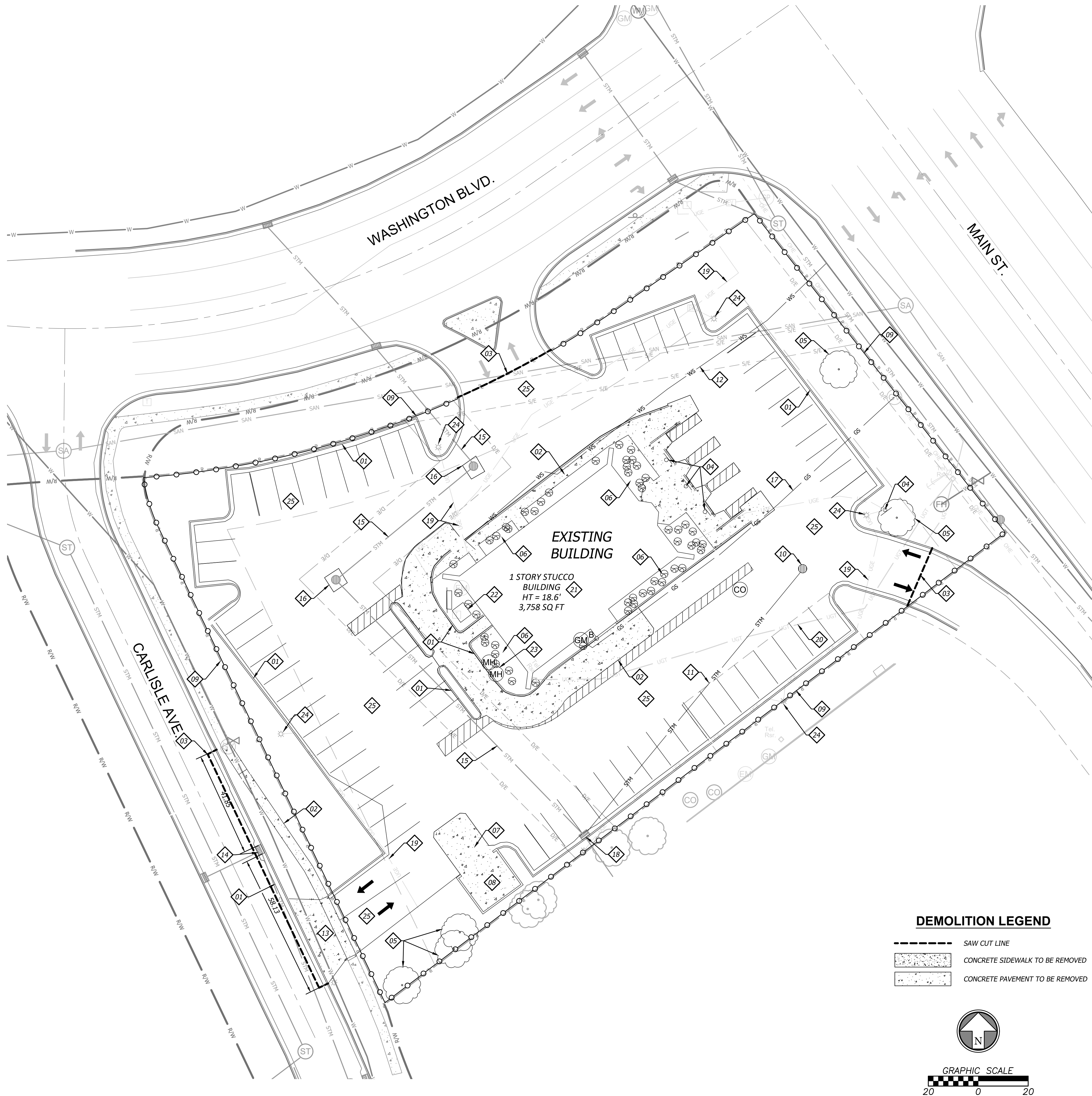


Apr 14, 2021 - 2:49pm Plotted By: travis.gerber V:\025800-Panda Express - Master 2018\025800-18-Hamilton_OH\04-DWG\Eng\Sheet\025800-18-SPTS-DEMO.dwg Layout: Demo Plan



GENERAL NOTES

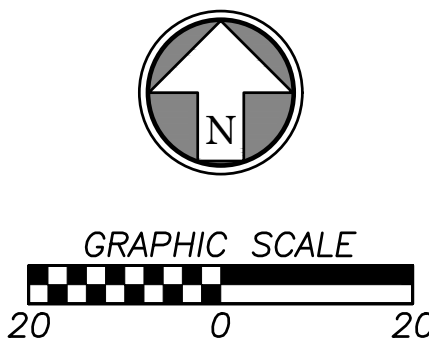
1. ALL MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF-SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL APPLICABLE LAWS AND REGULATIONS PERTAINING TO THE DISPOSAL OF CONSTRUCTION/DEMOLITION MATERIAL.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY.
3. RECYCLE AS MUCH WASTE MATERIAL AS POSSIBLE. DOCUMENT RECYCLED MATERIAL.
4. ALL SAWCUTS SHALL BE DONE WITH NEAT AND CLEAN EDGES. ALL SAW CUTS SHALL BE MADE AT THE NEAREST CONSTRUCTION JOINT JOINT TO THE DIMENSION SHOWN. DIMENSION SHOWN SHALL BE MINIMUM LIMITS OF REMOVAL.
5. THE CONTRACTOR SHALL REMOVE ANY AND ALL EXISTING DEBRIS WHICH IS ENCOUNTERED FROM THE EXISTING SITE. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, FOOTINGS, CONCRETE SLABS, CONDUITS, GRANULAR SUBGRADE, UTILITY SERVICES, AND/OR UNSUITABLE STRUCTURAL FILL MATERIAL AS DETERMINED BY THE OWNER'S ENGINEER. THE COST FOR THESE REMOVALS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. SAID DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF PROPERLY OFF-SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYMENT OF ANY PERMITS FOR DEMOLITION THAT PERTAIN TO THIS PROJECT.
7. THE CONTRACTOR SHALL ENSURE THAT ANY STRUCTURES TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OPERATIONS SHALL BE REPAIRED TO MEET CURRENT CODE, AT NO ADDITIONAL COST TO THE OWNER.
8. ALL EXISTING UTILITIES REMOVED DURING CONSTRUCTION SHALL HAVE THEIR TRENCHES BACKFILLED WITH STRUCTURAL FILL AND BE COMPACTED TO THE REQUIREMENTS FOR STRUCTURAL FILL.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING ALL TEMPORARY PIPE, MANHOLES, PUMPS, ETC. TO ENSURE CONTINUOUS SERVICE FOR STORM AND SANITARY SEWERS. BY-PASS PUMPING SHALL BE CLOSELY MONITORED, BY THE CONTRACTOR, AT ALL TIMES.
10. ALL REMOVALS REQUIRED TO PROPERLY PERFORM THE WORK (WHETHER SHOWN ON THE PLANS OR NOT) SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. ALL PROTECTION FENCING SHALL BE INSTALLED PRIOR TO DEMOLITION/CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROVIDE A 6-FOOT SECURITY FENCE AROUND THE ENTIRE JOB SITE WITH LOCKED GATED ACCESS POINTS, IF REQUIRED BY THE OWNER OR THE CITY.

DEMOLITION NOTES

- 01 REMOVE AND DISPOSE OF EXISTING CURB.
- 02 REMOVE AND DISPOSE OF CONCRETE SIDEWALK.
- 03 SAW CUT EXISTING PAVEMENT TO FULL DEPTH AND CLEAN EDGE.
- 04 REMOVE AND DISPOSE OF EXISTING SIGN, FOOTING, ELECTRICAL SERVICE AND CONDUIT.
- 05 CONTRACTOR TO COORDINATE WITH LANDSCAPE COMPANY ON REMOVAL AND RELOCATION OF EXISTING TREES.
- 06 REMOVE AND DISPOSE OF EXISTING LANDSCAPE AREA.
- 07 REMOVE AND DISPOSE OF EXISTING CONCRETE PAD.
- 08 REMOVE AND DISPOSE OF EXISTING FENCE AND TRASH ENCLOSURE.
- 09 INSTALL PROTECTION FENCING.
- 10 REMOVE AND DISPOSE OF EXISTING CATCH BASIN.
- 11 REMOVE AND DISPOSE OF EXISTING 12" CPP
- 12 REMOVE AND DISPOSE OF EXISTING WATER SERVICE LINE, METER PIT, AND CAP AT MAIN. RETURN METER TO CITY.
- 13 REMOVE AND DISPOSE OF EXISTING CONCRETE DRIVE APPROACH.
- 14 CONTRACTOR TO MODIFY EXISTING CURB INLET. SEE STORM PLAN SHEET.
- 15 LEAVE STORM PIPE IN PLACE - DO NOT REMOVE.
- 16 SEE UTILITY PLAN FOR AREA INLET REVISIONS.
- 17 REMOVE AND DISPOSE OF EXISTING GAS SERVICE LINE AND METER BACK TO MAIN. CAP LINE AT CONNECTION POINT. COORDINATE REMOVAL WITH GAS COMPANY.
- 18 LEAVE EXISTING CURB INLET IN PLACE - DO NOT REMOVE.
- 19 REMOVE AND DISPOSE OF EXISTING ELECTRICAL SERVICE LINE AND CONDUIT. COORDINATE REMOVAL WITH UTILITY COMPANY.
- 20 REMOVE AND DISPOSE OF UNDERGROUND TELEPHONE LINE AND CONDUIT. COORDINATE REMOVAL WITH UTILITY COMPANY.
- 21 REMOVE AND DISPOSE OF EXISTING BUILDING.
- 22 EXISTING TRANSFORMER TO BE REMOVED. COORDINATE REMOVAL WITH UTILITY COMPANY.
- 23 REMOVE AND DISPOSE OF EXISTING GREASE INTERCEPTOR. CONTRACTOR TO LOCATE, REMOVE AND DISPOSE OF EXISTING SANITARY SERVICE LINE(S) BACK TO MAIN AND CAP.
- 24 RELOCATE AND REUSE EXISTING LIGHT POLE AND BASE. SEE ELECTRICAL PLANS FOR NEW LOCATIONS.
- 25 REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

DEMOLITION LEGEND

- SAW CUT LINE
- CONCRETE SIDEWALK TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED



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REVISIONS:

ISSUE DATE:

1ST	SITE PLAN REVIEW	02-16-21
2ND	PERMIT/BID SET	04-09-21

DRAWN BY:

PANDA PROJECT #: S8-22-D8193
PANDA STORE #: -
ARCH PROJECT #: 20044.021



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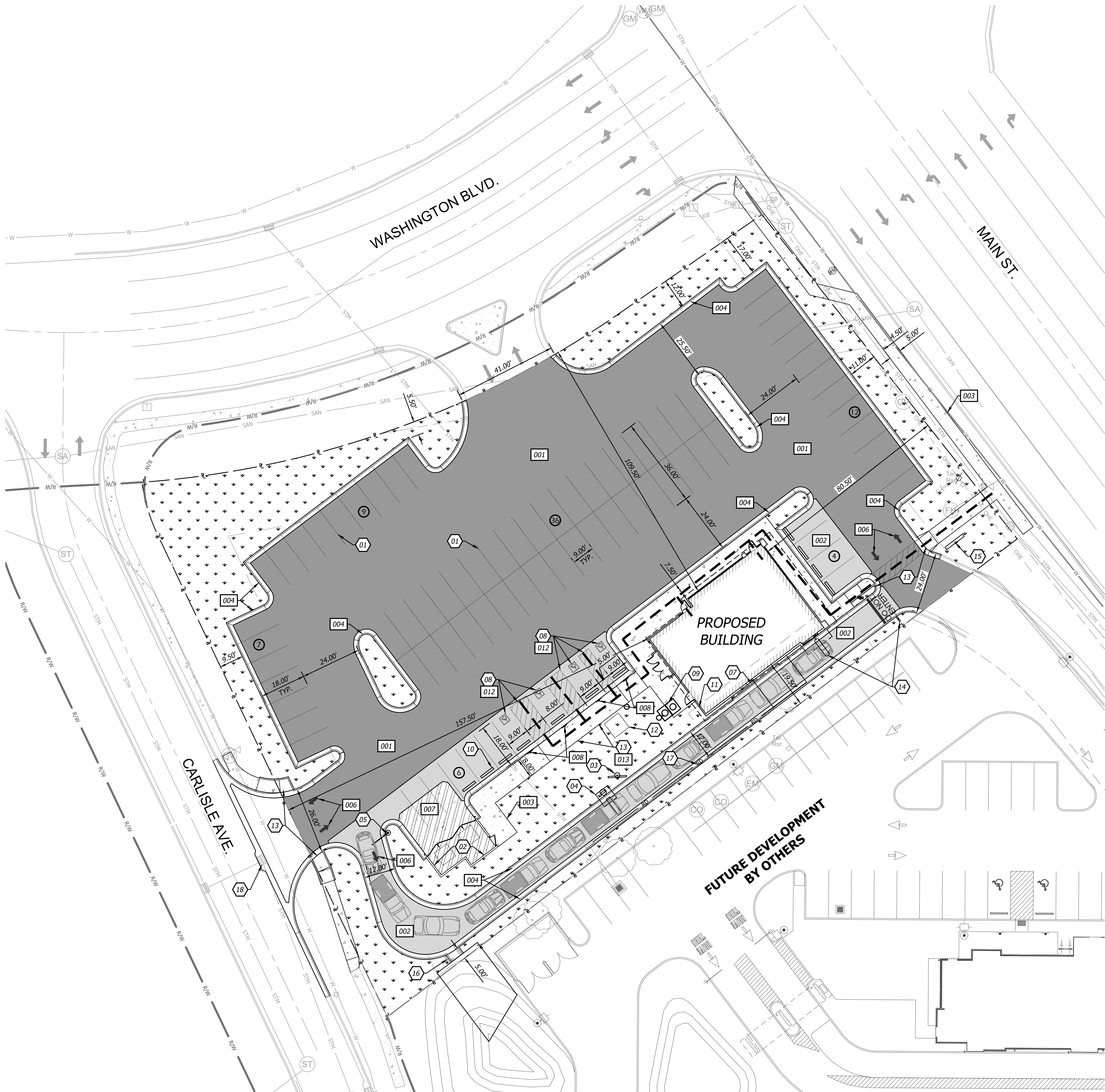
DEMOLITION PLAN

C0.3

TRUE WARM & WELCOME 2300 R5

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Apr 14, 2021 - 2:49pm. Plotted By: Invisioarchitect
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SITE DATA	
TOTAL FLOOR AREA:	2,300 SQ FT
PROPOSED SITE AREA:	1.225 ACRES
DISTURBED AREA:	1.225 ACRES

PARKING DATA
CITY REQUIREMENTS- RESTAURANT
1 SPACE PER FOR EACH 150 GROSS SQUARE FEET FLOOR AREA

STALLS REQUIRED	16
TOTAL STALLS PROVIDED	74
STANDARD STALLS PROVIDED	70
ADA ACCESSIBLE STALLS PROVIDED	4

STACKING PROVIDED	12
-------------------	----

SETBACKS	
FRONT	25
BACK	25
SIDE	NONE

ZONING CLASSIFICATION:

B-2 COMMUNITY BUSINESS

PLANNED LANDUSE:

B-2 COMMUNITY BUSINESS

DEVELOPER INFORMATION

PANDA EXPRESS, INC
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ROSEMEAD, CA 97770
PHONE: 626.799.9898

CONSTRUCTION NOTES

- LEAD FREE, WATER-BORNE EMULSION BASED WHITE TRAFFIC PAINT FOR PARKING LOT STALL STRIPING (TYP.).
- DUMPSTER AND SCREENING ENCLOSURE. SEE ARCHITECT'S PLANS
- MENU BOARD. SEE ARCHITECT'S PLANS
- SPEAKER BOX. SEE ARCHITECT'S PLANS
- DRIVE THRU CLEARANCE BAR. SEE ARCHITECT'S PLANS
- NOT USED
- BACK OF CURB ALONG DRIVE-THRU, ADJACENT TO BUILDING SHALL EXTEND BACK TO FOOTING
- ADA PARKING AREA. 2% MAXIMUM SLOPE IN ANY DIRECTION.
- 1000 GALLON GREASE INTERCEPTOR
- RUBBER WHEEL STOPS
- GAS METER LOCATION
- TRANSFORMER LOCATION
- PROPOSED ADA RAMPS
- DO NOT ENTER/THANK YOU SIGN. SEE ARCHITECT'S PLANS
- MONUMENT SIGN. SEE ARCHITECTS PLANS
- PROPOSED DRAINAGE FLUME
- ROOF DRAIN PIPE SYSTEM
- MODIFY EXISTING STORM SEWER TOP. SEE SHEET C6.5

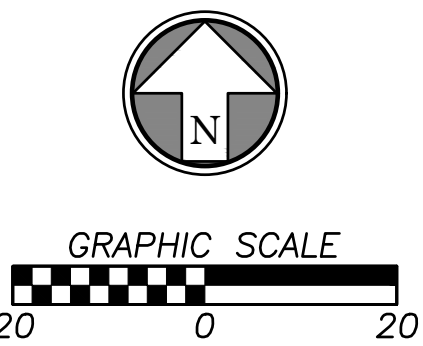
DETAILS

SEE CONSTRUCTION DETAILS - SHEETS C6.0-C6.3

- | | |
|-----|--|
| 001 | ASPHALT PAVEMENT |
| 002 | CONCRETE PAVEMENT |
| 003 | CONCRETE SIDEWALK |
| 004 | CONCRETE CURB & GUTTER |
| 006 | DIRECTIONAL ARROW |
| 007 | CONCRETE DUMPSTER PAD |
| 008 | ADA PARKING STALL SIGNAGE |
| 012 | ADA PARKING STALL STRIPING |
| 013 | "TYPE C" PRIVATE SIDEWALK RAMP (ADA COMPLIANT) |

SITE LEGEND

- | | |
|--|------------------------|
| | PROPOSED BUILDING |
| | ASPHALT PAVEMENT |
| | CONCRETE PAVEMENT |
| | CONCRETE DUMPSTER PAD |
| | CONCRETE SIDEWALK |
| | STANDARD CURB & GUTTER |
| | DRY CURB & GUTTER |
| | ZERO HEIGHT CURB |
| | TRANSITION CURB |
| | ACCESSIBLE ADA ROUTE |
| | BUILDING SETBACK LINE |
| | PARKING STALL COUNT |



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PANDA STORE #: -

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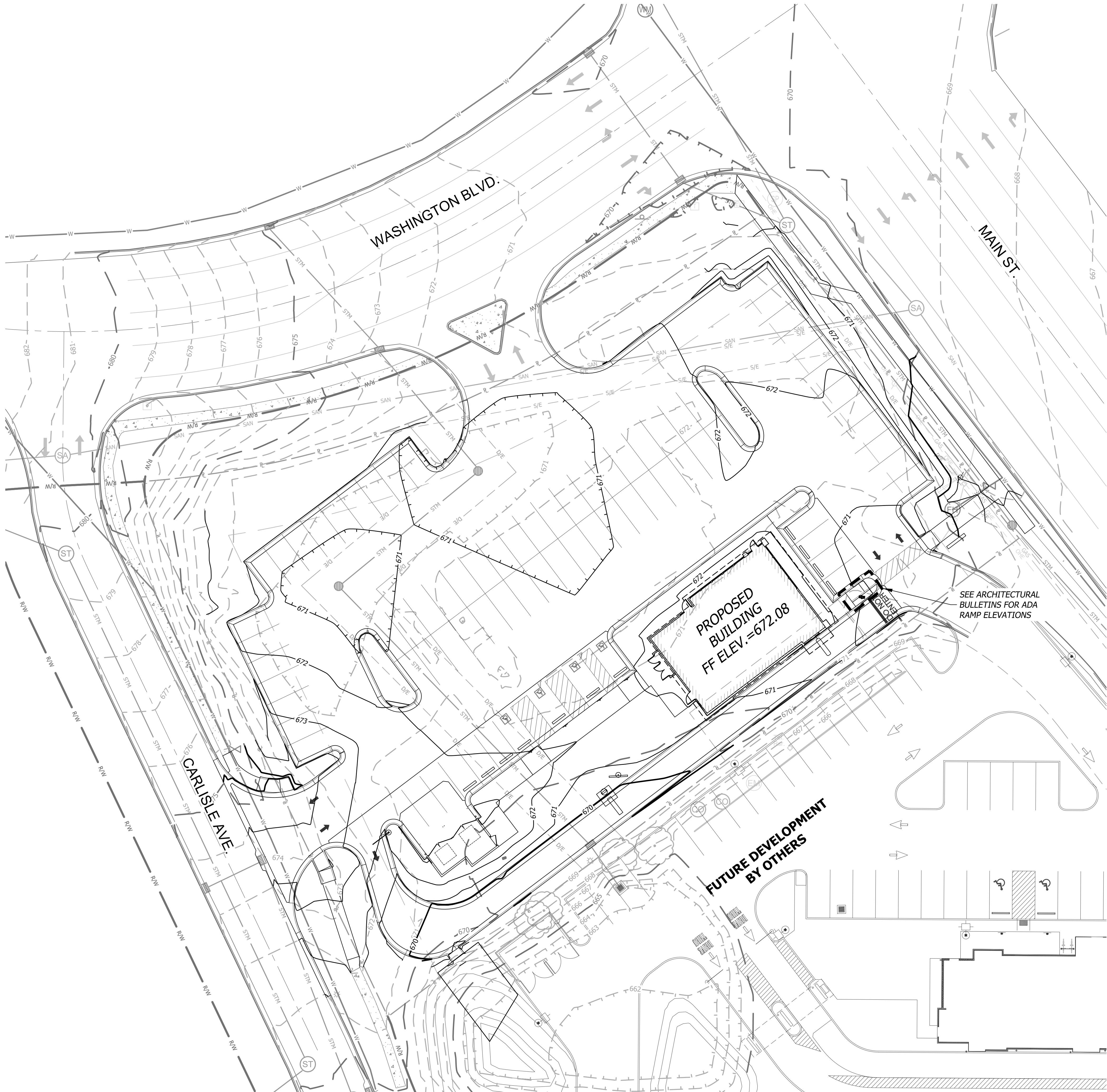
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SITE PLAN

C1.0

TRUE WARM & WELCOME 2300 R5

May 12, 2021 - 1:33pm Plotted By: terracon\spider VA\026820-Panda Express - Master 2018\026820_18-Hamilton_OH\04-DWG\Exp Sheet\026800_18-SUTS-CRAD.dwg Layout: Grad Plan

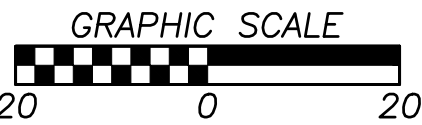
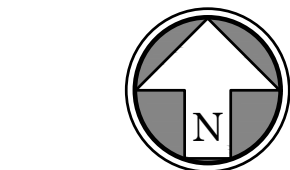


GRADING NOTES

- Contractor shall obtain a copy of the Geotechnical Engineering Report, prepared by Terracon Consultants, Inc. (Dated 11/10/20), for the project and satisfy himself as to the existing conditions and recommendations contained in the report.
- As discussed in the Geotechnical Report, over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.
- Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.
- Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Ohio. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections in the SWPPP document maintained by the Contractor.
- All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.
- All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site.
- All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
- All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.
- Prior to placing any concrete or asphalt pavement the contractor shall perform a proof roll of the pavement sub-grade with a fully loaded tandem axle dump truck. The proof roll shall be conducted in the presence of the Engineer and the on-site geotechnical representative. Areas that display rutting or pumping that are unsatisfactory to the engineer shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or quicklime.
- Finished grades shall not be steeper than 3:1.
- All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.
- A 2.0% maximum cross slope shall be maintained on all pedestrian sidewalks and paths.

GRADING LEGEND

- 980 — FINISH GRADE MAJOR CONTOURS
- 982 — FINISH GRADE MINOR CONTOURS
- - 980 - - EXISTING GRADE MAJOR CONTOURS
- - 982 - - EXISTING GRADE MINOR CONTOURS
- ==== PROPOSED STORM SEWER LINE
- R - PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE



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NO.	REVISION	DATE
1	CITY COMMENTS	05.10.21

ISSUE DATE:

1ST	SITE PLAN REVIEW	02-16-21
2ND	PERMIT/BID SET	04-09-21

DRAWN BY: WTG

PANDA PROJECT #: S8-22-D8193

PANDA STORE #: -

ARCH PROJECT #: 20044.021



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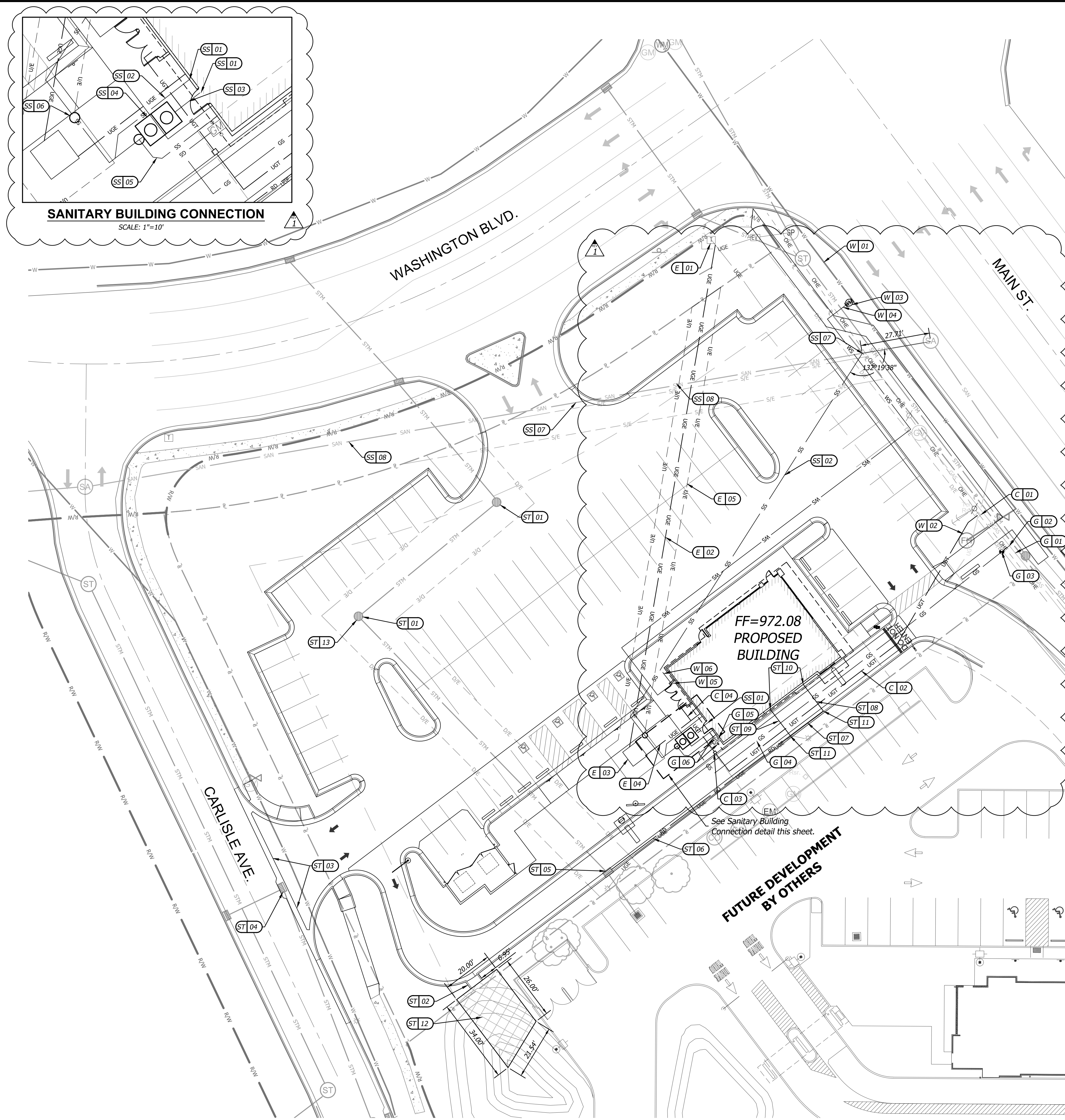
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HAMILTON, OH 45013

GRADING PLAN

C3.0

TRUE WARM & WELCOME 2300 R5

May 12, 2021 - 2:50pm Plotted By: trevor.spickler V:\026800-Panda Express - Master 2018\026800_18-Hamilton_OH\04-DWG\Eng Sheet\026800_18-SUTS-UTL.dwg Layout: UTL Plan



- X 00 CONSTRUCTION NOTES**

W - WATER SERVICE INFORMATION

 - EXISTING WATER MAIN (12" DUCTILE IRON)
 - EXISTING FIRE HYDRANT
 - INSTALL CURB BOX PER DETAIL ON SHEET C6.4.
 - INSTALL 2" REDUCED PRESSURE BACKFLOW PREVENTER; REF. MEP PLUMBING PLAN. INSTALL 244 LF OF 2" TYPE K COPPER OR CLASS 53 DUCTILE IRON DOMESTIC WATER SERVICE LINE.
 - CITY TO INSTALL 1.5" WATER SERVICE METER INSIDE OF BUILDING. CONTRACTOR TO COORDINATE INSTALLATION WITH EXTERIOR AND INTERIOR PLUMBING. REF. TO PLUMBING PLANS FOR CONNECTION TO INTERIOR PLUMBING.
 - INSTALL 5 LF OF 3/4" HDPE IRRIGATION STUB OFF SERVICE LINE BEFORE THE METER.

E - ELECTRIC SERVICE INFORMATION

 - EXISTING JUNCTION BOX STOP NEW CONDUIT 3-FT PRIOR TO EXISTING JUNCTION BOX.
 - CONTRACTOR TO INSTALL 203 LF CONDUIT FOR PRIMARY UNDERGROUND ELECTRIC SERVICE LINE FROM EXISTING SERVICE TO PROPOSED TRANSFORMER PAD. REF. ELECTRICAL PLAN. COORDINATE CONDUIT REQUIREMENTS WITH CITY OF HAMILTON ENGINEERING, CONTACT JIM MARSHALL (513-785-7221).
 - INSTALL PROPOSED TRANSFORMER PAD PER UTILITY STANDARDS. CITY SHALL PROVIDE AND INSTALL THE TRANSFORMER AND NEW PRIMARY WIRE.
 - CONTRACTOR TO INSTALL 70 LF CONDUIT FOR SECONDARY UNDERGROUND ELECTRIC SERVICE LINE FROM PROPOSED TRANSFORMER TO BUILDING; REF. ELECTRICAL PLAN. COORDINATE CONDUIT REQUIREMENTS WITH CITY OF HAMILTON ENGINEERING, CONTACT JIM MARSHALL (513-785-7221). EASEMENT TO BE PROVIDED FOR ELECTRICAL SERVICE AND TRANSFORMER.
 -

C - COMMUNICATION SERVICE INFORMATION

 - EXISTING COMMUNICATIONS PEDESTAL.
 - CONTRACTOR TO INSTALL 154 LF OF COMMUNICATION CONDUIT FROM THE EXISTING PEDESTAL; COORDINATE W/ COMMUNICATION UTILITY PROVIDER.
 - REFER TO ELECTRICAL SITE PLAN FOR TELECOM EQUIPMENT; INSTALL TELECOM VAULT IN GRASS BEHIND CURB AND GUTTER.
 - CONTRACTOR TO INSTALL 25 LF OF COMMUNICATION CONDUIT FROM THE TELECOM VAULT TO THE BUILDING; REF. ELECTRICAL PLAN FOR BUILDING CONNECTION DETAIL.
 -

G - GAS SERVICE INFORMATION

 - EXISTING GAS LINE (SIZE UNKNOWN).
 - 2" GAS SERVICE LINE TAP TO BE INSTALLED BY CITY STAFF.
 - 2" GAS CURB VALVE TO BE INSTALLED BY CITY STAFF.
 - INSTALL 172 LF OF 2" GAS SERVICE LINE. AN OPERATOR QUALIFIED CONTRACTOR MUST INSTALL THE GAS SERVICE FROM CURB VALVE TO THE METER RISER AND FLANGE.
 - GAS SERVICE METER TO BE INSTALLED BY CITY STAFF. CONTRACTOR TO INSTALL GAS RISER, METER VALVE AND PLUG VALVE. THE METER VALVE AT THE GAS RISER MUST BE A NORDSTROM IRON FLANGED PLUG VALVE. THE GAS RISER AND METER FLANGE MUST BE WELDED. SEE DETAIL ON SHEET C6.3.
 - CONTRACTOR TO INSTALL TWO FLANKING BOLLARDS ADJACENT TO GAS METER. COORDINATE WITH CITY STAFF FOR FINAL LOCATIONS.
 -

SS - SANITARY SEWER INFORMATION

 - CONNECT 6" SDR-26 PVC TO BUILDING FOR SANITARY SEWER SERVICE.
 - INSTALL 6" SDR-26 PVC @ 2.0% SLOPE MIN.
 - INSTALL 6" SDR-26 PVC @ 2.0% SLOPE MIN. INTO GREASE INTERCEPTOR.
 - INSTALL GREASE INTERCEPTOR; REF. PLUMBING PLAN SPECIFICATIONS. SEE DETAIL SHEET C6.5.
 - INSTALL 2" SDR-35 PVC VENT PIPE
 - INSTALL CLEANOUT. SEE DETAIL ON SHEET C6.2.
 - CONNECT TO EXISTING SEWER MAIN WITH FACTORY WYE FITTING; CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. HIGHEST ANTICIPATED FL ELEV = 664.17, CROWN = 665.12.
 - EXISTING SEWER MAIN.
 -

ST - STORM SEWER INFORMATION

 - EXISTING STORM SEWER SYSTEM. ADJUST EXISTING GRATES TO PROPOSED FINISHED GRADE.
 - CONSTRUCT PCC FLUME WITH 5' THROAT. SEE DETAIL SHEET C6.1
 - CONSTRUCT 2" WIDE VALLEY GUTTER ACROSS ENTRANCE. SEE DETAIL 005 ON SHEET C6.0.
 - REMOVE EXISTING CURB INLET TOP AND REPLACE WITH ODOT CATCH BASIN NO. 6 GRATE AND FRAME. ADJUST TO MATCH FINISHED GRADE. SEE DETAIL SHEET C6.5
 - CONNECT PROPOSED ROOF DRAIN PIPE INTO EXISTING CI BOX USING EXISTING OPENING FROM REMOVED 12" CPP. PROVIDE WATER TIGHT CONNECTION.
 - INSTALL 89 LF OF 8" HDPE ROOF DRAIN PIPE @ 1.0% MIN. SLOPE.
 - INSTALL 16.5 LF OF 8" HDPE ROOF DRAIN PIPE @ 1.0% MIN. SLOPE.
 - INSTALL 13.25 LF OF 8" HDPE ROOF DRAIN PIPE @ 1.0% MIN. SLOPE. CONTRACTOR TO ENSURE PROPER SEPARATION WITH PROPOSED UTILITIES.
 - INSTALL 13.25 LF OF 8" HDPE ROOF DRAIN PIPE @ 1.0% MIN SLOPE. CONTRACTOR TO ENSURE PROPER SEPARATION WITH PROPOSED UTILITIES.
 - CONNECT TO ROOF DRAIN AT BUILDING. SEE PLUMBING PLANS FOR LOCATIONS.
 - INSTALL 8" HDPE 90° BEND ELBOW FITTING OR 8"x8" HDPE TEE FITTING AS REQUIRED.
 - INSTALL 66.6 SY OF NORTH AMERICAN GREEN C350 VMAX PERMANENT TURF REINFORCEMENT MATTING. PLACE SEED AND FERTILIZER PRIOR TO INSTALLING MAT. SEE LANDSCAPE PLANS FOR SEED AND FERTILIZER SPECIFICATIONS.
 - INSTALL A FLEXSTORM PURE PERMANENT INLET PROTECTION FILTER BY ADS. CONTRACTOR TO COORDINATE DESIGN WITH ADS REPRESENTATIVES. PROVIDE ULTIMATE BYPASS RATE OF 2.07 CFS.
- UTILITY NOTES**
 - Contractor shall refer to all specifications, guidelines, and installation drawings from the respective utility companies for the installation of all service lines.
 - Contractor to ensure 6" minimum separation between utilities at crossings. Contractor to call civil if any conflicts between utilities are found.
 - All HDPE storm pipe shall be ADS N-12, or approved equal, meeting AASHTO M294, type S or ASTM F2306. The pipe shall have a smooth interior and annular exterior corrugations. Pipe joints shall be jointed using a bell & spigot joint meeting AASHTO M252, AASHTO M294 or ASTM F2306. The joint shall be watertight according to the requirements of ASTM D3212 and gaskets shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.
 - Fittings for plastic pipe shall conform to AASHTO M252, AASHTO M294, or ASTM F2306. All fittings shall be dual wall fittings consistent with the ADS N-12 pipe watertight connections.
 - Peak water demand is 32 GPM.



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REVISIONS:	
△ CITY COMMENTS	05.10.21

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UTILITY PLAN

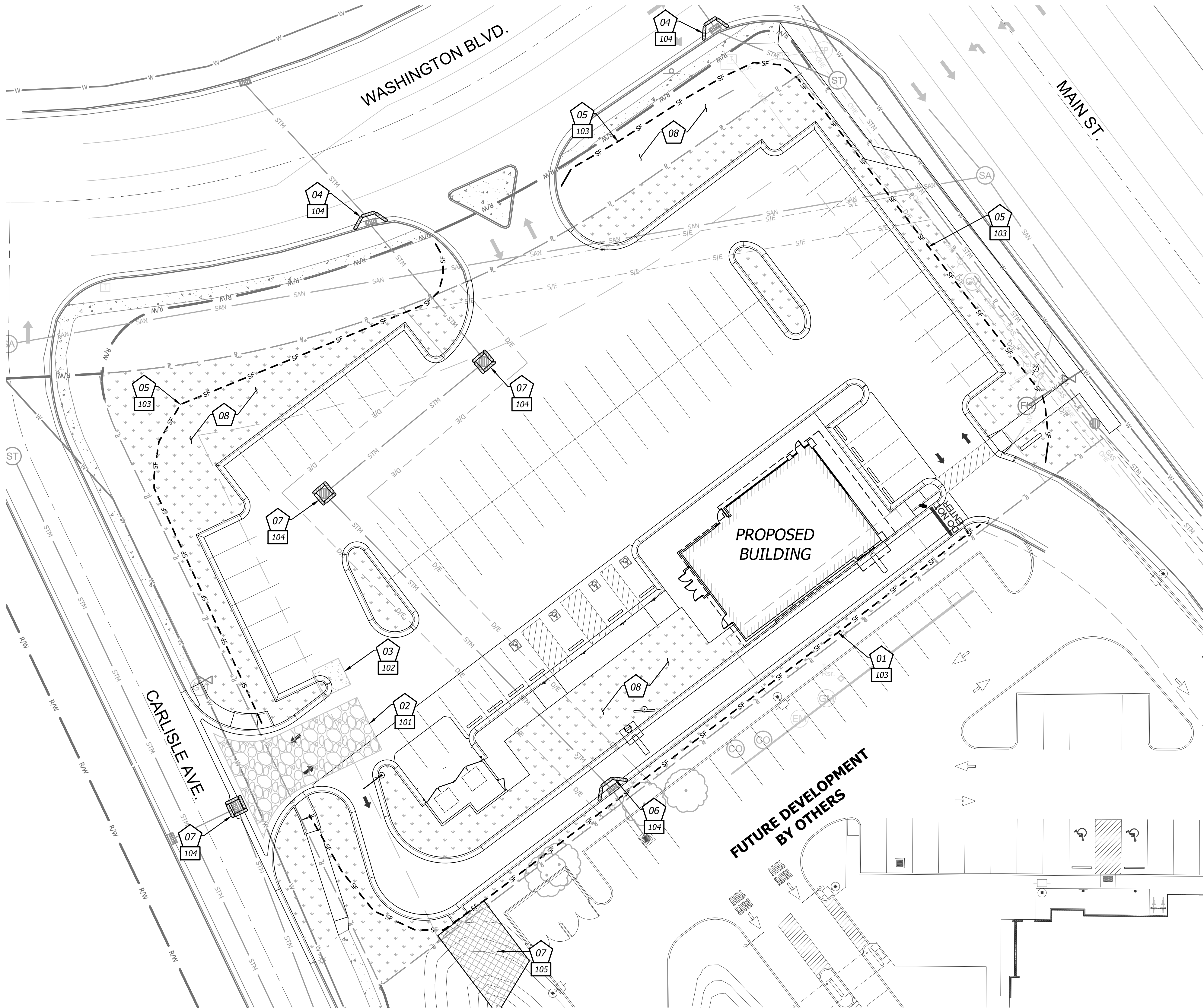
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GRAPHIC SCALE
20 0 20

May 12, 2021 — 1:24pm Plotted By: trevor.spickler V:\026820-Panda Express — Master 2018\026820_18-Hamilton_OH\04-DWG\Eng Sheet\026820_18-SUTS-FCS01.dwg Layout: Eros-Pre



EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE-CON)	A — Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	E	Place as shown on plan
		02	Construction Entrance & Staging Area	D	Place as shown on plan
		03	Concrete Wash-Out	D	Place as shown on plan
		04	Existing Inlet Protection	E	Place as shown on plan
Phase II (MID-CON)	B — After Stripping, Grubbing, & Mass Grading	05	Interior Silt Fence	E	Place as shown on plan
	C — After Utility Storm Sewer Construction	06	Storm Inlet Protection	D	Place as shown on plan
Phase III (POST-CON)	D — After Construction of Building and Parking Lot	07	Storm Inlet Protection/ Permanent Turf Reinforcement Mat	E N/A	Place as shown on plan
	E — Final Grading, Paving & Landscaping	08	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

- Prior to Land Disturbance activities, the contractor shall:
 - Delineate the outer limits of any natural stream corridor designated with construction fencing.
 - Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
 - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and sediment control plan.
- The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to:
 - The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has ceased for more than 14 days.
 - The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:
 - During active construction phases - at least once per week
 - During periods of inactivity - at least once per 14 days
 - After each rainfall event of 1/2 inch or more, within 24 hours of the rain event
 - The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be available for review by the regulatory authority.
 - The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for review by the regulatory authority.
- Unless otherwise noted in the plans, all seeding must conform to the Landscape Plans provided as part of this construction set. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over the entire disturbed area.
- The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site intended to be left undisturbed, a storm sewer, or an on-site drainage channel.
- The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the contractor shall install additional or alternate measures that provide effective control.
- Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place.
- Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law and immediate actions taken to contain them.
- Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay installation.
- Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After inspections, provide the City of Hamilton with reports and documentation.

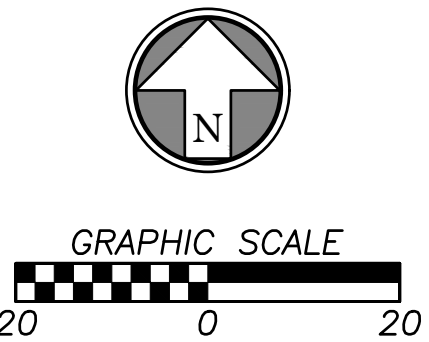
EROSION CONTROL LEGEND

- DISTURBED AREA (1.27 AC)
- SILT/SEDIMENT FENCE
- INLET PROTECTION FILTER BAGS
- CONSTRUCTION ENTRANCE
- STAGING AREA
- CONCRETE CLEANOUT
- FINAL SEEDING (SOD & OR LANDSCAPING)

000 DETAILS

- SEE EROSION CONTROL DETAIL SHEET C6.2 FOR THE FOLLOWING

- 101 TEMPORARY CONSTRUCTION ENTRANCE
- 102 CONCRETE WASH-OUT
- 103 FILTER FABRIC SILT FENCE
- 104 ROCK BAG DROP INLET BARRIER
- 105 PERMANENT TURF REINFORCING MAT



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REVISIONS:

△	CITY COMMENTS	05.10.21
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ISSUE DATE:

1ST	SITE PLAN REVIEW	02-16-21
2ND	PERMIT/BID SET	04-09-21

DRAWN BY: WTG

PANDA PROJECT #: S8-22-D8193

PANDA STORE #: -

ARCH PROJECT #: 20044.021



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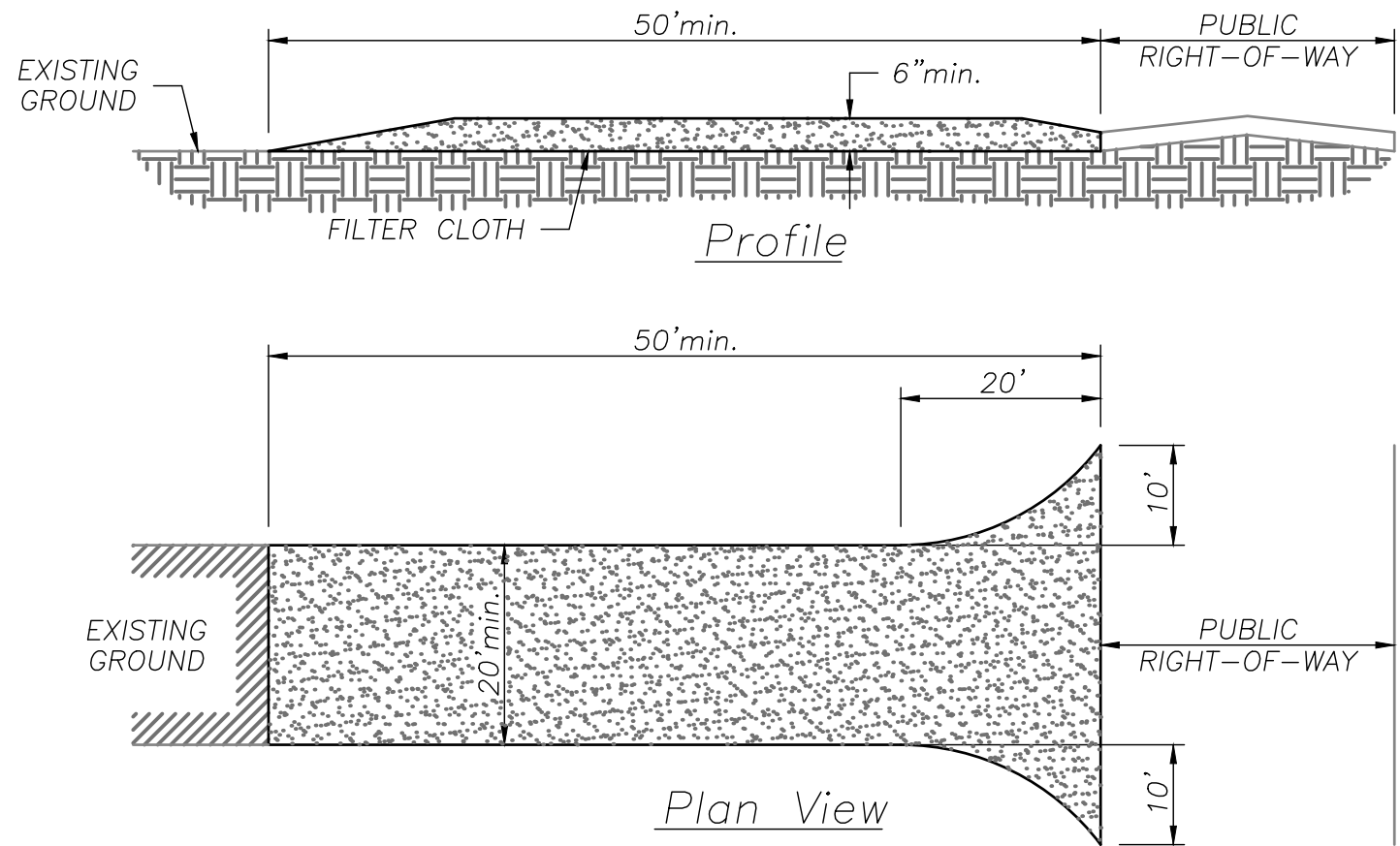
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EROSION CONTROL PLAN

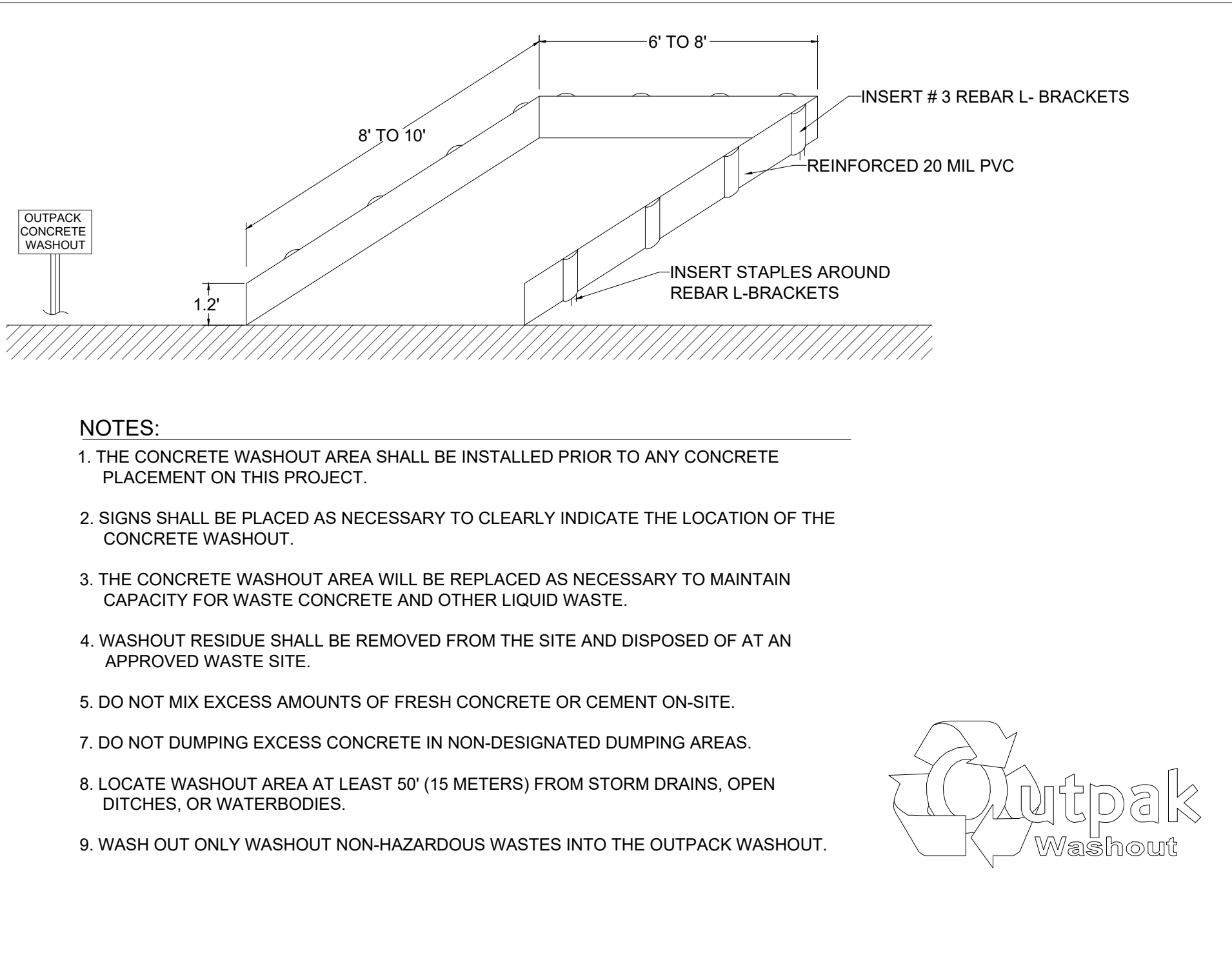
C5.0

TRUE WARM & WELCOME 2300 R5

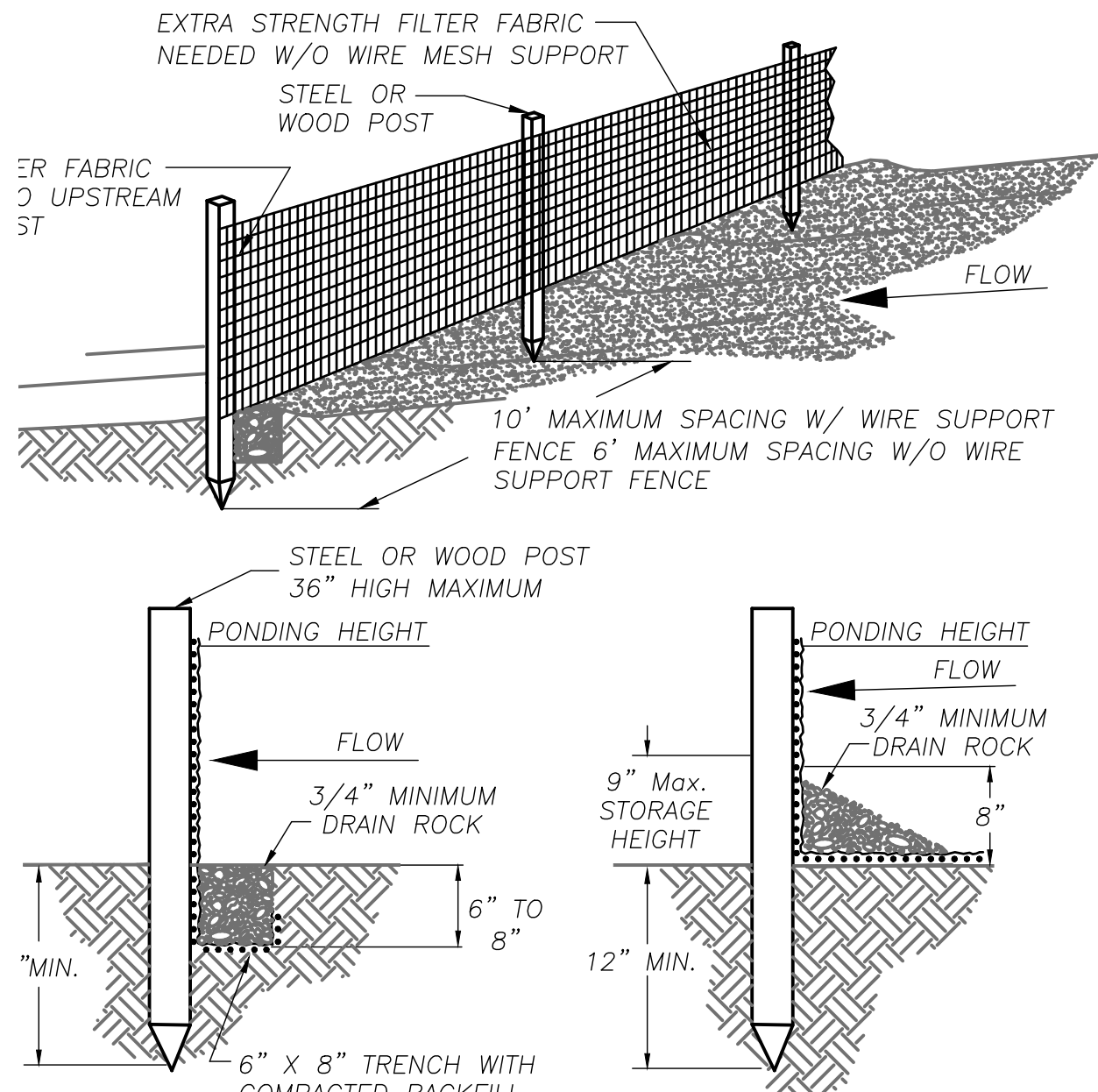
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- CONSTRUCTION SPECIFICATIONS:**
1. STONE SIZE – USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.
 2. LENGTH – AS REQUIRED, BUT NOT LESS THAN (50) FEET.
 3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
 4. WIDTH – TWENTY (20) FOOT MINIMUM, BUT 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 3:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-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 RIGHTS-OF-WAY. 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 AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



- NOTES:**
1. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THIS PROJECT.
 2. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
 3. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
 4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
 5. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
 7. DO NOT DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
 8. LOCATE WASHOUT AREA AT LEAST 50' (15 METERS) FROM STORM DRAINS, OPEN DITCHES, OR WATERBODIES.
 9. WASH OUT ONLY WASHOUT NON-HAZARDOUS WASTES INTO THE OUTPAK WASHOUT.

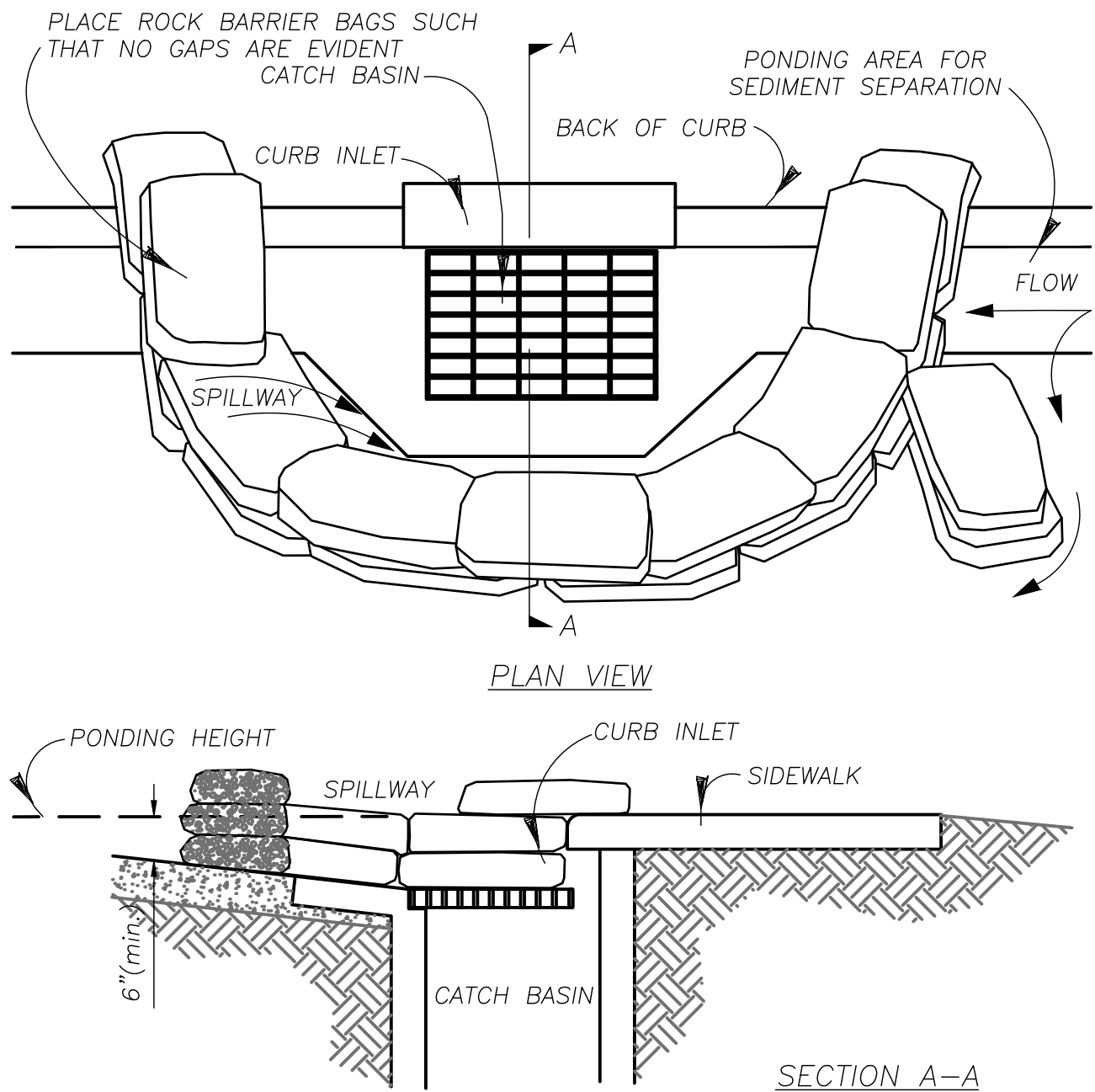


- NOTES:**
1. MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
 2. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
 3. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
 4. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

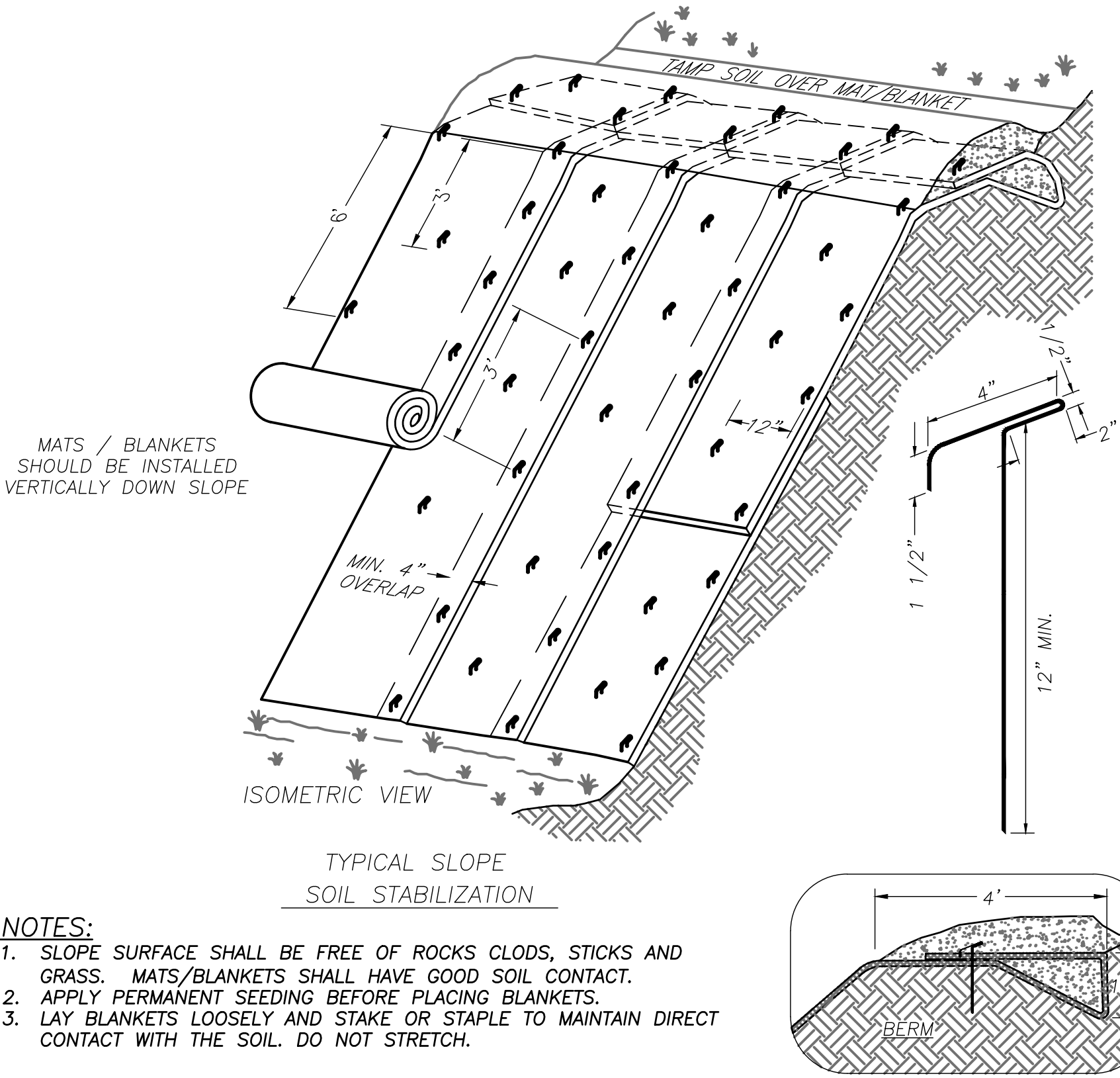
101
Not to Scale
Temporary Construction Entrance

102
Not to Scale
Concrete Washout

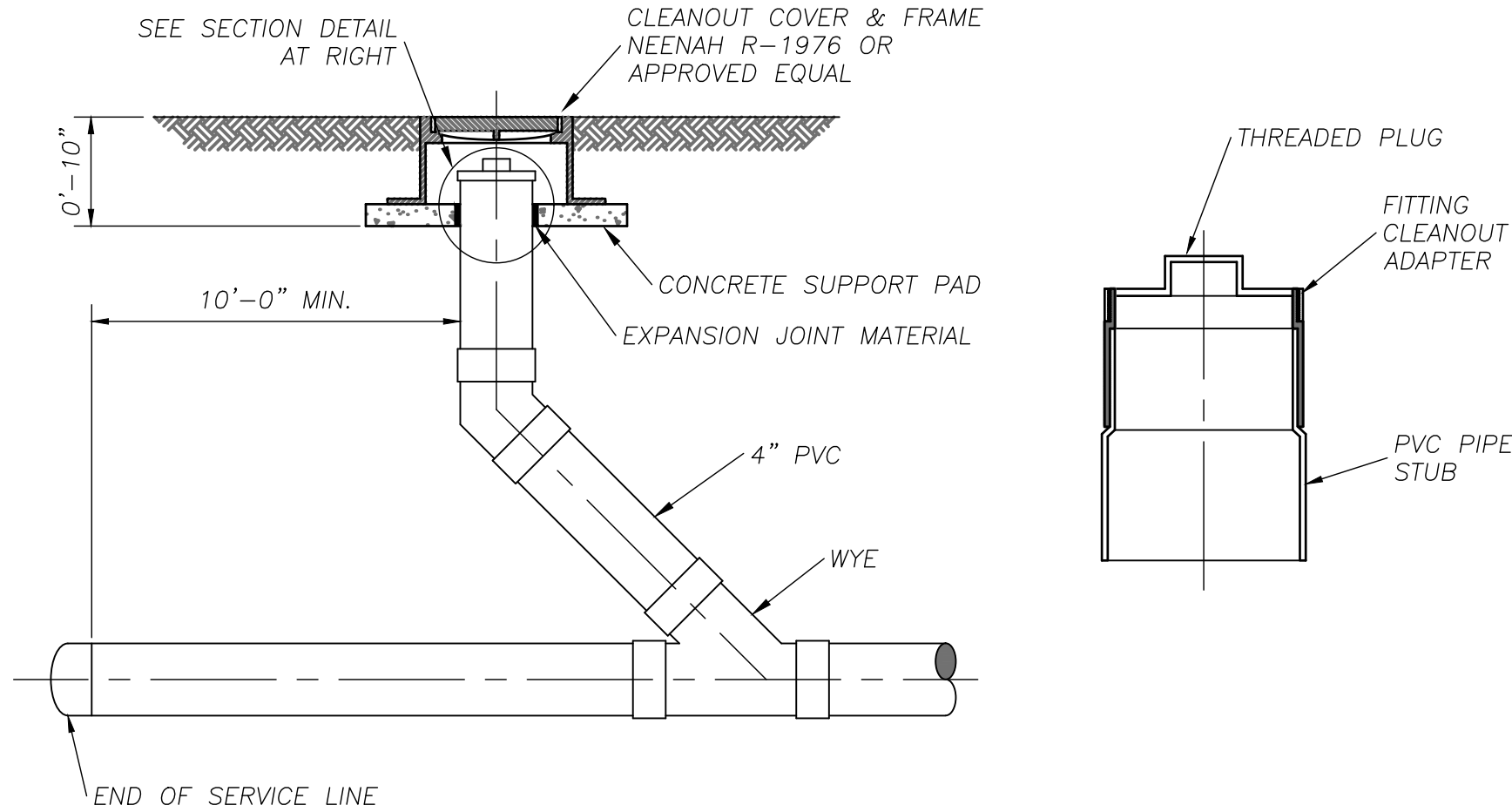
103
Not to Scale
Filter Fabric Silt Fence



- NOTES:**
1. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
 3. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
 4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY



- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.



202
Not to Scale
Cleanout

104
Not to Scale
Rock Bag Inlet Barrier

105
Not to Scale
Permanent Turf Reinforcement Mat

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2ND	PERMIT/BID SET	04-09-21

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PANDA PROJECT #: S8-22-D8193
PANDA STORE #: -
ARCH PROJECT #: 20044.021



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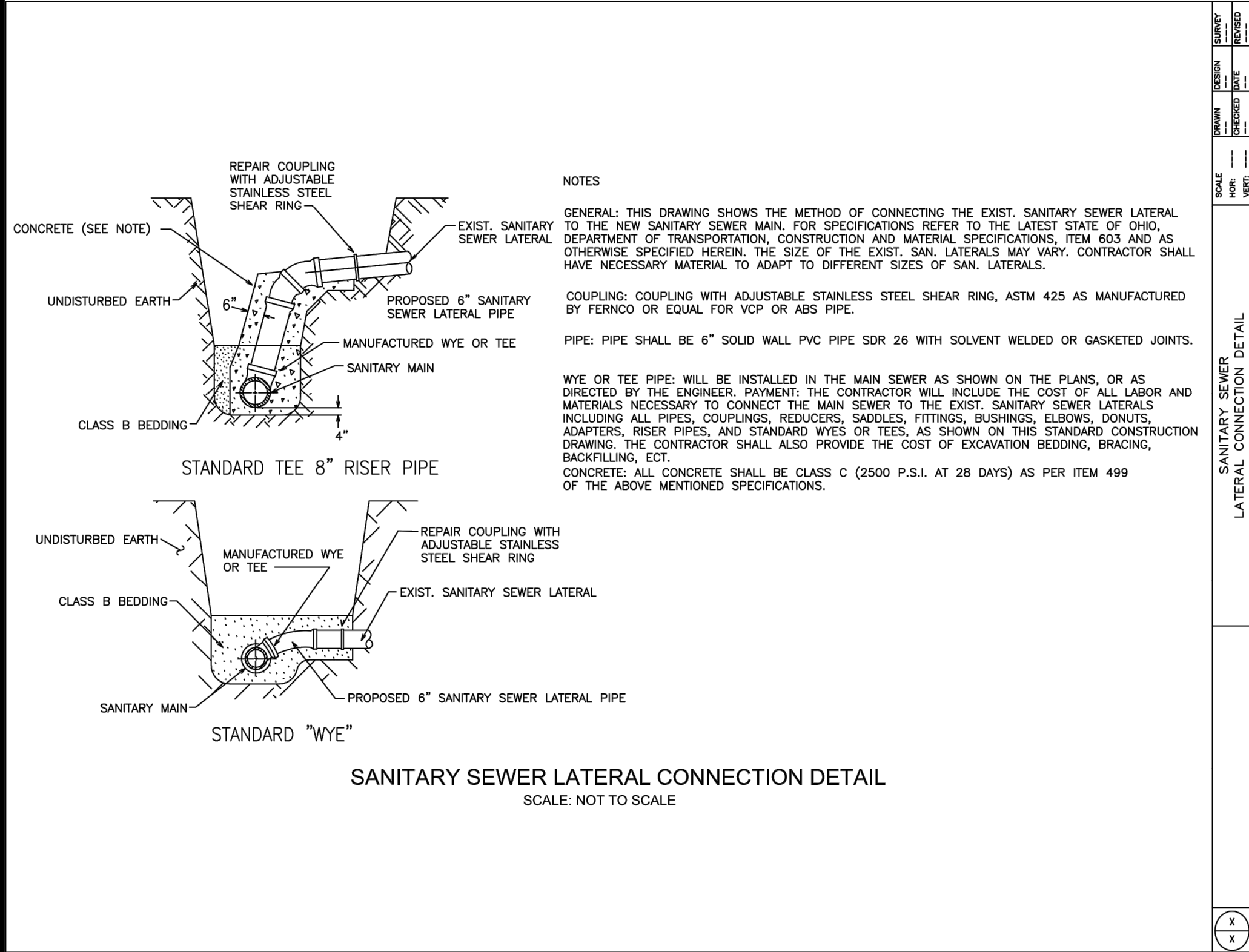
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CIVIL DETAILS 3

C6.2

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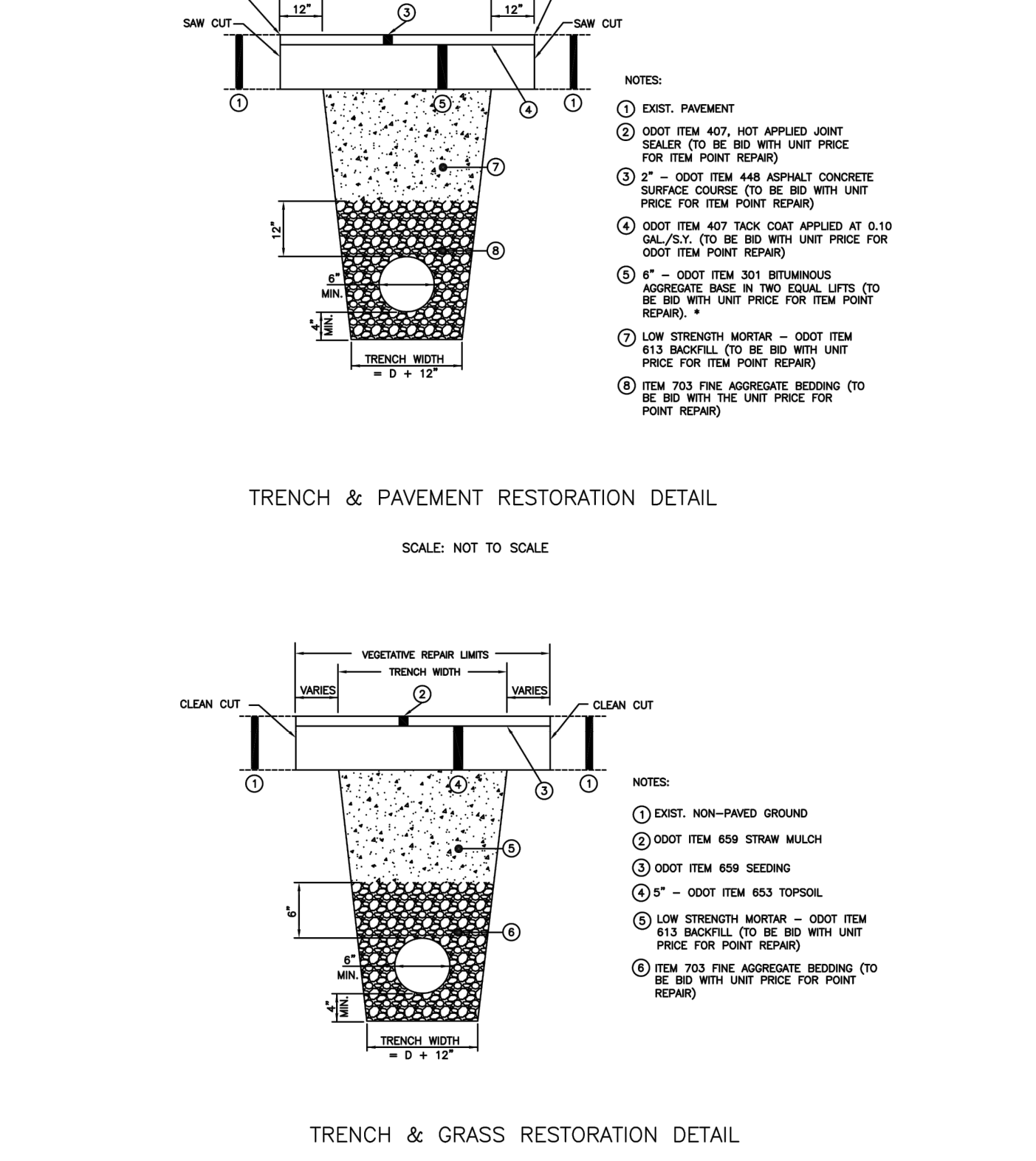
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204

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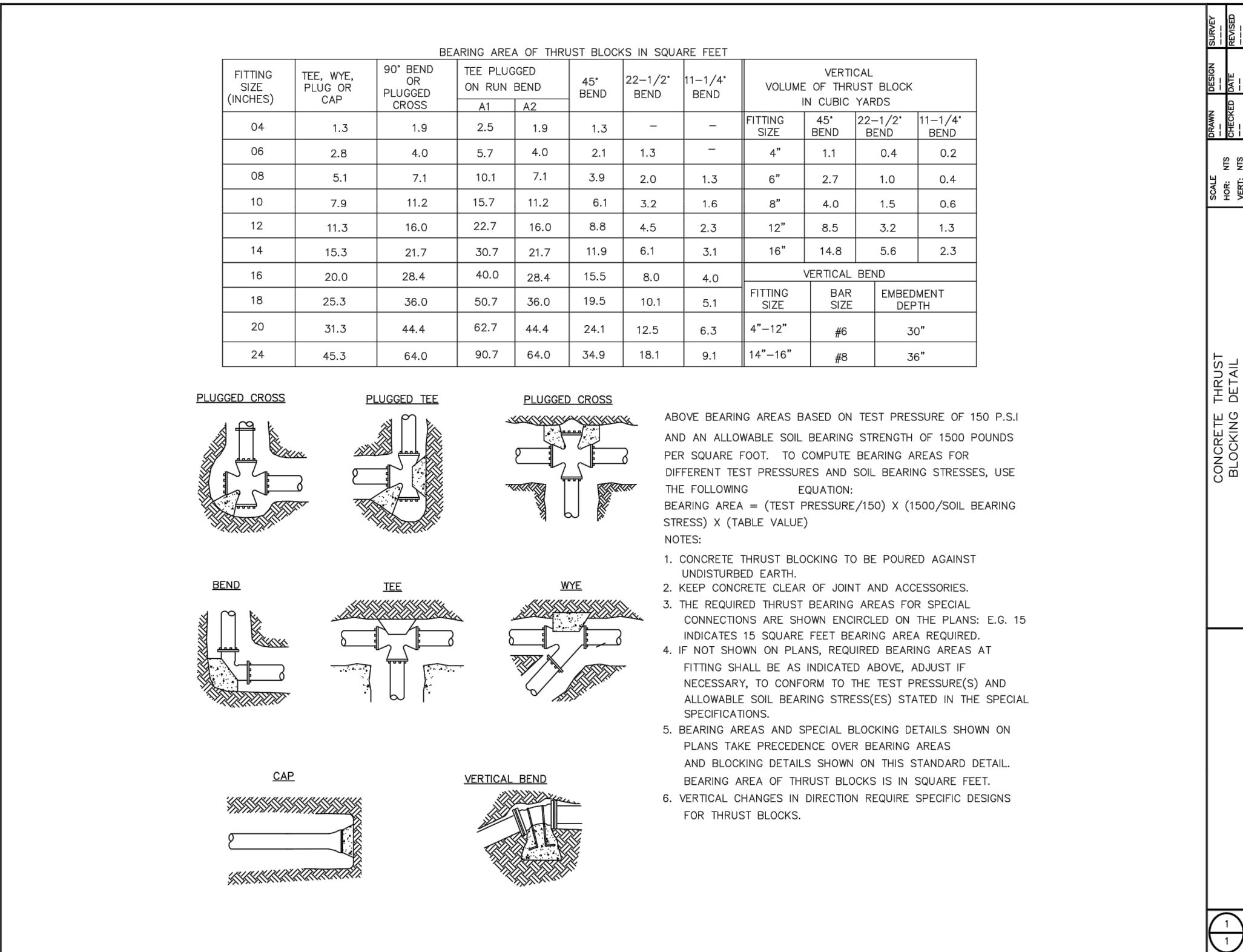
Sanitary Sewer Lateral Connection



205

Not to Scale

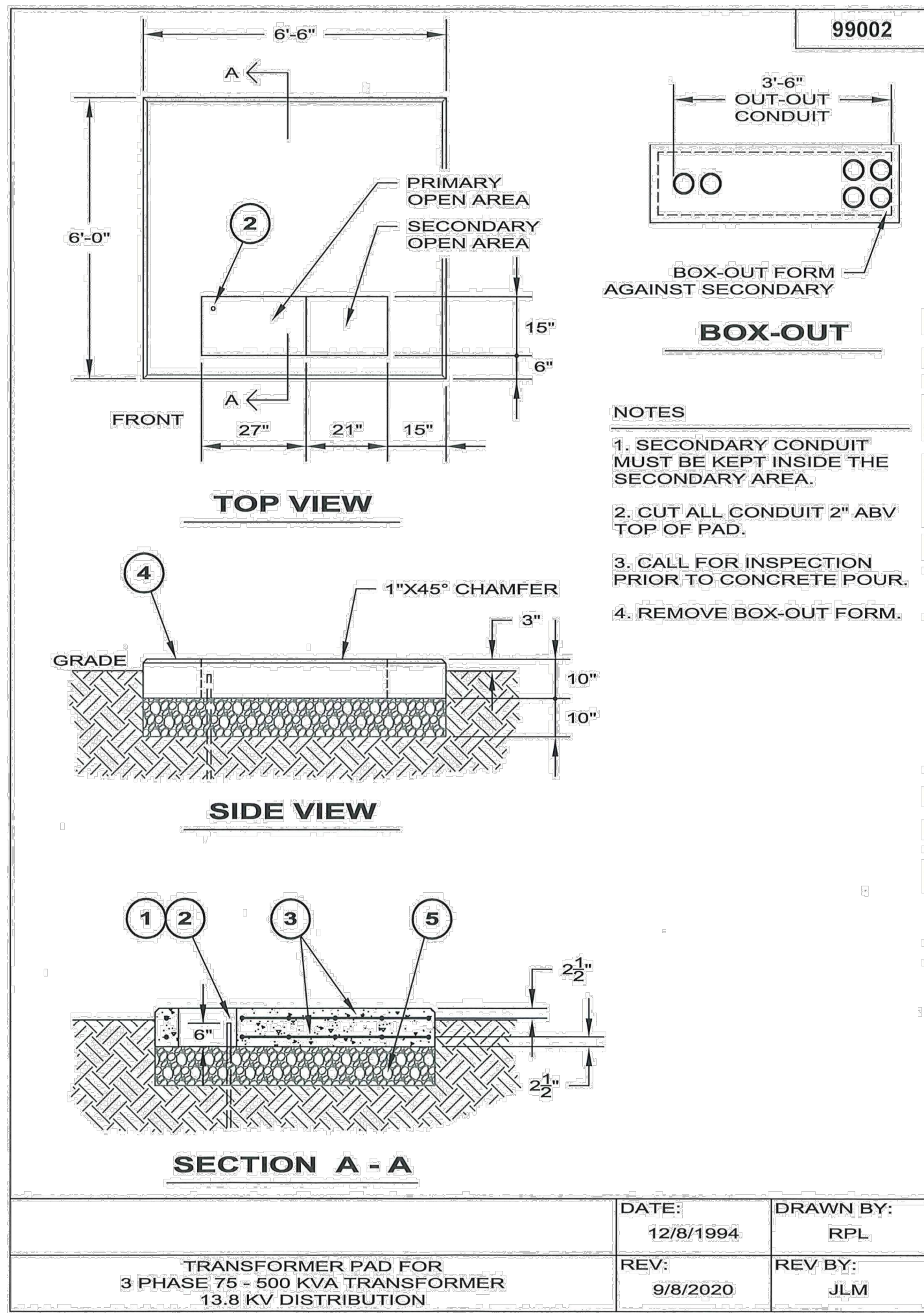
Sanitary Sewer Trench Restoration Detail



206

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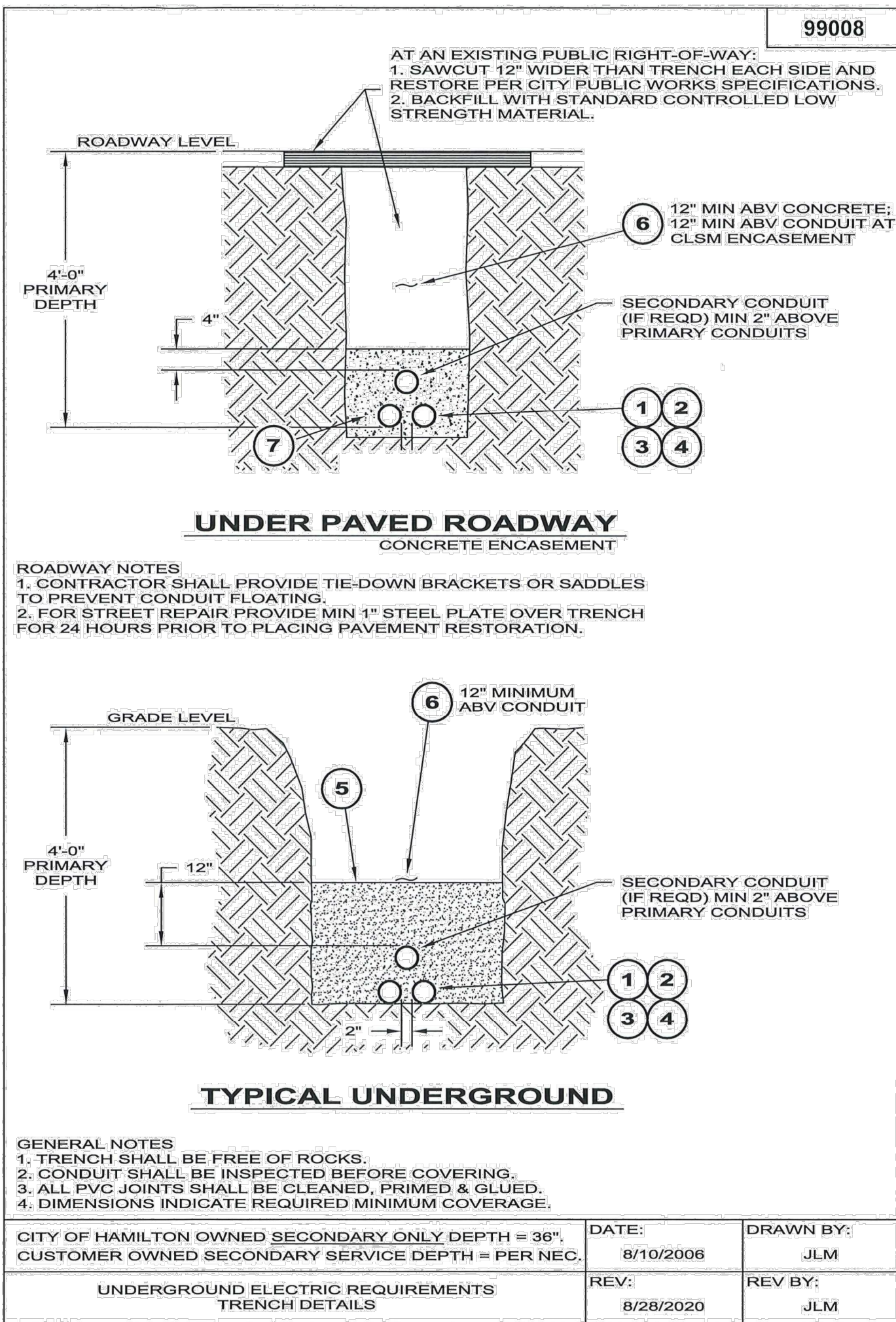
Conc. Thrust Block



X

Not to Scale

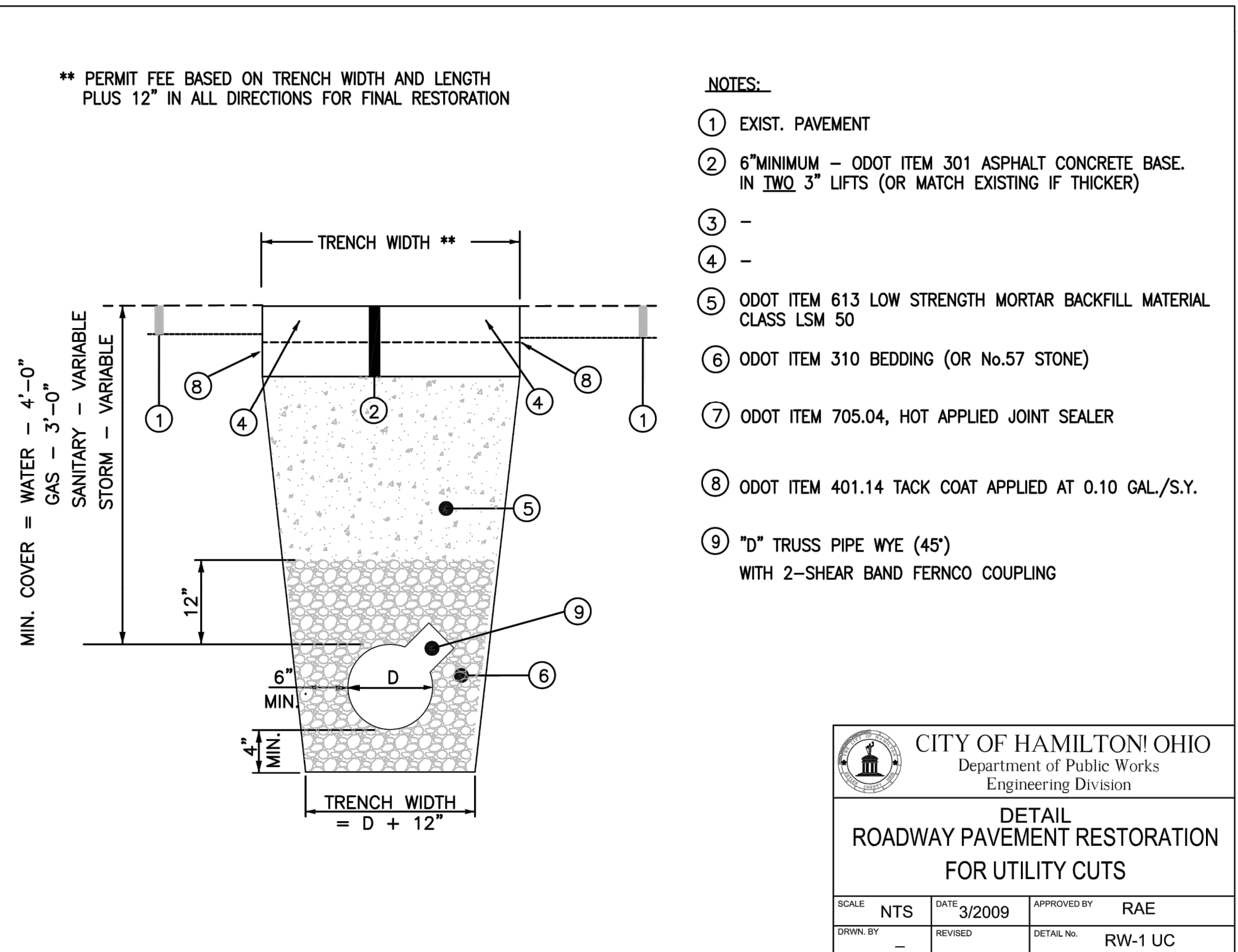
Transformer Pad



X

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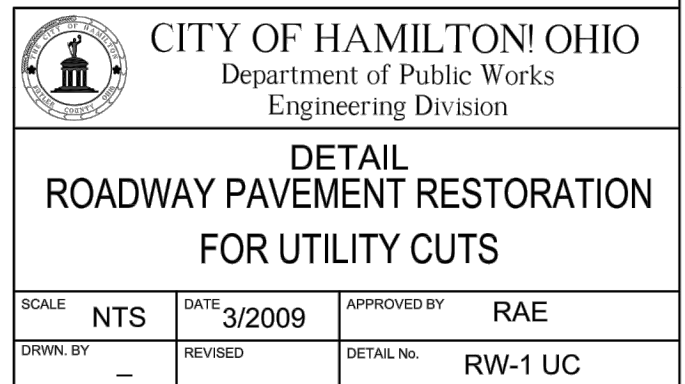
Typical Underground Conduit



X

Not to Scale

Trench Detail



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1ST SITE PLAN REVIEW 02-16-21
2ND PERMIT/BID SET 04-09-21

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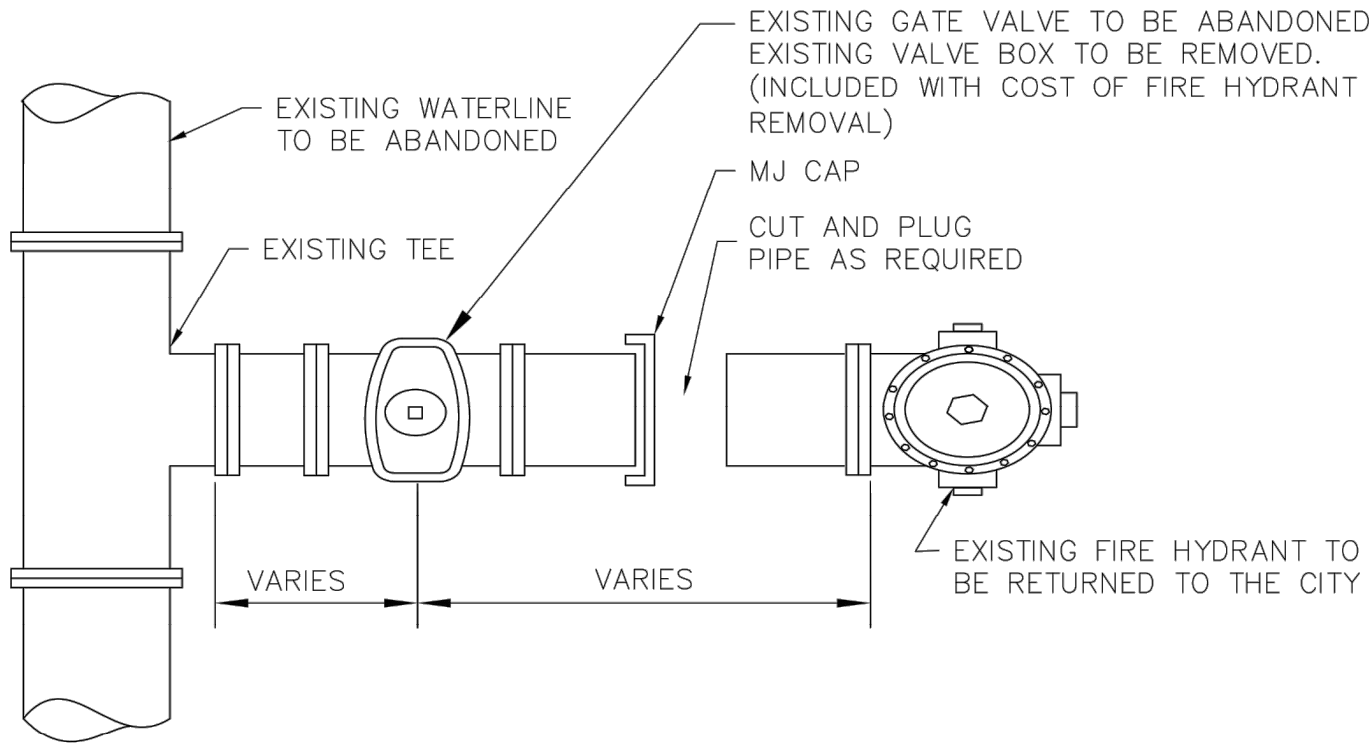
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CIVIL DETAILS 4

C6.3

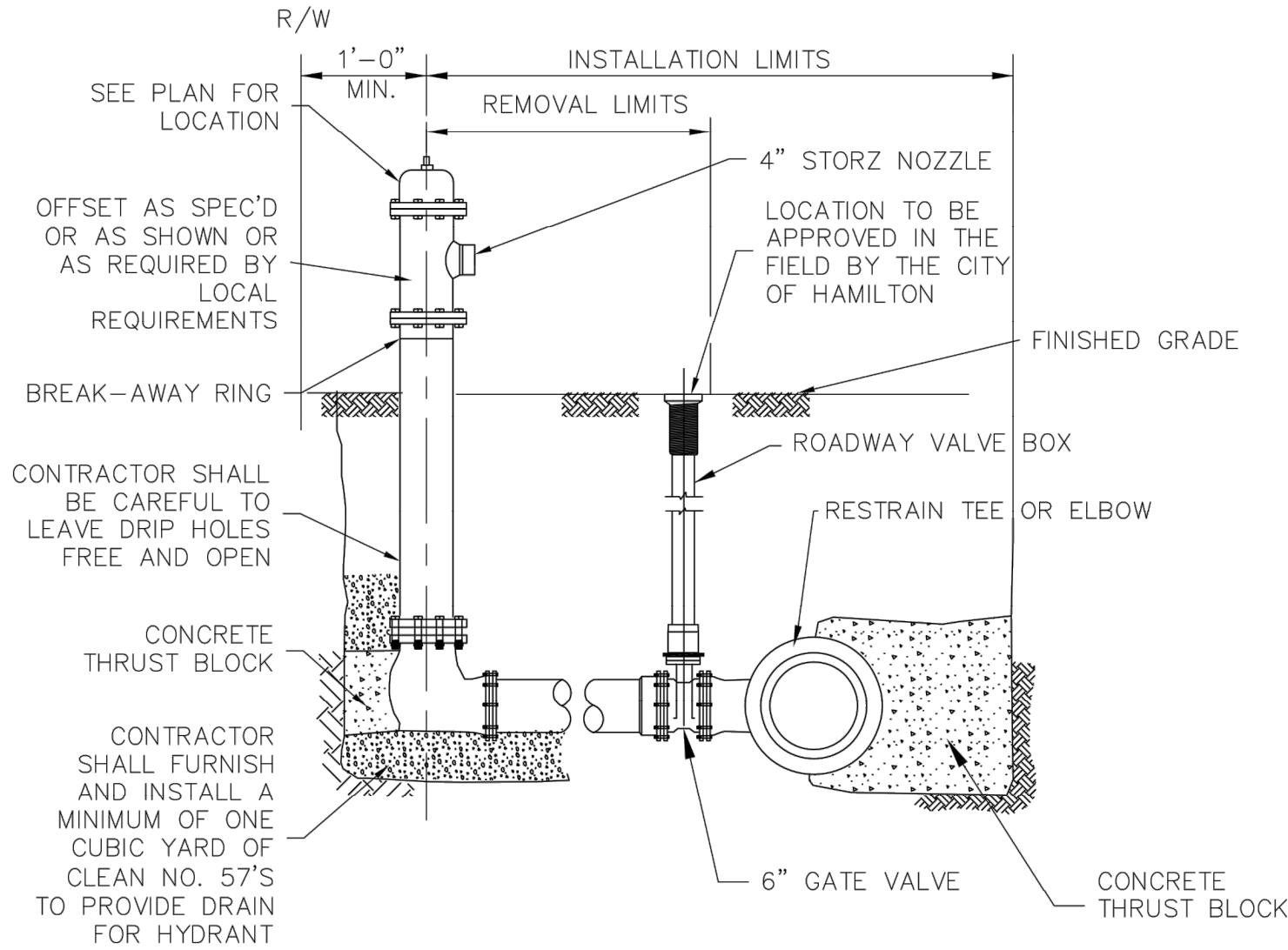
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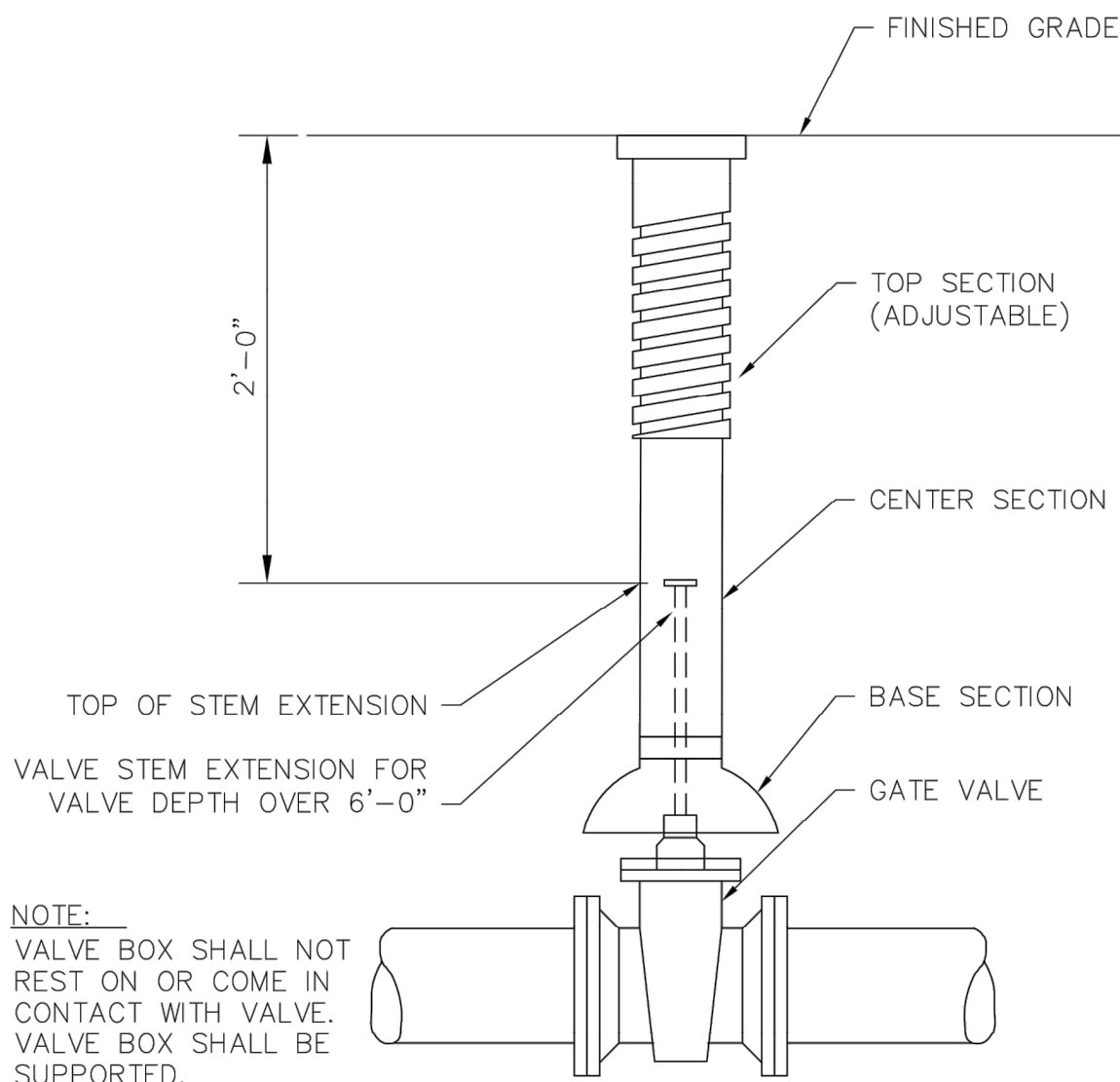


- NOTES:
1. AFTER THE EXISTING WATERLINE IS TAKEN OUT OF SERVICE THE CONTRACTOR SHALL CLOSE EXISTING GATE VALVE AND CUT EXISTING WATERLINE. THE EXISTING FIRE HYDRANT SHALL THEN BE CAREFULLY REMOVED AND RETURNED TO THE CITY OF HAMILTON.
 2. AFTER REMOVAL CONTRACTOR SHALL RESTORE EXISTING GROUND SURFACE TO MATCH BEFORE REMOVAL CONDITION.

EXISTING FIRE HYDRANT
REMOVAL DETAIL

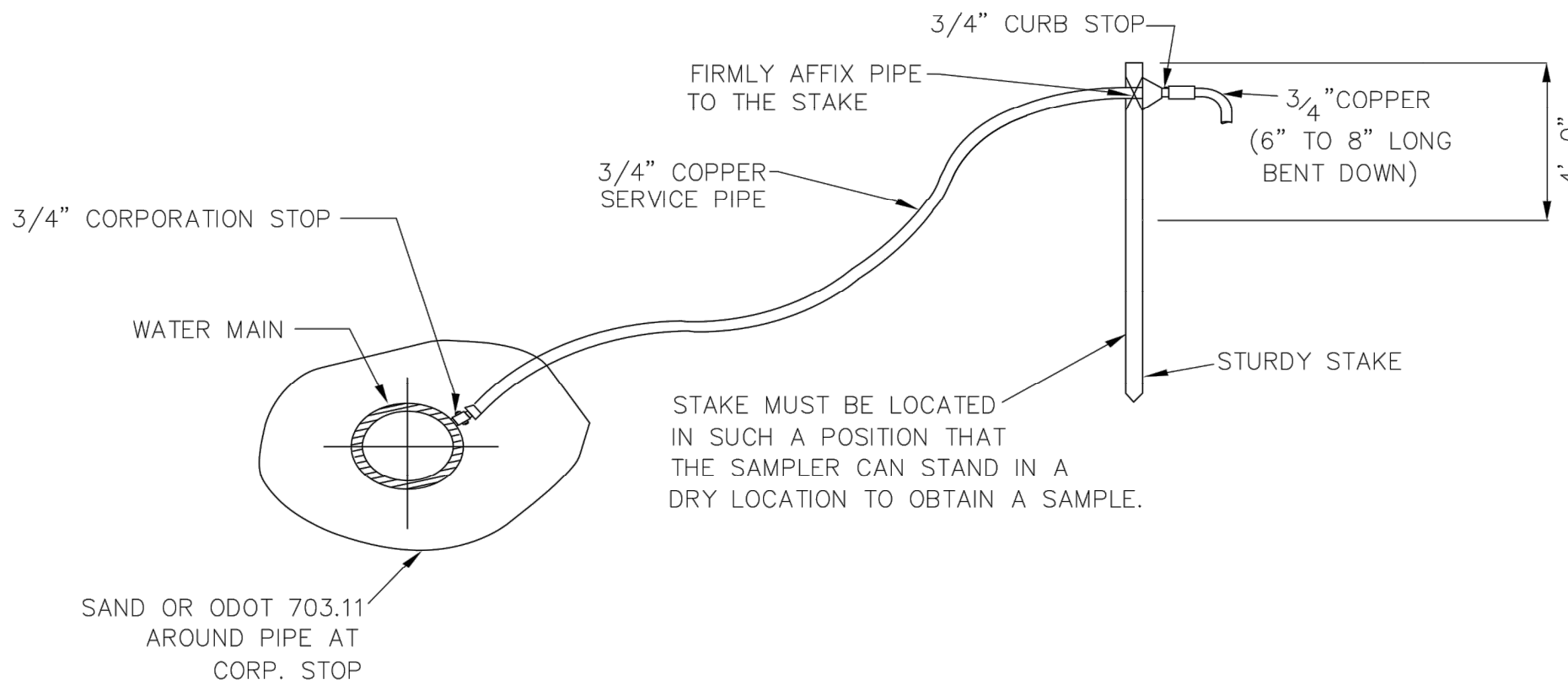


STANDARD FIRE HYDRANT
ASSEMBLY DETAIL



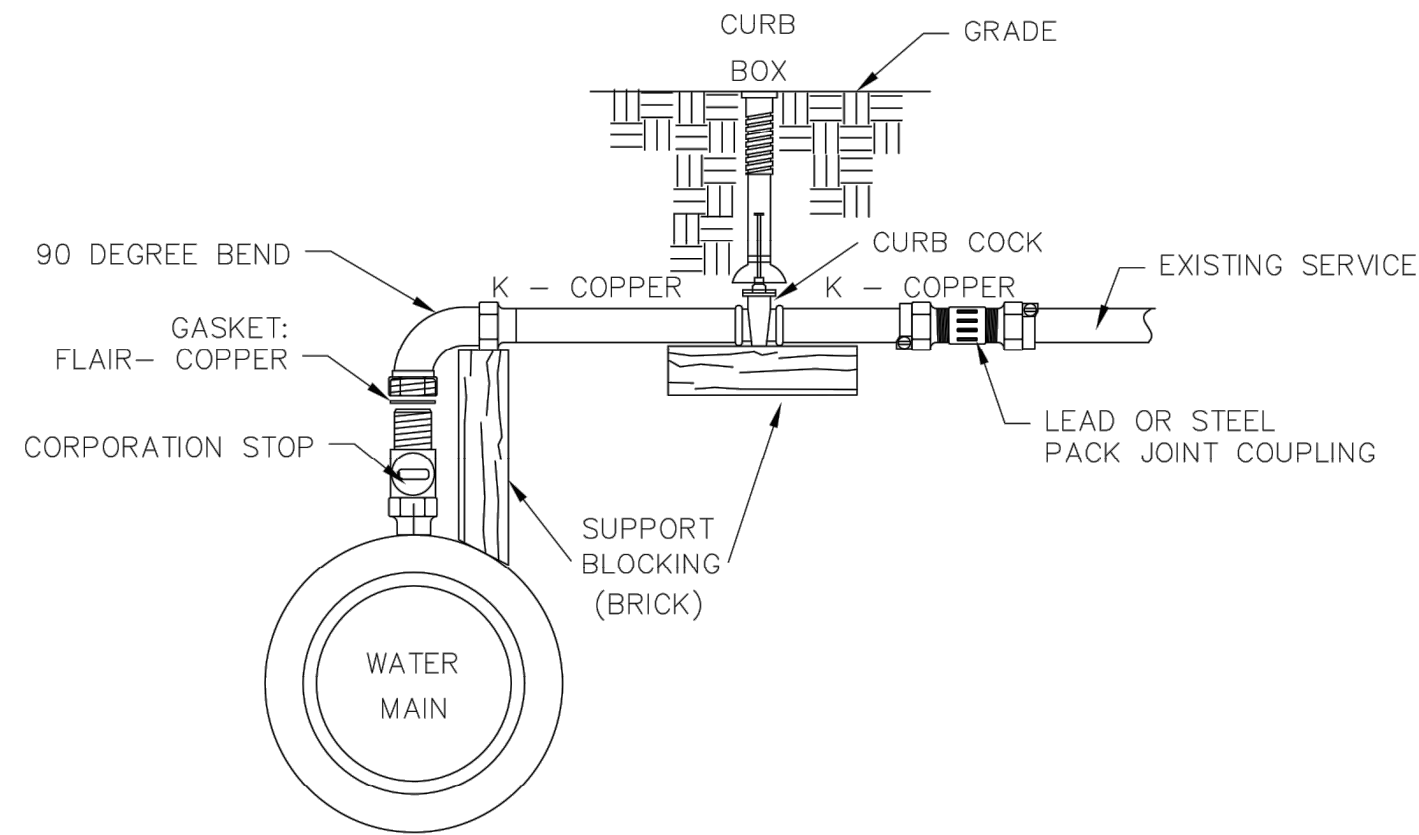
NOTE:
VALVE BOX SHALL NOT REST ON OR COME IN CONTACT WITH VALVE. VALVE BOX SHALL BE SUPPORTED.

ROADWAY VALVE BOX DETAIL

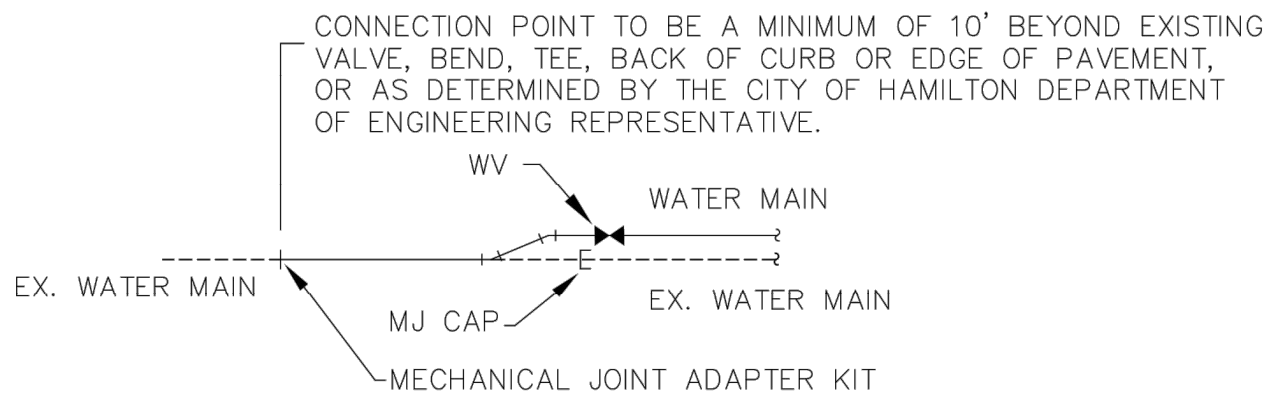


PURITY TEST STATION

BEARING AREA OF THRUST BLOCKS IN SQUARE FEET											
FITTING SIZE (INCHES)	TEE, WYE, PLUG OR CAP	90° BEND OR PLUGGED CROSS	TEE PLUGGED ON RUN BEND		45° BEND	22-1/2° BEND	11-1/4° BEND	VERTICAL VOLUME OF THRUST BLOCK IN CUBIC YARDS			
			A1	A2				FITTING SIZE	45° BEND	22-1/2° BEND	11-1/4° BEND
04	1.3	1.9	2.5	1.9	1.3	—	—				
06	2.8	4.0	5.7	4.0	2.1	1.3	—	4"	1.1	0.4	0.2
08	5.1	7.1	10.1	7.1	3.9	2.0	1.3	6"	2.7	1.0	0.4
10	7.9	11.2	15.7	11.2	6.1	3.2	1.6	8"	4.0	1.5	0.6
12	11.3	16.0	22.7	16.0	8.8	4.5	2.3	12"	8.5	3.2	1.3
14	15.3	21.7	30.7	21.7	11.9	6.1	3.1	16"	14.8	5.6	2.3
16	20.0	28.4	40.0	28.4	15.5	8.0	4.0	VERTICAL BEND			
18	25.3	36.0	50.7	36.0	19.5	10.1	5.1	FITTING SIZE	BAR SIZE	EMBEDMENT DEPTH	
20	31.3	44.4	62.7	44.4	24.1	12.5	6.3	4"—12"	#6	30"	
24	45.3	64.0	90.7	64.0	34.9	18.1	9.1	14"—16"	#8	36"	

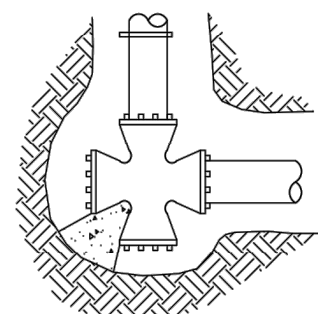


WATER SERVICE DETAIL

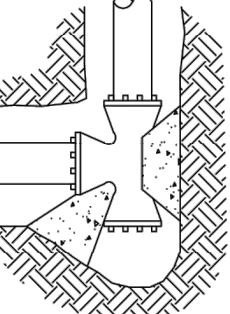


TYPICAL WM TIE-IN DETAIL

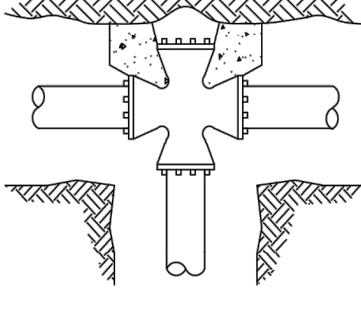
PLUGGED CROSS



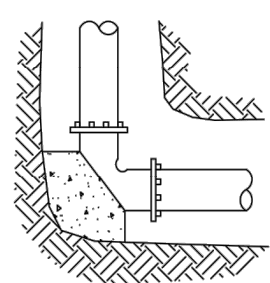
PLUGGED TEE



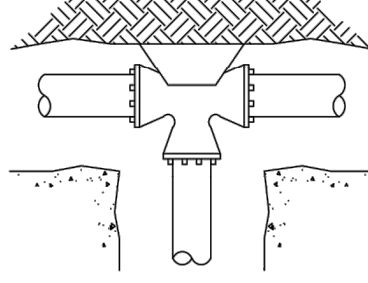
PLUGGED CROSS



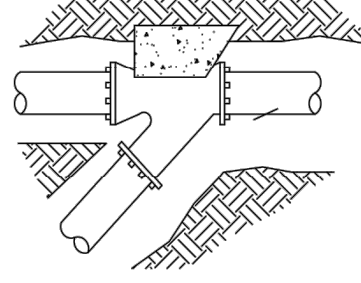
BEND



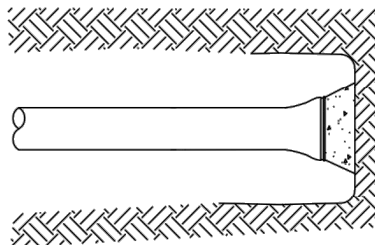
TEE



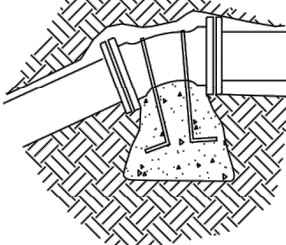
WYE



CAP



VERTICAL BEND



CONCRETE THRUST
BLOCKING DETAIL

ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 P.S.I AND AN ALLOWABLE SOIL BEARING STRENGTH OF 1500 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
BEARING AREA = (TEST PRESSURE/150) X (1500/SOIL BEARING STRESS) X (TABLE VALUE)

NOTES:

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLANS: E.G. 15 INDICATES 15 SQUARE FEET BEARING AREA REQUIRED.
4. IF NOT SHOWN ON PLANS, REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED ABOVE, ADJUST IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIAL SPECIFICATIONS.
5. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.
6. BEARING AREA OF THRUST BLOCKS IS IN SQUARE FEET.
7. VERTICAL CHANGES IN DIRECTION REQUIRE SPECIFIC DESIGNS FOR THRUST BLOCKS.

MINIMUM LENGTH OF PIPE TO BE RESTRAINED IN FEET					
FITTING SIZE (INCHES)	BRANCH OF TEE OR PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	48	18	8	4	2
6	68	26	11	5	3
8	88	34	14	7	3
10	106	42	17	8	4
12	125	49	20	10	5
14	143	57	24	11	6
16	160	65	27	13	6
18	178	72	30	14	7
20	194	79	33	16	8
24	227	94	39	19	9

NOTES:

1. FITTINGS SHALL BE RESTRAINED JOINT TYPE.
2. TABLE INDICATES THE MINIMUM LENGTH OF RESTRAINED JOINTS IN FEET ON EACH SIDE OF THE FITTING AND CHANGES IN DIRECTION. WHERE PRACTICAL, FULL LENGTHS OF PIPE SHALL BE LAID TO ACHIEVE THE REQUIRED MINIMUM RESTRAINT.
3. WHERE COMBINATIONS OF FITTINGS ARE USED, THE PIPING BETWEEN THE FITTINGS SHALL BE RESTRAINED. WHEN TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED JOINT.
4. PROVIDE MECHANICAL RESTRAINT ON EITHER SIDE OF IN-LINE VALVES.
5. FOR FITTINGS OTHER THAN THOSE PRESENTED IN THE ABOVE TABLE, RESTRAINED JOINT LENGTHS SHALL BE DETERMINED IN ACCORDANCE WITH "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA).
6. LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" AS PUBLISHED BY DIPRA, WITH THE FOLLOWING ASSUMPTIONS:
 - a. WORKING PRESSURE = 150 PSI
 - b. LAYING CONDITIONS = TYPE 4
 - c. SOIL DESIGNATION = MOST CONSERVATIVE FOR FITTING TYPE
 - d. ALL DIP TO BE POLYWRAPPED

RESTRAINED PIPE TABLE (DIP)



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