

# Arizona Boulevard Storm Sewer Replacement Project Village of Hoffman Estates

## Client:

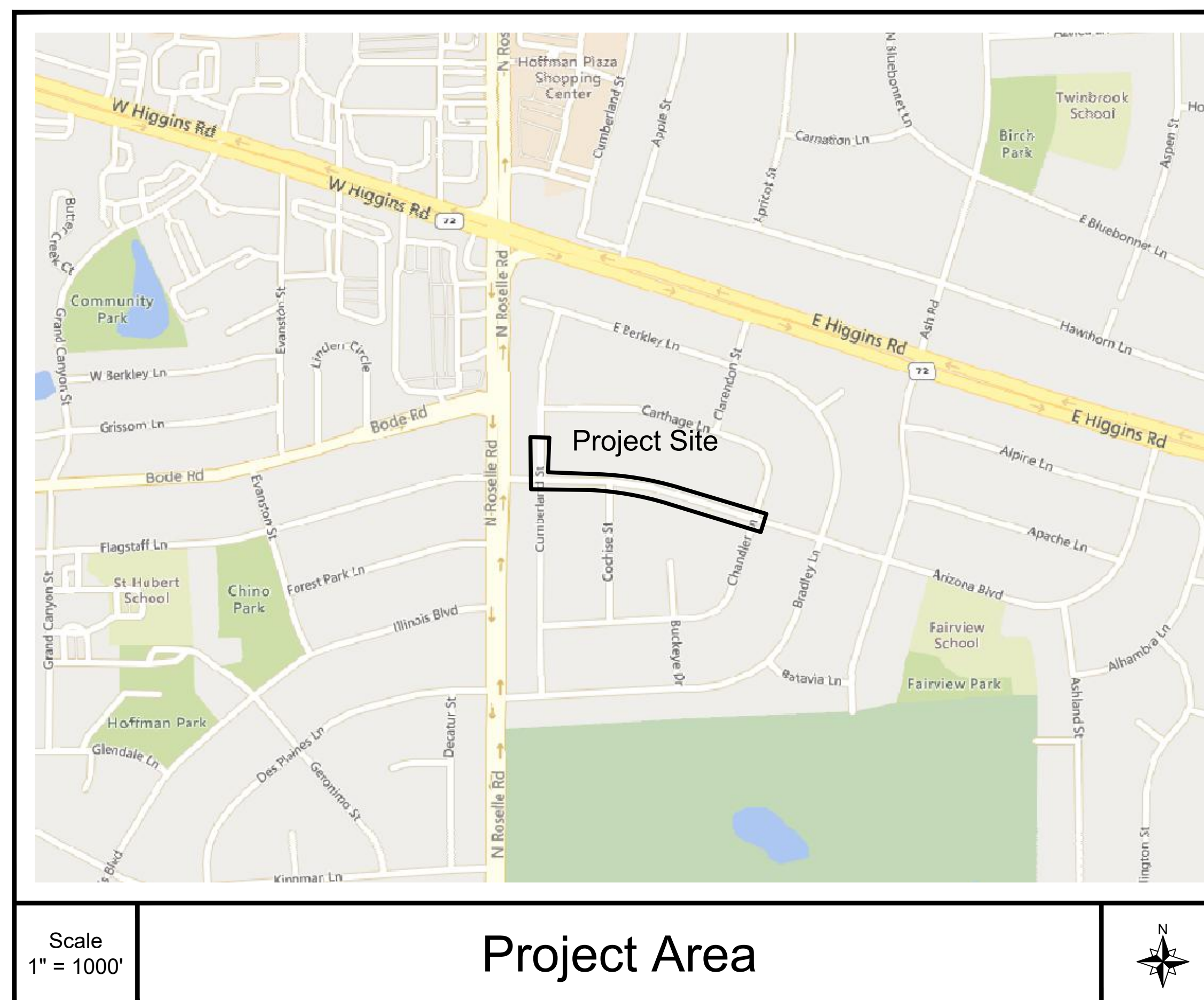
Village of Hoffman Estates  
Mr. Alan Wenderski  
1900 Hassel Road,  
Hoffman Estates, Illinois 60169  
alan.wenderski@hoffmanestates.org

## Engineer:

**Hey and Associates, Inc.**  
8755 West Higgins Road, Suite 835  
Chicago, IL 60631  
Office (773) 693-9200  
Fax (847) 740-2888

## Benchmark:

Nail at intersection of Arizona Boulevard  
and Carthage Lane  
Elevation = 773.08 (NAVD 1988)  
As established by the Village of Hoffman  
Estates on 11/22/2019.



## Sheet Index: (Sheet # / Drawing # / Title)

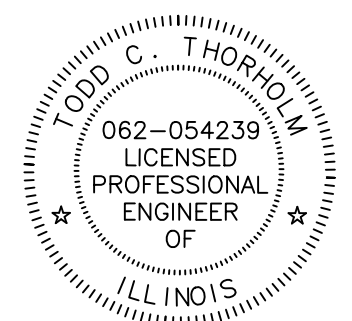
1. C1.0 Cover Sheet
2. C1.1 General Notes
3. C1.2 Summary of Quantities
4. C1.3 Typical Sections
5. C2.0 Existing Conditions/Demolition Plan
6. C3.0 Plan and Profile - Cumberland Street
7. C3.1 Plan and Profile - Arizona Boulevard West
8. C3.2 Plan and Profile - Arizona Boulevard East
9. C3.3 Utility Crossings
10. C4.0 Soil Erosion and Sediment Control Plan
11. C5.0 Restoration Plan
12. C6.0 Details
13. C6.1 Details
14. C6.2 Details
15. C6.3 Details
16. C6.4 Details
17. C6.5 Details

Call J.U.L.I.E. 1-800-892-0123 at least 48 hours before start of construction with the following:

County: Cook  
City or Township: Hoffman Estates  
Tier, Range & Section: T41N, R41E, Sec. 15

The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto.

### PROFESSIONAL SEAL



Signature: *Todd C. Thorion*  
Date: 3/2/2022  
License Expires: 11/30/2023

This document shall not be considered a valid technical submittal unless it bears an original seal and signature.

### Base Survey Information provided by:

Atlas Engineering Group, Ltd

No.	Revision/Issue	Date

### Hey and Associates, Inc.

Engineering, Ecology and Landscape Architecture  
8755 W. HIGGINS ROAD, SUITE 835  
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PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-002429

### Arizona Boulevard Storm Sewer Replacement Project Village of Hoffman Estates

Cover Sheet

PROJECT NO:	21-0332	DRAWING NO:	<b>C1.0</b>
DESIGNED BY:	TCT		
DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML	SHEET NO:	
ISSUE DATE:	3/2/2022	1 OF	17

Bid Set

**GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS**

- All construction shall be in accordance with the applicable sections of the following, except as modified herein or on the plans:
  - "Standard Specifications for Road and Bridge Construction" (Latest Edition), by the Illinois Department of Transportation (SSRBC) and "Supplemental Specifications and Recurring Special Provisions" (Latest Edition) for all improvements except for sanitary sewer, watermain and plumbing construction;
  - Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition) (SSWS) for sanitary and water main construction;
  - Village of Hoffman Estates municipal code;
  - The Metropolitan Water Reclamation District of Greater Chicago (MWRD) Watershed Management Ordinance and Technical Guidance Manual;
  - Illinois Plumbing Code;
  - International Mechanical Code;
  - In case of conflict between the applicable ordinances noted, the more stringent shall take precedence and shall control all construction.
- The Contractor shall examine all plans and specifications, visit the site of the work and inform themselves fully with the work involved, general and local conditions, all Federal, State and local laws, ordinances, rules and regulations and all other pertinent items which may affect the cost and time of completion of this project before submitting a proposal.
- Prior to submitting a bid and beginning construction, the Contractor shall verify the lines and grades shown on the plans. If there are any discrepancies from what is shown on the plans, the Contractor shall immediately report them to the Owner prior to performing the work. The Contractor shall be responsible for coordination of work as required.
- Prior to submitting his bid, the Contractor shall call the attention of the Engineer to any material or equipment he deems inadequate and to any item of work omitted.
- Location of above and belowground utilities shown on plans are for information only and represent the best knowledge of the Engineer. Contractor shall make his own investigations as to location and elevation of all utilities, existing underground structures, cables and pipe lines prior to the start of construction operations.
- If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer and Owner so that the conflict may be resolved.
- The Contractor shall notify the J.U.L.I.E. (811 or 1-800-892-0123) at least ten days prior to construction so that each utility company can stake out any underground improvements that they may have which might interfere with the proposed construction.
- The Contractor shall be responsible for providing the necessary protection of all existing private and public utilities in conformance with the affected utility company's requirements as may be required to perform the work. Any utility that is damaged during construction shall be repaired or replaced by the Contractor at their own expense to the satisfaction of the Engineer, Owner and/or utility company.
- The Contractor shall be required to make arrangements for the proper bracing, shoring and other required protection of all roadways, buildings, structures, poles, cables and pipe lines, before construction begins. Contractor shall be responsible for any damage to the streets, roadway, structures and shall make repairs as necessary to the satisfaction of the Engineer and Owner at the Contractor's own expense.
- The work performed under this contract shall in no way interfere with the normal operation of any existing utility service. The Contractor shall furnish all necessary items of equipment required to maintain such normal operations at no additional expense to the Owner.
- The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 1106 of the SSRBC and the "Standard Specifications for Traffic Control Items".
- The Contractor shall restore any area disturbed outside the construction site to a condition equal to or better than its original use. This shall include finish grading, establishment of a vegetative cover (seeding or sod), general cleanup and pavement replacement.
- All new and existing utility structures on site and in areas disturbed during construction shall be adjusted to final grade prior to final inspection. No additional compensation shall be paid and said adjustments shall be considered incidental.
- All trenches caused by the construction of sewers, service sewers, piping, utilities, and the excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or where the edge of the trench shall be within two feet (2') of said improvements shall be backfilled with approved suitable select material and properly compacted.
- The Contractor shall be responsible for providing safe and healthful working conditions throughout the construction of the proposed improvements.
- The Contractor shall protect and carefully preserve all section or subsection monuments, lot irons, or other property or reference markers until the Engineer, his agent or an authorized surveyor has witnessed or otherwise referenced their location. Any damages shall be replaced by the Contractor and said cost of replacement shall be paid by the Contractor.
- The Contractor shall provide a written work schedule and shall update said schedule as required. A minimum twenty-four (24) hour notice shall be given for any item that requires approval or inspection.

- The Owner, Owner's Representative, municipality, or regulatory agency shall have the authority to inspect, approve and reject the construction improvements.
- Before acceptance by the Owner and final payment, all work shall be inspected and approved by the Engineer and Owner. Final payments shall be made after all of the Contractor's work has been approved and accepted.
- The Contractor is responsible for coordinating any required inspections with the Owner, Engineer and other agencies.
- If any approved equal items are proposed, the Contractor shall contact the Engineer for written approval prior to use or installation.
- The Engineer and Owner are not responsible for the construction means, methods, techniques, sequences or procedures, time of performance, programs or for any safety precautions used by the Contractor. The Contractor is solely responsible for execution of his work in accordance with the contract documents and specifications.
- Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor.
- The Contractor will have in his possession on the job site a copy of the plans and specifications during construction.
- Special attention is drawn to the fact that Article 105.06 of the SSRBC requires the Contractor to have a competent superintendent on the project site at all times, irrespective of the amount of work sublet. The superintendent shall be capable of reading and understanding the plans and specifications, shall have full authority to execute orders to expedite the project, shall be responsible for scheduling and have control of all work as the agent of the Contractor. Failure to comply with this provision will result in a suspension of work as provided in Article 108.07.
- Record drawings shall be kept by the Contractor and submitted to the Engineer as soon as underground improvements are completed. Final payments to the Contractor shall be held until they are received. Any changes in length, location or alignment shall be shown in red. All wyes or bends shall be located from the downstream manhole. All valves, b-boxes, tees or bends shall be tied to a fire hydrant or building corner.
- The Contractor(s) shall indemnify the Owner, Engineer, Municipality and their agents, etc. from all liability involved with the construction, installation, or testing of work on the project.

**EARTHWORK AND GRADING CONSTRUCTION**

All work done under this heading will be done in accordance with applicable provisions of the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022.

- Work under this section shall include, but not be limited to, the following:
  - Clearing and removal of all undesirable vegetative growth within the construction area except as noted otherwise on the plans.
  - Removing unsuitable materials as specified from parking, roadway, building and other designated areas.
  - Clay cut and clay fill with compaction within parking, roadway, building and other designated areas.
  - Excavation and grading of the entire site per plan, including construction of berms, swales, etc., as shown on these plans.
  - Placement and construction of structural and non-structural fills.
  - If required, removal from site and disposal of any excess or unsuitable material upon completion of mass grading.
  - Movement and compaction of spoil material from the construction of underground utilities.
  - Final shaping and trimming to the lines, grades and cross-sections shown in these plans, and topsoil placement to design finish grade elevations.
  - Soil erosion control measures in accordance with the applicable specifications and county requirements.
- Silt fence as shown in the construction plans shall be erected prior to mass earthwork.
- It is the Contractor's responsibility to determine all material quantities and apprise himself of all site conditions. No claims for extra work will be recognized unless ordered in writing by the Owner.
- The grading operations are to be closely supervised and inspected, particularly during the removal of unsuitable material and the construction of embankments, by the geotechnical engineer or his representative. All testing, inspection and supervision of soil quality, unsuitable removal and its replacement, and other soils related operations shall be entirely the responsibility of the geotechnical engineer.
- The grading and construction of the site improvements shall not cause ponding of stormwater except as noted on the plans. All areas adjacent to these improvements shall be graded to allow positive drainage.
- The proposed grading elevations shown on the plans are finish grade. A minimum of six inches (6") of topsoil is to be placed before finish grade elevations are achieved, except where noted otherwise.
- All disturbed areas to be sodded or seeded with IDOT Class 1 (lawn mixture) seed mixture.
- Detailed drawings for any sheeting and bracing shall be provided for review to the Owner's representative prior to implementation of the method. A trench box shall be available on the job site at all times and be utilized in accordance with OSHA standards.
- No underground work shall be covered until it has been reviewed by the Owner.

**UNDERGROUND CONSTRUCTION**

- All storm drain construction shall be in accordance with the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022, and revisions thereto, and the notes in the plan.
- All storm sewers shall be Reinforced Concrete Pipe (RCP) ASTM designation C-76 and C-14, Class III and IV with bell and spigot or tongue and groove ends utilizing cement mortar or mastic compound joints as designated on the plans and in the proposal unless shown otherwise or approved equal.
- All manholes and inlets shall be Precast Reinforced Concrete ASTM designation C-478.
- Existing field tile encountered at an elevation above the proposed drainage system shall be connected to the drainage system by a method approved by the Engineer. The cost of this work shall be considered incidental to the cost of construction.
- Existing field tile encountered at an elevation below the proposed drainage system shall be replaced by a method approved by the Engineer. (The usual method will be to sleeve the field tile with rigid pipe and bed the sleeve.) The cost of this work shall be considered incidental to the cost of construction.
- All flared end sections (FES) shall receive standard grating for concrete flared end sections per IDOT specifications.
- Structures for storm drains shall be in accordance with the improvement plans and the applicable standard specifications. Where granular trench backfill is required around these structures, the cost shall be considered as incidental and shall be included in the contract unit price for the structure.
- Castings for storm drains structures shall be as follows, unless noted in the plans:
  - Inlet and catch basin frame and open grates in paved areas shall be Neenah R-2504 with Type D grate, East Jordan 1050Z1 with Type M1 grate or approved equal.
  - Inlet and catch basin frame and grates in grassed areas shall be Neenah R-2540 with Type D grate, East Jordan 1020 with Type M1 grate or approved equal.
  - Manhole frame and closed grates shall be Neenah R-1713 with Type B lid, East Jordan 1050Z1 with Type A lid or approved equal, embossed "Village of Hoffman Estates" and "storm". Steps shall be polypropylene plastic PS1-PF by M. A. Industries or approved equal.
- All final adjustments of casting will be accomplished by the use of precast concrete adjusting rings set in Butyl rope joint sealant, mortar joints will not be allowed. Total height of adjusting rings used shall not exceed twelve inches (12") with no more than 2 rings. Cost for adjustment is considered incidental.
- The underground contractor shall be responsible to place on grade and coordinate with other contractors all underground structure frames such as catch basins, inlets, manholes, etc. No additional compensation shall be paid and said adjustments shall be considered incidental to other items of construction.
- All trenches caused by the construction of sewers, service sewers, and the excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or where the edge of the trench shall be within two feet (2') of said improvements shall be backfilled with approved suitable select material and properly compacted.
- "Band-Seal" or similar couplings shall be used when joining sewer pipes of dissimilar materials.
- Loss of residential driveway access shall not exceed 2 weeks. This shall be incidental to other items of construction. Provide temporary access to residential driveways for other stages of work.
- Refer to the project special provisions for water main shutdown procedures. Water service to residents shall not exceed 4 hours.

**SEDIMENTATION AND EROSION CONTROL NOTES**

All soil erosion and sedimentation control measures shall be in accordance with the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022, and the codes and ordinances of the local municipal and county agencies.

- Soil disturbance shall be conducted in such a manner as to minimize erosion. Soil stabilization measures shall consider the time of year, site conditions, and the use of temporary or permanent measures.
- Soil erosion and sediment control features shall be constructed prior to the commencement of disturbance.
- Temporary soil stabilization shall be applied to disturbed areas within 7 calendar days of the end of the active hydrologic disturbance. Permanent stabilization shall be completed within 14 days after completion of final grading of the soil.
- All storm sewer facilities that are or will be functioning during construction shall be protected, filtered or otherwise treated to remove sediment.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after temporary measures are no longer needed. Trapped sediment and other disturbed soil areas shall be permanently stabilized.
- All temporary and permanent erosion control measures must be maintained and repaired as needed. The Contractor will be responsible for inspection and repair during construction. The Owner will be responsible if erosion control is required after the Contractor has completed the project.
- The erosion control measures indicated on the plans are the minimum requirements. Additional measures may be required as directed by the Engineer, Owner, or governing agency.
- All affected trees shall be protected per details.
- No spoils, building materials, backfill, dumpsters, construction equipment, etc... shall be stored or parked within the parkway tree drip lines.
- Any work within the tree drip line or within seven (7) feet of the tree requires 24 hour advance notice is given to the Village Forester.

**LEGEND**

----- Right-of-Way Line -----

----- 1 ft Existing Contours - Surveyed -----

===== Proposed Contours =====

--- Existing Storm Sewer ---

--- Existing Sanitary Sewer ---

--- Existing Water Main ---

--- Existing Electric Line ---

--- Existing Gas Main ---

--- Existing Telephone Line ---

--- Existing Fence - Wood ---

--- Existing Fence - Chain-link ---

===== Proposed Storm Sewer =====

----- Proposed Water Main -----

☐ Ex. Inlet

○ Ex. Catch Basin (CB)

⊙ Ex. Storm Manhole (MH)

⊙ Ex. Sanitary Manhole

⊗ Ex. Valve

⊗ Ex. Valve Vault

⊙ Ex. Fire Hydrant

⊙ Ex. B-box

⊙ Ex. Water Meter

⊙ Ex. Cleanout

--- Ex. Guy Wire

○ Ex. Power Pole

⊗ Ex. Light

⊙ Ex. Telephone Manhole

⊙ Ex. Sign

⊙ Ex. Deciduous Tree

⊙ Ex. Conifer Tree

● Proposed Inlet w/ Type 3 F&G

● Proposed Catch Basin w/ Type 3 F&G

● Proposed Storm Manhole w/ Type 1 FR CLID

● Proposed Buffalo Box

VIF = Verify in Field



**LEGEND**

No.	Revision/Issue	Date

**Hey and Associates, Inc.**  
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 CHICAGO@HEYASSOC.COM  
 PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-002429

**Arizona Boulevard Storm Sewer Replacement Project Village of Hoffman Estates**

**General Notes**

PROJECT NO: 21-0332		DRAWING NO:	
DESIGNED BY	TCT	<b>C1.1</b>	SHEET NO:
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	ISSUE DATE: 3/2/2022	
ISSUE DATE: 3/2/2022		2 of 17	

**Bid Set**

**State Standards:**

Standard No.	Description
424001-11	Perpendicular Curb Ramps for Sidewalks
424021-06	Depressed Corner for Sidewalks
604001-05	Frames and Lids Type 1
604006-05	Frame and Grate Type 3
701006-05	Off-Road Operations, 2L, 2W, 15' (4.5 m) to 24" (600 mm) from Pavement Edge
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701501-06	Urban Lane Closure, 2L, 2W, Unidirectional
701801-06	Sidewalk, Corner, or Crosswalk Closure
701901-08	Traffic Control Devices

**District Standards:**

Traffic Control and Protection for Side Roads, Intersections, and Driveways (TC-10)  
 District One Typical Pavement Markings (TC-13)

SPECIAL PROVISION OR IDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	10.0
20800150	TRENCH BACKFILL	CU YD	1,505
HE252001	SODDING, SPECIAL	SQ YD	1,387
28000510	INLET FILTERS	EACH	11
HE351001	AGGREGATE FOR SUBGRADE IMPROVEMENT	CU YD	10
HE351002	AGGREGATE FOR TEMPORARY ACCESS, SPECIAL	EACH	13
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	338
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6,275
42400800	DETECTABLE WARNINGS	SQ FT	104
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	351
44000600	SIDEWALK REMOVAL	SQ FT	5,063
HE442001	CLASS D PATCH, SPECIAL, 8"	SQ YD	15
HE442002	CLASS D PATCH, SPECIAL, 10"	SQ YD	365
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	100
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	17
550A2600	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 36"	FOOT	1,145
550B2400	STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 1 36"	FOOT	3
55100500	STORM SEWER REMOVAL 12"	FOOT	37
55101600	STORM SEWER REMOVAL 36"	FOOT	13
HE561006	WATER MAIN ADJUSTMENT, 6", SPECIAL	FOOT	32
HE561008	WATER MAIN ADJUSTMENT, 8", SPECIAL	FOOT	30
56200500	WATER SERVICE LINE 1 1/2"	FOOT	607
HE563004	SANITARY SERVICE REMOVAL AND REPLACEMENT, PVC SDR 26, 4" SPECIAL	FOOT	290
HE602002	INLETS, 2 FOOT DIAMETER	EACH	3
HE602005	MANHOLES, 5 FOOT DIAMETER	EACH	3
HE602007	MANHOLES, 7 FOOT DIAMETER	EACH	2
HE602104	CATCH BASINS, 4 FOOT DIAMETER	EACH	3
HE604001	FRAMES AND LIDS, STORM, TYPE 1, CLOSED LID, SPECIAL	EACH	5
HE604003	FRAMES AND GRATES, FOR B6.12 CURB	EACH	6
60500040	REMOVING MANHOLES	EACH	1
60500060	REMOVING INLETS	EACH	2
HE605001	ABANDONING MANHOLES, SPECIAL	EACH	1
HE606001	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT, SPECIAL	FOOT	359
HE606002	CONCRETE FRONT FILL, SPECIAL	FOOT	296
HE720001	REMOVE AND RESET SIGN	EACH	5

LEGEND

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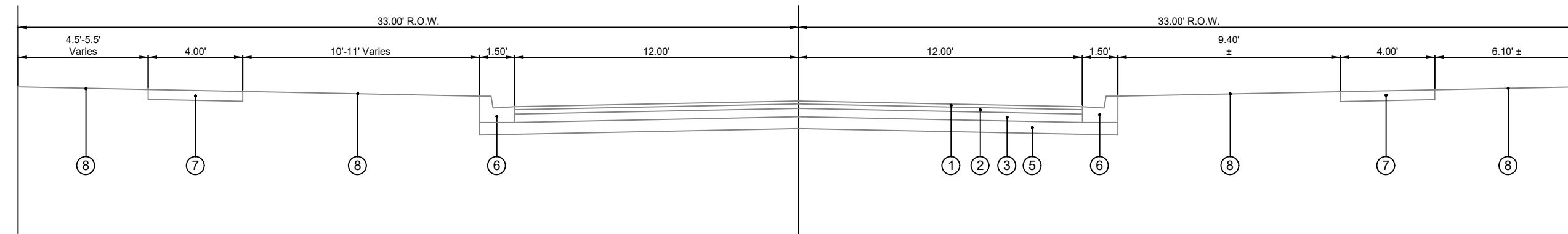
Arizona Boulevard Storm  
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 Village of Hoffman Estates

Summary of Quantities

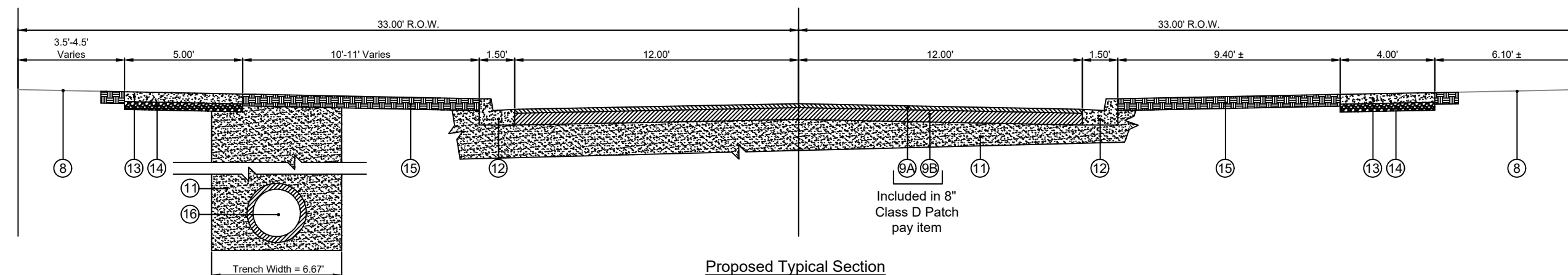
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DRAWN BY	TCT, MAA	
CHECKED BY	PML	
APPROVED BY	PML	SHEET NO:
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Bid Set

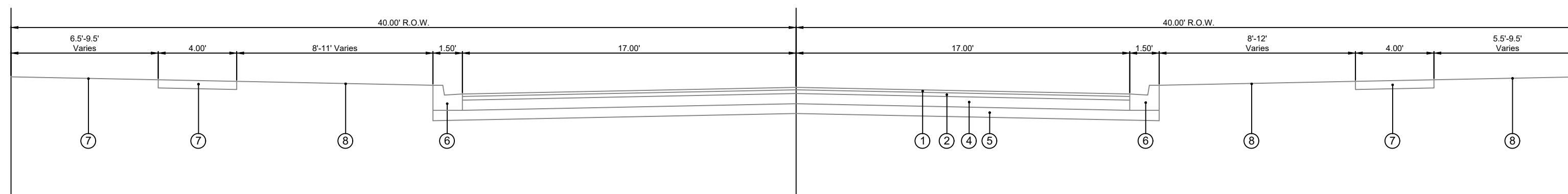
File: P:\2100021-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Plot Date: March 2, 2022 Plotted by: Todd Thornholm



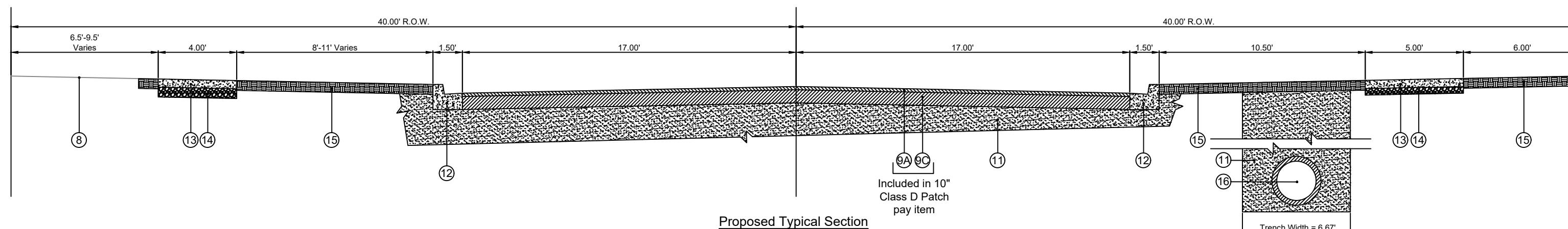
Existing Typical Section  
Cumberland Street  
(Not to Scale)



Proposed Typical Section  
Cumberland Street  
Patch Locations (See Plan)  
(Not to Scale)



Existing Typical Section  
Arizona Boulevard  
(Not to Scale)



Proposed Typical Section  
Arizona Boulevard  
Patch Locations (See Plan)  
(Not to Scale)

- ① Ex. Hot-mix Asphalt Surface Course, 1.5"
- ② Ex. Hot-mix Asphalt Binder Course, 2.25"
- ③ Ex. Bituminous Base Course, 4.25"
- ④ Ex. Bituminous Base Course, 6.25"
- ⑤ Ex. Sub-Base Granular Material, 6"
- ⑥ Ex. Concrete B6.12 Curb and Gutter
- ⑦ Ex. Concrete Sidewalk, 5"
- ⑧ Ex. Grass
- ⑨ Prop. Hot-mix Asphalt Surface Course, Mix "D", N50, IL-9.5, 2"
- ⑩ Prop. Class D Patch, 6"
- ⑪ Prop. Class D Patch, 8"
- ⑫ Prop. Trench Backfill
- ⑬ Prop. Concrete Curb and Gutter, Type B6.12
- ⑭ Prop. Concrete Sidewalk, 5"
- ⑮ Prop. Aggregate Base Course, Type B, 4" (Incidental)
- ⑯ Prop. 6" Topsoil and Salt Tolerant Sod
- ⑰ Prop. Storm Sewer

Roadway Name	Hot-mix Asphalt Mixture Requirements	
	Mixture Type	Air Voids
Arizona Boulevard Cumberland Street	Pavement Resurfacing	
	Hot-mix Asphalt Surface Course, Mix "D", N50, IL-9.5, 2"	4% @ 50GYR.
	Patching	
	Class D Patches (HMA Binder, IL-19), 6" and 8" (2 lifts)	4% @ 70 GYR.

- NOTES:
1. The unit weight used to calculate all HMA mixture quantities is 112 LBS/SQ.YD./IN.
  2. The "AC Type" for polymerized HMA mixes shall be "SBS/SBR PG 76-22" and for non-polymerized HMA shall be "PG 54-22" unless modified by District One Special Provisions for use of recycled materials. See District One Special Provisions.



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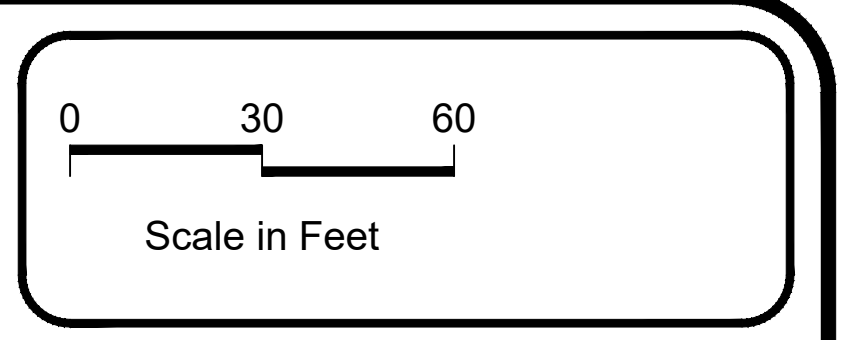
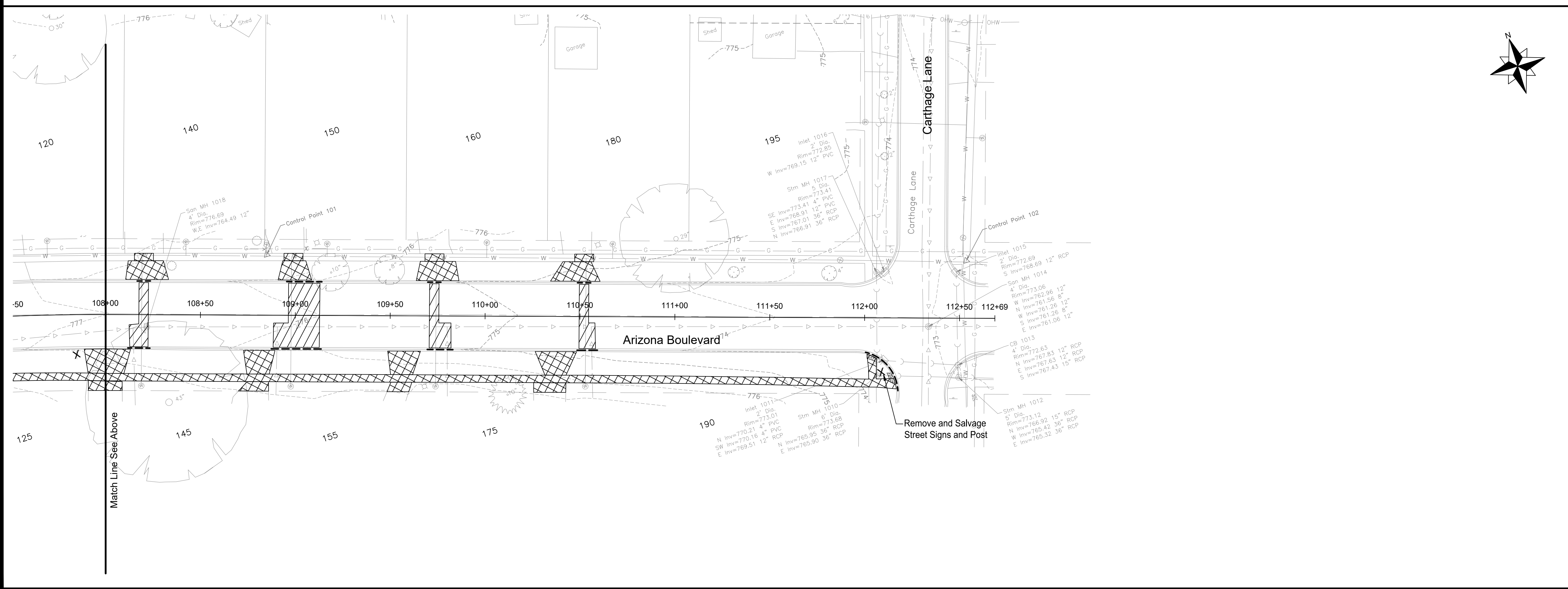
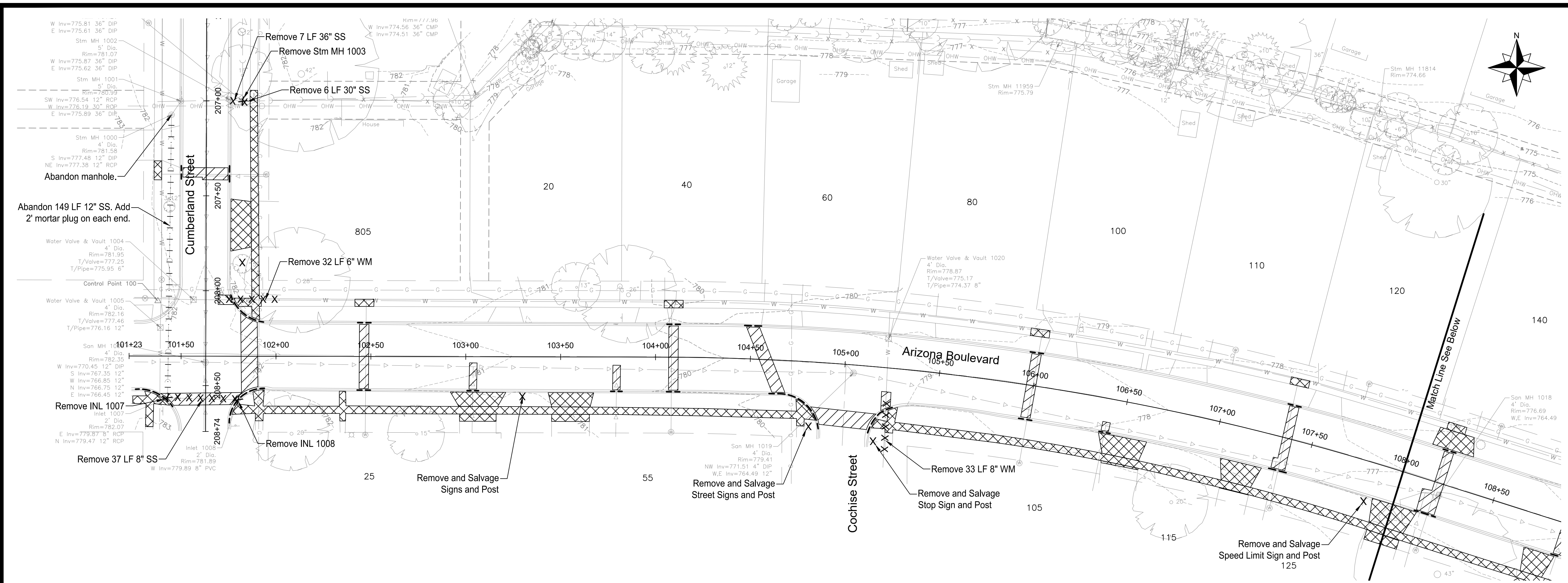
**Arizona Boulevard Storm  
Sewer Replacement Project  
Village of Hoffman Estates**

**Typical Sections**

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DRAWN BY	TCT, MAA		
CHECKED BY	PML		
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ISSUE DATE	3/2/2022	4	of 17

**Bid Set**

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**LEGEND**

Remove Ex. Concrete Curb & Gutter/Barrier Curb  
 Remove Ex. Asphalt Pavement  
 Remove Ex. Concrete Pavement/Sidewalk  
 Remove Existing Storm Sewer  
 Abandon Existing Storm Sewer  
 Remove Existing Water Main  
 Ex. Inlet (INL)  
 Ex. Storm Manhole (MH)  
 Ex. Tree

No.	Revision/Issue	Date

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 FAX (847) 740-2888  
 CHICAGO@HEYASSOC.COM

PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-002429

**Arizona Boulevard Storm  
 Sewer Replacement Project  
 Village of Hoffman Estates**

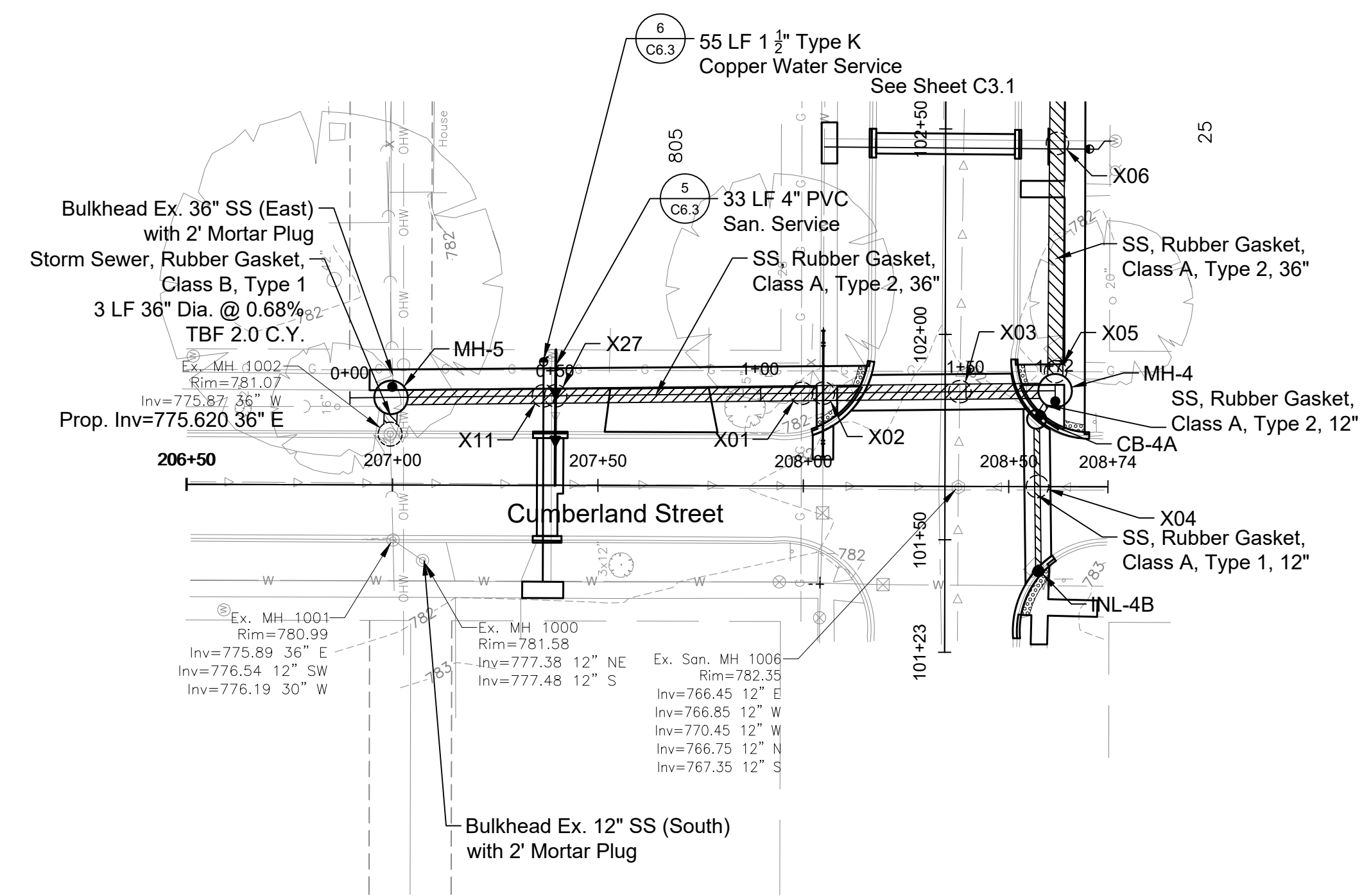
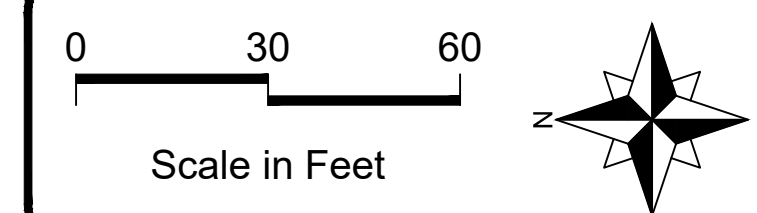
**Existing  
 Conditions/Demolition  
 Plan**

PROJECT NO: 21-0332		DRAWING NO:	
DESIGNED BY: TCT	DRAWN BY: TCT, MAA	<b>C2.0</b>	
CHECKED BY: PML	APPROVED BY: PML		
ISSUE DATE: 3/2/2022	SHEET NO: 5 OF 17		

**Bid Set**

File: P:\210001-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Pld Date: March 2, 2022 Plotted by: Todd Thornholm

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LEGEND

No.	Revision/Issue	Date

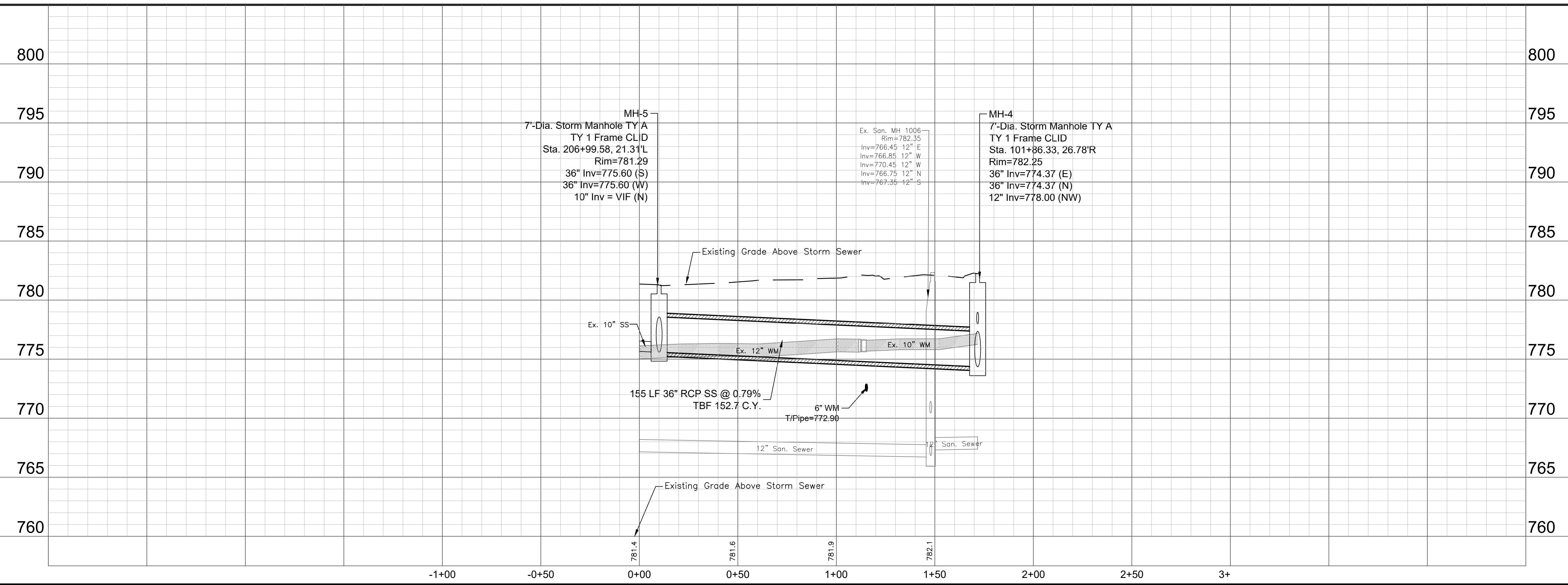
**Hey and Associates, Inc.**  
 Engineering, Ecology and Landscape Architecture  
 8755 W. HIGGINS ROAD, SUITE 835  
 CHICAGO, ILLINOIS 60631  
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 LICENSE NO. 184-002429

Arizona Boulevard Storm  
 Sewer Replacement Project  
 Village of Hoffman Estates

Plan and Profile  
 Cumberland Street  
 Sta. 206+50 to Sta. 208+74

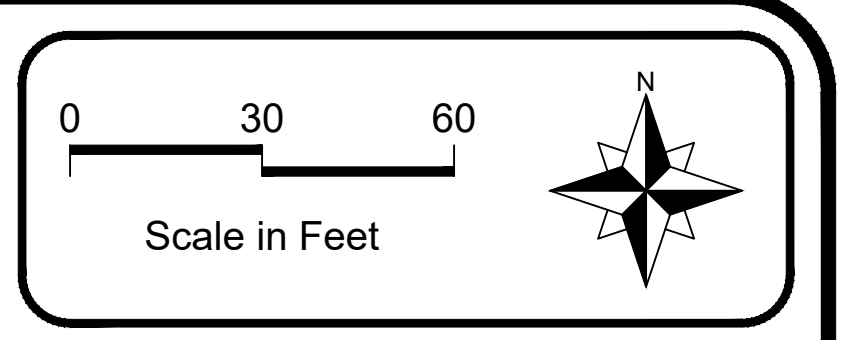
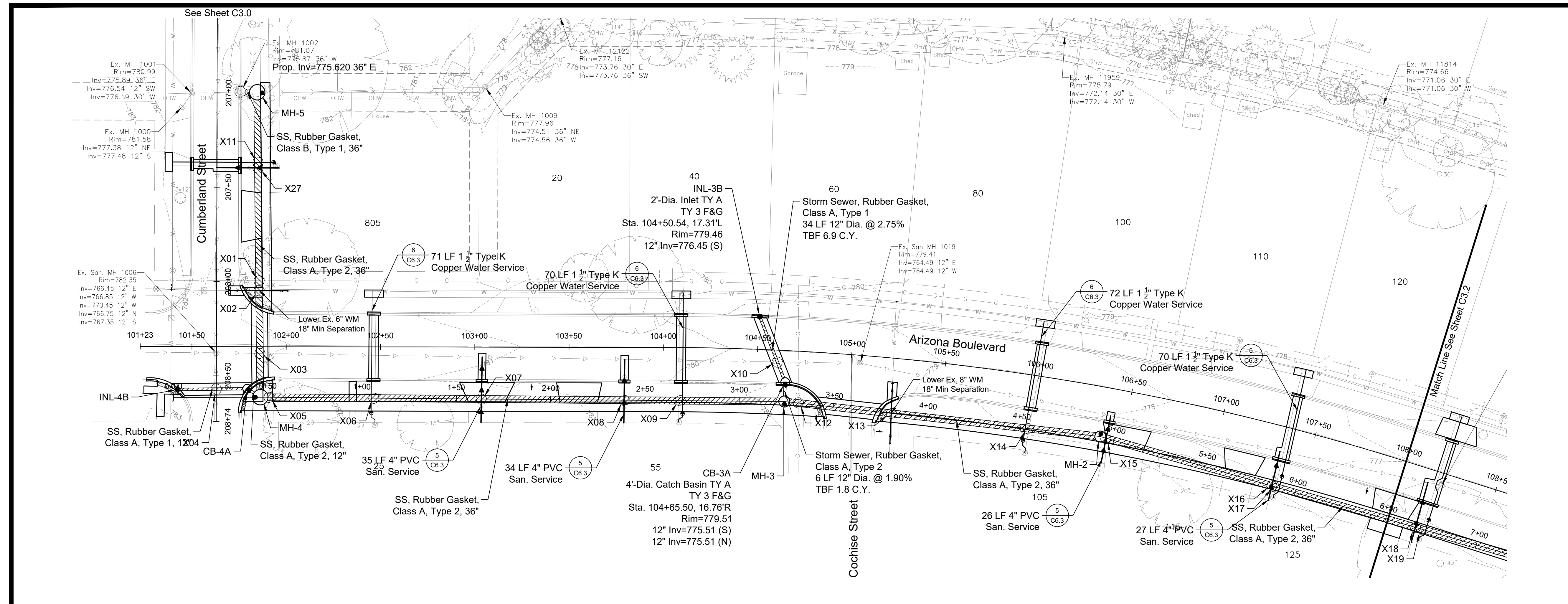
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DESIGNED BY	TCT	C3.0	SHEET NO:
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	6 of 17	
ISSUE DATE	3/2/2022		

Bid Set

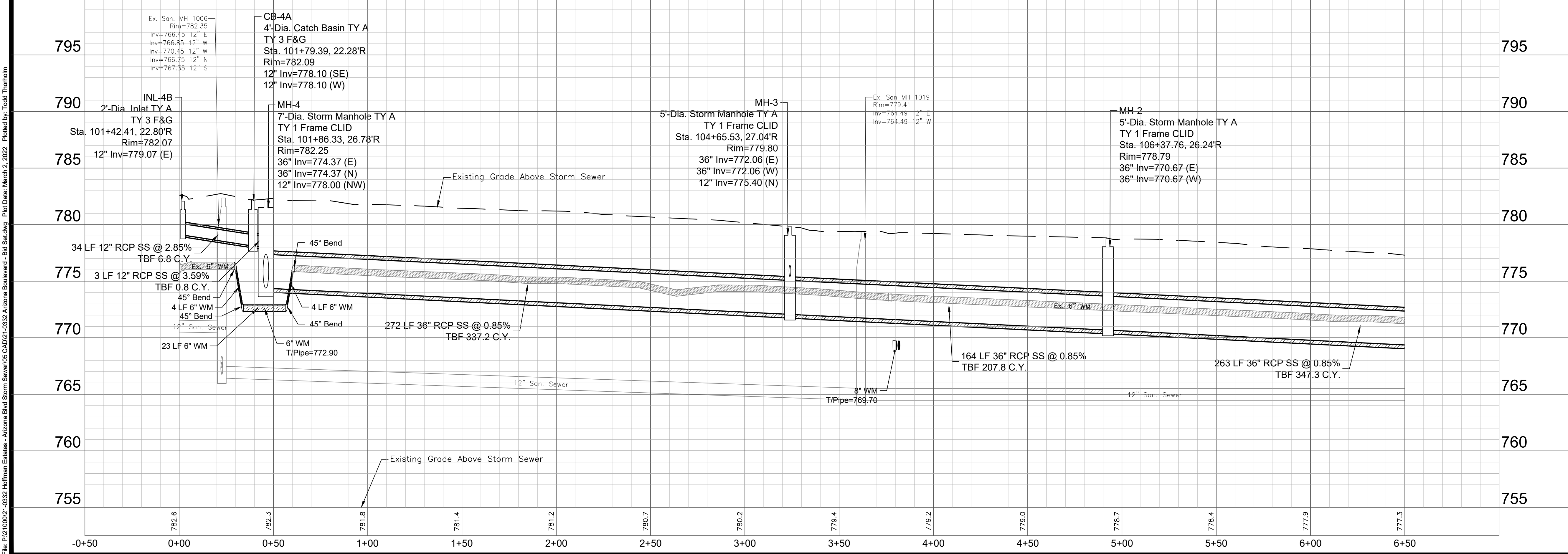


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**Arizona Boulevard Storm  
 Sewer Replacement Project  
 Village of Hoffman Estates**

**Plan and Profile  
 Arizona Boulevard  
 Sta. 101+23 to Sta. 108+00**

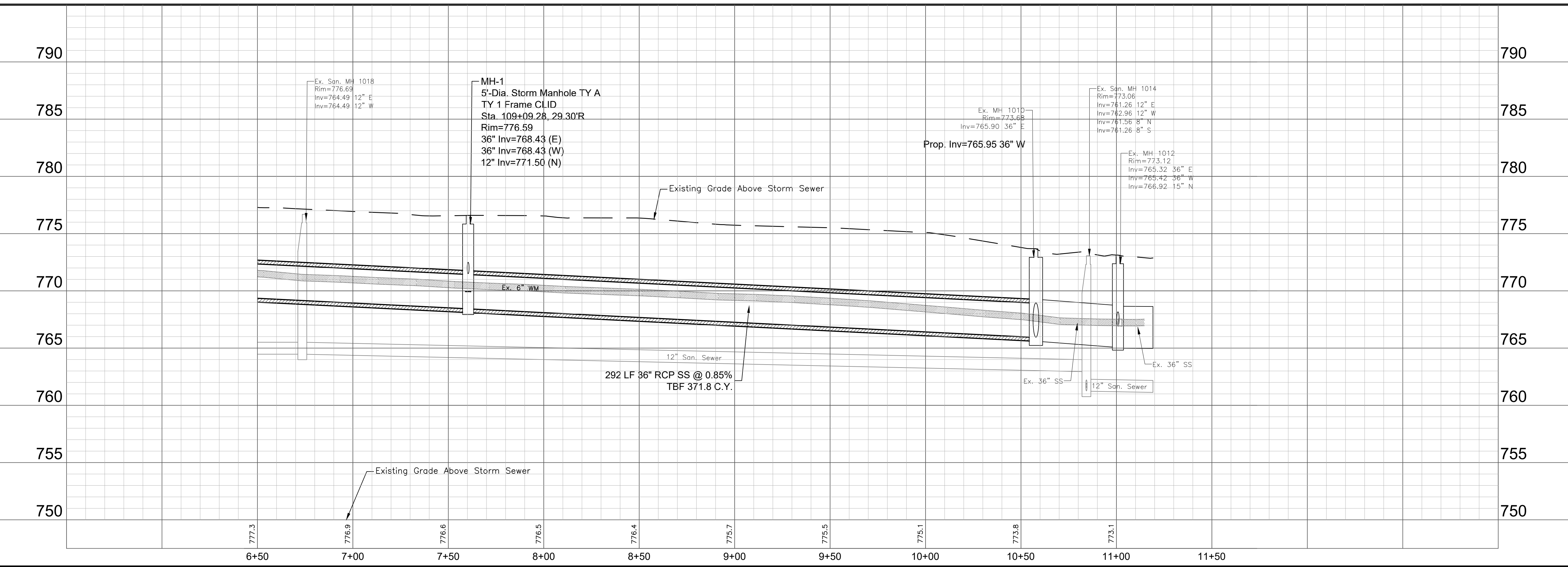
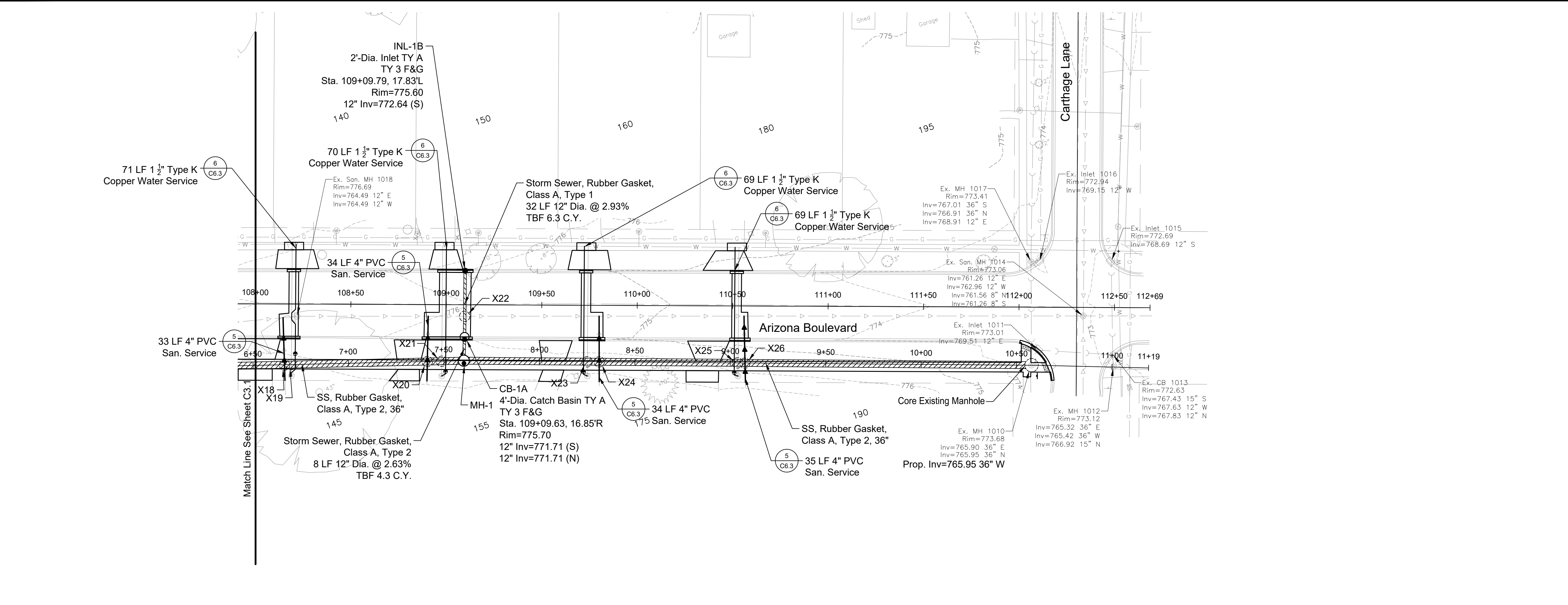
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DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML		
ISSUE DATE:	3/2/2022	7	of 17

**Bid Set**

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0 30 60  
Scale in Feet

LEGEND

No.	Revision/Issue	Date

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PROFESSIONAL DESIGN FIRM  
LICENSE N.O. 184-002429

**Arizona Boulevard Storm Sewer Replacement Project**  
Village of Hoffman Estates

Plan and Profile  
Arizona Boulevard  
Sta. 108+00 to Sta. 112+69

PROJECT NO: 21-0332	DRAWING NO:
DESIGNED BY: TCT	<b>C3.2</b>
DRAWN BY: TCT, MAA	
CHECKED BY: PML	
APPROVED BY: PML	SHEET NO:
ISSUE DATE: 3/2/2022	8 of 17

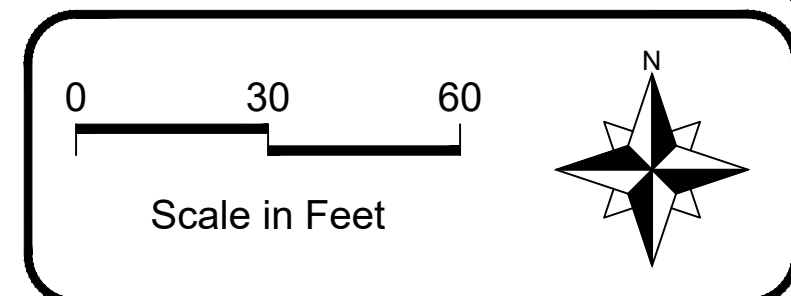
Bid Set

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**Utility Crossing Conflicts**

#	Location	Approximate Station	Top Pipe	Top Pipe Bottom Elevation	Bottom Pipe	Bottom Pipe Crown Elevation	Difference (Feet)	Notes
X01	Cumberland Street	208+00, 23' L	4" Gas	*	36" Storm	778.17	*	Nicor to relocate gas main.
X02	Cumberland Street	208+05, 23' L	36" Storm	774.47	6" Watermain	772.90	1.55	Lower watermain under storm sewer. Minimum 18" separation.
X03	Cumberland Street	208+38, 23' L	36" Storm	774.21	12" Sanitary	767.34	6.85	No conflict.
X04	Cumberland Street	101+63, 23' R	12" Storm	778.36	12" Sanitary	768.43	9.90	No conflict.
X05	Arizona Boulevard	101+91, 27' R	2" Gas	*	36" Storm	777.67	*	Nicor to relocate gas main.
X06	Arizona Boulevard	102+47, 27' R	36" Storm	773.54	Water Service	772.06	1.50	Replace water service.
X07	Arizona Boulevard	103+04, 28' R	6" Sanitary Service	*	36" Storm	776.73	*	*Contractor to verify location and elevation in field.
X08	Arizona Boulevard	103+79, 28' R	6" Sanitary Service	*	36" Storm	776.10	*	*Contractor to verify location and elevation in field.
X09	Arizona Boulevard	104+09, 28' R	36" Storm	772.18	Water Service	770.69	1.50	Replace water service.
X10	Arizona Boulevard	104+61, 6' R	12" Storm Sewer	775.63	12" Sanitary	765.77	9.84	No conflict.
X11	Cumberland Street	207+37, 22' L	36" Storm	774.95	Water Service	773.45	1.50	Replace water service.
X12	Arizona Boulevard	104+73, 27' R	2" Gas	*	36" Storm	775.33	*	Nicor to relocate gas main
X13	Arizona Boulevard	105+24, 29' R	36" Storm Sewer	771.25	8" Watermain	769.70	1.55	Lower watermain under storm sewer. Minimum 18" separation.
X14	Arizona Boulevard	105+99, 28' R	36" Storm	770.65	Water Service	769.15	1.50	Replace water service.
X15	Arizona Boulevard	106+41, 27' R	6" Sanitary Service	*	36" Storm	773.97	*	*Contractor to verify location and elevation in field.
X16	Arizona Boulevard	107+34, 32' R	6" Sanitary Service	*	36" Storm	773.21	*	*Contractor to verify location and elevation in field.
X17	Arizona Boulevard	107+36, 32' R	36" Storm	769.53	Water Service	768.03	1.50	Replace water service.
X18	Arizona Boulevard	108+15, 32' R	6" Sanitary Service	*	36" Storm	772.55	*	*Contractor to verify location and elevation in field.
X19	Arizona Boulevard	108+19, 32' R	36" Storm	768.86	Water Service	767.36	1.50	Replace water service.
X20	Arizona Boulevard	108+90, 30' R	6" Sanitary Service	*	36" Storm	771.92	*	*Contractor to verify location and elevation in field.
X21	Arizona Boulevard	108+98, 30' R	36" Storm	768.19	Water Service	766.69	1.50	Replace water service.
X22	Arizona Boulevard	109+10, 6' R	12" Storm	771.83	12" Sanitary	765.19	6.61	No conflict.
X23	Arizona Boulevard	109+74, 30' R	36" Storm	767.55	Water Service	766.05	1.50	Replace water service.
X24	Arizona Boulevard	109+80, 30' R	6" Sanitary Service	*	36" Storm	771.17	*	*Contractor to verify location and elevation in field.
X25	Arizona Boulevard	110+53, 30' R	36" Storm	766.89	Water Service	765.39	1.50	Replace water service.
X26	Arizona Boulevard	110+56, 30' R	6" Sanitary Service	*	36" Storm	770.52	*	*Contractor to verify location and elevation in field.
X27	Cumberland Street	207+40, 22' L	6" Sanitary Service	*	36" Storm	778.63	*	*Contractor to verify location and elevation in field.



LEGEND		
No.	Revision/Issue	Date

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 PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-002429

**Arizona Boulevard Storm  
 Sewer Replacement Project  
 Village of Hoffman Estates**

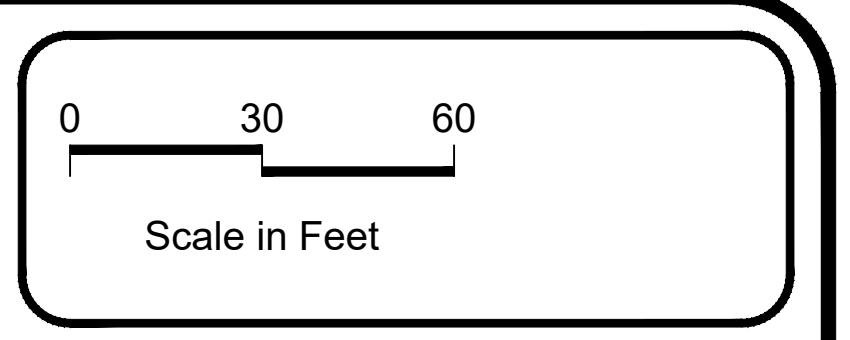
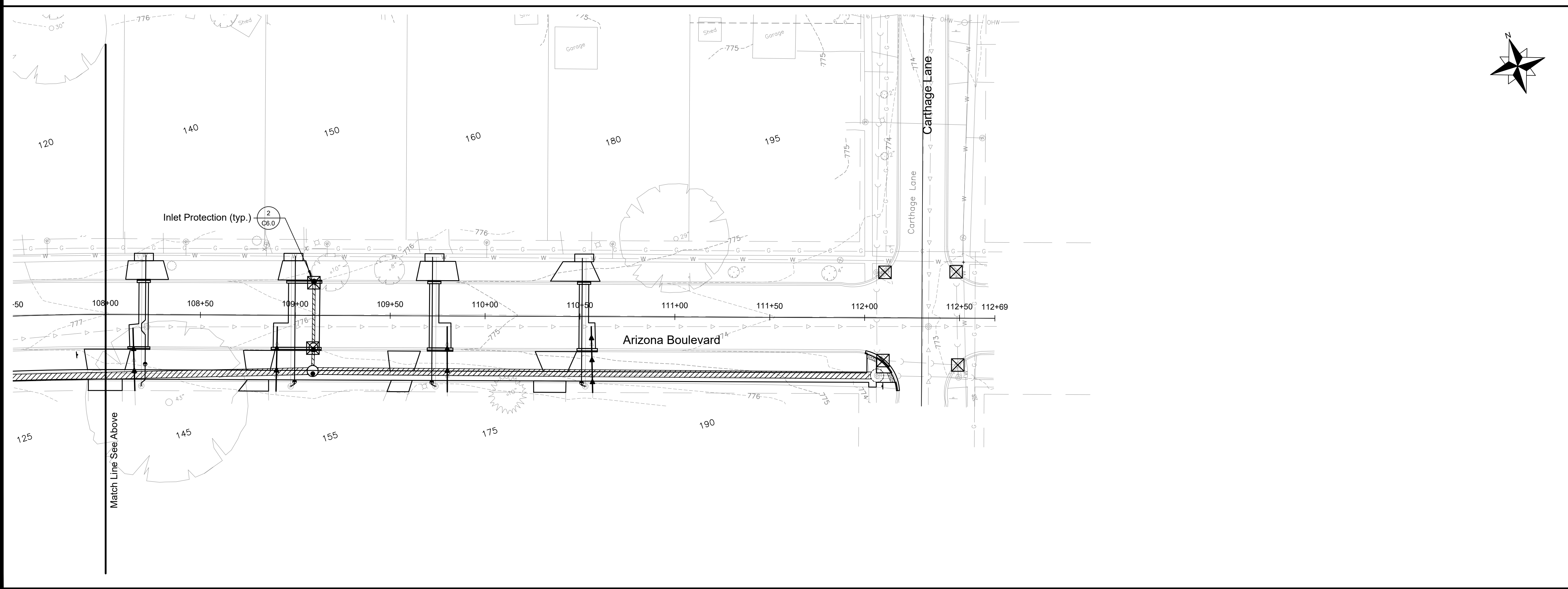
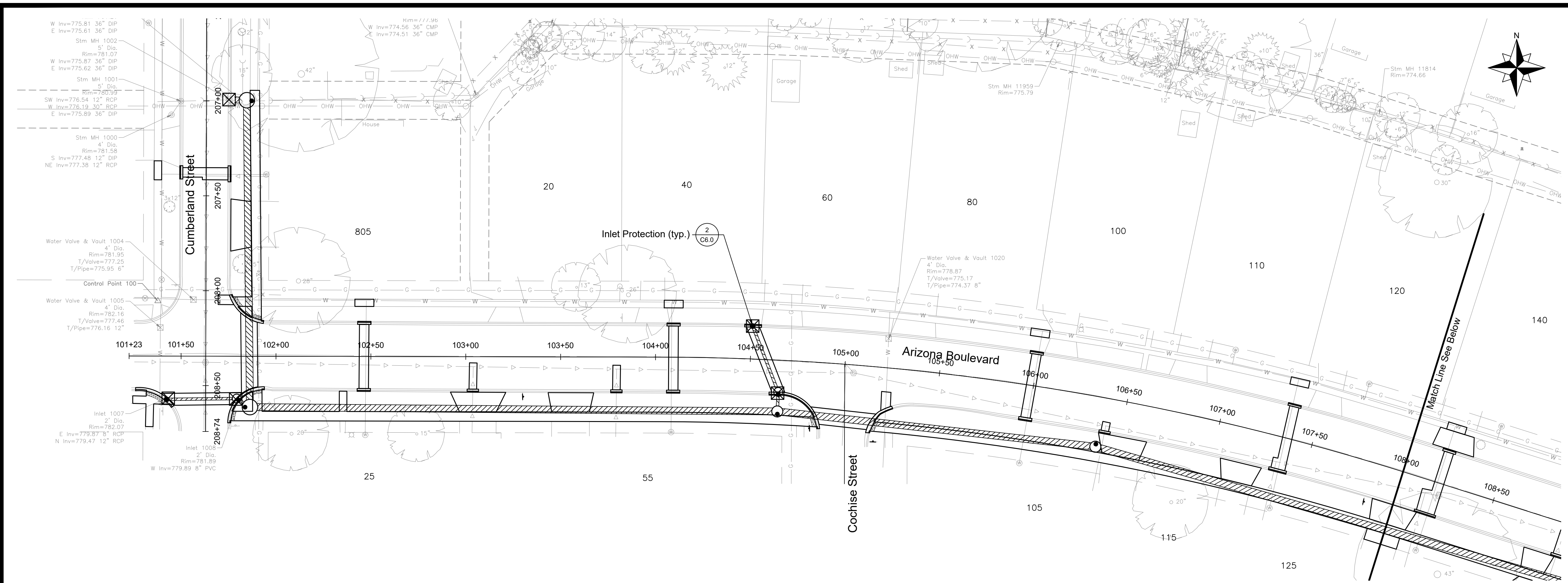
Utility Crossings

PROJECT NO:	21-0332	DRAWING NO:	<b>C3.3</b>
DESIGNED BY:	TCT		
DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML	SHEET NO:	
ISSUE DATE:	3/2/2022	9	of 17

**Bid Set**

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**LEGEND**

- SF — SF — Silt Fence
- CF — CF — Construction Fence
- TPF — TPF — Tree Protection Fence
- ☒ Inlet Protection

No.	Revision/Issue	Date

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**Arizona Boulevard Storm Sewer Replacement Project**  
 Village of Hoffman Estates

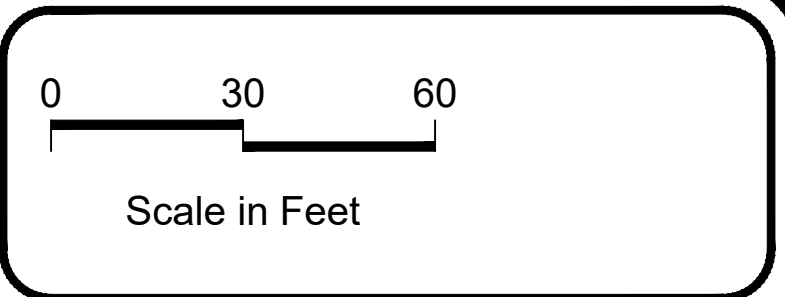
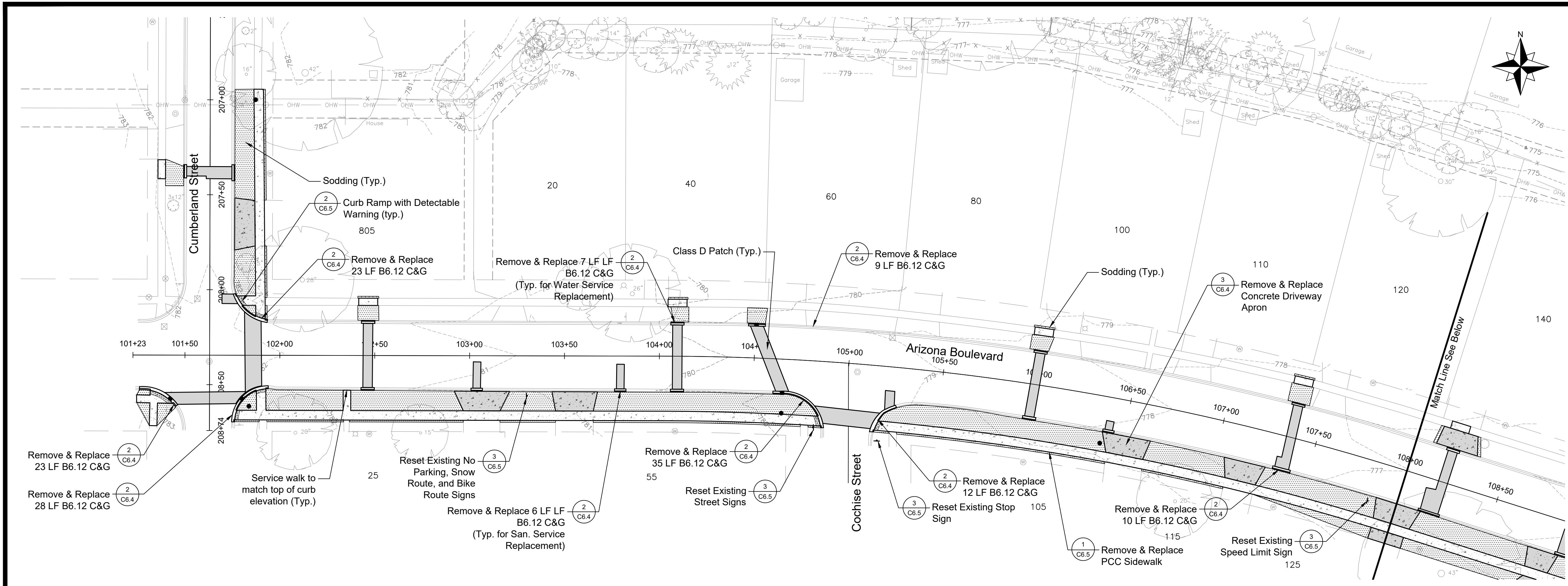
**Soil Erosion and Sediment Control Plan**

PROJECT NO:	21-0332	DRAWING NO:	<b>C4.0</b>
DESIGNED BY:	TCT		
DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML	SHEET NO:	
ISSUE DATE:	3/2/2022	10	of 17

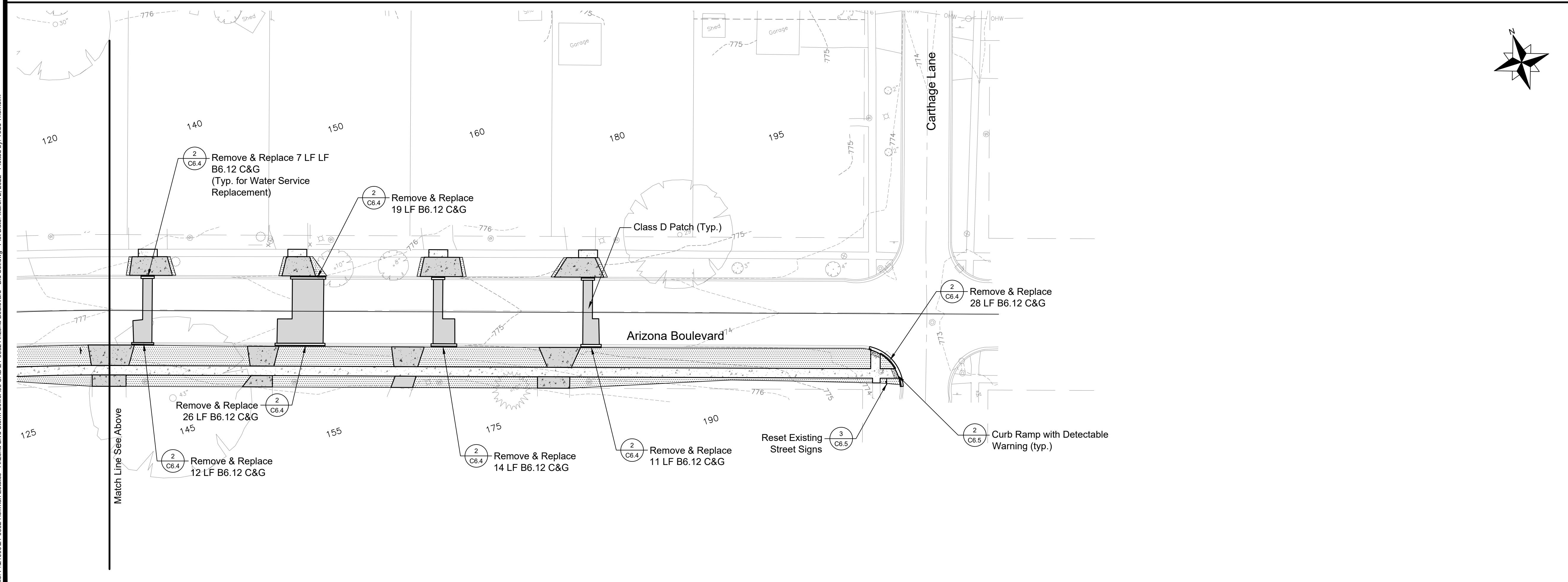
**Bid Set**

File: P:\2100021-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Pkg Date: March 2, 2022 Plotted by: Todd Thornholm

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LEGEND		
Curb & Gutter		
Depressed Curb & Gutter		
Class D Patch		
Concrete Driveway Apron (See Detail 3, C6.4)		
PCC Sidewalk (See Detail 1, C6.5)		
Detectable Warning (See Details 2, C6.5)		
6" Topsoil and Salt Tolerant Sod		
No.	Revision/Issue	Date



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**Arizona Boulevard Storm Sewer Replacement Project**  
 Village of Hoffman Estates

**Restoration Plan**

PROJECT NO:	21-0332	DRAWING NO:	<b>C5.0</b>
DESIGNED BY:	TCT	SHEET NO:	
DRAWN BY:	TCT, MAA	11 of 17	
CHECKED BY:	PML		
APPROVED BY:	PML		
ISSUE DATE:	3/2/2022		

**Bid Set**

TREE PROTECTION FENCING SHALL CONSIST OF WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. EROSION CONTROL FENCING IN CONJUNCTION WITH TREE PROTECTION FENCING MUST NOT BE TRENCHED INTO THE GROUND. AN ALTERNATE VILLAGE APPROVED METHOD MUST BE UTILIZED. AT A MINIMUM, SIGNS WHICH ARE LEGIBLE AT 10 FEET SHALL BE POSTED AND MAINTAINED AT INTERVALS NO LESS THAN 30 FT. WHICH CLEARLY STATE: "TREE PROTECTION AREA. DO NOT ENTER. DO NOT MOVE OR ALTER FENCE. VIOLATION SUBJECT TO FINE OR WORK STOPPAGE."

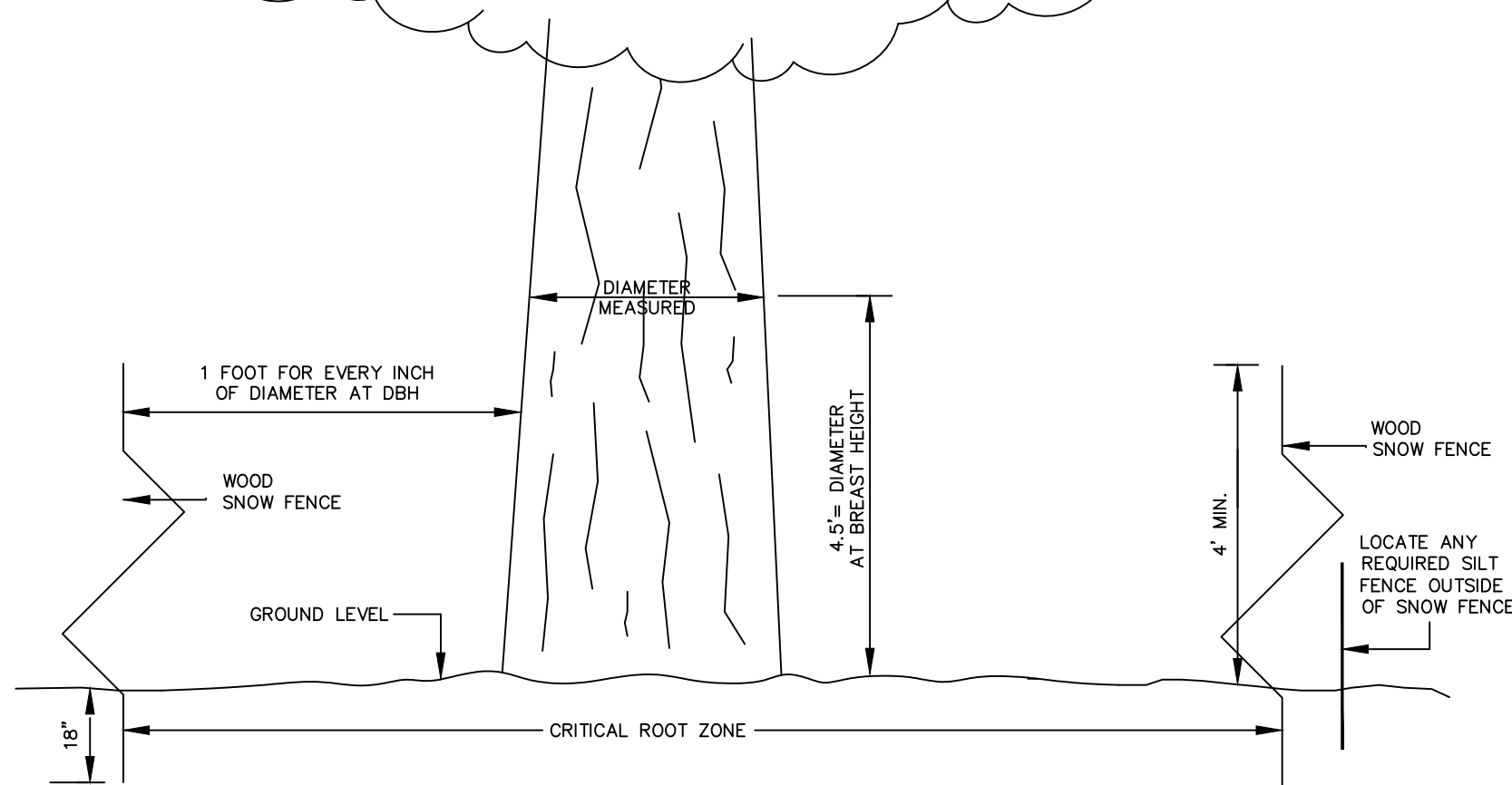
THE VILLAGE MAY, AT ITS OPTION, INSTALL THE FENCING UTILIZING FUNDS DEPOSITED WITH THE VILLAGE BY THE DEVELOPER FOR THAT PURPOSE. ALL TREE PROTECTION FENCING MUST BE INSTALLED AND MAINTAINED PRIOR TO ANY CONSTRUCTION AS APPROVED BY THE VILLAGE AS PART OF THE APPROVAL PROCESS. IN NO CASE SHALL TREE PROTECTION FENCING BE REMOVED, BREACHED, TEMPORARILY REMOVED, ALTERED, OR RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE.

THE REMOVAL, TEMPORARY REMOVAL, ALTERATION OR RELOCATION OF AN INSTALLED TREE PROTECTION FENCE WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE SHALL INCUR A PENALTY OF \$100.00 PER OCCURRENCE. THE DEVELOPER/BUILDER SHALL BE RESPONSIBLE FOR PAYING THIS PENALTY.

ENTERING A TREE PRESERVATION AREA THAT WAS REQUIRED TO BE FENCED SHALL RESULT IN AN ADDITIONAL PENALTY OF \$50 PER DIAMETER INCH FOR ANY TREE THAT IS DAMAGED IN THE OPINION OF THE VILLAGE, INCLUDING, BUT NOT LIMITED TO, GRADING, TRENCHING, LIMB OR BARK REMOVAL, STORAGE OF MATERIALS OR PARKING OF VEHICLES. THE COST OF ANY NECESSARY REMEDIAL TREE CARE ACTION, IN THE OPINION OF THE VILLAGE, SHALL BE THE RESPONSIBILITY OF THE BUILDER/DEVELOPER.

NOTE:

INSTALL & MAINTAIN 4' TALL WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. FENCE TO BE LOCATED AT A DISTANCE FROM TRUNK EQUAL TO 1 FOOT FOR EVERY INCH OF DIAMETER MEASURED AT DBH (DIAMETER AT BREAST HEIGHT, 4.5' FROM GROUND LEVEL), AS SHOWN ON THE APPROVED SITE PLAN.



NOTE:

REFER TO THE VILLAGE OF HOFFMAN ESTATES' SUBDIVISION CODE SECTION 10-4-7 FOR FURTHER TREE PRESERVATION STANDARDS.

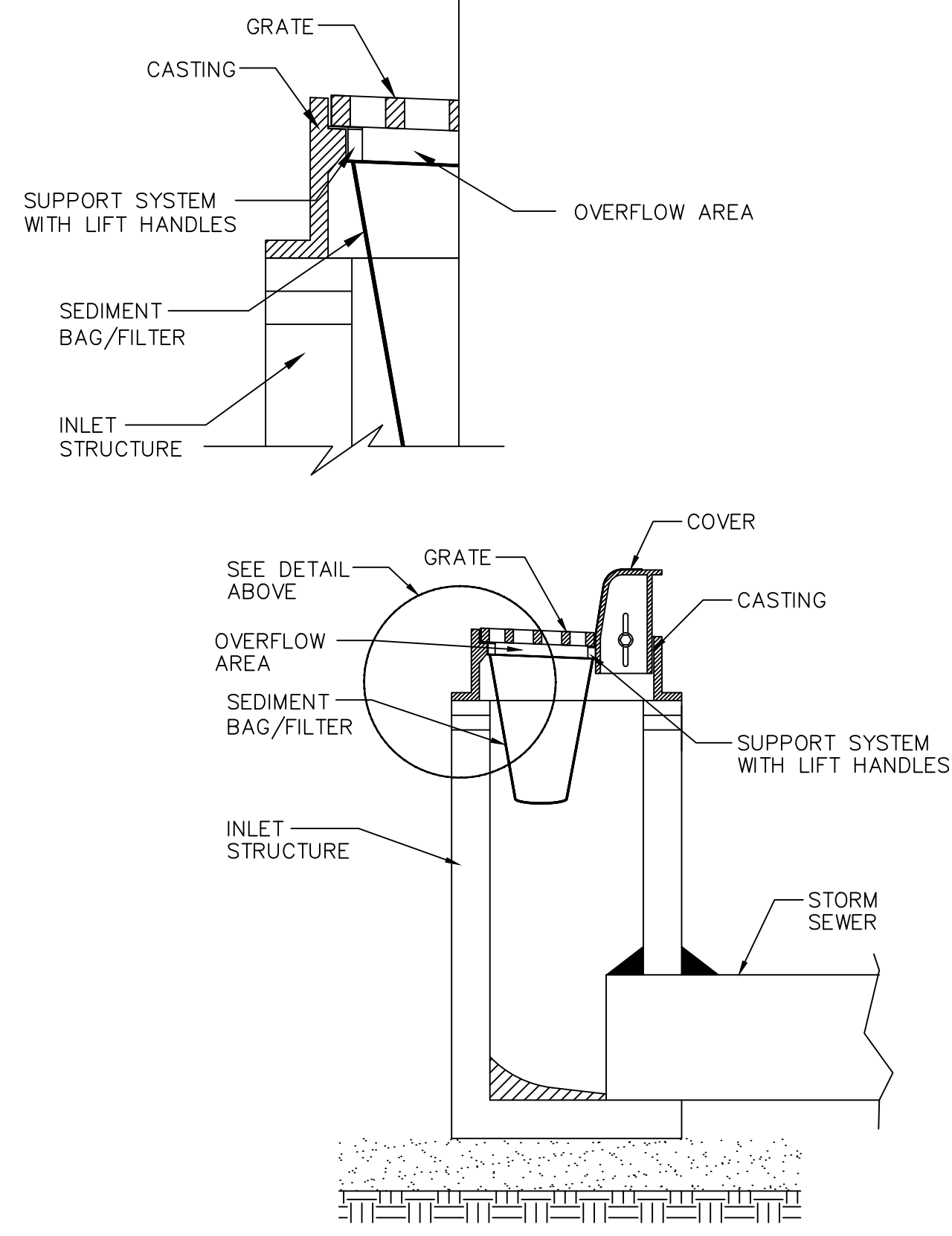
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DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES		FILE NAME:	SHEET NO.		
TRANSPORTATION & ENGINEERING DIVISION		TREEPROT.DWG	1 OF 1		

1

Tree Protection Detail  
(Not to Scale)

### INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



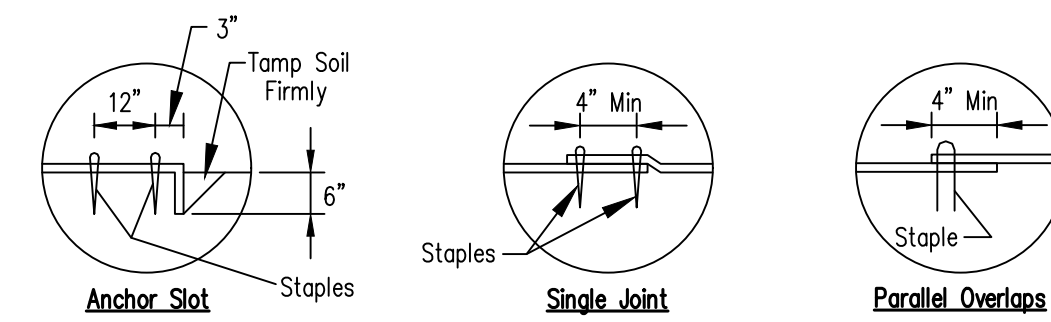
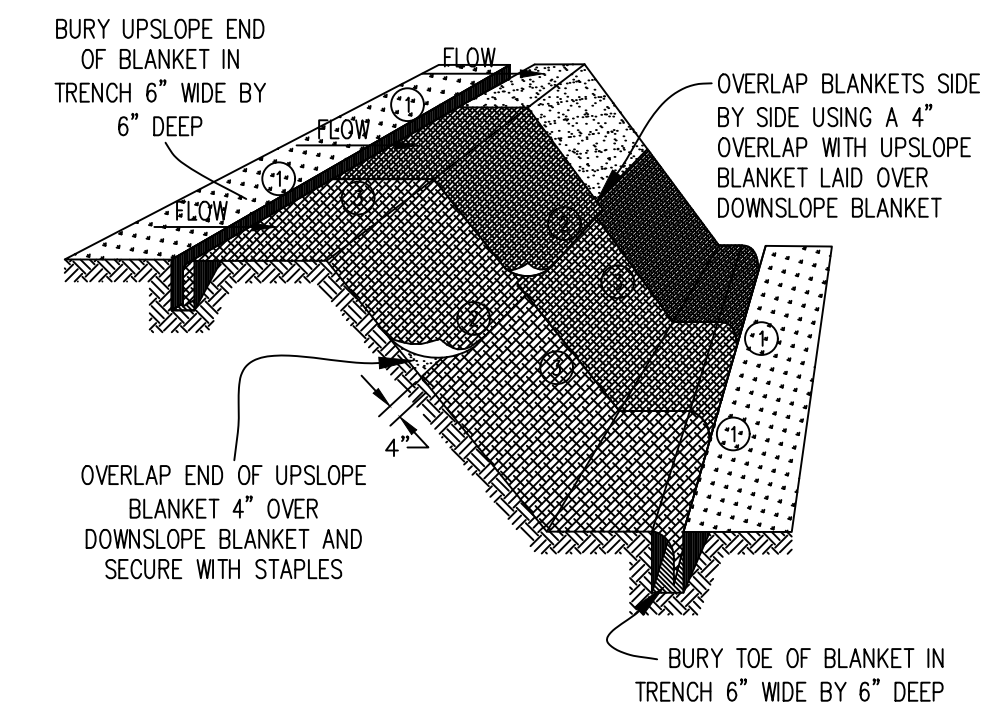
REFERENCE	Project	Designed	Date	Checked	Date	Approved	Date



STANDARD DWG. NO.  
IUM-561D  
SHEET 1 OF 1  
DATE 01-11-11

2

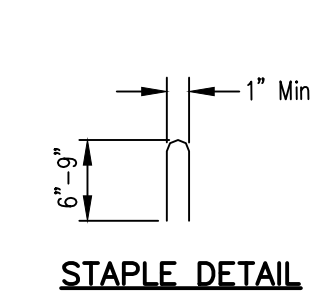
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(Not to Scale)



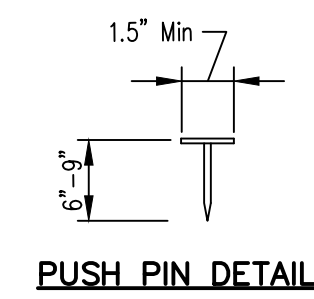
DETAIL 1

DETAIL 2

DETAIL 3



STAPLE DETAIL



PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

DESIGNED	DATE	Checked	DATE
Drawn B. JOHNSON	11/08	Approved	

### EROSION CONTROL BLANKET INSTALLATION DETAILS

3

Erosion Control Blanket Installation Detail  
(Not to Scale)

### Soil Protection Chart

Stabilization Chart	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Permanent Seedings		A				*	*		*			
Dormant Seedings	B										B	
Temporary Seedings			C			D						
Sodding			E **									
Mulching	F											

A - Kentucky Bluegrass  
90 lbs./ac. Mixed with  
Perennial Ryegrass  
30 lbs./ac.

C - Spring Oats 100 lbs./ac.  
D - Wheat or Cereal Ry

\* Irrigation needed during  
June, July and September

B - Kentucky Bluegrass  
135 lbs./ac. Mixed with  
Perennial Ryegrass  
45 lbs./ac. 2 tons

E - Sod (Nursery Grown  
Kentucky Bluegrass)

\*\* Irrigation needed for 2-3  
weeks after sodding

F - Straw Mulch  
2 tons per acre

ROADSIDE MIXTURE	IDOT 2
50% ALTA FESCUE OR KY 31	100#
25% PERENNIAL RYE GRASS	50#
20% CREEPING RED FESCUE	40#
5% RED TOP	10#
	200#/A
TEMPORARY SEED MIX	IDOT 7
56% SPRING OATS	64#
44% PERENNIAL RYEGRASS	50#
	114#/A

"COORDINATE SEED MIX WITH  
POLYACRYLAMIDE (PAM) POLYMER SPECIFIC  
TO AREA TO BE STABILIZED."

4

Temporary Stabilization During Growing Season  
Scale: NTS

Scale bar measures 1" at full scale



### LEGEND

No.	Revision/Issue	Date
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CHICAGO@HEYASSOC.COM

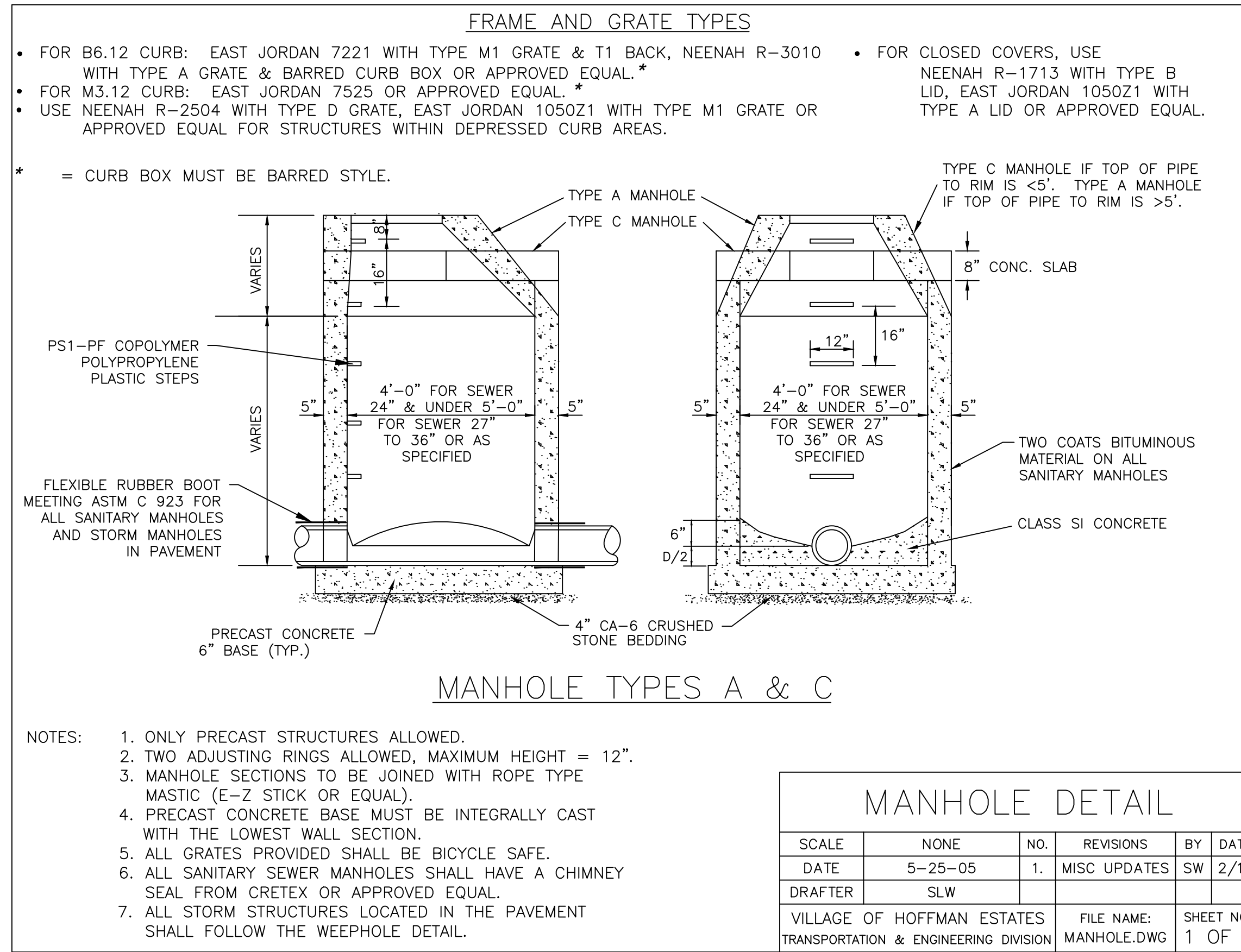
PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-002429

### Arizona Boulevard Storm Sewer Replacement Project Village of Hoffman Estates

### Details

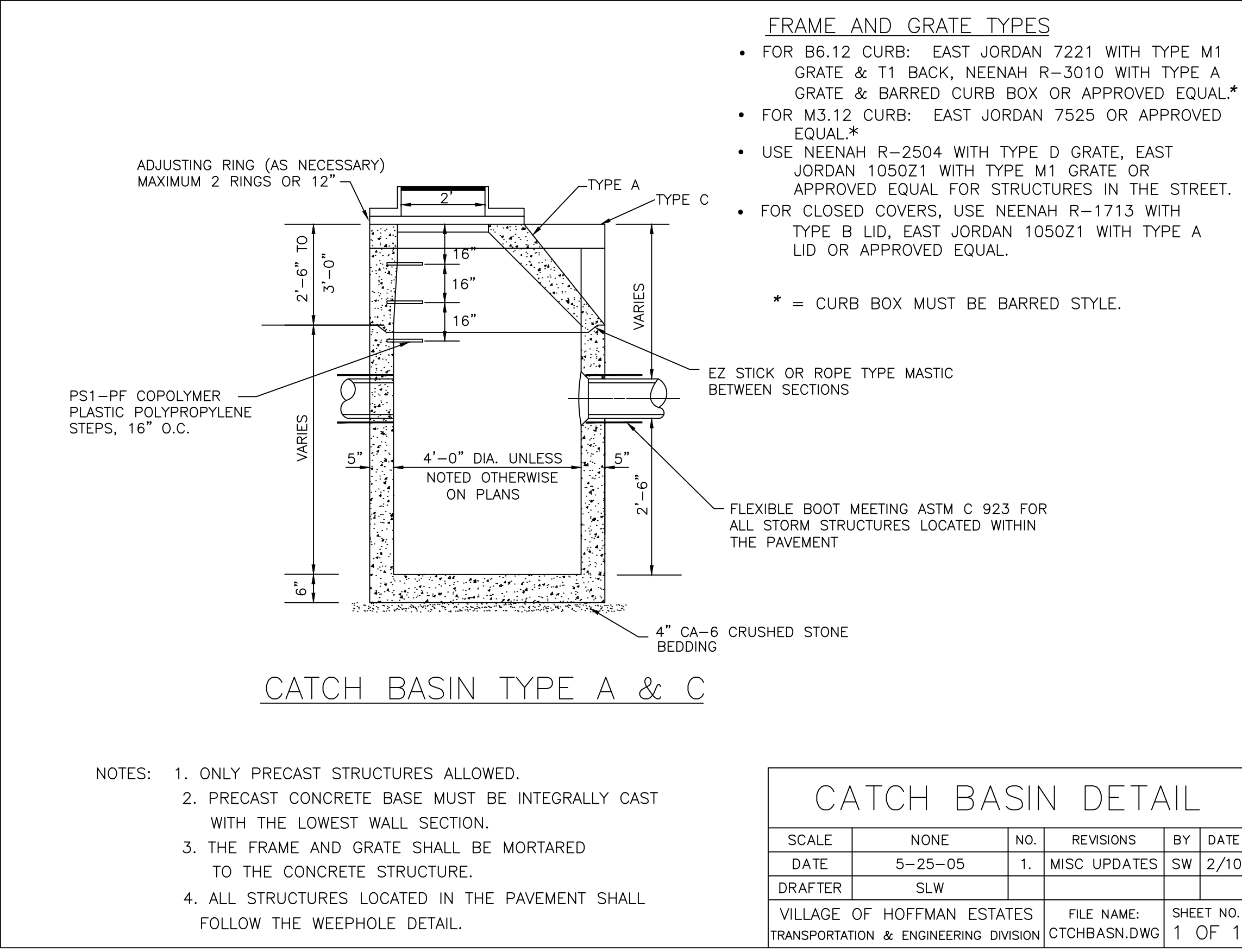
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DESIGNED BY	TCT	C6.0	
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	SHEET NO.	
ISSUE DATE	3/2/2022	12	OF 17

### Bid Set



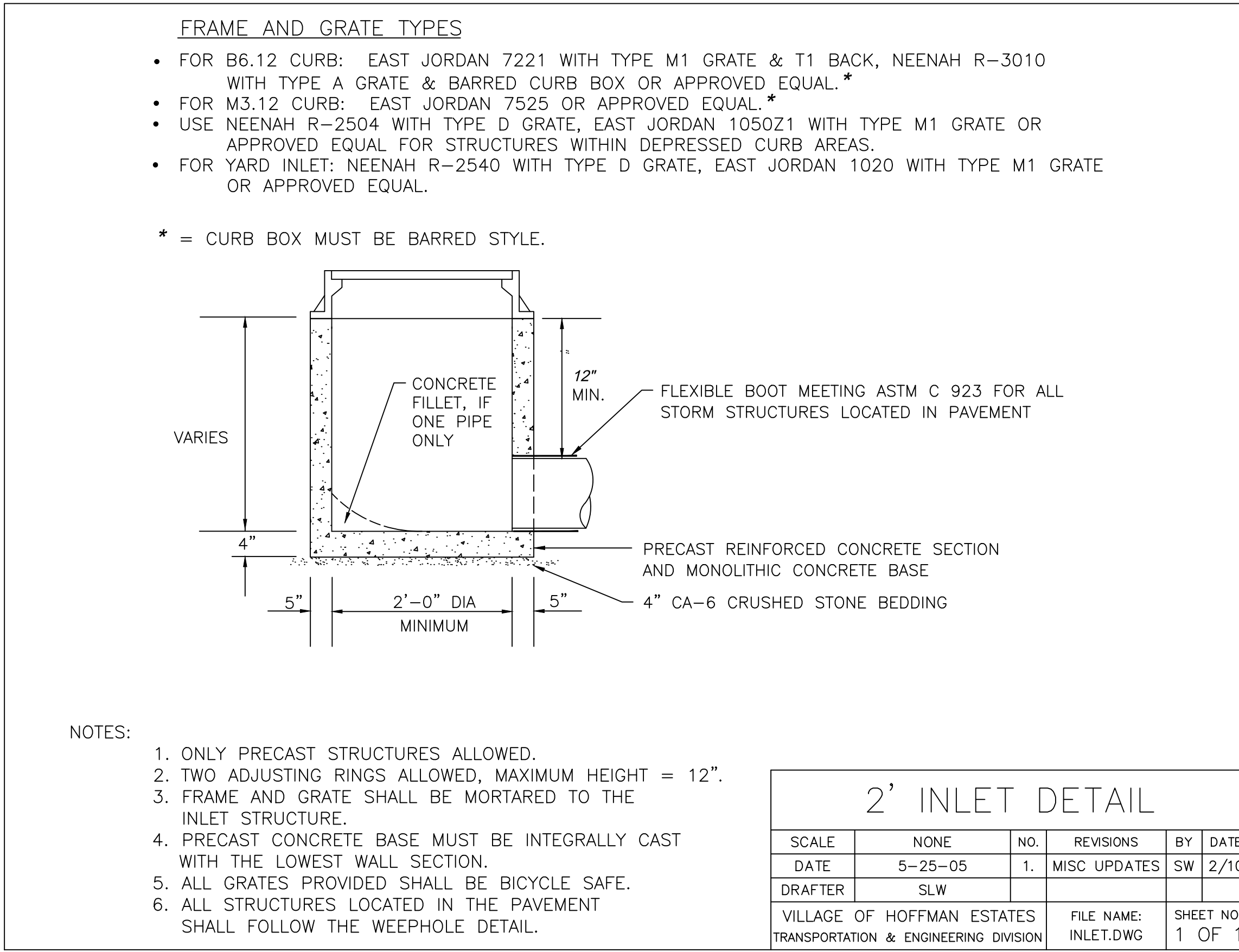
MANHOLE DETAIL					
SCALE	NONE	NO.		BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION		FILE NAME:	MANHOLE.DWG	SHEET NO.	1 OF 1

① **Manhole Detail**  
(Not to Scale)



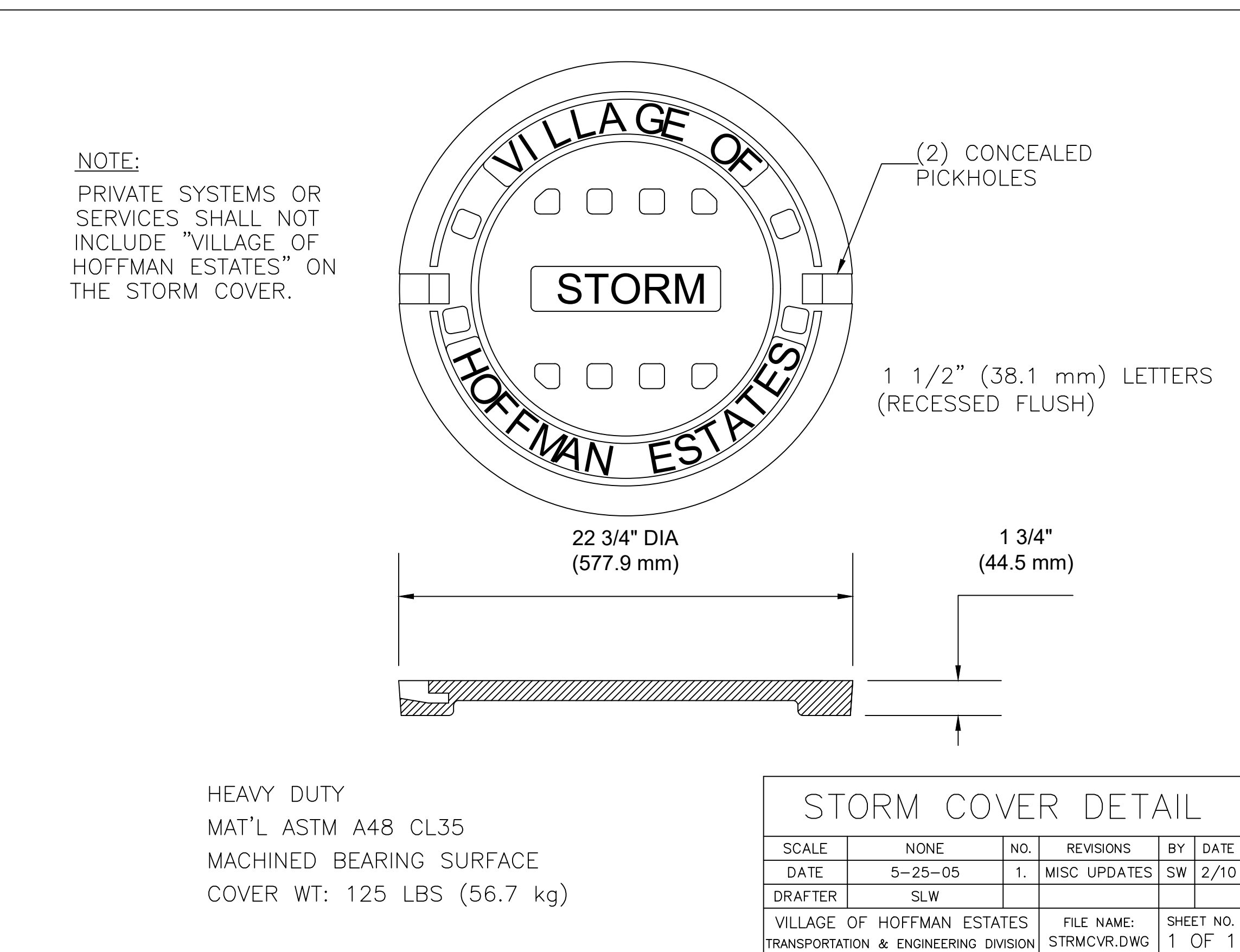
CATCH BASIN DETAIL					
SCALE	NONE	NO.		BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION		FILE NAME:	CTCHBASN.DWG	SHEET NO.	1 OF 1

② **Catch Basin Detail**  
(Not to Scale)



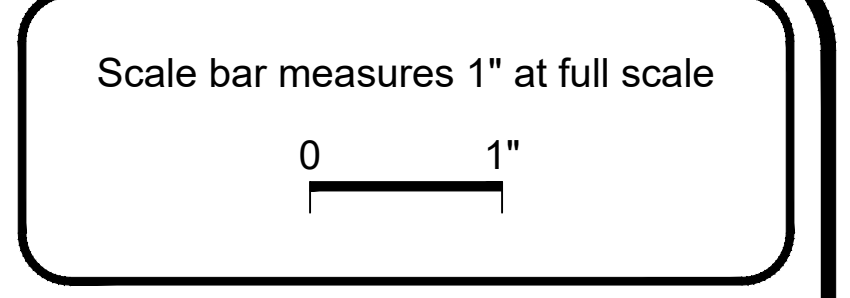
2' INLET DETAIL					
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DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION		FILE NAME:	INLET.DWG	SHEET NO.	1 OF 1

③ **Inlet Detail**  
(Not to Scale)



STORM COVER DETAIL					
SCALE	NONE	NO.		BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION		FILE NAME:	STRMCRV.DWG	SHEET NO.	1 OF 1

④ **Storm Cover Detail**  
(Not to Scale)



LEGEND		
No.	Revision/Issue	Date

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Engineering, Ecology and Landscape Architecture  
8755 W. HIGGINS ROAD, SUITE 835  
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PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-002429

**Arizona Boulevard Storm  
Sewer Replacement Project  
Village of Hoffman Estates**

Details

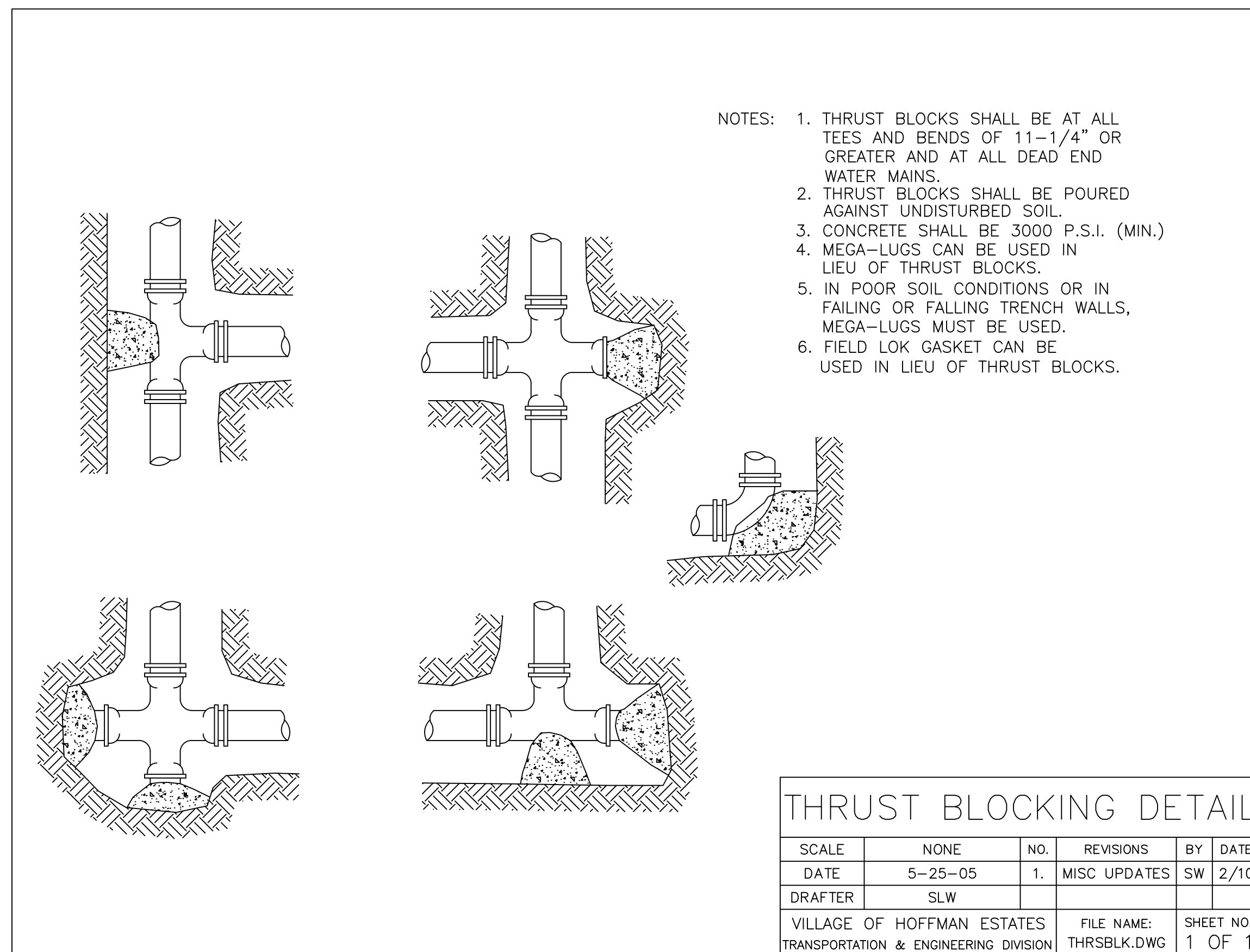
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DESIGNED BY	TCT	C6.1	
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	SHEET NO:	
ISSUE DATE	3/2/2022	13	OF 17

Bid Set

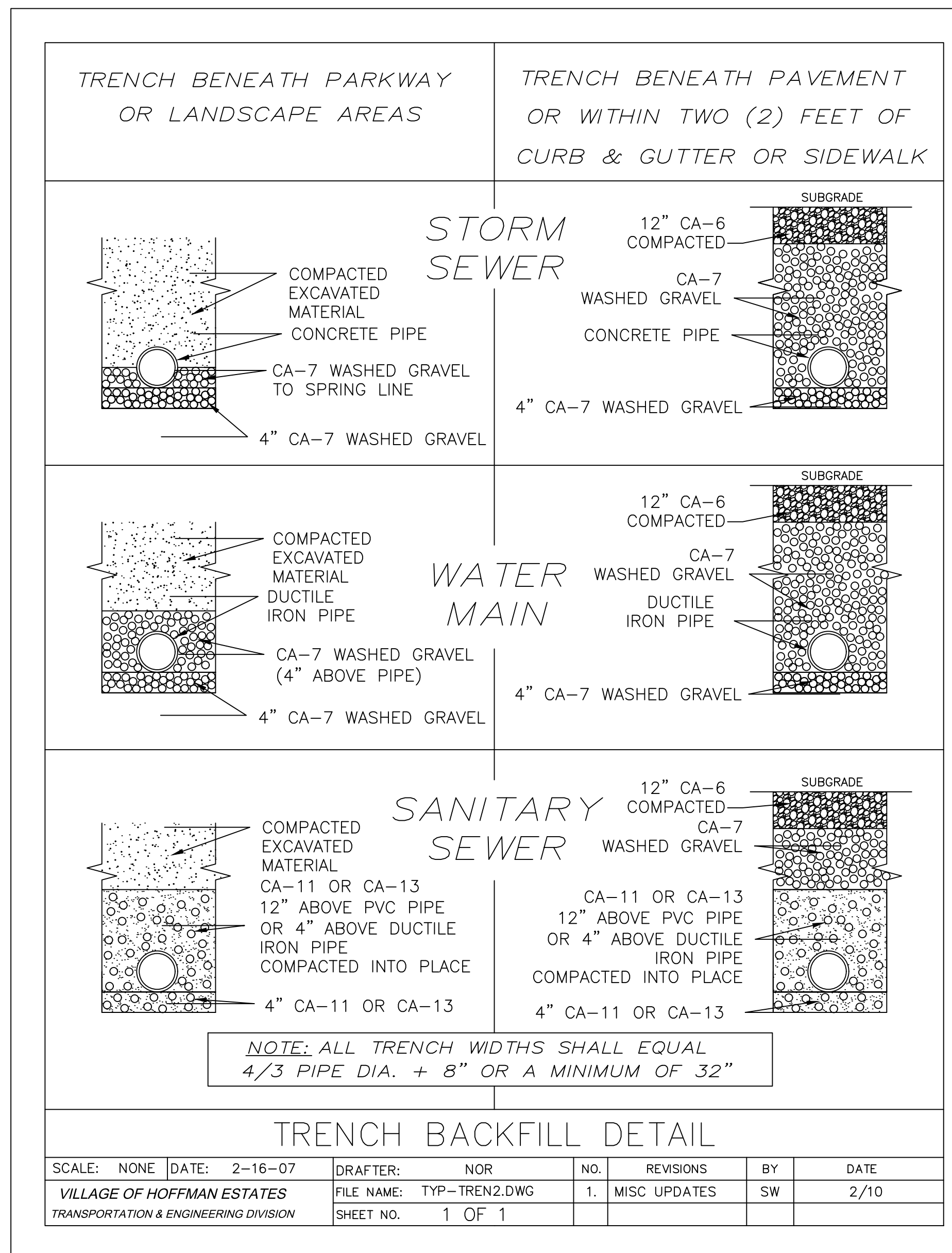
File: P:\210001-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Plot Date: March 2, 2022 Plotted by: Todd Thornhill

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File: P:\210001-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Plot Date: March 2, 2022 Plotted by: Todd Thornholm



① Thrust Blocking Detail  
(Not to Scale)



② Trench Backfill Detail  
(Not to Scale)

Scale bar measures 1" at full scale



LEGEND

No.	Revision/Issue	Date

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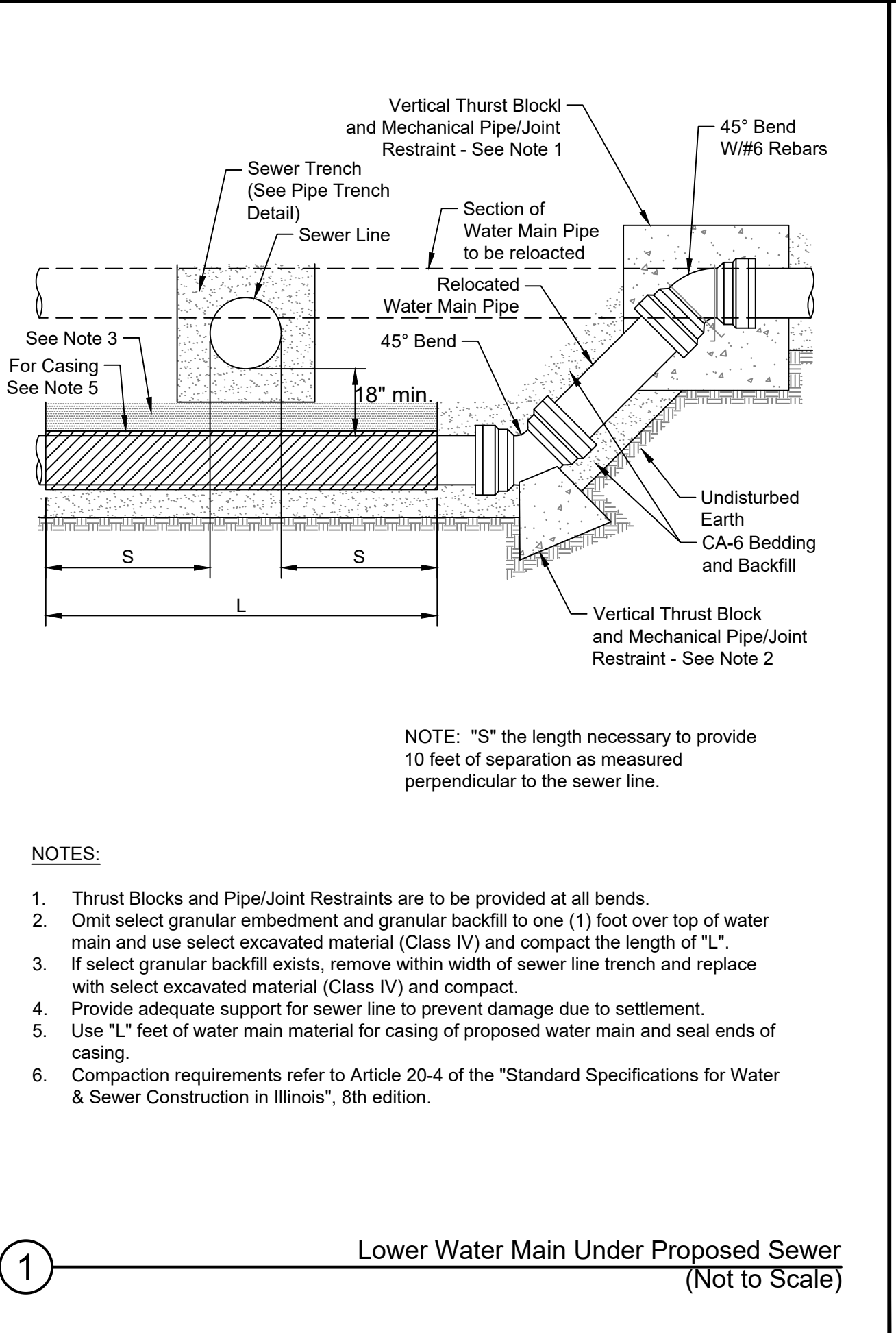
Arizona Boulevard Storm  
Sewer Replacement Project  
Village of Hoffman Estates

Details

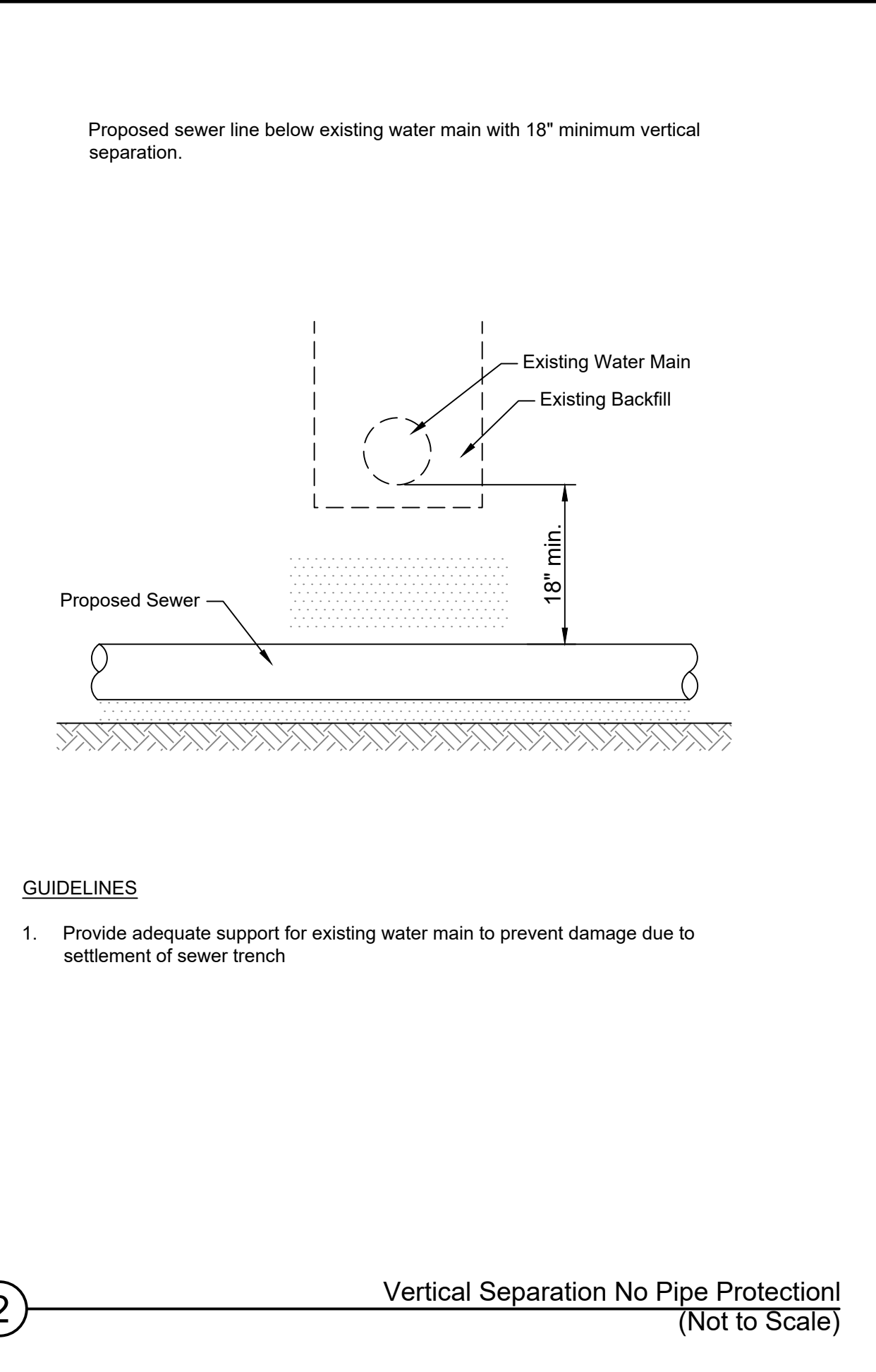
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DESIGNED BY	TCT	C6.2	
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	SHEET NO:	
ISSUE DATE	3/2/2022	14	OF 17

Bid Set

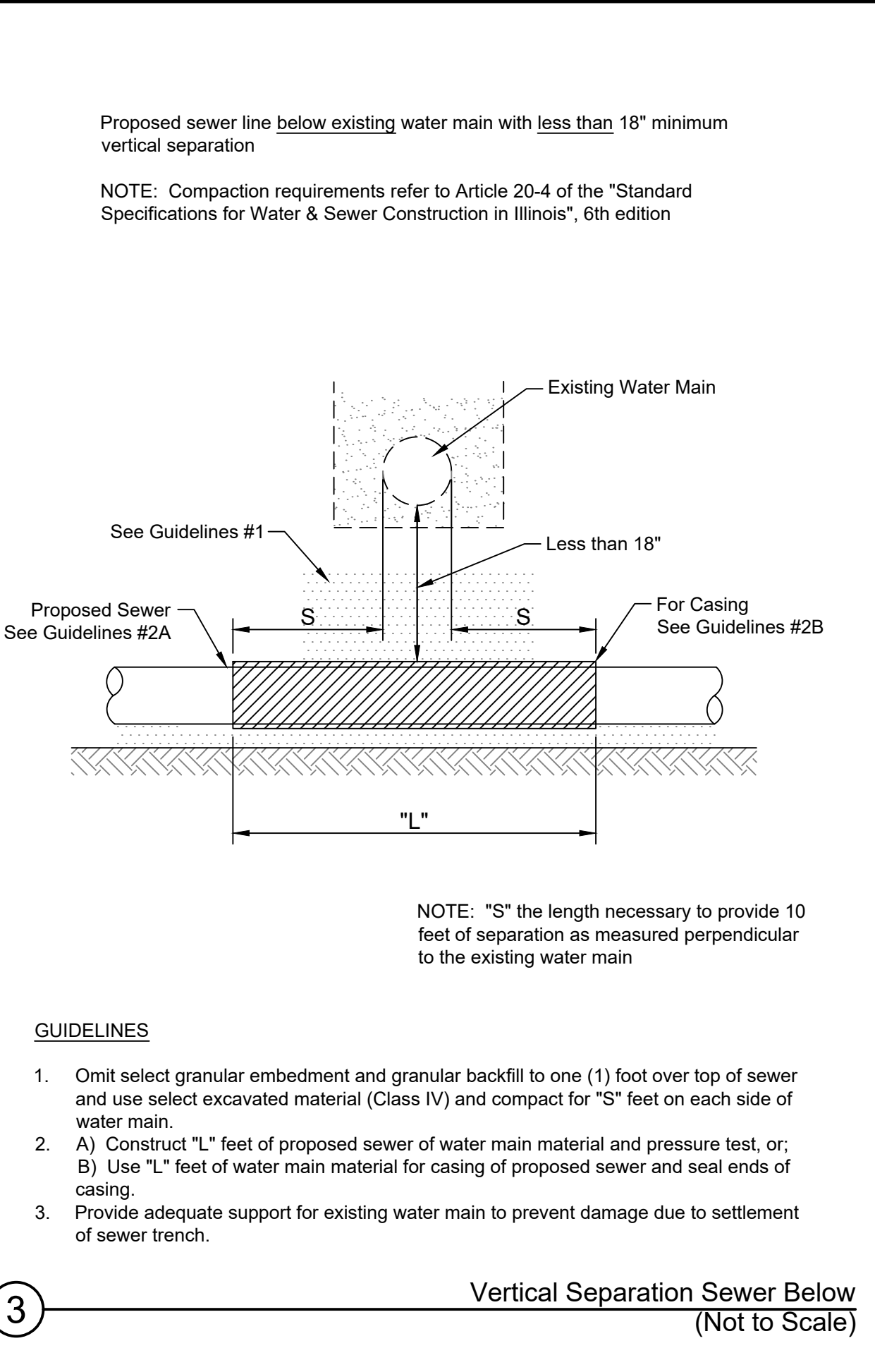
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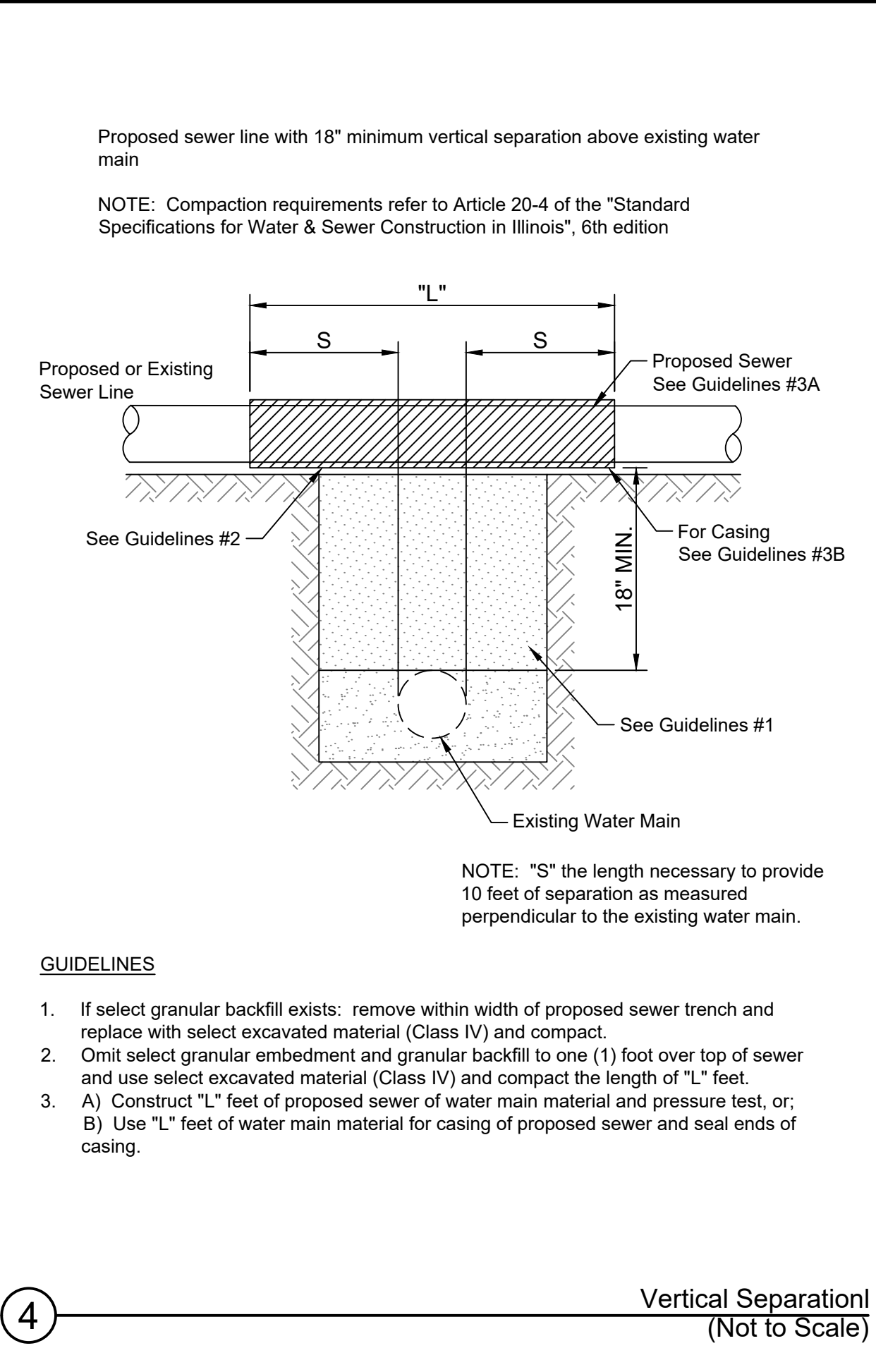
① Lower Water Main Under Proposed Sewer (Not to Scale)



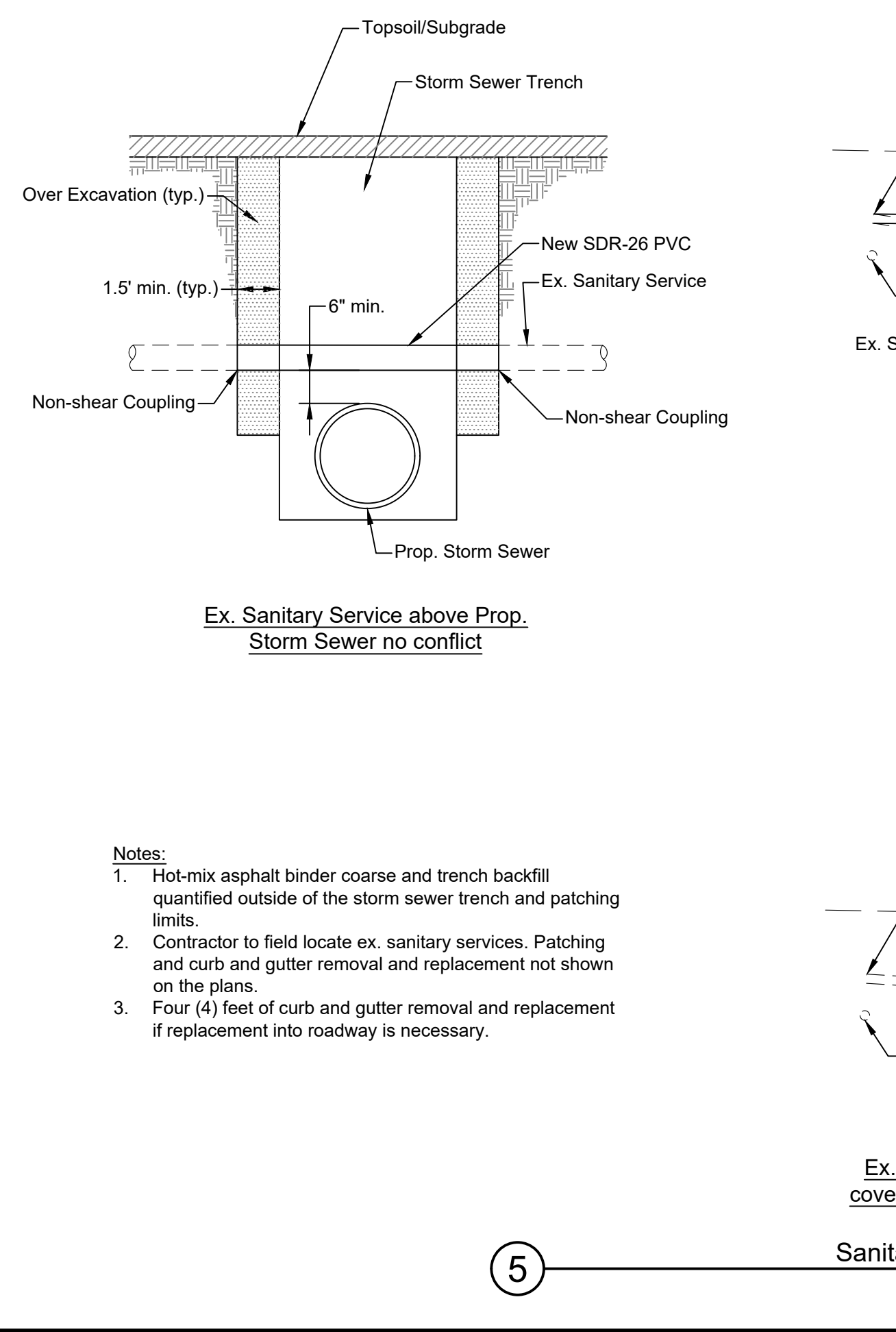
② Vertical Separation No Pipe Protection (Not to Scale)



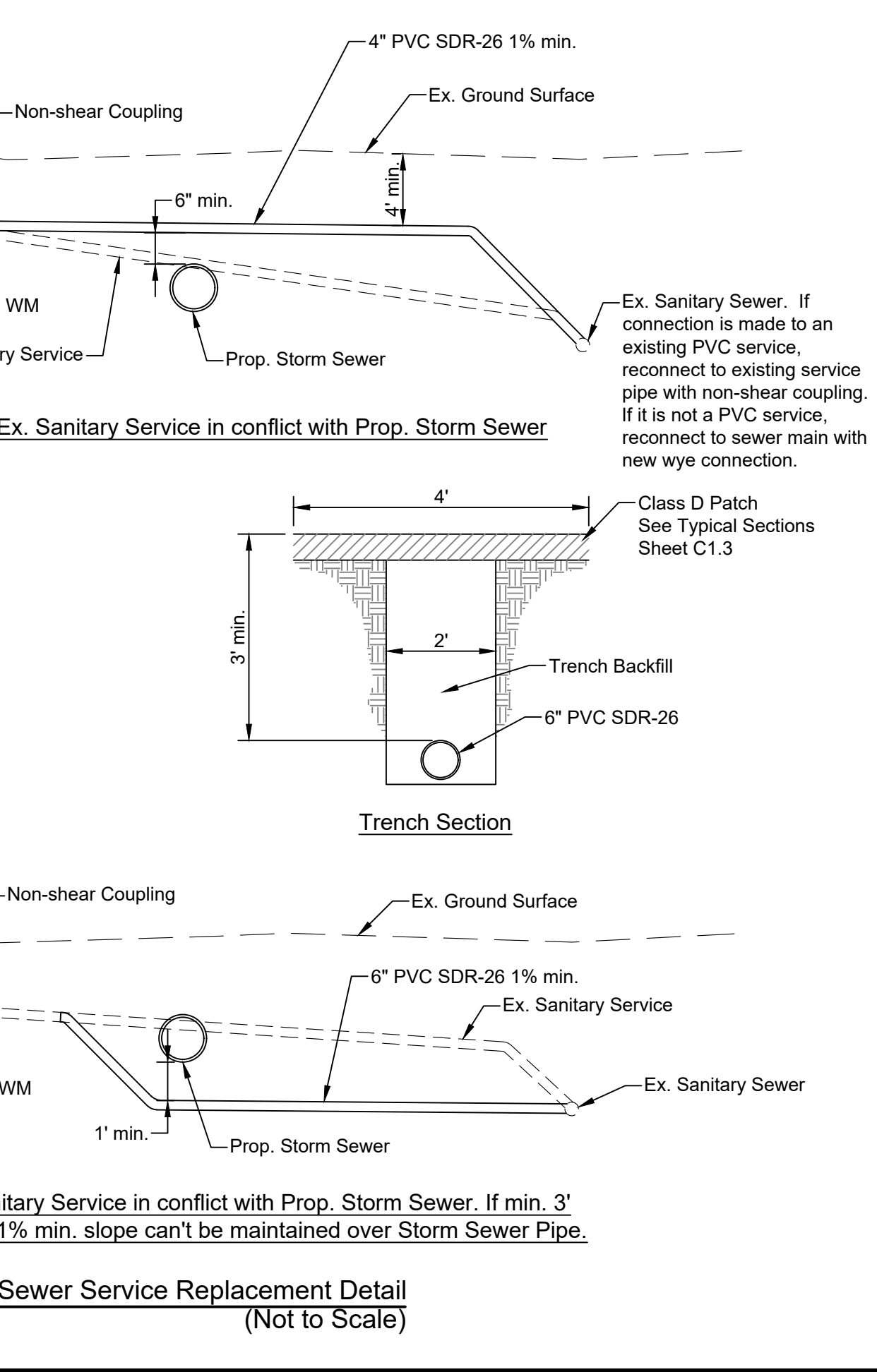
③ Vertical Separation Sewer Below (Not to Scale)



④ Vertical Separation (Not to Scale)



⑤ Sanitary Sewer Service Replacement Detail (Not to Scale)



⑥ Water Service Replacement Detail (Not to Scale)

Scale bar measures 1" at full scale

0 1"

LEGEND

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Arizona Boulevard Storm Sewer Replacement Project  
 Village of Hoffman Estates

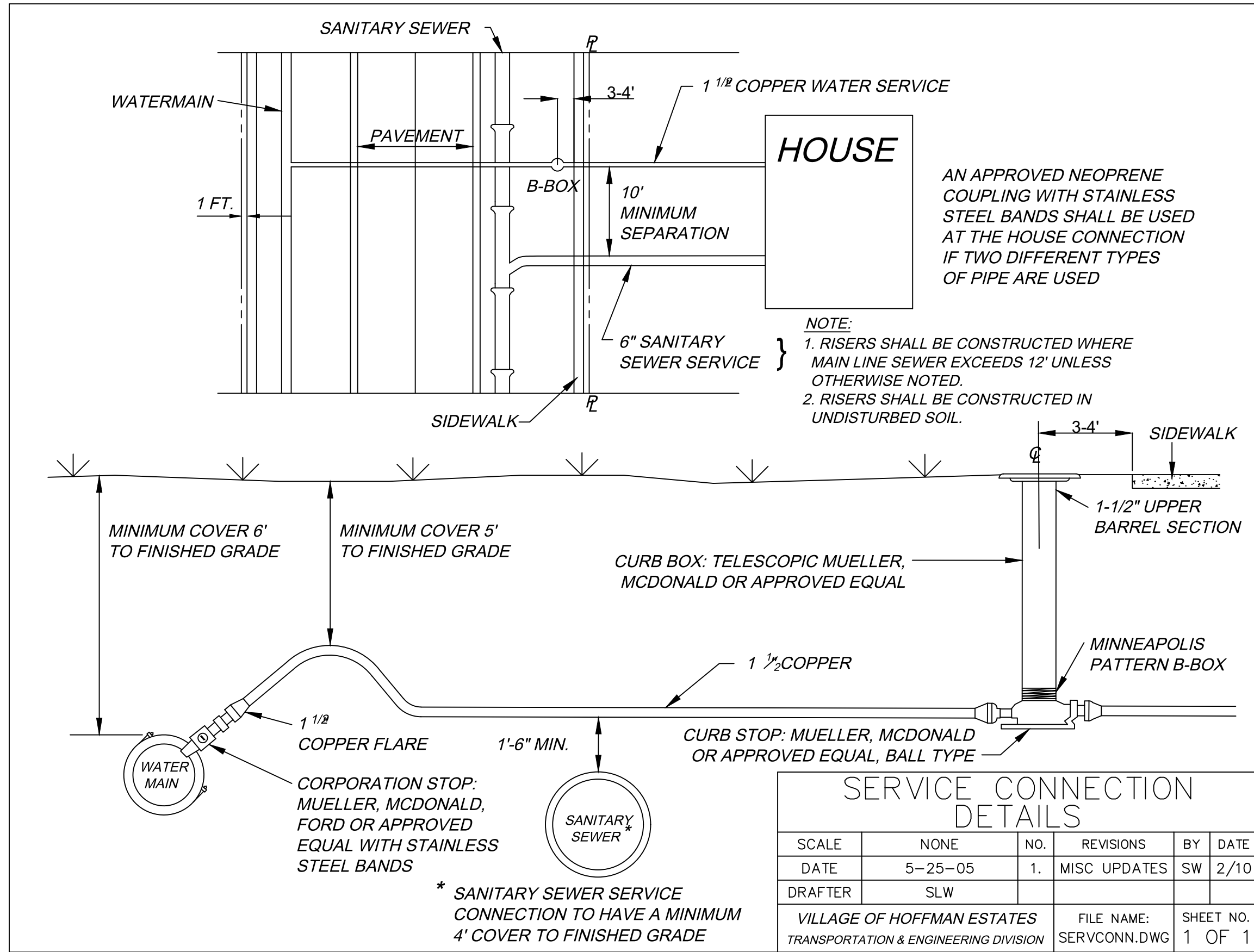
Details

PROJECT NO:	21-0332	DRAWING NO:	<b>C6.3</b>
DESIGNED BY:	TCT	SHEET NO:	
DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML		
ISSUE DATE:	3/2/2022		

Bid Set

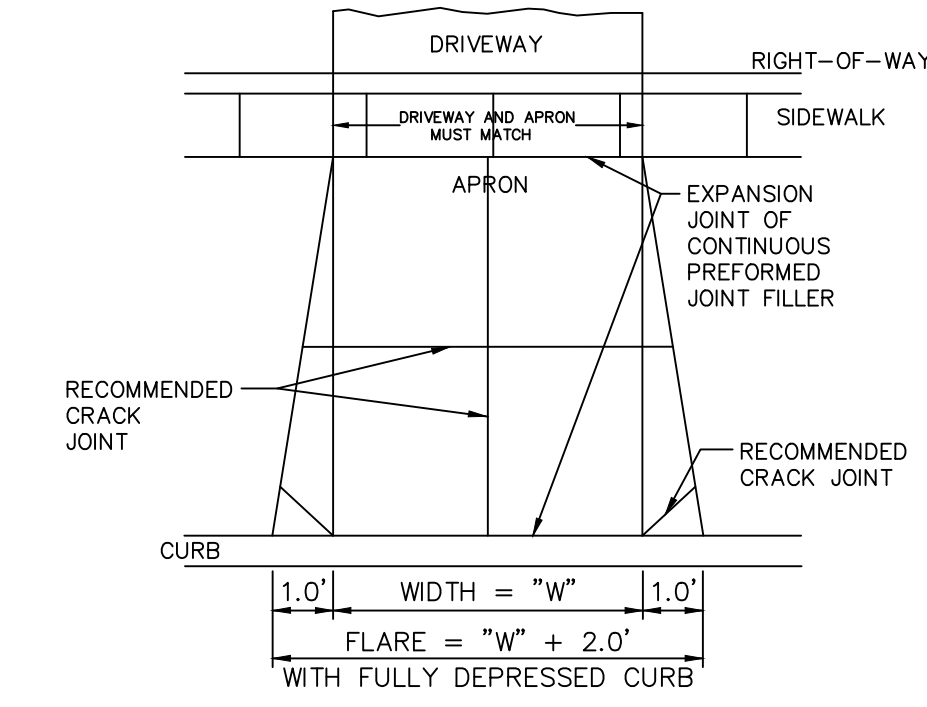
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SERVICE CONNECTION DETAILS					
SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION			FILE NAME:	SHEET NO.	
			SERVCONN.DWG	1 OF 1	

① Service Connection Details (Not to Scale)



NOTE: MINIMUM WIDTH, "W" = 10', MINIMUM FLARE = 12'  
MAXIMUM WIDTH, "W" = 28', MAXIMUM FLARE = 30'

NOTES:

CONCRETE

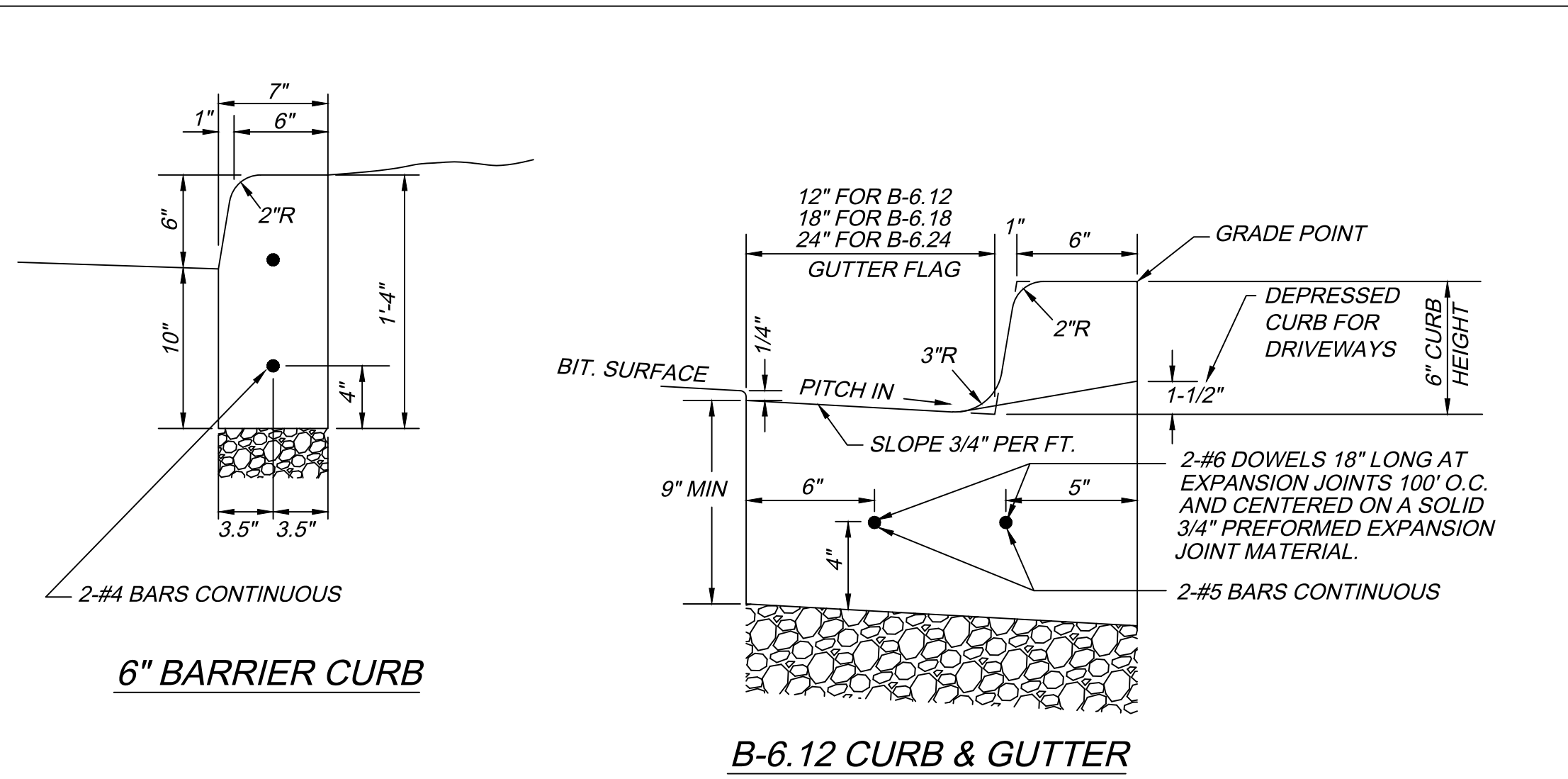
- THE APRON SHALL CONSIST OF 6" CONCRETE OVER 4" CA-6 CRUSHED STONE OR GRAVEL
- CONCRETE TO BE IDOT APPROVED MIX, MIN. 3500 PSI COMPRESSIVE STRENGTH WITH SYNTHETIC FIBERS
- CONCRETE MUST BE CURED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS

ASPHALT

- THE RESIDENTIAL APRON SHALL CONSIST OF 3" ASPHALT OVER 8" CA-6 CRUSHED STONE OR GRAVEL
- THE COMMERCIAL APRON SHALL CONSIST OF 5" ASPHALT OVER 10" CA-6 CRUSHED STONE OR GRAVEL

**APRON DETAIL**

③ Apron Detail (Not to Scale)



NOTES:

- TAPER CURB TO 5'-0" EACH SIDE OF INLET WITH EXPANSION JOINTS
- CONTRACTION JOINTS TO BE TOOLED OR SAWCUT EVERY 15' TO A MINIMUM DEPTH OF 1" <sup>1</sup>/<sub>2</sub>
- MINIMUM 4" CA6 CRUSHED STONE BEDDING UNDER ALL CURBS.
- ONLY CLASS SI CONCRETE SHALL BE USED.
- DEPRESSED CURB FOR SIDEWALK RAMPS SHALL BE 0.5 INCHES IN HEIGHT.

CURB DETAILS					
SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION			FILE NAME:	SHEET NO.	
			CURBS.DWG	1 OF 1	

② Curb Details (Not to Scale)

Scale bar measures 1" at full scale



**LEGEND**

No.	Revision/Issue	Date

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PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-002429

**Arizona Boulevard Storm Sewer Replacement Project**  
Village of Hoffman Estates

**Details**

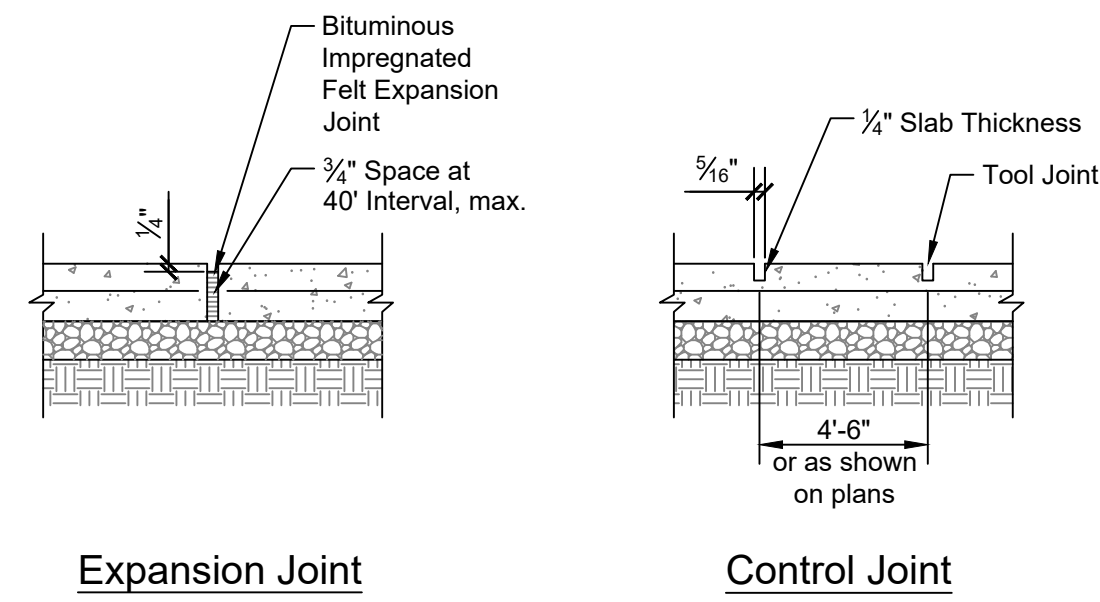
PROJECT NO: 21-0332		DRAWING NO:	
DESIGNED BY	TCT	<b>C6.4</b>	SHEET NO:
DRAWN BY	TCT, MAA		
CHECKED BY	PML		
APPROVED BY	PML	16 OF 17	
ISSUE DATE	3/2/2022		

**Bid Set**

File: P:\210001-0332 Hoffman Estates - Arizona Blvd Storm Sewer\05 CAD\21-0332 Arizona Boulevard - Bid Set.dwg Plot Date: March 2, 2022 Plotted by: Todd Thornholm

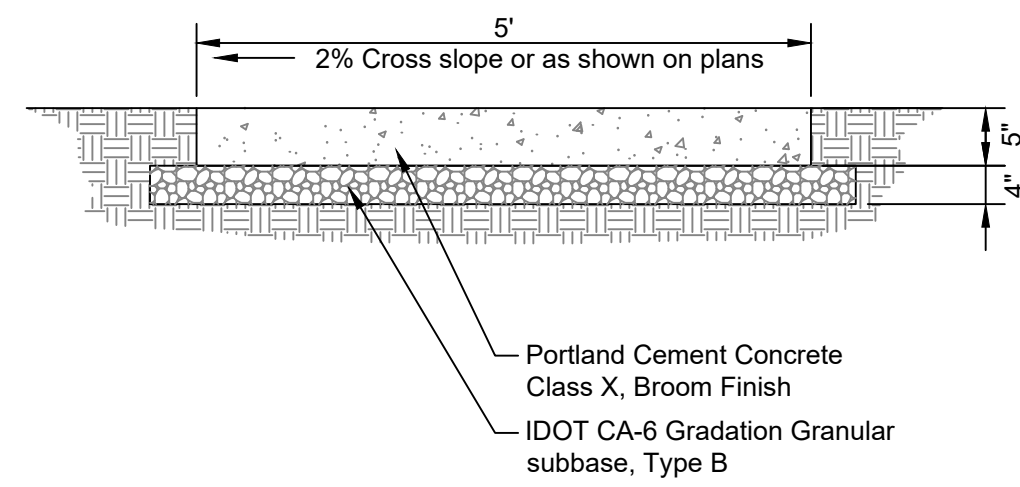
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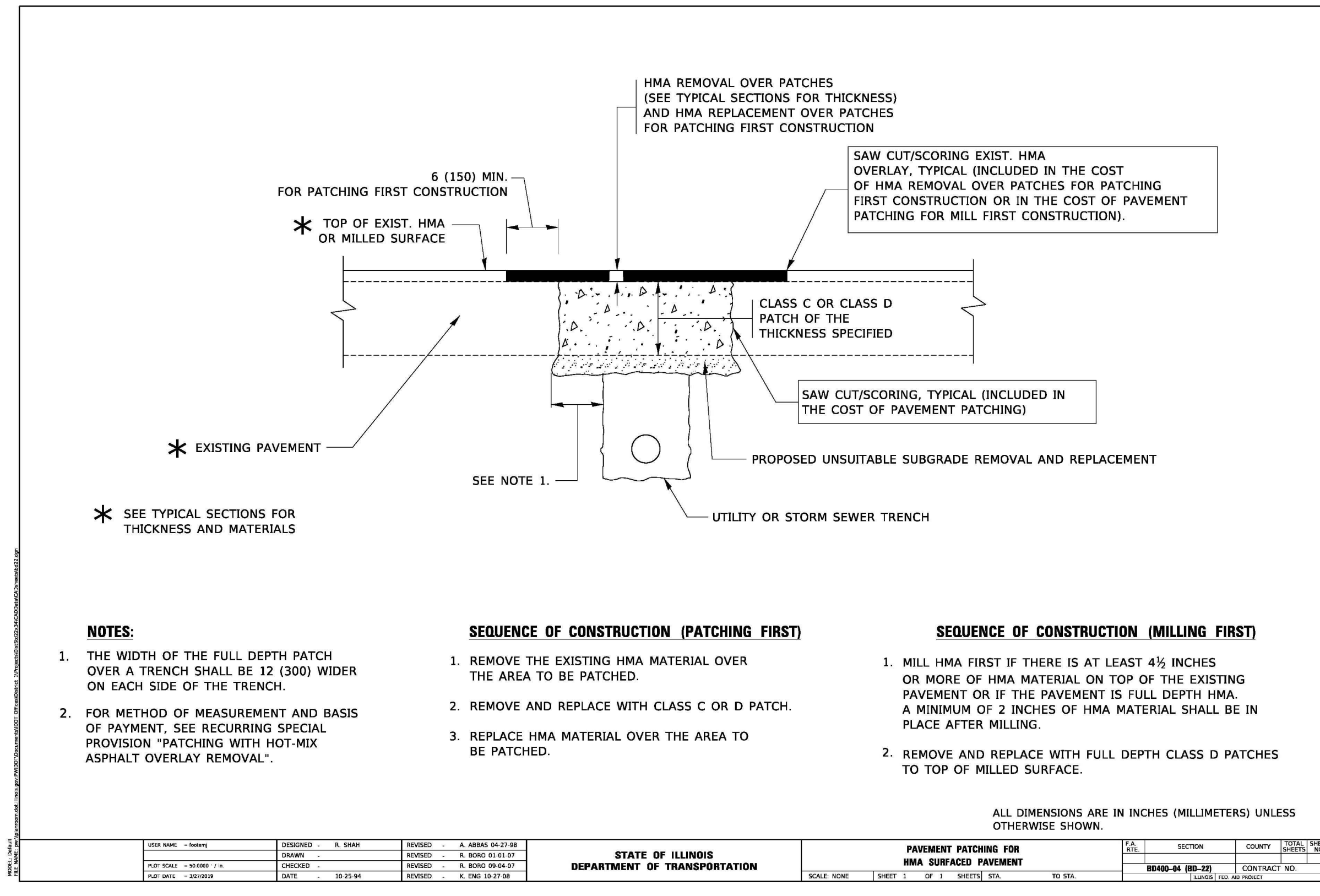


Expansion Joint

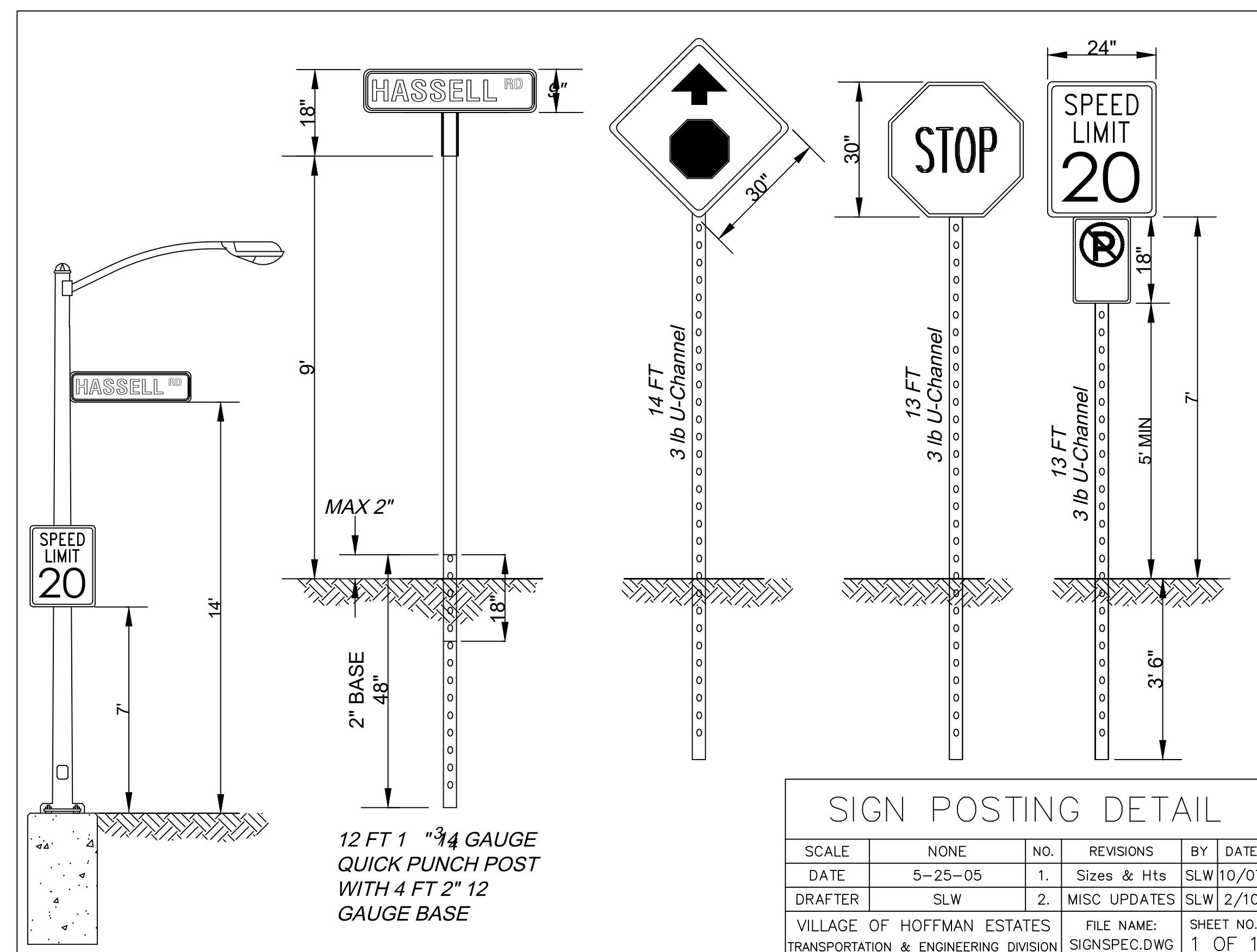
Control Joint



① PCC Sidewalk Detail (Not to Scale)



② Pavement Patching Detail (Not to Scale)



③ Sign Posting Detail (Not to Scale)

Scale bar measures 1" at full scale



LEGEND

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 Village of Hoffman Estates

Details

PROJECT NO:	21-0332	DRAWING NO:	<b>C6.5</b>
DESIGNED BY:	TCT		
DRAWN BY:	TCT, MAA		
CHECKED BY:	PML		
APPROVED BY:	PML	SHEET NO.:	
ISSUE DATE:	3/2/2022	17 OF 17	

Bid Set