

CITY OF ALBUQUERQUE



November 14, 2014

Mr. Jeffrey Mortensen
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87109

**Re: Reginald Chavez Elementary Portables
Grading and Drainage Plan
Engineer's Stamp Date 11-5-14 (J12D009)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received November 6, 2014, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required. Note the following:

PO Box 1293

1. On Sheet C-103, the end section, gravel infiltration, and chain link fence are described as being done by separate permit. These items will need to be completed with the earlier phase approved plans dated 8-4-14 or with this set of plans.

Albuquerque

If you have any questions, you can contact me at 924-3994.

New Mexico 87103

Sincerely,

www.cabq.gov

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department

C: e-mail

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE. THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

EROSION CONTROL MEASURES:

- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.

PHASING

THIS PROJECT WILL BE CONSTRUCTED IN PHASES AS FOLLOWS:

PHASE 1: REMOVE AND RELOCATE EXISTING PORTABLE CLASSROOM BUILDINGS INCLUDING THE DEMOLITION OF THE EXISTING IMPROVEMENTS WITHIN THE FOOTPRINT OF THE PROPOSED PERMANENT BUILDING. THE APS PORTABLE CLASSROOM BUILDINGS WILL TEMPORARILY BE LOCATED TO THE IMMEDIATE WEST OF THE NEW BUILDING IN THE PROXIMITY OF THE EXISTING BASKETBALL COURTS. THIS WORK BY SEPARATE SUBMITTAL AND PERMIT (N.I.C.)

PHASE 2A: CONSTRUCT NEW PERMANENT CLASSROOM BUILDING.

PHASE 2B: DEMOLISH EXISTING BUILDINGS 300 AND 400 AND CONSTRUCT NEW COURTYARD IMPROVEMENTS BY SEPARATE PERMIT (N.I.C.)

PHASE 2C: REMOVE EXISTING APS PORTABLE CLASSROOM BUILDINGS FROM SITE (N.I.C.)

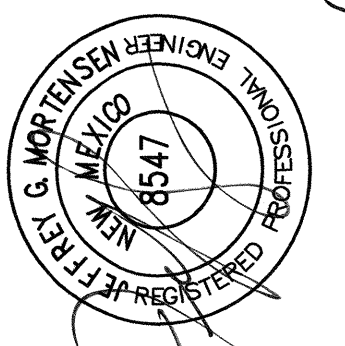
PHASE 2D: CONSTRUCT NEW PLAYGROUND IMPROVEMENTS FOR YDI AND KINDERGARTEN.

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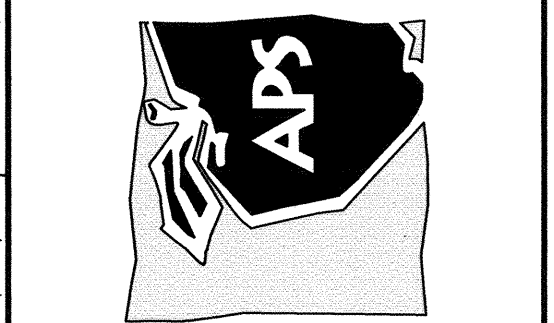
INV
 TA
 TC
 TG
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 14.00
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 -20
 PROPOSED CONTOUR
 PROPOSED DIRECTION OF FLOW
 PROPERTY LINE
 EXISTING DRAINAGE BASIN BOUNDARY
 PROPOSED DRAINAGE BASIN BOUNDARY
 HIGH POINT / DVIDE
 PROPOSED CONCRETE
 PROPOSED ASPHALT PAVING
 PROPOSED SYNTHETIC TURF
 GRAVEL BASE COURSE


CHERRY/SEE/REAMES ARCHITECTS, PC
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 PHONE: 505.345.4250 FAX: 505.345.4254
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 REGINALD CHAVEZ
 ELEMENTARY SCHOOL
 2700 Mountain Road NW
 Albuquerque, NM 87104

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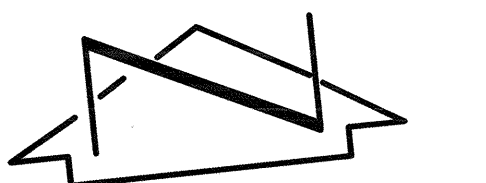


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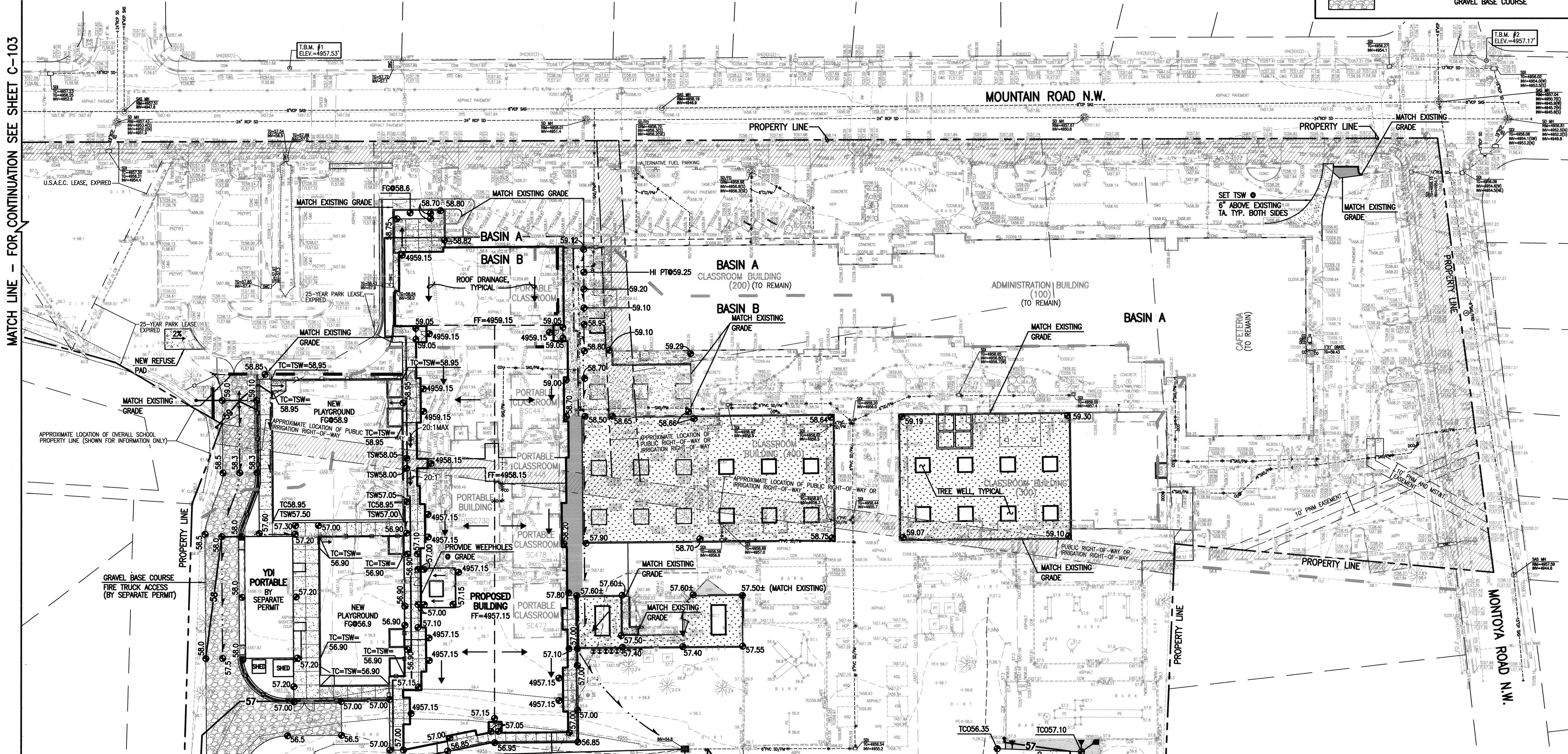
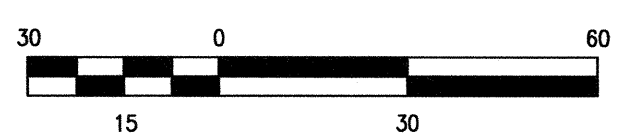
GRADING PLAN NORTH

C-102

2013.061.1



SCALE: 1" = 30'



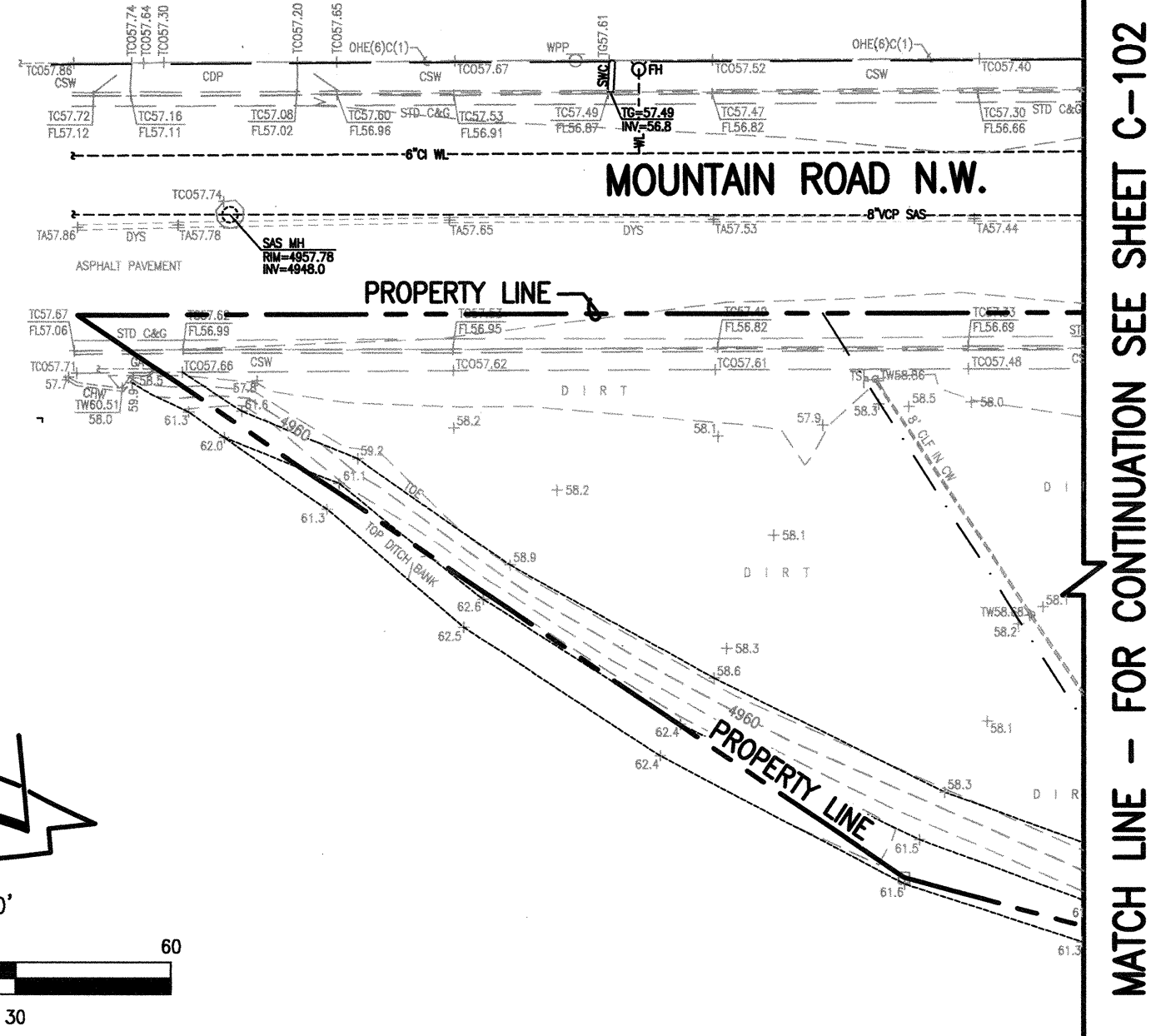
MATCH LINE - FOR CONTINUATION SEE SHEET C-103

MATCH LINE - FOR CONTINUATION SEE SHEET C-103

SURVEY NOTE:
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CONSTRUCT SINGLE 'D'
 STORM INLET
 INV @ 56.00
 INV IN @ 54.8
 INV OUT @ 54.70

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 File Name: 130611_C-102.DWG Plot Time: 07:13 am



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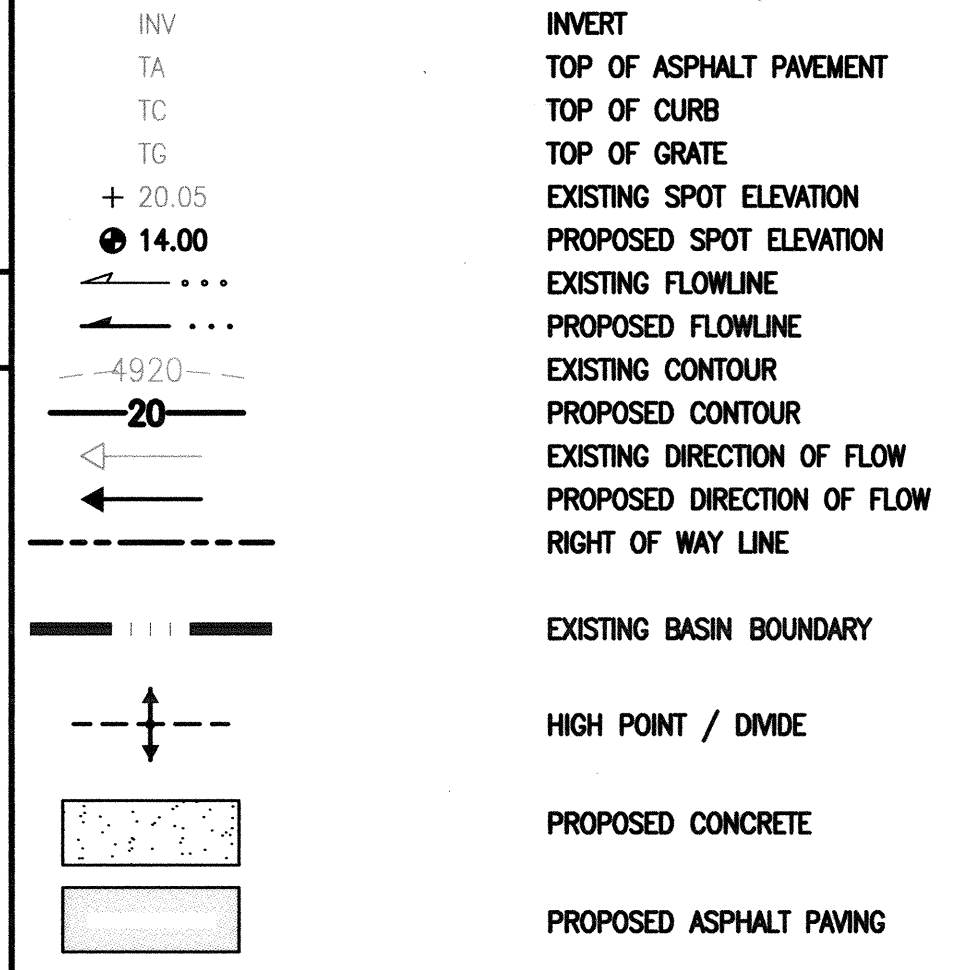
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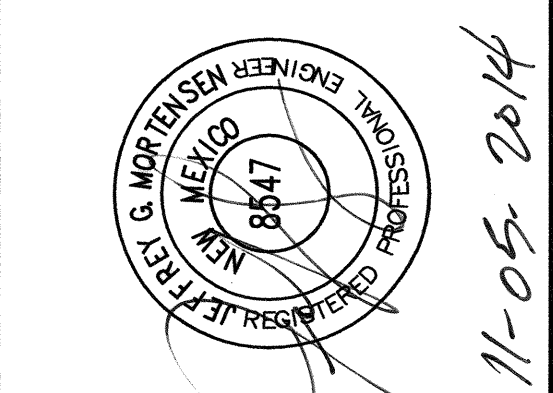
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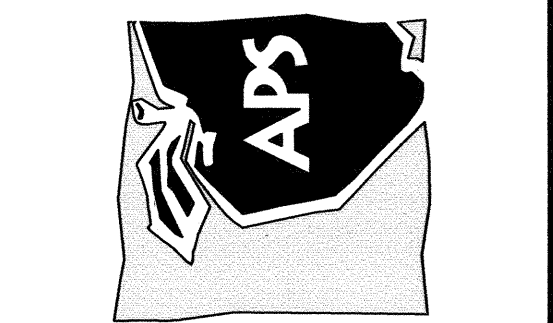


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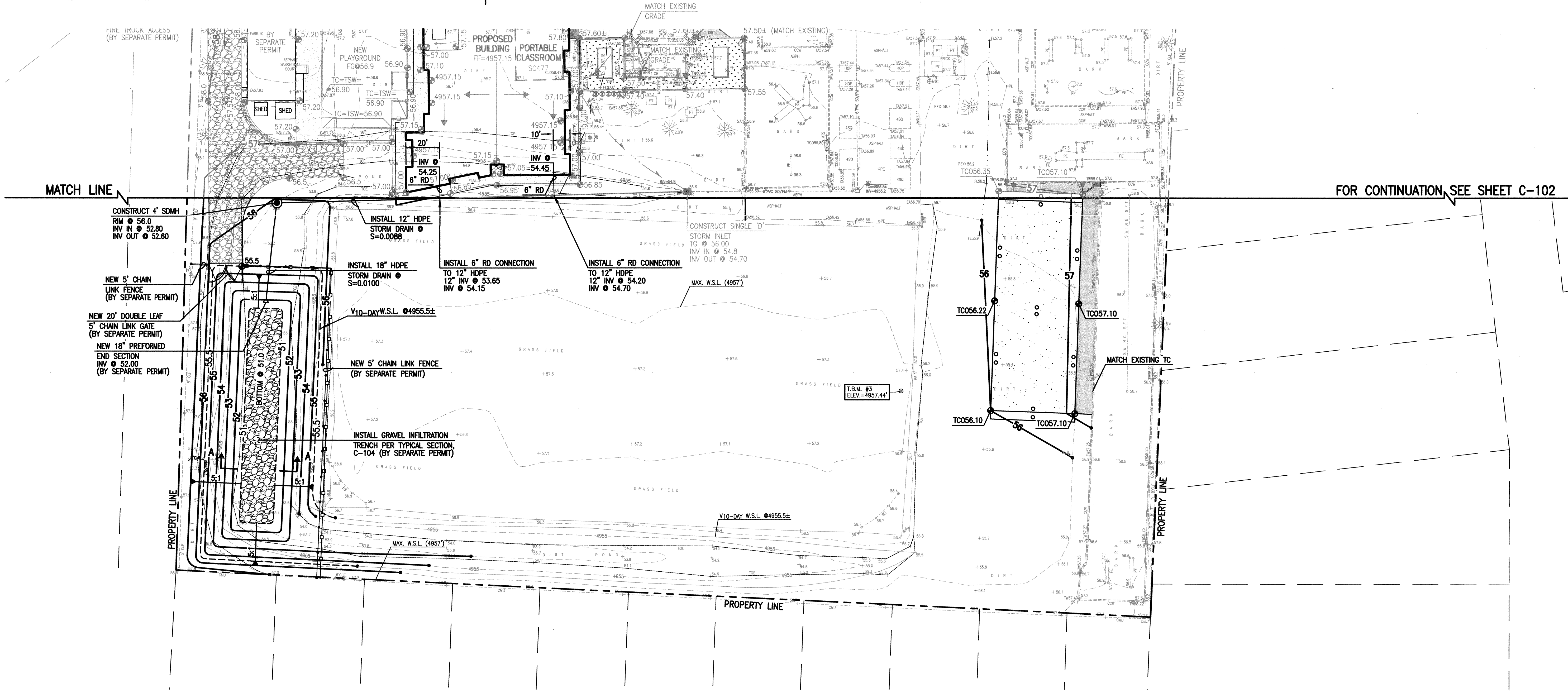


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GRADING PLAN SOUTH

C-103

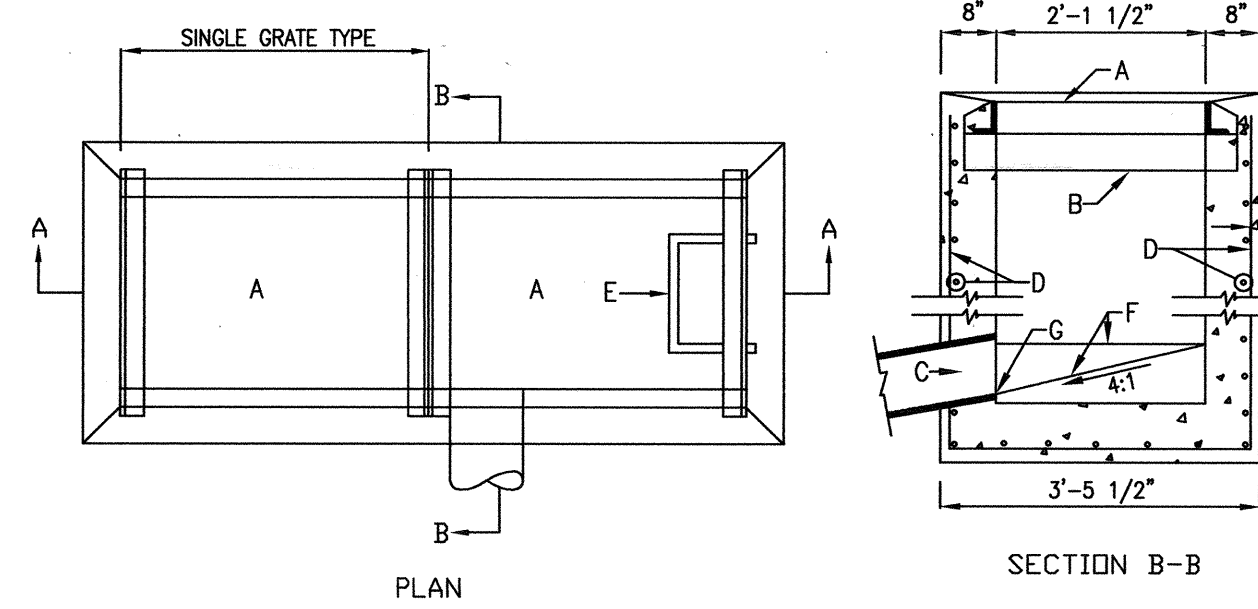
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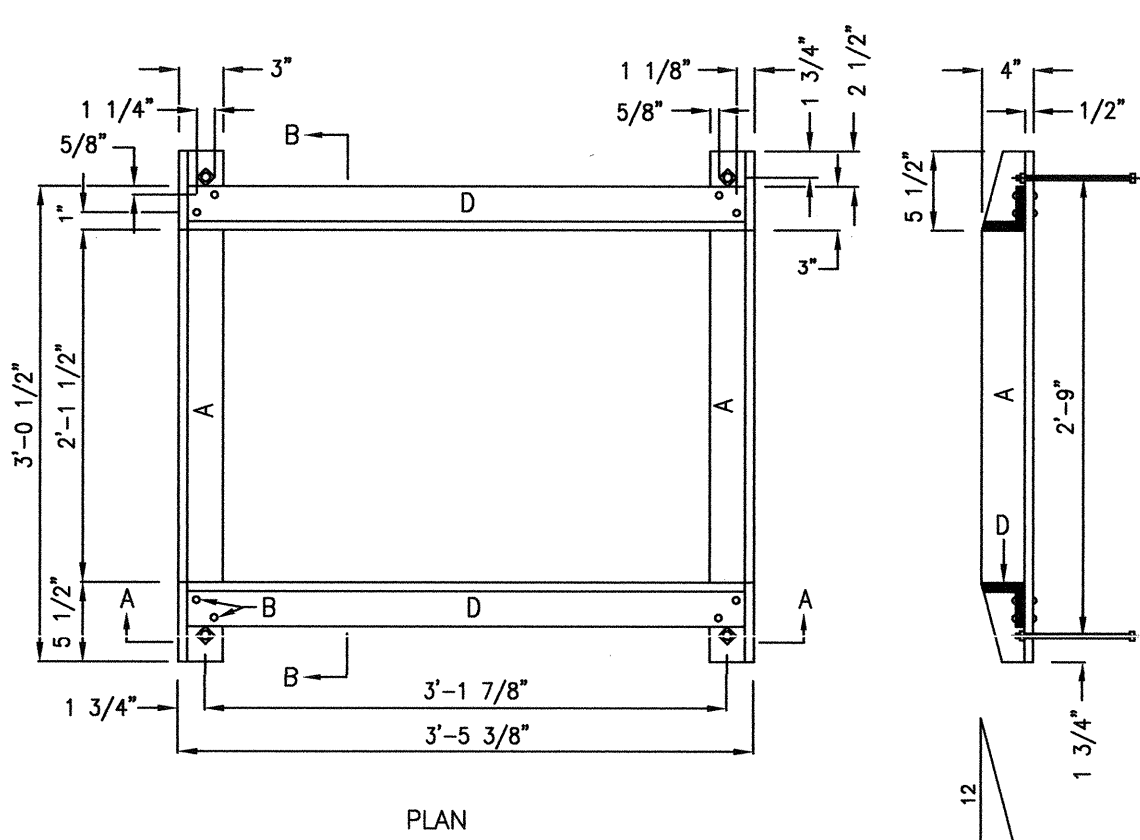
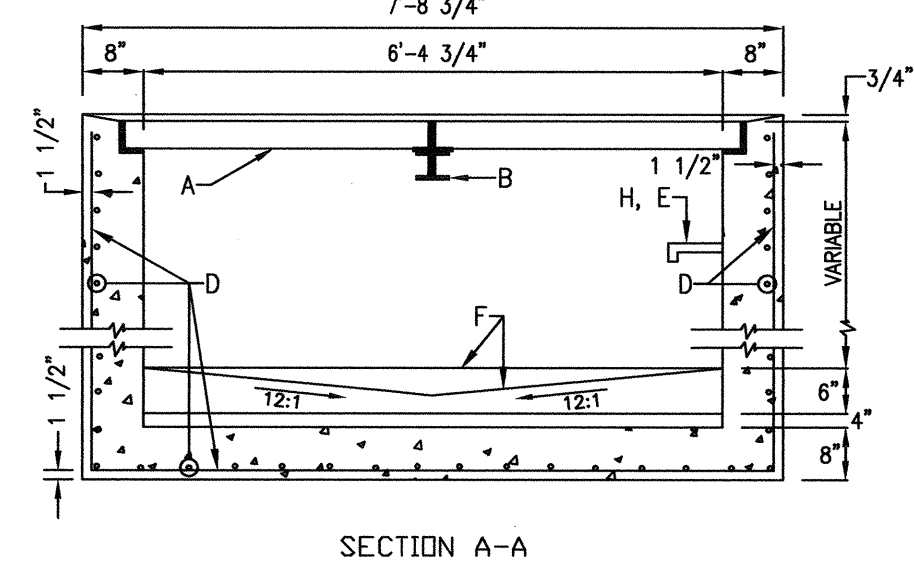
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File Name: 130611-C-103.DWG Plot Time: 10:42 am



- GENERAL NOTES:**
- FOR SINGLE GRATE TYPE STORM INLET DELETE CENTER SUPPORT AND MOVE ONE END WALL TO FORM NEW SINGLE GRATE INLET.
 - STORM INLET GUTTER TRANSITION NOT REQUIRED.
 - OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
 - FOR FRAME & GRATING, SEE DWGS. 2216 & 2220.
 - CENTER SUPPORT ASSEMBLY NOT REQUIRED.

- CONSTRUCTION NOTES:**
- FRAME & GRATE
 - CENTER SUPPORT ASSEMBLY. (NOT REQUIRED).
 - CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
 - NO. 4 BARS AT 6" O.C. EACH WAY.
 - STEPS NOT REQUIRED.
 - CONCRETE FILL 3000 PSI.
 - INVERT ELEVATION PER DESIGN.

**DRAINAGE
STORM INLET DOUBLE "D"**
DWG. 2206



- GENERAL NOTES:**
- ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING AND DRILLING SHALL BE DONE PRIOR TO PAINTING. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
 - ALL PARTS SHALL BE OF STRUCTURAL STEEL, GRADE 36.
 - AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING AND FRAME SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
 - FRAME MAY BE WELDED OR RIVETED.

- CONSTRUCTION NOTES:**
- 4" X 3" X 1/2" X 3'-1/2" L
 - 2 - 3/8" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO. 5.
 - 4 - 1/2" X 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER FOR ANCHORING FRAME INTO CONCRETE WALL.
 - 3 - 1/2" X 3" X 3/8" X 3'-4 - 3/8" L

**DRAINAGE
STORM INLET FRAME**
DWG. 2216

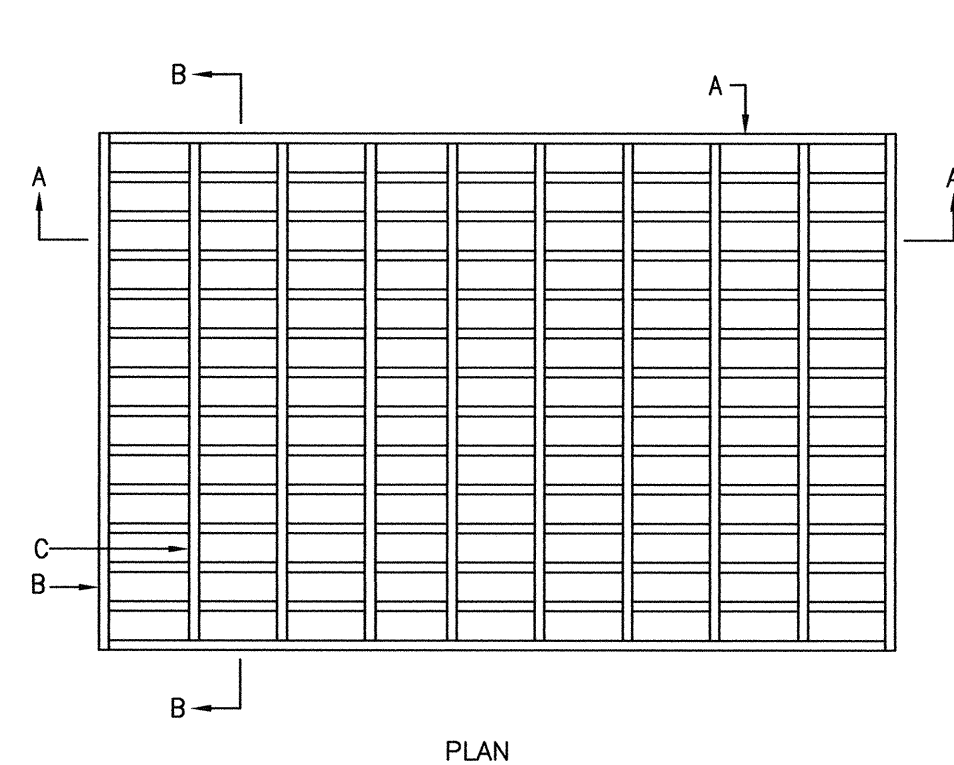
SECTION A-A

SECTION B-B

- GENERAL NOTES:**
- ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
 - THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS. 1/4" FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
 - AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS OF ALUMINUM PAINT (AASHTO M 69).
 - TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
 - GRIND WELDS FLUSH WITH BEARING BARS.
 - WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE. OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

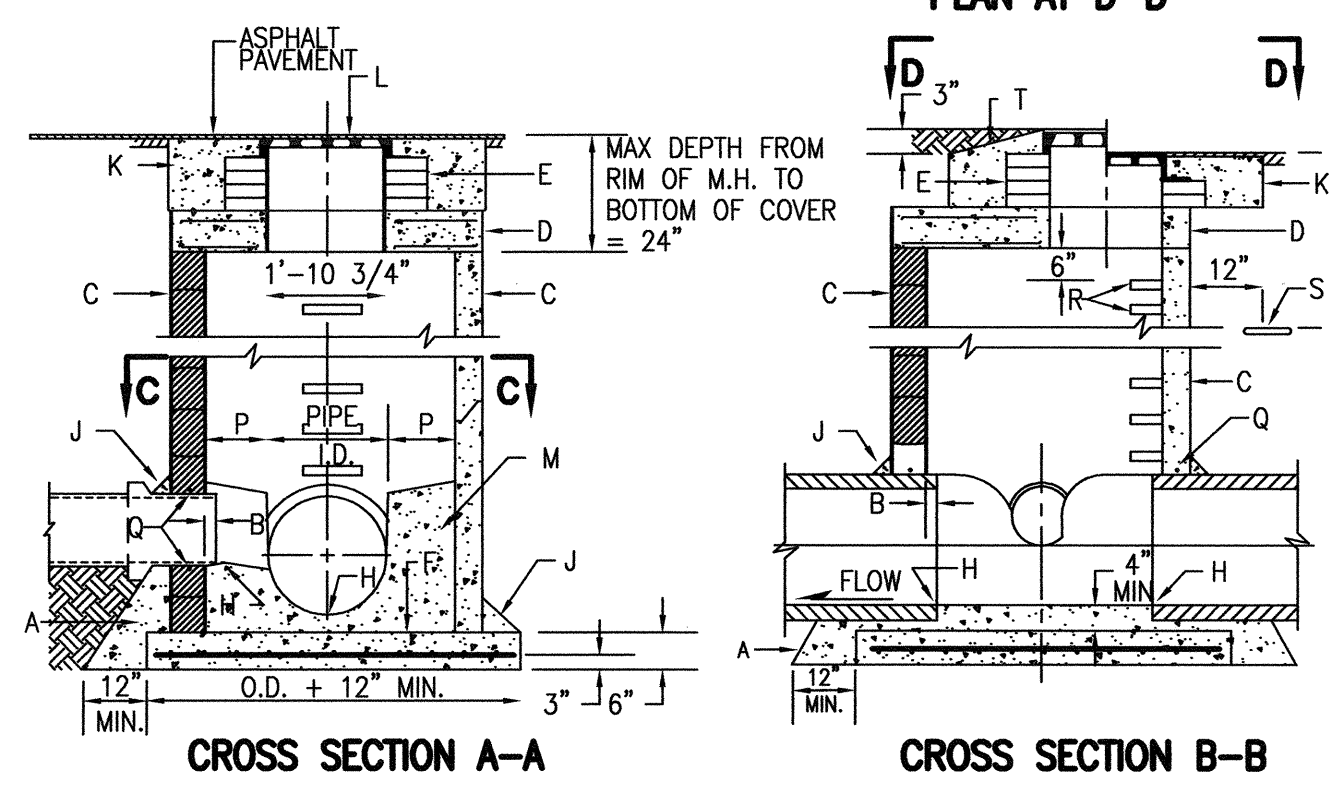
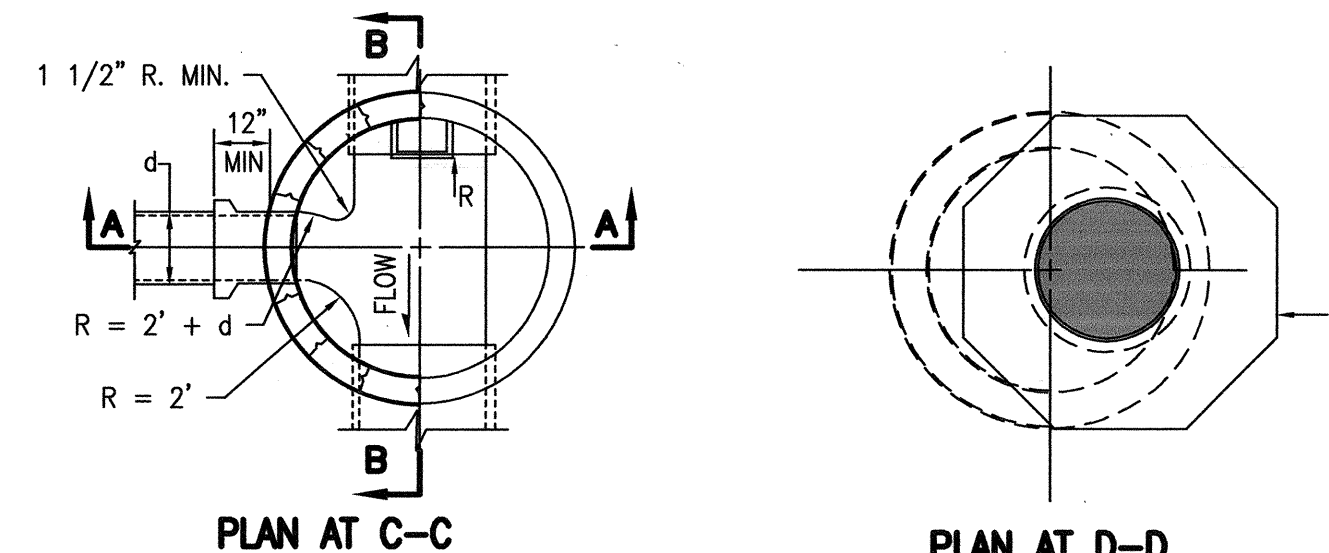
- CONSTRUCTION NOTES:**
- BEARING BARS, (13) 1/2" X 3 1/2" X 39"
 - END BARS (2) 1/2" X 3" X 25"
 - CROSS BARS, (7) 1/2" DIA. X 24"

**DRAINAGE
STORM INLET**
DWG. 2220



SECTION A-A

SECTION B-B



- GENERAL NOTES:**
- USE TYPE "C" MANHOLE FOR DEPTHS OF LESS THAN 6' MEASURED FROM INVERT TO RIM.
 - CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" MANHOLE IN LIEU OF TYPE "E" MANHOLE FOR DEPTHS OF 6' OR MORE.
 - DESIGN APPLIES TO 4' TO 6' I.D. MANHOLES.
 - MANHOLE GREATER THAN 18" IN DEPTH SHALL ONLY BE CONSTRUCTED PRECAST CONCRETE SECTIONS.
 - USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PENETRATIONS.
 - COMPACT ALL BACKFILL AROUND MANHOLE TO 95%.
 - POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

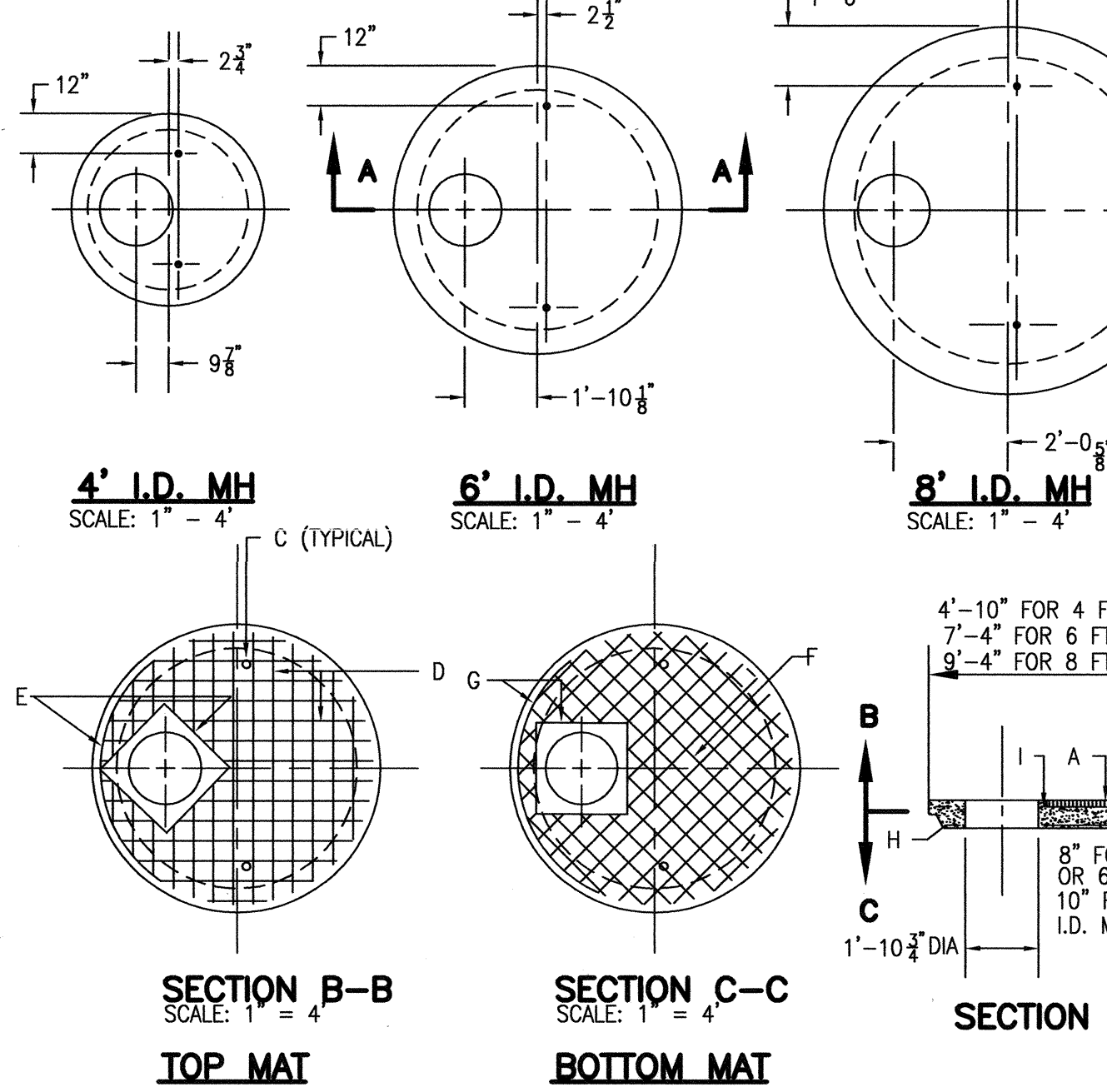
- CONSTRUCTION NOTES:**
- CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF MANHOLE TO BELL OF FIRST JOINT AND SHALL CRADLE PIPE TO SPRING LINE NOT APPLICABLE FLEXIBLE PIPE.
 - PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
 - MANHOLE MAY BE CONSTRUCTED OF POURED CONCRETE OR PRECAST REINFORCED CONCRETE (5" MIN. WALL THICKNESS FOR 4' DIA., 7" MIN. WALL THICKNESS FOR 6' DIA.).
 - PRECAST CONCRETE COVER, SEE DWG. 2107.
 - USE MAX. 4 CORNERS OR 45 DEGREE ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF MANHOLE FRAME TO PAVEMENT GRADE PLASTER INSIDE WITH 1/2" MORTAR.
 - INVERT ELEVATION OF STUB OR LATERAL, AS SHOWN ON PLANS.
 - 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
 - USE A 5' X 5' X 6" THICK OCTAGONAL CONCRETE PAD IN ALL AREAS.
 - FRAME AND COVER, SEE DWG. 2110.
 - CONCRETE, SEE MNMFA SPEC. SECTION 101.
 - SLOPE 1" PER FT. FROM PIPE CROWN.
 - SHelf TO BE 9" WIDE MIN.
 - APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
 - STEPS TO BE INSTALLED AS PER MNMFA SPEC. SECTION 920.
 - END (IN UNPAVED AREAS).
 - IN UNPAVED AREAS SET FRAME TO GRADE AND SLOPE OF PAD.

**STORM
MANHOLE TYPE "C"**
DWG. 2101

- GENERAL NOTES:**
- ALL MANHOLES 20' DEEP OR DEEPER WILL REQUIRE AN INTERMEDIATE LANDING IN THE MANHOLE BARREL. TYPE "C" MANHOLE COVERS SHALL BE USED AS INTERMEDIATE LANDINGS.
 - INTERMEDIATE LANDINGS SHALL BE LOCATED AT THE MID POINT ± OR - 2 FEET OF THE HEIGHT OF THE MANHOLE. AT NO TIME SHALL AN INTERMEDIATE LANDING OR A SIZE ADJUSTMENT TOP BE INSTALLED CLOSER THAN 8' UP FROM THE INVERT OF THE MANHOLE.

- CONSTRUCTION NOTES:**
- PRECAST REINFORCED CONCRETE MANHOLE COVER.
 - ALL BARS TO HAVE 1-1/2" MIN. COVER.
 - 1" PIPE SLEEVE VERTICALLY THROUGH COVER.
 - TOP MAT NO. 4 BARS 6" O.C. EA. WAY FOR 4, 6, AND 8 FT. I.D. MANHOLES.
 - NO. 4 BARS.
 - BOTTOM MAT NO. 4 BARS 6" O.C. EA. WAY FOR 4 AND 6 FT. I.D. MANHOLES, NO. 8 BARS 8" O.C. EA. WAY FOR 8 FT. I.D. MANHOLES.
 - NO. 4 BARS FOR 4 AND 6 FT. I.D. MANHOLES.
 - WHEN PRECAST MANHOLE SECTIONS ARE USED, COVER SHALL BE MODIFIED TO SHAPE OF APPROPRIATE SIZE I AND G JOINT.
 - CONCRETE, SEE SECTION 101, MNMFA.

**STORM
CONC. MH COVER TYPE "C"**
DWG. 2107



SECTION B-B
SCALE: 1" = 4"

SECTION C-C
SCALE: 1" = 4"

SECTION A-A
SCALE: 1" = 4"

4" I.D. MH
SCALE: 1" = 4"

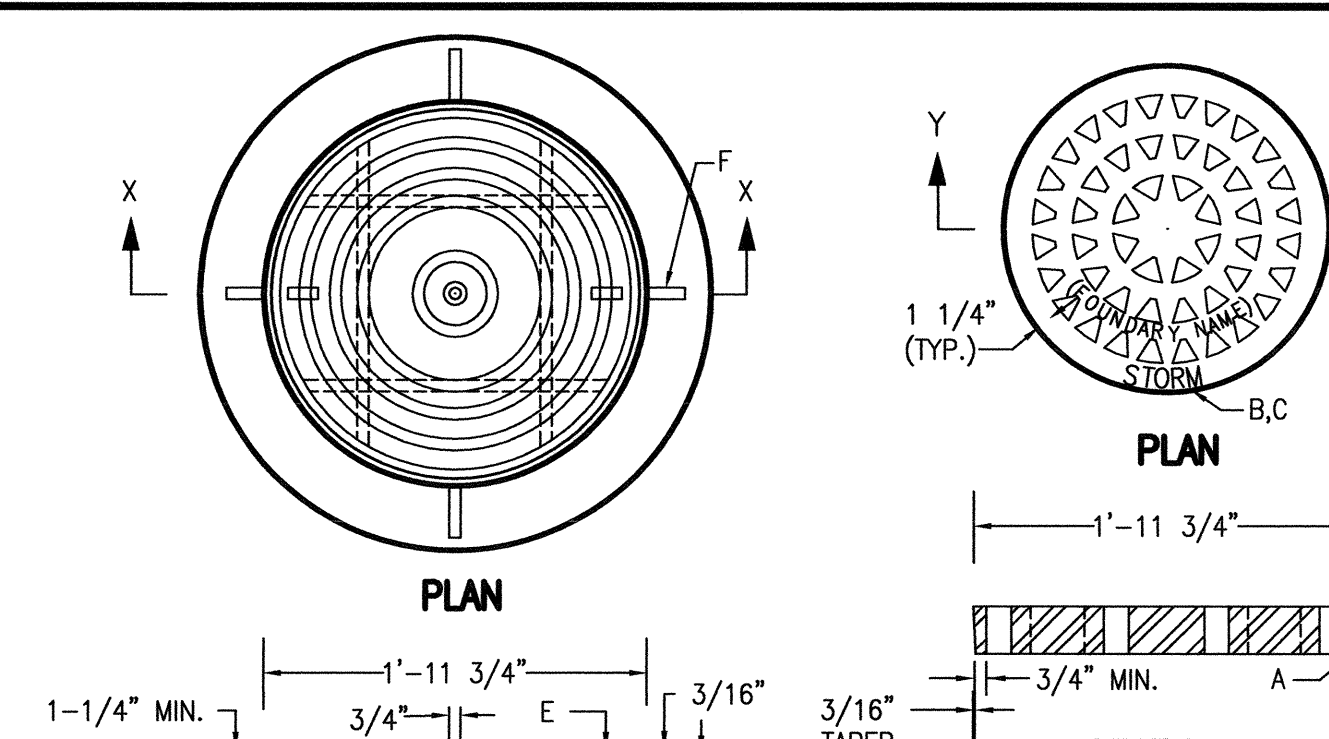
6" I.D. MH
SCALE: 1" = 4"

8" I.D. MH
SCALE: 1" = 4"

TOP MAT

BOTTOM MAT

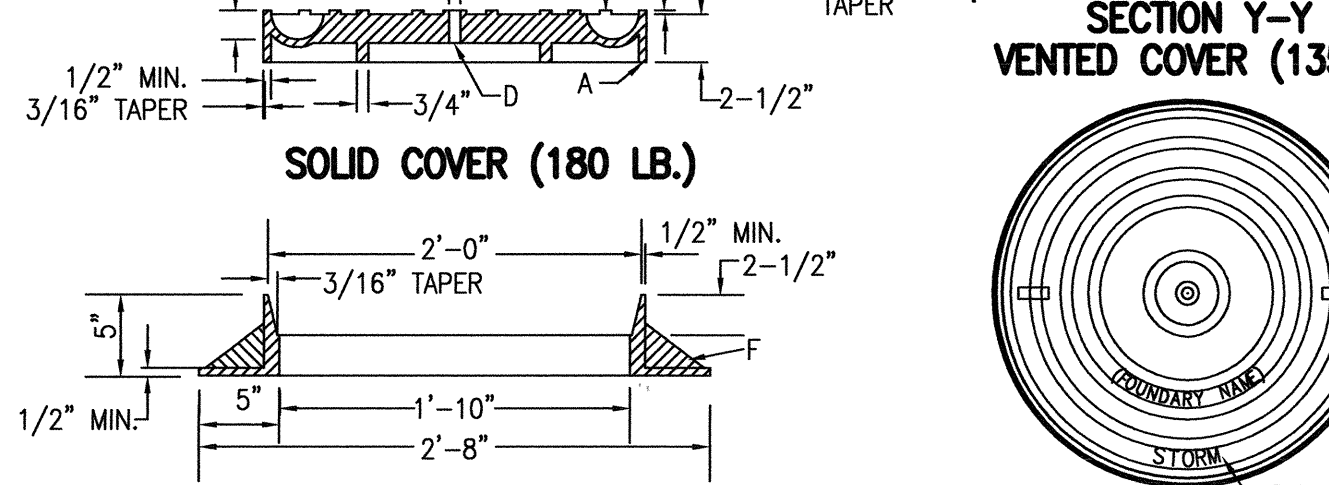
REVISIONS
11-14-91



- GENERAL NOTES:**
- STANDARD CAST IRON M.H. FRAME AND COVER WEIGHTS: COVER = 180 LBS., FRAME = 145 LBS., TOTAL = 325 LBS. (TOLERANCE = ±5%)
 - REFERENCE SPEC. SECTION 130.

- CONSTRUCTION NOTES:**
- MACHINED OR GROUND BEARING SURFACES.
 - "SEWER", "WATER", OR "STORM", CAST ON COVER TO IDENTIFY SANITARY SEWER, WATER OR STORM DRAINAGE SYSTEMS RESPECTIVELY.
 - LETTER SIZE TO BE 1" MIN. IN HEIGHT, TYPICAL.
 - VENT HOLE REQUIRED.
 - MONOLITHIC CAST IRON OR STEEL ROD INSERTS AT MANUFACTURER'S OPTION. IF INSERT IS PROVIDED IT MUST HAVE 3/16" MIN. COVER AND 3/4" END EMBEDMENT IN CASTING.
 - GUSSETS OPTIONAL IF REQUIRED BY MANUFACTURER.

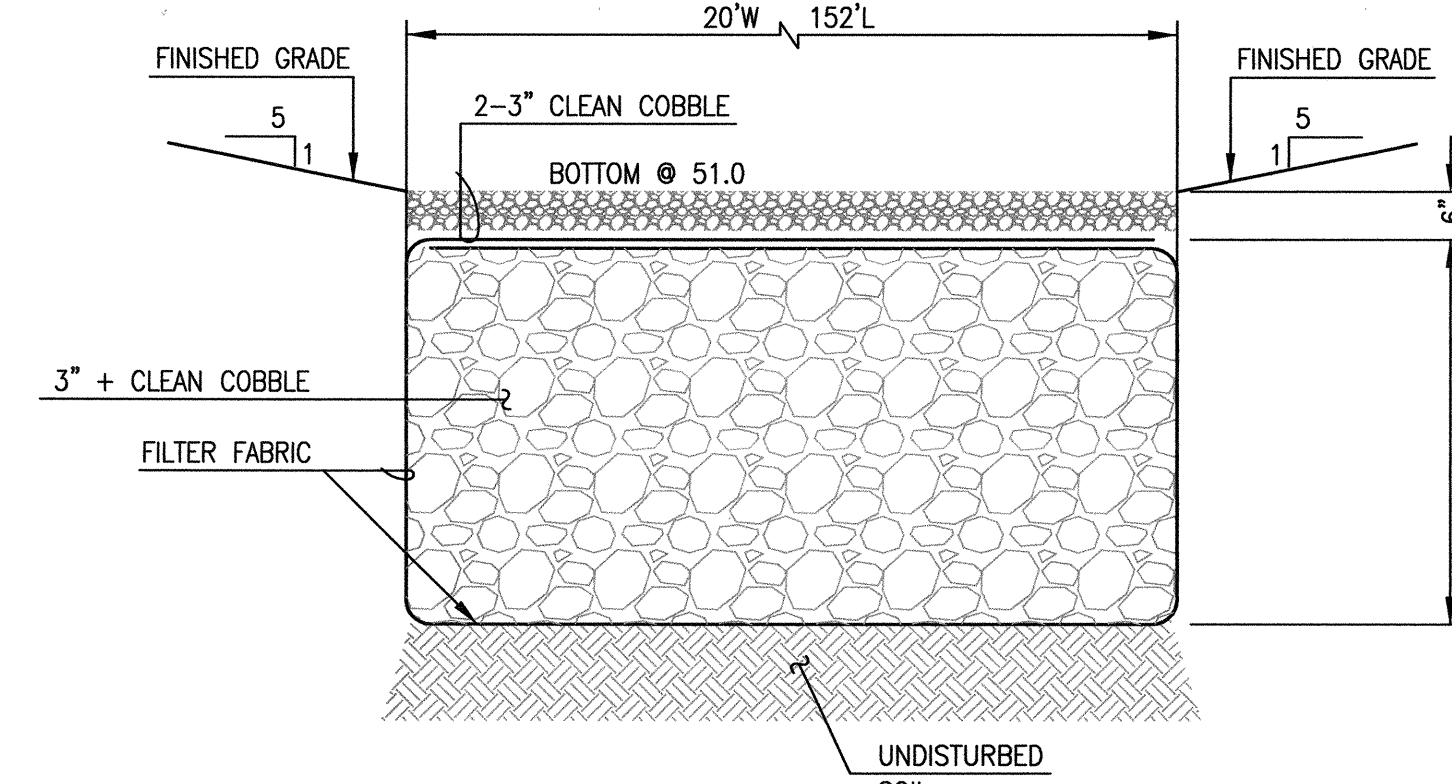
**MANHOLE FRAME AND
COVERS**
DWG. 2110



SECTION X-X

SECTION Y-Y
VENTED COVER (135 LB.)

REVISIONS



GRAVEL INFILTRATION TRENCH (SECTION A-A)
SCALE: 1" = 2'-0"
(BY SEPARATE PERMIT; N.I.C.)

File Path: P:\DATA\2013\0611\ENVS\Plot Date: 10-31-2014
File Name: 130611_C-104.DWG Plot Time: 12:07 pm

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Professional Engineer Seal: State of New Mexico, No. 8547, expires 11-05-2014

**REGINALD CHAVEZ
ELEMENTARY SCHOOL
2700 Mountain Road NW
Albuquerque, NM 87104**

APS Logo

MARK	DATE	DESCRIPTION

MANAGEMENT BLOCK

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**DRAINAGE
SECTIONS
AND
DETAILS**

C-104