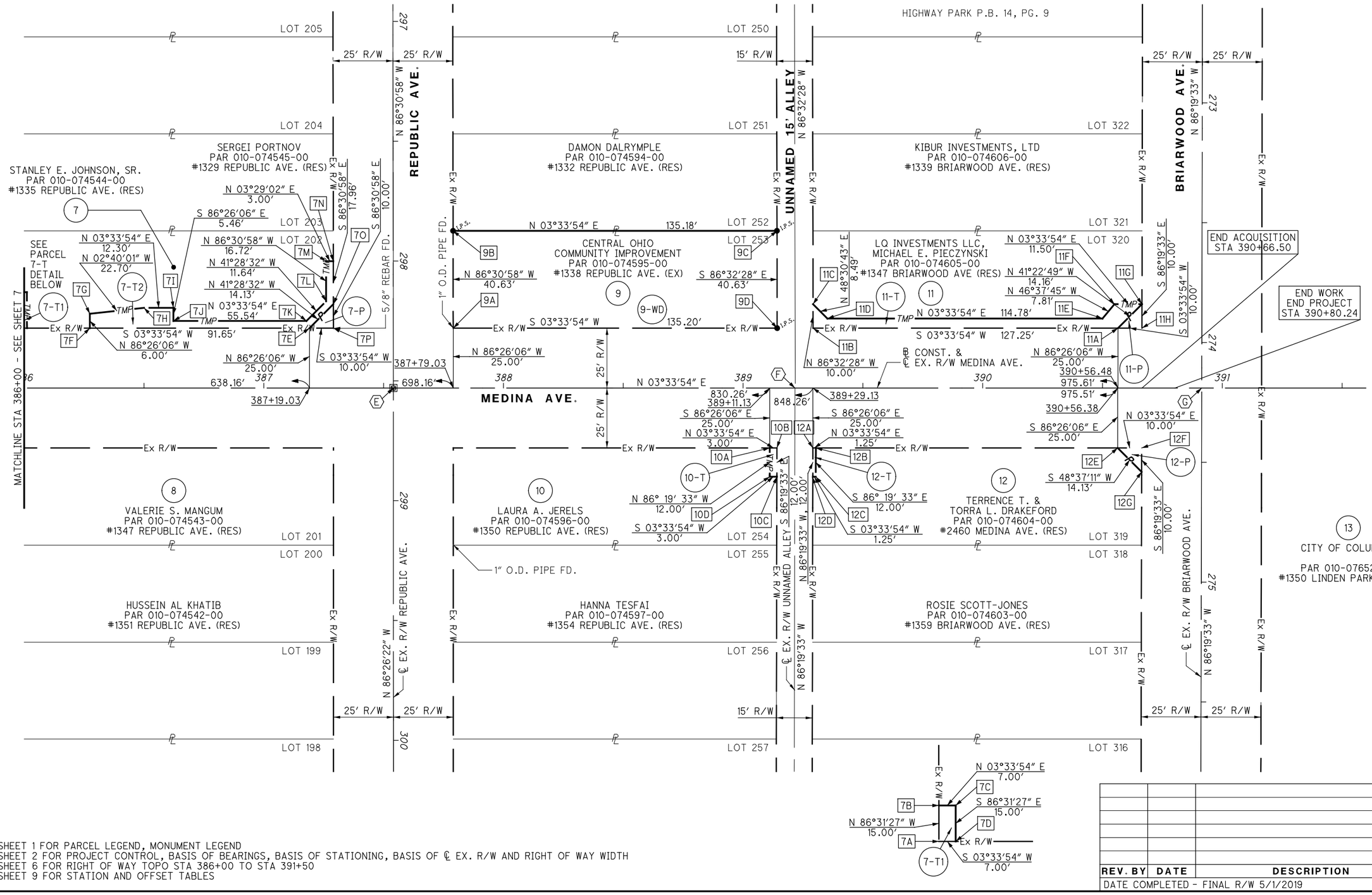
RIGHT OF WAY BOUNDARY-MEDINA AVENUE
STA 381+00 TO STA 386+00
MEDINA AVENUE

7 / 9

J:\19444_Cols GE 2018\5.0 Design (Work) Phase\task 1- Medina Avenue\53012\Design\RW\Sheets\53012_RB001.dgn Sheet 2019-06-19 3:27:37 PM william.croxton

FRANKLIN COUNTY, OHIO
FOURTH QUARTER, TOWN 1 E, RANGE 18 W
UNITED STATES MILITARY DISTRICT
CITY OF COLUMBUS

CENTERLINE EX. R/W INTERSECTIONS:
- (E) STA 387+54.04 ℄ EX. R/W MEDINA AVE.= STA 298+53.00 ℄ EX. R/W REPUBLIC AVE.
- (F) STA 389+21.68 ℄ EX. R/W MEDINA AVE.= ℄ EX. R/W UNNAMED 15' ALLEY
- (G) STA 390+91.43 ℄ EX. R/W MEDINA AVE.= STA 274+19.00 ℄ EX. R/W BRIARWOOD AVE.



SEE SHEET 1 FOR PARCEL LEGEND, MONUMENT LEGEND
SEE SHEET 2 FOR PROJECT CONTROL, BASIS OF BEARINGS, BASIS OF STATIONING, BASIS OF ℄ EX. R/W AND RIGHT OF WAY WIDTH
SEE SHEET 6 FOR RIGHT OF WAY TOPO STA 386+00 TO STA 391+50
SEE SHEET 9 FOR STATION AND OFFSET TABLES

REV. BY	DATE	DESCRIPTION

DATE COMPLETED - FINAL R/W 5/1/2019

3570-E

HORIZONTAL SCALE IN FEET: 0, 10, 20, 40

R/W DESIGNER WLC
R/W REVIEWER RMH

RIGHT OF WAY BOUNDARY-MEDINA AVENUE STA 386+00 TO STA 391+50

MEDINA AVENUE

8 / 9

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PARCEL 1-T		
REF.	STATION	OFFSET
1A	382+00.00	25.00' LT
1B	382+00.00	30.00' LT
1C	382+43.88	30.00' LT
1D	382+43.90	25.00' LT

PARCEL 2-T		
REF.	STATION	OFFSET
2A	382+16.55	25.00' RT
2B	382+44.05	25.00' RT
2C	382+44.10	42.00' RT
2D	382+40.10	42.00' RT
2E	382+40.10	30.00' RT
2F	382+16.55	30.00' RT

PARCEL 3-T		
REF.	STATION	OFFSET
3A	382+58.90	25.00' LT
3B	382+58.86	36.00' LT
3C	382+63.86	36.00' LT
3D	382+63.88	29.00' LT
3E	383+88.18	29.00' LT
3F	383.94.16	35.00' LT
3G	383+94.19	25.00' LT

PARCEL 4-T1		
REF.	STATION	OFFSET
4A	382+59.05	25.00' RT
4B	382+84.05	25.00' RT
4C	382+84.05	29.00' RT
4D	382+62.06	29.00' RT
4E	382+59.08	35.00' RT

PARCEL 4-T2		
REF.	STATION	OFFSET
4F	383+84.35	25.00' RT
4G	383+94.35	25.00' RT
4H	383+94.38	35.00' RT

PARCEL 5-P		
REF.	STATION	OFFSET
5A	384+54.19	25.00' LT
5B	384+44.49	25.00' LT
5C	384+44.16	35.00' LT

PARCEL 5-T		
REF.	STATION	OFFSET
5A	384+54.19	25.00' LT
5D	384+49.18	30.00' LT
5E	385+74.10	30.00' LT
5F	385+79.10	35.00' LT
5G	385+79.11	25.00' LT

PARCEL 6-T1		
REF.	STATION	OFFSET
6A	384+44.35	25.00' RT
6B	384+75.00	25.00' RT
6C	384+75.00	28.50' RT
6D	384+50.86	28.50' RT
6E	384+44.38	35.00' RT

PARCEL 6-T2		
REF.	STATION	OFFSET
6F	385+50.00	25.00' RT
6G	385+79.12	25.00' RT
6H	385+79.12	39.00' RT
6I	385+50.00	39.00' RT

PARCEL 7-P		
REF.	STATION	OFFSET
7E	387+19.03	25.00' LT
7O	387+29.02	35.00' LT
7P	387+29.03	25.00' LT

PARCEL 7-T1		
REF.	STATION	OFFSET
7A	385+94.11	25.00' LT
7B	385+94.09	40.00' LT
7C	386+01.09	40.00' LT
7D	386+01.11	25.00' LT

PARCEL 7-T2		
REF.	STATION	OFFSET
7E	387+19.03	25.00' LT
7F	386+27.38	25.00' LT
7G	386+27.38	31.00' LT
7H	386+50.00	33.46' LT
7I	386+62.25	33.46' LT
7J	386+62.25	28.00' LT
7K	387+17.79	28.00' LT
7L	387+26.02	36.24' LT
7M	387+25.99	52.96' LT
7N	387+28.99	52.96' LT
7O	387+29.03	25.00' LT

PARCEL 8-T		
REF.	STATION	OFFSET
8A	385+94.12	25.00' RT
8B	385+99.12	25.00' RT
8C	385+95.62	28.50' RT
8D	385+95.62	39.00' RT
8E	385+94.12	39.00' RT

PARCEL 9-WD		
REF.	STATION	OFFSET
9A	387+79.03	25.00' LT
9B	387+78.98	65.63' LT
9C	389+14.15	65.63' LT
9D	389+14.23	25.00' LT

PARCEL 10-T		
REF.	STATION	OFFSET
10A	389+11.13	25.00' RT
10B	389+14.13	25.00' RT
10C	389+14.11	37.00' RT
10D	389+11.11	37.00' RT

PARCEL 11-P		
REF.	STATION	OFFSET
11A	390+56.48	25.00' LT
11G	390+66.50	35.00' LT
11H	390+66.48	25.00' LT

PARCEL 11-T		
REF.	STATION	OFFSET
11A	390+56.48	25.00' LT
11B	389+29.23	25.00' LT
11C	389+29.21	35.00' LT
11D	389+35.22	29.00' LT
11E	390+50.00	29.00' LT
11F	390+55.00	35.00' LT
11G	390+66.50	35.00' LT

PARCEL 12-P		
REF.	STATION	OFFSET
12E	390+56.38	25.00' RT
12F	390+66.38	25.00' RT
12G	390+66.37	35.00' RT

PARCEL 12-T		
REF.	STATION	OFFSET
12A	389+29.13	25.00' RT
12B	389+30.38	25.00' RT
12C	389+30.36	37.00' RT
12D	389+29.11	37.00' RT

RIGHT OF WAY DETAIL-MEDINA AVENUE STATION AND OFFSET TABLES

DRAWN WLC | CHECKED RMH

MEDINA AVENUE

9 / 9

3570-E

REV. BY	DATE	DESCRIPTION

DATE COMPLETED - FINAL R/W 5/1/2019

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