

LEE'S SUMMIT FIRE STATION NO. 4

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI

PRELIMINARY DEVELOPMENT PLAN

CONSULTANT:



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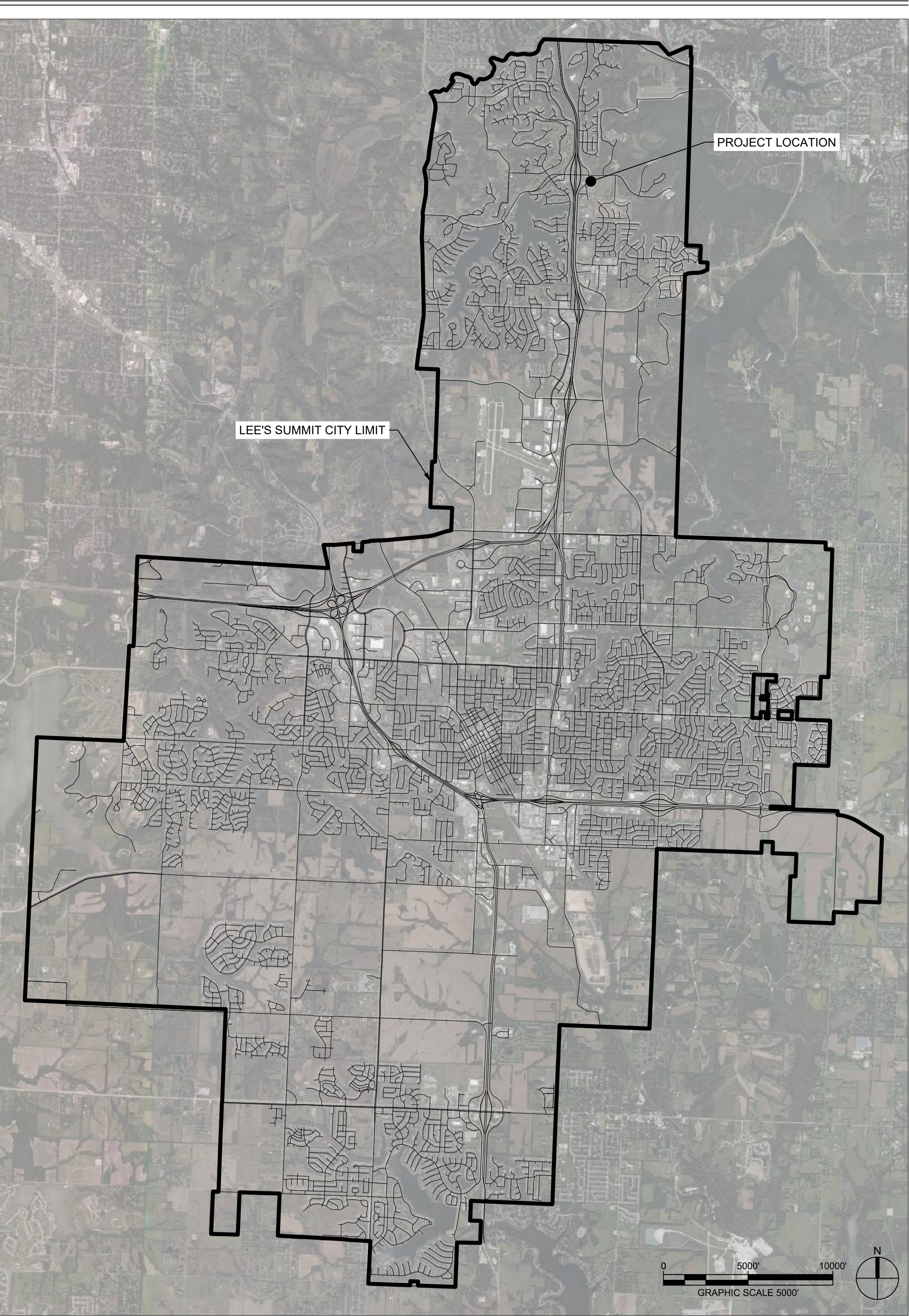
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PARCEL INFORMATION:

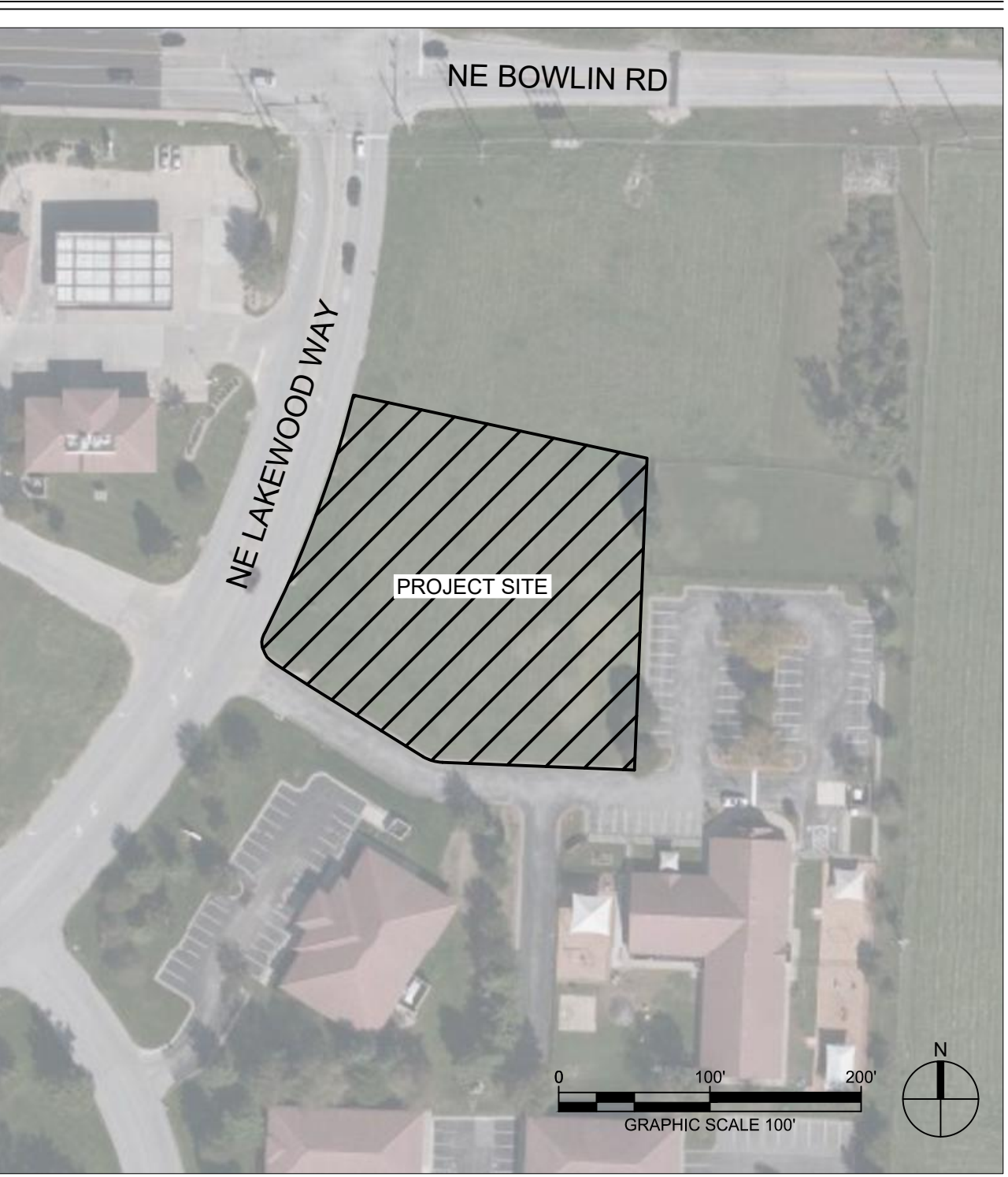
| | |
|-------------------|--|
| ACREAGE: | 1.17 |
| ADDRESS: | 5031 NORTHEAST LAKEWOOD WAY LEE'S SUMMIT, MO 64064 |
| LEGAL DESCRIPTION | ALL OF LOT 6-A, EXECUTIVE LAKES CENTER LOTS 6-A AND 8-B, A SUBDIVISION IN THE SE 1/4 OF SECTION 5- T 48 N - R 31 W, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI |
| FEMA FLOODPLAIN | THE SUBJECT PROPERTY IS LOCATED IN ZONE X. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) 29095C0313G, EFFECTIVE JANUARY 20, 2017. |
| ZONING | CP-2, PLANNED COMMUNITY COMMERCIAL |

| LAND USE SCHEDULE | |
|---|---|
| TOTAL FLOOR AREA | 12,189 SF |
| NUMBER OF DWELLING UNITS | 8 |
| LAND AREA | 1.17 ACRES |
| REQUIRED PARKING | DIRECTED BY FIRE CHIEF |
| PROPOSED PARKING | 15 SPACES |
| IMPERVIOUS COVERAGE | 32,464 SF (.75 ACRES) |
| FLOOR AREA RATIO (FAR) | 0.24 |
| PERMITTED LAND USE | FIRE STATION - MUNICIPAL = CONDITIONAL |
| DWELLING UNITS PER ACRE WITH COMMON AREA | 6.84 |
| DWELLING UNTIS PER ACRE WITHOUT COMMON AREA | 6.84 |

VICINITY MAP



SITE LOCATION MAP



INDEX OF DRAWINGS

| SHEET NO. | SHEET NAME |
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| C-103 | EROSION CONTROL PLAN |
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| ES-002 | SITE LIGHTING PHOTOMETRIC PLAN |
| L-100 | LANDSCAPE SCHEDULE |
| L-101 | LANDSCAPE PLAN |
| PDP-A1 | EXTERIOR BUILDING ELEVATIONS |

REFERENCES:

BOUNDARY AND TOPOGRAPHIC SURVEY: J&J SURVEY, LLC

| REVISIONS: | | |
|------------|-------------|------|
| # | Description | Date |

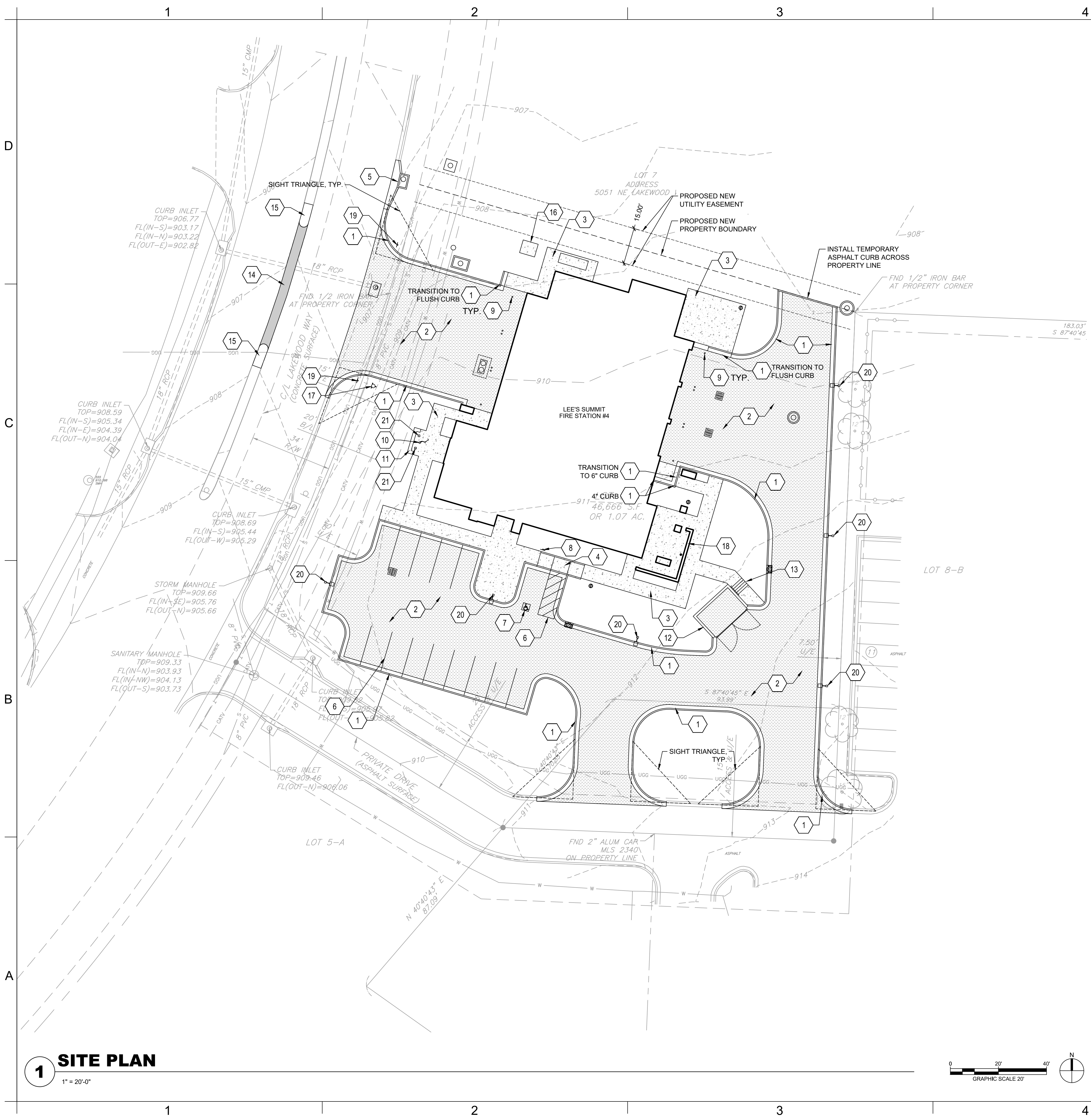
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CONSTRUCTION

PROJECT NO: 18225R21001

DATE: 01.20.2022

COVER
SHEET

C-001



SITE NOTES

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION/DIGGING.
4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST. PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL REPAIR ALL DISTURBED LANDSCAPING.
6. COORDINATE IRRIGATION SLEEVE INSTALLATION WITH THE PAVING CONTRACTOR.

KEYNOTES

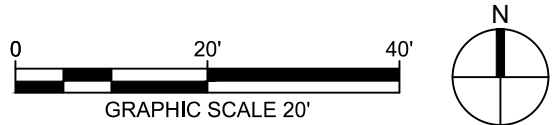
- 1 TYP. CURB & GUTTER
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C502
- 2 TYP. CONCRETE PAVING
REF: 1/C500
- 3 CONCRETE SIDEWALK PAVING
REF: 2/C500
- 4 ADA SIDEWALK RAMP.
REF: 4/C503
- 5 CURB INLET
REF: 1/C530
- 6 PAVEMENT STRIPING
REF: 5/C500
- 7 ADA PAVEMENT MARKING
REF: 6/C500
- 8 ADA PARKING SIGN
REF: 7/C500
- 9 TYP. SAFETY BOLLARD
REF: 4/C500
- 10 FLAG POLE
REF: 9/C500
- 11 MONUMENT SIGN
REF: 10/C500
- 12 DUMPSTER ENCLOSURE
REF: 1/C501
- 13 CONCRETE STEPS WITH RAILING
REF: 14/C500
- 14 ROADWAY ASPHALT PATCH
LEE'S SUMMIT STANDARD DETAIL
REF: 2/C503
- 15 MEDIAN TRANSITION
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C503
- 16 TRANSFORMER CONCRETE PAD
REF: MEP
- 17 RELOCATED FIRE HYDRANT
REF: 5/C520
- 18 SCREEN WALL
REF: ARCH
- 19 DO NOT ENTER SIGN
REF: 8/C500
- 20 TYP. AREA LIGHTING
REF: ELECTRICAL
- 21 TYP. FLAG POLE LIGHTING
REF: ELECTRICAL

LEGEND

- TYP. CURB & GUTTER
- TYP. CONCRETE PAVING
- ASPHALT PATCH
- CONCRETE SIDEWALK

1 SITE PLAN

1" = 20'-0"



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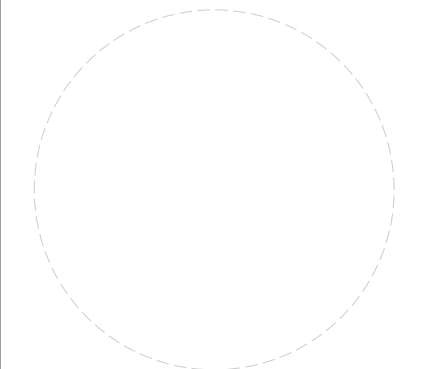
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|------------|-------------|------|
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ANGIE MORGAN - CIVIL ENGINEER
MO# PE-2018031541

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DATE: 01.20.2022

DRAWN BY: KDW

CHKD BY: ALM

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SITE PLAN

C-100

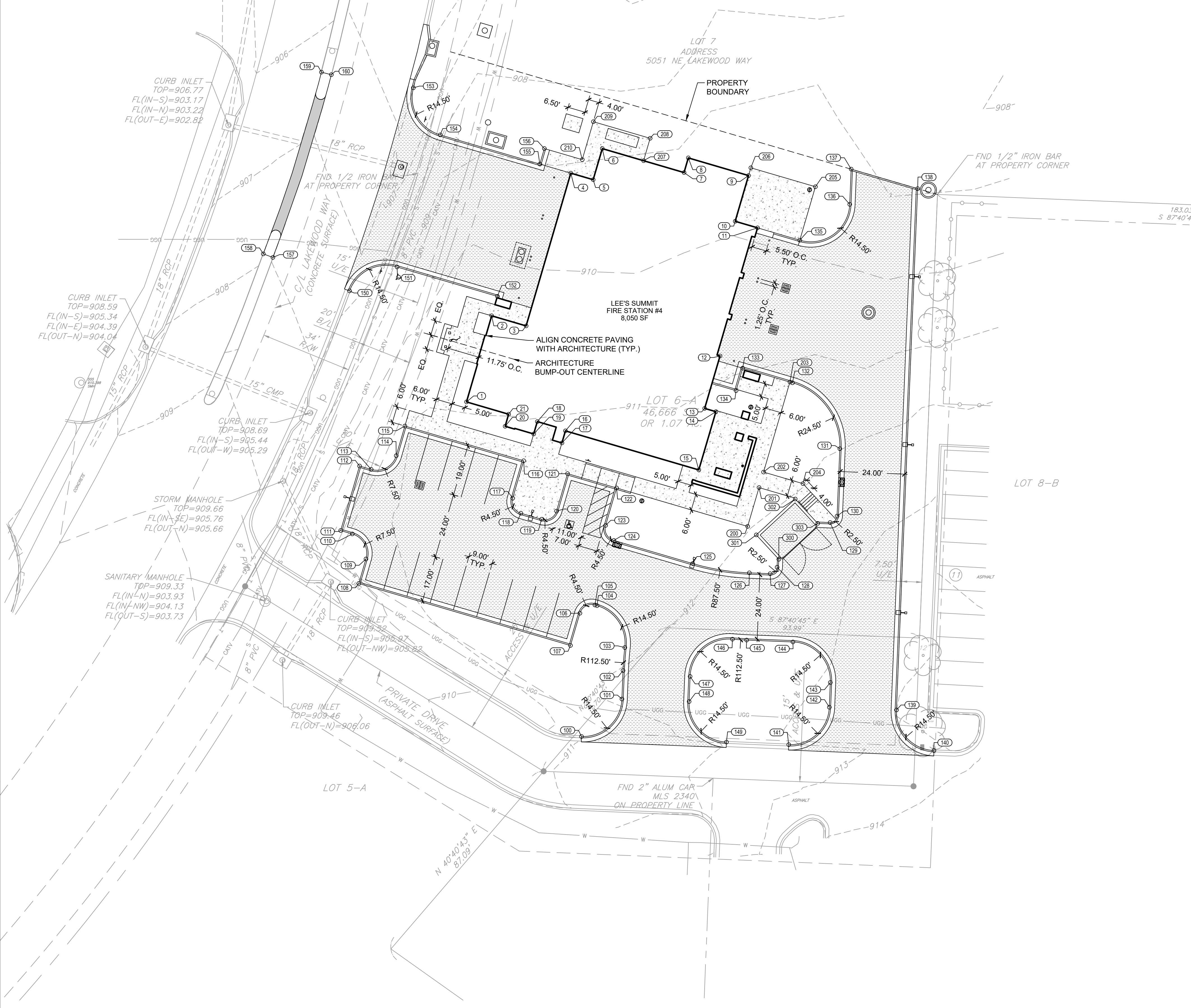
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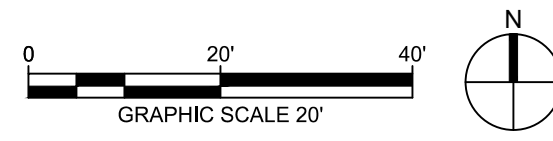
C

B

A



1 LAYOUT PLAN
1" = 20'-0"



LAYOUT NOTES

1. ALL CURB POINTS INDICATE BACK OF CURB UNLESS OTHERWISE NOTED.
2. SEE UTILITY PLAN FOR ALL UTILITY LOCATIONS AND LAYOUT.

| LAYOUT TABLE | | | |
|--------------|--------------|--------------|-------------|
| POINT NO. | NORTHING | EASTING | DESCRIPTION |
| 1 | 1032898.4666 | 2830193.3865 | BLDG |
| 2 | 1032930.4565 | 2830202.7537 | BLDG |
| 3 | 1032926.7096 | 2830215.5497 | BLDG |
| 4 | 1032983.4921 | 2830232.1764 | BLDG |
| 5 | 1032981.0566 | 2830240.4939 | BLDG |
| 6 | 1032992.6130 | 2830243.8778 | BLDG |
| 7 | 1032983.7142 | 2830274.2684 | BLDG |
| 8 | 1032989.1525 | 2830275.8608 | BLDG |
| 9 | 1032982.5955 | 2830298.2539 | BLDG |
| 10 | 1032965.6007 | 2830293.2776 | BLDG |
| 11 | 1032963.1653 | 2830301.5950 | BLDG |
| 12 | 1032915.5400 | 2830287.6496 | BLDG |
| 13 | 1032896.0460 | 2830281.9415 | BLDG |
| 14 | 1032894.8224 | 2830286.1203 | BLDG |
| 15 | 1032873.1752 | 2830279.7599 | BLDG |
| 16 | 1032887.6943 | 2830230.1753 | BLDG |
| 17 | 1032883.2157 | 2830228.8639 | BLDG |
| 18 | 1032891.1454 | 2830219.7239 | BLDG |
| 19 | 1032886.5468 | 2830218.3774 | BLDG |
| 20 | 1032889.3981 | 2830207.7504 | BLDG |
| 21 | 1032893.8767 | 2830209.0618 | BLDG |
| 100 | 1032774.0984 | 2830236.1407 | CURB |
| 101 | 1032788.0184 | 2830251.1687 | CURB |
| 102 | 1032798.6021 | 2830251.5850 | CURB |
| 103 | 1032807.1474 | 2830252.2480 | CURB |
| 104 | 1032822.7345 | 2830241.9193 | CURB |
| 105 | 1032822.9639 | 2830241.1359 | CURB |
| 106 | 1032819.9098 | 2830235.5527 | CURB |
| 107 | 1032807.9135 | 2830232.0400 | CURB |
| 108 | 1032830.9568 | 2830153.3443 | CURB |
| 109 | 1032840.0739 | 2830156.0140 | CURB |
| 110 | 1032849.3793 | 2830150.9238 | CURB |
| 111 | 1032850.6439 | 2830146.6052 | CURB |
| 112 | 1032874.6365 | 2830153.6305 | CURB |
| 113 | 1032873.3719 | 2830157.9492 | CURB |
| 114 | 1032878.4621 | 2830167.2546 | CURB |
| 115 | 1032889.4987 | 2830170.4863 | CURB |
| 116 | 1032876.5720 | 2830214.6326 | CURB |
| 117 | 1032862.6563 | 2830210.5579 | CURB |
| 118 | 1032857.0730 | 2830213.6120 | CURB |
| 119 | 1032854.8249 | 2830221.2896 | CURB |
| 120 | 1032857.8790 | 2830226.8728 | CURB |
| 121 | 1032871.7947 | 2830230.9476 | CURB |
| 122 | 1032866.4554 | 2830249.1819 | CURB |
| 123 | 1032852.5397 | 2830245.1072 | CURB |
| 124 | 1032846.9565 | 2830248.1613 | CURB |
| 125 | 1032838.3651 | 2830277.5021 | CURB |
| 126 | 1032834.9110 | 2830298.5431 | CURB |
| 127 | 1032834.5973 | 2830306.2742 | CURB |
| 128 | 1032836.9936 | 2830308.8735 | CURB |

| LAYOUT TABLE | | | |
|--------------|--------------|--------------|-------------|
| POINT NO. | NORTHING | EASTING | DESCRIPTION |
| 129 | 1032853.6174 | 2830328.5631 | CURB |
| 130 | 1032856.0141 | 2830331.1625 | CURB |
| 131 | 1032881.0650 | 2830332.1775 | CURB |
| 132 | 1032905.5696 | 2830314.5825 | CURB |
| 133 | 1032910.9977 | 2830296.0450 | CURB |
| 134 | 1032902.6403 | 2830293.5978 | CURB |
| 135 | 1032958.5666 | 2830317.3002 | CURB |
| 136 | 1032971.8943 | 2830335.8630 | CURB |
| 137 | 1032984.9734 | 2830336.3938 | CURB |
| 138 | 1032977.7330 | 2830361.1205 | CURB |
| 139 | 1032783.9463 | 2830353.2567 | CURB |
| 140 | 1032768.8692 | 2830367.1848 | CURB |
| 141 | 1032771.0685 | 2830313.1866 | CURB |
| 142 | 1032784.9680 | 2830328.2776 | CURB |
| 143 | 1032794.1568 | 2830328.6505 | CURB |
| 144 | 1032809.2328 | 2830314.7503 | CURB |
| 145 | 1032809.9316 | 2830297.5294 | CURB |
| 146 | 1032810.2684 | 2830292.2719 | CURB |
| 147 | 1032796.3937 | 2830276.5715 | CURB |
| 148 | 1032787.0774 | 2830276.1510 | CURB |
| 149 | 1032772.0204 | 2830290.0301 | CURB |
| 150 | 1032939.7241 | 2830149.9055 | CURB |
| 151 | 1032948.6137 | 2830167.5813 | CURB |
| 152 | 1032937.6942 | 2830204.8730 | CURB |
| 153 | 1033015.1953 | 2830173.6316 | CURB |
| 154 | 1032997.7133 | 2830183.6113 | CURB |
| 155 | 1032986.8644 | 2830220.6601 | CURB |
| 156 | 1032992.6225 | 2830222.3462 | CURB |
| 157 | 1032952.1542 | 2830121.4178 | CURB |
| 158 | 1032953.4743 | 2830117.8512 | CURB |
| 159 | 1033021.0271 | 2830139.4536 | CURB |
| 160 | 1033020.0818 | 2830143.1406 | CURB |
| 200 | 1032852.1824 | 2830297.9260 | PAVE |
| 201 | 1032866.6182 | 2830302.1530 | PAVE |
| 202 | 1032872.3764 | 2830303.8391 | PAVE |
| 203 | 1032905.8457 | 2830313.6394 | PAVE |
| 204 | 1032868.0874 | 2830318.4867 | PAVE |
| 205 | 1032978.4404 | 2830323.1196 | PAVE |
| 206 | 1032985.4745 | 2830299.0969 | PAVE |
| 207 | 1032988.1163 | 2830259.2348 | PAVE |
| 208 | 1032996.4336 | 2830261.6702 | PAVE |
| 209 | 1033002.6160 | 2830240.5567 | PAVE |
| 210 | 1032988.5004 | 2830236.4235 | PAVE |
| 300 | 1032839.9703 | 2830309.4952 | WALL |
| 301 | 1032849.0374 | 2830301.1351 | WALL |
| 302 | 1032862.3710 | 2830315.5962 | WALL |
| 303 | 1032853.3039 | 2830323.9563 | WALL |

LEGEND

TYP. CURB & GUTTER

TYP. CONCRETE PAVING

ASPHALT PATCH

CONCRETE SIDEWALK

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100% DESIGN DEVELOPMENT DRAWINGS

REVISIONS:
Description Date

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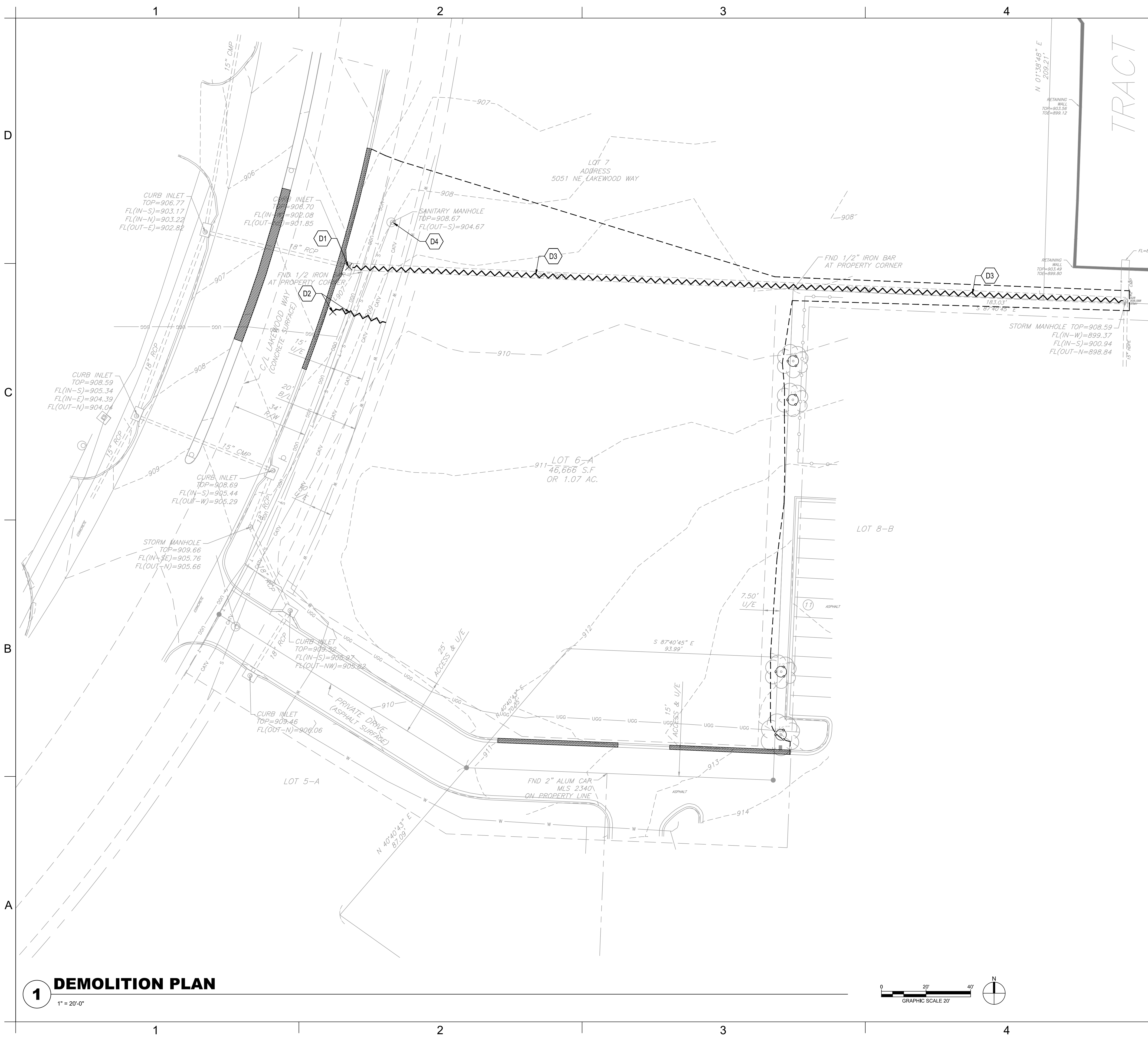
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LAYOUT PLAN

C-101

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DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, UNDERGROUND STORAGE TANKS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL..
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. EXISTING PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BMP'S) AS APPROVED BY CONSTRUCTION MANAGER.
7. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. PRIOR TO ANY DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES MUST BE INSTALLED.
9. ALL DISTURBED FEATURES SHALL BE RESTORED OR RELOCATED AS REQUIRED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL REPAIR/REPLACE ANY SURROUNDING FEATURES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
11. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
12. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.

KEYNOTES

- D1 REMOVE CURB INLET. CONVERT TO JUNCTION BOX
REF: C-104 - GRADING & DRAINAGE PLAN
- D2 RELOCATE FIRE HYDRANT.
REF: C-105 - UTILITY PLAN
- D3 REMOVE AND RELOCATE STORMWATER PIPE
REF: C-104 - GRADING & DRAINAGE PLAN
- D4 REMOVE MANHOLE FOR SANITARY SEWER LINE EXTENSION FOR LOT 7
REF: C-105 - UTILITY PLAN

LEGEND

- PAVEMENT TO BE REMOVED
- TREE TO BE PROTECTED
- SITE FEATURE TO BE REMOVED
- APPROXIMATE LIMITS OF DEMOLITION

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CITY OF LEE'S SUMMIT

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100% DESIGN DEVELOPMENT DRAWINGS

REVISIONS:

| # | Description | Date |
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|---|-------------|------|

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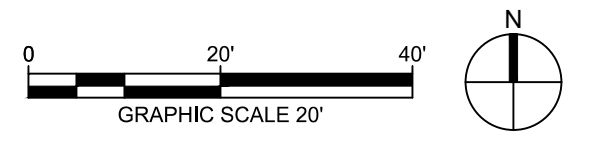
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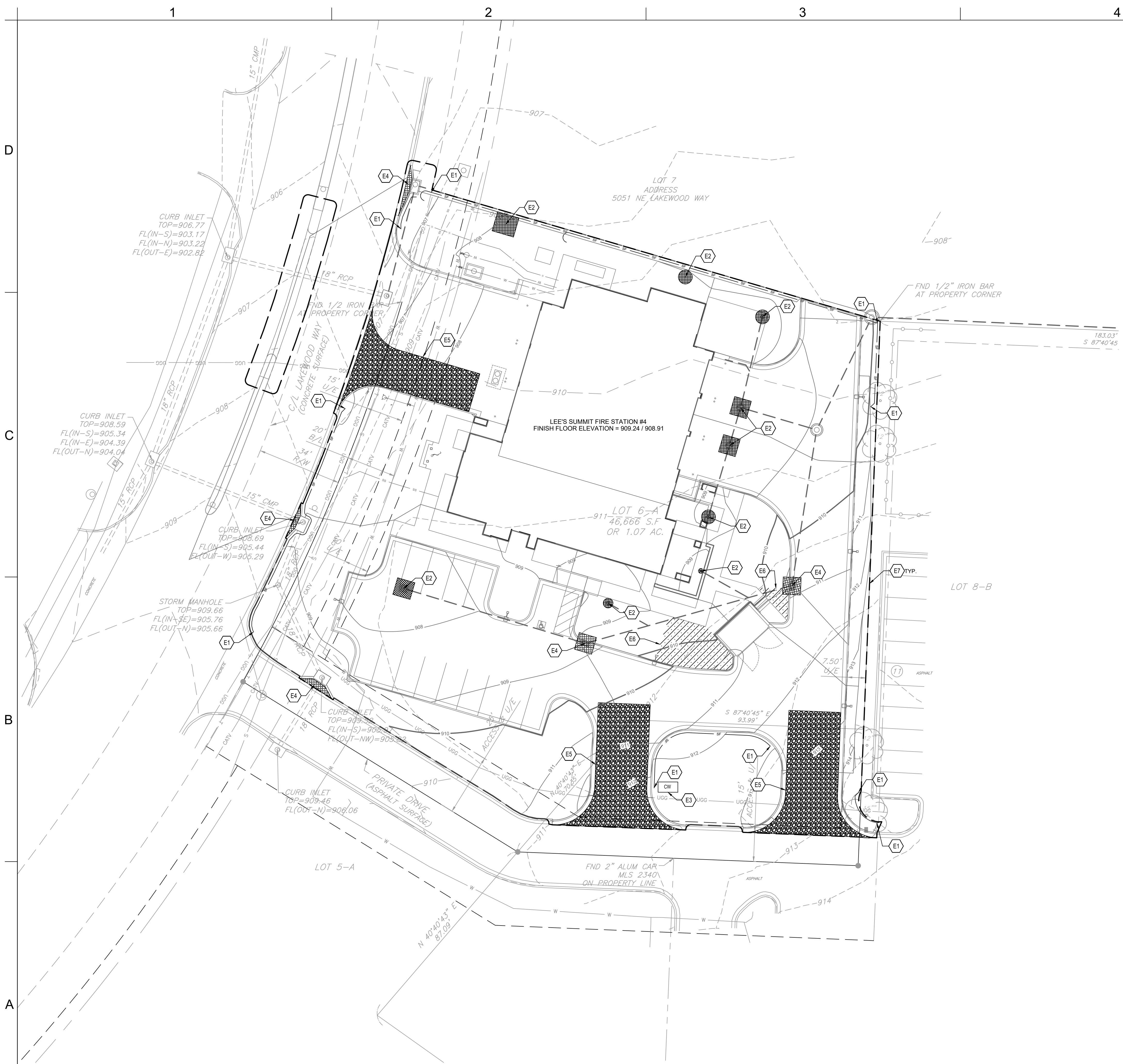
DEMOLITION PLAN

C-102

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1 DEMOLITION PLAN
1" = 20'-0"





GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

1. PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
2. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:
 - 2.1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
 - 2.2. INSTALL TEMPORARY PERIMETER SILT FENCE
 - 2.3. INSTALL TEMPORARY EXISTING CURB INLET PROTECTION
 - 2.4. CONSTRUCT SITE IMPROVEMENTS
 - 2.5. INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
 - 2.6. INSTALL EROSION AND SEDIMENT CONTROL BLANKETS
 - 2.7. SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS
 - 2.8. REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND SITE CLEANUP.
3. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
6. SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
7. NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
8. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
9. WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
11. CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

EROSION CONTROL KEYNOTES

- E1 SILT FENCE
REF: CS10
- E2 AREA INLET AND JUNCTION BOX PROTECTION
REF: CS11
- E3 CONCRETE WASHOUT
REF: CS10
- E4 CURB INLET PROTECTION
REF: CS10
- E5 CONSTRUCTION ENTRANCE
REF: CS10
- E6 TEMPORARY EROSION CONTROL BLANKET
REF: CS10
- E7 LIMITS OF DISTURBANCE

LEGEND

- LIMITS OF DISTURBANCE
- SF — SILT FENCE
- [Pattern] AREA INLET PROTECTION
- [Pattern] CONCRETE WASHOUT
- [Pattern] CURB INLET PROTECTION
- [Pattern] CONSTRUCTION ENTRANCE
- [Pattern] TEMPORARY EROSION CONTROL BLANKET



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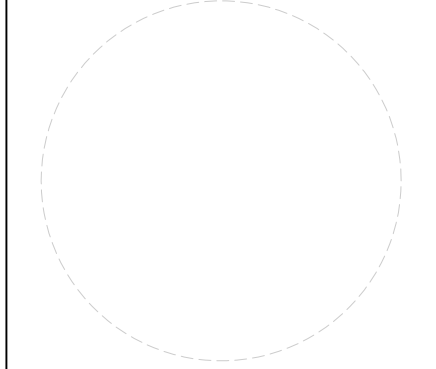
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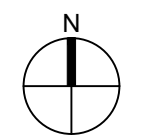
**EROSION
CONTROL PLAN**

C-103

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1 EROSION CONTROL PLAN

1" = 20'-0"

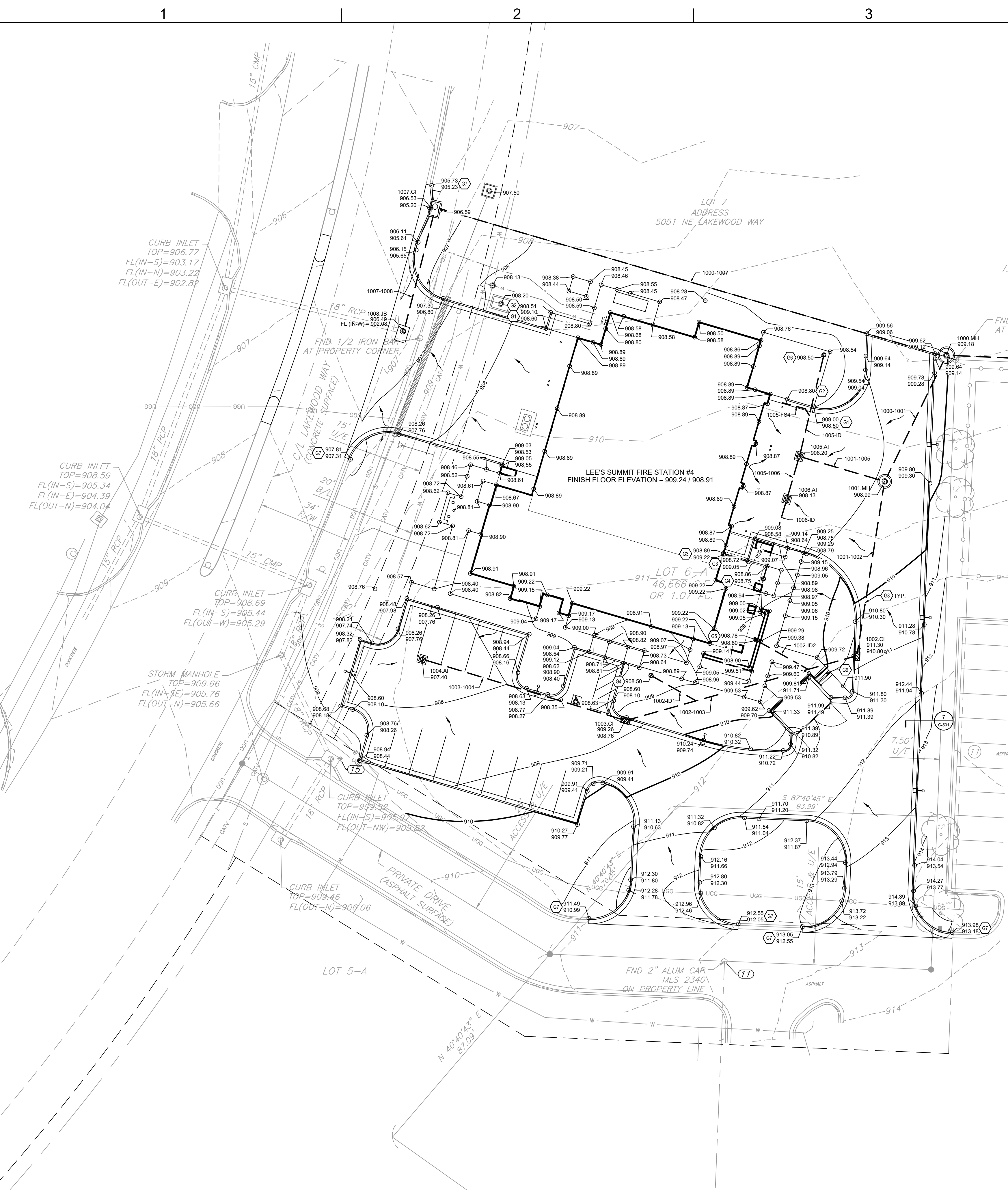


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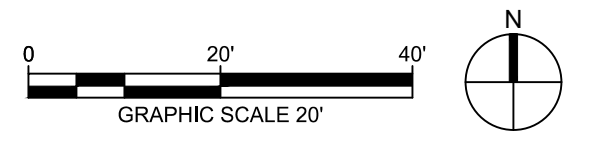


GRADING & DRAINAGE KEYNOTES

- G1 TRANSITION FROM 6" CURB TO FLUSH CURB.
- G2 FLUSH CURB.
- G3 4" CURB.
- G4 INLINE DRAIN WITH 18" DOME GRATE. REF: C-532
- G5 INLINE DRAIN WITH 10" STANDARD GRATE. REF: C-531 AND C-532
- G6 INLINE DRAIN WITH 18" STANDARD GRATE. REF: C-531 AND C-532
- G7 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G8 SEE DRAWINGS LTR-LTR FOR STORMWATER PROFILE DRAWINGS
- G9 CONCRETE STEPS REF: C-500

| STORMWATER PIPE TABLE | | | |
|-----------------------|------|------------------------------|--|
| NAME | SIZE | 3D LENGTH, SLOPE, & MATERIAL | |
| EX MH-1000 | 36" | 150.24 LF @ 0.50%, HDPP | |
| 1000-1007 | 36" | 188.02 LF @ 0.50%, HDPP | |
| 1000-1001 | 12" | 46.18 LF @ 1.00%, HDPP | |
| 1001-1005 | 12" | 28.61 LF @ 3.75%, HDPP | |
| 1001-1002 | 12" | 60.86 LF @ 1.00%, HDPP | |
| 1002-ID2 | 12" | 22.00 LF @ 3.00%*, HDPP | |
| 1002-ID1 | 12" | 17.89 LF @ 3.00%*, HDPP | |
| 1002-1003 | 12" | 84.59 LF @ 1.00%, HDPP | |
| 1003-1004 | 12" | 74.52 LF @ 1.00%, HDPP | |
| 1005-FS4 | 6" | 11.57 LF @ 3.00%, HDPP | |
| 1005-ID | 12" | 35.83 LF @ 3.00%*, HDPP | |
| 1005-1006 | 12" | 13.75 LF @ 2.00%, HDPP | |
| 1006-ID | 12" | 28.17 LF @ 2.00%*, HDPP | |
| 1007-1008 | 24" | 41.14 LF @ 0.50%, HDPP | |

- * LENGTH OF PIPE AND SLOPE SHOWN EXCLUDE VERTICAL PORTION OR INLINE DRAIN.
- ** EXISTING INCOMING OR OUTGOING PIPES TO REMAIN ARE NOT SHOWN IN TABLE FOR CLARITY. CONTRACTOR TO PLUG AND GROUT EXISTING PENETRATIONS IN STRUCTURE NO LONGER REQUIRED PER CITY OF LEE'S SUMMIT STANDARDS.

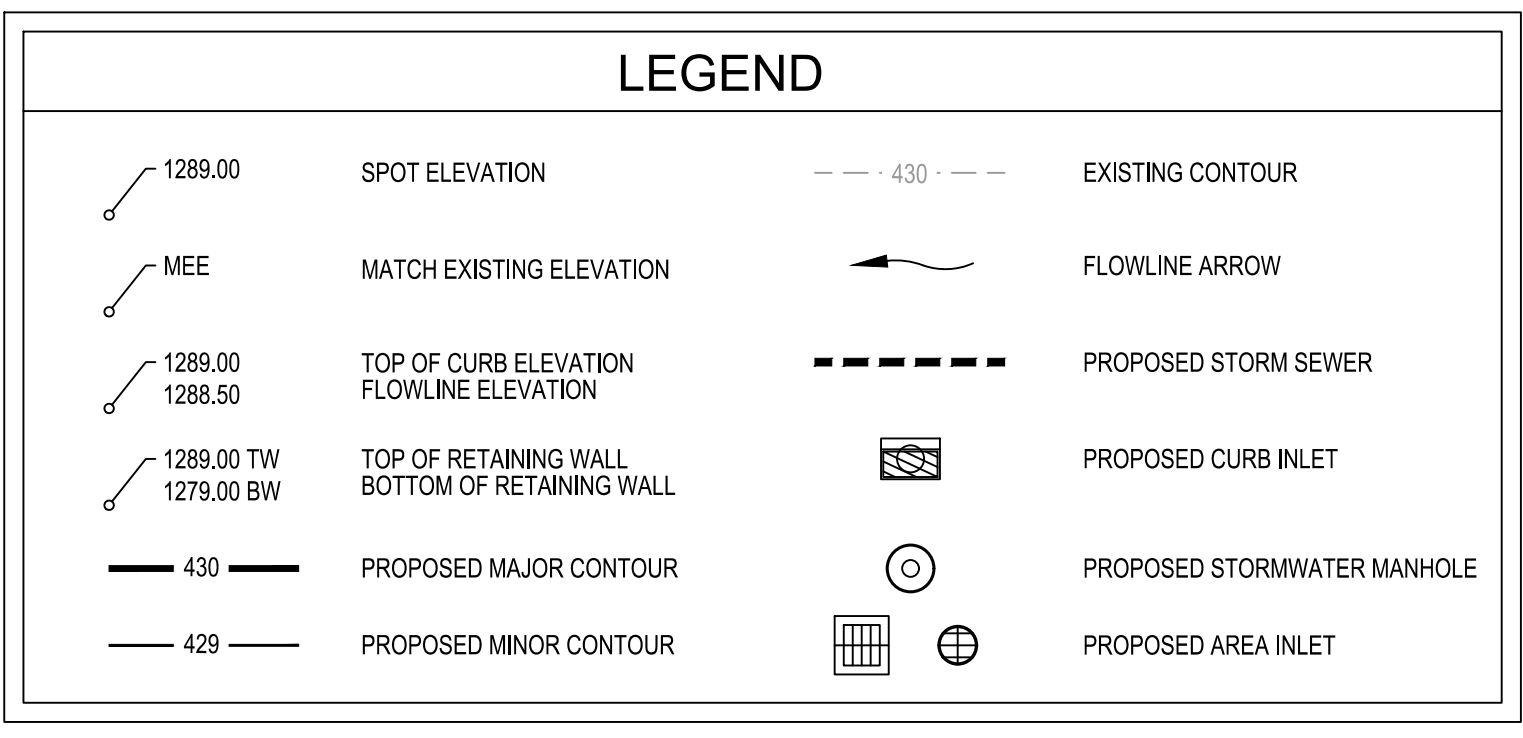


GENERAL GRADING & DRAINAGE NOTES:

- CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT BEFORE STARTING CONSTRUCTION.
- 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 EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1, UNLESS NOTED OTHERWISE ON THE PLANS.
- ALL SITE WORK FOR THIS PROJECT IS CONSIDERED "UNCLASSIFIED". THE TERM "UNCLASSIFIED" EXCAVATION SHALL BE DEFINED AS MEANING THE CONTRACTOR BEARS THE ENTIRE RISK OF THE SOIL QUANTITIES AND/OR TYPE (E.G. ROCK, CLAY, PEAT, SILT, SHALE, ETC.) ENCOUNTERED EITHER ABOVE OR BELOW PROPOSED SUBGRADES. IN THE EVENT IT BECOMES NECESSARY FOR UNSUITABLE SOIL TO BE HANDLED, REMOVED FROM THE SITE, OR FOR SUITABLE MATERIAL TO BE IMPORTED TO THE SITE, THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF SUCH ADDITIONAL WORK. "UNUSABLE" SOIL ALSO INCLUDES SATURATED SOILS THAT MAY NEED REPLACING AND/OR TREATING IN ORDER TO MEET SCHEDULE DATES. THIS DEFINITION OF "UNCLASSIFIED" SUPERCEDES ANY CONTRARY DEFINITIONS OR STATEMENTS WHICH MAY BE CONTAINED IN SPECIFICATIONS, PLANS, OR OTHER DOCUMENTS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS OF CONNECTION POINTS AS SHOWN ON GRADING PLANS. NOTIFY ENGINEER IF DISCREPANCY EXISTS FOR DIRECTION.
- ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.

ADA NOTES

- ANY AND ALL NEW SITE "ADA" FEATURES SHALL BE BUILT IN COMPLIANCE TO CURRENT FEDERAL, STATE, AND LOCAL ACCESSIBILITY RULES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO KNOW AND UNDERSTAND ALL CURRENT ACCESSIBILITY REGULATIONS AS THEY PERTAIN TO THE CONSTRUCTION OF ACCESSIBLE SITE FEATURES.
- ALL NEW CONCRETE SIDEWALK PAVEMENT SHALL BE INSTALLED WITH A MAXIMUM 5% RUNNING SLOPE AND A MAXIMUM 2% CROSS SLOPE.
- SURFACES OF ALL NEW CONCRETE PAVEMENT PATHWAYS SHALL BE SMOOTH AND EVEN WITH NO ABRUPT CHANGES IN ELEVATION OF 1/4" OR GREATER AS REQUIRED BY THE ACCESSIBILITY DESIGN REGULATIONS.



| STORMWATER STRUCTURE TABLE | | | | | |
|----------------------------|-----------------------|--|---------------------------------|--------------------------------|--|
| STRUCTURE NAME | GRATE / RIM ELEVATION | PIPES IN | PIPES OUT | CL NORTHING & EASTING | NOTES |
| 1000.MH | 909.18 | 1000-1001, 12" INV IN =900.62 1000-1007, 36" INV IN =900.32 | EX MH-1000, 36" INV OUT =900.12 | N: 1032977.21 E: 2830365.11 | STANDARD PRECAST MANHOLE REF: DETAIL 3/C-540 |
| 1001.MH | 908.99 | 1001-1002, 12" INV IN =901.28 1001-1005, 12" INV IN =901.58 | 1000-1001, 12" INV OUT =901.08 | N: 1032931.67 E: 2830342.87 | STANDARD PRECAST MANHOLE REF: DETAIL 3/C-540 |
| 1002.CI | 910.80 | 1002-1003, 12" INV IN =902.39 | 1001-1002, 12" INV OUT =901.89 | N: 1032868.61 E: 2830332.81 | 2'x3' CURB INLET REF: DETAIL 2/C-532 |
| 1003.CI | 908.76 | 1003-1004, 12" INV IN =903.74 | 1002-1003, 12" INV OUT =903.24 | N: 1032845.41 E: 2830249.41 | 2'x3' CURB INLET REF: DETAIL 2/C-532 |
| 1004.AI | 907.40 | | 1003-1004, 12" INV OUT =904.49 | N: 1032867.55 E: 2830176.04 | STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530 |
| 1005.AI | 908.20 | 1005-1006, 12" INV IN =903.15 1005-ID, 12" INV IN =903.25 | 1001-1005, 12" INV OUT =902.65 | N: 1032940.69 E: 2830312.07 | STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530 |
| 1006.AI | 908.13 | 1006-ID, 12" INV IN =903.62 | 1005-1006, 12" INV OUT =903.42 | N: 1032925.34 E: 2830307.57 | STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530 |
| 1007.CI | 906.56 | 1007-1008, 24" INV IN =901.64 | 1000-1007, 36" INV OUT =901.26 | N: 1033029.98 E: 2830180.60 | STANDARD CURB INLET REF: DETAIL 1/C-530 |
| 1008.JB | 906.49 | | 1007-1008, 24" INV OUT =901.85 | N: 1032984.96 E: 2830168.78 | CONVERT CI TO JUNCTION BOX** REF: DETAIL 2/C-530 |
| EX MH | 908.59 | EX MH-1000, 36" INV IN =899.37 | | N: 1032970.53 E: 2830516.95 | EXISTING MANHOLE** |

1 GRADING & DRAINAGE PLAN

1" = 20'-0"

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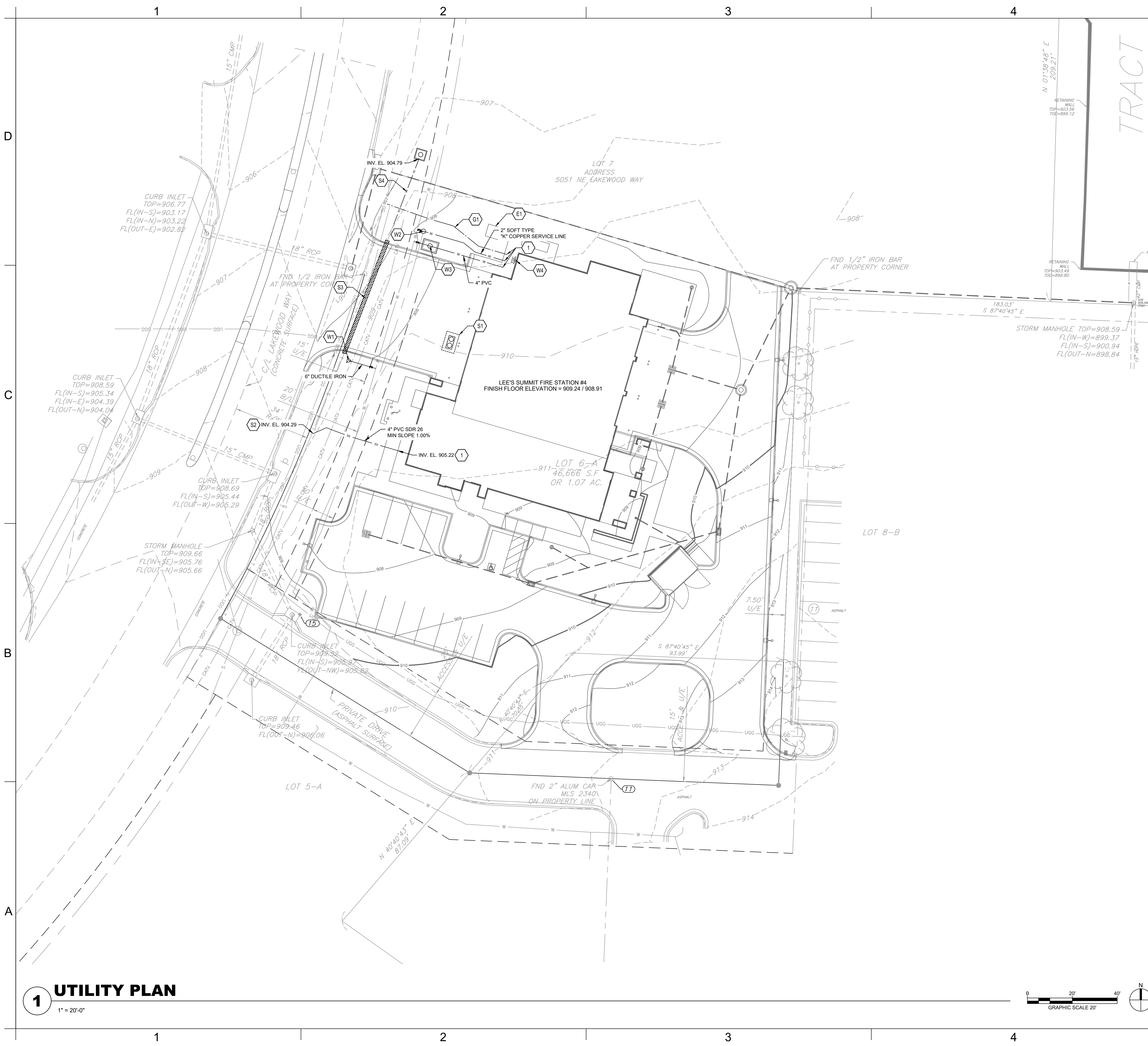
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GRADING & DRAINAGE PLAN

C-104

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1 UTILITY PLAN
1" = 20'-0"

GENERAL UTILITY NOTES

- UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES, AND DETAILS OF THE CITY OF LEE'S SUMMIT, MO AND UTILITY PROVIDERS.
1. INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
 2. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO.
 3. PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
 4. STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
 5. CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER/ENGINEER UPON COMPLETION OF ALL UTILITIES.
 6. UTILITY TRENCH BACKFILL SHALL BE PER GEOTECHNICAL REPORT.
 7. UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
 8. UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.

GENERAL KEYNOTES

- 1 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.

ELECTRIC KEYNOTES

- E1 ELECTRIC TRANSFORMER. UNDERGROUND ELECTRIC DESIGN AND ROUTING BY OTHERS.

GAS KEYNOTES

- G1 GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.

SANITARY SEWER KEYNOTES

- S1 SAND / OIL INTERCEPTOR AND ASSOCIATED SANITARY PIPING DESIGN BY OTHERS. REF: MECHANICAL
- S2 TIE INTO EXISTING 8" SANITARY SEWER LINE. REF: C-540
- S3 CONCRETE ENCASE EXISTING 8" SANITARY SEWER LINE. REF: C-540
- S4 EXTEND EXISTING 8" SANITARY SEWER LINE TO LOT 7. REMOVE EXISTING MANHOLE AND INSTALL A CONNECTION SPLICE AT EXISTING MANHOLE TO BE REMOVED. INSTALL SHALLOW PRECAST SANITARY MANHOLE. REF: C-102, C-340, AND C-540 (LTR)

DOMESTIC WATER AND FIRE KEYNOTES

- W1 HYDRANT - STRAIGHT SET REF: C-520
- W2 DOMESTIC WATER SERVICE CONNECTION WITH METER WELL REF: C-521
- W3 FIRE PROTECTION DOUBLE CHECK DETECTOR CHECK WITH VAULT REF: C-521
- W4 FIRE DEPARTMENT CONNECTION.

| UTILITY LEGEND | |
|----------------|-------------------------------------|
| — UGE — | PROPOSED UNDERGROUND ELECTRIC |
| — FO — | PROPOSED FIBER |
| — G — | PROPOSED GAS |
| — SS — | PROPOSED SANITARY SEWER |
| — SSO — | PROPOSED SANITARY SEWER CLEANOUT |
| ----- | PROPOSED STORM SEWER |
| | PROPOSED CURB INLET |
| | PROPOSED STORMWATER MANHOLE |
| | PROPOSED AREA INLET |
| — W — | PROPOSED WATER |
| | PROPOSED ISOLATION VALVE |
| | PROPOSED FIRE HYDRANT |
| | PROPOSED FIRE DEPARTMENT CONNECTION |

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CHKD BY: ALM

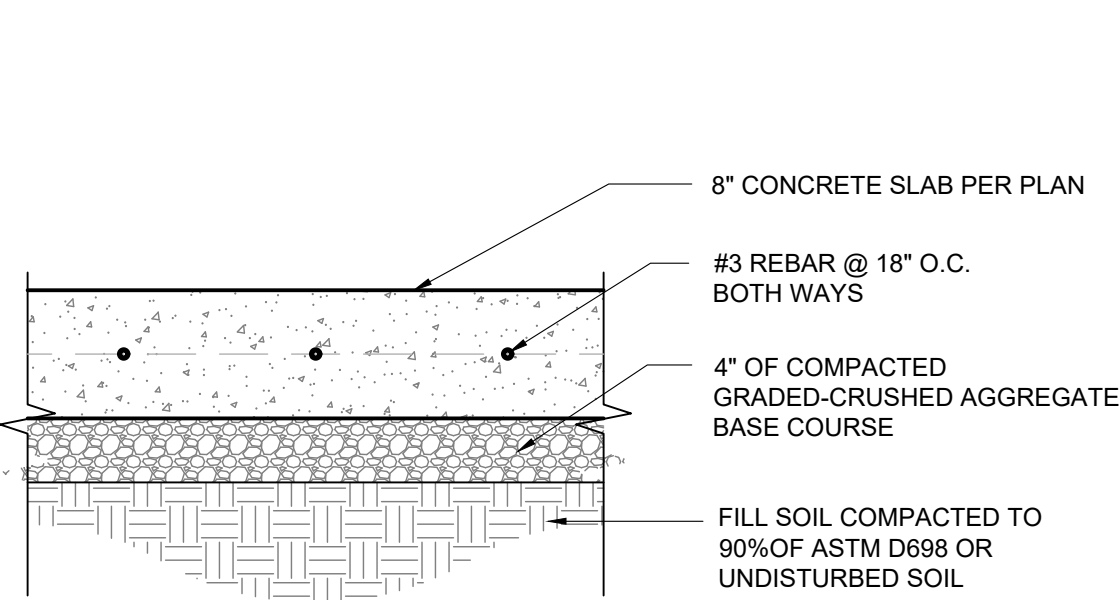
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UTILITY PLAN

C-105

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D

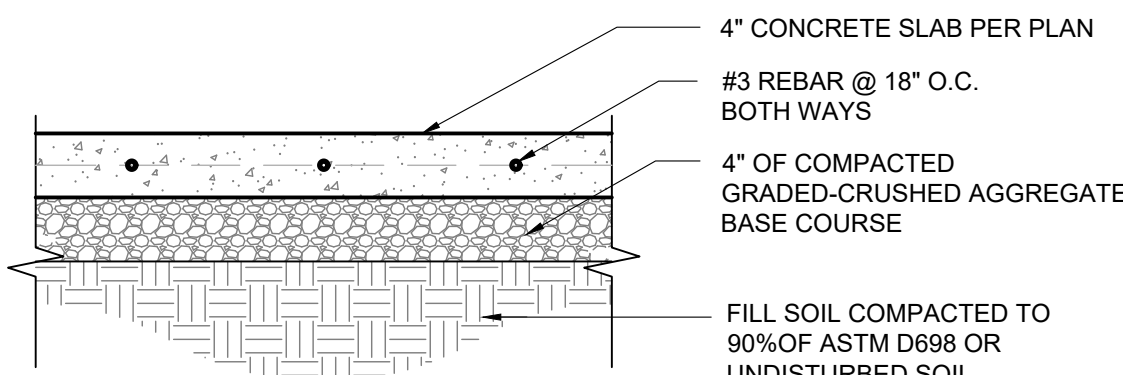


- NOTES:
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - KOMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL CONCRETE PAVING.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

1

TYP. CONCRETE PAVING

D



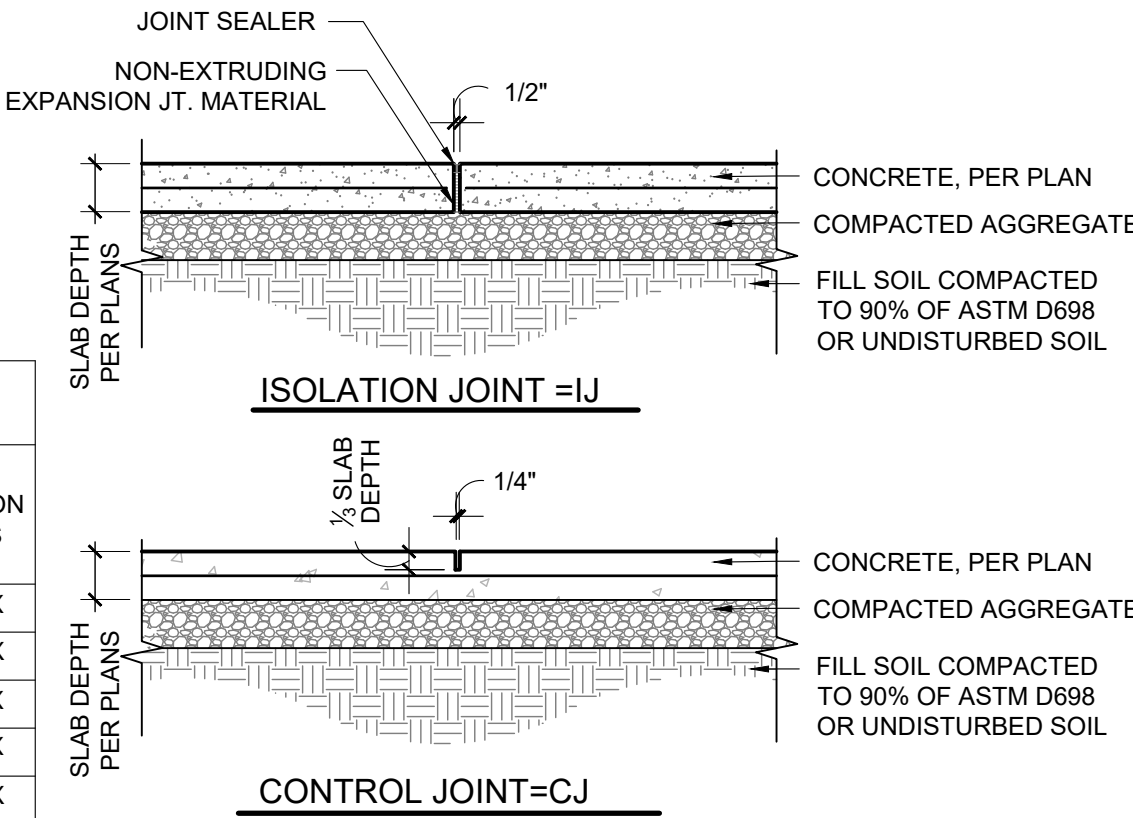
- NOTES:
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 - KOMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS.
 - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF THE SIDEWALK, BUT NO GREATER THAN 10 FT.
 - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK MEETS A DRIVEWAY.
 - SIDEWALK FINISHING SHALL BE FULL BROOM FINISH.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

2

CONCRETE SIDEWALK PAVING

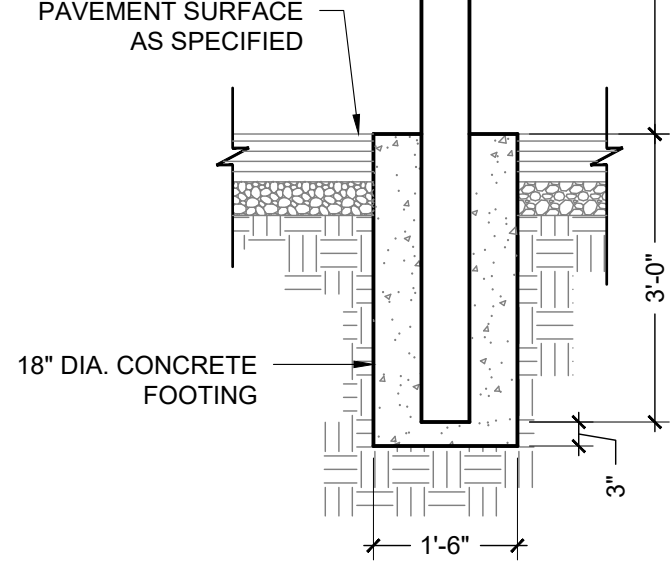
- DETAIL NOTES:
- ALL CONCRETE AT SIDEWALKS IS NONSTRUCTURAL.
 - JOINTS TO BE LOCATED WHERE SHOWN ON PLAN, OR TO MATCH EXISTING JOINTS WHERE INDICATED. CONTRACTION JOINT LOCATIONS SHALL MEET REQUIREMENTS WITHIN THE CONCRETE WALK JOINT SPACING CHART.
 - CONSTRUCT 1/2" EXPANSION JOINTS WHERE SHOWN ON PLAN AND AT STRUCTURES. EXPANSION JOINT LOCATIONS SHALL MEET REQUIREMENTS WITHIN THE CONCRETE WALK JOINT SPACING CHART

| CONCRETE SIDEWALK JOINT SPACING | | | | |
|---------------------------------|------------|--------------|------------------|-----|
| CONTROL JOINTS | | | ISOLATION JOINTS | |
| WIDTH | TRANSVERSE | LONGITUDINAL | | |
| 4' | 4' | NOT REQ'D | 40' | MAX |
| 6' | 6' | NOT REQ'D | 42' | MAX |
| 8' | 4' | 4' | 40' | MAX |
| 10' | 5' | 5' | 40' | MAX |
| 12' | 6' | 6' | 42' | MAX |



3

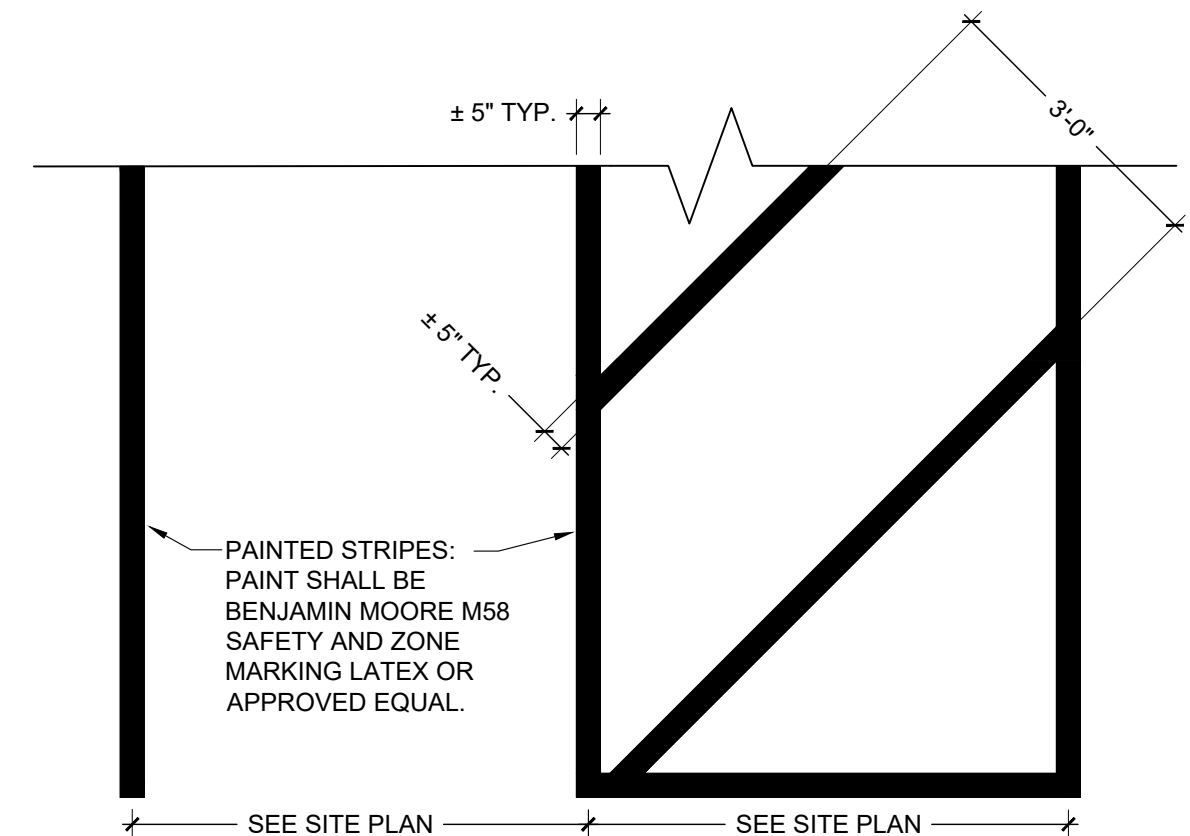
CONCRETE JOINTING



4

TYP. SAFETY BOLLARD

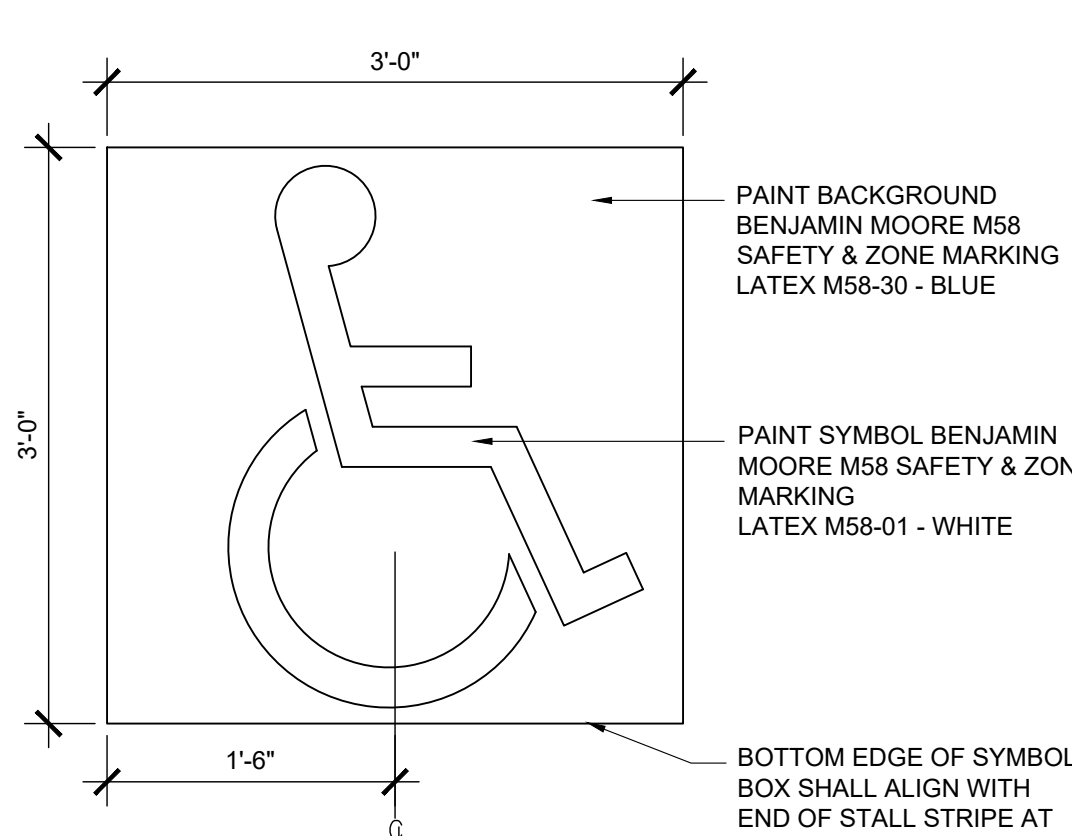
C



5

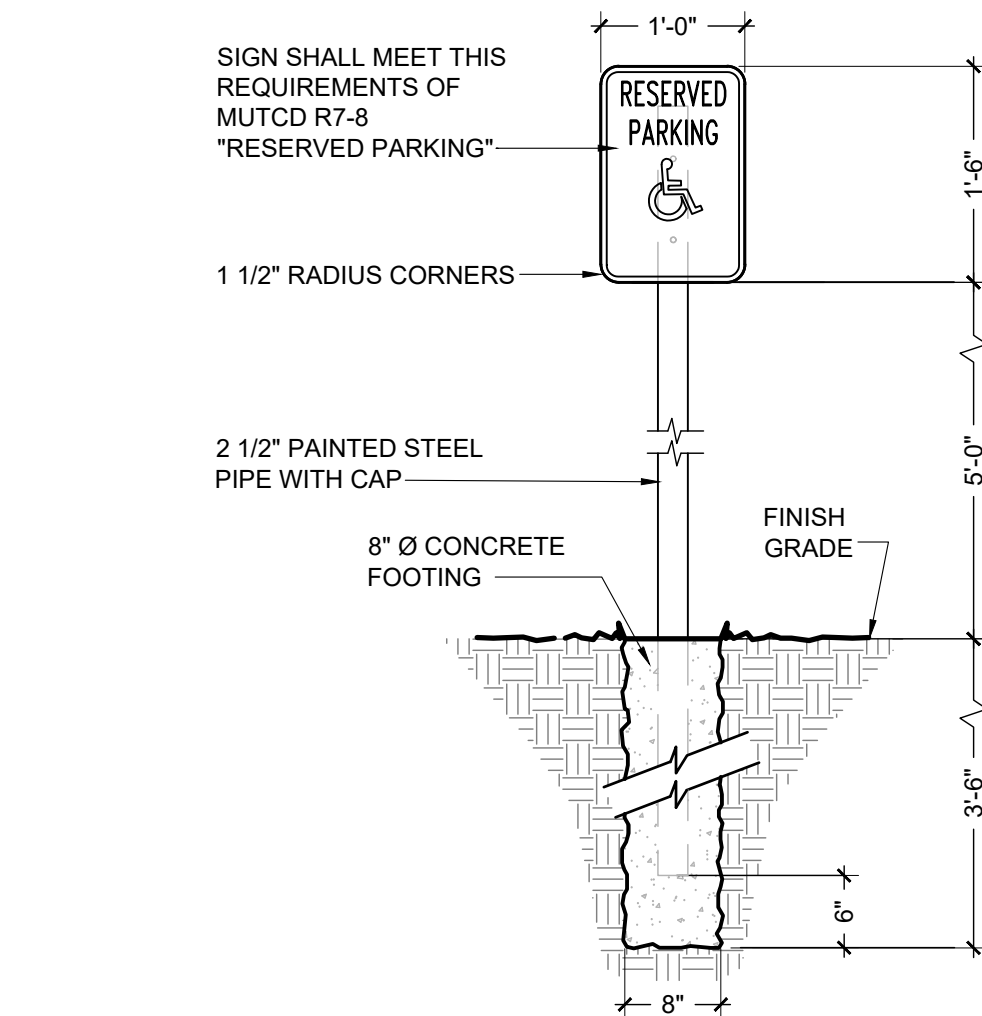
PAVEMENT STRIPING

C



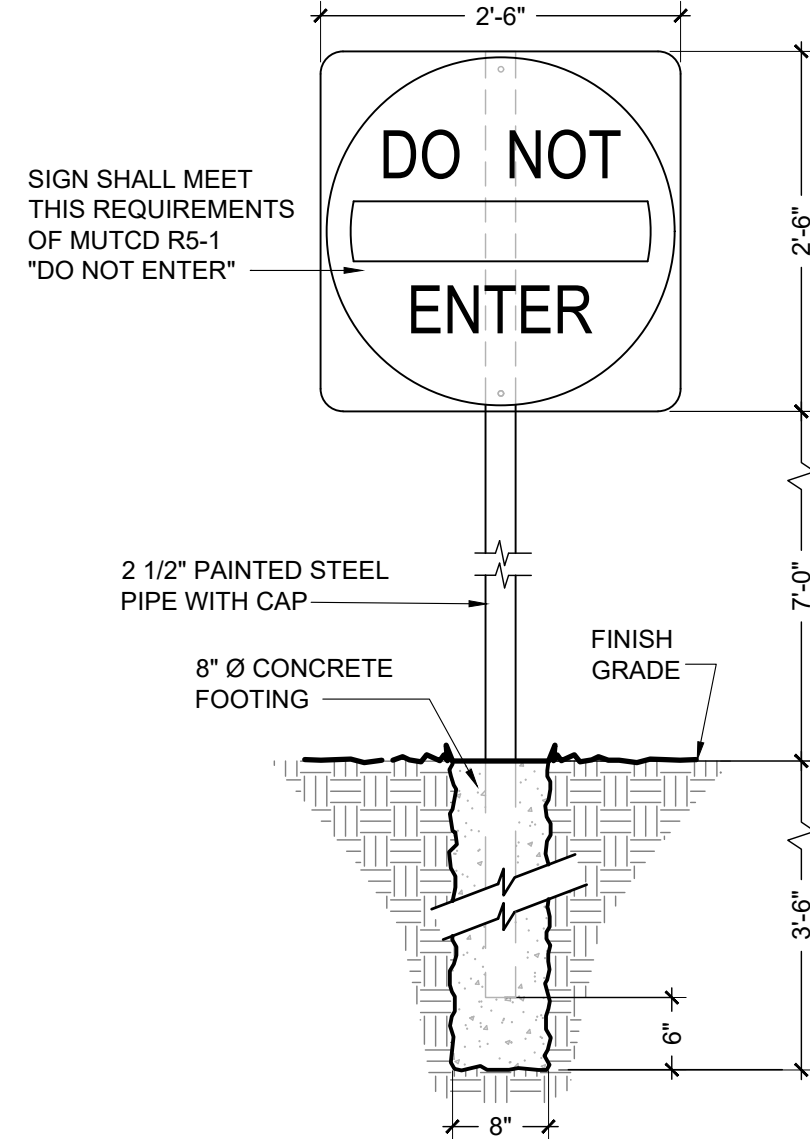
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ADA PAVEMENT MARKING



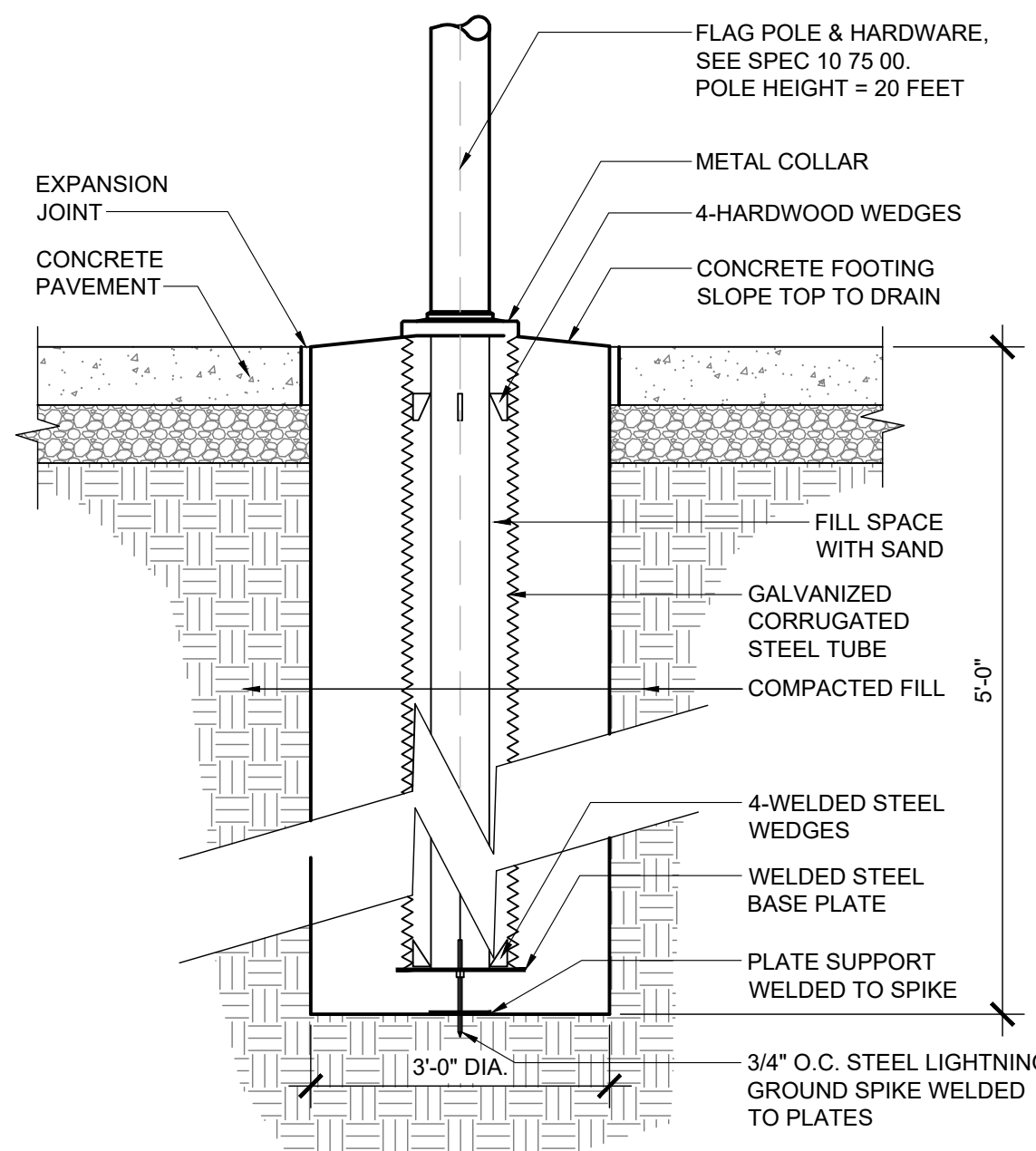
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ADA PARKING SIGN



8

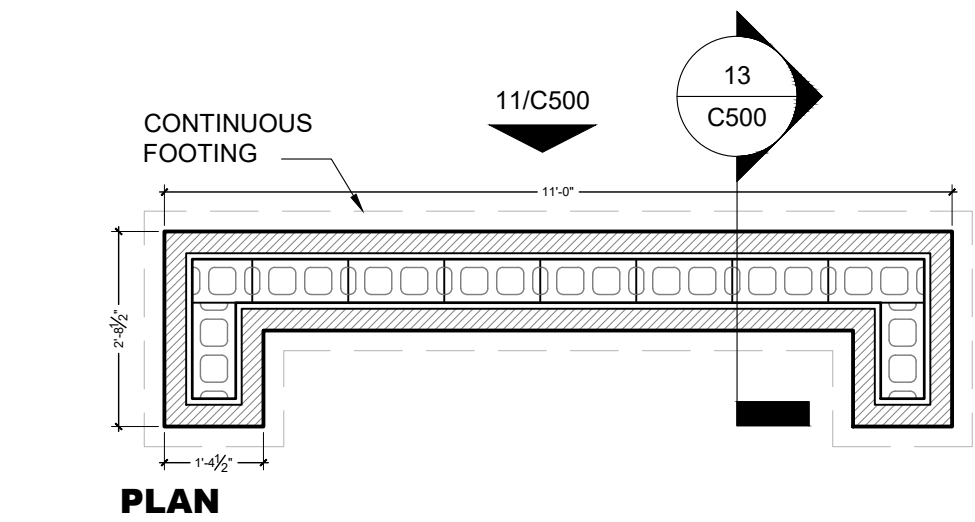
DO NOT ENTER SIGN



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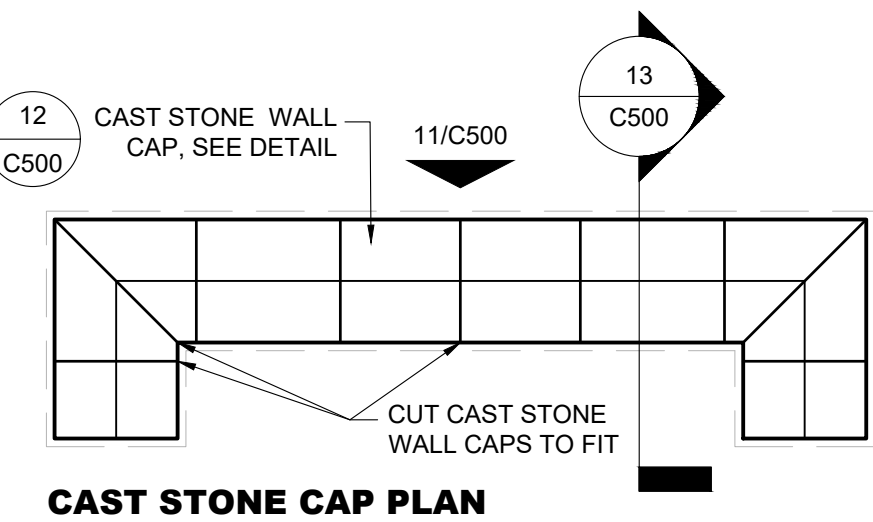
FLAG POLE

B



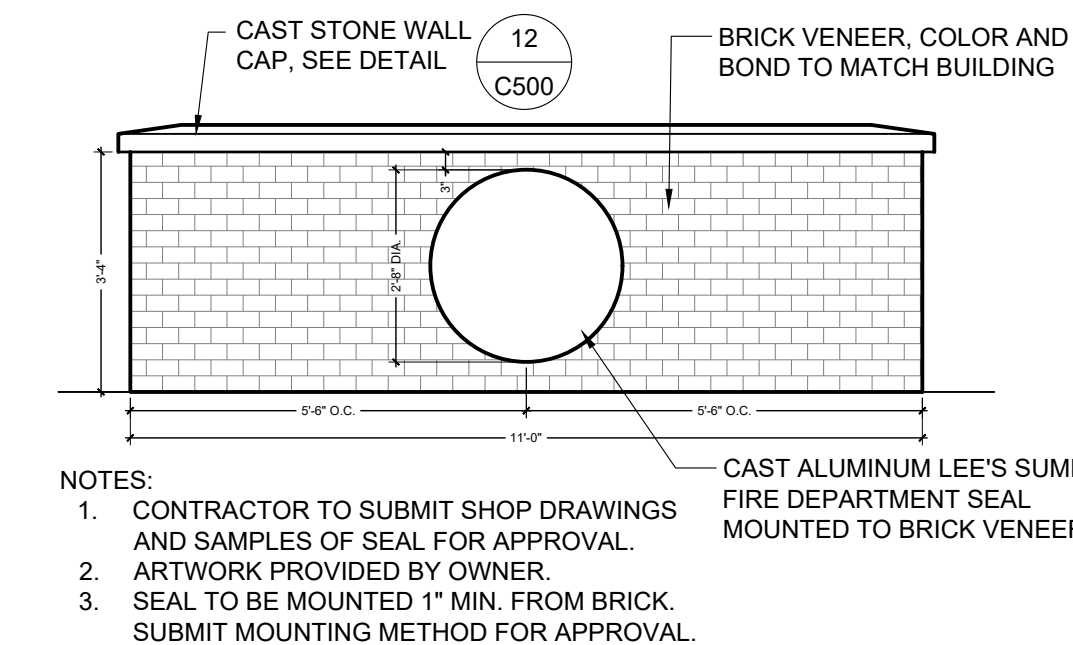
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MONUMENT SIGN



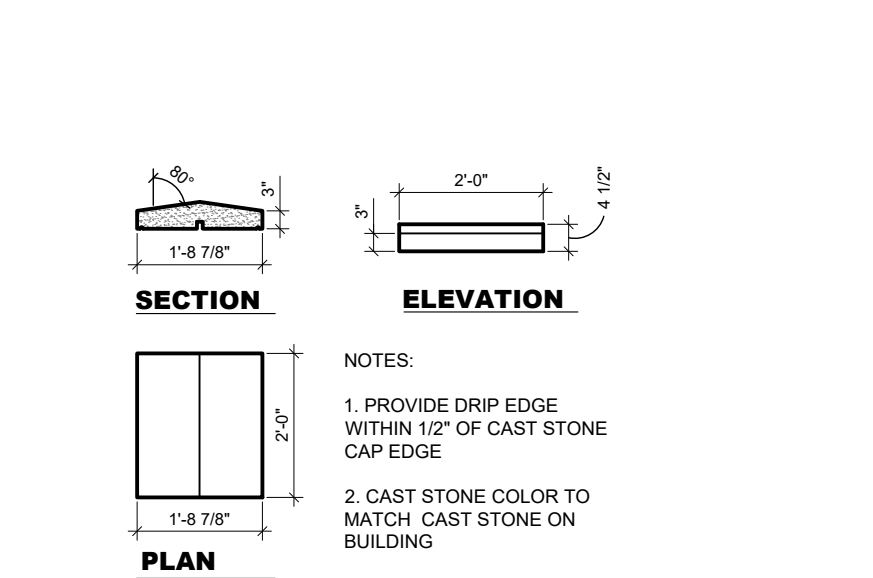
CAST STONE CAP PLAN

A



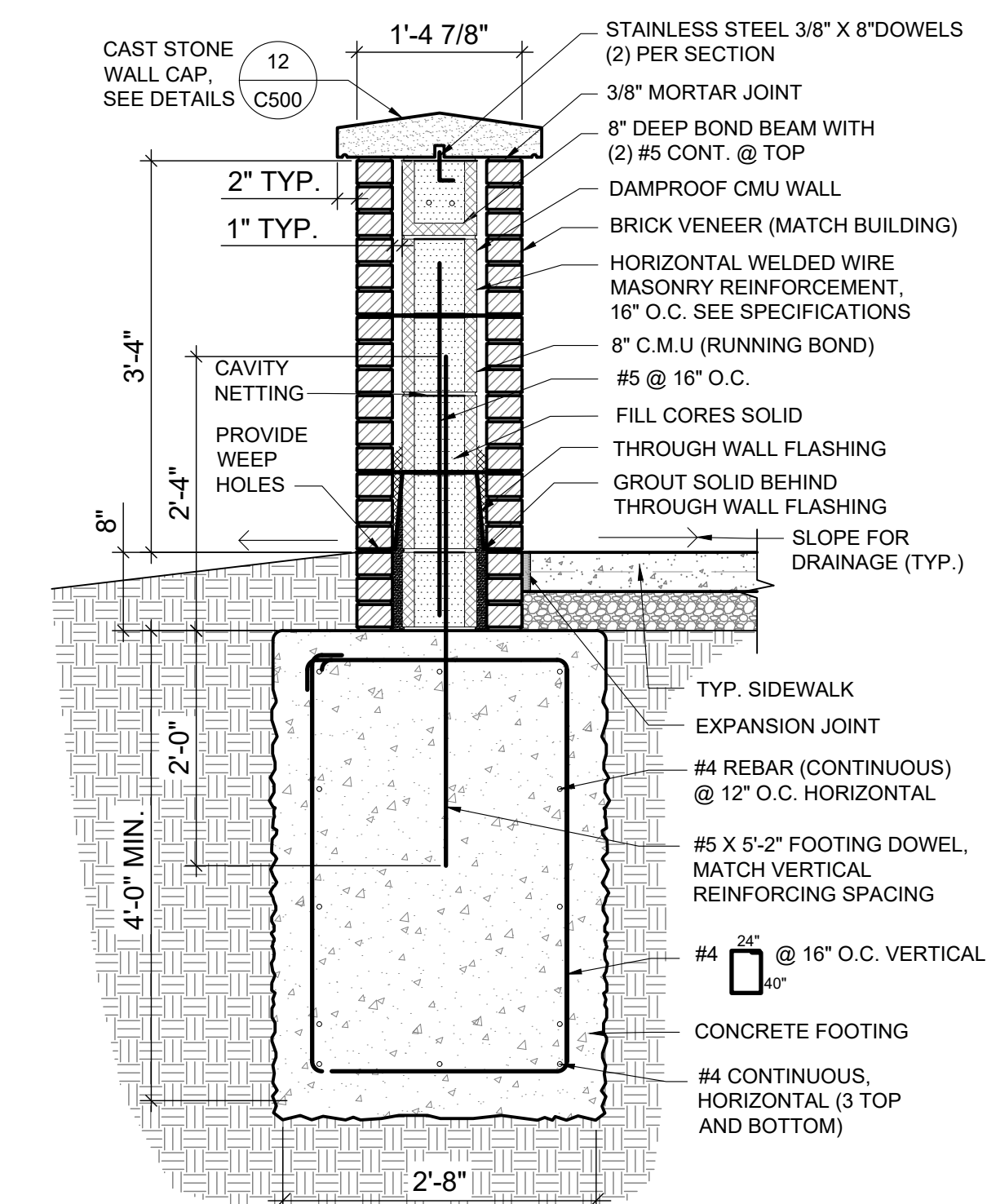
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MONUMENT SIGN ELEVATION



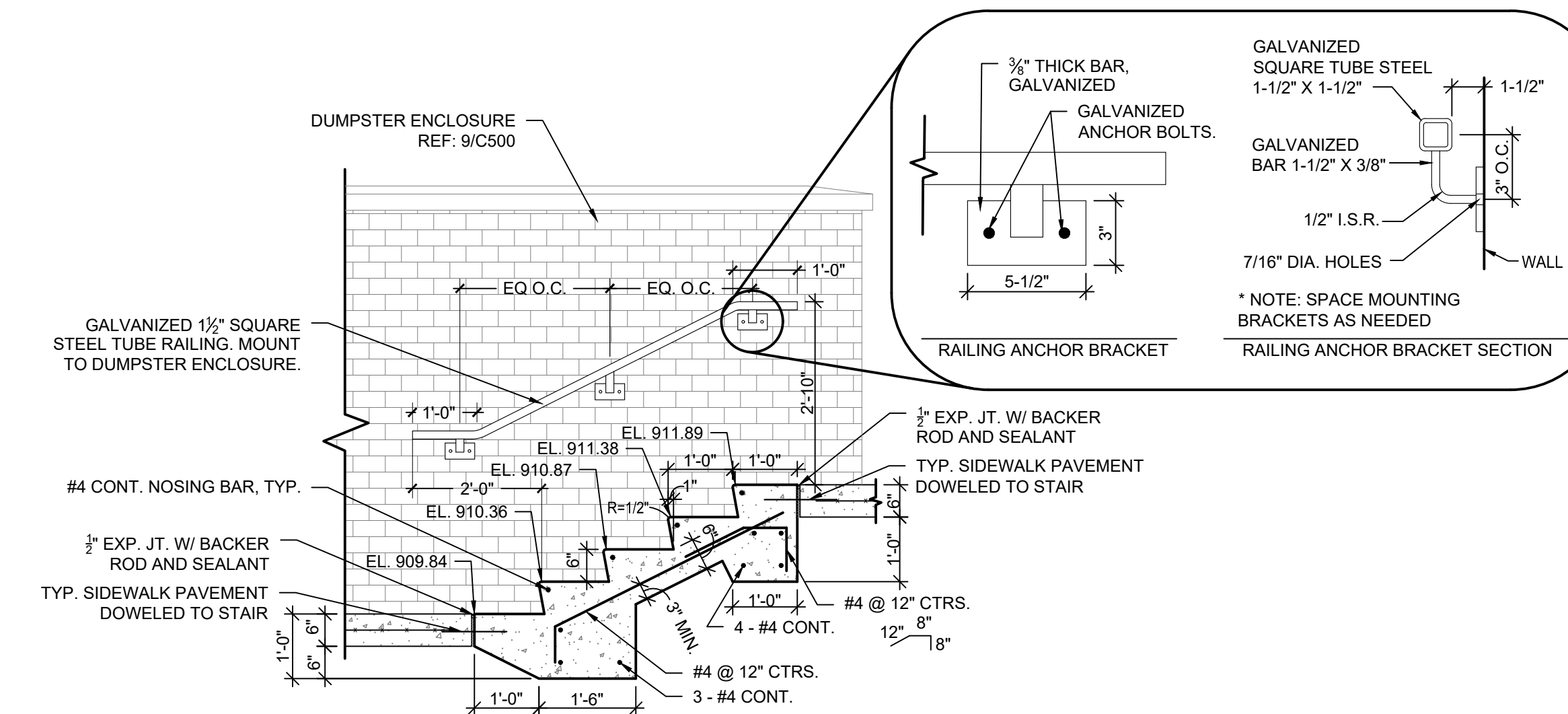
12

MONUMENT SIGN CAP



13

MONUMENT SIGN SECTION



14

CONCRETE STEPS WITH RAILING

9229 WARD PARKWAY
SUITE # 210
KANSAS CITY, MO 64114
TEL: (816) 444-4200
FAX: (316) 265-5646
www.glmv.com

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HENDERSON ENGINEERS
MISSOURI COA #
1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
(816) 663-8700 PHONE

FIRE STATION #4
CITY OF LEE'S SUMMIT

5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

100% DESIGN DEVELOPMENT DRAWINGS

| REVISIONS: | | |
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| # | Description | Date |

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ANGIE MORGAN - CIVIL ENGINEER
MOR# PE-2018031541

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| | |
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| PROJECT NO: | 18225R21001 |
| DATE: | 01.20.2022 |
| DRAWN BY: | KDW |
| CHKD BY: | ALM |

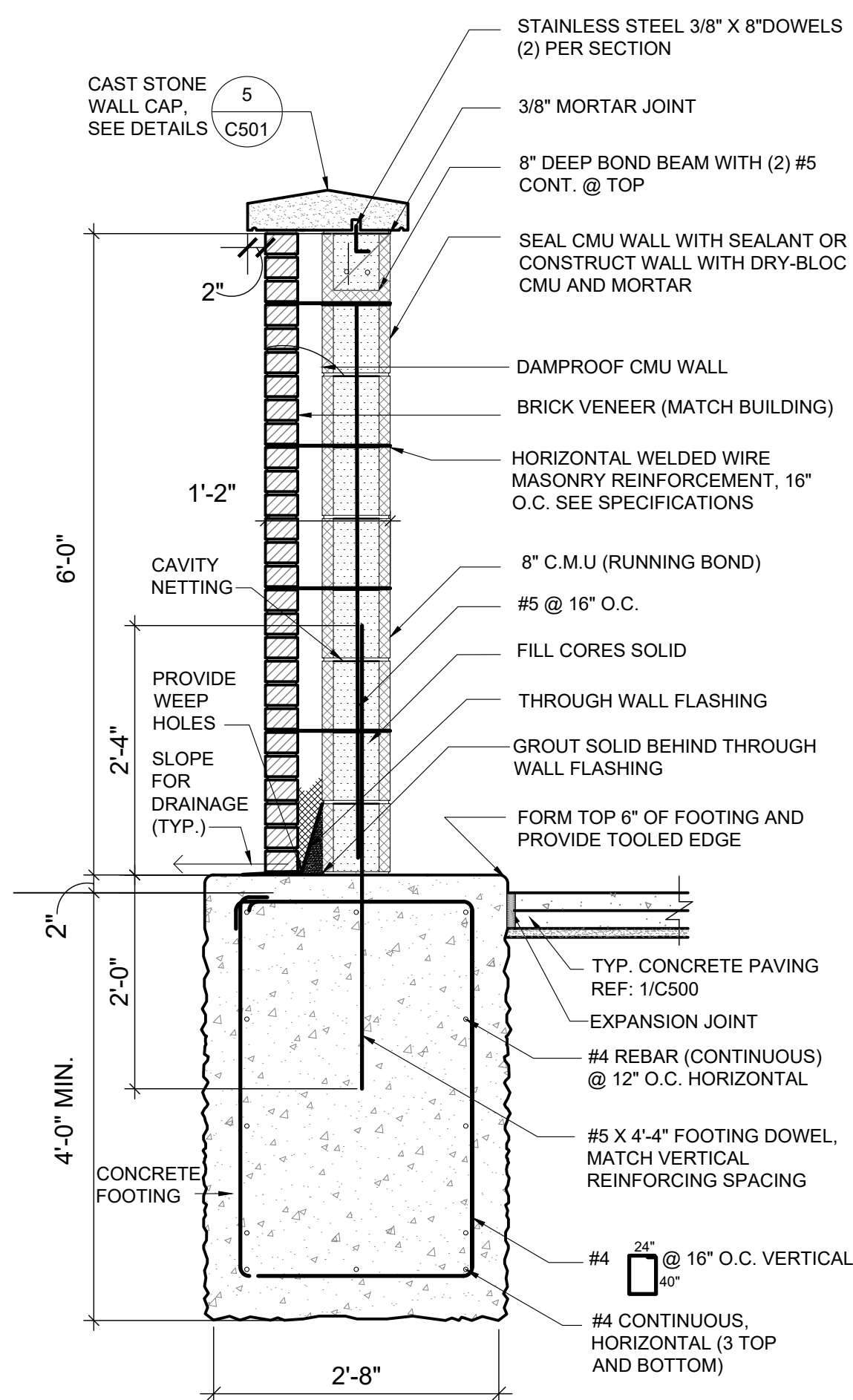
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SITE DETAILS

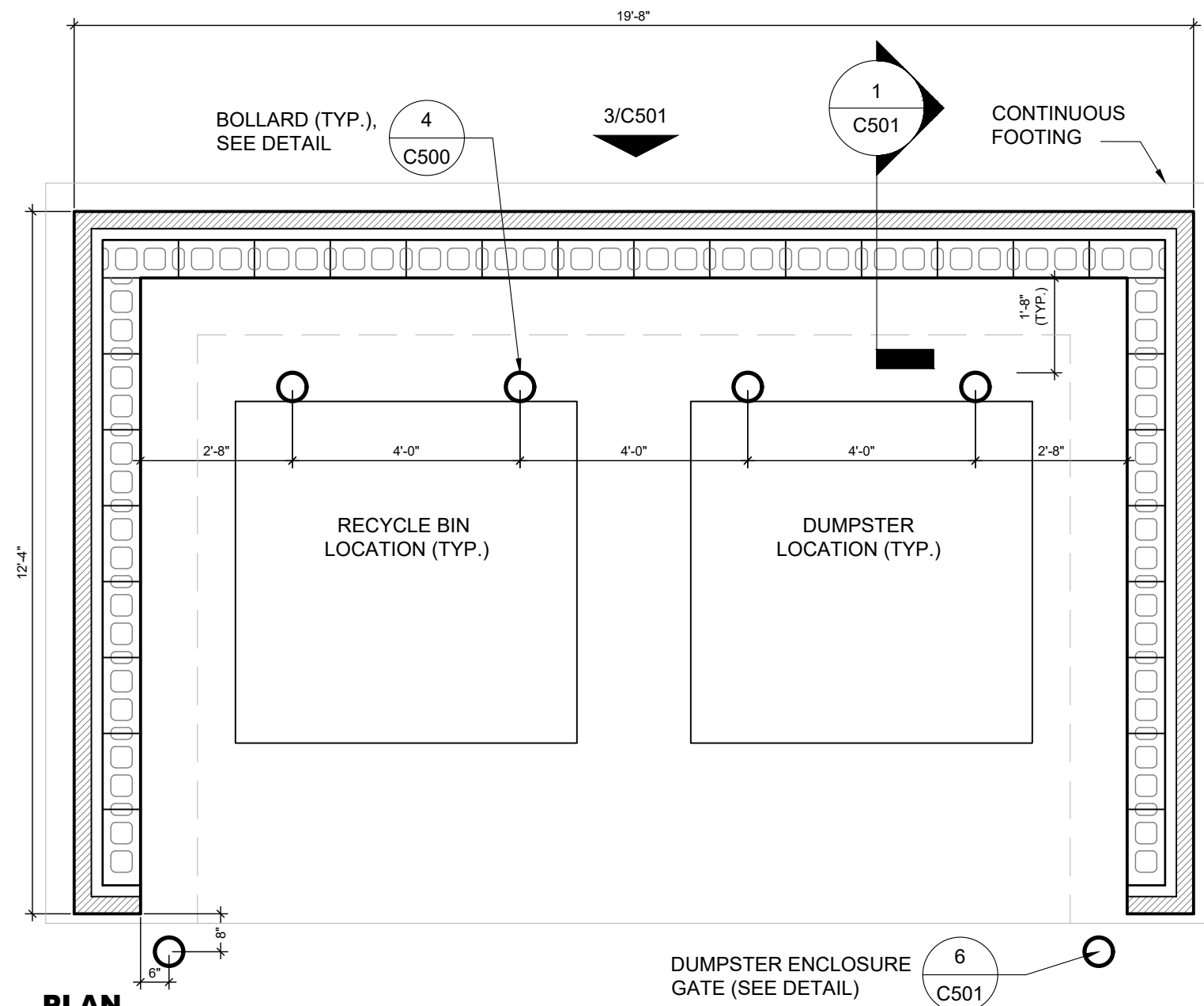
C-500

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1. MATCH CAST STONE CAP MORTAR TO THE MORTAR COLOR USED ON THE BUILDING.
2. AT ALL JOINTS IN CAP, RAKE MORTAR BACK AND INSTALL BOND BREAKER AND SEALANT.
3. PAINT EXPOSED CMU WALL TO MATCH CAST STONE.

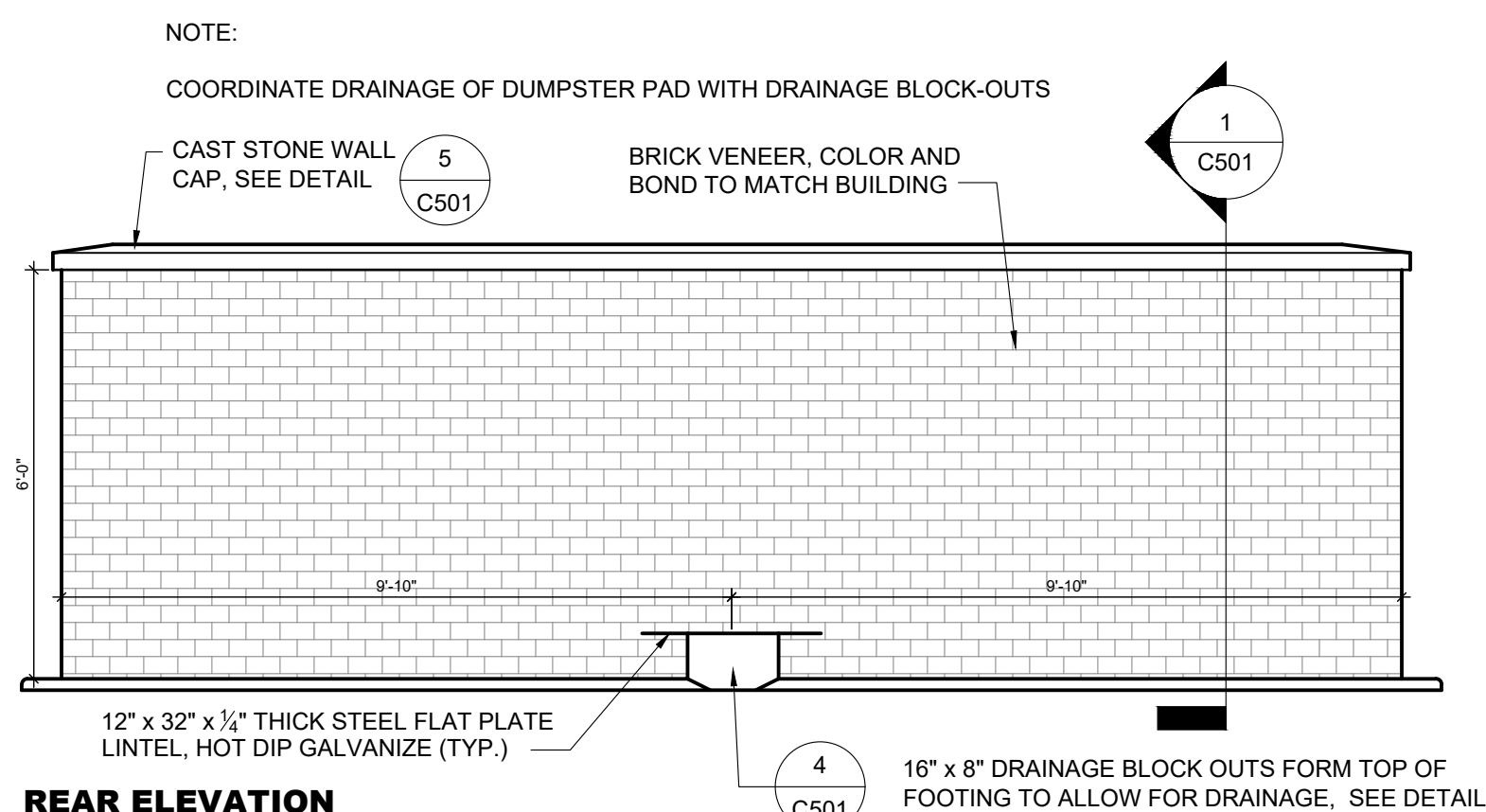


DUMPSTER ENCLOSURE WALL SECTION

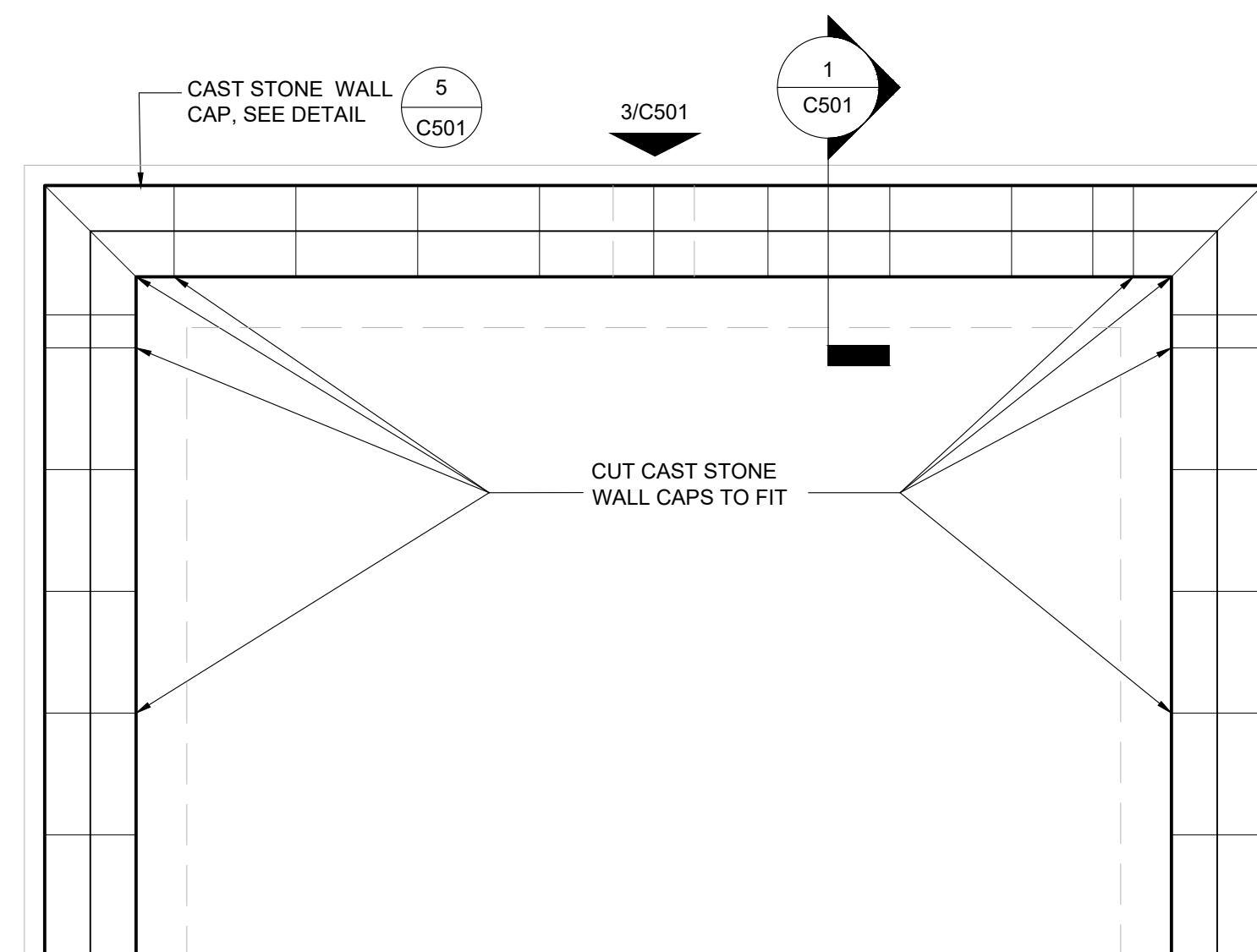
$$\frac{3}{4}'' = 1'$$


PLAN GATE (SEE DETAIL) C501

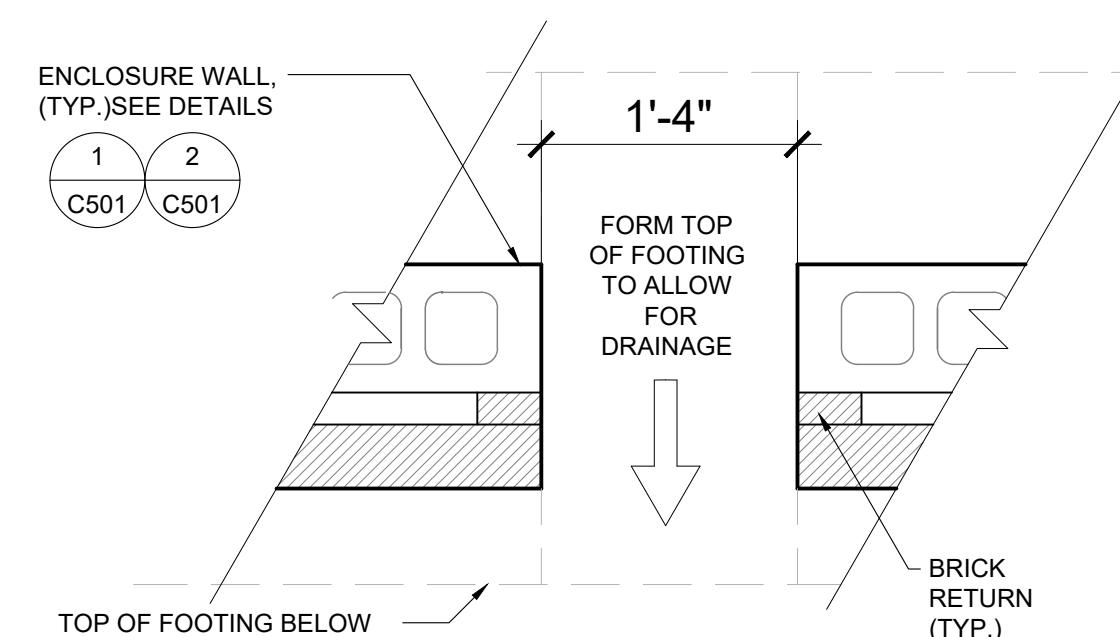
DUMPSTER ENCLOSURE PLAN

$$\frac{3}{8}'' = 1'$$


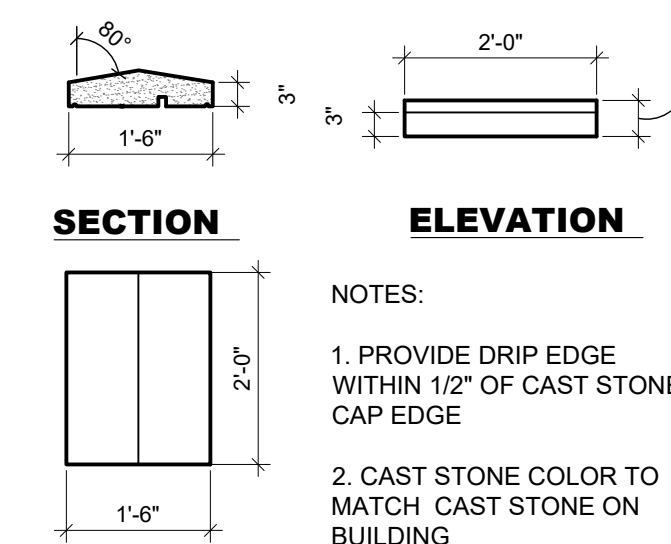
2 DUMPSTER ENCLOSURE ELEVATION

$$\frac{3}{8}'' = 1'$$


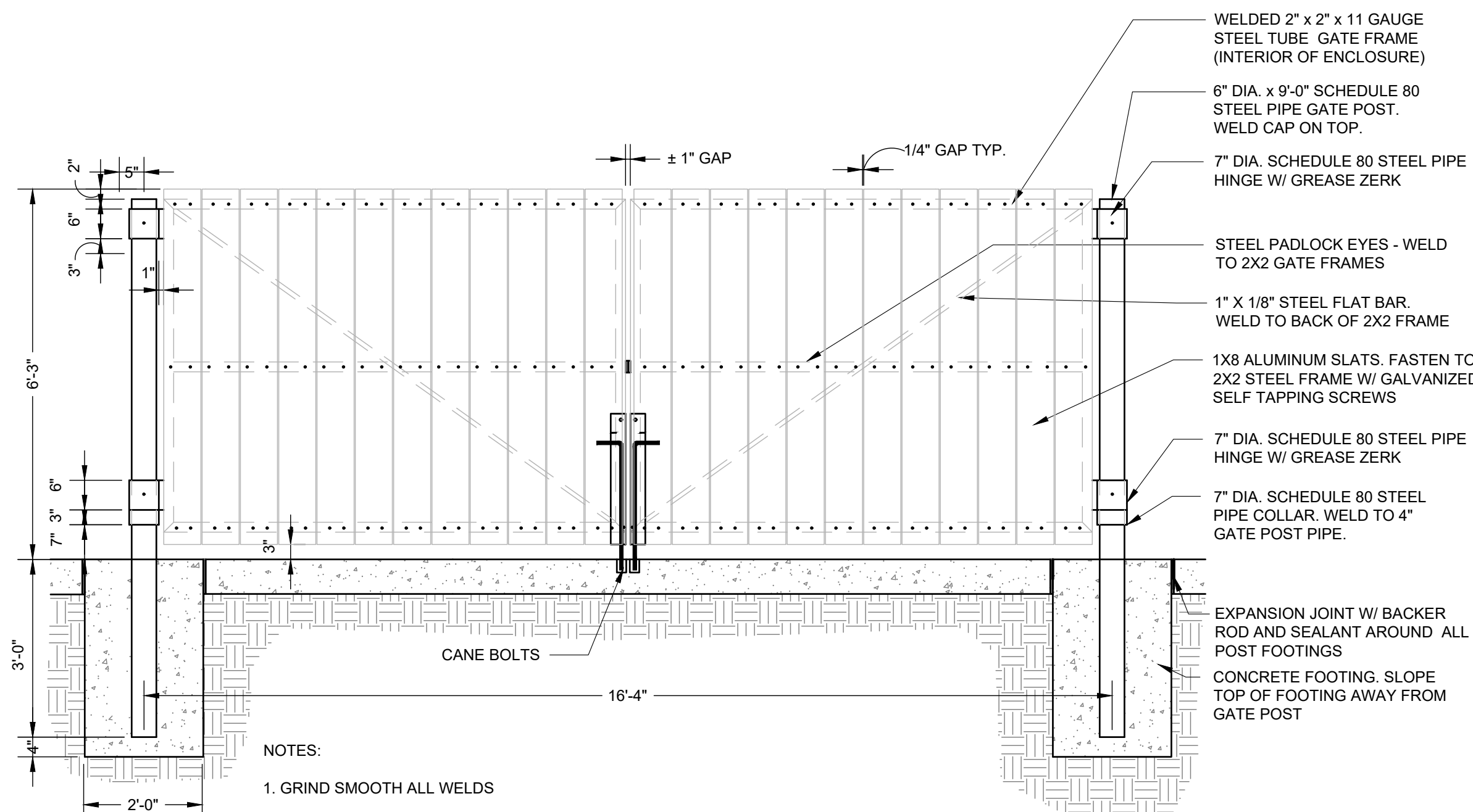
CAST STONE CAP PLAN



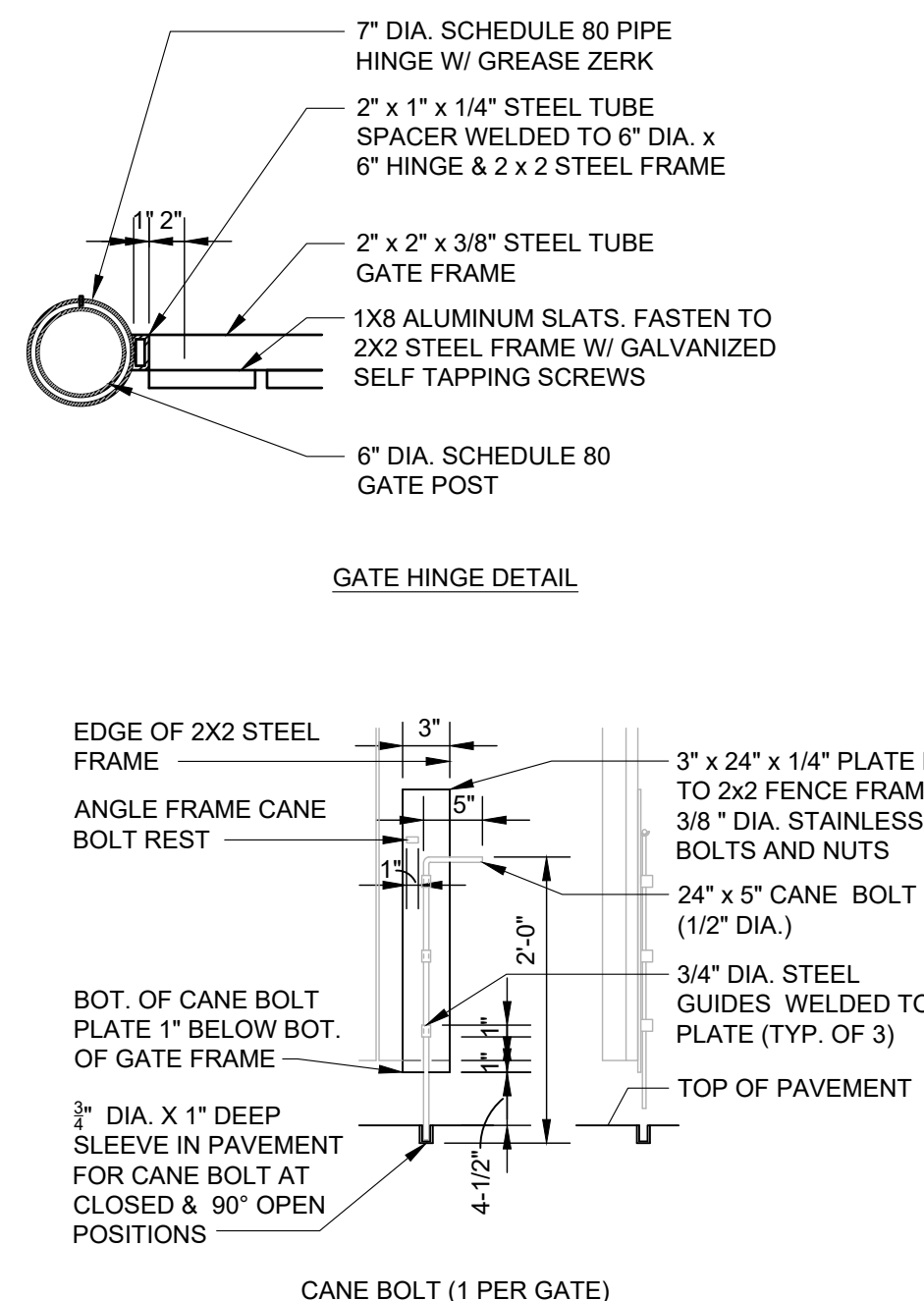
4 DRAINAGE BLOCK-OUT

 $1'' = 1'$ 

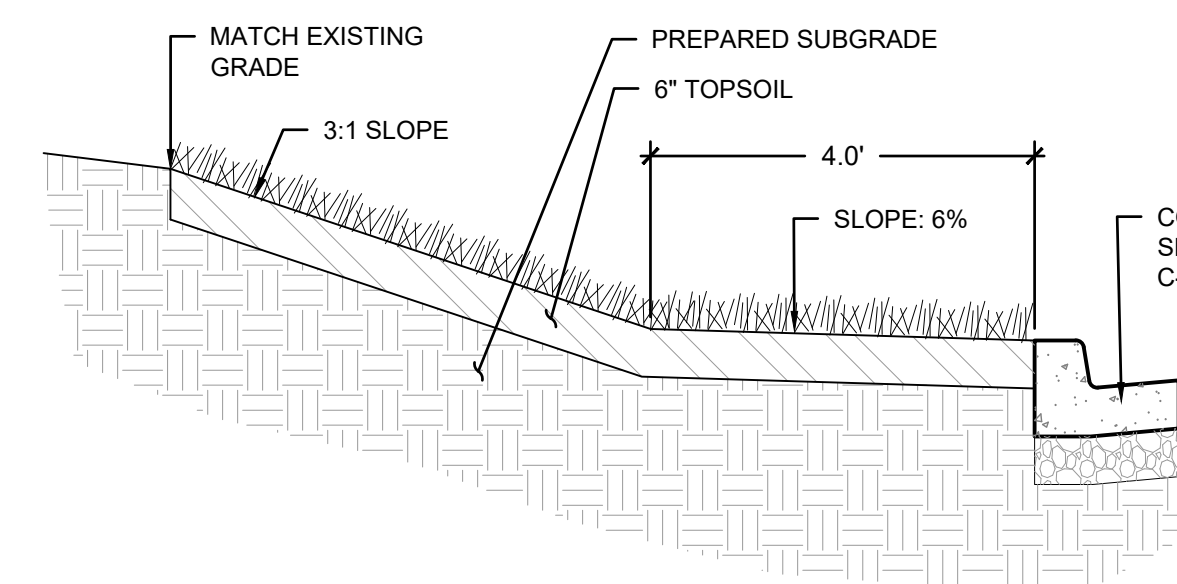
CAST STONE WALL CAP

$$1/2^n = 1/2$$


DUMPSTER ENCLOSURE GATE

$$\frac{3}{4}'' = 1'$$


SITE PERIMETER CUT SLOPE SECTION

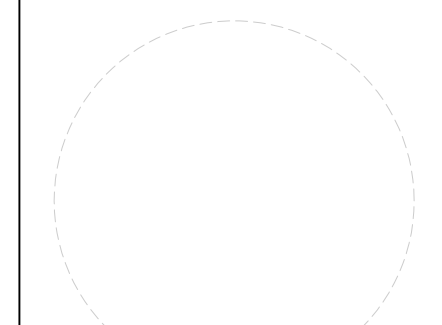
$$1/2^n = 1$$


7 SITE PERIMETER CUT SLOPE SECTION



| REVISIONS: | | |
|------------|-------------|------|
| # | Description | Date |

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| DATE: | 01.20.2022 |
| DRAWN BY: | KDW |
| CHK'D BY: | ALM |

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SITE DETAILS

C-501

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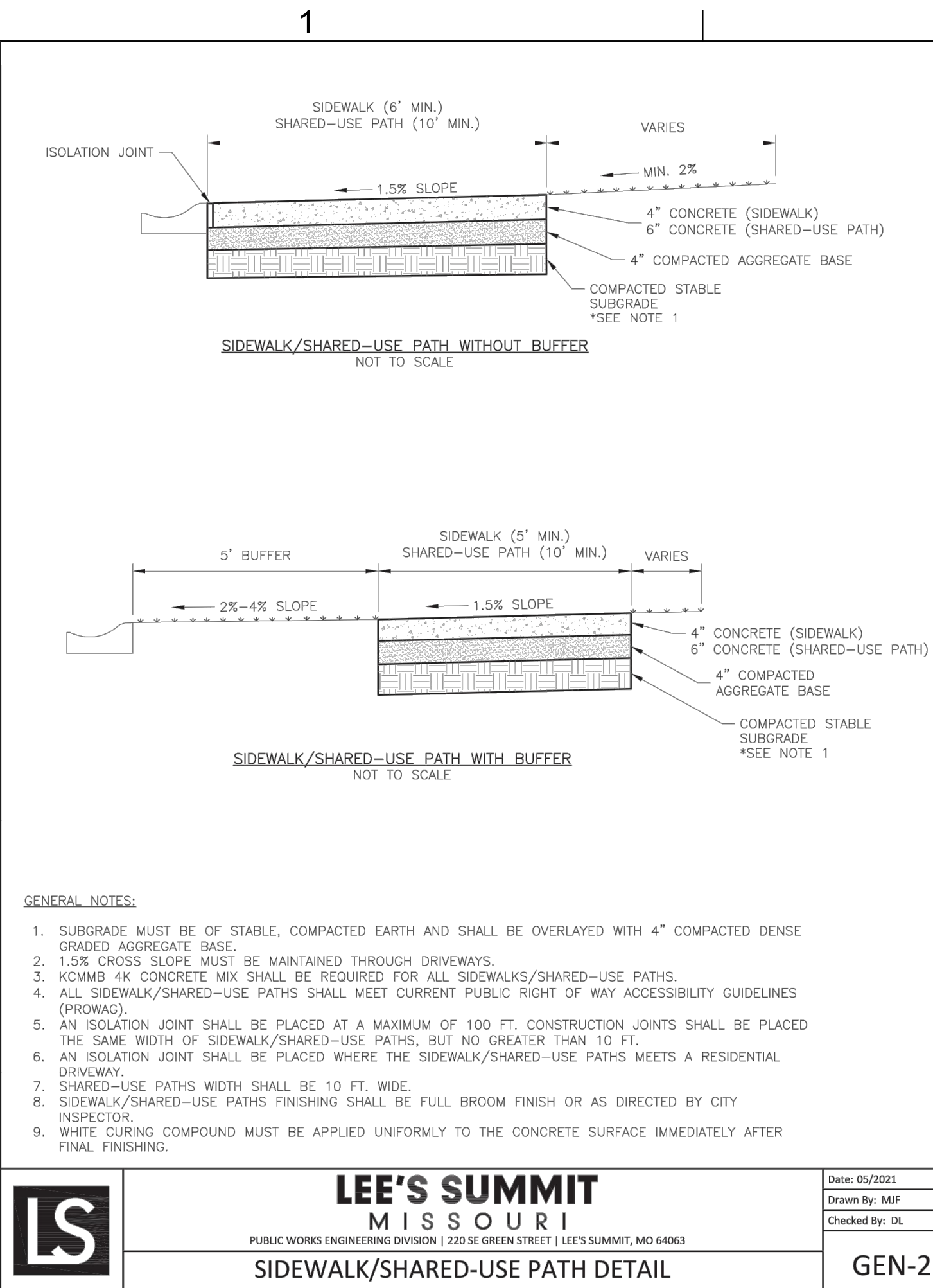
GEN-1

GEN-9

GEN-4

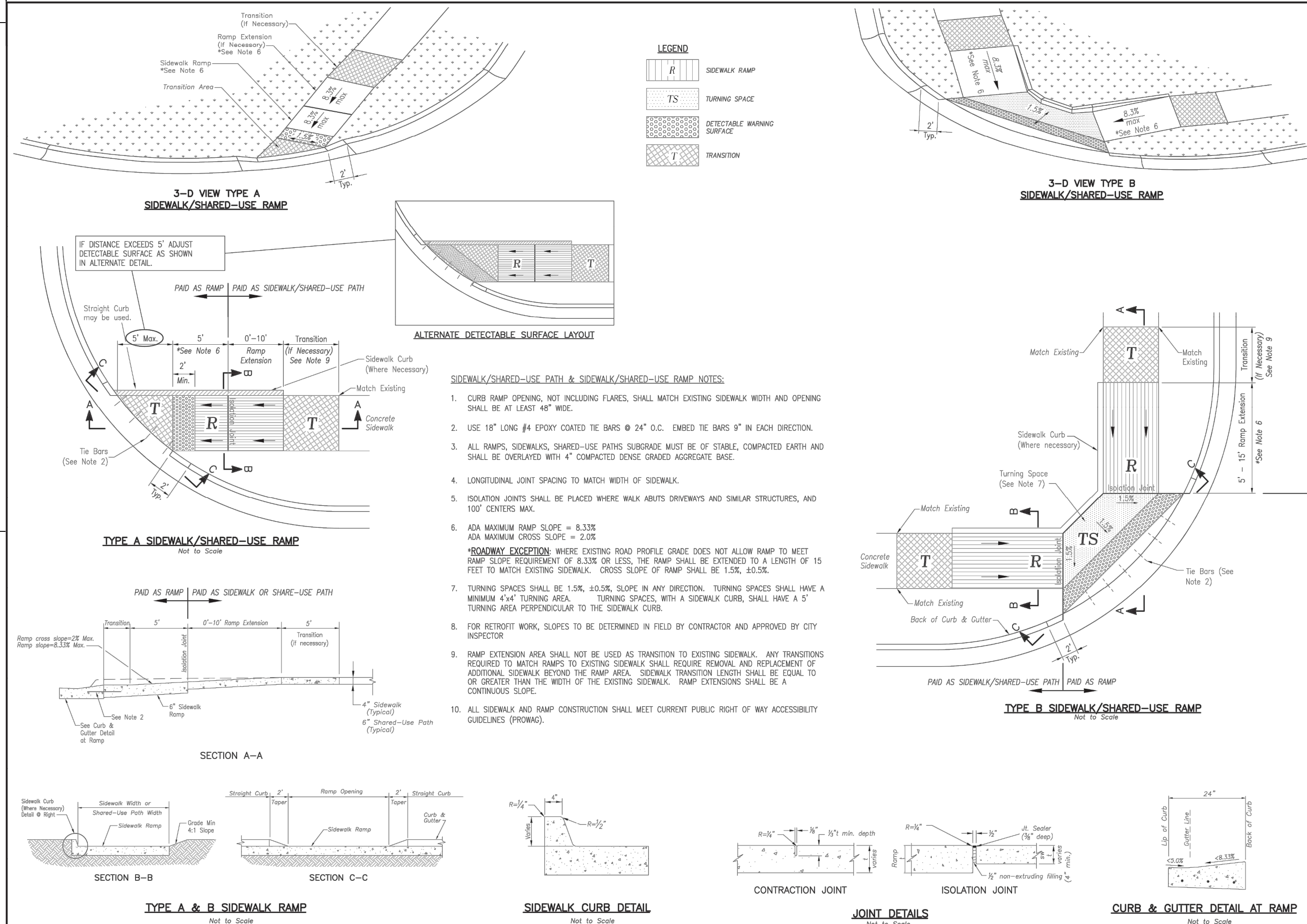
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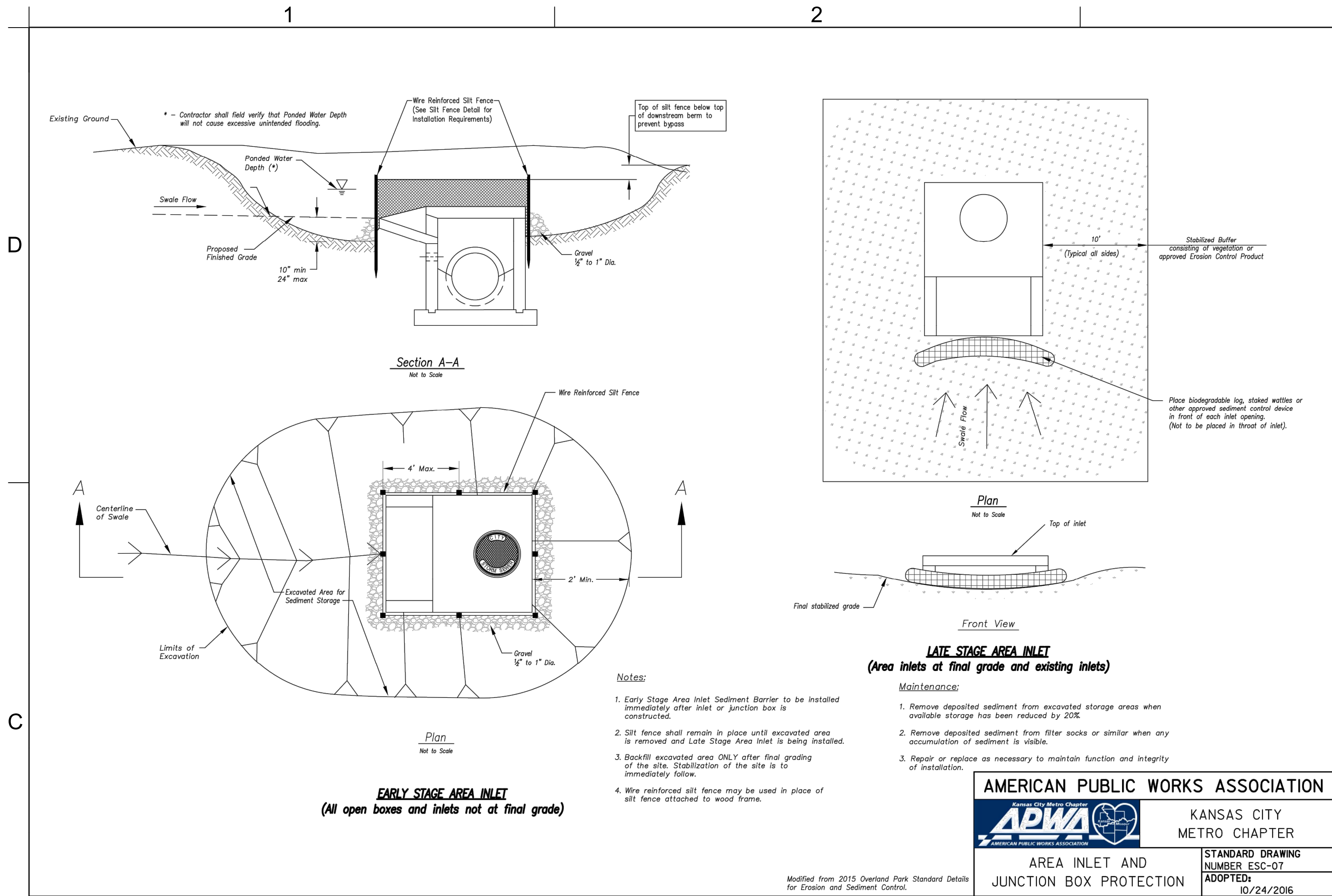
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1

AREA INLET AND JUNCTION BOX PROTECTION

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KANSAS CITY, MO 64108
(816) 663-8700 PHONE

FIRE STATION #4
CITY OF LEE'S SUMMIT
5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MISSOURI 64064

REVISIONS:

| # | Description | Date |
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PROJECT NO: 18225R21001
DATE: 01.20.2022
DRAWN BY: DMH
CHKD BY: ALM

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EROSION
CONTROL
DETAILS

C-511

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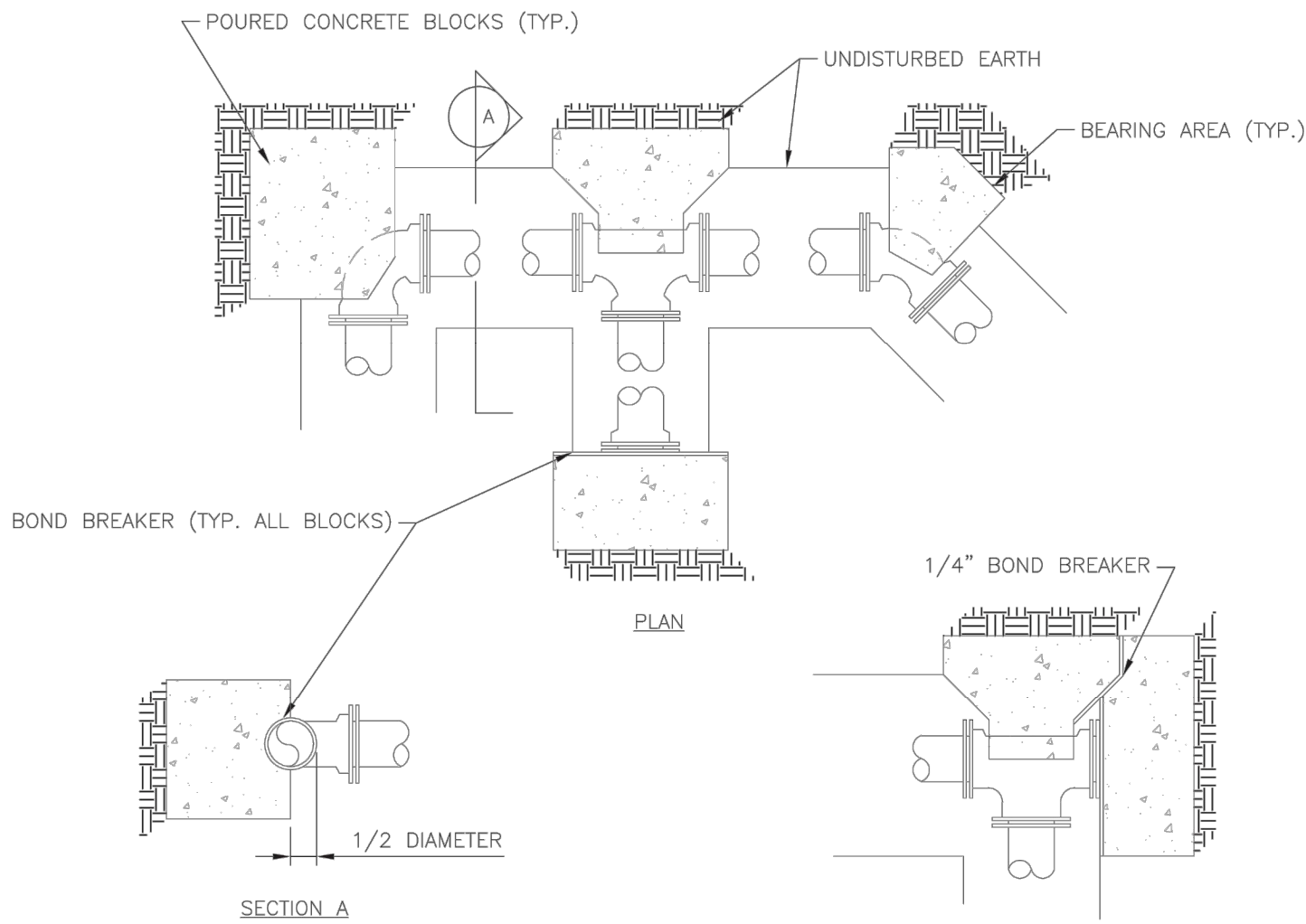
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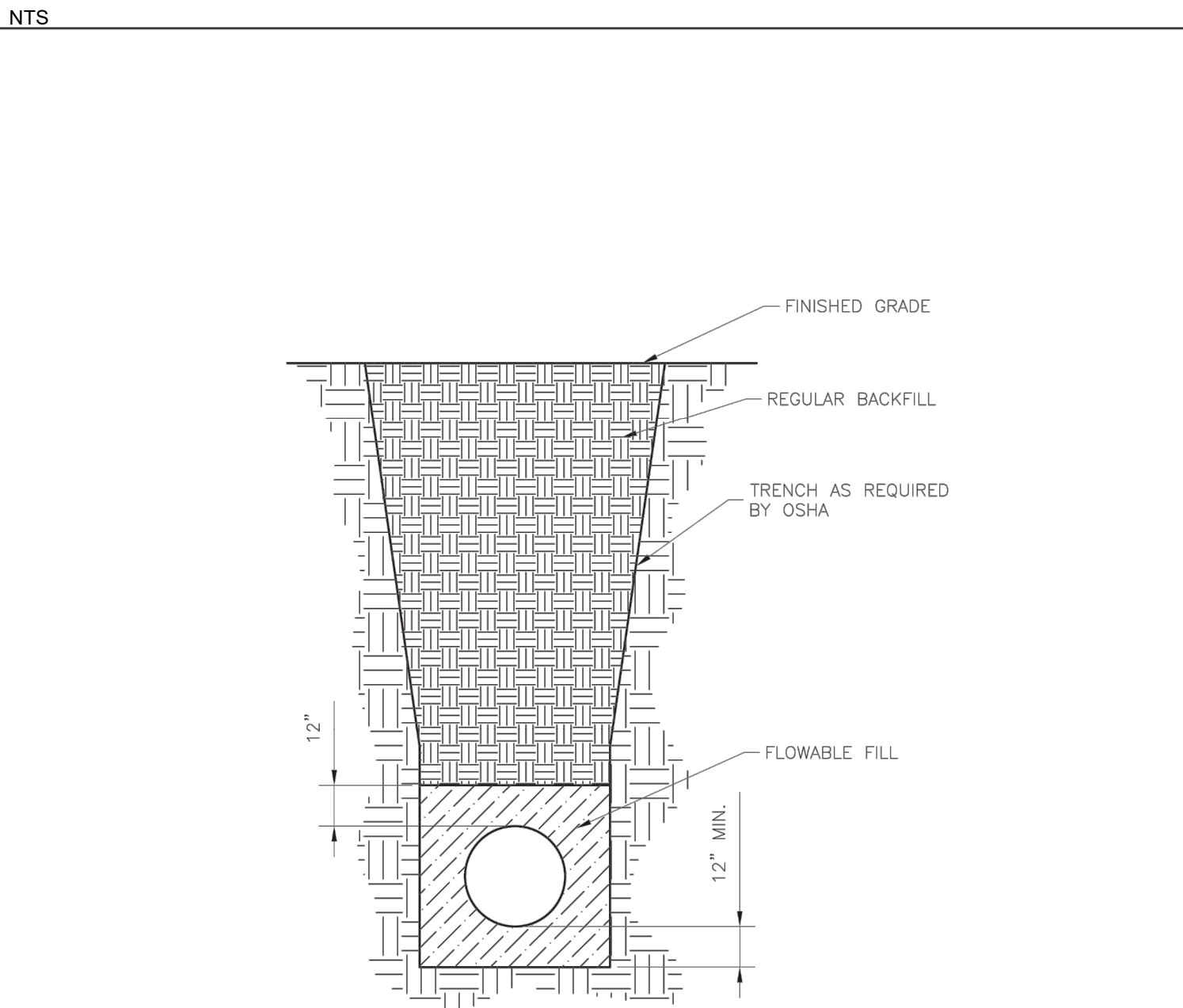
| REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF) | | | | | |
|---|------------------|-----------|-----------|------------|-------------|
| NOM. DIA. (INCHES) | 180 TEE, PLUG | 90° BEND | 45° BEND | 22.5° BEND | 11.25° BEND |
| 6 | 4.7 | 6.7 | 4.0 | 4.0 | 4.0 |
| 8 | 8.4 | 11.8 | 6.4 | 4.0 | 4.0 |
| 10 | 13.1 | 18.5 | 10.0 | 5.1 | 4.0 |
| 12 | 18.8 | 26.7 | 14.4 | 7.4 | 4.0 |
| 14 | 25.7 | 36.3 | 19.6 | 10.0 | 5.0 |
| 16 | 33.5 | 47.4 | 25.6 | 13.1 | 6.6 |
| 18 | 42.4 | 60.1 | 32.5 | 16.5 | 8.3 |
| 20 | REST. JT. | REST. JT. | 40.1 | 20.4 | 10.3 |
| 24 | REST. JT. | REST. JT. | REST. JT. | 29.4 | 14.8 |



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

| | | |
|--------------------------------|---|----------------|
| LS | LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small> | Date: 01/2016 |
| | | Drawn By: JN |
| | | Checked By: DL |
| HORIZONTAL THRUST BLOCK | | WAT-1 |

1 HORIZONTAL THRUST BLOCK

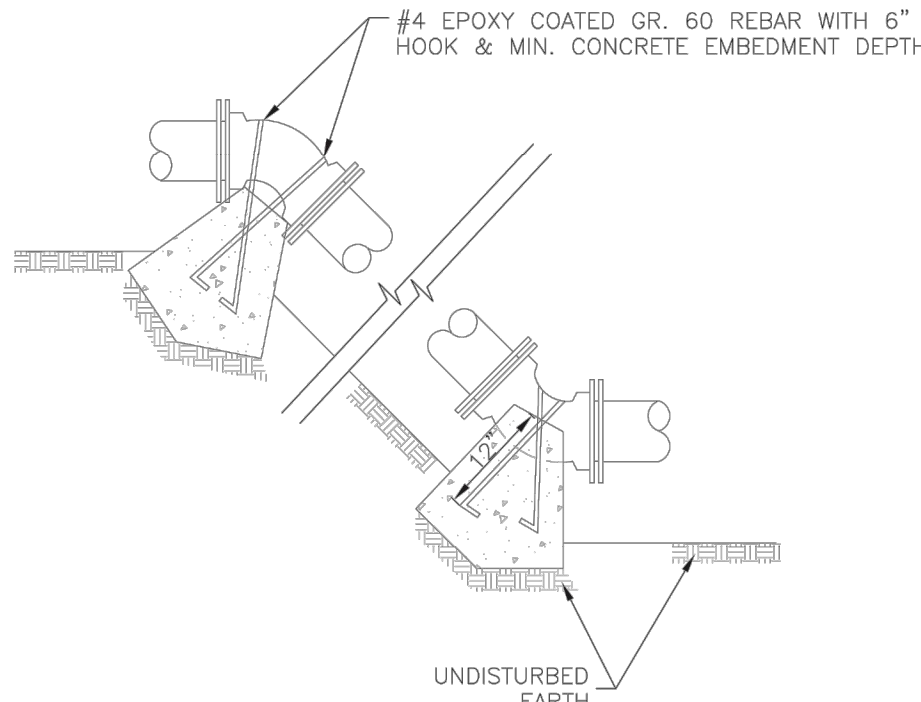


- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

| | | |
|----------------------------------|---|----------------|
| LS | LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small> | Date: 01/2016 |
| | | Drawn By: JN |
| | | Checked By: DL |
| WATER TRENCH CHECK DETAIL | | WAT-6 |

4 WATER TRENCH CHECK DETAIL

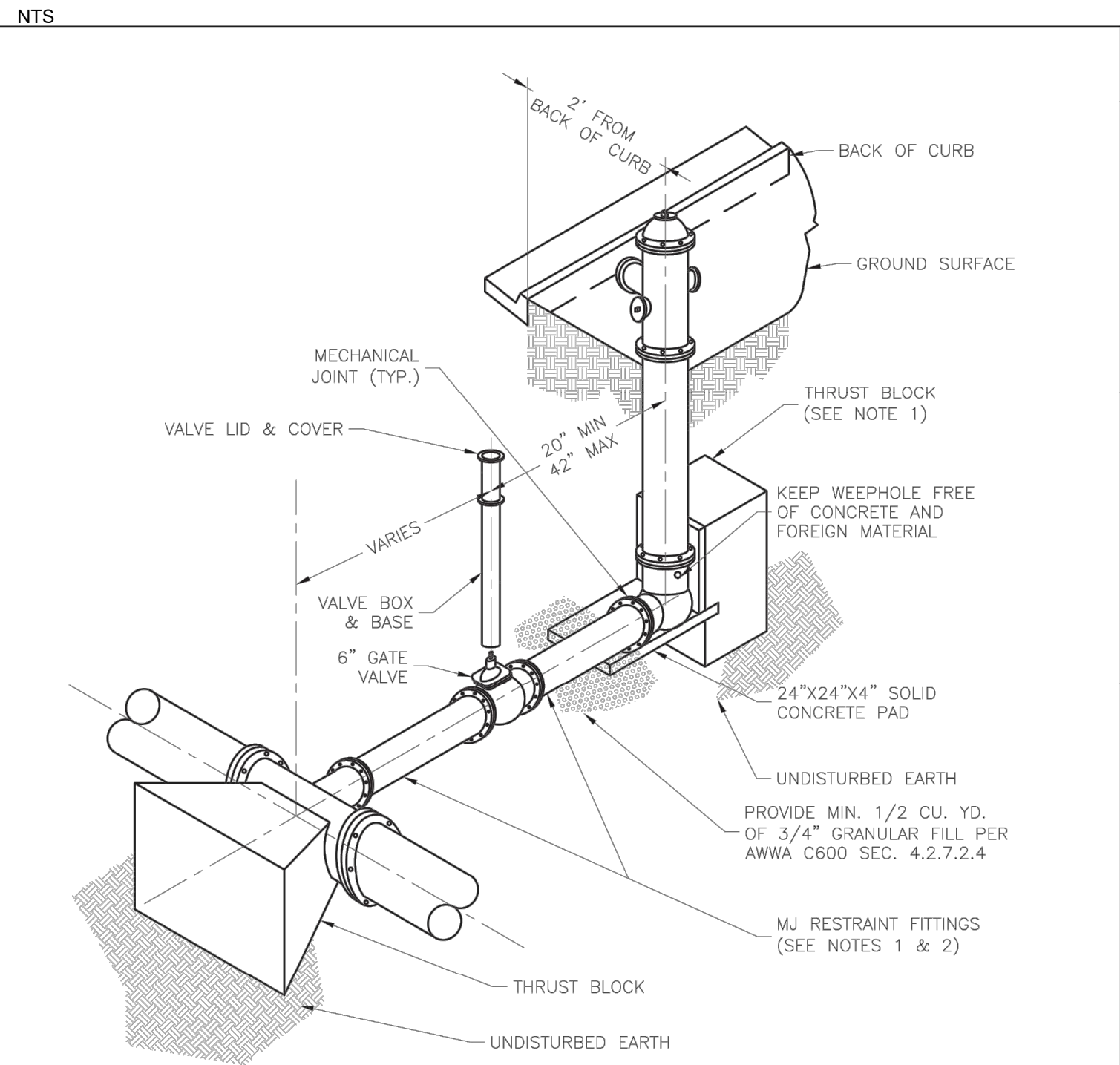
| REQUIRED CONCRETE VOLUME (CUBIC FEET – CF) | | | | | |
|--|------------------|-----------|-----------|------------|-------------|
| NOM. DIA. (INCHES) | 180 TEE, PLUG | 90° BEND | 45° BEND | 22.5° BEND | 11.25° BEND |
| 6 | 50.5 | 71.4 | 38.6 | 19.7 | 9.9 |
| 8 | 89.8 | 126.9 | 68.7 | 35.0 | 17.6 |
| 10 | 140.2 | 198.3 | 107.3 | 54.7 | 27.5 |
| 12 | 202.0 | REST. JT. | 154.6 | 78.8 | 39.6 |
| 14 | REST. JT. | REST. JT. | 210.4 | 107.3 | 53.9 |
| 16 | REST. JT. | REST. JT. | REST. JT. | 140.1 | 70.4 |
| 18 | REST. JT. | REST. JT. | REST. JT. | 177.3 | 89.1 |
| 20 | REST. JT. | REST. JT. | REST. JT. | REST. JT. | 110.0 |
| 24 | REST. JT. | REST. JT. | REST. JT. | REST. JT. | 158.4 |



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

| | | |
|------------------------------|---|----------------|
| LS | LEE'S SUMMIT MISSOURI <small>PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063</small> | Date: WAT-2 |
| | | Drawn By: JN |
| | | Checked By: DL |
| VERTICAL THRUST BLOCK | | WAT-2 |

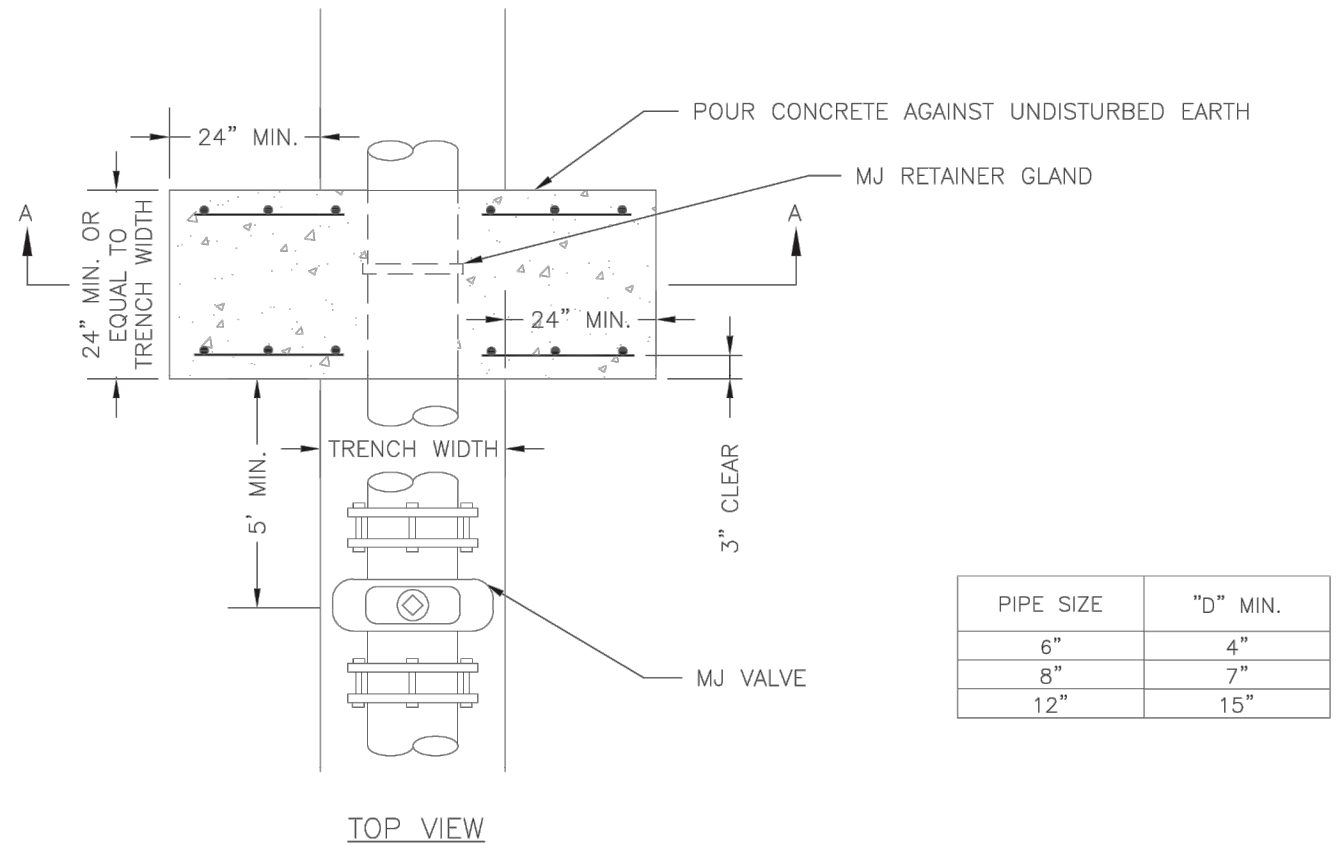
2 VERTICAL THRUST BLOCK



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

| | | |
|-------------------------------|---|----------------|
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| | | Drawn By: JN |
| | | Checked By: DL |
| HYDRANT - STRAIGHT SET | | WAT-7 |

5 HYDRANT - STRAIGHT SET

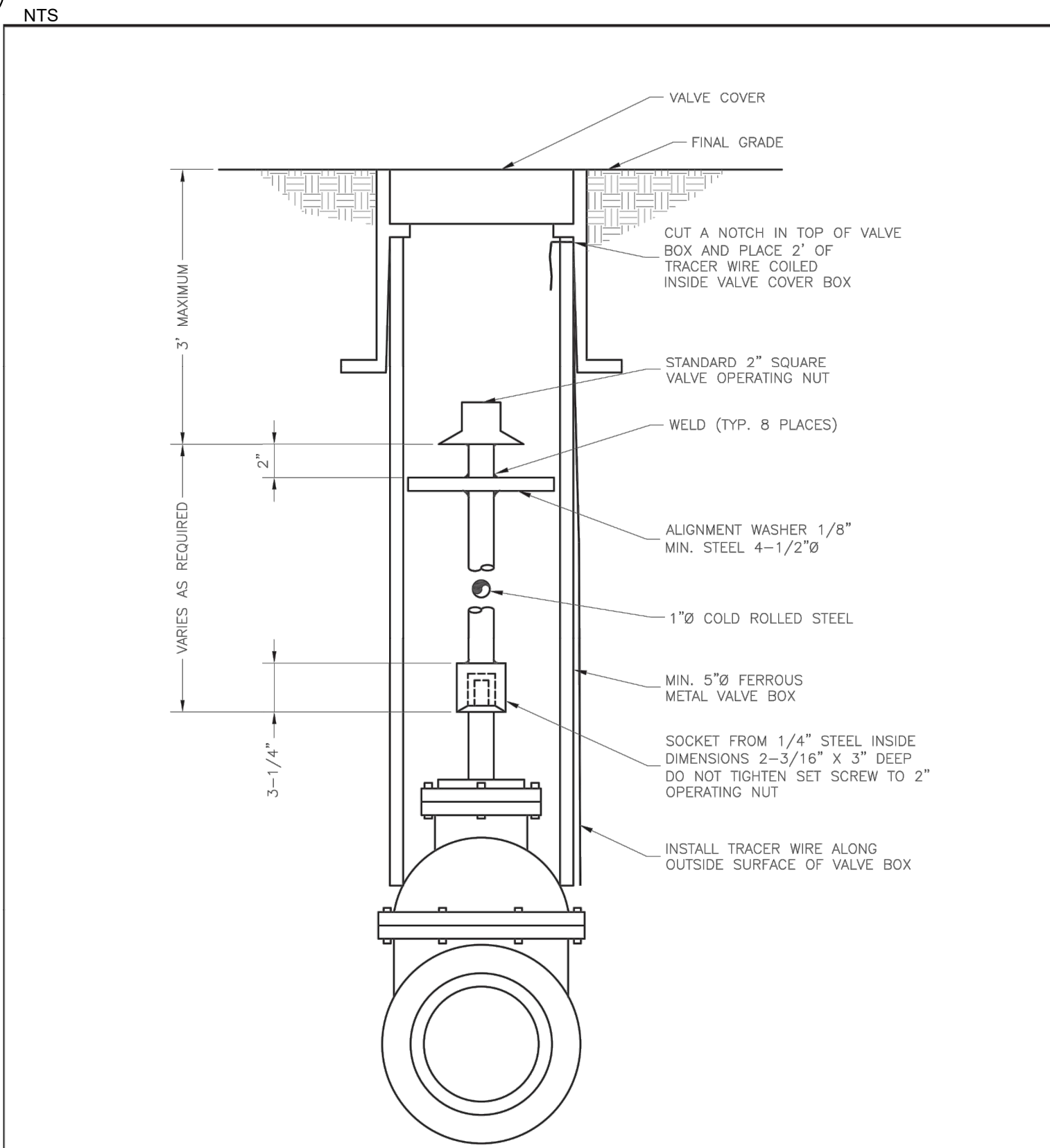


| PIPE SIZE | "D" MIN. |
|-----------|----------|
| 6" | 4" |
| 8" | 7" |
| 12" | 15" |

- NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

| | | |
|-----------------------|---|----------------|
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| STRADDLE BLOCK | | WAT-3 |

3 STRADDLE BLOCK



| | | |
|---|---|----------------|
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| VALVE STEM EXTENSION AND VALVE BOX | | WAT-9 |

6 VALVE STEM EXTENSION & VALVE BOX

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| PROJECT NO: | 18225R21001 |
| DATE: | 01.20.2022 |
| DRAWN BY: | DMH |
| CHKD BY: | ALM |

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**WATER
DETAILS**

C-520

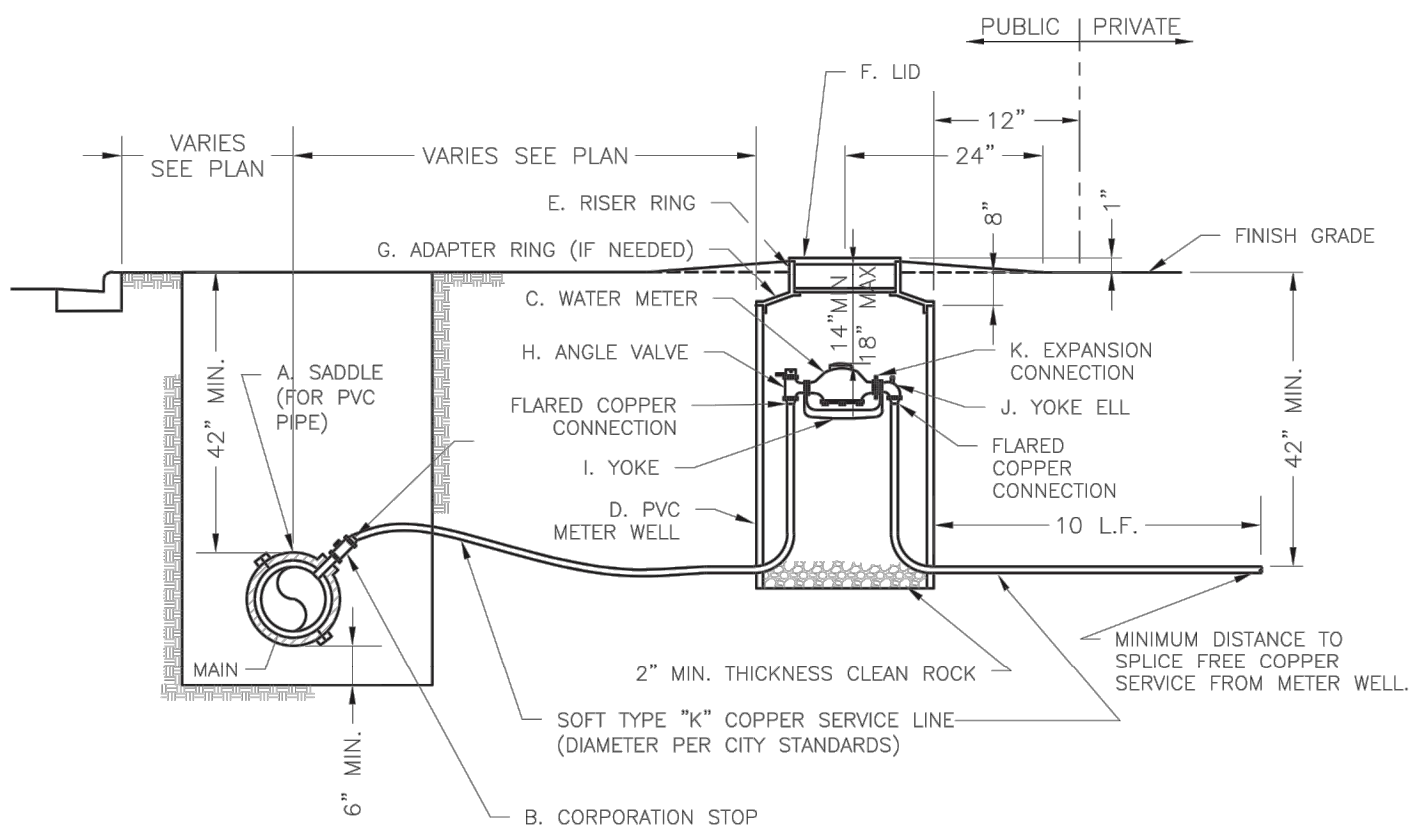
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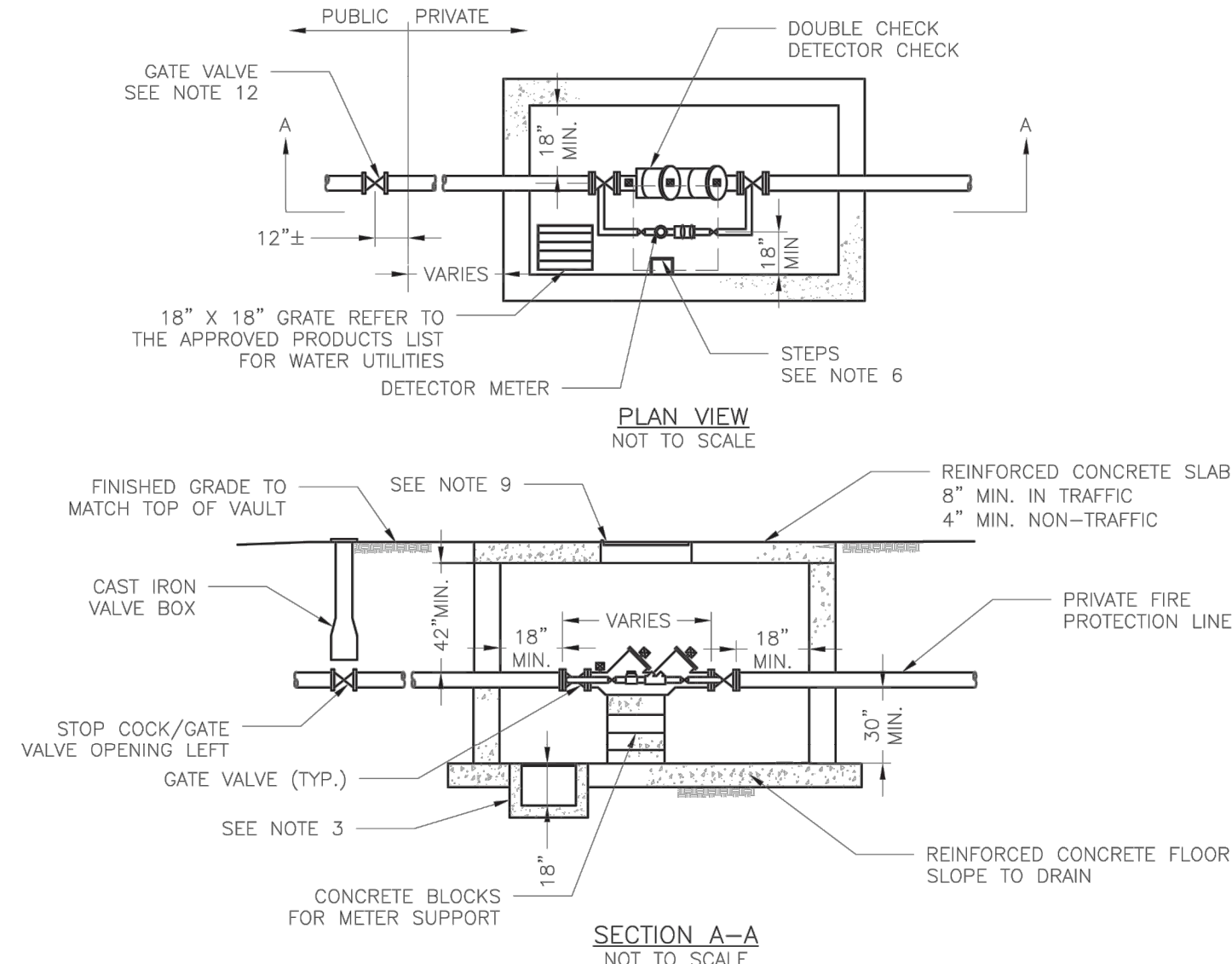
NOTES:

- METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
- IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
- CITY TO FURNISH ITEMS A-K.
- NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
- 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
- EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
- NO SPLICES ALLOWED BETWEEN METER AND MAIN.
- SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
- LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
- CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

| | | |
|--|---|---|
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| | SERVICE CONNECTION WITH METER WELL | WAT-11 |

1 SERVICE CONNECTION WITH METER WELL

NTS



GENERAL NOTES:

- METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
- METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
- METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
- ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
- ALL FITTINGS TO BE BRASS.
- STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
- A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
- ALL VALVES SHALL HAVE RISING STEMS.
- FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.
- A MINIMUM OF 16" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
- METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
- IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

| | | |
|--|---|---|
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| | VAULT FOR DOUBLE CHECK DETECTOR CHECK | WAT-12 |

2 VAULT FOR DOUBLE CHECK DETECTOR CHECK

NTS



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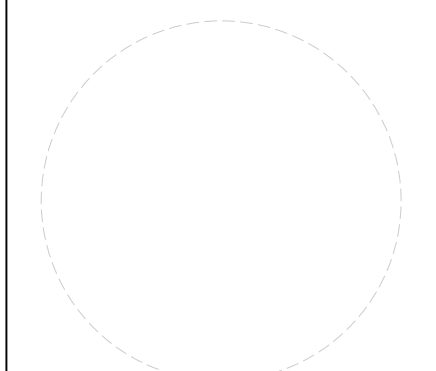
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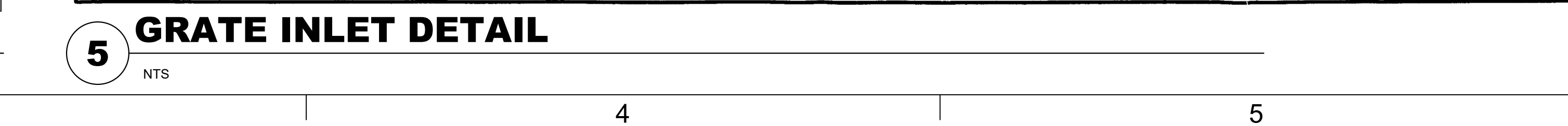
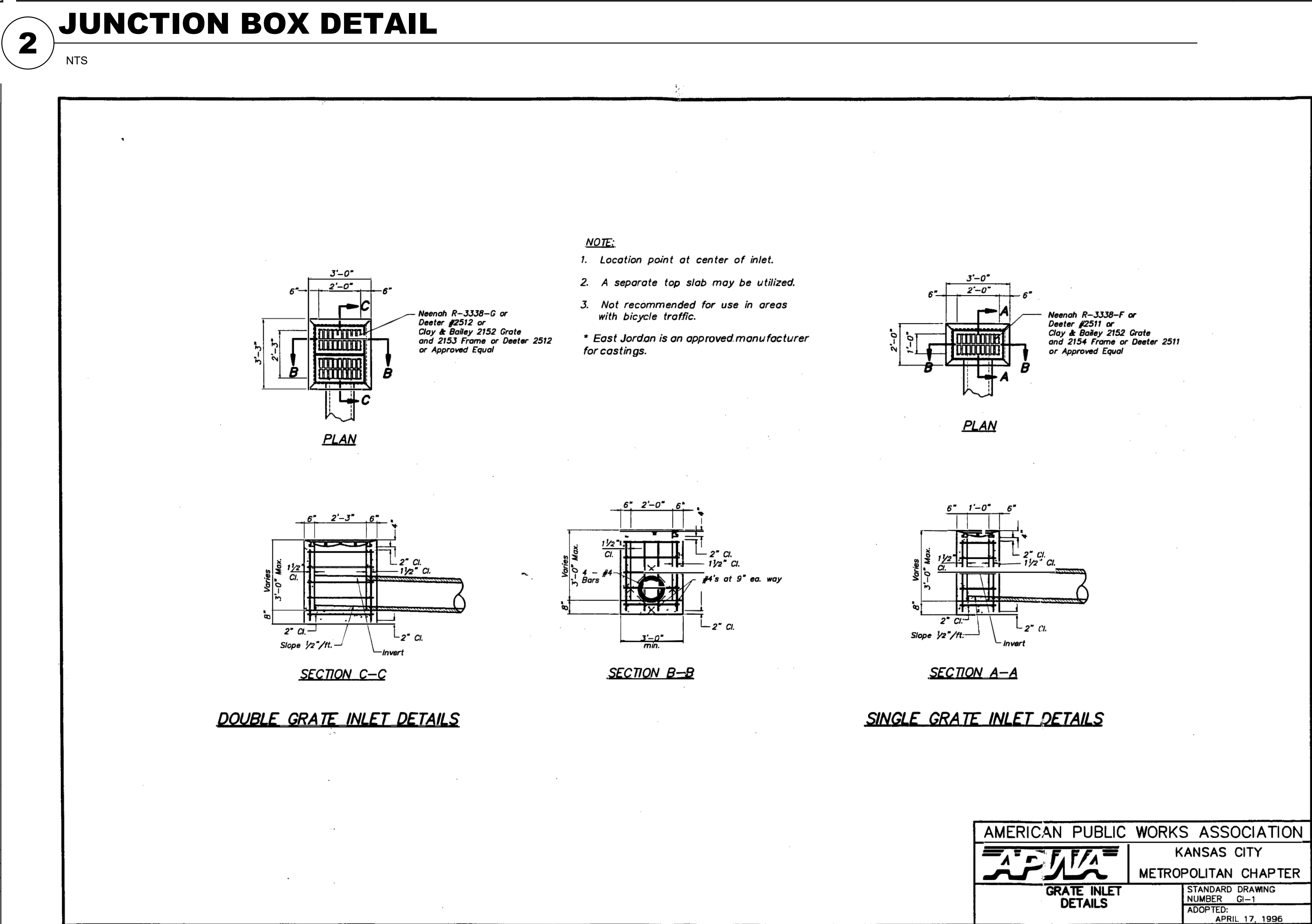
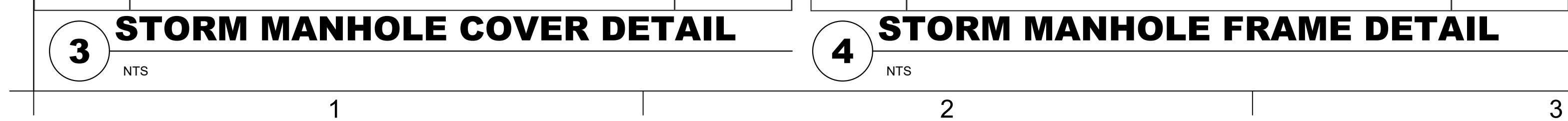
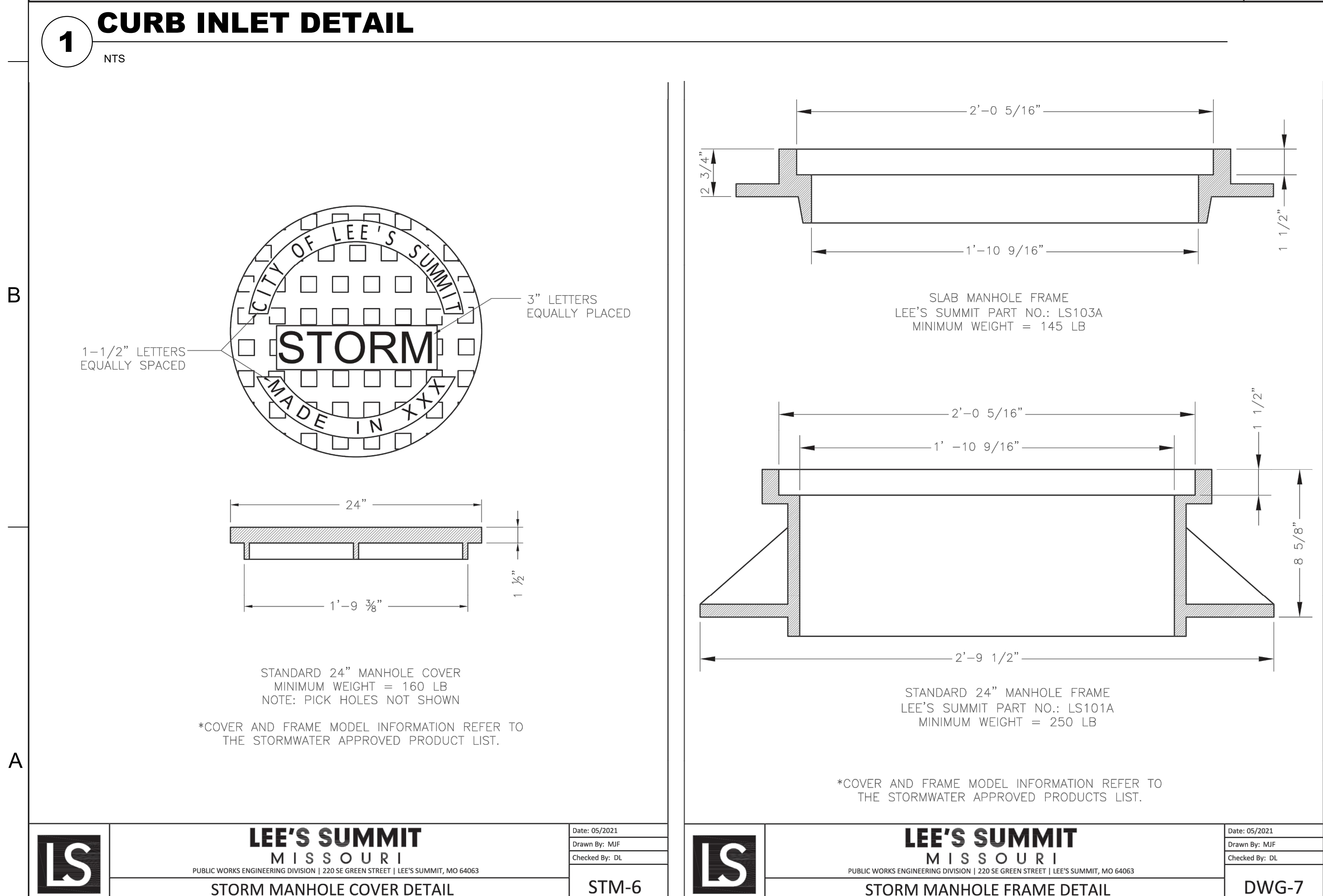
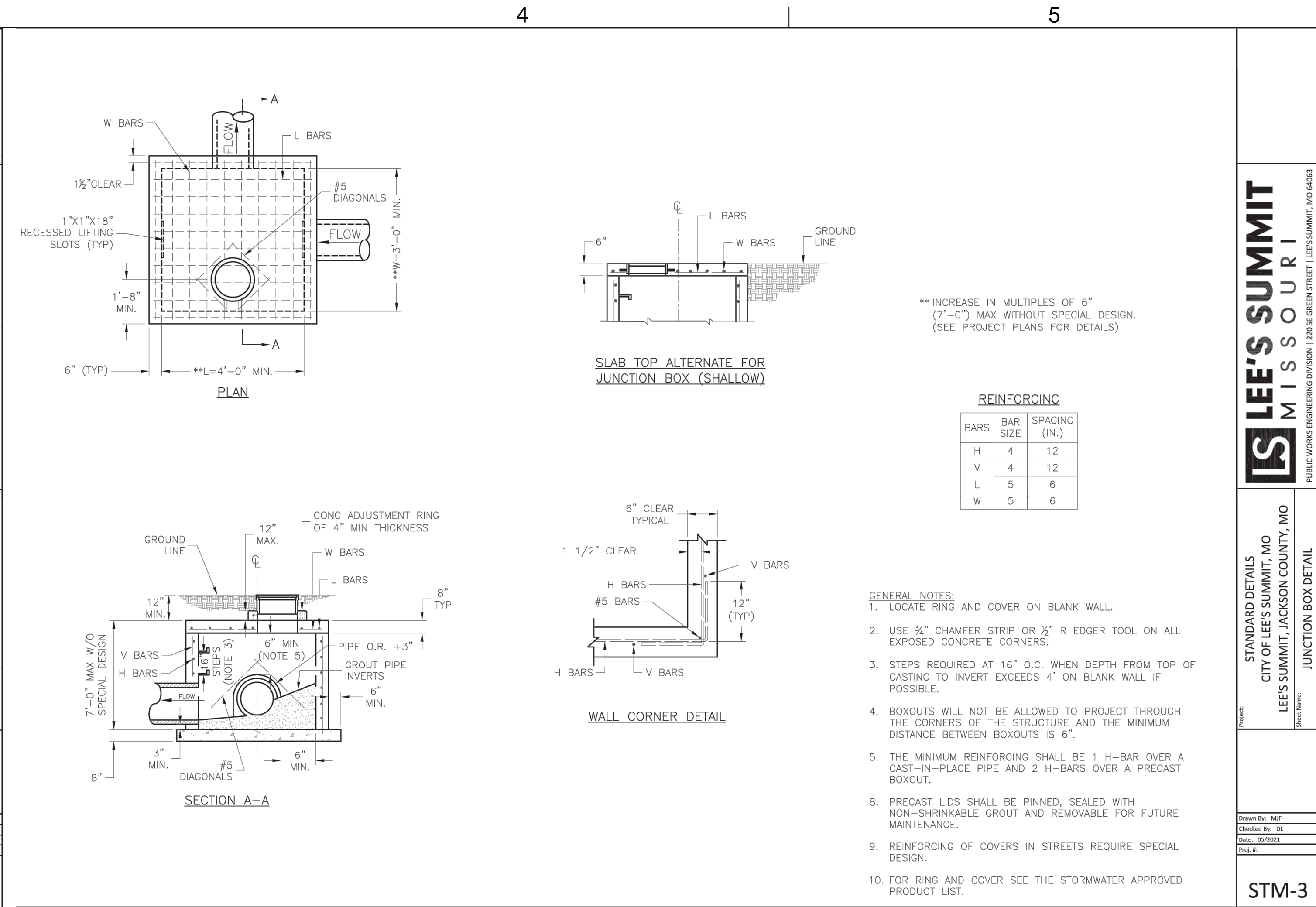
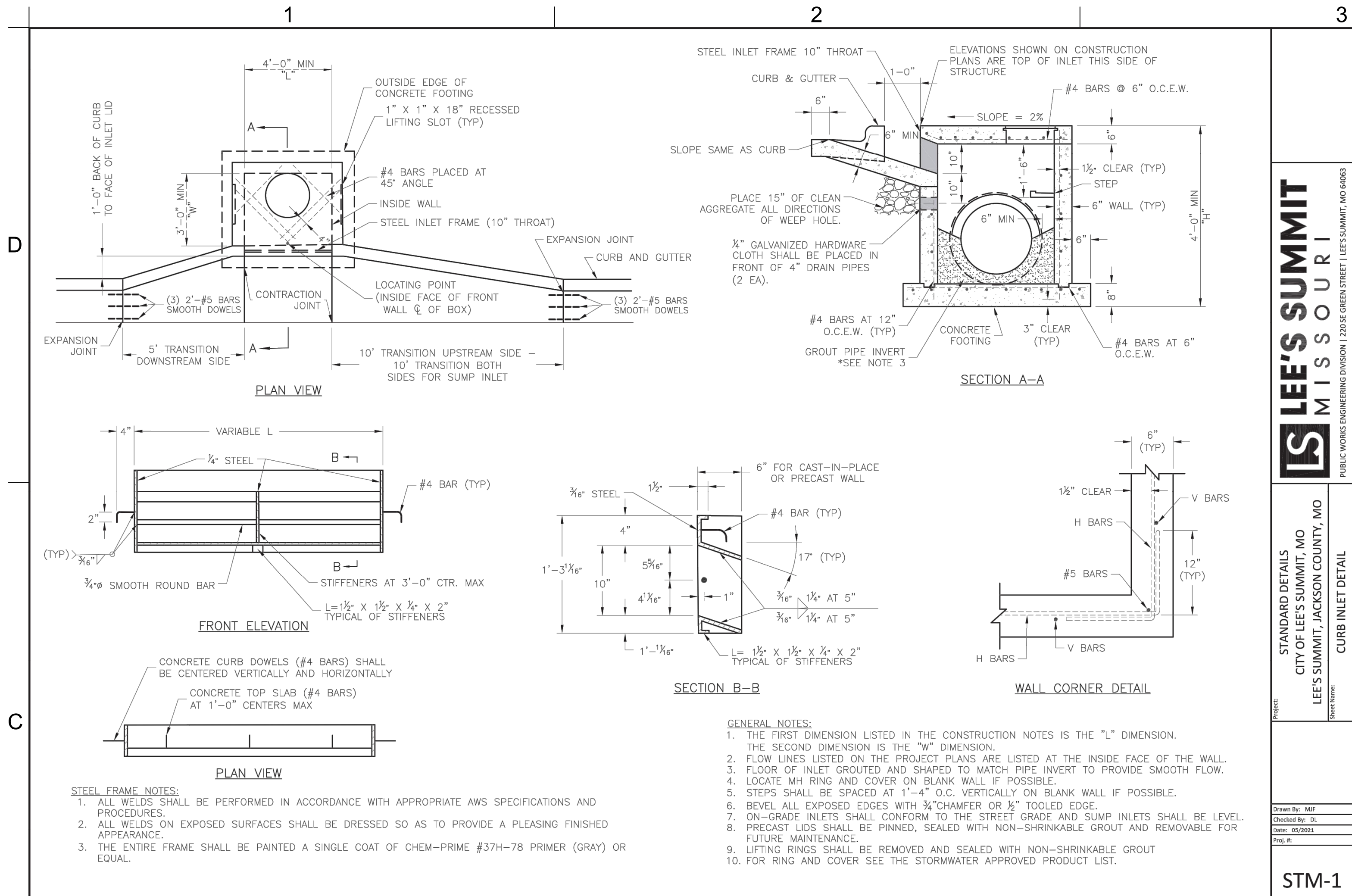
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WATER
DETAILS

C-521

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STORMWATER DETAILS

C-530

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D

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Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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| | REVISED BY DATE 02-21-18 | NMH | PROJECT NO./NAME | |
| | DWG SIZE A | SCALE 1:1 | SHEET 1 OF 1 | TITLE 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS DWG NO. 7001-110-011 REV. J |

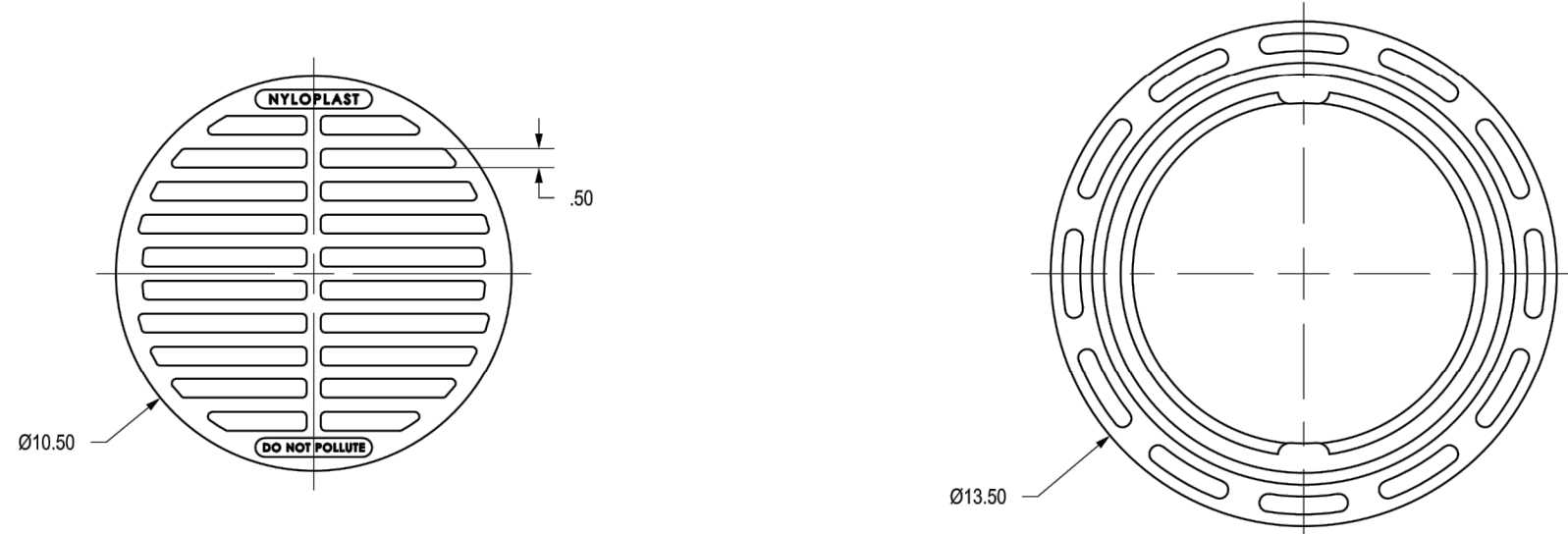
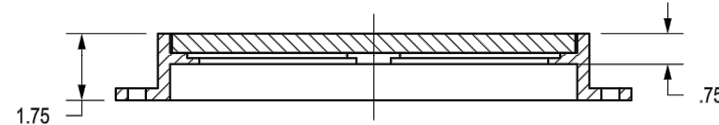
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ENGINEERED SURFACE DRAINAGE PRODUCTS SPECIFICATIONS

NTS

1099CGSF

APPROX. DRAIN AREA = 37.35 SQ IN
APPROX. WEIGHT = 15.40 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE HAS LIGHT DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY
ACT AS STATED IN FEDERAL REGISTER PART II, DEPARTMENT OF
JUSTICE, 28 CFR PART 36.

| | | | | |
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| | APPROVED BY DATE 6-25-18 | NMH | PROJECT NO./NAME | |
| | DWG SIZE A | SCALE 1:5 | SHEET 1 OF 1 | TITLE 10 IN STANDARD GRATE ASSEMBLY - TYPE B DWG NO. 7001-110-540 REV. A |

3

10" STANDARD GRATE ASSEMBLY - TYPE B

NTS

1

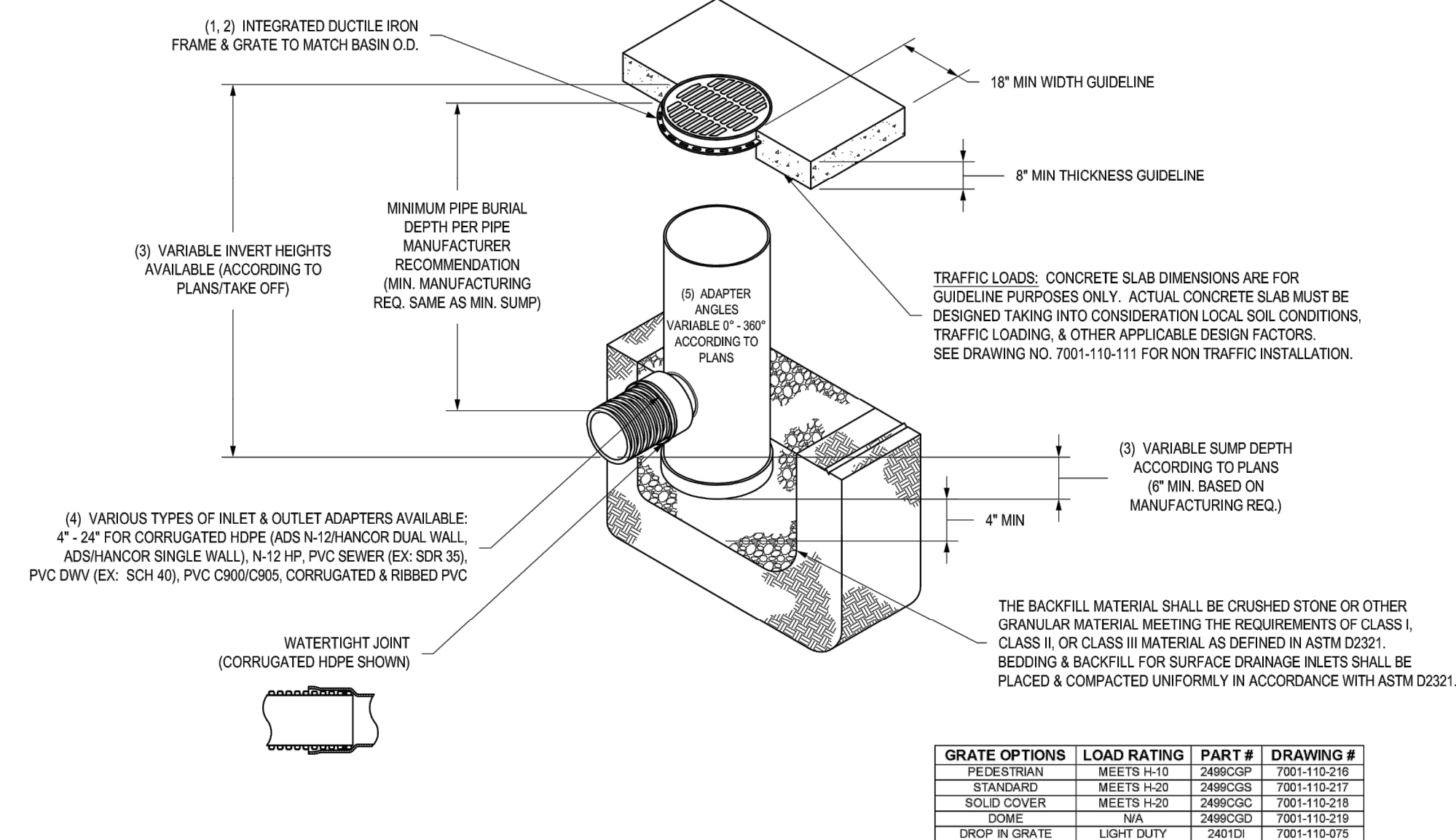
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NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



- 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-095.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2321 FOR CORRUGATED HDPE (ADS N-12) HANCO DUAL WALL, N-12 HP & PVC SEWER.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 30°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-015.

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| | REVISED BY DATE 03-14-16 | NMH | PROJECT NO./NAME | |
| | DWG SIZE A | SCALE 1:40 | SHEET 1 OF 1 | TITLE 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL. DWG NO. 7001-110-192 REV. E |

| GRATE OPTIONS | LOAD RATING | PART # | DRAWING # |
|---------------|-------------|---------|--------------|
| PEDESTRIAN | MEETS H-10 | 2486CSP | 7001-110-218 |
| STANDARD | MEETS H-20 | 2486CSD | 7001-110-217 |
| SOLID COVER | MEETS H-20 | 2486CSC | 7001-110-219 |
| DOME | NA | 2486CSD | 7001-110-219 |
| DRCP IN GRATE | LIGHT DUTY | 2481DI | 7001-110-075 |

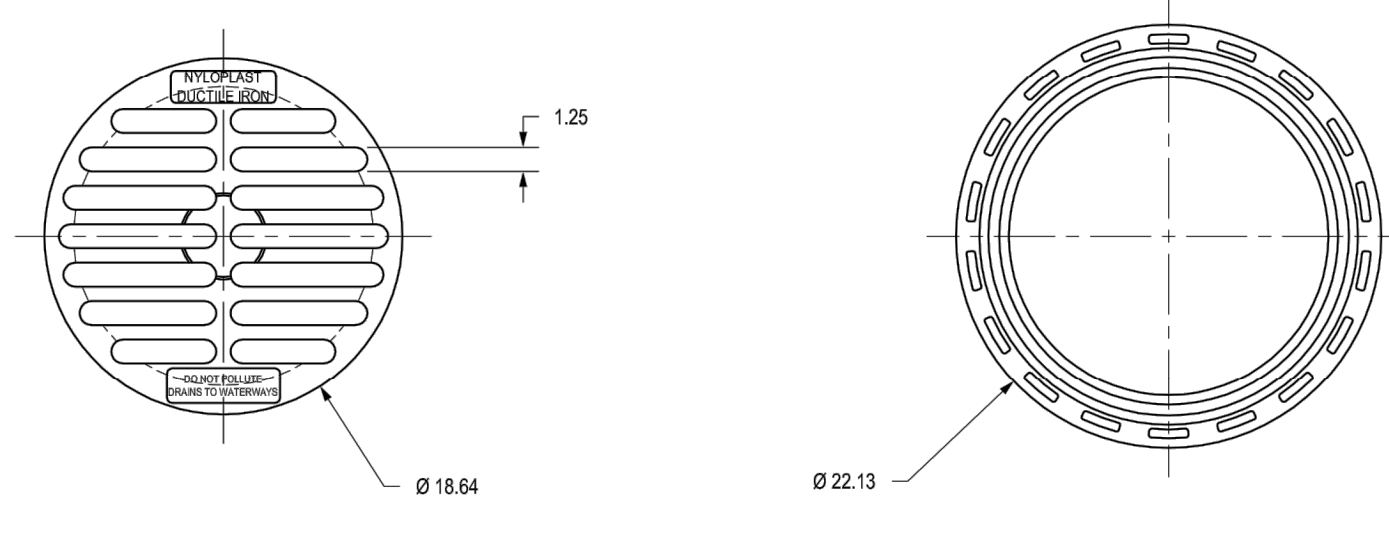
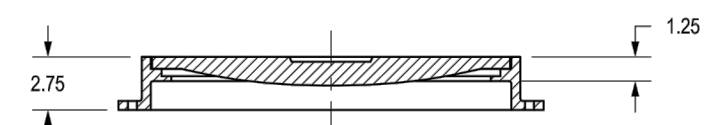
2

24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

NTS

1899CGS

APPROX. DRAIN AREA = 116.72 SQ IN
APPROX. WEIGHT WITH FRAME = 68.50 LBS



DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOOKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-029

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| | REVISED BY DATE 3-13-10 | EBG | PROJECT NO./NAME | |
| | DWG SIZE A | SCALE 1:10 | SHEET 1 OF 1 | TITLE 18 IN STANDARD GRATE ASSEMBLY - TYPE C DWG NO. 7001-110-213 REV. C |

4

18" STANDARD GRATE ASSEMBLY-TYPE C

NTS

4

5

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DATE: 01.20.2022

DRAWN BY: DMH

CHKD BY: ALM

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**STORMWATER
DETAILS**

C-531

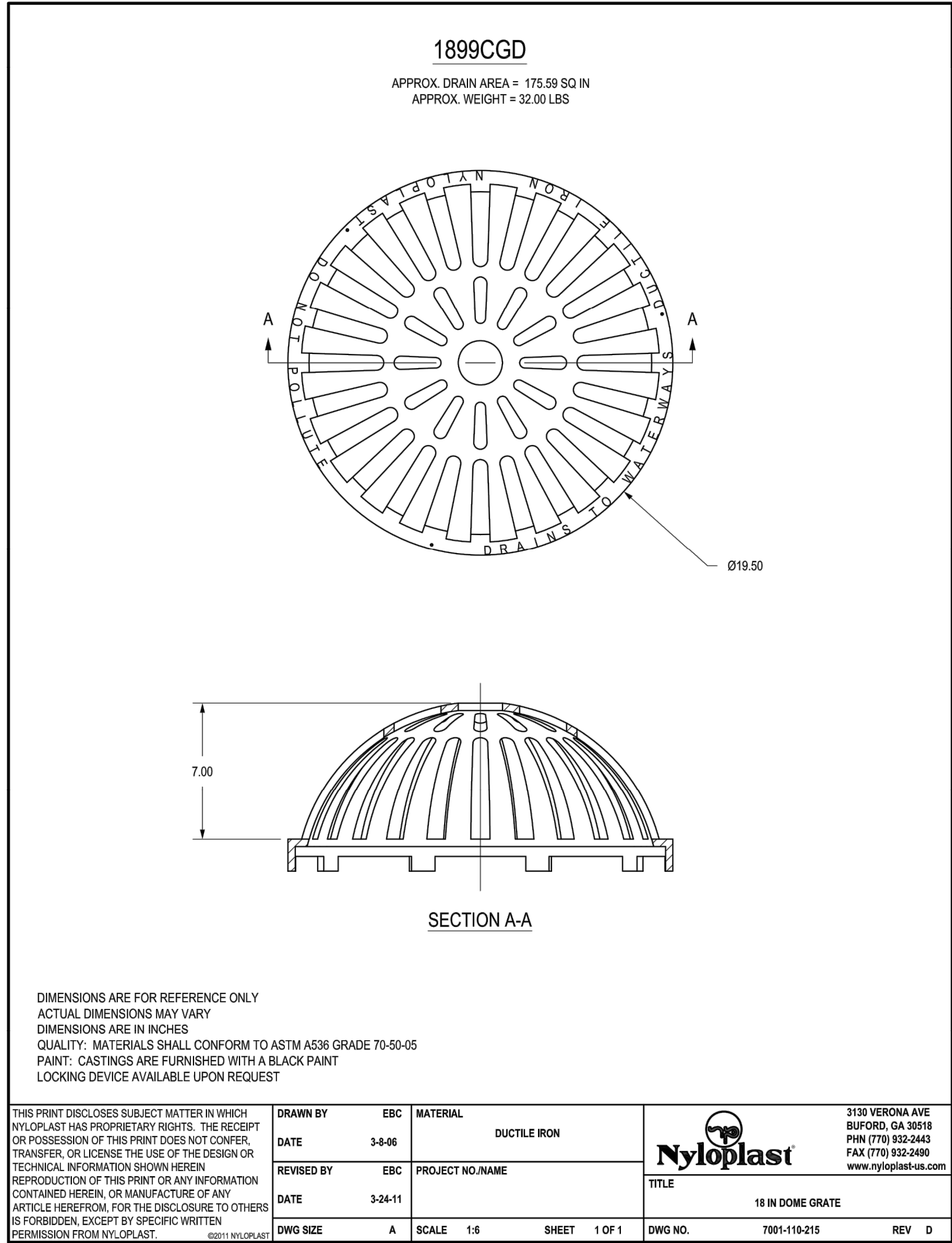
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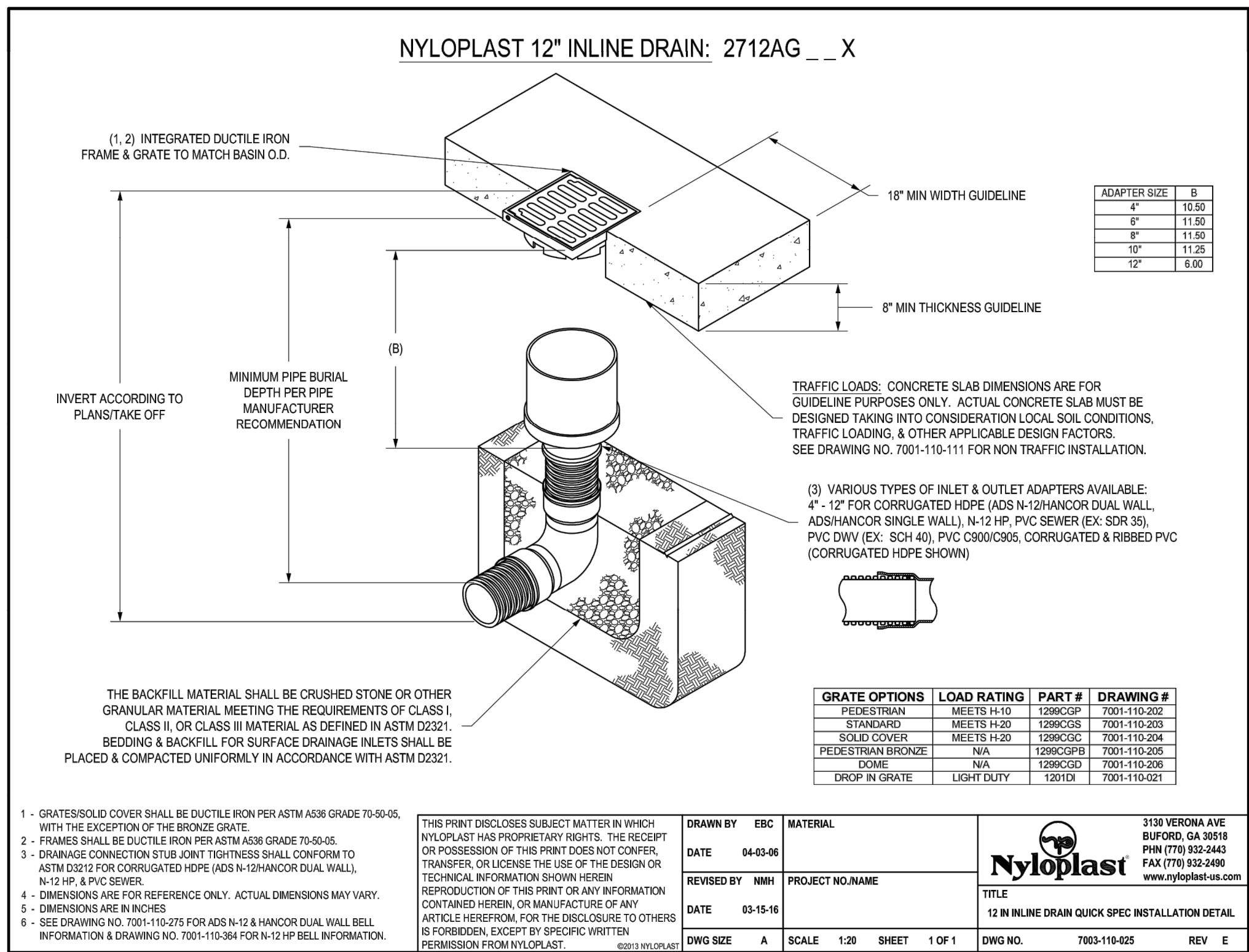
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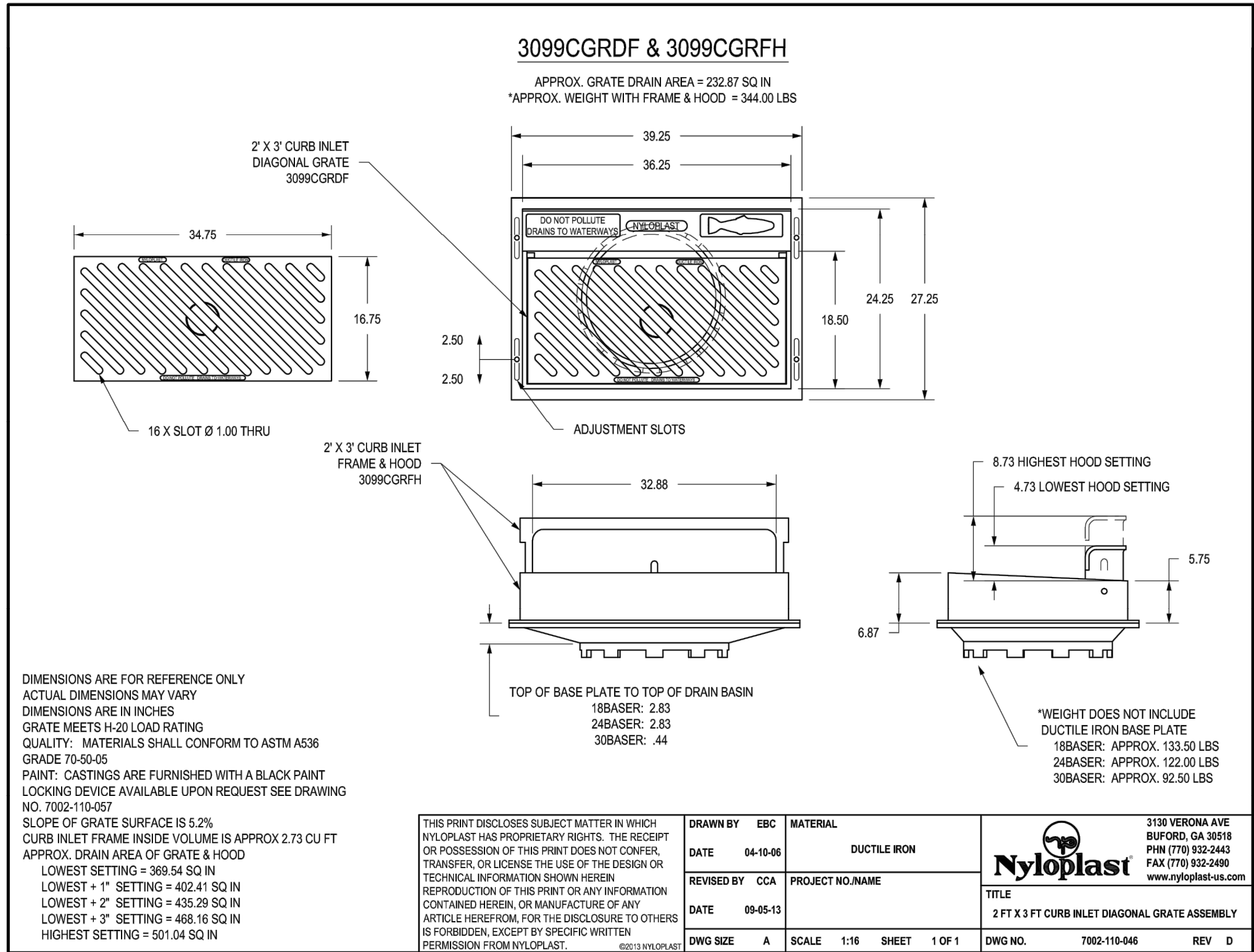
1 18" DOME GRATE

NTS



3 12" INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

NTS



2 2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY

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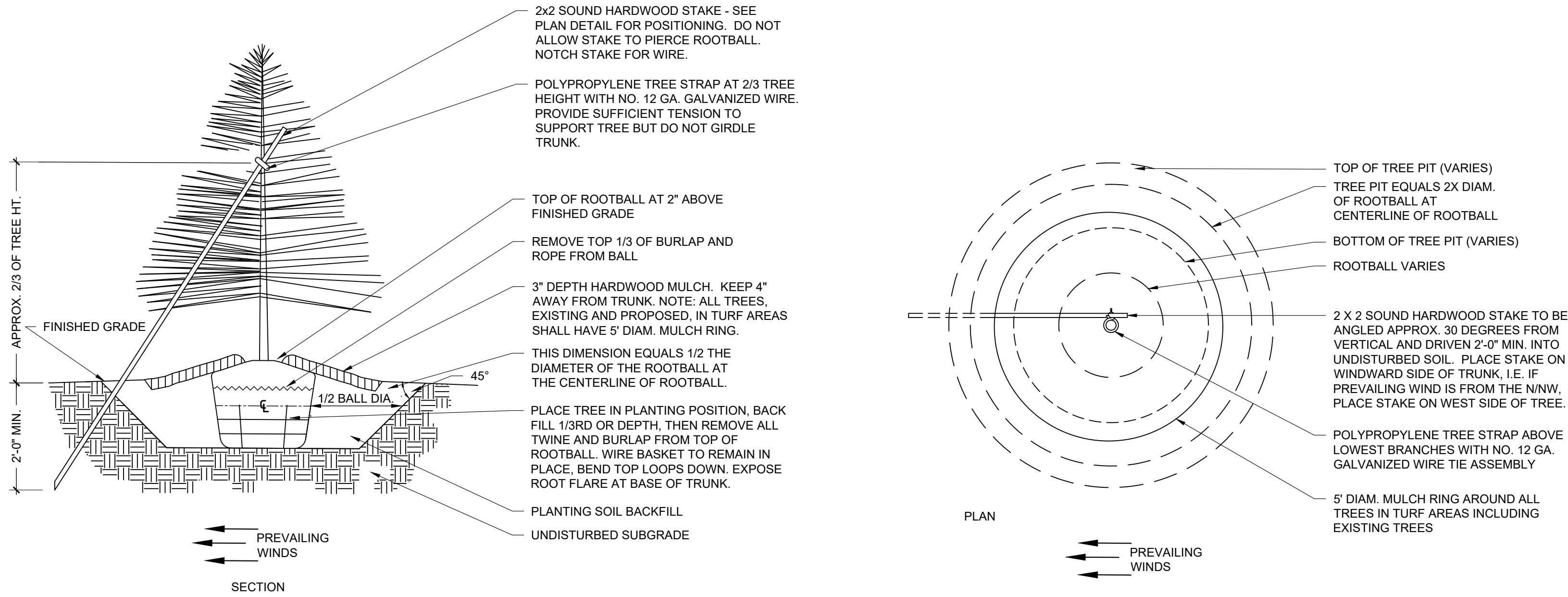
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STORMWATER DETAILS

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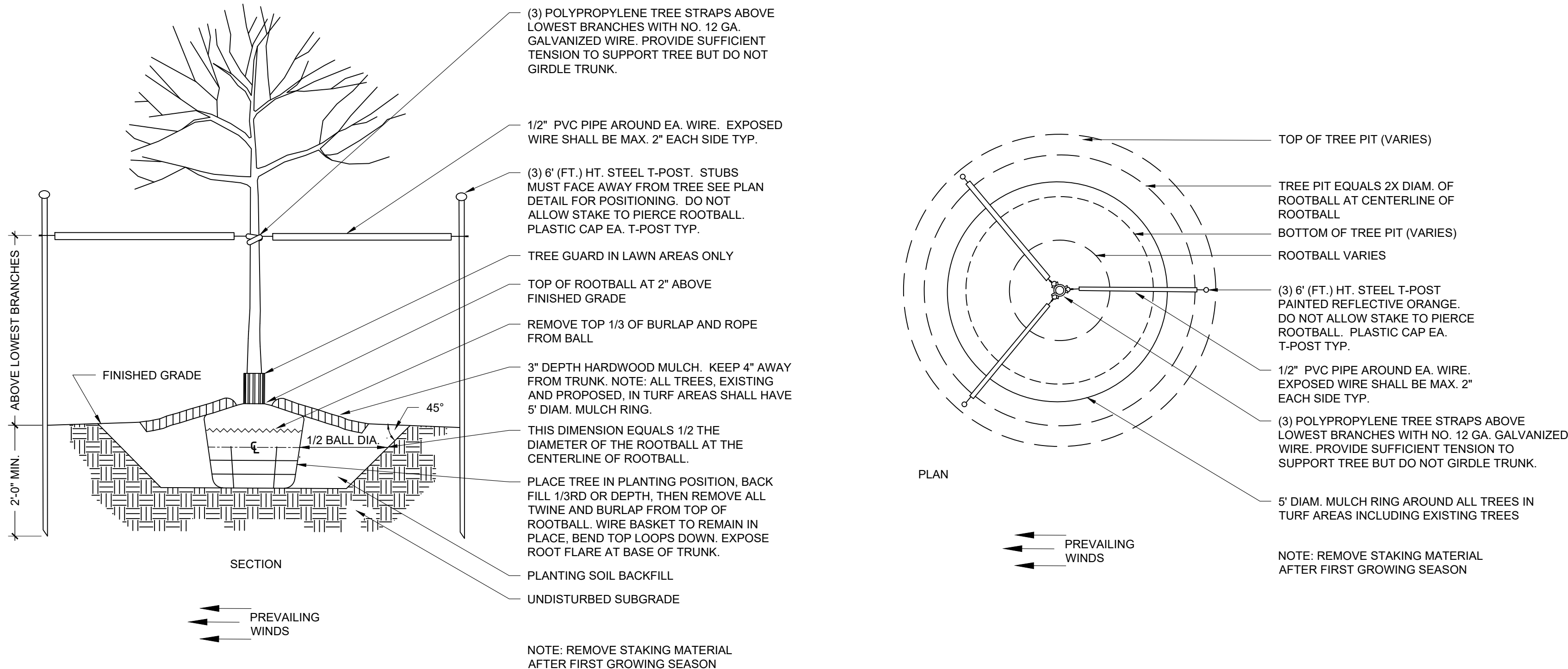


1

EVERGREEN TREE PLANTING

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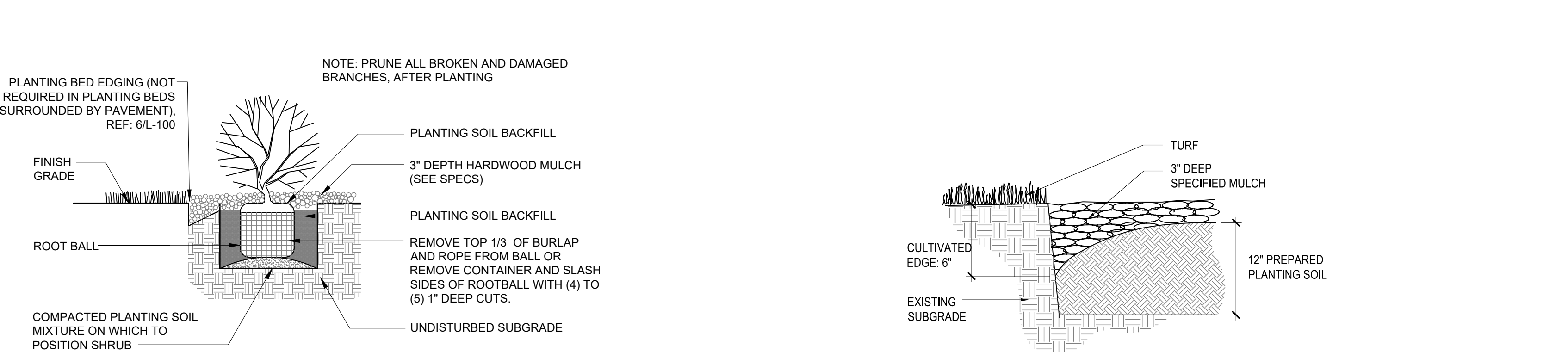


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DECIDUOUS TREE PLANTING

N.T.S.

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SHRUB PLANTING

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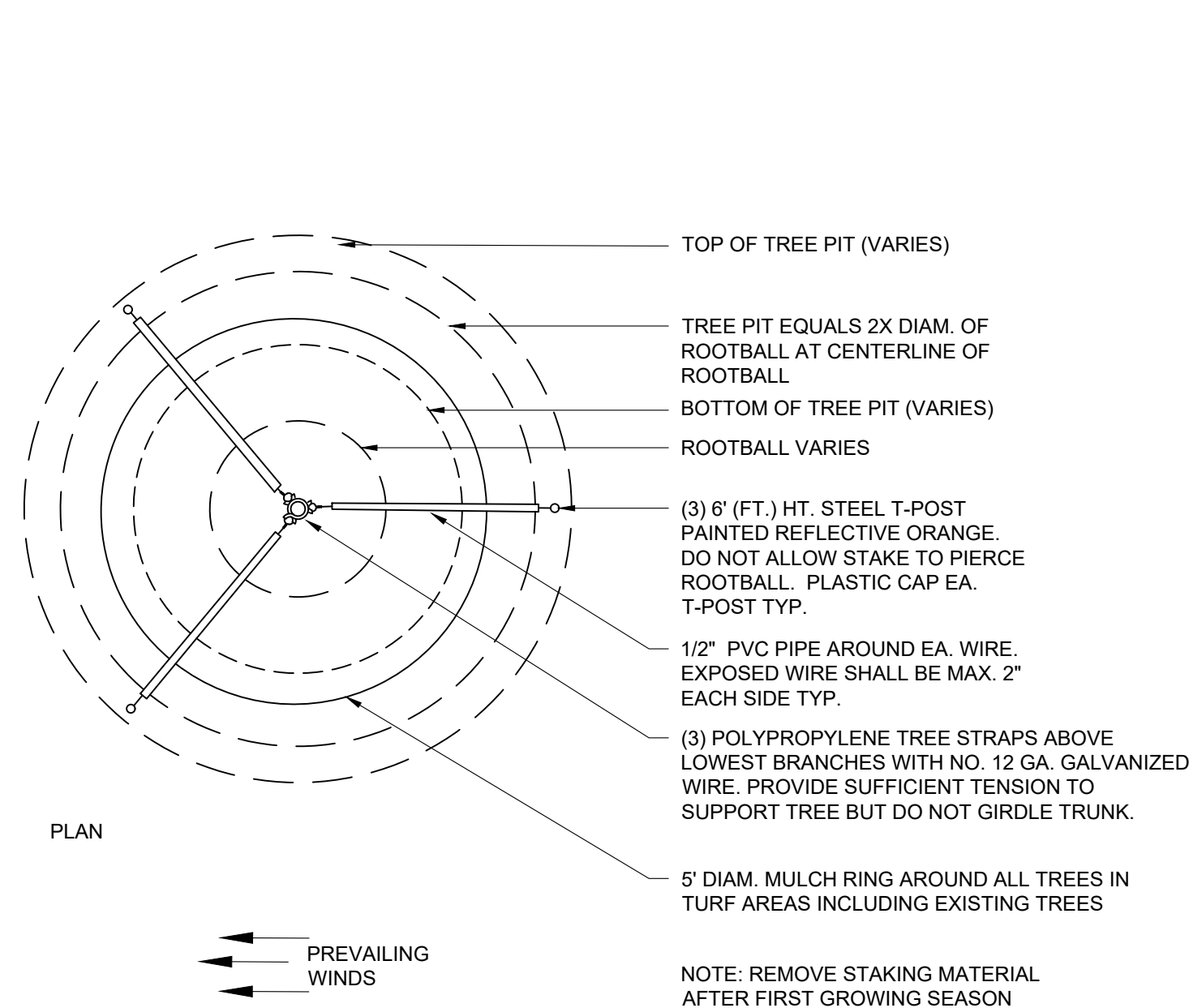
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EVERGREEN TREE STAKING

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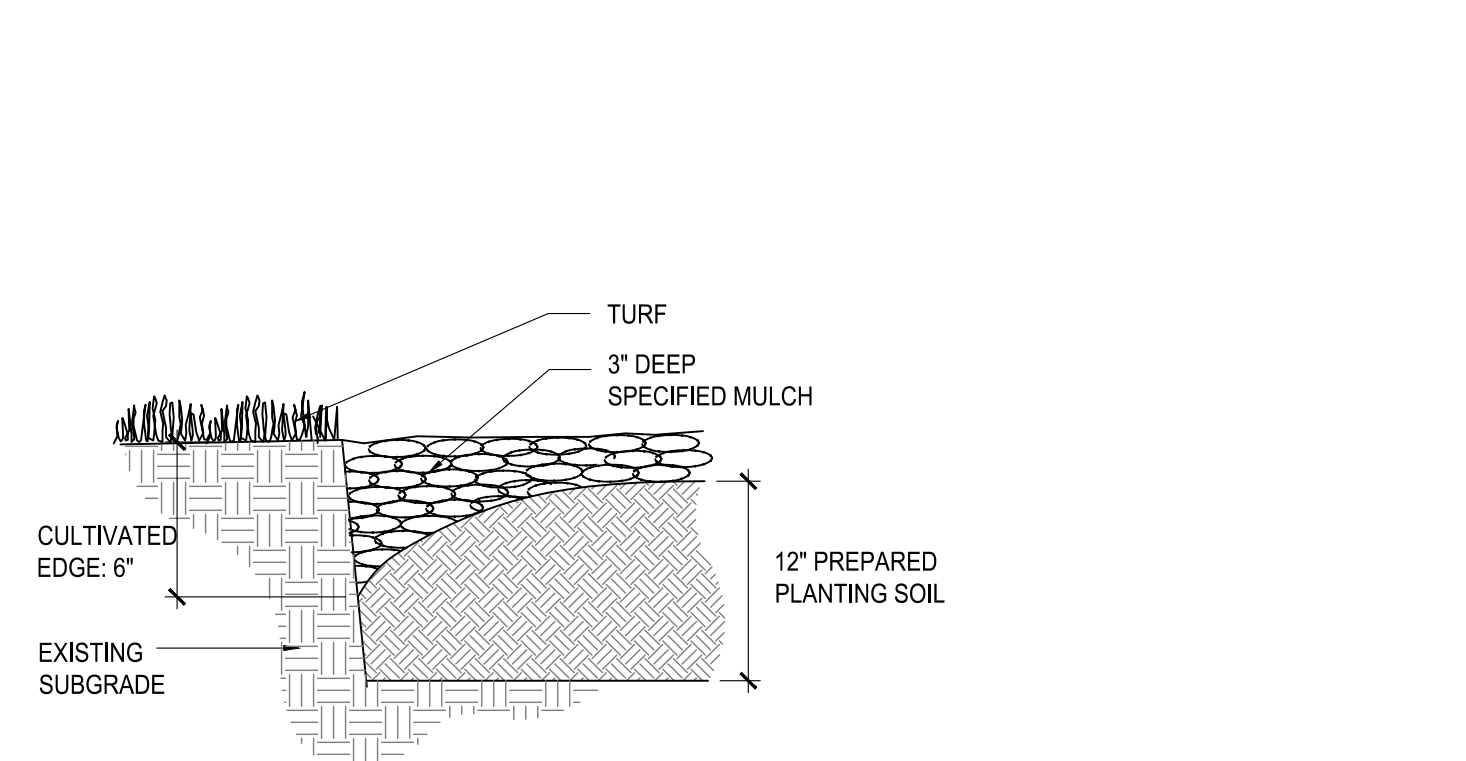


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DECIDUOUS TREE STAKING

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6

CULTIVATED EDGE








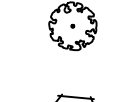
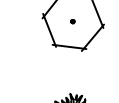

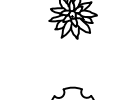
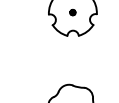
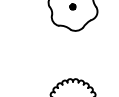

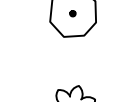
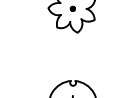
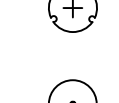

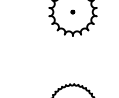
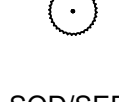
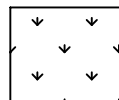
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3

GENERAL LANDSCAPE SITE NOTES

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO ALL THOSE COMPANIES/UTILITIES THAT HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
 2. CONTRACTOR SHALL VERIFY ALL PLANT COUNTS, QUANTITIES AND AREAS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING OR INSTALLING MATERIALS SPECIFIED.
 3. SEE PLANT SCHEDULE FOR PLANT LEGEND AND QUANTITIES.
 4. SYMBOLS INDICATED ON THE PLAN TAKE PRIORITY OVER WRITTEN QUANTITIES AND LABELS.
 5. PLANTS CALLED OUT IN PLAN ARE CONSIDERED IN CLUSTERS EVEN IF NOT ATTACHED BY CONNECTING LINES. CALLOUTS HAVE TOTAL COUNTS NEEDED.
 6. CONTRACTOR SHALL MAINTAIN THE LANDSCAPE UNTIL SUBSTANTIAL COMPLETION. MAINTENANCE WORK SHALL CONSIST OF APPLYING WATER, WEEDING, AND FERTILIZING.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL DURING THE MAINTENANCE PERIOD.
 8. CONTRACTOR TO VERIFY WITH SOIL ANALYSIS, THE SOIL AMENDMENT NEEDED AND CONTACT THE LANDSCAPE ARCHITECT IF THERE ARE ANY INADEQUATE AMENITIES.
 9. PLANT MATERIAL SHALL NOT BE DELIVERED TO THE SITE NOR INSTALLED WHEN TEMPERATURES ARE ABOVE 90°F OR BELOW 40°F AT THE TIME OF PLANTING AND FORECASTED FOR A PERIOD OF 2 WEEKS AFTER INSTALLATION.
 10. CONTRACTOR TO PROVIDE A 1 YEAR WARRANTY ON ALL INSTALLED PLANTINGS FROM POINT OF SUBSTANTIAL COMPLETION.
1. ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE AND INFESTATION, AND TRUE TO TYPE, VARIETY, SIZE SPECIFIED, AND FORM PER THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, CURRENT VERSION), PUBLISHED BY THE AMERICAN NURSERYMEN'S ASSOCIATION.
 2. PLANT MATERIAL SHALL BE PLANTED AND MAINTAINED TO ASNS SPECIFICATIONS.
 3. CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
 4. NO SUBSTITUTIONS FOR VARIETY OR CULTIVAR SHALL BE ACCEPTED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT.
 5. ALL TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY, PAYING ATTENTION TO EVEN SPACING IN THE ROW OR COVERAGE AREA OF THE INDIVIDUAL SPECIES AND HOW IT IS BEING USED.
 6. ALL PLANTING BEDS ABUTTING LAWN AREAS SHALL HAVE STEEL EDGING (COLMET 1014 OR APPROVED EQUAL) INSTALLED AS THE BED EDGE RESTRAINT. NO STEEL EDGING SHALL BE INSTALLED BETWEEN MULCH AND PAVEMENT.
 7. ALL PLANTINGS SHALL BE THOROUGHLY WATERED IN WITH A GARDEN HOSE, TWICE, THE SAME DAY AS INSTALLATION TO ELIMINATE AIR POCKETS IN THE BACKFILL.
 8. NO PLANTINGS SHALL BE PLACED CLOSER THAN 3' FROM THE BACK OF THE CURB TO ALLOW FOR VEHICLE BUMPER OVERHANG.
 9. PROPOSED TREES SHALL NOT BE PLACED OVER EXISTING OR PROPOSED UTILITY SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND UTILITY LOCATIONS AND HAVE THEM MARKED DURING TREE PLANTING OPERATIONS. IF UTILITY IS DAMAGED DURING PLANTING, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR AND OWNER OF UTILITY AND PAYING FOR REPAIR OF THE DAMAGED UTILITY.
 10. ALL PLANTING BEDS WILL HAVE 3-INCHES OF SHREDDED BROWN HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.

PLANT SCHEDULE

| TREES | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | SIZE | |
|---|------|-----------|--|----------------------------------|--------|------|----------|
|  | AA | 2 | Acer rubrum 'Armstrong' | Armstrong Red Maple | B & B | 3" | |
|  | GA | 1 | Ginkgo biloba 'Autumn Gold' TM | Autumn Gold Maidenhair Tree | B & B | 3" | |
|  | MA | 5 | Malus x 'Adirondack' | Adirondack Crabapple | B & B | 3" | |
|  | NW | 7 | Nyssa sylvatica 'Wildfire' | Black Gum | B & B | 3" | |
|  | ZM | 6 | Zelkova serrata 'Musashino' | Musashino Sawleaf Zelkova | B & B | 3" | |
| CONIFERS | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | SIZE | |
|  | PB | 2 | Picea pungens 'Baby Blue' | Baby Blue Colorado Spruce | 8' Ht. | | |
|  | TS | 18 | Thuja occidentalis 'Smaragd' | Emerald Green Arborvitae | 8' Ht. | | |
| SHRUBS | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT. | SIZE | SPACING |
|  | Ca | 17 | Cornus sericea 'Arctic Fire' | Arctic Fire Dogwood | 5 gal | Pot | 48" o.c. |
|  | Ec | 13 | Euonymus alatus 'Compactus' | Compact Burning Bush | 5 gal | Pot | 72" o.c. |
|  | Ho | 44 | Hemerocallis x 'Stella de Oro' | Stella de Oro Daylily | Quart | Pot | 18" o.c. |
|  | Hf | 25 | Hosta x 'First Frost' | First Frost Hosta | 2 gal | Pot | 30" o.c. |
|  | Il | 10 | Itea virginica 'Little Henry' TM | Virginia Sweetspire | 2 gal | Pot | 36" o.c. |
|  | Pl | 6 | Perovskia atriplicifolia 'Little Spire' TM | Little Spire Russian Sage | 2 gal | Pot | 24" o.c. |
|  | Rr | 19 | Rosa x 'Knockout' TM | Rose | 2 gal | Pot | 48" o.c. |
| GRASSES | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT. | SIZE | SPACING |
|  | Ck | 21 | Calamagrostis x acutiflora 'Karl Foerster' | Feather Reed Grass | 3 gal. | Pot | 36" o.c. |
|  | Fe | 28 | Festuca glauca 'Elijah Blue' | Elijah Blue Fescue | 1 gal. | Pot | 18" o.c. |
|  | Sp | 57 | Schizachyrium scoparium 'Prairie Munchkin' | Prairie Munchkin Little Bluestem | 2 gal | Pot | 24" o.c. |
|  | Sh | 133 | Sporobolus heterolepis | Prairie Dropseed | 2 gal | Pot | 30" o.c. |
| EVERGREEN | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT. | SIZE | SPACING |
|  | Jl | 11 | Juniperus chinensis 'Gold Lace' | Gold Lace Juniper | 5 gal | Pot | 60" o.c. |
|  | Ja | 8 | Juniperus horizontalis 'Andorra' | Andorra Juniper | 2 gal | Pot | 48" o.c. |
| SOD/SEED | CODE | QTY | BOTANICAL NAME | COMMON NAME | | TYPE | |
|  | Fa | 13,571 sf | Festuca arundinacea 90% Fescue, 10% Bluegrass Mix | Tall Fescue | | sod | |

7

LANDSCAPE SCHEDULE

4

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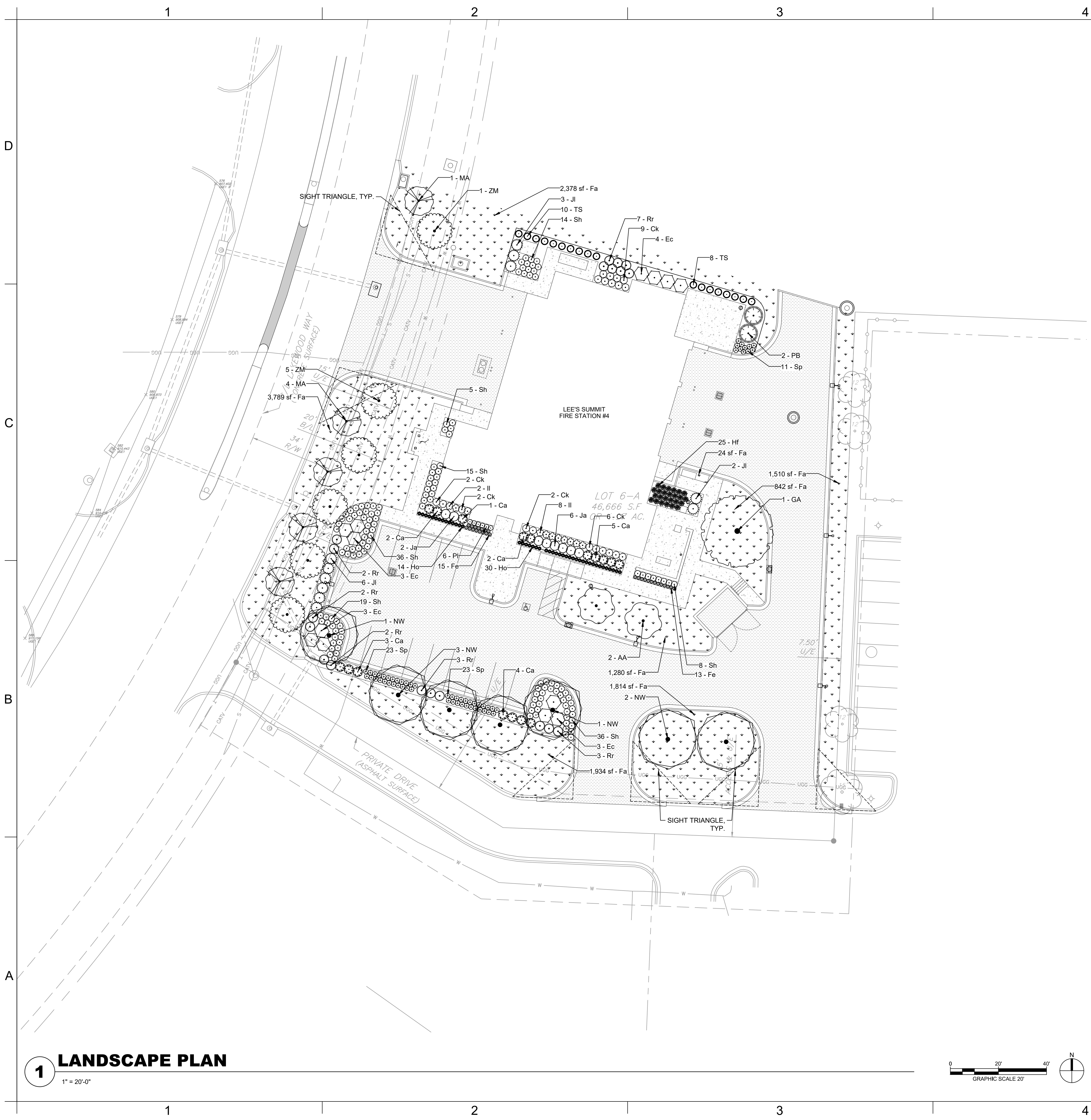
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CHKD BY: CDW

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LANDSCAPE SCHEDULE

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LANDSCAPE NOTES

- 1. ALL SHRUBS ADJACENT TO A SIDEWALK OR EDGE SHALL BE PLANTED 1/2 THE SPACING SPECIFIED IN THE PLANT SCHEDULE.
- 2. SEE SHEET L100 FOR PLANT SCHEDULE AND QUANTITIES.
- 3. FINAL PLANT LOCATIONS TO BE VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 4. ALL PLANTING BED EDGES SHALL BE A CULTIVATED EDGE. SEE DETAIL 7 ON SHEET L100.
- 5. ALL LANDSCAPE AREAS (EXCLUDING SOD) ARE TO BE MULCHED WITH A 3" DEEP LAYER OF BROWN HARDWOOD MULCH AT THE CONCLUSION OF THE PLANTING OPERATIONS. MULCH SHALL BE DOUBLE GROUND, HARDWOOD, 1" DIAMETER IN SIZE OR SMALLER.

LANDSCAPE LEGEND

| TREES | CODE | BOTANICAL NAME | COMMON NAME |
|-----------|------|--|----------------------------------|
| | AA | Acer rubrum 'Armstrong' | Armstrong Red Maple |
| | GA | Ginkgo biloba 'Autumn Gold' TM | Autumn Gold Maidenhair Tree |
| | MA | Malus x 'Adirondack' | Adirondack Crabapple |
| | NW | Nyssa sylvatica 'Wildfire' | Black Gum |
| | ZM | Zelkova serrata 'Musashino' | Musashino Sawleaf Zelkova |
| CONIFERS | CODE | BOTANICAL NAME | COMMON NAME |
| | PB | Picea pungens 'Baby Blue' | Baby Blue Colorado Spruce |
| | TS | Thuja occidentalis 'Smaragd' | Emerald Green Arborvitae |
| SHRUBS | CODE | BOTANICAL NAME | COMMON NAME |
| | Ca | Cornus sericea 'Artic Fire' | Artic Fire Dogwood |
| | Ec | Euonymus alatus 'Compactus' | Compact Burning Bush |
| | Ho | Hemerocallis x 'Stella de Oro' | Stella de Oro Daylily |
| | Hf | Hosta x 'First Frost' | First Frost Hosta |
| | Il | Itea virginica 'Little Henry' TM | Virginia Sweetspire |
| | Pl | Perovskia atriplicifolia 'Little Spire' TM | Little Spire Russian Sage |
| | Rr | Rosa x 'Knockout' TM | Rose |
| GRASSES | CODE | BOTANICAL NAME | COMMON NAME |
| | Ck | Calamagrostis x acutiflora 'Karl Foerster' | Feather Reed Grass |
| | Fe | Festuca glauca 'Elijah Blue' | Elijah Blue Fescue |
| | Sp | Schizachyrium scoparium 'Prairie Munchkin' | Prairie Munchkin Little Bluestem |
| | Sh | Sporobolus heterolepis | Prairie Dropseed |
| EVERGREEN | CODE | BOTANICAL NAME | COMMON NAME |
| | Jl | Juniperus chinensis 'Gold Lace' | Gold Lace Juniper |
| | Ja | Juniperus horizontalis 'Andorra' | Andorra Juniper |
| SOD/SEED | CODE | BOTANICAL NAME | COMMON NAME |
| | Fa | Festuca arundinacea 90% Fescue, 10% Bluegrass Mix | Tall Fescue |

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