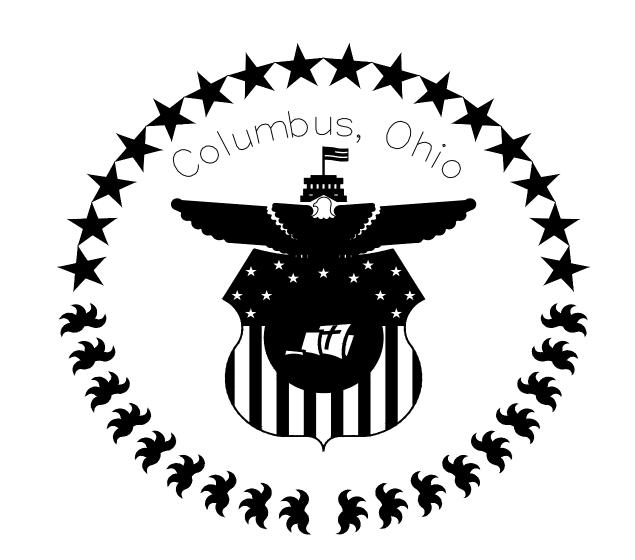
City of Columbus

Department of Public Service

Division of Design and Construction

Subdivision (Private Development) Sample Plan Sheets



INSIDE BORDER

INDEX OF SHEETS

(Information and/or sheets in the plan shall be located in order indicated.) MAINTENANCE OF TRAFFIC (NOTES AND PLAN DETAILS ___ __ __ STORM WATER POLLUTION PREVENTION PLAN ___ _ _ _ _ _ _ _ _ _ _

PROJECT DESCRIPTION

GIVE BRIEF DESCRIPTION OF RIGHT-OF-WAY IMPROVEMENT.

OWNER/DEVELOPER

BUSINESS ENTITY NAME CONTACT ADDRESS PHONE EMAIL

BENCH MARKS

Note: a copy of the Bench Circuit shall be included with the INITIAL submittal for plan review.

VERTICAL CONTROL

Vertical control is set using (note the County or City certified) source monuments(s), based on the North American Vertical Datum of 1988 (NAVD 88). (Provide source data detail and correction factor.) NORTHING EASTING BENCHMARK DESCRIPTION **ELEVATION** Monument 1 Official Name, #####.### #####.### #####.### Benchmark #####.### #####.### #####.### ⊕ твм# #####.### #####.### #####.### → TBM #

HORIZONTAL CONTROL

Plane Coordinate System, South Zone, NAD 83 (2007 NSRS Adjustment). (Provide source data detail and correction factor.) CONTROL NORTHING EASTING **DESCRIPTION ELEVATION** POINT Source Monument 1 Official Name, #####.### #####.### #####.### Monument Description Source Monument 2 Official Name, #####.### #####.### #####.### Monument Description #####.### #####.### #####.###

BASIS OF BEARINGS

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

#####.###

#####.###

#####.### | #####.###

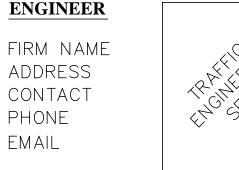


REGISTERED ENGINEER

2

#3





DATE

#####.###

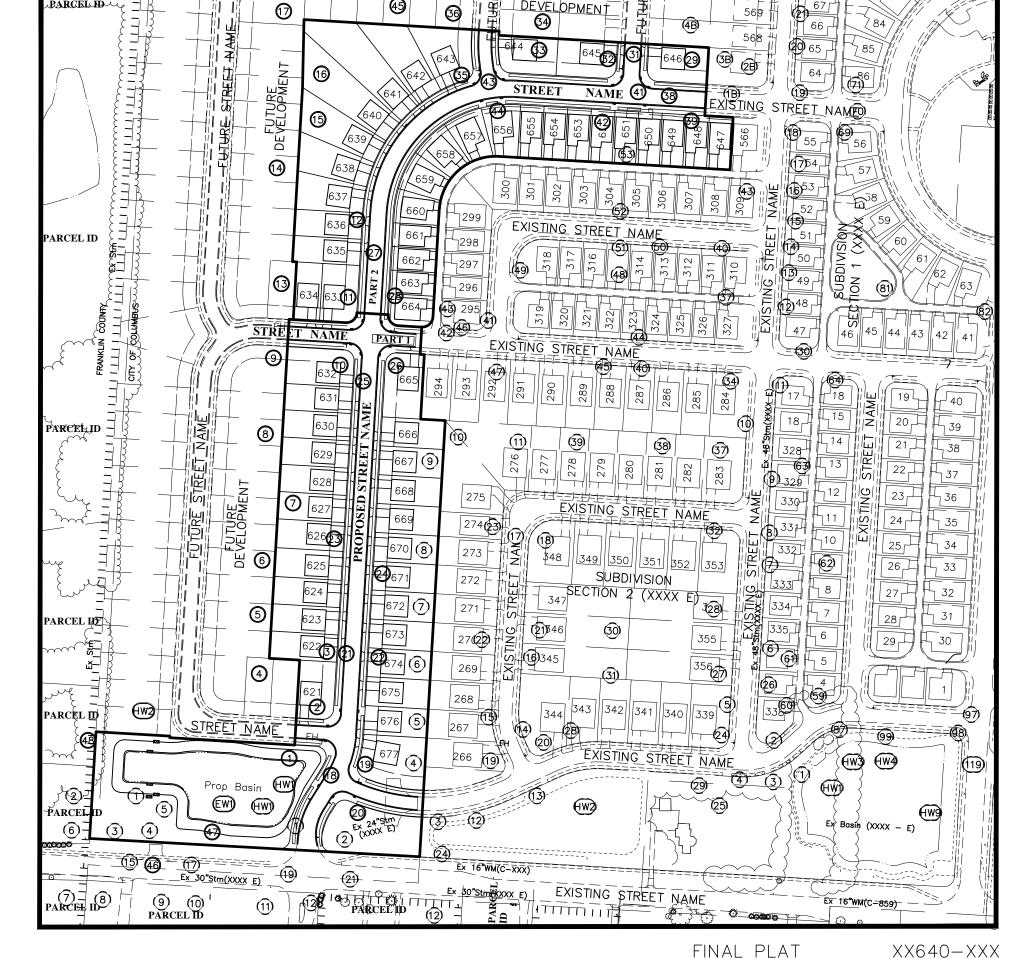
#####.###

BMP Water

Quality Note.

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

SECTION X, PARTS X & X



ZONING

Development Name: Zoning Case Number Address

ODOT STANDARD

INDEX MAP

City Council Ordinance Number:

Site Earth
Disturbed Area.

SUBDIVISION NAME Zxx-xxx Zoning ADDRESS $\times \times \times \times \times - \times \times \times \times \times$

COLUMBUS STANDARD

SANITARY

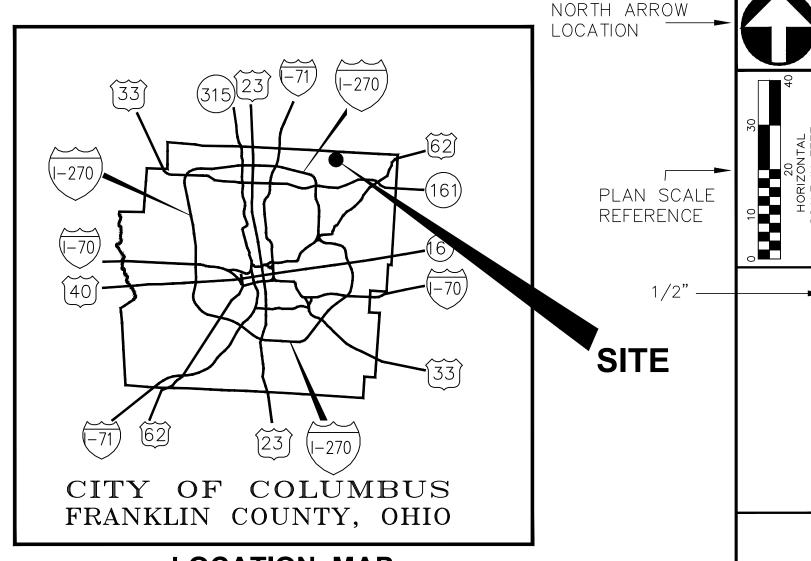
OTHER

CC#XXXXX

SUPPLEMENTAL

#XXXX

CONSTRUCTION	DRAWINGS	CO	NSTRUCT	SPECIFICATIONS			
MT-35.10	×/×/××	1441	x/x/xx	AA-S102	x/x/xx	SS-1100	x/x/xx
MT-95.41	×/×/××	2000	x/x/xx	AA-S107	x/x/xx	SS-1551	x/x/xx
MT-101.70	×/×/××	2203	x/x/xx	AA-S133	x/x/xx	SS-1630	x/x/xx
		2300	x/x/xx	AA-S120	x/x/xx		
		2319	x/x/xx				



LOCATION MAP

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 THE PLANS 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.

CITY ENGINEER/ADMINISTRATOR DIVISION OF DESIGN AND CONSTRUCTION

ADMINISTRATOR, DIVISION OF POWER DATE

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE

DIRECTOR, DEPARTMENT OF RECREATION AND PARKS

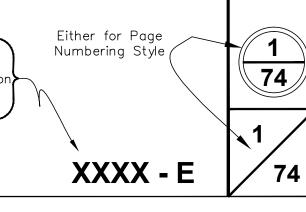
ADMINISTRATOR, DIVISION OF WATER DATE

FIRE PREVENTION BUREAU, DIVISION OF FIRE DATE

REV	REVISION DESCRIPTION	SHEET(S)	INITIAL	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)

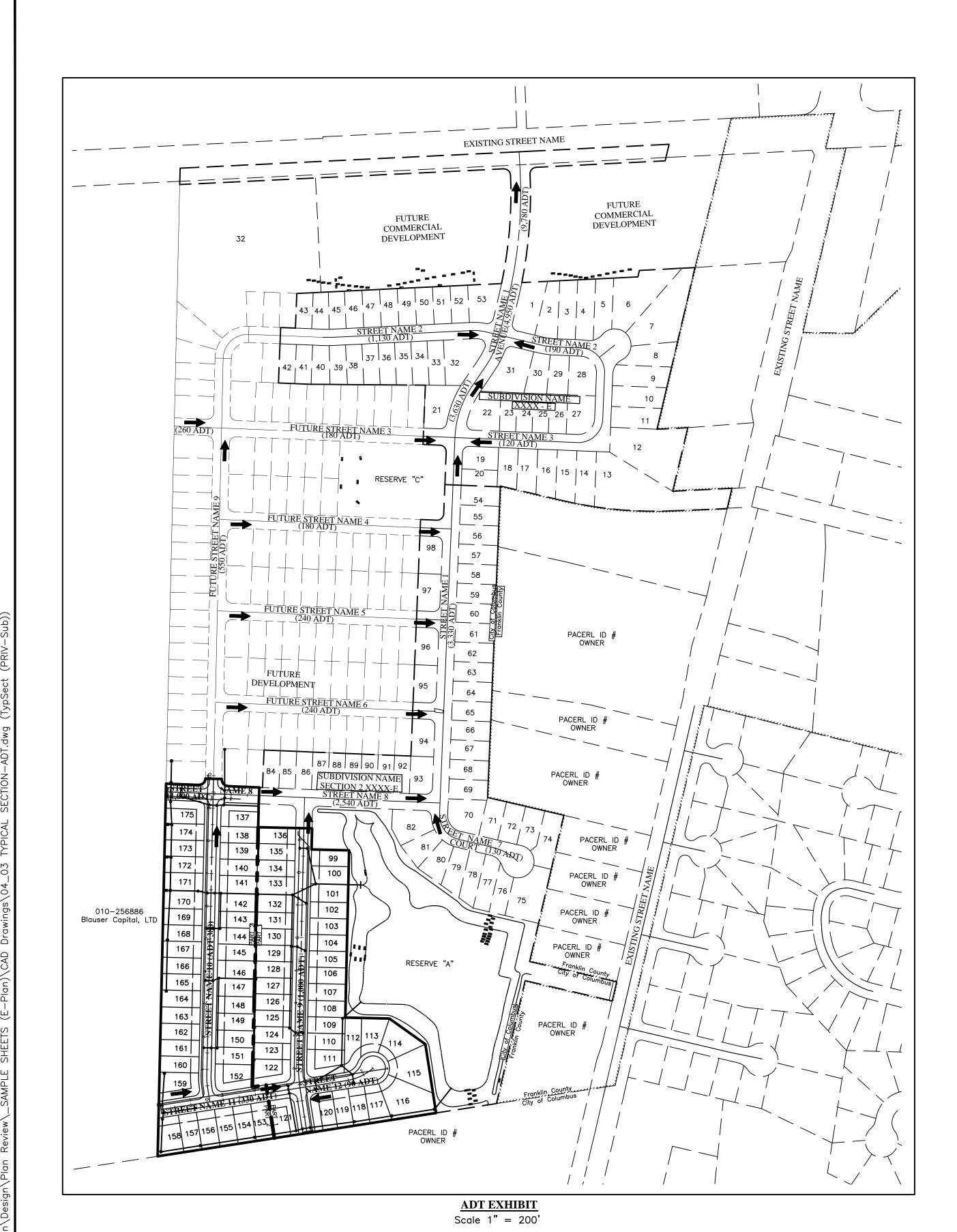


DATE

SH

OUTSIDE EDGE OF SHEET

INSIDE BORDER



COMBINATION

CURB & GUTTER, TYPE STANDARD

Scale 3/4" = 1'-0"

Profile Grade Line

Pavement

Pavement

Pavement

Pavement

Pavement

Pavement

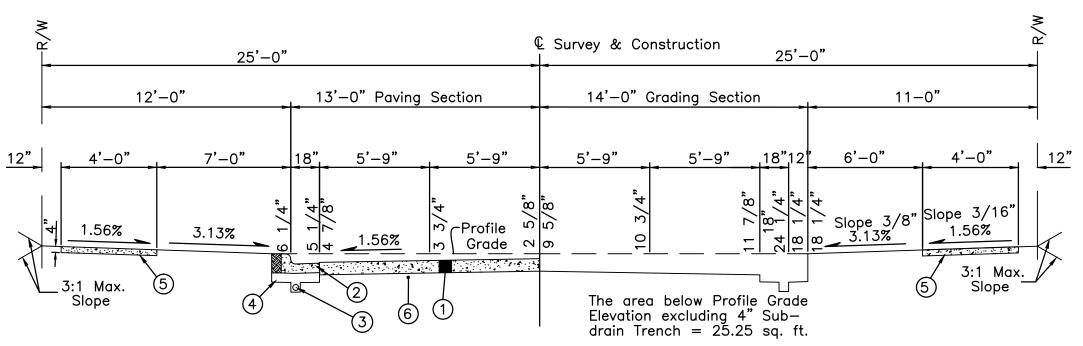
COMBINATION

CURB & GUTTER, TYPE STANDARD

Scale 3/4" = 1'-0"

Portland Cement Concrete Class"C"

Std. Dwg. 2010



TYPICAL 26' SECTION (50' R/W) W/ COMBINATION CURB & GUTTER Scale 1" = 5'

STREET NAME 8 (1,000 ADT) (725 SY) © STA 0+00.00 to 2+85.50

STREET NAME 12 (90 ADT) (950 SY) © STA 0+00.00 to 2+72.82 STREET NAME 9 (1,000 ADT) (2,535 SY) © STA 0+00.00 to 9+38.53

© STA 0+00.00 to 9+38.33 STREET NAME 10 (380 ADT) (2,280 SY) © STA 0+00.00 to 9+10.91 © STA 9+78.13 to 9+90.34

STREET NAME 11 (330 ADT) (PART 1 - 180 SY, PART 2 - 925 SY) © STA 0+00.00 to 4+38.08

PAVEMENT LEGEND (STANDARD CONCRETE PAVEMENT)

- 1 Item 452 7" Non-Reinforced Portland Cement Concrete Pavement
- 2 Item 609 Combination Curb & Gutter, Type Standard
- 3 Item 605 4" Underdrain
- 4 No. 8 or No. 57 Aggregate. (Also used for replacement work)
- 5 Item 608 4" Concrete Sidewalk
- 6 Item 204 Compacted Subgrade

NOTE TO CONSULTANTS

Refer to City of Columbus
Pavement Design Policies and
Standard Drawings for pavement
design.

'ITEM SPECIAL' NOTES - INCLUDE ONLY IF APPLICABLE [CIP] OR [PRIV DEV]

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

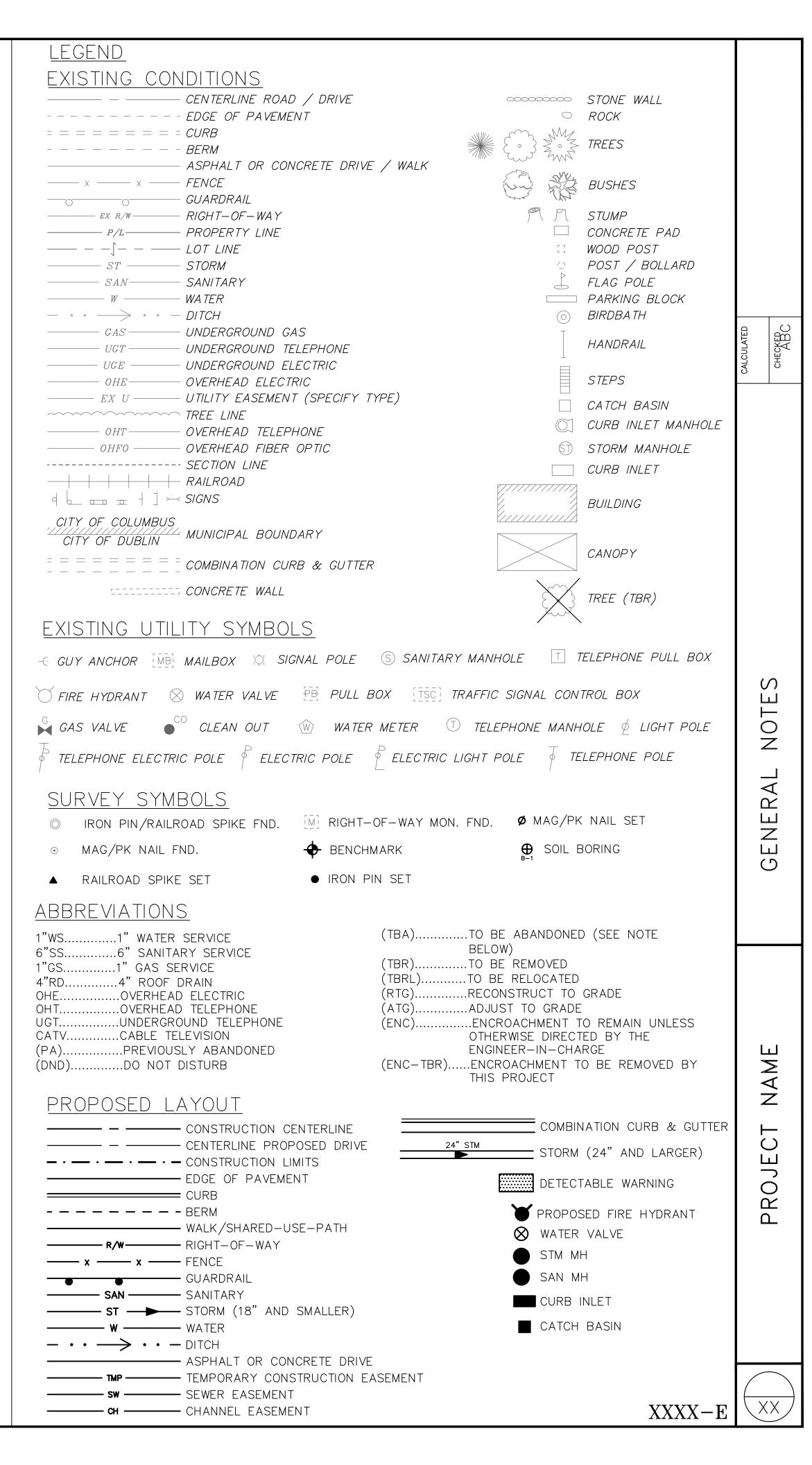
THE DIVISION OF POWER HAS (PRIMARY OR STREET LIGHTING OR SECONDARY) IN THE PROJECT

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



 \circ

'ITEM SPECIAL' NOTES - INCLUDE ONLY IF APPLICABLE [CIP] OR [PRIV DEV]

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

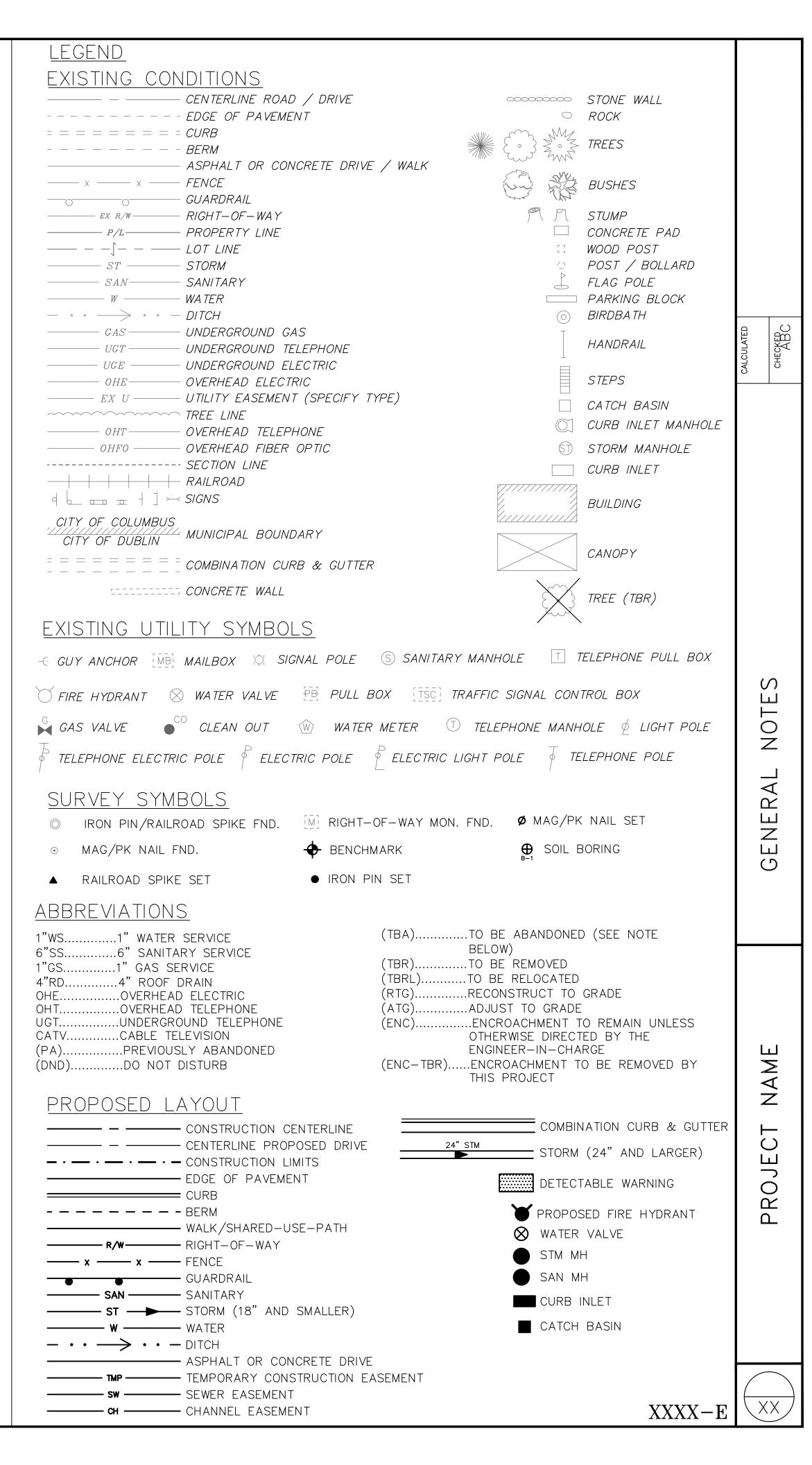
THE DIVISION OF POWER HAS (PRIMARY OR STREET LIGHTING OR SECONDARY) IN THE PROJECT

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



 \circ

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 CLOSU
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.
- 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.

TEMPORARY TRAFFIC CONTROL NOTES IF APPLICABLE FOR PRIVATE DEVELOPMENT PROJECTS

B. TEMPORARY TRAFFIC CONTROL ITEMS

 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. 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.
- 3. A FLASHING ARROW PANEL (48" x 96"-TYPE C) SHALL BE USED IN LANE CLOSURES AS PER THE OHIO MANUAL (OMUTCD).
- 4. 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.
- 5. ALL EXISTING TRAFFIC LANES SHALL BE OPEN TO TRAFFIC AT ALL TIMES ON:
- 6. 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.
- 7. ONE-WAY LANE (S) OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON
- 8. 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.
- 9. 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.
- 10. _____ 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.
- 11. 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).
- 12. 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.
- 13. 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).
- 14. 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.
- 15. 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.
- 16. 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.
- 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. 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.
- 19. 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.
- 20. 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 PRIVATE DEVELOPMENT 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.

EXISTING PERMANENT TRAFFIC CONTROL NOTES IF APPLICABLE FOR PRIVATE IMPROVEMENT PROJECTS

- D. EXISTING PERMANENT TRAFFIC CONTROL ITEMS
- 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.

NOTE #5 INSTRUCTIONS: DO NOT PLACE IN PLAN

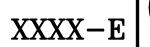
INSERT NOTE #5 WHEN; WORKING NEAR A LOCATION WHERE TRAFFIC LOOP DETECTION AND/OR ITS LEAD IN CABLES COULD BE INADVERTENTLY DAMAGED. CONTINGENCY ITEMS AND ESTIMATED QUANTITIES SHALL ONLY BE INCLUDED AS DIRECTED BY THE PLAN REVIEWER. LOOP DETECTION AND/OR ITS LEAD IN CABLES BEING DESTROYED OR ELSE RENDERED 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 $\frac{1}{2}$, 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.





SCALE

25

EXISITNG PERMANENT TRAFFIC CONTROL NOTES ITEM SPECIAL FOR CAPITAL IMPROVEMENT PROJECTS

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

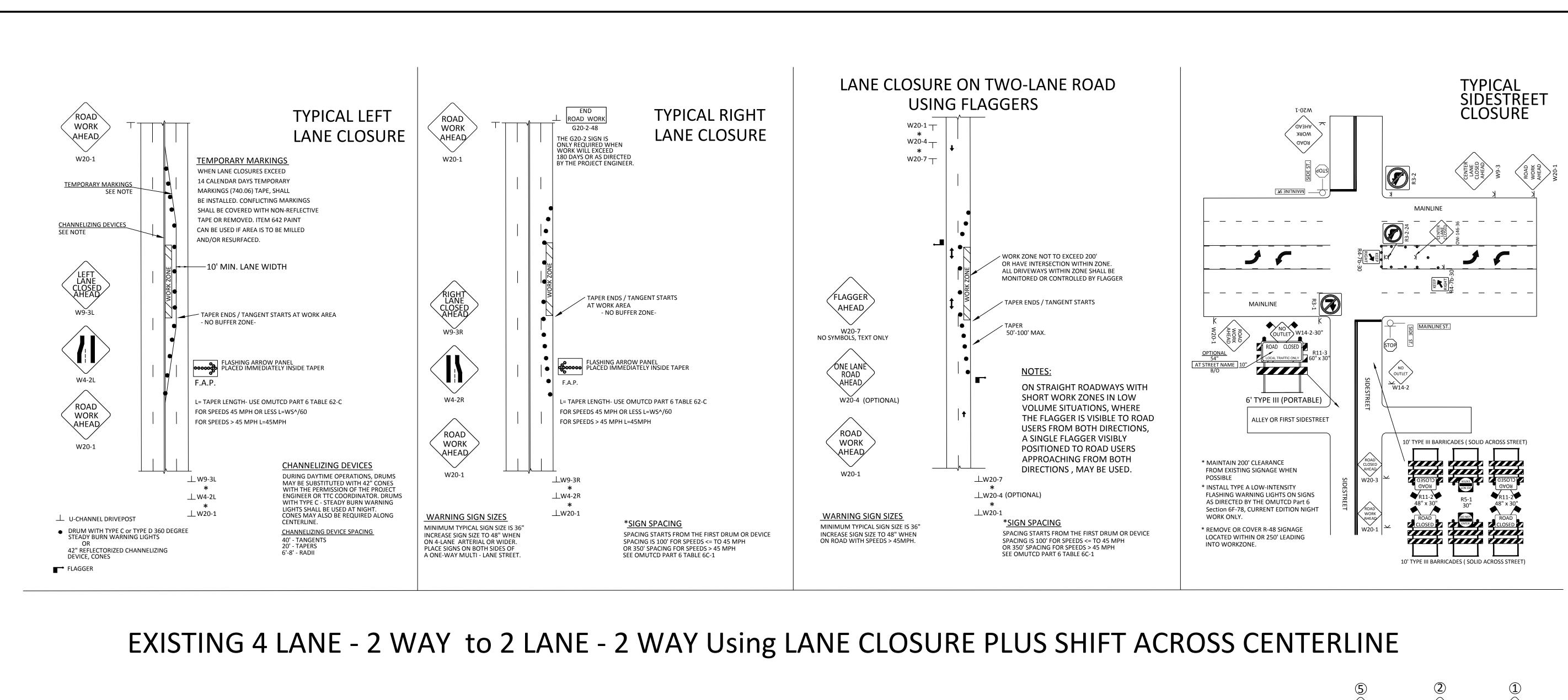
THE CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT OF PUBLIC SERVICE REGARDING PARKING METERS TO BE REMOVED, METERS TO BE RELOCATED, AND NEW METER INSTALLATION.

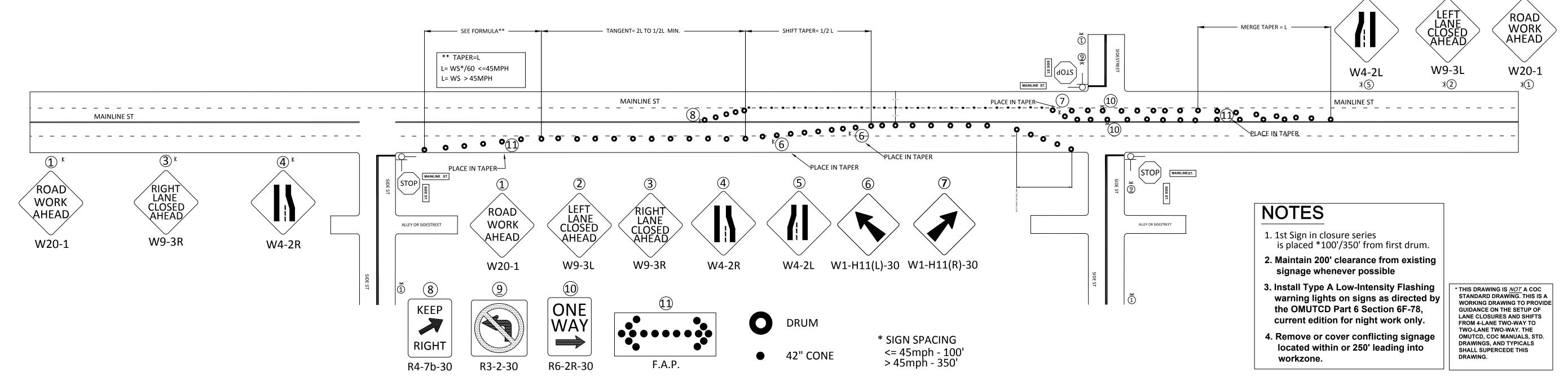
THE DEPARTMENT OF PUBLIC SERVICE WILL REMOVE ANY METER HEADS SPECIFIED TO BE REMOVED, ROTATE METER HEADS SPECIFIED TO BE ROTATED; AND INSTALL METER HEADS AND POSTS FOR ANY NEW METERS SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE POST AFTER THE METER HEAD IS REMOVED BY DPS. 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





0

Z Z

N N

MAN

AM

Z

JE

0

PR

)			

X

 $\left| \frac{\mathbf{x}}{\mathbf{x}} \right|$

0

 \simeq

Z

 \triangleleft

 \Box

Q

0

 \triangleleft

- 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

- Install required sediment fence and inlet protection on existing inlets as shown on Phase 1 Plan
- Install utilities and storm sewers. Provide inlet protection.
- Construct proposed street and utilities. Stabilize the disturbed areas per temporary and permanent
- seeding requirements. 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													
ITEN/		TOTA	L QUAN	TITY	LINUT								
ITEM	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

LEGEND

Catch Basin Protection

Curb Inlet Protection

Filter Fabric Fence

Structure Number

Perimeter Filter Fabric Fence

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.

OLLUTIO

Ф

 Δ

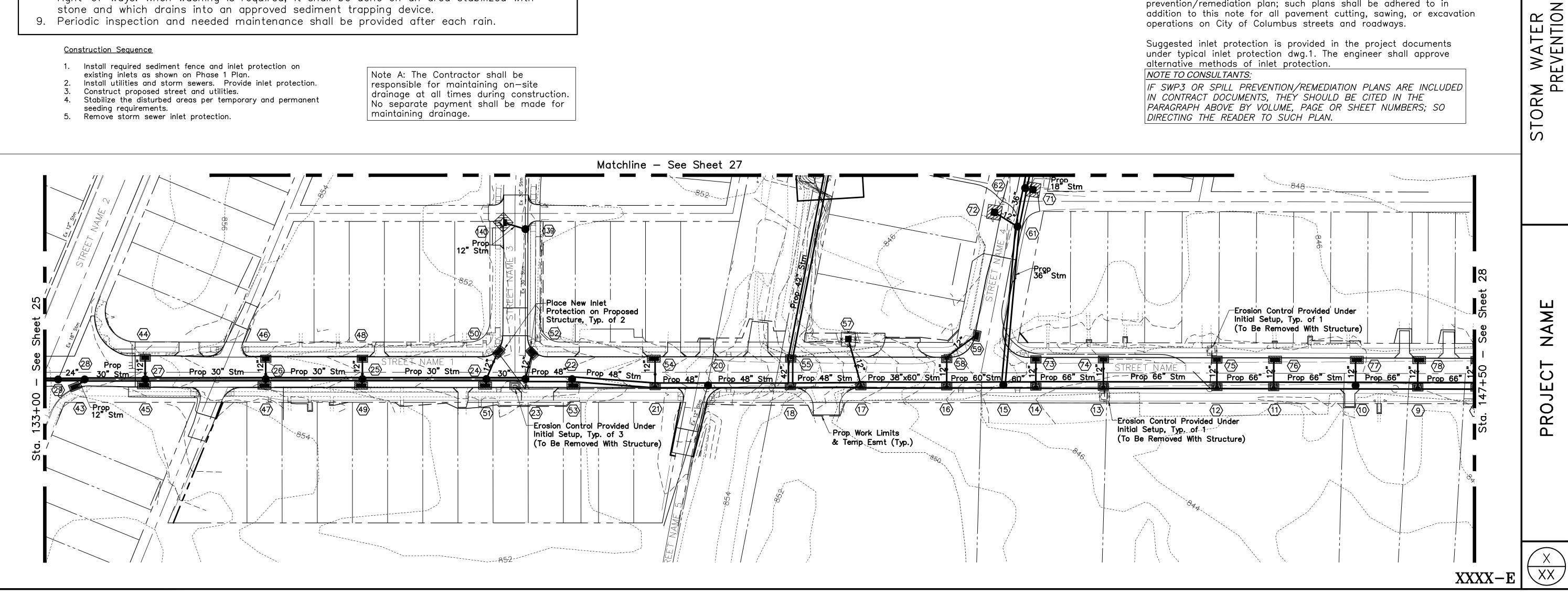
Z

 \circ

ROJE

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.



Lifting Straps

<u>VALUES</u>

90 lb. Minimum

Note: The use of straw wattles has proven to be a versatile

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 effective ESC BMP, especially in residential settings. Straw

wattles may be substituted for silt fence in linear installations.

190 psi Minimum

0.3 gal./min./f^2 Max

MAINTENANCE:

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

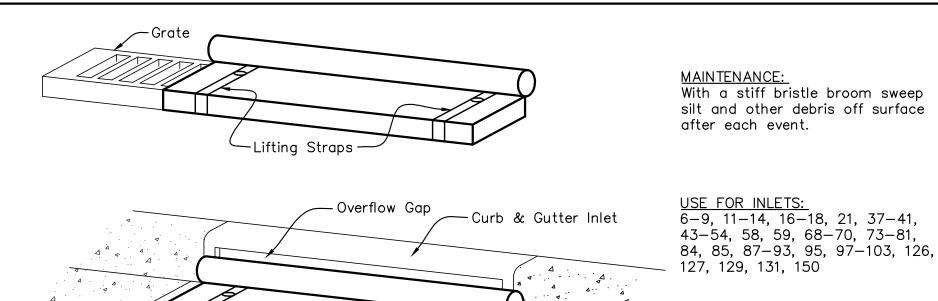
Close attention shall be paid to the repair of damaged check dams, end runs and undercutting beneath dams.

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



No. 57 or-Plastic No. 2 Stone Liner -Concrete Washout Area Straw Bales --Existing Ground

Straw Bales

CONCRETE WASHOUT AREA

10' (Min.)

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.

No. 57 or

No. 2 Stone

Concrete-

Washout

CURB OPENING -WITHOUT GRATE -MANHOLE OVERFLOW-AGGREGATE-

> MAINTENANCE: Remove all accumulated sediment and unit after each storm event.

USE FOR INLETS:

CURB INLET PROTECTION WITHOUT GRATE

POUCH CURB FILTER

debris from the surface and vicinity of the

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

Existing (See sheet 24)

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.

CONTRACTOR RESPONSIBILITY: Details have been provided on the plans in an

effort to help the Contractor provide erosion and sedimentation control.

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

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: 4 lbs./1,000 Sq.Ft. Fertilizer: (12:12:12) 20 lbs./1,000 Sq.Ft. 2 tons/acre (3 tons/acre) Mulch: Straw (Hay)

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

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

OEPA NOI #:

PLAN DESIGNER: ENTITY: ADDRESS: CONTACT NAME: PHONE:

ENTITY: OWNER: ADDRESS:

CONTACT NAME: PHONE: EMAIL:

EMAIL:

PROJECT The project consists of approximately 2,100 feet of DESCRIPTION:

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.

Ή.

0

Ē

. |-|-

ட

OLI PLA

ER TO

'AT ÆN

 \geq

≥ o

 \mathcal{L}

 \bigcirc

—

(/)

AM

Z

O

 \simeq

EXISTING SITE The entire project Corridor discharges directly to the CONDITIONS: 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

EROSION AND

SEDIMENT

MEASURES:

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 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 All disturbed areas shall be seeded and mulched. STABILIZATION: 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.

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:

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:

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). 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.

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

A trench shall be excavated approximately 4 inches wide and 6 inches deep along the line of posts and upslope from the barrier.

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.

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.

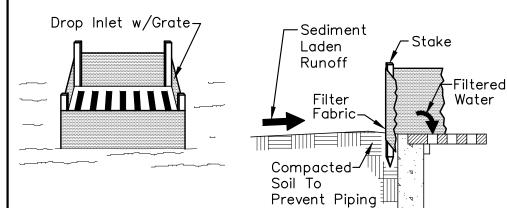
7. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item No. 6 applying.

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. 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.

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 cfs) are typical. This method shall not apply to inlets

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.

FABRIC PROPERTIES

Grab Tensile Strength

Mullen Burst Strength

Equivalent Opening Size

Ultraviolet Radiation Stability 90% Minimum

Slurry Flow Rate

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one—half the

U.S. Std. Sieve CW-02215

TEST METHOD

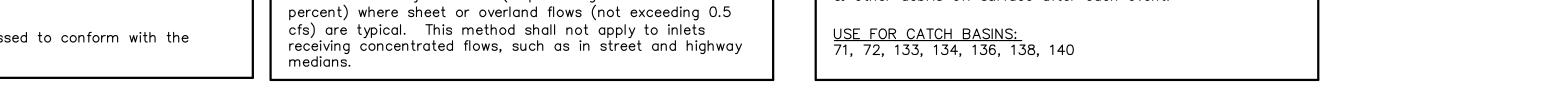
ASTM 1682

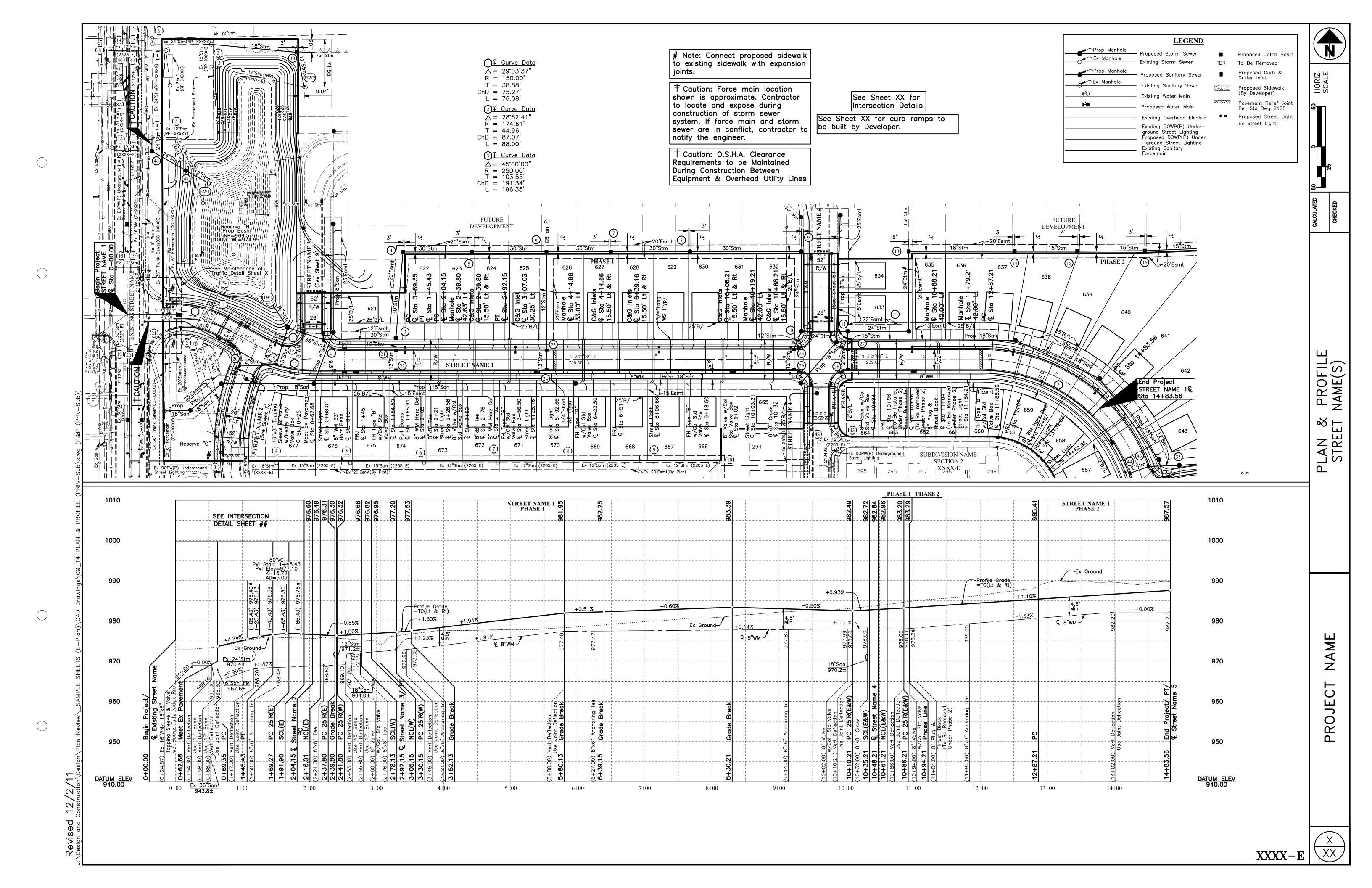
ASTM 3786

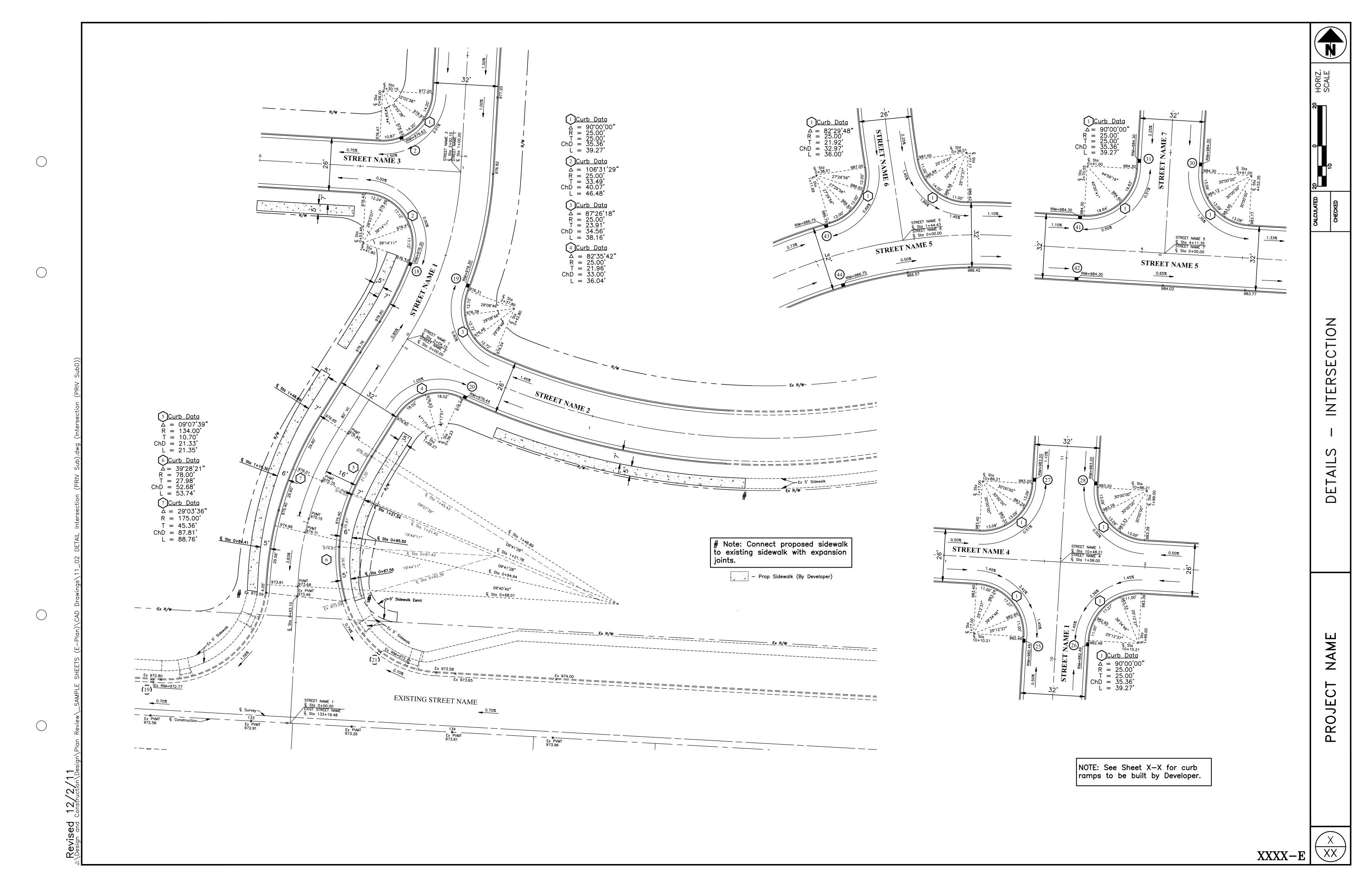
ASTM-G-26

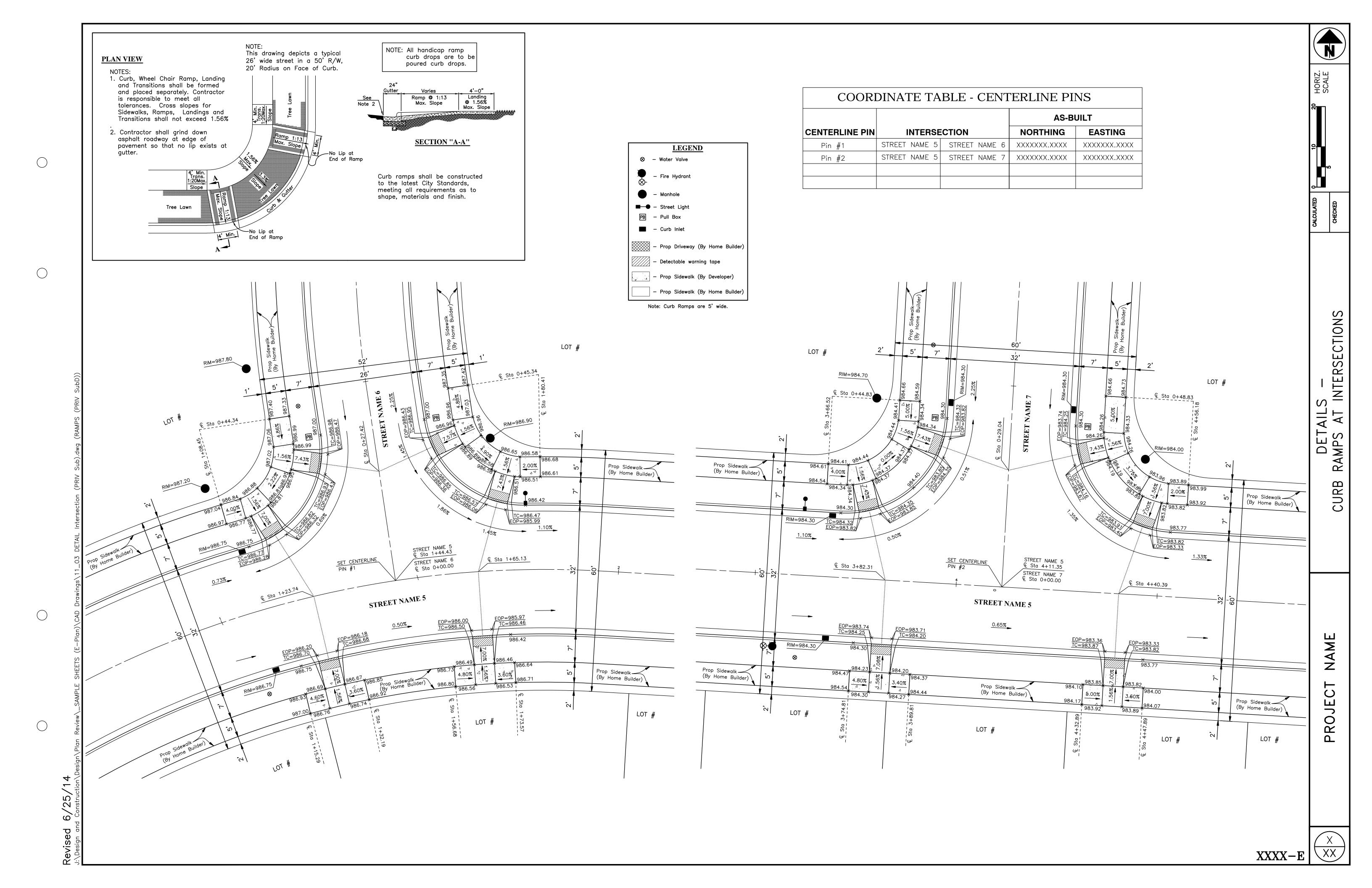
Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

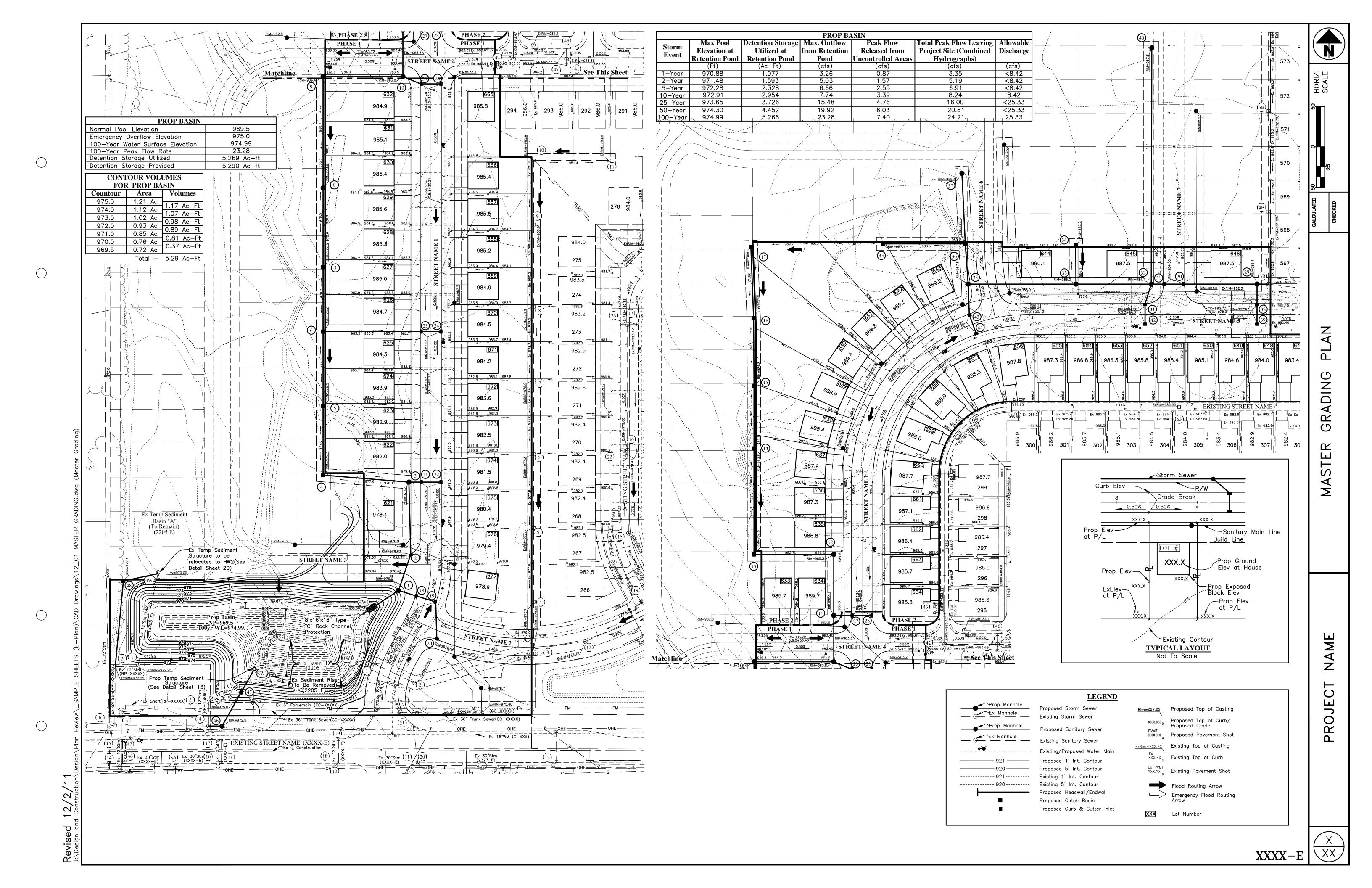
XXXX-E

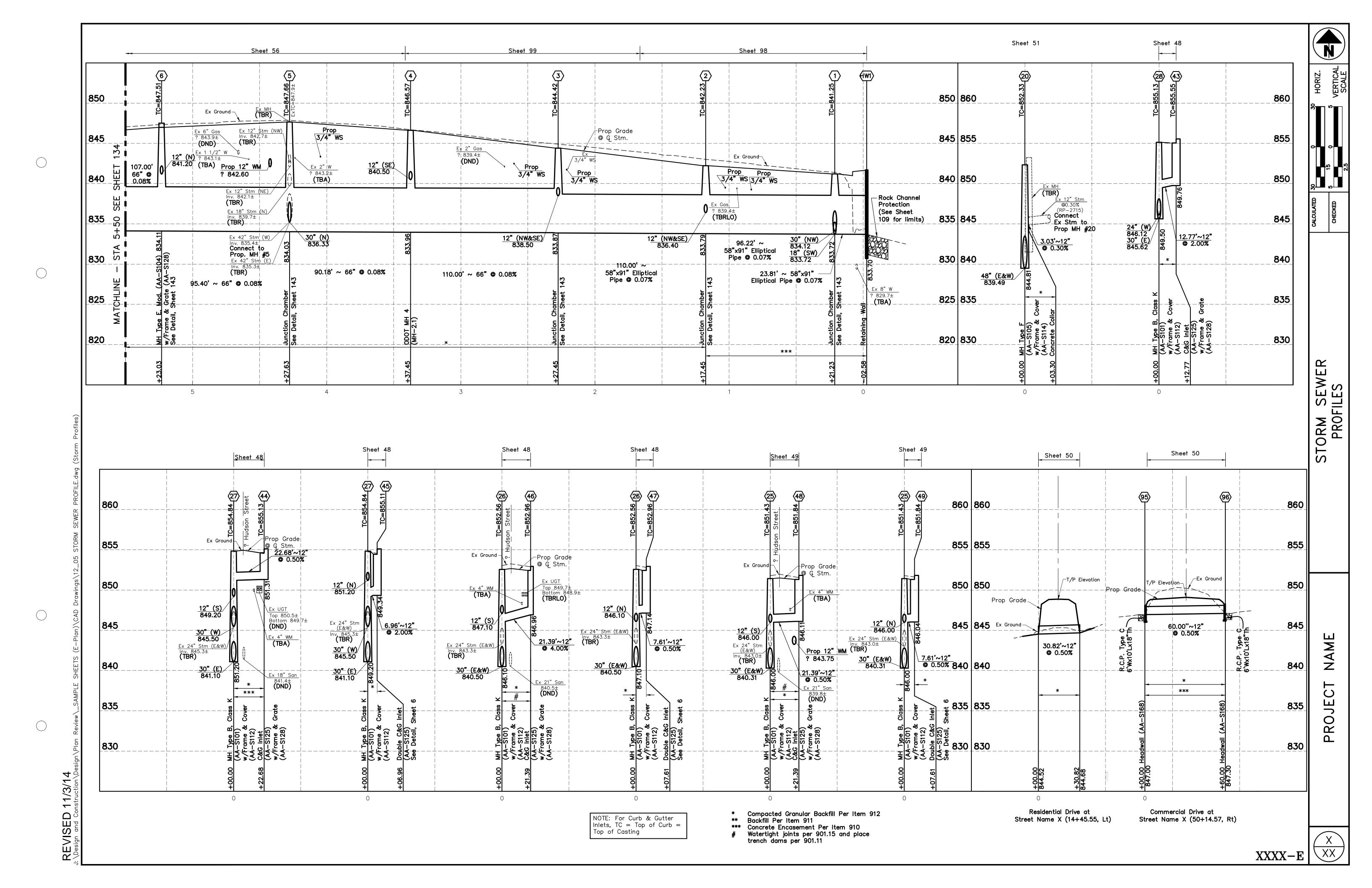












PHASE STRUCTURE NORTHING		S BUILT	DATA	COORDINATE	TORIVI SEVVER	PROPOSED		
Hight	LEVATION		NORTHING	FLEVATION	FASTING	Γ	STRUCTURE	PHASE
1 785485.1414 1868119.1381 XXX.XX		7.01						
2 765515,8380 1868140,5214 XXX,XX								
3 765623,4468 1868144,0679 XXX,XX								1
4 765641,4017 1868016,9000 XXX XX								
5 765744,2256 1868022,9199 XXX XX								
1 7 765854.9803 1868029.4042 XXX.XX								
1 7 766950.8717 1868035.0182 XXX.XX								
8 766068.6700 1868041.9149 XXX.XX								
9 766234.4419 1868051.6202 XXX XX XX								
10 766227.4869 1868170.4167 XXX.XX								
11								
12 766387,2134 1868179,7681 XXX,XX								
13 766394.1684 1868060.9715 XXX XX								
14 766551 9983 1868070.2060 XXX.XX								
15 76645,0399 1868075,6591 XXX.XX 16 76674,6008 1868080,9619 XXX.XX 17 766851,6598 1868080,30556 XXX.XX 18 765453,6270 1868144,5450 XXX.XX 19 765442,5894 1868173,5139 XXX.XX 20 765387,2464 1868171,8527 XXX.XX 21 765622,4240 1868171,8527 XXX.XX 22 765620,6121 1868192,4850 XXX.XX 22 765620,6121 1868192,4850 XXX.XX 24 765846,5320 1868174,6587 XXX.XX 24 765844,7022 186820,6057 XXX.XX 25 766214,9569 1868195,2285 XXX.XX 26 766213,1450 1868227,1755 XXX.XX 27 766294,8201 186820,9042 XXX.XX 28 766293,0083 1868227,1755 XXX.XX 29 766752,6450 1868033,2432 XXX.XX 30 766758,9864 1868724,9287 XXX.XX 31 766760,7892 1868693,9817 XXX.XX 32 766761,8650 1868697,6609 XXX.XX 33 766768,4254 1868656,7439 XXX.XX 34 766826,3468 1868666,7439 XXX.XX 36 766837,9665 186840,3609 XXX.XX 37 766943,0988 1868403,6609 XXX.XX 39 766692,2484 1868820,7072 XXX.XX 40 76713,2193 1868697,0844 XXX.XX 41 766702,8258 186841,0473 XXX.XX 42 766702,0898 1868642,9977 XXX.XX 43 766763,25518 186862,9977 XXX.XX 44 766702,8258 186841,0473 XXX.XX 45 766845,1246 186862,2917 XXX.XX 46 76672,8518 186840,2517 XXX.XX 47 766325,3081 186784,6792 XXX.XX 48 76672,8518 186840,2517 XXX.XX 49 76672,8518 186860,2917 XXX.XX 40 76713,2193 1868692,9927 XXX.XX 41 76670,28258 1868411,0473 XXX.XX 42 76670,28258 1868411,0473 XXX.XX 43 76672,8518 186860,2917 XXX.XX 44 766702,8258 1868411,0473 XXX.XX 45 766845,1246 186820,22611 XXX.XX 46 765278,000 186784,6792 XXX.XX 47 765325,3081 186784,6792 XXX.XX 48 765325,3081 186784,6792 XXX.XX 49 766325,3081 186784,6792 XXX.XX 40 765325,3081 186784,6792 XXX.XX 41 765325,3081 186784,6792 XXX.XX 42 766325,3081 1867876,0976 XXX.XX								
2 16 766745.6008 1868080.9619 XXX XX 17 766851.6598 1868083.0556 XXX XX 18 765453.6270 1868173.5139 XXX XX 19 765442.6894 1868173.5139 XXX XX 20 765397.2464 1868173.5139 XXX XX 21 765622.4240 1868161.5380 XXX XX 22 765620.6121 1868174.6567 XXX XX 24 765846.5320 1868174.6567 XXX XX 24 765847.702 186820.6057 XXX XX 25 766214.9569 1868196.2285 XXX XX 26 766213.1450 1868200.9042 XXX XX 27 766294.8201 1868200.9042 XXX XX 28 766752.6450 18688201.8512 XXX XX 29 766752.6450 18688724.9287 XXX XX 31 766758.9864 1868724.9287 XXX XX 32 766761.8650 1868675.7609 XXX XX 33 766782.544 1868								
17 766851.6598 1868083.0556 XXX.XX								0
18								2
19 765442.5894 1868173.5139 XXX.XX 20 765387.2464 1868171.8527 XXX.XX 21 765620.6121 1868161.5380 XXX.XX 22 765620.6121 1868192.4850 XXX.XX 22 765620.6121 1868192.4850 XXX.XX 22 765620.6121 1868192.4850 XXX.XX 24 765846.5320 1868174.6587 XXX.XX 25 766214.9669 1868196.2285 XXX.XX 26 766213.1450 1868227.1755 XXX.XX 27 766294.8201 186820.9042 XXX.XX 28 766293.0083 1868231.8512 XXX.XX 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 186856.7439 XXX.XX 34 766826.3468 186856.7439 XXX.XX 35 766777.8152 1868403.3220 XXX.XX 36 766837.9665 1868402.4935 XXX.XX 37 7669943.0988 1868403.6609 XXX.XX 38 766723.1954 1868831.5190 XXX.XX 39 766692.2484 1868831.5190 XXX.XX 41 766732.9559 1868667.0944 XXX.XX 42 766702.0089 1868667.0944 XXX.XX 43 766732.5518 1868402.2517 XXX.XX 44 766702.8258 186841.0473 XXX.XX 45 766845.1246 186829.0707 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867874.60976 XXX.XX								
20 765387.2464 1868171.8527 XXX XX								
21 76562.4240 1868161.5380 XXX.XX								
22 755620.6121 1868192.4850 XXX.XX								
1 23 765846.5320 1868174.6587 XXX.XX 24 765844.7202 1868205.6057 XXX.XX 25 25 766214.9569 1868196.2285 XXX.XX 26 26 766213.1450 1868227.1755 XXX.XX 27 766294.8201 1868209.9042 XXX.XX 28 766294.8201 1868209.9042 XXX.XX 28 766293.0083 1868231.8512 XXX.XX 29 766752.6450 1868833.2432 XXX.XX 29 766752.6450 1868833.2432 XXX.XX 20 30 766755.9864 1868833.2432 XXX.XX 20 31 766760.7962 1868693.9817 XXX.XX 20 32 766761.8650 1868675.7609 XXX.XX 20 33 766768.4254 1868563.7047 XXX.XX 20 33 766768.4254 1868563.7047 XXX.XX 20 35 766777.8152 1868403.3220 XXX.XX 20 36 766837.9665 1868402.4935 XXX.XX 20 36 766837.9665 1868402.4935 XXX.XX 20 37 766943.0988 1868403.6609 XXX.XX 20 38 766723.1954 1868831.5190 XXX.XX 20 39 766692.2484 1868829.7072 XXX.XX 20 39 766692.2484 1868697.0844 XXX.XX 20 39 766692.2484 1868829.7072 XXX.XX 20 39 766692.2484 1868829.7072 XXX.XX 20 39 766692.2484 1868829.7072 XXX.XX 20 39 766692.2484 1868697.0844 XXX.XX 20 39 766692.2484 1868829.7072 XXX.XX 20 39 766692.2484 1868491.0473 XXX.XX 20 39 76692.2517 XXX.XX 20 39 76692.2518 1868491.0473 XXX.XX 20 39 76692.2519 1868698.0281 XXX.XX 20 39 76692.2519 186924.6270 XXX.XX 20 39 76692.2519 XXX.XX 20 39 7669								
24 765844.7202 1868205.6057 XXX.XX								
25								1
26								
27								
28								
29								
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867846.0976 XXX.XX 47 765325.3081 1867876.0976 XXX.XX 47 765325.3081 1867876.0976 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 38 766723.1954 1868831.5190 XXX.XX 39 76692.2484 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 46 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867876.0976 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 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 45 766845.1246 1868280.2281 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX								
33								
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 45 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868675.7609	766761.8650	32	
35						766768.4254	33	
2 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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868566.7439	766826.3468	34	
2 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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868403.3220	766777.8152	35	
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX				XXX.XX	1868402.4935	766837.9665	36	
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867876.0976 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868403.6609	766943.0988	37	2
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX						766723.1954	38	
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX							39	
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 Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX				XXX.XX	1868697.0844	767113.2193	40	
43 766732.5518 1868402.2517 XXX.XX 44 766702.8258 1868411.0473 XXX.XX 45 766845.1246 1868280.2281 XXX.XX Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868664.8045	766732.9559	41	
44 766702.8258 1868411.0473 XXX.XX 45 766845.1246 1868280.2281 XXX.XX Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX							42	
45 766845.1246 1868280.2281 XXX.XX Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX							43	
Ex 4 765278.0020 1867824.6270 XXX.XX 46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX					1868411.0473		44	
46 765276.6194 1867844.5792 XXX.XX 47 765325.3081 1867876.0976 XXX.XX							45	
47 765325.3081 1867876.0976 XXX.XX					1867824.6270	765278.0020	Ex 4	
					1867844.5792	765276.6194	46	
					1867876.0976	765325.3081	47	
				XXX.XX	1867896.4641	765356.7696	EW1	1
Ex 2 765374.4739 1867690.9458 XXX.XX					1867690.9458	765374.4739	Ex 2	
48 765501.2345 1867710.4558 XXX.XX				XXX.XX	1867710.4558	765501.2345	48	
HW2 765509.1319 1867762.5710 XXX.XX				XXX.XX	1867762.5710	765509.1319	HW2	

STORM SEWER COORDINATE DATA

	11-27	S 86°38'58" E	26.50'	15"
	27-28	S 86°38'58" E	31.00'	12"
	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"
2	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"
	Ex 4-46	S 86°02'09" E	20.00'	24"
	46-47	N 32°55'01" E	58.00'	18"
1	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"

STORM SEWER DATA

PHASE STRUCTURE DIRECTION DISTANCE SIZE

HW1-1

1-2

2-3

3-4

4-5

5-6

6-7

7-8

8-9

9-10

10-11

11-12

12-13

13-14

14-15

15-16

16-17

1-18

18-19

19-20

3-21

21-22

6-23

23-24

10-25

25-26

N 59°57'53" E

N 22°05'11" E

N 01°53'16" E

N 81°57'49" W

N 03°21'02" E

S 86°38'58" E

N 03°21'02" E

N 03°21'02" E

S 86°38'58" E

N 03°21'02" E

N 03°21'02" E

N 03°01'07" E

N 01°07'51" E

S 69°28'12" E

S 69°28'12" E

S 01°43'10" W

N 86°38'58" W

S 86°38'58" E

S 86°40'17" E

S 86°38'58" E

S 64°06'23" E

S 86°38'58" E

39.95'

56.87'

107.67'

128.43'

103.00'

110.94'

96.06'

118.00'

166.06'

119.00'

69.00'

91.00'

119.00'

158.00'

93.30'

100.70'

106.08'

27.13'

31.00'

55.37'

17.50'

31.00'

145.50'

31.00'

28.69'

31.00'

30"

30"

30"

30"

24"

24"

12"

12"

12"

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

REF ITEM NORTHING EASTING ELEVATION STATION 1 16"x12" Tapping Sleeve 133+39.09 133+39.00 2 12" Water Main Valve 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+70.00 135+00.00 6 Grade Break Use Joint Defl (Vert) 135+23.00 7 3/4" WS (Long) (ADDRESS) See Sheet 49 STREET NAME 1 2 3/4" WS (Short) (ADDRESS) 135+38.00 3 3/4" WS (Long) (ADDRESS) 135+57.00 135+70.00 4 12"x6" Anchor Tee 5 6" Fire Hydrant Valve 135+70.00 135+75.60 6 Fire Hydrant 7 3/4" WS (Long) (ADDRESS) 135+95.00 135+99.14 8 12" 22.5° Bend (Horiz) 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 1 137+34.00 1 3/4" WS (Long) (ADDRESS) 137+66.16 2 12"x8" Tee 3 12" 45° Bend (Vert) 137+71.35 137+75.00 4 12" 45° Bend (Vert) 137+85.38 5 12" 45° Bend (Vert) 6 12" 45° Bend (Vert) 137+90.00 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+95.00 139+00.00 12 12" 22.5° Bend (Vert) 13 12" 22.5° Bend (Vert) 139+05.00 139+10.14 14 12" 22.5" Bend (Vert) 15 12" 22.5° Bend (Vert) 139+15.00 STREET NAME 1 See Sheet 51 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+15.00 141+20.00 12 3/4" ARO w/ Ferrule Box See Sheet 52 STREET NAME 1 142+12.27 1 12" 11.25° Bend (Vert) 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 147+27.50 1 12" 22.5° Bend (Vert) 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+07.50 148+12.50 9 12" 22.5" Bend (Vert)

6/25/14

REVISED ...

See Sheet 48

STREET NAME 1

AS-BUILT

*

See S	Sheet 98 STF	REET NAME	2 <i>F</i>	\S-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 S	Sheet 56 STR	REET 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			
	12" 22.5° Bend (Vert)	129+87.48			
14	12" 22.5° Bend (Vert)	129+95.00			
	, ,				
See S	Sheet 100 STF	REET NAME	3		
1	3/4" WS (Short) (ADDRESS)	30+50.00			
2	2" WS (Long) (ADDRESS)	30+68.00			
	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 S	L Sheet 50 STR	REET NAME	4	<u> </u>	
1	8" Water Main Valve w/ Cols. Std HD Valve Box	0+23.50	<u>'</u>	Ι	
2	8" 45° Bend (Horiz)	0+35.90			
3	8"x6" Reducer	0+38.73			
	6" 45° Bend (Horiz)	0+40.90			
	o to bend (nonz)	51 1 0.30			

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

LEGEND

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

* <u>NOTE</u>: PROVIDE COORDINATES AND ELEVATIONS OF WATER SERVICES AT THE CURB STOP.

DAT

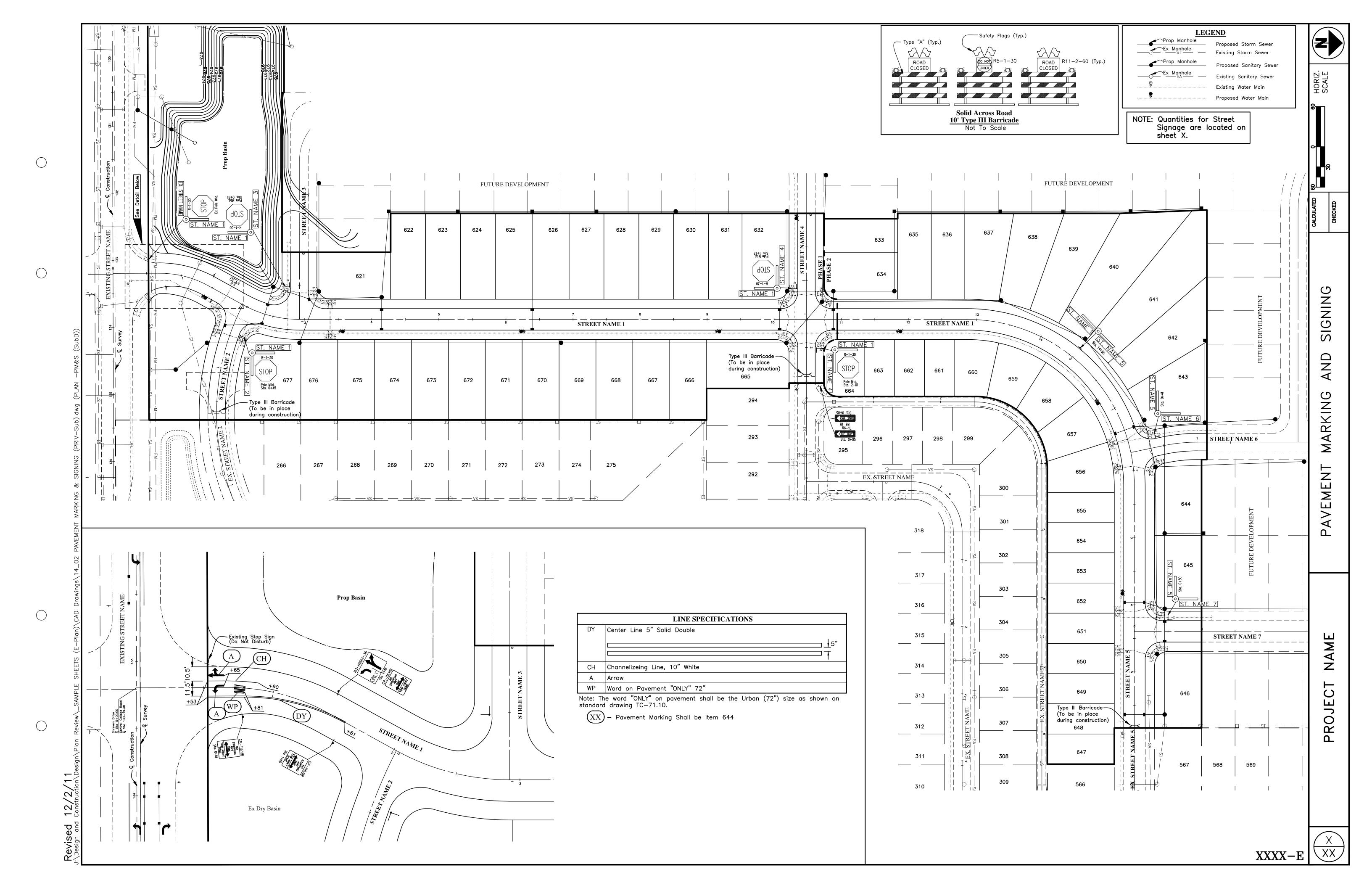
/ATERLINE COODINATE

S

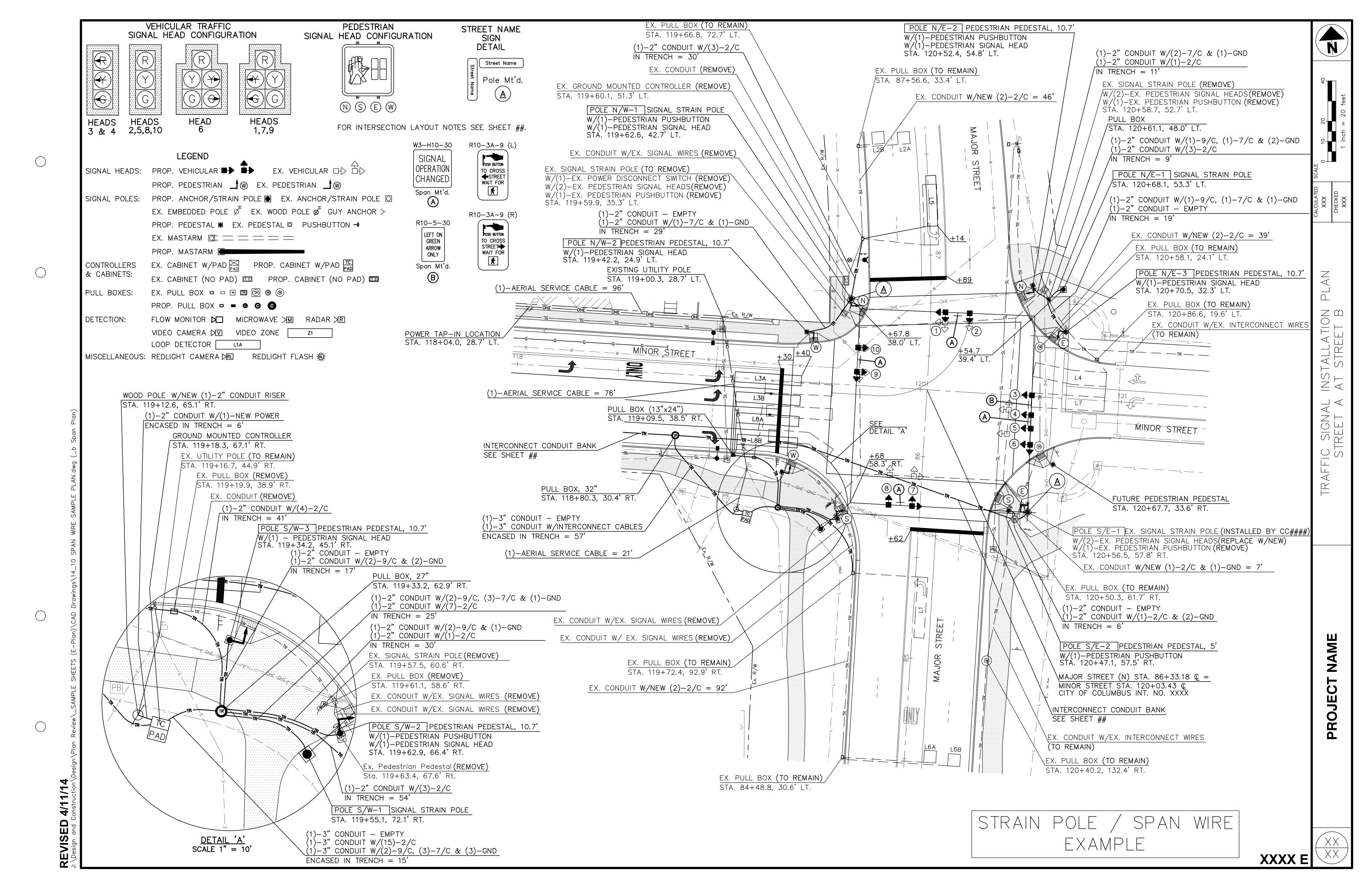
NAME

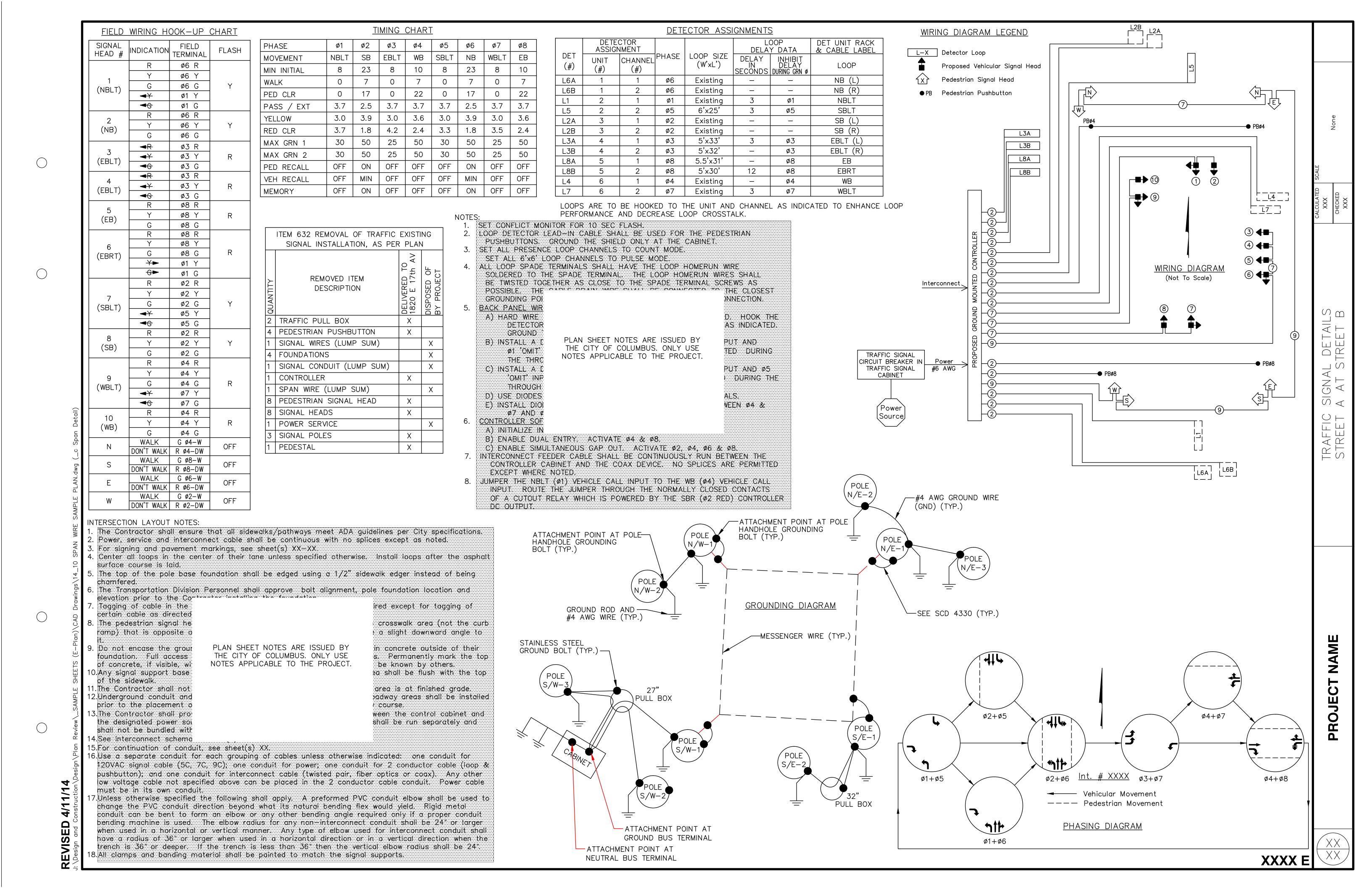
Ö

PROJE(



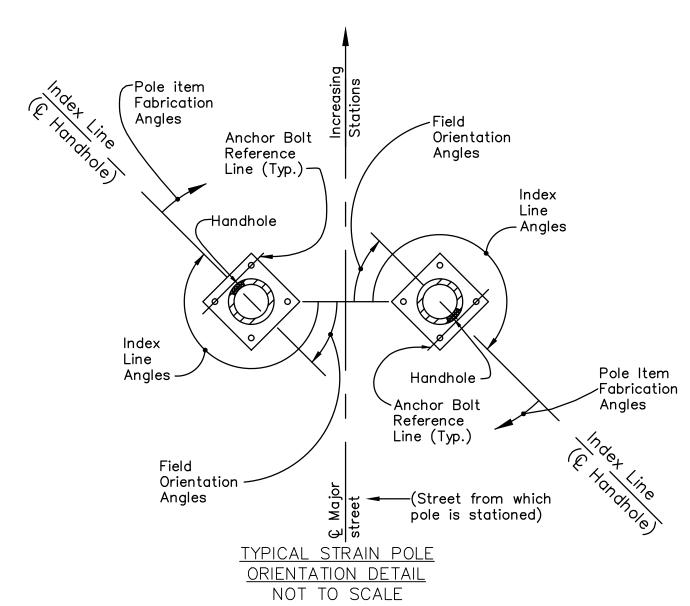
XXXX E XX



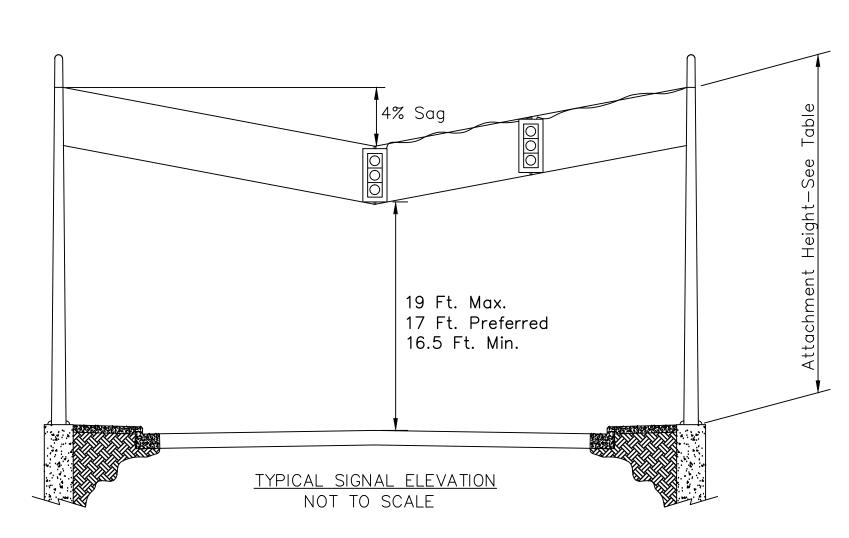


Ш
\geq
4
7
—
Ö
Ш
5
Ó
Œ
_

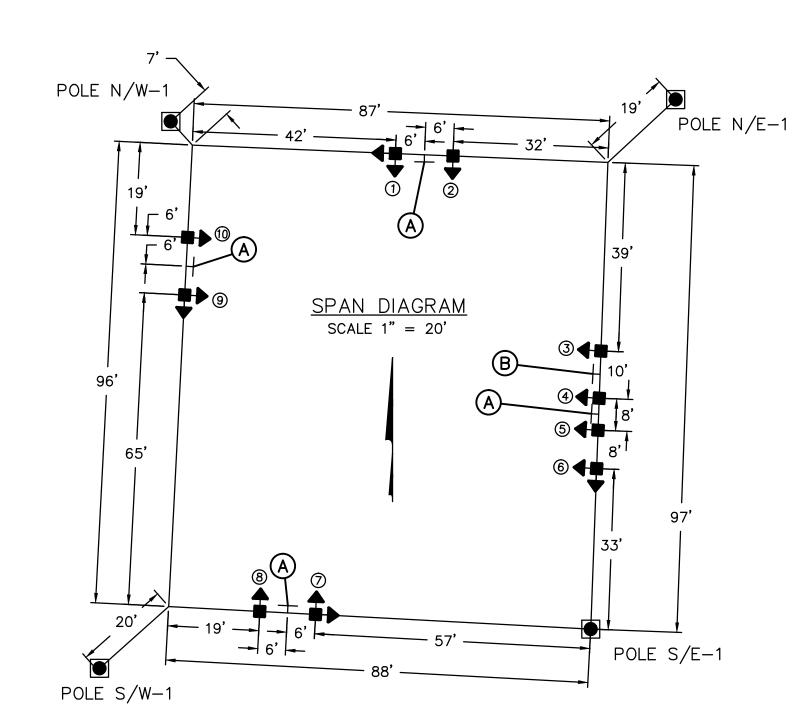
		POLE SIZES & SPAN ATTACHMENT HEIGHT						POLE FABRICATION DATA CLOCKWISE FROM HANDHOLE AT 0 DEGREES						FIELD ORIENTATION			
INTERSECTION	SHEET NO.	POLE DESIGNATION	POLE COLOR	POLE DESIGN NO.	POLE HT. (FT.)	ATTACHMENT HT. (FT.) SPAN @ HT. (FT.)	ANCHOR BOLT REF. LINE	2" BHC ANGLE—HT. DEG.—FT.	3" BHC 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	
CTDEET		S/W-3	Dark Bronze	PEDESTAL	10.7'	_	90°	_	_	262°	_	_	198°	108°	_	725.95	
STREET A AT	XXX	N/W-2	Dark Bronze	PEDESTAL	10.7'	_	90°	_	_	99°	_	_	171°	81°	_	726.16	
STREET B		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	



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



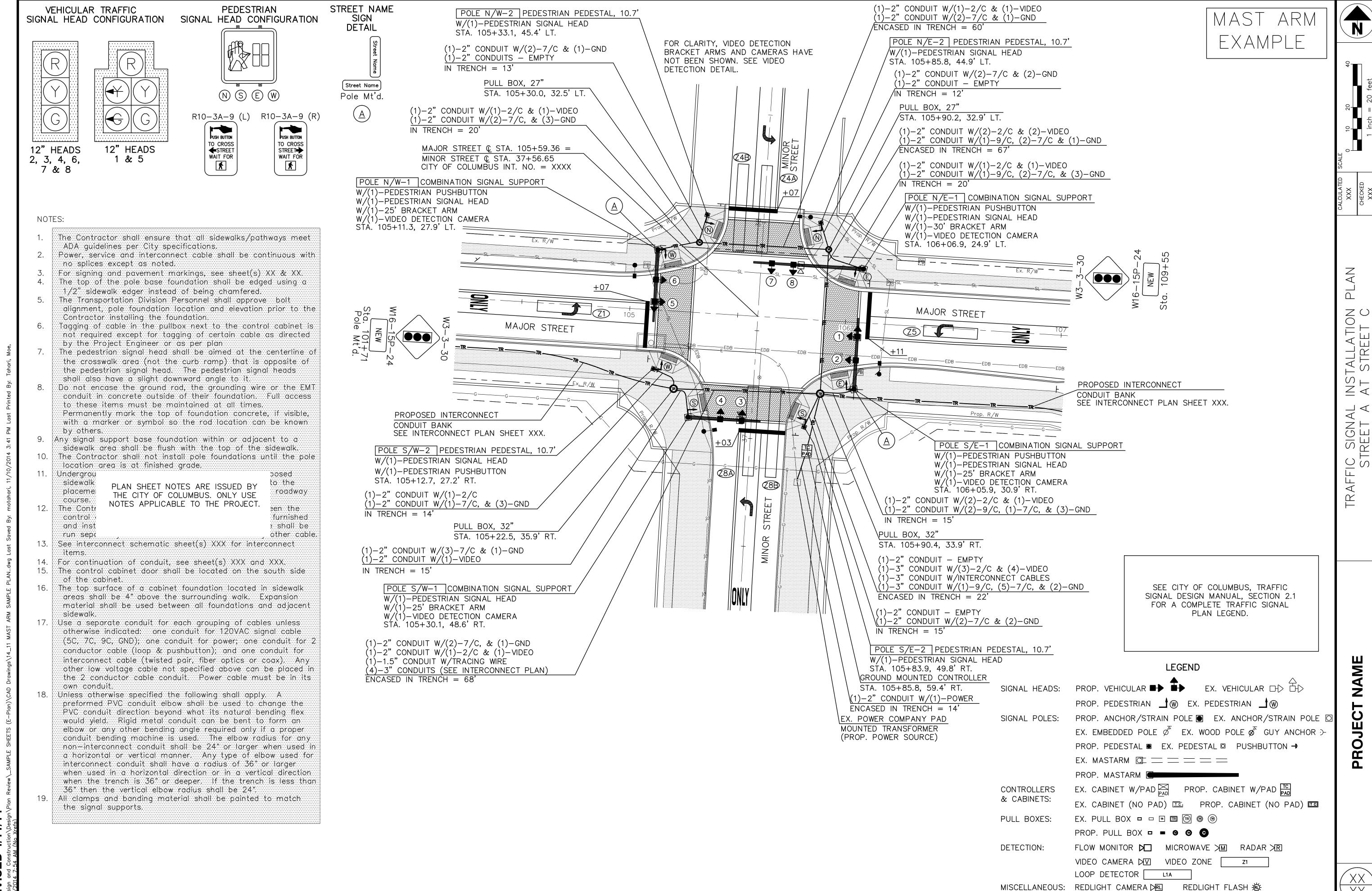
NOTES:
1. The lowest signal head height in each direction shall be set at 16.5 feet minimum (17' preferred). Adjust the span accordingly.



NOTES:

- 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.



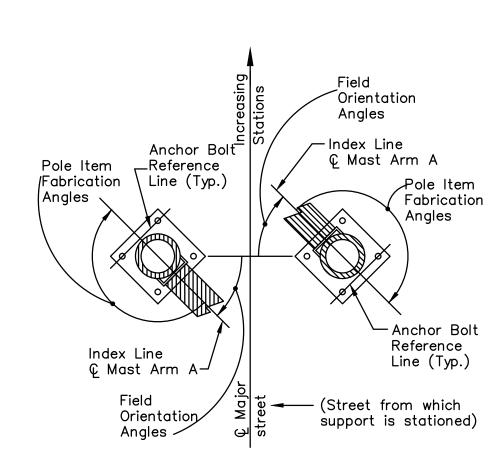
NAME

O

ď

XXXX E

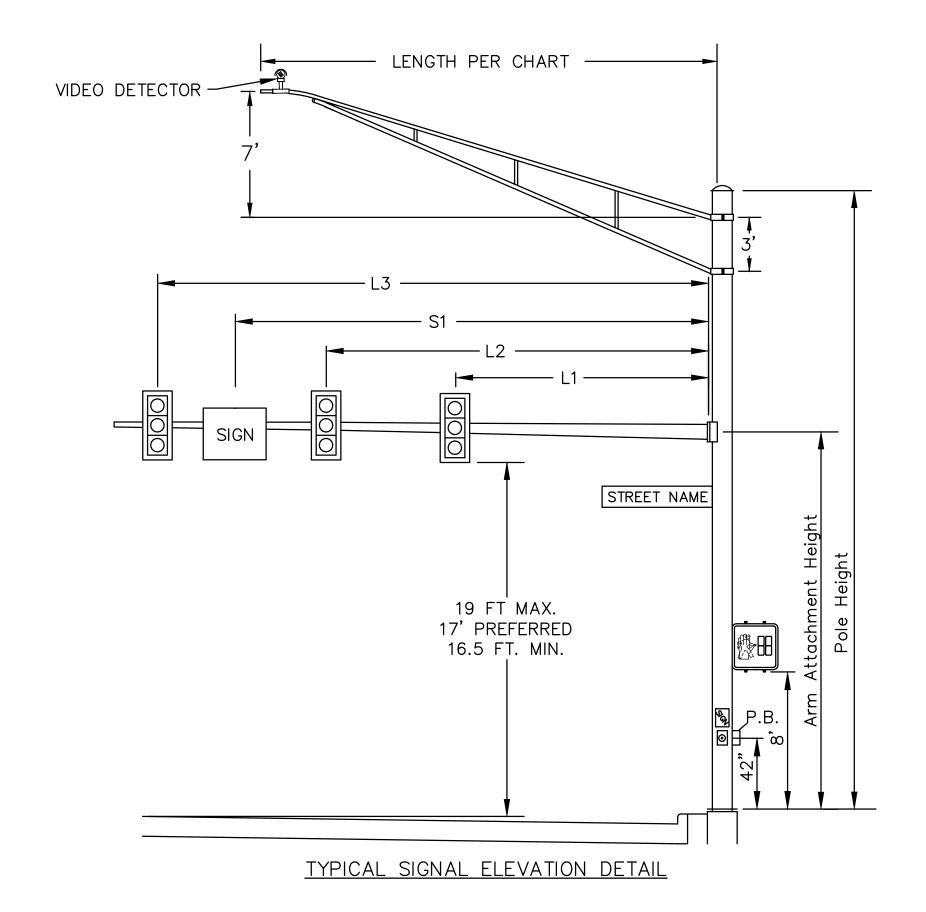
REVISED and Constru



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



ORIENTATION

ABRICATION AND DETAILS

POLE

NAME

PROJECT